



**SOMERSET** MIDDLE SCHOOL  
Preliminary Design Report  
December 20, 2019

**Ai3 Architects, LLC**  
526 Boston Post Road  
Wayland, MA 01778



**Somerset Public School District**  
Jeffrey Schoonover, Superintendent  
580 Whetstone Hill Road  
Somerset, MA 02726



**SMS**  
**SOMERSET** MIDDLE SCHOOL

**SOMERSET** MIDDLE SCHOOL  
Preliminary Design Report



Pride & Respect

# Acknowledgements

## ***School Committee***

Andrew Crook	Chair
Christopher Godet	Vice Chair
Victor Machado, Jr.	
Melissa Terra	
Michael McDonald	

## ***Board of Selectmen***

David Berube	Chair
Holly McNamara	
Steven Moniz	

## ***School Building Committee***

Victor Machado, Jr	Chair
Jeffrey Schoonover	Vice Chair
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Richard Brown	
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Dr. Pauline Camara	Somerset Middle School Principal
Ronald Tarro	Director of Business & Finance
Elizabeth Haskell	Director of Curriculum & Assessment
Megan Ashton	Director of Special Education
Stephen Levesque	Director of Technology
Carlos Campos	Director of Buildings & Grounds

**Report Prepared for**  
Somerset School Department  
580 Whetstone Hill Road  
Somerset, MA 02726  
December 20, 2019



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# Introduction

## Project Summary

### Somerset History

Somerset was first settled in 1677 on the Shawomet lands, and was officially incorporated in 1790. It was named for Somerset Square in Boston, which was in turn named for the county of Somerset in England. It was once a vital shipping point, and after the War of 1812 it was one of America's chief distribution points. In 1872 it became the site of a major coal port, and in the early 20th Century a large cannery existed in the town. However, as neighboring Fall River's industry grew, it absorbed much of Somerset's, and the town took on more of a suburban character. In fact, the town's population grew during the Great Depression, as many people from Fall River and other localities moved to the suburb.

The Town of Somerset occupies a total area of 12.0 square miles - 8.1 square miles is land and 3.9 square miles is water (Taunton River) - and its current population is approximately 18,150 people. Somerset is bordered by Swansea on the west,

Dighton on the north, Fall River on the east (across the Taunton River), and Bristol, Rhode Island, to the south. The border with Bristol is located in the middle of the bay. Cities close to Somerset include Fall River, New Bedford, and Providence, Rhode Island, and the town is one hour's drive south of Boston.



**SOMERSET PALLAS RANGE**  
For Wood or Coal. Be sure and see it. It is beautiful in design and perfect in operation, combining every improvement found in any first-class range, with many others of real merit and superiority. Guarantee: It is made by SOMERSET STOVE FOUNDRY CO., Somerset, Mass., who never made an unsatisfactory one.

**NOTICE THE FOLLOWING.**  
IF CORRECT, WHY IS NOT THIS THE BEST?

**SIZE.** It is the largest and heaviest range on the market.  
**HEIGHT.** With Elevated Shelf, it is 48 in. high, 36 in. deep, 24 in. wide. Best if you can. This alone should settle its superiority.  
**DOOR DOOR.** In oven door. A new feature of real value, which is admitted, as nothing can be examined without opening the oven door. No other range has it.  
**DOUBLE OVEN TOP.** This range has two oven tops, one for coal, one for wood. The front is covered with iron, the back with brick, and being lighter, it is not thus preventing it from being used as a range.  
**LION CENTER.** In cut this preventing it from being used as a range.  
**BROILER DOOR.** One to be appreciated. Large and heavy, it is made of iron, and is designed to protect the fire with either wood or coal with out removal of cooking materials.  
**OVEN VENTILATOR.** This is an excellent feature, which is seldom seen in any other range. It is made of iron and carries steam direct to back door.  
**CLEANING FLUER.** Invention in operation to open, shut, or adjust. Having five supports on each side of range, the action is like dipping an ash-tray or oil-can into a tub. It is designed to clean the STEEL SACKLE EDGES in all, far superior to any other.  
**SINKED TRENCHES.** of the finest selection, with Alaska door knobs secured by patent pins, which are never lost.  
**PEDAL DOOR ATTACHMENT.** nicely attached and never removed on fire-opening the oven door with lock.



**OTHER FEATURES:** with everything possible and possible. Also iron frame and OSCILLATING SHELF supported by four THERMO-VICTOR (1) and cast-iron and with CRACK DAMPER (2) to prevent consumption of fuel. SINGLES OR BEER-ING COVERS in each oven.  
**TOWEL ROD.** Heavy substantial and nickel-plated.  
**FIRE BOX.** In large and deep, causing perfect operation of range.  
**GRATES.** This common plate of triangular shape, with cast-iron, and is made with out chinking or chinking, and is made with out chinking, which is not of inferior quality.  
**FIRE END DOOR.** No construction as to prevent fire from getting into the park building. The TOWEL SHELF is made of cast-iron, which is the best.  
**HEAVY STANDS.** Latest improved pattern.

ALSO MAKERS OF THE  
**Famous Somerset Grand, Jewel, and Gem Parlor Stoves.**

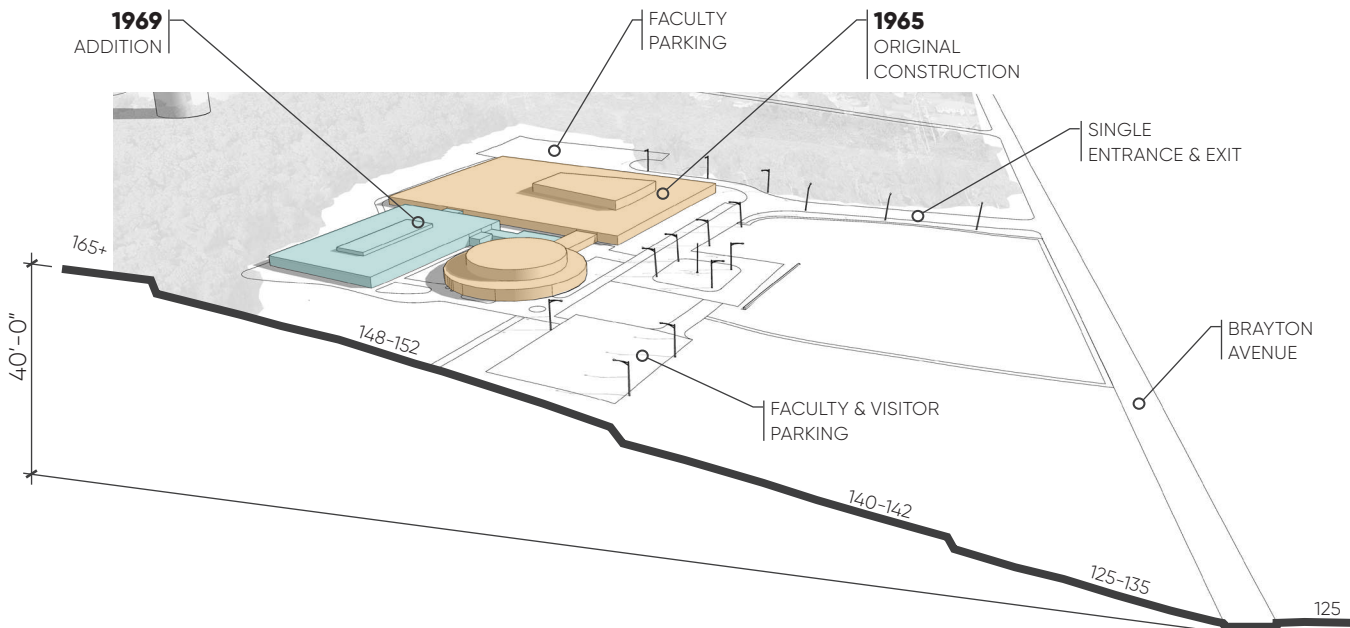
**THE SOMERSET STOVE FOUNDRY CO.**

The existing Somerset Middle School, located on 1141 Brayton Avenue, was originally constructed in 1960, with an addition constructed in 1969. The school is centrally located within the Town of Somerset. The school is located in a densely populated residential neighborhood on a 25.21-Acre site and provides approximately 124,900 gross square feet of building space.

The school is accessible via one two-way driveway from Brayton Avenue and has frontage on Read Street. The site is furnished with two paved parking areas, paved driveways, pedestrian access from Brayton Avenue and Read Street, multiple grassed athletic fields, and landscaping surrounding the building incorporating concrete sidewalk access to Brayton and Read Streets.

The school site is bounded by the Montaup Electric Company power lines and Jeffrey Street to the north, Brayton Avenue to the east, Correia & Sons Market, South Elementary School, and Read Street to the south, and Hot and Cold Lane to the

The existing 1965 and 1969 building structure is constructed of lightweight steel, concrete masonry unit (CMU) walls, and brick masonry exterior veneer, without insulation. Other than the necessary alterations to address immediate building facility deficiencies due to evolving building deterioration, heating and cooling issues, sub-dividing open-classroom areas, etc., the building has not been substantially renovated, altered, expanded, or improved since its original construction. A brick repair project occurred in 1997. One of the original four boilers was replaced in 1999. Classroom HVAC system includes outdated, inefficient, and noisy unit ventilators located along the exterior wall, thereby creating acoustical and temperature fluctuation issues. The electrical service is undersized, original to the building, and in poor condition. The emergency power system is also original to the building and does not meet current codes. Classroom lighting is outdated and inefficient by today's standards. Significant amounts of asbestos-containing building materials remain within the building, although appropriate steps have been taken to



west. The other nearby uses are characterized by single-family housing and some religious institutions.

The topography of the site generally pitches gradually downgradient from the west to the east. The highest elevations on site appear to be at the west portion of the property at an approximate elevation of 163ft. The lowest elevation appears to be along the eastern property line along Brayton Avenue at elevation 123ft. There are a few moderately steep slopes throughout the site. The most significant grade change occurs to the east of the core academic building, adjacent to the wooded area of the site. There are also slopes within the site that define playfield areas and slopes between the original 1965 building and 1969 addition, requiring interior ramps and stairs (non-compliant).

contain any potential exposure. Many non-traditional spaces such as storage spaces and basement areas are utilized for maintenance staff and instructional spaces. Adequate meeting space for faculty, staff, and parents is non-existent.

Perhaps most importantly, the building is NOT designed and organized to support a modern 21st Century comprehensive middle school educational program, as further defined and detailed herein.

Although none of these features prohibit the renovation of the building, they do require a careful analysis to determine if any proposed re-use of the existing building is physically viable,

financially feasible, and/or educationally appropriate.

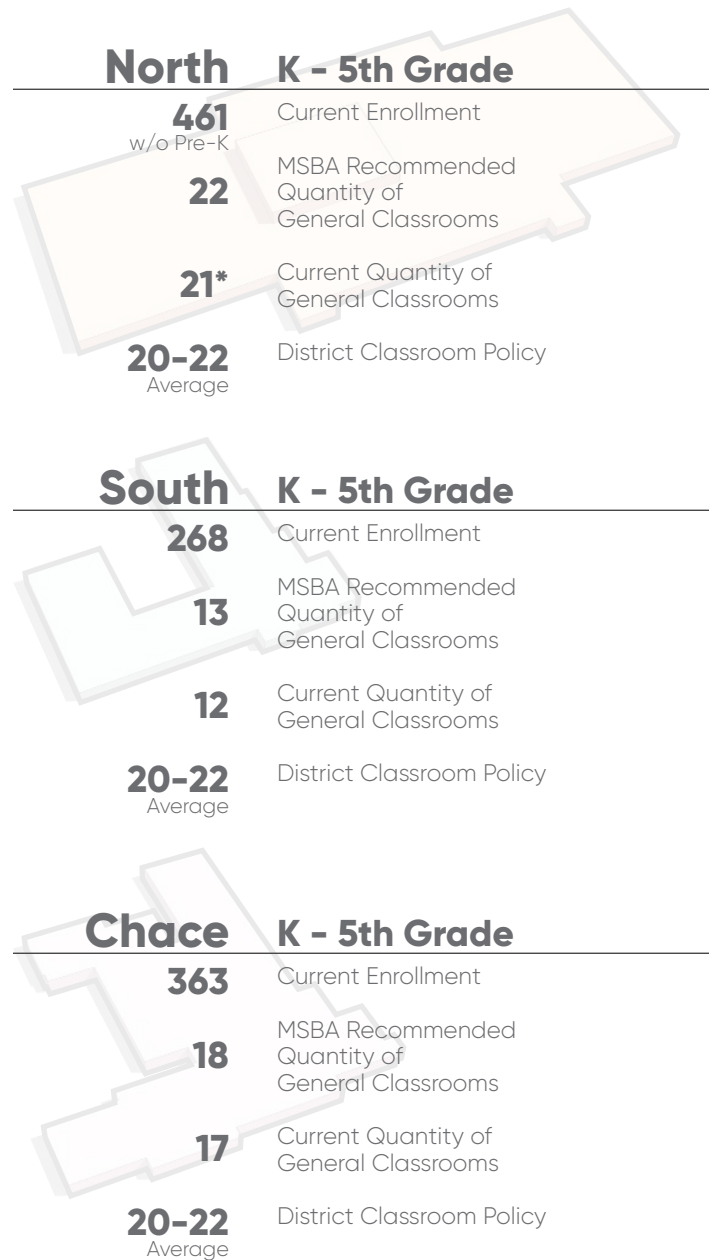
**6-8 vs. 5-8 Grade Configuration**

Somerset Middle School was originally designed as a middle school for students in grades 5-8. It operated that way for 25 years until 1989, when two aging elementary schools were closed, one of the two middle schools became an elementary school, and fifth grade students were transitioned back to elementary. When this occurred, five elementary schools were ultimately reduced to four. In 2014, the oldest elementary school was closed, resulting in the further consolidation of four elementary schools to three. Since then, the elementary schools have been at or near their enrollment capacities, providing no room for growth and expansion. The MSBA and the Town of Somerset have agreed to study a grade 6-8 middle school configuration with an enrollment of 590 students and a grade 5-8 middle school configuration with an enrollment of 770 students.

The professional team and district administration conducted an initial capacity review of the existing three elementary school buildings (Chace, South, and North). The analysis considered the current student enrollment, and quantity of core classrooms and specialized spaces as compared with the MSBA recommended elementary school space guidelines. The preliminary conclusion is that all three schools are currently either at capacity or overcrowded and do not provide the District with the appropriate space for specialized programs, testing, and evaluation spaces – with grade five included in the elementary schools.

During the next phase of the middle school feasibility study process, the District will continue to explore the question of grade configuration and will conduct additional research, investigation, and vetted by the Town and the School Department. The Somerset K-8 School Committee has authorized the Superintendent of Schools to form a grade configuration advisory sub-committee to further investigate both the 6-8 and 5-8 grade configuration at the middle school level. A broad range of research and investigation will be completed including, for example, activities such as facility tours, staff questionnaires, educational best practices, adolescent developmental research, future enrollments, and facility capacity, among others. This research and investigation will be shared and debated among all interested parties. Multiple public presentations and discussions will take place, including School Building Committee meetings, community informational meetings, and School Committee meetings. The School Committee will ultimately take a vote during the next feasibility study phase in support of either a 6-8 grade configuration or a 5-8 grade configuration. The

Town and the School Department’s primary goal is to identify a grade configuration that will provide expanded educational opportunities to the greatest number of students while simultaneously resolving multiple other challenges across the District.



**Statement of Interest Summary (SOI)**

On March 27, 2017, on behalf of the School Committee, former Director of Business and Finance, Lindsey Albernaz, submitted a Statement of Interest (SOI) to the Massachusetts School Building Authority (MSBA) for the Somerset Middle School. Please refer to Appendix A for a complete copy of the Statement of Interest. At the October 31, 2017 Board of Directors meeting, the MSBA Board voted to issue an invitation to Somerset to

enter into the Eligibility Period. Subsequently, at the October 31, 2018 Board of Directors meeting, the MSBA Board voted to issue an invitation to Somerset to conduct a Feasibility Study for Somerset Middle School and to identify and study possible solutions and, through a collaborative process with the MSBA, to reach a mutually-agreed-upon solution. Please refer to Appendix B for the Feasibility Study agreement between the MSBA and the Town of Somerset.

The SOI identified the following priorities which the Town of Somerset would like to address in the Feasibility Study:

5. Replacement, renovation, or modernization of school facility systems such as roof, windows, boilers, heating and ventilation systems, to increase energy conservation and decrease energy related costs in a school facility.

The SOI identifies crucial Programs and Operations that cannot be implemented due to the facility constraints and issues. For example:

1. Inability to regulate temperature fluctuations due to inefficient window systems and older ventilation system results in lower student and teacher attendance due to lower air quality throughout the building during parts of the school year.
2. The electrical system has hindered the ability to maximize the use of technology within the classroom setting. Many extension cords are required to run power between classrooms, and the outlets in the floor of the 1969 wing (6th grade area) have a history of sparking. The electrical conduit pipes running under the boiler room are rotting, which causes shortages in electricity and power failures throughout the building.
3. Woodworking shop for the industrial arts courses are not utilized to capacity due to lighting and soundproofing issues.
4. Lecture hall is not utilized due to lighting and soundproofing issues.
5. Areas are not ADA accessible and, given its 1960s construction, does not comply with current guidelines.
6. The school is unable to add special education programs due to the inability to expand or modify existing areas. The DESE will not certify needed programs due to these deficiencies.

Science labs are very limited. The science labs are original, without renovation to any of the existing finishes (ceiling, wall, floor, etc.) and building services (gas, water, electrical). Although some of the science classrooms have been minimally

retrofitted with technology (although currently outdated) since the original construction, the lack of coverage, proper wiring, internet capacity, and current technology (needed to provide coursework in the STEM and engineering emerging areas) handicaps potential programming for students. Future science labs should be designed to meet the guidelines of mandated state requirements and include the appropriate amenities.

The building's closed-circuit television system (CCTV) is limited, outdated, and has been marginally operating with the majority of the cameras being six to eight years old. The intrusion detection system is inoperative. In 2018 the District installed a new video entry system and secure glass entry vestibule with multiple layers of screening and badging prior to a visitor's entry into the school, thereby enhancing the security of the building and environment for the school community.

The SOI identified the building's core academic spaces (i.e. general educational classrooms) as being organized by department (ELA, Math, Science, Social Studies, etc.). The classrooms vary considerably in size, averaging from between 650 to 1,100 square feet. The 1969 building design contained "open classroom" spaces in a wing configuration, which have since been sub-divided into individual classroom spaces with the use of storage cabinets and furniture. The current organization creates various "spaces" that are not conducive to student learning. Future classrooms will require interactive white boards, sound reinforcement, and wireless access for teacher and student devices.

The media center contains traditional open study, reading, and library spaces. The media space has significant temperature fluctuation and humidity issues, despite the District's several attempts to remediate the condition.

The SOI very clearly details the numerous building issues and limitations that the District has been challenged with for many years. These deficiencies and limitations have had significantly negative impacts on the educational environment.

The SOI indicates that the Town understands the need to study all possible options for resolving these deficiencies, but also correctly points out that there may be benefits associated with a proposed solution that renovates a portion of the existing middle school building. Please refer to **Appendix A** for the complete copy of the SOI the Town of Somerset Submitted to the MSBA on March 9, 2017.



### ***Town-Wide Economic Master Plan***

In the Fall of 2018, the Town of Somerset and their consultant (VHB) commenced work on a Comprehensive Master Plan for the Town. It is anticipated that the master planning process will conclude in the beginning of 2020. The middle school project design team and Owner's Project Manager met with the middle school project working group, District Administration, and Town Planner to review the status of the master plan and brainstorm how a proposed middle school project could integrate into the master plan's short-term and long-term goals and objectives. As a result of the meetings, the following list was generated:

#### *Land Use and Development*

- Maintain the existing Middle School site Historic Land Use designation as "Urban Open/Institutional/Recreation" and Town-Owned Land for the development and location of the new Middle School project.

#### *Natural, Cultural, and Historic Resources*

- Maintain and improve onsite wooded areas and wetlands, topography, and introduction of native vegetation.
- Green Stormwater Infrastructure: bioswales, rain gardens, and bioretention
- Habitat Creation

#### *Open Space & Recreation*

- Playfields, fitness nodes (Bocce Ball – Shuffleboard)
- Outdoor Learning Classrooms

#### *Community Facility (Middle School Building)*

- Auditorium
- Library Media Center
- Gymnasium / Fitness Center

#### *Transportation & Circulation*

- Vehicular Transportation
  - Improvement of onsite vehicular/bus movement and circulation during drop-off and pick-up, resulting in a residual improvement of traffic flow along Brayton Avenue
- Walking Mobility
  - Continue sidewalks along project side of Brayton Avenue
  - On-site walking and fitness trails and pathways
  - Sidewalk Connections to Read Street

- Bicycle Mobility (Connection to bike paths and bike lanes)
  - East/West: Connection via Read Street to South Coast Bikeway (50-mile bike path connecting Cape Cod – RI)
  - North/South: Connection into Swansea via Brayton Avenue
  - “Off-road” Bike trails via existing utility easement to SBRHS (outside of project boundaries)
  - Bicycle parking on site
- Safe Routes to School Concepts

Sustainability and Climate Change

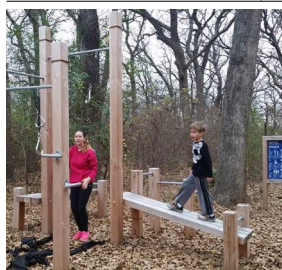
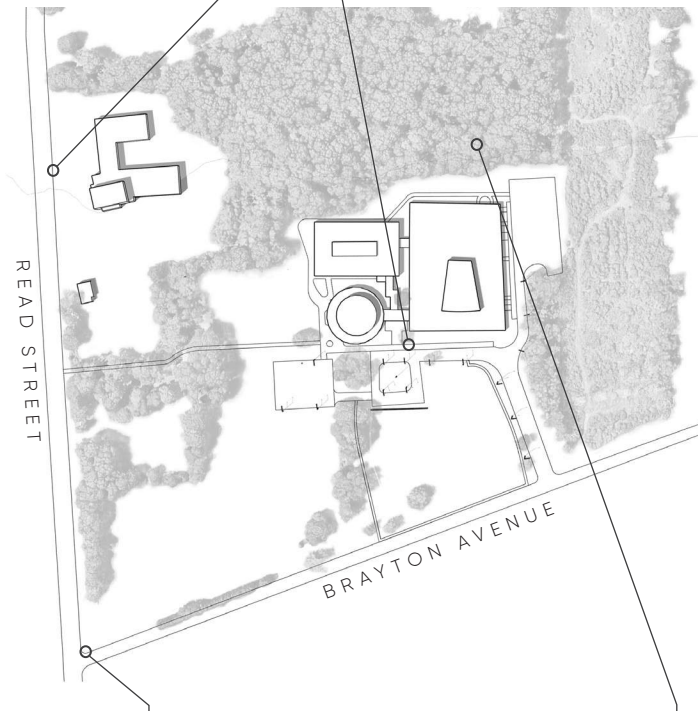
- USGBC Leadership in Energy and Environmental Design (LEEDv4.1) Certification
- On-site Renewable Energy: Photovoltaics
- Utility Company Rebates (NGRID)
- Green Communities Compliance (in anticipation of the Town’s designation as a “Green Community” by DOER)
- Community Gardens
  - Area onsite designated for community and student gardens
- Waste Management & Recycling
  - Compliance with the Town adoption of a mandatory Recycling By-law (Single-stream recycling program)

**Feasibility Study Goals**

The specific goals of this study include a review and investigation of the problems and challenges identified in the SOI, including exploration of the facility deficiencies and the development of the desired educational program. The strategic goals of the Somerset Public Schools and the educational program should be analyzed in conjunction with existing and available resources to determine which options should be further studied as potential long-term solutions for the District.

In order to formulate a plan to address the Town of Somerset’s needs, Ai3 Architects, LLC proceeded with the following process and tasks:

- Document potential opportunities to integrate the middle school project into the Town-wide Economic Master Plan.
- Document detailing existing conditions at the Somerset Middle School building.
- Conduct a series of Educational Visioning sessions which included our educational consultant, David Stephen of New Vista Design.
- Document available capacity versus enrollment at existing elementary school buildings across grade levels pre-kindergarten through grade 5.
- Summarize educational and facility challenges.
- Assist the Owner with the development of an educational program that describes grade and school configuration policies, class size policies, the use of grade level “teams”, school policies, lunch programs, technology instruction policies and programs, creative arts, music and performing arts,





physical education, special education, transportation policies, functional and spatial relationships and adjacencies, security and visual access requirements, all while ensuring that the educational program is fully incorporated into the process.

- Conduct an initial space summary for each option, including both 6-8 and 5-8 grade level configurations to determine the space necessary to deliver the planned educational program.
- Generate options for resolving educational, site, and facility challenges.
- Develop costs for each of the options.
- Evaluate options based on their proposed cost versus their value in resolving District-wide educational and facility deficiencies.

The MSBA Board of Directors invited Somerset to begin a Feasibility Study for the Somerset Middle School on December 19, 2018. The Feasibility Study is one step in the MSBA's grant program process for school building construction and renovation projects. Please refer to **Appendix B** for the complete copy of the Massachusetts School Building Authority Feasibility Study Agreement that outlines the requirements of this phase of the process.

### ***Enrollment Projections***

On September 21, 2018, the Massachusetts School Building Authority issued the Somerset Middle School Design Enrollment Certification Letter to Town Administrator, Richard Brown. The Town of Somerset and the Massachusetts School Building Authority have agreed to review the following student enrollments and grade configurations for the potential project:

- 590 students in grades 6-8 configuration
- 770 students in grades 5-8 configuration

Please refer to **Appendix D** for a signed copy of the Design Enrollment Certification.

### ***Board of Selectmen, School Building Committee, and School Committee***

The Town of Somerset has a Board of Selectmen consisting of three members.

A School Building Committee was established, per the requirements of MSBA, on June 21, 2018. It is a 16-member body with representatives from the Town of Somerset's administration including the Town Manager, the School District, and private citizens with various areas of expertise including, but not limited to: engineering, architecture, interior design, education, and construction.

The School Committee consists of five members.



## Introduction

### Somerset Public Schools

The Somerset Public Schools is a PreK-8 district with approximately 1,800 students in four schools – Chace Elementary School, North Elementary School, South Elementary School, and Somerset Middle School. Somerset-Berkley Regional High School enrolls approximately 1,000 students in grades 9-12. Somerset Public Schools Central Offices are located at North Elementary School.



***Somerset-Berkley Regional High School***

Grades 9-12, 1027 students  
222,826 square feet  
Constructed 2014

***North Elementary School***

Grades PreK-5, 499 students  
137,300 square feet  
Constructed 1973; Renovated 1988

***Somerset Middle School***

Grades 6-8, 651 students  
124,900 square feet  
Constructed 1965; Addition constructed 1969

***South Elementary School***

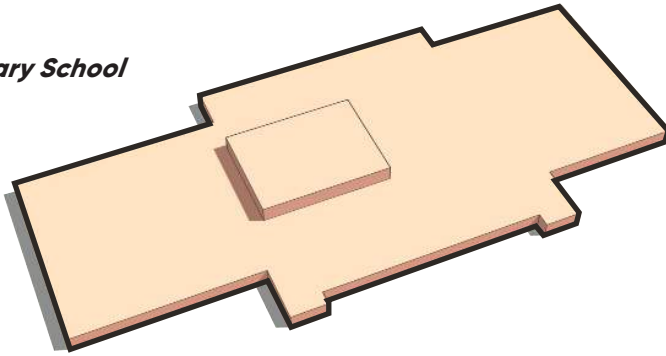
Grades K-5, 268 students  
29,900 square feet  
Constructed 1952; Renovated 1957

***Chace Elementary School***

Grades K-5, 363 students  
53,800 square feet  
Constructed 1961; Renovated 1967

The following are floor plans of the elementary schools that are currently in use in Somerset.

**North Elementary School**



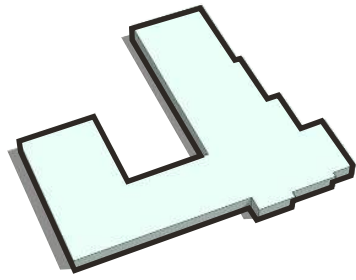
- 4.5 Pre-K Classes
- 2 Kindergarten Classes
- 3 Grade 1 Classes
- 4 Grade 2 Classes
- 4 Grade 3 Classes
- 4 Grade 4 Classes
- 4 Grade 5 Classes

**\*21** Total General Classrooms

**\*11** Interior classrooms **WITHOUT** natural daylighting or views to the outside.



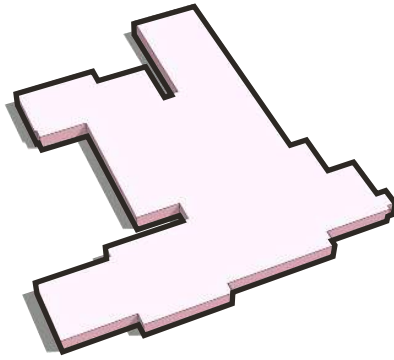
**South Elementary School**



- 2 Kindergarten Classes
  - 2 Grade 1 Classes
  - 2 Grade 2 Classes
  - 2 Grade 3 Classes
  - 2 Grade 4 Classes
  - 2 Grade 5 Classes
- 
- 12 Total General Classrooms



**Chace Elementary School**



- 3 Kindergarten Classes
  - 3 Grade 1 Classes
  - 3 Grade 2 Classes
  - 2 Grade 3 Classes
  - 3 Grade 4 Classes
  - 3 Grade 5 Classes
- 
- 17 Total General Classrooms





## Introduction

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### Capital Budget Statement

**B**ased on early budgeting, the projected cost for the new Somerset Middle School could be on the order of \$85 million (6-8 middle school with 590 Students) and \$100 million (5-8 middle school with 770 students) exclusive of MSBA reimbursement. The Town of Somerset maintains a healthy balance sheet and its current debt load is well within the recommended level. Currently, the Town has a Moody's Investors Service rating of Aa2. Financing for this project will be based upon a successful debt exclusion override. The Town of Somerset is confident that it can acquire bonded financing in excess of \$100 million when it is approved by the citizens of Somerset in the Fall of 2020. The Town is not currently engaged in any other project at this time, but projects that the Town anticipates in the future include water and water pollution improvements in the order of \$100-\$130 million.







## **Introduction**

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# Feasibility Study Budget



**EXHIBIT A**

**FEASIBILITY STUDY BUDGET**

**Town of Somerset  
Somerset Middle School**

The total Budget for the Feasibility Study conducted pursuant to this Agreement, which is attached hereto and incorporated by reference herein, shall be no more than \$800,000 based upon the following estimates:

Owner's Project Manager:	\$150,000
Designer:	\$475,000
Environmental and Site Testing:	\$135,000
Other:	\$40,000



# Introduction

## Project Directory

### TOWN OF SOMERSET

Somerset Town Hall  
110 Wood Street  
Somerset, MA 02725

### TOWN ADMINISTRATION

#### Town of Somerset

Name	Affiliation	Email	Phone
Richard M. Brown	Town Administrator	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>	508-646-2800
Paula Ramos	Assistant to Town Administrator	<a href="mailto:pramos@town.somerset.ma.us">pramos@town.somerset.ma.us</a>	508-646-2800
Joseph R. Bolton	Director of Finance/Town Accountant	<a href="mailto:jbolton@town.somerset.ma.us">jbolton@town.somerset.ma.us</a>	508-646-2820
Nancy B. Fournier	Administrative Secretary to Town Administrator	<a href="mailto:nfournier@town.somerset.ma.us">nfournier@town.somerset.ma.us</a>	508-646-2800
Dolores Berge	Town Clerk	<a href="mailto:dberge@town.somerset.ma.us">dberge@town.somerset.ma.us</a>	508-646-2818
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Pamela Lee	Town Assessor	<a href="mailto:Plee@town.somerset.ma.us">Plee@town.somerset.ma.us</a>	508-646-2823
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Timothy Turner	Board of Health Agent	<a href="mailto:tturner@town.somerset.ma.us">tturner@town.somerset.ma.us</a>	508-646-2804
Chief George McNeil	Police Chief	<a href="mailto:G_mcneil@somersetpd.org">G_mcneil@somersetpd.org</a>	508-679-2138
Brendan Hague	School Resource Officer	<a href="mailto:SRO@somersetschools.org">SRO@somersetschools.org</a>	774-644-4123
Scott Jepson	Fire Chief	<a href="mailto:chiefjepson@aol.com">chiefjepson@aol.com</a>	508-646-2811
Robert Bozikowski	Superintendent of Water and Sewer	<a href="mailto:rbozikowski@gmail.com">rbozikowski@gmail.com</a>	508-679-2731
Christopher Simmons	Superintendent of Highway Department	<a href="mailto:csimmons@town.somerset.ma.us">csimmons@town.somerset.ma.us</a>	508-646-2835

**SCHOOL ADMINISTRATION**

Somerset Public Schools  
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Somerset, MA 02726

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**OWNER'S PROJECT MANAGER****CGA Project Management, LLC**

P.O. Box 3147, Fall River, MA 02722

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## Introduction

### Project Schedule

The Project Schedule provided herein anticipates the MSBA Board of Directors' approval of the Preferred Schematic Report and authorization to proceed into Schematic Design at the June 24, 2020 MSBA Board Meeting, and the MSBA Board of Directors' approval of the Project Scope and Budget at their projected October 28, 2020 MSBA Board Meeting. The annual Town Meeting is planned for the month of November 2020. The ballot vote is planned for the month of December 2020.

Key delivery dates are as follows:

PDP Submission:	<b>December 20, 2019</b>
PSR Submission:	<b>May 6, 2020</b>
Schematic Design Submission:	<b>September 9, 2020</b>

The Project Team, District, and the Town have been working closely to ensure that sufficient time is being taken to review the data and options effectively and sufficiently. Throughout the process, the Project Team will notify the MSBA promptly if additional time is needed for any phase, and the Project Schedule will be modified as necessary.

The Preliminary Project Schedule provided herein indicates the timeframe for the various preliminary phases through Module 5: Funding the Project.



# PROJECT SCHEDULE THROUGH MODULE 5

## Somerset Middle School - Somerset MA

Activity Name	Duration (Days)	Start Date	Finish Date	2018												2019												2020											
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
<b>MODULE 1: ELIGIBILITY PERIOD</b>	266.00	12/13/17	12/19/18	▶																																			
<b>Board Authorization</b>																																							
MSBA Board Vote: Invitation to Participate in Eligibility Period	0.00	12/13/17	12/13/17																																				
Deferred Commencement of Eligibility Period	0.00	5/1/18	5/1/18																																				
MSBA Board Vote: Invitation to Conduct Feasibility Study	0.00	10/31/18	10/31/18																																				
Execution of Feasibility Study Agreement (FSA)	0.00	12/19/18	12/19/18																																				
<b>MODULE 2: FORMING THE PROJECT TEAM</b>	149.00	12/19/18	7/15/19	▶																																			
<b>OPM Procurement</b>																																							
Request for OPM Services Advertised	0.00	12/19/18	12/19/18																																				
OPM Briefing Session	0.00	1/4/19	1/4/19																																				
Request for OPM Services Due	0.00	1/11/19	1/11/19																																				
Conduct OPM Interviews	0.00	1/23/19	1/23/19																																				
Negotiate OPM Contract	7.00	1/28/19	2/5/19																																				
MSBA OPM Panel Review Meeting	0.00	3/4/19	3/4/19																																				
OPM Approval by MSBA	0.00	3/5/19	3/5/19																																				
Execute OPM Contract	0.00	3/11/19	3/11/19																																				
<b>Designer Selection</b>	63.00	4/4/16	6/29/16																																				
MSBA Review/Approval of Designer RFS	14.00	3/26/19	4/12/19																																				
SBC Approval of Designer RFS	0.00	4/22/19	4/22/19																																				
Submit advertisement to Central Register/Newspaper	0.00	4/15/19	4/15/19																																				
<b>RFS for Designer Services Available</b>	0.00	4/24/19	4/24/19																																				
Designer Briefing Session at 3:00PM (Non-Mandatory)	0.00	5/1/19	5/1/19																																				
Deadline for RFS Questions (by 5:00PM)	0.00	5/17/19	5/17/19																																				
<b>RFS for Designer Services Submissions Due (by 10:00AM)</b>	0.00	5/23/19	5/23/19																																				
<b>Submit Designer RFS Responses to MSBA</b>	0.00	5/30/19	5/30/19																																				
DSP Review of Responses	10.00	5/30/19	6/12/19																																				
SMS Subcommittee Review Meeting #1	0.00	6/3/19	6/3/19																																				
SMS Subcommittee Review Meeting #2	0.00	6/17/19	6/17/19																																				
SMS Subcommittee Review Meeting #3	0.00	6/24/19	6/24/19																																				



















## **Educational Program**

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### Profile Questionnaire





**Somerset Public Schools**  
**Somerset Berkley Regional School District**  
*All Students Achieving Excellence*

<p><b>Massachusetts School Building Authority</b>  <b>School District Educational Profile Questionnaire</b></p> <p><b>Date:</b> <u>July 23, 2018</u></p> <p><b>Name of School District:</b> <u>Somerset Public Schools</u></p> <p><b>District Contact (Name, Title):</b>  <u>Jeffrey Schoonover, Superintendent of Schools</u>  <u>Lindsey Albernaz, Director of Business and Finance</u></p>
---

As part of the District’s invitation into the Eligibility Period, the MSBA is seeking the following information to further inform our understanding of the School District’s facilities, teaching methodology, grade configurations and program offerings. If the below information is available in documents previously provided to the MSBA, please indicate in which document and on which page this information may be found.

**SECTION ONE: Facilities**

A. Please confirm the following MSBA 2016 Needs Survey information for all public schools in the District using a “Y” for accurate and “N” for not accurate:

District	School Name	Type	Year Founded	Last Reno.	GSF	Y/N
Somerset	Chace Street	ES	1961	1967	53,800	N
Somerset	North	ES	1973	1988	137,000	Y
Somerset	Somerset Middle	MS	1965	1969	128,400	N
Somerset	South	ES	1952	1957	29,900	N

Using the space below, provide additional information for any inaccurate or incomplete Needs Survey data.

*The chart above was updated to include the years that additions to three of the four schools were completed. These include Chace Street School’s addition in 1967, South*

*Elementary School's addition in 1957, and Somerset Middle School's addition in 1969. These were not reflected in the information on hand.*

*Recent improvements that have been made in the schools include:*

- *Locker replacements at Somerset Middle School in 2016*
- *Asbestos tile removal and tile replacement in the main lobby at SMS in 2015*
- *New boiler at Chace Street School in 2017*
- *Asbestos tile removal and replacement at South Elementary and Chace Street School in 2016*
- *The following school safety improvements have been made:*
  - *Chace Street School parking and driveway reconfiguration in 2017*
  - *South Elementary parking and driveway reconfiguration in 2015*
  - *North Elementary main office relocation in 2018*
  - *Somerset Middle School main office relocation in 2018*
  - *Card swipe access technology in each school and visitor approval technology upgrades, 2018*
  - *Several internal door replacements and vestibule constructions for improved school security*

B. Using the chart below, list Charter Schools (Commonwealth, Innovative, or Horace Mann) and private schools located in the District.

Name of School	Type of School	Year Established	Grades Served	Current Enrollment

**SECTION TWO: Current Program, Grade Configuration, Teaching Methodology**

A. **For elementary and middle schools only** In the chart below, provide information about the current grade configuration for each public school facility adding or editing cells and rows as appropriate. Check the boxes provided to indicate program offerings at each facility. Next to the check, please indicate the number of hours and days the program is offered.

Name of School, Grades Served	Art (Performing and Visual Art)	Music	Math, ELA, Social Studies, Science	Physical Education (Adaptive PE)	Library (media) Classes	World Language	Extended Day Care	Lunch Seatings
Chace Street ES (PK-5)	6.5 hrs/day; Mon - Fri	6.5 hrs/day; Mon - Fri	6.5 hrs/day; Mon - Fri	6.5 hrs/day; Mon - Fri			7:00 - 8:30 AM; 3:15 - 6:00 PM	3 lunches /day

North ES (K-5)	6.5 hrs/day; Mon - Fri	6.5 hrs/day; Mon - Fri	6.5 hrs/day; Mon - Fri	6.5 hrs/day; Mon - Fri			7:00 - 8:30 AM; 3:15 - 6:00 PM	3 lunches /day
Somerset Middle (6-8)	X - 6.5 hours, Mon-Fri	X - 6.5 hours, Mon-Fri	X - 6.5 hrs, Mon-Fri	X - 6.5 hours, Mon-Fri	X - 1 hour every day but open for students every period	X - 7 hours, Mon-Fri		X - 3 seatings for 30 min each
South ES (K-5)	6.5 hrs/day; Mon - Fri	6.5 hrs/day; Mon - Fri	6.5 hrs/day; Mon - Fri	6.5 hrs/day; Mon - Fri			7:00 - 8:30 AM; 3:15 - 6:00 PM	3 lunches /day

**For high schools only** Attach to this questionnaire current program/scheduling information (core, non-core, enrichment and vocational).

B. Does the District belong to a Collaborative? Yes  No

Does the District host a Collaborative? Yes  No

If yes, please provide the name of the Collaborative: South Coast Educational Collaborative

Does the District provide Pre-Kindergarten? Yes  No

Is Kindergarten fee based? Yes  No

If yes, please provide the fee structure \_\_\_\_\_

Does the District provide transportation? Yes  No

If yes, please provide the name of the provider(s) (District or vendor) Fisher Bus, Incorporated (vendor)

C. Using the space below, provide information about the Priority Statement of Interest School's teaching methodology (i.e. self-contained classroom, team teaching, departmental, or cluster). Include class-size policy and if applicable, scheduling particulars.

*Somerset Middle School (SMS) follows a traditional middle school model, with several grade-level teams of teachers (ELA, Mathematics, Social Studies, Science, and Special Education). In addition to teachers working as part of a team, they are also members of content-based departments including ELA, Mathematics, Science and Technology, Social Studies, Special Education, Fine and Performing Arts, and Physical Education/Health. SMS offers several co-taught classes in ELA and Mathematics per grade level, teaming a special educator and general educator together. SMS also has one-two substantially separate classes along with hosting several classes to the South Coast Educational Collaborative (SCEC). SCEC utilizes three classrooms at SMS in return for tuition credits to SCEC programs.*

*The collective bargaining agreement with the Somerset Teachers' Association does not contain any language requiring specific class size limits. However, the schedule is created each year*

*elementary grade level dispersed among three schools, would create enrollment efficiencies and would potentially lead to a reduction in staff.*

*As indicated previously, the district will be implementing a 1:1 technology program at Somerset Middle School beginning in 2019-2020 and is planning to extend this to lower grades as well.*

*As also indicated previously, Somerset Middle School – through recent contract negotiations with the Somerset Teachers’ Association – has agreed to implement a new schedule in 2019-2020. This schedule will require teachers to have more instructional time with students than they have with the existing schedule, which will result in some staff reductions.*

D. Using the space below, indicate any proposed changes to current technology offerings (e.g. “One to One” technology, WiFi hotspots, laptop carts, etc.).

*As stated above, the district will be implementing a 1:1 program in grades 6-8 beginning in 2019-2020 and will likely be extending that to include grades 3-5 soon thereafter. Moreover, Somerset Middle School has begun to expand its regular technology program of study to include robotics and computer science.*

**SECTION FOUR: Space - District’s Priority Statement of Interest**

MIDDLE SCHOOL

A. Complete current information in the table provided below adding or editing cells and rows as appropriate:

<u>ROOM TYPE</u>	<u>No. of Rooms</u>	<u>Comments</u>
<b><u>CORE ACADEMIC SPACES</u></b>		
<i>ELA</i>	10	
<i>Mathematics</i>	10	
<i>Social Studies</i>	6	
<i>Science</i>	6-7	
<i>Engineering Technology</i>	3	
<b><u>SPECIAL EDUCATION</u></b>	7	<i>1-2 self-contained</i>
<b><u>ART &amp; MUSIC</u></b>		
<i>General Art and Music</i>	4	
<i>Auditorium for 1000</i>		Seating for student body
<b><u>HEALTH &amp; PHYSICAL EDUCATION</u></b>		
<i>Gymnasium</i>	1	With dividers for the multiple sports teams



<u>ROOM TYPE</u>	<u>No. of Rooms</u>	<u>Comments</u>
<i>Health class</i>	1	
<b>MEDIA CENTER</b>	1	Library/Media/common
<b>DINING &amp; FOOD SERVICE</b>	1	Seating for 300
<b>MEDICAL SUITE</b>		
Nurses' Office	1	With 3 individual rooms, bathroom
<b>ADMINISTRATION &amp; GUIDANCE</b>		
Principal, Asst. Principal, Admin. Asst., conference room (1 large, 1 small), Waiting area	Suite	

B. If not offered within the District's Priority Statement of Interest school, indicate in the space provided below where the District's collaborative, special education, art, music, health/physical education, media center, dining/food service and technology spaces are offered.  
[Type text here...]

#### **SECTION FIVE: Safety and Security Statement**

Has the District formulated a school specific Multi-Hazard Evacuation Plan (Section 363 of the FY 02 State Budget) for each school under the superintendent's supervision?

Yes  No

What was the date of the last review with local public safety and law enforcement officials?  
Date: Spring, 2018; the plan has been thoroughly reviewed and revised over the past six months and will be approved for the start of the 2018-2019 school year.

#### **SECTION SIX: Attachments**

Please attach to this completed questionnaire any Executive Reports or Conclusions of reports or studies that relate to accreditation, an assessment of facility conditions and/or findings as issued by the Department of Elementary and Secondary Education (DESE). Below, please list the documents attached (as applicable).

Documents attached:

The last instance of Somerset Public Schools having an assessment of facility conditions was in 2002. Administration does not believe the information included in that facility assessment report is relevant at this time, as we have since regionalized our high school and have performed some smaller capital projects identified in that report.

The most recent finding issued by the Department of Elementary and Secondary Education (DESE) was related to our Food Service Program in 2012, where DESE recommended that our food service program be moved from an internal operation to hiring a contracted Food Service Management Company. We have since outsourced our food service program and have seen significant improvements.

Should you have any questions about this questionnaire, please contact Project Coordinator Allison Jones at:

Massachusetts School Building Authority  
617-720-4466  
[www.massschoolbuildings.org](http://www.massschoolbuildings.org)

## Educational Program

### Educational Visioning Sessions

**E**ducational Visioning is a process which brings together a large cross-section of stakeholders and educational leaders to review educational practices both locally and globally. The purpose of this process is to identify learning concepts, goals, and values which can help support a comprehensive, long-term educational program and planning tool for the School District. When a new project is being considered or proposed, educational visioning provides the cornerstone of all educational planning, and it defines the nature of school operations, functions, and opportunities for the future. It can provide a roadmap for the development of an educational facility, which can enhance and support the desired teaching and learning process, as well as shape school and community relationships for decades to come.

Educational Visioning is a catalyst for generating ideas regarding how the school might best be designed to foster 21st Century education while simultaneously incorporating the needs of the community. It challenges educators to think beyond their current practices and facility shortcomings by introducing them to successful 21st Century design patterns; encouraging the District to consider how such patterns can influence the educational environment and building design. It enables the architect to develop building plans which are consistent with the needs of the school, while incorporating the educational, community, organizational, and functional goals and values articulated in the Visioning sessions.

Educational Visioning for the Somerset Middle School was facilitated by Ai3 Architects, LLC and David Stephen of New Vista Design. David holds a Bachelor in Architecture Degree

from Rhode Island School of Design and a Master in Education Degree from Lesley College. As an educator and licensed architect, David has collaborated with many architectural firms, playing a key role in the architectural design of over 40 new and redesigned elementary, middle, and high schools and has 20 years of experience partnering with some of the field's visionaries, working with schools nationwide to imagine, develop, and implement innovative school programs. At New Vista Design, David has helped districts, schools, and educators develop student-centered and inquiry-based curricula and programs.



The Educational Visioning process involved an evaluation of the existing Somerset Middle School's educational delivery, a projection of an ideal educational middle school facility in the future, and an examination of the shortcomings of the current middle school facility. The Visioning process also examined how educational programs and environments can be structured to deliver positive educational, social, and emotional outcomes, and a study of the evolution of the middle school educational environment.

Ai3 Architects has worked with the Somerset School District on a previous school project, the new Somerset-Berkley Regional High School. The educational leadership and collective experience of the School District was evident in the Educational Visioning process. Over the past few months, in preparation for the Somerset Middle School project, the School District toured three local middle schools, which they have identified as examples of leading modern 21st Century middle school programs: Barrington Middle School in Barrington Rhode Island, South-West Middle School in Quincy Massachusetts, and Beverly Middle School in Beverly Massachusetts. The Somerset School District brought a wealth of ideas, information, and suggestions into the Educational Visioning process.

The following individuals are recognized for their commitment to and involvement in this comprehensive process. Their input and guidance proved invaluable and will become a key component in shaping the future of the Town of Somerset and Somerset Public Schools.



Jeffery Schoonover  
 Dr. Pauline Camara  
 Ashley Amado  
 Melissa Andresen  
 Susan Banalewicz  
 Chelsea Boucher  
 Kathleen Byers  
 Machael Cabral  
 Mary Caine  
 Edward Callahan  
 Margaret Cardozo  
 Melinda Coppellotti  
 Sylienne Crisafulli  
 Suzette Cruz-Augusto  
 Kristin DeChellis  
 Cheryl DeFarias  
 Alec Dorsey  
 Lori Dutra  
 Jill Dyl  
 Mark Falcon  
 Matthew Farinha  
 Jessica Fletcher  
 Matthew Forrest  
 Sarah Giardino

Linda Hilliard  
 Kaleigh Holt  
 Michael Johnson  
 Jessica Joynt  
 Donna Keeney  
 James LaMonde  
 Audry Lariviere  
 Tammi Lawrence  
 Kerry Beth Leatherwood  
 Brianna Longo  
 Melissa Lorusso  
 Justine MacKechnie  
 Erin Maia  
 David Marshall  
 John Medeiros  
 Nicole Mello  
 Cassey Monte  
 Leanne Mullin  
 Cormac Murphy  
 Deb Muse  
 Alyssa Pacheco  
 Nicole Pacheco  
 Kaleigh Penn  
 Elizabeth Powers  
 Luann Pratas

Andrew Redfearn  
 Kathy Rego  
 Alison Robidoux  
 Andrea Ross  
 Elaine Sabra  
 Ira Schaefer  
 Susan Schumann  
 Susanna Silva  
 Nicole Spear  
 Alexandra Sullivan  
 Kaitlyn Swift  
 Andrea Teixeira  
 Robert Tomassone  
 Terry Tourigny  
 Brianna Wehner  
 Joy Windle  
 Alicia French  
 Michelle Ahern  
 Barbara Cavaugh  
 Martha Dagenais  
 Nathaniel Dagenais  
 David Stephen  
 Troy Randall  
 Jonathan Quell

## Workshops Overview

During the months of September through November 2019, the entire faculty of Somerset Middle School, as well as a number of Grade 5 teachers, district leadership, and community partners participated in three Educational Visioning Workshops run by New Vista Design and Ai3 Architects. Each workshop was a collaborative session designed to inform the Somerset Middle School MSBA Feasibility Study and Design process. Participants were led through a step-by-step visioning process aimed at capturing their best thinking about Somerset Middle School's current and future educational goals and priorities, and connecting them to best practices and possibilities in innovative school facility design.

On **September 27, 2019** the Somerset Middle School Faculty and SPS leadership participated in Educational Visioning Workshop One. The three-hour long workshop explored the following topics:

- **Priority Goals** for the renovated and/or new Somerset Middle School facility
- **Strengths, Challenges, Opportunities, and Goals (SCOG Analysis)** associated with SPS and SMS's current academic programs as well as the vision for its renovated and/or new facility
- **21st Century Learning Goals** that distill the group's best thinking with regard to Somerset Public Schools' current and future educational programming and priorities

On **October 18, 2019** the Somerset Middle School Faculty and SPS leadership participated in Educational Visioning Workshop Two. The three-hour long workshop explored the following topics:

- **21st Century Design Patterns 1.0** that innovative schools throughout the country have put into practice in order to support their forward-thinking educational practices and vision
- **Guiding Principles 1.0** for design of the renovated and/or new Somerset Middle School facility

On **November 5, 2019** the Somerset Middle School Faculty and SPS leadership participated in Educational Visioning Workshop Three. The two-hour long workshop explored the following topics:

- **Key Spaces and Adjacencies** for the renovated and/or new Somerset Middle School facility
- **Bubble and Adjacency Diagramming** for the renovated and/or new Somerset Middle School facility

# Somerset Middle School Educational Visioning Group Workshop #1 September 27, 2019

The agenda for the first visioning session included the following:

## 1. *Workshop Goals and Introductions*

- Workshop Overview
- The Design Process / Creating a Design Guide
- Introductions
  - Priority Goals for the SMS facility and planning process



## 2. *21st Century Schools and Learning Goals*

- Interactive Presentation: 21st Century Teaching and Learning
- Video and Discussion
- Small group review of assorted 21st Century learning goals and outcomes and creation of priority listings
- Large group prioritization

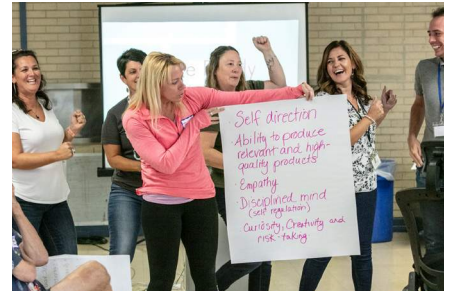


## 3. *SMS Present and Future Educational Priorities*

- Brief presentations of essential and innovative school programs and initiatives presently in practice within SPS and Somerset Middle School

## 4. *SPS/SMS SCOG Analysis*

- Brainstorming of Somerset Public Schools' and Somerset Middle School's Strengths, Challenges, Opportunities, and Goals



## 5. *Closing and Next Steps*

- Next Steps review and Q&A

## ***Priorities and Considerations 1.0***

The following list of priorities and considerations for the design of the renovated and/or new Somerset Middle School combines the responses of Somerset leadership during a Kick-Off Meeting that took place on August 13, 2019, as well as those of the approximately 65 SPS and SMS faculty members who participated in the Faculty Visioning Workshop One that took place on September 27, 2019. Priorities have been grouped by like themes.

### *Welcome and Warmth*

- Warm and friendly environment
- Hallways and routes that limit “traffic jams”
- Hallways that are wide enough for traffic flow
- Natural light
- Painted bulletin boards

### *Safety and Security*

- Analysis of safety and security measures
- Passive and active security, including non-visual aspects of security enhancement
- Cameras and security for every part of common spaces and outdoor space
- Bell system connected to clocks
- Intercom system that can be heard in all areas, including the auditorium, gym, and bathrooms
- Safe entry and security throughout the building
- Bulletproof windows
- Automatic closing doors in crisis
- Consider separate entries for 5/6 and 7/8
- Classrooms with doors that lock

### *Robust Technology*

- Ease of technology integration
- Consider the ways in which technology is evolving and simplifying
- Quick moving working technology
- Integrated technology – projection from ceiling, smart screens
- Charging stations
- Multiple and multiuse power strips or outlets
- Tabletop outlets for Chromebook charging
- High level technology that works all the time
- Up-to-date usable technology (user friendly)
- Stable school network with server access for student work/testing
- Bandwidth infrastructure
- 3D printing
- SMS 8th grade students are implementing a 1:1 Chromebook initiative this (2019-20) school year

### *Special Education*

- Support differentiated instruction
  - We now have three sub-separate programs
- Many small rooms for OT, PT, Speech, individual help, testing
- SPED teacher space in co-taught room(s)
- Life skills classroom with kitchen
- Padded safe sensory room (soundproof)
- Therapy room for regularly occurring assessments and small group classes, including storage for therapeutic and testing supplies; includes office/desk space
- All Special Education / therapy rooms with natural light, locking cabinets, doors for confidentiality, tech/wi-fi/printers with color ink
- Life Skills – built-in or provided tools per classroom or student allowing more practical learning with knowledge of real-world scenarios

### *Agile Classrooms*

- Large classrooms
- Classrooms for each teacher
- Multi-purpose teaching spaces
- Classroom structure easily changes from large to small groups
- Sinks in all rooms
- Mounted projectors – large whiteboards
- All classrooms are fitted with microphone and amplifier system
- Virtual reality space in every classroom or every other classroom
- No “hoteling” – all teachers should have appropriate and designated classrooms/areas to call their own, no moving/sharing like SBRHS
- Plenty of white board space
- Sinks with good drainage
- Closets that lock for teachers’ coats, purses, etc.
- Solid walls in every classroom (movable walls are not cost effective because of breakage and mold issues)
- Special Chemical Disposal Sink
- Sinks and paper towel dispensers in every room
- Working blinds on windows

### Universal Access and Design

- Classroom/building considerations for persons with disabilities including FM capabilities, low vision orientation and visibility, etc.

### Social Emotional Learning

- We need (two) rooms for programs in which struggling students get support as they transition back into the mainstream classrooms after needing to be in separate programs outside of the school

### Team Structure

- Support Teaming / Clusters
- Learning Neighborhoods
- Building set up in teams with curved benches for mini breakout spaces
- SMS has a teaming structure with two teams per grade
  - Each team consists of a cohort of students, core academic teachers, and Special Educational teachers

### The Potential of a 5-8 Program

- The potential of a 5-8 solution for the renovated and/or new facility could alleviate crowding in SPS elementary schools and allow them to grow
- It would also facilitate a more streamlined approach to the delivery of Related Arts
- Consider zones for 5/6 and 7/8

### Community Use and Access

- The building should be a community resource
- Provide community spaces (i.e. gathering, gallery, performing arts center)

### Thermal and Physical Comfort

- Good HVAC
- Climate control for heating and cooling
- "Water-bottle filler" type bubblers
- Mold-free setting

### Flexible Furniture

- Stand-up / movable desks (teacher & students)
- Enough space with flexible seating
- Flexible and modular furniture for students and staff
- Movable, adjustable furniture on wheels + height

### Multipurpose Spaces

- Create multipurpose spaces for extended learning beyond classrooms
- Multiple spaces for use - sign out throughout the building
- Support anywhere, anytime learning

### Collaborative Spaces

- For teaming teachers and for students
- Work spaces for teachers
- Faculty rooms that are inviting, spacious, and functional
- Centrally located teacher copy centers for each grade level
- Teacher areas for each grade level with conference table, technology to allow teams to collaborate with each other and parents

### Breakout Spaces

- Paraprofessional break room with lockers
- Breakout spaces between each pair of classrooms to allow for small group instruction, remediation, small group testing
- Makerspace
- Central English/Tech office for supplies and testing

### Cafeteria / Dining Area

- Big, open cafeteria to fit all students
- Suitable teacher dining
- Dining area for teachers with comfortable chairs (near their rooms)
- Separate selling of food for adults / different food (i.e. soup, salad) where kids don't touch it
- Recycling plan

### Outdoor Learning Spaces

- Consider the design of outdoor, protected courtyard(s)
- Common outdoor green space
- A "Fitness" Trail
- Gardens
- Courtyards to eat in
- Hydroponics
- Community teaching and learning 'gardens'

### Science Labs



- We specifically need labs for grades 7 and 8, but also the lower grades
- Consider how they fit into classroom neighborhoods
- Science classrooms without perimeter stations - make them movable
- Science on a Sphere (like Buttonwood Park Zoo has)
- Dishwashers/sterilizers for science rooms
- Science classrooms with working safety equipment and lab station, ideally desks and lab benches
- Separate storage closets between science classrooms - no lab/storage working around perimeter
- Virtual toolbox (sandbox) for science instruction and functioning outside learning spaces; easily manageable

### STEM Programming

- SMS has been focusing on building its Robotics program and community science
- Consider a Makerspace for the new building
- Engineering Tech is now built into the curriculum - consider how this will look moving forward
- Newton North High School's "Greengineering" program is an interesting model

### Art, Music, and Performance

- The Arts are huge in the town
- An Art Gallery, as well as hallway spaces to showcase student work in general
- Storage for music instruments, equipment, art supplies
- Separate band room/string room/chorus room/Jazz room
- Lockers for instruments
- Band Room, Chorus Room, and PAC for our three genres of music ensemble
- Enough rehearsal rooms to provide for four concurrent rehearsals
- Vocal/Instrumental recording booth in Chorus rehearsal room
- Two General Music Classrooms with acoustic treatments
- Guitar hangers on the wall
- Two Art rooms with projectors, slop sinks, pottery area, tech area, classroom supply storage, teacher demonstration area
- Music practice rooms
- Production studio
- Performing Arts Center Multiuse - music performances, school assemblies, drama productions, community

events

### Auditorium

- It is important to maintain an auditorium at SMS that is as large or larger than the current one
- Big enough auditorium to fit the whole school
- Sound and lighting for auditorium Athletics

### Athletics

- There are 13 sports teams at SMS and the present fields and outside usage is tight
- Gym that fits the entire student body
- Nicer playing fields
- Cross-country is offered at the high school and middle school, but the high school relies on use of the middle school track
- The track is presently used by the community at all times of the day and evening
- Adult / student fitness center
- Gymnasium set up
- Alternative PE space
- Weight room
- Long lockers for all students in the gym locker room
- Indoor/outdoor track, tennis courts
- Turf field for athletics (tennis court) and/or indoor track

### Good Acoustics

- Noise absorbing ceiling tiles for group working in classroom
- Soundproof halls and classrooms that have walls (no open-concept)

### Thoughtful Bathroom Locations

- No Bathrooms located directly in eye sight from classes
- No Bathrooms located off of where we eat

### Outdoor Spaces and Connections

- Indoor-Outdoor connectivity
- Usable outdoor space
- Outdoor spaces for learning opportunities

### Library Media Center

- Well-equipped, accessible library/media center

Transportation and Parking

- Parking / traffic patterns
- Traffic flow improvement
- Parking for staff separate from parents
- Teacher-only in/out car/building access; not shared with parents/bus/drop-offs
- Separate parking entrance for teachers
- More efficient traffic-flow parent drop off
- Teacher parking with separate (private) entrance/exit
- Bigger parking lot

Good Storage and Lockers

- Storage in classrooms
- Adequate storage for supplies and projects
- Locker room privacy
- Lockers that are easily accessible and enough of them
- Spaces for student backpacks in each classroom
- Full length lockers for all students
- Lockers spread out to coordinating classrooms
- Lockers that accommodate winter coats, backpacks - no stacks and near appropriate grade
- Coaches locker rooms

Delivery Area

- Outside access for supply loading

Disciplinary Space

- In school suspension

Nursing Suite

School Store

Day Care for Staff



## ***Future Ready Learning Goals 1.0***

The following set of "Future Ready Learning Goals 1.0" for Somerset Middle School students was developed by the Faculty Visioning Group during Workshop One. Eight teams of 5-6 participants worked to create their own set of learning goals, after which each team presented to the larger group. Individual participants were then given the opportunity to prioritize their top six learning goals. Each team's list was then grouped by like goals, with each Learning Goal receiving six votes for appearing on an original list, and one additional point for each priority vote it received.

### *Self-Directed Learning*

#### **(101 Votes)**

- Self-Motivation
- Disciplined Mind
- Self-Regulation
- Academic Mindset
- Learning to Learn
- Production of High-Quality Work
- Prioritizing, Planning, and Managing
- Increased Independence

### *Empathy and Caring*

#### **(85 Votes)**

- Integrity and Ethical Decision Making
- Cultural Awareness
- Global Perspective
- Diversity and Inclusion
- Service and Compassion
- Respectful Minds

### *Effective Communication*

#### **(62 Votes)**

- Written and Oral Communication
- Digital Age Literacy

### *Critical Thinking and Problem Solving*

#### **(57 Votes)**

- Analytical and Creative Problem Solving
- Empirical Reasoning – Prove it!
- Ask How Things are Connected
- Social Reasoning

### *Leadership and Collaboration*

#### **(39 Votes)**

- Impersonal Skills
- Working in Teams

### *Creativity and Risk-Taking*

#### **(37 Votes)**

- Curiosity and Imagination
- Adaptability
- Creative Minds

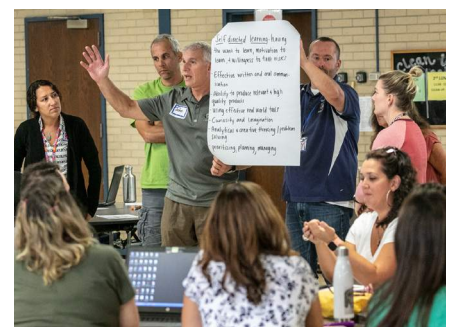
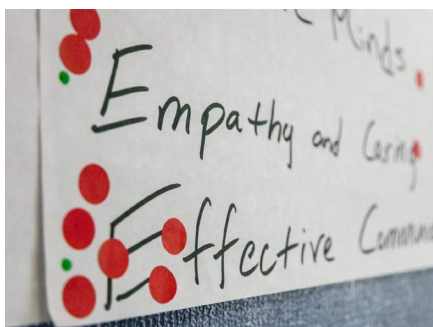
### *Real-World Learning*

#### **(13 Votes)**

- Effective Use of Real-World Tools
- Application

### *Mastery of Core Academics*

#### **(9 Votes)**



## SCOG Analysis

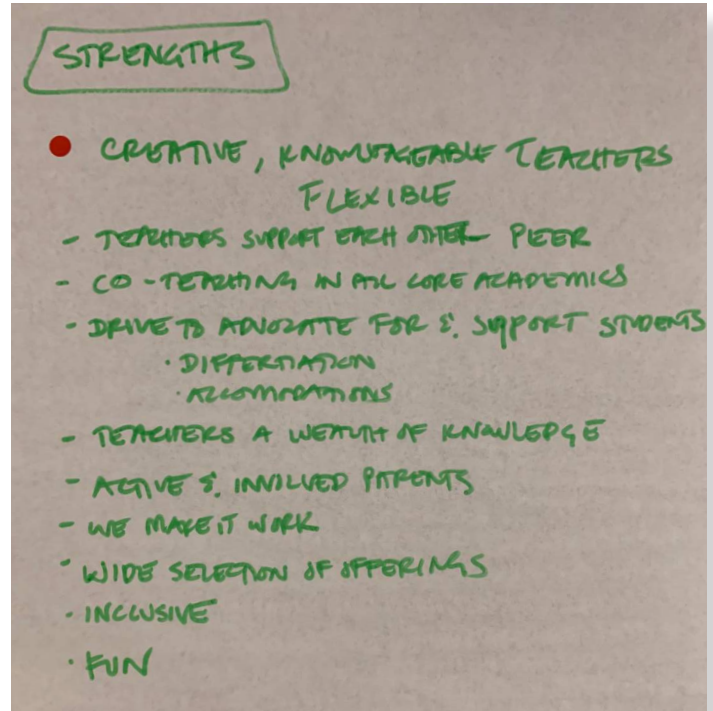
Somerset Middle School SCOG Analysis

The SCOG (Strengths, Challenges, Opportunities, and Goals) Analysis looks at the perceived Strengths and Challenges of the school program, the District, and the larger Somerset Middle School community, as well as the Opportunities and Goals that emerge from them, particularly regarding the new and/or renovated facility. The following is a summary of what the participants believed to be the Strengths, Challenges, Opportunities, and Goals within Somerset Middle School. The entire workshop's participants collectively collaborated and shared their thoughts with the Design Team.

The following list of Strengths, Challenges, and Opportunities & Goals with regard to Somerset Middle School's programming and facilities combines the responses of SMS faculty members during Workshop One.

### Strengths

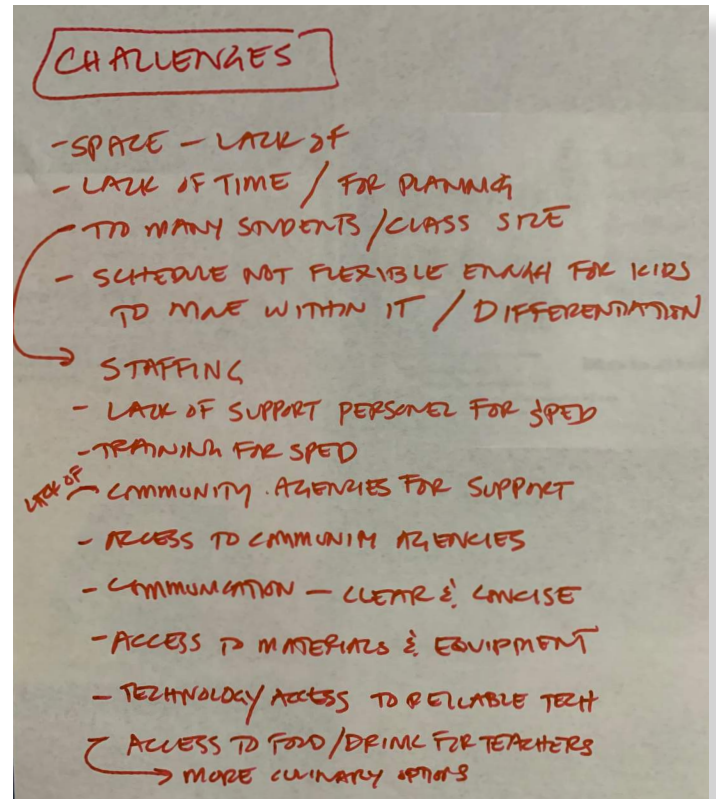
- Team model (class organization)
- Interdisciplinary teams
- Co-teaching in all core academics
- Content planning time
- Strong staff with a wealth of knowledge
- "Good" students
- Inclusive culture
- Creative and flexible teachers
- Peer support
- Staff that pushes through adversity
- Good guidance counselors
- Strong curriculum that is aligned with state standards
- Staff that stays current to keep up with standards
- Wide selection of offerings
- Lots of different opportunities for students
- Lab-aids program (science)
- Hands on projects - STE
- Drive to advocate for and support students
  - Differentiation
  - Accommodations
- Constant reassessment of students' needs
- Meeting individual student needs
- Related arts opportunities
- Strong music and art programs
- Community support for music and art programs
- Talented staff in music and art that practice their crafts outside of the school and share these experiences with their classes
- Active and involved parents
- We make it work
- Fun



### Challenges

- Limited and Insufficient
  - Funding
  - Materials and Equipment
  - Administrative support
  - Infrastructure
  - Access to technology
  - Relevant Training
  - Effective discipline protocols
  - Resources (books for students)
  - Social emotional support for students and teachers
- Schedule
  - Schedule not flexible enough for kids to move within it/differentiation
  - No time to meet with department coordinator during school day

- Limited teacher participation / planning time
- Lack of time to meet with content areas, co-teachers
- Teachers are overbooked
- Time for music performance and art spectrum instruction
- Musical instrumental feeder system (not enough time for individual/small group instruction)
- Trying to get done all that is needed to do during the school day without much "down" time
- Class Size
  - No cap (30+)
  - Diversity of needs and lack of resources
  - Increased number of students in a class including number of SPED / 504 students
- Training
  - Not enough training for all the changes
  - Unrealistic expectations
  - We are hard workers with low pay
- Special Education
  - Lack of support personnel for SPED
  - Training for SPED
  - Too many special ed. meetings
  - Not enough paraprofessional support
- Curricular
  - Project based learning is not interdisciplinary
  - State standards limit the amount of creative, valuable, authentic learning
  - The amount of state standards required to cover mastery are counter-productive to additional or "off curricula" projects
  - Lack of consistency across grade levels / teams
  - Too much change in a short period of time
  - Creating new programs
  - We need homogeneous lessons
  - Grade focused community - just "A's", not challenging work
  - No food or fun days - school learning should have rewards
  - Rallies or Spirit Days
- Technology Infrastructure
  - Tech stability
  - Access to reliable technology
- Community
  - Lack of community agencies for support
  - Access to community agencies



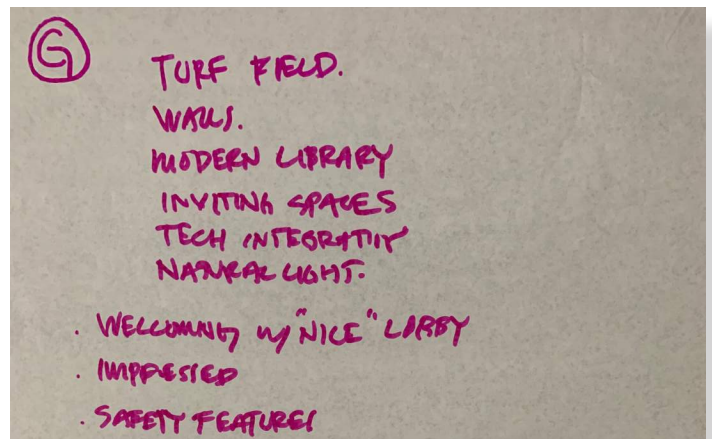
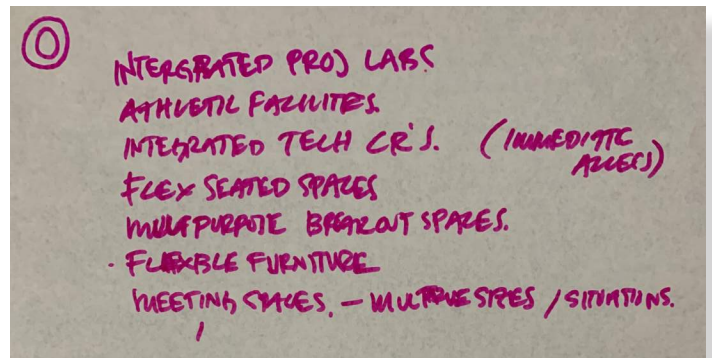
- Public perception
- Meeting the needs of the community
- Challenging demographics of parents and guardians which can supersede our professional opinion
- 5/8 Model
  - In a 5/8 model, elementary schools will focus on math and reading because of MCAS school
  - Science is in grade 5
- Communication
  - Poor communication from administration
  - No clear and concise direction
  - Poor moral
  - PA announcement (AM) hard to hear and include "nonsense"
- Food
  - Access to food / drinks for teachers
  - More culinary options
- Facility Related
  - Old building
  - Circulation - points of entry
  - Lack of space
  - Temperature control challenges

- Traffic and congestion
- Lack of storage space
  - for music and art departments especially
- Mold / Asbestos
  - Building is toxic physically
- Space issues - SPED (specialized programs)
- Open classroom concept
  - Walls in grade 6 wing
  - Open room concept art rooms
  - Lack of walls and separate spaces
- Overcrowded classrooms and not enough room
- Lack of common planning time area
- Grade 6 lockers far from grade 6 classrooms
- No more "bulletin" boards - bulletin boards are "old school"

Opportunities and Goals

- Curriculum Related
  - Teach kids to love learning
  - Real life applications through STEM projects
  - Using Google classroom
  - Technology integration and integrated tech classrooms with immediate access
  - Integrated project labs
  - Hands-on education in disciplines other than science and related arts
  - Gardening / landscaping / education with a purpose
  - More collaboration
  - More connection with students
  - Share more ideas / teachers support
  - Address challenges listed - i.e. co-teaching
  - Increase ability to meet all students needs
  - More creative project-based learning
  - More flexibility
  - Special teachers split by content
  - Special Ed. students scheduled / grouped appropriately
  - Transition conversations / Planning with previous grade level
  - Flexible seating will allow collaboration and privacy for testing, etc.
  - More engaging projects
  - Well rounded, responsible students
  - Department offices

- Facility Related
  - Spaces that foster good teaching and learning
  - Welcoming with "nice" lobby
  - Natural light
  - Making a good impression - impressive
  - Modern library
  - Multi-purpose breakout spaces
  - Large and mini breakout spaces
  - Meeting spaces - multiuse sizes / situations
  - Flexible seating spaces
  - Makerspace
  - Gallery space
  - Access to outdoor space
  - Athletic fields
  - Turf field
  - Adaptive physical education equipment
  - Shift public perception
  - Community supports building / teacher
  - Inviting spaces
  - Safety features
  - More space
  - Gross motor room



# Somerset Middle School

## Educational Visioning Group Workshop #2

October 18, 2019

The agenda for the second visioning session included the following:

### 1. Workshop Goals and WS One Debrief

- Introduction of new members
- Review of:
  - Learning Goals
  - SCOG Analysis

### 2. 21st Century Schools Facility Design Patterns

- Presentation and Q&A

### 3. Design Patterns for Somerset Middle School

- Small group review of assorted facility design patterns
- Creation of priority listings
- Large group prioritization

### 4. Guiding Principles for Design

- Presentation and Q&A

### 5. Guiding Principles for Design

- Small group review of assorted Guiding Principles and creation of priority listings
- Large group sharing and prioritization

### 6. Closing and Next Steps

- Next steps review and Q&A



**Priorities and Considerations 2.0**

The following list of priorities and considerations for the design of the renovated and/or new Somerset Middle School combines the responses of Somerset leadership during a Kick-Off Meeting that took place on August 13, 2019, as well as those of the approximately 65 SPS and SMS faculty members who participated in the Faculty Visioning Workshop One that took place on September 27, 2019 and **The Faculty Visioning Workshop Two** that took place on October 18, 2019. Priorities have been grouped by like themes.

Welcome and Warmth

- Warm and friendly environment
- Hallways and routes that limit “traffic jams”
- Hallways that are wide enough for traffic flow
- Natural light
- Painted bulletin boards

Safety and Security

- Analysis of safety and security measures
- Passive and active security, including non-visual aspects of security enhancement
- **“Fog” windows for security, and/or blinds in glass**
  - **Controlled by teachers and administration**
- Cameras and security for every part of common spaces and outdoor space
- **Fobs, rather than keys for classroom doors**
- Bell system connected to clocks
- Intercom system that can be heard in all areas, including the auditorium, gym, and bathrooms
- Safe entry and security throughout the building
- Bulletproof windows
- Automatic closing doors in crisis
- Consider separate entries for 5/6 and 7/8

- Classrooms with doors that lock
- **Alarms for doors left open to the exterior**
- **“Airport” style student rest rooms**

Robust Technology

- Ease of technology integration
- Consider the ways in which technology is evolving and simplifying
- Quick moving working technology
- Integrated technology - projection from ceiling, smart screens
- Charging stations
- Multiple and multi-use power strips or outlets
- Tabletop outlets for Chromebook charging
- High level technology that works all the time
- Up-to-date usable technology (user friendly)
- Stable school network with server access for student work/testing
- Bandwidth infrastructure
- 3D printing
- SMS 8th grade students are implementing a 1:1 Chromebook initiative this (2019-20) school year
- **High ceilings in technology area for drones**





Special Education

- Support differentiated instruction
  - We now have three sub-separate programs
- Many small rooms for OT, PT, Speech, individual help, testing
- SPED teacher space in co-taught room(s)
- Life skills classroom with kitchen
- Padded safe sensory room (soundproof)
- Therapy room for regularly occurring assessments and small group classes, including storage for therapeutic and testing supplies; includes office/desk space
- All Special Education / therapy rooms with natural light, locking cabinets, doors for confidentiality, tech/wi-fi/printers with color ink
- Life Skills - built-in or provided tools per classroom or student allowing more practical learning with knowledge of real-world scenarios

Agile Classrooms

- Large classrooms
- Classrooms for each teacher
- Multi-purpose teaching spaces
- Classroom structure easily changes from large to small groups
- Sinks in all rooms
- Mounted projectors - large whiteboards
- All classrooms are fitted with microphone and amplifier system
- Virtual reality space in every classroom or every other classroom
- No "hoteling" - all teachers should have appropriate and designated classrooms/areas to call their own; no moving sharing like SBRHS
- **Problem-based learning areas**
- Plenty of white board space
- Sinks with good drainage
- Closets that lock for teacher's coats, purses, etc.
- Solid walls in every classroom (movable walls are not cost effective because of breakage and mold issues)
- Special Chemical Disposal Sink
- Sinks and paper towel dispensers in every room
- Working blinds on windows
- **Maker areas in classrooms**

Universal Access and Design

- Classroom/building considerations for persons with disabilities including FM capabilities, low vision

orientation and visibility, etc.

- **Sound buffers in the hall/lockers**

Social Emotional Learning

- We need (two) rooms for programs in which struggling students get support as they transition back into the mainstream classrooms after needing to be in separate programs outside of the school

Team Structure

- Support Teaming / Clusters
- Learning Neighborhoods
- **Grade level zones**
- **Teacher areas for grade level conference table**
- **Spacious Faculty Rooms**
- Building set up in teams with curved benches for mini breakout spaces
- SMS has a teaming structure with two teams per grade
- **Each team consists of a cohort of students, core academic teachers, and Special Educational teachers**

The Potential of a 5-8 Program

- The potential of a 5-8 solution for the renovated and/or new facility could alleviate crowding in SPS elementary schools and allow them to grow
- It would also facilitate a more streamlined approach to the delivery of Related Arts
- Consider zones for 5/6 and 7/8

Community Use and Access

- The building should be a community resource
- Provide community spaces (i.e. gathering, gallery, performing arts center)

Thermal and Physical Comfort

- Good HVAC
- Climate control for heating and cooling
- "Water-bottle filler" type bubblers
- Mold free setting

Flexible Furniture

- Stand-up / movable desks (teacher & students)
- Enough space with flexible seating
- Flexible and modular furniture for students and staff

- Movable, adjustable furniture on wheels + height

### Multi-Purpose Spaces

- Create multi-purpose spaces for extended learning beyond classrooms
- Multiple spaces for use - sign out throughout the building
- Support anywhere, anytime learning

### Collaborative Spaces

- For teaming teachers and for students
- Work spaces for teachers
- Faculty rooms that are inviting, spacious, and functional
- Centrally located teacher copy centers for each grade level
- Teacher areas for each grade level with conference table, technology to allow teams to collaborate with each other and parents

### Breakout Spaces

- Paraprofessional break room with lockers
- Breakout spaces between each pair of classrooms to allow for small group instruction, remediation, small group testing
- **Large breakout spaces for each team**
- **"Zen Den"**
- **Teacher Study Room**
- Makerspace
- Central English/Tech office for supplies and testing

### Cafeteria / Dining Area

- Big, open cafeteria to fit all students
- Suitable teacher dining
- Dining area for teachers with comfortable chairs (near their rooms)
- Separate selling of food for adults / different food (i.e. soup, salad) where kids don't touch it
- Recycling plan

### Outdoor Learning Spaces

- **Indoor-outdoor connectivity**
- **Usable outdoor space**
- **Outdoor spaces for learning opportunities**
- Consider the design of outdoor, protected courtyard(s)
- Common outdoor green space

- A "Fitness" Trail
- Gardens
- Courtyards to eat in
- Hydroponics
- Community teaching and learning 'gardens'

### Science Labs

- We specifically need labs for grades 7 and 8, but also the lower grades
- Consider how they fit into classroom neighborhoods
- Science classrooms without perimeter stations - make them movable
- Science on a Sphere (like Buttonwood Park Zoo has)
- Dishwashers / sterilizers for science rooms
- Science classrooms with working safety equipment and lab station, ideally desks and lab benches
- Separate storage closets between science classrooms - no lab/storage working around perimeter
- Virtual toolbox (sandbox) for science instruction and functioning outside learning spaces; easily manageable
- **Greenhouses in Science**

### STEM Programming

- SMS has been focusing on building its Robotics program and community science
- Consider a Makerspace for the new building
- Engineering Tech is now built into the curriculum - consider how this will look moving forward
- Newton North High School's "Greengineering" program is an interesting model

### Art, Music, and Performance

- The Arts are huge in the town
- An Art Gallery, as well as hallway spaces to showcase student work in general
- Storage for music instruments, equipment, art supplies
- Separate band room/string room/chorus room/Jazz room
- Lockers for instruments
- Band Room, Chorus Room, and PAC for our three genres of music ensemble
- Enough rehearsal rooms to provide for four concurrent rehearsals
- Vocal/Instrumental recording booth in Chorus rehearsal room
- Two General Music Classrooms with acoustic

treatments

- Guitar hangers on the wall
- Two Art rooms with projectors, slop sinks, pottery area, tech area, classroom supply storage, teacher demonstration area
- **Soundproof** music practice rooms
- Production studio
- Performing Arts Center Multiuse - music performances, school assemblies, drama productions, community events
- **Representation in design of "Music Town"**

### Auditorium

- It is important to maintain an auditorium at SMS that is as large or larger than the current one
- Big enough auditorium to fit the whole school
- Sound and lighting for auditorium Athletics

### Athletics

- There are 13 sports teams at SMS; and the present fields and outside usage is tight
- Gym that fits the entire student body
- Nicer playing fields
- Cross-country is offered at the high school and middle school, but the high school relies on use of the middle school track
- The track is presently used by the community at all times of the day and evening
- Adult / student fitness center
- Gymnasium set up
- Alternative PE space
- Weight room
- Long lockers for all students in the gym locker room
- Indoor/outdoor track, tennis courts
- Turf field for athletics (tennis court) and/or indoor track

### Good Acoustics

- Noise absorbing ceiling tiles for group working in classroom
- Soundproof halls and classrooms that have walls (no open-concept)

### Thoughtful Bathroom Locations

- No Bathrooms located directly in eye sight from classes
- No Bathrooms located off of where we eat

### Library Media Center

- Well-equipped, accessible library/media center

### Transportation and Parking

- Parking / traffic patterns
- Traffic flow improvement
- Parking for staff separate from parents
- Teacher-only in/out car/building access; not shared with parents/bus/drop-offs
- Separate parking entrance for teachers
- More efficient traffic-flow parent drop off
- Teacher parking with separate (private) entrance/exit
- Bigger parking lot

### Good Storage and Lockers

- Storage in classrooms
- Adequate storage for supplies and projects
- Locker room privacy
- Lockers that are easily accessible and enough of them
- Spaces for student backpacks in each classroom
- Full length lockers for all students
- Lockers spread out to coordinating classrooms
- Lockers that accommodate winter coats, backpacks - no stacks and near appropriate grade
- Coaches locker rooms

### Delivery Area

- Outside access for supply loading

### Disciplinary Space

- In school suspension

### Nursing Suite

### School Store

### Day Care for Staff

### Guidance Suite

### ***Understanding Aspects of 21st Century Schools***

David Stephen presented the following eight aspects of 21st Century Schools after a brief video and examples of how these aspects were incorporated into past projects. Additionally, advantages and disadvantages of each aspect were discussed. The workshop members discussed the applicability of these ideas in their Educational Program. Further discussion of these aspects is provided in the "Architectural Review: Education Analysis" section of this report. The following is what Mr. Stephen explained to the participants:

#### *Corridors*

One could argue that the typical school corridor is one of the most underutilized spaces of the entire building. In a 21st Century school, these "corridors" should instead become part of the team learning environment with transparency to the classroom such that they can be utilized throughout the school day as an area for small group study, independent research, and numerous other academic pursuits.



#### *Small Teams and Personalization*

Teaching teams and flexible project or instructional spaces are key elements in the personalization of education for all students. One of the key components of a 21st Century School is how it addresses the need to break down the larger school population into grade level communities and even smaller learning teams.

These spaces will allow educators to meet the needs of all students in an engaging, creative, and collaborative way, and are critical to the successful personalization of the student experience. The student must feel a personal connection to the staff and students of their community, and such connection begins at arrival. These learning communities must be created in a manner which promotes safety, identity, personalization, pride, belonging, support, and confidence. They must recognize that these feelings can be fostered by a well-organized community which responds to student needs from morning arrival until end-of-day departure.



#### *Community Connections*

A 21st Century School must provide a welcoming environment for not only students and staff but also for community members. Successful facilities should be designed in a way that allows community members to experience student activity and work, and to provide support for such in meaningful ways. Being able to connect with the community through the presentation and display of student work is of vital importance. Because community members will not necessarily be privy to the day-to-day learning experiences of students, providing opportunities to view student work that is rigorous and engaging will build a sense of community between the school and the residents.



### Entry and Exhibit

The interaction of community members and parents, as well as the impression they receive during their visit to the school, are important. Most of the visitors will not have the opportunity to tour all areas of the school, and certainly will not have the opportunity to observe the activities and products of student academic work within the individual learning spaces. The ability for key public areas of the building to exhibit this work, both statically and dynamically, is a crucial component in allowing visitors to experience the learning which is taking place throughout the facility. The building should place education and student activity on display for all to absorb, such as by providing opportunities for fixed exhibits or video display. This exhibit opportunity should not be limited to just the displays at entry points accessible to visitors, but should be inherent within the academic zones, allowing students to present and display their project work to other students and to the public. This process instills student pride and enhances community relations.



Module 3 - Preliminary Design Program

### STEAM

The modern 21st Century middle school environment supports the integration of the key subjects of Science, Technology, Engineering, Arts, and Mathematics (STEAM) into real world business and scientific applications. The integration of these programs not only helps students understand the importance of these topics individually, but also the way they support each other. A focus on STEAM initiatives allows teachers and students to collaborate more successfully by engaging the student population through a vibrant curriculum.



### Media Center and the Distribution of Media

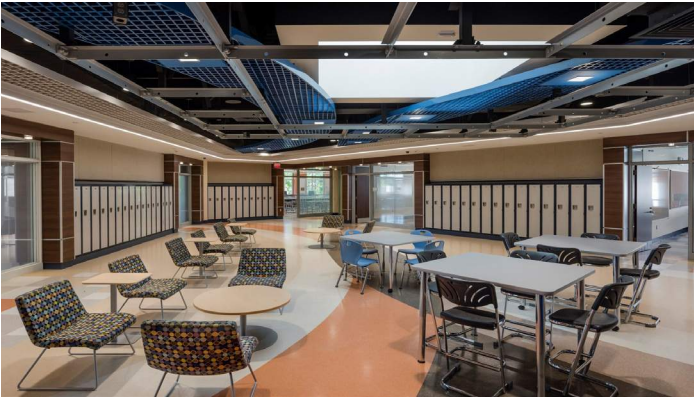
The library media center of a 21st Century learning facility should reinforce global media distribution and retrieval resources throughout the school environment. The functions of the library media center should be carefully considered throughout the planning process, as the focus on creating academic teams may warrant the need to satellite some resources to the individual teams or grade-level communities. Media research should occur in many places throughout the school environment, and distributing some resources while maintaining a core library media center has proven beneficial in creating a more dynamic environment in other 21st Century facilities.



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Socialization and Learning

Social skills and the need to communicate outside of the project/instructional environment are key elements in promoting positive student development. Students must have the opportunity to socialize with their peers without being confined to the traditional restrictions of a "cafeteria" where students are herded into a space and directed to function in a stereotypical way. Schools where social dining is distributed throughout the school environment with less restrictions and/or boundaries have proven to promote significantly more student collaboration while simultaneously reducing discipline problems. The student dining area can also play a significant role in parent and community interaction with the school by providing flexible space which supports presentations, programs, and events. It can serve as one of the primary social hubs of not only the school, but also the entire community.



Flexible Project and Instructional Space; the Flexible Classroom

Spaces utilized for 21st Century instructional practices should not segregate instruction from application. The modern comprehensive middle school environment must be a flexible space that accommodates both instruction and application. It should allow for students to be creative and grow as learners throughout the course of their day. The Maker/Builder spaces that are dedicated to project based learning should be highly integrated to the academic classrooms and/or environment.



## ***Desired 21<sup>st</sup> Century Design Patterns 1.0***

The following set of priority "21st Century Design Patterns" for the design of the renovated and/or new Somerset Middle School was developed by the Faculty Visioning Group during Workshop Two. Eight teams of 5-6 participants each worked to create their own set of 8-10 priority Design Patterns based on 40 patterns that were presented and discussed within the workshop. Design Patterns were then grouped by like themes and are listed below in order of the number of "votes" they received, with each pattern given 5 votes for every time that it appeared on a team's list.

### *Indoor/Outdoor Connections*

#### **(45 Votes)**

- Outdoor Learning and Gathering Spaces
- Outdoor Gardens
- Outdoor Learning

### *Agile Classrooms*

#### **(40 Votes)**

- Large Classrooms

### *Flexible Furniture*

#### **(40 Votes)**

- High Quality Seating

### *Classroom Neighborhoods*

#### **(35 Votes)**

- Learning Clusters

### *Safety and Security*

#### **(35 Votes)**

- Secure Entrance
- No Community Access to Classrooms

### *Breakout Spaces*

#### **(35 Votes)**

- Good Sized Breakout Rooms

### *Extended Learning Spaces*

#### **(30 Votes)**

- Collaborative Spaces

### *Welcoming Arrival*

#### **(30 Votes)**

- Greeting and Gate-keeping
- Welcoming Entry

### *Natural Light*

#### **(25 Votes)**

- Sustainability

### *Maker Spaces*

#### **(25 Votes)**

- Flexible Science Labs

### *Effective Storage*

#### **(25 Votes)**

- Alternative Storage
- Storage Cubbies

### *Learning Commons*

#### **(25 Votes)**

- Heart of the School
- Media Center Learning Commons

### *Cafeteria Forum*

#### **(25 Votes)**

- Cyber Dining

### *Professional Work Areas*

#### **(20 Votes)**

- Teacher Workspaces
- With Full Kitchen

### *Display and Exhibition*

#### **(20 Votes)**

- Visible Learning and Transparency

### *Wayfinding and Streetscapes*

#### **(10 Votes)**

- Wide Hallways
- Good Flow

### *Enrichment Spaces*

#### **(10 Votes)**

### *Varied Performance Venues*

#### **(10 Votes)**

Adequate Space

**(10 Votes)**

- Classroom for Every Teacher
- Extra Rooms for Increase in Enrollment

Branding and Identity

**(5 Votes)**

- Bells and Intercoms in All Areas
- Lots of Outlets

Community Access

**(5 Votes)**

- Separate Entry to Cafeteria for Community Events

Distributed Dining

**(5 Votes)**

- Smaller Dining Venues

Integrated Technology

**(5 Votes)**

- Bells and Intercoms in All Areas
- Lots of Outlets





## ***Guiding Principles 1.0***

The following set of DRAFT “Guiding Design Principles 1.0” for design of the renovated and/or new Somerset Middle School facility was developed by the Faculty Visioning Group during Workshop Two. Eight teams of 5-6 participants each worked to create their own set of 4-6 Guiding Principles. These were then grouped by like themes and are listed below in order of the number of “votes” they received, with each guiding principle given 5 votes for every time that it appeared on a team’s list.

Guiding Design Principles offer a framework of educational priorities that prove invaluable in helping stakeholders and design team members to set design goals and focus their work. This first iteration of Guiding Principles may continue to develop as the design process unfolds.

### *21st Century Learning and Beyond*

#### **(70 Votes)**

- Lifelong Learning
- Creative and Visible Learning
- Real-World Learning
- Intellectual Engagement
- Interdisciplinary Learning
- Connections to 21st Century Skills
- 21st Century Thinking and Doing
- Growth Mindset
- STEAM

### *Belonging and Ownership*

#### **(55 Votes)**

- Warm, Safe, and Inviting
- Neighborhood Clusters
- Small School Feel, Large School Pride
- Learning Communities
- Personalization and Connection

### *Flexibility*

#### **(35 Votes)**

- Adaptable Space

### *Safety and Security*

#### **(35 Votes)**

### *School as Community Resource*

#### **(20 Votes)**

- Community Access

### *Outdoor Connections*

#### **(20 Votes)**

### *Sustainability*

#### **(10 Votes)**

- Building as Teacher

# Somerset Middle School Educational Visioning Group Workshop #3

November 5, 2019

The agenda for the second visioning session included the following:

## 1. Workshop Goals and WS Two Debrief

- Introduction of new members
- Review of:
  - Priority Design Patterns 1.0
  - Guiding Principles for Design 1.0
- What Strikes Us? What's Missing?



## 2. Bubble Diagramming

- Individual and small group diagramming of key spaces and desired adjacencies within the renovated and/or new Somerset Middle School
- Large Group Sharing



## Guiding Principles 2.0

The following set of DRAFT "Guiding Design Principles 2.0" for design of the renovated and/or new Somerset Middle School facility was developed by the Faculty Visioning Group during Workshop #2, edited during Workshop #3. Eight teams of 5-6 participants each worked to create their own set of 4-6 Guiding Principles. These were then grouped by like themes and are listed below in order of the number of "votes" they received, with each guiding principle given 5 votes for every time that it appeared on a team's list.



### Educational Innovation

- Neighborhood/Grade Level Learning Communities (two teams per grade)
  - Visible Learning
  - Transparency between spaces
- Display of student work (digital and physical)
- Active / Hands-on learning experiences through the integration of neighborhood project labs
- Flexibility of space and furniture (adaptability and minimization of permanent built-ins)

### Safety and Security

- Implementation of Passive and Active site and building security measures to enhance a secure, non-invasive building approach and entry sequence, and natural administrative oversight of student activity.
- Use of technologies that allow for daily transparency between classroom spaces and immediate opacity in the event of an emergency (ie. "Smart Glass")

### Belonging and Ownership

- Warm, Safe, and Inviting
- Display of Student & School Pride (Pride and Respect)
- Student ownership of recycle program, technology help desk, student gardens, school store, etc.

### Indoor/Outdoor School and Community Connections

- Building organization that maximizes views to the exterior and use of natural daylighting
- Site development for educational opportunities
  - Direct access from neighborhood learning communities (and project labs) to an exterior educational courtyard and amphitheater (use of existing site topography)

- Use of existing wooded area and trails to create fitness stations (connection to PE / Athletics / Sports programs)
- Community access and use of site amenities (athletic fields, fitness/walking trails, bocce ball, shuffleboard, community gardens)
- Community access and use of building's public spaces (ie. Art Gallery, Auditorium, Gymnasium/ Fitness Spaces)

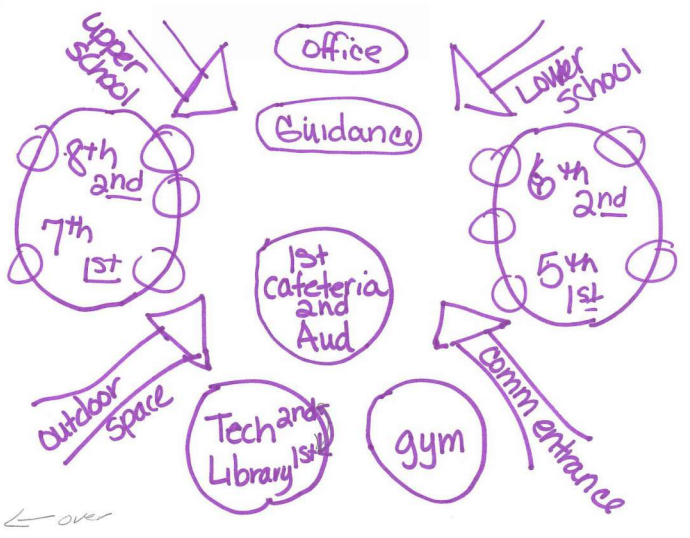
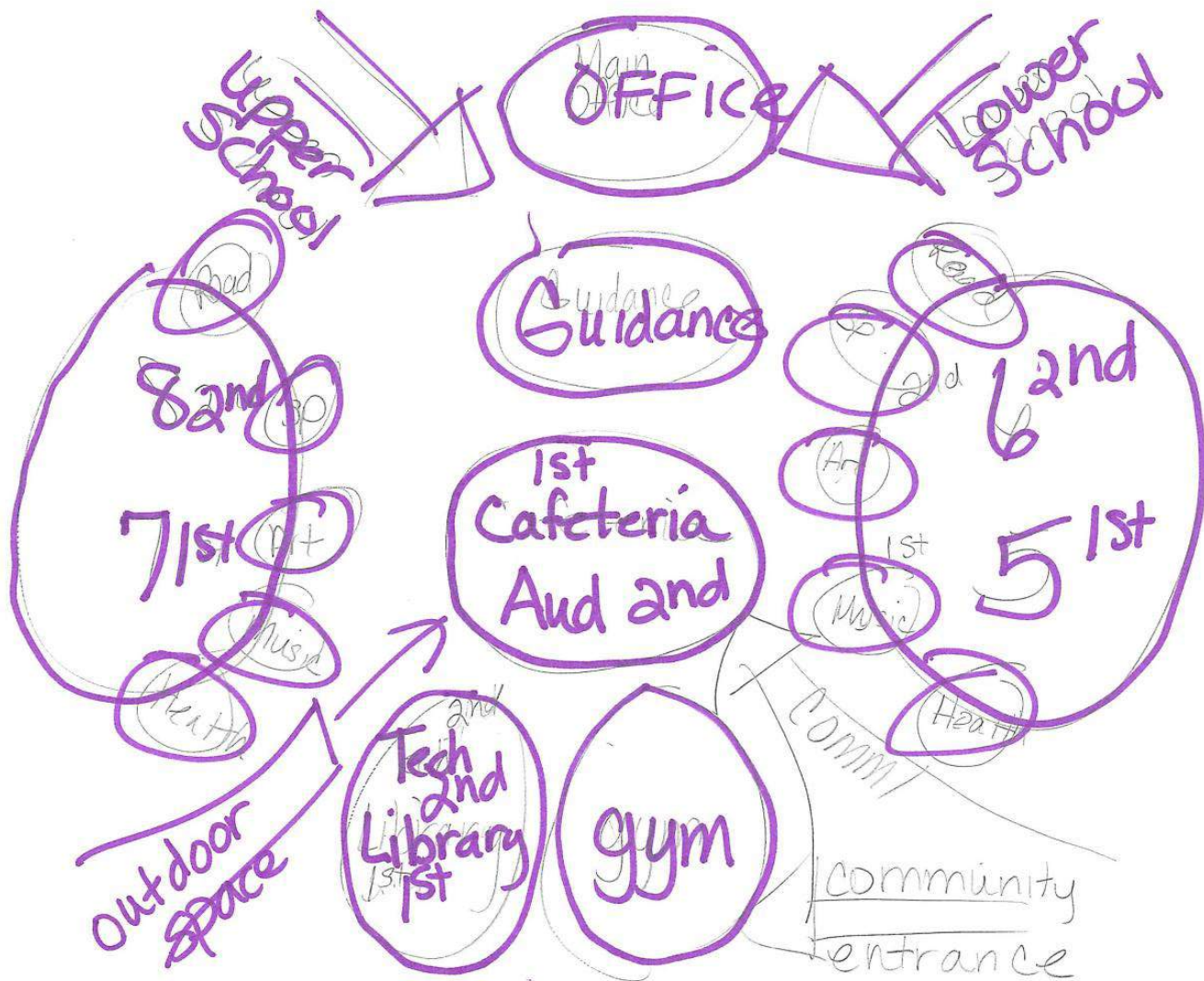
Sustainability

- Maximize Energy Efficiency
- Integration of existing on-site renewable energy (Photovoltaics)
- Site and Building as a Teaching Tool
- Use of site topography and features for educational opportunities
- Strategic exposure of building systems
- Integration of building technologies into curriculum

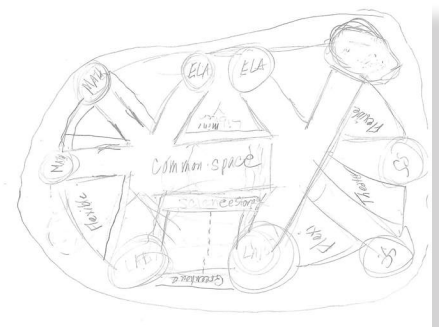
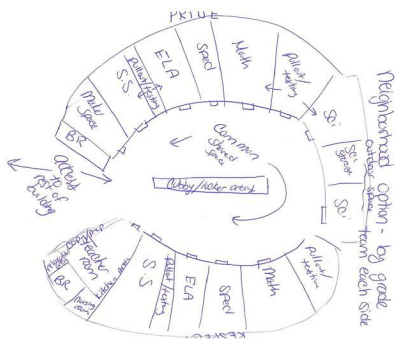
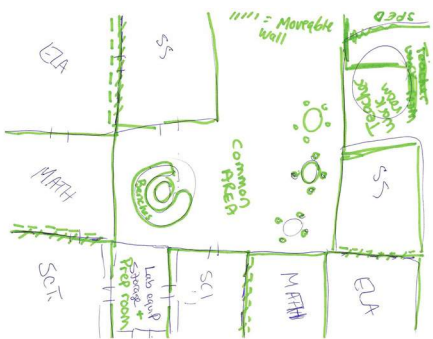
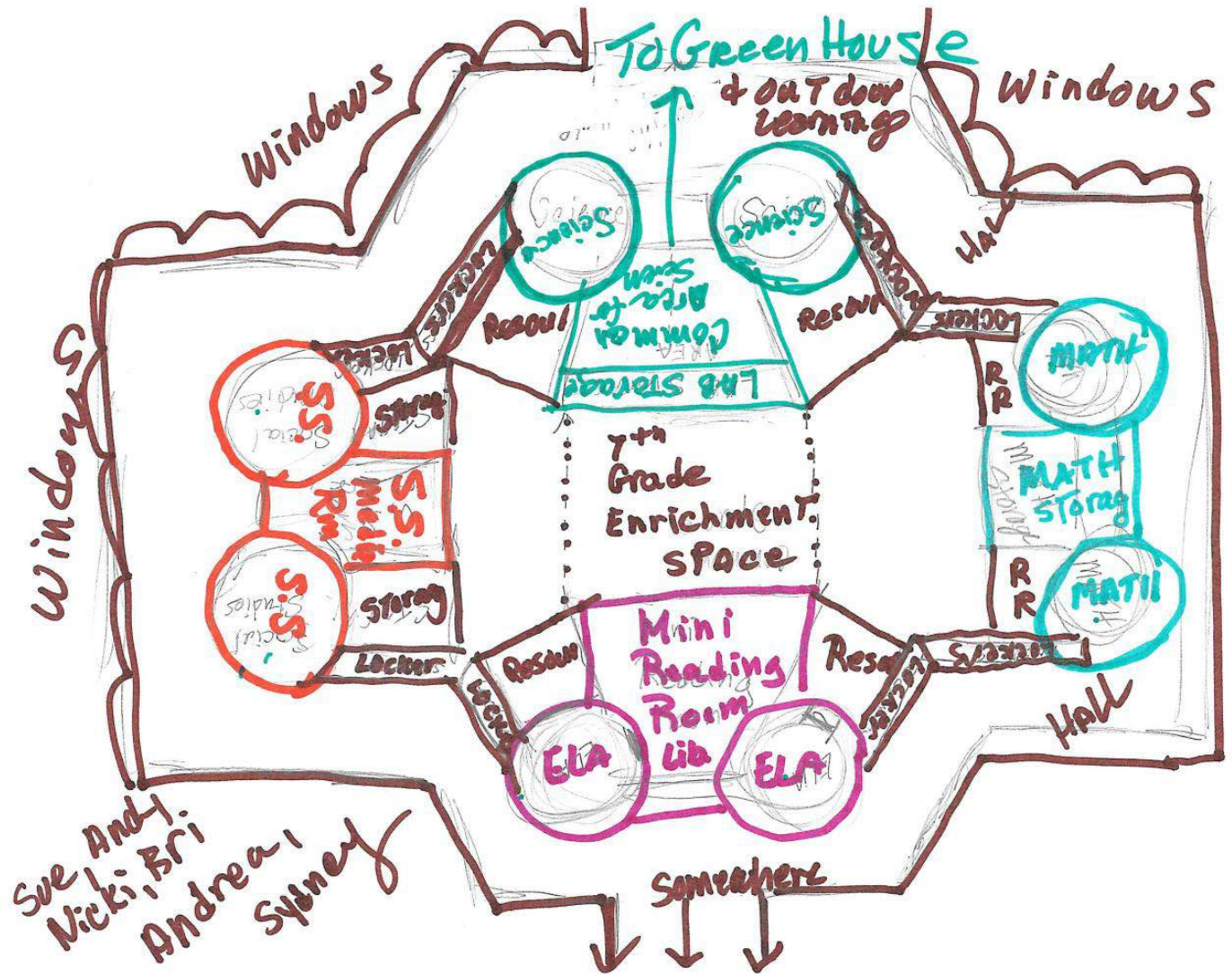
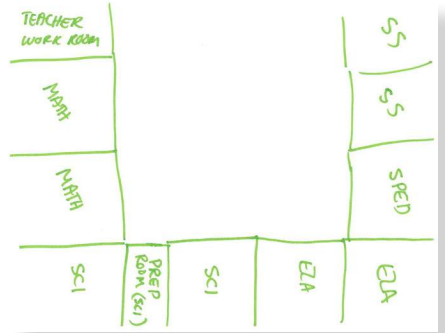


**Bubble Diagramming**

Whole School Diagrams

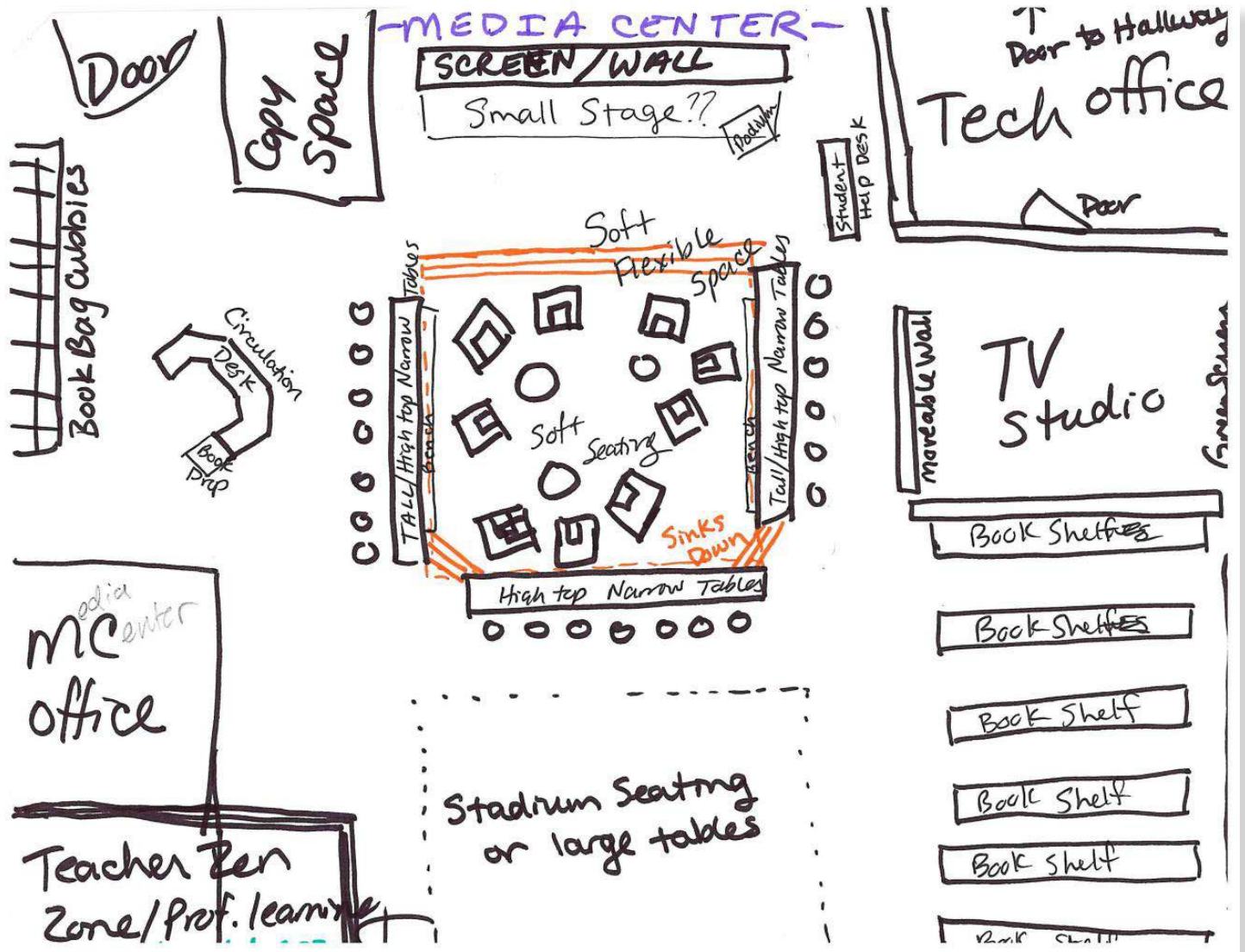
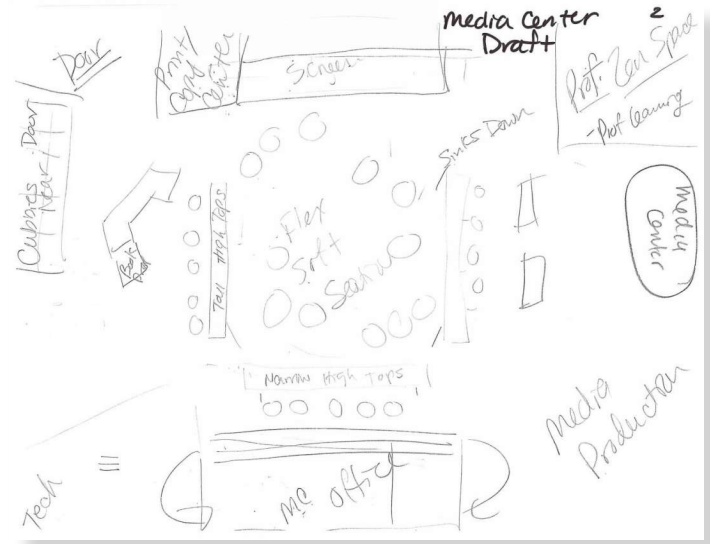


**Bubble Diagramming**  
 Neighborhood Diagrams



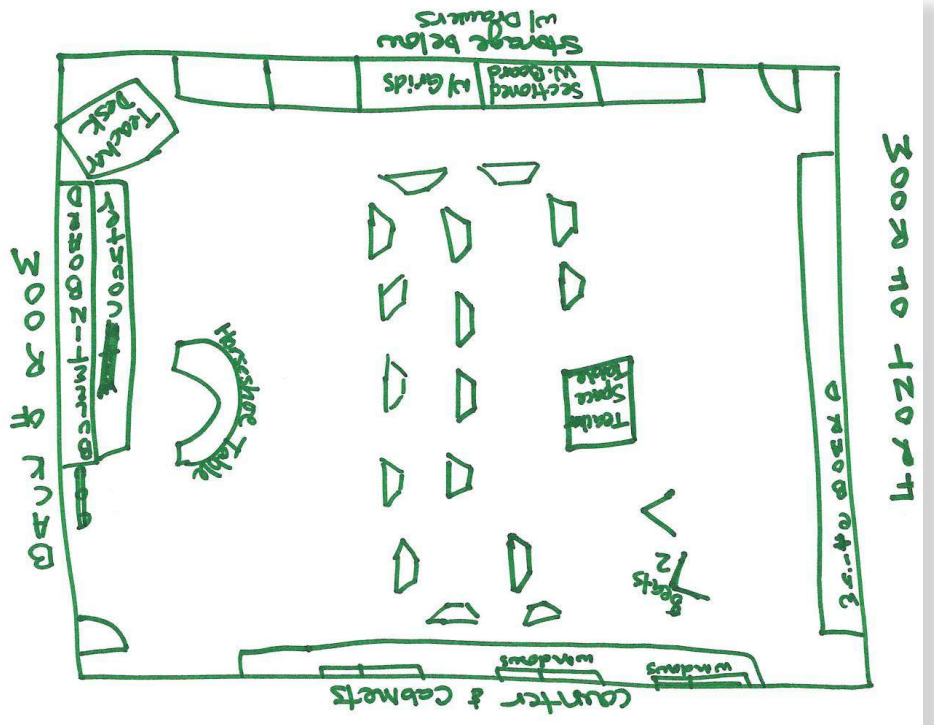
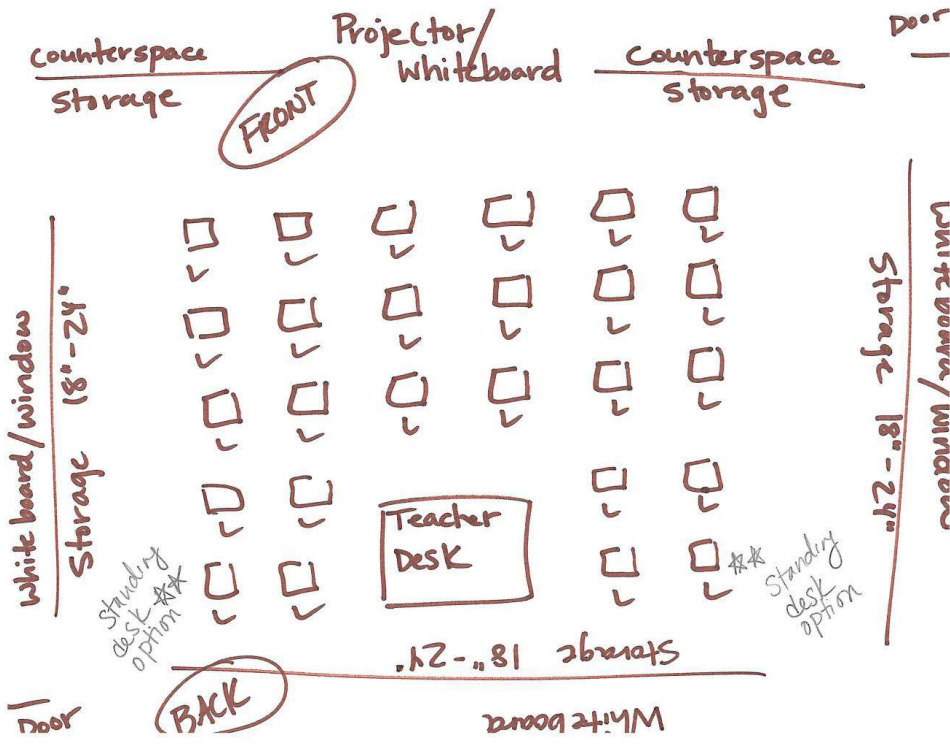
**Bubble Diagramming**

Media Center Diagrams



**Bubble Diagramming**

Classroom Diagrams



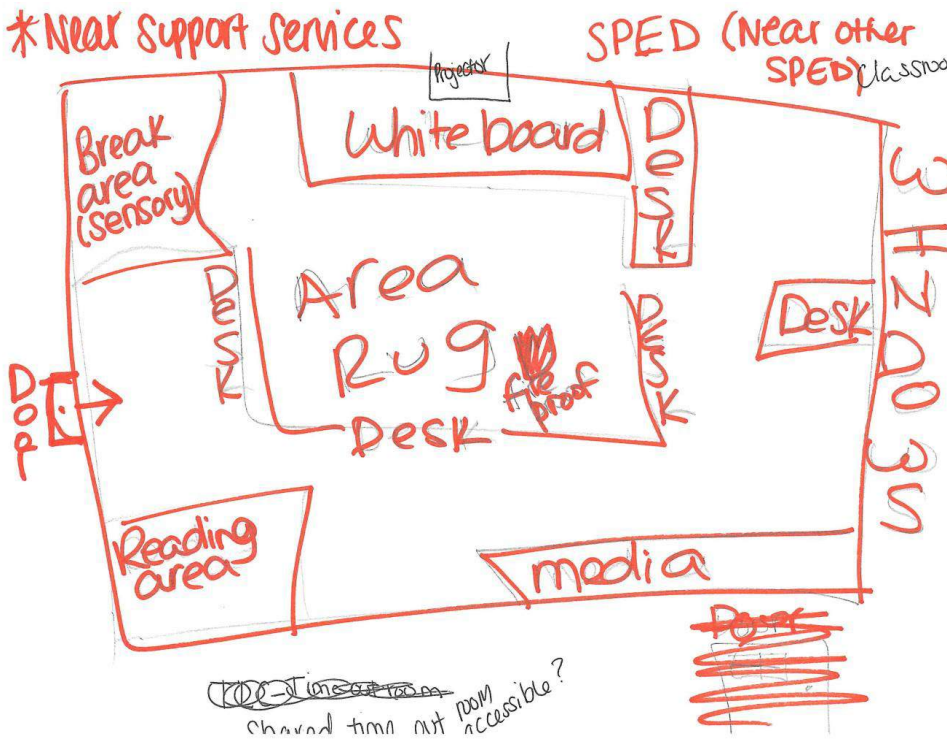
**Bubble Diagramming**

Life Skills Classroom Diagram



**Bubble Diagramming**

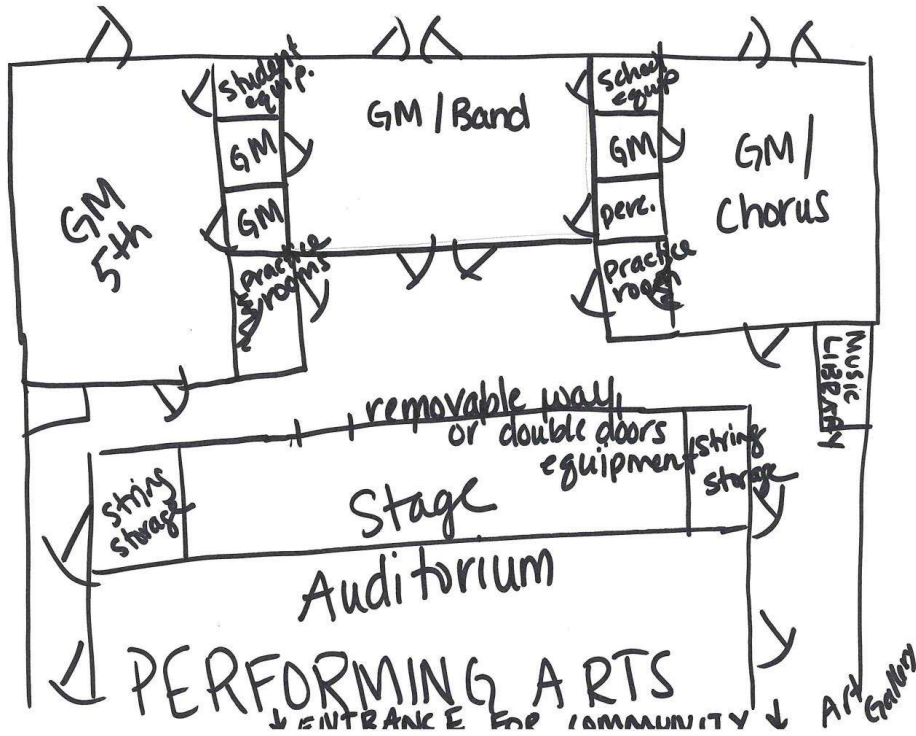
Special Education Classroom Diagram





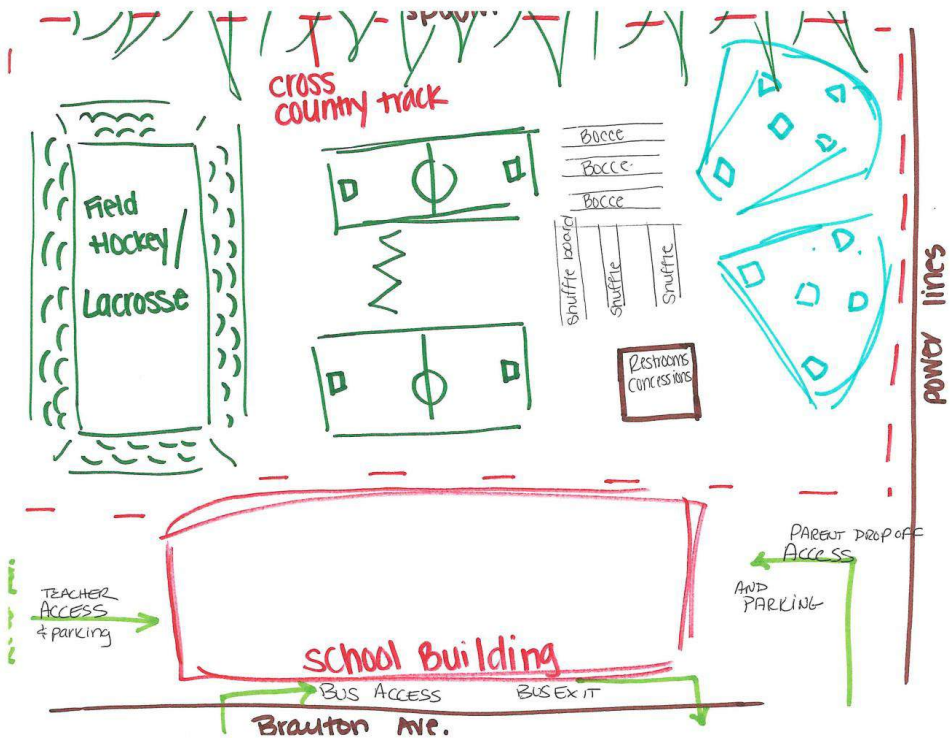
**Bubble Diagramming**

*Life Skills Classroom Diagram*



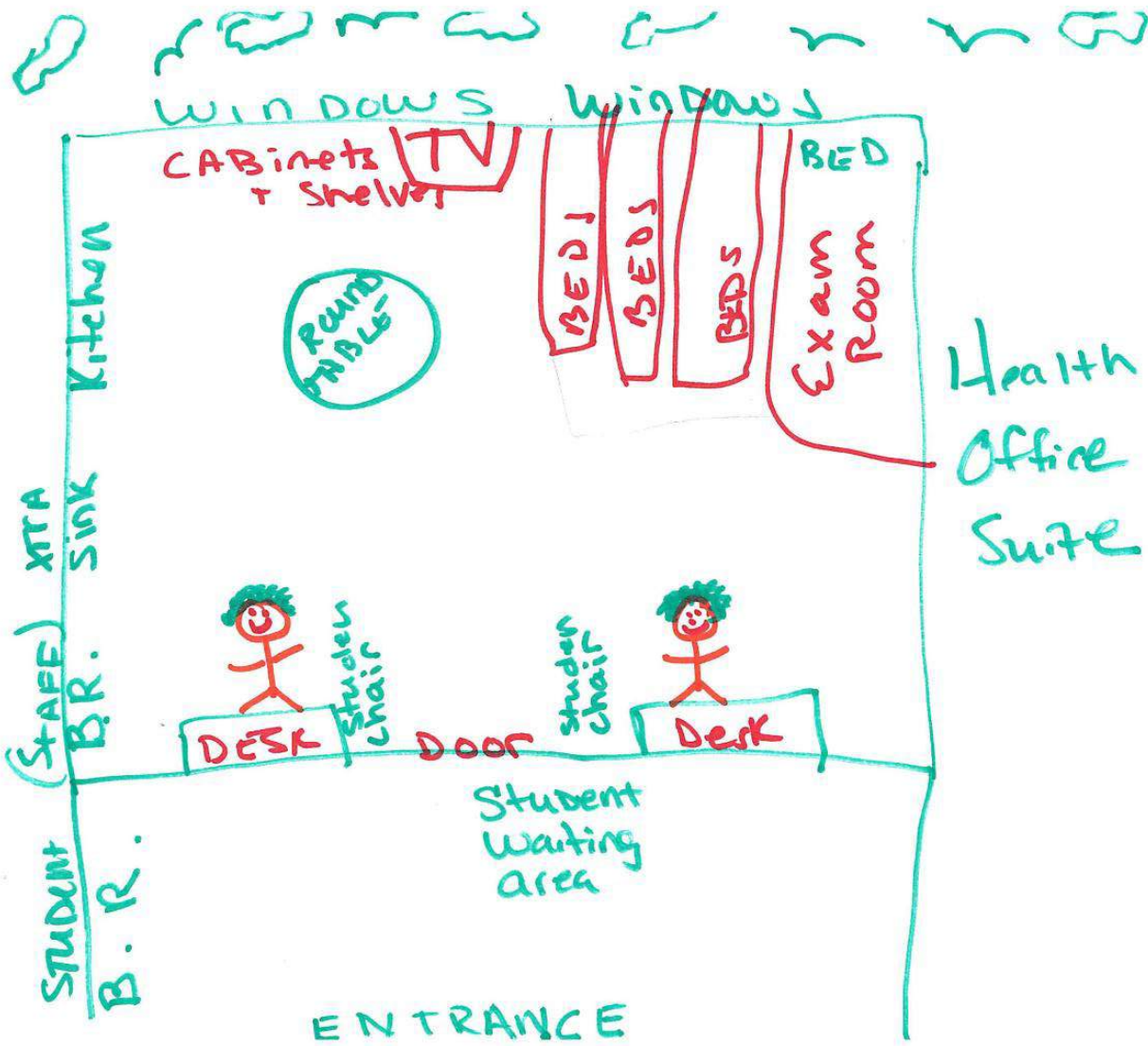
**Bubble Diagramming**

*Special Education Classroom Diagram*



**Bubble Diagramming**

Medical Suite Diagram





# **Educational Program**

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## Educational Program



# Somerset Public Schools

*All Students Achieving Excellence*

## MODULE 3: PRELIMINARY DESIGN PROGRAM

### 1.2 EDUCATION PROGRAM

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- A. Introduction
  - a. District Mission And Vision
  - b. Historical Context And Future Of Somerset
  - c. Educational Vision
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- D. School Scheduling (Teaming Concept)
- E. Current Spatial And Facility Deficiencies Which Impact Program
- F. Teaching Methodology And Structure
- G. Teacher Planning, Collaboration, Student Report, And Room Assignments
- H. Student Dining and Food Service Program
- I. Technology and Security
- J. Music
- K. Art
- L. Physical Education And Health (Wellness)
- M. Special Education
- N. Extracurricular Activities
- O. Competitive Athletic Programs
- P. Media, Vocations, And Technology
- Q. Transportation Policies
- R. Functional And Spatial Relationships And Key Adjacencies
- S. Social Emotional Needs / Space
- T. Community Use of Facilities

#### A. Introduction:

#### Somerset Public Schools Vision Statement

The Somerset Public Schools will ensure that students and teachers pursue excellence, achieve their full potential, and cherish learning as students prepare to be high school, college, career, and life ready. Somerset's core values and beliefs can be summarized by the acronym PRIDE, as noted below.

#### Perseverance:

- Our students will accept the challenge of a rigorous learning environment and work through those challenges until they experience success.

580 Whetstone Hill Road · Somerset, MA 02726 · P 508-324-3100 · [www.somersetschools.org](http://www.somersetschools.org)

Superintendent Jeffrey Schoonover

Chace Street Elementary School · North Elementary School · South Elementary School · Somerset Middle School

The Somerset Public School District is in compliance with the U.S. Civil Rights Act of 1964 and the Title IX Educational Amendments of 1972, Part 86 and Section 504 of the Rehabilitation Act of 1973. The School District provides equal employment opportunity to all individuals and does not discriminate on the basis of race, color, national origin, gender, age, sexual orientation, domicile, native language, disability, sexual orientation, religion, gender identity, or pregnancy or a pregnancy-related condition.

# Somerset Public Schools

*All Students Achieving Excellence*

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## Respect and Responsibility

- We will create a safe and supportive environment for all students and adults in which everyone feels valued and respected.
- All students will respect themselves, others, and their surroundings.
- We will create an environment in which everyone takes responsibility for their individual and collective actions.

## Innovation

- Students and adults will be innovative problem solvers and purposeful and responsible users of technology.
- Students and staff will be skilled at and value collaborative problem solving.

## Dedication to the Community

- We will help our students build character and learn respect as they become positive and caring contributors to society.

## Excellence

- We will set high expectations for all students and staff.
- Our students will become effective communicators and independent, creative, and critical thinkers.

## Historical Context and Future of Somerset

Somerset was first settled in 1677 and was officially incorporated in 1790. Located along the Taunton River and at the northern end of Mount Hope Bay, Somerset has a rich history of shipbuilding and was a leading shipping distribution point in the United States during the 19th Century. However, during the 20th Century the Town's major industry shifted to power generation, with two coal-burning power plants in town. Montaup Electric Company was founded in 1923 along the Taunton River and closed in 2010. The Brayton Point Power Station opened in 1963 at the southernmost point in town along Mount Hope Bay. Brayton Point was one of the largest producers of electricity in the northeast, but it was decommissioned in 2017. The closing of these two power plants has had a significant impact on the tax base in Somerset, with the loss of approximately \$15,000,000 annually in taxes.

Until 2011, Somerset Public Schools consisted of grades preschool through grade twelve. High school students from the town of Berkley attended Somerset High School through a special tuition agreement between the two towns. With the need to build a new high school, residents in Somerset and Berkley officially voted to create a new regional school district, Somerset Berkley Regional School District, that would house students from both communities in grades 9-12. Beginning in 2011, the Somerset Public Schools became a preschool through grade eight district. In 2014, the newly constructed Somerset Berkley Regional High School opened its doors to students.

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# Somerset Public Schools

*All Students Achieving Excellence*

In 2014, the oldest of Somerset’s four elementary schools, Wilbur Elementary, closed its doors rather than investing in numerous repairs and upgrades. Elementary students were redistricted within Somerset and consolidated into the remaining three elementary schools: South, Chace Street, and North. The 2014 closing of the Wilbur School followed the 1989 closing of the Pottersville and Village elementary schools due to declining enrollments in Somerset from its population peaks in the 1960’s. To accommodate the elementary students at the time of these elementary school closures in 1989, Somerset’s two middle schools, North Middle and South Middle, which each contained grades 5-8, were consolidated into one school. North Middle School became North Elementary School and all students in grade five were transitioned away from middle school to the elementary school, creating K-5 schools and one 6-8 middle school, which is now called Somerset Middle School (SMS).

Somerset is centrally located within Bristol County, situated immediately west of Fall River across the Taunton River. The Southeast Regional Planning Blueprint, which was published in 2018, identifies critical trends in occupational employment history and industries that are most important to the region’s economic success. Among these critical industries are healthcare and professional and technical services, which include information technology. Within our southeastern Massachusetts region, these industries are experiencing high job growth, yet they have low ratios of qualified individuals per job opening.

This Planning Blueprint identifies among the top three challenges facing the region’s business and industry over the next five years as the ability of employers to find workers with the right skills sets, the potential employees’ lack of work readiness skills, and the need for workforce training and development of entry-level employees. The vision of our high school graduate is to be prepared for faster entry into this workforce through access to high school internships, specialized training, and access to college-level courses. This preparation does not begin in high school. Rather, it starts in middle school, if not sooner. The educational programming associated with a new or updated Somerset Middle School, as described in this document, will help us achieve this vision for the ongoing and future success of Somerset graduates within our region of the state.

## **Educational Vision**

The Somerset Public Schools (District) has invested heavily in recent years to improve school safety and security as well as to modernize the curriculum to focus on Science, Technology, Engineering, the Arts, and Mathematics (STEAM). Five years ago, the District had limited and unreliable access to technology in each of our schools. Now, a robust network exists in each school, and enough devices are present that enable us to have approximately one device for every two students. Beginning in 2019, SMS distributed Chromebooks to every eighth grade student and plans to expand this in 2020 to include sixth and seventh grade students. Additionally, the District implemented technology education in recent years at the three elementary schools and hired three technology teachers. The technology program of studies at SMS has been updated to include robotics, coding, computer science, and drone technology. Furthermore, the science

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curriculum was recently updated to include research-based strategies and resources that allow students to learn science through hands-on activities and inquiry learning. We are committed to creating a relevant, hands-on, and engaging STEAM curriculum that best prepares students for high school and beyond.

The Town of Somerset has consistently and historically demonstrated enormous support for public education. As noted in the District’s vision statement above, Somerset seeks to provide a rigorous yet safe and supportive learning environment for all students. We strategically challenge ourselves and work to provide innovative, personalized learning experiences utilizing technology. We prepare students to be innovative problem-solvers, effective communicators, collaborators, and critical thinkers and questioners, while students build character and learn to become positive contributors to their community. SMS has long used the phrase *Pride and Respect* to summarize its mission. This mission is found within the District’s vision through the acronym PRIDE, which summarizes our core beliefs and values: **P**erseverance, **R**ESPECT and responsibility, **I**nnovation, **D**edication to the community, and **E**xcellence.

Through the educational visioning sessions held this fall, a successful SMS creates and celebrates community: from a community of learners within a neighborhood, team, or class to a resource utilized by the larger community of Somerset. Additionally, SMS establishes a sense of student ownership and belonging while establishing and maintaining a safe and secure facility. We value hands-on, engaging, and innovative teaching and learning strategies that extend beyond the interior classrooms walls. Lastly, at SMS and throughout the District, we focus on educating the whole child. Music and art education have been valuable components of our academic programs. Dubbed “Musictown” in 1974, Somerset has long celebrated the importance of music. Somerset is extremely proud of its music education program and the vast number of students, beginning in grade four, who participate in instrumental and performance-based music classes in addition to their general music courses. Maintaining and enhancing a fine arts program that celebrates music and art allowing for frequent student-led performances from concerts to drama productions is critical to SMS and the Town of Somerset.

## B. Grade and School Configuration

### Current:

The Somerset Public Schools is a pre-kindergarten to grade 8 school district with a present enrollment of 1,744 students. The District includes three elementary schools (Chace Street School, North Elementary, and South Elementary) and one middle school (Somerset Middle School). North Elementary School hosts the District’s preschool program, which includes a combination of half-day and full-day tuition-based classes. Each elementary school has students in grades kindergarten through grade five with all students in the district attending SMS for grades 6-8. Current enrollment by school is as follows, with class averages rounded to the nearest whole number in parentheses:

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Grade	Chace Street	North	South	SMS
K	44 (22)	65 (22)	39 (20)	--
1	60 (20)	63 (21)	41 (21)	--
2	65 (23)	64 (21)	46 (23)	--
3	64 (21)	89 (22)	48 (24)	--
4	57 (19)	70 (23)	35 (18)	--
5	53 (27)	76 (25)	52 (26)	--
6	--	--	--	221 (28)
7	--	--	--	211 (26)
8	--	--	--	218 (27)

Each of Somerset's four schools were built between 1951 and 1973, at the time when Somerset was experiencing significant growth in population. Following the closing of Wilbur School in 2014, the remaining three elementary schools absorbed the approximate 150 students and have since experienced larger class sizes and a lack of space for special education programs, small group settings, and areas for professional collaboration and meetings with families. Not only is Somerset reviewing the option of constructing or renovating a middle school consisting of grades six through eight, but we are also considering a 5-8 model to alleviate the overcrowding and lack of space that we currently face in each of our elementary schools.

During the 2018-2019 academic year, the District contracted with Colliers International to complete an elementary schools facilities conditions assessment. That assessment identified \$24.7 Million in repairs to the three existing elementary schools. This assessment did factor in any potential additions to accommodate the current and future educational needs of the District. Furthermore, during the summer of 2019, a Somerset School Committee established a subcommittee to study and make recommendations for redistricting the three elementary schools within Somerset, looking at the existing boundaries for each school's catchment area. The goal was to develop a model that allowed the district to have flexibility to move students who were traditionally districted to attend one elementary school to matriculate into another school. This effort was done simply because of overcrowding concerns in certain grade levels and allowed the District to move students into another school without having to hire additional staff. The District

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is making every conceivable effort to provide the best education to our students given our existing grade configurations and school assignments while working with the limitations imposed by the conditions and sizes of the educational facilities available in Somerset.

The school buildings have been well maintained, but many classrooms are undersized, room layouts and adjacencies are not conducive to a flexible learning programs emphasizing deeper learning strategies. The sixth-grade wing of Somerset Middle School and almost the entire space at North Elementary are open-classroom settings, which are far from conducive to active and collaborative learning. Many of our facilities simply do not fit the needs of today's educational practices.

## **Proposed:**

Somerset Middle School was originally designed as a middle school for students in grades 5-8. It operated that way for 25 years until 1989, when two aging elementary schools were closed, one of the two middle schools became an elementary school, and fifth grade students were transitioned back to elementary. When this occurred, five elementary schools were ultimately reduced to four. In 2014, the oldest elementary school was closed, resulting in the further consolidation of four elementary schools to three. Since then, the elementary schools have been at or near their enrollment capacities providing no room for growth and expansion. This is a primary reason for the studying of both a grades 5-8 model and a grades 6-8 model for Somerset Middle School. If the 5-8 model is ultimately the preferred design, Somerset Middle School would be organized by an upper school containing grades seven and eight and a lower school for grades five and six.

## **Benefits of a 5-8 middle school include:**

- Providing more consistent transitions for students as they progress through the various levels: Five years in elementary school (K-4); Four years in middle school; and four years in high school compared to the six years students currently attend elementary for and only three years at the middle level;
- The 5-8 model would also impact the three elementary schools. It would prevent the need to build any additions to South Elementary or Chace Street Elementary School because the required spaces would be found through the vacancy of the fifth grade classrooms there;
- A grade 5-8 model would allow fifth grade students more access to specialized courses, including technical education (e.g., computer science, robotics, and engineering design) and performance music such as marching band, as well as gaining access to middle school athletics and various extracurricular clubs and activities that do not exist at the elementary level; and
- Having all fifth-grade teachers in one building builds more opportunities for professional collaboration than currently exists among those grade level teachers as well as providing more opportunities for vertical collaboration among teachers in grades 5-8.

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For this reason, the proposed educational program is aligned with the 5-8 scenario, although much of the information contained herein would apply to any scenario, including 6-8.

Whether the school is 5-8 or 6-8, each neighborhood would consist of two teams: the PRIDE team and the RESPECT team. Each team would consist of four sections of students. Therefore, each grade-level neighborhood would be organized into eight sections of students with approximately 25 students per section.

## C. Class Size Policies

The Somerset Public Schools recognize that class size is an important factor in quality education, and the District does, subject to space availability, staffing, and other educational considerations, strive to maintain class sizes conducive to an effective learning environment. Prior to this year, class sizes were between 20 and 26; currently class sizes are 27-30 due to additional enrollments. Class sizes of Special Education programming are compliant with the DESE regulations; however, the number of programs that can be developed are constrained due to the facility.

## D. School Scheduling Method

### Current:

The Somerset Middle School schedule is revisited annually and adjustments are made based upon enrollment, student and programming needs, staffing levels, and contractual agreements. The student day is from 8:00 a.m. to 2:40 p.m. The master schedule consists of a 6-day rotation with seven periods a day. Six periods are 50 minutes and one period is 45 minutes.

The students have English Language Arts, Mathematics, Science, Social Studies, and Raider Time every day. Twice in a 6-day schedule students have Art, General Music, Wellness, Engineering Technology, and Physical Education. Once in a 6-day cycle students have a 50 minute Advisory class, Math Enrichment class, and Grammar Enrichment class.

Offering a variety of student support at Somerset Middle School is a priority and this block of time is designed to benefit both students and teachers. All 6th, 7th, and 8th grade students are scheduled for a 45-minute Raider Time period every day. Students use this period to seek out assistance in any of their classes when they need additional support, extra practice, clarification, or enrichment. This period is also used by their grade level teachers, guidance counselors, and administration to offer special presentations that assist or enrich students in the area of academics, social skills, test preparation, course selection, student and community leadership, visual and performing arts, and Response to Intervention (RTI) using Responsive Classroom Advisory time.

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All teachers have one prep period per day and five common planning periods per 6-day cycle. The common plan time allows teachers to collaborate with their team and grade level colleagues. Well-planned instruction and assessment is a priority of the Somerset staff, and all stakeholders benefit from the time to meet and develop the differentiated learning criteria needed to present the highest quality of education to all students in our classrooms, in all grades.

Grades 6, 7, and 8 consist of two teams of four sections each, pull out and Co-taught ELA, pull out and Co-taught Math, Co-taught Science, and Co-taught Social Studies classes. Reading and Speech consist of pull out and push in, and there are currently three sub separate classes at Somerset Middle School.

## Academic Classes for Grades 6-8

Content Area	Time on Learning per 6-day cycle	# of Faculty	Teaching Methodology
Math	318 minutes	6	<p>Whole class, small group, partners, use of technology by students and teachers.</p> <p>One to two classes at each grade level are co-taught with a special education teacher and a math teacher.</p> <p>One to two classes at each grade level are resource room math with a special education teacher</p>
ELA	318 minutes	6	<p>Whole class, small group, partners, use of technology by students and teachers.</p> <p>One to two classes at each grade level are co-taught with a special education teacher and a math teacher.</p> <p>One to two classes at each grade level are resource room ELA with a special education teacher</p>
Social Studies	318 minutes	6	<p>Whole class, small group, partners, use of technology by students and teachers.</p> <p>One to two classes at each grade level are co-taught with a special education teacher and a math teacher.</p>

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Science	318 minutes	6	Whole class, small group, partners, use of technology by students and teachers, hands on labs.  One to two classes at each grade level are co-taught with a special education teacher and a math teacher.
Engineering Technology	106 minutes	2	Whole class, small group, partners, use of technology by students and teachers, hands on projects.
Wellness	106 minutes	2	Whole class, small group, partners, use of technology by students and teachers, guest speakers, CPR certification for grade 7.
Physical Ed.	106 minutes	2	Whole class, small group, partners, limited use of technology by students and teachers, National fitness assessment, team building.
Art	106 minutes	2	Whole class, small group, partners, use of technology by students and teachers, various art projects including ceramics.
General Music	106 minutes	2	Whole class, small group, partners, use of technology by students and teachers, playing of instruments, singing, dancing.
Math Enrichment	53 minutes	1	Whole class, small group, partners, use of technology by students and teachers.
ELA Enrichment	53 minutes	1	Whole class, small group, partners, use of technology by students and teachers.
Reading	53 to 106 min.	1-2	Small group, individual, use of technology by students and teachers, testing.
Speech	53 to 106 min.	1-2	Small group, individual, use of technology by students and teachers, testing.
Instructional Strategies	53 to 265 minutes	1-5	Small group, individual, use of technology by students and teachers, social emotional strategies.
3 Sub-separate classes	All day	6	Small group, individual, use of technology by students and teachers, social emotional strategies.

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## **E. Current Spatial And Facility Deficiencies Which Impact Program:**

The Somerset Middle School, located at 1141 Brayton Avenue, was originally constructed as a 5-8 junior high school in 1964 and was expanded in 1969. It is approximately 124,900sf, currently serves grades 6-8 with a total enrollment of approximately 625 students, and is located on a 26.2-Acre site.

The middle school was constructed in the later part of an era known as the “post-war boom” and the beginning of the “impulsive period”. The “post-war boom” resulted in a significant number of school buildings constructed of single-story, flat-roofed structures enclosed in glass and metal windows and brick wall systems. Lightweight, single-story construction resulted in less expensive and easier-to-build school buildings that did not have the physical longevity of their predecessors. The “impulsive period” included the development of school buildings with experimental educational concepts, including open-space educational classrooms and open-space schools. The open-space educational classroom concept has since proven ineffective for teaching and learning. As a result of the inexpensive construction practices and “quick construction techniques”, the building’s exterior envelope includes lightweight structural steel, brick masonry construction and concrete masonry unit (CMU) backup without insulation, and single pane windows, contributing to high annual operating costs. The existing roof was replaced with a PVC membrane roof system in 2004; however, the system requires regular maintenance due to failing seams, standing water, and water infiltration. Mechanical and electrical systems are original, non-compliant, and beyond their useful life. In particular, the failing mechanical systems and the systems’ inability to maintain temperatures have had a direct effect on teaching and learning, as well as student and teacher absenteeism. There is asbestos in the building, but it is contained.

Although the 1960’s Somerset Middle School design did include some thoughtful and forward-thinking spaces (such as the auditorium with a wrap-around stage, and connecting lecture hall), the overall floor plan lacks the necessary organization and program adjacencies to support 21st Century middle school team teaching and learning. The academic areas fail to provide the necessary quantity of classrooms, special education spaces, and support space to truly formulate a complete middle school academic neighborhood or team. Teachers and administrators have worked diligently and successfully to implement teaming concepts and STEAM (Science, Technology, Engineering, Arts, and Math) integration of hands-on learning opportunities for students; however, the current building layout remains the most significant challenge in this endeavor. A modern middle school should include dedicated STEAM spaces and project labs integrated within the science and academic classroom areas in order to provide interdisciplinary instruction and hands-on learning experiences. All six existing science classrooms are below MSBA guidelines. The modern middle school environment recognizes the critical need for language instruction in an expanded global economy, but unfortunately Somerset Middle School has no such space and faces significant challenges to such instruction, as teachers transport language instruction around the building in order to find an available classroom.

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Many non-traditional spaces, including storage spaces and closet areas are utilized for instructional purposes. The art classrooms, all the sixth-grade general classrooms, and special education classrooms are located within the open-concept plan constructed in 1969. These spaces and related programs are significantly compromised due to the lack of acoustic separation and temperature fluctuations. All existing classrooms are not organized to support the kind of team teaching and interdisciplinary instruction identified within other sections herein. Special education program space is not appropriately integrated within the remaining educational space, and appropriately sized and located resource and inclusion rooms are non-existent. The Special Education program is lacking sub-separate rooms, testing and meeting spaces, pull-out and reading rooms, and a secure records room.

The gymnasium is awkwardly shaped in a circular form without any natural daylighting, and the adjacent boys' and girls' locker facilities wrap around the gymnasium in an equally awkward broad U-configuration. The boys' locker room lacks modern amenities with vintage gang-style showers and a toilet area with no doors and only half-height walls. The girls' locker room is antiquated with exposed water valve controls and inadequate temperature mix controls. The Special Education programs suffer the most, as the lack of available adaptive physical education space prohibits the integration of these programs into a mainstream physical education environment.

One of the universally accepted components to an appropriate and thriving middle school environment is teacher collaboration space. Research confirms that middle school environments that provide appropriate and dedicated space for teachers to collaborate on student challenges, instructional strategies, student needs, and interdisciplinary opportunities result in better student/teacher relationships where each student is well known and receives a customized educational experience that results in improved academic and social performance. Unfortunately, the Somerset Middle School lacks appropriate space for such collaboration and planning.

## F. Teaching Methodology And Structure

### **Current:**

English Language Arts: The ELA Department is currently using MyPerspectives (Pearson) as a curriculum resource for which a 1:1 device maximizes student access and student learning. The SMS ELA curriculum is based on the Massachusetts English Language Arts Curriculum Framework including reading, writing, language, speaking, and listening. The scope and sequence follow the path of whole group, small group, and independent learning. The Pearson program encourages students to take ownership of their learning, think independently, and work collaboratively.

Math Department: The Math Department follows the 2017 Massachusetts Mathematics Curriculum Framework. The department is piloting Reveal Math (McGraw Hill) this year, which is a rigorous integrated online program that provides experiences for students to use technology to

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model mathematics. Students are encouraged to work in small groups and to participate in class discussions to build understanding in mathematics. Classrooms should be flexible to allow for teachers to provide small group remediation as needed, and for students to work in small group and large group formations. A 1:1 device maximizes student access and student learning.

Science: The Science Department implements a hands-on, research-based curriculum using SEPUP as a resource to help promote the academic growth and success of all students. Units and lessons are aligned with the Massachusetts Science and Technology Curriculum Framework, which includes a three dimensions approach; the integration of Cross-Cutting Concepts, Science Practices, and Disciplinary Core Ideas.

Technology: The Technology Department incorporates the Massachusetts Digital Literacy and Technology & Engineering Standards into their instructional classes. Students' focus is on Manufacturing, Robotics, Engineering Design Process, as well as Computer Literacy.

Social Studies: The Social Studies curriculum aligns with the Massachusetts History and Social Science Curriculum Framework. The department uses the McGraw Hill 2019 curriculum resources (online and print) as a foundation for teaching Social Studies and Civics. In addition, the department focuses on skills that include literacy, reading, writing, research, and other student supported projects that meet the learning styles of learners within the classroom.

Each grade-level neighborhood would include an innovation lab and a common collaborative space that serves multiple purposes. This common, collaborative area would be a clearly defined neighborhood space that directly integrates into the classrooms and support areas and serves as the social and academic center of each neighborhood. The innovation lab should include provisions for project-based activity including a maker space, access to multimedia and presentation equipment, and arts integration. It will allow teams the ability to develop large physical projects in an environment where it is critical to have appropriate space to spread out without the need to break down and store projects each period. It will allow small groups to create multimedia projects that are part of the academic instruction being developed in the classrooms, with a group of students capturing and preparing a video component of their project while their peers work in the classroom or small resource rooms on other aspects of the same project. This innovation space would be an integral component of our STEAM-focused curriculum, as it allows students within the neighborhood to work actively on projects that include an integrated visual design component with technology, without the restriction of having to leave their neighborhood in order to have access to the necessary tools.

The vision for teaching and learning utilizes a strategic and diverse repertoire of research-based instructional practices in all classrooms that are collaborative and informed by student learning data and feedback. Instruction must respond to students when they need additional support, by

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acknowledging a shared responsibility to address and support the needs of struggling students, collaboratively diagnosing underlying issues, and prescribing and implementing appropriate intervention strategies as a core component of the regular education program. Additionally, teaching and learning practices will develop and nurture a culture for all members of the community, as well as promote and expect continuous learning opportunities that embrace and respect discourse as a pathway to growth. Somerset Middle School has been effectively implementing Responsive Classroom strategies to address the growing social and emotional needs of students.

As evidenced by the educational visioning sessions, teaching and learning strategies will continue to foster integration and implementation of the required core knowledge along with the skills necessary for future success in high school, college, and careers. These identified skills include self-directed learning, empathy and caring, effective communication, critical thinking and problem-solving, leadership and collaboration, and creativity and risk-taking.

## **G. Teacher Planning, Collaboration, Student Support, And Room Assignments**

### **Current:**

Current practices for teacher planning and collaboration include a highly collaborative approach across disciplines, grade levels, related arts, and student support staff which is essential to our teaming structure. Somerset Middle School currently has two guidance counselors (one full time, one 0.6 full time equivalent), one adjustment counselor, one school psychologist, one reading specialist, one speech pathologist, one school nurse, six special education teachers, and three substantially separate special education teachers. Guidance staff are available to students during the school day for academics, social and emotional concerns, and testing by the school psychologist.

The teachers in grade 6 have a small room with a copy machine, refrigerator, sink, and two adult restrooms, but it only has room for one small table that seats six people. The teachers must meet for team and content planning in a classroom that is not being used and usually eat lunch in their classrooms because there is not enough room to sit in the copy room. There is one shared conference room in the building that is shared with administration that can be used for conferences and professional development. This is exactly the same for grade 7 teachers and grade 8. Grade 8 teachers also use the grade 7 adult restrooms and have no space of their own. The 14 paraprofessionals also use the grade 6 and 7 adult restrooms and small space, or they look for an empty classroom in which to eat. These faculty copy rooms have sinks that do not have potable water. The staff work rooms do not have climate control and therefore the copy machines often are not functional during periods of high humidity. There are 84 adults in the building.

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The Guidance Office is centrally located in the building; however, it has no natural sunlight along with the Nurse's Office, which is one hallway away. The speech room is located in the grade 6 wing in a converted storage room, also with no natural light. The reading room is in a converted exit hallway that is overcrowded. There is only one conference room for all administration and guidance meetings, and there are no collaborative work areas or lunchroom.

Students and staff can access the Nurse anytime during the school day; however, parents do not have close or easy access due to the central location of the health office. The health office consists of one small open room with only one entrance and exit, one bathroom, and two sinks. There is a curtain divider to separate the two beds from the office and a non-confidential waiting area within the one room. There are approximately 4,000 documented student visits to the health office yearly.

Somerset has a 44-minute student support block called Raider Time every day for grades 6, 7, and 8. A Homework Club is available to all students Monday through Thursday after school. Guidance Counselors are essential components to Instructional Leadership teams, IEP team meetings, scheduling, transitioning new students, and parent communication. Through our student information system (ASPEN), an open line of communication between students, parents, and teachers relative to attendance, discipline, assignments, and grades are available. Team planning, content planning, and co-teaching planning is essential to Somerset Middle School.

## **Proposed:**

Professional collaboration relies on a purposeful use of technology combined with physical spaces to meet and work with in-person. Somerset Middle School should provide meeting and work areas in each grade-level neighborhood for teachers to prepare, plan, and collaborate. This area is critical to the successful implementation of the co-teaching and teaming model that exists at Somerset Middle School. This space should be integrated into the neighborhoods such that teachers working within it can provide an additional layer of oversight and observation of students who may be working within the neighborhood commons or even the individual resource rooms. These collaboration and meeting spaces should include large wall-mounted monitors for presentation and collaboration purposes. Teacher dining areas should be organized to encourage collaboration and work while simultaneously providing the necessary dining opportunities. Teachers are professional workers and should have these collaborative and networking spaces that are typically found in the private sector for equally professional employees.

The PRIDE and RESPECT grade-level teams, which include special education staff and other support personnel, will be located in the grade-level neighborhoods around meeting areas, planning rooms, and teacher offices. These neighborhood areas will provide a visible and flexible learning environment for all grade-level teams. These neighborhoods are intended to provide students with a better sense of self and to promote confidence and security, as they are one of

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several strategies employed to break down the overall scale of the school and give students a more in-depth relationship with the teachers and their fellow students.

All neighborhood classrooms should be equipped with adequate windows to allow for proper natural lighting and should also provide as much transparency (glass) as possible into surrounding spaces to increase the opportunities for supervision of students in these spaces. Neighborhoods and the related classroom and support spaces should include ample storage space, movable furniture, and the ability to create flexible grouping. Each classroom should include ample access to electricity, whiteboards, and writable surfaces (walls and some desktops), as students and teachers are encouraged to write, collaborate, and explore beyond the boundaries of a single whiteboard or two. Neighborhood space will allow for the creation and delivery of student presentations, along with visual and physical access to neighborhood classrooms.

A student support staff suite of offices will include space for the guidance counselors, school adjustment counselors, the school psychologist, and other related service providers including speech and occupational therapy. The main administrative office will be located at the building entrance as a primary receiving, control, and security point, but will only include the administrative offices necessary to support this function. The location of the health office will likely be in or near either of these two areas (student support and main office) but will be dependent on the final layout of the building to ensure ease of access while providing necessary privacy. The health office should be located along the perimeter of the building so that students can be transported immediately away by first responders from the building without having to pass through the hallways of the school.

## H. Student Dining and Food Service Program

### Current:

The Somerset Public Schools District promotes students' physical, emotional, and social well-being. This includes good nutrition, as outlined in the District's wellness policy. It is important for the cafeteria environment to provide tasty and nutritional offerings to students and staff in a café setting that is pleasant, friendly, and warm.

Lunch currently consists of three separate 25-minute lunches separated by grade level with 210 to 230 students in each lunch. There are two serving areas for students and staff who purchase food/drink. Most cafeteria tables seat ten students each with the four handicap accessible tables possessing six seats each plus room for two wheelchairs. Lunchtime offers students the opportunity to socialize and decompress with classmates. The cafeteria is currently centrally located near the seventh and eighth grade sections of the school. It has natural lighting provided by a courtyard separating the cafeteria from the library/media center. The current kitchen facilities are adequate after the District made several recent upgrades in equipment, including two new freezers and a

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steam oven. Presently, Somerset Middle School serves about 50 breakfast meals and over 350 lunches per day to approximately 60% of the student population.

## **Proposed:**

The student dining area would be located and designed in a manner that promotes all-day student use in lieu of being isolated and reserved for breakfast or lunch only. We envision the space being used for team meetings, small group assemblies and cultural events, student demonstration areas, and places to display student work. The student dining area should include presentation opportunities and indoor/outdoor connections. Consideration should be given to creating these areas as flexible space with multi-use potential, locating them close enough to the academic neighborhoods to promote their high utilization while taking precautions to ensure that their functions do not compromise security or the use of surrounding areas. The design and layout of the student dining center should promote ease of meal distribution from the kitchen and should be designed to avoid bottlenecking students and ensure that they are able to purchase their meals and be seated within a reasonable and efficient timeframe. This design would include several food service stations, each with its own point-of-sale location.

Student involvement and nutritional status could be further strengthened by the presence of a student and staff tended garden with direct physical and visual links to the kitchen and dining areas, as well as a greenhouse providing year-round fresh food production. The greenhouse would offer active learning opportunities through the science program of study as well as offer life-skills opportunities for students in select special education programs. The concept of using student-grown food fosters a positive and comprehensive experience about healthy eating. The greenhouse would be integrated into the desired requirement for outdoor learning and indoor/outdoor connections and could become an integral part of the exterior site design. This immediate source of food production would serve to strengthen the link between healthy fresh food production and consumption in support of the district wellness policy. It could also provide an added opportunity for community and business connections.

## **I. Technology and Security**

### **Current Technology:**

A few short years ago, Somerset Middle School had limited devices for students and an unreliable network to access the Internet. Through upgrades in servers, wireless access points, and wiring, the network, while still far from ideal, is more reliable than ever. Beginning this school year, each eighth-grade student received a Chromebook that can be transported to and from school, while there are enough devices for the remaining two grades to have roughly one device for every two students. SMS plans to further expand the personalized learning environment by issuing new Chromebooks to the remaining students in grades six and seven in 2020-2021. Having these devices in student hands allows for more collaboration between students and staff, more efficient

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means to conduct research and analyze information, and to communicate in new, non-traditional ways.

Somerset Middle School still has significant limitations when integrating technology into the classroom. SMS does not have any wall-mounted projectors or interactive monitors. All digital projectors are on carts and project onto either a whiteboard or a pull-down screen. There is limited access to electricity in classrooms. This is particularly true within the open-classroom sixth grade wing that has most outlets embedded in the floor and are no longer active due to sparking and fire-safety concerns.

Somerset Middle School is the main feeder school to Somerset Berkley Regional High School (SBRHS), which opened in 2014. SBRHS is state of the art high school, offering students a myriad of personalized learning opportunities utilizing technology. While the District has made great strides to improve student access to technology at Somerset Middle School, the school still has significant limitations in this area, which prevents students from having a seamless learning transition to the technology-rich high school.

## **Proposed Technology:**

Somerset's technology plan is to create a robust environment that allows students to engage in deeper learning activities that incorporate the skills needed to be successful in high school, college, and careers. Somerset Middle School will be implementing a 1:1 environment in grades 6 through 7 beginning in 2020-2021 to build upon the 1:1 program that currently exists in grade 8. Teachers at Somerset Middle School have been engaged in high levels of professional development related to educational technology integration in order to produce high levels of student achievement. With each student having their own school-issued Chromebook, teachers utilize digital tools and resources to deliver the curriculum and, when necessary, textbooks are used as support material purchased as classroom sets and not for every student.

As part of the Somerset Middle School visioning sessions, the faculty and staff identified self-directed learning, effective communication, critical thinking and problem solving, and collaboration as some of the most impactful student learning goals. A student's ability to acquire and demonstrate his/her application of these highly important skills is contingent on their ability to access and use technology. The necessary technology-infused teaching and learning environment is not about the device, but how teachers and students use the device.

A typical classroom will be equipped with teacher and student technology that allows for ease of technology integration, including large interactive monitors accessible by anyone in the class or ceiling-mounted projectors. Classrooms will also have an audio system with speakers installed throughout the classroom, and the teacher will have access to wireless microphones for the hearing impaired. Each classroom should have ample access to electricity including charging stations for student devices. All of this is possible only when a robust and reliable network exists.

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Besides the standard instructional technology that will exist in each classroom, there will be special and unique technological resources that students will use to create and innovate in project-based learning situations. This includes access to 3D printing, green screens, and television production/audio-visual equipment. Students will also have access to virtual reality or augmented reality experiences to further explore and investigate in multiple academic programs and disciplines. Access to technology by teachers must also extend beyond the classroom. Professional collaboration areas will contain interactive monitors for collaboration and communication.

## **Current Security:**

Providing a safe and secure environment is of the utmost importance within the Somerset Public Schools. Students who feel safe and secure in their environment will be better prepared to take advantage of the educational opportunities presented by the school's staff.

In 2018, the District made significant security improvements to all four schools. At Somerset Middle School, this included relocating the main office from a central location to a classroom with an exterior wall near the main entrance of the school. Previously, after visitors were allowed into the building through a secured door, they had access to several hallways and would pass by several classes before being checked in at the main office. Now, visitors are allowed to enter the school after a quick screening process that includes audio and visual communications. Visitors are allowed access into a secured vestibule at which time they present an identification, are matched against a federal database, and then are printed a visitor's pass that they must wear for their duration. Upon completing these steps, the visitor is then allowed through the second set of locked doors. Included in the 2018 security upgrades was the installation of keyless entry locations for faculty and staff, who were issued identification badges that grant them access to the building, which is limited to certain days and timeframes.

Somerset Middle School also has had video surveillance equipment for a number of years, being one of the first middle schools in our region to have video surveillance equipment. However, advances in video technology have made this equipment nearly obsolete with lower quality images from what most people are accustomed to and with 48 internal cameras and only three exterior cameras.

Each classroom has a means of communication to the office through an internal phone system. Teachers cannot communicate room to room, only directly to the office. The current intercom and phone systems are old and will require upgrading or replacing in the near future. The sixth-grade wing of the building was designed as an open classroom area. There are very few interior walls, with the only division between adjacent classrooms being six-foot-tall storage units.

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## **Proposed Security:**

Safety and security at the school are together one of the most critical aspects of operating a successful school environment. If students do not feel safe socially and emotionally, secure, and confident, they will not learn to their fullest potential. However, providing this sense of safety and security without including overly-restrictive physical barriers is also important. Students must be and feel safe without restricting the desired open and transparent connections within and between the neighborhoods and learning areas.

Safety and security start upon entry to the school grounds from Brayton Avenue and Read Street. It is important to provide vehicles and visitors to Somerset Middle School, including school buses, teachers and staff, and parents, with distinct drop-off, pick-up, and parking locations. This will ensure for efficient, timely, and safe arrival and dismissal procedures each day. Upon arrival to Somerset Middle School, a clear approach for students and visitors that promotes supervision and observation at the point of entry will be important while providing natural barriers to vehicular traffic.

Somerset Middle School will continue to utilize and enhance existing security measures without impacting the building's physical organization or appearance as an inviting and open learning environment for students, teachers, parents, and visitors. Passive, natural obstructions outside main entrances will be used to prevent vehicles from getting too close to or impacting the school. Having exterior windows on the ground level of the building that are reinforced and/or are designed to be shatter-resistant is also critically important to the security of the school. For use during a lockdown event, Somerset Middle School would like to install security measures for the windows that separate classrooms from the hallways. This might include using privacy glass or other automatic means to quickly prevent someone in a hallway from viewing into a classroom.

It is essential to have a video surveillance system that includes cameras at locations along the exterior of the building, in the parking lots, hallways, stairwells, the administrative area, in select areas around the school, and at the road entrances to the property.

All exterior doors must be lockable, with those located at main entrance locations to have the keyless entry access via identification badges. A single main entry for visitors that includes a double-entry system is essential to control who enters the school. Video surveillance located at the main entrance and at select locations around the exterior perimeter of the building will allow the main office, the School Resource Officer, and the Somerset Police Department to monitor exterior activity as it currently exists. We will maintain our visitor check-in procedures that includes a check against a federal sex offender database along with the printing of a visitor's badge. Panic buttons, which can trigger a lockdown event, will likely be located in select areas around the school. The school will be able to be secure during after school hours when community events take place in the gymnasium or other areas used for community gatherings. This would occur

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through the use of hallway doors that can be locked from one side, preventing access throughout the school.

## **J. Music**

### **Current:**

There are two general music teachers who each teach half of the 654 students twice in a six-day cycle. Additionally, Somerset Middle School has exceptional performing instrumental and vocal music programs that consist of a grade 6 band, grade 7 & 8 band, grade 6 chorus, grade 7 & 8 chorus, grade 6 strings (orchestra), grade 7 & 8 strings (orchestra), jazz band, select strings, select chorus, and an annual drama production. We host a winter and spring concert for grade 6 students and, on separate evenings, a winter and spring grade 7 & 8 concert, two to four end of year performances, and a two-night drama production, all of which are attended by 300 to 600 family members, friends, and community members. Many of the performing music groups perform for various community events including local nursing homes, shopping areas, ceremonies, and parades.

Performing groups rehearse two to three times in a six-day cycle during Raider Time. There are more than 200 students participating in one or more of the performing groups. Appropriate and adequate space for these programs is a necessity. Currently, there are no professional work areas. There are two general music classrooms and an auditorium that is used almost every period, as well as before and after school.

The Town of Somerset has an active and supportive “Friends of Music” community organization. Through our long-standing celebration of music in our schools, Somerset has been known as “Musictown” since 1974.

The music curriculum is aligned with the 1999 Massachusetts Arts Curriculum Framework and was created collaboratively by our teachers. The last three years, teachers have been working to update music lessons that incorporate the National Core Arts Anchor Standards, the basis of the newly revised Massachusetts Curriculum Standards released in the summer of 2019. We plan to redesign our SMS music curriculum beginning in 2019 in alignment with the newly released standards. Rollout of those standards has begun this fall including Professional Development shared on November 21, 2019.

### **Proposed:**

The Music Education Program at Somerset Middle School is a vital component of the total education a student receives. Its integration into a “STEAM conscious” curriculum, which recognizes the value of the arts within science, technology, math, and engineering, provides a

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broader learning environment where students with varying learning styles and strengths can be engaged and energized. Through the study of music, all students develop knowledge and skills that prepare them to experience the power of music in human existence. Students discover music as a unique form of communication and as a means of self-expression not afforded by any other discipline. They learn of the universal role of music in the transmission of culture and the chronicling of history. The study of music gives children a broadened world vision and an appreciation of other points of view. As a performing art, music builds self-discipline and promotes self-esteem in ways that are not inherent in other curricular offerings. Because of the ordered nature of the elements of music, students learn to think with increased complexity; because of the creative potential in music, they learn to think in divergent ways.

Music benefits the overall learning process of every child. Research suggests that more areas of the brain become active when children engage in playing music. Program effectiveness is determined through collection and interpretation of data, which shows continual improvement in:

- The number of students in advanced courses
- The number of students who qualify for after-school and Gifted and Talented ensembles
- Participation and achievement in festivals and adjudications

The music program can foster and reinforce the four C's (Critical Thinking, Communication, Collaboration, and Creativity) by providing opportunities in four broad areas:

## **Creativity:**

- Imagine – generate musical ideas for various purposes and contexts.
- Plan and Make – select and develop musical ideas for defined purposes and contexts.
- Evaluate and Refine selected musical ideas to create musical work that meets appropriate criteria.
- Present creative musical work that conveys intent, demonstrates craftsmanship, and exhibits originality.

## **Performance:**

- Select varied musical works to present based on interest, knowledge, technical skill, and context. Analyze the structure and context of varied musical works and their implications for performance.
- Interpret – develop personal interpretations that consider creators' intent.
- Rehearse, evaluate, and refine personal and ensemble performances, individually or in collaboration with others.

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- Perform expressively with appropriate interpretation and technical accuracy, and in a manner appropriate to the audience and context.

## **Response:**

Select music appropriate for a specific purpose or context.

- Analyze how the structure and context of varied musical works inform the response.
- Support interpretations of musical works that reflect creators'/performers' expressive intent. Support evaluations of musical works and performances based on analysis, interpretation, and established criteria.

## **Connections:**

- Synthesize and relate knowledge and personal experiences to make music.
- Relate musical ideas and works to varied contexts and daily life to deepen understanding.

Each of the project labs should include opportunities for the exploration of music (not necessarily in the traditional sense of vocal and stage performance, as there will be specialized program areas within the building such as the auditorium for this purpose). The project lab should allow for exploring the incorporation of music into projects, presentations, exhibits, engineering, and discovery. For example, a project or presentation may require music to reinforce a particular idea, solicit a particular audience response, or invoke a specific mood or tone. Each space should also be flexible enough to serve as an ad-hoc MIDI (Musical Instrument Digital Interface) lab, allowing students to use technology to integrate keyboards, electronic musical devices, composition software, projection, and printing as a means of communication and exploration.

The proposed building should also include a dedicated music space which provides students the opportunity to explore and master each of the discipline-specific standards. This dedicated space should include instrument areas, visuals, music technology space, secure storage, teacher work area, and movement space. Students can be allowed to develop in a specialized environment working to compose, play instruments, move, and critique within a lesson to deepen their understanding. Students of differing abilities and understandings can learn using multiple instruments and supports. Students excelling in a particular area can expand and extend their learning through composition, conducting, or critique. A music classroom in addition to a choral stage with risers (auditorium stage) gives the teacher many more tools to reach students and allows such to occur with a more controlled environment. This music room should be located near the performance space (auditorium) to allow for smooth transitions from independent growth to ensembles skills development. Consideration should also be given to possible indoor/outdoor connections which may provide opportunities for outdoor performances as described as part of the guiding design principles. When students can play or sing together, they learn social and emotional

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skills that transfer out of the music classroom. When a classroom is designed thoughtfully, all students benefit from greater understanding and skills development.

An auditorium with appropriate acoustics that will hold a minimum of 600 people is necessary. The stage constructed of wood will be large enough to accommodate at least 50 musicians as well as percussion equipment for 125 choral music participants. The stage area should include state-of-the-art curtains, lighting, sound, recording, and video equipment. Ideally this space will support full multimedia presentations with a screen that lowers from the ceiling and the ability to project from connected devices. The space would lend itself to professional development and distance learning in addition to providing students the opportunity to attend professional presentations or performances. As mentioned previously, the music room should be attached to the auditorium in a way that provides a strong connection to the auditorium house or stage. The chorus program will utilize the stage as a practice and performance venue from time-to-time but will utilize the dedicated music room as an efficient way to obtain the much-needed specialized instruction area. Creating versatile musical practice and performance space allows Somerset Middle School to produce school and community programs, and feed Somerset Berkley Regional High School's award winning band, string, and choral programs.

## **K. Art**

### **Current:**

There are two art teachers who each instruct half of the 654 students twice in a six-day cycle. Instruction takes place in one classroom space located in the open classroom wing of the school. These two classrooms are separated by storage cupboards on wheels. The age, condition, layout, and physical condition of this space will need attention within a new design. The art curriculum consists of many art mediums including drawing, painting, mural work, ceramics including a kiln, ceiling tiles, and photography which are displayed in art exhibit areas, and areas to showcase student work. Student work is featured in a 6th Grade Art Show, 7th / 8th Grade Art Show, and an Art Spectrum Showing which is held each spring in the art gallery at Somerset Berkley Regional High School. Student artwork is also on display on the ceiling tiles of the Somerset Middle School cafeteria.

The visual art curriculum is aligned with the 1999 Massachusetts Arts Curriculum Framework and was created collaboratively by our teachers. The last three years, teachers have been working to update visual arts lessons that incorporate the National Core Arts Anchor Standards, the basis of the newly revised Massachusetts Curriculum Standards released in the summer of 2019. We plan to redesign our SMS visual arts curriculum beginning in 2019 in alignment with the newly released standards. Rollout of those standards has begun this fall including Professional Development shared on November 21, 2019.

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## Proposed:

One of the priority goals established as part of the visioning sessions was the continued support for STEAM within the Somerset Public Schools, specifically including the integration of the Arts, both visual and performing. These Arts foster creativity, providing one of the primary components of the four C's (Critical Thinking, Communication, Collaboration, and Creativity). In the case of the visual arts, students must have opportunities to integrate their creativity into hands-on project-based learning and investigation that will be occurring in the Project Lab. Each such space within the academic neighborhoods should include all of the necessary support amenities to allow it to serve as a sort of satellite studio for the execution of painting, assembly, graphic design, and the numerous arrays of visual arts activities that the students will have at their disposal. These functional amenities will include sinks, material storage, worktables, etc. The goal is not to turn the Project Lab into an art room, but to allow students to execute skills they are fostering in the specialized art room as part of their daily exploration and discovery in other disciplines. Additionally, the school should have a primary and specialized art classroom which becomes the hub of visual art instruction but also remains in close proximity to the academic neighborhoods. In order for this specialized art classroom to serve the entire school, as well as the individual academic neighborhood, it should meet the following criteria:

- Be in close proximity to the other Expressive Arts classrooms and integrate into the academic neighborhoods, possibly integrating one classroom into the 5/6 area and one classroom into the 7/8 area.
- Art room on the ground floor with access to an outdoor space, if practical.
- Art room equipped with good natural and artificial lighting (including track lighting for spotting still-lives), cleanable surfaces, plenty of table space, and flexible furniture configuration.
- Easy to clean flooring.
- Increased built-in storage for 2D, 3D projects, and resource materials.
- Multiple tack display boards throughout the room and around the school for displaying resource materials and student work.
- State of the art technology, including, but not limited to: electrical outlets in the walls, a mounted projector, surround sound, high capacity color printer, scanner, and at least two computer stations for students.
- Large storage room separate from the classroom that includes an assortment of utility cabinets, flat files, racks, and tables as well as built-in storage.
- Space for two kilns and a ventilation system.
- At least two large stainless-steel industrial sinks with backsplashes, sediment traps, and faucets that swivel.
- Space for storage of larger art furniture (i.e., multiple pottery wheels, light table, etc.).
- A dedicated kiln room.

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The Visual Arts also maintains a strong connection to media and video production, a program which is likely to have physical existence within the library media center function but be supported by the Art educators. For this reason, a strong connection to the media center and other graphic arts programs and components should be considered as part of the proposed new facility design. This graphic/media/video production space should include the following:

- A dedicated technology area with video projection and surround sound
- 20 Chromebook laptops or appropriate mobile devices
- 20 digital cameras
- Enough electrical outlets for charging devices
- At least two high capacity color printers
- At least four scanners
- At least one large format printer
- 3D printer
- Photo/video editing and 3D design software

## L. Physical Education And Wellness (Health)

### Current:

There are currently two physical education and two wellness teachers, with instruction taking place in the gymnasium and two health classrooms.

Our physical education program includes content that will allow students to experience progressive levels of achievement toward standards. Not only will students achieve competence in a variety of movement activities, but they also will understand the conceptual basis and principles that contribute to effective movement and fitness. Our goal is to ensure that students fully recognize and understand the significance of physical activity in maintaining a healthy lifestyle. They also should have developed the skills, knowledge, interest, and desire to participate in meaningful activity for a lifetime. We create activity experiences that develop personal and social behaviors consistent with responsible behavior in physical activity and in society. This includes an understanding of conflict resolution, the importance of rules and ethical behavior, and positive social interaction required in physical activity settings. The Somerset Middle School program also focuses on cross-curricular connections with science, mathematics, social studies, civics, dance, sports, and music; all in an effort to expand students' understanding and appreciation of physical education.

The existing Somerset Middle School building provides space that is inadequate for the safe

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delivery of physical education programs. The gymnasium has a partially functionable subdivider (parts are no longer available), the floor is dangerous for our students due to water damage, and the locker rooms are essentially unused. The locker rooms are on each side of the gymnasium; girls have changing stalls, and boys have an open area.

The gymnasium is not handicap accessible and is difficult for the teachers and students in adaptive PE or physical therapy to be successful. As indicated in the special education summary, there are no available spaces for the delivery of adaptive physical education and the incorporation of required occupational therapy and physical therapy spaces. Existing gymnasium space is too crowded and over-scheduled to incorporate adaptive PE, and there is insufficient space to integrate some OT/PT activities into mainstream physical education courses.

The two wellness (health) classrooms are large enough; however, the functionality of the rooms is limited.

## **Proposed:**

Physical education is a component of the curriculum that is designed to educate all students, from the physically and/or mentally gifted to the physically and/or mentally challenged. A developmentally and instructionally appropriate physical education program promotes a physically active lifestyle. It accommodates a variety of individual differences, such as: cultural identity; previous movement experiences; fitness and skill levels; and intellectual, physical, and social/emotional maturity. Appropriate instruction in physical education incorporates best practices derived from both research and experience for teaching in ways that facilitate success for all students. Providing a safe and inclusive learning environment allows all students to experience positive, challenging, and enjoyable physical activities while learning skills and developing an understanding of the benefits and importance of physical activity. In conjunction with these activity experiences, students develop a positive self-image and social skills that will provide personal competence in work and leisure situations.

For purposes of physical education and activity, the newly proposed 5-8 school will essentially operate as two independent student populations: a 5/6 population of approximately 215 pupils, and a 7/8 population of approximately 215 pupils. In order to accommodate two distinct groups, a full-size gymnasium which can be subdivided into multiple teaching stations will be required. The proposed program offerings for adaptive PE and OT/PT require that consideration be given to further subdividing one half of the gymnasium into two areas. If possible, indoor walking space should be provided on the perimeter of the gymnasium to accommodate adaptive programs that run simultaneously to non-adaptive programs.

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Some specific program areas and amenities include:

- Full-size subdividable gymnasium space (3 areas)
- Mat hoists to allow for the delivery of stretching, yoga, dance, etc.
- Dedicated health classroom with close proximity to the gymnasium as an activity lab
- Men's and women's PE office and storage space
- Health storage space to accommodate support materials
- Changing stalls in both locker rooms
- Outdoor walk/jog and fitness trail
- Outdoor playfields

## M. Special Education

### Current:

The special education office/conference area is one relatively small room with no natural lighting, no storage for special education official records, and is not large enough for team meetings consisting of eight or more people.

There are currently three sub-separate programs in classrooms that are not appropriate spaces for the needs of the students. For example: inappropriate safe space, no restrooms connected to the rooms or nearby, not handicapped accessible, and lack of kitchen/laundry area for life skills.

We currently have 205-235 IEP In-House Team Meetings annually in the special education office/conference room which is located in the center of the building. This is a safety concern when outsiders are walking through the building to attend a meeting.

There is no service delivery space for Sp/L, OT, PT. Grade 6 resource room programs are in open spaces with no walls. This is difficult for all students yet especially difficult for students with attention disorders. We currently have 107 IEP students in house and 45 students with a 504.

We also have three classrooms used by South Coast Collaborative of which their students also push into Somerset Middle School general education classes. This year there are 11 students from SCC attending general education classes ranging from science, technology, art, PE, and music. During the 2018-19 year there were three students, 2017-18 eleven students, and 2016-17 eight students.

We are in our second year of a unified sports team with little space to meet and practice.

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## Proposed:

The proposed building project will afford the special education program to be an integral part of the school community and be fully integrated into the academic neighborhoods. Ample classroom space is anticipated as follows:

### 5-8 Middle School Model

- Four (4) Learning Center Spaces (Resource Rooms)
- Eight (8) adequately equipped sub-separate spaces with bathrooms and kitchen areas (Self-contained SPED)
- Eight (8) Speech/Testing Rooms
- Four (4) Small Group Reading Rooms
- One (1) Occupational/Physical Therapy Room (could be near gymnasium)

### 6-8 Middle School Model

- Three (3) Learning Center Spaces (Resource Rooms)
- Six (6) adequately equipped sub-separate spaces with bathrooms and kitchen areas (Self-contained SPED)
- Six (6) Speech/Testing Rooms
- Three (3) Small Group Reading Rooms
- One (1) Occupational/Physical Therapy Room

In addition, meeting/conference space, de-escalation space, and adaptive PE/occupational therapy space will be provided in order to best meet the educational needs of all students. Where possible, this program should be delivered within the same space utilized by all students. In instances where a specialized space is required for Occupational and Physical Therapy, this motor skills room should be adequate in size and would be similar to a half-size classroom; accommodating both gross and fine motor activities taught simultaneously. The IEP needs for students often recommend specialized motor equipment. The motor room should also allow space for gross motor activities, as well as individual and/or small group therapy sessions. There would also need to be equipment for the children, including a large floor mat, balance beam, a swing, and a ball pit, as well as ample room for gross motor movement. Sensory motor activities and/or fine motor work would require a space for up to two tables and up to eight student chairs. If possible, one of the walls should be mirrored to allow students to model and demonstrate their skills. This design will afford more opportunities for students and staff to work horizontally and vertically, and to incorporate interdisciplinary ways to fully integrate special needs programming, while having the capacity to expand current program and develop new programming as populations change and increase.

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One of the goals of integrating the special education classrooms into the academic neighborhoods is to also give these students opportunities for hands-on project instruction at a pace which is appropriate to their developmental needs and skill set. By allotting a small amount of space to the special education program (SPED Project Applications) within the project labs, the goal would be to ensure that there is sufficient area within the project lab to allow these students to work either independently or as part of the general education group, with sufficient space to accommodate their specialized needs.

The Somerset Middle School will continue to support a full continuum of services for students through 8th grade. The implementation of a comprehensive interdisciplinary model will allow students to access the general curriculum in classes taught by both a general education content area teacher and a special education teacher. Self-contained programs will be strategically located in areas of the building to best support student access. All special education programs need to be located close enough to content and elective general education programming so that inclusive opportunities can be realized when possible. Programs for students with severe cognitive and communication disabilities will have a newly designed daily living support area to include kitchen and laundry within a semi-private space with a designated de-escalation area to support a more protected and dignified learning space.

Professional office and testing spaces will be designated for related service providers in the areas of: Speech and Language Pathologists, Occupational Therapists, Physical Therapists, Behavior Specialists, Vision and Hearing Specialists, Reading Specialists, Adaptive Physical Education, School Adjustment Counselors, School Psychologist, etc., as well as for the SPED Director.

The new middle school will include many smaller meeting rooms (designated as “speech/testing” within the proposed space summary) for individual and small group tutorials, outside therapists, and specialists. These rooms may be used for regular teacher/tutor meetings and for small group testing environments and will be fully immersed within the academic neighborhoods. Along with special education teachers, para-educators and tutors will have shared space in an office with computer access for storing materials, etc.

Lastly, critical to the success of special education programs and related service providers is the ability to observe students in their school environment. Consideration to the structure of learning spaces will provide opportunities for parents, teachers, and consultants who work closely and carefully with the special education population to observe and learn from one another.

## **N. Extra Curricular Activities**

### **Current:**

Many Somerset Middle School students are on school grounds well beyond the official school day for various extracurricular activities. These activities include music, performance, athletics,

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academic extensions, tutoring, and numerous extracurricular activities. Many students study after school as they await upcoming practices, performances, or activities that involve them or their friends. The school also becomes a safe haven for spending time in social and recreational activities. Providing appropriate and safe indoor and outdoor spaces for such activities is a key component of a successful Somerset Middle School environment. The following is a summary of the programs offered before and after school, covering a wide variety of academic and enrichment programs.

- Homework Club
- Community Service Club
- Green Team
- Student Council
- Intramural Sports
- Peer Leadership
- Book Club
- Yearbook Club
- Math Team
- Newspaper Club
- Technology Engineering (ROV)
- Tutoring and mentoring made available through community service with former students
- Drama Coach
- Science Fair
- Washington DC
- Grade 6 Band
- Grade 7 & 8 Band
- Jazz Band
- Grade 6 Chorus
- Grade 7 & 8 Chorus
- Select Chorus
- Grade 6 Strings
- Grade 7 & 8 Strings
- Select Strings

## O. Competitive Athletic Programs

### Current:

Participation in athletics helps our students develop personal strengths, such as a sense of competence, affiliation, and pride, leadership and team skills, communication and problem

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resolution skills, respect for authority and for diversity, character, commitment, accountability, confidence, sportsmanship, physical fitness, and general happiness. In the pursuit of nurturing individual interests, these activities serve as mini life skills labs where students can practice social interaction, share talents, and work with caring, principled adults outside the home. We view these activities as a unifying force within the school community, affecting not just those who take an active part in the program, but the entire community. While winning is laudable, the primary priority is learning and growth in the pursuit of excellence. We invite all students to take part in extracurricular activities such as athletic programs.

Somerset Middle School is one of 13 schools in the Massasoit League. The league affords the students opportunities to be part of competitive teams in a structured learning environment. Students learn respect and concern for rules and officials, opponents, and the spirit of the sport they play. The following sports teams are available to our students.

- Baseball
- Softball
- Soccer-Boys
- Soccer-Girls
- Field Hockey
- Cross Country (spring & fall)
- Basketball-Girls
- Basketball-Boys
- Tennis
- Bocce / Baggo (unified sports, community)
- Cross Country Path / (community & SBRHS use)
- Athletic Fields/ (community use)

## **Proposed:**

Somerset Middle School will continue to make available to our students a wide variety of opportunities to participate in afterschool programs including the current and future athletic teams. The indoor and outdoor facilities and grounds will need to accommodate the needs of all athletic teams which should include a concession building and restrooms. Outdoor playfields to accommodate all our athletic offerings, with a modified track along the perimeter of the field connecting to a cross-country course.

## **P. Media, Vocations And Technology**

### **Current:**

Somerset Middle School has recently shifted the engineering technology to include computer science, programming, and robotics. There is a manufacturing lab (woodshop) students use to

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construct and test bridges, and where they learn how to use various tools which is part of the Massachusetts frameworks. There are two computer labs that are used for AutoCAD, coding, software applications, web page design, and publishing.

The media center is significantly limited by the current facility. It is partially used as a grade 7 science class, as well as for podcasting and video recording in addition to book circulation and student work/study areas. There are no walls or dividers to separate the various areas. This space is not designed for optimal collaboration and project-based learning, operates as a dual-purpose setting, and is significantly undersized for project based learning.

## **Proposed:**

The media center needs to be a dynamic and vibrant classroom where students can compete in the 21<sup>st</sup> Century. This space is envisioned to provide the following:

Academic research will occur in the media center where teachers can bring classes that will have 21<sup>st</sup> Century tools at their disposal. In addition, media broadcasting, video editing, and video productions are part of the core offerings which will occur in the Media Center. During the educational visioning sessions, there were many project-based activities that involved strong media and data content. The library media center may ultimately be the best place for support of these activities.

## **Vocations and Technology**

The role of vocations and technology education in the middle school environment continues to ensure that students are offered STEAM exploratory courses in technology applications, digital citizenship, engineering, and execution. This project-based learning environment will be a place where students are learning, working, and building within the technology lab. Vocations and technology requires a more advanced and specialized space for the delivery of certain applications that are beyond the capabilities offered within the academic space.

In closing, for Somerset to offer the desired program in media, vocations, and technology, the following spaces are necessary:

- Full-scale Library Media Center including a Media Production Lab/separate teaching area
- Full-scale technology education room with workshop
- Full-scale technology/media literacy

Vocational education will continue to offer young adolescents with self-understanding of who they are, a social understanding of an individual's life work, and the commencement of goal development in terms of identifying what they might want to become. The vocational education

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program at the middle school level will provide students with a correlation between the academic subjects they are studying, the projects and hands-on experiences they are developing, and the professional careers that are evolving in a global world. The specific program space dedicated to vocations and technology should be highly flexible and should be integrated into the neighborhood teams and their maker spaces as much as possible. They include:

## *Integrated Academic Production Labs*

As noted above, the vocational technology programs will have an active an integrated role in the delivery of STEAM within the academic neighborhoods. The academic production labs included within each neighborhood are not a designated technology and vocations space; however, they do include an expanded component that is designated as a vocations and technology space. Each application lab will include an adjacent vocations and technology space that allows for the required connectivity between the applications lab and the vocations and technology skills. Such space should accommodate a small group of students working in direct proximity to the applications lab. This space will be referred to in the space summary as “Project Lab Support Area”.

## *Multimedia and Video & Production (VAP) Lab*

As media and video become more heavily integrated into many career and technology applications, the need to offer specific instruction in this area remains very relevant. This space will have a strong connection to the media center and be located such that it can potentially be supported by instruction and equipment provided by local business partners and the Town’s cable broadcasting entity.

## *Technology Education - Applications and Production Lab*

This will be a flexible lab environment which resembles a traditional vocations lab and includes numerous building and production tools. It will include focused hands-on career opportunities to participate in developing both kinesthetic learning through tactile experiences but also applying cognitive learning in technology career applications. The instructor will work collaboratively with the academic leadership to integrate lesson plans which allow students to support their project-based inquiry and learning assignments within their integrated academic production labs and to have opportunities to expand that exposure within the technology applications and production lab.

## *Tech Literacy*

Technology Literacy is a more traditional computer lab environment where students are exposed to advanced levels of graphic application, basic software development and application strategies, computer programming, and application development.

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## Q. Functional And Spatial Relationships And Key Adjacencies

### Current:

Somerset Middle School, as currently configured, is often referred to as the Industrial Model approach to educational design and jokingly referred to as “Cells and Bells” because it organized classrooms along a corridor, much like holding cells. Corridors are lined with Industrial-style lockers for each student. Each classroom space exists in a state of isolation, with no visual connection to the corridor other than a door. Students move from “cell-to-cell” under the direction of bells...hence the name “Cells and Bells”. This organizational structure has many disadvantages and includes an outdated approach to many 21st Century educational practices including:

- The evolution of technology has almost eliminated the need for student lockers. Lockers were created to hold books and personal belongings, all of which are minimized for the modern middle school student. The use of this valuable space for numerous underutilized lockers is a waste, and one goal of the new middle school will be to reduce to an appropriate size and strategically place lockers; utilizing technology to reduce the need for books and other storage solutions to address personal belongings.
- The middle school staff has seen increasing success with students who are able to work in small groups outside of the boundaries of the classroom. These students currently only have the corridor space available to them, which unfortunately limits the circumstances under which they can be allowed to complete small group study outside the classroom. However, the results associated with allowing students to assemble in small workgroups outside of the classroom have been very positive despite the spatial limitations. There should really be no “corridors” in a modern facility, as one could argue that this space is the most underutilized space in the entire building. These “Corridors” should become part of the “Neighborhood Commons” area with transparency to the classroom, such that they can be utilized during the entire school day as an area for small group study, independent research, and numerous other academic pursuits. One of the goals of the new middle school is to eliminate these “Corridors” and convert them to viable, usable, learning-supportive spaces in each neighborhood.

The current team consists of four general education teachers (Mathematics, Science, English Language Arts, and Social Studies) as well as Special Education Liaison(s) associated with Special Education programs connected to that particular team. While a team approach is utilized, the physical layout of the building inhibits teachers' ability to provide interdisciplinary opportunities on a regular basis.

The existing building is heavily utilized for various school and community activities, including:

- SSYSL (Somerset-Swansea Youth Soccer League)

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- SYBA (Somerset Youth Basketball Association)
- PAL (Police Athletic League) Wrestling
- Police exam, Police training
- Cross Country path
- Rooms in building by Somerset Town Meetings, School Committee meetings, SBRHS groups, Somerset Teachers Association meetings, Girl Scouts, Boy Scouts, Basketball leagues, local dance studio performances

The existing building layout and organization does not provide administration with the ability to secure sections of the building from the public during public events, thereby allowing any visitor to “roam” the corridors and entire building.

## **Proposed:**

The educational visioning sessions conducted with faculty, staff, administrators, and building committee members in September, October, and November 2019 provided much insight into the aspects of the proposed educational environment and its ability to support the desired educational program. Much of this insight is captured in the above-defined requirements for specific program areas. However, there are also overall functional, spatial, and adjacency requirements not mentioned above that were identified throughout the discussions and are important to capture in the overall planning process. These items are either guiding design principles or are keys to ensuring that the guiding design principles can be achieved. These concepts are summarized below in no particular order or prioritization.

## **Educational Innovation:**

There has been much discussion herein about the academic grade-level neighborhoods that were discussed throughout the educational visioning process and that have long been inherent in the Somerset Middle School program. The current school embraces a model that emphasizes teaming students. The team consists of four general education disciplines (Mathematics, Science, English Language Arts, and Social Studies) as well as Special Education Liaison(s) associated with Special Education programs connected to that particular team.

While a team approach is utilized in the current facility, the physical layout of the building inhibits teachers' ability to provide interdisciplinary opportunities on a regular basis and does not allow the teams to exist within their own dedicated academic neighborhood. In order for teachers to be able to facilitate the blending of multiple disciplines of academic instruction, the proposed new facility should organize the teams into grade-level “Teaching and Learning Neighborhoods”. These neighborhoods will include two teams (PRIDE and RESPECT), with each team consisting of Math, Science, English Language Arts, and Social Studies. Each grade-level academic neighborhood will include a dedicated hands-on project lab with a specific theme. Each

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neighborhood will include opportunities for small group work and study areas which allow students to move in and out of the classroom area without interruption. Special Education spaces for reading, resource, and inclusion will be an inherent part of each neighborhood. A shared teacher work, planning, and collaboration area in each neighborhood is an integral piece of the design and will allow collaboration on assignments, student progress, and the planning of rigorous cross-disciplinary opportunities. There was much discussion about how the individual grade-level teachers remain connected without being isolated into their individual neighborhoods, and the design process should explore the possibility of creating collaborative planning areas that keep teachers close to their neighborhoods but also allow them to collaborate across all grade levels. Although some separation is desired for individual grades, the visioning group agreed that there were strong benefits to some connections between grade levels and that this connectivity should be explored during the design process.

Although many of the specific discussions surrounding the proposed classrooms and the hands-on STEM Labs (grade-level project labs) are captured in other sections of the Educational Program, there were some conceptual ideas and visions that are equally as important. Based on experimental strategies tested within Somerset’s current middle school, it is strongly believed that 21st Century instructional practices should not segregate instruction from application. The modern middle school classroom should be large enough to accommodate both instruction and application. It has been discovered that many successful instructional applications require groups of students to be able to seamlessly and quickly transition from instruction to application without leaving the classroom. Teaching methodologies vary widely and are designed to engage students in critical thinking practices and applications. This requires the classroom to be flexible enough to allow for seamless and frequent transitions from whole group facilitation, to small group facilitation, and to peer-assisted collaboration and interaction. This flexibility requires additional classroom space and is why it has been requested that classroom sizes be within the upper range of MSBA guidelines. The hands-on STEM labs are an important program element of each academic neighborhood, but they cannot be the sole avenue for hands-on instruction. This would require too much time for student movement and transition and would require complex scheduling that eliminates teacher and/or student spontaneity. Much has been said and written about the “Flexible 21st Century Classroom”. It includes highly flexible furniture and floor plan, transparency to the academic neighborhood, sufficient space for hands-on learning, and the necessary functional attributes such as lighting and acoustics. It also includes ubiquitous technology and large-scale instructional walls which allow “every wall to be a teaching and collaboration wall”. The goal is to continue to advance this evolving model as part of the new middle school design. There has been much discussion about the need for small group spaces integrated within the classrooms and neighborhoods. Some of these spaces require a high level of transparency for supervision and connectivity to remaining neighborhood spaces, while others may require more privacy but the same level of connectivity in terms of adjacency. These spaces will become an extension of the flexible classroom in many areas, as they offer opportunity for pull-out instruction that remains closely integrated into the classroom.

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## **Belonging and Ownership:**

The visioning group felt strongly that one of the key attributes of a strong school community involves the ability to personalize the school environment. This fosters a sense of ownership, belonging, and pride. The grade-level academic neighborhoods and project spaces will provide an enormous canvas for the personalization of the school environment. They also will afford an opportunity to personalize the specific instruction being offered at each grade level. These spaces will allow educators to meet the needs of all students in an engaging, creative, and collaborative way. They should be flexible enough for the students to influence their organization and appearance, as they become reflective of the work being produced by the students. They should include opportunities for both short- and long-term exhibits and have the feel of a productive workshop for learning and exploration.

The visioning group also felt strongly that the students should continue with the ownership of and participation in various activities occurring throughout the school, including; 1) Student Gardens, 2) Recycling Program, 3) Technology Help Desk, and 4) School Store.

Participation in these activities provides a sense of involvement, responsibility, and community.

## **Safety and Security:**

The new middle school will provide students and staff with a safe and secure environment by including measures that support and foster safety and confidence. Students and staff must feel safe and confident in their environment, without the inclusion of over-restrictive physical barriers that compromise the educational environment. Providing clear and controlled entry will be important, including entry separation between grade(s) 6 or 5/6 (lower school) and grades 7/8 (upper school), but, within the academic neighborhoods, safety should prevail without restricting the desired open and transparent connections between the learning areas. A clear approach for students and visitors which promotes supervision and observation at the point on entry will be key to allowing all to access the necessary support services. Safety also includes providing adequate and appropriately located space for support services staff and outside providers who provide needed mental health support for our students. Students face and are presented with a wide array of mental health issues at early ages; it is vital that space is provided for these services to commence in a suitable space.

As part of the discussions on safety and security, several building systems were discussed as being critical to security in the school environment. They include:

1. Access Control System. All exterior doors will be lockable, and some will be electrified to be locked and unlocked by the access control system. Doors that do not have electrified door hardware will be locked and unlocked by keys. Main entry doors will be electrified. The grade level (upper school and lower school) doors will be

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Superintendent Jeffrey Schoonover

Chace Street Elementary School · North Elementary School · South Elementary School · Somerset Middle School

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electrified. They will have a card reader if having these doors locked at all times is desired. The inner set of doors in the main entry vestibule will be locked at all times, except for drop-off and pick-up times, where these doors are planned to be scheduled locked and unlocked during specific times by the access control system. This set of doors has a card reader as well. There will be a video entry station at these inner doors to allow administrative staff to buzz people past them in order to enter the administrative area. There may be a third set of doors beyond the administrative area which would be locked in a similar fashion as the inner set. Panic buttons, which can trigger a lockdown event in access control (examples of what a lockdown event can trigger are the presentation of a PA announcement, dialing 911, locking all unlocked electrified doors, disabling card readers below a certain access level, sending email alerts, etc.), will likely be located in the following areas: administration; Principal's office; certain secretarial staff; custodian's office; Assistant Principal's office. Stairwell doors can be pulled off magnetic holders and programmed locked by access control, securing upper floors from remaining areas. Activation of the fire alarm system will de-energize these stairwell doors for fire safety and they will become unlocked. Exterior doors DO NOT become unlocked upon fire alarm activation. Depending on the IPTV system for the school, it is planned that a lockdown condition in access control shall trigger the IPTV system to turn on all projectors and televisions in the school and present a video file for lockdown purposes.

2. Intrusion Detection System. The intrusion detection system is the burglar alarm system that is armed when the building is unoccupied. This system will likely include motion detectors in every room on the first floor with windows, door contacts on every exterior door, and door contacts on every interior door shown on the drawings (stairwells, and any room with a card reader). The intrusion system will be programmed to dial the central office when an alarm condition is detected, either by a motion detector or door being forced open. Panic buttons in the administrative area can be programmed to have the intrusion system dial 911 in an emergency during occupied times for lockdown purposes if desired.

3. CCTV System. Cameras will be placed around the exterior of the building, the parking lots, hallways, stairwells, the administrative area, student dining, auditorium, courtyard, physical education areas, media center, and any identified road entrances to the property. A camera will be placed on all entry doors into the building. A forced door alarm will call up the video of a camera assigned to cover the door at the security station PC.

4. A bi-directional amplifier and antenna system will be installed for police and fire radios to function within the building without interruption.

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## **Indoor/Outdoor School and Community Connections:**

The connection of indoor and outdoor spaces is important to creating a vibrant and energized educational environment. Students can become more engaged in utilizing outdoor space if an effort is made to ensure the appropriate visual and physical connection. Outdoor space can be used beyond recreational use and can provide project space, social space, classrooms, amphitheater, study areas, and other support areas for the educational environment. This could provide numerous educational, environmental, and fitness opportunities, even forming a pathway that flows into the proposed building. This would also provide an even better opportunity to utilize elements of the outdoor environment in specific science and environmental instruction, as the site and existing topography offers many unique environmental features, including wetland areas that can create outdoor “bio labs” closely integrated to indoor science opportunities. We would propose that the school campus include numerous outdoor rain gardens, as these have been successfully integrated into science labs, outdoor learning labs, and outdoor dining spaces at numerous school campuses in the Commonwealth.

## **Sustainability:**

The Town of Somerset has clearly established their commitment to sustainability, energy efficiency, and on-site renewable energy. In 2015, the District invested in the design and installation of a 350kW rooftop photovoltaic system on the new Somerset-Berkley Regional High School roof and a 300kW photovoltaic system (936 solar modules) on the existing middle school roof. Most recently, the community included goals in the Town-wide Master Plan of becoming a “Green Community” as designated by the Massachusetts Department of Energy and Resources (DOER). The educational visioning group expressed their desire to continue this commitment with the design of the new middle school project and generated several goals to implement in the proposed project’s site and building design, including;

- Maximizing the building’s energy efficiency
- Integrating and expanding the existing building’s rooftop photovoltaic array
- Using the site and building as a sustainable teaching tool
  - Use of the existing site’s topography and features for educational opportunities
  - Strategic exposure of building systems and promotion of building operational efficiencies
  - Integration of building technologies into the existing educational curriculum

## **Educational Technology Campus Wide:**

Campus-wide wireless access is key to creating a flexible environment where students can complete assignments without the confines or boundaries of a fixed computer lab. The seamless integration of technology through both a high-capacity wireless network coupled with durable small devices (i.e., iPad, Chromebooks, laptops) for each student will allow students to access

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information more readily to assist in the production of rigorous performance-based tasks that foster creativity and the development of 21st Century skills. The technology goals described previously herein will apply to the entire campus...indoors and outdoors. Additionally, media broadcasting, video editing, and video production are all academic endeavors which will be supported within the academic neighborhoods and through the provisions of the video production lab. This will also allow students to create and engage in a variety of community events through the use of a variety of media.

## **The School as a Whole Day Support Entity:**

For many of the students within the Somerset Middle School community, the school becomes a full-day support system from early in the morning until late into the evening. This often places students both inside and outside the building well beyond the official school day and should be considered as part of the building and campus design. As parents have more daily demands and students become more involved in school-related activities, the time they spend on the academic campus has expanded. These activities include music, performance, athletics, research, science, academics, tutoring, and numerous extracurricular activities previously outlined in the educational program. Many students study after school as they await upcoming practices, performances, or activities that involve them or their friends. The school also becomes a safe haven for spending time in social and recreational activities. Providing appropriate and safe indoor and outdoor spaces for such activities is a key component of a successful Somerset Middle School environment.

## **R. Transportation Policies**

The Somerset Public Schools provides transportation to all students in Somerset at no cost to the family. Presently, 15 school buses are used to provide transportation for Somerset Middle School students. Additionally, some students are provided special transportation using vans as required by some students' individualized education programs. A number of families choose to drive their child(ren) to school daily. Currently, Somerset Middle School has a single driveway for all incoming and outgoing traffic, including all school buses, special education vans, and parent drop-offs and pick-ups. This creates significant traffic delays each morning and afternoon. Any proposed design would incorporate multiple entrances/exits from the site, including the separation of bus, vehicular, and pedestrian activities.

## **S. Social Emotional Needs**

### **Current:**

Current Student Service space includes an open area for secretary with conference tables (currently not a confidential space); off this area is the school psychologist's office, in-school-suspension room, and 6th grade guidance counselor office. This open conference area adjoins to a hallway with a men's and women's room, record room and supply room. In addition, down the hall is an

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adjustment counselor's office, the 7th and 8th grade guidance counselor's office, and School Resource Officer's office.

- This year there are 59 students on 504's who are monitored for grades, social emotional health, or medical. Currently there are 107 students on IEP's who are monitored for grades and/or social emotional reasons.
- In a typical day 16 students are serviced based on raw data of the sign-in sheets this year.
- In 2018-19:
  - 1,578 documented visits to the student service center in the 2018-2019 school year
  - 20 IEP meetings attended by student service providers monthly
  - 63 504 meetings were facilitated by guidance counselors annually
- Family meetings take place in classrooms or the main office conference area due to lack of confidential space with student service providers.
- Small group counseling provided by adjustment and psychologist is provided in offices now
- PSAT's, NAEP, MCAS assessments, and ASPEN school scheduling are all organized in the guidance conference space by guidance counselors; secure space and storage is needed to facilitate this process
- Secretarial space is currently part of the conference area in the guidance suite

## T. Community Use of Facilities

### Campus Connections to the Community

The sense of community among the students, staff, educators, and administrators at the Somerset Middle School was identified by all as being extremely strong, and one of the guiding design principles would be to promote the contagious spread of this strong sense of community to the entire neighborhood outside of the boundaries of the school campus. Parents and community members who are currently participating in school activities are highly involved and provide a strong sense of support. However, the planning of the newly proposed facility should include considerations for how to facilitate stronger engagement of the parents and residents. It must be a welcoming environment for not only students and staff but also for all residents of the neighborhood and associated businesses. The proposed facility should be designed in a way that allows visitors to experience student activity and work and to provide support for such in meaningful ways. Being able to strengthen the greater community through both ease of use of facilities and the presentation and display of student work is of vital importance. Because visitors will not necessarily be privy to the day-to-day learning experiences of students, providing opportunities to view student work that is rigorous and engaging will help to build a sense of community between the school and the neighborhood residents. Other strategies for strengthening

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community may include a more accessible campus, shared work and conference areas for parents, program areas which can be shared by the neighborhood during non-school hours, exhibit areas for local businesses, and numerous other possibilities.

The site on which Somerset Middle School stands served as the Somerset Town Farm from about 1850-1950. This town farm was an ongoing project used to generate revenue that was used to “provide shelter and care to Somerset residents who were unable to support themselves due to illness, poverty, and special needs.” From early on in its history and to this day, a strength of the Town of Somerset has been the way it comes together as a community to support each other in times of need. A well-planned Somerset Middle School will honor its historical sense of community by making all efforts to connect the school campus to the surrounding neighborhoods and create new connections to the town community for access and use. Such uses may include fitness trails, a community garden, and access to other athletic and leisure activities for residents, thereby providing fitness opportunities for both the community and the school. It is important to note that Somerset Middle School is located on a Town parcel that is also occupied by the South Elementary School and the South Athletic Complex, which is home to three baseball fields, two soccer fields, an outdoor basketball court, and a playground. The Somerset Middle School campus and the woods adjacent to the school to the west are home to the Somerset Berkley Regional High School and Somerset Middle School cross-country routes. The Somerset Middle School site is also connected to the Somerset Berkley Regional High School campus by means of a wide path (utility easement) of land used by National Grid for energy transmission. We envision connecting these two schools via a bicycle/walking trail along this swath of land.

To honor the history of the site and to provide strong curricular connections in science, we propose that Somerset Middle School contain a community garden and/or greenhouse. This would provide an opportunity to utilize elements of the outdoor environment in specific science and environmental instruction as well as with our special education programs.

With limited open space in Somerset, we propose that Somerset Middle School also host several outdoor areas to accommodate outdoor activities such as Bocce and Pickleball. Not only would community members have access to these areas, but Somerset Middle School would also incorporate them into extracurricular activities including intramural sports and Special Olympics Unified athletics.

Somerset Middle School is frequently used by organizations in town for youth and community activities. The Somerset Middle School gymnasium hosts Somerset Youth Basketball games nearly every weeknight from the start of November through March and often on weekends, too. The Police Athletic League utilizes the gym every weekend throughout the winter for floor hockey. Additionally, the Town of Somerset often uses the middle school auditorium for community purposes, such as two very well attended public meetings that took place on November 19 and

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November 21, 2019; the middle school auditorium is the only large public space owned by the Town of Somerset to host such meetings.

The importance of music in a student's overall education is certainly evident throughout Somerset. This can be seen in several rounds of student musical performances each fall and spring at Somerset Middle School as well as with the middle school's annual spring musical drama production. These events are always at capacity as they bring together members of the community, from parents and grandparents to others who no longer have immediate familial connections to the school. It is essential to the future success of students to maintain the ability to demonstrate their proficiency in music and performance arts. Somerset Middle School must create a warm and welcoming environment immediately upon entrance into the building. This building must promote safety, pride, identity, and belonging upon arrival through the display and celebration of student work.

Schools are becoming more often a place where students spend a substantial amount of time beyond the regular school day; Somerset Middle School is no different. Students spend ample time after school engaged in athletics, performing arts, extracurricular activities, intramural sports, and homework club. Somerset Middle School provides daily late buses for students who stay after school to make it easier for them to have positive, structured experiences each afternoon.

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# Initial Space Summary

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## Space Summary







# OPTION 4

ROOM TYPE	Existing Conditions (6-8)	
	ROOM NFA <sup>1</sup>	# OF RMS
Auditorium Storage	96	2
Auditorium Storage	34	2
Lecture Hall	1,869	1
Total Building Net Floor Area (NFA)		
		88,487
Proposed Student Capacity/ Enrollment		
<b>NON-PROGRAMMED SPACES</b> (list separately)		
Other Occupied Rooms (list separately)		
Unoccupied MEP/FP Spaces		
Unoccupied Closets, Supply Rooms & Storage Rooms		
Toilet Rooms		
Circulation (corridors, stairs, ramps & elevators)		
Remaining <sup>3</sup>		
Total Building Gross Floor Area (GFA) <sup>2</sup>		126,980
Grossing factor (GFANFA)		1.44

Existing to Remain/Renovated	New		Total	
	ROOM NFA <sup>1</sup>	# OF RMS	ROOM NFA <sup>1</sup>	# OF RMS
250	1	250		
area totals		250		
# OF RMS		1		
% of GFA				
0		90,190	0	
area totals		90,190		
# OF RMS				
% of GFA				
0		43,291	0	
area totals		43,291		
# OF RMS				
% of GFA				
#DIV/0!	0%		#DIV/0!	
#DIV/0!	0%		#DIV/0!	
#DIV/0!	0%		#DIV/0!	
#DIV/0!	0%		#DIV/0!	
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#DIV/0!	0%		#DIV/0!	
#DIV/0!	0%		#DIV/0!	
#DIV/0!	32%		#DIV/0!	
area totals		43,291	0	
# OF RMS				
% of GFA				
0		133,481	0	
area totals		133,481		
# OF RMS				
% of GFA				
#DIV/0!		1.48	#DIV/0!	

ROOM NFA <sup>1</sup>	# OF RMS	area totals	Comments
		71,567	
		590	Enter grade enrollments below
		205	Lower Middle; Grade 6
		385	Upper Middle; Grades 7-8
			Non-Programmed space areas are required to be included in the following submittals:
			Schematic Design Submittal
			Design Development Submittal
			60% Construction Documents
			90% Construction Documents
			Final Construction Documents
		102,491	
		1.43	

**1 Individual Room Net Floor Area (NFA)** Includes the net square footage measured from the inside face of the perimeter walls and includes all specific spaces assigned to a particular program area including such spaces as non-communal toilets and storage rooms.

**2 Total Building Gross Floor Area (GFA)** Includes the entire building gross square footage measured from the outside face of exterior walls. Includes exterior walls, interior partitions, chases, and other areas not listed above. Do not calculate this area, it is assumed to equal the difference between the Total Building Gross Floor Area and area not accounted for above.

**3 Remaining** Includes exterior walls, interior partitions, chases, and other areas not listed above. Do not calculate this area, it is assumed to equal the difference between the Total Building Gross Floor Area and area not accounted for above.

**Architect Certification**

I hereby certify that all of the information provided in this "Proposed Space Summary" is true, complete and accurate and, except as agreed to in writing by the Massachusetts School Building Authority, in accordance with the guidelines, rules, regulations and policies of the Massachusetts School Building Authority to the best of my knowledge and belief. A true statement, made under the penalties of perjury.

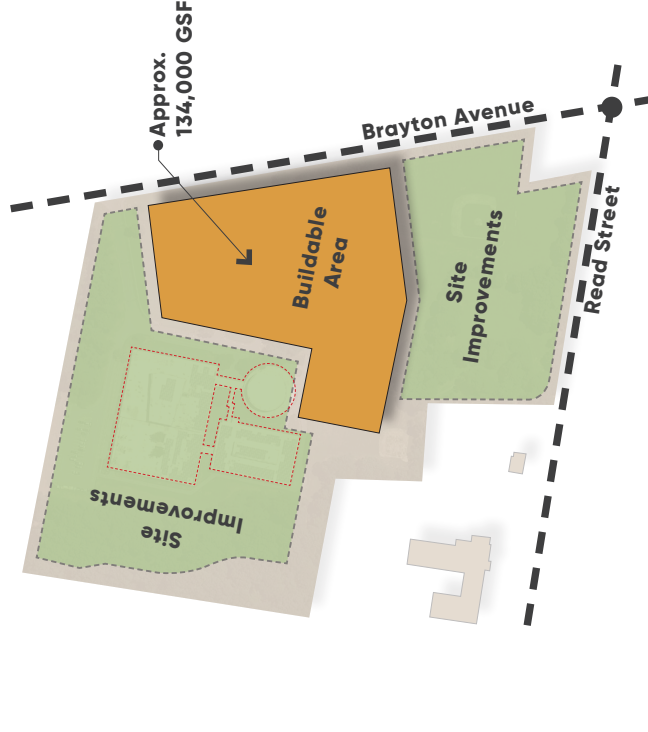
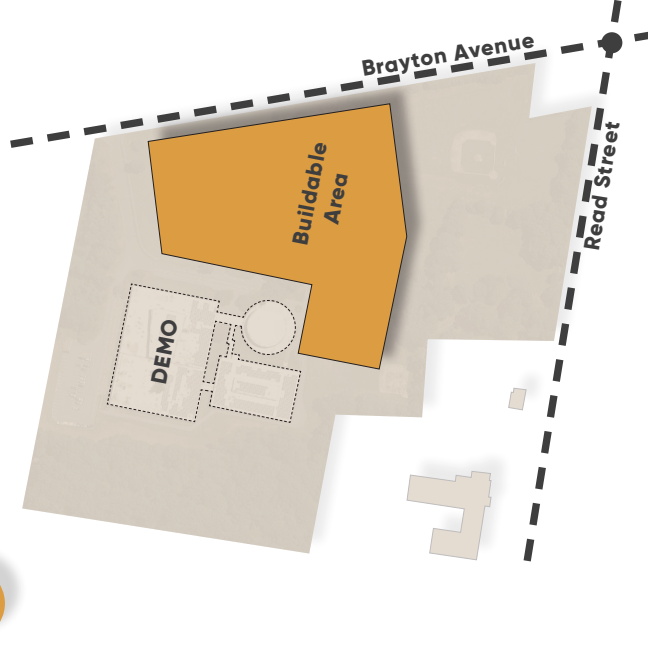
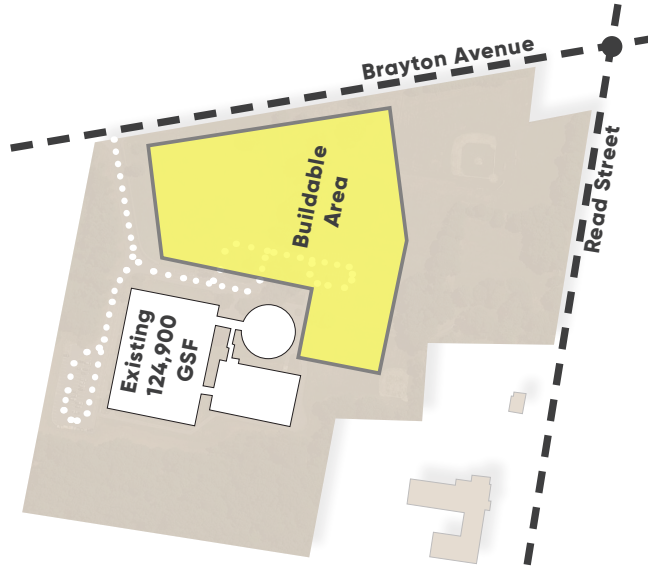
Name of Architect Firm: AG Architects, LLC

Name of Principal Architect: Troy L. Ruppel, AIA, LEED AP BD+C

Signature of Principal Architect: \_\_\_\_\_

Date: 20 Dec-19

## Option 4 → 6-8 New Construction



### Pre-Construction

Prepare construction access & fencing. Add new access to site.

**2 MONTHS**

### Phase I

Construct All New Middle School. Grades 6-8 Transition to new School. Demolish existing 1965-1969 Middle School.

**20 - 22 MONTHS**

### Phase II

Re-construction of site amenities, playfields, parking, and circulation.

**10 - 12 MONTHS**

Total Duration **±34 MONTHS**









ROOM TYPE	Existing Conditions (6-4)	
	ROOM NFA <sup>1</sup>	# OF RMS area totals
Auditorium (600 Seats)	4,852	1
Auditorium Storage	96	2
Lecture Hall	1,869	1
Total Building Net Floor Area (NFA)		88,487
Proposed Student Capacity / Enrollment		
<b>NON-PROGRAMMED SPACES</b> Other Occupied Rooms (list separately)		
Unoccupied MEP/FP Spaces		
Unoccupied Closets, Supply Rooms & Storage Rooms		
Toilet Rooms		
Circulation (corridors, stairs, ramps & elevators)		
Remaining <sup>3</sup>		
Total Building Gross Floor Area (GFA) <sup>2</sup>		126,980
Grossing factor (GFA/NFA)		1.44

Existing to Remain/Renovated	New		Total	
	ROOM NFA <sup>1</sup>	# OF RMS area totals	ROOM NFA <sup>1</sup>	# OF RMS area totals
	6,000	1	6,000	
	230	1	230	
			106,895	0
% of GFA	0	% of GFA	51,310	0
#DIV/0!	0%	#DIV/0!		
#DIV/0!	0%	#DIV/0!		
#DIV/0!	0%	#DIV/0!		
#DIV/0!	0%	#DIV/0!		
#DIV/0!	0%	#DIV/0!		
#DIV/0!	32%	#DIV/0!	51,310	0
			158,205	0
			1.48	#DIV/0!

ROOM NFA <sup>1</sup>	# OF RMS	area totals	MSBA Guidelines (refer to MSBA Educational Program & Space Standard Guidelines)	
			Comments	
88,667				
770			Enter grade enrollments below	
385			Lower Middle: Grades 6-8	
385			Upper Middle: Grades 7-8	
			Non-Programmed space areas are required to be included in the following submittals:	
			Schematic Design Submittal	
			Design Development Submittal	
			60% Construction Documents	
			90% Construction Documents	
			Final Construction Documents	
			123,200	
			1.39	

<sup>1</sup> Individual Room Net Floor Area (NFA) includes the net square footage measured from the inside face of the perimeter walls and includes all specific spaces assigned to a particular program area including such spaces as non-communal toilets and storage rooms.

<sup>2</sup> Total Building Gross Floor Area (GFA) includes the entire building gross square footage measured from the outside face of exterior walls

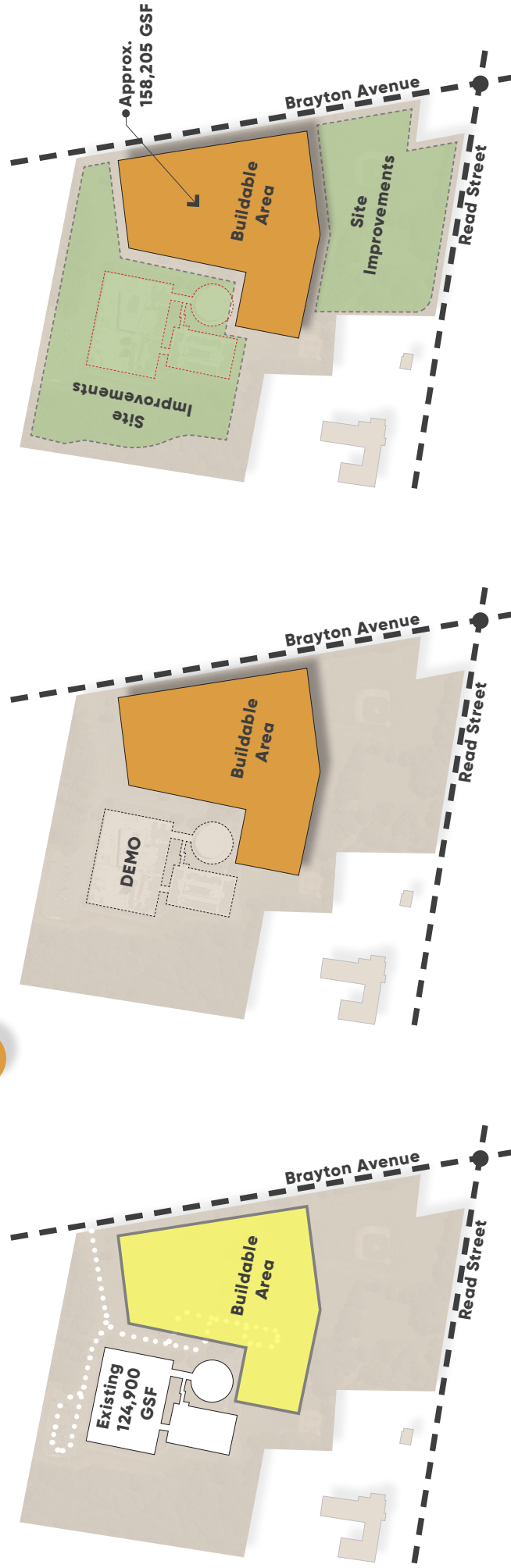
<sup>3</sup> Remaining includes exterior walls, interior partitions, chases, and other areas not listed above. Do not calculate this area. It is assumed to equal the difference between the Total Building Gross Floor Area and area not accounted for above.

**Architect Certification**

I hereby certify that all of the information provided in this "Proposed Space Summary" is true, complete and accurate and, except as agreed to in writing by the Massachusetts School Building Authority, in accordance with the guidelines, rules, regulations and policies of the Massachusetts School Building Authority to the best of my knowledge and belief. A true statement, made under the penalties of perjury.

Name of Architect Firm: A&B Architects, LLC  
 Name of Principal Architect: Troy L. Barfalli, AIA, LEED AP BD+C  
 Signature of Principal Architect: \_\_\_\_\_  
 Date: 10-Dec-19

## Option 7 5-8 New Construction



### Pre-Construction

Prepare construction access & fencing.  
Add new access to site.

**2 MONTHS**

### Phase I

Construct All New Middle School.  
Grades 5-8 transition to new School.  
Demolish existing 1965-1969 Middle School.

**22 - 24 MONTHS**

### Phase II

Re-construction of site amenities, playfields, parking, and circulation.

**10 - 12 MONTHS**

Total Duration **±36 MONTHS**



# Initial Space Summary

## Space Summary Narrative

### ***Core Academic Spaces***

The proposed Somerset Middle School Space Summary includes 45,110sf of Core Academic space, exceeding the MSBA guideline of 40,760sf by 4,350sf. This overage is primarily due to the inclusion of grade level project based learning labs, as well as teacher planning, collaboration, and workrooms within this category.

### ***Project Based Learning Labs***

The Somerset Middle School program includes grade-level project labs that are closely integrated to the academic classrooms and two team neighborhoods, labeled 'Pride' and 'Respect'. These are similar to the hands-on project labs incorporated into many modern middle schools; however, based on curriculum and application testing within the current middle schools, the staff and Administration feel strongly that these labs should not be a "generic or multipurpose space" but instead should have a specifically defined theme and purpose that is integrated into the grade level curriculum. They should be flexible, as their themes will certainly change and evolve over time, but will contain the specific tools and components to support their curriculum application at any given time. Additionally, these spaces should not be open common areas that can be interrupted by student flow or noise, but instead should be visible (transparent) spaces that include sound separation from other team and academic neighborhood activities. However, the inclusion of operable glass partitions will allow the labs to open up to each grade level neighborhood when desired.

### ***Teacher Planning, Collaboration, and Workrooms***

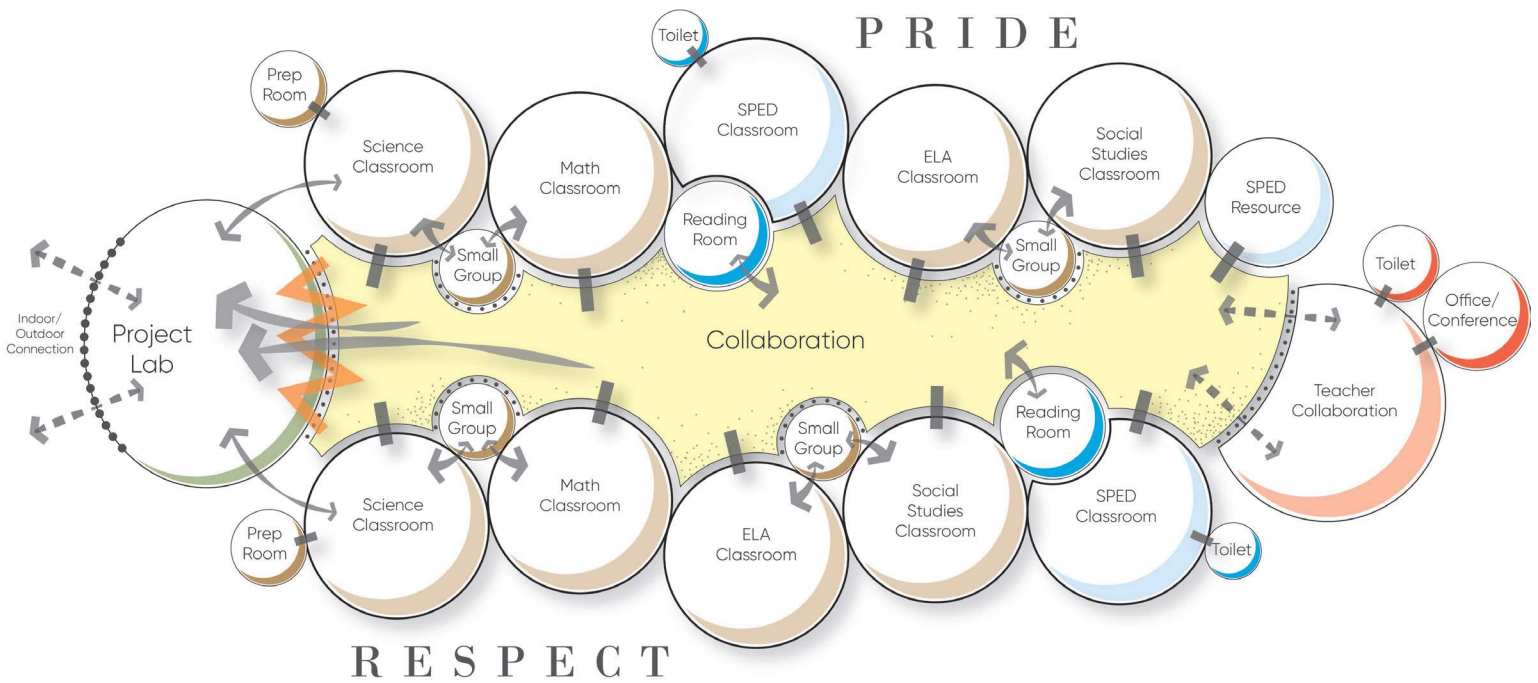
Teacher collaboration and work spaces should be incorporated into each grade-level neighborhood in a way that would allow teachers to interact, create, plan, collaborate, and complete their work. This space is critical to the successful implementation of a co-teaching and teaming model. Although these spaces should be in close proximity to the team neighborhood, consideration should be given to the challenges identified herein such that teachers across all grade levels have opportunities for formal and informal interaction. Given grades 5 and 6 neighborhood organization as a lower school and grades 7 and 8 neighborhood organization as an upper school, sensible and effective design for these collaborative work spaces would allow grades 5/6 teachers a large workspace connecting the neighborhoods, and 7/8 should have the same.

Distributing this space throughout the academic areas can provide an additional layer of oversight and visual observation of students who may be working or circulating within the neighborhood, project labs, work areas, or even the individual resource rooms. Smaller satellite conference areas interspersed in other more common parts of the building (such as the media arts center and the main administration and guidance areas) could also provide space for parent/teacher conferences and support a better integration of parent involvement. Teacher dining areas should be organized as adjunct to the workrooms to encourage collaboration and work while simultaneously providing the necessary dining opportunities. Separation should be minimal with sight lines across collaborative teams for visibility, but allow for private conference when necessary.

All classrooms and collaborative spaces should be equipped with adequate windows to allow for proper natural lighting and should also provide transparency (glass) into surrounding spaces when it is functionally advantageous, which has the potential to increase the opportunities for supervision of students. The Educational Visioning sessions included discussions on the value of transparency, but also on the need for privacy and how to balance these needs. Design solutions should be explored and additional discussions should take place to determine the correct balance for these spaces. Such design solutions like "smartglass" have been discussed to allow transparency into the classroom, but also instant privacy from the touch of a button when required. Neighborhoods and the related classroom and support spaces should include ample storage space, movable furniture, some movable walls for co-teaching, team teaching, and flexible grouping as defined above. Movable walls should be further explored to determine the specific areas of the building where they may offer value. Classrooms should include functional amenities such as ample electrical outlets, and all available walls should include expanded floor-to-ceiling whiteboard or writable glass space as students and teachers are encouraged to write, collaborate, and explore beyond the

boundaries of a 4'x8' single whiteboard. Common planning time is built into the schedule for all teams, including related arts and science. Neighborhood Commons and Lab space should allow for the creation and delivery of student presentations, along with visual and physical access to neighborhood classrooms.

In a 5-8 middle school model, the grades 5 and 6 neighborhood should have some separation from the 7 and 8 neighborhoods, but a careful balance of separation and adjacency is necessary as they should still be convenient to all grade levels for access to advanced placement and mentoring opportunities. Within the neighborhoods of the grade-level teams there should be some consideration for adjoining grade 5 Math and Science classrooms, along with possible adjoining of English and History classrooms. Access to project spaces is pivotal to promote the desired STEAM initiatives, and the necessary support amenities should be provided within the neighborhood commons as discussed above. The inclusion of teacher collaboration work/dining/planning/conference rooms in each of these neighborhoods should exist for both convenience (reducing the distance staff must travel and therefore increasing efficiency and ease of use) and also as an additional strategy for visual observation of students at all times.



### ***Special Education***

The proposed Somerset Middle School Space Summary includes 13,780sf of Special Education space, exceeding the MSBA guideline of 9,060sf by 4,720sf. The Somerset Middle School (SMS) is one of five Schools in the Somerset Public Schools that offers special education programming to students with disabilities. SMS currently lacks the space required to house SPED programs for students with autism, and with its current space constraints and the lack of necessary classroom adaptations, there is no room for future growth. This proposal will include the space needed for expansion to offer services as required under state and federal special education laws, while also relieving space constraints currently present in the three elementary schools needed for their own future expansion. SMS includes a continuum of services that include academic services ranging from general education support, inclusion support provided by a paraprofessional, co-taught classes with a general educator and a special educator, and small group classes in a learning center. SMS is currently lacking necessary substantially separate classrooms. Additionally, related services such as speech and language, physical therapy, occupational therapy, and behavioral services are provided for students in need.

The proposed building project of more than 590 students in the 6-8 model (110+ in Special Education, 1-5+ ELL students) and 770 students in the 5-8 model (140+ in Special Education, 2-7+ ELL students) will afford the growing program to be an integral part of the school community and fully integrated into the academic neighborhoods. Ample classroom space, anticipated at four Learning Center spaces (Resource Rooms), eight adequately equipped sub-separate spaces with bathrooms and kitchen areas (self-contained SPED), eight Speech/Testing rooms, one Occupational/Physical Therapy room, four small group reading rooms, and one Adaptive Physical Education space will be provided in order to best meet the educational needs of all students. The Somerset Public Schools are committed to offering all students the most complete spectrum of fitness activities available, and the Adaptive Physical Education space will allow students with physical challenges to participate in many of the same activities as their peers. This program will be delivered in a space that can be utilized by all students, but will require separate and dedicated use for special education during many periods in order to appropriately accommodate the special education population. It should be in direct proximity to the OT/PT Therapy room in order to allow special education students to seamlessly move between the two spaces. In instances where a highly specialized space is required for Occupational and Physical Therapy, this OT/PT skills room should be adequate in size and would be similar to a full-size classroom, accommodating both gross and fine motor activities taught simultaneously. The IEP needs for students often include specialized motor equipment. The motor room should

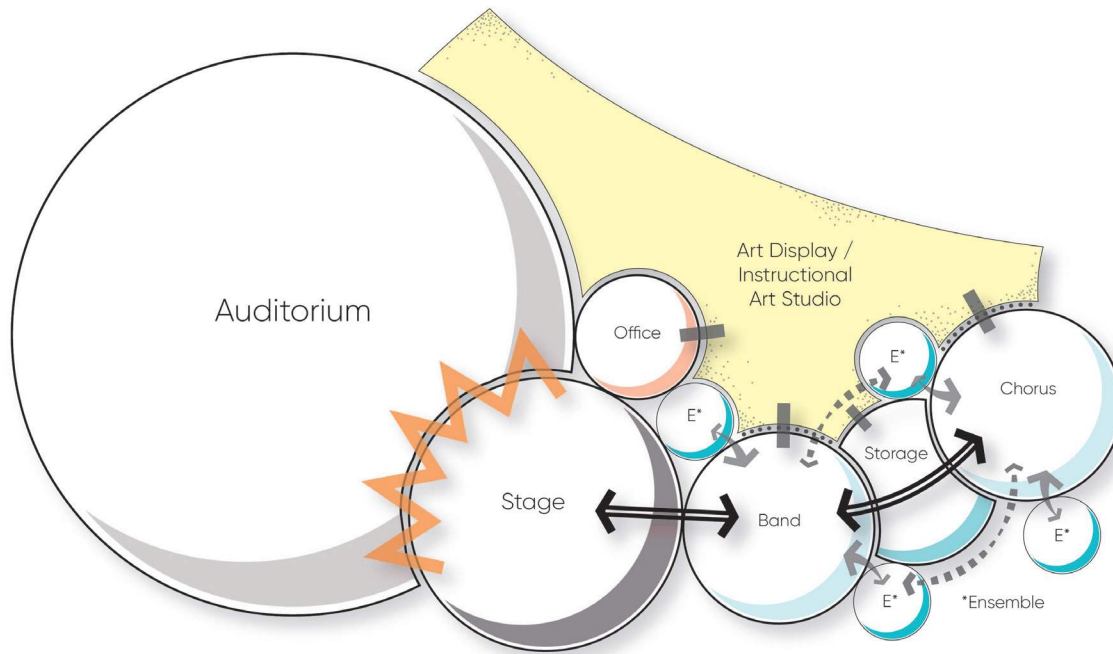
also allow space for gross motor activities and individual and/or small group therapy sessions. There would also need to be equipment for the children, including a large floor mat, balance beam, a swing, and a ball pit, as well as ample room for gross motor movement. Sensory motor activities and/or fine motor work would require a space for up to two tables and up to eight student chairs. If possible, one of the walls should be mirrored to allow students to model and demonstrate their skills. This design will afford more opportunities for students and staff to work horizontally and vertically, and to incorporate interdisciplinary ways to fully integrate special needs programming, while having the capacity to expand current program and develop new programming as population changes and increases.

The application labs within each general academic neighborhood should include a dedicated "Integrated SPED Project Lab" to ensure there is sufficient space within the project labs to include the integration of special education students. This space should be integral to the remaining lab space and provide the necessary physical, visual, and/or auditory amenities to ensure the best possible experience for students within these lab spaces and to allow special education students to integrate with their peers.

The Somerset Middle School will continue to support a full continuum of services for students through 8th grade. The implementation of a comprehensive interdisciplinary model will allow students to access the general curriculum in classes taught by both a general education content area teacher and a special education teacher. Substantially separate programs will be strategically located in areas of the building to best support student access. All special education programs need to be located close enough to content and elective general education programming so that inclusive opportunities can be realized when possible. Programs for students with severe cognitive and communication disabilities will have a newly designed daily living support area to include kitchen, laundry, and bathroom within a semi-private space with a designated de-escalation area to support a more protected and dignified learning space.

### **Art & Music**

The proposed Somerset Middle School Space Summary includes 6,400sf of Art and Music space, exceeding the MSBA guideline of 4,600sf by 1,800sf. This overage is resulting from the high participation levels present within the art and music curriculum and support from the Town. The Town of Somerset prides itself on the 'Music Town' legacy it has established, and the art and music department has become a vital part of the curriculum offered at Somerset Middle School. This proposal will include the space needed for the growing art and music programs with two art classrooms, two music spaces for upper and lower schools, four practice/ensemble spaces, and ample instrument storage. With its proposed adjacency to the auditorium and stage, students will have direct access from practice space to performance space without disruption to neighboring classrooms.



### **Vocations & Technology**

The proposed Somerset Middle School Space Summary includes 5,720sf of Vocations and Technology space, exceeding the MSBA guideline of 4,320sf by 1,400sf. The vocational education program at the Somerset Middle School will provide students with a correlation between the academic subjects they are studying, the projects and hands-on experiences they are developing, and the professional careers that are evolving in a global world. The specific program space dedicated to vocations and technology should be highly flexible and should be integrated into the neighborhood teams and their maker spaces as much as possible. The spaces required for Vocations and Technology at SMS are the following:

#### Coding and Robotics

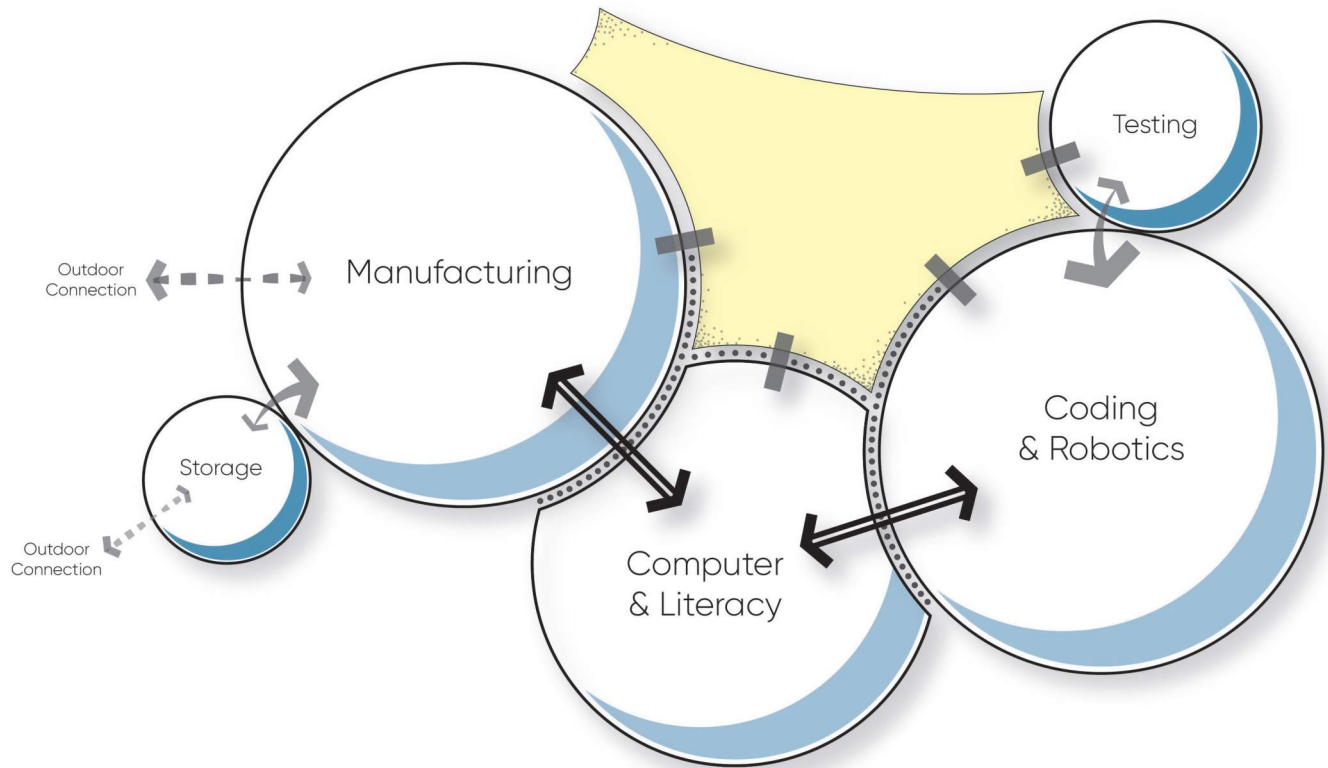
This will be a flexible lab space which resembles that of a computer lab environment with the space required to develop and test the work associated with the curriculum. As the program expands, students will have the opportunity to apply their knowledge outside of the curriculum, developing social and collaborative skills necessary for successful teamwork.

#### Manufacturing

This will be a flexible lab environment which resembles a traditional vocations lab and will include numerous building and production tools. It will include focused hands-on career opportunities for students to participate in developing kinesthetic learning through tactile experiences and applying cognitive learning in technology career applications. The instructor will work collaboratively with the academic leadership to integrate lesson plans which would allow students to support their project-based inquiry and learning assignments within their integrated academic production labs and to have opportunities to expand that exposure within the technology applications and production lab.

#### Computer Literacy

Computer Literacy is a more traditional computer lab environment where students are exposed to advanced levels of graphic application, basic software development, and application strategies, computer programming, and application development.



### ***Health & Physical Education***

The proposed Somerset Middle School Space Summary includes 8,400sf of Health and Physical Education space, matching the MSBA guideline of 8,400sf. The physical education and fitness classes at Somerset are part of the core educational program. Currently Somerset Middle School has 14 sports teams that use both the indoor and outdoor facilities throughout the year.

Current programming is as follows:

#### Physical Education

Grades 6 – 60 days

Grades 7 & 8 – 60 days

#### Health

Grades 6 – 60 days

Grades 7 & 8 – 60 days

The existing Somerset Middle School building provides insufficient space for the delivery of physical education and fitness programs. The building includes only a single gymnasium and no fitness center. Though some may consider it as forward thinking in the 1960's when it was built, the circular form that houses the existing gymnasium is a layout and design that lacks efficiency and does not provide the space required for current Physical Education standards and curriculum. The gym space can only be subdivided in two and lacks the necessary flexibility with only one folding partition to provide as many spaces as possible. The lack of physical education space requires that many classes be configured to hold over 40 students. These

students must be confined to half of the available area when special education students are utilizing portions of the gymnasium for adaptive PE or physical therapy. At other times, multiple classes of 40 students utilize the available space simultaneously. Because of the required separation between grades 6 students (or 5/6 students) and 7/8 students, programs within the gym are greatly limited by its small size and the inability to divide available space into two distinct areas.

As the gymnasium and locker room areas are antiquated, and the health classroom lacks an appropriate and adequate educational environment, attention to these important areas is critical.

There are locker rooms; girls have changing stalls, and boys have an open area. This area is circa 1960s and does not represent current standards and practices. Students are hesitant to use these areas.

Currently, there are only two dedicated health classrooms both of which are not adjacent to the gymnasium and are insufficient for the size and population of the school. Many educational programs have a strong link to the gymnasium as a support space but there is rarely a classroom available near the gymnasium.

As indicated in the special education summary, there are no available spaces for the delivery of adaptive physical education and the incorporation of required occupational therapy and physical therapy spaces. Existing gymnasium space is too crowded and over-scheduled to incorporate adaptive PE, and

there is insufficient space to integrate some OT/PT activities into mainstream physical education courses.

For purposes of physical education and activity, the newly proposed 5-8 school will essentially operate as two independent student populations - a 5/6 population of approximately 385 pupils and a 7/8 population of approximately 385 pupils (a 6-8 middle school configuration will also operate as two independent student populations - a grade 6 population of approximately 205 students and a 7/8 population of approximately 385 students). To accommodate two distinct groups, two full-size (3,000sf) teaching stations will be required. The proposed program offerings for adaptive PE and OT/PT require that this program have a dedicated fitness space (identified and described herein under special education) that can meet students' specific needs and also allow them to integrate with their peers. In addition, a full-service health center is critical to the implementation of the school's fitness program.

Some specific program areas and amenities include:

- Two full-size (3,000sf) teaching stations within a gymnasium-style environment that is sub-dividable and that includes a wood floor (two areas)
- Mat hoists to allow for the delivery of cheering stretching, fitness testing, wrestling, etc.
- Dedicated health classrooms (5/6 & 7/8) with connection to the Adaptive PE space as an activity lab
- Fully equipped Adaptive PE room with both cardio equipment and age-and-needs appropriate fitness equipment outfitted with a turf area; high ceilings
- Men's and women's PE office and storage space; ideally the men's and women's office will be combined for planning purposes and central to the locker rooms
- Health storage space to accommodate support materials
- Changing stalls in both locker rooms
- Outdoor playfields to accommodate all our athletic offerings; with a cross country track within site area

### **Other**

The proposed Somerset Middle School Space Summary includes 6,250sf of Other space. This overage is resulting from the inclusion of a 6,000sf Auditorium (600 seats), and 250sf for storage to replace the capacity of the existing auditorium. As described elsewhere in the program, music and performance has a long history and tradition in Somerset in which it has been known as "Music Town" for nearly fifty (50) years.





## Site Development

### Legal Title of Property

The approximately 25.21-Acre lot, including the Middle School building, entrance drive, parking area, athletic fields, and the Protected Resource Area, is owned by the Town of Somerset. Historical information shared with the project team indicated that the property was once part of the Somerset Town Farm in the mid-1800's. There is historical reference that, at a Town Meeting in 1911, the Selectmen authorized to sell a portion of Town Farm and, in 1914, the original South School located on Read Street was built on Town Farm property. Additional parcels of land were purchased or donated to be used for "school" purposes. In 1952 the current South School was constructed. On March 11, 1963, Town Meeting voted to take "23 acres more or less" from the "Old Town Farm" to be used for school purposes. The same meeting voted to construct a new Junior-Senior High School, which is the current Somerset Middle School. Although, an extensive effort was made by the project team and Owner to research property records and Deed of the property, an actual legal Property Title could not be located. A copy of the Commercial Property Record Card is included in this report, which confirms the Owner of the parcel to be the Town of Somerset.

#### ***Availability of Property for Development***

Based on the research performed, we are not aware of any restrictions and that the noted Somerset Middle School property is available for development of a new school or the renovation with additions of the existing facility.

#### ***Development Restrictions Investigation***

The design team conducted a thorough investigation of the possible development restrictions of the property as it relates to zoning regulations, natural environment pertaining to topography, soils, wetlands, rare species, and cultural resources, utility and roadway infrastructure, and site planning requirements pertaining to local, state, environmental, and historic requirements. Based on these findings, there are no constraints which prohibit this site from serving as a viable location for a newly constructed school or the renovation with additions of the existing facility. Additional information can be found in Sections 4 and 5 of this report.

HISTORY  
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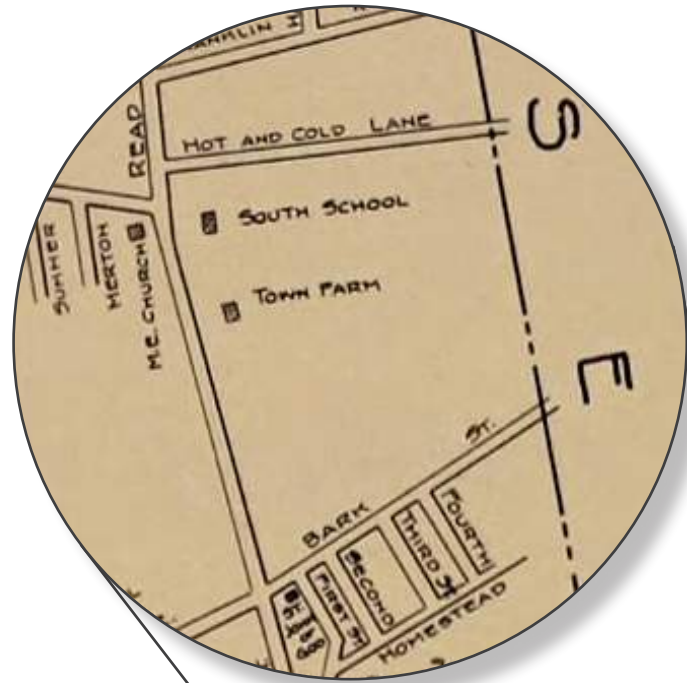
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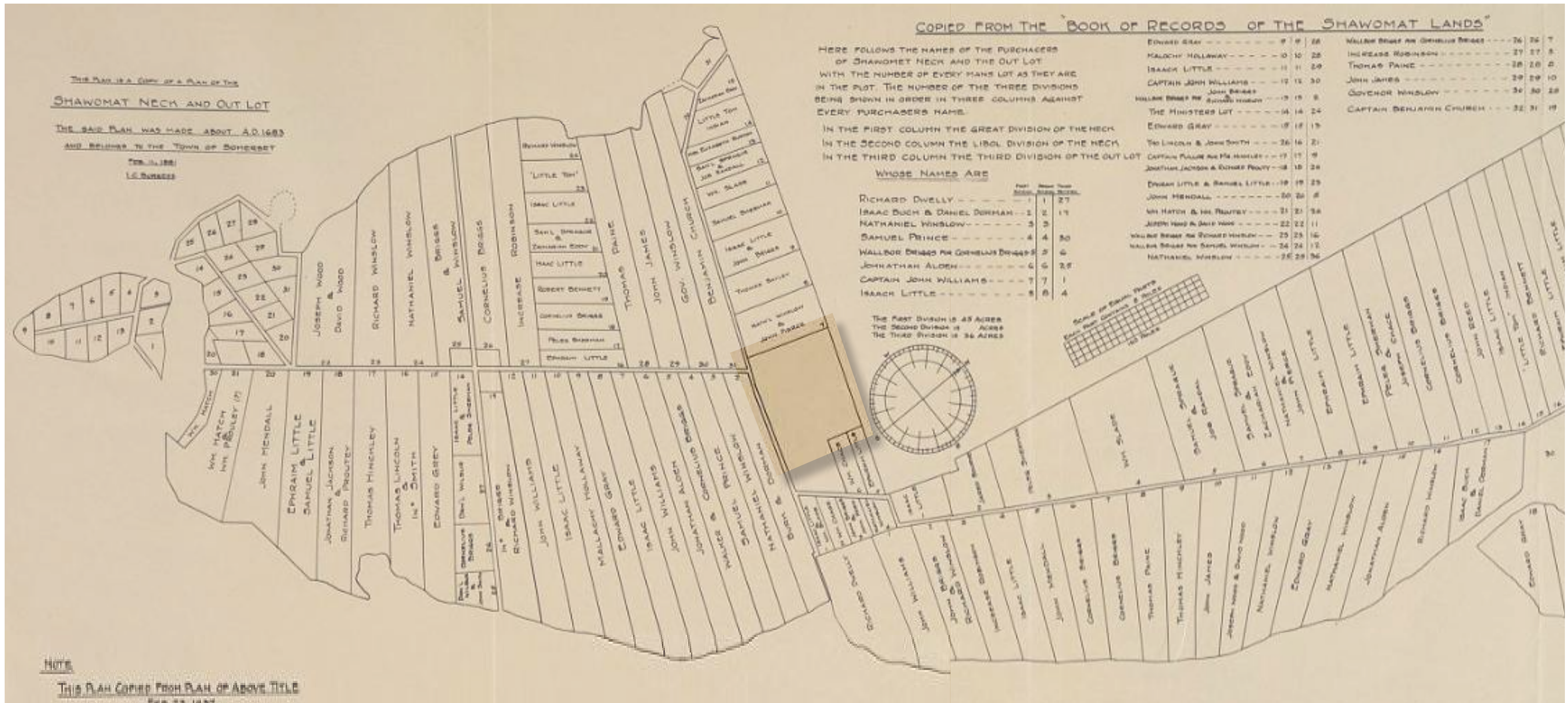


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## SHAWOMET PURCHASE

THE same English legal logic that had ordered the quartering of King Philip as a traitor declared that the lands of all Indians participating in the war should be forfeited to the Colonies. They were to be sold and the proceeds used either to reimburse the Colonies for the war's expense or for the relief of disabled soldiers and the families of those killed.

Lands in this immediate vicinity thus seized and sold included those choice possessions of the Indians, no part of which they had ever been willing to sell: Assonet, Pokanoket, including Mt. Hope, and Shawomet Lands.

Mt. Hope was purchased mainly by men of Boston; Assonet by residents principally of Taunton and Dighton; and Shawomet by men of Plymouth, Marshfield and other contiguous Plymouth colony settlements.

As a means of disposing of Shawomet Lands without charge of favoritism; and possibly of increasing the proceeds; the Shawomet area was offered in a lottery in which 31 full shares were designated including a share for Captain Benjamin Church and one for Governor Winslow. Governor Josiah Winslow was the third generation of his family in succession to be governor of Plymouth colony; and the grandson of the first White Man to set foot on Shawomet Lands.

The gift to Captain Church combined an expression of admiration for that doughty warrior's achievements on behalf of the Colony with payment in part for the financial debt it owed him; a debt which it never came anywhere near paying and which finally ruined him.

Not all of the purchasers received a full share. Some had to be content with a half or a quarter while others had two and three full units. The method by which this division was arrived at does not appear.

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## Site Development

### Site Analysis Narrative

The existing Somerset Middle School building was constructed in 1965, expanded in 1969, and is located on approximately 25.21 acres of land. The building is located at 1141 Brayton Avenue (Assessor's Parcel ID 273/005.B-0000-0344.0) in Somerset, Massachusetts. The school is accessible via one two-way driveway from Brayton Avenue and has frontage on Read Street. The site is furnished with two paved parking areas, paved driveways, pedestrian access from Brayton Avenue and Read Street, multiple grassed athletic fields, and

landscaping surrounding the building incorporating concrete sidewalk access to Brayton and Read Streets.

The school site is bounded by the Montaup Electric Company power lines and Jeffrey Street to the north, Brayton Avenue to the east, Correia & Sons Market, South Elementary School and Read Street to the south, and Hot and Cold Lane to the west. The other nearby uses are characterized by single-family housing and some religious institutions.

#### **Zoning Regulations**

According to the "Official Zoning Map Town of Somerset, MA – As Amended March 19, 2018" the Site is located in an area zoned Residence District (RD). The Zoning Ordinance indicates the following would control the development on this Site:

#### RES – Residence District

Minimum Lot Area in Square Feet	20,000 <sup>1</sup>
Minimum Frontage in Feet	100
Minimum Front Yard in Feet	25
Minimum Side Yard in Feet	15 <sup>1</sup>
Minimum Rear Yard in Feet	15 <sup>1</sup>
Distance Between Buildings in Feet	15
Maximum Percent Lot Coverage	25
Maximum Building Height Feet	35
Maximum Building Height Stories	3
Maximum Height, Towers, Water Tanks, Antennae, Spires, Chimneys in Feet	65 <sup>2</sup>

<sup>1</sup> A minimum side and rear yard requirement of 5 feet for buildings not exceeding 120 sqft in gross floor area and 12 feet in height.

<sup>2</sup> Detached Chimneys and antennae may not exceed 35 feet.

The off-street parking capacity requirements for schools in the Somerset Zoning By-Law are one space per 250 square feet of gross floor area. Off-street parking must be provided to service the net increase in parking demand created by new construction, additions, or change of use. All parking spaces must be clearly marked, and the lines must be maintained to be clearly visible at all times. The aisle between rows of parking spaces shall be a minimum of 22 feet wide. No open parking or loading space shall be located less than five feet from any lot line.

## Natural Environment

### Topography

A review of the 2012 USGS Topographic Quadrangle Map of Somerset, Massachusetts indicates that the surface elevation of the site is approximately 120 to 150 feet above mean sea level. The topography of the site generally slopes to the east. This information has been verified by a preliminary survey of portions of the site.

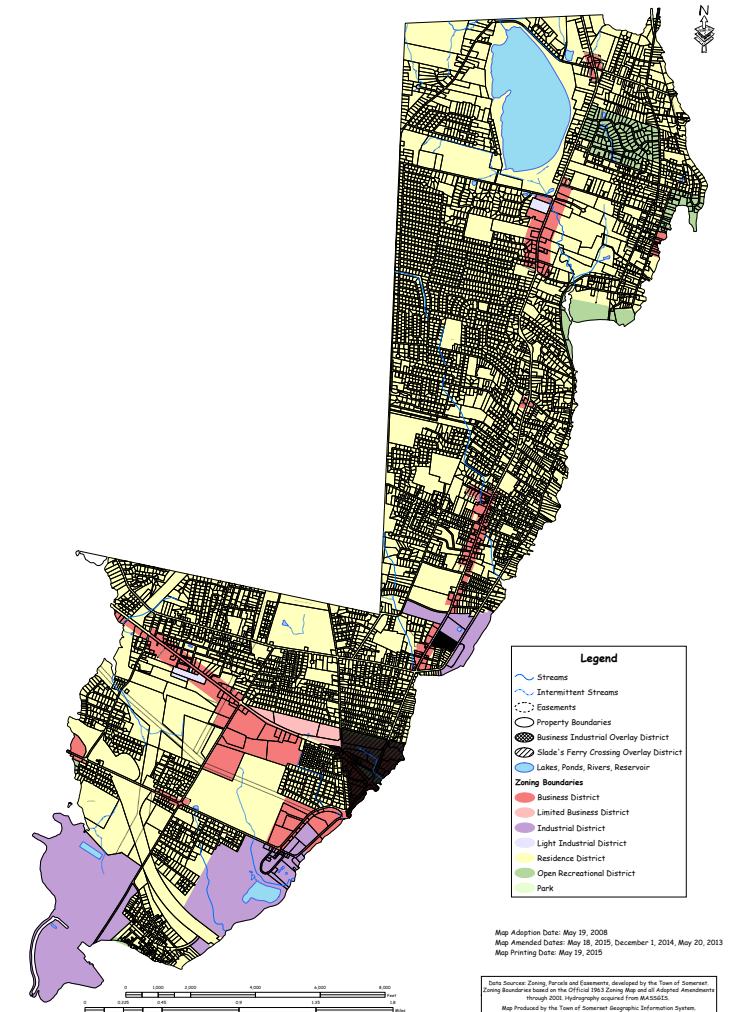
### Soils

Seasonal high groundwater is 20–25 inches deep in these soils, and soil textures in the Cd horizon are fine sandy loam. Not ideal for infiltration based on groundwater depth. Further testing to be performed. This information has been verified by a preliminary geotechnical investigation of portions of the site.

### Wetlands

After review of the Massachusetts GIS data layers (MassGIS) as well as a site visit by a wetland scientist, it does appear that there are wetlands located in the north western quadrant of the Site in undeveloped forest. A Notice of Intent (NOI) shall be filed with the Conservation Commission for any work proposed within one hundred feet of the Protected Resource Area in accordance with the Massachusetts Wetlands Protection Act. The presence of the wetlands does not prohibit proposed work; however, they may require a permit and request for determination through the Conservation Commission.

According to the Flood Insurance Rate Maps available through FEMA (Federal Emergency Management Agency), this Site is located entirely in Zone X (Figure 1). A Zone X is defined by FEMA as area determined to be outside the 500-year flood and protected by levee from 100-year flood. There are no restrictions for development in the Zone X area.



### Rare Species & Cultural Resources

Information regarding rare species was obtained from the MassGIS Rare Species and Priority Habitat data layer showing data recorded by the NHESP in the State Registry. Review of this information indicates that there are no areas of Estimated or Priority Habitat mapped on or in the vicinity of the site.

## Infrastructure

### Roadways and Parking Lots

The school is accessible via one two-way driveway from Brayton Avenue and also has frontage on Read Street.

The site is furnished with paved parking areas and paved driveways off Brayton Avenue. Future development and parking options could look to Brayton Ave and Read Street as potential entrance/exit locations for vehicles.

Utilities

The existing conditions utility information was found using aerial imagery. Future development options would require that the existing utilities be verified, located, and included in design plans. Streets, drainage, and utilities shall be constructed pursuant to a special permit and shall be designed and installed in accordance with the standards of the Subdivision Regulations of the Planning Board in effect at the time of the filing of an application for a special permit or revision authorization as the case may be.

Sewer

During design, the capacity of the existing sewer line will need to be evaluated to determine if it can handle the increased use. Future development would require the replacement and/or removal of the sewer services, the installation of an appropriately-sized PVC sewer service, and the installation of a new exterior grease trap to service cafeteria functions.

Water

Three fire hydrants are located on Brayton Avenue. During design, a hydrant flow test will be required to determine available flow for fire suppression system design. For development, additional information is needed to determine the size and location of the existing domestic and fire protection connections. Once this information is in hand, the need to relocate or replace the existing services to service the new school can be evaluated.

Drainage

Aerial imagery shows two catch basins in the landscaped area along Brayton Avenue and within the street, as well as in the parking lot due north of the school building, and within the driveway. The future development drainage design will need to be re-designed to meet the Massachusetts Department of Environmental Protection stormwater standards, the Town of Somerset Standards of the Subdivision Regulations of the Planning Board, and will require quantity and quality mitigation measures.

Gas

Liberty Utilities is the supplier of natural gas to the Town of Somerset. Future development options would require that the existing system be located and analyzed for capacity. Coordination should occur with National Grid regarding any service improvements.

Electric

NSTAR Electric is the supplier of electricity to the Town of Somerset. Electricity also appears to be supplied via solar panels on the roof of the building. A transformer is located on the north side of the school building, and the main electrical room for the school is located in the basement. Future development options would require that the existing system be located and analyzed for capacity, and the need for a new transformer should be evaluated prior to finalizing site plans. Coordination should occur with NSTAR Electricity regarding any service improvements.

Telecommunications

Future development options would require that the existing system be located and analyzed for applicability to current needs. Coordination should occur with the Somerset Schools Information Technology Officer and the relevant telecommunication companies regarding any service improvements.

**Site Planning Requirements**Somerset Zoning Board of Appeals

The project is considered an institutional use, which is a permitted use in the zoning districts noted previously.

Somerset Planning Board

The Somerset Planning Board will review plans for the construction of ways or the installation of municipal services, and will involve Town departments in their review process.

Somerset Conservation Commission

Should any proposed construction activity fall within a jurisdictional area, it will trigger review by the Conservation Commission. If this is the case, VERTEX will prepare and submit a Notice of Intent (NOI) to the Somerset Conservation Commission for review under the Massachusetts Wetlands Protection Act.

Somerset Highway Department

The project may require permitting through the Highway Department for a curb cutting permit, or a permit to enter the street drain. The Contractor awarded the contract will be responsible for obtaining these permits.

Somerset Fire Department

The project requires a commercial plan review by the Somerset Fire Department. A meeting with the Fire Chief will be arranged to review emergency vehicle accessibility.

Somerset Building Department Certificate of Occupancy

The Somerset Building Department is responsible for reviewing and issuing all Building, Mechanical, Plumbing, Gas, and Electrical Permits. Zoning compliance and code enforcement issues are also addressed by this department. Upon substantial completion of the project, the Contractor shall submit certification from the Professional Engineer who prepared the Final Site Plan to the Building Inspector for approval. Upon approval, the Building Inspector will issue a Certificate of Occupancy.

Somerset Historic Commission

The school site does not include any historic buildings, nor does it abut any historic districts or parcels.



Massachusetts Department of Environmental Protection (MassDEP):

It is not anticipated that any proposed construction activity will trigger review by Mass DEP.

US EPA National Pollutant Discharge Elimination System (NPDES)

It is anticipated that this project will result in the disturbance of one or more acres of land and therefore will require filing a NPDES construction general permit with the EPA. The Contractor awarded the contract will be responsible for filing the NPDES General Permits and preparing project-specific Stormwater Pollution Prevention Plans. The Contractor must submit a Notice of Intent fourteen days prior to any earth disturbing activities.

Massachusetts Environmental Policy Act (MEPA)

It is not anticipated that any proposed construction activity at the site will trigger MEPA review.

**Summary**

There are no constraints which prohibit this site from serving as a viable location for a newly constructed school. The soil conditions that are expected to be found during soil evaluations will limit the amount of stormwater infiltration possible, so the focus should be on stormwater quality improvements and reducing runoff rates from the site via infiltration. If these considerations are addressed, we do not believe there are any constraints which preclude this site from being a viable candidate for future school development.

**Commercial Property Record Card**

Parcel ID: 273/005.B-0000-0344.0 MAP: 005.B BLOCK: 0000 LOT: 0344.0 Parcel Address: 1141 BRAYTON AVE FY: 2020

PARCEL INFORMATION							Use-Code: 934	Sale Price:	Book: 0	Road Type: T	Inspect Date: 09/29/2019					
Owner: TOWN OF SOMERSET							Tax Class: E	Sale Date:	Page: 0	Rd Condition: P	Meas Date:					
Address: 140 WOOD ST SOMERSET MA 02726							Tot Fin Area: 105949	Sale Type:	Cert/Doc:	Traffic: M	Entrance: X					
							Tot Land Area: 25.210	Sale Valid:	Water: PS	Collect Id: RG						
							Sewer:	Grantor:	Sewer: SW	Inspect Reas:						
							Exempt-B/L%	Resid-B/L%	Comm-B/L%	Indust-B/L%	Open Sp-B/L%					
COMMERCIAL SECTIONS/GROUPS							LAND INFORMATION									
Section:	ID:101	Use-Code:351					NBHD CODE: 3	NBHD CLASS: 3	ZONE: R1							
Category	Grnd-FI-Area	Story Height	Bldg-Class	Yr-Built	Eff-Yr-Built	Cost Bldg	Seg	Type	Code	Method	Sq-Ft	Acres	Influ-Y/N	Value	Class	
5	105229	1.0	C	1965	1990	20019300	1	P	904	V	435600	10.000	N	2,200,000		
2							2	R	904	A	662548	15.210	N	121,680		
Groups:							DETACHED STRUCTURE INFORMATION									
Id	Cd	B-FL-A	Firs	Firs			Str	Unit	Msr-1	Msr-2	E-YR-Bit	Grade	Cond	%Good P/F/E/R	Cost	Class
1	351	76140	1	1			AS	S	87120		1980	A	A	25///25	62,500	3
2	351	29809	1	1			LI	C	30		1980	A	A	25///25	16,200	3
							C6	F	3000		1970	A	A	25///25	14,400	3
							VALUATION INFORMATION									
							Current Total:	22,434,100	Bldg:	20,112,400	Land:	2,321,700	MktLnd:	2,321,700		
							Prior Total:	21,788,600	Bldg:	19,466,900	Land:	2,321,700	MktLnd:	2,321,700		

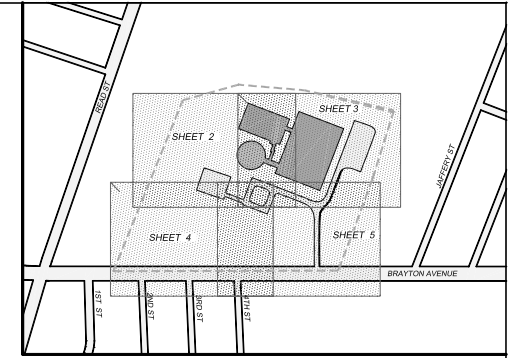


# Site Development

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## Site Survey





**KEY MAP**  
(NO SCALE)



SYMBOL LEGEND	
● CB	CATCH BASIN
○ GC	GAS GATE
⊕	HYDRANT
⊛ LP	LIGHT POLE
⊙ MH	MANHOLE
⊙	SEWER MANHOLE
⊙ S	SIGN
⊛ TS	TRAFFIC SIGNAL
←	TRAFFIC FLOW
△	TRAVERSE POINT
○	UTILITY POLE
○ WG	WATER GATE

LEGEND	
BCB	BITUMINOUS CONCRETE BERM
BCW	BITUMINOUS CONCRETE WALK
BIT CONC	BITUMINOUS CONCRETE
CC	CONCRETE CURB
CLF	CHAIN LINK FENCE
CONC/CNC	CONCRETE
CPD	CONCRETE PAD
CSW	CONCRETE SIDEWALK
DYL	DOUBLE YELLOW LINE
ELEC	ELECTRIC
EP	EDGE OF PAVEMENT
GC	GRANITE CURB
GR	GRASS
GW	GUY WIRE
MHR	METAL HANDRAIL
OHW	OVERHEAD WIRES
RFL	REFLECTOR
S	SIGN
SGC	SLOPED GRANITE CURB
TRANS	TRANSFORMER
TYP	TYPICAL
UG	UNDERGROUND
UGC	UNDERGROUND CONDUIT
UC	UTILITY COVER
UP	UTILITY POLE
XX* DEC/D	DECIDUOUS TREE



**LOCUS MAP**  
SCALE: 1"=500'

- NOTES:**
1. THE ELEVATIONS SHOWN ON THIS SURVEY ARE BASED ON NAVD 88 DATUM AND WERE GENERATED VIA RTK GPS SURVEY MEASUREMENTS MADE USING LEICA OS15 RECEIVERS IN CONJUNCTION WITH THE SMARTNET NORTH AMERICA RTK NETWORK.
  2. THE COORDINATES SHOWN ON THIS SURVEY ARE BASED ON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM - MAINLAND ZONE 2001 AS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83). THE COORDINATES WERE GENERATED VIA RTK GPS SURVEY MEASUREMENTS MADE USING LEICA OS15 RECEIVERS IN CONJUNCTION WITH THE SMARTNET NORTH AMERICA RTK NETWORK.
  3. SITE IMPROVEMENTS & TOPOGRAPHY SHOWN HEREON ARE BASED ON AERIAL MAPPING PREPARED BY EASTERN TOPOGRAPHICS USING DIGITAL TERRAIN MODELING (DTM) METHODS WITH KLI ATLAS SOFTWARE. BUILDING OUTLINES REPRESENT PERIMETER ROOF LINES, WITH THE EXCEPTION OF LABELING SITE IMPROVEMENTS, NO FIELD EDITING OF THE AERIAL MAPPING WAS PERFORMED BY WELCH ASSOCIATES LAND SURVEYORS, INC..
  4. TRAVERSE POINTS, MONUMENTS, & CONTROL POINTS USED FOR AERIAL MAPPING ARE BASED ON AN ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY WELCH ASSOCIATES LAND SURVEYORS, INC. BETWEEN AUGUST 22, 2018 & AUGUST 27, 2019.
  5. PROPERTY & STREET LINES SHOWN HEREON ARE APPROXIMATE ONLY. WELCH ASSOCIATES LAND SURVEYORS, INC. HAS NOT PERFORMED A PROPERTY LINE RETRACEMENT AS PART OF THIS SURVEY.
  6. CIRCLED LOT NUMBERS ARE TOWN OF SOMERSET ASSESSOR'S LOT IDENTIFICATION NUMBERS.
  7. THIS PLAN IS COPYRIGHT PROTECTED. IT IS A VIOLATION OF COPYRIGHT LAWS TO EDIT THIS PLAN AND CONTINUE TO REPRESENT IT AS THE ORIGINAL WORK OF WELCH ASSOCIATES LAND SURVEYORS, INC.. IT IS ALSO A VIOLATION OF COPYRIGHT LAWS FOR ANYONE TO REPRESENT THIS PLAN AS THEIR OWN ORIGINAL WORK, WITH OR WITHOUT EDITING.

TRAVERSE POINT TABLE			
POINT #	NORTHING	EASTING	DESCRIPTION
1	2729010.0018	748618.2984	MN-SET
2	2729354.1947	748626.2117	MN-SET
3	2729831.7422	748542.6061	MN-SET
4	2730291.1932	748462.6587	MN-SET
5	2730734.4110	748342.0138	MN-SET
6	2730260.2508	748052.7391	MN-SET
7	2730479.9044	747629.4891	RBP-SET
8	2730128.9992	747650.0833	RBP-SET
9	2729825.6271	747650.8777	MN-FND
10	2729589.7143	747665.1514	MN-SET
11	2729181.1033	747493.9884	MN-SET
12	2729097.0851	748019.6161	MN-SET

PARCEL DATA	
ASSESSOR'S PARCEL ID:	273/005-B-0000-0344.0
CURRENT OWNER OF RECORD:	TOWN OF SOMERSET
DEED REFERENCE:	---
PLAN REFERENCE:	---

**PROGRESS**  
**11-18-19**

DATE

PAMELA M. WELCH AS AGENT FOR WELCH ASSOCIATES LAND SURVEYORS, INC.  
REGISTRATION NUMBER 36129

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SHEET 1 OF 5

**WELCH**  
Associates Land  
Surveyors, Inc.  
219 North Main Street  
West Bridgewater, MA 02379  
(508) 580-6096 FAX, (508) 580-4962  
WWW.WELCHINC.COM



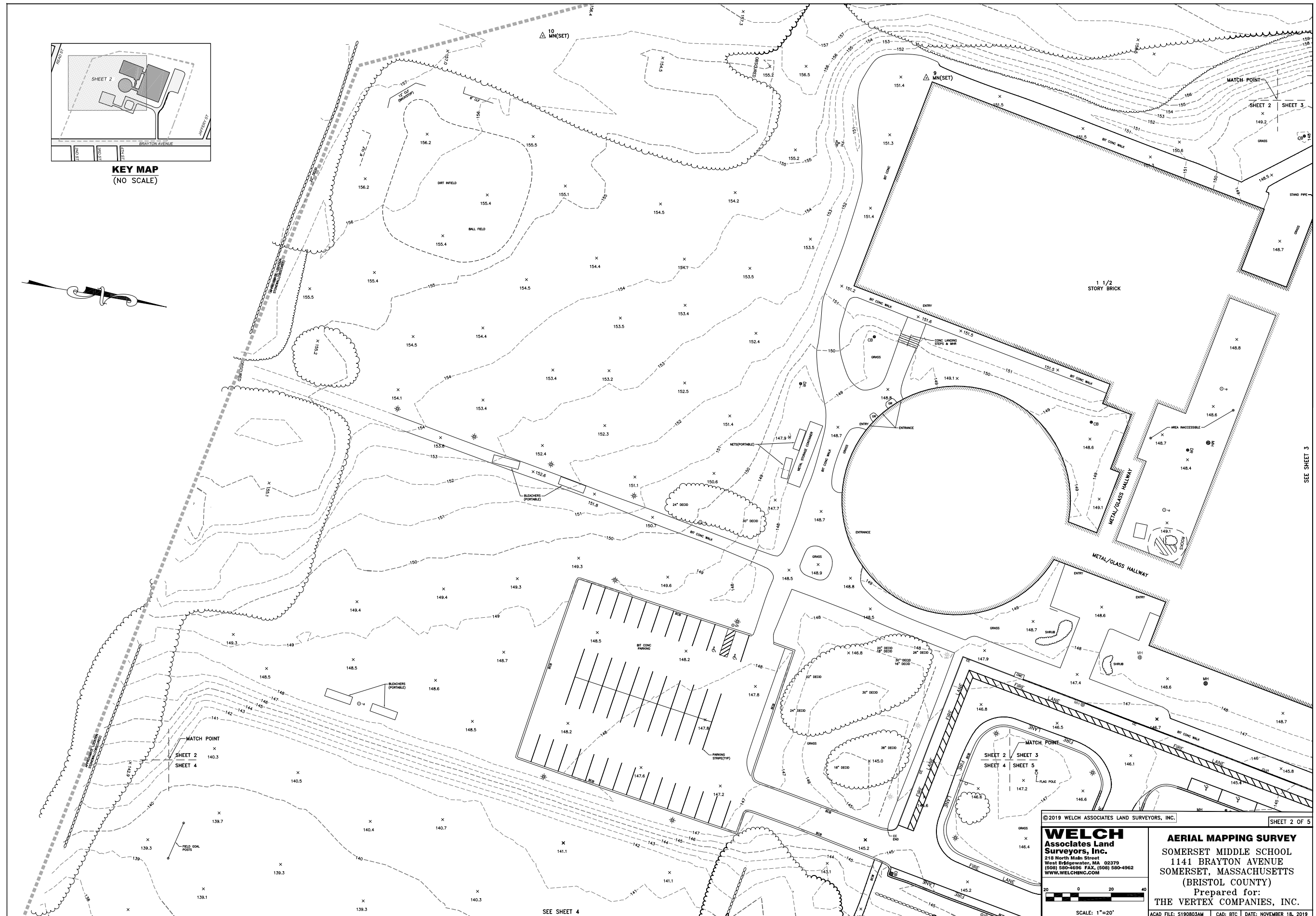
SCALE: 1"=20'

**AERIAL MAPPING SURVEY**  
SOMERSET MIDDLE SCHOOL  
1141 BRAYTON AVENUE  
SOMERSET, MASSACHUSETTS  
(BRISTOL COUNTY)  
Prepared for:  
THE VERTEX COMPANIES, INC.

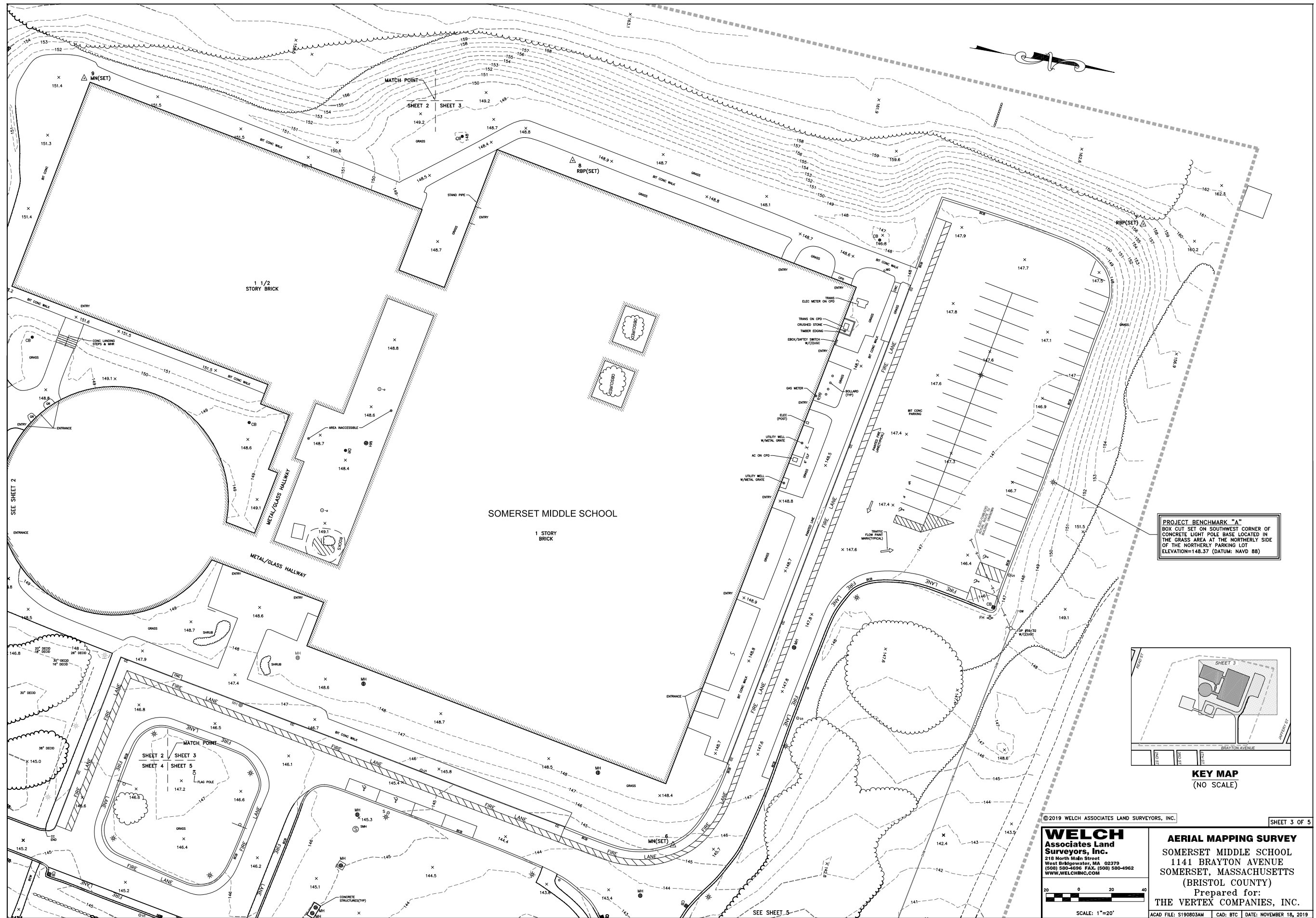
ACAD FILE: S190803AM | CAD: BTC | DATE: NOVEMBER 18, 2019



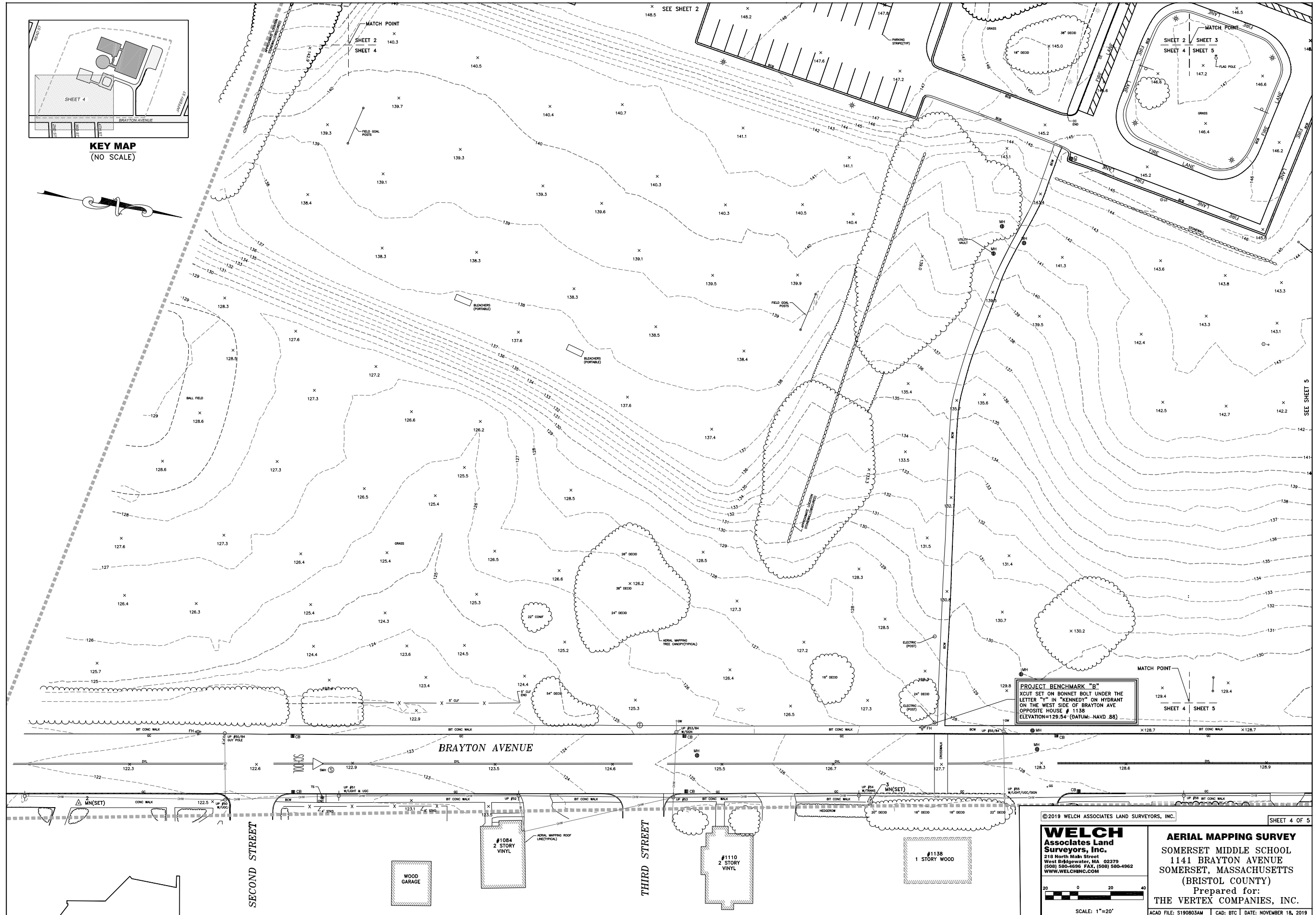




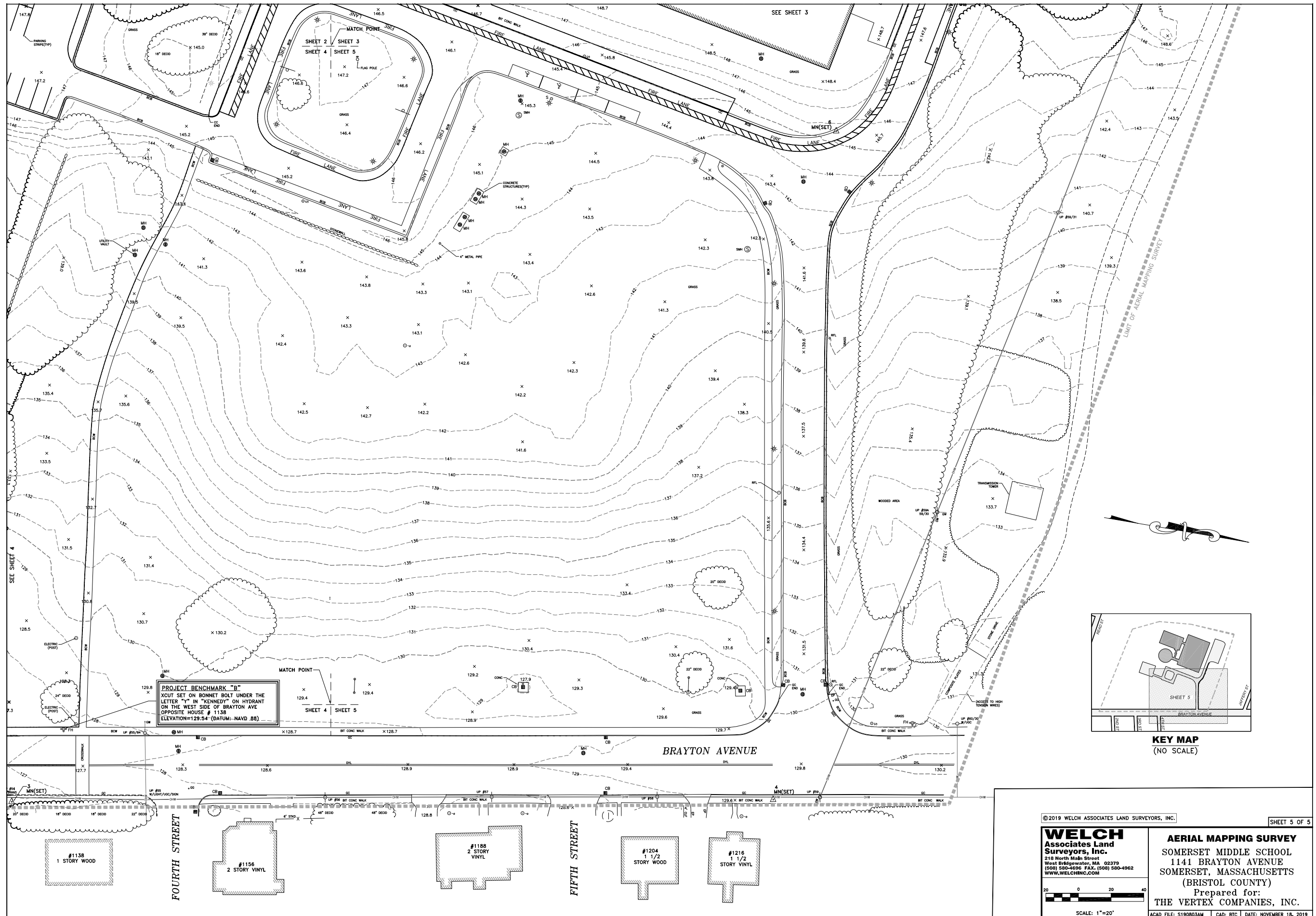
















## Site Development



## Geotechnical Evaluation

**A**i3 Architects, LLC secured the services of Pare Corporation to conduct a preliminary geotechnical report for the Somerset Middle School located on 1141 Brayton Avenue in Somerset, Massachusetts. Pare completed preliminary explorations at the Site in an attempt to obtain preliminary subsurface information and to provide preliminary recommendations for foundation design and construction. Pare performed the following services:

- Coordinated field explorations with Ai3 Architects, LLC; Pare Corporation; and the Town of Somerset.
- Engaged a drilling subcontractor to provide borings.
- Provided geotechnical engineers at the Site to coordinate and observe the borings, describe the soil samples, and prepare field logs.
- Submitted soil samples for grain-size analysis.
- Prepared the geotechnical report containing the results of the preliminary subsurface explorations and the preliminary recommendations for foundation design and construction.

These tests and samplings were performed in compliance with MSBA regulations identified in Module 3, Feasibility Study: Article 3.1.4 Evaluation of Existing Conditions. A second phase of geotechnical investigation will be performed in the Design Development phase of the project.

For a complete copy of the Preliminary Geotechnical Report, refer to **Appendix G**.



## Site Development



## Phase I ESA Report

**A**i3 Architects, LLC secured the services of The Vertex Companies, Inc. ("VERTEX") to conduct a Phase I Environmental Site Assessment (ESA) for the Somerset Middle School located on 1141 Brayton Avenue in Somerset, Massachusetts. The purpose of the ESA is to evaluate the Site with respect to potential presence of "Recognized Environmental Conditions" (REC). The ESA included review of the following:

- Records review: Review of historical and regulatory records readily available from state, federal, and local agencies concerning the site and nearby properties.
- Site Reconnaissance: Evaluation of the Site for indications of REC and to identify general uses of abutting parcels.
- Interviews/Inquiries: Interview of readily available persons associated with the Site Owner and occupants of the Site relative to Site history and use.
- Interviews with local government officials: Collect information and conduct inquiries of the local regulatory/licensing agencies regarding the Site.

The ESA was performed in compliance with MSBA regulations identified in Module 3, Feasibility Study: Article 3.1.4 Evaluation of Existing Conditions.

For a complete copy of the Phase I ESA Report, refer to **Appendix H**.





# Evaluation of Existing Conditions

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## Floor Plans

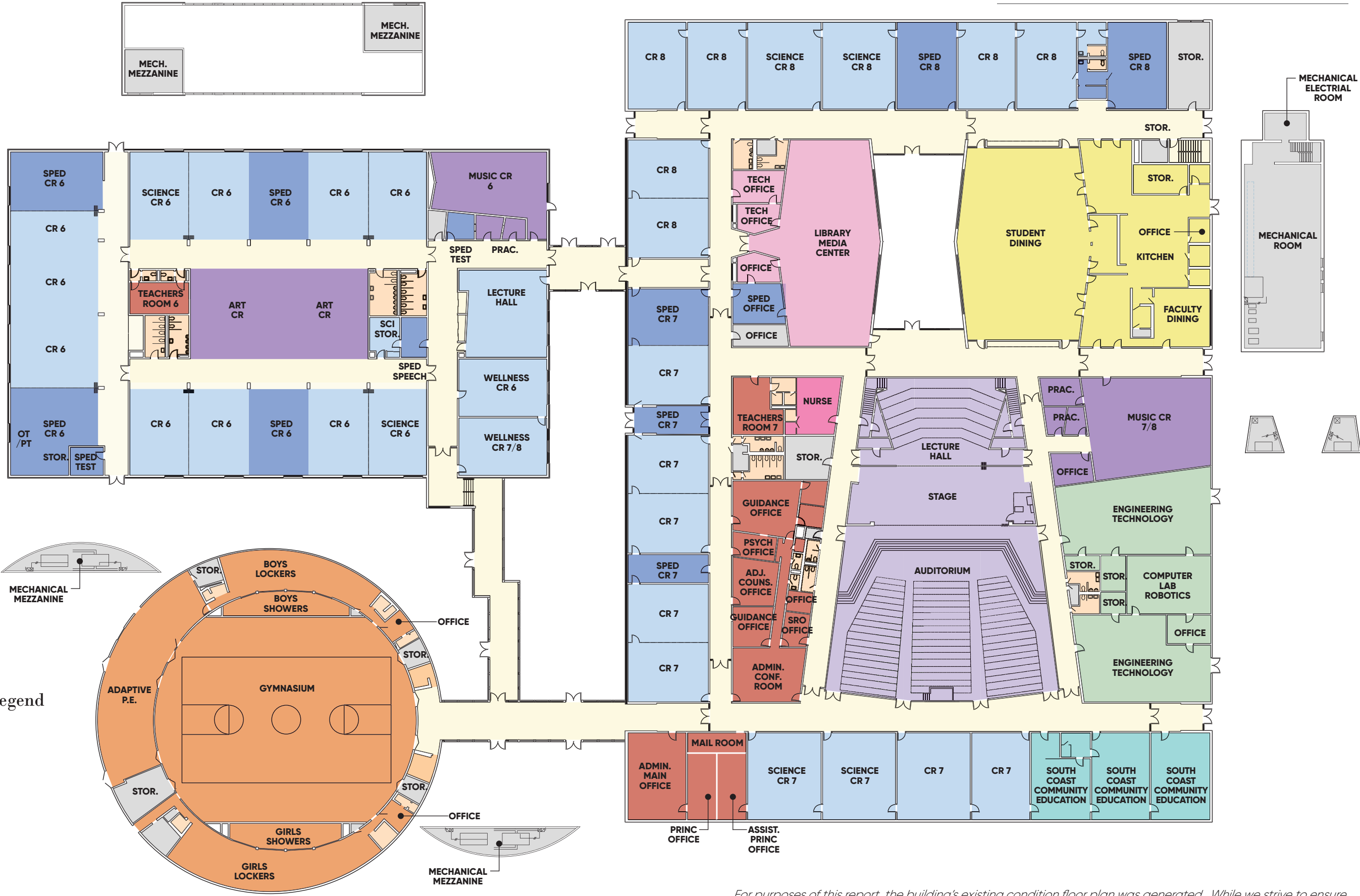
### ***Existing Somerset Middle School***

**1141 Brayton Avenue**

**Somerset, Massachusetts 02726**

- Single-story concrete and masonry structure
- Situated on 26 acres of land
- Total of 124,900 square feet
- Serves grades 6-8: Currently 651 students





MSBA Space Summary Legend

Educational Category

- Core Academic Spaces
- Special Education
- Art and Music
- Vocational and Technology
- Health and Physical Education
- Media Center
- Dining and Food Service
- Medical
- Administration and Guidance
- Custodial and Maintenance
- Circulation
- Toilet rooms

For purposes of this report, the building's existing condition floor plan was generated. While we strive to ensure that the existing conditions are complete and whole, for the purposes of the feasibility study, a full on-site existing conditions survey was not conducted to confirm exact locations and dimensions of every wall, door, or other element. The plans provide a starting point for the evaluation of space uses and adjacencies and existing program square footages.





## Evaluation of Existing Conditions

### Architectural Review: Educational Analysis

The existing Somerset Middle School is located on a parcel with a total area of 26+/- acres. The campus contains the Somerset Middle School, South Elementary School, athletic fields, and a largely undeveloped forest. The site is bound by residential properties to the north and east, and town-owned parcels to the west and south. The site is accessible by vehicles from the north and south by Brayton Avenue. There is a footpath to the south of the site which connects to the sidewalk along Read Street and a second footpath to the east of the site which connects to the sidewalk along Brayton Avenue. The single-story, 124,900 square foot building was originally constructed in 1964, with an "open-classroom" concept addition constructed in 1969. The building's structural system consists of a steel structural frame (beams & columns), and masonry (CMU) walls supporting concrete floor (mechanical room) and roof slabs. The classrooms are vastly undersized based on the current educational guidelines and requirements, and the building's structural system would make it extremely difficult and cost-prohibitive to reconfigure. The exterior walls consist of masonry (brick) and large spans of single pane glazing resulting in thermal loss throughout.

#### **21st Century Middle School Learning Environments**

The ideal middle school educational environment includes many key factors. Modern 21st Century middle schools include classrooms that are "Laboratories for Learning" where all of the necessary environmental factors, technology integration, and spatial configurations work to create "ideal" settings to teach and to learn. These modern classrooms allow teachers to introduce "real world" examples of instructional material through

the seamless integration of video Internet technology. They also allow students to present and facilitate with their peers, giving them invaluable exposure to learning, presentation, and collaboration skills. Lighting, ventilation, and carbon dioxide levels are all monitored in a modern middle school and adjusted automatically to create ideal environmental conditions. Teachers have collaborative planning and work areas that allow them to share critical planning and development ideas for their coursework. Team teaching and presentation areas are integrated into the academic environment in a manner similar to that of a corporate planning and work environment. Core facilities such as Library/Media Centers have become highly advanced media retrieval centers and are located in close proximity to all academic functions to allow for key sharing of valuable resources. Academic zones are organized for quiet separation from noise-generating zones such as cafeterias and gymnasiums. Their layouts and plan organizations are structured to allow flexible teaming and grade level configurations. Corridors and hallways are organized and designed to create "experience and exposure" in addition to providing functional movement patterns. Performing and practical arts facilities include highly advanced opportunities for students to explore their talents at a critical age when many of their future professional talents are evolving.

The Somerset Middle School is an old, “tired” building that has been well maintained. The organization and layout of the existing Somerset Middle School does not easily lend itself to conversion as a 21st Century middle school based on the current student enrollment. Today, middle school students work in groups and teams, completing projects and utilizing technology that could never have been imagined when the building was designed. Unfortunately, the classrooms created in 1965 and 1969 are extremely inadequate in providing necessary space, amenities, technology, acoustics, lighting, and security found in a modern middle school classroom. Its walls cannot be efficiently relocated due to the existing structural system. The 50-year-old mechanical, electrical, and plumbing systems are well beyond their intended life expectancy and are failing. The poor condition of these systems is detailed in the following sections of this report in the Electrical, Mechanical, and Plumbing review.

The building requires a comprehensive renovation of the building systems and components, the cost of which would trigger full handicap accessibility and state fire code compliance throughout the building. The required comprehensive renovation at the school is a significant project and extends well beyond a series of capital improvements.

### ***Somerset Middle School's Learning Environment***

This 50+ year old building was at the forefront of educational design in the early 1960s. The building was designed with one central student dining area and two courtyards with oversized corridors adjacent to the courtyard areas. The distribution of the courtyard areas allowed for abundant levels of natural light into the library media center and student dining. The Visioning session attendees agreed that the ideal dining configuration for the Somerset Middle School was a single student commons area that could potentially be subdivided into two dining areas. This would allow for two school lunch periods and the separation of 5th & 6th grades from the 7th & 8th grades.

### ***Socialization and Learning***

Social skills and the need to communicate outside of the project/instructional environment is a key element in promoting positive student development. Students must have the opportunity to socialize with their peers without being confined to the traditional restrictions of a “cafeteria”, where students are “herded” into a space and directed to function in a stereotypical way. Schools where social dining is distributed throughout the school environment with less restrictions and/or boundaries have proven to promote significantly more student collaboration while simultaneously reducing discipline problems. The student dining area can also play a significant role in parent and community interaction with the school community by providing flexible space which supports

presentations, programs, and events. It can serve as one of the primary social hubs of not only the school, but also the entire Somerset community.

### ***Expanded Educational Space***

One could argue that the typical school corridor is one of the most underutilized spaces in a typical educational facility. In a 21st Century school, these “corridors” should instead become part of the team learning environment with transparency to the classroom such that they can be utilized throughout the school day as an area for small group study, independent research, and numerous other academic pursuits.

The Somerset Middle School staff has access to two exterior courtyard areas and one student dining area. The staff has taken full advantage of these spaces and utilize them not only for student dining but also for break-out classrooms, team learning environments, after-school programs, robotics, aquaponics & hydroponics, and gardening.

The school staff frequently works with students in small groups outside a typical classroom environment. One of the goals of the new and/or renovated middle school is to eliminate these “corridors” as much as possible and keep the concept of the break-out spaces that are currently being utilized in the existing middle school. The architecture should support these spaces as viable, usable teaching environments; something the existing school is currently lacking as they were initially designed strictly as student dining areas. The staff recommended these break-out areas be embedded in the academic neighborhoods and have visible connections with the adjacent classrooms.

### ***Community Connections Through Entry & Exhibit***

The new and/or renovated Somerset Middle School must be a welcoming environment for not only students and staff but also for community members. The interaction of community members and parents, as well as the impression they receive during their visit to the school, is important. Most visitors will not have the opportunity to tour throughout all areas of the school, and certainly will not have the opportunity to observe the activities and products of student academic work within the individual learning spaces.

The new and/or renovated building should place education and student activity on display for all to absorb by providing opportunities for fixed exhibits or video display. This kind of exhibit opportunity should not be limited to just the displays at entry points accessible to visitors, but should also be inherent within the academic zones; allowing students to present and display their project work to other students and to the public.

The art instructional studio incorporated and developed at the High School has been an incredible success within the community as part of the educational program, and the participants, content coordinators, and administrators have

identified the positive educational impact this type of space would have at the middle school level and expressed their desire to incorporate it into a proposed solution.

### ***Small Teams & Personalization / The Integration of STEAM***

Teaching teams and flexible project or instructional spaces are key elements in the personalization of education for all students. One of the key components of a 21st Century school is how the building addresses the need to break down the larger school population into grade level communities and even smaller learning teams. These learning communities must be created in a manner which promotes safety, identity, personalization, pride, respect, belonging, support, and confidence. They must recognize that these feelings can be fostered by a well-organized community which responds to student needs from morning arrival until end-of-day departure.

The Somerset School District recognizes the importance of establishing a positive connection between each student and staff member, which is why the school organization is currently broken down into grade levels and teams.

The modern 21st Century middle school environment supports the integration of the key subjects of Science, Technology, Engineering, Arts, and Math (STEAM) into real world business and scientific applications to help students understand not only the importance of these topics individually, but also the way they support each other. A focus on STEAM initiatives allows teachers and students to collaborate more successfully and engages the student population through a vibrant curriculum. The Media Center should include a video recording studio and technology project lab (virtual reality) that includes a student participating tech repair area.

### ***Media Center and the Distribution of Media***

The library media center should be a technology-rich media distribution and retrieval resource which students can utilize throughout the school environment. The functions of the library media center should be carefully considered throughout the planning process, as the focus on creating academic teams may warrant the need to satellite some resources to the individual teams or grade-level communities. Media research will occur in many places throughout the school environment, and distributing some resources while maintaining a core library media center may prove beneficial in creating a more dynamic environment.

### ***Flexible Project & Instruction Space: The Flexible Classroom***

Spaces utilized for 21st Century instructional practices should not segregate instruction from application. The modern comprehensive middle school environment must be a flexible

space that accommodates both instruction and application. It should allow for students to be creative and grow as learners throughout the course of their day. The Project Based Learning Labs that are dedicated to project based learning should be highly integrated into the academic classroom environment. During the Visioning session workshops, there was much discussion about the need for small group spaces integrated within the classrooms and classroom teams. These spaces require a high level of transparency for supervision and connectivity to remaining team spaces. There are also numerous physical characteristics required within these classrooms including ubiquitous technology and large-scale instructional walls allowing teachers to collaborate with both their students and their colleagues more easily.

The value and benefits of outdoor learning environments were discussed at the Visioning session workshops. The visioning participants, content coordinators, and administration expressed a desire to incorporate outdoor science classrooms, outdoor biolabs, fitness and nature trails, amphitheater, and grow gardens to enhance the science, health, and wellness curriculum.

### ***Educational Plan Organization (Deficiencies)***

The Somerset Middle School is a 124,900 square foot, single-story building serving grades 6-8. The physical size and available classrooms suggest that it has a capacity of approximately 590 students based on current educational standards and the MSBA (Massachusetts School Building Authority) guidelines. Recent enrollment has been approximately 651 students, far exceeding the facility's capacity. The single-story facility includes one undersized student dining space, gymnasium, 600 seat auditorium and connecting lecture hall, music classroom and practice spaces for each grade level, art classrooms, tech & engineering labs, and academic classrooms, including an "open-concept" 1969 addition serving the 6th grade population.

The current building organization does not support a modern 21st Century middle school program. The majority of the educational spaces do not meet the minimum square foot size identified by the MSBA. Moreover, the classrooms are not organized in a manner that fosters collaboration, team teaching, and hands-on learning experiences. Additionally, the classrooms are not organized to allow the student population to be subdivided into smaller neighborhoods and teams of approximately 85-90 students. Research indicates that separating students into smaller teams allows teachers and facilitators to more closely monitor and foster student development and easily combine classrooms to facilitate cross discipline instruction. Students within a team have the ability to collaborate on the development of hands-on projects, which fosters a further understanding of the subjects they are studying.



Over the past twenty years, middle schools across the country have been migrating to this proven, successful model. Even schools that have poorly organized facilities such as the Somerset Middle School do the best they can to organize their students and teachers in teams to take advantage of the benefits of this approach. Unfortunately with the overcrowding and current building configuration, the Somerset Middle School cannot fully capitalize on this team configuration. Due to the existing building configuration, isolated math/science classrooms in the building require students to walk from one end of the facility to the other to attend these other related classes, and in turn, removes the students from a team environment.



The Library/Media Center is centrally located, and is in close proximity to the academic classrooms. Today's library/media center seeks an even more central and convenient location for use by students, educators, parents, and the general public. Fifty years ago, the "Library" included 10,000 volumes of hardcopy books and a card catalogue reference system. Today, it is a technology driven, data based, media retrieval center that promotes inquiry and research by teachers, students, parents, and the general public, with no limitation on subject matter or breadth of information. It is also a media and data distribution center where students create, direct, and broadcast information, presentations, and performances. In addition to being poorly located and lacking all modern amenities, the existing Somerset Middle School library is half of the required program size.



The building's administration area is located in the southeast portion of the original building, occupying former instructional classrooms. The building's public entrance is non-descript and not clearly identifiable from the site entrance or approach to the building. The entry door is a single door located on an interior corner of the glass corridor and solid brick exterior wall. In 2017, the District retrofitted the main office area to include a glass "holding area" / vestibule and transaction window to increase safety and security. Additionally, the School Resource Officer's office is located farther down the corridor with no direct view of either the main entrance or the Main Office.

**Educational, Spatial, & Organizational Capacity**

Capacity at the middle school is calculated by multiplying the number of available general classrooms and support areas by the appropriate number of students in each classroom. The Somerset Middle School has a current capacity of approximately 580 students under current educational standards, but recent enrollment has been approximately 651 students for grades 6-8, with projections remaining steady when construction is complete.



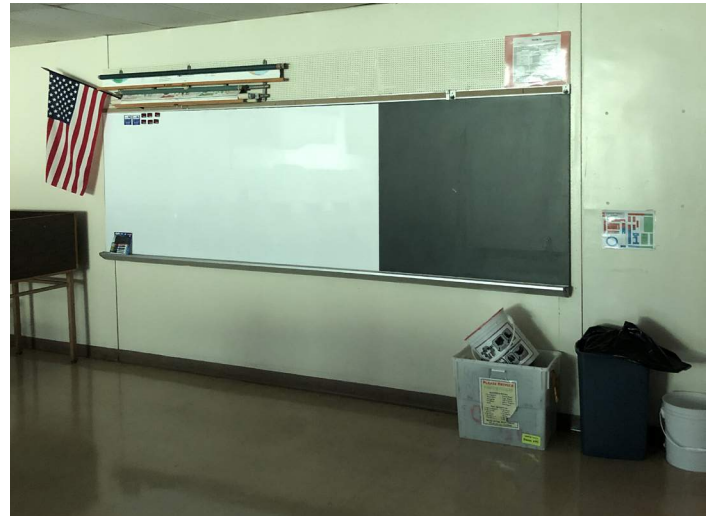
The Somerset Middle School is obviously housing significantly more students than the identified capacity. Additional educational space has been added in the existing building by converting spaces not originally intended as general

classrooms into classroom space and increasing the number of students in the classrooms. Storage rooms and closets have been converted into small group instruction, testing, and counseling areas.

In addition to being overcrowded, the following conditions exist:

### General Classrooms

To address the lack of classroom space, open area spaces within the addition (not intended for classrooms) were converted into four classrooms. These additional classroom spaces are undersized, lack natural daylighting, and the demising walls were not constructed to provide minimum acoustical separation between the classrooms. The mechanical system was not retrofitted or updated to accommodate these additional classrooms.



### Special Education

The current Special Education Program is undersized and is utilizing inadequate space for instructional, tutorial, and testing areas. The program and associated spaces do not meet square foot guidelines. IEP team meetings, professional meetings, data meetings, and departmental meetings are held in classrooms, hallways, or cafeteria space, severely hampering efficiency and productivity, and potentially compromising confidentiality. The current program severely lacks sub-separate classrooms and differentiated instruction and small group testing/instruction/reading pull-out spaces within neighborhoods/teams. Many non-traditional spaces are utilized for instructional purposes for the Special Education program.



### Science Classrooms

The current science classrooms have limited plumbing and do not provide an adequate space for delivering the science curriculum. The science lab plumbing is exposed and unprotected. A handicap accessible sink is not provided in the science classrooms. The science spaces also lack a connection to project labs or outside classroom space.



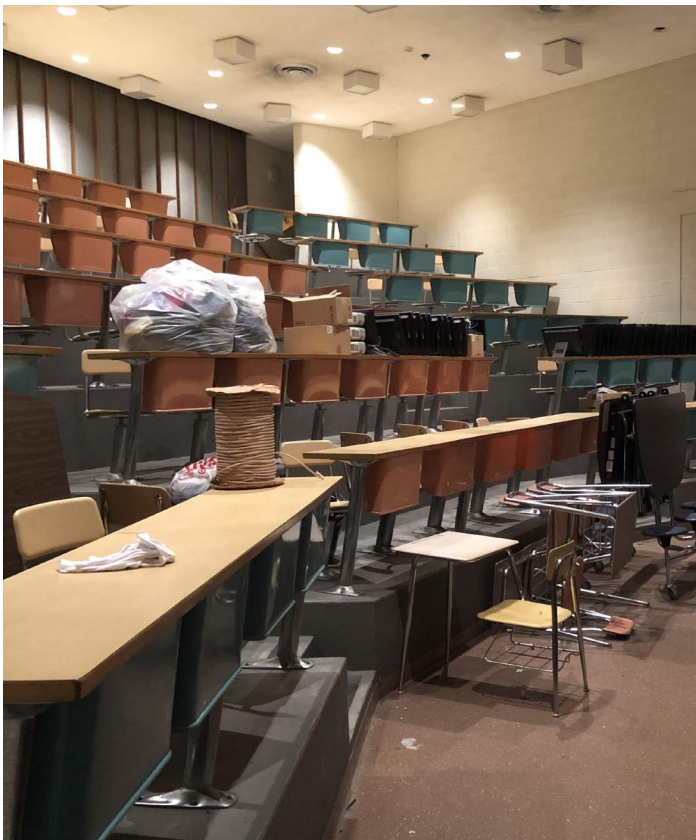
### Gymnasium

The existing middle school has 14 competitive athletic programs. Although the existing athletic and physical education square footage meets the MSBA regulations, its design in a circular building is extremely inefficient and results in functional compromises.



### Specialized Instruction (Art/Music)

The current art classrooms and band classroom are located in their original rooms since the facility opened in 1965 and expanded in 1969. The art room kiln has been moved into a storage closet and lacks sufficient ventilation. A science classroom adjacent to the band room has been converted into a choral classroom. The school does not have any culinary spaces and has limited technology education spaces.



### Planning Space

Due to the significant shortage of available education space, rooms that would normally be available for planning and storage have become classrooms. The school has a limited amount of conference rooms and two undersized teacher work rooms which are currently used as copy centers and general storage. The limited available space in these workrooms do not allow for teacher collaboration, forcing the staff to meet elsewhere. The building lacks professional planning and collaboration space; with IEP team meetings, professional meetings, data meetings, and departmental meetings being held in hallways, storage rooms, or cafeteria space.



### Receiving & Storage

The receiving area for the school is serviced by an overhead door at ground level. All deliveries, whether food or cleaning supplies, occur at this location. There is no pallet unloading area, making deliveries difficult. Storage space in the school is extremely limited as many of the storage spaces have become educational spaces.







## Evaluation of Existing Conditions

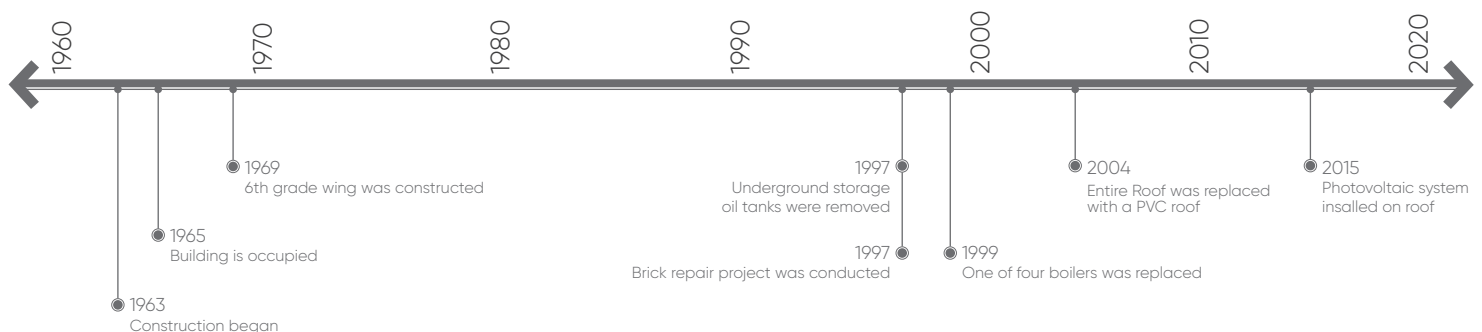
### Architectural Review: Building Analysis

The original Somerset Middle School was completed in 1965 with a gross square footage of 95,000 sf. The middle school was constructed in the later part of an era known as the “post-war boom” and the beginning of the “impulsive period”. The “post-war boom” resulted in a significant number of school buildings constructed of single-story, flat roofed structures enclosed in glass and metal windows and brick wall systems. Lightweight construction resulted in less expensive and easier to build school buildings that did not have the physical longevity of their predecessors. The “impulsive

period” included the development of school buildings with experimental educational concepts, including open-space educational classrooms and open-space schools. The Town of Somerset Facilities Department and School Department have maintained the facility exceptionally well over the past 50+ years. There is significant visible wear-and-tear as expected in a middle school of this period but, overall, the condition of the building illustrates the commitment and dedication from the Town in understanding the importance of maintenance and upkeep.

#### ***The following capital improvements have occurred since initial construction:***

- 1969 6th grade wing of approximately 32,000 square feet was constructed
- 1997 Underground storage oil tanks were removed
- 1997 Brick repair project was conducted
- 1999 One of the original four boilers was replaced with an AirCo Benchmark boiler to increase efficiency of the existing HVAC system
- 2004 The entire roof was replaced with a PVC roof
- 2015 PV system (936 solar modules at 300kw) was installed on the roof





## Exterior Review

### Foundation

The existing poured concrete foundation walls appear to be in good condition where visible. There are a few locations around the perimeter of the building where there are visual cracks and spalling concrete. There are localized instances of major deterioration such as at the loading dock slab. The structural evaluation in this report should be referred to for additional information.

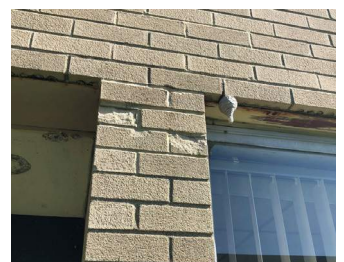
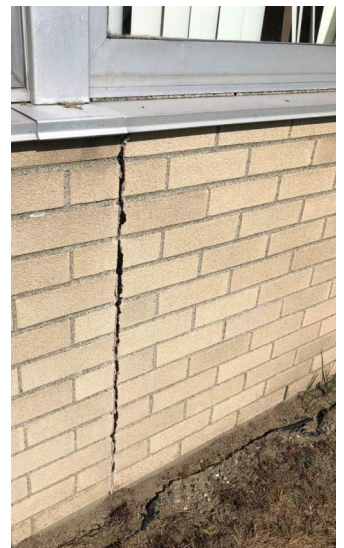
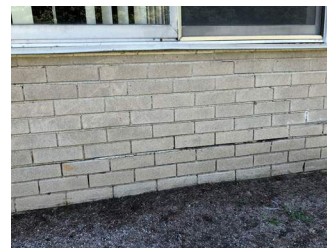
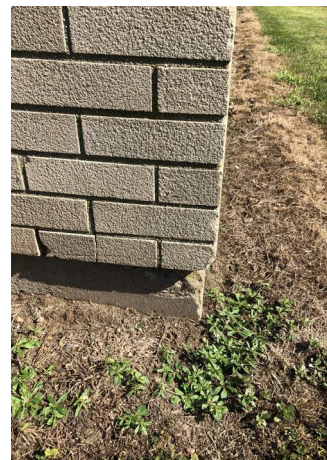
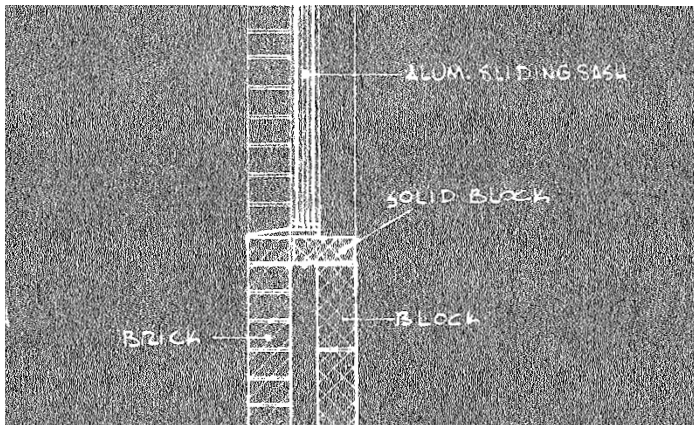
### Exterior Walls

The 50+ year old exterior envelope is composed of 4" brick veneer, 2" air space, and 4" and 6" concrete masonry units (CMU).

Based on site inspections and review of the as-built documents, the exterior wall assembly appears to not have insulation. Extensive investigation would have to occur to ensure that the current air / vapor barrier is adequate and its integrity has not been compromised over time. The R-values of the wall system with 4" CMU are 3.73 +/-, respectively. These values would not meet current energy code and would need a major retrofit to comply with current standards.

Potential condensation is not the only source of water infiltration into the wall system. This building is lacking control joints at critical locations which has caused cracking in the exterior brick veneer. Some of these cracks have been sealed as part of the building maintenance plan but many remain open to allow moisture into the wall system.

Penetrations that are not properly sealed, incorrect flashing details, and failed sealant are all visible throughout the building, allowing water to get into the wall system. Efflorescence is evident in many locations, which is the product of moisture in the wall assembly. Once a crack develops, water infiltration becomes much easier as the freeze/thaw cycle exerts pressure on the masonry and the situation gets exacerbated.



**Roof**

The existing roof system is supported by 1 1/2" steel decking on light gauge steel joists. The original roof was replaced in 2004 as part of the Town's maintenance plan. The original built-up roof was replaced with a white single-ply PVC membrane roof, typical of this building type. There are signs of water infiltration from the inside of the building, and it is assumed the water is penetrating at failed seams in the roof membrane. Additionally, there are many ceilings throughout that are non-accessible, so a thorough investigation could not be performed without selective demolition. The membrane, as observed from the roof, appears to be in good condition; however, there are details which show signs of potential failure.

Overall, the replacement membrane roof appears to be in good condition as it is roughly halfway through its life span. Patching was observed in various locations. It is unknown if these were because of leaks or have been there since the installation. There were low spots observed with ponding water at locations without roof drains. The existing roof slope should be reviewed, as these low spots create standing water which increases the risk of a leak.

Roof drainage is achieved through roof drains which transport the water to the storm drain system. Most of the roof drains have strainers, but some are missing this necessary component which prevents the introduction of debris into the system. All roof drains should be inspected and strainers provided, where missing, to prevent the possibility of debris clogging the system.

**Aluminum Windows**

The original single pane exterior windows remain in place today. The energy standards did not exist when the middle school was built over 50 years ago. These windows are far beyond the end of their useful life as there is visible deterioration in the sealant and glazing beads allowing water to infiltrate during heavy rain events. The windows would not meet current energy code, leak, and in select locations would provide an avenue for moisture to get into the building, which is a concern. All of the exterior windows should be replaced on this building.

**Doors**

The exterior hollow metal doors are hung within a metal frame. Some of the doors have single pane glass vision panels while others are solid. The doors are in poor condition with visible signs of wear including worn or peeling paint, dents, broken glass, and chips. Many doors do not have a canopy, which exposes them to the harsh New England elements. These doors have rusted through the outer metal layer and should be replaced. The metal frames are in very poor condition, as those too are exposed to the elements. All of the exterior doors and frames should be replaced.

The door hardware appears to have been replaced at different time periods as nothing matches. Some of the hardware remains non-compliant with the Massachusetts Architectural Access Board (MAAB) and is further discussed in the handicap accessibility portion of this report.



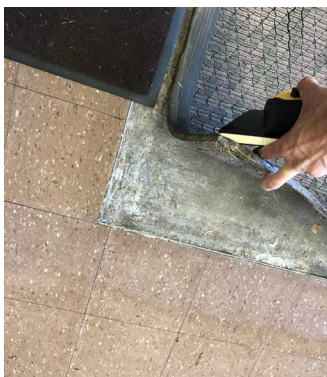
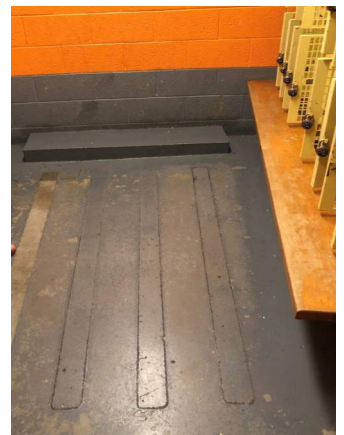
## Interior Review

### Floors

There are numerous flooring materials throughout the building including the following: Vinyl Composition Tile (VCT), Hardwood, Concrete, Carpet, Quarry Tile, and Vinyl Asbestos Tile (VAT). Although the Vinyl Asbestos Tile (VAT) is non-friable and poses no threat to the students or staff, most school districts have developed schedules for periodic removal and replacement of such finishes over time with the ultimate goal of full abatement of asbestos containing materials. Areas within the building that still contain some asbestos materials should be considered as part of any future renovation plans.

The corridor and classroom floors are primarily VAT and VCT. Various locations have been patched with VCT. With the exception of high traffic locations (around doors, intersecting hallways, and room entrances, all of which show excessive wear), the floors in the corridor are in good condition and well maintained. The condition of the VCT and VAT varies throughout each classroom. At select locations, the subfloor is failing and is telegraphing through the flooring material. There are numerous patches in the floor, some with VAT and others with VCT. In certain conditions, the patch itself has already been dented, chipped, etc. These floors are in poor condition and should be replaced in their entirety.

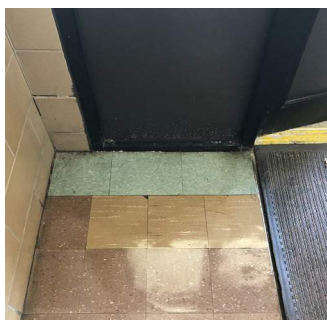
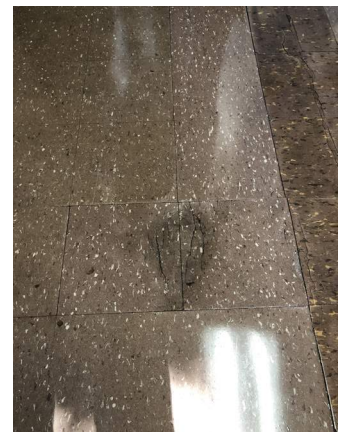
There are instances throughout the school where the concrete slab was left exposed as the finish material. Since there is no finish material applied to the concrete slab, cracks are visible. The concrete floors should be refinished with epoxy paint formulated for high traffic areas after the cracks are filled and sealed with a self-leveling agent.



Hardwood flooring was originally installed in the gymnasium. The original hardwood floors remain and show signs of excessive wear. The wood flooring in the gymnasium visually appears to be in poor condition, and with closer examination reveals there are numerous “dead spots”, separation between boards, and buckling scattered throughout due to water damage. Many older gym wood flooring systems had a limited number of wood sleepers (support members) underneath and relied heavily on the integrity of the finished tongue-and-groove wood flooring. However, as part of regular maintenance, this system most likely has been sanded many times, reducing its overall thickness and strength. Inevitably, this weakens the tongue-and-groove joints. The stage floor, which appears to be VCT, is in fair condition but, again, closer examination reveals signs of wear, unavoidable weathering, and numerous scratches from the construction/deconstruction of set designs and repetitive moving of chairs for each choir/band concert.

The kitchen floor and associated toilet rooms are made of

quarry tile. There is minor damage from normal wear and tear but, overall, the floors are in fair condition and remain serviceable. The joints between dissimilar flooring materials often see the brunt of the abuse, and the Somerset Middle School is no exception. The joints vary significantly resulting in abrupt flooring transitions and deterioration of the grout. Each transition from one material to another should be investigated to confirm whether or not it meets accessibility requirements. Abrupt transitions create handicap accessibility challenges and will need to be addressed as part of any future renovations, if non-compliant.

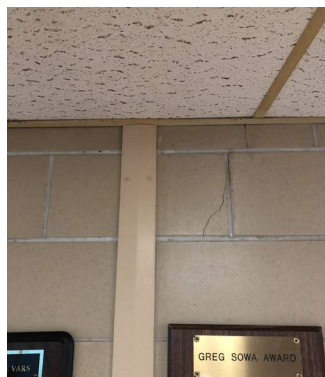
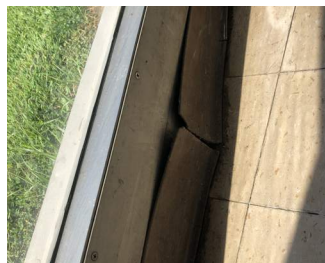
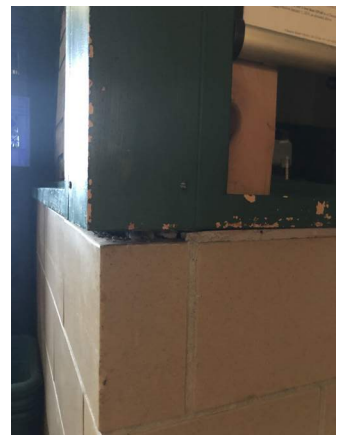
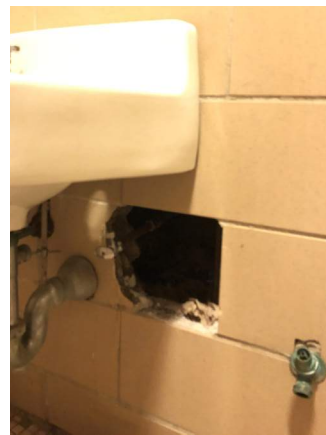
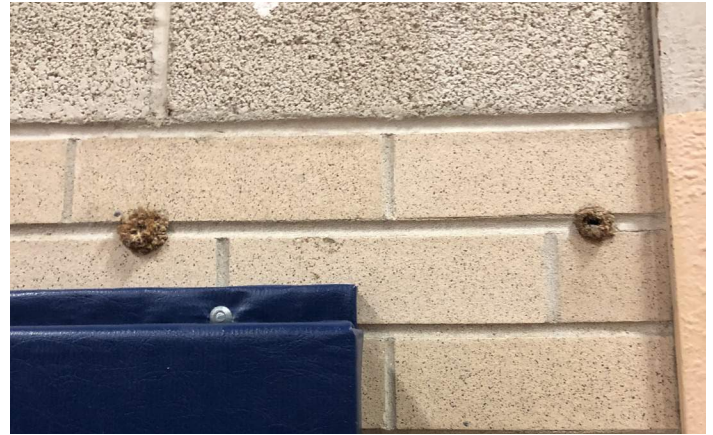


**Walls**

The walls throughout the school are a combination of painted, non-painted, and glazed concrete masonry units (CMU), painted plaster, and gypsum wallboard. Each contains a rubber base, tile base, or carpet cove base (depending on finished flooring material). Most walls appear to be in good condition; however, the age of the walls is apparent as modern retrofitted amenities are exposed. These amenities are needed to meet life safety, electrical, technology, plumbing, and heating/cooling needs; more specifically, wiring for fire alarm devices, power, light switches, and technology. These items are attached directly to the face of the wall and, in some cases, result in non-compliant accessibility issues, which will be discussed later in this report. Typically, the devices would be fully encased within the walls.

The walls in the auditorium and lecture hall are a combination of painted and non-painted CMU, perforated metal panels, and wood baffles. There were signs of moisture at these locations along with damage caused by school productions and stage sets. These walls also remain serviceable but should be investigated further for the cause of the moisture damage.

The walls of the gymnasium are a combination of painted and non-painted CMU, and brick, each treated with a row of athletic wall pads. The athletic wall pads are limited to each of the short sides, directly under the basketball hoops. Along both of the long sides of the gymnasium, there are telescoping wood bleachers. The bleachers appear to be original and are showing signs of wear and tear. Additionally, the bleachers do not meet ADA requirements regarding handrails, stair rise/run dimensions, and wheelchair location accommodations.

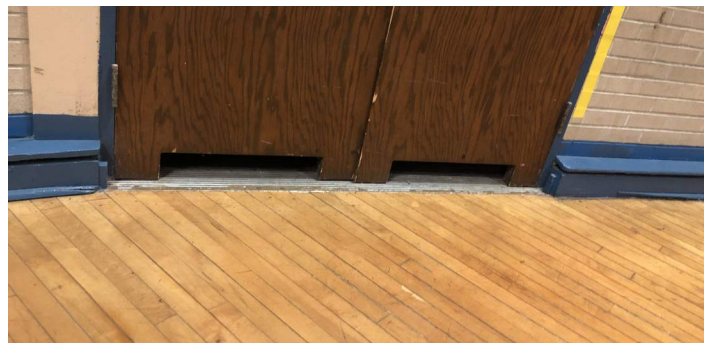
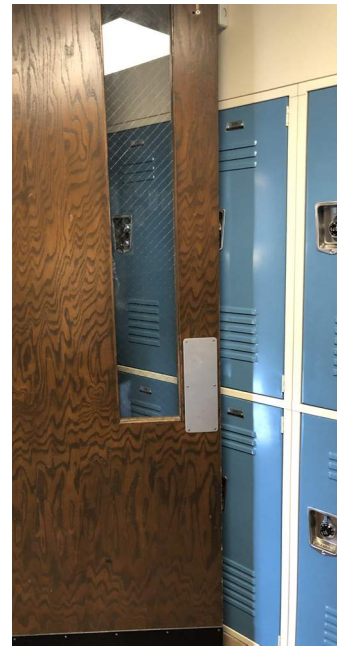


### Doors

The interior doors and frames throughout the school are original and vary in style. Some classroom entry doors have vision panels and transom glass, others are equipped only with vision panels, and certain entries have no glazing whatsoever. Though the metal frames are durable and regularly painted, the original wood doors (and transoms where applicable) are in poor condition. Many of them are worn, scratched, gouged, dented, chipped, etc. These original doors do not provide adequate acoustical separation between the classroom and corridor, as well as classroom to classroom where applicable under current construction standards. The acoustic separation of a classroom is imperative to a successful student learning environment and the current doors offer very minimal acoustic separation, if any at all, as there are visual gaps between the door and the frame.

Although the wired glass found in many of the corridors represent typical standards at the time of installation, modern codes and regulations would require a greater degree of fire separation between the zones of the building. There are double doors located within corridors that conflict with adjacent doors and lockers when open. This configuration has the potential to block a means of egress unknowingly to staff and students. This is especially concerning from a life safety aspect and should be brought to code immediately. In addition, some fire exits were locked and could not be opened from the interior. This too is a concern from a life safety aspect and should also be addressed immediately.

While some of the original door hardware appears to have been replaced over time, the current door hardware still lacks many of the modern safety and security features and is difficult to operate. As regulations have continued to evolve over the recent past, much of the door hardware remains non-compliant, and this is further discussed in the handicap accessibility portion of this report.





## Ceilings

There are a variety of ceiling systems throughout the building, including: 2'x2' suspended acoustical ceiling tile (ACT), 2'x4' suspended acoustical ceiling tile (ACT), plaster applied to drywall, and corrugated metal panels with perforations.

The most prevalent ceiling system is 2'x4' suspended acoustical ceiling tile (ACT). This ceiling system is found throughout the corridors, the main entry, band room, choral room, general academic classrooms, etc.

The ceiling tiles throughout the building have continually been updated to keep up with the occurring water damage presented at each heavy rain fall. Many past and currently active roof leaks have resulted in stained and/or damaged ceiling tiles. The system remains in fair to good condition, but investigation should be part of any renovation project to avoid larger problems in the future. In addition to the administrative offices, the suspended acoustic ceiling tile (ACT) is located in the kitchen, the modular classrooms and connecting corridor, a select number of bathrooms, and portions of the library.

The plaster ceilings are located in some of the bathrooms, portions of the shower areas, and in some of the storage closets. Within each space, damage is evident, ranging from mild to severe. Investigation is needed to determine whether the stains, flaking of ceiling paint, and bubbling of the plaster is a result of water infiltration or from normal wear and tear over the past 50+ years.

The primary ceiling in the gymnasium is the structure itself (48" long-span joists). The structure is an exposed wide flange beam roof structure (refer to structural evaluation for additional information) with a painted finish and exposed 1 1/2" metal roof deck. The elements that were visible show signs of water infiltration where paint is peeling or has chipped off.

Any upgrades to the building's mechanical, electrical, and plumbing systems, or installation of a fire suppression system, will likely require that all the lay-in and hard plaster ceilings be removed/replaced, and will also likely require new lay-in ceilings with grid in all areas that do not currently have such. In addition, acoustical ceiling or wall treatments would better enhance the sound quality of these learning environments, as the multiple layers of paint on the ceiling tile have likely compromised much of their acoustical qualities.





### Stairs

With the progression of building codes and life safety standards, the egress stairs that were once deemed "safe" are no longer code compliant. In order to be in compliance, the stair modifications would include installing a guardrail at an appropriate height, providing continuous handrails that extend 12" (minimum) past the upper most and bottom most riser, providing intermediate handrails for any stair greater than 60" in width, limiting the space of each guard to disallow the passage of a 4" (in diameter) sphere, etc. Detailed and in depth explanations/restrictions can be found under Section 10 of the current building code.

In addition to compliance issues, damage on the stairs is also evident. Further investigation is needed to determine the cause of damage.



# Evaluation of Existing Conditions



Engineers Design Group Inc.

## Structural Review

The purpose of this report is to describe, in broad terms, the structure of the existing building; to comment on the condition of the existing building and on the feasibility of renovation and expansion of the school.

***The following topics will be discussed throughout this structural assessment:***

1. Description of Existing Structure
2. Comments on the Existing Condition
3. Comments on the Feasibility of Renovation and Expansion



### ***Basis of the Report***

This report is based on our visual observations during our site visit on August 20, 2019, as well as a review of the existing drawings of the original construction dated March 1964 and the drawings of the addition dated January 1969 prepared by Warren H. Ashley Architect.

During our site visit, we did not remove any finishes or take measurements, so our understanding of the structure is limited to the available drawings and observations of the exposed structure and the exterior facade.

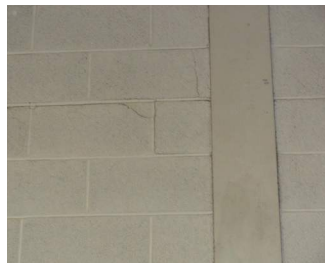
### ***Building Description***

The school is located on Brayton Avenue in Somerset, Massachusetts. The entire school is essentially a single story, steel and concrete structure.

The original school was constructed in 1964 and a single story addition was constructed in 1969. The typical roof structure is metal deck spanning between open web steel bar joists supported on wide flange steel girders and steel columns. The supported floor in the small lecture room and the Auditorium is a reinforced, cast-in-place, concrete slab. The lowest level slab is a concrete slab-on-grade. The exterior walls of the addition are load bearing concrete masonry walls. The foundations supporting the columns and the load bearing walls of the original structure and the addition are reinforced concrete foundations.

### ***Existing Conditions***

Based on our observations, the school structure is performing well based on the age of the school. We observed signs of water leakage at a few locations. We observed cracks in the interior masonry walls at some locations. We observed cracks in the exterior masonry facade and signs of past repairs. We observed some minor spalling of concrete at the corners. We

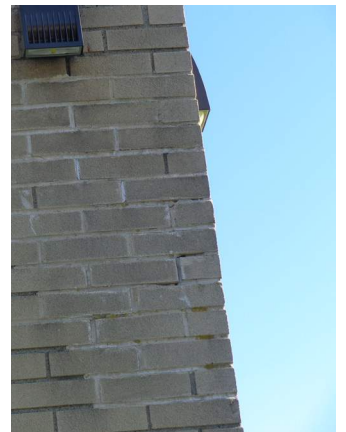


observed exposed reinforcing in the exterior roof beams at some locations. We observed some rust at the edges of the steel lintels above the exterior doors and windows.

We did not perceive any undue vibrations at the supported floors nor did we observe any signs of foundation settlement.

### ***Proposed Schemes***

Based on our observations and our analysis of the existing drawings, no structural upgrades are required for any proposed scheme that has limited renovation scope and does not require any structural modifications. The extent of the code-required structural upgrades is dependent on the extents of the proposed renovations. The following is a description of the compliance methods that may be triggered depending on the extents of the proposed schemes as dictated by other disciplines.



## **General Code Considerations**

### Primary Structural Code Issues Related To the Existing Structure

If any repairs, renovations, additions, or change of occupancy or use are made to the existing structures, a check for compliance with 780 CMR, Chapter 34 "Existing Building Code" (Massachusetts Amendments to The International Existing Building Code 2015) of the Massachusetts Amendments to the International Building Code 2015 (IBC 2015) and reference code "International Existing Building Code 2015" (IEBC 2015) is required. The intent of the IEBC and the related Massachusetts Amendments to IEBC is to provide alternative approaches to alterations, repairs, additions, and/or a change of occupancy or use without requiring full compliance with the code requirements for new construction.

The IEBC provides three compliance methods for the repair, alteration, change of use, or additions to an existing structure. Compliance is required with only one of the three compliance alternatives. Once the compliance alternative is selected, the project will have to comply with all requirements of that particular method. The requirements from the three compliance alternatives cannot be applied in combination with each other.

The three compliance methods are as follows:

1. Prescription Compliance Method.
2. Work Area Compliance Method.
3. Performance Compliance Method.

### Comment

The approach is to evaluate the compliance requirements for each of the three methods and select the method that would yield the most cost effective solution for the structural scope of the project. The selection of the compliance method may have to be re-evaluated after the impact of the selected method is understood and after analyzing the compliance requirements of the other disciplines: Architectural, Mechanical, Fire Protection, Electrical, and Plumbing.

Since the existing building contains non-reinforced masonry wall structures, the anchorage of the walls to the floor and roof structure will have to be evaluated if the work area of the project exceeds 50 percent of the aggregate floor and roof area of the building.

### **Prescriptive Compliance Method**

In this method, compliance with Chapter 4 of the IEBC is required. As part of the scope of this report, the extent of the compliance requirements identified are limited to the structural requirements of this chapter.

### Additions

Based on the project scope, the following structural issues have to be addressed:

- All additions should comply with the code requirements for new construction in the IBC.
- For additions that are not structurally independent of an existing structure, the existing structure and its addition, acting as a single structure, shall meet the requirements of the Code for New Construction for resisting lateral loads, except for the existing lateral load-carrying structural elements whose demand-capacity ratio is not increased by more than 10 percent; these elements can remain unaltered.
- Any existing gravity, load-carrying structural element for which an addition or its related alterations causes an increase in the design gravity load of more than 5 percent shall be strengthened, supplemented, or replaced.

### Alterations

- Any existing gravity, load-carrying structural element for which an addition or its related alterations causes an increase in the design gravity load of more than 5 percent shall be strengthened, supplemented, or replaced.
- For alterations that would increase the design lateral loads or cause a structural irregularity or decrease the capacity of any lateral load-carrying structural element, the structure of the altered building shall meet the requirements of the Code for New Construction, except for the existing lateral load-carrying structural elements whose demand-capacity ratio is not increased by more than 10 percent; these elements can remain unaltered.

### **Work Area Compliance Method**

In this method, compliance with Chapter 5 through 13 of the IEBC is required. As part of the scope of this report, the extent of the compliance requirements identified are limited to the structural requirements of these chapters.

In this method, the extent of alterations has to be classified into LEVELS OF WORK based on the scope and extent of the alterations to the existing structure. The LEVEL OF WORK can be classified into LEVEL 1, LEVEL 2, or LEVEL 3 Alterations. In addition, there are requirements that have to be satisfied for additions to the existing structure.

The extent of the renovations (includes Architectural, FP, and MEP renovations) for this project exceeds 50 percent of the aggregate area of the building; thus, the LEVEL OF WORK for

this project would be classified as LEVEL 3 Alterations. This would require compliance with the provisions of Chapter 7, 8 and 9 of the IEBC. If the scope of the project includes new additions to the existing structure, this would trigger compliance with provisions in Chapter 11 of the IEBC.

### Level 3 Alterations

- Any existing gravity, load-carrying structural element for which an alteration causes an increase in the design gravity load of more than 5 percent shall be strengthened, supplemented, or replaced.
- For alterations where more than 30 percent of the total floor area and roof areas of a building or structure have been or are proposed to be involved in structural alterations within a 12-month period, the evaluation and analysis shall demonstrate that the altered building complies with the full design wind loads as per the code requirements for new construction and with reduced IBC level seismic forces.
- For alterations where not more than 30 percent of the total floor and roof areas of a building are involved in structural alterations within a 12-month period, the evaluation and analysis shall demonstrate that the altered building or structure complies with the loads at the time of the original construction or the most recent substantial alteration (more than 30 percent of total floor and roof area). If these alterations increase the seismic demand-capacity ratio on any structural element by more than 10 percent, that particular structural element shall comply with reduced IBC level seismic forces.
- Existing anchorage of all non-reinforced masonry walls to the structure have to be evaluated.

### Additions

- All additions shall comply with the requirements of the Code for New Construction in the IBC.
- Any existing gravity, load-carrying structural element for which an addition or its related alterations cause an increase in design gravity load of more than 5 percent shall be strengthened, supplemented, or replaced.
- For additions that are not structurally independent of any existing structures, the existing structure and its additions, acting as a single structure, shall meet the requirements of the Code for New Construction in the IBC for resisting wind loads and IBC Level Seismic Forces (may be lower than loads from the Code for New Construction in the IBC), except for small additions that would not increase the lateral force story shear in any story by more than 10 percent cumulative. In this case, the existing lateral load resisting system can

remain unaltered.

### **Performance Compliance Method**

Following the requirements of this method for the alterations and additions may be onerous on the project because this method requires that the altered existing structure and the additions meet the requirements of the Code for New Construction in the IBC.

### **Particular Requirements of Compliance Methods**

For our project, in order to meet compliance with one of the two compliance methods, "Prescriptive Compliance Method" or "Work Area Compliance Method", we have to address the following:

### **Prescriptive Compliance Method**

#### Additions

- The proposed additions would be designed structurally independent of the existing structures, thus, would not impart any additional lateral loads on the existing structure.
- If the proposed alterations are such that the alterations increase the design lateral loads on the existing building or cause any structural irregularity or decrease the lateral load-carrying capacity of the building, the structure of the altered building shall meet the requirements of the Code for New Construction in the IBC.
- If the proposed additions increase the design gravity load on portions of the existing roof members, these members would have to be reinforced and this incidental structural alteration of the existing structures would have to be accounted for in the scope of the alterations to the existing school and would trigger requirements for alterations.

#### Alterations

- Alterations that would increase the design gravity loads by more than 5 percent on any structural members would have to be reinforced.
- If the proposed alterations of the structure increases the demand-capacity ratio of any lateral load resisting element by more than 10 percent, the structure of the altered building or structure shall meet the requirements of the Code for New Construction.

## ***Work Area Compliance Method***

### *Level 3 Alterations*

- If the proposed structural alterations of an existing structure are less than 30 percent of the total floor and roof areas of the existing structure, we have to demonstrate that the altered structure complies with the loads applicable at the time of the original construction and that the seismic demand-capacity ratio is not increased by more than 10 percent on any existing structural element. Those structural elements whose seismic demand-capacity ratio is increased by more than 10 percent shall comply with reduced IBC level seismic forces.
- If the proposed structural alterations of an existing structure exceed 30 percent of the total floor and roof areas of an existing structure, we have to demonstrate that the altered structure complies with the IBC for wind loading and with reduced IBC level seismic forces.
- Existing anchorage of all unreinforced masonry walls to the structure have to be evaluated. If the existing anchorage of the walls to the structure is deficient, the tops of the masonry walls will require new connections to the structure.

### *Additions*

- Any proposed additions would be designed structurally independent of the existing structures, thus, they would not impart any additional lateral loads on the existing structures.

### *Comment*

- The compliance requirements of the two methods, in most respects, are very similar. The Prescriptive Compliance Method would require that the existing lateral load resisting systems meet the requirements of the Code for New Construction of the IBC, even for small increases of design lateral loads. The requirements of both methods will require anchorage of all existing masonry walls. Based on this, we would recommend the Work Area Compliance Method for the project.

## ***Summary***

The existing school structure appears to be performing well. All of the structural components that are visible appear in sound condition. We observed some rusting at the edges of the exterior lintels over door and window openings.

Any major, proposed renovations and additions would likely require that the structure be updated to meet the requirements of the Code for New Construction. This may require addition of some shear walls, connecting the roof diaphragms to the existing masonry walls, and the clipping of non-structural masonry walls to the structure. All of the existing masonry walls would have to be adequately connected to the roof structure.





# Evaluation of Existing Conditions



## Electrical, Mechanical, Plumbing & Fire Protection Review



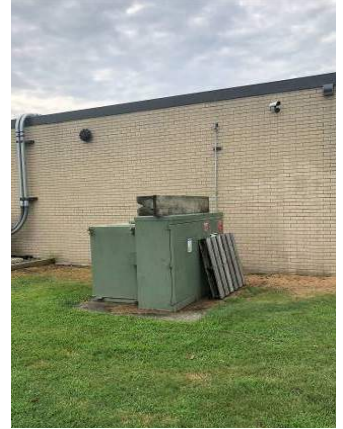
## Electrical

### **Electric Service**

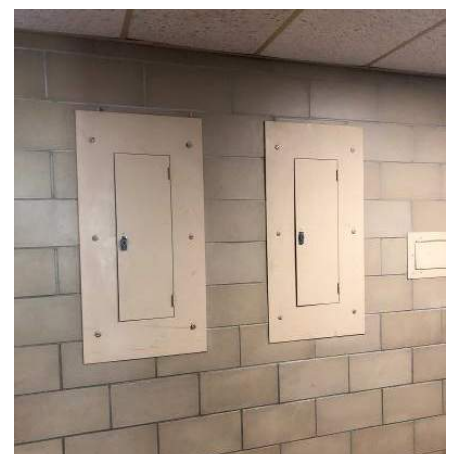
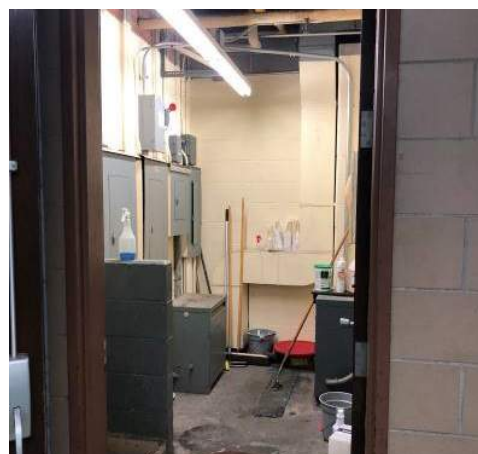
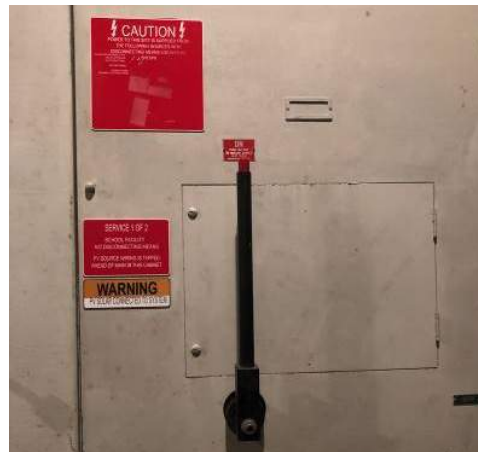
The primary electric service which originates from a riser conduit on an electric utility co. pole feeds the pad mounted electric utility co. transformer via underground conduit/cabling. The pole and the transformer are located on the site. The electric service appears to be original to the building and appears to be in poor condition.

### **Normal Power System**

The switchboard is fed by the electric utility co. transformer via underground conduit/cabling. The switchboard rated at 1200 amp, 120/208 volt, three phase, four wire has a 1200 amp main switch and feeds panelboards located in the Main Electric Room and panelboards throughout the building. The photovoltaic panels which are located on the roof are connected ahead of the switchboard main via exterior mounted pad mounted transformer and disconnect switch. The distribution sections of the switchboard are made up of circuit breakers. Most of the original normal power distribution is manufactured by Westinghouse, while the most recent addition's normal power distribution is manufactured by Eaton. It appears that when



the addition was built a transformer was provided in the Main Electric Room to step up the voltage to 277/480 volt, three phase, four wire to feed the transformer in the addition's Electric Room with the transformer stepping down the voltage to 120/208 volt, three phase, four wire to feed the addition's main distribution panelboard. The electric utility co. meter is also located on the electric utility co. transformer. Most of the normal power system appears to be original to the building and appears to be in poor condition, while the most recent addition's normal power distribution appears to be in fair condition.



### **Emergency Power System**

The building has a 120/208 volt, three phase, four wire, 75 kW natural gas generator as manufactured by Kohler. The generator provides power to the emergency lighting, the hot water tank, and other equipment via automatic transfer switch and panelboards upon loss of normal electric utility power. The automatic transfer switch is rated at 400 amps and is manufactured by Zenith. The generator and the automatic transfer switch are located in the Boiler Room, while the emergency panelboards are located in the Main Electric Room, the addition's Electric Room, and the Boiler Room.



Deficiencies as they relate to current Codes:

- Emergency panelboards need to have dedicated two hour rated emergency electric rooms and cannot share space with normal panelboards.
- Emergency panelboards require two hour feeders such as MI Cable and are required to be housed in two hour rated electric rooms.
- The generator is natural gas fired which according to the National Electric Code cannot serve emergency loads, as natural gas is considered to be an interruptible fuel source. Diesel generators can serve emergency loads.
- Emergency panelboards are required to be protected by surge suppressors.
- Emergency and optional standby loads are mixed in panelboards. Emergency loads and optional standby loads need to be in separate panelboards.



Most of the emergency power system appears to be original to the building and appears to be in poor condition, while the most recent addition's emergency power system appears to be in fair condition.

As described above, the emergency power system does not meet current Codes.

### **Fire Alarm**

The two addressable fire alarm control panels as manufactured by Simplex series 4100ES do not appear to be original to the building. The fire alarm system has been upgraded and consists of an interior radio master box, smoke detectors, heat detectors, duct smoke detectors, pull stations, strobes, and horn/strobes. It appears that the building has detection throughout as required for an educational occupancy.

The fire alarm system appears to be in good condition.



**Lighting**

Interior

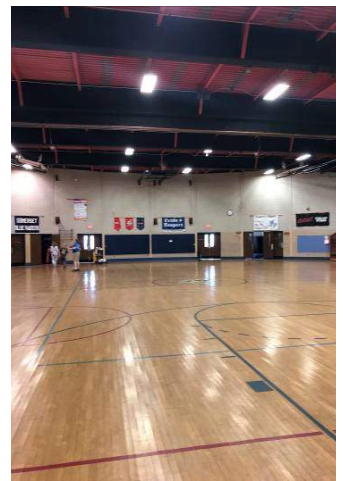
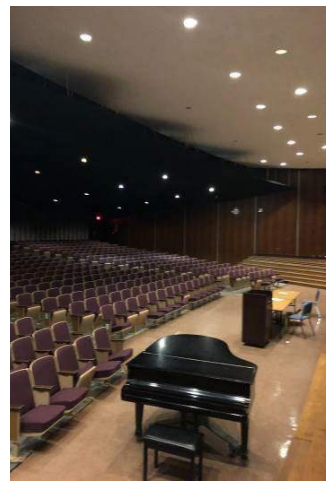
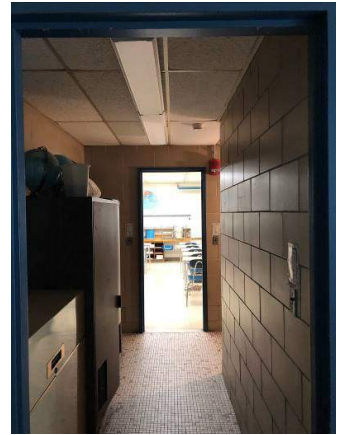
The interior lighting consists of wraparounds, strips, linear high bays, RLM's, recessed prismatic lens troffers and surface mounted lighting fixtures, wall mounted lighting fixtures, and downlights. Exit signs provide for direction to paths of egress.

Lighting is not the most efficient as it relates to current standards, as most of the lamps are fluorescent type. The interior lighting appears to be in fair condition.

Exterior

Lighting consists of recess mounted canopy lighting, wall mounted lighting fixtures, and path and site lighting fixtures on poles. Most of the lighting fixtures are original to the building with high intensity discharge lamps.

Most of the exterior lighting appears to be in poor condition.



Switching

Interior lighting is controlled by local wall switches.

Exterior lighting is controlled by timeclocks.

Deficiencies as they relate to current Codes:

- The current building switching does not meet the International Energy Conservation Code.
- Automatic shutoff of lighting fixtures is required.
- Automatic daylight harvesting is required as per the International Energy Conservation Code.

The switching appears to be original to the building and is in poor condition. As described above, the switching does not meet current Codes.

### ***Receptacles***

Receptacles are ground type. Receptacles have been added over the years through the use of EMT conduit with surface boxes, tele-power poles, plugmold, and wiremold. Receptacles appear to be in fair condition.

### ***Lightning Protection***

The building does not have a lightning protection system which would include air terminals on the roof with downlead conductors to ground and surge protection.

### ***Bi-directional Amplifier System***

The building does not have a bi-directional amplifier system which would include an amplifier and cabling above ceilings for amplifying police and fire alarm radio signals as required by the International Building Code.

### ***Wiring***

Wiring is made up of MC cabling, FA MC cabling, EMT, Rigid, and PVC conduit.

## Heating, Ventilation, and Air Conditioning

### **Boiler Plant**

The building was originally designed to be heated by three dual fuel (natural gas & heavy fuel oil) cast iron boilers installed as part of the school's original construction. The cast iron boilers were manufactured by H.B. Smith, model Mills 640. These three boilers have been fit with Industrial Combustion Burners each having a maximum input capacity of 8,400 MBH. Firing on oil was discontinued in 1997 at the same time the buried fuel oil tanks were removed. Of the three boilers, one is operational, the second boiler has a bad section, and the third boiler is permanently off-line. All three boilers have outlived their service life, are very inefficient to operate, and are in poor condition.

In addition to the three cast iron boilers, a high efficiency, gas fired, stainless steel condensing boiler was installed in 1998. This boiler was manufactured by Benchmark, model 2.0, which has an input of 2,000 MBH. Presently, this boiler handles 90% of the building's heating load and only one of the cast iron boilers is put online during very cold days when the heating loads exceed the capacity of the high efficiency boiler. This boiler is in good condition but is now 21 years old and is approximately 84% through its normal service life.

The boilers provide hot water for heating to the building which is pumped by two sets of pumps. Each set is arranged in a primary/stand-by configuration located in the boiler room. Overall, the pumps appear to be in fair condition and appear to have received proper maintenance, but they have outlived their useful service life.

Combustion air for the boilers is provided through a wall louver with low and high air inlets. The lower opening has been partially blocked-off with rigid foam insulation to reduce cold air infiltration. This condition compromises the free area requirement mandated by code.



## **Controls**

The automatic temperature controls system is primarily pneumatic. There are some DDC controls that had been added in 1998 but this was done mostly for monitoring building temperatures. The entire system is outdated and is unsuitable for upgrades.

## **HVAC System**

### Classrooms

Classrooms located along the exterior of the building are heated and ventilated by classroom unit ventilators. Outside air is supplied to the unit ventilators via wall louvers located below the windows. Each unit ventilator has hot water coil, filters, outside/return air dampers, and supply fans. Valve and damper actuators are pneumatic. The classroom unit ventilators were manufactured by Nesbitt and appear to be original to the building. The unit ventilators have outlived their useful service life.



General exhaust for the classrooms is provided by a system consisting of low wall exhaust grilles, ductwork, and roof exhaust fans. The exhaust fans appear to be old and beyond their serviceable life expectancy.

Some classrooms have been furnished with wall/window mounted air conditioning units, which are marginally effective but are inefficient in operation and generate excessive noise, which can be distracting to teachers and students.

### Gymnasium

The gymnasium is heated and ventilated by two central station air handling units. Each unit serves one half of the gym and a locker room (either the girls' or boys' locker room). The air handling units are original to the construction of the school and are operational. However, they have outlived their useful service life.

### Sixth Grade

The heating and ventilation for the sixth grade section of the school is provided by central station air handling units installed in a penthouse. Access for service is via the ceiling and catwalks. Control of these units is accomplished with pneumatic thermostats. Air is supplied by ceiling diffusers and returned at low wall return grilles. This system is operational but due to its confined location and limited access, maintenance is difficult.

### Library

Heat and ventilation for the library is provided by a central station air handling unit installed in a closet with additional heat provided by perimeter fin tube radiation. This system is functional but has outlived its service life.

Air conditioning for this space is provided by ductless split fancoil units.







### Auditorium & Lecture Hall

The HVAC needs of these spaces are met by central station air handling units which supply air through a system of ductwork and ceiling mounted supply diffusers. The auditorium system generates excessive noise during operation. Although operational, the air handling units have outlived their useful service life

### Corridors & Toilet Rooms

Heat for the corridors and bathrooms is accomplished with ceiling and/or wall mounted convectors, which were installed as part of the original construction. Units are functional but have outlived their useful service life.

The toilet rooms are exhausted through a system of ceiling grilles, ductwork, and roof mounted centrifugal exhaust fans. Based on the odors present during the survey, the system does not appear to be effective.



### Piping Systems

The heating hot water distribution piping is for the most part original and as such, piping leaks are becoming more prevalent as the systems age and the inevitable corrosion increases.

## Plumbing

### ***Domestic Water Service***

A six-inch water service enters the school through the Boiler Room wall with a flanged OS&Y main shut-off valve. After the valve, the pipe runs thru 4-inch water meter. There was no visible backflow preventer on the service. The water service appears original and has exceeded its life expectancy.

### ***Domestic Water Distribution***

The domestic water system is made up of copper piping with either sweat or press fittings. Most of the visible piping was noted to be insulated. The domestic water piping includes gate valves for isolation purposes. The domestic water piping is in fair condition, but due to the age, there is potentially lead content in the drinking water. It is recommended that the domestic water piping, including insulation and valves, be replaced.

### ***Domestic Water Heaters***

The main domestic hot water is generated with a natural gas fired water heater with 350 gallon storage tank and recirculation loop. The water heater and storage tank are located in the Boiler Room. The storage tank was installed last summer the water heater appears to be original to the building. The water heaters provide hot water to the entire school including the kitchen and science class rooms. The kitchen is equipped with a booster heater for dishwashing. A new water heater for the science rooms should be fed from a non-potable system to prevent cross connections with harmful fluids.



### ***Sanitary Waste and Vent System***

The sanitary, waste, and vent drainage is made up of cast iron with lead and oakum joints. An 8" sanitary service exits the building by gravity and ties into the site sanitary system. The sanitary, waste, and vent piping appears to be in fair condition. The piping has served its useful life and should be replaced.

### ***Special Waste and Vent System***

The Science Classrooms' drainage does not have a neutralizing basin prior to connecting to the sanitary system. This is a code requirement, but maybe chemicals are not typically used in the middle school and was considered exempt by the Sewer Dept.



### ***Kitchen Waste and Vent System***

The pot washing sink drainage is directed to an in-floor grease interceptor which appears to be original to the building and is in good condition. The grease trap may be undersized for the size of the pot sink. The kitchen fixtures appear to be in good condition. An exterior grease trap may be required to collect all drainage from the kitchen per local Sewer Authority.

### ***Roof Drainage System***

The storm drainage is made up of cast iron with lead and oakum joints. Multiple storm drains exit the building by gravity and ties into the site storm system. The storm drainage piping appears to be in fair condition. The storm piping has served its lifetime and should be replaced.

### ***Natural Gas System***

A 6" gas service is located outside of the Boiler Room. The service includes a couple of pressure regulators and gas meter. The gas pressure from the service is regulated down to a pressure suitable for the gas fired equipment in the building which include the domestic water heaters, boilers, kitchen equipment, an emergency generator, and science classroom turrets. The science classroom turrets are isolated with a manual shutoff valve under teacher demo desk. This does not meet requirements of current Codes. Gas piping is steel with threaded or welded joints.



### Plumbing Fixtures

Water closets and urinals are wall hung, vitreous china with manually operated flush valves and in fair condition

Lavatories are wall hung, vitreous china with a mix of manual metering faucets in fair condition.

Janitor's sinks are floor receptors fitted with faucet having threaded connection and vacuum breakers. They are in poor condition and lack backflow preventers on their soap systems.

Drinking fountains are painted steel and stainless-steel receptors in fair condition

Some classrooms include stainless steel drop-in sinks.



Science classrooms include sinks without vacuum breakers. There are no cross-control devices. The main water lines may be subject to backwater conditions that would contaminate the piping system without backflow prevention.



The Science classrooms include an emergency shower and eyewash station which is fed from a tempered water. It was unclear if the existing mixing valve was ANSE rated. Current Codes and ANSE require tepid water to serve emergency fixtures. Tepid water is achieved by supplying hot and cold water to the fixtures and blending the water to an acceptable temperature and a minimum of 30 gpm flowing.

Showers are no longer in use for Boys Showers and Girls Showers in locker rooms. They have been decommissioned.

There are large art room sinks but no sediment traps were observed.

In general, plumbing fixtures are in fair condition but have exceeded their life expectancy. Although not required, high efficiency fixtures are recommended.



## Fire Protection

### **General Evaluation**

The existing school is not protected by an automatic sprinkler system.

### **Code Compliance Assessment**

Per the State Building Code, the facility is required to be fully sprinklered. The facility is not in compliance with the existing Building Code.

### **Recommendations**

Install a complete automatic sprinkler system. The existing water supply must be evaluated to determine flow and pressure capacities for the proposed fire protection system.

Applicable Codes and Regulations:

- 780 CMR, Ninth Edition

Chapter 9, Fire Protection Systems, Table 903.2: Buildings of Use Group E greater than 12,000 square feet shall be provided with a complete automatic sprinkler system designed in accordance with NFPA 13. This requirement negates alternatives or exceptions allowed under Section 901.2 where a partial system may be installed or alternative means of compliance may be considered.

Chapter 34, Existing Structures (International Existing Building Code 2009), Section 102.2.1.1: When existing buildings or portions thereof undergo additions or alterations, M.G.L. c. 148, § 26G may apply with respect to automatic sprinkler requirements. Requirements of this statute are enforced by the Fire Official.

M.G.L. c. 148 § 26G: Every building or structure, including any additions or major alterations thereto, which totals in the aggregate more than 7,500 gross square feet in floor area shall be protected throughout with an adequate system of automatic sprinklers in accordance with the provisions of the State Building Code.

"Major Alterations" has been defined in an advisory memorandum issued by the State Automatic Sprinklers Appeals Board as where the scope of work affects 33 percent or more of the total gross square footage or the costs not including sprinkler installation are estimated to be 33 percent or more than the assessed value of the building.







# Evaluation of Existing Conditions

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## Technology Review





## Existing Conditions

### **Security**

#### Access Control (Proprietary)

S2 is being leveraged from the Somerset High School via a VPN connection over Comcast internet fiber. S2 will be proprietary at the new Middle School. Proximity cards are in use, and three doors currently have card access. A video entry system is in place and being used for entry to the building. Visitors are contained in an entry vestibule, with the interior door being released after security screening and badging.

#### Intrusion Detection

The intrusion detection system is inoperative. Not every exterior door has door contacts, greatly reducing situational awareness during occupied times.

There are currently no panic buttons in the building, but panic buttons are desired at locations throughout the building.

#### Video Surveillance

There are currently 48 cameras in use in and around the building. They are power over coax, IP integrated cameras. 2 cameras are new; the rest are six to eight years old. Two entrances and some halls have cameras. There are only two cameras in the cafeteria, and none in the gym, auditorium, or media center. There are many areas of concern with no camera coverage (other entries, large group spaces, and the above-mentioned areas with no coverage). There is no district-wide video surveillance solution in place. The police do have access to all cameras. Storage is approximately 30-45 days. There is no parking lot coverage, but it is desired. Some cameras are actively monitored in the main office and SRO office.

### **Network**

There is no existing district WAN fiber. Comcast is used for internet access at each school.

The current school network cabling is predominantly category 5 cable that is a few decades old. It is generally unreliable and there are not enough data drops to support current computing needs in the building.

Any new fiber shall have LC type connectors.

#### Switches (Proprietary)

The school has some HP/Aruba chassis switches, and some 48 port switches. They are connected by multi-mode fiber to form the school network environment. HP/Aruba switches will be proprietary. Any new switches are desired to be provided and installed, with the owner programming the switches themselves.

### **Phone System**

An old analog/digital phone system is currently in use at the school. It is semi-reliable. It has no redundancy. It is not a district-wide system. All classrooms have wall-mounted phones. The phone system does currently integrate with the PA system. A new VoIP phone system is desired, with PA integration being maintained, and with devices placed by the doors of each classroom.

### **Public Address System**

An old unreliable Simplex PA system is currently installed in the building. Classrooms do not have call buttons to initiate a call to admin. The wired clocks no longer work, so wireless analog clocks with digital insets are provided in the school. The wireless clocks continually lose time synch. PA speakers are missing in the gym, outside of the building, the auditorium, and in some hallways. The Cafeteria is either too loud (when empty) or too quiet (when full).

### **Wireless (Proprietary)**

The building has new Aerohive wireless access points. Aerohive is a district standard and will be proprietary. All classrooms have a wireless access point, but only one cable drop is in each classroom for the wireless access points. Four data drops are required per classroom.

### **IPTV**

The building does not have a video distribution system nor does it have a digital signage solution. Digital signage is desired in halls, student neighborhoods, the cafeteria, at entrances, and at other locations.

### **Classroom Technology**

There is currently no interactivity equipment in the classrooms. Some rooms have a projector and document camera on a cart. Voicelift, a system to amplify a teacher's voice, is not available at the school. Currently, there is only 1 data drop for teacher use in the room. Teacher's devices are currently laptops.

The desired classroom technology is an interactive LCD display, wall mounted VoIP phone by each door, a PA system call button opposite the phone, a voicelift system for teacher and student use, a presentation camera, wireless science labs (no hard wire student data drops), two data drops at the teacher location, two data drops on the opposite side of the room, 4 data drops for wireless access points in the ceiling, and 3 data drops behind the display.

### **Other Systems and Information**

The building does not have a generator for back-up power. UPS devices are used in racks for equipment.

There is a very small break fix area for technology. It needs to be increased in size. The school plans to implement a 1:1 environment next year, and the current break fix area will not support this initiative.

One part-time person is on staff for current technology support. This is inadequate and will need to be increased when a more robust technology environment is in place.

The owner anticipates one Netshelter 4 post rack will be required after consolidation of services is complete. Cage nuts are preferred over threaded holes in all racks/Netshelters.

The desired network cable color scheme will be Data-Blue/Voice-White/WAP-Green/CCTV-Yellow.

Data requirements at administrative locations need to be two data and one voice port.

It is not anticipated that any equipment will be reused from the current project on a new project.

## **Proposed Technology**

### **27 10 00 Structured Cabling**

The new network design will support a 10GHZ backbone over single-mode and multi-mode fiber and up to 10G over Category 6A to the desktop.

Twelve pairs of single-mode fiber and twelve pairs of multi-mode fiber will be provided from the MDF to each IDF.

Cat 6A cabling will be provided for data, voice, CCTV, and wireless access points (four data drops at each wireless access point location). Wireless access point outlet placements are intended to provide the capability for complete wireless coverage throughout the school.

Each teacher location will be wired with two data ports. Two data ports shall be provided on the opposite side of the room. Three data ports will be provided behind each display. Each staff location shall have two data and one voice port. Labs will be hard wired for one data port at each student location.

Category 6A cabling will be provided for the Owner-provided phone system (support for Voice over IP).

### **27 21 00 Network Switches**

Network electronics (switches) shall be provided and installed, but programmed by the Owner. Switches shall be proprietary, HP/Aruba.

### **27 21 33 Wireless Access Points**

Wireless access points, and a controller if applicable, will be provided; one access point in each classroom, and three in each large group space. Office suites shall have an access point. Access points shall be proprietary, Aerohive. Each access point location shall have four data ports. Labs will have a wireless access point outlet and a wireless access point device in each room.

### **27 30 00 Voice Communications**

The phone system and handsets shall be provided and installed by the Owner. The building shall be cabled to support a voice over IP phone system using Cat 6A. Wall mounted phones by classroom doors are desired.

### **27 40 00 Audio-Visual Communications**

Video and audio presentation equipment (75" Interactive LCD, voice lift system with microphones and amplifier, and up to four ceiling speakers) will be permanently installed in classrooms, labs, and designated rooms. The PC/laptop devices in each classroom shall be provided by the Owner. A presentation camera will be provided in each interactive classroom and in designated spaces.

The Auditorium shall have a permanently mounted high lumen (min 10k lumen) theater level projector provided.

A sound system (either permanent or portable) shall be provided in the Gym.

Assistive listening systems shall be provided in large group spaces with sound systems, and a portable system shall be provided.



### **27 50 00 Public Address System**

A public address system shall be provided. Digital clocks synchronized with a master clock shall be provided in every classroom and conference room, and where designated on the drawings. The PA system shall be integrated with the Owner-provided phone system to allow the use of the phone system for paging within the building. If an emergency call button is to be provided, it will be opposite the phone location.

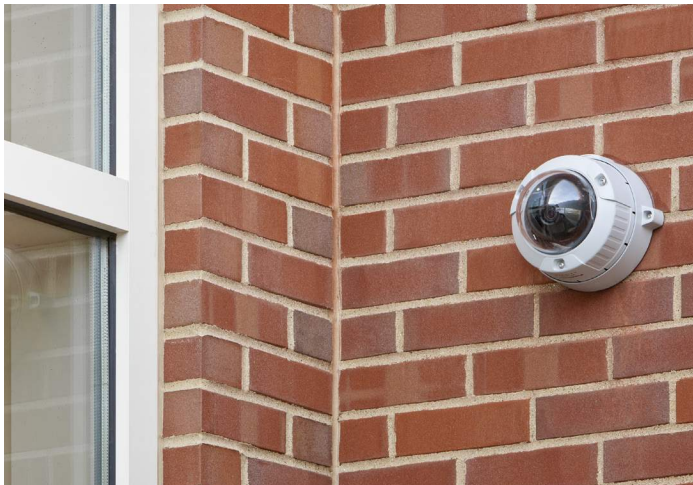


### **27 70 00 Digital Signage**

A digital signage package shall be included, to include displays and playback devices, as well as head end equipment required. Locations for digital signs shall be on the technology drawings.

### **28 00 00 Electronic Safety & Security**

The S2 access control system located at the Somerset-Berkley Regional High School shall be licensed to support the access control requirements at the Somerset Middle School. Panels, card readers, relays, motions sensors, and other devices will be required at the Somerset Middle School, but the server at Somerset-Berkley Regional High shall manage the system at the Middle School. The system at the Middle School shall be proprietary, S2, to integrate with the S2 system at Somerset-Berkley Regional High School. The main entry shall be equipped with a video entry system.



The Middle School shall have an intrusion detection system, with door contacts on every exterior door at a minimum. The school will be partitioned for after-hours use where possible.

The Middle School shall have a Video Surveillance System, consisting of building perimeter, hallway, vestibule, entry, and stairwell cameras. Parking surveillance may be obtained by building-mounted cameras instead of pole-mounted cameras where possible. Large group areas will also have video surveillance.



# Evaluation of Existing Conditions

## Building Code Analysis

The Massachusetts State Building Code (780 CMR) did not exist in 1965 when the original Somerset Junior High School (currently Somerset Middle School) or the addition in 1969 was constructed. The State Building Code has been updated and amended multiple times since the first edition was established in 1972. The State Board of Building Regulations and Standards regularly updates and amends its regulations. Based on these regulations, we found the following items to be in non-compliance:

- Boiler and adjacent electrical room does not have a tested one-hour rated fire separation assembly from each other and existing spaces above.
- Fire extinguishers
- Fire separation assembly between Use Group E (Educational) and Use Group A-3 (Assembly – Cafeteria, Gymnasium, Auditorium) (one-hour fire separation required)
- No sprinkler system
- Handrail and guardrail at stairways and ramps
- Electrical panels in classrooms and corridors

Section 104.4.2 of the IEBC states that “Buildings previously occupied. The legal occupancy of any building existing on the date of the adoption of this Code shall be permitted to continue without change, except as is specifically covered in this Code, the International Fire Code, or the International Property Maintenance Code, or as is deemed necessary by the code official for the general safety and welfare of the occupants and the public.”

The goal of the building code review is to assess the existing conditions and the ability to expand the building to comprehensively renovate and alter the existing building to meet the programmatic needs of a middle school serving 770 (5-8 Middle School) / 590 (6-8 Middle School) students. A comprehensive code review was performed due to the proposed structural modifications, rehabilitation of the building and systems, and reconfiguration of spaces to accommodate the educational program requirements. Ai3 Architects, LLC performed a Code Analysis for the proposed comprehensive renovation and addition scheme. Further code analysis should be performed as the project develops.

### Code Requirements for Alterations to Existing Building

Massachusetts State Building Code (2015 International Existing Building Code with Massachusetts Amendments (IEBC)) states that it is the intent of the Code to provide flexibility to permit the use of alternative approaches to achieve compliance with the minimum requirements to safeguard the public's health, safety, and welfare insofar as they are affected by the repair, alteration, or addition of an existing building.

## Applicable Codes

### **Building**

780 CMR, Massachusetts State Building Code (MSBC) 9th Edition (2015 International Building Code (IBC) and 2015 International Existing Building Code (IEBC))

### **Energy Efficiency**

2015 International Energy Conservation Code with Massachusetts Amendments (IECC)

Buildings shall be designed and constructed in accordance with the 2015 International Energy Conservation Code (IECC), as amended by the Massachusetts State Building Code 780 CMR 13.00. These amendments apply to the IECC and to ANSI/ASHRAE/IESNA 90.1-2013. IECC Chapter 4 (Commercial Energy Efficiency) must be adhered to as this building is a Commercial Building.

### **Accessibility**

521 CMR: Massachusetts Architectural Access Board Regulations

### **Elevator**

524 CMR: Massachusetts Elevator Code (2004 ASMEA17.1)

### **Fire Prevention**

527 CMR: Massachusetts Fire Prevention Regulations (2012 NFPA 1)

### **Plumbing Code**

248 CMR: Massachusetts Plumbing Code

### **Electrical Code**

527 CMR 12.00: Massachusetts Electrical Code (2017 National Electrical Code)

### **Mechanical Code**

2009 International Mechanical Code (IMC)

### **Use And Occupancy Classification**

Educational (E), Assembly (A-1, A-2, and A-3)

### **Current Construction**

Type 2B, Unprotected, Non-Combustible, Non-Separated Mixed Use (original building)

### **Building Height and Allowable Stories** (Table 503)

This is measured from the Grade Plane to the average height of the highest roof surface. The original building can be classified as a one-story building which complies with the maximum allowable height of 55 feet or one story for Type 2B Construction.

# Evaluation of Existing Conditions

## Energy Code Review

**B**uildings shall be designed and constructed in accordance with the 2015 International Energy Conservation Code (IECC), as amended by the Massachusetts State Building Code 780 CMR 13.00. These amendments apply to the IECC and to ANSI/ASHRAE/IESNA 90.1-2013. IECC Chapter 4 (Commercial Energy Efficiency) must be adhered to as this building is a Commercial Building.

According to 2015 IECC Chapter 3 – Climate Zones, the existing Somerset Middle School site is in Climate Zone 5 (as is the entire state of Massachusetts).

The Somerset Middle School was constructed in 1965 (addition in 1969), which was prior to the historic energy shortages of the 1970s and escalating oil prices of 2005. The emergence of a new energy code in 2000, which promoted an increased knowledge of exterior building envelope construction techniques and materials, has dramatically changed the way in which buildings respond to energy efficiency issues. The existing Somerset Middle School does not include a single component that would meet the current energy code or any of the typical guidelines for conscientious energy consumption, including the exterior walls, single pane aluminum windows, roof, heating and ventilation systems, and lighting systems.

An example of the deficiencies is the current exterior wall assembly. The IECC requires an R-13 and R-7.5 continuous insulation on the exterior walls. The existing walls currently do not have any thermal insulation. The wall assembly materials alone provide either an R-3.83 or an R-3.93, depending on wall thickness. These values are significantly lower than Code requirements and would require a large retrofit just to bring the values up to Code minimum.

The following are the 2015 IECC thermal requirements for a building envelope.

- Roof: R-30ci (continuous insulation)
- Walls (above grade): R-13+ 7.5ci
- Floors: R-10ci
- Slab on Grade: R-10





## Evaluation of Existing Conditions

### Handicap Accessibility & Code Review

Requirements for handicap accessibility in building planning and design were non-existent in 1965 when the Somerset Middle School was originally designed and constructed. On January 26, 1992, however, the Department of Justice implemented Title III of the Americans with Disabilities Act (ADA) into Public Law. Additionally, on September 1, 1996, the Commonwealth of Massachusetts developed its own accessibility regulations: 521 CMR Architectural Access Board (AAB), which in some instances is more restrictive than ADA guidelines. The ADA and AAB regularly update and amend their regulations.

These regulations “prohibit discrimination on the basis of disability by private entities in places of public accommodation.” The regulations require that all new places of public accommodation, including schools, be designed and constructed so as to be readily accessible to and usable by persons with disabilities. Existing structures being renovated that exceed 30 percent of the equitized assessment of the building or its replacement value must fully comply with the regulations for new construction.

Somerset Middle School's assessed building value is \$19,466,900; therefore, any renovations or additions to the existing school that exceed the cost of \$5,840,070 (30% of value) would require full compliance with the regulations for new construction. Somerset Middle School is identified as 1141 Brayton Avenue within the Town of Somerset assessors database.

As defined in the AAB Regulations, the Somerset Middle School building is defined as an “Educational Facility”. The access regulations in section 12.1 define an “Educational Facility” as a public and private school, nursery, pre-school, day care facility, colleges and universities, libraries, galleries, museums, and training facilities. All Educational Buildings with spaces that are open to the public are required to be accessible.

“Full Compliance” in the AAB Regulations requires that all public entrances and at least two exits from the building be accessible, that there be an accessible route throughout all public areas of the building, and that classrooms and offices be in full compliance with the AAB Regulations. In addition, synchronized fire alarm strobe lights are required throughout the building, and assisted listening devices must be available for the hearing impaired.

Based on these regulations, the following items were found to be non-compliant or not accessible to the disabled:

**521 CMR 12.00 Educational Facilities**

Sinks, Counters, and Other Work Areas

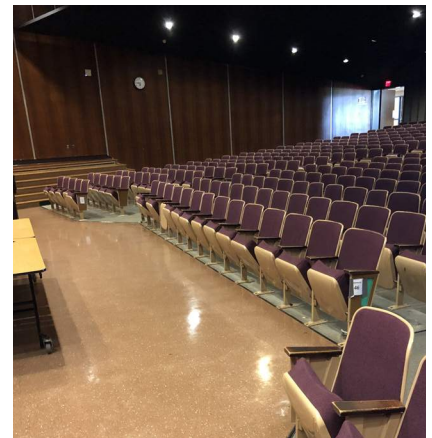
At least 5%, with a minimum of one of each type of element, must be made accessible within a space. Countertops and sinks in classrooms must provide clear floor space, knee clearances, and meet specific height requirements to be considered accessible. While not all classrooms provide sink fixtures, those that do are non-compliant. Countertop heights for sinks are adequate; however, none of the fixtures meet knee clearance requirements.



**521 CMR 14.00 Places of Assembly**

Accessible Seating and Wheelchair Spaces

The existing auditorium has fixed seating to accommodate up to 600 people, and should therefore contain at least six wheelchair spaces. These accessible seats are to be dispersed throughout all seating areas, and each location must have at least one identified companion seat. Supplying wheelchair seating options in multiple locations is vital to providing equivalent sightlines for wheelchair users. The existing auditorium has zero wheelchair seating spaces in addition to the companion seating required by code. They should all be evenly dispersed throughout the auditorium, providing multiple options for wheelchair users. Additionally, the companion seating should provide adequate signage, as the code requires.

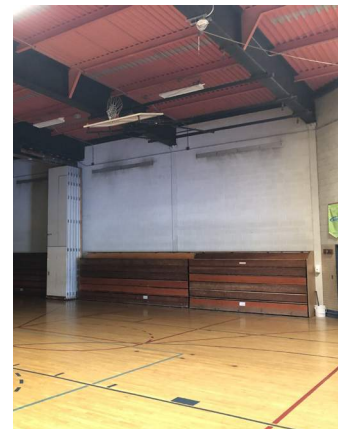


Gymnasium

No accessible seating is provided at the retractable spectator bleachers.

Assisted Listening Systems

An assembly area that accommodates at least 50 people must have a permanently installed assisted listening system and signage to notify of the system. No signage is visible and no listening system is installed.



## **521 CMR 19.00 Recreational Facilities**

### Locker Rooms

There must be a 36" wide accessible route around all lockers, including between benches and lockers. In the Girl's and Boy's Locker Rooms, no benches exist. An accessible bench seat must measure at least 42" long by 20-24" deep, which if located in the current locker room layout, would make the conditions non-compliant. Changing/toilet room openings are too narrow (24" wide), making them inaccessible and non-compliant, while multiple toilets rooms do not have a door to begin with.



## **521 CMR 20.00 Accessible Route**

### Accessible Route from Parking Lot

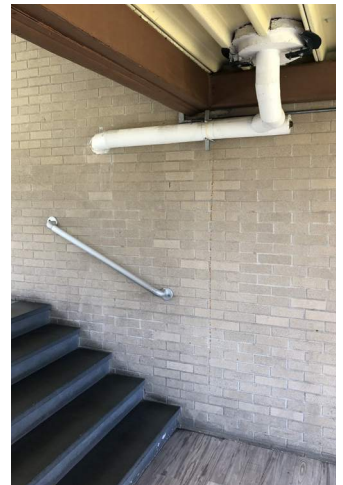
Every building should have clear identifiable designated accessible parking spaces (number based on max building occupants) within a certain distance from the main entrance. The route from those spaces to the main entrance should be fully ADA compliant and follow the guidelines set fourth by the International Building Code.

### Area of Rescue Assistance

Each area of rescue assistance shall be identified by a sign that states "area of rescue assistance" and displays the international symbol of accessibility. The sign shall be illuminated when exit sign illumination is required. No areas of rescue assistance are currently identified. Signage shall also be installed at all inaccessible exits and where otherwise necessary to clearly indicate the direction to areas of rescue assistance. This signage is not provided.

### Protruding Objects

Objects projecting from walls with their leading edges between 27 inches and 80 inches above the finished floor shall protrude no more than 4 inches into walks, halls, corridors, passageways, or aisles and shall not have sharp or abrupt edges. Many existing drinking fountains in numerous locations throughout the building are non-compliant.



### Headroom

Walks, halls, corridors, passageways, aisles, or other circulation space shall have a minimum of 80 inches clear headroom. When the clear headroom is not provided, a guardrail or other cane detectable barrier must be present to avert head injury. One existing interior staircase does not meet the minimum 80 inch clearance at the first riser, making it non-compliant.

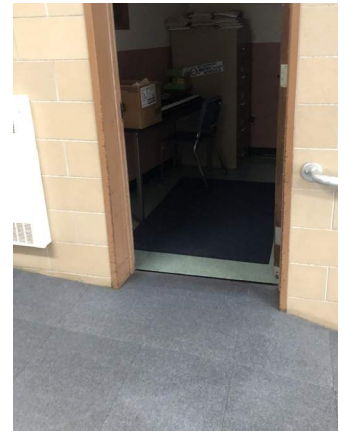
Egress

The exit discharge shall provide a continuous path of travel from an exit to a public way by means of a walkway or a ramp. Many of the exit discharge locations (egress doors) of the existing building have a single step with no ramps, or a curb greater than 1/4 inch, therefore not providing an accessible path of travel from the exit to a public way, making them non-compliant.



**521 CMR 24.00 Ramps**

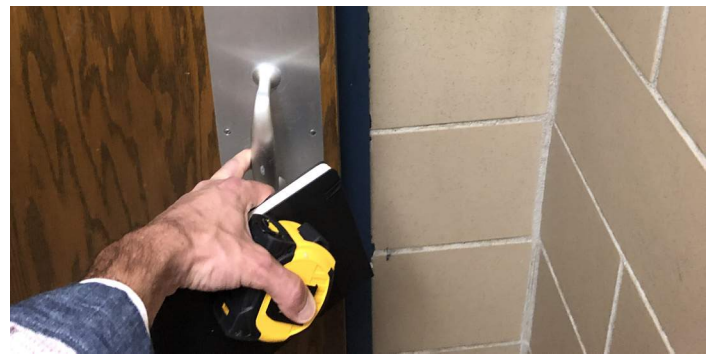
Any part of an accessible route with a slope steeper than 1:20 shall be considered a ramp and shall comply with 521 CMR 24: RAMPS. Several of the existing interior and exterior ramps have one or more non-compliant components, such as the ramp slope and rise ratio, landing size, handrail heights/location or lack thereof, surface and handrail grip profile.



**521 CMR 26.00 Doors and Doorways**

Maneuvering Clearance

All entries into classrooms require clear floor space adjacent to latch side of door for entry and exit. For the pull side, the requirement is 18 inches of clear floor space, while on the push side of a door the requirement is 12" of clear floor space. A large quantity of classroom and bathroom doors in the existing building provide no more than 4" of clearance, making them non-compliant. To retrofit the existing classroom entries to meet accessibility requirements would be extremely expensive, as all adjacent interior walls would have to be demolished and reconstructed. All entries into classrooms and toilet rooms require a clear width no less than 36". All of the existing toilet room entries are 24" max in width, making them non-compliant.



Thresholds

Changes in floor finish material require an edge strip that is beveled at a ratio of 1:2. Some door thresholds where a material change occurs do not include the required edge strip.



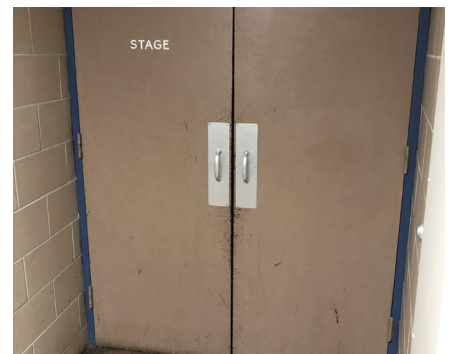
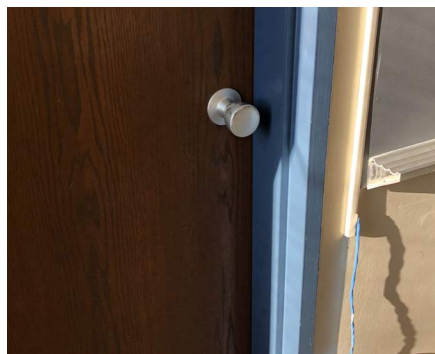
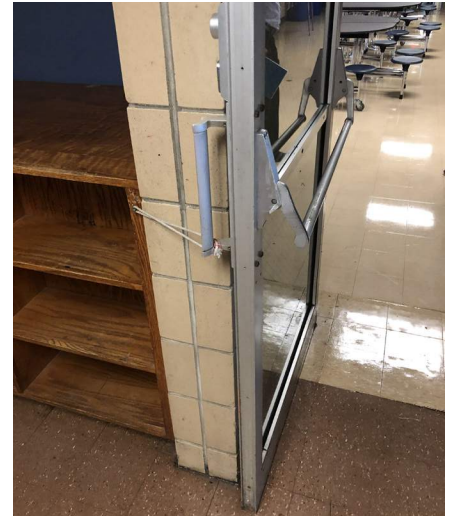
Most of the existing door hardware in the school is non-compliant. Non-conforming knob-type hardware currently exists; lever-operated mechanisms, push type mechanisms, and U-shaped handles are acceptable designs.

Doors opening into hazardous areas shall have door-opening hardware which is knurled or has a roughened surface to give tactile warning to persons with visual impairments. Existing door hardware leading to spaces such as the loading dock, mechanical rooms, and electrical rooms are non-compliant

**521 CMR 27.00 Stairs**

Handrails

All of the exterior and interior stair handrails are non-compliant due to a lack of handrail extensions at the top and/or bottom of the run or the shape of the handrail grip. Railing systems do not include an adequate 42" guardrail.



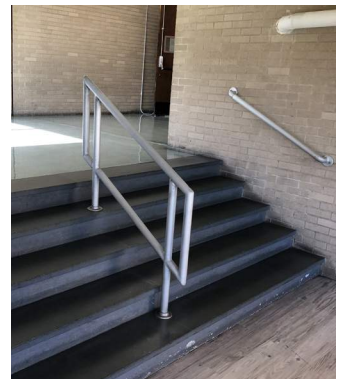
**521 CMR 21.00 Floor Surfaces**

Level Changes

Changes in level grade are not allowed unless a ramp, walkway, or other means of vertical access is provided. The existing Band room space is not fully-compliant due to a step up within the space without a ramp to provide access.

**521 CMR 30.00 Public Toilet Rooms**

Multi-user and single-user toilet rooms are non-compliant as a result of not providing the required clear turning space within the toilet room, required clear egress width into the toilet room, accessible faucet controls (lever type), grab bars at an accessible water closet, toilet paper dispenser, knee clearance at sinks, and mirrors, dispensers, and receptacles at the appropriate heights.





### Toilet Stalls

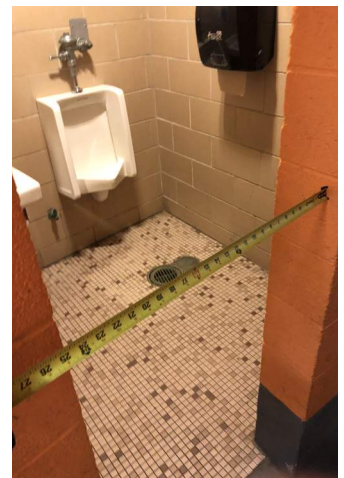
Men's and Women's multi-use toilet rooms are non-compliant and do not provide an accessible toilet stall (clear floor space, grab bars, water closet, appropriate heights of controls), a compliant single user toilet stall (minimum 32" clear width, grab bars, location of water closet, etc.), an accessible sink with required knee clearance, appropriate height mirrors, dispensers and receptacles.

### Urinals

Men's toilet rooms do not provide an accessible urinal.

### Sinks

The majority of toilet rooms do not provide an accessible sink.



### **521 CMR 31.00 Bathing Rooms**

#### Shower Stalls

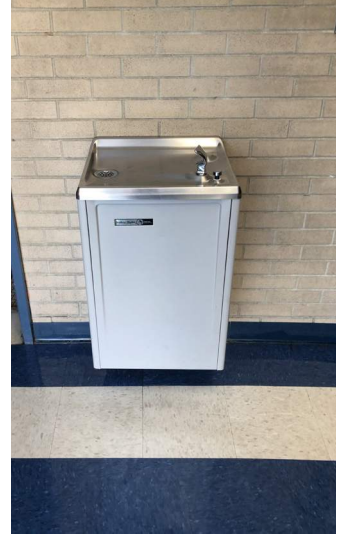
Existing locker room showers are non-compliant, lacking an accessible shower (current shower area accessed over a raised curb), accessible controls, grab bars, etc.

**521 CMR 36.00 Drinking Fountains**

Existing drinking fountains are non-compliant. The drinking fountains do not provide the required clear foot area (knee space), "high-low" fountain, required spout height/locations and controls. As reported earlier in the accessibility review, several of the existing drinking fountains are considered protruding objects within the corridors and provide a hazard to visually impaired individuals.

**521 CMR 41.00 Signage**

Most of the existing room designation signage is non-compliant due to either the lack of proper permanent signage or existing signage that is not compliant with the mounting height and location, character proportion and height, lack of raised braille lettering, finish and contrast and/or symbol of accessibility.



Each of the inaccessible features listed above has an impact on the ability of disabled students or members of the community to access various spaces throughout the school independently. Disabled persons may include students with permanent handicap conditions, students that are temporarily disabled from athletic activity, and parents, staff, or other visitors that could have any form of disability. Any future plans should incorporate as many items as possible to accommodate disabled people to the fullest extent possible.





## Evaluation of Existing Conditions



### Hazardous Materials Identification Study

**A**i3 Architects, LLC secured the services of Universal Environmental Consultants, Inc. (UEC) to conduct a comprehensive hazardous materials identification study for the Somerset Middle School building located on 1141 Brayton Avenue in Somerset, Massachusetts. The report included sampling and testing for Lead Based Paint (LBP) Inspection, PCBs, mercury, radon sampling, airborne mold sampling, and asbestos containing materials (ACM) inspection and sampling. These tests and samplings were in compliance with MSBA regulations identified in Module 3, Feasibility Study: Article 3.1.4 Evaluation of Existing Conditions.

The scope of work included the inspection of accessible ACM, collection of bulk samples, determination and quantities of types of ACM found, and cost estimates for remediation. 55 bulk samples were collected from materials suspected of containing asbestos, five samples were collected for testing of Radon, and six samples were collected for testing of Airborne mold and particulate, each of which were tested in an EPA approved lab. Results contained herein.

**REPORT  
FOR  
HAZARDOUS MATERIALS IDENTIFICATION STUDY  
AT  
SOMERSET MIDDLE SCHOOL  
SOMERSET, MA**

PROJECT NUMBER:  
219 409.00

SURVEY DATES:  
July 18, 22 – August 26-27

**STUDY CONDUCTED BY:**  
**UNIVERSAL ENVIRONMENTAL CONSULTANTS  
12 BREWSTER ROAD  
FRAMINGHAM, MASSACHUSETTS**



August 30, 2019

Mr. Troy Randall  
Ai3 Architects LLC  
526 Boston Post Road  
Wayland, MA 01778

Reference: **Hazardous Materials Identification Survey**  
**Somerset Middle School, Somerset, MA**

Dear Mr. Randall:

Thank you for the opportunity for Universal Environmental Consultants (UEC) to provide professional services.

Enclosed please find the report for the Identification Survey for Hazardous Materials at Somerset Middle School, Somerset, MA.

Please do not hesitate to contact me at (508) 628-5486 if you have any questions.

Very truly yours,

Universal Environmental Consultants

A handwritten signature in blue ink, appearing to read "Ammar Dieb", is written over a horizontal line.

Ammar Dieb  
President

UEC:\219 409.00\Report.DOC

Enclosure

## 1.0 INTRODUCTION:

Universal Environmental Consultants (UEC) has been providing comprehensive asbestos services since 2001 and has completed projects throughout New England. We have completed projects for a variety of clients including commercial, industrial, municipal, and public and private schools. We maintain appropriate asbestos licenses and staff with a minimum of thirty years of experience.

UEC was contracted by Ai3 Architects LLC to conduct the following services at the Somerset Middle School, Somerset, Massachusetts:

- Asbestos Containing Materials (ACM) inspection and sampling;
- Polychlorinated Biphenyls (PCB's)-Electrical Equipment and Light Fixtures inspection;
- PCB's Caulking inspection;
- Lead Based Paint (LBP) inspection;
- Airborne Mold sampling;
- Mercury in Rubber Flooring inspection and sampling;
- Radon sampling;

The scope of work included the inspection of accessible ACM, collection of bulk samples, determination and quantities of types of ACM found and cost estimates for remediation. A comprehensive survey including roofing and destructive sampling per the Environmental Protection Agency (EPA) NESHAP regulation would be required prior to any renovation or demolition activities.

Bulk samples analyses for asbestos were performed using the standard Polarized Light Microscopy (PLM) Method in accordance with EPA standard. Bulk samples were collected by a Massachusetts licensed asbestos inspector Mr. Leonard J. Busa (AI-030673) and analyzed by a Massachusetts licensed laboratory Asbestos Identification Laboratory, Woburn, MA.

Airborne mold samples were analyzed by an EPA trained laboratory EMSL, Woburn, MA.

Radon samples were analyzed by an EPA licensed laboratory AccuStar, Ward Hill, MA.

Samples results are attached.

## 2.0 FINDINGS:

### **Asbestos Containing Materials (ACM):**

The regulations for asbestos inspection are based on representative sampling. It would be impractical and costly to sample all materials in all areas. Therefore, representative samples of each homogenous area were collected and analyzed or assumed.

All suspect materials were grouped into homogenous areas. By definition a homogenous area is one in which the materials are evenly mixed and similar in appearance and texture throughout. A homogeneous area shall be determined to contain asbestos based on findings that the results of at least one sample collected from that area shows that asbestos is present in an amount greater than 1 percent in accordance with EPA regulations. Per the Department of Environmental Protection (DEP) any amount of asbestos found must be disposed as asbestos.

No additional suspect and accessible ACM were found during this survey. However, hidden ACM may be found during the renovation and demolition activities.

### **Number of Samples Collected:**

Fifty-five (55) bulk samples were collected from materials suspected of containing asbestos, including:

### Type and Location of Suspect Material

1. Grey sink coating at teacher's room
2. Grey sink coating at classroom 3
3. Interior window framing caulking in double assembly door at hallway
4. Interior glazing caulking for window in wood door at stairs
5. Interior window glazing caulking in double assembly door at hallway
6. Interior vertical caulking between steel column and CMU at hallway by music
7. Interior vertical caulking between steel column and CMU at classroom 41
8. Black glue in fiberglass insulated duct at boiler room
9. Black glue in fiberglass insulated pipe at boy's room pipe chase
10. Black glue in fiberglass insulated duct at kitchen storage
11. Brown 9 x 9" vinyl floor tile at gymnasium storage
12. Mastic for brown 9 x 9" vinyl floor tile at gymnasium storage
13. Ceiling plaster at auditorium
14. Ceiling plaster at lecture hall
15. Black glue in fiberglass insulated pipe at girl's room by gymnasium
16. Hard joint insulation off fiberglass insulated pipe at boiler room
17. Boiler insulation
18. Boiler breeching insulation
19. Debris on top of ceiling plaster at lecture hall
20. Blue 12" x 12" vinyl floor tile at hall to classroom 51
21. Mastic for blue 12" x 12" vinyl floor tile at hall to classroom 51
22. Blue 12" x 12" vinyl floor tile at hall to classroom 60
23. Mastic for blue 12" x 12" vinyl floor tile at hall to classroom 60
24. Blue 12" x 12" vinyl floor tile at hall to classroom 62
25. Mastic for blue 12" x 12" vinyl floor tile at hall to classroom 62
26. While leveler for blue 12" x 12" vinyl floor tile at hall to classroom 62
27. Exterior window framing caulking
28. Exterior window framing caulking
29. Exterior window framing caulking
30. Exterior soft white window glazing caulking
31. Exterior soft grey window glazing caulking
32. Exterior door framing caulking
33. Exterior unit vent grille caulking
34. Exterior window framing caulking
35. Exterior window framing caulking
36. Exterior window framing caulking
37. Exterior window framing caulking
38. Exterior door framing caulking
39. Hard joint insulation off fiberglass insulated pipe above ceiling
40. Wood fire door at hall to girl's room
41. 2'x 4' Suspended acoustical ceiling tile
42. Wall plaster at classroom 59
43. Wall plaster at faculty dining
44. Ceiling plaster at men's room
45. 2'x 4' Suspended acoustical ceiling tile
46. 2'x 4' Suspended acoustical ceiling tile
47. 2'x 4' Suspended acoustical ceiling tile
48. Debris on floor at girl's locker room loft mechanical room
49. Black glue in fiberglass insulated duct at girl's locker room loft mechanical room
50. Glue tab for fiberglass insulated duct at girl's locker room loft mechanical room
51. Glue tab fiberglass insulated duct at girl's locker room loft mechanical room
52. Mastic for 9" x 9" vinyl floor tile at girl's locker exit hall
53. Wall plaster at conference room
54. Interior window glazing caulking at main office

55. Ceiling plaster at incinerator room

**Sample Results:**

**Type and Location of Suspect Material**

**Sample Result**

1. Grey sink coating at teacher's room	5% Asbestos
2. Grey sink coating at classroom 3	5% Asbestos
3. Interior window framing caulking in double assembly door at hallway	2% Asbestos
4. Interior glazing caulking for window in wood door at stairs	2% Asbestos
5. Interior window glazing caulking in double assembly door at hallway	2% Asbestos
6. Interior vertical caulking between steel column and CMU at hallway by music	3% Asbestos
7. Interior vertical caulking between steel column and CMU at classroom 41	2% Asbestos
8. Black glue in fiberglass insulated duct at boiler room	No Asbestos Detected
9. Black glue in fiberglass insulated pipe at boy's room pipe chase	No Asbestos Detected
10. Black glue in fiberglass insulated duct at kitchen storage	No Asbestos Detected
11. Brown 9 x 9" vinyl floor tile at gymnasium storage	2% Asbestos
12. Mastic for brown 9 x 9" vinyl floor tile at gymnasium storage	No Asbestos Detected
13. Ceiling plaster at auditorium	No Asbestos Detected
14. Ceiling plaster at lecture hall	No Asbestos Detected
15. Black glue in fiberglass insulated pipe at girl's room by gymnasium	No Asbestos Detected
16. Hard joint insulation off fiberglass insulated pipe at boiler room	<1% Asbestos
17. Boiler insulation	50% Asbestos
18. Boiler breaching insulation	60% Asbestos
19. Debris on top of ceiling plaster at lecture hall	60% Asbestos
20. Blue 12" x 12" vinyl floor tile at hall to classroom 51	No Asbestos Detected
21. Mastic for blue 12" x 12" vinyl floor tile at hall to classroom 51	No Asbestos Detected
22. Blue 12" x 12" vinyl floor tile at hall to classroom 60	No Asbestos Detected
23. Mastic for blue 12" x 12" vinyl floor tile at hall to classroom 60	No Asbestos Detected
24. Blue 12" x 12" vinyl floor tile at hall to classroom 62	No Asbestos Detected
25. Mastic for blue 12" x 12" vinyl floor tile at hall to classroom 62	No Asbestos Detected
26. White leveler for blue 12" x 12" vinyl floor tile at hall to classroom 62	No Asbestos Detected
27. Exterior window framing caulking	2% Asbestos
28. Exterior window framing caulking	3% Asbestos
29. Exterior window framing caulking	2% Asbestos
30. Exterior soft white window glazing caulking	10% Asbestos
31. Exterior soft grey window glazing caulking	No Asbestos Detected
32. Exterior door framing caulking	3% Asbestos
33. Exterior unit vent grille caulking	3% Asbestos
34. Exterior window framing caulking	2% Asbestos
35. Exterior window framing caulking	3% Asbestos
36. Exterior window framing caulking	No Asbestos Detected
37. Exterior window framing caulking	No Asbestos Detected
38. Exterior door framing caulking	No Asbestos Detected
39. Hard joint insulation off fiberglass insulated pipe above ceiling	No Asbestos Detected
40. Wood fire door at hall to girl's room	35% Asbestos
41. 2'x 4' Suspended acoustical ceiling tile	No Asbestos Detected
42. Wall plaster at classroom 59	No Asbestos Detected
43. Wall plaster at faculty dining	No Asbestos Detected
44. Ceiling plaster at men's room	No Asbestos Detected
45. 2'x 4' Suspended acoustical ceiling tile	No Asbestos Detected
46. 2'x 4' Suspended acoustical ceiling tile	No Asbestos Detected
47. 2'x 4' Suspended acoustical ceiling tile	No Asbestos Detected
48. Debris on floor at girl's locker room loft mechanical room	70% Asbestos
49. Black glue in fiberglass insulated duct at girl's locker room loft mechanical room	No Asbestos Detected
50. Glue tab for fiberglass insulated duct at girl's locker room loft mechanical room	15% Asbestos

51. Glue tab fiberglass insulated duct at girl's locker room loft mechanical room	15% Asbestos
52. Mastic for 9" x 9" vinyl floor tile at girl's locker exit hall	No Asbestos Detected
53. Wall plaster at conference room	No Asbestos Detected
54. Interior window glazing caulking at main office	No Asbestos Detected
55. Ceiling plaster at incinerator room	No Asbestos Detected

**Observations and Conclusions:**

The condition of ACM is very important. ACM in good condition does not present a health issue unless it is disturbed. Therefore, it is not necessary to remediate ACM in good condition unless it will be disturbed through renovation, demolition or other activity.

Refer to the AHERA Management Plan for condition of ACM.

1. Mastic for tan cove base was previously found to contain asbestos.
2. Building caulking was previously found to contain asbestos.
3. Dark tan 12" x 12" vinyl floor tile was previously found to contain asbestos.
4. Boiler insulation was found to contain asbestos.
5. Incinerator exhaust stack insulation was previously found to contain asbestos.
6. Flexible connector was previously found to contain asbestos.
7. Hard joint insulation was previously found to contain asbestos.
8. Brown 9" x 9" vinyl floor tile was previously found to contain asbestos.
9. Mastic for brown 9" x 9" vinyl floor tile was previously found to contain asbestos.
10. Tan 9" x 9" vinyl floor tile was previously found to contain asbestos.
11. Mastic for tan 9" x 9" vinyl floor tile was previously found to contain asbestos.
12. Grey sink coating was found to contain asbestos.
13. Interior window framing caulking in double assembly door was found to contain asbestos.
14. Interior glazing caulking for window in wood door was found to contain asbestos.
15. Interior vertical caulking between steel column and CMU was found to contain asbestos.
16. Hard joint insulation off fiberglass insulated pipe was found to contain <1% Asbestos. Per DEP the material shall be disposed as asbestos.
17. Exterior window framing caulking was found to contain asbestos.
18. Debris on top of ceiling plaster at lecture hall was found to contain asbestos.
19. Exterior soft white window glazing caulking was found to contain asbestos.
20. Exterior door framing caulking was found to contain asbestos.
21. Exterior unit vent grille caulking was found to contain asbestos.
22. Wood fire door was found to contain asbestos.
23. Debris on floor at girl's locker room loft mechanical room was found to contain asbestos.
24. Glue tab for fiberglass insulated duct was found to contain asbestos.
25. Insulation/rope inside boilers were assumed to contain asbestos.
26. Insulation/rope inside incinerator were assumed to contain asbestos.
27. Stage fire curtain was assumed to contain asbestos.
28. Flexible connectors were assumed to contain asbestos.
29. Insulation/glue inside walk-in refrigerators were assumed to contain asbestos.
30. Glue for 1' x 1' ceiling tile was assumed to contain asbestos.
31. Paper/glue under hardwood floor were assumed to contain asbestos.
32. Chalkboard glue was assumed to contain asbestos.
33. Underground sewer pipes were assumed to contain asbestos.
34. Exterior damproofing on foundation/interior walls was assumed to contain asbestos. The demolition contractor will have to segregate the ACM from non-ACM building surfaces for proper disposal. A non-traditional abatement plan would have to be prepared and submitted to the DEP for approval.
35. Exterior building flashing was assumed to contain asbestos. The demolition contractor will have to segregate the ACM from non-ACM building surfaces for proper disposal. A non-traditional abatement plan would have to be prepared and submitted to the DEP for approval.
36. Roofing material was assumed to contain asbestos.
37. All other suspect materials were found not to contain asbestos. Hidden ACM may be found during renovation and demolition activities.

**Polychlorinated Biphenyls (PCB's)-Electrical Equipment and Light Fixtures:****Observations and Conclusions**

Visual inspection of various equipments such as light fixtures, thermostats, exit signs and switches was performed for the presence of PCB's and mercury. Ballasts in light fixtures were assumed not to contain PCB's since there were labels indicating that "No PCB's" was found. Tubes in light fixtures, thermostats, signs and switches were assumed to contain mercury. It would be very costly to test those equipments and dismantling would be required to access. Therefore, the above mentioned equipments should be disposed in an EPA approved landfill as part of the demolition project.

**PCB's in Caulking:**

PCB's are manmade chemicals that were widely produced and distributed across the country from the 1950s to 1977 until the production of PCB's was banned by the US Environmental Protection Agency (EPA) law which became effective in 1978. PCB's are a class of chemicals made up of more than 200 different compounds. PCB's are non-flammable, stable, and good insulators so they were widely used in a variety of products including electrical transformers and capacitors, cable and wire coverings, sealants and caulking, and household products such as television sets and fluorescent light fixtures. Because of their chemical properties, PCB's are not very soluble in water and they do not break down easily in the environment. PCB's also do not readily evaporate into air but tend to remain as solids or thick liquids. Even though PCB's have not been produced or used in the country for more than 30 years, they are still present in the environment in the air, soil, and water and in our food. EPA requires that all construction waste including caulking be disposed as PCB's if PCB's level exceed 50 mg/kg (ppm). An abatement plan might also be required as part of renovations.

**Observations and Conclusions:**

Caulking was assumed to contain PCB's.

**Lead Based Paint (LBP):****Observations and Conclusions**

LBP was assumed to exist on painted surfaces. A school is not considered a regulated facility. All LBP activities performed, including waste disposal, should be in accordance with applicable Federal, State, or local laws, ordinances, codes or regulations governing evaluation and hazard reduction. In the event of discrepancies, the most protective requirements prevail. These requirements can be found in OSHA 29 CFR 1926-Construction Industry Standards, 29 CFR 1926.62-Construction Industry Lead Standards, 29 CFR 1910.1200-Hazards Communication, 40 CFR 261-EPA Regulations. According to OSHA, any amount of LBP triggers compliance.

**Airborne Mold:**

Airborne mold testing was performed utilizing Zefon International Incorporated's Air-O-Cell® sampling device following all manufacturer supplied recommended sampling procedures.

The Air-O-Cell® is a direct read total particulate air sampling device. It works using the inertial impaction principle similar to other spore trap devices. It is designed for the rapid collection and analysis of airborne particulate including bioaerosols. The particulate includes fibers (e.g. asbestos, fiberglass, cellulose, clothing fibers) opaque particles (e.g. fly ash, combustion particles, copy toner, oil droplets, paint), and bioaerosols (e.g. mold spores, pollen, insect parts, skin cell fragments).<sup>1</sup>

The method involves drawing a known quantity of air through a sterile sampling cassette. Subsequent to sampling, the cassette is sealed and transferred to a microbiology laboratory under chain of custody protocol for microscopic analysis. This method counts both viable and nonviable mold spores.

**AIRBORNE MOLD and PARTICULATE**

Lab ID #	Location	Total Mold Counts/M <sup>3</sup>	Pollen	Insect Fragment	Hyphal Fragments
131905297-0001	Room 34	650	7	ND	ND

<sup>1</sup> Zefon International Inc. <www.zefon.com>



Lab ID #	Location	Total Mold Counts/M <sup>3</sup>	Pollen	Insect Fragment	Hyphal Fragments
131905297-0002	Room 32	720	ND	ND	ND
131905297-0003	Room 15	1,180	ND	ND	ND
131905297-0004	Room 11	3,010	ND	ND	ND
131905297-0005	Room 7	790	ND	ND	ND
131905297-0006	Outside	16,427	ND	ND	ND

**AIRBORNE MOLD and PARTICULATE  
(Subjective Scales)**

Lab ID #	Location	Skin Fragment Density (SFD)	Fibrous Particulates (FP)	Total Background Particulate (TBP)
131905297-0001	Room 34	1	1	1
131905297-0002	Room 32	1	1	1
131905297-0003	Room 15	1	1	1
131905297-0004	Room 11	1	1	1
131905297-0005	Room 7	1	1	1
131905297-0006	Outside	1	1	1

**Legend:**

ND - Not Detected

**Observations:**

There are currently no guidelines or standards promulgated by a government agency or widely recognized scientific organization for the interpretation of airborne mold spore levels. The most commonly employed tool used to assess if mold growth is occurring in a structure is to compare quantities and species of mold outdoors to indoor. If there were more mold indoor, and/or if species were present indoor which were not present outdoors, then growth is occurring, and remediation is recommended.

Indoor airborne mold spore concentrations were found to be much lower than the outside sample. Based on comparisons with historical data from projects of similar type, building utilization, geographic location and season, the indoor airborne levels are considered low. Indoor mold spore counts in the summer are typically in the 2,500-6,500-spores/cubic meter range.

Pollen, insect fragments and Hyphal fragments were either not present or low in the samples. Hyphal fragment is a non-reproductive part of the mold.

Total background particulate on all samples was assessed as "1" on a scale of 1-5 where 1 is low and 5 is high. Skin fragment density on all samples was assessed as "1" on a scale of 1-4 where 1 is low and 4 is high. The total background levels are measured to determine airborne dust not related to airborne mold. Skin fragments are measured to determine proper housing cleaning.

**Mercury in Rubber Flooring:**

**Observations and Conclusions:**

No rubber flooring exists in the school.

**Radon:****Number of Samples Collected**

Five (5) air samples were collected at the following locations:

**Location of Sample**

1. Ground floor room 34
2. Ground floor room 32
3. Ground floor room 15
4. Ground floor room 11
5. Ground floor room 4

**Location of Sample****Sample Result**

1. Ground floor room 34	<0.4 pCi/L
2. Ground floor room 32	<0.4 pCi/L
3. Ground floor room 15	<0.4 pCi/L
4. Ground floor room 11	<0.4 pCi/L
5. Ground floor room 4	<0.4 pCi/L

**Observations and Conclusions:**

The measured radon concentrations of the samples were found to be much lower than the EPA guideline of 4 picoCuris of radon per liter of air (pCi/L). No further action is required based on the results.

**3.0 COST ESTIMATES:**

The cost includes removal and disposal of all accessible ACM, other hazardous material and an allowance for removal of inaccessible or hidden ACM that may be found during renovation or demolition project.

Location	Material	Approximate Quantity	Cost Estimate (\$)
Throughout	9" x 9" Vinyl Floor Tile and Mastic	68,000 SF	238,000.00
	Interior Windows	100 Total	20,000.00
	Interior Doors with Windows	80 Total	12,000.00
	Interior Caulking on Doors	350 LF	3,500.00
	Sinks	21 Total	4,200.00
	Flexible Connectors	10 Total	1,000.00
	Wood Fire Doors	24 Total	4,800.00
	Vertical Caulking	5,000 LF	50,000.00
	Hard Joint Insulation	1,800 Total	36,000.00
	Miscellaneous Hazardous Materials	Unknown	25,000.00
	Miscellaneous Hidden ACM	Unknown	25,000.00
	Tubes in Light Fixtures	Unknown	30,000.00
	Blackboards	100 Total	30,000.00
Stage	Fire Curtain	2 Total	10,000.00
Kitchen	Walk-In Refrigerators	2 Total	18,000.00
Various Locations	Glue Tab on Fiberglass Insulated Duct	600 SF	6,000.00
	1' x 1' Acoustical Ceiling Tile	800 SF	4,000.00
Incinerator Room	Incinerator	1 Total	9,500.00
Gymnasium	Hardwood Floor/Paper/Mastic	9,000 SF	74,000.00
Lecture Hall	Debris above Ceiling Tiles	2,200 SF	11,000.00

Location	Material	Approximate Quantity	Cost Estimate (\$)
Boiler Room	Boiler Insulation	750 SF	15,000.00
	Tank Insulation	220 SF	5,500.00
	Duct Insulation	800 SF	16,000.00
	Glue Tabs on Fiberglass Insulated Duct	450 SF	4,500.00
	Flexible Connectors	5 Total	1,000.00
	Boilers	3 Total	27,000.00
Exterior	Old Windows	300 Total	75,000.00
	Doors	30 Total	6,000.00
	Unit Vent Grille	40 Total	4,000.00
	Transite Sewer Pipes	Unknown <sup>1</sup>	50,000.00
	Damproofing on Exterior/Foundation Walls	Unknown <sup>1</sup>	425,000.00
Estimated costs for NESHAP Inspection, Destructive and Testing Services			17,000.00
Estimated costs for Design, Construction Monitoring and Air Sampling Services			130,000.00
<b>TOTAL:</b>			<b>\$ 1,390,000.00</b>

<sup>1</sup>: Part of total demolition.

#### 4.0 DESCRIPTION OF SURVEY METHODS AND LABORATORY ANALYSES:

##### Asbestos:

Asbestos samples were collected using a method that prevents fiber release. Homogeneous sample areas were determined by criteria outlined in EPA document 560/5-85-030a. Bulk material samples were analyzed using PLM and dispersion staining techniques with EPA method 600/M4-82-020.

##### Airborne Mold:

The samples were analyzed by an EPA approved laboratory EMSL, Woburn, MA.

##### Radon:

Radon samples were analyzed by an EPA licensed laboratory AccuStar, Ward Hill, MA.

Inspected By:



Leonard J. Busa  
Asbestos Inspector  
(AI-030673)

## **5.0 LIMITATIONS AND CONDITIONS:**

This report has been completed based on visual and physical observations made and information available at the time of the site visits, as well as an interview with the Owner's representatives. This report is intended to be used as a summary of available information on existing conditions with conclusions based on a reasonable and knowledgeable review of evidence found in accordance with normally accepted industry standards, state and federal protocols, and within the scope and budget established by the client. Any additional data obtained by further review must be reviewed by UEC and the conclusions presented herein may be modified accordingly.

This report and attachments, prepared for the exclusive use of Owner for use in an environmental evaluation of the subject site, are an integral part of the inspections and opinions should not be formulated without reading the report in its entirety. No part of this report may be altered, used, copied or relied upon without prior written permission from UEC, except that this report may be conveyed in its entirety to parties associated with Owner for this subject study.



## Asbestos Identification Laboratory

165 New Boston St., Ste 227  
Woburn, MA 01801  
781-932-9600

Web: [www.asbestosidentificationlab.com](http://www.asbestosidentificationlab.com)  
Email: [mikemanning@asbestosidentificationlab.com](mailto:mikemanning@asbestosidentificationlab.com)

Batch: 46012



Lab Code: 200919-0

August 29, 2019

Ammar Dieb  
Universal Environmental Consultants  
12 Brewster Road  
Framingham, MA 01702

**Project Name:** *Somerset Middle School, Somerset, MA*  
**Project Number:**  
**Date Sampled:** 2019-08-27  
**Work Received:** 2019-08-28  
**Work Analyzed:** 2019-08-28

**Analysis Method:** BULK PLM ANALYSIS EPA/600/R-93/116

Dear Ammar Dieb,

Asbestos Identification Laboratory has completed the analysis of the samples from your office for the above referenced project. The information and analysis contained in this report have been generated using the EPA /600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials. Materials or products that contain more than 1% of any kind or combination of asbestos are considered an asbestos containing building material as determined by the EPA. This Polarized Light Microscope (PLM) technique may be performed either by visual estimation or point counting. Point counting provides a determination of the area percentage of asbestos in a sample. If the asbestos is estimated to be less than 10% by visual estimation of friable material, the determination may be repeated using the point counting technique. The results of the point counting supersede visual PLM results. Results in this report only relate to the items tested. This report may not be used by the customer to claim product endorsement by NVLAP or any other U.S. Government Agency.

Laboratory results represent the analysis of samples as submitted by the customer. Information regarding sample location, description, area, volume, etc., was provided by the customer. Asbestos Identification Laboratory is not responsible for sample collection activities or analytical method limitations. Unless notified in writing to return samples, Asbestos Identification Laboratory discards customer samples after 30 days. Samples containing subsamples or layers will be analyzed separately when applicable. Reports are kept at Asbestos Identification Laboratory for three years. This report shall not be reproduced, except in full, without the written consent of Asbestos Identification Laboratory.

- NVLAP Lab Code: 200919-0
- Massachusetts Certification License: AA000208
- State of Connecticut, Department of Public Health Approved Environmental Laboratory Registration Number: PH-0142
- State of Maine, Department of Environmental Protection Asbestos Analytical Laboratory License Number: LB-0078(Bulk) LA-0087(Air)
- State of Rhode Island and Providence Plantations. Department of Health Certification: AAL-121
- State of Vermont, Department of Health Environmental Health License AL934461

Thank you Ammar Dieb for your business.

Michael Manning  
Owner/Director

August 29, 2019

Ammar Dieb  
 Universal Environmental Consultants  
 12 Brewster Road  
 Framingham, MA 01702

**Project Name:** Somerset Middle School, Somerset, MA  
**Project Number:**  
**Date Sampled:** 2019-08-27  
**Work Received:** 2019-08-28  
**Work Analyzed:** 2019-08-28

**Analysis Method:** BULK PLM ANALYSIS EPA/600/R-93/116

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
1 510566	Grey Sink DP	Teacher's Rm Addition (ADD)	gray	Non-Fibrous 95	Detected Chrysotile 5
2 510567	Grey Sink DP	C'rm-3	gray	Non-Fibrous 95	Detected Chrysotile 5
3 510568	Interior Win FR @ Hall Door Ass'y	By C'rm 11	gray	Non-Fibrous 98	Detected Chrysotile 2
4 510569	Glaze for Win in Wood Door	Stairs by C'rm 40 Up to Upper Lecture Hall	multi	Non-Fibrous 98	Detected Chrysotile 2
5 510570	Int Win GL? for Win in Hall Door Ass'y	Outside Cafe	multi	Non-Fibrous 98	Detected Chrysotile 2
6 510571	Verticle Caulk Betwix Steel Column & CMU	Hall by Music	multi	Non-Fibrous 97	Detected Chrysotile 3
7 510572	Vert Caulk Betwix Steel Column & CMU	C'rm 41	multi	Non-Fibrous 98	Detected Chrysotile 2
8 510573	Black in FG DI	Boiler Rm	multi	Fiberglass 20 Non-Fibrous 80	None Detected
9 510574	Black in FG PI	Boy's Pipe Chase by C'rm-13 PI	multi	Fiberglass 20 Cellulose 10 Non-Fibrous 70	None Detected
10 510575	Black in FG DI	Kitchen Storage	multi	Cellulose 10 Non-Fibrous 90	None Detected
11 510576	9" Brown VT	Gym Storage	brown	Non-Fibrous 98	Detected Chrysotile 2
12 510577	Mastic #1	Boiler Rm	black	Non-Fibrous 100	None Detected
13 510578	Ceiling Plaster (CP)	Auditorium	white	Fiberglass 2 Non-Fibrous 98	None Detected
14 510579	CP	Lecture Hall	white	Non-Fibrous 100	None Detected

Thursday 29 August

Page 1 of 4

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
15 510580	Blak in FG PI	Girl's Rm by Gym (Pipe Chase)	multi	Fiberglass 30 Non-Fibrous 70	None Detected
16 510581	E Off FG	Boiler Rm	gray	Mineral Wool 50 Non-Fibrous 50	Detected Chrysotile < 1
17 510582	Boiler Insul	Boiler Rm	white	Non-Fibrous 50	Detected Chrysotile 20 Amosite 30
18 510583	Boiler Breech	Boiler Rm	gray	Non-Fibrous 40	Detected Chrysotile 60
19 510584	E Debris (Roof Drain)	Top of CP (Lecture Hall)	gray	Non-Fibrous 40	Detected Chrysotile 60
20 510585	12" Blue VT	By Hall Doorr to C'rm 51 (ADD)	blue	Non-Fibrous 100	None Detected
21 510586	Mastic #20	Hall Door to C'rm 51 (ADD)	yellow	Non-Fibrous 100	None Detected
22 510587	12" Blue VT	Hall by C'rm 60 (ADD)	blue	Non-Fibrous 100	None Detected
23 510588	Mastic #22	Hall by C'rm 60 (ADD)	yellow	Non-Fibrous 100	None Detected
24 510589	12" Blue VT	Hall by C'rm 62 (ADD)	blue	Non-Fibrous 100	None Detected
25 510590	Mastic #24	Hall by C'rm 62 (ADD)	yellow	Non-Fibrous 100	None Detected
26 510591	White Leveler #24	Hall by C'rm 62 (ADD)	white	Non-Fibrous 100	None Detected
27 510592	Win FR Caulk	Small Courtyard, Exterior	multi	Non-Fibrous 98	Detected Chrysotile 2
28 510593	Win FR Caulk	Large C'tyd, Exterior	multi	Non-Fibrous 97	Detected Chrysotile 3
29 510594	Win FR @ Ground Level	Large C'tyd, Exterior	multi	Non-Fibrous 98	Detected Chrysotile 2
30 510595	Soft White Glaze for Window	Large C'tyd, Exterior	multi	Non-Fibrous 90	Detected Chrysotile 10
31 510596	Soft Grey Glaze for Window	By Door W2, Exterior	gray	Non-Fibrous 100	None Detected
32 510597	Door FR Caulk	Door W2, Exterior	multi	Non-Fibrous 97	Detected Chrysotile 3

FieldID LabID	Material	Location	Color	Non-Asbestos %	Asbestos %
33 510598	Grilled Caulk	Main Office Wing, Exterior	multi	Non-Fibrous 97	Detected Chrysotile 3
34 510599	Win FR Caulk	By Door N4, Exterior	multi	Non-Fibrous 98	Detected Chrysotile 2
35 510600	Win FR Caulk	Main Office Winer, Exterior	multi	Non-Fibrous 97	Detected Chrysotile 3
36 510601	Win FR	Window #55 (ADD), Exteiror	gray	Non-Fibrous 100	None Detected
37 510602	Win FR	Win #54 (ADD), Exterior	gray	Non-Fibrous 100	None Detected
38 510603	Door FR	Door E-2 (ADD), Exerior	gray	Non-Fibrous 100	None Detected
39 510604	E Off FG	(ADD) AC y 78	gray	Mineral Wool 50 Non-Fibrous 50	None Detected
40 510605	Oversized Wood Fire Door	(ADD) Hall by Girl's Rm	white	Non-Fibrous 65	Detected Chrysotile 30 Amosite 5
41 510606	2x4 FG SAT	(ADD) Random	yellow	Fiberglass 95 Non-Fibrous 5	None Detected
42 510607	Wall Plaster (WP)	(ADD) C'rm 59	multi	Non-Fibrous 100	None Detected
43 510608	WP	Faculty Dining	gray	Fiberglass 2 Cellulose 2 Non-Fibrous 96	None Detected
44 510609	CP	Men's Rm by 41	white	Cellulose 2 Non-Fibrous 98	None Detected
45 510610	2x4 SAT (Orig w/ Side Fissures?)	Hall by C'rm 6 (Pink?)	brown	Mineral Wool 70 Cellulose 20 Non-Fibrous 10	None Detected
46 510611	2x4 SAT (Orig w/ Side Fissures?)	Conference Rm (Brown?)	brown	Mineral Wool 70 Cellulose 20 Non-Fibrous 10	None Detected
47 510612	2x4 SAT (Orig w/ Side Fissures?)	C'r-11 (Brown)	brown	Mineral Wool 70 Cellulose 20 Non-Fibrous 10	None Detected
48 510613	TSI Debris on Floor	Girl's Locker Loft Mech Rm	multi	Mineral Wool 20 Non-Fibrous 10	Detected Chrysotile 70
49 510614	Black in FG DI	Girl's Locker Loft Mech Rm	multi	Fiberglass 30 Non-Fibrous 70	None Detected
50 510615	Assoc Glue Tab #49	Girl's Locker Loft Mech Rm	brown	Non-Fibrous 85	Detected Chrysotile 15



FieldID	Material	Location	Color	Non-Asbestos %	Asbestos %
LabID					
51	Glue Tab for FG DI	Girl's Locker Loft Mech Rm	brown	Non-Fibrous 85	Detected Chrysotile 15
510616					
52	Mastic for 9" VT	Girl's Locker Exit Hall	black	Non-Fibrous 100	None Detected
510617					
53	WP	Conference Rm	white	Non-Fibrous 100	None Detected
510618					
54	Int Win GL	Mai Office/Principal	multi	Non-Fibrous 100	None Detected
510619					
55	CP	Incinerator Rm	gray	Cellulose 3	None Detected
510620				Non-Fibrous 97	

Thursday 29 August  
Analyzed by:

*Erik Gargas*

End of Report  
Batch: 46012

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# CHAIN OF CUSTODY

<b>Universal Environmental Consultants</b>
12 Brewster Road
Framingham, MA 01702
Tel: (508) 628-5486 - Fax: (508) 628-5488
adieb@uec-env.com

Town/City: Somerset, Ma Building Name: Somerset Middle School

Sample	Result	Description of Material	Sample Location
1		grey sink dp	Teacher's Rm addition (ADD)
2		grey sink dp	cm-3
3		interior window & hall door	assy by cm 11
4		glaze for window wood door	stairs by cm 40 up to upper lecture
5		int window gl. ? for window in hall door	assy outside cafe
6		vertical caulk betwix steel balcony	cm hall by Music
7		vert. caulk " "	" " cm 41
8		Black in FG (DI)	Boiler Rm
9		Black in FG (PI)	Boiler Rm pipe chase by cm-13 (PI)
10		Black in FG (DI)	Kitchen Storage
11		9" Brown VT	Gym Storage
12		MASTIC #11	" "
13		ceiling plaster (CP)	auditorium
14		CP	lecture hall
15		Black in FG (PI)	Boiler Rm by gym (pipe chase)
16		(C) OFF FG	Boiler Rm
17		Boiler insul	↓ ↓
18		Boiler Preech	
19		(C) debris (root dam)	Top of CP (lecture hall)
20		12" Blue VT	by Hall door to cm 51 (ADD)

Reported By: [Signature] Date: 8/27/19 Due Date: 24-hr  
 Received By: [Signature] Date: 8/28/19

203

# CHAIN OF CUSTODY

<b>Universal Environmental Consultants</b>
12 Brewster Road
Framingham, MA 01702
Tel: (508) 628-5486 - Fax: (508) 628-5488
adieb@uec-env.com

Town/City: Somerset, MA Building Name: Somerset M.S.

Sample	Result	Description of Material	Sample Location
21		mastic #20	hall door to c'm 51 (ADD)
22		12" Blue wt	hall by c'm 60 (ADD)
23		mastic #22	" " " "
24		12" Blue wt	hall by c'm 62 (ADD)
25		mastic #24	
26		white leather #24	
27		wint' caulk	small caulk joint <b>EXTERIOR</b>
28		wint' "	large ctyd
29		wint' @ ground level	large ctyd
30		soft white glaze for windows	large ctyd
31		soft grey glaze for windows	by Door W2
32		wint' caulk	Door W2
33		Grille caulk	main office wing
34		wint' caulk	By door N4
35		wint' caulk	main office wing windows #53
36		wint' caulk	window #55 (ADD)
37		wint' caulk	win #54
38		door w/ caulk	door E-2
39		© OFF EG	(ADD) AC by 78
40		oversized wood fire Door	(ADD) hall by Girl's rm

Reported By: [Signature] Date: 8/27/19 Due Date: 24-hr

Received By: \_\_\_\_\_ Date: \_\_\_\_\_

# CHAIN OF CUSTODY

**Universal Environmental Consultants**  
 12 Brewster Road  
 Framingham, MA 01702  
 Tel: (508) 628-5486 - Fax: (508) 628-5488  
 adieb@uec-env.com

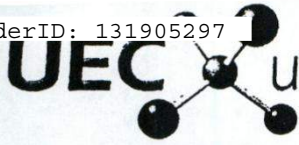
Town/City: Somerset, MA Building Name: Somerset MS

Sample	Result	Description of Material	Sample Location
41		2x4 FG SAT	(ADD) random
42		wall plastic (WP)	(ADD) rm 59
43		WP	Faculty Dining
44		CP	men's rm by 41
45		2x4 SAT (orig w/ side fissures?)	hall by rm 6 (pink?)
46		2x4 SAT ( " " )	conference rm (Brown)
47		2x4 SAT ( " " )	rm-11 (Brown)
48		TSI debris on floor	Girls locker left mech rm
49		Black in Pkg (DI)	
50		ASSOC glue TAB #49	
51		glue TAB for FG (DI)	
52		MASTIC for 9" JT	Girls locker exit hall
53		WP	conference rm
54		int wind	main office / Principal
55		CP	cucubecator rm

Reported By: John A. Buser Date: 8/27/19 Due Date: 24-hr

Received By: \_\_\_\_\_ Date: \_\_\_\_\_

OrderID: 131905297



# universal environmental consultants

12 Brewster Road  
Framingham, MA 01702

Phone: 508.628.5486  
Fax: 508.628.5488

131905297

## CHAIN OF CUSTODY

BUILDING / SITE NAME: Somerset Middle School TOWN / CITY: Somerset  
 WORK AREA: - STATE: MA

Analysis Type	Turnaround Time (x)					Specific Project Notes
	6-8 Hr	12 Hr	24 Hr	48 Hr	72 hr	
TEM / AHERA						
TEM / Level II						
TEM / Dust						
TEM / Bulk						
TEM / Water						
PLM						
Mold			X			
Other:						

SAMPLE ID	MATERIAL DESCRIPTION	SAMPLE LOCATION	START	STOP	TIME	LMIN	VOLUME
①	- 2765 7082	room: 34	0911	0921	10	15	150
②	- 2764 7724	room: 32	0923	0933	10	15	150
③	- 2765 8673	room: 15	0935	0945	10	15	150
④	- 2765 8663	room: 11	0947	0957	10	15	150
⑤	- 2765 8713	room: 7	1001	1011	10	15	150
⑥	- 2765 8721	outside	1014	1024	10	15	150

SAMPLED BY: Caith Odeh DATE/TIME: 07/18/19 0900 RECEIVED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_  
 RELINQUISHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_ RECEIVED IN LAB BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_

REC'D AF 12:53 pm  
 JUL 18 2019  
 WI



**EMSL Analytical, Inc.**

5 Constitution Way, Unit A Woburn, MA 01801  
 Tel/Fax: (781) 933-8411 / (781) 933-8412  
<http://www.EMSL.com> / [bostonlab@emsl.com](mailto:bostonlab@emsl.com)

**EMSL Order:** 131905297  
**Customer ID:** UEC63  
**Customer PO:**  
**Project ID:**

**Attn:** Ammar Dieb  
 Universal Environmental Consultants  
 12 Brewster Road  
 Framingham, MA 01702


**Phone:** (617) 984-9772  
**Fax:** (508) 628-5488  
**Collected:** 07/18/2019  
**Received:** 07/18/2019  
**Analyzed:** 07/19/2019

**Project:** Somerset Middle School., Somerset, MA

**Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)**

Lab Sample Number:	131905297-0001			131905297-0002			131905297-0003		
Client Sample ID:	1			2			3		
Volume (L):	150			150			150		
Sample Location	ROOM:34			ROOM:32			ROOM:15		
Spore Types	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-
Ascospores	-	-	-	-	-	-	1	20	1.7
Aspergillus/Penicillium	17	350	53.8	25	510	70.8	3	60	5.1
Basidiospores	8	200	30.8	8	200	27.8	56	1100	93.2
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	6	100	15.4	2*	10*	1.4	-	-	-
Curvularia	-	-	-	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	-	-	-	-	-	-	-	-	-
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>31</b>	<b>650</b>	<b>100</b>	<b>35</b>	<b>720</b>	<b>100</b>	<b>60</b>	<b>1180</b>	<b>100</b>
Hypchal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	1*	7*	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.



**Steve Grise, Laboratory Manager**  
 or other approved signatory

No discernable field blank was submitted with this group of samples.

Samples received in good condition unless otherwise noted. High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "\*" Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA-LAP, LLC --EMLAP Accredited #180179

Initial report from: 07/19/2019 13:05:39

For information on the fungi listed in this report, please visit the Resources section at [www.emsl.com](http://www.emsl.com)


**EMSL Analytical, Inc.**

5 Constitution Way, Unit A Woburn, MA 01801  
 Tel/Fax: (781) 933-8411 / (781) 933-8412  
<http://www.EMSL.com / bostonlab@emsl.com>

**EMSL Order:** 131905297  
**Customer ID:** UEC63  
**Customer PO:**  
**Project ID:**

**Attn:** Ammar Dieb  
 Universal Environmental Consultants  
 12 Brewster Road  
 Framingham, MA 01702

**Phone:** (617) 984-9772  
**Fax:** (508) 628-5488  
**Collected:** 07/18/2019  
**Received:** 07/18/2019  
**Analyzed:** 07/19/2019

**Project:** Somerset Middle School., Somerset, MA

**Test Report: Air-O-Cell™ Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)**

Lab Sample Number:	131905297-0004			131905297-0005			131905297-0006		
Client Sample ID:	4			5			6		
Volume (L):	150			150			150		
Sample Location:	ROOM:11			ROOM:7			OUTSIDE		
Spore Types	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total	Raw Count	Count/m <sup>3</sup>	% of Total
Alternaria (Ulocladium)	-	-	-	1	20	2.5	-	-	-
Ascospores	12	250	8.3	-	-	-	67	1400	8.5
Aspergillus/Penicillium	4	80	2.7	8	200	25.3	8	200	1.2
Basidiospores	125	2560	85	25	510	64.6	678	13900	84.6
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	5	100	3.3	3	60	7.6	39	800	4.9
Curvularia	-	-	-	-	-	-	1	20	0.1
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	1	20	0.7	-	-	-	7	100	0.6
Myxomycetes++	-	-	-	-	-	-	-	-	-
Pithomyces++	-	-	-	-	-	-	-	-	-
Rust	-	-	-	-	-	-	1*	7*	0
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	-	-	-
<b>Total Fungi</b>	<b>147</b>	<b>3010</b>	<b>100</b>	<b>37</b>	<b>790</b>	<b>100</b>	<b>801</b>	<b>16427</b>	<b>100</b>
Hyphal Fragment	-	-	-	-	-	-	-	-	-
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	-	-	-	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-
Background (1-5)	-	1	-	-	1	-	-	1	-

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

Steve Grise, Laboratory Manager  
 or other approved signatory

No discernable field blank was submitted with this group of samples.

Samples received in good condition unless otherwise noted. High levels of background particulate can obscure spores and other particulates, leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. \*\*\* Denotes particles found at 300X. \* Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. The report reflects the samples as received. When the information supplied by the customer can affect the validity of the result, it will be noted on the report.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA AIHA-LAP, LLC --EMLAP Accredited #180179

Initial report from: 07/19/2019 13:05:39

For information on the fungi listed in this report, please visit the Resources section at [www.emsl.com](http://www.emsl.com)



Radon in Air

NELAC NY 11769  
 NRPP 103216 AL  
 NRSB ARL0017

EPA Method #402-R-92-004  
 Liquid Scintillation  
 NRPP Device Code 8088  
 NRSB Device Code 12193

Laboratory Report for:

Property Tested: Project # 219409.00

Universal Environmental Consultant  
 12 Brewster Road  
 Framingham MA 01702

Somerset Middle School  
 1141 Brayton Avenue  
 Somerset MA 02725

Log Number	Device Number	Test Exposure	Duration:	Area Tested	Result pCi/L
2532995	4044805	07/18/2019 9:24 am	07/22/2019 8:03 am	Bldg. SMS Ground Floor Room 34	< 0.4
2532996	4044794	07/18/2019 9:27 am	07/22/2019 8:09 am	Bldg. SMS Ground Floor Room 32	< 0.4
2532997	4044807	07/18/2019 9:38 am	07/22/2019 8:10 am	Bldg. SMS Ground Floor Room 15	< 0.4
2532998	4044784	07/18/2019 9:42 am	07/22/2019 8:13 am	Bldg. SMS Ground Floor Room 11	< 0.4
2532999	4044798	07/18/2019 9:45 am	07/22/2019 8:15 am	Bldg. SMS Ground Floor Room 4	< 0.4

**Comment:** Universal Environmental Consultant was emailed a copy of this report.

Test Performed By: Laith Odeh

Distributed by: Universal Environmental Consultant

Date Received: 07/22/2019 Date Logged: 07/22/2019 Date Analyzed: 07/23/2019 Date Reported: 07/23/2019

Report Reviewed By: Michelle Cleveland

Report Approved By: [Signature]

Shawn Price, Director of Laboratory Operations, AccuStar Labs

**Disclaimer:**

The uncertainty of this radon measurement is ~+/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.



# Evaluation of Existing Conditions

## Historical Analysis

The Somerset Middle School is not listed on the National Register of Historic Places and does not appear in the Massachusetts Cultural Resource Information System. (Please reference attached MACRIS listing document below).

Although the property is not listed on either of these databases, it may not preclude it from review by the Massachusetts Historical Commission.

Per 950 CMR 71.00, any project that is undertaken by a local government that seeks the provision of the financial assistance by a state body (MSBA) is required to submit a "Project Notification Form".

As part of this process, either the state body or the local government is required to provide a notice to the Massachusetts

Historical Commission (MHC) of the project. After the receipt of notice, the MHC will review any adverse effects, direct or indirect, from the proposed project on any property listed in the State Register of Historic Places. If the MHC determines that a project will have an adverse effect on a State Register property, the MHC, the state body, and the local government will consult to discuss ways to eliminate, minimize, or mitigate the adverse effects. The local government must adopt all prudent and feasible means to eliminate, minimize, or mitigate the adverse effects.

The Project Notification Form will be completed during the Schematic Design phase of the process once a proposed project direction has been identified.

# Massachusetts Cultural Resource Information System MACRIS

[MHC Home](#) | [MACRIS Home](#)

## Results

[Get Results in Report Format](#)

PDF  Spreadsheet

Below are the results of your search, using the following search criteria:

**Street No:** 1141

**Street Name:** Brayton Ave

**Name:** Somerset Middle School

**Year Built:** 1965

For more information about this page and how to use it, [click here](#)

No Results Found.

[New Search](#) | [New Search - Same Town\(s\)](#) | [Previous](#)

[MHC Home](#) | [MACRIS Home](#)



## Preliminary Evaluation of Alternatives

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### Student School Assignment Practices

**T**he Somerset Public Schools does not participate in School Choice. At the elementary school level, students are mainly divided into three regions, each one having its own elementary school for enrollment. In 2019, the District implemented two main “buffer zones” as they have been called which created two other areas in town for which newly enrolled students could be assigned to one of two schools. One of these zones is assigned to both South Elementary and Chace Street School. Both North Elementary and Chace Street School are assigned to the second buffer zone. This process was necessary to control and provide more equity between kindergarten class sizes. Additionally, some elementary students requiring specialized programs may attend an elementary school outside of their assigned zone. The District provides transportation to all students, whether they live in the buffer zone or not. All students in Somerset enrolled in grades 6–8 attend Somerset Middle School.





## Preliminary Evaluation of Alternatives

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### Available Space in Other Schools

**T**he Somerset Public Schools has no available space in any of its existing schools. In fact, the Somerset Public Schools has long partnered with the South Coast Educational Collaborative (SCEC), leasing SCEC some space at North Elementary School for one of SCEC's programs. Due to increasing enrollments at Chace Street School and no space remaining for the needed classrooms, the preschool program transitioned this year from Chace Street School to North Elementary School. As a result, Somerset Public Schools was forced to end the lease with the SCEC in order to utilize this classroom space.





## Preliminary Evaluation of Alternatives

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### Tuition Agreements

**T**he Somerset Public School District does not have any tuition agreements with neighboring school districts. We do have agreements in place for our Special Education out-of-District placement students.







## Preliminary Evaluation of Alternatives

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### Rental / Acquisition of Existing Buildings

**T**he Somerset Public School District does not rent any space nor has it acquired any existing buildings. The District owns five buildings: North Elementary School, which is also home to the District Administration Office; Chace Street School; South Elementary School and its detached library building; and Somerset Middle School.





## Preliminary Evaluation of Alternatives

---

### Base Repair Option

The Base Repair Option **IS NOT** intended to be a viable solution for the Town of Somerset. It does not resolve the Facility or Educational Deficiencies within the Somerset Middle School. It does not provide any additional or new educational space, and does not modernize any existing educational space. It does not provide new instructional technology, needed programs, expanded community resources, or many of the educational and community benefits inherent in a viable solution.

The Base Repair Option **IS** intended to identify the significant expenditures required to resolve basic infrastructure, accessibility, and code compliance issues within the existing Somerset Middle School over the next several years. The MSBA requires that a Base Repair option be evaluated in order to compare it to viable options which address the comprehensive needs of the district. In the case of Somerset, the significant cost of the Base Repair Option makes it obvious that the Town of Somerset will have to expend an enormous amount of money in the near future to address significant infrastructure, accessibility, and code compliance issues. This expenditure of Somerset funds for basic repairs on a building that has proven to be a poorly organized educational facility with is extremely inefficient to operate would be a poor investment. The significant cost of basic repairs at the Somerset Middle School make it obvious that a more comprehensive solution that addresses all needs and includes MSBA grant reimbursement funding is the more educationally appropriate and financially responsible approach.



## Somerset Middle School

<b>BASE REPAIR OPTION</b> Existing 1964-1969 Buildings: 126,650 gsf Renovation - Code and Regulatory compliance 126,650 sf Major systems requiring replacement		
Cost/SF	Cost	Comments
Sitework	\$625,000.00	MA Accessibility compliance on parking, sidewalks, field access, building entries
Demolition	\$316,625.00	All major building entries require modifications, as they are elevated from the adjacent exterior grade.
Asbestos Removal	\$850,000.00	Selective demolition for access to replacement of building systems. ADA/MAAB modifications to door entries, corridors, toilets
Lead Removal	\$85,000.00	contained selective abatement
Concrete	\$275,000.00	contained selective abatement at exterior windows sidewalk/entry/stair/ramping/modifications
Masonry	\$1,125,000.00	Masonry repointing and repair at exterior. Masonry modification to interior door openings ADA/MAAB compliance. Replacement of deteriorated locations
Structural Steel	\$425,000.00	Masonry modification related to removal / replacement of plumbing systems Seismic modifications at building interior.
Light gage Framing	\$325,000.00	Interior modifications for ADA/MAAB compliance. Restore selective demo areas where systems have been replaced.
Misc. Metals	\$126,650.00	Exterior lintel restoration and/or replacement @ windows, doors and louvers
Stair and Ramps	\$275,000.00	ADA/MAAB compliance on stairs and landings
Rough Carpentry	\$55,100.00	Misc. rough blocking at elec./mech. Modifications, door openings, casework, etc.
Finish Carpentry	\$120,000.00	Repairs at areas modified for accessibility
Waterproof/Sealants	\$68,000.00	replace exterior sealants at joints
Insulation		
Roofing/Flashing	\$253,300.00	Repairs to existing roof system
Doors (Wood & HM)	\$89,500.00	Interior doors, exterior doors & Fire rated doors required for compliance
Alum. Entrances	\$65,000.00	Replace aluminum storefronts at entries
Alum. Windows	\$1,450,000.00	Replacement of existing exterior windows
Door Hardware	\$145,000.00	ADA/MAAB compliance
Glass & Glazing	\$52,200.00	Rated glass required at fire door assemblies
Drywall	\$550,000.00	Interior modifications for ADA/MAAB compliance. Restore selective demo areas where systems have been replaced.
Fire Proofing	\$55,000.00	System utility penetrations in rated walls
Ceramic / Quarry Tile	\$250,000.00	Bathroom plumbing walls, adjacent to entries, and handicap toilet modifications
Acoustical Ceilings	\$696,575.00	Full Replacement of existing ceiling system due to disturbance associated with systems replacement and ACM removal.
Acoustical Panels		
Wood Flooring	\$200,000.00	Replacement of existing (buckling) wood athletic flooring
Resilient Flooring	\$105,500.00	Selective replacement where door entries have been modified for accessibility, removal of delaminating asbestos vinyl floor tile
Carpet		
Painting	\$379,950.00	
Theatrical Equipment	\$225,000.00	Equipment, lighting and rigging modifications required for code compliance
Misc. Specialties	\$75,000.00	Interior ADA/MAAB signage
Food Service Equip.	\$85,000.00	Some reconfiguration and equipment replacement required for code compliance
Gym Equipment	\$75,000.00	
Casework / Fixed	\$275,000.00	ADA/MAAB modifications to non-compliant cabinets, counters, casework
Auditorium seating	\$275,000.00	ADA/MAAB Compliance modifications at Auditorium Seating (150 seats - approx. 25%)

**Somerset Middle School**

			<b>BASE REPAIR OPTION</b> Existing 1964-1969 Buildings: 126,650 gsf
			Renovation - Code and Regulatory compliance
			126,650 sf Major systems requiring replacement
	Cost/SF	Cost	Comments
Gym Bleachers		\$250,000.00	ADA/MAAB Compliance modifications at Gymnasium
Fire Protection		\$1,076,525.00	Installation of new system to meet current code compliance
Plumbing		\$1,963,075.00	toilet fixture replace, vacuum break, domestic code upgrade, sanitary main replacement, hot water code upgrade
HVAC		\$3,799,500.00	Replace non-compliant and non-functioning ventilation systems. Replace deteriorated boiler system and necessary heating components. Addition of automated controls
Electrical & Telecom.		\$3,166,250.00	partial power, partial data, partial lighting
Total Building cost	\$154.79	\$19,603,750.00	
Total Site cost	\$4.93	\$625,000.00	
General Conditions	15.5%	\$3,135,456.25	Contractor General Conditions, overhead, profit
<b>Total Building &amp; Site</b>	<b>\$184.48</b>	<b>\$23,364,206.25</b>	
Construction Phasing		\$1,213,725.00	Estimated 6% - Work must be conducted during unoccupied periods
Escalation Allowance		\$5,035,132.47	Estimated 4 years at 5% each year
A/E Fees		\$2,686,883.72	architectural and engineering design fees
Owner's Project Manager (OPM) fees		\$1,401,852.38	Management of design and construction
Topographical survey		\$35,000.00	For exterior modifications and design
Geotech investigation		\$0.00	
Permitting		\$75,000.00	
Move Management			
Owner admin. Costs		\$55,000.00	
Printing / Advertising		\$30,000.00	printing of bid documents and public advertising
Construction testing		\$25,000.00	required independent testing during construction
Furniture & Equipment		\$300,000.00	minimal amount of ADA/MAAB compliant furniture
Owner Technology		\$500,000.00	security, phones, access controls for new ADA/MAAB doors and hardware
Project Contingency		\$2,336,420.63	project and construction contingency
Project Management/Commissioning			
<b>Total Project Cost</b>	<b>\$292.60</b>	<b>\$37,058,220.44</b>	
MSBA Reimbursement	\$171.92	\$21,082,421.61	56.89%
<b>Total Cost to Town of Somerset</b>	<b>\$126.14</b>	<b>\$15,975,798.83</b>	

\* Costs are derived from a database of Massachusetts Public School projects which were bid during the past three years.

\* Costs do not include interest and other borrowing costs

# Preliminary Evaluation of Alternatives

## Summary of Options Considered

Many options were considered as part of the overall analysis of the best possible option for solving the educational and physical deficiencies at the middle school and overcrowding within the elementary school facilities in the Town of Somerset. However, each of these options was really a variation of one or two different scenarios considered by the Town: 1) a grades 5 through 8 middle school solution, or 2) a grades 6 through 8 middle school solution. Within each of these two scenarios, there were three different variations on the construction approach considered. The three different approaches to the construction were: 1) a comprehensive renovation/addition approach, 2) a comprehensive renovation of the existing auditorium, stage, and lecture hall ONLY / addition (all remaining GSF) approach, and 3) an all-new construction approach. As a result of these construction variations on the two scenarios, there are a total of six options considered (seven options if the base repair option is included).

Several primary objectives emerged as part of the analysis, and these objectives provided clear criteria for consideration and evaluation of the options. The objectives include, but are not limited to:

1. Provide sufficient 21st Century educational space for middle school students within the Town of Somerset.
  - Provide new/renovated facilities to accommodate current/future middle school students.
  - Provide a middle school environment which includes all of the necessary program space and adjacencies to

achieve the highly detailed goals and guiding design principles established in the educational plan and the educational visioning workshops.

2. Maximize the proposed middle school project's integration into the short-term and long-term goals of the Town-wide Economic Master Plan.
3. Expand outdoor educational opportunities with playfields, recreation space, and secure outdoor educational areas.
4. Improve safety of the overall school environment by providing appropriate auto and bus circulation on site, as well as by providing sufficient distributed parking for visitors, staff, and administration. More available site area also translates into an ability to create more secure boundaries with buffer zones between school areas and adjacent streets and neighborhoods.
5. Minimize impact to the Town, community, and School Department throughout construction.
  - Although it is understood that there will be some impact as part of the development of any new project, options which minimize such impact are desirable.
  - Minimize impact to the educational environment by limiting construction in direct proximity to school occupied spaces. Shorter construction durations which minimize impact to the school and community are obviously more desirable.

6. Maximize MSBA support and available grant funding.
  - Although it is understood that some portions of the project may not be eligible for MSBA grant reimbursement funding, options which maximize the available grant reimbursement funding are highly desirable.
  
7. Resolve overcrowding at the elementary school grade levels and middle school educational and physical building challenges with a single project.
  - The initial capacity and enrollment analysis indicates that removing 5th grade from the three elementary schools and placing it within newly created middle school space relieves current overcrowding in Grades K through 5. Furthermore, removing 5th grade from the elementary school environment creates sufficient capacity in the elementary schools to offer much-needed specialized programs.
  - The District plans to continue the evaluation of a 5-8 middle school model vs. a 6-8 middle school model and the educational advantages and disadvantages for each through the next design phase, Preferred Schematic Report (PSR).
  
8. Execute a single project which maximizes impact across all grade levels.
  - Multiple projects would require that the Town approve each project independently. The MSBA procedures for reimbursement and support recognize one project per submittal. If multiple projects are being considered, each one would need to be submitted independently, and there is no guarantee that future projects will be considered/approved.
  - The options analysis demonstrates that scenarios that include multiple school projects on multiple sites results in a longer timeline, inflationary increases, and more uncertainty.
  
9. Any proposed option should be educationally appropriate, fiscally responsible, sustainable, and provide a solid long-term solution to school and facility needs in the Town.

The following is a summary of initial options considered as part of a review of facility and school needs:

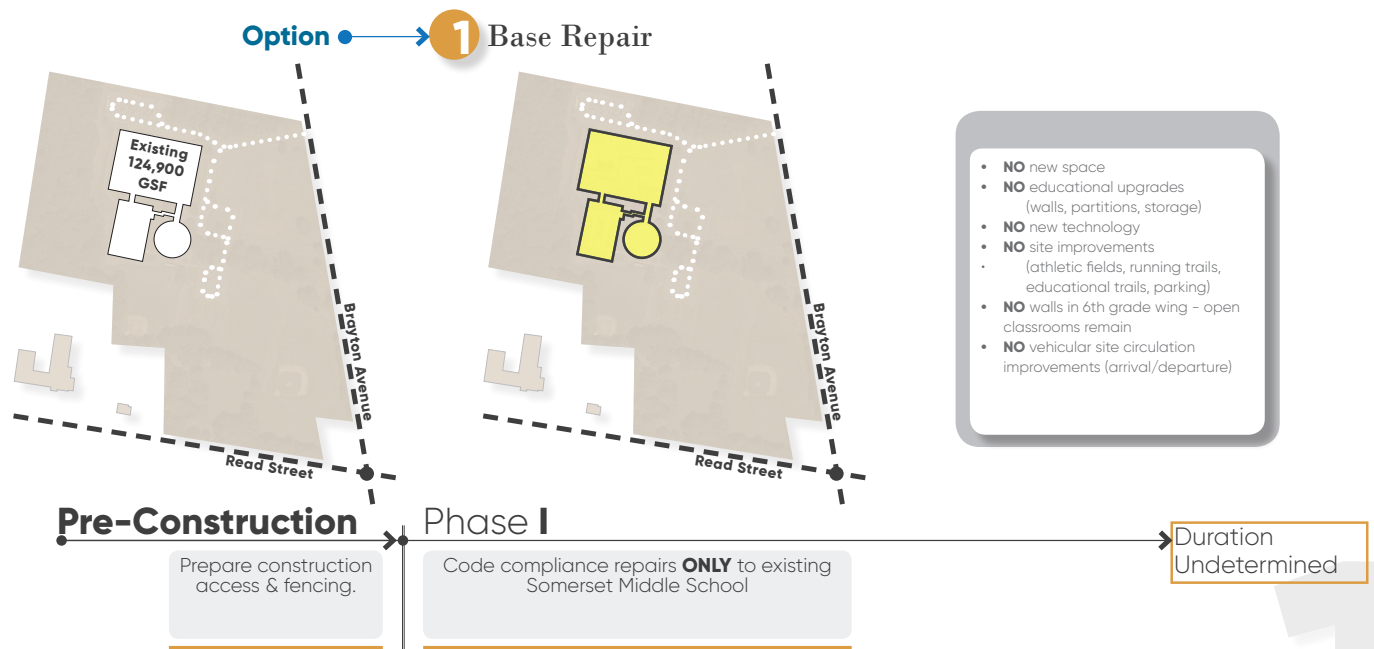


**Option 1**

- Base Repair Option

This option was rejected by the Town, School Department, School Committee, Building Committee, Board of Selectmen, and design team because it is significantly more expensive in the long run, does not resolve the educational space needs deficiencies, and defers the creation of much-needed educational adjacencies and space.

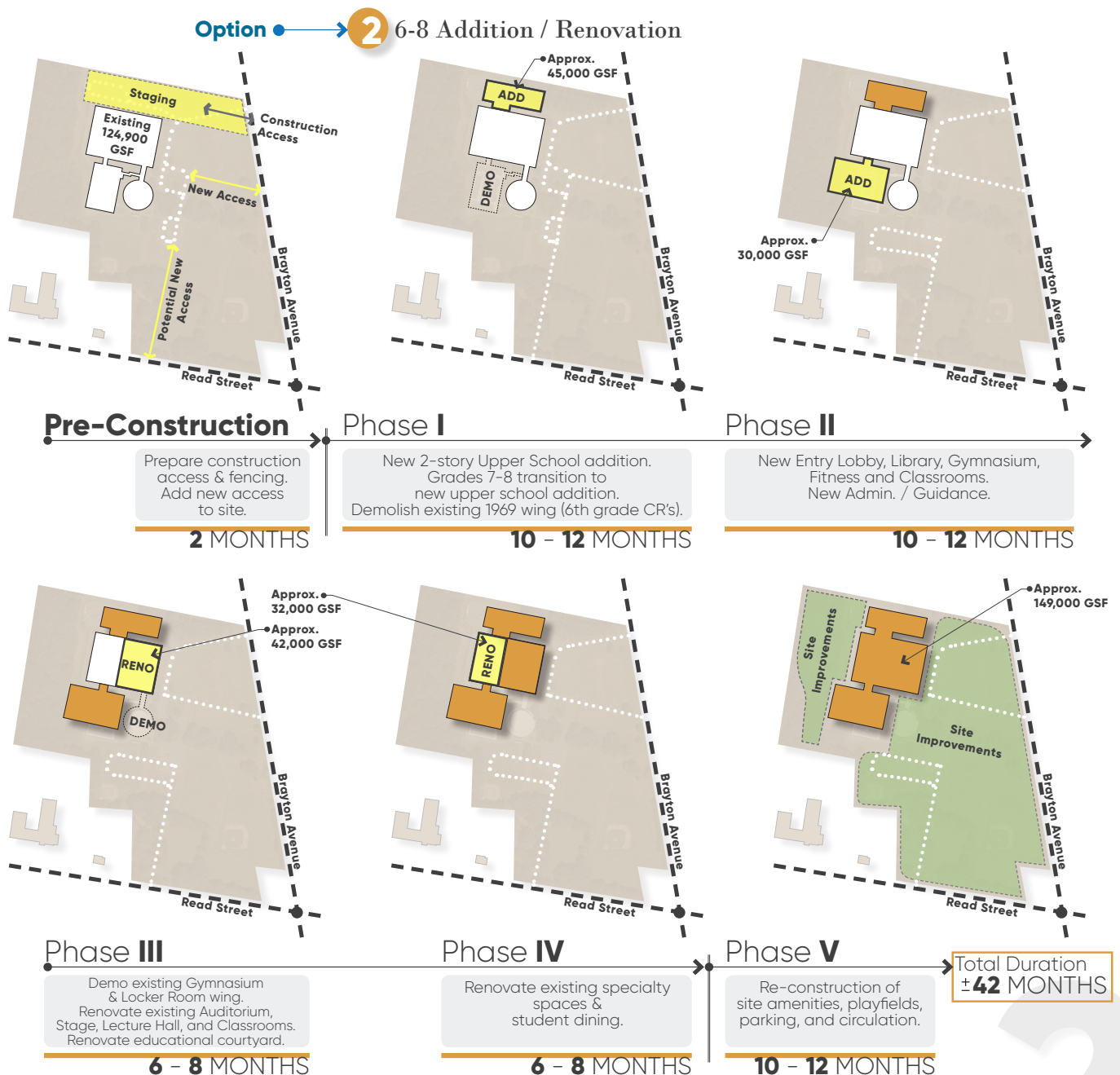
Of the following options, Options 2, 3 and 4 consider a grade 6-8 middle school model, and Options 5, 6 and 7 consider a grade 5-8 middle school model. Each of the 6-8 middle school options (Options 2, 3 and 4) include three separate building projects; the proposed middle school project and an independent project at two of the three existing Somerset Elementary Schools (South Elementary and Chace Elementary) to resolve current and growing issues of overcrowding and lack of special education space. As a long-term solution, this condition will need to be considered as part of the final evaluation and selection of a single option during the next design phase, Preferred Schematic Report (PSR).



**Option 2**

- Project 1: Renovate and expand the existing Somerset Middle School building and site for use as a 6-8 middle school. This option would require the existing middle school building to be incorporated into the proposed new construction.
- Project 2: Construct a new addition at the existing South Elementary School. (Independent of the proposed middle school project)
- Project 3: Construct a new addition at the existing Chace Elementary School. (Independent of the proposed middle school project)

This option has been accepted by the Town, School Department, School Committee, School Building Committee, Board of Selectmen, and design team as one of the three alternatives (options) considered in the Preferred Schematic Report (PSR) phase because of its economical benefit to the Town, its potential to maximize the available grant reimbursement funding, and, of the four addition/renovation options considered, this option allows for greater design opportunities and liberties while considering the priorities and goals captured in the visioning sessions from the potential educational innovation to the integration of the Town-wide Economic Masterplan.

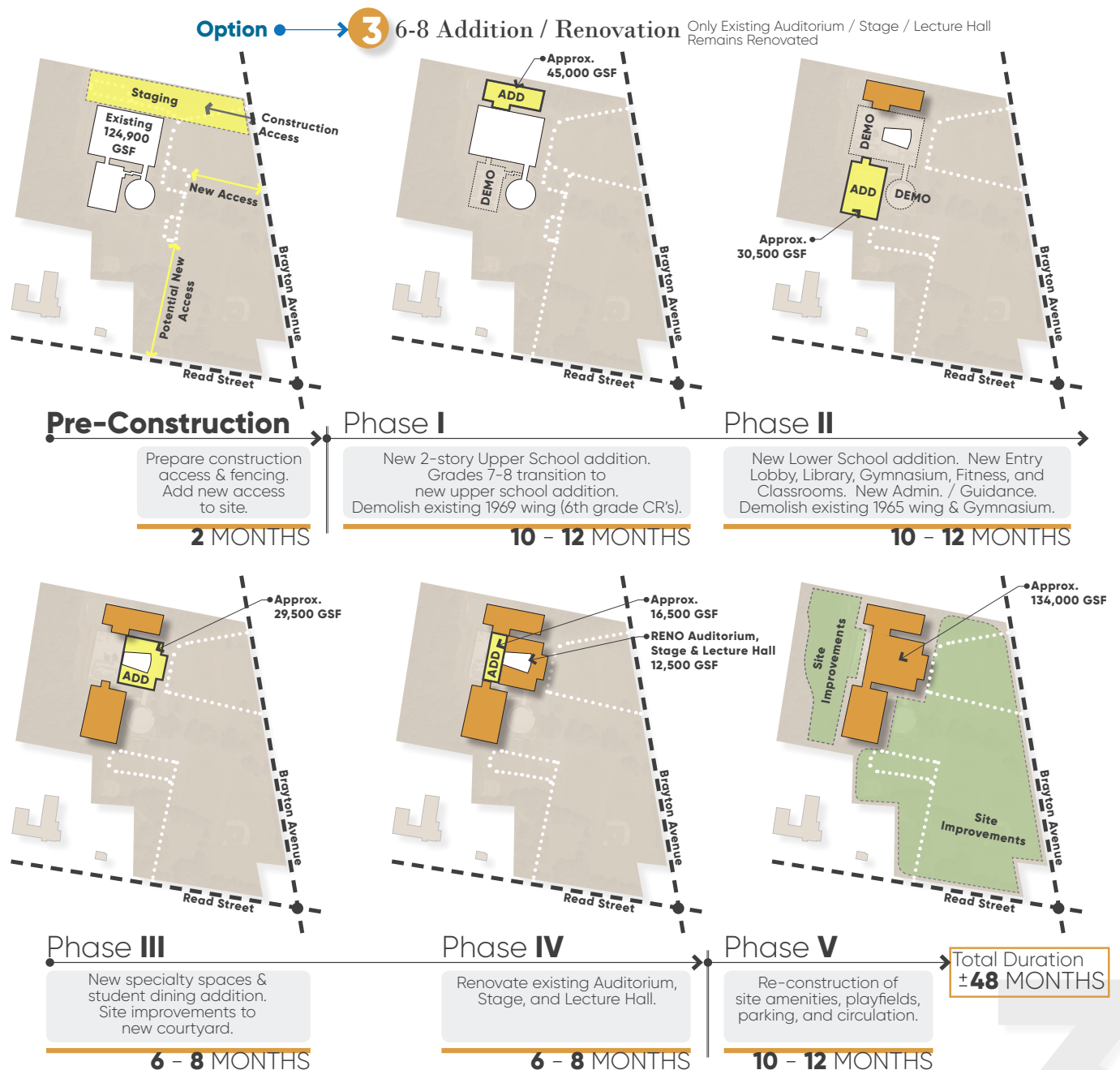


**Option 3**

- Project 1: Renovate the existing auditorium, stage, and lecture hall only, and expand the existing Somerset Middle School building and site to create a new 6-8 middle school. This option would require approximately 10,000 gsf of the existing middle school building to be incorporated into the proposed new building. The remaining proposed gross floor area would be new construction.
- Project 2: Construct a new addition at the existing South Elementary School. (Independent of the proposed middle school project)

- Project 3: Construct a new addition at the existing Chace Elementary School. (Independent of the proposed middle school project)

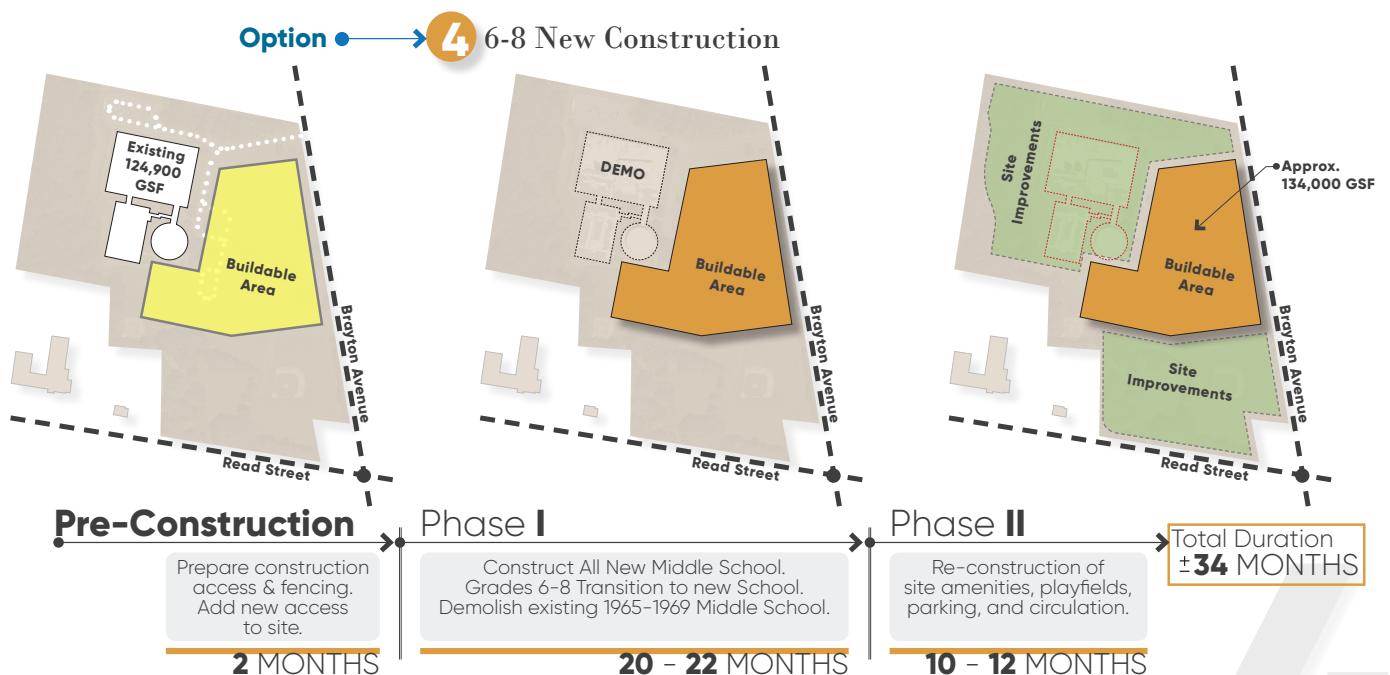
This option was rejected by the Town, School Department, School Committee, School Building Committee, Board of Selectmen, and design team because it is significantly more expensive, it involves substantial educational disruption that would occur due to the multi-phased occupied construction, and it has a total project duration of approximately 48 months.



**Option 4**

- Project 1: Construct an all-new 6-8 middle school on the existing Somerset Middle School site. The existing Somerset Middle School would be demolished upon completion of the new facility.
- Project 2: Construct a new addition at the existing South Elementary School. (Independent of the proposed middle school project)
- Project 3: Construct a new addition at the existing Chace Elementary School. (Independent of the proposed middle school project)

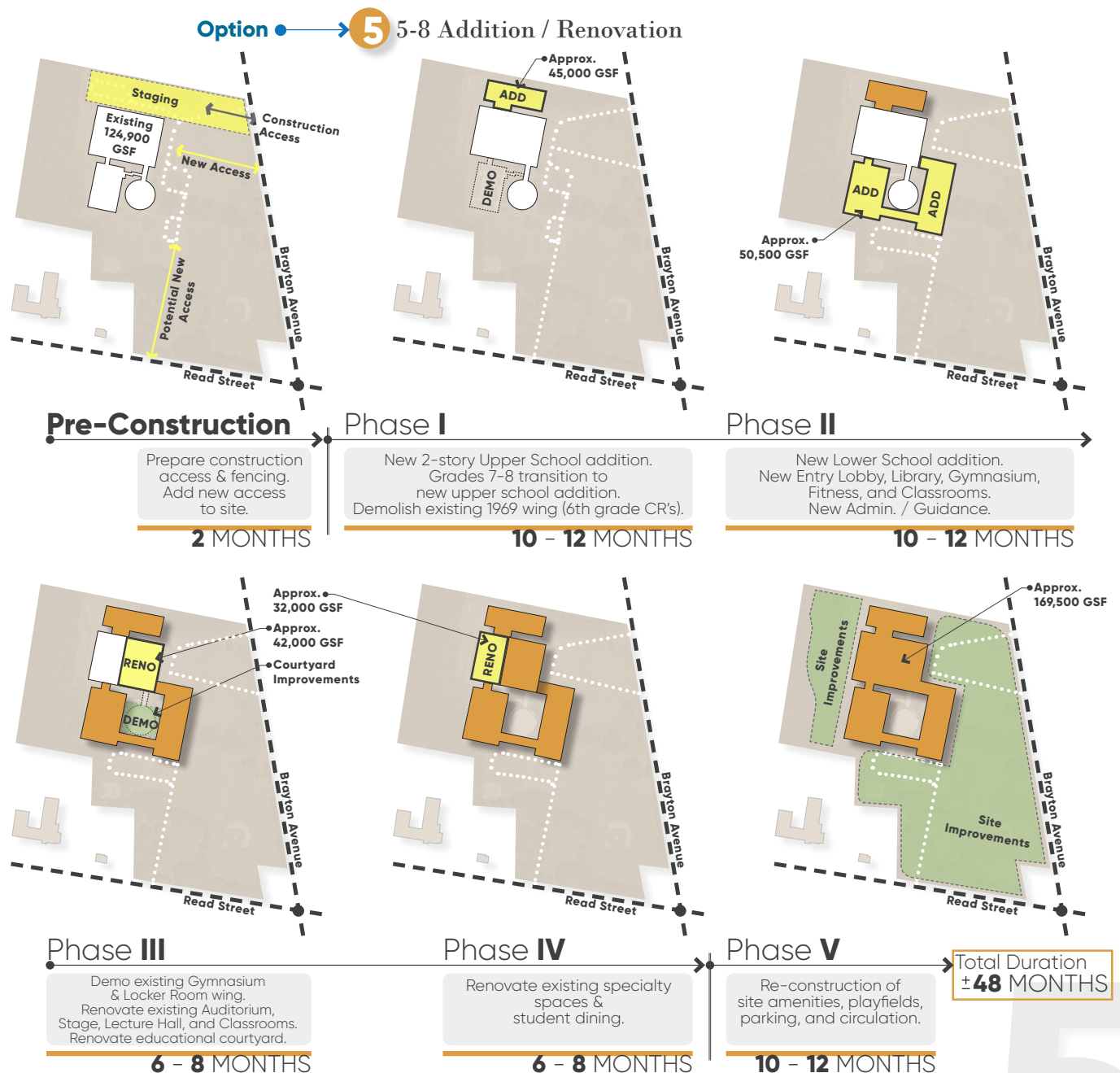
This option has been accepted by the Town, School Department, School Committee, School Building Committee, Board of Selectmen, and design team as one of the three alternatives (options) considered in the Preferred Schematic Report (PSR) phase because of its economic benefit to the Town (both short-term and long-term) and, of the grades 6-8 middle school options, it's the most sustainable and energy-efficient, resolves site vehicular circulation and parking challenges, and has the least impact to the Town, Community, and School during construction.



**Option 5**

- Project 1: Renovate and expand the existing Somerset Middle School building and site for use as a 5-8 middle school (a co-located 5/6 and 7/8 school). This option would require the existing middle school building to be incorporated into the proposed new construction.

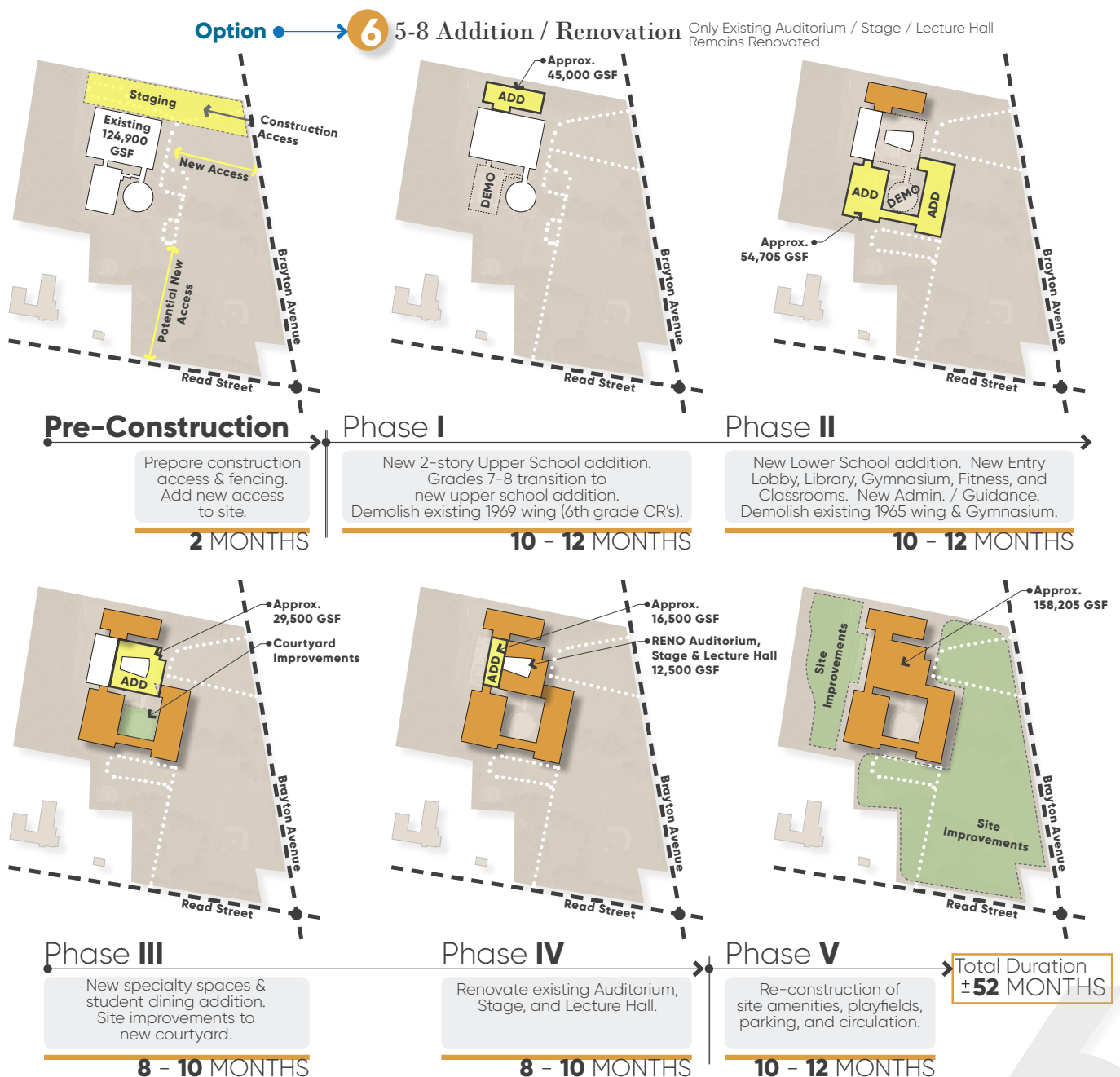
Although similar to Option 2, this option has been rejected by the Town, School Department, School Committee, School Building Committee, Board of Selectmen, and design team because it is significantly more expensive in the long run, includes an extended construction schedule, and is educationally disruptive. This option is not fiscally and educationally responsible and therefore is not considered as an option moving forward.



Option 6

- Renovate the existing auditorium, stage, and lecture hall only, and expand the existing Somerset Middle School building and site to create a new 5-8 middle school. This option would require approximately 10,000 gsf of the existing middle school building to be incorporated into the proposed new building. The remaining proposed gross floor area would be new construction.

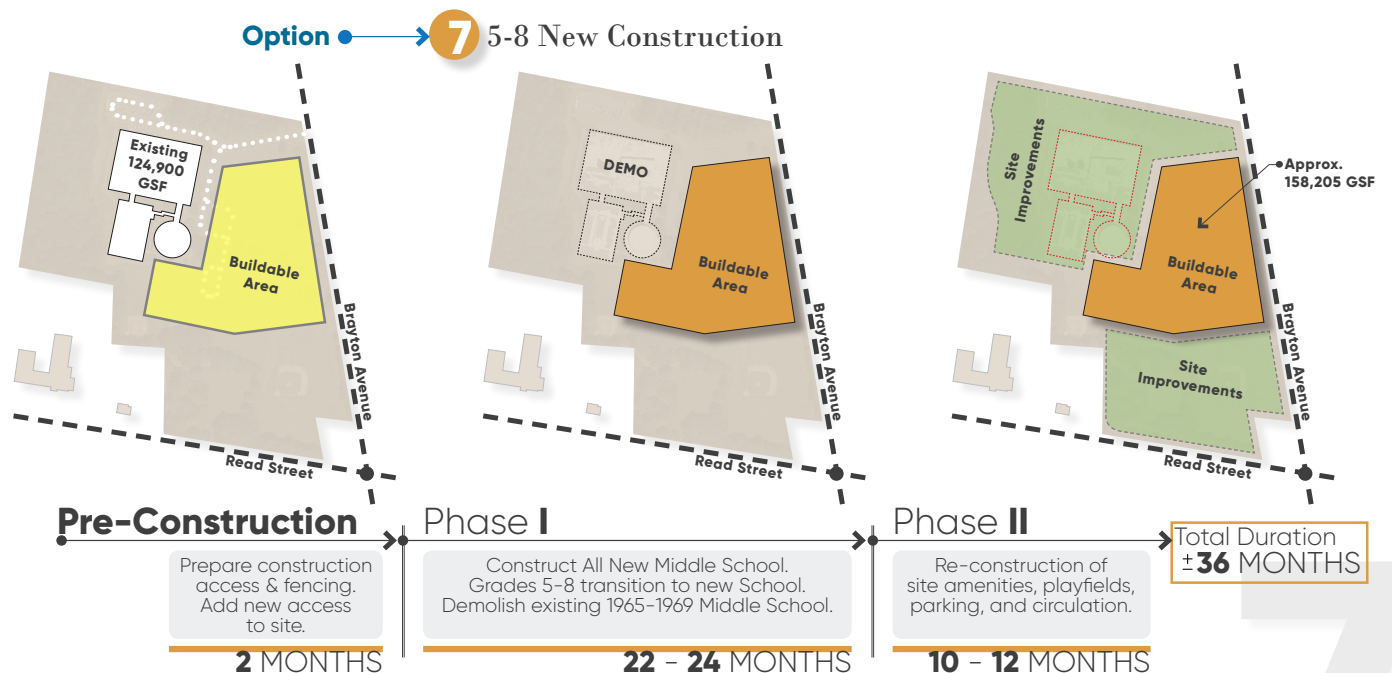
Similar to Option 3, this option was rejected by the Town, School Department, School Committee, Building Committee, Board of Selectmen, and design team because it is significantly more expensive, it involves substantial educational disruption that would occur due to the multi-phased occupied construction, and it has a total project duration of approximately 52 months with the addition of the 5th grade class.



**Option 7**

- Project 1: Construct a new 5-8 middle school (a co-located 5/6 and 7/8 school) on the existing Somerset Middle School site. The existing Somerset Middle School would be demolished upon completion of the new facility.

This option has been accepted by the Town, School Department, School Committee, School Building Committee, Board of Selectmen, and design team as one of the three alternatives (options) considered in the Preferred Schematic Report (PSR) phase because of its short-term and long-term economic benefit to the Town. Of the three options that consider a grades 5-8 middle school model, this option is the least educationally disruptive, most sustainable and energy-efficient, resolves current site vehicular circulation and parking challenges, and has the least overall impact to the Town, Community, and School during construction.



## **Conclusion**

Upon review of the options, the Town, School Department, School Committee, School Building Committee, and Board of Selectmen unanimously determined that pursuit of any options other than those defined in Options 2, 4, and 7 would be a waste of time and resources. The evidence shows that the existing middle school lacks the educational innovation, required program space, necessary program adjacencies, energy efficiency, and sustainability with which a newly constructed school would be outfitted. Although an addition/renovation was an option the Town desired to pursue, no option other than Option 2 was as fiscally responsible and would best meet the District's needs and future goals. This eliminates Options 1, 3, 5, and 6 as a consideration for any further development.

An evaluation of the scoring matrix (included at the end of this section) established as part of the Preliminary Design Program evaluation of options also provides a clear determination for Options 2, 4, and 7 as the best choices for the District. The evaluation criteria were established by many vested parties in the process and were determined to be an accurate depiction of the viability of potential options moving forward. As a result of these reasons and evaluations, Options 1, 3, 5, and 6 were eliminated from further consideration.

Therefore, the District is proposing that the three alternatives (options) considered in the Preferred Schematic Report (PSR) phase be as follows:

### **Option 2**

Renovation and addition to the existing Somerset Middle School Building, creating a 6-8 middle school.

### **Option 4**

New Construction of a 6-8 middle school on the existing middle school site. Demolish the existing middle school building.

### **Option 7**

New Construction of a 5-8 middle school on the existing middle school site. Demolish the existing middle school building.







# Preliminary Evaluation of Alternatives

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## Project Evaluation Criteria / Matrix



Project Evaluation Criteria / Matrix		Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7
Somerset Public Schools, Somerset MA								
<b>12.16.2019</b>								
		Base Repair	6-8 Add/Reno	6-8 Add/Reno (Auditorium)	6-8 New	5-8 Add/Reno	5-8 Add/Reno (Auditorium)	5-8 New
1	Does the option integrate the current Town-wide Economic Masterplan attributes directly related to the Middle School site?	0	10	8	10	10	8	10
2	Does the option sustain and/or expand playfield opportunities for the school and community?	0	8	6	10	8	6	10
3	Does the option reconfigure the existing Somerset Middle School site to maximize indoor/outdoor space and amenities? The opportunities include: outdoor activity zone (educational space), outdoor dining area, amphitheater, fitness and running trails, and an outdoor entry plaza.	0	8	8	10	8	8	10
4	Does the option improve safety of the overall school environment by providing appropriate automobile and bus circulation on site, as well as by providing sufficient parking for visitors, staff, and administration?	0	10	10	10	10	10	10
5	Does the option optimize community use and access of site? Although it is understood that there will be some impact as part of the development of any new project, does the option minimize impact to the Town, community, and School Department throughout construction?	0	8	4	10	8	4	10
6	Will the option have an immediate and recognizable impact on the K-8 school communities?	0	6	2	10	6	2	10
7	Will the option have an immediate and recognizable impact on the K-8 school communities?	0	7	2	8	7	2	10
8	Does the option create a street presence and clearly identifiable main entrance to the building?	0	8	10	10	8	10	10
9	Does the option create a secure, safe, and welcoming entrance environment (greeting and gatekeeping) as identified during the educational visioning process?	0	10	10	10	10	10	10
10	Does the option create the necessary site organization and circulation to satisfy the safety and security concerns identified during the educational visioning process?	0	9	9	10	9	9	10
11	The sharing of resources among the school and community is one of the primary goals identified during the educational visioning process. The Town identified a strong desire to provide clear and distinct separation between the community functions in the building from the core academic spaces. Does the proposed option provide clear access to the community while providing separation from the academic core of the building?	0	8	5	10	8	5	10
12	Does the option provide sufficient 21st Century educational space for middle school students within the Town of Somerset? Specifically, creating the much-needed project labs and hands-on learning environments with fully integrated classrooms, as identified in the educational visioning sessions and educational program, and which are grossly absent from the existing middle school facility.	0	6	8	10	6	8	10
13	Does the option create the necessary adjacencies, program areas, transparency, exhibit space, and other key elements that were identified in the educational visioning and programming process, and that were deemed vital to an appropriate 21 <sup>st</sup> Century learning environment?	0	4	6	10	4	6	10
14	Does the option create the necessary program space and adjacencies to support critical team teaching, collaboration, and parent engagement, which were identified in the educational visioning and programming process, and which were deemed vital to an appropriate 21 <sup>st</sup> Century learning environment?	0	4	6	10	4	6	10
15	Does the option provide a middle school environment that includes all of the necessary program space and adjacencies to achieve the highly detailed goals and guiding principles established in the educational plan and the educational visioning workshops? Specifically, addressing the ideal educational environment for the serviced student population and any of their specialized needs.	0	4	6	10	4	6	10
16	Does the option provide swing space to eliminate the need for phased occupied construction?	0	8	6	10	8	8	10
17	Does the option avoid complicated and educationally disruptive phased construction, which would negatively impact the teaching and learning environments during construction?	0	0	0	8	0	0	8
18	Does the option minimize impact to the educational environment by limiting construction duration? (Shorter construction durations, which minimize impact to the school and community, are obviously more desirable.)	0	6	0	10	2	0	10
19	Does the option provide future expansion possibilities?	0	10	10	10	10	10	10
20	Does the option satisfy the School Committee's future planning goals?	0	8	4	10	8	4	10
21	Although it is understood that some portions of the project may not be eligible for MSBA grant reimbursement funding, does the option maximize the available grant reimbursement funding? (Options which maximize the available grant reimbursement funding are highly desirable.)	0	10	8	10	10	8	10
22	Does the option minimize the Town's financial exposure by avoiding inflation or future changes/unknowns?	0	5	1	10	5	1	10
23	Is the option economical (cost to Somerset) compared to the other options?	0	8	0	10	6	0	10
24	Does the option provide the most energy efficient solution, thereby minimizing long-term operating costs?	0	4	8	10	4	8	10
25	Does the option provide the best opportunity for a sustainable / Zero Net Energy Building (ZNEB) design?	0	6	8	10	6	8	10
26	Does the option provide the best opportunity to provide filtered natural daylighting and minimize solar glare within instructional spaces?	0	4	8	10	4	8	10
27	Does the option create a middle school that will allow the 5/6 grade or 6th grade population to co-exist with the 7/8 grade population? Does the option resolve current adjacency challenges in the existing building by allowing all grade levels to share resources and educational opportunities, while simultaneously maintaining the necessary separations?	0	4	4	10	4	4	10
28	Is the proposed option educationally appropriate, fiscally responsible, and does it provide a solid long-term solution to school and facility needs in the Town?	0	8	0	10	8	0	10
<b>TOTALS</b>		<b>0</b>	<b>191</b>	<b>157</b>	<b>276</b>	<b>185</b>	<b>159</b>	<b>278</b>





# Preliminary Evaluation of Alternatives

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## Conceptual Cost Projections



	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7
	Base Repair	6-8 Add/Reno	6-8 Add/Reno (Auditorium)	6-8 New Construction	5-8 Add/Reno	5-8 Add/Reno (Auditorium)	5-8 New Construction
New Construction GSF	0 SF	75,000 SF	120,981 SF	133,481 SF	95,500 SF	145,705 SF	158,205 SF
Renovation GSF	126,650 SF	74,000 SF	12,500 SF	0 SF	74,000 SF	12,500 SF	0 SF
Total GSF	126,650 SF	149,000 SF	133,481 SF	133,481 SF	169,500 SF	158,205 SF	158,205 SF
Hard Costs (Approx.)	\$31,200,000	\$71,000,000	\$66,000,000	\$66,500,000	\$81,000,000	\$78,500,000	\$79,500,000
Soft Costs (Approx.)	\$7,200,000	\$16,000,000	\$15,000,000	\$15,500,000	\$18,500,000	\$18,000,000	\$18,500,000
Occupied Phase Construction Premium	\$1,600,000	\$3,500,000	\$4,000,000	\$0	\$4,000,000	\$4,700,000	\$0
<b>Subtotal Individual Project Cost (Range)</b>	<b>\$37 - \$42 million</b>	<b>\$88 - \$93 million</b>	<b>\$82 - \$87 million</b>	<b>\$80 - \$85 million</b>	<b>\$101 - \$106 million</b>	<b>\$98 - \$103 million</b>	<b>\$95 - \$100 million</b>
Anticipated total <b>INELIGIBLE</b> costs	\$1,000,000	\$26,800,000	\$22,600,000	\$24,900,000	* \$32,500,000	* \$33,500,000	* \$36,000,000
Individual Project <b>ELIGIBLE COSTS</b>	\$36,000,000	\$64,000,000	\$62,500,000	\$57,000,000	\$71,000,000	\$67,700,000	\$62,000,000
MSBA Reimbursement on <b>ELIGIBLE</b> costs (56.89%)	\$20,500,000	\$36,500,000	\$35,500,000	\$32,500,000	\$40,400,000	\$38,500,000	\$35,200,000
Anticipated total <b>ADDITIONAL MSBA REIMBURSEMENT</b>	\$0	\$2,800,000	\$1,500,000	\$1,200,000	\$2,500,000	\$1,600,000	\$1,300,000
Adjusted <b>TOTAL MSBA REIMBURSEMENT</b>	\$20,500,000	\$39,000,000	\$37,000,000	\$33,700,000	\$42,900,000	\$40,100,000	\$36,500,000
<b>Estimated Cost to Town of Somerset (Middle School Project)</b>	<b>\$14.5 - \$18.5 million</b>	<b>\$48.5 - \$54.5 million</b>	<b>\$45 - \$51 million</b>	<b>\$45.5 - \$51.5 million</b>	<b>\$57.5 - \$63.5 million</b>	<b>\$58.5 - \$64.5 million</b>	<b>\$58 - \$64 million</b>

Option 1    Option 2    Option 3    Option 4    Option 5    Option 6    Option 7

*\*Includes +/-30,000 GSF of 5th grade Program Space and associated Soft Costs - **Approx. \$11,500,000***





# Preliminary Evaluation of Alternatives

## Recommendations for Further Work

**A**rchitects, LLC recommends that a number of components in the feasibility study receive further and more detailed analysis during the next phase of the study and leading up to any recommendations regarding a Preferred Solution as follows:

- A preliminary site and building plan should be developed and analyzed for each option. This will enable an evaluation of the educational benefits that can be provided in the various options and the ability of each option to meet primary objectives defined in the educational visioning and the educational programming. A preliminary site plan will also allow an evaluation of the specific impact on existing playfields, parking, site security, site circulation.
- Cost estimates should be refined to reflect the specific preliminary site and building plans developed within the next phase of the feasibility study. These estimates should also be reviewed with MSBA to refine soft costs and potential eligible vs ineligible costs. Current costs estimates assume a specific \$/sf construction cost based on the existing site and building conditions and a database of similar projects. The renovation/addition costs, along with the proposed costs of a new facility, should be evaluated in more detail in the next phase of the feasibility study.
- The district provided the professional team with a geotechnical report conducted in December 2005 on the existing high school site. This information has been reviewed and a subsequent letter provided with the team's analysis of the information. During the next phase of the feasibility study, the sub-surface conditions should be further evaluated during the next phase to more specifically coordinate with the evaluation of the proposed options. This information will assist the design team with further recommendations regarding the type of foundations that should be considered. The information will also assist with refining the potential cost impact.
- A traffic impact analysis should be completed to analyze the existing onsite and offsite roadway conditions, traffic volumes, capacity analysis, and safety analysis. The traffic impact analysis should also review the "build conditions" and provide recommendations for improvements related to a newly proposed project.





## Local Actions & Approvals

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### Local Actions & Approvals

The Local Actions and Approvals Certification Letter has been executed by the Town's Chief Executive Officer, the Superintendent of Schools, and the School Committee Chair, and is included herein. The meeting minutes for all Somerset Middle School Building Committee (SMSBC) Meetings noted on the certification letter are also included in this section. Each meeting packet includes the agenda, the meeting minutes, and handouts provided to and reviewed with the SMSBC. Each set of meeting minutes are approved by a vote of the committee at the beginning of the subsequent meeting. The vote approving and certifying the minutes are recorded in the minutes. All actions taken by the SMSBC are also recorded in the SMSBC meeting minutes. Actions are authorized by a vote of the committee, and the meeting minutes record the specific vote language and resulting vote.

In addition to the SMSBC Meetings, several other meetings were held during the development of the Preliminary Design Program with the various subcommittees, OPM, Designers, Town and State Officials, School Administrators and Staff.

This section includes the following:

1. Signed Local Actions and Approvals Certification
2. Somerset Middle School Building Committee Agendas and Meeting Minutes
3. Community Forum #1 Presentation Handout
4. Community Forum #2 Presentation Handout

Refer to **Appendix B** for all MSBA Board Actions and Approvals





## Local Actions & Approvals

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### Certification Letter





# Somerset Public Schools Somerset Berkley Regional School District

*All Students Achieving Excellence*

December 20, 2019

**Ms. Mary Pichetti**

Director of Capital Planning  
40 Broad Street  
Boston, Massachusetts 02109

Dear Ms. Pichetti:

The Somerset Middle School Building Committee ("SBC") has completed its review of the Feasibility Study Preliminary Design Program Report for the Somerset Middle School project (the "Project"), and on December 16, 2019, the SBC voted to approve and authorize the Owner's Project Manager to submit the Feasibility Study related materials to the MSBA for its consideration. A certified copy of the SBC meeting minutes, which includes the specific language of the vote and the number of votes in favor, opposed, and abstained, are attached.

Since the MSBA's Board of Directors invited the District to conduct a Feasibility Study on October 31, 2018, the SBC has held sixteen (16) meetings regarding the proposed project, in compliance with the state Open Meeting Law. These meetings include:

**School Building Committee Meetings**

June 21, 2018	December 10, 2018	July 15, 2019
August 27, 2018	January 23, 2019	September 16, 2019
September 17, 2018	March 18, 2019	October 7, 2019
October 15, 2018	April 22, 2019	November 4, 2019
November 19, 2018	June 24, 2019	November 25, 2019
		December 16, 2019

Building Committee meetings and agendas were posted on the Town of Somerset website (townofsomerset.org), Somerset Town Hall outdoor bulletin, and on the School District website (somersetschools.org). Agendas and certified Meeting Minutes are enclosed. The presentation materials for each meeting, meeting minutes, and summary materials related to the Project are available locally for public review at the Superintendent's Office and on the District's website.

580 Whetstone Hill Road · Somerset, MA 02726 · P 508-324-3100 · [www.somersetschools.org](http://www.somersetschools.org)

Superintendent Jeffrey Schoonover

Somerset Berkley Regional High School · Somerset Middle School · North Elementary School

South Elementary School · Chace Street Elementary School











## Local Actions & Approvals

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### SMSBC Meeting Minutes





# TOWN OF SOMERSET MEETING NOTICE

Received & Posted _____	Time: _____
Town Clerk	

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:**

Somerset Middle School Building Committee

**Date & Time of Meeting:**

Thursday, June 21, 2018 at 6:00 pm

**Location of Meeting:**

Somerset Middle School Media Center, 1141 Brayton Ave., Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Administrative Assistant to the Superintendent

June 4, 2018

**Clerk/Board Member posting notice & date**

Cancelled or postponed to:  
(circle cancelled/postponed)

Clerk/Board Member cancelling/postponing meeting

## AGENDA / LIST OF TOPICS

- I. Formal Establishment of Building Committee
- II. Recommendations and Vote of Building Committee Chair and Recording Secretary
- III. Next Steps with Feasibility Study
- IV. Other Matters

## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 001

<b>PROJECT:</b>	Somerset Middle School Building
<b>LOCATION:</b>	1141 Brayton Avenue, Somerset, MA
<b>MEETING LOCATION:</b>	Somerset North Elementary School
<b>TIME:</b>	6:30 pm
<b>DATE:</b>	06/21/2018
<b>NEXT MEETING:</b>	<b>08/27/2018</b>
<b>DISTRIBUTION:</b>	Attendees; Richard Brown ( <a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a> ); Michael Botelho ( <a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a> ); Holly McNamara ( <a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a> ); Paulina Camara ( <a href="mailto:paulina.camara@somersetschools.org">paulina.camara@somersetschools.org</a> )

## ATTENDEES

NAME	TITLE	TELEPHONE	E-MAIL
<b>JEFF SCHOONOVER</b>	Superintendent of Schools	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
<b>LINDSEY ALBERNAZ</b>	Dir. of Business & Fin., SPS	508-324-3100 (212)	<a href="mailto:albernazl@sbregional.org">albernazl@sbregional.org</a>
<b>VICTOR MACHADO</b>	School Committee Member	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
<b>EDWARD CALLAHAN</b>	Assistant Principal @ SMS	508-324-3140	<a href="mailto:Edward.callahan@somersetschools.org">Edward.callahan@somersetschools.org</a>
<b>CHRIS GODET</b>	Chair of Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
<b>CARLOS CAMPOS</b>	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
<b>KATHLEEN BYERS</b>	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
<b>CASSEY MONTE</b>	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
<b>STEVEN MEDEIROS</b>	Registered Architect	508-496-5027	<a href="mailto:smedeiros@bkaarchs.com">smedeiros@bkaarchs.com</a>
<b>ROBERT LIMA</b>	Superintendent of Somerset HW/Water Dept., Retired	508-	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
<b>KEVIN SCANLON</b>	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanlon819@yahoo.com">Krscanlon819@yahoo.com</a>

## I NEW BUSINESS ITEMS

No.	DATE	ISSUES	ACTION
1.01	06/21/18	The Building Committee recommended and voted: <ol style="list-style-type: none"> <li>1. Steven Medeiros will be the Recording Secretary.</li> <li>2. Lindsey Albernaz will be the Building Committee Chair.</li> <li>3. Jeff Schoonover will be the Building Committee Vice-Chair.</li> </ol>	Record
1.02	06/21/18	There will be thirteen (13) voting members including Mr. Edward Callahan. More than half voting members will be needed for a quorum.	Record

1.03	06/21/18	<p>Statement of Interest submitted in March which states work needing to be addressed including, but not limited to, required maintenance.</p> <p>May 1<sup>st</sup> is the start of the 270-day Eligibility Period which is broken out as follows:</p> <ol style="list-style-type: none"> <li>1. Up to 30 days to submit Initial Compliance Certification (ICC) form. The form has been submitted.</li> <li>2. Up to 60 days to submit School Building Committee (SBC) form. Copy of the document distributed to the group for their record and review. Who should sign the document? Lindsey Albernaz to look into the Somerset By-Laws.</li> <li>3. Up to 90 days to submit the Educational Profile form (due July 31<sup>st</sup>).</li> <li>4. Up to 180 days to submit the Maintenance Document and Enrollment Certification.</li> <li>5. Up to 270 days to submit Local Authorization of Funding. This item was completed on May 21<sup>st</sup>.</li> </ol>	Lindsey
1.04	06/21/18	Chris Godet indicated that the SBC should be looking to accelerate the schedule, if possible. Lindsey indicated that the MSBA Board of Directors meet monthly and submission to the MSBA Board of Directors in October is realistic. The SBC will aim for October.	Record
1.05	06/21/18	Kevin Scanlon stated that the study should include 5 to 8 options.	Record
1.06	06/21/18	It was stated that there are twelve classes at the South Elementary School (Two for each grade).	Record
1.07	06/21/18	Lindsey to begin work on Request for Qualifications (RFQ) for an Owner's Project Manager (OPM).	Lindsey
1.08	06/21/18	Two-year-old Capital Plan to be updated.	Record

**ATTACHMENTS:**

1. Draft of the Somerset Building Committee Form handed out to the Building Committee Members.
2. Town of Somerset Meeting Notice with documents from the Massachusetts School Building Authority (MSBA) website attached.

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*





**TOWN OF SOMERSET  
MEETING NOTICE**

Received & Posted _____ Time: _____
_____ Town Clerk

(PLEASE PRINT OR TYPE LEGIBLY)

Name of Board or Committee: Somerset School Committee – SMS MSBA Building Committee Meeting

Date & Time of Meeting: Monday, August 27, 2018 at 6:30 pm

Location of Meeting: Superintendent’s Conference Room in North Elementary School,  
580 Whetstone Hill Road, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Recording Secretary

August 14, 2018

**Clerk/Board Member posting notice & date**

Cancelled or postponed to: \_\_\_\_\_  
(circle cancelled/postponed)

\_\_\_\_\_  
Clerk/Board Member cancelling/postponing meeting

**AGENDA / LIST OF TOPICS**

- I. MSBA Deliverables
- II. Timeline
- III. Other Items

**SMS: Somerset Middle School**  
**MSBA: Massachusetts School Building Authority**



## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 002

<b>PROJECT:</b>	Somerset Middle School Building
<b>LOCATION:</b>	1141 Brayton Avenue, Somerset, MA
<b>MEETING LOCATION:</b>	Somerset North Elementary School
<b>TIME:</b>	6:30 pm
<b>DATE:</b>	08/27/2018
<b>NEXT MEETING:</b>	<b>09/17/2018</b>
<b>UPCOMING MEETINGS:</b>	<b>10/15/2018</b> <b>12/17/2018</b>
<b>DISTRIBUTION:</b>	Attendees; Richard Brown ( <a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a> ); Edward Callahan ( <a href="mailto:Edward.callahan@somersetschools.org">Edward.callahan@somersetschools.org</a> )

## ATTENDEES

NAME	TITLE	TELEPHONE	E-MAIL
<b>HOLLY MCNAMARA</b>	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
<b>JEFF SCHOONOVER</b>	Superintendent of Schools	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
<b>LINDSEY ALBERNAZ</b>	Dir. of Business & Fin., SPS	508-324-3100 (212)	<a href="mailto:albernazl@sbregional.org">albernazl@sbregional.org</a>
<b>VICTOR MACHADO</b>	School Committee Member	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
<b>MICHAEL BOTELHO</b>	School Committee Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
<b>PAULINE CAMARA</b>	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
<b>CHRIS GODET</b>	Chair of Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
<b>CARLOS CAMPOS</b>	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
<b>KATHLEEN BYERS</b>	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
<b>CASSEY MONTE</b>	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
<b>STEVEN MEDEIROS</b>	Registered Architect	508-496-5027	<a href="mailto:smedeiros@bkaarchs.com">smedeiros@bkaarchs.com</a>
<b>ROBERT LIMA</b>	Superintendent of Somerset HW/Water Dept., Retired	508-	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
<b>KEVIN SCANLON</b>	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanlon819@yahoo.com">Krscanlon819@yahoo.com</a>

## I OLD BUSINESS ITEMS

No.	DATE	ISSUES	ACTION
1.03	08/27/18	<p>The Educational Profile and Maintenance Documents &amp; Enrollment Certification will be submitted on October 30th to get on the MSBC Board meeting on Wednesday, December 12th.</p> <p>There will be a Monday, September 10<sup>th</sup> Meeting with the MSBC who are looking to hear from the Town. Jeff Schoonover, Lindsey Albernaz and Victor Machado will attend the meeting and present floor plans of the elementary schools and show that there is not much extra space in these schools. The group will give Enrollment Certificate for completion and provide enrollment numbers and projected numbers based on Somerset birth rates. Jeff Schoonover distributed copies of the MSBA Enrollment Projection – Somerset dated August, 2018 to the group which shows historic enrollment data.</p>	<p>Lindsey</p> <p>Jeff, Lindsey, Victor</p>

	06/21/18	Statement of Interest submitted in March which states work needing to be addressed including, but not limited to, required maintenance.  May 1 <sup>st</sup> is the start of the 270-day Eligibility Period which is broken out as follows: <ol style="list-style-type: none"> <li>1. Up to 30 days to submit Initial Compliance Certification (ICC) form. The form has been submitted.</li> <li>2. Up to 60 days to submit School Building Committee (SBC) form. Copy of the document distributed to the group for their record and review. Who should sign the document? Lindsey Albarnaz to look into the Somerset By-Laws.</li> <li>3. Up to 90 days to submit the Educational Profile form (due July 31<sup>st</sup>).</li> <li>4. Up to 180 days to submit the Maintenance Document and Enrollment Certification.</li> <li>5. Up to 270 days to submit Local Authorization of Funding. This item was completed on May 21<sup>st</sup>.</li> </ol>	Lindsey
<b>1.04</b>	08/27/18	<b>Paperwork will be filed on October 30th to get on the docket for the December meeting.</b>	Record
	06/21/18	Chris Godet indicated that the SBC should be looking to accelerate the schedule, if possible. Lindsey indicated that the MSBA Board of Directors meet monthly and submission to the MSBA Board of Directors in October is realistic. The SBC will aim for October.	Record
<b>1.07</b>	08/27/18	<b>Work on the RFQ will pick up later; the focus at this time is the submission to the MSBC. This item will pick back up after the December MSBC meeting.</b>	Record
	06/21/18	Lindsey to begin work on Request for Qualifications (RFQ) for an Owner's Project Manager (OPM).	Lindsey

<b>II NEW BUSINESS ITEMS</b>			
<b>No.</b>	<b>DATE</b>	<b>ISSUES</b>	<b>ACTION</b>
<b>2.01</b>	<b>08/27/18</b>	<b>Victor Machado motioned to approve the SMS Building Committee Meeting Minutes No. 001. The content of the meeting minutes was approved and passed by the SBC.</b>	Record

**ATTACHMENTS:**

1. MSBA Enrollment Projection – Somerset dated August, 2018

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*





# TOWN OF SOMERSET MEETING NOTICE

Received & Posted _____	Time: _____
_____	
Town Clerk	

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, September 17, 2018 at 6:30 pm

**Location of Meeting:** Superintendent's Conference Room in North Elementary School, 580 Whetstone Hill Road, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Administrative Assistant to the Superintendent  
September 5, 2018  
**Clerk/Board Member posting notice & date**

Cancelled or postponed to:  
(circle cancelled/postponed)

Clerk/Board Member cancelling/postponing meeting

## AGENDA / LIST OF TOPICS

- I. MSBA Deliverables
- II. Timeline
- III. Other Matters

**MSBA: Massachusetts School Building Authority**

**SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES****MEETING NO. 003**

<b>Project:</b>	Somerset Middle School Building
<b>Project Location:</b>	1141 Brayton Avenue, Somerset
<b>Meeting Location:</b>	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA
<b>Time:</b>	6:30 pm
<b>Date:</b>	09/17/2018
<b>Next Meeting:</b>	<b>10/15/2018</b>
<b>Upcoming Meetings:</b>	<b>11/19/2018</b> <b>12/17/2018</b>

**ATTENDEES**

Name	Title	Telephone	E-Mail
Jeff Schoonover	Superintendent of Schools	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
Lindsey Albernaz	Dir. of Business & Fin., SPS	508-324-3100 (212)	<a href="mailto:albernazl@sbregional.org">albernazl@sbregional.org</a>
Victor Machado	School Committee Member	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
Michael Botelho	School Committee Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
Pauline Camara (Absent)	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
Edward Callahan (Absent)	Vice Principal @ SMS	508-324-3140	<a href="mailto:Edward.Callahan@somersetschools.org">Edward.Callahan@somersetschools.org</a>
Chris Godet	Chair of Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
Carlos Campos	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
Kathleen Byers	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
Cassey Monte (Absent)	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
Steven Medeiros (Absent)	Registered Architect	508-496-5027	<a href="mailto:smedeiros@bkaarchs.com">smedeiros@bkaarchs.com</a>
Robert Lima	Superintendent of Somerset Water Dept., Retired	508-	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
Kevin Scanlon	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanlon819@yahoo.com">Krscanlon819@yahoo.com</a>
Holly McNamara (Non-Voting) – Absent	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
Steve Moniz (Non-Voting)	Board of Selectmen, Member	508-646-2800	<a href="mailto:smoniz@town.somerset.ma.us">smoniz@town.somerset.ma.us</a>
Richard Brown (Non-voting) Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

**I OLD BUSINESS ITEMS**

No.	Date	Issues	Action
1.03	09/17/18	Meeting held on September 10 <sup>th</sup> with the MSBA with Lindsey Albernaz, Victor Machado and Jeff Schoonover to discuss the enrollment projections for the Middle School utilizing a 6-8 grade structure and a 5-8 grade structure. The MSBA indicated the max population projection for the 6-8 grade configuration to be 595 students on average for the next 10 years.	N/a

	<p>Enrollment Projection sheets shared at the meeting were circulated to members of the Building Committee for review. MSBA projected a decline of population over the next 10 years. Jeff Schoonover indicated that Families are moving into Town and more kids are coming in to the District than moving out, which is not indicated on the MSBA projection sheet. MSBA assumes birth rates for the majority of projections. Lindsey Albarnaz discussed the maintenance document and indicated it would be finalized by the end of the week of 09/19/2018.</p> <p>Both the Maintenance Document and Signed Enrollment Certificate would need to be signed 10/30/18 and submitted to meet the December MSBA Board of Directors meeting.</p> <p>Kevin Scanlon made a motion to authorize the building committee to look at both options of the Middle School grade configuration (6-8 and 5-8), seconded by Victor Machado. Board voted unanimously in favor.</p>	<p>Lindsey and Jeff</p> <p>Record</p> <p>Record</p>
08/27/18	<p>The Educational Profile and Maintenance Documents &amp; Enrollment Certification will be submitted on October 30th to get on the MSBC Board meeting on Wednesday, December 12th.</p> <p>There will be a Monday, September 10<sup>th</sup> Meeting with the MSBC who are looking to hear from the Town. Jeff Schoonover, Lindsey Albarnaz and Victor Machado will attend the meeting and present floor plans of the elementary schools and show that there is not much extra space in these schools. The group will give Enrollment Certificate for completion and provide enrollment numbers and projected numbers based on Somerset birth rates. Jeff Schoonover distributed copies of the MSBA Enrollment Projection – Somerset dated August, 2018 to the group which shows historic enrollment data.</p>	<p>Lindsey</p> <p>Jeff, Lindsey, Victor</p>
06/21/18	<p>Statement of Interest submitted in March which states work needing to be addressed including, but not limited to, required maintenance.</p> <p>May 1<sup>st</sup> is the start of the 270-day Eligibility Period which is broken out as follows:</p> <ol style="list-style-type: none"> <li>1. Up to 30 days to submit Initial Compliance Certification (ICC) form. The form has been submitted.</li> <li>2. Up to 60 days to submit School Building Committee (SBC) form. Copy of the document distributed to the group for their record and review. Who should sign the document? Lindsey Albarnaz to look into the Somerset By-Laws.</li> <li>3. Up to 90 days to submit the Educational Profile form (due July 31<sup>st</sup>).</li> <li>4. Up to 180 days to submit the Maintenance Document and Enrollment Certification.</li> <li>5. Up to 270 days to submit Local Authorization of Funding. This item was completed on May 21<sup>st</sup>.</li> </ol>	<p>Lindsey</p>

II NEW BUSINESS ITEMS			
No.	Date	Issues	Action

Lindsey Albernaz made a motion to adjourn meeting. Seconded by Jeff Schoonover. Voted unanimously to adjourn meeting at 7:15pm.

**ATTACHMENTS:**

1. MSBA Enrollment Projection – Dated September 2018

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Lindsey Albernaz if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*

A handwritten signature in black ink, appearing to be 'L. Albernaz', written in a cursive style.



**TOWN OF SOMERSET  
MEETING NOTICE**

Received & Posted _____	Time: _____
_____	
Town Clerk	

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, October 15, 2018 at 6:30 pm

**Location of Meeting:** Superintendent's Conference Room in North Elementary School  
580 Whetstone Hill Road, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Administrative Assistant to the Superintendent  
October 4, 2018

**Clerk/Board Member posting notice & date**

Cancelled or postponed to:  
(circle cancelled/postponed)

Clerk/Board Member cancelling/postponing meeting

**AGENDA / LIST OF TOPICS**

- I. MSBA Deliverables
- II. Timeline
- III. Other Matters

**MSBA: Massachusetts School Building Authority**

## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 004

<b>Project:</b>	Somerset Middle School Building
<b>Project Location:</b>	1141 Brayton Avenue, Somerset, MA
<b>Meeting Location:</b>	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA
<b>Time:</b>	6:30 pm
<b>Date:</b>	10/27/2018
<b>Next Meeting:</b>	<b>11/19/2018</b>
<b>Upcoming Meetings:</b>	<b>12/17/2018</b>
<b>Distribution:</b>	Attendees; Richard Brown ( <a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a> ); Edward Callahan ( <a href="mailto:Edward.callahan@somersetschools.org">Edward.callahan@somersetschools.org</a> )

## ATTENDEES

Name	Title	Telephone	E-Mail
Jeff Schoonover	Superintendent of Schools	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
Lindsey Albarnaz	Dir. of Business & Fin., SPS	508-324-3100 (212)	<a href="mailto:albernazl@sbregional.org">albernazl@sbregional.org</a>
Victor Machado	School Committee Member	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
Michael Botelho	School Committee Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
Pauline Camara	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
Edward Callahan (Absent)	Vice Principal @ SMS	508-324-3140	<a href="mailto:Edward.Callahan@somersetschools.org">Edward.Callahan@somersetschools.org</a>
Chris Godet	Chair of Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
Carlos Campos	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
Kathleen Byers	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
Cassey Monte	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
Steven Medeiros	Registered Architect	508-496-5027	<a href="mailto:smedeiros@bkaarchs.com">smedeiros@bkaarchs.com</a>
Robert Lima	Superintendent of Somerset Water Dept., Retired	508-	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
Kevin Scanlon	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanlon819@yahoo.com">Krscanlon819@yahoo.com</a>
Holly McNamara (Non-Voting) – Absent	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
Steve Moniz (Non-Voting)	Board of Selectmen, Member	508-646-2800	<a href="mailto:smoniz@town.somerset.ma.us">smoniz@town.somerset.ma.us</a>
Richard Brown (Non-voting) Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

## I OLD BUSINESS ITEMS

No.	Date	Issues	Action
1.03	10/15/18	Maintenance Document and Signed Enrollment Certificate were submitted on the week of September 24 <sup>th</sup> . Projection numbers were included in the Enrollment Letter.	Record



	<p>Lindsey Albernaz, Michael Botelho, Victor Machado and Jeff Schoonover to attend board meeting on October 31<sup>st</sup>. Looking to get the approval to move forward. SMS Committee will review next meeting.</p>	Lindsey/ Michael/ Victor/Jeff
	<p>Exhibit A was sent in by October 10<sup>th</sup>.</p>	Record
	<p>Cost of grade 5 will not be reimbursed by the MSBC; The MSBC will only reimburse for grades 6 – 8 option. Kevin Scanlon indicated that the grade 5 option should be included in the study.</p>	Record
09/17/18	<p>Meeting held on September 10<sup>th</sup> with the MSBA with Lindsey Albernaz, Victor Machado and Jeff Schoonover to discuss the enrollment projections for the Middle School utilizing a 6-8 grade structure and a 5-8 grade structure. The MSBA indicated the max population projection for the 6-8 grade configuration to be 595 students on average for the next 10 years.</p>	N/a
	<p>Enrollment Projection sheets shared at the meeting were circulated to members of the Building Committee for review. MSBA projected a decline of population over the next 10 years. Jeff Schoonover indicated that Families are moving into Town and more kids are coming in to the District than moving out, which is not indicated on the MSBA projection sheet. MSBA assumes birth rates for the majority of projections. Lindsey Albernaz discussed the maintenance document and indicated it would be finalized by the end of the week of 09/19/2018.</p>	Lindsey and Jeff
	<p>Both the Maintenance Document and Signed Enrollment Certificate would need to be signed 10/30/18 and submitted to meet the December MSBA Board of Directors meeting.</p>	Record
	<p>Kevin Scanlon made a motion to authorize the building committee to look at both options of the Middle School grade configuration (6-8 and 5-8), seconded by Victor Machado. Board voted unanimously in favor.</p>	Record
08/27/18	<p>The Educational Profile and Maintenance Documents &amp; Enrollment Certification will be submitted on October 30<sup>th</sup> to get on the MSBC Board meeting on Wednesday, December 12<sup>th</sup>.</p>	Lindsey
	<p>There will be a Monday, September 10<sup>th</sup> Meeting with the MSBC who are looking to hear from the Town. Jeff Schoonover, Lindsey Albernaz and Victor Machado will attend the meeting and present floor plans of the elementary schools and show that there is not much extra space in these schools. The group will give Enrollment Certificate for completion and provide enrollment numbers and projected numbers based on Somerset birth rates. Jeff Schoonover distributed copies of the MSBA Enrollment Projection – Somerset dated August, 2018 to the group which shows historic enrollment data.</p>	Jeff, Lindsey, Victor
	<p>Statement of Interest submitted in March which states work needing to be addressed including, but not limited to, required maintenance.</p>	

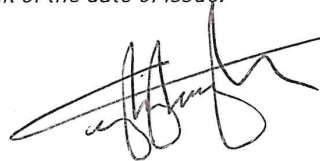
	06/21/18	May 1 <sup>st</sup> is the start of the 270-day Eligibility Period which is broken out as follows: <ol style="list-style-type: none"> <li>1. Up to 30 days to submit Initial Compliance Certification (ICC) form. The form has been submitted.</li> <li>2. Up to 60 days to submit School Building Committee (SBC) form. Copy of the document distributed to the group for their record and review. Who should sign the document? Lindsey Albarnaz to look into the Somerset By-Laws.</li> <li>3. Up to 90 days to submit the Educational Profile form (due July 31<sup>st</sup>).</li> <li>4. Up to 180 days to submit the Maintenance Document and Enrollment Certification.</li> <li>5. Up to 270 days to submit Local Authorization of Funding. This item was completed on May 21<sup>st</sup>.</li> </ol>	Lindsey
1.04	10/15/18	<b>Close; Refer to line item 1.03.</b>	<b>Closed</b>
	08/27/18	Paperwork will be filed on October 30th to get on the docket for the December meeting.	Record
	06/21/18	Chris Godet indicated that the SBC should be looking to accelerate the schedule, if possible. Lindsey indicated that the MSBA Board of Directors meet monthly and submission to the MSBA Board of Directors in October is realistic. The SBC will aim for October.	Record
1.07	10/15/18	<b>Group reviewed OPM and Architect selection process. Subcommittee to be discussed at the next meeting.</b>	<b>Record</b>
	08/27/18	Work on the RFQ will pick up later; the focus at this time is the submission to the MSBC. This item will pick back up after the December MSBC meeting.	Record
	06/21/18	Lindsey to begin work on Request for Qualifications (RFQ) for an Owner's Project Manager (OPM).	Lindsey
3.01	09/17/18	Discussion regarding ensuring the Board stays within the \$800,000.00 allocated funds with the estimated 57% reimbursement rate for the Feasibility Study process.	Record

<b>II NEW BUSINESS ITEMS</b>			
No.	Date	Issues	Action
4.01	10/15/18	SMS Building Committee Meeting Minutes No. 002 and 003 were reviewed and passed by the SBC.	Record

**ATTACHMENTS:**

1. None

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*





# TOWN OF SOMERSET MEETING NOTICE

Received & Posted _____	Time: _____
Town Clerk	

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, November 19, 2018 at 6:00 pm

**Location of Meeting:** School Committee Room in North Elementary School  
580 Whetstone Hill Road, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Administrative Assistant to the Superintendent  
November 7, 2018

**Clerk/Board Member posting notice & date**

Cancelled or **postponed to:**  
(circle cancelled/postponed)

Clerk/Board Member cancelling/postponing meeting

## AGENDA / LIST OF TOPICS

- I. October 31 MSBA Board of Directors Meeting Result
- II. Feasibility Study Timeline
- III. Owner’s Project Manager (OPM) Review Subcommittee
- IV. Request for Services (RFS) Template Review Meeting Schedule
- V. Minutes Review and Approval
- VI. Other Items

**MSBA: Massachusetts School Building Authority**

## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 005

Project:	Somerset Middle School Building
Project Location:	1141 Brayton Avenue, Somerset, MA
Meeting Location:	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA
Time:	6:00 pm – 7:00 pm
Date:	11/19/2018
Next Meeting:	12/10/2018
Upcoming Meetings:	01/23/2019 02/04/2019

## ATTENDEES

Name	Title	Telephone	E-Mail
Jeff Schoonover	Superintendent of Schools	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
Lindsey Albernaz (OPM Selection Sub-Committee)	Dir. of Business & Fin., SPS	508-324-3100 (212)	<a href="mailto:albernazl@sbregional.org">albernazl@sbregional.org</a>
Victor Machado	School Committee Member	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
Michael Botelho	School Committee Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
Pauline Camara (Absent)	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
Edward Callahan (Absent)	Vice Principal @ SMS	508-324-3140	<a href="mailto:Edward.Callahan@somersetschools.org">Edward.Callahan@somersetschools.org</a>
Chris Godet (Absent)	Chair of Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
Carlos Campos (OPM Selection Sub-Committee)	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
Kathleen Byers	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
Cassey Monte (Absent)	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
Steven Medeiros (OPM Selection Sub-Committee)	Registered Architect	508-496-5027	<a href="mailto:smedeiros@bkaarchs.com">smedeiros@bkaarchs.com</a>
Robert Lima (OPM Selection Sub-Committee)	Superintendent of Somerset Water Dept., Retired	508-672-1272 774-713-0480	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
Kevin Scanlon (OPM Selection Sub-Committee)	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanlon819@yahoo.com">Krscanlon819@yahoo.com</a>
Holly McNamara (Non-Voting) - Absent	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
Steve Moniz (Non-Voting) - Absent	Board of Selectmen, Member	508-646-2800	<a href="mailto:smoniz@town.somerset.ma.us">smoniz@town.somerset.ma.us</a>
Richard Brown (Non-voting) - Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

I OLD BUSINESS ITEMS			
No.	Date	Issues	Action
1.03	11/19/18	SMSBC members who volunteered to meet with the MSBA Board were not required to travel into Boston for the October 31 <sup>st</sup> meeting. Instead the MSBA Board discussed and approved the SMSBC's moving forward via a conference call. (Close.)	Record/ Close
	10/15/18	Maintenance Document and Signed Enrollment Certificate were submitted on the week of September 24 <sup>th</sup> . Projection numbers were included in the Enrollment Letter.	Record
		Lindsey Albernaz, Michael Botelho, Victor Machado and Jeff Schoonover to attend board meeting on October 31 <sup>st</sup> . Looking to get the approval to move forward. SMS Committee will review next meeting.	Lindsey/ Michael/ Victor/Jeff
		Exhibit A was sent in by October 10 <sup>th</sup> .	Record
		Cost of grade 5 will not be reimbursed by the MSBC; The MSBC will only reimburse for grades 6 – 8 option. Kevin Scanlon indicated that the grade 5 option should be included in the study.	Record
	09/17/18	Meeting held on September 10 <sup>th</sup> with the MSBA with Lindsey Albernaz, Victor Machado and Jeff Schoonover to discuss the enrollment projections for the Middle School utilizing a 6-8 grade structure and a 5-8 grade structure. The MSBA indicated the max population projection for the 6-8 grade configuration to be 595 students on average for the next 10 years.	N/a
		Enrollment Projection sheets shared at the meeting were circulated to members of the Building Committee for review. MSBA projected a decline of population over the next 10 years. Jeff Schoonover indicated that Families are moving into Town and more kids are coming in to the District than moving out, which is not indicated on the MSBA projection sheet. MSBA assumes birth rates for the majority of projections. Lindsey Albernaz discussed the maintenance document and indicated it would be finalized by the end of the week of 09/19/2018.	Lindsey and Jeff
		Both the Maintenance Document and Signed Enrollment Certificate would need to be signed 10/30/18 and submitted to meet the December MSBA Board of Directors meeting.	Record
		Kevin Scanlon made a motion to authorize the building committee to look at both options of the Middle School grade configuration (6-8 and 5-8), seconded by Victor Machado. Board voted unanimously in favor.	Record
	08/27/18	The Educational Profile and Maintenance Documents & Enrollment Certification will be submitted on October 30th to get on the MSBC Board meeting on Wednesday, December 12th.	Lindsey

		<p>There will be a Monday, September 10<sup>th</sup> Meeting with the MSBC who are looking to hear from the Town. Jeff Schoonover, Lindsey Albernaz and Victor Machado will attend the meeting and present floor plans of the elementary schools and show that there is not much extra space in these schools. The group will give Enrollment Certificate for completion and provide enrollment numbers and projected numbers based on Somerset birth rates. Jeff Schoonover distributed copies of the MSBA Enrollment Projection – Somerset dated August, 2018 to the group which shows historic enrollment data.</p> <p>Statement of Interest submitted in March which states work needing to be addressed including, but not limited to, required maintenance.</p>	<p>Jeff, Lindsey, Victor</p>
	06/21/18	<p>May 1<sup>st</sup> is the start of the 270-day Eligibility Period which is broken out as follows:</p> <ol style="list-style-type: none"> <li>1. Up to 30 days to submit Initial Compliance Certification (ICC) form. The form has been submitted.</li> <li>2. Up to 60 days to submit School Building Committee (SBC) form. Copy of the document distributed to the group for their record and review. Who should sign the document? Lindsey Albernaz to look into the Somerset By-Laws.</li> <li>3. Up to 90 days to submit the Educational Profile form (due July 31<sup>st</sup>).</li> <li>4. Up to 180 days to submit the Maintenance Document and Enrollment Certification.</li> <li>5. Up to 270 days to submit Local Authorization of Funding. This item was completed on May 21<sup>st</sup>.</li> </ol>	Lindsey
1.07	11/19/18	<p>The SMSBC discussed potential candidates for the five member OPM Selection Sub-Committee for a vote. After discussion Victor Machado motioned to have the Sub-Committee Members be Lindsey Albernaz, Carlos Campos, Robert Lima, Kevin Scanlon and Steven Medeiros. Michael Botelho seconded the motion. All SMSBC voting members present voted unanimously in favor.</p>	Record
		<p>Lindsey Albernaz to discuss OPM Selection Sub-Committee at the School Committee Meeting tomorrow (11/20) night.</p>	Lindsey
		<p>Kevin Scanlon recommended that the OPM Selection Sub-Committee short list the applications received down to three candidates to be interviewed by the entire SMSBC.</p>	Record
		<p>Lindsey Albernaz to have a MSBA OPM Selection Panel Review conference call with Alison Jones (MSBA) on Monday, March 4<sup>th</sup>.</p>	Lindsey
	10/15/18	<p>Group reviewed OPM and Architect selection process. Subcommittee to be discussed at the next meeting.</p>	Record
	08/27/18	<p>Work on the RFQ will pick up later; the focus at this time is the submission to the MSBC. This item will pick back up after the December MSBC meeting.</p>	Record
	06/21/18	<p>Lindsey to begin work on Request for Qualifications (RFQ) for an Owner's Project Manager (OPM).</p>	Lindsey

3.01	09/17/18	Discussion regarding ensuring the Board stays within the \$800,000.00 allocated funds with the estimated 57% reimbursement rate for the Feasibility Study process.	Record
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**II NEW BUSINESS ITEMS**

No.	Date	Issues	Action
5.01	11/19/18	The SMS Building Committee Meeting Minutes No. 004 dated 10/27/18 were reviewed. Kevin Scanlon motioned to approve the minutes. Lindsey Albernaz seconded the motion. All SMSBC members present voted unanimously in favor.	Record
5.02	11/19/18	Victor Machado asked who will make the decision whether the future building project will be grades 5 – 8 or grades 6 – 8. He also asked if the School Committee should be involved due to the future project's effects on academics and the overall district. The SMSBC will review future study and make recommendations to the School Committee.  It was noted that a facility assessment, which is evaluating all three elementary schools, is due in February 2019. It will indicate the condition of the three schools as well as make recommendations. Findings in the assessment may help dictate the direction of the future middle school. A pros and cons assessment should be made after the facility assessment and the SMS study are completed.	Record  Record
5.03	11/19/18	The SMSBC reviewed the proposed timeline. The following changes were suggested: <ul style="list-style-type: none"> <li>• Submit for the Central Registry Advertisement on or before Thursday, December 13th by 4:00 pm so that the advertisement is posted on Wednesday, December 19th.</li> <li>• Week of January 17th: Sub-Committee meets to rate and evaluate respondents.</li> <li>• Tuesday, January 23rd (5pm – 8pm – Tentative): Candidates interviewed by the SMSBC. (Snow day: Wednesday, January 24th.</li> </ul>	Record

**ATTACHMENTS:**

1. Narrative of Selection Process
2. Feasibility Study Timeline – 11.19.2018 Building Committee Meeting (Dates to be Updated)

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*

NAME: STEVEN MEDEIROS

DATE: 2/21/2019



**TOWN OF SOMERSET  
MEETING NOTICE**

Received & Posted \_\_\_\_\_ Time: \_\_\_\_\_  
\_\_\_\_\_  
Town Clerk

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, December 10, 2018 at 5:00 pm

**Location of Meeting:** School Committee Room in North Elementary School  
580 Whetstone Hill Road, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Recording Secretary, December 6, 2018  
**Clerk/Board Member posting notice & date**

Cancelled or postponed to:  
(circle cancelled/postponed)

Clerk/Board Member cancelling/postponing meeting

**AGENDA / LIST OF TOPICS**

- I. Interviews for Owner's Project Manager
- II. Review and Approval of Minutes
- III. Other Items

**MSBA: Massachusetts School Building Authority**



## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 006

<b>Project:</b>	Somerset Middle School Building
<b>Project Location:</b>	1141 Brayton Avenue, Somerset, MA
<b>Meeting Location:</b>	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA (Conference Room)
<b>Time:</b>	6:00 pm – 6:15 pm
<b>Date:</b>	12/10/2018
<b>Next Meeting:</b>	01/23/2019
<b>Upcoming Meetings:</b>	To be Determined

## ATTENDEES

Name	Title	Telephone	E-Mail
<b>Jeff Schoonover</b>	Superintendent of Schools	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
<b>Lindsey Albernaz</b> (OPM Selection Sub-Committee)	Dir. of Business & Fin., SPS	508-324-3100 (212)	<a href="mailto:albernazl@sbregional.org">albernazl@sbregional.org</a>
<b>Victor Machado</b>	School Committee Member	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
<b>Michael Botelho</b>	School Committee Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
<b>Pauline Camara</b> (Absent)	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
<b>Edward Callahan</b>	Vice Principal @ SMS	508-324-3140	<a href="mailto:Edward.Callahan@somersetschools.org">Edward.Callahan@somersetschools.org</a>
<b>Chris Godet</b>	Chair of Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
<b>Carlos Campos</b> (OPM Selection Sub-Committee)	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
<b>Kathleen Byers</b>	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
<b>Cassey Monte</b> (Absent)	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
<b>Steven Medeiros</b> (OPM Selection Sub-Committee)	Registered Architect	508-496-5027	<a href="mailto:smedeiros@civitects.com">smedeiros@civitects.com</a>
<b>Robert Lima</b> (OPM Selection Sub-Committee)	Superintendent of Somerset Water Dept., Retired	508-672-1272 774-713-0480	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
<b>Kevin Scanlon</b> (OPM Selection Sub-Committee)	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Kscanlon819@yahoo.com">Kscanlon819@yahoo.com</a>
<b>Holly McNamara</b> (Non-Voting) – Absent	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
<b>Steve Moniz</b> (Non-Voting) - Absent	Board of Selectmen, Member	508-646-2800	<a href="mailto:smoniz@town.somerset.ma.us">smoniz@town.somerset.ma.us</a>
<b>Richard Brown</b> (Non-voting) - Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

I OLD BUSINESS ITEMS			
No.	Date	Issues	Action
1.07	12/10/18	The members of the OPM Selection Sub-Committee provided their comments regarding the RFS for an OPM. Suggested changes were made and distributed to the SMSBC for their review prior to the meeting. Members in attendance were asked if there were any additional comments or suggested changes. There were no comments or suggested changes. Kevin Scanlon motioned to approve the proposed RFS. Robert Lima seconded the motion. SMSBC voted to unanimously approve the RSF for an OPM.	Record/ Close
	11/19/18	The SMSBC discussed potential candidates for the five member OPM Selection Sub-Committee for a vote. After discussion Victor Machado motioned to have the Sub-Committee Members be Lindsey Albernaz, Carlos Campos, Robert Lima, Kevin Scanlon and Steven Medeiros. Michael Botelho seconded the motion. All SMSBC voting members present voted unanimously in favor.	Record
		Lindsey Albernaz to discuss OPM Selection Sub-Committee at the School Committee Meeting tomorrow (11/20) night.	Lindsey
		Kevin Scanlon recommended that the OPM Selection Sub-Committee short list the applications received down to three candidates to be interviewed by the entire SMSBC.	Record
		Lindsey Albernaz to have a MSBA OPM Selection Panel Review conference call with Alison Jones (MSBA) on Monday, March 4 <sup>th</sup> .	Lindsey
	10/15/18	Group reviewed OPM and Architect selection process. Subcommittee to be discussed at the next meeting.	Record
	08/27/18	Work on the RFQ will pick up later; the focus at this time is the submission to the MSBC. This item will pick back up after the December MSBC meeting.	Record
	06/21/18	Lindsey to begin work on Request for Qualifications (RFQ) for an Owner's Project Manager (OPM).	Lindsey
3.01	09/17/18	Discussion regarding ensuring the Board stays within the \$800,000.00 allocated funds with the estimated 57% reimbursement rate for the Feasibility Study process.	Record
5.01	11/19/18	The SMS Building Committee Meeting Minutes No. 004 dated 10/27/18 were reviewed. Kevin Scanlon motioned to approve the minutes. Lindsey Albernaz seconded the motion. All SMSBC members present voted unanlously in favor.	Record
5.02	11/19/18	Victor Machado asked who will make the decision whether the future building project will be grades 5 – 8 or grades 6 – 8. He also asked if the School Committee should be involved due to the future project's effects on academics and the overall district. The SMSBC will review future study and make recommendations to the School Committee.	Record

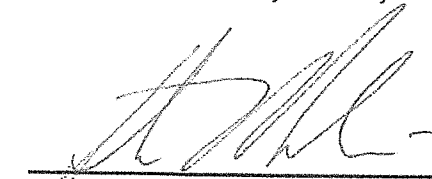
		It was noted that a facility assessment, which is evaluating all three elementary schools, is due in February 2019. It will indicate the condition of the three schools as well as make recommendations. Findings in the assessment may help dictate the direction of the future middle school. A pros and cons assessment should be made after the facility assessment and the SMS study are completed.	Record
5.03	11/19/18	The SMSBC reviewed the proposed timeline. The following changes were suggested: <ul style="list-style-type: none"> <li>• Submit for the Central Registry Advertisement on or before Thursday, December 13th by 4:00 pm so that the advertisement is posted on Wednesday, December 19th.</li> <li>• Week of January 17th: Sub-Committee meets to rate and evaluate respondents.</li> <li>• Tuesday, January 23rd (5pm – 8pm – Tentative): Candidates interviewed by the SMSBC. (Snow day: Wednesday, January 24th.</li> </ul>	Record


II NEW BUSINESS ITEMS			
No.	Date	Issues	Action
6.01	12/10/18	There was no new business.	

**ATTACHMENTS:**

1. No attachments.

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*

  
 \_\_\_\_\_  
 Steven Medeiros  
 \_\_\_\_\_  
 2/19/2019  
 \_\_\_\_\_  
 Date





# TOWN OF SOMERSET MEETING NOTICE

Received & Posted _____	Time: _____
Town Clerk	

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, January 23, 2019 at 6:30 pm

**Location of Meeting:** School Committee Room in North Elementary School  
580 Whetstone Hill Road, Somerset, MA  
 (physical address including room # or name if applicable)

Robin Vaccaro, Recording Secretary, March 12, 2019  
**Clerk/Board Member posting notice & date**

Cancelled or **postponed to:**  
(circle cancelled/postponed)

Clerk/Board Member cancelling/postponing meeting

## AGENDA / LIST OF TOPICS

- I. Owner's Project Manager Contract
- II. Owner's Project Manager Timeline
- III. Owner's Project Manager Update – Compass Group Architecture (CGA)
- IV. Approval of Minutes of December 10, 2018 and January 23, 2019
- V. Other Items

**MSBA: Massachusetts School Building Authority**

## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 007

Project:	Somerset Middle School Building
Project Location:	1141 Brayton Avenue, Somerset, MA
Meeting Location:	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA
Time:	5:00 pm – 8:15 pm
Date:	01/23/2019
Next Meeting:	<b>03/18/2019</b>
Upcoming Meetings:	<b>To be Determined</b>

## ATTENDEES

Name	Title	Telephone	E-Mail
Jeff Schoonover	Superintendent of Schools	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
Lindsey Albernaz (OPM Selection Sub-Committee)	Dir. of Business & Fin., SPS	508-324-3100 (212)	<a href="mailto:albernazl@sbregional.org">albernazl@sbregional.org</a>
Victor Machado	School Committee Member	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
Michael Botelho	School Committee Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
Pauline Camara	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
Edward Callahan (Absent)	Vice Principal @ SMS	508-324-3140	<a href="mailto:Edward.Callahan@somersetschools.org">Edward.Callahan@somersetschools.org</a>
Chris Godet (Absent)	Chair of Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
Carlos Campos (OPM Selection Sub-Committee)	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
Kathleen Byers (Absent)	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
Cassey Monte	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
Steven Medeiros (OPM Selection Sub-Committee)	Registered Architect	508-496-5027	<a href="mailto:smediros@civitects.com">smediros@civitects.com</a>
Robert Lima (OPM Selection Sub-Committee)	Superintendent of Somerset Water Dept., Retired	508-672-1272 774-713-0480	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
Kevin Scanton (OPM Selection Sub-Committee)	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanton819@yahoo.com">Krscanton819@yahoo.com</a>
Holly McNamara (Non-Voting) - Absent	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
Steve Moniz (Non-Voting) - Absent	Board of Selectmen, Member	508-646-2800	<a href="mailto:smoniz@town.somerset.ma.us">smoniz@town.somerset.ma.us</a>
Richard Brown (Non-voting) - Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

I OLD BUSINESS ITEMS			
No.	Date	Issues	Action
3.01	09/17/18	Discussion regarding ensuring the Board stays within the \$800,000.00 allocated funds with the estimated 57% reimbursement rate for the Feasibility Study process.	Record
5.02	11/19/18	Victor Machado asked who will make the decision whether the future building project will be grades 5 – 8 or grades 6 – 8. He also asked if the School Committee should be involved due to the future project's effects on academics and the overall district. The SMSBC will review future study and make recommendations to the School Committee.	Record
		It was noted that a facility assessment, which is evaluating all three elementary schools, is due in February 2019. It will indicate the condition of the three schools as well as make recommendations. Findings in the assessment may help dictate the direction of the future middle school. A pros and cons assessment should be made after the facility assessment and the SMS study are completed.	Record
5.03	01/23/19	The sub-committee met on the morning of Wednesday, January 16 <sup>th</sup> to review scores provided by each member of the Committee. The top scores went to Colliers International, Hill International and CGA. Lindsey Albernaz contacted each candidate to notify them of the results and schedule interviews with the SMSBC.	Record/ Close
	11/19/18	The SMSBC reviewed the proposed timeline. The following changes were suggested: <ul style="list-style-type: none"> <li>• Submit for the Central Registry Advertisement on or before Thursday, December 13th by 4:00 pm so that the advertisement is posted on Wednesday, December 19th.</li> <li>• Week of January 17th: Sub-Committee meets to rate and evaluate respondents.</li> <li>• Tuesday, January 23rd (5pm – 8pm – Tentative): Candidates interviewed by the SMSBC. (Snow day: Wednesday, January 24th.</li> </ul>	Record

II NEW BUSINESS ITEMS			
No.	Date	Issues	Action
7.01	01/23/19	Meeting minutes from the interview in the order in which the interviews were held: <p>I. Colliers International (CI)</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Ken Guyette, MCPPPO (Project Director)</li> <li>• Charlie Roberts (Project Manager)</li> <li>• Dan Daisy, LEED AP (Construction Representative)</li> </ul> <p>1. One page hand-out and copy of the presentation was handed out to the Committee.</p>	Record

	<p>2. CI noted MSBA Experience and knowledge of MSBA Form 3011.</p> <p>A. CI noted that they have not had an MSBA project that has gone over budget.</p> <p>3. CI highlighted the following projects:</p> <p>A. West Bridgewater Middle/Senior High School</p> <ul style="list-style-type: none"> <li>• Renovation project with \$3,000,000 savings. CI noted that this project is very similar the upcoming Somerset Middle School Project.</li> </ul> <p>B. Colegrave Park Elementary School (Grades K-7)</p> <ul style="list-style-type: none"> <li>• CI had a big issue with the General Contractor.</li> </ul> <p>C. West Springfield, MA High School</p> <ul style="list-style-type: none"> <li>• CI noted that this was a model school and that the project finishes early.</li> </ul> <p>D. Cape Cod Tech. New School Building</p> <ul style="list-style-type: none"> <li>• Twelve Districts were involved.</li> <li>• \$128,000,000 project.</li> </ul> <p>4. CI stressed focus on project cost, quality and schedule.</p> <p>5. CI aggressively went after contractors to bid the projects.</p> <p>6. CI noted that there needs to be a health balance between the Contractor and the General Contractor. CI stressed that they are not contractors or architects acting as OPMs. They are only OPMs.</p> <p>7. SMSBC Questions and responses:</p> <p>A. <i>With your group's current ongoing projects, how will you make the Somerset Middle School project a priority and accommodate our timeline?</i>  CI Response: CI considers themselves an extension of the SMSBC and will be available for the project.</p> <p>B. <i>How will your group manage the Committee's desire to look at dual track work, specific to a Grade 5-Grade 8 Middle School project and also Grade 6 - Grade 8 Middle School project?</i>  CI Response: CI will work with the Committee to determine the best method of going forward.</p> <p>C. <i>How does your group approach issues with Change Orders, whether brought on by unexpected project issues or through specific Owner requests?</i>  CI Response: CI recommended creating a change order committee at the start of construction. CI has documents that contain strong language which, they feel, will mitigate change orders.</p>	
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	<p><i>D. What type of assistance do you provide to the Committee to move projects along and obtain Town support?</i>  CI Response: CI noted that social media is a very important tool. Listening sessions are key and need to include students, parents and staff/administration.</p> <p><i>E. How does CI handle people leaving the company?</i>  CI Response: CI has several locations. CI handles the project as a team and not as individuals.</p> <p><i>F. You mentioned that there was a big issue with the contractor for the Colegrave Park Elementary School. What was the issue and how was it resolved?</i>  CI Response: The GC mismanaged the project schedule. To resolve the issue CI stayed on top of the issue until it was resolved.</p> <p>II. Hill International (HI)</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Paul Kalous, AIA, MCPPO (Project Director)</li> <li>• Inger Hamre-Foley, MCPPO (Project Manager)</li> <li>• Jim Devol, LEED AP (Public Outreach Lead)</li> </ul> <ol style="list-style-type: none"> <li>1. One page hand-out and copy of the presentation was handed out to the Committee.</li> <li>2. HI indicated that the projects that they have worked on in the past have come in on-time, on schedule and under budget.</li> <li>3. HI stressed the need to: <ol style="list-style-type: none"> <li>A. set up a web site for the project with links and a FAQ section. They indicated that it is important to defuse "the noise"</li> <li>B. Use local media</li> <li>C. Use public forums – Touch points throughout the project; also an MSBA requirement.</li> <li>D. Use Community Surveys</li> </ol> </li> <li>4. Public Charter: <ol style="list-style-type: none"> <li>A. Checklist</li> <li>B. Benchmarks</li> </ol> </li> <li>5. MSBA Form 3011</li> </ol>	<p>Record</p>
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	<p>6. SMSBC Questions and responses:</p> <p>A. <i>With your group's current ongoing projects, how will you make the Somerset Middle School project a priority and accommodate our timeline?</i>  HI Response: HI indicated that although they have other projects on the boards they will work closely with the SMSBC on the project.</p> <p>B. <i>How will your group manage the Committee's desire to look at dual track work, specific to a Grade 5-Grade 8 Middle School project and also Grade 6 - Grade 8 Middle School project?</i>  HI Response:  1. Education and Programming: <ul style="list-style-type: none"> <li>• Gather as much information as possible to develop an education plan.</li> <li>• Community support was critical.</li> <li>• HI will review current challenges and opportunities.</li> <li>• Design options overview.</li> <li>• Final option comparison.</li> </ul> </p> <p>C. <i>How does your group approach issues with Change Orders, whether brought on by unexpected project issues or through specific Owner requests?</i>  HI Response: HI stressed that a good set of documents need to go out. HI will facilitate negotiations between architect and GC.</p> <p>D. <i>What type of assistance do you provide to the Committee to move projects along and obtain Town support?</i>  HI Response: HI indicated that they responded to this question in their presentation. (See above.)</p> <p>E. <i>How does HI handle people leaving the company?</i>  HI Response: HI does not anticipate change in the team in the near future.</p> <p>III. CGA Project Management</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Dan Tavares, AIA, LEED AP, MCPPO, CDT (Project Director)</li> <li>• Andrew DiGiammo, AIA, MCPPO, Licensed Contractor (Project Manager)</li> <li>• Marybeth Carney, Professional Engineer, MCPPO (Assistant Project Manager)</li> <li>• Bill Friar, Licenced Construction Supervisor (Project Representative)</li> </ul>	Record
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		<ol style="list-style-type: none"> <li>1. Bound document was distributed to the Committee which include a copy of the presentation and samples of past reporting documents which include School Building Committee (SBC) Agenda, OPM Report to the SBC, Meeting Minutes from SBC, Construction Cost Estimate (CCE) Summary, CCE Comparison Spreadsheet, Proprietary Approval Form, Total Project Budget, Comp. Project Schedule and Testimonials.</li> <li>2. CGA will also have Daedalus on the team. They will be able to tap into the Daedalus' resources when needed for the project.</li> <li>3. CGA has worked on the Somerset-Berkley Regional High School Project and is familiar with the Town.</li> <li>4. Management Process:             <ol style="list-style-type: none"> <li>A. Selection of an Architect.</li> </ol> </li> <li>5. Committee Participation:             <ol style="list-style-type: none"> <li>A. Need to reach out to the Community.</li> <li>B. Social media is important.</li> <li>C. CGA was very successful in using social media in the Freetown police Station Project.</li> </ol> </li> <li>6. SMSBC Questions and responses:             <ol style="list-style-type: none"> <li>A. <i>With you group's current ongoing projects, how will you make the Somerset Middle School project a priority and accommodate our timeline?</i> CGA Response: CGA indicated that they are a local company (in Fall River) and will always be available and accessible.</li> <li>B. <i>How will your group manage the Committee's desire to look at dual track work, specific to a Grade 5-Grade 8 Middle School project and also Grade 6 - Grade 8 Middle School project?</i> CGA Response: CGA will work closely with the group to determine the pros and cons of both options.</li> <li>C. <i>How does your group approach issues with Change Orders, whether brought on by unexpected project issues or through specific Owner requests?</i> CGA Response: CGA will review all change orders and provide feedback to the committee on each change order.</li> </ol> </li> </ol>	
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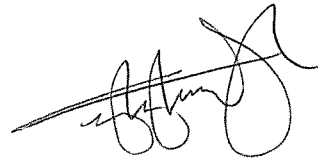
		<p><i>D. What type of assistance do you provide to the Committee to move projects along and obtain Town support?</i> CGA Response: CGA will constantly participate in dialogue. Building a web-site and placing information on the website to provide facts in response to any challenges.</p> <p><i>E. What is CGA's experience with Construction Manager (CM) at Risk Projects?</i> CGA Response: CGA does not have direct experience with CM at Risk; however, are very knowledgeable in the alternate process (MGL 149A) of moving the project forward.</p> <p><i>F. What are MSBA incentives that can be sought after?</i> CGA Response: CGA indicated that MSBA incentives have decreased over time.</p>	
7.02	01/23/19	<p>Post Interview Discussion and Vote:</p> <ol style="list-style-type: none"> <li>1. Carlos Campos indicated that he worked closely with CGA on the Somerset-Berkley Regional High School Project. CGA was on site all the time.</li> <li>2. Victor Botelho noted that all candidates had experience in existing and new construction.</li> <li>3. Lindsey Albernaz noted that CGA references were outstanding.</li> <li>4. Based on the group discussion, Jeff Schoonover noted that the order appeared to be CGA first, CI second and HI third. Victor Machado asked the Committee if there were any members who disagreed with the order and had any comments. No Committee Members had any disagreement with the order.</li> <li>5. Robert Lima motioned for the order be CGA first, CI second and HI third based on discussions and presentations. Victor seconded the motion. The Committee voted unanimously on the order.</li> <li>6. Kevin Scanlon motioned to have CGA be the OPM for the project. Pauline Camara seconded the motion. The Committee voted unanimously in favor of CGA becoming the OPM for the project.</li> <li>7. Victor Machado motioned to start negotiations with CGA. Robert Lima seconded the motion. The Committee voted unanimously to start negotiations with CGA.</li> </ol>	Record

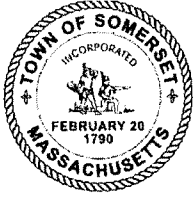
7.03	01/23/19	<p>Make-up of the Committee:</p> <ul style="list-style-type: none"> <li>School Board Committee Member Victor Machado noted that Michael Botelho, who is currently a School Board Committee Member, will not be running for School Board Committee in the future election; however, should stay on if he would like to. Lindsey Albernaz indicated that a minimum of one School Board Committee Member is required to be on the SMSBC. Michael indicated that he had no issue with staying on the Committee and would like to stay on as part of the SMSBC.</li> </ul>	Record
7.04	01/23/19	Lindsey Albernaz noted that the next MSBA meeting will be held on March 4 <sup>th</sup> , 2019.	Record

**ATTACHMENTS:**

- No attachments.

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*





# TOWN OF SOMERSET MEETING NOTICE

Received & Posted _____	Time: _____
_____	
Town Clerk	

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, March 18, 2019 at 6:30 pm

**Location of Meeting:** School Committee Room in North Elementary School  
580 Whetstone Hill Road, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Recording Secretary, March 13, 2019  
**Clerk/Board Member posting notice & date**

Cancelled or postponed to:  
(circle cancelled/postponed)

Clerk/Board Member cancelling/postponing meeting

## AGENDA / LIST OF TOPICS

- I. Owner's Project Manager Update – CGA Project Management, LLC
- II. Approval of Minutes of November 19, 2018, December 10, 2018 and January 23, 2019
- III. Building Committee Chair Recommendations
- IV. Other Items

**MSBA: Massachusetts School Building Authority**

**SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES****MEETING NO. 008**

Project:	Somerset Middle School Building
Project Location:	1141 Brayton Avenue, Somerset, MA
Meeting Location:	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA
Time:	6:30 pm – 7:45 pm
Date:	03/18/2019
Next Meeting:	<b>04/22/2019</b>
Upcoming Meetings:	<b>06/03/2019 – SMSBC and/or Sub-Committee Meet (Tentative)</b> <b>06/24/2019 - SMSBC and/or Sub-Committee Meet (Tentative)</b>

**SMSBC ATTENDEES**

Name	Title	Telephone	E-Mail
Jeff Schoonover	Superintendent of Schools/ SMSBC Vice Chairman	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
Lindsey Albernaz	Dir. of Business & Fin., SPS/ SMSBC Chairwoman	508-324-3100 (212)	<a href="mailto:albernazl@sbregional.org">albernazl@sbregional.org</a>
Victor Machado	School Committee Member	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
Michael Botelho	Community Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
Pauline Camara	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
Edward Callahan (Absent)	Vice Principal @ SMS	508-324-3140	<a href="mailto:Edward.Callahan@somersetschools.org">Edward.Callahan@somersetschools.org</a>
Chris Godet	Chair of Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
Carlos Campos	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
Kathleen Byers	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
Cassey Monte (Absent)	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
Steven Medeiros	Registered Architect	508-496-5027	<a href="mailto:smediros@civitects.com">smediros@civitects.com</a>
Robert Lima	Superintendent of Somerset Water Dept., Retired	508-672-1272 774-713-0480	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
Kevin Scanlon	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanlon819@yahoo.com">Krscanlon819@yahoo.com</a>
Holly McNamara (Non-Voting) - Absent	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
Steve Moniz (Non-Voting) - Absent	Board of Selectmen, Member	508-646-2800	<a href="mailto:smoniz@town.somerset.ma.us">smoniz@town.somerset.ma.us</a>
Richard Brown (Non-voting) - Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

**OPM ATTENDEES**

Name	Title	Telephone	E-Mail
<b>Daniel Tavares</b>	Project Director	617.835.8528	<a href="mailto:dtavares@compassgrouparch.com">dtavares@compassgrouparch.com</a>
<b>Andrew DiGiammo</b>	Project Manager	Not Provided	<a href="mailto:adigiammo@compassgrouparch.com">adigiammo@compassgrouparch.com</a>
<b>Shannon Khoury</b>	Not Provided	Not Provided	<a href="mailto:skhoury@compassgrouparch.com">skhoury@compassgrouparch.com</a>

I OLD BUSINESS ITEMS			
No.	Date	Issues	Action
3.01	03/18/19	<b>57.48% reimbursement rate is last year's rate. CGA indicated that the MSBA reimbursement rate is constantly changing and will be locked in during the conclusion of the Certified Study.</b>	Record
	09/17/18	Discussion regarding ensuring the Board stays within the \$800,000.00 allocated funds with the estimated 57% reimbursement rate for the Feasibility Study process.	Record
5.02	03/18/19	<b>Victor Machado noted that the Somerset School Committee may be looking to re-district prior to any future work at the SMS. Ongoing.</b>	Record
	11/19/18	Victor Machado asked who will make the decision whether the future building project will be grades 5 – 8 or grades 6 – 8. He also asked if the School Committee should be involved due to the future project's effects on academics and the overall district. The SMSBC will review future study and make recommendations to the School Committee.	Record
		It was noted that a facility assessment, which is evaluating all three elementary schools, is due in February 2019. It will indicate the condition of the three schools as well as make recommendations. Findings in the assessment may help dictate the direction of the future middle school. A pros and cons assessment should be made after the facility assessment and the SMS study are completed.	Record
7.01	03/18/19	Close	Close
	01/23/19	<p>Meeting minutes from the interview in the order in which the interviews were held:</p> <p>I. Colliers International (CI)</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Ken Guyette, MCPPO (Project Director)</li> <li>• Charlie Roberts (Project Manager)</li> <li>• Dan Daisy, LEED AP (Construction Representative)</li> </ul> <p>1. One page hand-out and copy of the presentation was handed out to the Committee.</p> <p>2. CI noted MSBA Experience and knowledge of MSBA Form 3011.</p> <p>A. CI noted that they have not had an MSBA project that has gone over budget.</p> <p>3. CI highlighted the following projects:</p> <p>A. West Bridgewater Middle/Senior High School</p> <ul style="list-style-type: none"> <li>• Renovation project with \$3,000,000 savings. CI noted that this project is very similar the upcoming Somerset Middle School Project.</li> </ul> <p>B. Colegrave Park Elementary School (Grades K-7)</p> <ul style="list-style-type: none"> <li>• CI had a big issue with the General Contractor.</li> </ul>	Record

	<p>C. West Springfield, MA High School</p> <ul style="list-style-type: none"> <li>• CI noted that this was a model school and that the project finishes early.</li> </ul> <p>D. Cape Cod Tech. New School Building</p> <ul style="list-style-type: none"> <li>• Twelve Districts were involved.</li> <li>• \$128,000,000 project.</li> </ul> <p>4. CI stressed focus on project cost, quality and schedule.</p> <p>5. CI aggressively went after contractors to bid the projects.</p> <p>6. CI noted that there needs to be a health balance between the Contractor and the General Contractor. CI stressed that they are not contractors or architects acting as OPMs. They are only OPMs.</p> <p>7. SMSBC Questions and responses:</p> <p>A. <i>With your group's current ongoing projects, how will you make the Somerset Middle School project a priority and accommodate our timeline?</i>  CI Response: CI considers themselves an extension of the SMSBC and will be available for the project.</p> <p>B. <i>How will your group manage the Committee's desire to look at dual track work, specific to a Grade 5-Grade 8 Middle School project and also Grade 6 – Grade 8 Middle School project?</i>  CI Response: CI will work with the Committee to determine the best method of going forward.</p> <p>C. <i>How does your group approach issues with Change Orders, whether brought on by unexpected project issues or through specific Owner requests?</i>  CI Response: CI recommended creating a change order committee at the start of construction. CI has documents that contain strong language which, they feel, will mitigate change orders.</p> <p>D. <i>What type of assistance do you provide to the Committee to move projects along and obtain Town support?</i>  CI Response: CI noted that social media is a very important tool. Listening sessions are key and need to include students, parents and staff/administration.</p> <p>E. <i>How does CI handle people leaving the company?</i>  CI Response: CI has several locations. CI handles the project as a team and not as individuals.</p> <p>F. <i>You mentioned that there was a big issue with the contractor for the Colegrave Park Elementary School. What was the issue and how was it resolved?</i>  CI Response: The GC mismanaged the project schedule. To resolve the issue CI stayed on top of the issue until it was resolved.</p>	
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	<p>II. Hill International (HI)</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Paul Kalous, AIA, MCPPO (Project Director)</li> <li>• Inger Hamre-Foley, MCPPO (Project Manager)</li> <li>• Jim Devol, LEED AP (Public Outreach Lead)</li> </ul> <ol style="list-style-type: none"> <li>1. One page hand-out and copy of the presentation was handed out to the Committee.</li> <li>2. HI indicated that the projects that they have worked on in the past have come in on-time, on schedule and under budget.</li> <li>3. HI stressed the need to: <ol style="list-style-type: none"> <li>A. set up a web site for the project with links and a FAQ section. They indicated that it is important to defuse "the noise"</li> <li>B. Use local media</li> <li>C. Use public forums – Touch points throughout the project; also an MSBA requirement.</li> <li>D. Use Community Surveys</li> </ol> </li> <li>4. Public Charter: <ol style="list-style-type: none"> <li>A. Checklist</li> <li>B. Benchmarks</li> </ol> </li> <li>5. MSBA Form 3011</li> <li>6. SMSBC Questions and responses: <ol style="list-style-type: none"> <li>A. <i>With your group's current ongoing projects, how will you make the Somerset Middle School project a priority and accommodate our timeline?</i>  HI Response: HI indicated that although they have other projects on the boards they will work closely with the SMSBC on the project.</li> <li>B. <i>How will your group manage the Committee's desire to look at dual track work, specific to a Grade 5-Grade 8 Middle School project and also Grade 6 – Grade 8 Middle School project?</i>  HI Response: <ol style="list-style-type: none"> <li>1. Education and Programming: <ul style="list-style-type: none"> <li>• Gather as much information as possible to develop an education plan.</li> <li>• Community support was critical.</li> <li>• HI will review current challenges and opportunities.</li> <li>• Design options overview.</li> <li>• Final option comparison.</li> </ul> </li> </ol> </li> </ol> </li> </ol>	Record
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	<p><i>C. How does your group approach issues with Change Orders, whether brought on by unexpected project issues or through specific Owner requests?</i>          HI Response: HI stressed that a good set of documents need to go out. HI will facilitate negotiations between architect and GC.</p> <p><i>D. What type of assistance do you provide to the Committee to move projects along and obtain Town support?</i>          HI Response: HI indicated that they responded to this question in their presentation. (See above.)</p> <p><i>E. How does HI handle people leaving the company?</i>          HI Response: HI does not anticipate change in the team in the near future.</p> <p>III. CGA Project Management</p> <p>Presenters:</p> <ul style="list-style-type: none"> <li>• Dan Tavares, AIA, LEED AP, MCPPO, CDT (Project Director)</li> <li>• Andrew DiGiammo, AIA, MCPPO, Licensed Contractor (Project Manager)</li> <li>• Marybeth Carney, Professional Engineer, MCPPO (Assistant Project Manager)</li> <li>• Bill Friar, Licenced Construction Supervisor (Project Representative)</li> </ul> <ol style="list-style-type: none"> <li>1. Bound document was distributed to the Committee which include a copy of the presentation and samples of past reporting documents which include School Building Committee (SBC) Agenda, OPM Report to the SBC, Meeting Minutes from SBC, Construction Cost Estimate (CCE) Summary, CCE Comparison Spreadsheet, Proprietary Approval Form, Total Project Budget, Comp. Project Schedule and Testimonials.</li> <li>2. CGA will also have Daedalus on the team. They will be able to tap into the Daedalus' resources when needed for the project.</li> <li>3. CGA has worked on the Somerset-Berkley Regional High School Project and is familiar with the Town.</li> <li>4. Management Process:             <ol style="list-style-type: none"> <li>A. Selection of an Architect.</li> </ol> </li> <li>5. Committee Participation:             <ol style="list-style-type: none"> <li>A. Need to reach out to the Community.</li> <li>B. Social media is important.</li> <li>C. CGA was very successful in using social media in the Freetown police Station Project.</li> </ol> </li> </ol>	<p>Record</p>
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7.02	03/18/19	<b>CGA updated the SMSBC regarding the OPM Contract. The contract has been signed by all parties and sent to MSBA. Close</b>	Close
	01/23/19	<p>Post Interview Discussion and Vote:</p> <ol style="list-style-type: none"> <li>1. Carlos Campos indicated that he worked closely with CGA on the Somerset-Berkley Regional High School Project. CGA was on site all the time.</li> <li>2. Victor Botelho noted that all candidates had experience in existing and new construction.</li> <li>3. Lindsey Albernaz noted that CGA references were outstanding.</li> </ol>	Record

		<p>4. Based on the group discussion, Jeff Schoonover noted that the order appeared to be CGA first, CI second and HI third. Victor Machado asked the Committee if there were any members who disagreed with the order and had any comments. No Committee Members had any disagreement with the order.</p> <p>5. Robert Lima motioned for the order be CGA first, CI second and HI third based on discussions and presentations. Victor seconded the motion. The Committee voted unanimously on the order.</p> <p>6. Kevin Scanlon motioned to have CGA be the OPM for the project. Pauline Camara seconded the motion. The Committee voted unanimously in favor of CGA becoming the OPM for the project.</p> <p>7. Victor Machado motioned to start negotiations with CGA. Robert Lima seconded the motion. The Committee voted unanimously to start negotiations with CGA.</p>	
7.03	03/18/19	<b>Lindsey Albernaz will need to step down as the SMSBC Chairwoman. She has taken another position in another district and will no longer be on the Committee. Victor Machado expressed interest in being the Future Chairman. Lindsey Albernaz motioned to change Chairperson as of June 1<sup>st</sup>. Robert Lima seconded the motion. The SMSBC unanimously voted to approve.</b>	Record
	01/23/19	<p>Make-up of the Committee:</p> <ul style="list-style-type: none"> <li>School Board Committee Member Victor Machado noted that Michael Botelho, who is currently a School Board Committee Member, will not be running for School Board Committee in the future election; however, should stay on if he would like to. Lindsey Albernaz indicated that a minimum of one School Board Committee Member is required to be on the SMSBC. Michael indicated that he had no issue with staying on the Committee and would like to stay on as part of the SMSBC.</li> </ul>	Record
7.04	03/18/19	<b>CGA provided a brief update to the SMSBC regarding the MSBA OPM Panel Review Conference Call Meeting with the MSBA held on March 4<sup>th</sup>. The MSBA updated CGA on regulations including the required RFS procedures for designer selection.</b>	Record
	01/23/19	Lindsey Albernaz noted that the next MSBA meeting will be held on March 4 <sup>th</sup> , 2019.	Record

II NEW BUSINESS ITEMS			
No.	Date	Issues	Action
8.01	03/18/19	CGA discussed difference between eligible and ineligible reimbursement. Kevin Scanlon asked which spaces are not reimbursable. CGA indicated that some examples are auditoriums, temporary classrooms, moving expenses and legal fees to name a few. The handout provided by CGA noted that the MSBA, in its sole discretion, will review if a district is eligible for incentive points. Also, statute dictates that no district shall be eligible for more than 18 Incentive Points in total, and that no one category of Incentive Points can be more than 6 points.	Record
8.02	03/18/19	<p><b>Designer Selection (Request for Designer Services - RFS)</b></p> <p>CGA has a draft copy of the Request for Designer Services for the SMSBC review and comment.</p> <p>At the April 22<sup>nd</sup> meeting the SMSBC should vote and approve final Request for Designer Services (RFS).</p> <p>CGA can reach out to the architects prior to the RFS being advertised/published to let them know that the RFS will be coming out but cannot reach out after the RFS is advertised/published.</p> <p>The group has determined that Wednesday, May 8<sup>th</sup> at 3pm is when the Designer walk-thru should take place. Pauline Camara noted that after school would be best since the school will be empty.</p> <p>CGA indicated that the MSBA Designer Selection Panel will handle selection of the designers, but there will need to be three (3) representatives from the SMSBC in attendance.</p> <p>CGA recommends one SMSBC member, the Superintendent and the CFO, but who needs to attend is not set in stone. The SMSBC does not need to come to a decision as to who will be representatives before the RFS is issued, but will need to identify the representatives after the RFS is issued. One representative will need to have interest in the review of the design process. Jeff Schoonover will reach out to Richard Brown and ask if he would like to be the third person on the committee. He will update the group at the next meeting.</p> <p>Important: CGA indicated that the SMSBC should not rank the designer (preferred to weak RFS). Instead they should just provide feedback.</p> <p>Interviews do not need to take place if there is a large gap between firms who are qualified to not qualified, but if interviews do take place they usually last 45 minutes per interview.</p> <p>At this time the dates are as follows, but could possibly be pushed up to early June:</p> <ul style="list-style-type: none"> <li>• June 18<sup>th</sup> – Review and rank proposals</li> <li>• July 9<sup>th</sup> – Interviews if needed.</li> </ul>	<p>CGA</p> <p>SMSBC</p> <p>CGA</p> <p>All</p> <p>Record</p> <p>Jeff S.</p> <p>Record</p> <p>Record</p> <p>Record</p>

8.03	03/18/19	<p>Approval of the Meeting Minutes</p> <ol style="list-style-type: none"> <li>1. Victor Machado motioned to approve SMSBC Meeting Minutes No. 005. Robert Lima seconded the motion. The SMSBC unanimously voted to approve the minutes.</li> <li>2. Victor Machado motioned to approve SMSBC Meeting Minutes No. 006. Pauline Camara seconded the motion. The SMSBC unanimously voted to approve the minutes.</li> <li>3. Victor Machado motioned to approve SMSBC Meeting Minutes No. 007. Michael Botelho seconded the motion. The SMSBC unanimously voted to approve the minutes.</li> </ol>	Record/ Close
8.04	03/18/19	CGA will look into recently constructed schools for the SMSBC to visit prior to the release of the RFS.	CGA

**ATTACHMENTS:**

1. CGA Project Management – OPM Progress Report Dated 03.18.2019

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*





**TOWN OF SOMERSET  
MEETING NOTICE**

Received & Posted _____ Time: _____
_____ Town Clerk

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, April 22, 2019 at 6:00 pm

**Location of Meeting:** School Committee Room in North Elementary School  
580 Whetstone Hill Road, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Recording Secretary, April 19, 2019  
**Clerk/Board Member posting notice & date**

Cancelled or postponed to:  
(circle cancelled/postponed)

Clerk/Board Member cancelling/postponing meeting

**AGENDA / LIST OF TOPICS**

- I. Vote on Request for Service Bid for Design Services
- II. Timeline of Designer Selection Process
- III. Other Items

**MSBA: Massachusetts School Building Authority**

## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 009

<b>Project:</b>	Somerset Middle School Building
<b>Project Location:</b>	1141 Brayton Avenue, Somerset, MA
<b>Meeting Location:</b>	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA
<b>Time:</b>	6:30 pm – 7:45 pm
<b>Date:</b>	04/22/2019
<b>Next Meeting:</b>	<b>06/24/2019</b>
<b>Upcoming Meetings:</b>	<b>T.B.D.</b>

## SMSBC ATTENDEES

Name	Title	Telephone	E-Mail
Jeff Schoonover	Superintendent of Schools/ SMSBC Vice Chairman	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
Lindsey Albernaz	Dir. of Business & Fin., SPS/ SMSBC Chairwoman	508-324-3100 (212)	<a href="mailto:albernazl@sbregional.org">albernazl@sbregional.org</a>
Victor Machado (via Conf. Call)	School Committee Member	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
Michael Botelho	Community Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
Pauline Camara	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
Edward Callahan (Absent)	Vice Principal @ SMS	508-324-3140	<a href="mailto:Edward.Callahan@somersetschools.org">Edward.Callahan@somersetschools.org</a>
Chris Godet (Abstain from vote)	Chair of Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
Carlos Campos	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
Kathleen Byers	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
Cassey Monte (Absent)	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
Steven Medeiros	Registered Architect	508-496-5027	<a href="mailto:smedeiros@civitects.com">smedeiros@civitects.com</a>
Robert Lima	Superintendent of Somerset Water Dept., Retired	508-672-1272 774-713-0480	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
Kevin Scanlon	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krcscanlon819@yahoo.com">Krcscanlon819@yahoo.com</a>
Holly McNamara (Non-Voting) – Absent	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
Steve Moniz (Non-Voting) - Absent	Board of Selectmen, Member	508-646-2800	<a href="mailto:smoniz@town.somerset.ma.us">smoniz@town.somerset.ma.us</a>
Richard Brown (Non-voting) - Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

## OPM ATTENDEES

Name	Title	Telephone	E-Mail
Daniel Tavares	Project Director	617.835.8528	<a href="mailto:dtavares@compassgrouparch.com">dtavares@compassgrouparch.com</a>
Andrew DiGiammo Absent	Project Manager	774.244.1101	<a href="mailto:adigiammo@compassgrouparch.com">adigiammo@compassgrouparch.com</a>
Shannon Khoury	Assistant Project Manager	508.989.3630	<a href="mailto:skhoury@compassgrouparch.com">skhoury@compassgrouparch.com</a>
Marybeth Carney	Assistant Project Manager	508.284.2792	<a href="mailto:mcarney@compassgrouparch.com">mcarney@compassgrouparch.com</a>



I OLD BUSINESS ITEMS			
No.	Date	Issues	Action
3.01	04/22/19	D. Tavares noted that the reimbursement rate is the locked in rate right now, but there is a potential adjustment when the option is selected in the future.	Record
	03/18/19	56.89% (corrected in 04/22/2019 meeting) reimbursement rate is last year's rate. CGA indicated that the MSBA reimbursement rate is constantly changing and will be locked in during the conclusion of the Certified Study.	Record
	09/17/18	Discussion regarding ensuring the Board stays within the \$800,000.00 allocated funds with the estimated 57% reimbursement rate for the Feasibility Study process.	Record
5.02	03/18/19	Victor Machado noted that the Somerset School Committee may be looking to re-district prior to any future work at the SMS. <b>Ongoing.</b>	Record
	11/19/18	Victor Machado asked who will make the decision whether the future building project will be grades 5 – 8 or grades 6 – 8. He also asked if the School Committee should be involved due to the future project's effects on academics and the overall district. The SMSBC will review future study and make recommendations to the School Committee.	Record
		It was noted that a facility assessment, which is evaluating all three elementary schools, is due in February 2019. It will indicate the condition of the three schools as well as make recommendations. Findings in the assessment may help dictate the direction of the future middle school. A pros and cons assessment should be made after the facility assessment and the SMS study are completed.	Record
7.03	04/22/19	Chris Godet let the committee know that he will be resigning from advisory and finance committee.	Record
	03/18/19	Lindsey Albernaz will need to step down as the SMSBC Chairwoman. She has taken another position in another district and will no longer be on the Committee. Victor Machado expressed interest in being the Future Chairman. Lindsey Albernaz motioned to change Chairperson as of June 1 <sup>st</sup> . Robert Lima seconded the motion. The SMSBC unanimously voted to approve.	Record
	01/23/19	Make-up of the Committee: <ul style="list-style-type: none"> <li>School Board Committee Member Victor Machado noted that Michael Botelho, who is currently a School Board Committee Member, will not be running for School Board Committee in the future election; however, should stay on if he would like to. Lindsey Albernaz indicated that a minimum of one School Board Committee Member is required to be on the SMSBC. Michael indicated that he had no issue with staying on the Committee and would like to stay on as part of the SMSBC.</li> </ul>	Record

7.04	04/22/19	<b>CGA provided a brief update to the SMSBC regarding MSBA Model School Program, Designer RFS and the Designer Selection Process. CGA also provided a look-ahead project schedule.</b>	Record
	03/18/19	CGA provided a brief update to the SMSBC regarding the MSBA OPM Panel Review Conference Call Meeting with the MSBA held on March 4 <sup>th</sup> . The MSBA updated CGA on regulations including the required RFS procedures for designer selection.	Record
	01/23/19	Lindsey Albernaz noted that the next MSBA meeting will be held on March 4 <sup>th</sup> , 2019.	Record
8.01	04/22/19	Ongoing.	Record
	03/18/19	CGA discussed difference between eligible and ineligible reimbursement. Kevin Scanlon asked which spaces are not reimbursable. CGA indicated that some examples are auditoriums, temporary classrooms, moving expenses and legal fees to name a few. The handout provided by CGA noted that the MSBA, in its sole discretion, will review if a district is eligible for incentive points. Also, statute dictates that no district shall be eligible for more than 18 Incentive Points in total, and that no one category of Incentive Points can be more than 6 points.	Record
8.02	04/22/19	<b>Victor Machado motioned to approve the RFS. Kevin Scanlon seconded the motion. The SMSBC unanimously voted to approve the RFS.</b>  <b>Submissions are due on May 23<sup>rd</sup>.</b>	Record
	03/18/19	Designer Selection (Request for Designer Services - RFS)  CGA has a draft copy of the Request for Designer Services for the SMSBC review and comment.  At the April 22 <sup>nd</sup> meeting the SMSBC should vote and approve final Request for Designer Services (RFS).  CGA can reach out to the architects prior to the RFS being advertised/published to let them know that the RFS will be coming out but cannot reach out after the RFS is advertised/published.  The group has determined that Wednesday, May 8 <sup>th</sup> at 3pm is when the Designer walk-thru should take place. Pauline Camara noted that after school would be best since the school will be empty.  CGA indicated that the MSBA Designer Selection Panel will handle selection of the designers, but there will need to be three (3) representatives from the SMSBC in attendance.	Record CGA SMSBC CGA All Record Jeff S.

		CGA recommends one SMSBC member, the Superintendent and the CFO, but who needs to attend is not set in stone. The SMSBC does not need to come to a decision as to who will be representatives before the RFS is issued, but will need to identify the representatives after the RFS is issued. One representative will need to have interest in the review of the design process. Jeff Schoonover will reach out to Richard Brown and ask if he would like to be the third person on the committee. He will update the group at the next meeting.	Record
		Important: CGA indicated that the SMSBC should not rank the designer (preferred to weak RFS). Instead they should just provide feedback.	Record
		Interviews <b>might not (corrected in 04/22/2019 meeting)</b> take place if there is a large gap between firms who are qualified to not qualified, but if interviews do take place they usually last 45 minutes per interview.	Record
		At this time the dates are as follows, but could possibly be pushed up to early June: <ul style="list-style-type: none"> <li>• June 18<sup>th</sup> – Review and rank proposals</li> <li>• July 9<sup>th</sup> – Interviews if needed.</li> </ul>	
8.04	04/22/19	<b>Dan Tavares stated that given the timeline the committee can only visit schools after the selection of an architect. Jeff Schoonover to send to the committee what CGA sent as recent schools to look at.</b>	Record
		<b>Model School Update: Daniel Tavares stated that 2 of 3 are still viable. Kevin Scanlon asked if it is possible to get pdfs of the plans for the model schools. CGA to look into model schools.</b>	CGA
	03/18/19	CGA will look into recently constructed schools for the SMSBC to visit prior to the release of the RFS.	CGA

II NEW BUSINESS ITEMS			
No.	Date	Issues	Action
9.01	04/22/19	<b>Approval of the Meeting Minutes</b>  1. Victor Machado motioned to approve SMSBC Meeting Minutes No. 008. Kevin Scanlon seconded the motion. The SMSBC unanimously voted to approve the minutes with discussed changes.	Record/ Close
9.02	04/22/19	Kevin Scanlon motioned to adjourn the meeting. Chris Godet seconded the motion. All approved.	Record/ Close

**ATTACHMENTS:**

1. CGA Project Management – OPM Progress Report Dated 04.22.2019

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*





# TOWN OF SOMERSET MEETING NOTICE

Received & Posted _____	Time: _____
_____	
Town Clerk	

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, June 24, 2019 at 6:00 pm

**Location of Meeting:** School Committee Room in North Elementary School  
580 Whetstone Hill Road, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Recording Secretary, June 19, 2019  
**Clerk/Board Member posting notice & date**

Cancelled or **postponed to:**  
(circle cancelled/postponed)

Clerk/Board Member cancelling/postponing meeting

## AGENDA / LIST OF TOPICS

- I. MSBA Designer Selection Committee Update
- II. Owner's Project Manager Report
- III. Approval of Minutes of April 22, 2019
- IV. Other Items

**MSBA: Massachusetts School Building Authority**

## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 010

<b>Project:</b>	Somerset Middle School Building
<b>Project Location:</b>	1141 Brayton Avenue, Somerset, MA
<b>Meeting Location:</b>	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA
<b>Time:</b>	6:00 pm – 6:45 pm
<b>Date:</b>	06/24/2019
<b>Next Meeting:</b>	<b>07/15/2019</b>
<b>Upcoming Meetings:</b>	<b>T.B.D.</b>

## SMSBC ATTENDEES

Name	Title	Telephone	E-Mail
Jeff Schoonover	Superintendent of Schools/ SMSBC Vice Chairman	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
Victor Machado	SMSBC Chairman	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
Michael Botelho	Community Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
Pauline Camara	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
Edward Callahan (Absent)	Vice Principal @ SMS	508-324-3140	<a href="mailto:Edward.Callahan@somersetschools.org">Edward.Callahan@somersetschools.org</a>
Chris Godet	School Committee Member	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
Carlos Campos	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
Kathleen Byers (Absent)	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
Cassey Monte (Absent)	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
Steven Medeiros	Registered Architect	508-496-5027	<a href="mailto:smediros@civitects.com">smediros@civitects.com</a>
Robert Lima	Superintendent of Somerset Water Dept., Retired	508-672-1272 774-713-0480	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
Kevin Scanlon	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanlon819@yahoo.com">Krscanlon819@yahoo.com</a>
Nick Raffa (Abstain from Vote)	Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:littlepaisan@aol.com">littlepaisan@aol.com</a>
Holly McNamara (Non-Voting)	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
Steve Moniz (Non-Voting)	Board of Selectmen, Member	508-646-2800	<a href="mailto:smoniz@town.somerset.ma.us">smoniz@town.somerset.ma.us</a>
Richard Brown (Non-voting) - Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

## OPM ATTENDEES

Name	Title	Telephone	E-Mail
Daniel Tavares	Project Director	617.835.8528	<a href="mailto:dtavares@compassgrouparch.com">dtavares@compassgrouparch.com</a>
Andrew DiGiammo (Absent)	Project Manager	774.244.1101	<a href="mailto:adigiammo@compassgrouparch.com">adigiammo@compassgrouparch.com</a>
Shannon Khoury	Assistant Project Manager	508.989.3630	<a href="mailto:skhoury@compassgrouparch.com">skhoury@compassgrouparch.com</a>
Marybeth Carney (Absent)	Assistant Project Manager	508.284.2792	<a href="mailto:mcarney@compassgrouparch.com">mcarney@compassgrouparch.com</a>

Committee Guest: Michael McDonald, School Committee Member

<b>I OLD BUSINESS ITEMS</b>			
<b>No.</b>	<b>Date</b>	<b>Issues</b>	<b>Action</b>
3.01	06/24/19	<b>No change/Not discussed.</b>	<b>Record</b>
	04/22/19	D. Tavares noted that the reimbursement rate is the locked in rate right now, but there is a potential adjustment when the option is selected in the future.	Record
	03/18/19	56.89% (corrected in 04/22/2019 meeting) reimbursement rate is last year's rate. CGA indicated that the MSBA reimbursement rate is constantly changing and will be locked in during the conclusion of the Certified Study.	Record
	09/17/18	Discussion regarding ensuring the Board stays within the \$800,000.00 allocated funds with the estimated 57% reimbursement rate for the Feasibility Study process.	Record
5.02	04/22/19-06/24/19	<b>No change/Not discussed.</b>	Record
	03/18/19	Victor Machado noted that the Somerset School Committee may be looking to re-district prior to any future work at the SMS. Ongoing.	Record
	11/19/18	Victor Machado asked who will make the decision whether the future building project will be grades 5 – 8 or grades 6 – 8. He also asked if the School Committee should be involved due to the future project's effects on academics and the overall district. The SMSBC will review future study and make recommendations to the School Committee.	Record
		It was noted that a facility assessment, which is evaluating all three elementary schools, is due in February 2019. It will indicate the condition of the three schools as well as make recommendations. Findings in the assessment may help dictate the direction of the future middle school. A pros and cons assessment should be made after the facility assessment and the SMS study are completed.	Record
7.03	06/24/19	<b>Nick Raffa will be joining the committee as the advisory and finance committee member. On April 26<sup>th</sup> Lindsey Albernaz sent an updated organization chart to the MSBA for review and approval. On May 23<sup>rd</sup> the MSBA reviewed and approved the organization chart which included Nick Raffa's information.</b>	<b>Record</b>
		<b>Victor Machado entertained a motion to formally remove L. Albernaz from the SMSBC. Michael Botelho moved the motion forward. R. Lima seconded the motion. The SMSBC unanimously approved the motion.</b>	<b>Record</b>
		<b>With L. Albernaz being removed from the SMSBC a member from the district with MCPPO certification is required to be part of the committee. After discussion, it was determined that Richard Brown be the member with the MCPPO certification. Chris Godet motioned to have R. Brown be the SMSBC member with MCPPO Certificate. Pauline Camara seconded the motion. The motion was unanimously approved by the committee. The organization chart will be updated and resubmitted to the MSBA for review and approval.</b>	<b>Record</b>

	04/22/19	Chris Godet let the committee know that he will be resigning from advisory and finance committee.	Record
	03/18/19	Lindsey Albernaz will need to step down as the SMSBC Chairwoman. She has taken another position in another district and will no longer be on the Committee. Victor Machado expressed interest in being the Future Chairman. Lindsey Albernaz motioned to change Chairperson as of June 1 <sup>st</sup> . Robert Lima seconded the motion. The SMSBC unanimously voted to approve.	Record
	01/23/19	Make-up of the Committee: <ul style="list-style-type: none"> <li>School Board Committee Member Victor Machado noted that Michael Botelho, who is currently a School Board Committee Member, will not be running for School Board Committee in the future election; however, should stay on if he would like to. Lindsey Albernaz indicated that a minimum of one School Board Committee Member is required to be on the SMSBC. Michael indicated that he had no issue with staying on the Committee and would like to stay on as part of the SMSBC.</li> </ul>	
7.04	06/24/19	<p><b>CGA provided a brief update to the SMSBC regarding MSBA model school program and the designer selection including both meeting and Studio G letter. CGA also provided a look-ahead project schedule and update on budget.</b></p> <p><b>Regarding the MSBA model school program refer to item 8.04.</b></p> <p><b>On June 18 the MSBA and SMSBC panel members reviewed the submitted RFQs and voted. Ai3 had the most votes with 34, Studio G had the second most with 14 votes. D&amp;W, Kaestle Boos and LaVallee Brensinger Architects received 10 votes each, but the panel determined that for record D&amp;W would be considered the firm to receive the third most votes. The panel agreed to interview with Ai3 and Studio G.</b></p> <p><b>Dan Tavares let the Committee know that the MSBA sent out a letter this afternoon that they received from Studio G stating that they will respectfully not interview. (They noted that this would be the third interview in six months and noted that they would keep submitting for future projects.) D. Tavares noted that he did reach out to the MSBA regarding what will be required next and did get feedback that the MSBA will reach out to him and let him know what the next step will be which may require the SMSBC panel members to attend another meeting to officially vote Ai3 as the selected designer to begin negotiations with.</b></p> <p><b>Chris Godet asked who will be sitting at the table to negotiate with the architect. Dan Tavares noted that the standard MSBA contract will be used will not be changed very much, if at all. The meeting will be to ensure that all the scope of services will be provided in the fee. Jeff Schoonover and Victor Machado volunteered to sit in on the negotiations.</b></p> <p><b>Refer to new business regarding schedule and budget.</b></p>	<p>Record</p> <p>Record</p> <p>Record</p> <p>Record</p>

	04/22/19	CGA provided a brief update to the SMSBC regarding MSBA Model School Program, Designer RFS and the Designer Selection Process. CGA also provided a look-ahead project schedule.	Record
	03/18/19	CGA provided a brief update to the SMSBC regarding the MSBA OPM Panel Review Conference Call Meeting with the MSBA held on March 4 <sup>th</sup> . The MSBA updated CGA on regulations including the required RFS procedures for designer selection.	Record
	01/23/19	Lindsey Albernaz noted that the next MSBA meeting will be held on March 4 <sup>th</sup> , 2019.	Record
8.01	04/22/19	Ongoing.	Record
	03/18/19	CGA discussed difference between eligible and ineligible reimbursement. Kevin Scanlon asked which spaces are not reimbursable. CGA indicated that some examples are auditoriums, temporary classrooms, moving expenses and legal fees to name a few. The handout provided by CGA noted that the MSBA, in its sole discretion, will review if a district is eligible for incentive points. Also, statute dictates that no district shall be eligible for more than 18 Incentive Points in total, and that no one category of Incentive Points can be more than 6 points.	Record
8.02	06/23/19	<b>Daniel Tavares noted that forty-one (41) requests were made of the RFS with twenty-six (26) being from design firms. There were six (6) respondents to the RFS. Close.</b>	Record/ Close
	04/22/19	Victor Machado motioned to approve the RFS. Kevin Scanlon seconded the motion. The SMSBC unanimously voted to approve the RFS.	Record
		Submissions are due on May 23 <sup>rd</sup> .	Record
	03/18/19	Designer Selection (Request for Designer Services - RFS)	CGA
		CGA has a draft copy of the Request for Designer Services for the SMSBC review and comment.	SMSBC
		At the April 22 <sup>nd</sup> meeting the SMSBC should vote and approve final Request for Designer Services [RFS].	CGA
		CGA can reach out to the architects prior to the RFS being advertised/published to let them know that the RFS will be coming out but cannot reach out after the RFS is advertised/published.	All
		The group has determined that Wednesday, May 8 <sup>th</sup> at 3pm is when the Designer walk-thru should take place. Pauline Camara noted that after school would be best since the school will be empty.	Record
		CGA indicated that the MSBA Designer Selection Panel will handle selection of the designers, but there will need to be three (3) representatives from the SMSBC in attendance.	Jeff S.



		CGA recommends one SMSBC member, the Superintendent and the CFO, but who needs to attend is not set in stone. The SMSBC does not need to come to a decision as to who will be representatives before the RFS is issued, but will need to identify the representatives after the RFS is issued. One representative will need to have interest in the review of the design process. Jeff Schoonover will reach out to Richard Brown and ask if he would like to be the third person on the committee. He will update the group at the next meeting.	Record
		Important: CGA indicated that the SMSBC should not rank the designer (preferred to weak RFS). Instead they should just provide feedback.	Record
		Interviews might not (corrected in 04/22/2019 meeting) take place if there is a large gap between firms who are qualified to not qualified, but if interviews do take place they usually last 45 minutes per interview.	Record
		At this time the dates are as follows, but could possibly be pushed up to early June: <ul style="list-style-type: none"> <li>• June 18<sup>th</sup> – Review and rank proposals</li> <li>• July 9<sup>th</sup> – Interviews if needed.</li> </ul>	
8.04	06/24/19	<b>Dan Tavares stated that CGA has investigated whether they can receive pdfs of the model school plans. The MSBA confirmed that they cannot share plans at this time (prior to completing the feasibility study to determine if new construction is the preferred option and the SMSBC decides to explore the model school program).</b>	Ongoing
	04/22/19	Dan Tavares stated that given the timeline the committee can only visit schools after the selection of an architect. Jeff Schoonover to send to the committee what CGA sent as recent schools to look at.	Record
		Model School Update: Daniel Tavares stated that 2 of 3 are still viable. Kevin Scanlon asked if it is possible to get pdfs of the plans for the model schools. CGA to look into model schools.	CGA
	03/18/19	CGA will investigate recently constructed schools for the SMSBC to visit prior to the release of the RFS.	CGA

## II NEW BUSINESS ITEMS

No.	Date	Issues	Action
10.01	06/24/19	<b>Schedule</b>  Chris Godet asked if schedule will change due to MSBA panel vote and Studio G's declining to be interviewed. Dan Tavares stated that no not due to MSBA panel decision to or not to interview; however, D. Tavares noted that when Ai3 is on board their outlined schedule may improve.	

		Jeff Schoonover asked if the town vote can be moved up to special town meeting in December, 2020 rather than May, 2021. D. Tavares noted that this could be the target date in the schedule for the designer to meet so that they can be ready to provide information to voters.	
10.02	06/24/19	<b>Budget</b> Daniel Tavares noted that the overall budget has not changed; however, the environmental/site fee (separate from the A/E fee on the project budget break down) will be rolled into the architect's fee since they will have these consultants on their design team.	
10.03	06/24/19	<b>Approval of the Meeting Minutes</b>  1. Victor Machado entertained a motioned to approve SMSBC Meeting Minutes No. 009. Pauline Camara moved the motion forward. Robert Lima seconded the motion. The SMSBC unanimously voted to approve the minutes.	Record/ Close
10.04	06/24/19	Chris Godet motioned to adjourn the meeting. Michael Botelho seconded the motion. All approved to end the meeting at 6:45pm via a roll call vote.	Record/ Close

**ATTACHMENTS:**

1. CGA Project Management – OPM Progress Report Dated 06.24.2019

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*





# TOWN OF SOMERSET MEETING NOTICE

Received & Posted _____	Time: _____
_____	
Town Clerk	

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, July 15, 2019 at 6:00 pm

**Location of Meeting:** School Committee Room in North Elementary School  
580 Whetstone Hill Road, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Recording Secretary, July 10, 2019  
**Clerk/Board Member posting notice & date**

Cancelled or postponed to:  
(circle cancelled/postponed)

Clerk/Board Member cancelling/postponing meeting

## AGENDA / LIST OF TOPICS

- I. Result of the MSBA Designer Panel
- II. Award Designer Contract
- III. OPM Report
- IV. Review and Approve Designer Fee Proposal
- V. Ai3 Presentation
- VI. Approval of June 24, 2019 Minutes
- VII. Dates for Upcoming Meetings
- VIII. Other Items

**MSBA: Massachusetts School Building Authority**  
**OPM: Owner's Project Manager**

## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 011

<b>Project:</b>	Somerset Middle School Building
<b>Project Location:</b>	1141 Brayton Avenue, Somerset, MA
<b>Meeting Location:</b>	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA
<b>Time:</b>	6:10 pm – 7:45 pm
<b>Date:</b>	07/15/2019
<b>Next Meeting:</b>	<b>09/16/2019</b>
<b>Upcoming Meetings:</b>	<b>T.B.D.</b>

## SMSBC ATTENDEES

Name	Title	Telephone	E-Mail
Jeff Schoonover	Superintendent of Schools/ SMSBC Vice Chairman	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
Victor Machado (via Conf. Call)	SMSBC Chairman	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
Michael Botelho (Absent)	Community Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
Pauline Camara	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
Edward Callahan	Vice Principal @ SMS	508-324-3140	<a href="mailto:Edward.Callahan@somersetschools.org">Edward.Callahan@somersetschools.org</a>
Chris Godet	School Committee Member	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
Carlos Campos	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
Kathleen Byers	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
Cassey Monte	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
Steven Medeiros (Absent)	Registered Architect	508-496-5027	<a href="mailto:smedeiros@civitects.com">smedeiros@civitects.com</a>
Robert Lima (Absent)	Superintendent of Somerset Water Dept., Retired	508-672-1272 774-713-0480	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
Kevin Scanlon	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanlon819@yahoo.com">Krscanlon819@yahoo.com</a>
Nick Raffa	Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:littlepisan@aol.com">littlepisan@aol.com</a>
Holly McNamara (Non-Voting) (Absent)	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
Steve Moniz (Non-Voting)	Board of Selectmen, Member	508-646-2800	<a href="mailto:smoniz@town.somerset.ma.us">smoniz@town.somerset.ma.us</a>
Richard Brown (Non-voting) - Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

## OPM ATTENDEES

Name	Title	Telephone	E-Mail
Daniel Tavares	Project Director	617.835.8528	<a href="mailto:dtavares@compassgrouparch.com">dtavares@compassgrouparch.com</a>
Andrew DiGiammo (Absent)	Project Manager	774.244.1101	<a href="mailto:adigiammo@compassgrouparch.com">adigiammo@compassgrouparch.com</a>
Shannon Khoury (Absent)	Assistant Project Manager	508.989.3630	<a href="mailto:skhoury@compassgrouparch.com">skhoury@compassgrouparch.com</a>
Marybeth Carney (Absent)	Assistant Project Manager	508.284.2792	<a href="mailto:mcarney@compassgrouparch.com">mcarney@compassgrouparch.com</a>

I OLD BUSINESS ITEMS			
No.	Date	Issues	Action
3.01	07/15/19	Mr. Schoonover asked what the reimbursement rate is. Mr. Tavares stated 56.89%. Mr. Godet asked when the Town will receive reimbursement. Mr. Tavares stated that the initial reimbursement should be sent after the Committee approved the contract today.	Record
	06/24/19	No change/Not discussed.	Record
	04/22/19	D. Tavares noted that the reimbursement rate is the locked in rate right now, but there is a potential adjustment when the option is selected in the future.	Record
	03/18/19	56.89% (corrected in 04/22/2019 meeting) reimbursement rate is last year's rate. CGA indicated that the MSBA reimbursement rate is constantly changing and will be locked in during the conclusion of the Certified Study.	Record
	09/17/18	Discussion regarding ensuring the Board stays within the \$800,000.00 allocated funds with the estimated 57% reimbursement rate for the Feasibility Study process.	Record
5.02	04/22/19-07/15/19	No change/Not discussed.	Record
	03/18/19	Victor Machado noted that the Somerset School Committee may be looking to re-district prior to any future work at the SMS. Ongoing.	Record
	11/19/18	Victor Machado asked who will make the decision whether the future building project will be grades 5 – 8 or grades 6 – 8. He also asked if the School Committee should be involved due to the future project's effects on academics and the overall district. The SMSBC will review future study and make recommendations to the School Committee.	Record
		It was noted that a facility assessment, which is evaluating all three elementary schools, is due in February 2019. It will indicate the condition of the three schools as well as make recommendations. Findings in the assessment may help dictate the direction of the future middle school. A pros and cons assessment should be made after the facility assessment and the SMS study are completed.	Record
7.03	07/15/19	No discussion.	Record
	06/24/19	Nick Raffa will be joining the committee as the advisory and finance committee member. On April 26 <sup>th</sup> Lindsey Albernaz sent an updated organization chart to the MSBA for review and approval. On May 23 <sup>rd</sup> the MSBA reviewed and approved the organization chart which included Nick Raffa's information.  Victor Machado entertained a motion to formally remove L. Albernaz from the SMSBC. Michael Botelho moved the motion forward. R. Lima seconded the motion. The SMSBC unanimously approved the motion.	Record  Record

		With L. Albernaz being removed from the SMSBC a member from the district with MCPPO certification is required to be part of the committee. After discussion, it was determined that Richard Brown be the member with the MCPPO certification. Chris Godet motioned to have R. Brown be the SMSBC member with MCPPO Certificate. Pauline Camara seconded the motion. The motion was unanimously approved by the committee. The organization chart will be updated and resubmitted to the MSBA for review and approval.	Record
	04/22/19	Chris Godet let the committee know that he will be resigning from advisory and finance committee.	Record
	03/18/19	Lindsey Albernaz will need to step down as the SMSBC Chairwoman. She has taken another position in another district and will no longer be on the Committee. Victor Machado expressed interest in being the Future Chairman. Lindsey Albernaz motioned to change Chairperson as of June 1 <sup>st</sup> . Robert Lima seconded the motion. The SMSBC unanimously voted to approve.	Record
	01/23/19	Make-up of the Committee: <ul style="list-style-type: none"> <li>School Board Committee Member Victor Machado noted that Michael Botelho, who is currently a School Board Committee Member, will not be running for School Board Committee in the future election; however, should stay on if he would like to. Lindsey Albernaz indicated that a minimum of one School Board Committee Member is required to be on the SMSBC. Michael indicated that he had no issue with staying on the Committee and would like to stay on as part of the SMSBC.</li> </ul>	
7.04	07/15/19	<b>Results of the MSBA Designer Selection Panel: JS gave the results of the MSBA Designer Panel. Ai3 was unanimously voted the Project Architect.</b>	Close
		<b>Award Designer Contract: Motion to accept Ai3 as the design contract by Mr. Machado, 2<sup>nd</sup> by Mr. Godet. Vote to approve was unanimous.</b>	Record
		<b>Mr. Scanlon motioned to have the designer begin their work. Mr. Godet seconded the motion. The Committee unanimously approved.</b>	Record
	06/24/19	CGA provided a brief update to the SMSBC regarding MSBA model school program and the designer selection including both meeting and Studio G letter. CGA also provided a look-ahead project schedule and update on budget.	Record
		Regarding the MSBA model school program refer to item 8.04.	
		On June 18 the MSBA and SMSBC panel members reviewed the submitted RFQs and voted. Ai3 had the most votes with 34, Studio G had the second most with 14 votes. D&W, Kaestle Boos and LaVallee Brensinger Architects received 10 votes each, but the panel determined that for record D&W would be considered the firm to receive the third most votes. The panel agreed to interview with Ai3 and Studio G.	Record

		Dan Tavares let the Committee know that the MSBA sent out a letter this afternoon that they received from Studio G stating that they will respectfully not interview. (They noted that this would be the third interview in six months and noted that they would keep submitting for future projects.) D. Tavares noted that he did reach out to the MSBA regarding what will be required next and did get feedback that the MSBA will reach out to him and let him know what the next step will be which may require the SMSBC panel members to attend another meeting to officially vote Ai3 as the selected designer to begin negotiations with.	Record
		Chris Godet asked who will be sitting at the table to negotiate with the architect. Dan Tavares noted that the standard MSBA contract will be used will not be changed very much, if at all. The meeting will be to ensure that all the scope of services will be provided in the fee. Jeff Schoonover and Victor Machado volunteered to sit in on the negotiations.	Record
		Refer to new business regarding schedule and budget.	
	04/22/19	CGA provided a brief update to the SMSBC regarding MSBA Model School Program, Designer RFS and the Designer Selection Process. CGA also provided a look-ahead project schedule.	Record
	03/18/19	CGA provided a brief update to the SMSBC regarding the MSBA OPM Panel Review Conference Call Meeting with the MSBA held on March 4 <sup>th</sup> . The MSBA updated CGA on regulations including the required RFS procedures for designer selection.	Record
	01/23/19	Lindsey Albernaz noted that the next MSBA meeting will be held on March 4 <sup>th</sup> , 2019.	Record
8.01	04/22/19	Ongoing.	Record
	03/18/19	CGA discussed difference between eligible and ineligible reimbursement. Kevin Scanlon asked which spaces are not reimbursable. CGA indicated that some examples are auditoriums, temporary classrooms, moving expenses and legal fees to name a few. The handout provided by CGA noted that the MSBA, in its sole discretion, will review if a district is eligible for incentive points. Also, statute dictates that no district shall be eligible for more than 18 Incentive Points in total, and that no one category of Incentive Points can be more than 6 points.	Record
8.04	07/15/19	<b>Dan Tavares suggested that the Committee take time to visit other schools with similar program.</b>	Ongoing
	06/24/19	Dan Tavares stated that CGA has investigated whether they can receive pdfs of the model school plans. The MSBA confirmed that they cannot share plans at this time (prior to completing the feasibility study to determine if new construction is the preferred option and the SMSBC decides to explore the model school program).	Ongoing
	04/22/19	Dan Tavares stated that given the timeline the committee can only visit schools after the selection of an architect. Jeff Schoonover to send to the committee what CGA sent as recent schools to look at.	Record

	03/18/19	Model School Update: Daniel Tavares stated that 2 of 3 are still viable. Kevin Scanlon asked if it is possible to get pdfs of the plans for the model schools. CGA to look into model schools.  CGA will investigate recently constructed schools for the SMSBC to visit prior to the release of the RFS.	CGA  CGA
10.01	07/15/19	Schedule  <b>Mr. Tavares reviewed the 'Look Ahead' schedule [see OPM Progress Report]. He stated, we are entering Module 3: Feasibility Study consisting of preliminary design program and preferred schematic report.</b>	Record
	06/24/19	Chris Godet asked if schedule will change due to MSBA panel vote and Studio G's declining to be interviewed. Dan Tavares stated that no not due to MSBA panel decision to or not to interview; however, D. Tavares noted that when Ai3 is on board their outlined schedule may improve.  Jeff Schoonover asked if the town vote can be moved up to special town meeting in December, 2020 rather than May, 2021. D. Tavares noted that this could be the target date in the schedule for the designer to meet so that they can be ready to provide information to voters.	Record  Record
10.02	07/15/19	Budget  <b>OPM Report: Mr. Tavares gave a brief overview of the approval of the designer proposal. Contract negotiations have started since then. The contract is set by the MSBA for basic services, the proposed fee is \$600,000, which leaves \$50,000.00 for contingency.</b>	Close
	06/24/19	Daniel Tavares noted that the overall budget has not changed; however, the environmental/site fee (separate from the A/E fee on the project budget break down) will be rolled into the architect's fee since they will have these consultants on their design team.	Record

II NEW BUSINESS ITEMS			
No.	Date	Issues	Action
11.1	07/15/19	<b>Ai3 Introductions and Update</b>  <b>Mr. Troy Randell was introduced. He thanked the committee for the opportunity and reviewed the MSBA project service scopes consisting of assessment testing, education design process and program design. The education narrative (vision) will also be developed in the next 3 to 4 months. Two or three options will be developed) preferred schematic design. One of the options will be decided by the building committee, followed by a final schematic design. The final design will require a vote by the town.</b>  <b>Ai3 presentation by Mr. Randell. (See slide show presentation.) Discussion followed.</b>	Record  Record



11.2	07/15/19	<p><b>Future Meetings</b></p> <p>Mr. Tavares asked if another night might be better than Monday's. Discussion followed.</p> <p>Next Building Committee Meeting possible date is Monday, August 12, 2019 at 6:00 followed by Monday, September 16, 2019 at 6:00pm.</p> <p>Looking for a 'working group' to meet once a week (Superintendent, Principal, Facilities, Building Committee Chair and could have town representative). Mr. Tavares prefers morning meeting.</p> <p>Mr. Tavares, Mr. Randell, Mr. Schoonover, Dr. Camara will discuss building tour dates tomorrow morning.</p>	<p>Record</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>
11.3	07/15/19	Approval of the June 24, 2019 meeting minutes were tabled until the next meeting.	Ongoing
11.4	07/15/19	Mr. Machado motioned to adjourn the meeting. Mr. Godet seconded the motion. Meeting adjourned at 7:41 pm.	Record/ Close

**ATTACHMENTS:**

1. CGA Project Management – OPM Progress Report Dated 07.15.2019
2. Ai3 Presentation

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*





# TOWN OF SOMERSET MEETING NOTICE

Received & Posted _____	Time: _____
Town Clerk	

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, September 16, 2019 at 4:30 pm

**Location of Meeting:** School Committee Room at North Elementary  
580 Whetstone Hill Road, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Recording Secretary, September 10, 2019  
**Clerk/Board Member posting notice & date**

Cancelled or postponed to:  
(circle cancelled/postponed)

**AMENDED 9-13-19 11:08 am**

Clerk/Board Member cancelling/postponing meeting

## AGENDA / LIST OF TOPICS

### Workgroup 4:30 pm

- I. Preliminary Design Schedule Review
- II. Assessment, Testing & Investigation Activities
- III. Educational Program Narrative, Programming & Visioning Process
- IV. Review of Elementary Schools
- V. Other Items

### Full Committee 6:00 pm

- VI. Somerset Middle School Building Committee Membership Updates
- VII. Tour of Barrington Middle School
- VIII. OPM Report
- IX. Architect Report
  - a. Preliminary Design Schedule Update
  - b. Existing Middle School Assessment, Testing and Investigations Update
  - c. Elementary Schools Enrollment Review
  - d. Existing Middle School Building Evaluation Update
- X. Approval of July 15, 2019 Minutes
- XI. Dates for Upcoming Meetings
- XII. Other Items

**MSBA: Massachusetts School Building Authority**  
**OPM: Owner's Project Manager**

## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 012

<b>Project:</b>	Somerset Middle School Building
<b>Project Location:</b>	1141 Brayton Avenue, Somerset, MA
<b>Meeting Location:</b>	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA
<b>Time:</b>	6:00 pm
<b>Date:</b>	09/16/2019
<b>Next Meeting:</b>	<b>10/07/2019</b>
<b>Upcoming Mtgs:</b>	<b>11/04/2019; 11/25/2019; 12/16/2019 (TBD: Joint Meeting Vote)</b>

## SMSBC ATTENDEES

Name	Title	Telephone	E-Mail
Jeff Schoonover	Superintendent of Schools/ SMSBC Vice Chairman	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
Victor Machado	School Committee Member/ SMSBC Chairman	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
Michael Botelho (Absent)	Community Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
Pauline Camara	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
Ronald Tarro (Absent)	Dir. of Business and Fin. for Somerset Public Schools	508-324-3100	<a href="mailto:Tarror@sbregional.org">Tarror@sbregional.org</a>
Chris Godet (Absent)	School Committee Member	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
Carlos Campos	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
Kathleen Byers	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
Cassey Monte (Absent)	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
Steven Medeiros	Registered Architect	508-496-5027	<a href="mailto:smediros@civitects.com">smediros@civitects.com</a>
Robert Lima	Superintendent of Somerset Water Dept., Retired	508-672-1272 774-713-0480	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
Kevin Scanlon	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanlon819@yahoo.com">Krscanlon819@yahoo.com</a>
Nick Raffa	Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:littlepaisan@aol.com">littlepaisan@aol.com</a>
Nicole Mello	Content Coordinator for Science & Tech. at SMS	508-324-3140	<a href="mailto:Nicole.mello@somersetschools.org">Nicole.mello@somersetschools.org</a>
Holly McNamara (Non-Voting) (Absent)	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
Richard Brown (Non-voting) - Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

## CGA PROJECT MANAGEMENT, LLC (OPM) ATTENDEES

Name	Title	Telephone	E-Mail
Daniel Tavares	Project Director	617.835.8528	<a href="mailto:dtavares@compassgrouparch.com">dtavares@compassgrouparch.com</a>
Andrew DiGiammo (Absent)	Project Manager	774.244.1101	<a href="mailto:adigiammo@compassgrouparch.com">adigiammo@compassgrouparch.com</a>
Shannon Khoury	Assistant Project Manager	508.989.3630	<a href="mailto:skhoury@compassgrouparch.com">skhoury@compassgrouparch.com</a>
Marybeth Carney	Assistant Project Manager	508.284.2792	<a href="mailto:mcarney@compassgrouparch.com">mcarney@compassgrouparch.com</a>

I OLD BUSINESS ITEMS			
No.	Date	Issues	Action
3.01	09/16/19	<b>Mr. Scanlon asked if there were any updates regarding the reimbursement rate. Mr. Tavares noted that the reimbursement rate has not changed. Town is reimbursed after payment is issued.</b>	Record
	07/15/19	Mr. Schoonover asked what the reimbursement rate is. Mr. Tavares stated 56.89%. Mr. Godet asked when the Town will receive reimbursement. Mr. Tavares stated that the initial reimbursement should be sent after the Committee approved the contract today.	Record
	06/24/19	No change/Not discussed.	Record
	04/22/19	D. Tavares noted that the reimbursement rate is the locked in rate right now, but there is a potential adjustment when the option is selected in the future.	Record
	03/18/19	56.89% (corrected in 04/22/2019 meeting) reimbursement rate is last year's rate. CGA indicated that the MSBA reimbursement rate is constantly changing and will be locked in during the conclusion of the Certified Study.	Record
	09/17/18	Discussion regarding ensuring the Board stays within the \$800,000.00 allocated funds with the estimated 57% reimbursement rate for the Feasibility Study process.	Record
5.02	04/22/19-07/15/19	No change/Not discussed.	Record
	03/18/19	Victor Machado noted that the Somerset School Committee may be looking to re-district prior to any future work at the SMS. Ongoing.	Record
	11/19/18	Victor Machado asked who will make the decision whether the future building project will be grades 5 – 8 or grades 6 – 8. He also asked if the School Committee should be involved due to the future project's effects on academics and the overall district. The SMSBC will review future study and make recommendations to the School Committee.	Record
		It was noted that a facility assessment, which is evaluating all three elementary schools, is due in February 2019. It will indicate the condition of the three schools as well as make recommendations. Findings in the assessment may help dictate the direction of the future middle school. A pros and cons assessment should be made after the facility assessment and the SMS study are completed.	Record
7.03	09/18/19	<b>Victor Machado introduced Nicole Mello, Content Coordinator for Science and Technology at the Somerset Middle School, to the Committee and noted to the Committee that the Somerset School Department has hired Mr. Ronald Tarro to the position of Director of Business and Finance for Somerset Public Schools formally occupied by Mrs. Lindsey Albernaz . Victor Machado noted that Edward Callahan will no longer be part of the committee. Victor Machado motioned to have Nicole Mello and Ronald Tarro be voting members of the committee and acknowledge Edward Callahan will no longer be part of the committee moving forward. Robert Lima seconded. The committee unanimously voted to approve.</b>	Record/ Close

	07/15/19	No discussion.	Record
	06/24/19	Nick Raffa will be joining the committee as the advisory and finance committee member. On April 26 <sup>th</sup> Lindsey Albernaz sent an updated organization chart to the MSBA for review and approval. On May 23 <sup>rd</sup> the MSBA reviewed and approved the organization chart which included Nick Raffa's information.	Record
		Victor Machado entertained a motion to formally remove L. Albernaz from the SMSBC. Michael Botelho moved the motion forward. R. Lima seconded the motion. The SMSBC unanimously approved the motion.	Record
		With L. Albernaz being removed from the SMSBC a member from the district with MCPPO certification is required to be part of the committee. After discussion, it was determined that Richard Brown be the member with the MCPPO certification. Chris Godet motioned to have R. Brown be the SMSBC member with MCPPO Certificate. Pauline Camara seconded the motion. The motion was unanimously approved by the committee. The organization chart will be updated and resubmitted to the MSBA for review and approval.	Record
	04/22/19	Chris Godet let the committee know that he will be resigning from advisory and finance committee.	Record
	03/18/19	Lindsey Albernaz will need to step down as the SMSBC Chairwoman. She has taken another position in another district and will no longer be on the Committee. Victor Machado expressed interest in being the Future Chairman. Lindsey Albernaz motioned to change Chairperson as of June 1 <sup>st</sup> . Robert Lima seconded the motion. The SMSBC unanimously voted to approve.	Record
	01/23/19	Make-up of the Committee: <ul style="list-style-type: none"> <li>School Board Committee Member Victor Machado noted that Michael Botelho, who is currently a School Board Committee Member, will not be running for School Board Committee in the future election; however, should stay on if he would like to. Lindsey Albernaz indicated that a minimum of one School Board Committee Member is required to be on the SMSBC. Michael indicated that he had no issue with staying on the Committee and would like to stay on as part of the SMSBC.</li> </ul>	
8.01	04/22/19	Ongoing.	Record
	03/18/19	CGA discussed difference between eligible and ineligible reimbursement. Kevin Scanlon asked which spaces are not reimbursable. CGA indicated that some examples are auditoriums, temporary classrooms, moving expenses and legal fees to name a few. The handout provided by CGA noted that the MSBA, in its sole discretion, will review if a district is eligible for incentive points. Also, statute dictates that no district shall be eligible for more than 18 Incentive Points in total, and that no one category of Incentive Points can be more than 6 points.	Record

8.04	09/16/19	CGA has scheduled a walk-thru of the recently constructed Barrington Middle School (261 Middle Highway, Barrington, RI) for Thursday, September 19, 2019 at 4:00pm. Mr. Tavares noted that the tour should take about an hour. Twenty-five (25) faculty have expressed interest in attending the tour. Mr. Machado noted that SMS Building Committee Members should e-mail him or Mr. Tavares if they wish to attend.	Ongoing
	07/15/19	Dan Tavares suggested that the Committee take time to visit other schools with similar program.	Ongoing
	06/24/19	Dan Tavares stated that CGA has investigated whether they can receive pdfs of the model school plans. The MSBA confirmed that they cannot share plans at this time (prior to completing the feasibility study to determine if new construction is the preferred option and the SMSBC decides to explore the model school program).	Ongoing
	04/22/19	Dan Tavares stated that given the timeline the committee can only visit schools after the selection of an architect. Jeff Schoonover to send to the committee what CGA sent as recent schools to look at.  Model School Update: Daniel Tavares stated that 2 of 3 are still viable. Kevin Scanlon asked if it is possible to get pdfs of the plans for the model schools. CGA to look into model schools.	Record  CGA
	03/18/19	CGA will investigate recently constructed schools for the SMSBC to visit prior to the release of the RFS.	CGA
10.01		Schedule	
	09/16/19	<b>Mr. Tavares provided an updated schedule as part of the OPM report. Refer to line item no. 12.1. No discussion regarding special town vote.</b>	Record
	07/15/19	Mr. Tavares reviewed the 'Look Ahead' schedule (see OPM Progress Report). He stated, we are entering Module 3: Feasibility Study consisting of preliminary design program and preferred schematic report.	Record
	06/24/19	Chris Godet asked if schedule will change due to MSBA panel vote and Studio G's declining to be interviewed. Dan Tavares stated that no not due to MSBA panel decision to or not to interview; however, D. Tavares noted that when Ai3 is on board their outlined schedule may improve.  Jeff Schoonover asked if the town vote can be moved up to special town meeting in December, 2020 rather than May, 2021. D. Tavares noted that this could be the target date in the schedule for the designer to meet so that they can be ready to provide information to voters.	Record  Record

11.1		Ai3 Introductions and Update	
	09/16/19	<p>Mr. Troy Randell presented an update regarding critical upcoming dates which include Preliminary Design Program (PDP) – December 20, 2019, Preferred Schematic Report (PSR) – April 24, 2020, and Schematic Design (SD) – October 19, 2020. Mr. Randell noted that data has been collected by consultants and that feedback will be provided including, but not limited to, reports. Information collected, including reports, shall be provided to the Committee for their information and records prior to their next meeting.</p> <p>Mr. Randell noted that the site and civil engineers will be at the next meeting to present their findings to and answer and questions from the Committee.</p> <p>Educational Vision Sessions will be held on September 27<sup>th</sup>, October 18<sup>th</sup> and November 5<sup>th</sup>.</p> <p>Ai3 will work with SMS staff to put together a program/space study.</p> <p>Mr. Tavares reviewed the capacities of the North, South and Chase Elementary Schools (K-5) and noted the student per classroom ratios for each school. Mr. Tavares also noted to the Committee the advantages and disadvantages (pros/cons) of having 5<sup>th</sup> grade students together with 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> grade students.</p> <p>Ai3 presented a brief summary of their existing conditions assessment of the building which included, but was not limited to, condition of existing exterior masonry walls, condition of single pane windows and severe accessibility barriers.</p> <p>Mr. Medeiros asked Ai3 to provide handouts of their presentation and any future presentations to the Committee at or before the meeting. Ai3 noted that moving forward they will provide handouts.</p>	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Record/ Close</p> <p>Record/ Close</p> <p>Record/ Close</p>
	07/15/19	<p>Mr. Troy Randell was introduced. He thanked the committee for the opportunity and reviewed the MSBA project service scopes consisting of assessment testing, education design process and program design. The education narrative (vision) will also be developed in the next 3 to 4 months. Two or three options will be developed) preferred schematic design. One of the options will be decided by the building committee, followed by a final schematic design. The final design will require a vote by the town.</p> <p>Ai3 presentation by Mr. Randell. (See slide show presentation.) Discussion followed.</p>	<p>Record</p> <p>Record</p>
11.2	07/15/19	<p>Future Meetings</p> <p>Mr. Tavares asked if another night might be better than Monday's. Discussion followed.</p> <p>Next Building Committee Meeting possible date is Monday, August 12, 2019 at 6:00 followed by Monday, September 16, 2019 at 6:00pm.</p>	<p>Record</p> <p>Ongoing</p>

		Looking for a 'working group' to meet once a week (Superintendent, Principal, Facilities, Building Committee Chair and could have town representative). Mr. Tavares prefers morning meeting.	Ongoing
		Mr. Tavares, Mr. Randell, Mr. Schoonover, Dr. Camara will discuss building tour dates tomorrow morning.	Ongoing
11.3	07/15/19	Approval of the June 24, 2019 meeting minutes were tabled until the next meeting.	Record

## II NEW BUSINESS ITEMS

No.	Date	Issues	Action
12.1	09/16/19	<p><b>OPM Update</b></p> <p>Mr. Tavares provided the committee with an update which included noting that the designer contact is completed and both the MSBA and the town have copies.</p> <p>Working group meetings which took place on July 7<sup>th</sup>, August 6<sup>th</sup> and 13<sup>th</sup>, September 3<sup>rd</sup>, 10<sup>th</sup> and 16<sup>th</sup> and are ongoing. Mr. Scanlon asked if Committee Members could be notified of upcoming Working Group Sessions in case they would like to attend the session. Mr. Machado noted that committee members are welcome to attend any working group if they would like. Generally, the Sessions take place every Tuesday at the SMS between 8:15 am and 10:00 am. If a Committee Member would like to know they should contact either Mr. Schoonover or Mr. Machado via e-mail.</p> <p>Educational program walkthrough occurred on July 17<sup>th</sup> and a presentation to the SMS faculty and staff took place on August 27<sup>th</sup>.</p> <p>Mr. Tavares noted and listed the Anticipated Project Schedules (APS) for Module 2 (Forming The Project Team), Module 3 (Feasibility Study), Module 4 (Schematic Design) and Module 5 (Funding The Project). Mr. Tavares highlighted the MSBA Board of Directors Meeting / Approval dates. These will take place at the Board's location. CGA will keep the Committee posted on updates to the APS since the dates provided are subject to change.</p> <p>Mr. Tavares reviewed the Project Budget and Invoice Report. Mr. Machado asked who will approve the invoices to which Mr. Tavares was not sure of the town's process. Mr. Machado will review and let the OPM and Committee know.</p>	<p>Record/ Close</p> <p>Record/ Close</p> <p>Record/ Close</p> <p>Ongoing</p> <p>Ongoing</p>
12.2	09/16/19	There will be a kick-off meeting with the MSBA on September 24 <sup>th</sup> at 1pm when they will tour the Existing Somerset Middle School.	Ongoing
12.3	09/16.19	The first of two town forums will be held on Wednesday, September 25 <sup>th</sup> . Tours of the school, lead by students, will begin at 6:00. Forum will begin at 6:30 in the SMS auditorium.	Ongoing
12.4	09/16/19	Mr. Scanlon asked if Committee Members should have CORI checks completed since Committee Members may be in the schools when students are in the schools. Principal Camara will e-mail the CORI Check Form to all Committee Members.	Ongoing



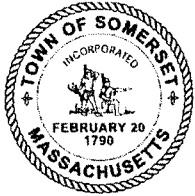
12.5	09/16/19	Mr. Machado thanked CGA and Ai3 and motioned to adjourn the meeting. Mr. Schoonover noted so moved and Mr. Lima seconded the motion. Committee unanimously voted to adjourn the meeting.	Record/ Close
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**ATTACHMENTS:**

1. CGA Project Management – OPM Progress Report Dated 09.16.2019
2. Ai3 Presentation

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*

A handwritten signature in black ink, appearing to be 'Steven Medeiros', written in a cursive style.



# TOWN OF SOMERSET MEETING NOTICE

Received & Posted \_\_\_\_\_ Time: \_\_\_\_\_

\_\_\_\_\_  
Town Clerk

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, October 7, 2019 at 6:00 pm

**Location of Meeting:** School Committee Room in North Elementary School  
580 Whetstone Hill Road, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Recording Secretary, October 3, 2019  
**Clerk/Board Member posting notice & date**

Cancelled or postponed to:

(circle cancelled/postponed)

**REVISED 10-4-19 8:00 am**

Clerk/Board Member cancelling/postponing meeting

## AGENDA / LIST OF TOPICS

- I. Design Schedule Review
- II. Assessment, Testing and Investigation Activities: Status
- III. Existing Middle School Site Analysis
- IV. Educational Visioning Session #1 Review
- V. Educational Space Summary: Preliminary Documented Review
- VI. OPM Report
- VII. Approval of July 15, 2019 and September 16, 2019 Minutes
- VIII. Other Items

**MSBA: Massachusetts School Building Authority**  
**OPM: Owner's Project Manager**

## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 013

<b>Project:</b>	Somerset Middle School Building
<b>Project Location:</b>	1141 Brayton Avenue, Somerset, MA
<b>Meeting Location:</b>	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA
<b>Time:</b>	6:00 pm
<b>Date:</b>	10/07/2019
<b>Next Meeting:</b>	<b>11/04/2019</b>
<b>Upcoming Mtgs:</b>	<b>11/25/2019; 12/16/2019 (TBD: Joint Meeting Vote)</b>

## SMSBC ATTENDEES

Name	Title	Telephone	E-Mail
Jeff Schoonover	Superintendent of Schools/ SMSBC Vice Chairman	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
Victor Machado	School Committee Member/ SMSBC Chairman	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
Michael Botelho	Community Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
Pauline Camara	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
Ronald Tarro	Dir. of Business and Fin. for Somerset Public Schools	508-324-3100	<a href="mailto:Tarror@sbregional.org">Tarror@sbregional.org</a>
Chris Godet	School Committee Member	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
Carlos Campos	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
Kathleen Byers (Absent)	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
Cassey Monte	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
Steven Medeiros	Registered Architect	508-496-5027	<a href="mailto:smedeiros@civitects.com">smedeiros@civitects.com</a>
Robert Lima (Absent)	Superintendent of Somerset Water Dept., Retired	508-672-1272 774-713-0480	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
Kevin Scanlon (Absent)	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanlon819@yahoo.com">Krscanlon819@yahoo.com</a>
Nick Raffa	Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:littlepaisan@aol.com">littlepaisan@aol.com</a>
Nicole Mello	Content Coordinator for Science & Tech. at SMS	508-324-3140	<a href="mailto:Nicole.mello@somersetschools.org">Nicole.mello@somersetschools.org</a>
Holly McNamara (Non-Voting)	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
Richard Brown (Non-voting) - Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

## CGA PROJECT MANAGEMENT, LLC (OPM) ATTENDEES

Name	Title	Telephone	E-Mail
Daniel Tavares	Project Director	617.835.8528	<a href="mailto:dtavares@compassgrouparch.com">dtavares@compassgrouparch.com</a>
Andrew DiGiammo (Absent)	Project Manager	774.244.1101	<a href="mailto:adigiammo@compassgrouparch.com">adigiammo@compassgrouparch.com</a>
Shannon Khoury	Assistant Project Manager	508.989.3630	<a href="mailto:skhoury@compassgrouparch.com">skhoury@compassgrouparch.com</a>
Marybeth Carney	Assistant Project Manager	508.284.2792	<a href="mailto:mcarney@compassgrouparch.com">mcarney@compassgrouparch.com</a>

I OLD BUSINESS ITEMS			
No.	Date	Issues	Action
3.01	10/07/19	No Change/Not Discussed.	Record
	09/16/19	Mr. Scanlon asked if there were any updates regarding the reimbursement rate. Mr. Tavares noted that the reimbursement rate has not changed. Town is reimbursed after payment is issued.	Record
	07/15/19	Mr. Schoonover asked what the reimbursement rate is. Mr. Tavares stated 56.89%. Mr. Godet asked when the Town will receive reimbursement. Mr. Tavares stated that the initial reimbursement should be sent after the Committee approved the contract today.	Record
	06/24/19	No change/Not discussed.	Record
	04/22/19	D. Tavares noted that the reimbursement rate is the locked in rate right now, but there is a potential adjustment when the option is selected in the future.	Record
	03/18/19	56.89% (corrected in 04/22/2019 meeting) reimbursement rate is last year's rate. CGA indicated that the MSBA reimbursement rate is constantly changing and will be locked in during the conclusion of the Certified Study.	Record
	09/17/18	Discussion regarding ensuring the Board stays within the \$800,000.00 allocated funds with the estimated 57% reimbursement rate for the Feasibility Study process.	Record
5.02	10/07/19	<b>Chris Godet asked if the pros and cons of a 5-8 vs having a 6-8 middle school population has been discussed so that a decision can be made as to which direction the town should move forward with. Victor Machado pointed out that the pros and cons have been detailed in Ai3's presentation in earlier meeting and at the town forum which is available on the committee's web site. The town will need to make the decision as to which population the middle school will move forward with.</b>	Ongoing
		<b>Steven Medeiros noted that at the forum Jeff Schoonover had let the people present know that there was a Facilities Assessment completed for the elementary schools which was given to the Somerset School Committee earlier this year. Jeff Schoonover will distribute a copy of the assessment to the committee.</b>	Ongoing
	04/22/19-07/15/19	No change/Not discussed.	Record
	03/18/19	Victor Machado noted that the Somerset School Committee may be looking to re-district prior to any future work at the SMS. Ongoing.	Record
	11/19/18	Victor Machado asked who will make the decision whether the future building project will be grades 5 – 8 or grades 6 – 8. He also asked if the School Committee should be involved due to the future project's effects on academics and the overall district. The SMSBC will review future study and make recommendations to the School Committee.	Record

		It was noted that a facility assessment, which is evaluating all three elementary schools, is due in February 2019. It will indicate the condition of the three schools as well as make recommendations. Findings in the assessment may help dictate the direction of the future middle school. A pros and cons assessment should be made after the facility assessment and the SMS study are completed.	Record
8.01	10/07/19	<b>Steven Medeiros asked Dan Tavares to provide an update regarding Incentive Points. Dan Tavares noted that these are different categories that the if eligible, the town could receive additional funding. There are only three that Mr. Tavares is aware of which is Maintenance Evaluation, Sustainability and Addition/Renovation Projects. Caps do exist that the MSBA will look at to evaluate money distribution from community to community. This will be reviewed and determined at a later date.</b>	Record/ Close
	04/22/19	Ongoing.	Record
	03/18/19	CGA discussed difference between eligible and ineligible reimbursement. Kevin Scanton asked which spaces are not reimbursable. CGA indicated that some examples are auditoriums, temporary classrooms, moving expenses and legal fees to name a few. The handout provided by CGA noted that the MSBA, in its sole discretion, will review if a district is eligible for incentive points. Also, statute dictates that no district shall be eligible for more than 18 Incentive Points in total, and that no one category of Incentive Points can be more than 6 points.	Record
8.04	10/07/19	<b>Mr. Tavares noted that the Barrington Middle School Site visit went well.</b>	Record
		<b>Ai3 is looking to schedule walk-thru of Quincy Middle School and Beverly Middle School.</b>	Ongoing
		<b>Jeff Schoonover is looking at a touring the Sharon Middle School which is a addition/renovation project.</b>	Ongoing
	09/16/19	CGA has scheduled a walk-thru of the recently constructed Barrington Middle School (261 Middle Highway, Barrington, RI) for Thursday, September 19, 2019 at 4:00pm. Mr. Tavares noted that the tour should take about an hour. Twenty-five (25) faculty have expressed interest in attending the tour. Mr. Machado noted that SMS Building Committee Members should e-mail him or Mr. Tavares if they wish to attend.	Ongoing
	07/15/19	Dan Tavares suggested that the Committee take time to visit other schools with similar program.	Ongoing
	06/24/19	Dan Tavares stated that CGA has investigated whether they can receive pdfs of the model school plans. The MSBA confirmed that they cannot share plans at this time (prior to completing the feasibility study to determine if new construction is the preferred option and the SMSBC decides to explore the model school program).	Ongoing

	04/22/19	Dan Tavares stated that given the timeline the committee can only visit schools after the selection of an architect. Jeff Schoonover to send to the committee what CGA sent as recent schools to look at.	Record
		Model School Update: Daniel Tavares stated that 2 of 3 are still viable. Kevin Scanlon asked if it is possible to get pdfs of the plans for the model schools. CGA to look into model schools.	CGA
	03/18/19	CGA will investigate recently constructed schools for the SMSBC to visit prior to the release of the RFS.	CGA
10.01		Schedule	
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	07/15/19	Mr. Tavares reviewed the 'Look Ahead' schedule (see OPM Progress Report). He stated, we are entering Module 3: Feasibility Study consisting of preliminary design program and preferred schematic report.	Record
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		Jeff Schoonover asked if the town vote can be moved up to special town meeting in December, 2020 rather than May, 2021. D. Tavares noted that this could be the target date in the schedule for the designer to meet so that they can be ready to provide information to voters.	Record
11.1		Ai3 Introductions and Update	
	10/07/19	<b>Mr. Troy Randell stated that the first visioning session took place on September 27<sup>th</sup>. Approximately 70 people attended. Discussion at the meeting included education priority goals such as integrated technology, auditorium (very important), separate student areas, visible connections to the outdoors, virtual reality spaces and gardens. Also discussed at the meeting is identifying 21<sup>st</sup> century schools and learning goals.</b>	<b>Record/ Close</b>
		<b>The second session will take place on October 18<sup>th</sup>. The goal is to carry discussion into the second session/build on the first session and link the goals in a graphic form (towards space and scale).</b>	<b>Ongoing</b>
		<b>Ai3 is beginning to formulate "Proposed Space Summary" with existing space names, sizes and MSBA standards and guidelines. The goal is to take space names, space sizes and quantity of spaces and formulate a project program. There will be a meeting tomorrow (10/8) and Thursday (10/10) to refine this data. The goal is to bring big picture information to the next meeting.</b>	<b>Ongoing</b>

	09/16/19	Mr. Troy Randell presented an update regarding critical upcoming dates which include Preliminary Design Program (PDP) – December 20, 2019, Preferred Schematic Report (PSR) – April 24, 2020, and Schematic Design (SD) – October 19, 2020. Mr. Randell noted that data has been collected by consultants and that feedback will be provided including, but not limited to, reports. Information collected, including reports, shall be provided to the Committee for their information and records prior to their next meeting.	Ongoing
		Mr. Randell noted that the site and civil engineers will be at the next meeting to present their findings to and answer and questions from the Committee.	Ongoing
		Educational Vision Sessions will be held on September 27 <sup>th</sup> , October 18 <sup>th</sup> and November 5 <sup>th</sup> .	Ongoing
		Ai3 will work with SMS staff to put together a program/space study.	Ongoing
	07/15/19	Mr. Troy Randell was introduced. He thanked the committee for the opportunity and reviewed the MSBA project service scopes consisting of assessment testing, education design process and program design. The education narrative (vision) will also be developed in the next 3 to 4 months. Two or three options will be developed) preferred schematic design. One of the options will be decided by the building committee, followed by a final schematic design. The final design will require a vote by the town.	Ongoing
		Ai3 presentation by Mr. Randell. (See slide show presentation.) Discussion followed.	Record
11.2		Future Meetings	
	07/15/19	Mr. Tavares asked if another night might be better than Monday's. Discussion followed.	Record
		Next Building Committee Meeting possible date is Monday, August 12, 2019 at 6:00 followed by Monday, September 16, 2019 at 6:00pm.	Ongoing
		Looking for a 'working group' to meet once a week (Superintendent, Principal, Facilities, Building Committee Chair and could have town representative). Mr. Tavares prefers morning meeting.	Ongoing
		Mr. Tavares, Mr. Randell, Mr. Schoonover, Dr. Camara will discuss building tour dates tomorrow morning.	Ongoing
11.3	07/15/19	Approval of the June 24, 2019 meeting minutes were tabled until the next meeting.	Record
12.1		<b>OPM Update</b>	
	10/07/19	Mr. Tavares noted that the MSBA kick off meeting took place on September 24 <sup>th</sup> . See line item below (12.2).	Ongoing

	09/16/19	Mr. Tavares noted and listed the Anticipated Project Schedules (APS) for Module 2 (Forming The Project Team), Module 3 (Feasibility Study), Module 4 (Schematic Design) and Module 5 (Funding The Project). Mr. Tavares highlighted the MSBA Board of Directors Meeting / Approval dates. These will take place at the Board's location. CGA will keep the Committee posted on updates to the APS since the dates provided are subject to change.  Mr. Tavares reviewed the Project Budget and Invoice Report. Mr. Machado asked who will approve the invoices to which Mr. Tavares was not sure of the town's process. Mr. Machado will review and let the OPM and Committee know.	Ongoing  Ongoing
12.2	10/07/19	<b>Mr. Tavares noted that there was a good discussion with the MSBA regarding the consideration of 5<sup>th</sup> grade inclusion. 5<sup>th</sup> grade would be a non-refundable cost. Committal to the 5<sup>th</sup> grade is not required to be part of PDP submission; however, this will be important later in the process.</b>	Record/ Close
	09/16/19	There will be a kick-off meeting with the MSBA on September 24 <sup>th</sup> at 1pm when they will tour the Existing Somerset Middle School.	Ongoing
12.3	10/07/19	<b>Troy Randell noted to the committee that the turnout at the first forum was very good. There was a heavy consideration regarding cost; however, there is no project to include a cost currently.</b>	Record
	09/16/19	The first of two town forums will be held on Wednesday, September 25 <sup>th</sup> . Tours of the school, led by students, will begin at 6:00. Forum will begin at 6:30 in the SMS auditorium.	Ongoing
12.4	09/16/19	Mr. Scanlon asked if Committee Members should have CORI checks completed since Committee Members may be in the schools when students are in the schools. Principal Camara will e-mail the CORI Check Form to all Committee Members.	Ongoing

II NEW BUSINESS ITEMS			
No.	Date	Issues	Action
13.1	10/07/19	<b>Site Analysis - Civil Engineer</b>  Presenter – Vertex Civil Eng. Andrew Chagnon, PE – Vice President  ESA – Phase I complete and closed out. The site had an underground tank and was closed out appropriately. There are documents which reflect that this occurred in 1997.  Preliminary Traffic Safety Analysis – Vertex is looking at existing conditions at this time (design work will be done later on in the schedule which will include queuing distances). Vertex is reviewing entry onto the site and adjacent streets (3 locations noted on the presentation). Safety analysis is due in the middle of this month.  There is a master plan that has been worked on for 18 months. VHB is doing the masterplan and that's the one that the town is going forward with.	Record  Record/ Close  Ongoing  Record/ Close



		<p>Holly McNamara noted that the new hotel on route 6 did their own traffic study. That it may be worth having Vertex obtain and review.</p> <p>Andrew Chagnon noted that Vertex did the existing conditions site survey which is due at the end of the month.</p> <p>Andrew Chagnon noted that the Geotechnical Engineer completed four (4) borings at the existing site. (Locations were shown on the presentation.) Mr. Chagnon also noted that Vertex has historical data from when the original building was constructed. He noted that there were no surprises and that shallow foundation will most likely be appropriate for the site; however, they will continue to evaluate the data.</p> <p>Wetlands Delineation – Andrew Chagnon noted that there was a stream at the back of the site at one point, but it no longer exists. There is a large wetland west of the existing middle school building and a small one to the south which is regulated by the town.</p> <p>There are areas on the site that are designated by the town as open space but are not designated as open space by the state.</p>	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Record/ Close</p> <p>Record/ Close</p>
13.2	10/17/19	<p>Site Analysis – Landscape Architect</p> <p>Presenter – Traverse Landscape Architects, Arthur J. Eddy, ASLA, LEED AP, Principal</p> <p>Traverse is analyzing the site for potential buildable areas to understand opportunities and constraints at the site. As part of this analysis Traverse is looking at building orientation, existing recreational fields to look at replicating outdoor uses and the tiered portions of the site to take advantage of the topography for tiered landscape for outdoor education. Site education opportunities noted include, but are not limited to, forestry, outdoor spaces, community spaces and outreach paths.</p> <p>Traverse is looking at vehicular and pedestrian circulation patterns. Their goal is to enhance pedestrian routes for walking, biking, etc. Review is ongoing.</p>	<p>Record</p> <p>Ongoing</p> <p>Ongoing</p>
13.3	10/07/19	<p>Michel Botelho asked if the community used many of the spaces at the school. Dr. Camara noted that there are many community groups that use the middle school. The gymnasium is used seven (7) days a week.</p>	<p>Record/ Close</p>
13.4	10/07/19	<p>Nicole Mello had a question regarding the number of students identified. Mr. Randell noted that the number of students identified by MSBA is a contract between the MSBA and the Town of Somerset. It is a hard number that cannot be changed.</p>	<p>Record/ Close</p>
13.5	10/07/19	<p>Richard Brown will remain the MCPPO certified board member. Ronald Tarro is taking classes to become MCPPO certified. It is the committee's understanding that the needs to be a 3 year wait period. Victor Machado will reach out to the MSBA about whether or not there needs to be a 3 year wait period and will update the group at the next meeting.</p>	<p>Ongoing</p>

13.6	10/07/19	<p>Mr. Machado motioned to approve the meeting minutes dated July 15, 2019. Dr. Camara noted so moved and Mr. Schoonover seconded the motion. Committee unanimously voted accept the meeting minutes. Michael Botelho, Nicole Mello and Ron Torro abstained from the vote.</p> <p>Mr. Machado motioned to approve the meeting minutes dated September 16, 2019. Mr. Schoonover noted so moved and Dr. Camara seconded the motion. Committee unanimously voted accept the meeting minutes. Michael Botelho, Chris Godet and Ron Torro abstained from the vote.</p>	Record/ Close
13.7	10/07/19	Mr. Machado motioned to adjourn the meeting. Mr. Godet noted so moved and Mr. Schoonover seconded the motion. Committee unanimously voted to adjourn the meeting.	Record/ Close

**ATTACHMENTS:**

1. CGA Project Management – OPM Progress Report Dated 10.07.2019
2. Ai3, Traverse and Vertex Presentation

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*





# TOWN OF SOMERSET MEETING NOTICE

Received & Posted _____	Time: _____
_____	
Town Clerk	

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, November 4, 2019 at 6:00 pm

**Location of Meeting:** School Committee Room in North Elementary School  
580 Whetstone Hill Road, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Recording Secretary, October 28, 2019  
**Clerk/Board Member posting notice & date**

Cancelled or postponed to:  
(circle cancelled/postponed)

Clerk/Board Member cancelling/postponing meeting

## AGENDA / LIST OF TOPICS

- I. Design Schedule Review
- II. Assessment, Testing and Investigation Activities: Update
- III. Educational Visioning Session #2: Review
- IV. Educational Programming Update
- V. Review of Preliminary Options
- VI. OPM Report
- VII. Approval of October 7, 2019 Minutes
- VIII. Other Items

**MSBA: Massachusetts School Building Authority**  
**OPM: Owner's Project Manager**

## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 014

<b>Project:</b>	Somerset Middle School Building
<b>Project Location:</b>	1141 Brayton Avenue, Somerset, MA
<b>Meeting Location:</b>	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA
<b>Time:</b>	6:00 pm
<b>Date:</b>	11/04/2019
<b>Next Meeting:</b>	<b>11/25/2019</b>
<b>Upcoming Mtgs:</b>	<b>12/16/2019 (TBD: Joint Meeting Vote)</b>

## SMSBC ATTENDEES

Name	Title	Telephone	E-Mail
Jeff Schoonover	Superintendent of Schools/ SMSBC Vice Chairman	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
Victor Machado	School Committee Member/ SMSBC Chairman	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
Michael Botelho	Community Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
Pauline Camara	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
Ronald Tarro	Dir. of Business and Fin. for Somerset Public Schools	508-324-3100	<a href="mailto:Tarror@sbregional.org">Tarror@sbregional.org</a>
Chris Godet	School Committee Member	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
Carlos Campos	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
Kathleen Byers	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
Cassey Monte (Absent)	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
Steven Medeiros	Registered Architect	508-496-5027	<a href="mailto:smedeiros@civitects.com">smedeiros@civitects.com</a>
Robert Lima	Superintendent of Somerset Water Dept., Retired	508-672-1272 774-713-0480	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
Kevin Scanlon	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanlon819@yahoo.com">Krscanlon819@yahoo.com</a>
Nick Raffa	Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:littlepaisan@aol.com">littlepaisan@aol.com</a>
Nicole Mello	Content Coordinator for Science & Tech. at SMS	508-324-3140	<a href="mailto:Nicole.mello@somersetschools.org">Nicole.mello@somersetschools.org</a>
Holly McNamara (Non-Voting)	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
Richard Brown (Non-voting) - Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

## CGA PROJECT MANAGEMENT, LLC (OPM) ATTENDEES

Name	Title	Telephone	E-Mail
Daniel Tavares	Project Director	617.835.8528	<a href="mailto:dtavares@compassgrouparch.com">dtavares@compassgrouparch.com</a>
Andrew DiGiammo (Absent)	Project Manager	774.244.1101	<a href="mailto:adigiammo@compassgrouparch.com">adigiammo@compassgrouparch.com</a>
Shannon Khoury	Assistant Project Manager	508.989.3630	<a href="mailto:skhoury@compassgrouparch.com">skhoury@compassgrouparch.com</a>
Marybeth Carney	Assistant Project Manager	508.284.2792	<a href="mailto:mcarney@compassgrouparch.com">mcarney@compassgrouparch.com</a>

I OLD BUSINESS ITEMS			
No.	Date	Issues	Action
3.01	10/07/19-11/04/19	<b>No Change/Not Discussed.</b>	<b>Record</b>
	09/16/19	Mr. Scanlon asked if there were any updates regarding the reimbursement rate. Mr. Tavares noted that the reimbursement rate has not changed. Town is reimbursed after payment is issued.	Record
	07/15/19	Mr. Schoonover asked what the reimbursement rate is. Mr. Tavares stated 56.89%. Mr. Godet asked when the Town will receive reimbursement. Mr. Tavares stated that the initial reimbursement should be sent after the Committee approved the contract today.	Record
	06/24/19	No change/Not discussed.	Record
	04/22/19	D. Tavares noted that the reimbursement rate is the locked in rate right now, but there is a potential adjustment when the option is selected in the future.	Record
	03/18/19	56.89% (corrected in 04/22/2019 meeting) reimbursement rate is last year's rate. CGA indicated that the MSBA reimbursement rate is constantly changing and will be locked in during the conclusion of the Certified Study.	Record
	09/17/18	Discussion regarding ensuring the Board stays within the \$800,000.00 allocated funds with the estimated 57% reimbursement rate for the Feasibility Study process.	Record
5.02	11/04/19	<b>There will be a School Committee Meeting on November 12<sup>th</sup>. Selectmen, Ai3 and CGA have been invited for an update. Nothing has been shared with the Selectmen and School Committee as of this meeting. The School Committee will be asked to form a committee to discuss Grades 5 thru 8 verses Grades 6 thru 8 at the Somerset Middle School.</b>	<b>Ongoing</b>
	10/07/19	Chris Godet asked if the pros and cons of a 5-8 vs having a 6-8 middle school population has been discussed so that a decision can be made as to which direction the town should move forward with. Victor Machado pointed out that the pros and cons have been detailed in Ai3's presentation in earlier meeting and at the town forum which is available on the committee's web site. The town will need to make the decision as to which population the middle school will move forward with.  Steven Medeiros noted that at the forum Jeff Schoonover had let the people present know that there was a Facilities Assessment completed for the elementary schools which was given to the Somerset School Committee earlier this year. Jeff Schoonover will distribute a copy of the assessment to the committee.	Ongoing  Ongoing
	04/22/19-07/15/19	No change/Not discussed.	Record

	03/18/19	Victor Machado noted that the Somerset School Committee may be looking to re-district prior to any future work at the SMS. Ongoing.	Record
	11/19/18	Victor Machado asked who will make the decision whether the future building project will be grades 5 – 8 or grades 6 – 8. He also asked if the School Committee should be involved due to the future project's effects on academics and the overall district. The SMSBC will review future study and make recommendations to the School Committee.	Record
		It was noted that a facility assessment, which is evaluating all three elementary schools, is due in February 2019. It will indicate the condition of the three schools as well as make recommendations. Findings in the assessment may help dictate the direction of the future middle school. A pros and cons assessment should be made after the facility assessment and the SMS study are completed.	Record
8.04	11/04/19	<b>Tours of the Beverly Middle School and Quincy South West Middle Schools (both designed by Ai3) occurred on October 15<sup>th</sup>.</b>  <b>Jeff Schoonover is in the process of scheduling a tour of the Town of Sharon Middle School which was renovated in 2012.</b>	Record  Ongoing
	10/07/19	Mr. Tavares noted that the Barrington Middle School Site visit went well.  Ai3 is looking to schedule walk-thru of Quincy Middle School and Beverly Middle School.	Record  Ongoing
		Jeff Schoonover is looking at a touring the Sharon Middle School which is a addition/renovation project.	Ongoing
	09/16/19	CGA has scheduled a walk-thru of the recently constructed Barrington Middle School (261 Middle Highway, Barrington, RI) for Thursday, September 19, 2019 at 4:00pm. Mr. Tavares noted that the tour should take about an hour. Twenty-five (25) faculty have expressed interest in attending the tour. Mr. Machado noted that SMS Building Committee Members should e-mail him or Mr. Tavares if they wish to attend.	Ongoing
	07/15/19	Dan Tavares suggested that the Committee take time to visit other schools with similar program.	Ongoing
	06/24/19	Dan Tavares stated that CGA has investigated whether they can receive pdfs of the model school plans. The MSBA confirmed that they cannot share plans at this time (prior to completing the feasibility study to determine if new construction is the preferred option and the SMSBC decides to explore the model school program).	Ongoing
	04/22/19	Dan Tavares stated that given the timeline the committee can only visit schools after the selection of an architect. Jeff Schoonover to send to the committee what CGA sent as recent schools to look at.	Record
		Model School Update: Daniel Tavares stated that 2 of 3 are still viable. Kevin Scanlon asked if it is possible to get pdfs of the plans for the model schools. CGA to look into model schools.	CGA
	03/18/19	CGA will investigate recently constructed schools for the SMSBC to visit prior to the release of the RFS.	CGA

10.01	Schedule	<p>11/04/19 <b>Mr. Tavares provided an updated schedule as part of the OPM report. Refer to line item no. 12.1.</b></p> <p>09/16/19 Mr. Tavares provided an updated schedule as part of the OPM report. Refer to line item no. 12.1. No discussion regarding special town vote.</p> <p>07/15/19 Mr. Tavares reviewed the 'Look Ahead' schedule (see OPM Progress Report). He stated, we are entering Module 3: Feasibility Study consisting of preliminary design program and preferred schematic report.</p> <p>06/24/19 Chris Godet asked if schedule will change due to MSBA panel vote and Studio G's declining to be interviewed. Dan Tavares stated that no not due to MSBA panel decision to or not to interview; however, D. Tavares noted that when Ai3 is on board their outlined schedule may improve.</p> <p>Jeff Schoonover asked if the town vote can be moved up to special town meeting in December, 2020 rather than May, 2021. D. Tavares noted that this could be the target date in the schedule for the designer to meet so that they can be ready to provide information to voters.</p>	<p>Record</p> <p>Record</p> <p>Record</p> <p>Record</p> <p>Record</p>
11.1	Ai3 Introductions and Update	<p>11/04/19 <b>Mr. Randell noted that the second session did take place on October 18<sup>th</sup>. Over 65 staff and faculty participated which were broken up into discussion groups of eight teams of five (5) to six (6) individuals. Main goal of this session is to identify eight (8) to ten (10) priorities and considerations based on fifty (50) design patterns. Establish four (4) to six (6) guiding principles.</b></p> <p>The next visioning session will take place tomorrow (November 5<sup>th</sup>) at the SBRHS from 12:20 PM to 2:00 PM.</p> <p>PDP submission, due December 20, 2019, to include the following:</p> <ul style="list-style-type: none"> <li>• Education Program</li> <li>• Initial Education Survey</li> <li>• Evaluation of existing conditions at the middle school</li> <li>• Evaluation of existing elementary schools</li> <li>• Evaluation of alternate options</li> </ul> <p>Mr. Randell noted the following updates regarding critical upcoming dates which include Preferred Schematic Report (PSR) – May 6, 2020, and Schematic Design (SD) – September 9, 2020. Ai3 and CGA will update the Committee if these dates change.</p> <p>Mr. Scanlon asked Ai3 to provide handouts of their presentation and any future presentations to the Committee at or before the meeting. Ai3 noted that moving forward they will provide handouts.</p>	<p>Record/ Close</p> <p>Ongoing</p> <p>Ongoing</p> <p>Record/ Close</p> <p>Record/ Close</p>

	<p>Mr. Scanlon asked how the design team will balance teachers current wish list and future teaching styles. How does the design team make the design adoptable for future teaching styles? Dr. Camara responded that much of the proposed spaces will be flexible so that there is opportunity to adapt to future teaching. Mr. Randell noted that some key design aspects to help with flexibility include, but are not limited to, the following:</p> <ol style="list-style-type: none"> <li>1. Connection of spaces will be important to flexibility.</li> <li>2. Natural light in spaces.</li> <li>3. Less built-ins will create greater flexibility.</li> <li>4. Wireless technology.</li> </ol>	Record/ Close
10/07/19	<p>The second session will take place on October 18<sup>th</sup>. The goal is to carry discussion into the second session/build on the first session and link the goals in a graphic form (towards space and scale).</p> <p>Ai3 is beginning to formulate "Proposed Space Summary" with existing space names, sizes and MSBA standards and guidelines. The goal is to take space names, space sizes and quantity of spaces and formulate a project program. There will be a meeting tomorrow (10/8) and Thursday (10/10) to refine this data. The goal is to bring big picture information to the next meeting.</p> <p>Mr. Troy Randell presented an update regarding critical upcoming dates which include Preliminary Design Program (PDP) – December 20, 2019, Preferred Schematic Report (PSR) – April 24, 2020, and Schematic Design (SD) – October 19, 2020. Mr. Randell noted that data has been collected by consultants and that feedback will be provided including, but not limited to, reports. Information collected, including reports, shall be provided to the Committee for their information and records prior to their next meeting.</p>	Ongoing
09/16/19	<p>Mr. Randell noted that the site and civil engineers will be at the next meeting to present their findings to and answer and questions from the Committee.</p> <p>Educational Vision Sessions will be held on September 27<sup>th</sup>, October 18<sup>th</sup> and November 5<sup>th</sup>.</p> <p>Ai3 will work with SMS staff to put together a program/space study.</p> <p>Mr. Troy Randell was introduced. He thanked the committee for the opportunity and reviewed the MSBA project service scopes consisting of assessment testing, education design process and program design. The education narrative (vision) will also be developed in the next 3 to 4 months. Two or three options will be developed) preferred schematic design. One of the options will be decided by the building committee, followed by a final schematic design. The final design will require a vote by the town.</p>	Ongoing
07/15/19	<p>Ai3 presentation by Mr. Randell. (See slide show presentation.) Discussion followed.</p>	Record



12.1	11/14/19	<b>OPM Update</b>  Mr. Tavares provided an update on Ai3's progress. He also provided an update on Working Group and Security and Technology Meetings including dates when the meetings were held.  Mr. Tavares reviewed the Project Budget and Invoice Report. Amount has been sent to the MSBA for reimbursement.	Ongoing  Record
	10/07/19	Mr. Tavares noted that the MSBA kick off meeting took place on September 24 <sup>th</sup> . See line item below (12.2).	Ongoing
	09/16/19	Mr. Tavares noted and listed the Anticipated Project Schedules (APS) for Module 2 (Forming The Project Team), Module 3 (Feasibility Study), Module 4 (Schematic Design) and Module 5 (Funding The Project). Mr. Tavares highlighted the MSBA Board of Directors Meeting / Approval dates. These will take place at the Board's location. CGA will keep the Committee posted on updates to the APS since the dates provided are subject to change.	Ongoing
		Mr. Tavares reviewed the Project Budget and Invoice Report. Mr. Machado asked who will approve the invoices to which Mr. Tavares was not sure of the town's process. Mr. Machado will review and let the OPM and Committee know.	Ongoing
12.2	11/14/19	<b>As part of his OPM update Mr. Tavares noted to the Committee that MSBA reconfirmed their limited partition of a 5-8 Somerset Middle School via an e-mail dated October 24<sup>th</sup>. He noted that no further action has been taken since the October 24<sup>th</sup> e-mail.</b>	Record/ Close
	10/07/19	Mr. Tavares noted that there was a good discussion with the MSBA regarding the consideration of 5 <sup>th</sup> grade inclusion. 5 <sup>th</sup> grade would be a non-refundable cost. Committal to the 5 <sup>th</sup> grade is not required to be part of PDP submission; however, this will be important later in the process.	Record
	09/16/19	There will be a kick-off meeting with the MSBA on September 24 <sup>th</sup> at 1pm when they will tour the Existing Somerset Middle School.	Ongoing
12.3	11/14/19	<b>The second of two forums will be held on Wednesday, November 13<sup>th</sup> at 6 pm at the Somerset Middle School.</b>	Ongoing
	10/07/19	Troy Randell noted to the committee that the turnout at the first forum was very good. There as a heavy consideration regarding cost; however, there is no project to include a cost currently.	Record
	09/16/19	The first of two town forums will be held on Wednesday, September 25 <sup>th</sup> . Tours of the school, led by students, will begin at 6:00. Forum will begin at 6:30 in the SMS auditorium.	Ongoing
12.4	09/16/19	Mr. Scanlon asked if Committee Members should have CORI checks completed since Committee Members may be in the schools when students are in the schools. Principal Camara will e-mail the CORI Check Form to all Committee Members.	Ongoing

13.1	10/07/19	<p><b>Site Analysis - Civil Engineer</b></p> <p>Presenter – Vertex Civil Eng. Andrew Chagnon, PE – Vice President</p> <p>Preliminary Traffic Safety Analysis – Vertex is looking at existing conditions at this time (design work will be done later on in the schedule which will include queuing distances). Vertex is reviewing entry onto the site and adjacent streets (3 locations noted on the presentation). Safety analysis is due in the middle of this month.</p> <p>Holly McNamara noted that the new hotel on route 6 did their own traffic study. That it may be worth having Vertex obtain and review.</p> <p>Andrew Chagnon noted that Vertex did the existing conditions site survey which is due at the end of the month.</p> <p>Andrew Chagnon noted that the Geotechnical Engineer completed four (4) borings at the existing site. (Locations were shown on the presentation.) Mr. Chagnon also noted that Vertex has historical data from when the original building was constructed. He noted that there were no surprises and that shallow foundation will most likely be appropriate for the site; however, they will continue to evaluate the data.</p>	<p>Record</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p>
13.2	<p>11/04/19</p> <p>10/17/19</p>	<p><b>Site Analysis – Landscape Architect</b></p> <p><b>Not discussed.</b></p> <p>Presenter – Traverse Landscape Architects, Arthur J. Eddy, ASLA, LEED AP, Principal</p> <p>Traverse is analyzing the site for potential buildable areas to understand opportunities and constraints at the site. As part of this analysis Traverse is looking at building orientation, existing recreational fields to look at replicating outdoor uses and the tiered portions of the site to take advantage of the topography for tiered landscape for outdoor education. Site education opportunities noted include, but are not limited to, forestry, outdoor spaces, community spaces and outreach paths.</p> <p>Traverse is looking at vehicular and pedestrian circulation patterns. Their goal is to enhance pedestrian routes for walking, biking, etc. Review is ongoing.</p>	<p>Ongoing</p> <p>Record</p> <p>Ongoing</p> <p>Ongoing</p>
13.5	10/07/19	<p>Richard Brown will remain the MCPPO certified board member. Ronald Tarro is taking classes to become MCPPO certified. It is the committee's understanding that the needs to be a 3 year wait period. Victor Machado will reach out to the MSBA about whether or not there needs to be a 3 year wait period and will update the group at the next meeting.</p>	ongoing

II NEW BUSINESS ITEMS			
No.	Date	Issues	Action
14.1	11/04/19	<p><b>Educational Program Summary</b></p> <p>Ai3 presented space adjacency diagrams which show size (bubble diagram not exact sizes – large bubble larger spaces and small bubble smaller spaces) and spatial relationship. Spaces include:</p> <ul style="list-style-type: none"> <li>• Core Academic Spaces</li> <li>• Special Education Spaces</li> </ul> <p>‘Neighborhoods’ are formed. All neighborhoods are similar and were be broken out as follows:</p> <ul style="list-style-type: none"> <li>• 6<sup>th</sup> to 8<sup>th</sup> Grade Level Organization <ul style="list-style-type: none"> <li>▪ 6<sup>th</sup> Grade Lower Level School</li> <li>▪ 7<sup>th</sup> to 8<sup>th</sup> Grade Upper Level School</li> </ul> </li> <li>• 5<sup>th</sup> to 8<sup>th</sup> Grade Level Organization <ul style="list-style-type: none"> <li>▪ 5<sup>th</sup> to 6<sup>th</sup> Grade Lower Level School</li> <li>▪ 7<sup>th</sup> to 8<sup>th</sup> Grade Upper Level School</li> </ul> </li> <li>• Art and Music Connections</li> <li>• Vocational, Technology Computer Literacy, Coding Robotics and Manufacturing</li> <li>• Guidance – Much feedback included one central and entrance and egress out of each room.</li> <li>• Medical – Nurse near guidance and main offices.</li> </ul> <p>Mr. Botelho asked Ai3 how different are the Somerset Middle School bubble diagrams from those of other schools? Mr. Randell responded that the diagrams are not very different. He also noted that new auditorium square footage will not be reimbursed and that there will be some areas that will be more prominent in Somerset’s program that may not be as prominent in another community (i.e. an auditorium).</p> <p>Mr. Randell noted that if a district identifies a need for a space then it is the district’s responsibility to provide back-up of why the space and quantity are needed. One example that was noted was that there is a large space in the Somerset Berkley Regional High School that may be used by the community, but does not belong to the Town of Somerset since it is a regional school and belongs to both Somerset and Berkley. There may be a need for more community space for the Town of Somerset.</p>	<p>Record</p> <p>Record</p> <p>Ongoing</p>
14.2	11/04/19	<p><b>Preliminary Building Options</b></p> <p>Option 1 – Base Repair – Repairs to the existing building.</p> <ol style="list-style-type: none"> <li>1. Mr. Randell noted that MSBA requires that this option is required to be carried out throughout the entire study.</li> <li>2. Only code required repairs would be part of this option.</li> <li>3. There will be no education upgrades, no site upgrades, no new walls, no technology upgrades and no MSBA reimbursement. Town would bear the cost of the work.</li> </ol>	Record

	<p><b>Option 2 – Grade 6 thru 8 - Addition to / Renovation of the existing building.</b></p> <ol style="list-style-type: none"> <li>1. This option will require future 6,500 square foot additions to both the Chase Street Elementary School and the South Elementary School due to the lack of space.</li> <li>2. The work at the SMS would include 124,000 gross square foot of existing building renovations and 25,000 gross square feet of new construction.</li> <li>3. Temporary modular swing space would be required. Mr. Tavares noted that modular spaces are not reimbursable by the MSBA.</li> </ol> <p><b>Option 3 – Grade 6 thru 8 - Addition to / Renovation of the existing building. (Mr. Randell noted that this option is not advantageous.)</b></p> <ol style="list-style-type: none"> <li>1. This option will require future 6,500 square foot additions to both the Chase Street Elementary School and the South Elementary School due to the lack of space.</li> <li>2. The work at the SMS would include 124,000 gross square feet of new building construction and 13,000 gross square feet of renovations (auditorium and lecture hall).</li> <li>3. Mr. Randell noted that this option is very complex. Due to the complexity and phasing the duration of construction could be as long as three (3) years.</li> </ol> <p><b>Option 4 – Grade 6 thru 8 - New Construction</b></p> <ol style="list-style-type: none"> <li>1. This option will require future 6,500 square foot additions to both the Chase Street Elementary School and the South Elementary School due to the lack of space.</li> <li>2. Mr. Randell noted that there is buildable area towards Brayton Avenue and that this option is the most sustainable and most efficient option. It also resolves site issues and expands site amenities.</li> <li>3. Mr. Randell noted that this option has the least impact to the town and the community.</li> </ol> <p><b>Option 5 – Grade 5 thru 8 – Addition to / Renovation of the existing building.</b></p> <ol style="list-style-type: none"> <li>1. Phase One (1) would includes building a two (2) story addition to move occupants around for renovation work at other sections of the building.</li> <li>2. This option will require 82,000 gross square feet of new construction and 87,000 gross square feet of renovations to the existing building.</li> <li>3. The building will be occupied during the work.</li> </ol> <p><b>Option 6 – Grade 5 thru 8 – Addition to / Renovation of the existing building. (Mr. Randell noted that this option is not advantageous.)</b></p> <ol style="list-style-type: none"> <li>1. This option will require 156,000 gross square feet of new construction and 13,000 square feet of renovation work to the existing building.</li> <li>2. Temporary modular swing space would be required. Mr. Tavares noted that modular spaces are not reimbursable by the MSBA.</li> </ol>	<p>Record</p> <p>Record</p> <p>Record</p> <p>Record</p> <p>Record</p>
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		<p>Option 7 – Grade 5 thru 8 – New Construction (Similar to Grade 6 thru 8 new construction option).</p> <ol style="list-style-type: none"> <li>1. Mr. Randell noted that there is buildable area towards Brayton Avenue and that this option is the most sustainable and most efficient option. It also resolves site issues and expands site amenities.</li> <li>2. Mr. Randell noted that this option has the least impact to the town and the community.</li> </ol> <p>Mr. Raffa asked if the addition / renovation options and new construction options will have the same gross square feet. Mr. Randell stated no, the addition / renovation options will have larger square footages because of inefficiencies built in.</p> <p>Mr. Randell was asked about the cost of addition / renovations vs. cost of new construction. He noted that the cost of new construction is slightly higher, but then there is also the cost of phasing and swing space that needs to be considered which will add cost.</p> <p>Mr. Scanlon asked if there were other considerations for option no. 2. Mr. Randell noted that Ai3 will look at different design options / variations for option no. 2.</p>	<p>Record</p> <p>Record/ Close</p> <p>Record/ Close</p> <p>Record/ Close</p>
14.3	11/04/19	Mr. Machado motioned to approve the meeting minutes dated October 7, 2019. Dr. Camara noted so moved and Mr. Schoonover seconded the motion. Committee unanimously voted accept the meeting minutes. Kathleen Myers and Robert Lima abstained from the vote.	Record/ Close
14.4	11/04/19	Mr. Machado motioned to adjourn the meeting. Mr. Botelho noted so moved and Dr. Camara seconded the motion. Committee unanimously voted to adjourn the meeting.	Record/ Close

**ATTACHMENTS:**

1. CGA Project Management – OPM Progress Report Dated 11.04.2019
2. Ai3 Presentation

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*





# TOWN OF SOMERSET MEETING NOTICE

Received & Posted _____	Time: _____
_____	
Town Clerk	

(PLEASE PRINT OR TYPE LEGIBLY)

**Name of Board or Committee:** Somerset School Committee - Somerset Middle School MSBA Building Committee

**Date & Time of Meeting:** Monday, November 25, 2019 at 6:00 pm

**Location of Meeting:** Distance Learning Center, Somerset Berkley Regional High School  
625 County Street, Somerset, MA  
(physical address including room # or name if applicable)

Robin Vaccaro, Recording Secretary, November 21, 2019  
**Clerk/Board Member posting notice & date**

Cancelled or **postponed to:**  
(circle cancelled/postponed)

Clerk/Board Member cancelling/postponing meeting

## AGENDA / LIST OF TOPICS

- I. Design Schedule Review
- II. Assessment, Testing and Investigation Activities: Update
- III. Educational Visioning Session #2: Review
- IV. Educational Programming Update
- V. Review of Preliminary Options
- VI. OPM Report
- VII. Approval of November 4, 2019 Minutes
- VIII. Date of Next Meeting
- IX. Other Items

**MSBA: Massachusetts School Building Authority**  
**OPM: Owner's Project Manager**

## SOMERSET MIDDLE SCHOOL BUILDING COMMITTEE MEETING MINUTES

MEETING NO. 015

Project:	Somerset Middle School Building
Project Location:	1141 Brayton Avenue, Somerset, MA
Meeting Location:	Somerset North Elementary School, 580 Whetstone Hill Road, Somerset, MA
Time:	6:00 pm
Date:	11/25/2019
Next Meeting:	<b>12/16/2019: Joint Meeting Vote</b>
Upcoming Mtgs:	TBD

## SMSBC ATTENDEES

Name	Title	Telephone	E-Mail
Jeff Schoonover	Superintendent of Schools/ SMSBC Vice Chairman	508-324-3100 (215)	<a href="mailto:schoonoverj@sbregional.org">schoonoverj@sbregional.org</a>
Victor Machado	School Committee Member/ SMSBC Chairman	774-488-4349	<a href="mailto:Victor.machado@somersetschools.org">Victor.machado@somersetschools.org</a>
Michael Botelho	Community Member	508-951-2753	<a href="mailto:michael.botelho@somersetschools.org">michael.botelho@somersetschools.org</a>
Pauline Camara	Principal @ SMS	508-324-3140	<a href="mailto:Paulina.camara@somersetschools.org">Paulina.camara@somersetschools.org</a>
Ronald Tarro	Dir. of Business and Fin. for Somerset Public Schools	508-324-3100	<a href="mailto:Tarror@sbregional.org">Tarror@sbregional.org</a>
Chris Godet	School Committee Member	508-646-2800	<a href="mailto:Chr1513@msn.com">Chr1513@msn.com</a>
Carlos Campos	Supervisor Bldgs & Grounds	508-965-3541	<a href="mailto:camposc@sbregional.org">camposc@sbregional.org</a>
Kathleen Byers	Teacher at SMS	508-324-3140	<a href="mailto:Kathleen.byers@somersetschools.org">Kathleen.byers@somersetschools.org</a>
Cassey Monte	Teacher at SMS	508-324-3140	<a href="mailto:Cassey.monte@somersetschools.org">Cassey.monte@somersetschools.org</a>
Steven Medeiros	Registered Architect	508-496-5027	<a href="mailto:smedeiros@civitects.com">smedeiros@civitects.com</a>
Robert Lima	Superintendent of Somerset Water Dept., Retired	508-672-1272 774-713-0480	<a href="mailto:Rlma27351@yahoo.com">Rlma27351@yahoo.com</a>
Kevin Scanlon	Licensed Mass. Construction Supervisor	401-447-6446	<a href="mailto:Krscanlon819@yahoo.com">Krscanlon819@yahoo.com</a>
Nick Raffa	Somerset Advisory and Finance Committee	508-646-2800	<a href="mailto:littlepaisan@aol.com">littlepaisan@aol.com</a>
Nicole Mello Absent	Content Coordinator for Science & Tech. at SMS	508-324-3140	<a href="mailto:Nicole.mello@somersetschools.org">Nicole.mello@somersetschools.org</a>
Holly McNamara (Non-Voting) - Absent	Chair of the Somerset Board of Selectmen	508-646-2800	<a href="mailto:hmcnamara@town.somerset.ma.us">hmcnamara@town.somerset.ma.us</a>
Richard Brown (Non-voting) - Absent	Town Administrator	508-646-2800	<a href="mailto:rbrown@town.somerset.ma.us">rbrown@town.somerset.ma.us</a>

## CGA PROJECT MANAGEMENT, LLC (OPM) ATTENDEES

Name	Title	Telephone	E-Mail
Daniel Tavares	Project Director	617.835.8528	<a href="mailto:dtavares@compassgrouparch.com">dtavares@compassgrouparch.com</a>
Andrew DiGiammo (Absent)	Project Manager	774.244.1101	<a href="mailto:adigiammo@compassgrouparch.com">adigiammo@compassgrouparch.com</a>
Shannon Khoury	Assistant Project Manager	508.989.3630	<a href="mailto:skhoury@compassgrouparch.com">skhoury@compassgrouparch.com</a>
Marybeth Carney	Assistant Project Manager	508.284.2792	<a href="mailto:mcarney@compassgrouparch.com">mcarney@compassgrouparch.com</a>

Committee Guests: Michael McDonald, School Committee Member and Elizabeth Haskell, Director of Curriculum and Assessment, Somerset Public Schools & Somerset Berkley Regional School District

I OLD BUSINESS ITEMS			
No.	Date	Issues	Action
3.01	11/25/19	<p>Ai3 reviewed ineligible and eligible reimbursement costs. Ineligible costs will include:</p> <ol style="list-style-type: none"> <li>1. Hard and soft costs for Fifth (5<sup>th</sup>) Grade which will include approximately 30,000 Gross Square Feet of any project that includes a 5<sup>th</sup> Grade section.</li> <li>2. Hard and soft costs for an auditorium.</li> <li>3. Site costs exceeding eight percent (8%) of the estimated building construction.</li> </ol>	Record
		<p>Ai3 anticipates the following additional MSBA reimbursement:</p> <ol style="list-style-type: none"> <li>1. 3.5% on eligible costs.</li> <li>2. 0% to 5% on Renovation and Re-use</li> </ol>	Record
		<p>Ai3 noted that the adjusted reimbursement rate is approximately thirty-seven percent (37%).</p>	Record
	10/07/19-11/04/19	No Change/Not Discussed.	Record
	09/16/19	Mr. Scanlon asked if there were any updates regarding the reimbursement rate. Mr. Tavares noted that the reimbursement rate has not changed. Town is reimbursed after payment is issued.	Record
	07/15/19	Mr. Schoonover asked what the reimbursement rate is. Mr. Tavares stated 56.89%. Mr. Godet asked when the Town will receive reimbursement. Mr. Tavares stated that the initial reimbursement should be sent after the Committee approved the contract today.	Record
	06/24/19	No change/Not discussed.	Record
	04/22/19	D. Tavares noted that the reimbursement rate is the locked in rate right now, but there is a potential adjustment when the option is selected in the future.	Record
	03/18/19	56.89% (corrected in 04/22/2019 meeting) reimbursement rate is last year's rate. CGA indicated that the MSBA reimbursement rate is constantly changing and will be locked in during the conclusion of the Certified Study.	Record
	09/17/18	Discussion regarding ensuring the Board stays within the \$800,000.00 allocated funds with the estimated 57% reimbursement rate for the Feasibility Study process.	Record
5.02	11/25/19	<p>Ai3 noted that the cost of a 5-8 SMS project will be far less than the cost of any 6-8 SMS option which would require additional work at the Chase Street and South Elementary Schools to add needed space. Mr. Scanlon noted that additional costs for the Chase Street and South Elementary Schools (broken-down in Ai3's presentation) may confuse the public and should be greatly simplified. He also felt that some of the questions on the Project Evaluation Criteria / Matrix were skewed towards new construction or a 5-8 option. Mr. Machado also expressed concern regarding additional information (estimates) regarding work required at the Elementary Schools.</p>	Record/ Ongoing



	<p><b>Ai3 will simplify the elementary school work and remove questions that are skewed in one direction or another.</b></p> <p><b>Mr. Schoonover was asked if the Somerset School Committee has put together a committee to review the 5<sup>th</sup> grade option. He noted that the Somerset School Committee asked him to put together a Committee to review the pros and cons of having Grade 5 at the future middle school.</b></p> <p><b>CGA noted that grades 5-8 and 6-8 options needs to be looked at on an education basis and not construction basis and suggested to the committee that at least one add/reno project should be looked at by Ai3.</b></p>	<p>Ongoing</p> <p>Record</p>
11/04/19	<p>There will be a School Committee Meeting on November 12<sup>th</sup>. Selectmen, Ai3 and CGA have been invited for an update. Nothing has been shared with the Selectmen and School Committee as of this meeting. The School Committee will be asked to form a committee to discuss Grades 5 thru 8 verses Grades 6 thru 8 at the Somerset Middle School.</p>	Ongoing
10/07/19	<p>Chris Godet asked if the pros and cons of a 5-8 vs having a 6-8 middle school population has been discussed so that a decision can be made as to which direction the town should move forward with. Victor Machado pointed out that the pros and cons have been detailed in Ai3's presentation in earlier meeting and at the town forum which is available on the committee's web site. The town will need to make the decision as to which population the middle school will move forward with.</p> <p>Steven Medeiros noted that at the forum Jeff Schoonover had let the people present know that there was a Facilities Assessment completed for the elementary schools which was given to the Somerset School Committee earlier this year. Jeff Schoonover will distribute a copy of the assessment to the committee.</p>	<p>Ongoing</p> <p>Ongoing</p>
04/22/19-07/15/19	No change/Not discussed.	Record
03/18/19	Victor Machado noted that the Somerset School Committee may be looking to re-district prior to any future work at the SMS. Ongoing.	Record
11/19/18	<p>Victor Machado asked who will make the decision whether the future building project will be grades 5 – 8 or grades 6 – 8. He also asked if the School Committee should be involved due to the future project's effects on academics and the overall district. The SMSBC will review future study and make recommendations to the School Committee.</p> <p>It was noted that a facility assessment, which is evaluating all three elementary schools, is due in February 2019. It will indicate the condition of the three schools as well as make recommendations. Findings in the assessment may help dictate the direction of the future middle school. A pros and cons assessment should be made after the facility assessment and the SMS study are completed.</p>	<p>Record</p> <p>Record</p>

8.04	11/25/19	<b>Not Discussed.</b>	Ongoing
	11/04/19	Tours of the Beverly Middle School and Quincy South West Middle Schools (both designed by Ai3) occurred on October 15 <sup>th</sup> .  Jeff Schoonover is in the process of scheduling a tour of the Town of Sharon Middle School which was renovated in 2012.	Record Ongoing
	10/07/19	Mr. Tavares noted that the Barrington Middle School Site visit went well.  Ai3 is looking to schedule walk-thru of Quincy Middle School and Beverly Middle School.	Record Ongoing
	09/16/19	CGA has scheduled a walk-thru of the recently constructed Barrington Middle School (261 Middle Highway, Barrington, RI) for Thursday, September 19, 2019 at 4:00pm. Mr. Tavares noted that the tour should take about an hour. Twenty-five (25) faculty have expressed interest in attending the tour. Mr. Machado noted that SMS Building Committee Members should e-mail him or Mr. Tavares if they wish to attend.	Ongoing
	07/15/19	Dan Tavares suggested that the Committee take time to visit other schools with similar program.	Ongoing
	06/24/19	Dan Tavares stated that CGA has investigated whether they can receive pdfs of the model school plans. The MSBA confirmed that they cannot share plans at this time (prior to completing the feasibility study to determine if new construction is the preferred option and the SMSBC decides to explore the model school program).	Ongoing
	04/22/19	Dan Tavares stated that given the timeline the committee can only visit schools after the selection of an architect. Jeff Schoonover to send to the committee what CGA sent as recent schools to look at.  Model School Update: Daniel Tavares stated that 2 of 3 are still viable. Kevin Scanlon asked if it is possible to get pdfs of the plans for the model schools. CGA to look into model schools.	Record CGA
	03/18/19	CGA will investigate recently constructed schools for the SMSBC to visit prior to the release of the RFS.	CGA
	10.01	Schedule	
		11/25/19	<b>Not Discussed.</b>
	11/04/19	Mr. Tavares provided an updated schedule as part of the OPM report. Refer to line item no. 12.1.	Record
	09/16/19	Mr. Tavares provided an updated schedule as part of the OPM report. Refer to line item no. 12.1. No discussion regarding special town vote.	Record

	07/15/19	Mr. Tavares reviewed the 'Look Ahead' schedule (see OPM Progress Report). He stated, we are entering Module 3: Feasibility Study consisting of preliminary design program and preferred schematic report.	Record
	06/24/19	Chris Godet asked if schedule will change due to MSBA panel vote and Studio G's declining to be interviewed. Dan Tavares stated that no not due to MSBA panel decision to or not to interview; however, D. Tavares noted that when Ai3 is on board their outlined schedule may improve.	Record
		Jeff Schoonover asked if the town vote can be moved up to special town meeting in December, 2020 rather than May, 2021. D. Tavares noted that this could be the target date in the schedule for the designer to meet so that they can be ready to provide information to voters.	Record
11.1		Ai3 Introductions and Update	
	11/25/19	<b>The third visioning session took place on November 5<sup>th</sup> at the SBRHS. Develop bubble diagrams to show what the groups are looking for in the future project. Some elements include:</b> <ol style="list-style-type: none"> <li>1. Center sunken space.</li> <li>2. Large wall with small stage for presentations.</li> <li>3. TV Studio and Media Center.</li> </ol> <p><b>Guiding design principles needed to be narrowed down to not more than five (5). They were narrowed down to the following:</b></p> <ol style="list-style-type: none"> <li>1. Education Innovation.</li> <li>2. Belonging and Ownership.</li> <li>3. Safety and Security.</li> <li>4. Indoor and Outdoor School and Community Connection.</li> <li>5. Sustainability.</li> </ol>	Record/ Close
	11/04/19	The next visioning session will take place tomorrow (November 5 <sup>th</sup> ) at the SBRHS from 12:20 PM to 2:00 PM.	Ongoing
		PDP submission, due December 20, 2019, to include the following: <ul style="list-style-type: none"> <li>• Education Program</li> <li>• Initial Education Survey</li> <li>• Evaluation of existing conditions at the middle school</li> <li>• Evaluation of existing elementary schools</li> <li>• Evaluation of alternate options</li> </ul>	Ongoing
	10/07/19	The second session will take place on October 18 <sup>th</sup> . The goal is to carry discussion into the second session/build on the first session and link the goals in a graphic form (towards space and scale).	Ongoing
		Ai3 is beginning to formulate "Proposed Space Summary" with existing space names, sizes and MSBA standards and guidelines. The goal is to take space names, space sizes and quantity of spaces and formulate a project program. There will be a meeting tomorrow (10/8) and Thursday (10/10) to refine this data. The goal is to bring big picture information to the next meeting.	Ongoing

		Mr. Troy Randell presented an update regarding critical upcoming dates which include Preliminary Design Program (PDP) – December 20, 2019, Preferred Schematic Report (PSR) – April 24, 2020, and Schematic Design (SD) – October 19, 2020. Mr. Randell noted that data has been collected by consultants and that feedback will be provided including, but not limited to, reports. Information collected, including reports, shall be provided to the Committee for their information and records prior to their next meeting.	Ongoing
	09/16/19	Mr. Randell noted that the site and civil engineers will be at the next meeting to present their findings to and answer and questions from the Committee.	Ongoing
		Educational Vision Sessions will be held on September 27 <sup>th</sup> , October 18 <sup>th</sup> and November 5 <sup>th</sup> .	Ongoing
		Ai3 will work with SMS staff to put together a program/space study.	Ongoing
		Mr. Troy Randell was introduced. He thanked the committee for the opportunity and reviewed the MSBA project service scopes consisting of assessment testing, education design process and program design. The education narrative (vision) will also be developed in the next 3 to 4 months. Two or three options will be developed) preferred schematic design. One of the options will be decided by the building committee, followed by a final schematic design. The final design will require a vote by the town.	Ongoing
	07/15/19	Ai3 presentation by Mr. Randell. (See slide show presentation.) Discussion followed.	Record
12.1		<b>OPM Update</b>	
	11/25/19	<b>An update was not provided; however, CGA did provide feedback/ contributed to the discussion.</b>	Record
	11/14/19	Mr. Tavares provided an update on Ai3's progress. He also provided an update on Working Group and Security and Technology Meetings including dates when the meetings were held.	Ongoing
		Mr. Tavares reviewed the Project Budget and Invoice Report. Amount has been sent to the MSBA for reimbursement.	Record
	10/07/19	Mr. Tavares noted that the MSBA kick off meeting took place on September 24 <sup>th</sup> . See line item below (12.2).	Ongoing
	09/16/19	Mr. Tavares noted and listed the Anticipated Project Schedules (APS) for Module 2 (Forming The Project Team), Module 3 (Feasibility Study), Module 4 (Schematic Design) and Module 5 (Funding The Project). Mr. Tavares highlighted the MSBA Board of Directors Meeting / Approval dates. These will take place at the Board's location. CGA will keep the Committee posted on updates to the APS since the dates provided are subject to change.	Ongoing
		Mr. Tavares reviewed the Project Budget and Invoice Report. Mr. Machado asked who will approve the invoices to which Mr. Tavares was not sure of the town's process. Mr. Machado will review and let the OPM and Committee know.	Ongoing

12.3	11/25/19	<b>The second forum took place on Wednesday, November 13<sup>th</sup>.</b>	Close
	11/14/19	The second of two forums will be held on Wednesday, November 13 <sup>th</sup> at 6 pm at the Somerset Middle School.	Ongoing
	10/07/19	Troy Randell noted to the committee that the turnout at the first forum was very good. There as a heavy consideration regarding cost; however, there is no project to include a cost currently.	Record
	09/16/19	The first of two town forums will be held on Wednesday, September 25 <sup>th</sup> . Tours of the school, led by students, will begin at 6:00. Forum will begin at 6:30 in the SMS auditorium.	Ongoing
12.4	09/16/19	Mr. Scanlon asked if Committee Members should have CORI checks completed since Committee Members may be in the schools when students are in the schools. Principal Camara will e-mail the CORI Check Form to all Committee Members.	Ongoing
13.1		<b>Site Analysis - Civil Engineer</b>	
	11/04/19-11/25/19	<b>Not Discussed.</b>	Ongoing
	10/07/19	Presenter – Vertex Civil Eng. Andrew Chagnon, PE – Vice President	Record
		Preliminary Traffic Safety Analysis – Vertex is looking at existing conditions at this time (design work will be done later on in the schedule which will include queuing distances). Vertex is reviewing entry onto the site and adjacent streets (3 locations noted on the presentation). Safety analysis is due in the middle of this month.	Ongoing
		Holly McNamara noted that the new hotel on route 6 did their own traffic study. That it may be worth having Vertex obtain and review.	Ongoing
	Andrew Chagnon noted that Vertex did the existing conditions site survey which is due at the end of the month.	Ongoing	
	Andrew Chagnon noted that the Geotechnical Engineer completed four (4) borings at the existing site. (Locations were shown on the presentation.) Mr. Chagnon also noted that Vertex has historical data from when the original building was constructed. He noted that there were no surprises and that shallow foundation will most likely be appropriate for the site; however, they will continue to evaluate the data.	Ongoing	
13.2		<b>Site Analysis – Landscape Architect</b>	
	11/04/19-11/25/19	<b>Not discussed.</b>	Ongoing
	10/17/19	Presenter – Traverse Landscape Architects, Arthur J. Eddy, ASLA, LEED AP, Principal	Record

		<p>Traverse is analyzing the site for potential buildable areas to understand opportunities and constraints at the site. As part of this analysis Traverse is looking at building orientation, existing recreational fields to look at replicating outdoor uses and the tiered portions of the site to take advantage of the topography for tiered landscape for outdoor education. Site education opportunities noted include, but are not limited to, forestry, outdoor spaces, community spaces and outreach paths.</p> <p>Traverse is looking at vehicular and pedestrian circulation patterns. Their goal is to enhance pedestrian routes for walking, biking, etc. Review is ongoing.</p>	Ongoing
13.5	10/07/19	<p>Richard Brown will remain the MCPPO certified board member. Ronald Tarro is taking classes to become MCPPO certified. It is the committee's understanding that the needs to be a 3 year wait period. Victor Machado will reach out to the MSBA about whether or not there needs to be a 3 year wait period and will update the group at the next meeting.</p>	ongoing
14.1	<p>11/25/19</p> <p>11/04/19</p>	<p>Educational Program Summary</p> <p><b>Some program items were discussed. Refer to line 14.2.</b></p> <p>Ai3 presented space adjacency diagrams which show size (bubble diagram not exact sizes – large bubble larger spaces and small bubble smaller spaces) and spatial relationship. Spaces include:</p> <ul style="list-style-type: none"> <li>• Core Academic Spaces</li> <li>• Special Education Spaces</li> </ul> <p>'Neighborhoods' are formed. All neighborhoods are similar and were be broken out as follows:</p> <ul style="list-style-type: none"> <li>• 6<sup>th</sup> to 8<sup>th</sup> Grade Level Organization             <ul style="list-style-type: none"> <li>▪ 6<sup>th</sup> Grade Lower Level School</li> <li>▪ 7<sup>th</sup> to 8<sup>th</sup> Grade Upper Level School</li> </ul> </li> <li>• 5<sup>th</sup> to 8<sup>th</sup> Grade Level Organization             <ul style="list-style-type: none"> <li>▪ 5<sup>th</sup> to 6<sup>th</sup> Grade Lower Level School</li> <li>▪ 7<sup>th</sup> to 8<sup>th</sup> Grade Upper Level School</li> </ul> </li> <li>• Art and Music Connections</li> <li>• Vocational, Technology Computer Literacy, Coding Robotics and Manufacturing</li> <li>• Guidance – Much feedback included one central and entrance and egress out of each room.</li> <li>• Medical – Nurse near guidance and main offices.</li> </ul> <p>Mr. Botelho asked Ai3 how different are the Somerset Middle School bubble diagrams from those of other schools? Mr. Randell responded that the diagrams are not very different. He also noted that new auditorium square footage will not be reimbursed and that there will be some areas that will be more prominent in Somerset's program that may not be as prominent in another community (i.e. an auditorium).</p>	<p>Ongoing</p> <p>Record</p> <p>Record</p>

		Mr. Randell noted that if a district identifies a need for a space then it is the district's responsibility to provide back-up of why the space and quantity are needed. One example that was noted was that there is a large space in the Somerset Berkley Regional High School that may be used by the community, but does not belong to the Town of Somerset since it is a regional school and belongs to both Somerset and Berkley. There may be a need for more community space for the Town of Somerset.	Ongoing
14.2	11/25/19	<p>Preliminary Building Options</p> <p><b>Ai3 reviewed Project Cost Projections with the Committee explaining difference between Hard Costs (Construction Costs) and Soft Costs (Interiors and Furniture/Equipment Technology/Design and Engineering Management).</b></p> <p>Ai3 also noted that MSBA has been tracking construction costs in their program since 2009. Mr. Randell stated that construction funding limits do go up slightly each year; however, the MSBA is not keeping up with the increase in cost of construction. At this time their funding is limited to \$333.00 per Gross Square Feet. Ai3 and CGA are anticipating MSBA construction funding limit increasing soon either later on this year or early next year based on what the MSBA has done in the past. Ai3 noted that the MSBA make changes per fiscal year not calendar year.</p> <p>CGA noted that on Monday, December 16<sup>th</sup> Ai3 will provide a brief overview to the Somerset School Committee, Somerset Middle School Building Committee and Somerset Board of Selectmen. The three groups will all be voting on two (2) to three (3) options in which they would like Ai3 to continue developing.</p> <p>Teachers on the committee were asked for their feedback regarding the different options. Their main concern is the disruption that would be caused by renovation work in some of the options that may be a distraction while school is in session and would suggest that if the Committee does vote to proceed with an add/reno project than it should be as least disruptive as possible. They felt that new construction options (both 5-8 and 6-8) – Options 4 and 7 - and 6-8 renovation option – Option 2, which would be least intrusive, should be looked at. Mr. Scanlon asked CGA how the SMS Building Committee should inform other committees of the options they recommend. Mr. Tavares stated that the other committees have been informed and that the SMS Building Committee should be the first to meet at the group meeting including approving the November 25<sup>th</sup> meeting minutes. The Committee unanimously voted on moving forward with Options 2, 4 and 7 and will let the other Committees know of their vote at the joint meeting on Monday, December 16<sup>th</sup> which will be held at the Somerset Middle School Library.</p> <p>Ai3 re-reviewed preliminary options and included updates. Updates are included below.</p>	<p>Record/ Close</p> <p>Record/ Close</p> <p>Record</p> <p>Record</p>

11/04/19	<p>Option 1 – Base Repair – Repairs to the existing building.</p> <ol style="list-style-type: none"> <li>1. Mr. Randell noted that MSBA requires that this option is required to be carried out throughout the entire study.</li> <li>2. Only code required repairs would be part of this option.</li> <li>3. There will be no education upgrades, no site upgrades, no new walls, no technology upgrades and no MSBA reimbursement. Town would bear the cost of the work.</li> </ol> <p><b>11/25/19 Update – Estimated to cost \$42,000.00 to \$47,000.00. Duration is not known at this time due to undefined scope of work.</b></p> <ol style="list-style-type: none"> <li>1. <b>Mr. Randell stated that the MSBA does not typically participate in repair projects and it is uncertain at this time as to how much participation there will be by the MSBA.</b></li> </ol> <p>Option 2 – Grade 6 thru 8 - Addition to / Renovation of the existing building.</p> <ol style="list-style-type: none"> <li>1. This option will require future 6,500 square foot additions to both the Chase Street Elementary School and the South Elementary School due to the lack of space.</li> <li>2. The work at the SMS would include 124,000 gross square foot of existing building renovations and 25,000 gross square feet of new construction.</li> <li>3. Temporary modular swing space would be required. Mr. Tavares noted that modular spaces are not reimbursable by the MSBA.</li> </ol> <p><b>11/25/19 Update – Estimated to cost \$88,000,000.00 to \$93,000,000.00. Duration will be approximately forty-two (42) months (3.5 years).</b></p> <p>Option 3 – Grade 6 thru 8 - Addition to / Renovation of the existing building. (Mr. Randell noted that this option is not advantageous.)</p> <ol style="list-style-type: none"> <li>1. This option will require future 6,500 square foot additions to both the Chase Street Elementary School and the South Elementary School due to the lack of space.</li> <li>2. The work at the SMS would include 124,000 gross square feet of new building construction and 13,000 gross square feet of renovations (auditorium and lecture hall).</li> <li>3. Mr. Randell noted that this option is very complex. Due to the complexity and phasing the duration of construction could be as long as three (3) years.</li> </ol> <p><b>11/25/19 Update – Estimated to cost \$82,000,000.00 to \$87,000,000.00. Duration will be approximately forty-eight (48) months (4 years).</b></p> <p>Option 4 – Grade 6 thru 8 - New Construction</p> <ol style="list-style-type: none"> <li>1. This option will require future 6,500 square foot additions to both the Chase Street Elementary School and the South Elementary School due to the lack of space.</li> <li>2. Mr. Randell noted that there is buildable area towards Brayton Avenue and that this option is the most sustainable and most efficient option. It also resolves site issues and expands site amenities.</li> <li>3. Mr. Randell noted that this option has the least impact to the town and the community.</li> </ol>	<p>Record</p> <p>Record/ Close</p> <p>Record</p> <p>Record</p> <p>Record</p> <p>Record/ Close</p> <p>Record</p>
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	<p><b>11/25/19 Update – Estimated to cost \$80,000,000.00 to \$85,000,000.00. Duration will be approximately thirty-four (34) months (2.8 years).</b></p>	<p>Record</p>
	<p>Option 5 – Grade 5 thru 8 – Addition to / Renovation of the existing building.</p> <ol style="list-style-type: none"> <li>1. Phase One (1) would includes building a two (2) story addition to move occupants around for renovation work at other sections of the building.</li> <li>2. This option will require 82,000 gross square feet of new construction and 87,000 gross square feet of renovations to the existing building.</li> <li>3. The building will be occupied during the work.</li> </ol>	<p>Record</p>
	<p><b>11/25/19 Update – Estimated to cost \$101,000,000.00 to \$106,000,000.00. Duration will be approximately forty-eight (48) months (4 years).</b></p>	<p>Record/ Close</p>
	<p>Option 6 – Grade 5 thru 8 – Addition to / Renovation of the existing building. (Mr. Randell noted that this option is not advantageous.)</p> <ol style="list-style-type: none"> <li>1. This option will require 156,000 gross square feet of new construction and 13,000 square feet of renovation work to the existing building.</li> <li>2. Temporary modular swing space would be required. Mr. Tavares noted that modular spaces are not reimbursable by the MSBA.</li> </ol>	<p>Record</p>
	<p><b>11/25/19 Update – Estimated to cost \$98,000,000.00 to \$103,000,000.00. Duration will be approximately fifty-two (52) months (4 years and 4 months).</b></p>	<p>Record/ Close</p>
	<p>Option 7 – Grade 5 thru 8 – New Construction (Similar to Grade 6 thru 8 new construction option).</p> <ol style="list-style-type: none"> <li>1. Mr. Randell noted that there is buildable area towards Brayton Avenue and that this option is the most sustainable and most efficient option. It also resolves site issues and expands site amenities.</li> <li>2. Mr. Randell noted that this option has the least impact to the town and the community.</li> </ol>	<p>Record</p>
	<p><b>11/25/19 Update – Estimated to cost \$95,000,000.00 to \$100,000,000.00. Duration will be approximately thirty-six (36) months (3 years).</b></p>	<p>Record</p>

II NEW BUSINESS ITEMS			
No.	Date	Issues	Action
15.1	11/25/19	<p>CM @ Risk vs. Design/Bid/Build Procurement Approach</p> <p>Mr. Scanlon asked why Construction Management at Risk (CM @ Risk) under MGL 149A procurement approach is an exclusion. Ai3 explained the difference between CM @ Risk under MGL149A and Design/Bid/Build procurement approach under MGL 149 to the Committee. Mr. Randell noted that Durfee High School (under construction in Fall River) used the CM @ Risk procurement approach due to the complexity of the project. CGA noted that with CM @ Risk there is a premium for additional management by the GC. CGA noted that the pros and cons of CM @ Risk procurement will be discussed with the SMS Building Committee in future meetings to see if they would like to move the project in this direction. The Committee will need to review and vote on whether they would like to move forward in this direction or move forward with Design/Bid/Build (MGL 149) approach.</p>	Ongoing
15.2	11/25/19	<p>Mr. Godet asked who owns the existing solar panels. Mr. Schoonover noted that the District owns the solar panels. It was asked if the solar panels can be re-used. Mr. Randell stated that the panels can be reused in any future project.</p>	Record/ Close
15.3	11/25/19	<p>Mr. Machado motioned to approve the meeting minutes dated November 4, 2019. Mr Scanlon noted so moved and Mr. Gabot seconded the motion. Committee unanimously voted accept the meeting minutes. Cassey Monte abstained from the vote.</p>	Record/ Close
15.4	11/25/19	<p>Mr. Machado motioned to adjourn the meeting. Mr. Scanlon noted so moved and Mr. Lima seconded the motion. Committee unanimously voted to adjourn the meeting.</p>	Record/ Close

#### ATTACHMENTS:

##### 1. Ai3 Presentation

*The proceeding represents the issues discussed and decided upon during the meeting. Please notify Steven Medeiros if any of the above are incorrect or unclear. These minutes shall be accepted as accurate unless corrections or additions are received with one week of the date of issue.*





**TOWN OF SOMERSET  
MEETING NOTICE**

Received & Posted \_\_\_\_\_ Time: \_\_\_\_\_  
\_\_\_\_\_  
Town Clerk

**Name of Board or Committee:** **JOINT MEETING: Somerset School Committee, Somerset Middle School Building Committee and Somerset Board of Selectmen**

**Date & Time of Meeting:** **Monday, December 16, 2019 at 6:00 pm**

**Location of Meeting:** **Somerset Middle School  
Auditorium  
1141 Brayton Avenue  
Somerset, MA 02726**

Robin Vaccaro, Recording Secretary, December 11, 2019  
**Clerk/Board Member posting notice & date**

Cancelled or postponed to: \_\_\_\_\_

Clerk/Board Member cancelling/postponing meeting \_\_\_\_\_

**AGENDA / LIST OF TOPICS**

Call meeting to order at \_\_\_\_\_ due notice having been posted.

Pursuant to the Open Meeting Law, any person may make an audio or video recording of this public meeting or may transmit the meeting through any medium. Attendees are therefore advised that such recordings or transmissions may be made whether perceived or unperceived by those present.

**School Committee:**

- Mr. Andrew Crook, Chair
- Mr. Christopher Godet, Vice Chair
- Mr. Victor Machado, Jr.
- Mrs. Melissa Terra
- Mr. Michael McDonald

**Administration:**

- Superintendent of Schools, Mr. Jeffrey Schoonover
- Director of Business & Finance, Mr. Ronald Tarro
- Director of Curriculum, Ms. Elizabeth Haskell
- Director of Special Education, Ms. Megan Ashton
- Director of Technology, Mr. Stephen Levesque
- Director of Buildings & Grounds, Mr. Carlos Campos

**Somerset Selectmen:**

- Mr. David Berube, Chair
- Ms. Holly McNamara
- Mr. Steven Moniz

**Middle School Building Committee:**

- Mr. Victor Machado, Jr. Chair
- Ms. Elizabeth Haskell
- Mr. Jeffrey Schoonover, Vice Chair
- Mr. Richard Brown, Town Administrator
- Ms. Holly McNamara
- Mr. Steven Moniz

- Dr. Pauline Camara
- Mr. Ronald Tarro
- Mr. Carlos Campos
- Ms. Cassey Monte
- Ms. Kathleen Byers
- Ms. Nicole Mello





## Local Actions & Approvals

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### Community Forums

**T**wo Community Forums were held on **September 25, 2019** and **November 13, 2019** to discuss the Somerset Middle School Project, the MSBA Process, the existing conditions of the current middle school, the analysis of the three existing elementary schools, the options considered, and the overall educational vision. The handouts identifying the discussion topics for both Community Forums are included in this section.



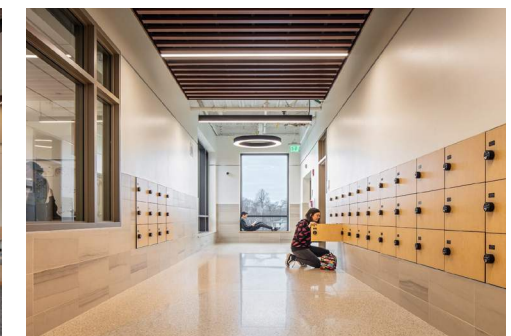
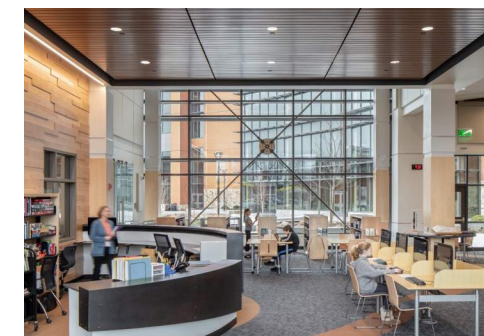
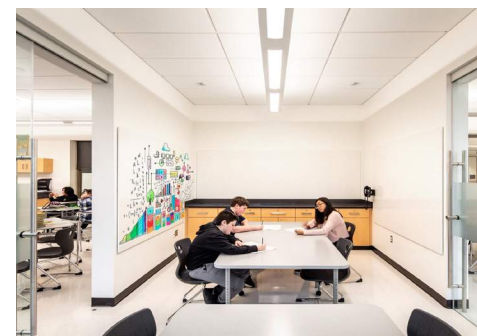
Somerset Middle School  
Community Forum #1  
September 25, 2019

# SOMERSET MIDDLE SCHOOL

## Community Forum #1



- Welcome & Introductions
- MSBA Grant Process Overview
- Project Timeline: Upcoming Milestones & Dates
- Evaluation of Existing Elementary School Enrollments
- Evaluation of Existing Middle School Conditions
- Next Steps
- Community Feedback, Questions, and Answers
- Ways to Stay Connected



<http://www.somersetschools.org/District-Info/Somerset-Middle-School-Building-Project/index.html>





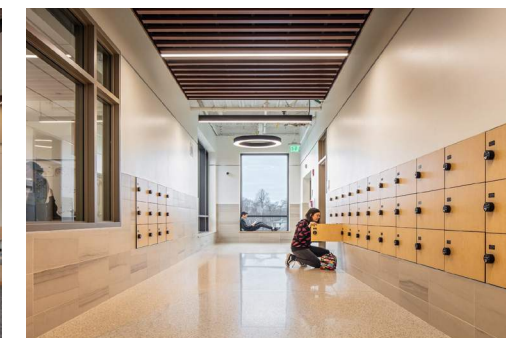
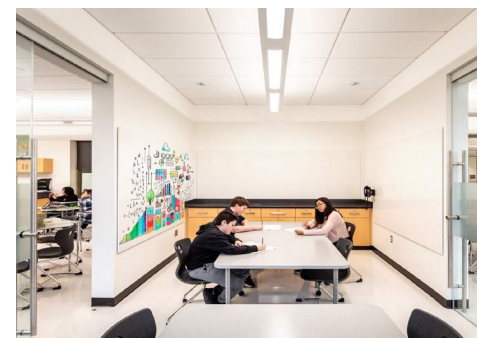
Somerset Middle School  
Community Forum #2  
November 13, 2019

# SOMERSET MIDDLE SCHOOL

## Community Forum #2



- Welcome & Introductions
- MSBA Grant Process Overview
- Project Timeline: Upcoming Milestones & Dates
- Educational Visioning Workshops
- Programming Summary
- Assessment, Testing, and Investigation Activities
- Existing Somerset Middle School Site Analysis and Site Educational Opportunities
- Town-wide Economic Master Plan Middle School Project Integration
- Preliminary Evaluation of Alternatives
- Next Steps
- Community Feedback, Questions, and Answers
- Ways to Stay Connected



<http://www.somersetschools.org/District-Info/Somerset-Middle-School-Building-Project/index.html>





## Appendix A

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### Statement of Interest



**ATTACHMENT A - ORIGINAL STATEMENT OF INTEREST SUBMITTAL - MARCH 9, 2017**

Name of School	Somerset Middle School
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## Massachusetts School Building Authority

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School District SomersetDistrict Contact Lindsey M Albernaz TEL: (508) 324-3100Name of School Somerset Middle SchoolSubmission Date 3/27/2017**SOI CERTIFICATION**

To be eligible to submit a Statement of Interest (SOI), a district must certify the following:

- The district hereby acknowledges and agrees that this SOI is NOT an application for funding and that submission of this SOI in no way commits the MSBA to accept an application, approve an application, provide a grant or any other type of funding, or places any other obligation on the MSBA.
- The district hereby acknowledges that no district shall have any entitlement to funds from the MSBA, pursuant to M.G.L. c. 70B or the provisions of 963 CMR 2.00.
- The district hereby acknowledges that the provisions of 963 CMR 2.00 shall apply to the district and all projects for which the district is seeking and/or receiving funds for any portion of a municipally-owned or regionally-owned school facility from the MSBA pursuant to M.G.L. c. 70B.
- The district hereby acknowledges that this SOI is for one existing municipally-owned or regionally-owned public school facility in the district that is currently used or will be used to educate public PreK-12 students and that the facility for which the SOI is being submitted does not serve a solely early childhood or Pre-K student population.
- After the district completes and submits this SOI electronically, the district must sign the required certifications and submit one signed original hard copy of the SOI to the MSBA, with all of the required documentation described under the "Vote" tab, on or before the deadline.
- The district will schedule and hold a meeting at which the School Committee will vote, using the specific language contained in the "Vote" tab, to authorize the submission of this SOI. This is required for cities, towns, and regional school districts.
- Prior to the submission of the hard copy of the SOI, the district will schedule and hold a meeting at which the City Council/Board of Aldermen or Board of Selectmen/equivalent governing body will vote, using the specific language contained in the "Vote" tab, to authorize the submission of this SOI. This is not required for regional school districts.
- On or before the SOI deadline, the district will submit the minutes of the meeting at which the School Committee votes to authorize the Superintendent to submit this SOI. The District will use the MSBA's vote template and the vote will specifically reference the school and the priorities for which the SOI is being submitted. The minutes will be signed by the School Committee Chair. This is required for cities, towns, and regional school districts.
- The district has arranged with the City/Town Clerk to certify the vote of the City Council/Board of Aldermen or Board of Selectmen/equivalent governing body to authorize the Superintendent to submit this SOI. The district will use the MSBA's vote template and submit the full text of this vote, which will specifically reference the school and the priorities for which the SOI is being submitted, to the MSBA on or before the SOI deadline. This is not required for regional school districts.
- The district hereby acknowledges that this SOI submission will not be complete until the MSBA has received all of the required vote documentation and certification signatures in a format acceptable to the MSBA. If Priority 1 is selected, your Statement of Interest will not be considered complete unless and until you provide the required engineering (or other) report, a professional opinion regarding the problem, and photographs of the problematic area or system.

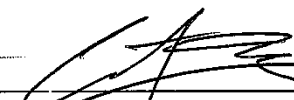
Name of School	Somerset Middle School
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<b>Chief Executive Officer *</b>	<b>School Committee Chair</b>	<b>Superintendent of Schools</b>
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Richard Brown	Arastou Mahjoory	Jeffrey A. Schoonover
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Town Manager







(signature)

(signature)

(signature)

Date 3/26/17

Date 3/27/17

Date 3-28-17

\* Local chief executive officer: In a city or town with a manager form of government, the manager of the municipality; in other cities, the mayor; and in other towns, the board of selectmen unless, in a city or town, some other municipal office is designated to the chief executive office under the provisions of a local charter. Please note, in districts where the Superintendent is also the Local Chief Executive Officer, it is required for the same person to sign the Statement of Interest Certifications twice. Please do not leave any signature lines blank.

Name of School Somerset Middle School

## Massachusetts School Building Authority

School District Somerset

District Contact Lindsey M Albernaz TEL: (508) 324-3100

Name of School Somerset Middle School

Submission Date 3/27/2017

### Note

We have submitted the Closed Schools form for Wilbur Elementary in addition to this Statement of Interest for Somerset Middle School.

### The following Priorities have been included in the Statement of Interest:

- Replacement or renovation of a building which is structurally unsound or otherwise in a condition seriously jeopardizing the health and safety of school children, where no alternative exists.
- Elimination of existing severe overcrowding.
- Prevention of the loss of accreditation.
- Prevention of severe overcrowding expected to result from increased enrollments.
- Replacement, renovation or modernization of school facility systems, such as roofs, windows, boilers, heating and ventilation systems, to increase energy conservation and decrease energy related costs in a school facility.
- Short term enrollment growth.
- Replacement of or addition to obsolete buildings in order to provide for a full range of programs consistent with state and approved local requirements.
- Transition from court-ordered and approved racial balance school districts to walk-to, so-called, or other school districts.

### SOI Vote Requirement

I acknowledge that I have reviewed the MSBA's vote requirements for submitting an SOI which are set forth in the Vote Tab of this SOI. I understand that the MSBA requires votes from specific parties/governing bodies, in a specific format using the language provided by the MSBA. Further, I understand that the MSBA requires certified and signed vote documentation to be submitted with the SOI. I acknowledge that my SOI will not be considered complete and, therefore, will not be reviewed by the MSBA unless the required accompanying vote documentation is submitted to the satisfaction of the MSBA.

**Potential Project Scope:**      Repair Project  
  Windows/ Doors  
  HVAC/ Boiler

**Is this SOI the District Priority SOI?**      YES

**School name of the District Priority SOI:**      2017 Somerset Middle School

**Is this part of a larger facilities plan?**      NO

Name of School Somerset Middle School

If "YES", please provide the following:

Facilities Plan Date:

Planning Firm:

Please provide an overview of the plan including as much detail as necessary to describe the plan, its goals and how the school facility that is the subject of this SOI fits into that plan:

Please provide the current student to teacher ratios at the school facility that is the subject of this SOI: 13 students per teacher

Please provide the originally planned student to teacher ratios at the school facility that is the subject of this SOI: 20 students per teacher

Does the District have a Master Educational Plan that includes facility goals for this building and all school buildings in District? NO

Does the District have related report(s)/document(s) that detail its facilities, student configurations at each facility, and District operational budget information, both current and proposed? NO

If "NO", please note that:

If, based on the SOI review process, a facility rises to the level of need and urgency and is invited into the Eligibility Period, the District will need to provide to the MSBA a detailed Educational Plan for not only that facility, but all facilities in the District in order to move forward in the MSBA's school building construction process.

Is there overcrowding at the school facility? NO

If "YES", please describe in detail, including specific examples of the overcrowding.

Has the district had any recent teacher layoffs or reductions? NO

If "YES", how many teaching positions were affected? 0

At which schools in the district?

Please describe the types of teacher positions that were eliminated (e.g., art, math, science, physical education, etc.).

Has the district had any recent staff layoffs or reductions? NO

If "YES", how many staff positions were affected? 0

At which schools in the district?

Please describe the types of staff positions that were eliminated (e.g., guidance, administrative, maintenance, etc.).

Please provide a description of the program modifications as a consequence of these teacher and/or staff reductions, including the impact on district class sizes and curriculum.

Does Not Apply

Please provide a detailed description of your most recent budget approval process including a description of any budget reductions and the impact of those reductions on the district's school facilities, class sizes, and educational program.

The FY18 budget process was finalized for Somerset Public Schools on March 2, 2017. We are now awaiting a vote at the Annual Town Meeting on May 15, 2017. Our overall FY18 operating budget is \$19,211,871 which is an increase of approximately \$357,000 or a 1.9% increase over the FY17 voted budget. The focused areas creating the increases are contractual salaries, special education tuition's and transportation as well as technology purchases. There was no reductions to the budget as a result of the improvements needed at the Somerset Middle School.



Name of School Somerset Middle School

## General Description

**BRIEF BUILDING HISTORY:** Please provide a detailed description of when the original building was built, and the date(s) and project scopes(s) of any additions and renovations (maximum of 5000 characters).

Somerset Middle School was originally constructed with final completion in 1965. The original size of the building was 95,000 square feet and with the addition of the 6th grade wing of approximately 32,000 square feet added 1969, the total square footage is approximately 127,000 square feet. The building currently has a design population to hold 721 students in grades six through eight. In 1997, the underground storage oil tanks were removed. There was a brick repair project in 1997. In 1999, one of the original four boilers was replaced with a AirCo Benchmark boiler to increase efficiency of the existing HVAC system. In 2004, the entire roof of the building was replaced with a PVC roof. The condition of that roof is currently adequate and in good shape. There have been no major renovations to the building since 1969 with the exception of the new roof.

**TOTAL BUILDING SQUARE FOOTAGE:** Please provide the original building square footage PLUS the square footage of any additions.

127000

**SITE DESCRIPTION:** Please provide a detailed description of the current site and any known existing conditions that would impact a potential project at the site. Please note whether there are any other buildings, public or private, that share this current site with the school facility. What is the use(s) of this building(s)? (maximum of 5000 characters).

The Somerset Middle School is located on 26.2 acres of property and does not share the property with any other facilities or departments in the Town of Somerset. There are no known conditions that would impact a potential project at this site.

**ADDRESS OF FACILITY:** Please type address, including number, street name and city/town, if available, or describe the location of the site. (Maximum of 300 characters)

1141 Brayton Avenue, Somerset MA 02726

**BUILDING ENVELOPE:** Please provide a detailed description of the building envelope, types of construction materials used, and any known problems or existing conditions (maximum of 5000 characters).

The Somerset Middle School consists of a brick veneer, steel construction roof, PVC roof membrane and single pane windows throughout the entire building. There are specific areas of the building that have original 9"x9" asbestos tile flooring and the bleachers and gymnasium wood floor are also original to the building. Currently the windows are not energy efficient and provide for much draft and heat loss throughout the building resulting in higher than necessary utility expenditures. The gymnasium floor, because it is original to the building, has started to buckle and become uneven in certain areas even after annual maintenance attempts. In specific classrooms and hallways areas, the original asbestos 9"x9" tiles have become worn and lifted causing asbestos concern for the health of the building. The girls and boys locker room is in need of renovation as both the lockers, flooring, showers, fixtures and bathrooms are original to the 1965 building.

**Has there been a Major Repair or Replacement of the EXTERIOR WALLS?** NO

**Year of Last Major Repair or Replacement:(YYYY)** 1965

**Description of Last Major Repair or Replacement:**

N/A

**Roof Section** A

Name of School	Somerset Middle School
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**Is the District seeking replacement of the Roof Section?** NO

**Area of Section (square feet)** 98000

**Type of ROOF (e.g., PVC, EPDM, Shingle, Slate, Tar & Gravel, Other (please describe))**  
PVC

**Age of Section (number of years since the Roof was installed or replaced)** 12

**Description of repairs, if applicable, in the last three years. Include year of repair:**  
N/A

**Roof Section B**

**Is the District seeking replacement of the Roof Section?** NO

**Area of Section (square feet)** 39000

**Type of ROOF (e.g., PVC, EPDM, Shingle, Slate, Tar & Gravel, Other (please describe))**  
PVC

**Age of Section (number of years since the Roof was installed or replaced)** 47

**Description of repairs, if applicable, in the last three years. Include year of repair:**  
N/A

**Window Section A**

**Is the District seeking replacement of the Windows Section?** YES

**Windows in Section (count)** 134

**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**  
Single Pane sliding windows (4' x 6' wide) throughout the entire building.

**Age of Section (number of years since the Windows were installed or replaced)** 51

**Description of repairs, if applicable, in the last three years. Include year of repair:**  
There have been no repairs, other than routine cleaning, to the original windows installed in 1965.

**Window Section B**

**Is the District seeking replacement of the Windows Section?** YES

**Windows in Section (count)** 32

**Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))**  
Single pane sliding windows are continual throughout the building, originally constructed in 1965.

**Age of Section (number of years since the Windows were installed or replaced)** 47

**Description of repairs, if applicable, in the last three years. Include year of repair:**  
No repairs have been completed for these windows originally installed in 1969.

**MECHANICAL and ELECTRICAL SYSTEMS: Please provide a detailed description of the current mechanical and electrical systems and any known problems or existing conditions (maximum of 5000 characters).**

The Somerset Middle School currently houses 11 air handlers for the heating of the building. The school has 39 exhaust fans which are all original to the 1965 building. The air handlers have started to deteriorate over the past ten years causing air quality concerns. The air conditioner unit in the main office of the building has only one to two years remaining as being functional. The current electrical system is original to the building but does provide some concern for safety in the 1969 section of the building. Many extension cords are used to run power between classrooms and floor plugs in the 6th grade area have a history of sparking. The conduit pipes running under the boiler room floor are rotting away which causes shortages in electricity and power failures throughout the building.

**Boiler Section 1**

**Is the District seeking replacement of the Boiler?** YES

**Is there more than one boiler room in the School?** NO

**What percentage of the School is heated by the Boiler?** 100

**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Gas only. The boilers were converted in 1997 when the storage oil tanks were removed from the building.

Name of School	Somerset Middle School
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**Age of Boiler (number of years since the Boiler was installed or replaced)** 51

**Description of repairs, if applicable, in the last three years. Include year of repair:**

There have been no repairs to the three original boilers in the past three years other than annual maintenance testing.

**Boiler Section** 2

**Is the District seeking replacement of the Boiler?** YES

**Is there more than one boiler room in the School?** NO

**What percentage of the School is heated by the Boiler?** 100

**Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other)**

Gas boiler

**Age of Boiler (number of years since the Boiler was installed or replaced)** 17

**Description of repairs, if applicable, in the last three years. Include year of repair:**

The Somerset Middle School purchased a AirCo Benchmark boiler to supplement the three original boilers. Currently the Benchmark is the lead boiler of the building, however the original boilers are utilized as backup when necessary in the colder months. The Benchmark has needed maintenance of parts and has a rotted exhaust pipe.

**Has there been a Major Repair or Replacement of the HVAC SYSTEM?** YES

**Year of Last Major Repair or Replacement:(YYYY)** 1999

**Description of Last Major Repair or Replacement:**

AirCo Benchmark boiler was purchased.

**Has there been a Major Repair or Replacement of the ELECTRICAL SERVICES AND DISTRIBUTION SYSTEM?** YES

**Year of Last Major Repair or Replacement:(YYYY)** 1965

**Description of Last Major Repair or Replacement:**

The Somerset Middle School has recently completed ab=n installation of a 350,000 kWh annual production solar panel system, funded by a State of Massachusetts Department of Energy Resources grant. No other major repairs or replacements have been performed on the electrical and distribution system.

**BUILDING INTERIOR: Please provide a detailed description of the current building interior including a description of the flooring systems, finishes, ceilings, lighting, etc. (maximum of 5000 characters).**

The floors consist of 9"x9" VCT tile in the 1965 sections of the building and 12"x12" VCT tile in the 1969 section. The walls are plastered with brick walls in the hallways. The ceilings are 2'x4' tiles and the majority of the lighting consists of 4' fluorescent bulbs.

**PROGRAMS and OPERATIONS: Please provide a detailed description of the current programs offered and grades served, and indicate whether there are program components that cannot be offered due to facility constraints, operational constraints, etc. (maximum of 5000 characters).**

Somerset Middle School currently educates students in grade 6 through grade 8. Educational programming includes English Language Arts, Social Studies, Mathematics, Science, Fine Arts, Foreign Language and Technology. The seasonal temperature changes and the buildings ability to regulate these classroom temperatures does have an effect on student learning. The causes of the temperature regulation include inefficient windows and older ventilation systems related to the air handlers and exhaust system. The temperature fluctuations does have an effect on student and teacher attendance due to low air quality throughout the building during parts of the school year. The air quality effects the ability to breathe clearly and focus on instruction. There are no limitations on program components for the Somerset Middle School due to these deficiencies, however, a quality ventilation system and upgraded boilers would allow for better air circulation throughout the 52 year old building.

**CORE EDUCATIONAL SPACES: Please provide a detailed description of the Core Educational Spaces within the facility, a description of the number and sizes (in square feet) of classrooms, a description of science**

Name of School	Somerset Middle School
----------------	------------------------

**rooms/labs including ages and most recent updates, a description of the cafeteria, gym and/or auditorium and a description of the media center/library (maximum of 5000 characters).**

The Core Educational Spaces (classrooms) within the building are original to the building and have not been updated. There are 45 classrooms, including science rooms/lab through the buildings. The majority of classrooms are 30'x30' classrooms with capacity to fit between 25 and 30 students with desks. The cafeteria is an open space with approximately seating capacity of 300 students. The cafeteria consists of 12"x12" VCT tiles and has one wall of sliding windows that opens up to a shared courtyard with the library area. The gymnasium is the size of two full sized basketball courts with original bleacher systems installed on both sides of the courts. The auditorium has the capacity to seat 900 members, with the original hardwood stage and original audience chairs. The library has the capacity to fit 100 students between the computer lab and the collaborative work spaces. There is one wall of sliding windows that shows the courtyard shared with the cafeteria.

**CAPACITY and UTILIZATION: Please provide a detailed description of the current capacity and utilization of the school facility. If the school is overcrowded, please describe steps taken by the administration to address capacity issues. Please also describe in detail any spaces that have been converted from their intended use to be used as classroom space (maximum of 5000 characters).**

The Somerset Middle School does not currently have an overcrowding issue at the moment, however much of the space is fully utilized during the school day. There are adequate classrooms for instruction as well as non-standard classroom areas. The building does have three computer labs that are fully utilized, a woodworking shop for our Industrial Arts courses and a lecture hall room that is currently not be utilized due to lighting and soundproofing issues.

**MAINTENANCE and CAPITAL REPAIR: Please provide a detailed description of the district's current maintenance practices, its capital repair program, and the maintenance program in place at the facility that is the subject of this SOI. Please include specific examples of capital repair projects undertaken in the past, including any override or debt exclusion votes that were necessary (maximum of 5000 characters).**

The Somerset Middle School does not have a formal maintenance plan. The maintenance of the boilers, electrical and plumbing system is contracted out with various vendors. These vendors perform annual maintenance and are called in as needed throughout the school year. Somerset Public Schools employs three full time maintenance workers to provide day to day maintenance on our three Elementary Schools and one Middle School within the Somerset Public School District. These staff members work predominately with cosmetic maintenance repairs as well as HVAC maintenance. There is currently an updated capital improvement plan, which includes various repairs, refurbishments and replacements of equipment in our four individual schools. Other than the roof replacement in 2004, there have been no other major renovations to the building. There has not been a override or debt exclusion vote in the Town of Somerset for the Somerset Public School Department.

Name of School Somerset Middle School

**Priority 5**

***Question 1: Please provide a detailed description of the issues surrounding the school facility systems (e.g., roof, windows, boilers, HVAC system, and/or electrical service and distribution system) that you are indicating require repair or replacement. Please describe all deficiencies to all systems in sufficient detail to explain the problem.***

The Somerset Middle School was originally built in 1965 with an expansion for the 6th grade wing in 1969. The majority of the building structure is original to the building and is in need of upgrades and modernization. The single pane windows are extremely energy inefficient, stained with various color and some do not function properly such as locking, opening and closing. The four boilers, with the exception of the AirCo Benchmark, are original to the building and do not function efficiently. One boiler is completely off line and has not been in use since 1999.

Name of School Somerset Middle School

**Priority 5**

***Question 2: Please describe the measures the district has already taken to mitigate the problem/issues described in Question 1 above.***

Other than day to day maintenance and cleaning of the windows, this does not correct the problem of energy inefficiency or provide clear visibility throughout the building. There has not been much appetite in the past to put taxpayer dollars into the Somerset Middle School and now that the building is over fifty years old, it is a commitment to the School Department's Administration and other community members to correct the problem before they become major issues beyond repair and significantly alter the teaching and learning process of our Middle School students.

Name of School Somerset Middle School

**Priority 5**

***Question 3: Please provide a detailed explanation of the impact of the problem/issues described in Question 1 above on your district's educational program. Please include specific examples of how the problem prevents the district from delivering the educational program it is required to deliver and how students and/or teachers are directly affected by the problem identified.***

Because of the boiler inefficiency, temperatures in the classroom can sometimes range from high 70 degrees to low 60 degrees depending external weather conditions. The boilers cannot always support regulating the temperatures during the colder months of the year. In the warmer months, there is not adequate ventilation due to the age of the exhaust system which provide for poor air quality. The windows, because they are single pane, allow for the loss of heat during the colder months. Faculty and staff and sometimes forced to adjust their classroom setup to accommodate the loss of heat during the colder months and ventilation issues during the warmer months. This has a direct effect on classroom instruction as air quality and temperature regulation do not provide an environment where learning is the priority. To have successful teaching and learning, students must be able to focus on what they are learning and because comfort level may be less than adequate, the learning process can be altered and less successful fr our students.

Name of School Somerset Middle School

**Priority 5**

***Question 4: Please describe how addressing the school facility systems you identified in Question 1 above will extend the useful life of the facility that is the subject of this SOI and how it will improve your district's educational program.***

The Somerset Middle School is structurally sound, however, because of the age of the building and limited renovations and repairs performed since the original construction, the building is in need of modernization. The windows are original to the building and create temperature control issues within the classroom. Because some of them are either inefficient, broken or stained does not promote a great environment for learning. Replacements of windows would extend the useful life of the building because it would prevent moisture from building in the classroom and other instructional areas. Proper ventilation and temperature control could also extend the useful life of the building because air quality will become improved. The goal is to extend the life of the Somerset Middle School so that it can continue to be utilized for future students. The Town of Somerset recently regionalized with the Town of Berkley in 2011 to build a new regional high school. The old high school was not repaired or renovated as needed by the community over the years and was in such disrepair that the most viable option was to build a new high school. The Town of Somerset, while regionalized with the Town of Berkley for the high school only, still does have a responsibility to maintain the Somerset Middle School and the three elementary buildings. The Somerset Middle School is a functional building, but without necessary renovations and refurbishments, the useful life of the building will be limited.

Please also provide the following:

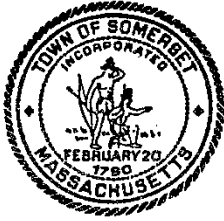
**Have the systems identified above been examined by an engineer or other trained building professional?:** NO

**If "YES", please provide the name of the individual and his/her professional affiliation (maximum of 250 characters):**

**The date of the inspection:**

**A summary of the findings (maximum of 5000 characters):**





# BOARD OF SELECTMEN

TOWN OF SOMERSET

MASSACHUSETTS

02726

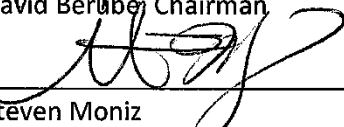
TOWN OFFICE BUILDING - WOOD AND COUNTY STREETS

## Resolution Authorizing the Superintendent of Schools to Submit to MA School Building Authority the Statement of Interest, Dated March 23, 2017, for the Somerset Middle School


**RESOLVED:** Having convened in an open meeting on Wednesday, March 15, 2017, prior to the closing date, the Board of Selectmen of Somerset, in accordance with its charter, by-laws, and ordinances, has voted to authorize the Superintendent to submit to the Massachusetts School Building Authority the Statement of Interest dated March 23, 2017 for the Somerset Middle School located at 1141 Brayton Avenue, Somerset MA 02726 which describes and explains the following deficiencies and the priority category(s) for which an application may be submitted to the Massachusetts School Building Authority in the future: replacement of external windows, external doors and boiler systems at the Middle School to increase energy conservation and decrease energy related costs in the Somerset Middle School; and hereby further specifically acknowledges that by submitting this Statement of Interest Form, the Massachusetts School Building Authority in no way guarantees the acceptance or the approval of an application, the awarding of a grant or any other funding commitment from the Massachusetts School Building Authority, or commits the City/Town/Regional School District to filing an application for funding with the Massachusetts School Building Authority.

### SOMERSET BOARD OF SELECTMEN

  
\_\_\_\_\_  
David Beruber, Chairman

  
\_\_\_\_\_  
Steven Moniz

  
\_\_\_\_\_  
Holly McNamara

True Copy Attest:   
\_\_\_\_\_  
Dolores Berge, Town Clerk

**SOMERSET SCHOOL COMMITTEE MEETING  
OPEN SESSION MINUTES - March 23, 2017  
School Committee Room, North Elementary School**

Mr. Mahjoory called the meeting to order at 6:30 p.m.

Chairman Mahjoory stated, "Let the record show that this meeting is being electronically recorded and if anyone in the audience also wishes to electronically record this meeting, you should notify the Committee at this time."

**Members Present:**

Mr. Arastou Mahjoory, Chair  
Mr. Michael Botelho, Vice Chair  
Mrs. Lori Rothwell  
Mr. Victor Machado, Jr.  
Mrs. Melissa Terra

**Also Present:**

Mr. Jeffrey Schoonover, Superintendent  
Mrs. Lindsey Albernaz, Business Manager  
Mrs. Elizabeth Haskell, Director of Curriculum  
Mrs. Robin Vaccaro, Recording Secretary

Pledge of Allegiance

Emma Guillotte sang *God Bless America*.

**Mr. Mahjoory entertained a motion to accept the Open Session minutes of March 2, 2017. Mr. Machado moved the motion. Mr. Botelho seconded. The Committee voted 4-0-1 in favor of the motion. Mrs. Terra abstained as she was not present at the meeting.**

**Communication:** Somerset Middle School student, Emma Guillotte, explained why she became a *Stomp Out Bullying* ambassador. She said she has been spreading her anti-bullying message at the middle school and would like to expand to the elementary schools. She showed the Committee the bracelets and posters she uses to promote kindness. The Committee commended Emma for her efforts. Mr. Mahjoory said he would make a donation to her cause. Mr. Machado said that he would like to see one of her presentations and noted that elementary students would benefit more from hearing about anti-bullying from another student rather than an adult.

Ms. Haskell updated the Committee on the professional development offerings in March during the professional development early release day as well as a workshop that she and some staff members attended yesterday on social/emotional learning. The Committee said they appreciate the updates and these help with explaining to parents why there are so many professional development days. Mr. Botelho asked how many professional development days other districts have each year. Mrs. Terra suggested that additional days be added next year and she said that if a set schedule, such as second Friday of the month, was done it would be easier for parents to plan. Mr. Machado said he would prefer to see more at the beginning of the school year rather than at the end of the year. Mr. Schoonover said that the leadership team has been working on developing ideas for professional development over the next several years. He also said that a survey was sent to teachers last week and the teachers identified the same key areas as administration. Mr. Schoonover said that some of the professional development days would be less formal and be more of collaboration time amongst teachers.

Mr. Schoonover said he attended his last meeting of the Superintendent Induction Program today and he thanked the Committee for their support in allowing him to attend because it has been very helpful and rewarding. He said the Wellness Committee met yesterday and was well-represented by teachers and parents of all levels. He said they reviewed the local Wellness Policy and discussed topics for future meetings. They have decided to break into two groups: one focusing on social/emotional learning and the other on physical education and nutrition.

Mr. Schoonover said that the high school Anti-Bullying Coalition has visited all the elementary schools. He said they put on skits and talk to students about what it means to be kind in a very effective way.

**Public Input:** Somerset Teachers Association Vice President, LuAnn Pratas, asked on behalf of the STA that the bargaining process begin. Mr. Kucikas commented on how eloquent Emma was. He also said that he was shocked that Mr. Mahjoory would not be on the Committee after the election in May. He said this is one of the best groups of Committee members he has seen and they have done a lot for the district. He also commented that it was sad that more people do not attend the meetings to see what goes on.

**Budget/Financial Matters:** Mr. Machado said this was the eleventh time he had faced the Advisory and Finance Committee to discuss the preliminary budget and this was the first time he had seen them leave satisfied with the information administration put together. He also said the administration did an excellent job of being open and transparent and in bringing the increase amount down.

**Mr. Mahjoory entertained a motion to approve the final net budget for fiscal year 2017-2018 for the Somerset Public Schools of \$19,211,871. Mr. Machado moved the motion. Mr. Botelho seconded. The Committee voted 5-0 in favor of the motion.**

Mrs. Albernaz said that she and Director of Buildings and Grounds, Carlos Campos, had met with the Selectmen last Wednesday and they reviewed the Massachusetts School Building Authority Statement of Interest (SOI) request for repairs at Somerset Middle School. She said the SOI must be submitted by April 7 and then the statements are vetted and site visits for potential projects are done and schools are notified of approval sometime in December or January. Mrs. Albernaz said a site visit was done in October but the school wasn't selected but they did see the condition of the building. Mrs. Terra asked if any projects had ever been approved for the district. Mr. Campos said they partially supported a roof project in 2004.

**Mr. Mahjoory entertained a motion that be it resolved having convened in an open meeting on Thursday, March 23, 2017, prior to the closing date, the School Committee of Somerset, in accordance with its charter, by-laws and ordinances, has voted to authorize the Superintendent to submit to the Massachusetts School Building Authority the Statement of Interest dated March 23, 2017 for the Somerset Middle School located at 1141 Brayton Avenue, Somerset, MA 02726 which describes and explains the following deficiencies and the priority category(s) for which an application may be submitted to the Massachusetts School Building Authority in the future: replacement of external windows, external doors and boiler systems at the Middle School to increase energy conservation and decrease energy related costs in the Somerset Middle School; and hereby further specifically acknowledges that by submitting this Statement of Interest Form, the Massachusetts School Building Authority in no way guarantees the acceptance or the approval of an application, the awarding of a grant or any other funding commitment from the Massachusetts School Building Authority, or commits the City/Town/Regional School District to filing an application for funding with the Massachusetts School Building Authority. Mr. Machado moved the motion. Mrs. Rothwell seconded. The Committee voted 5-0 in favor of the motion.**

**Consent Agenda: Mr. Mahjoory entertained a motion to accept a donation of 5 Epipens and 3 Epipens Jr. from Mylan Pharmaceuticals as part of the Epipens4schools program. Mr. Machado moved the motion. Mrs. Terra seconded. The Committee voted 5-0 in favor of the motion.**

**New Business:** Mr. Schoonover shared his goals for the 2017 calendar year with the Committee. The four goals are District Climate, STEAM and 21<sup>st</sup> Century Skills, Family Engagement and Communication and Technology Planning. Mr. Mahjoory said that he thought goals should remain the same during a 3-5 year timeframe to get things to where they need to be. Mr. Schoonover said that this year he will be building on what is already in place. He said that a scope and sequence needs to be developed for science and math. He also said that the technology program at the middle school will be modernized to include some robotics components as well as some coding and computer science. Mr. Schoonover said that strategic development and implementation will always be a goal. He said that he wants to be more visible in schools and communicate more with staff and families. Mr. Machado said he would like to see elementary grades be available online and he would like teachers to be encouraged to have office hours. Mrs. Terra suggested a video newsletter to families. Mr. Schoonover said that once the district has the technology plan infrastructure piece it will allow us to have a better vision for the financial component, be better for developing projections and there will be fewer surprises during the budget process.

Mr. Schoonover said that he would like to defer the overview of the Star Reading data because he needed more time to compile the data. Mrs. Terra said she would also like to see the data compared to MCAS or PARCC to see where we measure up. Mr. Schoonover said the measurements are taken at the end of each quarter at the middle school and at the end of fall, winter and spring at the elementary levels in order to track growth and compare from year to year.

Mr. Mahjoory noted that the Committee needed to appoint the Superintendent annually to the READS Collaborative Board of Directors.

**Mr. Mahjoory entertained a motion pursuant to Chapter 40, Section 4E, as amended by Chapter 43 of the Acts of 2012, members of the Board of Directors at READS Collaborative are to be appointed annually. Jeffrey**

**Schoonover, Superintendent of Schools, is appointed to serve as the Somerset Public School District's representative on the Board of Directors of READS Collaborative, in accordance with Massachusetts General Laws Chapter 40, Section 4E as amended by Chapter 43 of the Acts of 2012 for the 2017/2018 school year. Mr. Botelho moved the motion. Mrs. Rothwell seconded. The Committee voted 5-0 in favor of the motion.**

**Unfinished Business:** Mr. Botelho and Mrs. Rothwell explained that the 504 Eligibility Guidelines and Procedures Policy was revised to ensure that all staff is adhering to 504 plans and that procedures are in place for how information is distributed. They further explained that the Bullying Prevention and Intervention Policy was updated to include current methods of reporting. The technology director has set up a dedicated anonymous phone line for bullying reporting. Mr. Schoonover said there will also be a Google form for reporting. The policy had had a second reading by the regional school committee last week and they had asked that besides the specific program for professional development that 'or another approved training program' be added and that it is noted that curriculum can be changed based on the needs of the district. The changes were noted in red on the draft version presented tonight for a second reading. Mrs. Terra said she liked the outline of disciplinary action and asked if the policy had been reviewed by the school councils. Mr. Schoonover said the draft was emailed to all families in the district for their input.

**Mr. Mahjoory entertained a motion to accept the 504 Eligibility Guidelines and Procedures Policy as presented. Mr. Botelho moved the motion. Mrs. Rothwell seconded. The Committee voted 5-0 in favor of the motion.**

**Mr. Mahjoory entertained a motion to accept the Bullying Prevention and Intervention Policy as presented with the changes in red print on pages 3 and 5. Mrs. Terra moved the motion. Mr. Botelho seconded. The Committee voted 5-0 in favor of the motion.**

**Informational Items:** The Committee congratulated the Somerset Middle School Renaissance students for the month of February: Evan Affonso, Savannah Cantelmo, Elijah Desa, Amber Dias, Keidrah Finch and Dominic Mauretti.

**Other Matters:** Mr. Machado said that although he doesn't believe in one board making public statements regarding another board it was disheartening and unacceptable to charge user fees. Mrs. Terra said that she has been vocally against user fees every year that it has been discussed. Mrs. Rothwell said that it inspiring to see students come and advocate for the sports programs at last week's preliminary budget hearing. She said the regional committee would be meeting again Monday night to discuss the budget and the final vote will be taken on March 30. Mr. Mahjoory asked Mr. Botelho and Mrs. Rothwell to let the regional committee know that himself, Mr. Machado and Mrs. Terra were against the user fees.

Mr. Machado said the Regional Planning Board had met Monday and decided to put out a Request for Proposals to consider hiring a consultant.

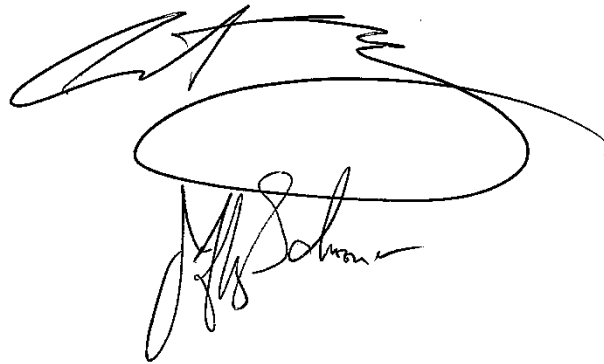
**Mr. Mahjoory entertained a motion to enter into Executive Session pursuant to Massachusetts General Laws, Chapter 30A, Section 21(a)(3) to discuss strategy with respect to collective bargaining if an open meeting may have a detrimental effect on the bargaining position of the public body and the chair so declares. The Committee would not be returning to Open Session. Mr. Machado moved the motion. Mrs. Rothwell seconded. On a roll call vote the Committee voted 5-0 in favor of the motion. Mr. Machado, aye; Mr. Botelho, aye; Mrs. Rothwell, aye; Mrs. Terra, aye and Mr. Mahjoory, aye**

Open Session adjourned at 7:58 pm.

Respectfully submitted,  
**Robin Vaccaro**  
Recording Secretary

**Documents List:**


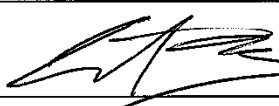

Bullying Prevention and Intervention Policy  
504 Eligibility and Procedures Policy  
MSBA SOI for SMS  
READS Collaborative Notice  
Draft Superintendent Goals for 2017  
SMS Renaissance Students for February  
March Professional Development



Name of School     Somerset Middle School

**CERTIFICATIONS**

The undersigned hereby certifies that, to the best of his/her knowledge, information and belief, the statements and information contained in this statement of Interest and attached hereto are true and accurate and that this Statement of Interest has been prepared under the direction of the district school committee and the undersigned is duly authorized to submit this Statement of Interest to the Massachusetts School Building Authority. The undersigned also hereby acknowledges and agrees to provide the Massachusetts School Building Authority, upon request by the Authority, any additional information relating to this Statement of Interest that may be required by the Authority.

Chief Executive Officer *	School Committee Chair	Superintendent of Schools
Richard Brown	Arastou Mahjoory	Jeffrey A. Schoonover
Town Manager		
		
(signature)	(signature)	(signature)
Date 3/28/17	Date 3/28/17	Date 3-28-17

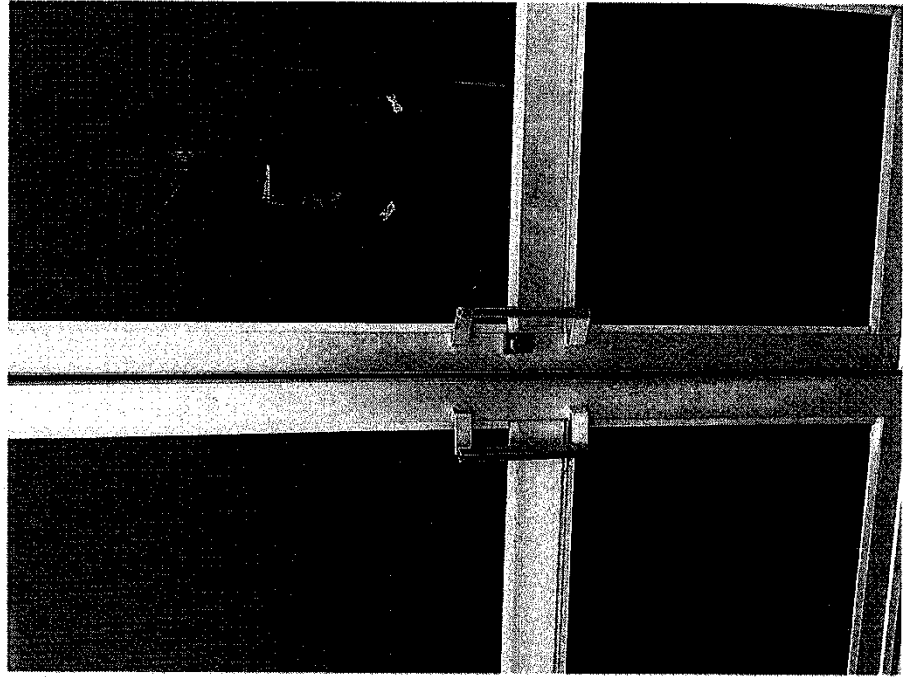
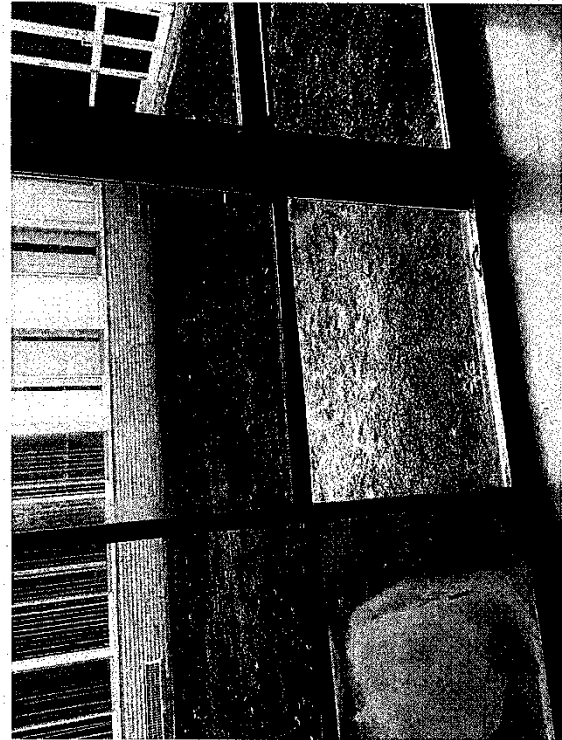
\* Local Chief Executive Officer: In a city or town with a manager form of government, the manager of the municipality; in other cities, the mayor; and in other towns, the board of selectmen unless, in a city or town, some other municipal office is designated to the chief executive office under the provisions of a local charter. Please note, in districts where the Superintendent is also the Local Chief Executive Officer, it is required for the same person to sign the Statement of Interest Certifications twice. Please do not leave any signature lines blank.

# Fiscal Year 2020

## Middle School window replacement:

- Currently single paned windows and sliders
- Extremely energy inefficient and original to building.

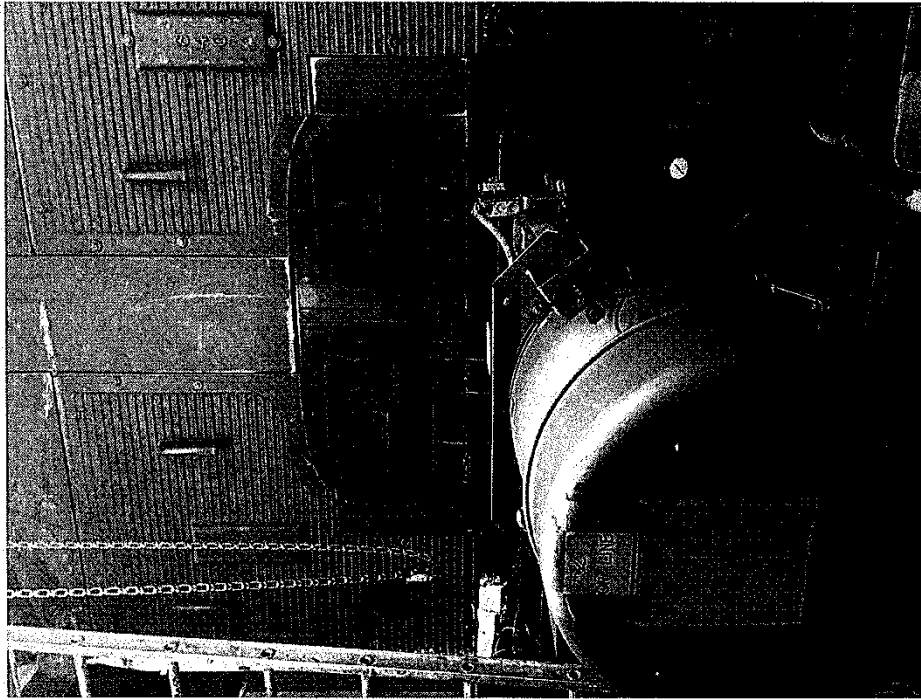
Estimate - \$275,000



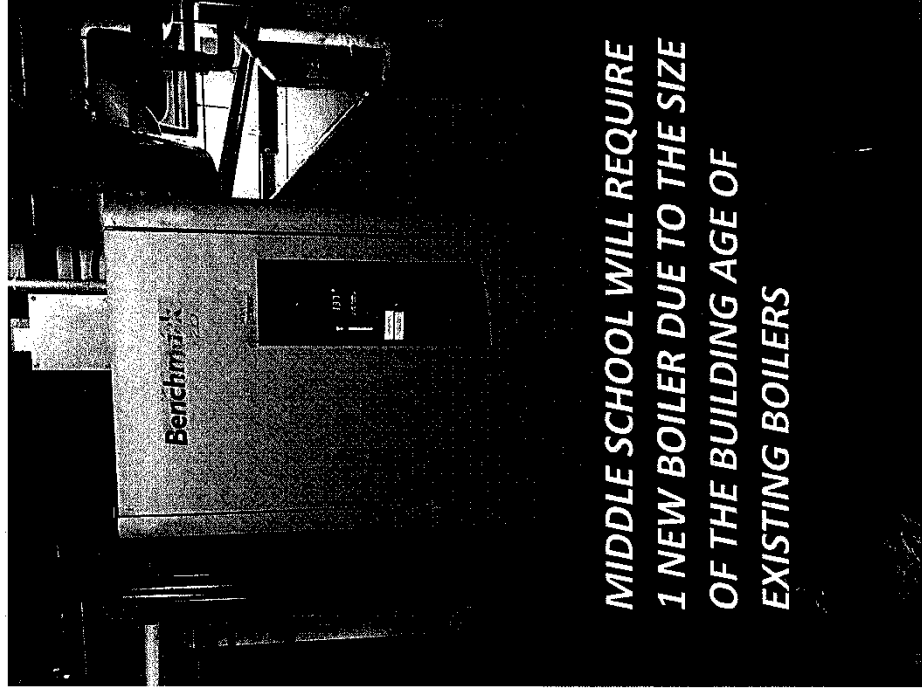
# Fiscal Year 2020

## Boiler Replacement Necessity

- 3 Original Boilers still exist with only 2 functioning.
- 1 additional newer Boiler installed in 1999.

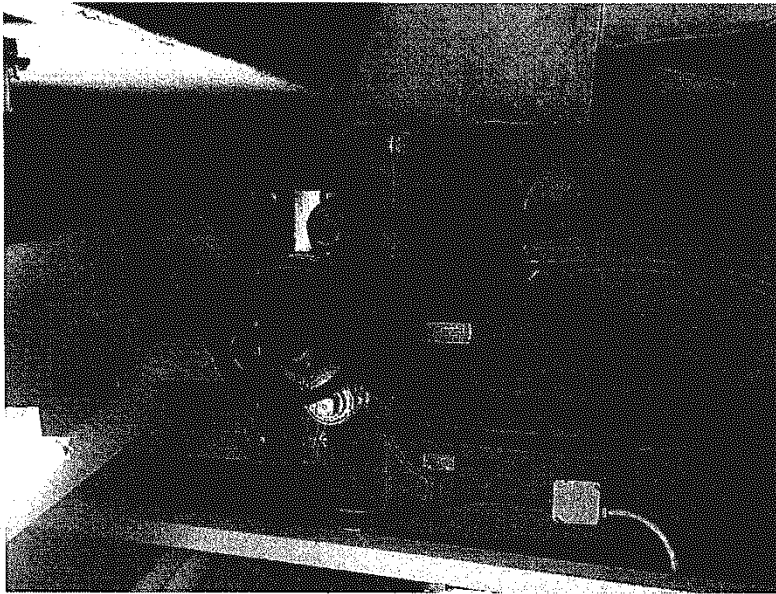


Estimate - \$130,000



36

# Fiscal Year 2020



Air Handler



Exhaust Fan System

Air Handler and Exhaust System – Middle School currently has 11 air handlers  
**Estimate - \$500,000**





## **Appendix B**

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### MSBA Board Actions

- a. **Invitation to Conduct a Feasibility Study**





# Massachusetts School Building Authority

**Deborah B. Goldberg**  
*Chairman, State Treasurer*

**James A. MacDonald**  
*Chief Executive Officer*

**John K. McCarthy**  
*Executive Director / Deputy CEO*

December 19, 2018

Mr. Richard M. Brown, Somerset Town Administrator  
Somerset Town Hall  
140 Wood Street  
Somerset, MA 02726

Re: Town of Somerset, Somerset Middle School

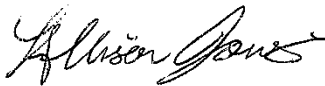
Dear Mr. Brown:

Enclosed for your records, please find an original, fully-executed Feasibility Study Agreement and Exhibits A-C for the Somerset Middle School project in the Town of Somerset (the "District").

Also, attached for your convenience, please find instructions for entering project budgets in the Massachusetts School Building Authority (the "MSBA") ProPay System, the ProPay System Access Form, and the Feasibility Study Agreement Budget Revision Request Form. Please note the MSBA will not process reimbursement requests until the District has entered the budget and the budget has been accepted by the MSBA.

Please feel free to contact me if you have any questions.

Regards,



Allison Jones  
Project Coordinator

Cc: Legislative Delegation  
Holly McNamara, Chair, Somerset Board of Selectmen  
Melissa Terra, Chair, Somerset School Committee  
Jeffrey Schoonover, Superintendent, Somerset Public Schools  
Lindsey M. Albernaz, Director of Business and Finance, Somerset Public Schools  
File: 10.2 Letters (Region 6)



MSBA Identification Number: 201702730305  
District: Town of Somerset  
Project Name: Somerset Middle School

**MASSACHUSETTS SCHOOL BUILDING AUTHORITY  
FEASIBILITY STUDY AGREEMENT**

NOV 19 2018

This Feasibility Study Agreement, dated the 19th day of December, 2018 (the "Agreement") is between the Massachusetts School Building Authority (the "Authority"), a public instrumentality of the Commonwealth of Massachusetts established by Chapter 70B of the Massachusetts General Laws and Chapters 208 & 210 of the Acts of 2004 of the Commonwealth, in each case as amended from time to time, and the Town of Somerset (the "District").

WHEREAS, the District submitted a Statement of Interest to the Authority for the Somerset Middle School (hereinafter "School"), and the District prioritized this Statement of Interest as its priority to receive any potential funding from the Authority;

WHEREAS, on December 13, 2017, the Board of Directors of the Authority voted to invite the District to the MSBA's Eligibility Period with a commencement date of May 1, 2018, and the District has completed all applicable preliminary requirements to the satisfaction of the MSBA;

WHEREAS, on October 31, 2018, the Board of Directors of the Authority shall have voted to authorize the Parties to enter into this Agreement upon the terms and conditions stated herein.

WHEREAS, the Feasibility Study is one step in the multi-step process of the Authority's grant program for school building construction and renovation projects, and the invitation to collaborate on conducting and/or reviewing a Feasibility Study is not approval of a project or any funding by the Authority, except as expressly provided in this Agreement;

WHEREAS, the Authority's grant program for school building renovation and construction projects is a non-entitlement, discretionary program based on need, as determined by the Authority;

WHEREAS, the District has submitted a signed Initial Compliance Certification, as described in 963 CMR 2.02, 2.03 & 2.10(2), in the form prescribed by the Authority, and it has been accepted by the Authority;

WHEREAS, the District has formed a School Building Committee to monitor the Feasibility Study and advise the District during the study;

WHEREAS, the Authority may reimburse the District for a portion of eligible, approved expenses incurred in connection with the Feasibility Study undertaken by the District for the following certain terms and conditions, hereinafter provided, and subject to the provisions of G.L. c. 70B, 963 CMR 2.00 *et seq.* and all applicable policies and procedures of the Authority.

✓

Agreement v.07.26.18

**MSBA Identification Number:** 201702730305  
**District:** Town of Somerset  
**Project Name:** Somerset Middle School

NOW THEREFORE, in consideration of the promises and the agreements, provisions and covenants contained in this Agreement, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Authority and the District (together, the "Parties") agree as follows:

SECTION 1  
DEFINITIONS

1.1 Capitalized terms not specifically defined in this Definitions section shall have the meanings ascribed to them in either M.G.L. c. 70B or 963 CMR 2.00 *et seq.*

"Budget" shall mean a complete and full enumeration of all costs, including both hard costs and soft costs, so-called, that the District reasonably estimates, to the best of its knowledge and belief, will be incurred in connection with the planning, development, and the completion of the Feasibility Study, which Budget shall be approved by the Authority and attached hereto as **Exhibit A**, as it may be updated from time to time.

"Design Contract" shall mean the standard design contract developed and prescribed by the Authority, as it may be amended by the Authority from time to time that shall be executed by the District and the Designer for design services related to the Proposed Project.

"Designer" shall mean the individual, corporation, partnership, sole proprietorship, joint stock company, joint venture, or other entity engaged in the practice of architecture, landscape architecture, or engineering that meets the requirements of M.G.L. c. 7C, § 44 and has been procured and contracted by the District to conduct a Feasibility Study, in accordance with the provisions of Sections 2.1(a)(i) and 2.1(a)(ii) of this Agreement.

"Excusable Delay" shall mean a delay of the Feasibility Study that either (a) is solely because of a natural event, such as flood, storms, or lightning, that is not preventable by any human agency, or (b) is reasonably determined by the Authority to be excusable, provided that the failure of the District to have exclusive ownership, control and use of site will not extend the "Term of the Agreement" established in Section 2.2.

"Feasibility Study" shall mean a study as described in 963 CMR 2.10(8) and in any applicable policies and guidelines of the Authority and, in relation to a Major Reconstruction Project or Repair Project, as described in M.G.L. c. 70B, 963 CMR 2.00 *et seq.* and any applicable policies and guidelines of the Authority, shall also include an engineering study, in a format prescribed by or otherwise acceptable to the Authority, to investigate potential options and solutions, including cost estimates, for the deficiencies and issues identified in the Statement of Interest or as otherwise determined by the Authority.

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“Owner’s Project Manager” shall mean the individual corporation, partnership, sole proprietorship, joint stock company, joint venture, or other entity under contract with, designated, or assigned by the District and approved by the Authority, to fully and completely manage and coordinate administration of the Project to completion. The Owner’s Project Manager must meet the qualifications set forth in M.G.L. c. 149, § 44A ½, 963 CMR 2.00 *et seq.*, and all applicable policies and guidelines of the Authority.

“Scope” shall mean the scope of the Feasibility Study as described in 963 CMR 2.10(8) and any applicable policies and guidelines of the Authority or as otherwise determined in writing by the Authority and as more fully described in **Exhibit B** attached hereto, as it may be updated from time to time as mutually agreed upon by the District and the Authority.

“Schedule” shall mean the schedule for the Feasibility Study, which schedule shall be updated from time to time and approved by the Authority.

“School” shall mean the Somerset Middle School located in the District.

“Statement of Interest” shall mean the Statement of Interest, as defined in 963 CMR 2.09 and all applicable policies and guidelines of the Authority, submitted to the Authority by the District for the School.

## SECTION 2 FEASIBILITY STUDY

Subject to the terms and conditions of this Agreement, and in reliance on the representations, warranties and covenants contained herein, the Parties hereby agree as follows:

### 2.1 Feasibility Study.

- (a.) The Parties hereby agree that the District shall undertake a Feasibility Study to investigate potential options and solutions, including cost estimates, to the School’s deficiencies and issues as identified in the Statement of Interest or as otherwise determined by the Authority and in accordance with the Scope, Budget, and Schedule approved by the Authority, provided that the Authority has the unconditional unilateral right to alter that approved Scope, Budget, and/or Schedule for the Authority’s convenience and the Authority will not be liable to the District for any loss and/or damage that arises, in whole or in part, out of any such alteration. The adequacy, sufficiency and/or acceptability of a Feasibility Study or a Prior Study, as defined in Section 2.1(c) of this Agreement, for the purposes of the Authority’s grant program shall be determined by the Authority within its sole discretion. Any determination by the Authority that a Feasibility Study or Prior Study is adequate, sufficient or acceptable

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for the Authority's purposes shall not be construed as a certification or approval by the Authority of the studies, plans, drawings, designs, cost estimates, specifications or any other information or materials contained therein and no MSBA requirement that the District study a particular Option shall constitute an MSBA approval of that Option, in whole or in part. The District, its officials, employees and agents are and shall remain responsible for the Feasibility Study and/or Prior Study and the building designs, site plans, drawings, cost estimates, specifications and other materials and information relative thereto that the District submits to the Authority. The Authority's review of the Feasibility Study and/or Prior Study and any studies, plans, drawings, designs, cost estimates, specifications or any other information or materials contained therein or related thereto is solely for the purpose of determining whether they meet the provisions of this Agreement and the Authority's regulations, standards, policies, guidelines and other requirements and whether the District will be eligible for potential funding from the Authority for the Proposed Project. Approval of a Proposed Project shall only be determined by a vote of the Authority's Board in accordance with 963 CMR 2.00 et seq. and the applicable policies and guidelines of the Authority.

- (i.) The District shall procure a Designer to conduct the Feasibility Study pursuant to the provisions of M.G.L. c. 7C, § 44 through 58, 963 CMR 2.10(8), 963 CMR 2.12, and any other applicable laws and regulations; provided, however, that if the estimated construction cost of the Proposed Project is determined to be more than five million dollars (\$5,000,000), then the District shall select the Feasibility Study Designer using the Authority's Designer Selection Panel in accordance with 963 CMR 2.00 *et seq.* and all applicable policies and guidelines of the Authority. The District shall not use a Designer who was procured by the District prior to July 1, 2007, to conduct the Feasibility Study, unless the Designer is acceptable to the Authority. It is further provided that, if said Designer who was procured by the District prior to July 1, 2007, is unacceptable to the Authority, the District shall conduct a new procurement for a Feasibility Study Designer pursuant to the applicable provisions of M.G.L. c. 7C, § 44 through 58, 963 CMR 2.10(8), 963 CMR 2.12, and any rules, regulations, policies and guidelines of the Authority.

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- (ii.) The District shall use the Authority's Design Contract to contract with the Designer for the Feasibility Study. The District shall monitor the performance of the Designer and shall require the Designer to fully comply with all provisions of the Design Contract, including, but not limited to, all provisions affecting the interests of the Authority.
  - (iii.) If, at any time, the construction cost of the Proposed Project is estimated to be more than one million five hundred thousand dollars (\$1,500,000), or if the construction cost of the Proposed Project is estimated to be equal to or less than one million five hundred thousand dollars (\$1,500,000) and the Authority so requires, at any time, as a condition to qualify for funding by the Authority, the District shall procure and maintain under contract, or otherwise assign, an Owner's Project Manager, pursuant to M.G.L. c. 149, § 44A ½, 963 CMR 2.00, *et seq.* and any applicable policies and guidelines of the Authority. The selection of an Owner's Project Manager shall be subject to the review and approval of the Authority as required by M.G.L. 70B, 963 CMR 2.00, *et seq.*, and any applicable policies and guidelines of the Authority. Any costs associated with an Owner's Project Manager who is not approved by the Authority shall not be eligible for reimbursement.
  - (iv.) Where applicable, the District shall use the Authority's model request for services and standard contract to procure and contract with any Owner's Project Manager for the Proposed Project, including the Feasibility Study stage of the Proposed Project. The District shall monitor the performance of the Owner's Project Manager and shall require the Owner's Project Manager to fully comply with all provisions of the contract between the District and the Owner's Project Manager including, but not limited to, all provisions affecting the interests of the Authority.
- (b.) Subject to the satisfaction of or compliance with, as reasonably determined by the Authority, : all of the terms and conditions of this Agreement, the applicable provisions of M.G.L. c. 70B, Chapters 208 and 210 of the Acts of 2004, and 963 CMR 2.00 *et seq.* and any other rule,



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regulation, policy or guideline of the Authority, and further subject to the Authority's approval of the Scope, Budget and Schedule and the District's approval, authorization and appropriation for the Feasibility Study using forms prescribed by or otherwise acceptable to the Authority, the Authority hereby agrees to pay to the District an amount that shall under no circumstances exceed the lesser of (i) 56.89% of the eligible, approved costs of the Feasibility Study, as determined by the Authority, or (ii) \$455,120.00. The Parties hereby acknowledge and agree that \$455,120.00 is the maximum amount of funding that the District may receive from the Authority for the Feasibility Study, and that the final amount of eligible Feasibility Study costs approved by the Authority may equal an amount less than \$455,120.00, as determined by an audit or audits conducted by the Authority. Any costs and expenditures that are determined by the Authority to be either in excess of the \$455,120.00 or ineligible for payment by the Authority shall be the sole responsibility of the District. The reimbursement rate set forth above, and as more fully described in the Reimbursement Rate Summary, attached hereto as **Exhibit "C"**, is the rate at which the District may be reimbursed for the eligible, approved costs of the Feasibility Study.

In the event that the Authority reasonably determines that the Feasibility Study is not in accordance or compliance with the Scope, Schedule, Budget, all of the terms and conditions of this Agreement, the provisions of M.G.L. c. 70B, Chapters 208 and 210 of the Acts of 2004, 963 CMR 2.00 *et seq.* and any other rule, regulation, policy or guideline of the Authority, or is delayed (other than an Excusable Delay) or is not duly authorized, approved and funded by the District in accordance with applicable law and as required by the Authority, then the Authority may temporarily and/or permanently withhold payments to the District for any eligible, approved costs of the Feasibility Study, provided that the Authority shall not unreasonably withhold any such payments and further provided that the Authority shall give written notice to the District of any such withholding. Notwithstanding the foregoing, failure by the Authority to provide such written notice timely shall not create or result in any entitlement to payment for the District. In the event that the Authority either temporarily or permanently withholds payment for the Feasibility Study, the District hereby agrees and acknowledges that the Authority shall have no liability for any such withholding of payment or any loss that may occur as a result of any such withholding of payment.

The District shall not be eligible to receive any funding for the Authority's share of the eligible, approved Feasibility Study costs, or any portion thereof, unless and until the Authority has approved the Scope, Budget, and Schedule. The Authority shall reimburse the District only for costs incurred by the District in connection with the Feasibility Study that are timely submitted to the Authority, eligible for reimbursement pursuant to

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Authority policies, procedures, and guidelines, and audited and approved by the Authority.

- (c) Notwithstanding any provision of this Agreement, a District will not be eligible for reimbursement for costs that arise out of any study of the deficiencies and issues identified in the Statement of Interest to the extent that those costs were incurred by the District prior to the date of the Execution of this Agreement.

## 2.2 Term of Agreement.

No Project Scope and Budget Agreement for a Proposed Project, which arises out of the provisions of this Agreement will be approved by the Authority's Board until on or after July 1, 2020. Subject to that limitation, the Agreement will terminate upon (1) the approval of a Project Scope and Budget Agreement for a Proposed Project by the Authority's Board and the (2) execution of a Project Scope and Budget Agreement by the Authority and the District for that Proposed Project or (2) Nine Hundred and Thirteen (913) Days after the date upon which the Authority's Board votes to invite the District into Feasibility Study, whichever occurs sooner.

## SECTION 3 COVENANTS

The District covenants and agrees that as long as this Agreement is in effect, the District shall and shall cause its employees, officers, agents, and representatives to perform and comply with all covenants of this Agreement.

3.1 The District hereby agrees that it shall make available for inspection by, and submit to, the Authority any and all information and documentation related to the Feasibility Study, including, but not limited to budget information, progress reports, and draft copies that may be requested by the Authority, promptly and in no event later than the deadline stated in any such request.

3.2 The District hereby agrees that it shall work with the Authority in developing the Scope, Budget and Schedule for the Feasibility Study and it acknowledges and agrees that the Authority's funding for the Feasibility Study is subject to the Authority's approval of the Scope, Budget and Schedule.

3.3 The District hereby acknowledges and agrees that the Authority shall not provide any amounts in excess of the amount determined under Section 2.1(b) of this Agreement.

3.4 The District hereby acknowledges and agrees that the Authority may, in its sole discretion, determine that certain costs incurred by the District in connection with the Feasibility Study are not eligible for reimbursement by the Authority, pursuant to any applicable provisions of M.G.L. c. 70B, 963 CMR 2.00 *et seq.*, including, but not limited to, sections 2.10 & 2.16(5), and any other policies and guidelines of the Authority.

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3.5 The District shall comply with all provisions of this Agreement; the provisions of all other agreements between the Authority and the District that relate to the Feasibility Study; the provisions of M.G.L. c. 70B, 963 CMR 2.00 *et seq.*, and all policies and guidelines of the Authority; and all provisions of law applicable to the Feasibility Study, this Agreement, and any other agreements and documents related to the Feasibility Study, and shall take all action necessary to fulfill its obligations under this Agreement.

3.6 The District hereby acknowledges and agrees that the Authority shall not be required or obligated to make any payment for any eligible Feasibility Study costs while an Event of Default, as defined in section 8 of this Agreement, shall have occurred.

3.7 The District shall, and shall cause any Owner's Project Manager and Designer and their employees, subconsultants and agents to, keep adequate records of the Feasibility Study and make all Feasibility Study records and the Feasibility Study site(s) available to the Authority or representatives of the Authority for review during the course of the Feasibility Study.

3.8 The District hereby acknowledges and agrees that the duties of any Owner's Project Manager hired by and/or assigned to the Proposed Project by the District shall include, but not be limited to, fully and completely managing and coordinating on behalf of the District the administration of the Feasibility Study to completion. Any Owner's Project Manager hired by and/or assigned to the Proposed Project by the District shall be responsible for overseeing, tracking, and managing the Budget and Schedule. In the event that an Owner's Project Manager is not required for the Proposed Project, the District shall have the aforesaid duties and responsibilities in addition to any others imposed by M.G.L. c. 70B, 963 CMR, *et seq.*, the policies and guidelines of the Authority, and any other applicable provisions of law.

3.9 The District hereby agrees that the Authority shall have free access to, and open communication with, any Owner's Project Manager hired by and/or assigned to the Proposed Project by the District and that the Authority shall have full and complete access to all information and documentation relating to the Proposed Project to the same extent that the District has such access. The District agrees that it shall require any such Owner's Project Manager to fully cooperate with the Authority in all matters related to the Proposed Project; to promptly communicate, transmit, and/or make available for inspection and copying any and all information and documentation requested by the Authority; to fully, accurately and promptly complete all forms and writings requested by the Authority; and to give complete, accurate, and prompt responses to any and all questions, inquiries and requests for information posed by the Authority. The District agrees that it shall not in any way, directly or indirectly, limit, obstruct, censor, hinder or otherwise interfere with the free flow of communication and information between the Owner's Project Manager and the Authority in all matters related to the Proposed Project and as provided herein; that it shall not suffer the same to occur by the act or omission of any other person or entity; and that it shall not retaliate against the Owner's Project Manager for communicating information to the Authority as provided herein. The

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District agrees to execute, deliver and/or communicate to the Owner's Project Manager any and all authorizations, approvals, waivers, agreements, directives, and actions that are necessary to fulfill its obligations under this paragraph. The District further agrees that the Authority shall bear no liability whatsoever arising out of the Authority's knowledge or receipt of information communicated to the Authority by the Owner's Project Manager and that the District shall remain responsible for the management and completion of the Proposed Project.

3.10 The District hereby acknowledges and agrees that the duties of the Designer shall include, but not be limited to, those described in this Agreement, including, but not limited to, the Scope attached hereto as Exhibit B; 963 CMR 2.10(8); any applicable rules, regulations, policies and guidelines of the Authority; and any standard scope of services and the Design Contract prescribed by the Authority.

3.11 The District hereby acknowledges and agrees that neither the District nor any of its employees, officials, agents, consultants or contractors shall submit any false or intentionally misleading information or documentation to the Authority in connection with this Feasibility Study Agreement or the Feasibility Study, and further acknowledges and agrees that the submission of any such information or documentation may cause the Authority to suspend, revoke or terminate any and all payments otherwise due to the District and/or recover any previous payments made to the District, and the District may be ineligible for any funding from the Authority. The District hereby further agrees that it shall have a continuing obligation to update and notify the Authority in writing when it knows or has any reason to know that any information or documentation submitted to the Authority contains false, misleading or incorrect information.

3.12 The District hereby acknowledges and agrees that the Authority shall bear no responsibility or liability of any sort for the results of any Feasibility Study, environmental assessment, geotechnical site testing, any necessary site remediation, clean-up, or other site remediation services.

3.13 The District hereby acknowledges and agrees that it shall provide a final Feasibility Study report to the Authority, which shall be in a format that is prescribed by or otherwise acceptable to the Authority.

3.14 The District hereby acknowledges and agrees that the Authority's grant program is a non-entitlement, discretionary program based on need, and the Feasibility Study may not result in a school construction, renovation or repair project that is eligible for funding by the Authority.

3.15 The District shall not combine, consolidate, or conjoin in any way the procurement, pre-qualification or selection of an Owner's Project Manager or Designer for the Proposed Project with the procurement, pre-qualification or selection of an Owner's Project Manager or Designer for any other construction, repair or renovation project without the express prior written approval of a duly authorized representative of the Authority. Any costs incurred by the District that relate to, or arise out of, the use of

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a combined, consolidated or conjoined procurement, pre-qualification or selection process as proscribed above, including, but not limited to, the preparation of bid documents, requests for services, and requests for qualifications, without the express prior written approval of a duly authorized representative of the Authority shall not be eligible for reimbursement.

#### SECTION 4 PAYMENTS AND AUDIT

4.1 Subject to the terms and conditions of the Agreement, the Authority shall reimburse the District for eligible, approved costs incurred in connection with the Feasibility Study in accordance with the following:

(a) Using the Authority's Pro-Pay system, the District shall submit requests for reimbursement on a monthly basis to the Authority in a format prescribed by the Authority. Each monthly request for reimbursement shall be approved locally by a duly authorized representative of the District, shall be in a form acceptable to the Authority, shall include reasonable detail, including, but not limited to (1) the amount of funding requested, (2) the nature of the materials or property or services received, (3) the total value of the work performed and materials furnished by the Owner's Project Manager, if any, the Designer, and each consultant, subconsultant or vendor to date, and (4) the value of the work completed during the Feasibility Study. The District agrees that each request for reimbursement shall be accompanied by the invoices for each of the amounts requisitioned and any other supporting documentation and information substantiating the District's request for reimbursement, as the Authority may request, in a form satisfactory to the Authority.

(b) Each request for reimbursement shall include a written certification signed by a duly authorized representative of the District stating that: (1) such request for reimbursement is solely for Feasibility Study costs, (2) the obligations itemized in the request for reimbursement have not been the basis for a prior request for reimbursement submitted by the District that has been paid or rejected by the Authority, (3) the reimbursement requested is due for work actually and properly performed or materials or property actually supplied prior to the date of the requisition, (4) the reimbursement requested is for costs that already have been duly paid by the District, and (5) such reimbursement requested is within the Budget approved by the Authority.

(c) The Authority shall review all requests for reimbursement properly submitted pursuant to this Agreement as soon as reasonably possible. The Authority shall not consider requests for reimbursement that are not, as reasonably determined by the Authority, (1) timely and properly submitted, (2) in accordance with the most recent Budget approved by the

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Authority, and (3) for eligible Feasibility Study costs incurred by the District. The District understands and agrees that no reimbursement shall be made by the Authority unless the District has complied with all of the terms and conditions of this Agreement, the applicable provisions of M.G.L. c. 70B, chapters 208 and 210 of the Acts of 2004, 963 CMR 2.00 *et seq.*, and all policies and guidelines of the Authority.

(d) After receipt from the District of a timely and properly submitted request for reimbursement pursuant to this Agreement, the Authority shall make payment to the District of the Authority's share of approved, eligible Feasibility Study costs, subject to the terms and conditions of this Agreement. The District hereby agrees and acknowledges that the amount of approved, eligible Feasibility Study costs reimbursed by the Authority may be subject to change, pending audit, including but not limited to an audit pursuant to Section 4.2 of this Agreement and the final close-out audit pursuant to Section 4.3 of this Agreement.

4.2 The Authority may review and perform a preliminary audit on each request for reimbursement submitted pursuant to this Agreement to ensure that only eligible costs of the Feasibility Study are approved and paid by the Authority. Any such preliminary audits shall be conducted in accordance with 963 CMR 2.16 and other policies and guidelines of the Authority. In the event that the Authority determines that an item contained in a request for reimbursement submitted by the District pursuant to this Agreement is not eligible for reimbursement by the Authority, the Authority shall adjust a subsequent reimbursement to the District to account for the ineligible costs. The District hereby acknowledges and agrees that each audit conducted pursuant to this Section 4.2 is preliminary, and the Authority may further adjust and alter the results of a preliminary audit after it conducts subsequent audits or a final close-out audit of the Feasibility Study.

4.3 The District hereby acknowledges and agrees that a final, close-out audit of the Feasibility Study by the Authority shall include an audit of all requests for reimbursement submitted and all reimbursements made by the Authority. The final, close-out audit shall be conducted in accordance with 963 CMR 2.16 and any other applicable regulations, policies and guidelines of the Authority. The District shall make all documents and materials requested by the Authority or its representatives available in a timely manner. The District further acknowledges and agrees that the final, close-out audit of the Feasibility Study may not occur until such time as the Authority conducts its final, close-out audit of the project that may result from the Feasibility Study, should the District be approved for any such project. Any adjustments applicable as a result of the final, close-out audit may be made in the final amount of the Total Facilities Grant, as determined by the Authority.

## SECTION 5 REPRESENTATIONS AND WARRANTIES

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The District hereby warrants and represents that each of the following statements is true, correct and complete:

5.1 The District is validly organized and existing under and by virtue of the laws of the Commonwealth, has full power and authority to own its properties and carry on its business as now conducted, and has full power and authority to execute, deliver and perform its obligations under this Agreement and all other documents related to the Feasibility Study.

5.2 The District is duly authorized to execute and deliver this Agreement and has taken all necessary steps to authorize the execution and delivery of this Agreement, to undertake the Feasibility Study and to perform and consummate all transactions contemplated by this Agreement.

5.3 The undersigned has the full legal authority to execute this Agreement on behalf of the District and to bind the District to its provisions.

5.4 This Agreement does not and will not, to any material extent, conflict with, or result in violation of any applicable provisions of law, including, but not limited to, any statute, charter, by-law, ordinance, rule or regulation, or any judgment, order, rule or regulation of any court or other agency of government.

5.5 The District has all requisite legal power and authority to own and operate the School that is the subject of the Feasibility Study and to undertake and oversee the Feasibility Study or, in the case of a school facility that is leased by the District, the District has all of the requisite legal power and authority to control and operate the School that is the subject of the Feasibility Study and to undertake and oversee the Feasibility Study pursuant to a lease which assures that the District has exclusive jurisdiction and control of the School and the land upon which it is situated for the anticipated useful life of the Proposed Project.

5.6 No information furnished by or on behalf of the District to the Authority in this Agreement, the Budget, the Initial Compliance Certification, or any other document, certificate or written statement furnished to the Authority in connection with the Feasibility Study contains any untrue statement of a material fact or omitted, omits or will omit to state a material fact necessary in order to make the statements contained in this Agreement or therein not misleading in light of the circumstances in which the same were made.

5.7 The District has duly obtained all necessary votes, resolutions, authorizations, appropriations and local approvals, in accordance with formats prescribed by or otherwise acceptable to the Authority, and has taken all actions necessary or required by law to enable it to enter into this Agreement and to fund and perform its obligations hereunder, in accordance with the Authority's guidelines, regulations, policies and standards. This Agreement constitutes a valid and binding obligation of the District, enforceable in accordance with its terms, except as such enforceability may be limited by

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bankruptcy, insolvency, moratorium, reorganization or other laws heretofore or hereafter enacted and general equity principles.

5.8 No litigation before or by any court, public board or body is pending or threatened against the District or the Authority seeking to restrain or enjoin the execution and delivery of this Agreement or the Feasibility Study, or contesting or affecting the validity of this Agreement or the power of the District to pay its share of the Feasibility Study.

5.9 The District has implemented policies and procedures to prevent and eliminate fraud, waste and abuse of public funds in connection with the Feasibility Study and any future construction or renovation projects that may be forthcoming as a result of the Feasibility Study.

5.10 The District has submitted all audit materials requested by the Authority in connection with any project for which the District has received or anticipates receiving funding from the Authority.

5.11 All meetings of all public bodies in the District that relate in any way to the Proposed Project, including, but not limited to, the meetings of the District's school building committee, have been conducted, and shall be conducted, in compliance with the provisions of G.L. c. 30A, §§ 18 – 25, 940 CMR 29.00 *et seq.*, the so-called Open Meeting Law, and all other applicable law.

## SECTION 6 INSURANCE

6.1 The District shall obtain and maintain all insurance required by law and insurance of such types and limits and upon such terms and conditions as may be required by, or as may be acceptable to, the Authority.

6.2 The District shall require by contractual obligation, and shall also ensure by the exercise of due diligence, that any Designer hired by the District in connection with the Feasibility Study obtain and maintain, at a minimum, insurance of such types and limits and upon such terms and conditions as may be required by law and as may be prescribed by the Authority in the Design Contract between the Designer and the District.

6.3 Except where the Owner's Project Manager is an existing employee of the District, the District shall require by contractual obligation, and shall also ensure by the exercise of due diligence, that any Owner's Project Manager hired by the District obtain and maintain, at a minimum, insurance of such types and limits and upon such terms and conditions as may be required by law and as may be prescribed by the Authority in its standard contract for Owner's Project Manager services which is incorporated by reference herein.

## SECTION 7



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COMPLIANCE WITH CONTRACT DOCUMENTS, PROJECT PERMITS AND  
OTHER APPLICABLE LAW

7.1 The District shall take all reasonable actions designed to ensure that the Feasibility Study complies with all applicable contract documents, building codes, laws, rules and regulations and to ensure that all necessary project permits have been obtained. Notwithstanding any right of approval or review held or exercised by the Authority in connection with this Agreement or the Feasibility Study, the District shall be responsible for the successful performance and completion of the Feasibility Study in accordance with this Agreement, the Design Contract, design documents and project permits, if any, and for the economical and efficient operation and administration of the Feasibility Study.

SECTION 8  
DEFAULTS AND REMEDIES

8.1 The occurrence of any of the following events shall constitute, and is herein defined to be, an Event of Default under this Agreement:

(a) If the District shall fail to perform and observe any covenant, agreement or condition on its part provided in this Agreement and such failure shall continue for a period of thirty (30) days after written notice thereof shall be given to the District by the Authority; provided if such failure cannot be remedied within such thirty (30) day period, it shall not constitute an Event of Default hereunder if corrective action satisfactory to the Authority, as determined by the Authority in writing, is instituted by the District within such period and diligently pursued until the failure is remedied. Any forbearance or failure of the Authority in giving such written notice shall not amount to any waiver of the Authority's rights under this Agreement as to the same or subsequent breaches and shall not preclude the Authority from pursuing any of its rights or remedies provided under this Agreement or as otherwise provided by law.

(b) If any representation or warranty made by the District in this Agreement or in any other agreement entered into by the District with the Authority shall prove to have been incorrect or to be misleading in any material respect.

8.2 If any Event of Default hereunder shall occur and be continuing, the Authority may proceed to protect its rights under this Agreement, and may: (a) terminate this Agreement, (b) permanently withhold or temporarily suspend payment of any eligible, approved costs to the District, (c) recover any payments of eligible, approved costs previously made to the District, and/or (d) exercise any other right or remedy upon such default as may be granted to the Authority under this Agreement or under any other applicable provision of law.

8.3 No remedy conferred upon or reserved to the Authority is intended to be exclusive and every such remedy shall be cumulative and shall be in addition to every

**MSBA Identification Number:** 201702730305  
**District:** Town of Somerset  
**Project Name:** Somerset Middle School

other remedy given under this Agreement or now or hereafter existing at law or in equity. No delay or omission to exercise any right, remedy or power accruing upon any Event of Default shall impair any such right, remedy or power or shall be construed to be a waiver thereof, but any such right, remedy or power may be exercised from time to time and as often as the Authority may deem expedient.

## SECTION 9 OTHER TERMS

9.1 Governing Law. This Agreement shall be governed by, construed, and enforced in accordance with, the laws of the Commonwealth of Massachusetts.

9.2 Venue. Any civil action brought against the Authority by the District, or any person or entity claiming by, through or under it, that arises out of the provisions of this Agreement, shall only be brought in the Superior Court for Suffolk County, Massachusetts. The District, for itself and for any person or entity claiming by, through or under it, hereby waives any defenses that it may have as to the venue to which it has agreed herein, including, but not limited to, any claim that this venue is improper or that the forum is inconvenient. The District for itself and for any person or entity claiming by, through or under it, hereby waives all rights, if any, to a jury trial in any such civil action that may arise out of the provisions of this Agreement.

9.3 Indemnification of the Authority by the District. To the fullest extent permitted by law, the District shall indemnify and hold harmless the Authority and its officers, agents and employees from and against any and all claims, actions, damages, liabilities, injuries, costs, fees, expenses, or losses, including, without limitation, reasonable attorney's fees and costs of investigation and litigation, whatsoever which may be incurred by, or for which liability may be asserted against, the Authority or any of its officers, agents or employees arising out of any activities undertaken by, for, or on behalf of the District in the execution or implementation of this Agreement or with respect to the Feasibility Study, including, but not limited to, the performance of any contract or obligation directly or indirectly related to the Feasibility Study. Such obligation shall not be construed to negate or abridge any other obligation of indemnification running to the Authority which would otherwise exist.

9.4 Members, Employees Not Liable. No member or employee of the Authority shall be charged or held personally or contractually liable by or to the District under any term or provision of this Agreement or because of any breach thereof or because of its execution or attempted execution.

9.5 Assignability. The District shall not assign any interest, in whole or in part, in this Agreement and shall not transfer any interest in the same, whether by assignment or novation, without the prior written approval of the Authority.

9.6 Payment Not A Waiver.

**MSBA Identification Number:** 201702730305

**District:** Town of Somerset

**Project Name:** Somerset Middle School

The Authority's payment(s) to the District under this Agreement or its review, approval or acceptance of any actions by the District under this Agreement shall not operate as a waiver of any rights under this Agreement and the District shall remain liable to the Authority for all damages incurred by the Authority as a result of the District's failure to perform in accordance with the terms and conditions of this Agreement.

The rights and remedies of the Authority provided for under this Agreement are in addition to any other rights or remedies provided by law. The Authority may assert a right to recover damages by any appropriate means, including, but not limited to, set-off, suit, withholding, recoupment, or counterclaim either during or after performance of this Agreement.

9.7 Notices. Any notices required or permitted to be given by either of the Parties hereunder shall be given in writing and shall be delivered to the addressee (a) in-hand (b) by certified mail, postage prepaid, return receipt requested; (c) by facsimile; or (d) by a commercial overnight courier that guarantees next day delivery and provides a receipt, and such notices shall be addressed as follows:

If to the Authority:

Massachusetts School Building Authority  
40 Broad Street, Suite 500  
Boston, MA 02109  
Attention: Director of Capital Planning  
Facsimile: (617) 720-8460

If to the District:

Town of Somerset  
580 Whetstone Hill Road  
Somerset, MA 02726  
Attention: Director of Business and Finance  
Facsimile: 508-324-3104

or to such other address or addressee as the District and the Authority may from time to time specify in writing. Any notice shall be effective only upon receipt, which for any notice given by facsimile shall mean notice that has been received by the party to whom it is sent as evidenced by a confirmation slip that bears the time and date of receipt.

9.8 Severability. If any provisions of this Agreement shall for any reason be held to be invalid or unenforceable, the invalidity or unenforceability of such provision shall not affect any of the remaining provisions of this Agreement, and this Agreement shall be construed and enforced as if such invalid or unenforceable provision had not been contained herein.

9.9 Counterparts. This Agreement may be executed in one or more counterparts, any of which shall be regarded for all purposes as an original and all of which constitute but

**MSBA Identification Number:** 201702730305  
**District:** Town of Somerset  
**Project Name:** Somerset Middle School

one and the same instrument. Each party agrees that it will execute any and all documents or other instruments, and take such other actions as may be necessary to give effect to the terms of this Agreement.

9.10 No Waiver. No waiver by either party of any term or conditions of this Agreement shall be deemed or construed as a waiver of any other terms or conditions, nor shall a waiver of any breach be deemed to constitute a waiver of any subsequent breach, whether of the same or of a different section, subsection, paragraph, clause, phrase, or other provision of this Agreement.

9.11 Integration. This Agreement merges and supersedes all prior negotiations, representations, and agreements between the Parties hereto relating to the Feasibility Study and constitutes the entire agreement between the Parties hereto with respect to the Feasibility Study and the Authority's funding of a portion of the eligible, approved costs of the Feasibility Study.

9.12 Amendments. This Feasibility Study Agreement may be amended only through a written amendment signed by duly authorized representatives of the District and the Authority.

IN WITNESS WHEREOF, the Parties have executed this Agreement on this 19<sup>th</sup> day of December, 2018.

**MASSACHUSETTS SCHOOL BUILDING AUTHORITY**

By,

  
\_\_\_\_\_  
John K. McCarthy  
Executive Director

**TOWN OF SOMERSET**

By,

  
\_\_\_\_\_

Richard M. Brown  
\_\_\_\_\_  
NAME (type or print)

Town Administrator  
\_\_\_\_\_  
TITLE (type or print)



**EXHIBIT A**

**FEASIBILITY STUDY BUDGET**

**Town of Somerset  
Somerset Middle School**

The total Budget for the Feasibility Study conducted pursuant to this Agreement, which is attached hereto and incorporated by reference herein, shall be no more than \$800,000 based upon the following estimates:

Owner’s Project Manager:	\$150,000
Designer:	\$475,000
Environmental and Site Testing:	\$135,000
Other:	\$40,000

**EXHIBIT B****SCOPE OF THE FEASIBILITY STUDY****Town of Somerset  
Somerset Middle School**

The Scope of the Feasibility Study conducted under this Agreement, which is attached hereto and incorporated by reference herein, shall consist of the development of a Feasibility Study/Schematic Design for the evaluation of a renovation of the existing school, a renovation of and addition to the existing school and/or new construction for the Somerset Middle School (the “Proposed Project”) in the Town of Somerset (the “District”). Pursuant to the Massachusetts School Building Authority’s (the “MSBA”) regulations, 963 CMR 2.06, the space allowance for the Proposed Project shall meet all applicable MSBA regulations and guidelines.

The Feasibility Study shall contain all information required by 963 CMR 2.10(8) and any other applicable rules, regulations, policies, guidelines and directives of the MSBA including, but not limited to, a final design program, educational space summary, budget statement for preferred educational objectives, and a proposed total project budget. The Feasibility Study for this Proposed Project may examine an option to relocate the District-wide grade 5 enrollment to the Somerset Middle School, which for purposes of the design, shall be based on no more than 770 students in grades 5-8. Exclusive of the relocation proposal, and using information from the base enrollment projection, a design enrollment shall be based on no more than 590 students in grades 6-8 for the Somerset Middle School. The District will prepare and submit to the MSBA the educational space summary for both options for review and acceptance. Upon acceptance of the educational space summaries, the District will commence with the evaluation of alternatives. The Schematic Design that is developed pursuant to this Agreement shall be based upon the final design enrollment, which shall be subject to the written approval of the MSBA. The Schematic Design shall include, but not be limited to, the information required by the MSBA’s Feasibility Study Guidelines, including, but not limited to, a site development plan, environmental assessment, geotechnical assessment, geotechnical analysis, code analysis, utility analysis, schematic building floor plans, schematic exterior building elevations, narrative building systems descriptions, NE-CHPS scorecard or LEED for Schools checklist, outline specifications, cost estimates, project schedule and proposed total project budget.

In conducting the Feasibility Study and developing the Schematic Design, the District shall, in a sufficient and timely manner as determined by the MSBA, initiate such notification procedures, undertake such review processes, and obtain such determinations and approvals as may be required by 963 CMR 2.03(2)(h) & (i), including, but not limited to, such procedures, reviews, determinations, and approvals as may be required by the Massachusetts Historical Commission (the “MHC”) and/or the Massachusetts Environmental Policy Act. At its earliest opportunity, the District shall seek a written determination from the MHC as to whether the MHC intends to undertake a review of the Proposed Project.

The District shall be responsible for conducting such geotechnical evaluations, site investigations, soils explorations and environmental assessments as are reasonable and necessary to determine whether any significant environmental, geotechnical or other physical conditions exist that may have an impact upon eventual construction on the proposed site. The MSBA may

require the District to fully fund certain environmental or geotechnical site testing beyond initial investigatory costs. The MSBA shall bear no responsibility or liability of any sort for the results of any geotechnical evaluations or site testing, soils explorations, environmental assessments, nor for any site remediation, clean-up, or other site remediation services.

The development of the Schematic Design shall be subject to continuing review by the MSBA in accordance with the provisions of this Agreement, the MSBA's Feasibility Study guidelines and any other applicable rule, regulation, policy, guideline or directive of the MSBA. The District shall be responsible for submitting to the MSBA all documentation that is required to complete the Feasibility Study and Schematic Design and to support the preparation of a Project Scope and Budget Agreement.



# Exhibit C

Calendar Year 2018

Somerset

Somerset Middle School - 201702730305

<b><u>MSBA Reimbursement Rate Calculation</u></b>	
Base Points	31.00
Income Factor	8.21
Property Wealth Factor	17.68
Poverty Factor*	-
<i>Subtotal: Reimbursement Rate Before Incentives</i>	56.89
<b><u>Incentive Points</u></b>	
Maintenance (0-2)	-
CM @ Risk (0-1) Only projects invited to Capital Pipeline prior to 1/2/17	-
Newly Formed Regional District (0-6)	-
Major Reconstruction or Reno/Reuse (0-5)	-
Overlay Zoning 40R & 40S (0-1)	-
Overlay Zoning 100 units or 50% of units for 1, 2 or 3 family structures (0-0.5)	-
Energy Efficiency - "Green Schools" (0 or 2)	-
Model Schools (5) Only projects invited to Capital Pipeline prior to 1/2/16	-
<b>Total Incentive Points</b>	-
<b>MSBA Reimbursement Rate</b>	56.89

\*Poverty factor is calculated based on Chapter 110 of the Acts of 2017. Future reimbursement rates for feasibility or project scope and budget will be based on the calendar year reimbursement rate in effect at that time, which may be higher or lower than this rate.





## **Appendix B**

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### MSBA Board Actions

- b. **Certificate of Legal Counsel for a Feasibility Study Agreement**



October 29, 2018

**Mark R. Reich**  
mreich@k-plaw.com

### **Certification of Legal Counsel for the Town of Somerset**

We, KP Law, P.C., duly appointed legal counsel for the **Town of Somerset**, hereby certify that:

1. The **Town of Somerset** is validly organized and existing under and by virtue of the laws of the Commonwealth, has full power and authority to own its properties and carry on its business as now conducted, and has full power and authority to execute, deliver and perform its obligations under the Feasibility Study Agreement, and any amendments thereto, between the **Town of Somerset** and the Massachusetts School Building Authority for the Proposed Project at **Somerset Middle School** (the "Feasibility Study Agreement") and all other related documents.

2. The **Town of Somerset** has duly obtained all necessary votes, resolutions, authorizations, appropriations and local approvals, in accordance with the formats prescribed by the Authority, and has taken all actions necessary or required by law to authorize the execution and delivery of the Feasibility Study Agreement, and any amendments thereto, and to fund and perform the obligations of the **Town of Somerset** under the Feasibility Study Agreement, and any amendments thereto.

3. The Feasibility Study Agreement, and any amendments thereto, constitute a valid and binding obligation of the **Town of Somerset**, enforceable in accordance with its terms, except as such enforceability may be limited by bankruptcy, insolvency, moratorium, reorganization or other laws heretofore or hereafter enacted and general equity principles.

4. The following elected or appointed governmental officer(s) and/or governmental body has the full legal authority under the laws of the Commonwealth of Massachusetts and all applicable local charters, ordinances and by-laws to execute and deliver the Feasibility Study Agreement, and any amendments thereto, on behalf of the **Town of Somerset** and to bind the **Town of Somerset** to its terms and conditions:

Board of Selectmen  
Somerset Town Hall  
140 Wood Street  
Somerset, MA 02726

5. The following elected or appointed governmental officer(s) and/or governmental body has the full legal authority under the laws of the Commonwealth of Massachusetts and all applicable local charters, ordinances and by-laws to make final, binding decisions on behalf of the

October 29, 2018

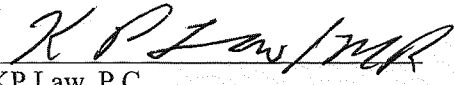
Page 2

**Town of Somerset** with respect to the Proposed Project described in the Feasibility Study Agreement, and any amendments thereto.

Board of Selectmen  
Somerset Town Hall  
140 Wood Street  
Somerset, MA 02726

I hereby further certify that, to the best of my knowledge and belief, the above-listed certifications are true, complete and accurate.

IN WITNESS WHEREOF, signed this 29<sup>th</sup> day of October 2018.

  
\_\_\_\_\_  
KP Law, P.C.  
Town Counsel

650399/SOMS/0001



## **Appendix B**

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### MSBA Board Actions

- c. **Owners Project Manager Approval Letter**







**Deborah B. Goldberg**  
*Chairman, State Treasurer*

**James A. MacDonald**  
*Chief Executive Officer*

**John K. McCarthy**  
*Executive Director / Deputy CEO*

March 5, 2019

Mr. Richard M. Brown, Somerset Town Administrator  
Somerset Town Hall  
140 Wood Street  
Somerset, MA 02726

Re: Town of Somerset, Somerset Middle School, Owner's Project Manager Approval Letter

Dear Mr. Brown:

Pursuant to the provisions of G.L. c. 149, s. 44A ½ and 963 CMR 2.11, the Town of Somerset ("Town") is required to procure the services of an Owner's Project Manager (the "OPM") for the Somerset Middle School project using a qualifications based selection process. As required by 963 CMR 2.11 (3), the Town has certified in writing to the Massachusetts School Building Authority (the "MSBA") that it has used a qualifications based selection process that complies with Massachusetts law. Pursuant to 963 CMR 2.11 (2) and G.L. c. 70B, s. 2, the Town has requested in writing that the MSBA approve its selection of CGA Project Management, LLC as the OPM for the Somerset Middle School project.

The MSBA has reviewed the information submitted by the Town in support of its selection of CGA Project Management, LLC. Based upon the information provided by the Town, the MSBA hereby approves its selection of CGA Project Management, LLC for the Somerset Middle School project and to the key personnel and consultants identified by CGA Project Management, LLC in the proposal that was submitted to the Town and reviewed by the MSBA, and as presented to the MSBA's Owner's Project Manager Review Panel on March 4, 2019. The MSBA's approval is specific to CGA Project Management, LLC and to the key personnel identified by CGA Project Management, LLC in the proposal that was submitted and reviewed by the MSBA. Pursuant to the provisions of 963 CMR 2.11 (4) and the applicable requirements of any agreements between the MSBA and the Town, any change in the OPM or its key personnel, as described in the attached organizational chart, must be approved in writing by the Town and the MSBA. The MSBA's approval is also based upon the Town's representation that the Eligible Applicant for the Town has designated Lindsey Albernaz, Director of Business and Finance, Somerset Public Schools as the individual who shall have the authority to act on behalf of the Owner, under its contract with the OPM, and who shall be responsible for day-to-day communication between the Owner and the OPM. Any change in this designation must be approved in writing by the MSBA.



Page 2

March 5, 2019

Somerset Owner's Project Manager Approval Letter

Please note the MSBA's approval of the Town's selection is subject to the provisions of 963 CMR 2.11 which, among other things, allows the MSBA to rescind its approval and/or to direct the removal of the OPM under certain circumstances. The MSBA retains the right to rescind its approval of the Town's selection of CGA Project Management, LLC and to deny and/or recoup reimbursement for expenditures or costs related to the OPM services if CGA Project Management, LLC does not perform its services to the satisfaction of the MSBA. The MSBA's approval is further subject to the execution of a contract between the Town and CGA Project Management, LLC in a format that is satisfactory to the MSBA, utilizing any standard contracts, forms, and provisions that the MSBA may require, including the completed MSBA System Access Request form which is described below. Please forward a hard copy and an electronic copy of the fully executed contract between the Town and CGA Project Management, LLC to Katie DeCristofaro, Capital Program Manager, at the MSBA by March 22, 2019.

It will be the Town's responsibility to monitor the performance of CGA Project Management, LLC to ensure that they perform their obligations in a satisfactory manner, and to enforce the provisions of its contract with CGA Project Management, LLC. Among obligations of the OPM that are detailed within the MSBA's standard contract is the requirement for the OPM to submit monthly reports to the MSBA. The OPM shall submit to the Town no later than the twelfth day of each calendar month. The OPM shall begin submitting monthly progress reports on the first reporting date following the month in which the OPM receives an approval letter from the Town. The Town shall verify that the OPM submits its monthly reports on time and in the form and manner determined by the MSBA. OPM Reports shall be submitted to the MSBA by the OPM using the MSBA's online OPM Report System. In order to activate and use this system, the Town must complete and submit the attached MSBA System Access Request form. The completed form must be delivered to Katie DeCristofaro, Capital Program Manager, at the MSBA by March 22, 2019.

The Town must comply with all provisions of law and all conditions imposed by any agreements executed between the MSBA and the Town, including, but not limited to, a Feasibility Study Agreement, a Project Scope and Budget Agreement, and a Project Funding Agreement, related to the provision of services by an OPM. The MSBA maintains its right to withhold reimbursement of costs and expenditures associated with OPM services if the Town fails to comply with the applicable terms and conditions of its agreements with the MSBA or any administrative directives issued by the MSBA, now in effect or hereafter promulgated. The MSBA's decision to approve the Town's selection of an OPM, to approve changes in the OPM, or its key personnel, or decline to exercise any of its rights in relation to the selection or performance of the OPM, shall not be construed as a waiver of the MSBA's right to review, audit, and disallow costs incurred by the Town in relation to OPM services, to withhold reimbursement, or to take any other actions available to the MSBA under the law or under its agreements with the Town.

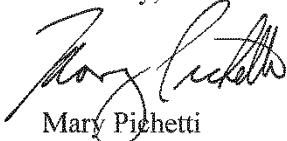
The MSBA shall bear no liability of any kind whatsoever for any claims directly or indirectly occurring out of the MSBA's approval of the Town's selection of the OPM, the MSBA's approval or non-approval of changes in the OPM or its key personnel, the MSBA's decision to rescind its approval or to direct the removal of an OPM, or any other alleged acts or omissions

Page 3  
March 5, 2019  
Somerset Owner's Project Manager Approval Letter

on the part of the MSBA related to the selection, performance, acts or omissions of the Owner's Project Manager.

If you have any questions, please do not hesitate to contact me or Allison Jones (Allison.Jones@MassSchoolBuildings.org) at 617-720-4466.

Sincerely,



Mary Pichetti  
Director of Capital Planning

Attachments: CGA Project Management Project Team Organizational Chart  
OPM System Access Request Form – OPM Report System User

Cc: Legislative Delegation  
Holly McNamara, Chair, Somerset Board of Selectmen  
Melissa Terra, Chair, Somerset School Committee  
Jeffrey Schoonover, Superintendent, Somerset Public Schools  
Lindsey M. Albernaz, Director of Business and Finance, Somerset Public Schools  
Daniel Tavares, Owner's Project Manager, CGA Project Management, LLC  
File: 10.2 Letters (Region 6)





## **Appendix B**

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### MSBA Board Actions

- c. **Designer Selection Approval Letter**





# Massachusetts School Building Authority

**Deborah B. Goldberg**  
*Chairman, State Treasurer*

**James A. MacDonald**  
*Chief Executive Officer*

**John K. McCarthy**  
*Executive Director / Deputy CEO*

July 9, 2019

Richard M. Brown, Town Administrator  
Somerset Town Hall  
140 Wood Street, Room 23  
Somerset, MA 02726

**RE: Designer Selection**  
**Somerset Middle School**  
**MSBA ID: 201702730305**

Dear Mr. Brown:

On Tuesday, July 9, 2019, the Massachusetts School Building Authority Designer Selection Panel ("DSP") interviewed the finalists for the above-referenced project. The following individuals represented the Town of Somerset on the DSP:

- Steve Moniz, Selectman, Somerset Board of Selectmen
- Jeffrey Schoonover, Superintendent, Somerset Public Schools
- Steven Medeiros, Somerset Building Committee Member

In accordance with the provisions of Massachusetts General Laws, Chapter 7C, Sections 44 through 58, and the MSBA Designer Selection Procedures, the DSP voted unanimously to rank the finalists, in order of qualifications, as follows for the subject project:

1. Ai3 Architects LLC
2. Studio G. Architects, Inc.
3. Dore & Whittier Architects, Inc.

The DSP determined that Ai3 Architects LLC possesses the requisite skills and experience for this project, particularly in light of their extensive experience in the design and construction of schools in Massachusetts.

The Town of Somerset should now take the appropriate local steps necessary to award the contract for designer services to the first-ranked firm and authorize fee and contract negotiations. Please know that the Town of Somerset must use the MSBA's standard contract for designer services, a copy of which can be downloaded from our website, [MassSchoolBuildings.org](http://MassSchoolBuildings.org).

Designer Selection Panel Interview Results Letter  
Somerset Middle School, Somerset, MA  
July 9, 2019  
Page 2 of 2

Before beginning the contract and fee negotiations, however, and in order to remain eligible for the reimbursement of a portion of the designer services fee, please have your Owner's Project Manager contact the MSBA Project Manager for this project, Chris Alles, to discuss the MSBA's guidelines. Upon completion of contract and fee negotiations with the first-ranked firm, please forward a copy of the fully executed contract to Kathryn DeCristofaro, Capital Program Manager, at the MSBA.

Sincerely,



Karl Brown, AIA  
Design Director

cc: Legislative Delegation  
Holly McNamara, Chair, Somerset Board of Selectmen  
Steve Moniz, Selectman, Somerset Board of Selectmen  
Andrew Crook, Chair, Somerset School Committee  
Victor Machado, Jr., Somerset School Committee Member  
Jeffrey Schoonover, Superintendent, Somerset Public Schools  
Steven Medeiros, Somerset Building Committee Member  
Troy L Randall, Ai3 Architects LLC  
Gail Sullivan, Studio G. Architects, Inc.  
Donald Walter, Dore & Whittier Architects, Inc.  
Daniel Tavares, Owner's Project Manager, CGA Project Management  
Chris Alles, MSBA Project Manager  
File 4.3 Feasibility Study Architect (R6)





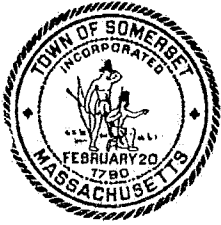
## Appendix C

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### Local Actions & Approvals

- a. **Town Vote for a Feasibility Study**





**Town of Somerset  
Massachusetts**

TOWN CLERK

TOWN CLERK

I, Dolores Berge, Town Clerk, hereby certify that the following action was taken on Article 24 at the Annual Town Meeting held on May 21, 2018, at the Somerset Berkley Regional High School:

**Article 24:** To see if the Town will vote to raise, appropriate, and/or transfer from available funds a sum of money for the purpose of performing a feasibility study to assess the existing capital needs of the Somerset Middle School, located at 1141 Brayton Avenue, Somerset, MA, for which feasibility study, under the direction of the Somerset Middle School Building Committee, the Town may be eligible for a grant from the Massachusetts School Building Authority.

The Advisory & Finance Committee by a majority does not recommend approval of this article. (Vote 5-3)

A motion was made by School Committeeman Michael Botelho and seconded by Victor Machado that the Town vote to appropriate the amount of Eight Hundred Thousand dollars (\$800,000) for the purpose of paying costs of a feasibility study for the Somerset Middle School, located at 1141 Brayton Avenue, Somerset MA, including the payment of all costs incidental or related thereto, and for which the Town may be eligible for a grant from the Massachusetts School Building Authority ("MSBA"), said amount to be expended under the direction of the School Building Committee and that said sum be transferred from Stabilization. The Town acknowledges that the MSBA's grant program is a non-entitlement, discretionary program based on need, as determined by the MSBA, and any costs the Town incurs in excess of any grant approved by and received from the MSBA shall be the sole responsibility of the Town, and that the amount of funding authorized pursuant to this vote shall be reduced by any grant amount set forth in the Feasibility Study Agreement that may be executed between the Town and the MSBA. Discussion followed by Mr. Botelho, Armand Cabral, Lloyd Mendes, Christopher Godet, Kathleen Gunning, David Wiider.

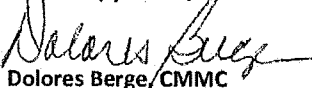
A motion was made to amend the motion by Victor Machado and seconded from the floor to read ...."that said sum be transferred as follows: \$500,000.00 from Undesignated Surplus and \$300,000.00 be transferred from Stabilization".... Discussion followed by Christopher Godet, Holly McNamara, Victor Machado. The Moderator called for the vote reminding the body that this amendment only needs to pass by a majority vote of those voting. Following a voice vote, the Moderator declared she was in doubt and asked the body for a standing vote.

Vote: Yes - 54, No - 106 Motion to amend failed by majority vote.

The Moderator opened the floor to further discussion on the original motion. Discussion followed by Lori Belche, Michael Botelho, Christina Wordell, Selectman Holly McNamara, Supt. Jeffrey Schoonover, Jessica Machado, Lori Rothwell, Brian Michaud, Richard Peirce, Selectman Steven Moniz, Paul Cardin and Selectman David Berube. A motion was made to move the question. The Moderator will allow last 2 voters in line to speak then close discussion. Further discussion followed by Tony Kucikas and Christopher Godet. Another motion to move the question was made by Selectman Moniz and seconded from the floor. Motion carried by a unanimous vote. The Moderator reminds the body that this motion requires a 2/3 vote as the funding source is the Stabilization Account. A standing counted vote is called.

Vote: Yes - 147 No- 27 Motion carried by greater than a 2/3 vote.

A true copy attest;

  
Dolores Berge, CMMC  
Town Clerk





## Appendix D

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### Design Enrollment Certification Letter

The Design Enrollment Certification Letter issued by the MSBA Director of Capital Planning to the Town Administrator and executed by the Chief Executive Officer, School Committee Representative, and Superintendent of Schools is included in this section of the Appendix for record. The agreed-upon design enrollment for a grade 6 through grade 8 project is **590 students**, and for a grade 5 through grade 8 project is **770 students**.





# Massachusetts School Building Authority

**Deborah B. Goldberg**  
*Chairman, State Treasurer*

**James A. MacDonald**  
*Chief Executive Officer*

**John K. McCarthy**  
*Executive Director / Deputy CEO*

September 21, 2018

Mr. Richard M. Brown, Somerset Town Administrator  
Somerset Town Hall  
140 Wood Street  
Somerset, MA 02726

Re: Town of Somerset, Somerset Middle School

Dear Mr. Brown:

I would like to thank your team for meeting with Massachusetts School Building Authority (the "MSBA") staff on September 10, 2018 to review enrollment projections and methodologies for the Somerset Middle School project (the "Proposed Project") in the Town of Somerset (the "District"). As discussed, the next critical step is for the MSBA and the District to agree on a study enrollment for the Somerset Middle School.

The Somerset Middle School presently serves the District's entire grade 6-8 enrollment. The MSBA understands that the District would like its feasibility study to also examine relocation of the District's entire grade 5 enrollment to the Somerset Middle School to relieve enrollment pressures at the District's three elementary schools. Accordingly, this analysis will be particularly focused on the enrollment projections for those grades.

The table below illustrates the District's K-8 enrollment during the most recent ten-year period, including enrollment for the current school year (2018-2019) as reported by the District. The total grade 6-8 enrollment in Somerset as reported by the District for the 2018-2019 school year is 616 students which reflects a decrease of 17 students (-2.7%) from the grade 6-8 enrollment reported in 2014-2015 which was the maximum grade 6-8 enrollment reported in the preceding ten years. Additionally, the 2018-2019 grade 6-8 enrollment reflects an increase of approximately seven students (1.2%) from the average grade 6-8 enrollment reported during the preceding ten-year period.

Year	K-5	6-8	Total
2009	1,111	607	1,718
2010	1,133	584	1,717
2011	1,172	589	1,761
2012	1,155	596	1,751
2013	1,147	614	1,761
2014	1,126	633	1,759
2015	1,108	627	1,735
2016	1,117	616	1,733
2017	1,112	606	1,718
2018	1,100	616	1,716



Page 2

September 21, 2018

Town of Somerset Enrollment Letter

The MSBA understands that the District is proposing a design enrollment to accommodate approximately 626 students in grades 6-8 at the Somerset Middle School. As previously noted, the enrollment in grades 6-8 as reported by the District for the 2018-2019 school year at the Somerset Middle School was 616 students.

With respect to future enrollments, the MSBA's base enrollment forecast indicates that the District's grade 6-8 enrollment will fluctuate somewhat through the 2028-2029 school year. The results of the base enrollment forecast are as follows:

- The average grade 6-8 enrollment forecast for the projected period through the 2028-2029 school year is 580 students.
- The average grade 5-8 enrollment forecast for the projected period through the 2028-2029 school year is 760 students.

As a result of a sensitivity analysis performed by the MSBA on this base enrollment projection and further discussion with the District, the following adjustment has been made to the base enrollment projection:

- Out-of-District Enrollment
  - In order to adjust for fluctuations to the out-of-district enrollment patterns of the District's residents over time, the MSBA has made an additional adjustment to the base enrollment projection.
  - In order to make this adjustment, the MSBA adjusted the grade to grade survival ratios for grades 5-8 by a total of 3.3% throughout a four year period in the projection.
  - This adjustment added the following totals to the projected averages for the District's proposed grade configurations as compared to the base enrollment projection:
    - For grades 6-8 the adjustment added approximately 10 students.
    - For grades 5-8 the adjustment added approximately 10 students.

As a result of the analysis on the base enrollment forecast, the historical enrollment trends of the District, and the adjustment described above the MSBA recommends, for planning and study purposes only, study enrollments for the Proposed Project as follows:

- Grades 6-8: 590 students
- Grades 5-8: 770 students

The number of invitations that the MSBA can issue each year is limited by the annual cap provided through the dedicated penny of the sales tax. Over the last several years, the MSBA has left behind approximately 85% of the applicants that submitted a Statement of Interest to the MSBA. As part of the enrollment process, the MSBA is agreeing with the District's request to consider one additional study enrollment option to evaluate the potential options for improving conditions at the elementary schools in Somerset in addition to the Statement of Interest



Page 3  
September 21, 2018  
Town of Somerset Enrollment Letter

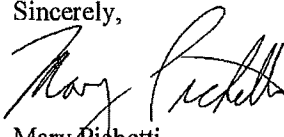
associated with the Somerset Middle School. The MSBA would not object to the District studying and developing a potential project that relocates the District's entire grade 5 enrollment to the Somerset Middle School. However, if the District were to select this option as its preferred solution, additional costs would be deemed ineligible for reimbursement and the MSBA would not be able to participate fully. The MSBA will participate in the Feasibility Study /Schematic Design costs associated with studying options presented in this enrollment letter up to the limits of its funding caps associated with designer and OPM fees. Although participating in the study costs, the MSBA would limit its estimated maximum grant to the 590 students in grades 6-8, thus funding the Statement of Interest school proposed in the District's preferred solution through construction and completion but would not participate in the construction and completion costs associated with the added enrollment, in this case grade 5.

If the grade 5-8 configuration is determined to be the Preferred Solution, the District will be required to establish in the Preferred Schematic Report the proposed future use or disposition of any existing spaces vacated or otherwise reprogrammed by this potential project and that the Preferred Solution has been approved by the necessary District officials. Further, the MSBA will require a written plan from the District describing the process for determining local support for potential grade reconfiguration. Upon approval of the District's Preferred Solution, the MSBA will forward a design enrollment certification that is specific to the grade configuration associated with the approved Preferred Solution.

The MSBA believes that this study enrollment recommendation will position the District to efficiently meet space capacity needs throughout future enrollment variations. Please sign and return the attached certification within 21 calendar days to confirm agreement on this study enrollment. If the District feels that this study enrollment does not meet the needs of the District, please respond to this letter via e-mail to Allison Jones and propose three meeting/conference call times for which the District can be available to discuss enrollment.

If you have any questions regarding this matter, please do not hesitate to contact me or Allison Jones ([Allison.Jones@massschoolbuildings.org](mailto:Allison.Jones@massschoolbuildings.org)) at 617-720-4466.

Sincerely,



Mary Pichetti  
Director of Capital Planning

Cc: Legislative Delegation  
Holly McNamara, Chair, Somerset Board of Selectmen  
Melissa Terra, Chair, Somerset School Committee  
Jeffrey Schoonover, Superintendent, Somerset Public Schools  
Lindsey M. Albernaz, Director of Business and Finance, Somerset Public Schools  
File: 10.2 Letters (Region 6)

MASSACHUSETTS SCHOOL BUILDING AUTHORITY  
TOWN OF SOMERSET  
SOMERSET MIDDLE SCHOOL  
STUDY ENROLLMENT CERTIFICATION

As a result of a collaborative analysis with the Massachusetts School Building Authority (the "MSBA") of enrollment projections and space capacity needs for the Somerset Middle School (the "Proposed Project"), the Town of Somerset hereby acknowledges and agrees that the design of alternatives, which may be evaluated as a part of the feasibility study for the Somerset Middle School, shall be based in accordance with the following:

Enrollment for Grades 6-8, District-wide	Enrollment for Grades 5-8, District-wide
590 students	770 students

The Town of Somerset further acknowledges and agrees that, pursuant to 963 CMR 2.00 *et seq.*, the MSBA shall determine the square feet per student space allowance and total square footage according to the enrollments noted above. The Town of Somerset acknowledges and agrees that it has no right or entitlement to any particular design enrollment, square feet per student space allowance, or total square footage and that it has no right or entitlement to a design enrollment any greater than any of the enrollments noted above, and further acknowledges and agrees that it shall not bring any claim or action, legal or equitable, against the MSBA, or any of its officers or employees, for the purpose of obtaining an increase in the design enrollment for the Proposed Project that it has acknowledged and agreed to herein. The Town of Somerset further acknowledges and agrees that, among other things, the design enrollment, square feet per student space allowance, and total square footage of the Proposed Project shall be subject to the approval of the MSBA's Board and that the final approval of a Proposed Project shall be within the sole discretion of the MSBA's Board.

The undersigned, for themselves and the Town of Somerset, hereby certify that they have read and understand the contents of this study enrollment certification and that each of the above statements is true, complete and accurate. The undersigned hereby certify that they have been duly authorized by the appropriate governmental body to execute this Certification on behalf of the Town of Somerset and to bind the Town of Somerset to its terms.



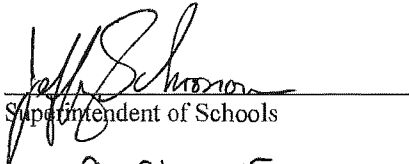
Chief Executive Officer

7/27/2018  
Date



Duly Authorized Representative of School Committee

SEPT 24, 2018  
Date



Superintendent of Schools

9-24-2018  
Date



## Appendix E

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# Maintenance & Capital Planning Document



## Massachusetts School Building Authority

### DRAFT Maintenance and Capital Planning Record

The Maintenance and Capital Planning Record is one of the pre-requisite documents required during the application process that the Massachusetts School Building Authority (MSBA) has established for the new grant program for school construction and renovation projects. This report was generated by the MSBA's online Maintenance and Capital Planning System. It contains information entered by representatives selected by the school district regarding district maintenance and capital planning budgets and practices.

For more information on the terms used in this report, the new grant program, or the Massachusetts School Building Authority, please see the MSBA website at <http://www.massschoolbuildings.org>. Information about the Maintenance and Capital Planning System can be found in the User Guide located in the Policies and Guidelines section.

This Maintenance and Capital Planning Report (MCP Report) contains the following sections:

- Staffing
- Maintenance Planning
- Facilities Condition Index
- Environment
- Maintenance Budget
- Capital Program
- Capital Budget
- Attachments
- Submission

Attachments are described by their file name and the date that they were uploaded and have not been reproduced within this report. Enter the Maintenance and Capital Planning System to print each attachment uploaded by the district in its entirety.

District:	Somerset
Submission Date:	
Project(s) for which this maintenance and capital planning information was submitted:	Somerset Middle School - 201702730305
Comments:	

Disclaimer: A Maintenance and Capital Planning Record is NOT an application for funding. Submission of the Maintenance and Capital Record in no way commits the MSBA to accept an application, approve an application, provide a grant, or any other type of funding, or places any other obligation or requirement on the MSBA.

**Maintenance Planning**

1.	Is there a written Maintenance Plan for the district that details minimum custodial and maintenance standards and which governs day to day operations?	Yes
	Attachment: Maintenance Plan	<a href="#">CUSTODIAL_procedures_manual.pdf</a> , Date Uploaded: 9/17/2018
	Does the Maintenance Plan include standards and benchmarks for maintenance?	No
2.	Is there a preventative or predictive maintenance plan for the district's facilities?	No
	Attachment: Preventative or Predictive Maintenance Plan	
3.	Does the district have a work order system?	Yes
	Please describe the work order system and how it addresses planned and unplanned maintenance.	Currently the District is utilizing a paper work order system. We plan to start utilizing the new developed electronic work order system by October 1st.
	Attachment: Work Order	<a href="#">Maintenance Request Form.pdf</a> , Date Uploaded: 9/17/2018

## Environment

1.	Does the district routinely monitor air quality and air changes in its facilities?	No
2.	Does the district implement practices in the EPA's Tools for Schools program?	No
	If "No," does the district have a reason that it doesn't use the Tools for Schools?	The District was not aware there was this resource available through the EPA.
3.	Does the district have a protocol to eliminate toxic chemicals and use 'green' products for cleaning and repairs?	Yes
	If "Yes," please describe:	All custodial cleaning products used in school buildings are 'green' and non toxic.
4.	Best practices for building operators typically include regular inspecting, testing, balancing, and cleaning of HVAC components in order to make them operate more efficiently and improve air quality. Does the district have a protocol for doing this?	Yes
	If "Yes," please describe:	We have a full time equivalent licensed HVAC employee that works both for the Somerset Public Schools and Somerset Berkley Regional High School. He checks to make sure air handlers and AC units are running efficiently in all buildings. He changes the filters and AC units and air handlers, changes belts, oils/greases the air handlers and AC units.
5.	Does the district monitor energy consumption and spending?	Yes
	If "Yes," please describe:	Monthly recording of utilization for gas and electric are performed to ensure usage is in line with projected usage. Typically there are variances if we experience a very cold winter or an unseasonable fluctuation in outside temperatures.
6.	Does the district implement energy conservation measures and/or has the district made improvements to its facilities that result in energy savings?	Yes
	If "Yes," please describe:	In 2015, the Somerset Public Schools purchased and installed solar panels for the Somerset Middle School and North Elementary School. The solar panels have helped substantially with our electric usage, saving us approximately 40% of our electrical usage at these two buildings. We also locked into a contract to sell our SREC's (solar renewable energy certificates) on the market, of which the Town of Somerset collects approximately \$28k per quarter because of these SREC sales. In 2016, the District replaced all light bulbs from regular 34W fluorescent to 16W LED bulbs. This resulted in savings in our electrical costs. We also replaced all external light bulbs to LED in 2016. In 2015, the District installed boiler controls to self regulate boiler operations and program electronically. We tie in the school schedules to this program to ensure systems are not running full time during school vacation periods.

<b>Expended Budget (District-Entered):</b> This information was entered by the district as it was not yet available through the DESE.											
FY	4100 Cust Svcs	4120 Bldg Heat	4130 Utility Svcs	4210 Grnd Maint	4220 Bldg Maint	4225 Bldg Scry	4230 Equip Maint	4300 Extra Maint	4400 Netw Tele	4450 Tech Maint	Total
2017	668,741	187,950	356,255	37,792	293,055	2,176	92,400	0	0	60,991	1,699,360
2016	682,927	181,186	257,668	36,844	233,753	2,072	63,872	0	0	60,402	1,518,724
2015	660,130	278,265	224,461	22,161	178,951	2,171	99,132	0	0	45,320	1,510,591
6.	If there is a variance of 20% or greater between consecutive years in the district's total expended amounts please provide details on the reason for the difference.										
7.	<b>Projected Budget:</b>										
FY	4100 Cust Svcs	4120 Bldg Heat	4130 Utility Svcs	4210 Grnd Maint	4220 Bldg Maint	4225 Bldg Scry	4230 Equip Maint	4300 Extra Maint	4400 Netw Tele	4450 Tech Maint	Total
2021	720,568	197,676	239,812	30,172	273,373	31,000	82,191	0	66,300	0	1,641,092
2020	706,439	193,800	235,110	29,580	268,013	30,000	80,580	0	65,000	0	1,608,522
2019	692,587	190,000	230,500	29,000	262,758	92,830	79,000	0	92,296	0	1,668,971
8.	What does the district believe that the appropriate amount of spending on operations and maintenance should be to allow for the routine maintenance of the district's facilities and to achieve a sound preventative and predictive maintenance program? Please provide both an absolute value and a percentage of the total district budget.		The District strives to stay within an 8-9% of total budget for maintenance costs. These costs include all items related to custodial and maintenance salaries, security items, custodial supplies, general annual maintenance costs, utilities for gas, electric and water, and other miscellaneous needs that the School District would need for buildings.								
9.	Please provide any other comments on your budget history and forecast that would help the MSBA understand variances or the district's budgeting process.		The District's maintenance budget has stayed pretty consistent throughout the past five years with the exception of FY18, where the School Committee voted to allow us to spend approximately \$330,000 more on the security expenditure lines, to fund additional building security.								
10.	The DESE has not provided us with your Total District Expenditures for the most recent completed fiscal year. Please provide us with this information.		Total District Expenditures for 2017: \$16,441,540								



## Capital Budget

<u>Capital Budget History</u>							
The following is a list of all tax overrides, capital exclusions, and debt exclusions sought by the district and any of its associated municipalities and schools as provided by the Massachusetts Department of Revenue.							
Vote Date	Municipality	Category	Description	Amount	Yes Votes	No Votes	Win / Loss
12/19/2011	Somerset	Debt Exclusion	towns share of bond Issued by Somerset-Berkley Reg. Sch. District for purpose of paying costs of designing, constructing etc. for a new high school including all costs related hereto		1364	697	Win
1.	Please provide any comments, corrections, or additions to the information listed above.		There have not been any other overrides in the Town of Somerset since the HS vote in 2011.				
2.	Please describe any capital projects that were deferred due to funding constraints.		Not applicable				
<u>Capital Improvement Plan and Budget</u>							
1.	<p>Please upload a document or documents that list, by year and by item, your anticipated district, municipal, and school capital spending for the next five years. Your attachment(s) can be in any format, but must include the following information:</p> <ul style="list-style-type: none"> <li>• Fiscal year of expected implementation for each item</li> <li>• Whether each item is for the entire district, an individual municipality( and which), or a school ( and which)</li> <li>• Description of scope or need for work</li> <li>• Estimated Cost</li> <li>• Funding mechanism(override or debt exclusion, if known)</li> <li>• Term of debt (if known)</li> </ul>						
	Attachment(s)		<a href="#">FY16 CAPITAL IMPROVEMENT PLAN - 1st part.pdf</a> , Date Uploaded: 9/17/2018 <a href="#">FY16 CAPITAL IMPROVEMENT PLAN - 2nd part.pdf</a> , Date Uploaded: 9/17/2018 <a href="#">FY16 CAPITAL IMPROVEMENT PLAN - 3rd part.pdf</a> , Date Uploaded: 9/17/2018				
2.	Please provide any information the district has about the availability of non-public funds for school facility purposes.		The only other alternative funds that the District utilizes for maintenance is the Facility Rental Funds. When an outside organization wants to utilize our facilities, we collect a rental fee. These fees or approximately \$8k-\$10k per year are used to perform one time maintenance or equipment purchases.				
3.	Please provide information from the Treasurer, Finance Committee, and/or Capital Planning Committee regarding the current outstanding debt and future bonding capacity inside the debt limit for the municipality/municipalities.		Based on the Town's equalized valuation of \$2,108,404,600 effective January 1, 2016, its Normal General Debt Limit is \$105,420,230. The Direct Debt Summary as of 6/30/17 is \$12,031,344 of which \$4,894,601 is within the Debt Limit and \$6,000,244 is outside the general debt limit, with another \$1,136,500 being short term debt obligations.				

**Submission**

This section will remain blank until a record is submitted. When submitting, the district representatives are required to affirm the following:	
<input type="checkbox"/>	The district has reviewed all of the information entered in the MCP system and the documents attached and affirms that the answers are responsive to the questions and accurately and completely represent the maintenance procedures, budgeting history, capital planning process, expenditure history, and planned budget of the district.
<input type="checkbox"/>	The district acknowledges that by submitting this form electronically it is providing the MSBA with the final, definitive version of the district's maintenance and capital planning information as of this date, and that this information will be used to determine the district's eligibility for reimbursement and potential incentive points.
	Submission comments or notes:
	Submission date:



## Appendix F

# Phase I Traffic Impact Analysis



**PARE PROJECT NO. 19118.02  
REPORT**

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**TRAFFIC IMPACT ANALYSIS FOR  
SOMERSET MIDDLE SCHOOL  
SOMERSET, MASSACHUSETTS**

**SUBMITTED TO:  
THE VERTEX COMPANIES  
400 LIBBEY PARKWAY  
WEYMOUTH, MA 02189**

**SUBMITTED BY:  
PARE CORPORATION  
10 LINCOLN ROAD, SUITE 210  
FOXBORO, MA 02035**

**DECEMBER 2019**



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Appendix A	Traffic Counts
Appendix B	Crash Data
Appendix C	Speed Studies
Appendix D	Census Data
Appendix E	Trip Generation & Distribution
Appendix F	Traffic Capacity Analysis



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## **INTRODUCTION**

The following represents the traffic study completed for the reconstruction of the Somerset Middle School located at 1141 Brayton Avenue in Somerset, Massachusetts. There are currently two options for reconstruction, either a renovation and addition to the current facility or demolition of the existing facility and construction of a new building.

The existing middle school enrolls approximately 653 students between sixth and eighth grade. The hours of operation are from 8:00 a.m. to 2:40 p.m. and are expected to be maintained in the future. The school currently has one driveway on Brayton Avenue. The property is approximately 57.6 acres in size and the existing building is approximately 150,000 square feet.

The reconstructed Somerset Middle School will be designed to accommodate up to an 18% increase in enrollment due to the anticipated addition of fifth grade to the school at some point in the future. The faculty and staff will increase up to 26% to serve the future student population.

The study area consists of Bark Street/Brayton Avenue from Jaffrey Street in Swansea, Massachusetts to Read Street in Somerset, Massachusetts. A field review of the study area was conducted, which included geometric measurements and field observations recorded at the study intersections and roadways in the vicinity of the project site. The information obtained was used in the analysis of the study area intersections.

Presented within this study are existing conditions in the vicinity of the project site, a safety analysis of the study area, an analysis of the traffic based on existing, future 2026 no-build and future 2026 build conditions, and proposed mitigation measures and/or recommendations, as necessary. A locus map of the study area is provided in Figure 1 and the proposed site layouts are shown in Figures 2 and 3.

## **DATA COLLECTION**

Manual turning movement counts (MTMCs) were completed on Wednesday, September 4, 2019 from 7:00 a.m. to 9:00 a.m. and from 2:00 p.m. to 6:00 p.m. by Transportation Data Corporation (TDC) at the following intersections:

- Bark Street at Jaffrey Street (Swansea, Massachusetts)
- Brayton Avenue at the Somerset Middle School Driveway
- Brayton Avenue at Read Street

Pedestrian and bicyclists counts were captured during all MTMCs. Peak hour volumes were determined at each intersection for the morning, afternoon school and afternoon commuter peak periods.

An automatic traffic recorder count (ATR) was also captured for a 48-hour period from Tuesday, September 10, 2019 to Wednesday, September 11, 2019 by TDC at the following location:

- Brayton Avenue south of the Somerset Middle School Driveway





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Crash data for the roadway network in the vicinity of the project site was extracted from the MassDOT crash portal. This data encompasses the most recent three-year period available, from October 2016 through September 2019.

The Town of Somerset Planning Department was contacted to determine if there are currently any developments proposed within the Town whose trip generation information should be included in this study. The Town indicated that there are approved development projects, projects in the planning phase and roadway projects outside the vicinity of this project; however, there are no known projects in the vicinity of the study area that are expected to have an impact on the traffic volumes associated with the study area intersections.





● = Study Intersection



PARE CORPORATION  
ENGINEERS - SCIENTISTS - PLANNERS  
10 LINCOLN ROAD, SUITE 210  
FOXBORO, MA 02035  
508-543-1755

Project No. 19118.02

Date: December 2019

Figure 1  
Locus Map  
Somerset Middle School  
Somerset, MA

---

## **EXISTING CONDITIONS**

The study area for the Somerset Middle School is defined as the significant roadways and intersections in the vicinity of the site that may be impacted by the proposed reconstruction. Following are descriptions of the roadways and intersections included in the study area along with key observations for the school.

### **Study Area**

#### Study Area Roadway:

1. Bark Street/Brayton Avenue from Jaffrey Street in Swansea, Massachusetts to Read Street

#### Study Area Intersections:

1. Bark Street at Jaffrey Street in Swansea, Massachusetts
2. Brayton Avenue at the Somerset Middle School Driveway
3. Brayton Avenue at Read Street

### **Bark Street/Brayton Avenue**

Bark Street/Brayton Avenue runs in the north/south direction and is classified as a minor arterial. Land use along Bark Street/Brayton Avenue is mostly residential.

Bark Street extends north from the Swansea town line towards Jaffrey Street. The roadway consists of one 12-foot travel lane and a 6-foot striped shoulder in each direction. On-street parking is permitted along both sides of the roadway. There is a 5-foot sidewalk along the west side of the roadway but there are no crosswalks present within the study area.

Brayton Avenue has an approximate 36-foot curb-to-curb width consisting of an 18-foot travel way in each direction with no marked shoulders. On-street parking is permitted on both sides of the roadway. There is a sidewalk along the west side of the roadway which is 4 feet wide from Read Street to the school driveway and 5 feet wide from the school driveway to the Swansea Town line. There is a 6-foot wide sidewalk along the east side of the roadway from Read Street to the Swansea Town Line where it terminates. There are crosswalks across Brayton Avenue at the school pathway and at the Saint John of God Church and across 1<sup>st</sup> Street at its intersection with Brayton Avenue. ADA Accessible ramps do not exist at the crosswalks. Approaching the school in the northbound and southbound directions, Brayton Avenue has a school zone speed limit of 20 miles per hour in effect when flashing and “SCHOOL” pavement markings are located in the center of the roadway approximately 40 feet from the flashing school zone signs. There is no other speed limit posted on Brayton Avenue within the study area; therefore a de facto speed limit of 30 miles per hour is assumed for the study area.



Photo 1: Brayton Avenue at the Somerset Middle School Driveway

*Jaffrey Street at Bark Street*

At the northern end of the study limit, Bark Street runs north/south while Jaffrey Street approaches from the west forming a three-legged, unsignalized intersection. Jaffrey Street is under stop control while Bark Street is uncontrolled. Due to the intersection's location just north of the Somerset Middle School, a portion of the trips associated with the school travel through this intersection in Swansea, Massachusetts. Bark Street has a curb-to-curb width of 36 feet consisting of one 12-foot travel lane and a 6-foot striped shoulder in each direction. On-street parking is permitted on both sides of the roadway. Jaffrey Street has a 20-foot unstriped paved width with no sidewalks.

*Brayton Avenue at the Somerset Middle School Driveway*

Photo 2: Looking east towards Brayton Avenue from the school

The intersection of Brayton Avenue and the Somerset Middle School Driveway forms a three-legged, unsignalized intersection. Brayton Avenue runs north/south and has free movements. The school driveway approaches from the west and is under stop control though the approach lacks appropriate signing and striping. At the intersection, Brayton Avenue is 18 feet wide in each direction which accommodates through travel and on-street parking. The school driveway is 26 feet wide with no striping and accommodates one travel lane per direction. Serving as the school's only driveway, it accommodates bus/parent drop-off and pick-up activity and provides access to the staff parking lots. There is a 4-foot sidewalk separated by a 6-foot grass strip along the south side of the school driveway. There are no ADA accessible curb ramps present at the beginning or end of the school sidewalk.

*Brayton Avenue at Read Street*

The intersection of Brayton Avenue at Read Street forms a four-legged signalized intersection with Brayton Avenue running north/south and Read Street running east/west. The north leg of Brayton Avenue is 18 feet wide in each direction which accommodates through travel and on-street parking. The south leg of Brayton Avenue is 16 feet wide in each direction which accommodates through travel lane and on-street parking. Brayton Avenue has sidewalks present on both sides. The west and east legs of Read Street accommodate a 12-foot wide travel lane and 6-foot striped shoulder in each direction. There is a sidewalk on the north side of Read Street. The traffic signal operates in three (3) phases: the first phase is for the Brayton Avenue northbound and southbound movements; the second phase is an exclusive pedestrian phase; and the third phase is for the Read Street eastbound and westbound movements.



Photo 3: Eastbound Approach on Read Street



### Existing Site Observations

As part of the field review process, traffic observations were conducted during the morning arrival and afternoon dismissal periods associated with the school. The morning drop-off and afternoon pick-up observations were conducted on Monday, October 7, 2019.

#### Safety Measures

The study area contains several passive safety measures including “SCHOOL” pavement markings on both the northbound and southbound side of the school’s driveway paired with flashing school zone sign assemblies indicating a speed limit of 20 miles per hour and a series of both regulatory and non-regulatory signs as seen in the images below.



Photo 4: Slow School Zone Ahead sign



Photo 5: Stop sign in square loop



Photo 6: Stop for Pedestrians in Crosswalk sign



Photo 7: One of Two Student Pick-Up and Drop-off Area sign



Photo 8: One of Two End School Zone Sign



Photo 9: School Crossing Sign



Photo 10: Caution Blind Person in Area Sign



Photo 11: One of Two School Zone Speed Limit Flasher Sign



Photo 12: No Parking Before 8:00 AM with a Handicapped Parking Sign on both sides of the post



Photo 13: One of Two School Pavement Marking with Arrow

Site Layout and Internal Circulation

- The school currently has one driveway located on Brayton Avenue, which is used by staff, student drop-off/pick up, deliveries and bus/van access.
- There are two on-site parking lots intended for staff, visitors and deliveries. One lot is located north of the school and the other is located south of the school. Additionally, there are four parallel parking spaces in front of the school, two designated for handicap parking and two for general use. A striped fire lane exists at the front of the school opposite the parallel parking spaces, leaving a single-lane drive aisle in between. There is a square loop beyond the front of the school that provides access to the southern parking lot.
- There are very few walkers and bikers coming to/from the school and those that do use the pathways to Brayton Avenue, Read Street and Hot and Cold Lane.
- For arrival and dismissal, 17 buses and nine (9) vans enter the school property. During the morning drop off, the buses/vans access the northern parking lot and during the afternoon pick-up buses/vans are split between the northern parking lot and the striped fire lane at the front of the school.



- The designated student drop-off/pick-up area is in the striped fire lane at the front of the school during both arrival and dismissal. There is a staggered release between the bused students and those being picked up. After dropping off/picking up a student, vehicles loop around the square and exit back to Brayton Avenue.
- Students enter and exit the existing building via two main locations and a third as needed, which include:
  - the front (easterly side) of the school, facing Brayton Avenue;
  - the north side of the school facing the northern parking lot; and
  - the south side of the school that is for handicapped access from the southern parking lot.

#### Morning Arrival Period

- Upon arrival to the site at 7:10 a.m., school staff were observed entering the building and parents were beginning to arrive and queue in the fire lane.
- Between 7:10 a.m. and 7:30 a.m., 11 vehicles arrived and waited in the fire lane. The school is opened for students to enter at 7:30 a.m.
- By 7:25 a.m., the flashing speed zone signs approaching the school's driveway were active.
- The school's buses and vans began arriving around 7:30 a.m. and staff aided in helping students from the vehicles.
- Between 7:40 a.m. and 7:55 a.m., a steady stream of students were dropped-off.
- Not all drop-off vehicles pulled to the back of the vehicle in front of them, extending the overall queue length. Some vehicles drove around the queue after dropping off their child, causing conflict with the vehicles traveling past the queue to access the southern parking lot as well as the vehicles traveling back towards the exit after traversing the loop.
- Vehicles dropping students off left adequate space at the internal intersection for the buses/vans to exit the northern parking lot.
- There were no more than eight (8) vehicles observed in the drop-off lane at any given time, but the overall queue extended along the northern side of the school driveway (accommodating 10 vehicles) and onto Brayton Avenue. The longest queues observed included three (3) vehicles traveling southbound and six (6) vehicles traveling northbound on Brayton Avenue.
- Several vehicles were observed disregarding the "Stop" sign at the end of the square loop.



Photo 14: Morning Drop off

- A bike rack, capable of holding six (6) bikes, is located near the school's main entrance. Two (2) of the spaces were occupied.



- School begins at 8:00 a.m. and most school related traffic had cleared by then. However, late students continued to be dropped off until 8:10 a.m.
- There were no queues observed at the Jaffrey Street and Bark Street intersection. Queues of up to six (6) vehicles were observed on each approach to the Brayton Avenue and Read Street intersection. However, all queues were cleared within one signal cycle.
- Conversations with school staff indicated that rain and winter conditions further complicate traffic because less students walk/bike or are bused resulting in increased drop-offs.

Afternoon Dismissal Period

- Upon arrival to the site at 2:20 p.m., four (4) vehicles were waiting in the aisle of the south school parking lot, two (2) vehicles were parked in parallel parking spaces and 10 vehicles were waiting on the north side of the driveway. Two (2) school vans and two (2) game school buses were waiting in front of the school and two (2) school buses were waiting in the north parking lot.
- At 2:30 p.m., six (6) school buses and three (3) school vans arrived and parked in the front of the school, and 10 buses and four (4) school vans arrived and parked in the northern parking lot.
- At 2:40 p.m., students being bused were released from the front and northern entrances of the school under the supervision of school staff and bus/van drivers.



Photo 15: Afternoon Pick up



Photo 16: Afternoon Pick up/Buses Leaving the site

- By 2:40 p.m., a 10-vehicle queue extended along Brayton Avenue southbound approaching the school driveway. Vehicles waiting along Brayton Avenue southbound impede sight lines for vehicles exiting the driveway.
- At 2:45 p.m., the remaining students were dismissed.
- Once the vehicles on Brayton Avenue yielded to allow a bus to exit, several buses would proceed out of the driveway. There were no crossing guards present to indicate that traffic should continue to wait while all buses were cleared from the site.
- Four (4) vehicles were parked on the west side of Brayton Avenue in the vicinity of the school's pathway.





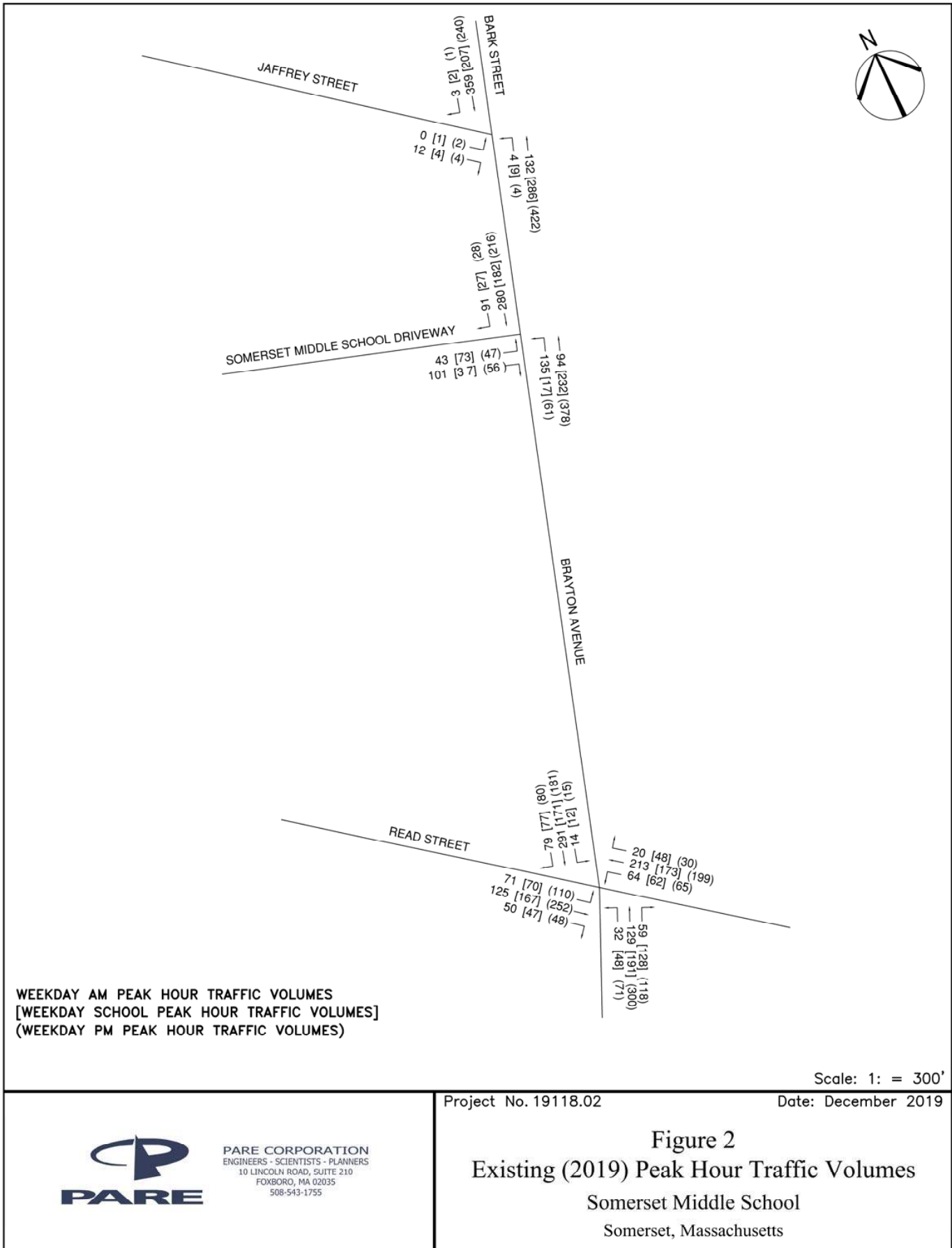
- 
- During afternoon observations, the vehicle queues at the intersection of Brayton Avenue and Read Street cleared within one signal cycle.
  - Conversations with school staff indicated:
    - The times that the school zone flashers operate are changed manually. Due to this, they are frequently flashing at the wrong times during day light savings for approximately a week and unnecessarily during vacation weeks and summer break; and
    - There are two (2) late buses that leave between 3:45 p.m. and 4:00 p.m. to accommodate students staying for after-school activities.

### **EXISTING TRAFFIC VOLUMES**

Existing traffic volume data was collected through turning movement counts (TMCs) at each of the study intersections. TMC's were performed during the weekday morning (7:00 a.m. to 9:00 a.m.) and the weekday afternoon (2:00 p.m. to 6:00 p.m.) peak periods by Transportation Data Corporation (TDC). These time periods were selected as they represent the peak traffic time periods for both the school and the adjacent roadway network. The weekday TMCs were performed on Wednesday, September 4, 2019, while school was in normal session. Pedestrian and bicycle counts were captured during all TMCs. Additionally, an automatic traffic recorder count (ATR) was captured for a 48-hour period from Tuesday, September 10, 2019 to Wednesday, September 11, 2019 by TDC along Brayton Avenue south of the Somerset Middle School driveway. From the data collected, Brayton Avenue has an approximate average daily traffic volume (ADT) of 11,000 vehicles.

Traffic data for the month of September was reviewed to determine if a seasonal adjustment to the traffic data was required. The MassDOT traffic volume data was reviewed from continuous count station 6105, located on I-195 north of U.S. Route 6. The count station data indicated that average daily traffic (ADT) volumes for the month of September were generally the highest of any month while school is in session. Based on this information, and to provide a conservative analysis, the existing traffic volumes were not adjusted for seasonal fluctuation. The existing (2019) traffic volumes are shown in Figure 4. Copies of all count data are provided in Appendix A.





## **SAFETY ANALYSIS**

### **Crash Data**

Crash data for the study area was extracted from the MassDOT crash portal for the most recent three-year period of October 2016 through September 2019. Crash data was reviewed to determine the presence of safety concerns within the study area. According to the data reviewed, there were 20 total incidents that occurred within the study area. A breakdown of the incidents by type and number of injuries can be seen below in Table 1. A summary table of all crash data reviewed is provided in Appendix B.

**Table 1: Crash Summary for Study Area**

<b>Roadway</b>	<b>Non-Fatal Injuries</b>	<b>Fatal Injuries</b>	<b>Angle</b>	<b>Object</b>	<b>Rear-End</b>	<b>Sideswipe, Opposite Direction</b>	<b>Head-On</b>
<b>Read St &amp; Brayton Ave</b>	6	0	4	0	8	0	1
<b>Brayton Ave.</b>	1	0	2	2	2	1	0

A total of 13 crashes occurred at the signalized intersection of Brayton Avenue and Read Street. Of these crashes eight (8) were rear end collisions, four (4) were angle collisions, and one (1) was a head-on collision. Three (3) of these crashes resulted in non-fatal injuries with a total of six (6) injured persons and none of the incidents resulted in a fatality. Most of these crashes were rear end collisions as drivers stopped or slowed at the intersection. The four (4) angled collisions were the result of drivers attempting a left turn at the intersection.

A total of seven (7) crashes occurred along Brayton Avenue not at the study area intersection. Of these crashes two (2) were rear end collisions, two (2) were angle collisions, one (1) was a sideswipe collision and two (2) were a collision with an object. One (1) of these crashes resulted in a non-fatal injury and none of the incidents resulted in a fatality.

The data received shows higher occurrences of angle and rear-end incidents. These are generally low severity incidents and are the most common types of incidents expected for this scenario. There were no trends or severity of incidents that would require or lend themselves to mitigation.

### **Sight Distance**

Sight distance is a measure of visibility available at a point of conflict, such as a driveway or an intersection. This is assessed by determining the travel speeds of vehicles on the roadway to ensure that vehicles exiting have adequate time to pull safely out of the location without causing an incident. Sight distance was reviewed for the existing school driveway. The proposed design will have one or two driveways on Brayton Avenue and the final driveway configuration will be determined at a future date.

Vehicle speeds along Brayton Avenue were captured on Tuesday, September 10, 2019 and Wednesday, September 11, 2019. A summary of the speed data results is shown in Table 2. A complete copy of the data can be found in Appendix C.



**Table 2: Speed Data Results for Brayton Avenue**

	De Facto Speed	Average Speed	True Median (50 <sup>th</sup> Percentile)	85 <sup>th</sup> Percentile	10 MPH Pace	% over Posted
Northbound	30	32	32	38	31-40	64%
Southbound	30	32	32	38	31-40	65%

It is typical engineering practice to assign the 85<sup>th</sup> percentile speed as the design speed of a roadway. Therefore, a design speed of a 40 miles per hour was selected for Brayton Avenue. According to the American Association of State Highway and Transportation Officials (AASHTO) publication *A Policy on the Geometric Design of Highways and Streets, Sixth Edition 2011*, the minimum safe stopping sight distance for a 40-mph design speed is 305 feet. The minimum safe intersection sight distance is 445 feet. A summary of the sight distance available for the existing driveway can be seen in Table 3.

**Table 3: Sight Distance Summary for Somerset Middle School**

		Required SSD (ft)	Measured SSD (ft)	Required ISD (ft)	Measured ISD (ft)
Existing Driveway	To the East	305	>500	445	>500
	To the West	305	>500	445	>500

SSD – Stopping Sight Distance; ISD – Intersection Sight Distance

The sight distance to the north and south of the existing school driveway meets both stopping and intersection sight distance requirements and to maintain the sight distance, it is suggested that future plantings and fencing be placed so as not to interfere with sight lines.

Due to the straight and relatively flat geometry of the roadway, there will likely be adequate sight distance from future driveway locations. However, this should be reviewed as the site design advances.

### **FUTURE CONDITIONS**

The Future (2026) No-Build traffic volume scenario includes all existing traffic volumes and the traffic volumes associated with expected background growth. To provide a conservative analysis, the background growth in traffic volumes consists of a general background traffic growth rate consistent with recent population growth in the area surrounding the study area and any additional traffic projected from additional developments near the study area. This method allows for the inclusion of a general growth rate to account for any unforeseen increases in traffic volumes and accounts for specific known developments expected to impact the transportation system adjacent to the Project.

#### *General Background Traffic Growth*

To account for background growth along the roadways within the vicinity of the project site, the existing traffic volumes were projected over a seven-year horizon from 2019 to 2026. Recent United States Census data for the Town of Somerset was reviewed to determine the appropriate growth rate. The census data showed an increase in population from 2000 to 2010 for the Town of Somerset.



The background growth assessment results are summarized in Table 4 below and a copy of the available census data is provided in Appendix D

**Table 4: Population Growth Summary**

<b>Data Source</b>	<b>2000 Population</b>	<b>2010 Population</b>	<b>Annual Growth Rate</b>
US Census Data	17,973	18,165	0.10%

Based on this information, a conservative annual growth rate of 0.5% was applied to determine the general background traffic volumes for the seven-year projection.

#### *Outside Development*

The Town of Somerset Planning Department was contacted to determine if there were any other proposed developments in the area that may have an impact on future travel patterns or increase traffic volumes in the area. The Planning Department indicated that there is a hotel project approximately one mile away, the Brayton Point Commerce Center project approximately two miles away that is currently in the planning stage and the Wilbur Elementary School Project (10 units) approximately 1.75 miles away. These projects are not expected to have significant traffic impact on intersections studied for this project due to their proximity and anticipated access.

### **BUILD CONDITIONS**

The future 2026 build condition represents the future 2026 no-build condition plus potential traffic associated with the proposed reconstruction.

With the design for the school's reconstruction still in the conceptual stages, it is uncertain whether a single driveway will remain, or if the site will be able to accommodate two driveways. Both scenarios have been analyzed for this study. The initial assessment assumes conservatively that a single driveway will be maintained. The alternative assessment considers the construction of a second driveway.

Based on previous experience designing and assessing various school sites, it is ideal for uses to be separated to the extent possible, with, at a minimum, separate loops for buses and parents. It is also optimal to allow parent queues to extend on-site to the greatest extent possible. For these reasons, the analysis of the two-driveway alternative assumes a bus loop at the front of the school and a parent loop around the back of the school. To accommodate right-side drop-offs by both vehicle types, the buses are assumed to enter the northern driveway and exit the southern driveway, while the parents will do the reverse. Teachers are assumed to enter both driveways based on proximity to their origin and destination. During the p.m. commuter peak, after school hours, it was assumed that either driveway could be utilized by all users.

#### *Trip Generation*

The Somerset Middle School is expected to maintain similar enrollment over the immediate upcoming years. It is, however, being designed to accommodate the addition of fifth grade, which will create an approximate 18% increase in students at this facility.



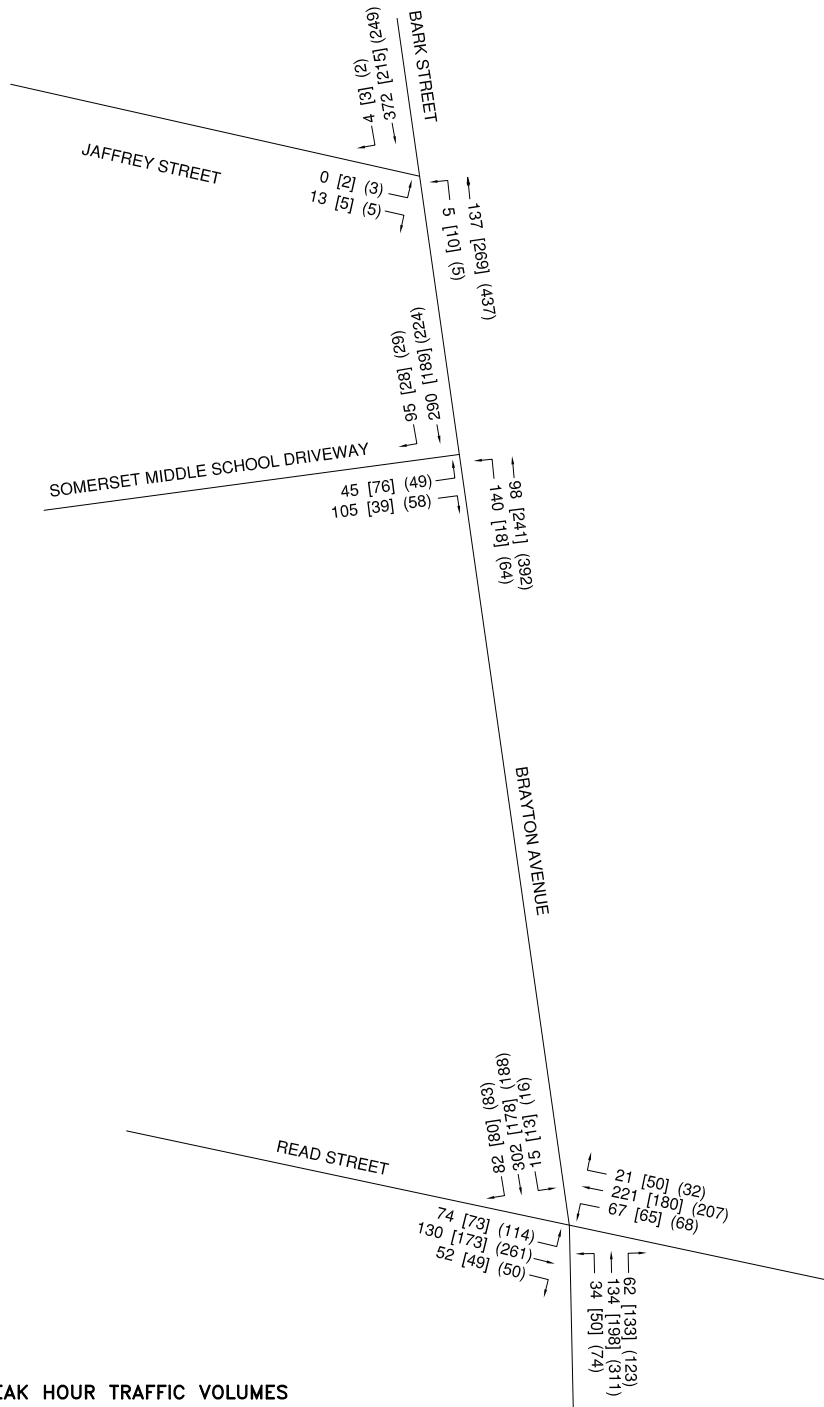
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The proposed middle school with no eligible student drivers is expected to have the same mode split, i.e. bused students, walkers and drop-off/pick-up, as exists today; therefore, a linear projection was completed to compute the future volumes of vehicles and pedestrians. It was also assumed that staff trips during the peak hours would increase proportionally to the inflation in enrollment.

*Trip Distribution*

Trip distribution was completed by adding the additional traffic projected for the school into the surrounding roadway network based on the existing traffic volume distribution. The future (2026) no-build volumes are shown in Figure 5, site-generated volumes are shown in Figure 6 and the future (2026) build volumes are shown in Figure 7. Complete trip generation and distribution calculations are provided in Appendix E.





WEEKDAY AM PEAK HOUR TRAFFIC VOLUMES  
 [WEEKDAY SCHOOL PEAK HOUR TRAFFIC VOLUMES]  
 (WEEKDAY PM PEAK HOUR TRAFFIC VOLUMES)

Scale: 1"=250'



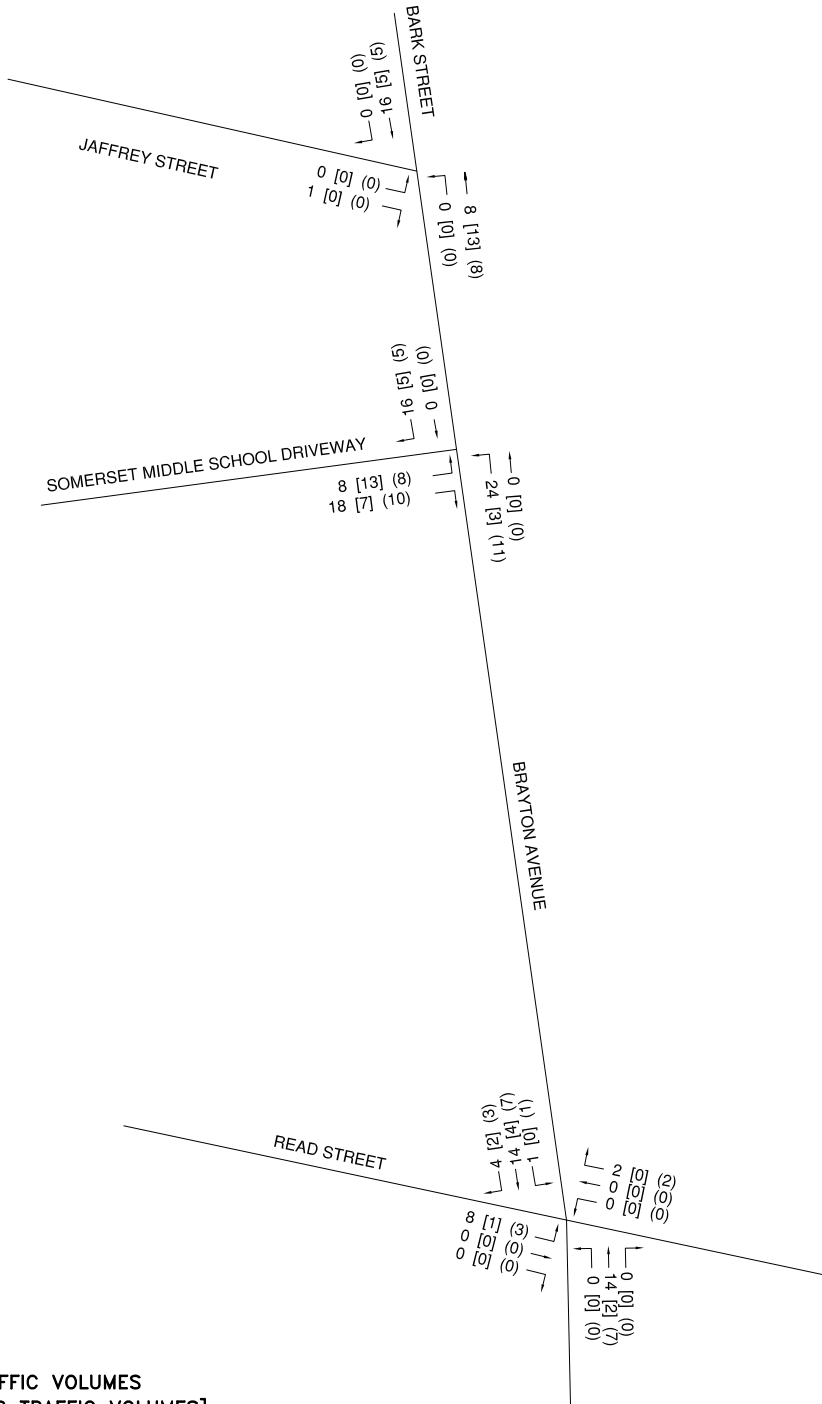
PARE CORPORATION  
 ENGINEERS - SCIENTISTS - PLANNERS  
 10 LINCOLN ROAD, SUITE 210  
 FOXBORO, MA 02035  
 508-543-1755

Project No. 19118.02

Date: December 2019

### Figure 3 Future (2026) No-Build Peak Hour Traffic Volumes

Somerset Middle School  
 Somerset, Massachusetts



Scale: 1" = 250'

Project No. 19118.002

Date: December 2019

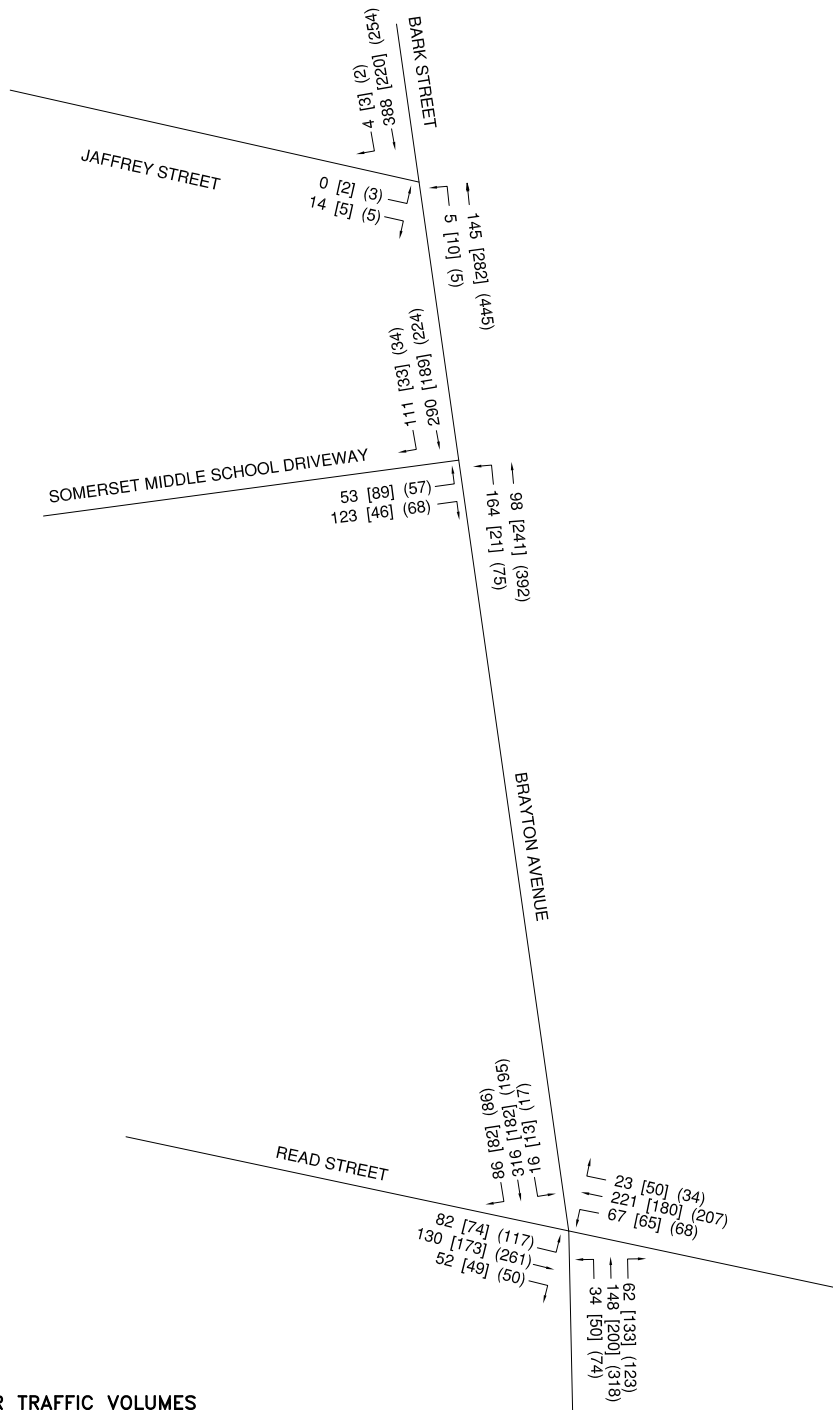


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**Figure 4**  
**Site Generated Peak Hour Traffic Volumes**

**Somerset Middle School**  
 Somerset, Massachusetts





WEEKDAY AM PEAK HOUR TRAFFIC VOLUMES  
 [WEEKDAY SCHOOL PEAK HOUR TRAFFIC VOLUMES]  
 (WEEKDAY PM PEAK HOUR TRAFFIC VOLUMES)

Scale: 1"=250'

Project No. 19118.02

Date: December 2019



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### Figure 5 Future (2026) Build Peak Hour Traffic Volumes

Somerset Middle School  
 Somerset, Massachusetts

## CAPACITY ANALYSIS

Capacity analysis was completed for the study intersections for existing, future 2026 no-build, and the future 2026 build conditions. Capacity analysis characterizes intersections based on their level of service (LOS). LOS is a quality measure describing operational conditions within a traffic stream, generally in terms of service measures such as speed, travel times, traffic interruptions, etc. Six (6) LOS, from A to F, are defined for each type of facility, with A representing the best operating conditions and F representing the worst operating conditions. The LOS criteria for signalized and unsignalized intersections are provided in Table 5 below. The complete capacity analyses can be found in Appendix F. Tables 6 through 8 provide the capacity analysis results for all study intersections for the AM, PM school and PM commuter peak hours for the existing, no-build and build scenarios with one site driveway.

**Table 5: LOS Criteria for Signalized and Unsignalized Intersections**

	Signalized Intersection	Unsignalized Intersection
LOS	Delay Time (sec/veh)	Delay Time (sec/veh)
A	≤ 10	0-10
B	> 10-20	> 10-15
C	> 20-35	> 15-25
D	> 35-55	> 25-35
E	> 55-80	> 35-50
F	> 80	> 50

**Table 6: AM Peak Hour LOS Table**

Intersection	Movement		Existing (2019)		Future (2026) No-Build		Future (2026) Build	
			LOS (Delay <sup>1</sup> )	Queue Length <sup>2</sup>	LOS (Delay <sup>1</sup> )	Queue Length <sup>2</sup>	LOS (Delay <sup>1</sup> )	Queue Length <sup>2</sup>
Jaffrey Street at Bark Street	NB	L	A (8.4)	0	A (8.5)	0	A (8.6)	0
	SB	R	N/C	-	N/C	-	N/C	-
	EB	L R	B (11.5)	<1	B (11.7)	<1	B (11.9)	<1
School Driveway at Brayton Avenue	NB	L	A (9.3)	<1	A (0.7)	<1	A (9.7)	<1
	SB	T	N/C	-	N/C	-	N/C	-
	EB	L R	E (36.6)	6	E (45.3)	7	F (53.2)	4
Read Street at Brayton Avenue	NB	L T R	A (7.4)	80	A (7.8)	88	A (8.1)	95
	SB	L T R	B (10.7)	148	B (11.4)	161	B (12.0)	172
	EB	L T R	B (18.4)	112	B (18.7)	118	C (20.1)	123
	WB	L T R	C (21.0)	139	C (21.3)	145	C (21.4)	146
	Intersection		B (14.1)	-	B (14.6)	-	B (15.1)	-

1. Delay shown in seconds per vehicle, N/C – No Conflict; 2. Queue Length shown in vehicles for unsignalized intersections and in feet for signalized intersections.

# 95<sup>th</sup> percentile volume exceeds capacity; queue may be longer.



**Table 7: PM School Peak Hour LOS Table**

Intersection	Movement		Existing (2019)		Future (2026) No-Build		Future (2026) Build	
			LOS (Delay <sup>1</sup> )	Queue Length <sup>2</sup>	LOS (Delay <sup>1</sup> )	Queue Length <sup>2</sup>	LOS (Delay <sup>1</sup> )	Queue Length <sup>2</sup>
Jaffrey Street at Bark Street	NB	L	A (7.7)	0	A (7.7)	0	A (7.8)	0
	SB	R	N/C	-	N/C	-	N/C	-
	EB	L R	B (10.2)	<1	B (10.6)	<1	B (10.6)	<1
School Driveway at Brayton Avenue	NB	L	A (7.8)	<1	A (7.8)	<1	A (7.8)	<1
	SB	T	N/C	-	N/C	-	N/C	-
	EB	L R	C (18.6)	3	C (20.1)	4	C (20.1)	5
Read Street at Brayton Avenue <sup>3</sup>	NB	L T R	B (11.0)	117	B (11.0)	170	B (11.1)	172
	SB	L T R	B (10.6)	133	B (10.6)	102	B (10.7)	104
	EB	L T R	C (23.0)	137	B (19.8)	140	B (20.0)	141
	WB	L T R	B (17.9)	102	C (22.8)	130	C (22.8)	130
	Intersection		B (14.1)	-	B (15.7)	-	B (15.8)	-

1. Delay shown in seconds per vehicle, N/C – No Conflict; 2. Queue Length shown in vehicles for unsignalized intersections and in feet for signalized intersections.

# 95<sup>th</sup> percentile volume exceeds capacity; queue may be longer.

**Table 8: PM Commuter Peak Hour LOS Table**

Intersection	Movement		Existing (2019)		Future (2026) No-Build		Future (2026) Build	
			LOS (Delay <sup>1</sup> )	Queue Length <sup>2</sup>	LOS (Delay <sup>1</sup> )	Queue Length <sup>2</sup>	LOS (Delay <sup>1</sup> )	Queue Length <sup>2</sup>
Jaffrey Street at Bark Street	NB	L	A (7.8)	0	A (7.8)	0	A (7.9)	0
	SB	R	N/C	-	N/C	-	N/C	-
	EB	L R	B (11.9)	<1	B (12.5)	<1	B (12.6)	<1
School Driveway at Brayton Avenue	NB	L	A (8.0)	<1	A (8.0)	<1	A (8.1)	<1
	SB	T	N/C	-	N/C	-	N/C	-
	EB	L R	C (24.3)	4	C (27.5)	5	E (39.1)	7
Read Street at Brayton Avenue <sup>3</sup>	NB	L T R	B (15.7)	236	B (17.5)	#265	B (18.1)	#295
	SB	L T R	B (10.8)	111	B (11.4)	116	B (11.8)	122
	EB	L T R	C (28.5)	#225	C (29.7)	#272	C (30.2)	#277
	WB	L T R	B (17.8)	140	B (17.9)	147	B (17.8)	148
	Intersection		B (18.6)	-	B (15.7)	-	C (20.0)	-

1. Delay shown in seconds per vehicle, N/C – No Conflict; 2. Queue Length shown in vehicles for unsignalized intersections and in feet for signalized intersections.

# 95<sup>th</sup> percentile volume exceeds capacity; queue may be longer.

The analysis shows little change between the no-build and future scenarios. Generally, the study intersections will operate at acceptable levels of service, at LOS C or better, with the exception of the school's driveway, which is expected to operate at LOS F during the morning drop-off period and at LOS E during the evening commuter peak.



## ALTERNATIVE

To alleviate delays and queue lengths and improve existing operation issues, an alternative scenario was assessed with two school driveways and circulation improvements as defined previously. The capacity analysis results of the alternative scenario can be seen in Table 9.

**Table 9: Alternative Build Peak Hour LOS Table**

Intersection	Movement		Future (2026) AM School Drop Off		Future (2026) PM School Pick up		Future (2026) PM Commuter Peak	
			LOS (Delay <sup>1</sup> )	Queue Length <sup>2</sup>	LOS (Delay <sup>1</sup> )	Queue Length <sup>2</sup>	LOS (Delay <sup>1</sup> )	Queue Length <sup>2</sup>
North School Driveway at Brayton Avenue	NB	L	A (8.5)	<1	A (7.8)	0	A (0.0)	0
	SB	T	N/C	-	N/C	-	N/C	-
	EB	L R	C (16.8)	2	C (15.5)	3	C (15.9)	<1
South School Driveway at Brayton Avenue	NB	L	A (9.3)	<1	A (8.0)	0	A (7.9)	<1
	SB	L T	N/C	-	N/C	-	N/C	-
	EB	L R	C (19.1)	<1	B (13.8)	<1	B (10.1)	<1

1. Delay shown in seconds per vehicle, N/C – No Conflict; 2. Queue Length shown in vehicles

# 95<sup>th</sup> percentile volume exceeds capacity; queue may be longer.

The addition of a second school driveway would result in a decrease in delay and queue lengths, allowing all peak hours to operate at acceptable levels of service, at LOS C or better.

## CONCLUSIONS

The crash data reviewed and summarized from October 2016 through September 2019 for the study area revealed a low frequency of incidents within the study area and the incidents were generally of low severity, with the exception of the signalized intersection of Brayton Avenue at Read Street. This intersection had approximately four (4) incidents per year; however, the severity of incidents remained low with incidents being primarily rear-end or angle collisions. There were no trends or concerns of incidents near the school site that would lend themselves to mitigation. It is not expected that the additional traffic generated by the expansion of the Somerset Middle School will have an impact on the safety of the roadways or create a safety concern.

The sight distance review indicated that the existing school driveway has adequate stopping and intersection sight distance in both directions. Given the relatively straight and level geometry of Brayton Avenue, it is expected that relocated driveways along the school's frontage would also have adequate sight distance. However, as noted previously, sight distance should be reassessed as the site design advances to confirm adequate sight lines from the final driveway locations.

The analysis shows little change between the no-build and build conditions. The intersections studied operate at acceptable levels of service except for the school's existing driveway. The school's driveway experiences considerable delay and queue lengths and will worsen under the build condition. To improve level of service and alleviate existing operational issues, the addition



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of a second driveway was reviewed in conjunction with circulation improvements. With two driveways, the site would operate at acceptable levels of service during all times of the day. Further, the circulation improvements, as defined previously, would significantly improve site operations.

In summary, the reconstruction of the Somerset Middle School site, expanded to accommodate fifth grade students, is expected to have minimal impact on the traffic and safety operations within the study area. However, to improve operations accessing and within the site, the following improvements are recommended:

- The addition of a second school driveway;
- The separation of parent and bus drop-off/pick-up areas;
- Uniform circulation procedures during drop-off and pick-up periods;
- Extension of the available on-site parent queue length;
- Maintenance of a continuous two-way drive aisle with additional pull-out areas; and
- Construction of ADA compliant ramps on Brayton Avenue at the school's walkways.







**Appendix A**  
**Traffic Counts**



**Transportation Data Corporation**

Mario Perone, mperone1@verizon.net  
tel (781) 587-0086 cell (781) 439-4999

N/S: Brayton Avenue  
W: Somerset Middle School Drive  
City, State: Somerset, MA  
Client: Pare/A. Archer

File Name : 05225A  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

Start Time	Brayton Avenue From North			Brayton Avenue From South			Somerset Middle School Drive From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
07:00 AM	1	70	0	16	8	0	0	0	0	95
07:15 AM	17	88	0	25	30	0	0	0	1	161
07:30 AM	45	85	0	20	63	0	51	19	0	283
07:45 AM	28	37	0	33	34	0	50	24	0	206
Total	91	280	0	94	135	0	101	43	1	745
08:00 AM	1	54	0	29	1	0	4	2	0	91
08:15 AM	2	58	0	39	1	0	2	0	1	103
08:30 AM	0	64	0	34	1	1	0	2	0	102
08:45 AM	0	58	0	29	1	0	0	0	0	88
Total	3	234	0	131	4	1	6	4	1	384
Grand Total	94	514	0	225	139	1	107	47	2	1129
Apprch %	15.5	84.5	0	61.6	38.1	0.3	68.6	30.1	1.3	
Total %	8.3	45.5	0	19.9	12.3	0.1	9.5	4.2	0.2	
Cars & Peds	81	510	0	216	133	1	101	38	2	1082
% Cars & Peds	86.2	99.2	0	96	95.7	100	94.4	80.9	100	95.8
Trucks & Buses	9	4	0	8	6	0	6	9	0	42
% Trucks & Buses	9.6	0.8	0	3.6	4.3	0	5.6	19.1	0	3.7
Bikes by Direction	4	0	0	1	0	0	0	0	0	5
% Bikes by Direction	4.3	0	0	0.4	0	0	0	0	0	0.4

Start Time	Brayton Avenue From North				Brayton Avenue From South				Somerset Middle School Drive From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:00 AM													
07:00 AM	1	70	0	71	16	8	0	24	0	0	0	0	95
07:15 AM	17	88	0	105	25	30	0	55	0	0	1	1	161
07:30 AM	45	85	0	130	20	63	0	83	51	19	0	70	283
07:45 AM	28	37	0	65	33	34	0	67	50	24	0	74	206
Total Volume	91	280	0	371	94	135	0	229	101	43	1	145	745
% App. Total	24.5	75.5	0		41	59	0		69.7	29.7	0.7		
PHF	.506	.795	.000	.713	.712	.536	.000	.690	.495	.448	.250	.490	.658
Cars & Peds	78	277	0	355	93	129	0	222	95	34	1	130	707
% Cars & Peds	85.7	98.9	0	95.7	98.9	95.6	0	96.9	94.1	79.1	100	89.7	94.9
Trucks & Buses	9	3	0	12	1	6	0	7	6	9	0	15	34
% Trucks & Buses	9.9	1.1	0	3.2	1.1	4.4	0	3.1	5.9	20.9	0	10.3	4.6
Bikes by Direction	4	0	0	4	0	0	0	0	0	0	0	0	4
% Bikes by Direction	4.4	0	0	1.1	0	0	0	0	0	0	0	0	0.5



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City, State: Somerset, MA  
Client: Pare/A. Archer

File Name : 05225A  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

Groups Printed- Cars &amp; Peds

Start Time	Brayton Avenue From North			Brayton Avenue From South			Somerset Middle School Drive From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
07:00 AM	1	70	0	16	8	0	0	0	0	95
07:15 AM	15	86	0	24	30	0	0	0	1	156
07:30 AM	36	84	0	20	58	0	49	14	0	261
07:45 AM	26	37	0	33	33	0	46	20	0	195
Total	78	277	0	93	129	0	95	34	1	707
08:00 AM	1	54	0	27	1	0	4	2	0	89
08:15 AM	2	58	0	36	1	0	2	0	1	100
08:30 AM	0	64	0	33	1	1	0	2	0	101
08:45 AM	0	57	0	27	1	0	0	0	0	85
Total	3	233	0	123	4	1	6	4	1	375
Grand Total	81	510	0	216	133	1	101	38	2	1082
Apprch %	13.7	86.3	0	61.7	38	0.3	71.6	27	1.4	
Total %	7.5	47.1	0	20	12.3	0.1	9.3	3.5	0.2	

Start Time	Brayton Avenue From North				Brayton Avenue From South				Somerset Middle School Drive From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:00 AM													
07:00 AM	1	70	0	71	16	8	0	24	0	0	0	0	95
07:15 AM	15	86	0	101	24	30	0	54	0	0	1	1	156
07:30 AM	36	84	0	120	20	58	0	78	49	14	0	63	261
07:45 AM	26	37	0	63	33	33	0	66	46	20	0	66	195
Total Volume	78	277	0	355	93	129	0	222	95	34	1	130	707
% App. Total	22	78	0		41.9	58.1	0		73.1	26.2	0.8		
PHF	.542	.805	.000	.740	.705	.556	.000	.712	.485	.425	.250	.492	.677

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File Name : 05225A  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

Groups Printed- Trucks & Buses

Start Time	Brayton Avenue From North			Brayton Avenue From South			Somerset Middle School Drive From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	2	0	1	0	0	0	0	0	3
07:30 AM	7	1	0	0	5	0	2	5	0	20
07:45 AM	2	0	0	0	1	0	4	4	0	11
Total	9	3	0	1	6	0	6	9	0	34
08:00 AM	0	0	0	2	0	0	0	0	0	2
08:15 AM	0	0	0	2	0	0	0	0	0	2
08:30 AM	0	0	0	1	0	0	0	0	0	1
08:45 AM	0	1	0	2	0	0	0	0	0	3
Total	0	1	0	7	0	0	0	0	0	8
Grand Total	9	4	0	8	6	0	6	9	0	42
Apprch %	69.2	30.8	0	57.1	42.9	0	40	60	0	
Total %	21.4	9.5	0	19	14.3	0	14.3	21.4	0	

Start Time	Brayton Avenue From North				Brayton Avenue From South				Somerset Middle School Drive From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:15 AM													
07:15 AM	0	2	0	2	1	0	0	1	0	0	0	0	3
07:30 AM	7	1	0	8	0	5	0	5	2	5	0	7	20
07:45 AM	2	0	0	2	0	1	0	1	4	4	0	8	11
08:00 AM	0	0	0	0	2	0	0	2	0	0	0	0	2
Total Volume	9	3	0	12	3	6	0	9	6	9	0	15	36
% App. Total	75	25	0		33.3	66.7	0		40	60	0		
PHF	.321	.375	.000	.375	.375	.300	.000	.450	.375	.450	.000	.469	.450

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File Name : 05225A  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Bikes by Direction

Start Time	Brayton Avenue From North			Brayton Avenue From South			Somerset Middle School Drive From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	2	0	0	0	0	0	0	0	0	2
07:30 AM	2	0	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	4	0	0	0	0	0	0	0	0	4
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	1	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	0	0	0	0	1
Grand Total	4	0	0	1	0	0	0	0	0	5
Apprch %	100	0	0	100	0	0	0	0	0	
Total %	80	0	0	20	0	0	0	0	0	

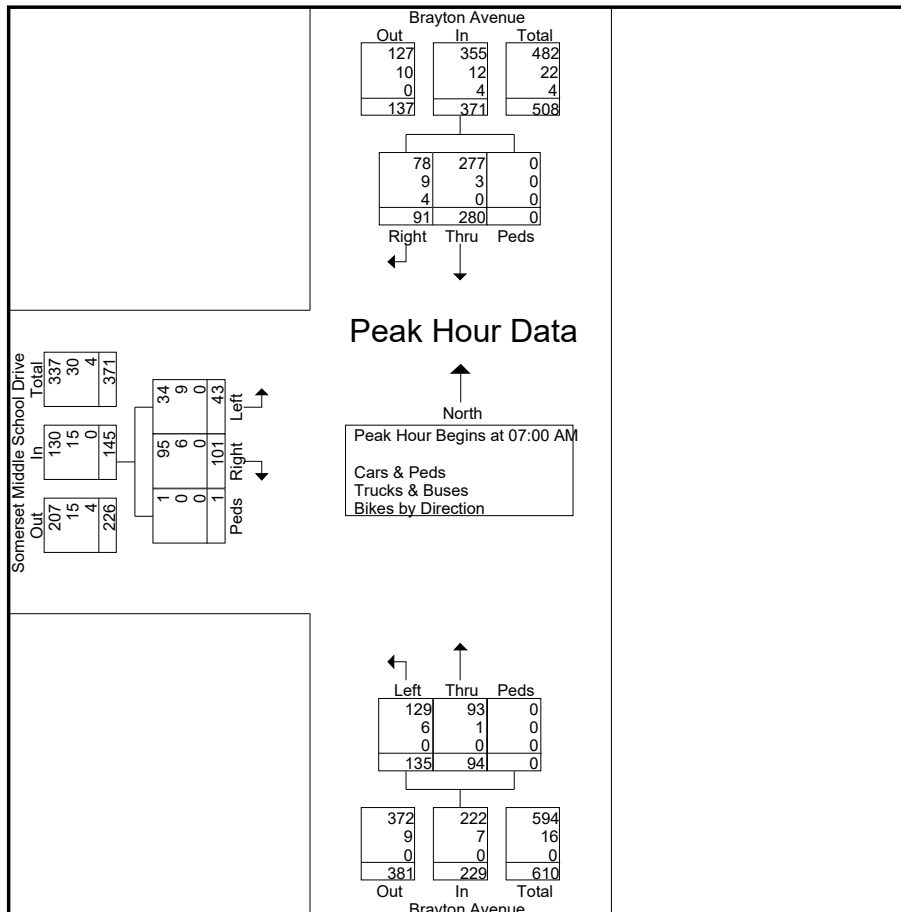
Start Time	Brayton Avenue From North				Brayton Avenue From South				Somerset Middle School Drive From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:00 AM													
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	2	0	0	2	0	0	0	0	0	0	0	0	2
07:30 AM	2	0	0	2	0	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	4	0	0	4	0	0	0	0	0	0	0	0	4
% App. Total	100	0	0		0	0	0		0	0	0		
PHF	.500	.000	.000	.500	.000	.000	.000	.000	.000	.000	.000	.000	.500

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 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Start Time	Brayton Avenue From North				Brayton Avenue From South				Somerset Middle School Drive From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:00 AM													
07:00 AM	1	70	0	71	16	8	0	24	0	0	0	0	95
07:15 AM	17	<b>88</b>	0	105	25	30	0	55	0	0	<b>1</b>	1	161
07:30 AM	<b>45</b>	85	0	<b>130</b>	20	<b>63</b>	0	<b>83</b>	<b>51</b>	19	0	70	<b>283</b>
07:45 AM	28	37	0	65	<b>33</b>	34	0	67	50	<b>24</b>	0	<b>74</b>	206
Total Volume	91	280	0	371	94	135	0	229	101	43	1	145	745
% App. Total	24.5	75.5	0		41	59	0		69.7	29.7	0.7		
PHF	.506	.795	.000	.713	.712	.536	.000	.690	.495	.448	.250	.490	.658
Cars & Peds	78	277	0	355	93	129	0	222	95	34	1	130	707
% Cars & Peds	85.7	98.9	0	95.7	98.9	95.6	0	96.9	94.1	79.1	100	89.7	94.9
Trucks & Buses	9	3	0	12	1	6	0	7	6	9	0	15	34
% Trucks & Buses	9.9	1.1	0	3.2	1.1	4.4	0	3.1	5.9	20.9	0	10.3	4.6
Bikes by Direction	4	0	0	4	0	0	0	0	0	0	0	0	4
% Bikes by Direction	4.4	0	0	1.1	0	0	0	0	0	0	0	0	0.5



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File Name : 05225AA  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

Start Time	Brayton Avenue From North			Brayton Avenue From South			Somerset Middle School Drive From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
02:00 PM	3	48	0	49	7	0	3	0	0	110
02:15 PM	3	44	0	60	10	0	0	2	0	119
02:30 PM	15	44	0	51	7	0	2	4	0	123
02:45 PM	9	46	0	60	6	0	49	28	0	198
<b>Total</b>	<b>30</b>	<b>182</b>	<b>0</b>	<b>220</b>	<b>30</b>	<b>0</b>	<b>54</b>	<b>34</b>	<b>0</b>	<b>550</b>
03:00 PM	2	48	0	56	1	0	14	2	0	123
03:15 PM	1	44	0	65	3	0	8	3	0	124
03:30 PM	1	59	0	79	3	0	5	1	0	148
03:45 PM	1	48	0	85	2	0	8	0	0	144
<b>Total</b>	<b>5</b>	<b>199</b>	<b>0</b>	<b>285</b>	<b>9</b>	<b>0</b>	<b>35</b>	<b>6</b>	<b>0</b>	<b>539</b>
04:00 PM	7	54	0	78	20	0	7	0	0	166
04:15 PM	13	59	0	103	26	0	8	1	0	210
04:30 PM	6	53	0	94	11	0	28	40	0	232
04:45 PM	6	52	0	94	14	0	5	0	0	171
<b>Total</b>	<b>32</b>	<b>218</b>	<b>0</b>	<b>369</b>	<b>71</b>	<b>0</b>	<b>48</b>	<b>41</b>	<b>0</b>	<b>779</b>
05:00 PM	3	52	0	87	10	0	15	6	0	173
05:15 PM	9	57	0	80	11	0	2	1	0	160
05:30 PM	4	50	0	76	4	0	3	0	0	137
05:45 PM	1	44	0	78	7	0	3	0	0	133
<b>Total</b>	<b>17</b>	<b>203</b>	<b>0</b>	<b>321</b>	<b>32</b>	<b>0</b>	<b>23</b>	<b>7</b>	<b>0</b>	<b>603</b>
<b>Grand Total</b>	<b>84</b>	<b>802</b>	<b>0</b>	<b>1195</b>	<b>142</b>	<b>0</b>	<b>160</b>	<b>88</b>	<b>0</b>	<b>2471</b>
Apprch %	9.5	90.5	0	89.4	10.6	0	64.5	35.5	0	
Total %	3.4	32.5	0	48.4	5.7	0	6.5	3.6	0	
Cars & Peds	73	794	0	1179	135	0	152	77	0	2410
% Cars & Peds	86.9	99	0	98.7	95.1	0	95	87.5	0	97.5
Trucks & Buses	11	7	0	12	7	0	7	11	0	55
% Trucks & Buses	13.1	0.9	0	1	4.9	0	4.4	12.5	0	2.2
Bikes by Direction	0	1	0	4	0	0	1	0	0	6
% Bikes by Direction	0	0.1	0	0.3	0	0	0.6	0	0	0.2

Start Time	Brayton Avenue From North				Brayton Avenue From South				Somerset Middle School Drive From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	

Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:45 PM

02:45 PM	9	46	0	55	60	6	0	66	49	28	0	77	198
03:00 PM	2	48	0	50	56	1	0	57	14	2	0	16	123
03:15 PM	1	44	0	45	65	3	0	68	8	3	0	11	124
03:30 PM	1	59	0	60	79	3	0	82	5	1	0	6	148
Total Volume	13	197	0	210	260	13	0	273	76	34	0	110	593
% App. Total	6.2	93.8	0		95.2	4.8	0		69.1	30.9	0		
PHF	.361	.835	.000	.875	.823	.542	.000	.832	.388	.304	.000	.357	.749
Cars & Peds	11	193	0	204	254	11	0	265	69	23	0	92	561
% Cars & Peds	84.6	98.0	0	97.1	97.7	84.6	0	97.1	90.8	67.6	0	83.6	94.6
Trucks & Buses	2	4	0	6	5	2	0	7	7	11	0	18	31
% Trucks & Buses	15.4	2.0	0	2.9	1.9	15.4	0	2.6	9.2	32.4	0	16.4	5.2
Bikes by Direction	0	0	0	0	1	0	0	1	0	0	0	0	1
% Bikes by Direction	0	0	0	0	0.4	0	0	0.4	0	0	0	0	0.2

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File Name : 05225AA  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 2

Start Time	Brayton Avenue From North				Brayton Avenue From South				Somerset Middle School Drive From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:15 PM													
04:15 PM	13	59	0	72	103	26	0	129	8	1	0	9	210
04:30 PM	6	53	0	59	94	11	0	105	28	40	0	68	232
04:45 PM	6	52	0	58	94	14	0	108	5	0	0	5	171
05:00 PM	3	52	0	55	87	10	0	97	15	6	0	21	173
Total Volume	28	216	0	244	378	61	0	439	56	47	0	103	786
% App. Total	11.5	88.5	0		86.1	13.9	0		54.4	45.6	0		
PHF	.538	.915	.000	.847	.917	.587	.000	.851	.500	.294	.000	.379	.847
Cars & Peds	28	216	0	244	372	61	0	433	55	47	0	102	779
% Cars & Peds	100	100	0	100	98.4	100	0	98.6	98.2	100	0	99.0	99.1
Trucks & Buses	0	0	0	0	3	0	0	3	0	0	0	0	3
% Trucks & Buses	0	0	0	0	0.8	0	0	0.7	0	0	0	0	0.4
Bikes by Direction	0	0	0	0	3	0	0	3	1	0	0	1	4
% Bikes by Direction	0	0	0	0	0.8	0	0	0.7	1.8	0	0	1.0	0.5

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File Name : 05225AA  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

## Groups Printed- Cars &amp; Peds

Start Time	Brayton Avenue From North			Brayton Avenue From South			Somerset Middle School Drive From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
02:00 PM	3	45	0	49	7	0	3	0	0	107
02:15 PM	3	44	0	60	10	0	0	2	0	119
02:30 PM	6	44	0	51	2	0	2	4	0	109
02:45 PM	8	46	0	57	6	0	44	17	0	178
Total	20	179	0	217	25	0	49	23	0	513
03:00 PM	1	45	0	54	1	0	14	2	0	117
03:15 PM	1	44	0	64	2	0	7	3	0	121
03:30 PM	1	58	0	79	2	0	4	1	0	145
03:45 PM	1	48	0	83	2	0	8	0	0	142
Total	4	195	0	280	7	0	33	6	0	525
04:00 PM	7	54	0	78	20	0	7	0	0	166
04:15 PM	13	59	0	99	26	0	7	1	0	205
04:30 PM	6	53	0	92	11	0	28	40	0	230
04:45 PM	6	52	0	94	14	0	5	0	0	171
Total	32	218	0	363	71	0	47	41	0	772
05:00 PM	3	52	0	87	10	0	15	6	0	173
05:15 PM	9	57	0	80	11	0	2	1	0	160
05:30 PM	4	50	0	75	4	0	3	0	0	136
05:45 PM	1	43	0	77	7	0	3	0	0	131
Total	17	202	0	319	32	0	23	7	0	600
Grand Total	73	794	0	1179	135	0	152	77	0	2410
Apprch %	8.4	91.6	0	89.7	10.3	0	66.4	33.6	0	
Total %	3	32.9	0	48.9	5.6	0	6.3	3.2	0	

Start Time	Brayton Avenue From North				Brayton Avenue From South				Somerset Middle School Drive From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 02:45 PM													
02:45 PM	8	46	0	54	57	6	0	63	44	17	0	61	178
03:00 PM	1	45	0	46	54	1	0	55	14	2	0	16	117
03:15 PM	1	44	0	45	64	2	0	66	7	3	0	10	121
03:30 PM	1	58	0	59	79	2	0	81	4	1	0	5	145
Total Volume	11	193	0	204	254	11	0	265	69	23	0	92	561
% App. Total	5.4	94.6	0		95.8	4.2	0		75	25	0		
PHF	.344	.832	.000	.864	.804	.458	.000	.818	.392	.338	.000	.377	.788

## Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

## Peak Hour for Entire Intersection Begins at 04:15 PM

04:15 PM	13	59	0	72	99	26	0	125	7	1	0	8	205
04:30 PM	6	53	0	59	92	11	0	103	28	40	0	68	230
04:45 PM	6	52	0	58	94	14	0	108	5	0	0	5	171
05:00 PM	3	52	0	55	87	10	0	97	15	6	0	21	173
Total Volume	28	216	0	244	372	61	0	433	55	47	0	102	779
% App. Total	11.5	88.5	0		85.9	14.1	0		53.9	46.1	0		
PHF	.538	.915	.000	.847	.939	.587	.000	.866	.491	.294	.000	.375	.847

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City, State: Somerset, MA  
Client: Pare/A. Archer

File Name : 05225AA  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

Groups Printed- Trucks & Buses

Start Time	Brayton Avenue From North			Brayton Avenue From South			Somerset Middle School Drive From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
02:00 PM	0	3	0	0	0	0	0	0	0	3
02:15 PM	0	0	0	0	0	0	0	0	0	0
02:30 PM	9	0	0	0	5	0	0	0	0	14
02:45 PM	1	0	0	2	0	0	5	11	0	19
Total	10	3	0	2	5	0	5	11	0	36
03:00 PM	1	3	0	2	0	0	0	0	0	6
03:15 PM	0	0	0	1	1	0	1	0	0	3
03:30 PM	0	1	0	0	1	0	1	0	0	3
03:45 PM	0	0	0	2	0	0	0	0	0	2
Total	1	4	0	5	2	0	2	0	0	14
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	2	0	0	0	0	0	2
04:30 PM	0	0	0	1	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	3	0	0	0	0	0	3
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	1	0	0	0	0	0	1
05:45 PM	0	0	0	1	0	0	0	0	0	1
Total	0	0	0	2	0	0	0	0	0	2
Grand Total	11	7	0	12	7	0	7	11	0	55
Apprch %	61.1	38.9	0	63.2	36.8	0	38.9	61.1	0	
Total %	20	12.7	0	21.8	12.7	0	12.7	20	0	

Start Time	Brayton Avenue From North				Brayton Avenue From South				Somerset Middle School Drive From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 02:30 PM													
02:30 PM	9	0	0	9	0	5	0	5	0	0	0	0	14
02:45 PM	1	0	0	1	2	0	0	2	5	11	0	16	19
03:00 PM	1	3	0	4	2	0	0	2	0	0	0	0	6
03:15 PM	0	0	0	0	1	1	0	2	1	0	0	1	3
Total Volume	11	3	0	14	5	6	0	11	6	11	0	17	42
% App. Total	78.6	21.4	0		45.5	54.5	0		35.3	64.7	0		
PHF	.306	.250	.000	.389	.625	.300	.000	.550	.300	.250	.000	.266	.553

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:00 PM													
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
04:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	3	0	0	3	0	0	0	0	3
% App. Total	0	0	0		100	0	0		0	0	0		
PHF	.000	.000	.000	.000	.375	.000	.000	.375	.000	.000	.000	.000	.375



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 Client: Pare/A. Archer

File Name : 05225AA  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Bikes by Direction

Start Time	Brayton Avenue From North			Brayton Avenue From South			Somerset Middle School Drive From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
02:00 PM	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	1	0	0	0	0	0	1
Total	0	0	0	1	0	0	0	0	0	1
03:00 PM	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	2	0	0	1	0	0	3
04:30 PM	0	0	0	1	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	3	0	0	1	0	0	4
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	1	0	0	0	0	0	0	0	1
Total	0	1	0	0	0	0	0	0	0	1
Grand Total	0	1	0	4	0	0	1	0	0	6
Apprch %	0	100	0	100	0	0	100	0	0	
Total %	0	16.7	0	66.7	0	0	16.7	0	0	

Start Time	Brayton Avenue From North				Brayton Avenue From South				Somerset Middle School Drive From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 02:00 PM													
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
Total Volume	0	0	0	0	1	0	0	1	0	0	0	0	1
% App. Total	0	0	0		100	0	0		0	0	0		
PHF	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.250

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:00 PM													
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	2	0	0	2	1	0	0	1	3
04:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	3	0	0	3	1	0	0	1	4
% App. Total	0	0	0		100	0	0		100	0	0		
PHF	.000	.000	.000	.000	.375	.000	.000	.375	.250	.000	.000	.250	.333

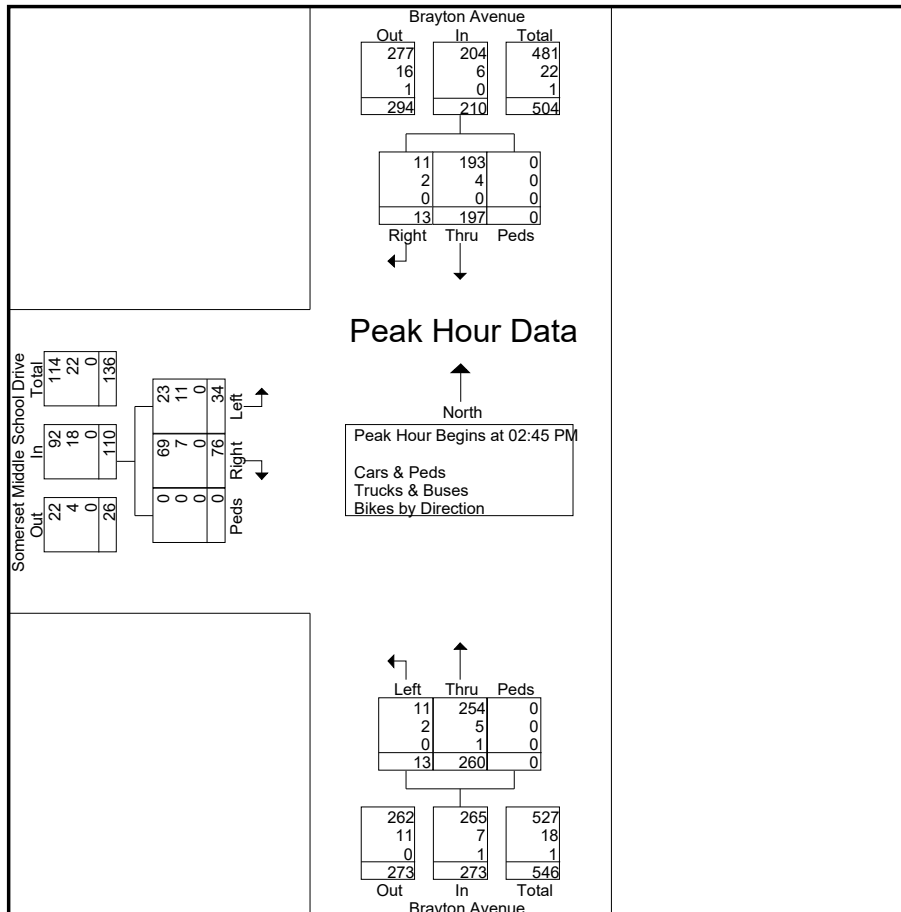
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File Name : 05225AA  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

Start Time	Brayton Avenue From North				Brayton Avenue From South				Somerset Middle School Drive From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 02:45 PM													
02:45 PM	9	46	0	55	60	6	0	66	49	28	0	77	198
03:00 PM	2	48	0	50	56	1	0	57	14	2	0	16	123
03:15 PM	1	44	0	45	65	3	0	68	8	3	0	11	124
03:30 PM	1	59	0	60	79	3	0	82	5	1	0	6	148
Total Volume	13	197	0	210	260	13	0	273	76	34	0	110	593
% App. Total	6.2	93.8	0		95.2	4.8	0		69.1	30.9	0		
PHF	.361	.835	.000	.875	.823	.542	.000	.832	.388	.304	.000	.357	.749
Cars & Peds	11	193	0	204	254	11	0	265	69	23	0	92	561
% Cars & Peds	84.6	98.0	0	97.1	97.7	84.6	0	97.1	90.8	67.6	0	83.6	94.6
Trucks & Buses	2	4	0	6	5	2	0	7	7	11	0	18	31
% Trucks & Buses	15.4	2.0	0	2.9	1.9	15.4	0	2.6	9.2	32.4	0	16.4	5.2
Bikes by Direction	0	0	0	0	1	0	0	1	0	0	0	0	1
% Bikes by Direction	0	0	0	0	0.4	0	0	0.4	0	0	0	0	0.2

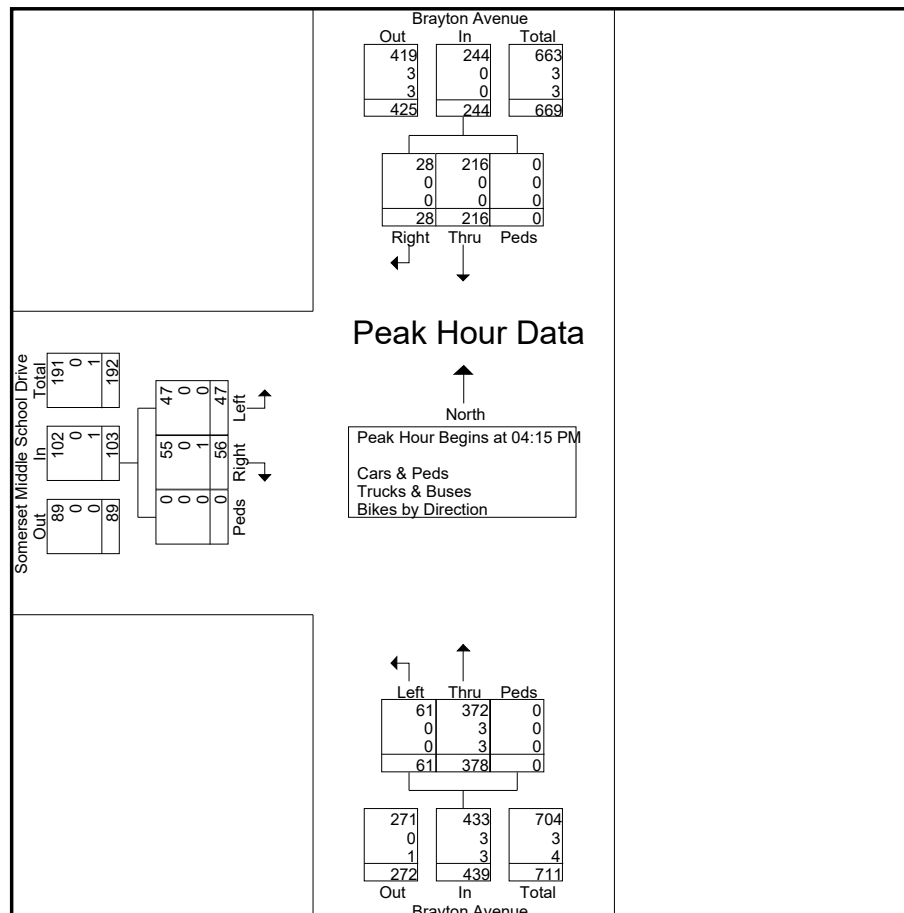


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File Name : 05225AA  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 2

Start Time	Brayton Avenue From North				Brayton Avenue From South				Somerset Middle School Drive From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:15 PM													
04:15 PM	13	59	0	72	103	26	0	129	8	1	0	9	210
04:30 PM	6	53	0	59	94	11	0	105	28	40	0	68	232
04:45 PM	6	52	0	58	94	14	0	108	5	0	0	5	171
05:00 PM	3	52	0	55	87	10	0	97	15	6	0	21	173
Total Volume	28	216	0	244	378	61	0	439	56	47	0	103	786
% App. Total	11.5	88.5	0		86.1	13.9	0		54.4	45.6	0		
PHF	.538	.915	.000	.847	.917	.587	.000	.851	.500	.294	.000	.379	.847
Cars & Peds	28	216	0	244	372	61	0	433	55	47	0	102	779
% Cars & Peds	100	100	0	100	98.4	100	0	98.6	98.2	100	0	99.0	99.1
Trucks & Buses	0	0	0	0	3	0	0	3	0	0	0	0	3
% Trucks & Buses	0	0	0	0	0.8	0	0	0.7	0	0	0	0	0.4
Bikes by Direction	0	0	0	0	3	0	0	3	1	0	0	1	4
% Bikes by Direction	0	0	0	0	0.8	0	0	0.7	1.8	0	0	1.0	0.5



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 Client: Pare/A. Archer

File Name : 05225B  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

Start Time	Brayton Avenue From North				Read Street From East				Brayton Avenue From South				Read Street From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
07:00 AM	9	59	3	1	0	59	18	0	21	19	10	0	10	46	6	0	261
07:15 AM	12	76	0	0	2	64	15	0	15	31	8	0	11	28	17	1	280
07:30 AM	29	96	3	0	10	48	17	2	7	40	7	0	16	19	33	0	327
07:45 AM	29	60	8	0	8	42	14	0	16	39	7	0	13	32	15	0	283
<b>Total</b>	<b>79</b>	<b>291</b>	<b>14</b>	<b>1</b>	<b>20</b>	<b>213</b>	<b>64</b>	<b>2</b>	<b>59</b>	<b>129</b>	<b>32</b>	<b>0</b>	<b>50</b>	<b>125</b>	<b>71</b>	<b>1</b>	<b>1151</b>
08:00 AM	9	50	0	0	0	34	17	1	15	23	12	0	14	15	8	0	198
08:15 AM	11	53	1	0	3	56	12	0	11	25	7	0	19	37	14	0	249
08:30 AM	13	46	1	0	3	40	17	0	16	24	12	0	19	26	8	0	225
08:45 AM	9	54	2	0	1	39	16	0	13	24	5	0	21	29	6	0	219
<b>Total</b>	<b>42</b>	<b>203</b>	<b>4</b>	<b>0</b>	<b>7</b>	<b>169</b>	<b>62</b>	<b>1</b>	<b>55</b>	<b>96</b>	<b>36</b>	<b>0</b>	<b>73</b>	<b>107</b>	<b>36</b>	<b>0</b>	<b>891</b>
<b>Grand Total</b>	<b>121</b>	<b>494</b>	<b>18</b>	<b>1</b>	<b>27</b>	<b>382</b>	<b>126</b>	<b>3</b>	<b>114</b>	<b>225</b>	<b>68</b>	<b>0</b>	<b>123</b>	<b>232</b>	<b>107</b>	<b>1</b>	<b>2042</b>
Apprch %	19.1	77.9	2.8	0.2	5	71	23.4	0.6	28	55.3	16.7	0	26.6	50.1	23.1	0.2	
Total %	5.9	24.2	0.9	0	1.3	18.7	6.2	0.1	5.6	11	3.3	0	6	11.4	5.2	0	
Cars & Peds	119	489	18	1	25	375	126	3	107	217	67	0	121	224	103	1	1996
% Cars & Peds	98.3	99	100	100	92.6	98.2	100	100	93.9	96.4	98.5	0	98.4	96.6	96.3	100	97.7
Trucks & Buses	2	5	0	0	2	7	0	0	7	7	1	0	2	7	4	0	44
% Trucks & Buses	1.7	1	0	0	7.4	1.8	0	0	6.1	3.1	1.5	0	1.6	3	3.7	0	2.2
Bikes by Direction	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	2
% Bikes by Direction	0	0	0	0	0	0	0	0	0	0.4	0	0	0	0.4	0	0	0.1

Start Time	Brayton Avenue From North					Read Street From East					Brayton Avenue From South					Read Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	9	59	3	1	72	0	59	18	0	77	21	19	10	0	50	10	46	6	0	62	261
07:15 AM	12	76	0	0	88	2	64	15	0	81	15	31	8	0	54	11	28	17	1	57	280
07:30 AM	29	96	3	0	128	10	48	17	2	77	7	40	7	0	54	16	19	33	0	68	327
07:45 AM	29	60	8	0	97	8	42	14	0	64	16	39	7	0	62	13	32	15	0	60	283
Total Volume	79	291	14	1	385	20	213	64	2	299	59	129	32	0	220	50	125	71	1	247	1151
% App. Total	20.5	75.6	3.6	0.3		6.7	71.2	21.4	0.7		26.8	58.6	14.5	0		20.2	50.6	28.7	0.4		
PHF	.681	.758	.438	.250	.752	.500	.832	.889	.250	.923	.702	.806	.800	.000	.887	.781	.679	.538	.250	.908	.880
Cars & Peds	77	288	14	1	380	19	208	64	2	293	54	127	32	0	213	49	119	69	1	238	1124
% Cars & Peds																					
Trucks & Buses	2	3	0	0	5	1	5	0	0	6	5	2	0	0	7	1	5	2	0	8	26
% Trucks & Buses	2.5	1.0	0	0	1.3	5.0	2.3	0	0	2.0	8.5	1.6	0	0	3.2	2.0	4.0	2.8	0	3.2	2.3
Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
% Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0.4	0.1

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Client: Pare/A. Archer

File Name : 05225B  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

## Groups Printed- Cars &amp; Peds

Start Time	Brayton Avenue From North				Read Street From East				Brayton Avenue From South				Read Street From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
07:00 AM	9	59	3	1	0	57	18	0	18	19	10	0	9	43	6	0	252
07:15 AM	12	74	0	0	2	62	15	0	15	31	8	0	11	26	17	1	274
07:30 AM	29	95	3	0	9	48	17	2	6	39	7	0	16	19	31	0	321
07:45 AM	27	60	8	0	8	41	14	0	15	38	7	0	13	31	15	0	277
Total	77	288	14	1	19	208	64	2	54	127	32	0	49	119	69	1	1124
08:00 AM	9	49	0	0	0	34	17	1	13	22	12	0	14	15	7	0	193
08:15 AM	11	53	1	0	2	55	12	0	11	22	7	0	19	36	14	0	243
08:30 AM	13	46	1	0	3	39	17	0	16	23	11	0	18	25	8	0	220
08:45 AM	9	53	2	0	1	39	16	0	13	23	5	0	21	29	5	0	216
Total	42	201	4	0	6	167	62	1	53	90	35	0	72	105	34	0	872
Grand Total	119	489	18	1	25	375	126	3	107	217	67	0	121	224	103	1	1996
Apprch %	19	78	2.9	0.2	4.7	70.9	23.8	0.6	27.4	55.5	17.1	0	26.9	49.9	22.9	0.2	
Total %	6	24.5	0.9	0.1	1.3	18.8	6.3	0.2	5.4	10.9	3.4	0	6.1	11.2	5.2	0.1	

Start Time	Brayton Avenue From North					Read Street From East					Brayton Avenue From South					Read Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	9	59	3	1	72	0	57	18	0	75	18	19	10	0	47	9	43	6	0	58	252
07:15 AM	12	74	0	0	86	2	62	15	0	79	15	31	8	0	54	11	26	17	1	55	274
07:30 AM	29	95	3	0	127	9	48	17	2	76	6	39	7	0	52	16	19	31	0	66	321
07:45 AM	27	60	8	0	95	8	41	14	0	63	15	38	7	0	60	13	31	15	0	59	277
Total Volume	77	288	14	1	380	19	208	64	2	293	54	127	32	0	213	49	119	69	1	238	1124
% App. Total	20.3	75.8	3.7	0.3		6.5	71	21.8	0.7		25.4	59.6	15	0		20.6	50	29	0.4		
PHF	.664	.758	.438	.250	.748	.528	.839	.889	.250	.927	.750	.814	.800	.000	.888	.766	.692	.556	.250	.902	.875

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N/S: Brayton Avenue  
 E/W: Read Street  
 City, State: Somerset, MA  
 Client: Pare/A. Archer

File Name : 05225B  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Trucks & Buses

Start Time	Brayton Avenue From North				Read Street From East				Brayton Avenue From South				Read Street From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
07:00 AM	0	0	0	0	0	2	0	0	3	0	0	0	1	2	0	0	8
07:15 AM	0	2	0	0	0	2	0	0	0	0	0	0	0	2	0	0	6
07:30 AM	0	1	0	0	1	0	0	0	1	1	0	0	0	0	2	0	6
07:45 AM	2	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	6
<b>Total</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>26</b>
08:00 AM	0	1	0	0	0	0	0	0	2	1	0	0	0	0	1	0	5
08:15 AM	0	0	0	0	1	1	0	0	0	2	0	0	0	1	0	0	5
08:30 AM	0	0	0	0	0	1	0	0	0	1	1	0	1	1	0	0	5
08:45 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	3
<b>Total</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>18</b>
<b>Grand Total</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>0</b>	<b>2</b>	<b>7</b>	<b>4</b>	<b>0</b>	<b>44</b>
Apprch %	28.6	71.4	0	0	22.2	77.8	0	0	46.7	46.7	6.7	0	15.4	53.8	30.8	0	
Total %	4.5	11.4	0	0	4.5	15.9	0	0	15.9	15.9	2.3	0	4.5	15.9	9.1	0	

Start Time	Brayton Avenue From North					Read Street From East					Brayton Avenue From South					Read Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	0	0	0	0	0	0	2	0	0	2	3	0	0	0	3	1	2	0	0	3	8
07:15 AM	0	2	0	0	2	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	6
07:30 AM	0	1	0	0	1	1	0	0	0	1	1	1	0	0	2	0	0	2	0	2	6
07:45 AM	2	0	0	0	2	0	1	0	0	1	1	1	0	0	2	0	1	0	0	1	6
<b>Total Volume</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>1</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>8</b>	<b>26</b>
% App. Total	40	60	0	0		16.7	83.3	0	0		71.4	28.6	0	0		12.5	62.5	25	0		
PHF	.250	.375	.000	.000	.625	.250	.625	.000	.000	.750	.417	.500	.000	.000	.583	.250	.625	.250	.000	.667	.813

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 City, State: Somerset, MA  
 Client: Pare/A. Archer

File Name : 05225B  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Bikes by Direction

Start Time	Brayton Avenue From North				Read Street From East				Brayton Avenue From South				Read Street From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>Grand Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>
Apprch %	0	0	0	0	0	0	0	0	0	100	0	0	0	100	0	0	
Total %	0	0	0	0	0	0	0	0	0	50	0	0	0	50	0	0	

Start Time	Brayton Avenue From North					Read Street From East					Brayton Avenue From South					Read Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0		
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250	.250

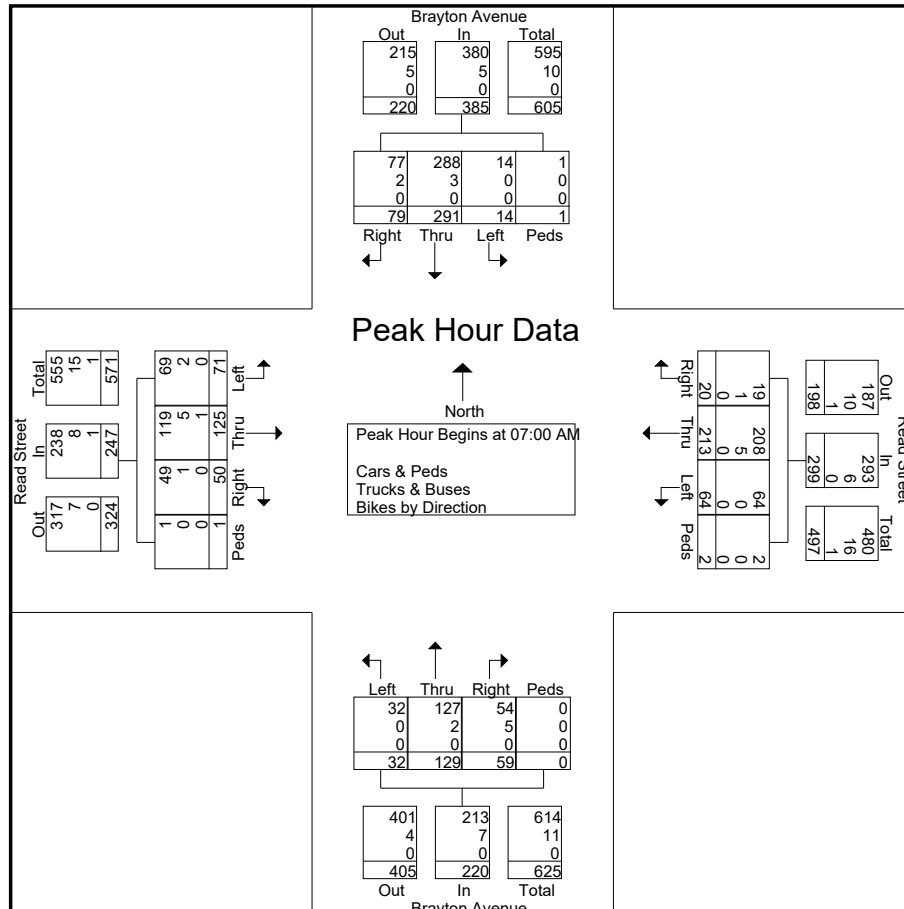
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Client: Pare/A. Archer

File Name : 05225B  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

Start Time	Brayton Avenue From North					Read Street From East					Brayton Avenue From South					Read Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	9	59	3	1	72	0	59	18	0	77	21	19	10	0	50	10	46	6	0	62	261
07:15 AM	12	76	0	0	88	2	64	15	0	81	15	31	8	0	54	11	28	17	1	57	280
07:30 AM	29	96	3	0	128	10	48	17	2	77	7	40	7	0	54	16	19	33	0	68	327
07:45 AM	29	60	8	0	97	8	42	14	0	64	16	39	7	0	62	13	32	15	0	60	283
Total Volume	79	291	14	1	385	20	213	64	2	299	59	129	32	0	220	50	125	71	1	247	1151
% App. Total	20.5	75.6	3.6	0.3		6.7	71.2	21.4	0.7		26.8	58.6	14.5	0		20.2	50.6	28.7	0.4		
PHF	.681	.758	.438	.250	.752	.500	.832	.889	.250	.923	.702	.806	.800	.000	.887	.781	.679	.538	.250	.908	.880
Cars & Peds	77	288	14	1	380	19	208	64	2	293	54	127	32	0	213	49	119	69	1	238	1124
% Cars & Peds																					
Trucks & Buses	2	3	0	0	5	1	5	0	0	6	5	2	0	0	7	1	5	2	0	8	26
% Trucks & Buses	2.5	1.0	0	0	1.3	5.0	2.3	0	0	2.0	8.5	1.6	0	0	3.2	2.0	4.0	2.8	0	3.2	2.3
Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
% Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0.4	0.1





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 Client: Pare/A. Archer

File Name : 05225BB  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

Start Time	Brayton Avenue From North				Read Street From East				Brayton Avenue From South				Read Street From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
02:00 PM	15	40	0	0	1	70	20	0	30	40	11	0	11	49	20	0	307
02:15 PM	19	48	1	0	6	82	29	2	25	48	11	0	12	31	22	0	336
02:30 PM	10	32	0	0	4	51	20	0	36	49	8	0	11	52	13	0	286
02:45 PM	33	59	8	1	0	52	26	0	23	48	11	0	13	35	15	0	324
<b>Total</b>	<b>77</b>	<b>179</b>	<b>9</b>	<b>1</b>	<b>11</b>	<b>255</b>	<b>95</b>	<b>2</b>	<b>114</b>	<b>185</b>	<b>41</b>	<b>0</b>	<b>47</b>	<b>167</b>	<b>70</b>	<b>0</b>	<b>1253</b>
03:00 PM	20	42	3	1	4	37	14	0	37	49	17	0	8	35	11	0	278
03:15 PM	14	38	1	0	4	32	23	1	32	45	12	0	16	51	23	0	292
03:30 PM	16	41	0	0	4	38	12	0	19	53	16	0	20	53	16	0	288
03:45 PM	12	36	1	0	3	46	15	0	24	56	13	0	14	59	20	0	299
<b>Total</b>	<b>62</b>	<b>157</b>	<b>5</b>	<b>1</b>	<b>15</b>	<b>153</b>	<b>64</b>	<b>1</b>	<b>112</b>	<b>203</b>	<b>58</b>	<b>0</b>	<b>58</b>	<b>198</b>	<b>70</b>	<b>0</b>	<b>1157</b>
04:00 PM	15	40	3	0	7	64	11	0	19	69	16	0	19	61	24	0	348
04:15 PM	22	47	1	1	9	39	14	0	20	86	15	0	11	75	28	0	368
04:30 PM	24	54	7	0	9	37	19	1	37	67	16	0	13	58	26	0	368
04:45 PM	14	37	2	0	6	61	15	0	35	76	10	0	14	60	29	0	359
<b>Total</b>	<b>75</b>	<b>178</b>	<b>13</b>	<b>1</b>	<b>31</b>	<b>201</b>	<b>59</b>	<b>1</b>	<b>111</b>	<b>298</b>	<b>57</b>	<b>0</b>	<b>57</b>	<b>254</b>	<b>107</b>	<b>0</b>	<b>1443</b>
05:00 PM	20	43	5	0	6	62	17	0	26	71	30	0	10	59	27	0	376
05:15 PM	11	37	3	0	6	53	13	0	21	62	17	0	11	62	19	0	315
05:30 PM	16	41	1	0	4	72	20	0	27	53	9	0	10	54	21	0	328
05:45 PM	9	28	1	0	7	65	12	0	30	59	11	0	15	55	16	0	308
<b>Total</b>	<b>56</b>	<b>149</b>	<b>10</b>	<b>0</b>	<b>23</b>	<b>252</b>	<b>62</b>	<b>0</b>	<b>104</b>	<b>245</b>	<b>67</b>	<b>0</b>	<b>46</b>	<b>230</b>	<b>83</b>	<b>0</b>	<b>1327</b>
<b>Grand Total</b>	<b>270</b>	<b>663</b>	<b>37</b>	<b>3</b>	<b>80</b>	<b>861</b>	<b>280</b>	<b>4</b>	<b>441</b>	<b>931</b>	<b>223</b>	<b>0</b>	<b>208</b>	<b>849</b>	<b>330</b>	<b>0</b>	<b>5180</b>
Appreh %	27.7	68.1	3.8	0.3	6.5	70.3	22.9	0.3	27.6	58.4	14	0	15	61.2	23.8	0	
Total	5.2	12.8	0.7	0.1	1.5	16.6	5.4	0.1	8.5	18	4.3	0	4	16.4	6.4	0	
Cars & Peds	261	660	35	3	75	852	273	4	441	923	219	0	206	843	320	0	5115
% Cars & Peds	96.7	99.5	94.6	100	93.8	99	97.5	100	100	99.1	98.2	0	99	99.3	97	0	98.7
Trucks & Buses	8	2	2	0	5	9	7	0	0	7	4	0	2	5	8	0	59
% Trucks & Buses	3	0.3	5.4	0	6.2	1	2.5	0	0	0.8	1.8	0	1	0.6	2.4	0	1.1
Bikes by Direction	1	1	0	0	0	0	0	0	0	1	0	0	0	1	2	0	6
% Bikes by Direction	0.4	0.2	0	0	0	0	0	0	0	0.1	0	0	0	0.1	0.6	0	0.1

Start Time	Brayton Avenue From North					Read Street From East					Brayton Avenue From South					Read Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 02:00 PM																					
02:00 PM	15	40	0	0	55	1	70	20	0	91	30	40	11	0	81	11	49	20	0	80	307
02:15 PM	19	48	1	0	68	6	82	29	2	119	25	48	11	0	84	12	31	22	0	65	336
02:30 PM	10	32	0	0	42	4	51	20	0	75	36	49	8	0	93	11	52	13	0	76	286
02:45 PM	33	59	8	1	101	0	52	26	0	78	23	48	11	0	82	13	35	15	0	63	324
Total Volume	77	179	9	1	266	11	255	95	2	363	114	185	41	0	340	47	167	70	0	284	1253
% App. Total	28.9	67.3	3.4	0.4		3	70.2	26.2	0.6		33.5	54.4	12.1	0		16.5	58.8	24.6	0		
PHF	.583	.758	.281	.250	.658	.458	.777	.819	.250	.763	.792	.944	.932	.000	.914	.904	.803	.795	.000	.888	.932
Cars & Peds	74	177	7	1	259	11	247	93	2	353	114	182	40	0	336	47	166	65	0	278	1226
% Cars & Peds																					
Trucks & Buses	3	2	2	0	7	0	8	2	0	10	0	3	1	0	4	0	1	5	0	6	27
% Trucks & Buses	3.9	1.1	22.2	0	2.6	0	3.1	2.1	0	2.8	0	1.6	2.4	0	1.2	0	0.6	7.1	0	2.1	2.2
Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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File Name : 05225BB  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 2

Start Time	Brayton Avenue From North					Read Street From East					Brayton Avenue From South					Read Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:15 PM																					
04:15 PM	22	47	1	1	71	9	39	14	0	62	20	86	15	0	121	11	75	28	0	114	368
04:30 PM	24	54	7	0	85	9	37	19	1	66	37	67	16	0	120	13	58	26	0	97	368
04:45 PM	14	37	2	0	53	6	61	15	0	82	35	76	10	0	121	14	60	29	0	103	359
05:00 PM	20	43	5	0	68	6	62	17	0	85	26	71	30	0	127	10	59	27	0	96	376
Total Volume	80	181	15	1	277	30	199	65	1	295	118	300	71	0	489	48	252	110	0	410	1471
% App. Total	28.9	65.3	5.4	0.4		10.2	67.5	22	0.3		24.1	61.3	14.5	0		11.7	61.5	26.8	0		
PHF	.833	.838	.536	.250	.815	.833	.802	.855	.250	.868	.797	.872	.592	.000	.963	.857	.840	.948	.000	.899	.978
Cars & Peds	79	180	15	1	275	29	199	65	1	294	118	297	71	0	486	48	251	107	0	406	1461
% Cars & Peds																					
Trucks & Buses	0	0	0	0	0	1	0	0	0	1	0	2	0	0	2	0	1	1	0	2	5
% Trucks & Buses	0	0	0	0	0	3.3	0	0	0	0.3	0	0.7	0	0	0.4	0	0.4	0.9	0	0.5	0.3
Bikes by Direction	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	2	0	2	5
% Bikes by Direction	1.3	0.6	0	0	0.7	0	0	0	0	0	0	0.3	0	0	0.2	0	0	1.8	0	0.5	0.3

**Transportation Data Corporation**  
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N/S: Brayton Avenue  
 E/W: Read Street  
 City, State: Somerset, MA  
 Client: Pare/A. Archer

File Name : 05225BB  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Cars & Peds

Start Time	Brayton Avenue From North				Read Street From East				Brayton Avenue From South				Read Street From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
02:00 PM	14	39	0	0	1	69	20	0	30	40	11	0	11	49	20	0	304
02:15 PM	19	48	1	0	6	77	28	2	25	47	10	0	12	30	22	0	327
02:30 PM	10	32	0	0	4	49	20	0	36	48	8	0	11	52	9	0	279
02:45 PM	31	58	6	1	0	52	25	0	23	47	11	0	13	35	14	0	316
<b>Total</b>	<b>74</b>	<b>177</b>	<b>7</b>	<b>1</b>	<b>11</b>	<b>247</b>	<b>93</b>	<b>2</b>	<b>114</b>	<b>182</b>	<b>40</b>	<b>0</b>	<b>47</b>	<b>166</b>	<b>65</b>	<b>0</b>	<b>1226</b>
03:00 PM	18	42	3	1	3	37	13	0	37	49	16	0	8	34	11	0	272
03:15 PM	13	38	1	0	4	32	20	1	32	44	12	0	16	51	22	0	286
03:30 PM	14	41	0	0	2	38	12	0	19	53	14	0	18	53	16	0	280
03:45 PM	12	36	1	0	3	46	14	0	24	55	13	0	14	58	19	0	295
<b>Total</b>	<b>57</b>	<b>157</b>	<b>5</b>	<b>1</b>	<b>12</b>	<b>153</b>	<b>59</b>	<b>1</b>	<b>112</b>	<b>201</b>	<b>55</b>	<b>0</b>	<b>56</b>	<b>196</b>	<b>68</b>	<b>0</b>	<b>1133</b>
04:00 PM	15	40	3	0	7	63	11	0	19	69	16	0	19	61	24	0	347
04:15 PM	21	47	1	1	9	39	14	0	20	83	15	0	11	75	26	0	362
04:30 PM	24	53	7	0	8	37	19	1	37	67	16	0	13	57	26	0	365
04:45 PM	14	37	2	0	6	61	15	0	35	76	10	0	14	60	28	0	358
<b>Total</b>	<b>74</b>	<b>177</b>	<b>13</b>	<b>1</b>	<b>30</b>	<b>200</b>	<b>59</b>	<b>1</b>	<b>111</b>	<b>295</b>	<b>57</b>	<b>0</b>	<b>57</b>	<b>253</b>	<b>104</b>	<b>0</b>	<b>1432</b>
05:00 PM	20	43	5	0	6	62	17	0	26	71	30	0	10	59	27	0	376
05:15 PM	11	37	3	0	6	53	13	0	21	62	17	0	11	62	19	0	315
05:30 PM	16	41	1	0	3	72	20	0	27	53	9	0	10	52	21	0	325
05:45 PM	9	28	1	0	7	65	12	0	30	59	11	0	15	55	16	0	308
<b>Total</b>	<b>56</b>	<b>149</b>	<b>10</b>	<b>0</b>	<b>22</b>	<b>252</b>	<b>62</b>	<b>0</b>	<b>104</b>	<b>245</b>	<b>67</b>	<b>0</b>	<b>46</b>	<b>228</b>	<b>83</b>	<b>0</b>	<b>1324</b>
<b>Grand Total</b>	<b>261</b>	<b>660</b>	<b>35</b>	<b>3</b>	<b>75</b>	<b>852</b>	<b>273</b>	<b>4</b>	<b>441</b>	<b>923</b>	<b>219</b>	<b>0</b>	<b>206</b>	<b>843</b>	<b>320</b>	<b>0</b>	<b>5115</b>
Appreh %	27.2	68.8	3.6	0.3	6.2	70.8	22.7	0.3	27.9	58.3	13.8	0	15	61.6	23.4	0	
Total %	5.1	12.9	0.7	0.1	1.5	16.7	5.3	0.1	8.6	18	4.3	0	4	16.5	6.3	0	

Start Time	Brayton Avenue From North					Read Street From East					Brayton Avenue From South					Read Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 02:00 PM																					
02:00 PM	14	39	0	0	53	1	69	20	0	90	30	40	11	0	81	11	49	20	0	80	304
02:15 PM	19	48	1	0	68	6	77	28	2	113	25	47	10	0	82	12	30	22	0	64	327
02:30 PM	10	32	0	0	42	4	49	20	0	73	36	48	8	0	92	11	52	9	0	72	279
02:45 PM	31	58	6	1	96	0	52	25	0	77	23	47	11	0	81	13	35	14	0	62	316
Total Volume	74	177	7	1	259	11	247	93	2	353	114	182	40	0	336	47	166	65	0	278	1226
% App. Total	28.6	68.3	2.7	0.4		3.1	70	26.3	0.6		33.9	54.2	11.9	0		16.9	59.7	23.4	0		
PHF	.597	.763	.292	.250	.674	.458	.802	.830	.250	.781	.792	.948	.909	.000	.913	.904	.798	.739	.000	.869	.937

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:15 PM																					
04:15 PM	21	47	1	1	70	9	39	14	0	62	20	83	15	0	118	11	75	26	0	112	362
04:30 PM	24	53	7	0	84	8	37	19	1	65	37	67	16	0	120	13	57	26	0	96	365
04:45 PM	14	37	2	0	53	6	61	15	0	82	35	76	10	0	121	14	60	28	0	102	358
05:00 PM	20	43	5	0	68	6	62	17	0	85	26	71	30	0	127	10	59	27	0	96	376
Total Volume	79	180	15	1	275	29	199	65	1	294	118	297	71	0	486	48	251	107	0	406	1461
% App. Total	28.7	65.5	5.5	0.4		9.9	67.7	22.1	0.3		24.3	61.1	14.6	0		11.8	61.8	26.4	0		
PHF	.823	.849	.536	.250	.818	.806	.802	.855	.250	.865	.797	.895	.592	.000	.957	.857	.837	.955	.000	.906	.971

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N/S: Brayton Avenue  
 E/W: Read Street  
 City, State: Somerset, MA  
 Client: Pare/A. Archer

File Name : 05225BB  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Trucks & Buses

Start Time	Brayton Avenue From North				Read Street From East				Brayton Avenue From South				Read Street From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
02:00 PM	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3
02:15 PM	0	0	0	0	0	5	1	0	0	1	1	0	0	1	0	0	9
02:30 PM	0	0	0	0	0	2	0	0	0	1	0	0	0	0	4	0	7
02:45 PM	2	1	2	0	0	0	1	0	0	1	0	0	0	0	1	0	8
<b>Total</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>27</b>
03:00 PM	2	0	0	0	1	0	1	0	0	0	1	0	0	1	0	0	6
03:15 PM	1	0	0	0	0	0	3	0	0	1	0	0	0	0	1	0	6
03:30 PM	2	0	0	0	2	0	0	0	0	0	2	0	2	0	0	0	8
03:45 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1	0	4
<b>Total</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>24</b>
04:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
04:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>6</b>
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>
<b>Grand Total</b>	<b>8</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>9</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>8</b>	<b>0</b>	<b>59</b>
Appreh %	66.7	16.7	16.7	0	23.8	42.9	33.3	0	0	63.6	36.4	0	13.3	33.3	53.3	0	
Total %	13.6	3.4	3.4	0	8.5	15.3	11.9	0	0	11.9	6.8	0	3.4	8.5	13.6	0	

Start Time	Brayton Avenue From North					Read Street From East					Brayton Avenue From South					Read Street From West					Int. Total					
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total						
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1																										
Peak Hour for Entire Intersection Begins at 02:15 PM																										
02:15 PM	0	0	0	0	0	0	5	1	0	6	0	1	1	0	2	0	1	0	0	1	0	4	0	0	4	9
02:30 PM	0	0	0	0	0	0	2	0	0	2	0	1	0	0	1	0	0	4	0	0	0	4	0	0	4	7
02:45 PM	2	1	2	0	5	0	0	1	0	1	0	1	0	0	1	0	0	1	0	1	0	1	0	0	1	8
03:00 PM	2	0	0	0	2	1	0	1	0	2	0	0	1	0	1	0	1	0	0	1	0	1	0	0	1	6
Total Volume	4	1	2	0	7	1	7	3	0	11	0	3	2	0	5	0	2	5	0	7	0	7	0	0	7	30
% App. Total	57.1	14.3	28.6	0		9.1	63.6	27.3	0		0	60	40	0		0	28.6	71.4	0		0	28.6	71.4	0		
PHF	.500	.250	.250	.000	.350	.250	.350	.750	.000	.458	.000	.750	.500	.000	.625	.000	.500	.313	.000	.438					.833	

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																										
Peak Hour for Entire Intersection Begins at 04:00 PM																										
04:00 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	2	2
04:30 PM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	2
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1
Total Volume	0	0	0	0	0	1	1	0	0	2	0	2	0	0	2	0	1	1	0	2	0	2	0	0	6	
% App. Total	0	0	0	0	0	.50	.50	.00	.00		0	100	.00	.00		0	50	50	.00		0	50	50	.00		
PHF	.000	.000	.000	.000	.000	.250	.250	.000	.000	.500	.000	.250	.000	.000	.250	.000	.250	.250	.000	.500					.750	

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N/S: Brayton Avenue  
 E/W: Read Street  
 City, State: Somerset, MA  
 Client: Pare/A. Archer

File Name : 05225BB  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Bikes by Direction

Start Time	Brayton Avenue From North				Read Street From East				Brayton Avenue From South				Read Street From West				Int. Total	
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds		
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	4
04:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	1	0	0	0	0	0	0	0	0	1	0	0	0	2	0	5	5
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
Grand Total	1	1	0	0	0	0	0	0	0	0	1	0	0	0	2	0	6	6
Appreh %	50	50	0	0	0	0	0	0	0	0	100	0	0	33.3	66.7	0		
Total %	16.7	16.7	0	0	0	0	0	0	0	0	16.7	0	0	16.7	33.3	0		

Start Time	Brayton Avenue From North					Read Street From East					Brayton Avenue From South					Read Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 02:00 PM																					
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

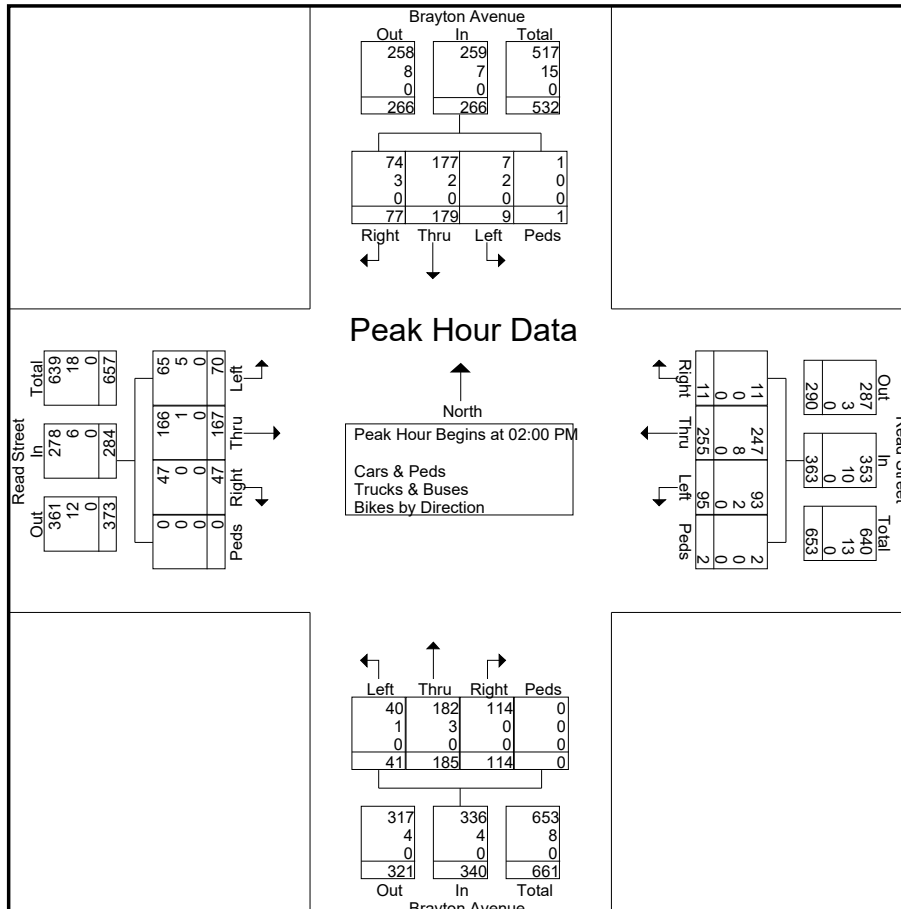
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:00 PM																					
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	2	0	2	4
04:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	2	0	2	5
% App. Total	50	50	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	100	0	0	0
PHF	.250	.250	.000	.000	.500	.000	.000	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.250	.000	.250	.313

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N/S: Brayton Avenue  
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 City, State: Somerset, MA  
 Client: Pare/A. Archer

File Name : 05225BB  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Start Time	Brayton Avenue From North					Read Street From East					Brayton Avenue From South					Read Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 02:00 PM																					
02:00 PM	15	40	0	0	55	1	70	20	0	91	30	40	11	0	81	11	49	20	0	80	307
02:15 PM	19	48	1	0	68	6	82	29	2	119	25	48	11	0	84	12	31	22	0	65	336
02:30 PM	10	32	0	0	42	4	51	20	0	75	36	49	8	0	93	11	52	13	0	76	286
02:45 PM	33	59	8	1	101	0	52	26	0	78	23	48	11	0	82	13	35	15	0	63	324
Total Volume	77	179	9	1	266	11	255	95	2	363	114	185	41	0	340	47	167	70	0	284	1253
% App. Total	28.9	67.3	3.4	0.4		3	70.2	26.2	0.6		33.5	54.4	12.1	0		16.5	58.8	24.6	0		
PHF	.583	.758	.281	.250	.658	.458	.777	.819	.250	.763	.792	.944	.932	.000	.914	.904	.803	.795	.000	.888	.932
Cars & Peds	74	177	7	1	259	11	247	93	2	353	114	182	40	0	336	47	166	65	0	278	1226
% Cars & Peds	3	2	2	0	7	0	8	2	0	10	0	3	1	0	4	0	1	5	0	6	27
Trucks & Buses	3.9	1.1	22.2	0	2.6	0	3.1	2.1	0	2.8	0	1.6	2.4	0	1.2	0	0.6	7.1	0	2.1	2.2
% Trucks & Buses																					
Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Bikes by Direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

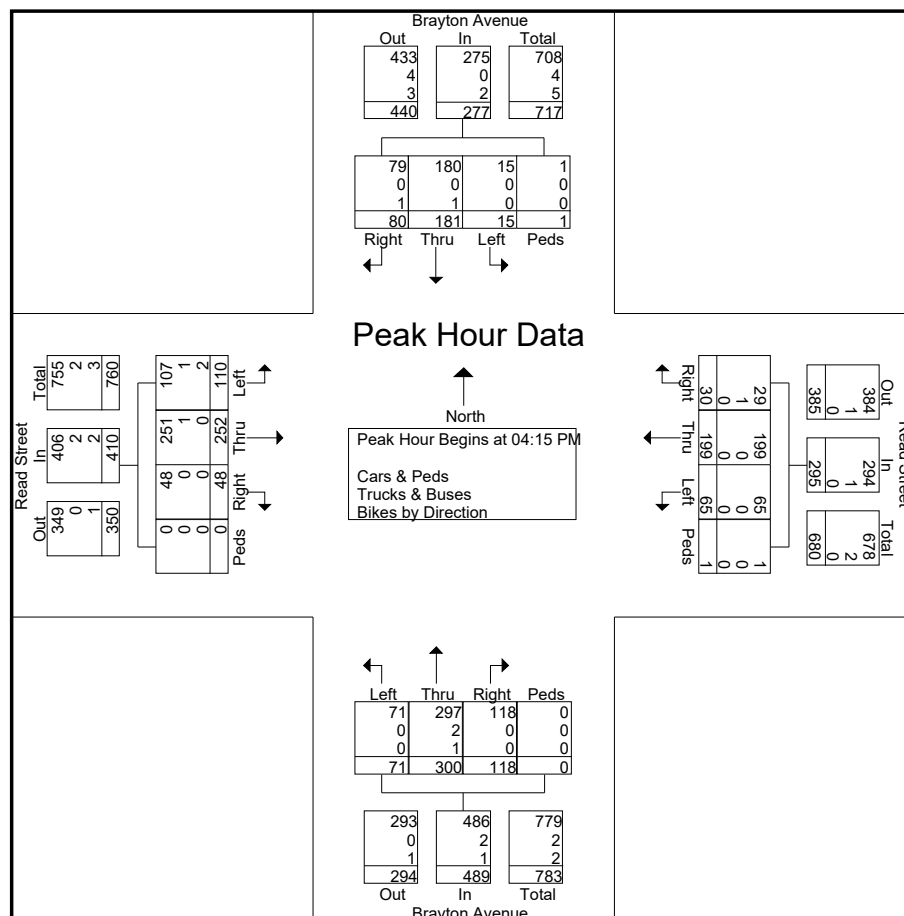


**Transportation Data Corporation**  
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N/S: Brayton Avenue  
 E/W: Read Street  
 City, State: Somerset, MA  
 Client: Pare/A. Archer

File Name : 05225BB  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 2

Start Time	Brayton Avenue From North					Read Street From East					Brayton Avenue From South					Read Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:15 PM																					
04:15 PM	22	47	1	1	71	9	39	14	0	62	20	86	15	0	121	11	75	28	0	114	368
04:30 PM	24	54	7	0	85	9	37	19	1	66	37	67	16	0	120	13	58	26	0	97	368
04:45 PM	14	37	2	0	53	6	61	15	0	82	35	76	10	0	121	14	60	29	0	103	359
05:00 PM	20	43	5	0	68	6	62	17	0	85	26	71	30	0	127	10	59	27	0	96	376
Total Volume	80	181	15	1	277	30	199	65	1	295	118	300	71	0	489	48	252	110	0	410	1471
% App. Total	28.9	65.3	5.4	0.4		10.2	67.5	22	0.3		24.1	61.3	14.5	0		11.7	61.5	26.8	0		
PHF	.833	.838	.536	.250	.815	.833	.802	.855	.250	.868	.797	.872	.592	.000	.963	.857	.840	.948	.000	.899	.978
Cars & Peds	79	180	15	1	275	29	199	65	1	294	118	297	71	0	486	48	251	107	0	406	1461
% Cars & Peds																					
Trucks & Buses	0	0	0	0	0	1	0	0	0	1	0	2	0	0	2	0	1	1	0	2	5
% Trucks & Buses	0	0	0	0	0	3.3	0	0	0	0.3	0	0.7	0	0	0.4	0	0.4	0.9	0	0.5	0.3
Bikes by Direction	1	1	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	2	0	2	5
% Bikes by Direction	1.3	0.6	0	0	0.7	0	0	0	0	0	0	0.3	0	0	0.2	0	0	1.8	0	0.5	0.3



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N/S: Bark Street  
W: Jaffrey Street  
City, State: Swansea, MA  
Client: Pare/A. Archer

File Name : 05225C  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

Start Time	Bark Street From North			Bark Street From South			Jaffrey Street From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
07:00 AM	1	70	0	13	3	0	2	0	0	89
07:15 AM	2	103	0	24	1	0	3	0	1	134
07:30 AM	0	125	0	38	0	0	3	0	0	166
07:45 AM	0	61	0	57	0	0	4	0	0	122
<b>Total</b>	<b>3</b>	<b>359</b>	<b>0</b>	<b>132</b>	<b>4</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>1</b>	<b>511</b>
08:00 AM	1	53	0	31	0	0	1	0	0	86
08:15 AM	0	60	0	41	0	0	1	0	1	103
08:30 AM	0	64	0	38	0	0	3	0	0	105
08:45 AM	0	55	0	30	0	0	0	0	0	85
<b>Total</b>	<b>1</b>	<b>232</b>	<b>0</b>	<b>140</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>379</b>
<b>Grand Total</b>	<b>4</b>	<b>591</b>	<b>0</b>	<b>272</b>	<b>4</b>	<b>0</b>	<b>17</b>	<b>0</b>	<b>2</b>	<b>890</b>
Apprch %	0.7	99.3	0	98.6	1.4	0	89.5	0	10.5	
Total %	0.4	66.4	0	30.6	0.4	0	1.9	0	0.2	
Cars & Peds	3	573	0	254	3	0	17	0	2	852
% Cars & Peds	75	97	0	93.4	75	0	100	0	100	95.7
Trucks & Buses	1	14	0	17	1	0	0	0	0	33
% Trucks & Buses	25	2.4	0	6.2	25	0	0	0	0	3.7
Bikes by Direction	0	4	0	1	0	0	0	0	0	5
% Bikes by Direction	0	0.7	0	0.4	0	0	0	0	0	0.6

Start Time	Bark Street From North				Bark Street From South				Jaffrey Street From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:00 AM													
07:00 AM	1	70	0	71	13	3	0	16	2	0	0	2	89
07:15 AM	2	103	0	105	24	1	0	25	3	0	1	4	134
07:30 AM	0	125	0	125	38	0	0	38	3	0	0	3	166
07:45 AM	0	61	0	61	57	0	0	57	4	0	0	4	122
Total Volume	3	359	0	362	132	4	0	136	12	0	1	13	511
% App. Total	0.8	99.2	0		97.1	2.9	0		92.3	0	7.7		
PHF	.375	.718	.000	.724	.579	.333	.000	.596	.750	.000	.250	.813	.770
Cars & Peds	3	343	0	346	123	3	0	126	12	0	1	13	485
% Cars & Peds	100	95.5	0	95.6	93.2	75.0	0	92.6	100	0	100	100	94.9
Trucks & Buses	0	12	0	12	9	1	0	10	0	0	0	0	22
% Trucks & Buses	0	3.3	0	3.3	6.8	25.0	0	7.4	0	0	0	0	4.3
Bikes by Direction	0	4	0	4	0	0	0	0	0	0	0	0	4
% Bikes by Direction	0	1.1	0	1.1	0	0	0	0	0	0	0	0	0.8



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N/S: Bark Street  
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City, State: Swansea, MA  
Client: Pare/A. Archer

File Name : 05225C  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

Groups Printed- Cars &amp; Peds

Start Time	Bark Street From North			Bark Street From South			Jaffrey Street From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
07:00 AM	1	70	0	13	3	0	2	0	0	89
07:15 AM	2	97	0	24	0	0	3	0	1	127
07:30 AM	0	117	0	33	0	0	3	0	0	153
07:45 AM	0	59	0	53	0	0	4	0	0	116
Total	3	343	0	123	3	0	12	0	1	485
08:00 AM	0	52	0	29	0	0	1	0	0	82
08:15 AM	0	60	0	38	0	0	1	0	1	100
08:30 AM	0	64	0	36	0	0	3	0	0	103
08:45 AM	0	54	0	28	0	0	0	0	0	82
Total	0	230	0	131	0	0	5	0	1	367
Grand Total	3	573	0	254	3	0	17	0	2	852
Apprch %	0.5	99.5	0	98.8	1.2	0	89.5	0	10.5	
Total %	0.4	67.3	0	29.8	0.4	0	2	0	0.2	

Start Time	Bark Street From North				Bark Street From South				Jaffrey Street From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:00 AM													
07:00 AM	1	70	0	71	13	3	0	16	2	0	0	2	89
07:15 AM	2	97	0	99	24	0	0	24	3	0	1	4	127
07:30 AM	0	117	0	117	33	0	0	33	3	0	0	3	153
07:45 AM	0	59	0	59	53	0	0	53	4	0	0	4	116
Total Volume	3	343	0	346	123	3	0	126	12	0	1	13	485
% App. Total	0.9	99.1	0		97.6	2.4	0		92.3	0	7.7		
PHF	.375	.733	.000	.739	.580	.250	.000	.594	.750	.000	.250	.813	.792

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City, State: Swansea, MA  
Client: Pare/A. Archer

File Name : 05225C  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

Groups Printed- Trucks & Buses

Start Time	Bark Street From North			Bark Street From South			Jaffrey Street From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	2	0	0	1	0	0	0	0	3
07:30 AM	0	8	0	5	0	0	0	0	0	13
07:45 AM	0	2	0	4	0	0	0	0	0	6
<b>Total</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>9</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>
08:00 AM	1	1	0	2	0	0	0	0	0	4
08:15 AM	0	0	0	2	0	0	0	0	0	2
08:30 AM	0	0	0	2	0	0	0	0	0	2
08:45 AM	0	1	0	2	0	0	0	0	0	3
<b>Total</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>11</b>
<b>Grand Total</b>	<b>1</b>	<b>14</b>	<b>0</b>	<b>17</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>33</b>
Apprch %	6.7	93.3	0	94.4	5.6	0	0	0	0	
Total %	3	42.4	0	51.5	3	0	0	0	0	

Start Time	Bark Street From North				Bark Street From South				Jaffrey Street From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:15 AM													
07:15 AM	0	2	0	2	0	1	0	1	0	0	0	0	3
07:30 AM	0	8	0	8	5	0	0	5	0	0	0	0	13
07:45 AM	0	2	0	2	4	0	0	4	0	0	0	0	6
08:00 AM	1	1	0	2	2	0	0	2	0	0	0	0	4
<b>Total Volume</b>	<b>1</b>	<b>13</b>	<b>0</b>	<b>14</b>	<b>11</b>	<b>1</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>26</b>
% App. Total	7.1	92.9	0		91.7	8.3	0		0	0	0		
PHF	.250	.406	.000	.438	.550	.250	.000	.600	.000	.000	.000	.000	.500

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 City, State: Swansea, MA  
 Client: Pare/A. Archer

File Name : 05225C  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Bikes by Direction

Start Time	Bark Street From North			Bark Street From South			Jaffrey Street From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	4	0	0	0	0	0	0	0	4
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	4	0	0	0	0	0	0	0	4
08:00 AM	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	1	0	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	1	0	0	0	0	0	1
Grand Total	0	4	0	1	0	0	0	0	0	5
Apprch %	0	100	0	100	0	0	0	0	0	
Total %	0	80	0	20	0	0	0	0	0	

Start Time	Bark Street From North				Bark Street From South				Jaffrey Street From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:00 AM													
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	4	0	4	0	0	0	0	0	0	0	0	4
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	4	0	4	0	0	0	0	0	0	0	0	4
% App. Total	0	100	0		0	0	0		0	0	0		
PHF	.000	.250	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.250

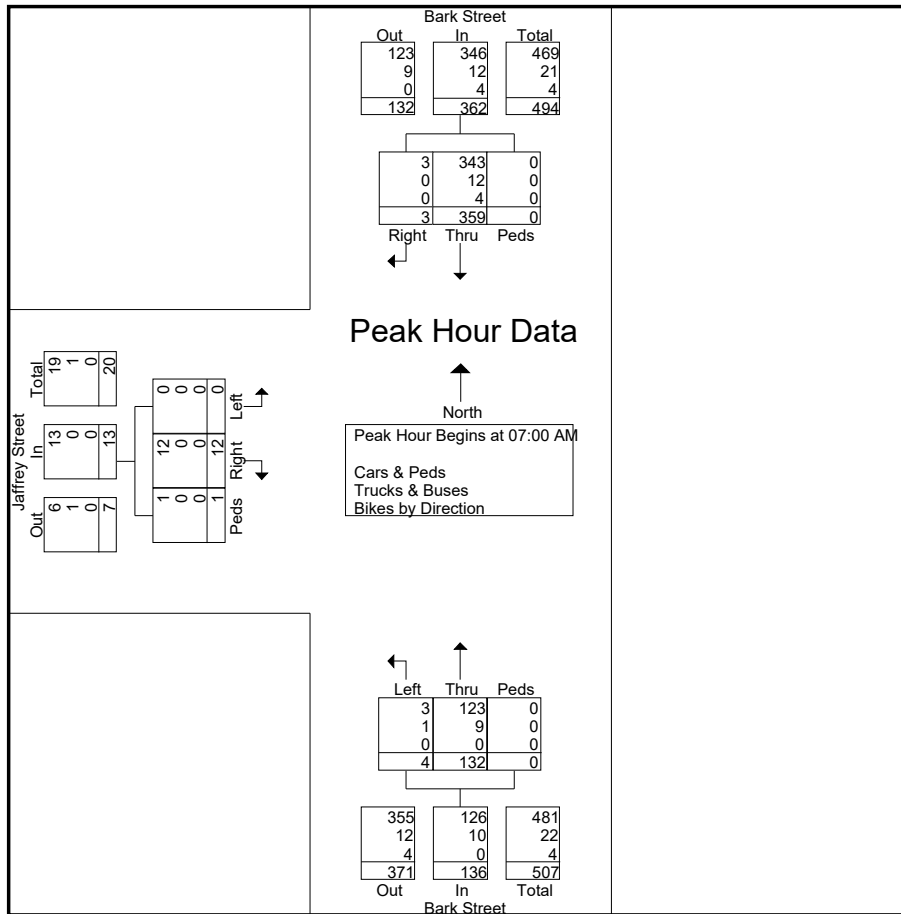
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N/S: Bark Street  
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City, State: Swansea, MA  
Client: Pare/A. Archer

File Name : 05225C  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

Start Time	Bark Street From North				Bark Street From South				Jaffrey Street From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:00 AM													
07:00 AM	1	70	0	71	13	3	0	16	2	0	0	2	89
07:15 AM	2	103	0	105	24	1	0	25	3	0	1	4	134
07:30 AM	0	125	0	125	38	0	0	38	3	0	0	3	166
07:45 AM	0	61	0	61	57	0	0	57	4	0	0	4	122
Total Volume	3	359	0	362	132	4	0	136	12	0	1	13	511
% App. Total	0.8	99.2	0		97.1	2.9	0		92.3	0	7.7		
PHF	.375	.718	.000	.724	.579	.333	.000	.596	.750	.000	.250	.813	.770
Cars & Peds	3	343	0	346	123	3	0	126	12	0	1	13	485
% Cars & Peds	100	95.5	0	95.6	93.2	75.0	0	92.6	100	0	100	100	94.9
Trucks & Buses	0	12	0	12	9	1	0	10	0	0	0	0	22
% Trucks & Buses	0	3.3	0	3.3	6.8	25.0	0	7.4	0	0	0	0	4.3
Bikes by Direction	0	4	0	4	0	0	0	0	0	0	0	0	4
% Bikes by Direction	0	1.1	0	1.1	0	0	0	0	0	0	0	0	0.8



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 City, State: Swansea, MA  
 Client: Pare/A. Archer

File Name : 05225CC  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Cars & Peds - Trucks & Buses - Bikes by Direction

Start Time	Bark Street From North			Bark Street From South			Jaffrey Street From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
02:00 PM	0	50	0	47	1	0	1	1	0	100
02:15 PM	1	45	0	60	2	0	1	0	0	109
02:30 PM	1	57	0	51	5	0	2	1	0	117
02:45 PM	1	55	0	83	5	0	0	0	0	144
<b>Total</b>	<b>3</b>	<b>207</b>	<b>0</b>	<b>241</b>	<b>13</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>470</b>
03:00 PM	0	49	0	57	2	0	2	0	0	110
03:15 PM	0	46	0	68	1	0	0	0	0	115
03:30 PM	0	59	0	78	1	0	0	0	0	138
03:45 PM	0	50	0	82	2	0	0	1	0	135
<b>Total</b>	<b>0</b>	<b>204</b>	<b>0</b>	<b>285</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>498</b>
04:00 PM	1	60	0	73	4	0	0	2	0	140
04:15 PM	1	68	0	104	0	0	3	1	0	177
04:30 PM	0	59	0	135	1	0	1	0	0	196
04:45 PM	0	58	0	92	2	0	0	1	0	153
<b>Total</b>	<b>2</b>	<b>245</b>	<b>0</b>	<b>404</b>	<b>7</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>666</b>
05:00 PM	0	55	0	91	1	0	0	0	0	147
05:15 PM	0	64	0	81	0	0	1	0	0	146
05:30 PM	0	54	0	74	1	0	1	0	0	130
05:45 PM	0	46	0	79	0	0	0	0	0	125
<b>Total</b>	<b>0</b>	<b>219</b>	<b>0</b>	<b>325</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>548</b>
<b>Grand Total</b>	<b>5</b>	<b>875</b>	<b>0</b>	<b>1255</b>	<b>28</b>	<b>0</b>	<b>12</b>	<b>7</b>	<b>0</b>	<b>2182</b>
Apprch %	0.6	99.4	0	97.8	2.2	0	63.2	36.8	0	
Total %	0.2	40.1	0	57.5	1.3	0	0.5	0.3	0	
Cars & Peds	5	856	0	1231	25	0	12	7	0	2136
% Cars & Peds	100	97.8	0	98.1	89.3	0	100	100	0	97.9
Trucks & Buses	0	18	0	20	3	0	0	0	0	41
% Trucks & Buses	0	2.1	0	1.6	10.7	0	0	0	0	1.9
Bikes by Direction	0	1	0	4	0	0	0	0	0	5
% Bikes by Direction	0	0.1	0	0.3	0	0	0	0	0	0.2

Start Time	Bark Street From North				Bark Street From South				Jaffrey Street From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	

Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1

Peak Hour for Entire Intersection Begins at 02:45 PM

02:45 PM	1	55	0	56	83	5	0	88	0	0	0	0	144
03:00 PM	0	49	0	49	57	2	0	59	2	0	0	2	110
03:15 PM	0	46	0	46	68	1	0	69	0	0	0	0	115
03:30 PM	0	59	0	59	78	1	0	79	0	0	0	0	138
Total Volume	1	209	0	210	286	9	0	295	2	0	0	2	507
% App. Total	0.5	99.5	0		96.9	3.1	0		100	0	0		
PHF	.250	.886	.000	.890	.861	.450	.000	.838	.250	.000	.000	.250	.880
Cars & Peds	1	204	0	205	272	6	0	278	2	0	0	2	485
% Cars & Peds	100	97.6	0	97.6	95.1	66.7	0	94.2	100	0	0	100	95.7
Trucks & Buses	0	5	0	5	13	3	0	16	0	0	0	0	21
% Trucks & Buses	0	2.4	0	2.4	4.5	33.3	0	5.4	0	0	0	0	4.1
Bikes by Direction	0	0	0	0	1	0	0	1	0	0	0	0	1
% Bikes by Direction	0	0	0	0	0.3	0	0	0.3	0	0	0	0	0.2

**Transportation Data Corporation**Mario Perone, [mperone1@verizon.net](mailto:mperone1@verizon.net)

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N/S: Bark Street  
 W: Jaffrey Street  
 City, State: Swansea, MA  
 Client: Pare/A. Archer

File Name : 05225CC  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 2

Start Time	Bark Street From North				Bark Street From South				Jaffrey Street From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:15 PM													
04:15 PM	1	68	0	69	104	0	0	104	3	1	0	4	177
04:30 PM	0	59	0	59	135	1	0	136	1	0	0	1	196
04:45 PM	0	58	0	58	92	2	0	94	0	1	0	1	153
05:00 PM	0	55	0	55	91	1	0	92	0	0	0	0	147
Total Volume	1	240	0	241	422	4	0	426	4	2	0	6	673
% App. Total	0.4	99.6	0		99.1	0.9	0		66.7	33.3	0		
PHF	.250	.882	.000	.873	.781	.500	.000	.783	.333	.500	.000	.375	.858
Cars & Peds	1	240	0	241	416	4	0	420	4	2	0	6	667
% Cars & Peds	100	100	0	100	98.6	100	0	98.6	100	100	0	100	99.1
Trucks & Buses	0	0	0	0	3	0	0	3	0	0	0	0	3
% Trucks & Buses	0	0	0	0	0.7	0	0	0.7	0	0	0	0	0.4
Bikes by Direction	0	0	0	0	3	0	0	3	0	0	0	0	3
% Bikes by Direction	0	0	0	0	0.7	0	0	0.7	0	0	0	0	0.4

**Transportation Data Corporation**

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N/S: Bark Street  
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City, State: Swansea, MA  
Client: Pare/A. Archer

File Name : 05225CC  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

## Groups Printed- Cars &amp; Peds

Start Time	Bark Street From North			Bark Street From South			Jaffrey Street From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
02:00 PM	0	47	0	47	1	0	1	1	0	97
02:15 PM	1	45	0	60	2	0	1	0	0	109
02:30 PM	1	47	0	51	5	0	2	1	0	107
02:45 PM	1	55	0	72	2	0	0	0	0	130
Total	3	194	0	230	10	0	4	2	0	443
03:00 PM	0	45	0	56	2	0	2	0	0	105
03:15 PM	0	46	0	66	1	0	0	0	0	113
03:30 PM	0	58	0	78	1	0	0	0	0	137
03:45 PM	0	50	0	80	2	0	0	1	0	133
Total	0	199	0	280	6	0	2	1	0	488
04:00 PM	1	60	0	73	4	0	0	2	0	140
04:15 PM	1	68	0	100	0	0	3	1	0	173
04:30 PM	0	59	0	133	1	0	1	0	0	194
04:45 PM	0	58	0	92	2	0	0	1	0	153
Total	2	245	0	398	7	0	4	4	0	660
05:00 PM	0	55	0	91	1	0	0	0	0	147
05:15 PM	0	64	0	81	0	0	1	0	0	146
05:30 PM	0	54	0	73	1	0	1	0	0	129
05:45 PM	0	45	0	78	0	0	0	0	0	123
Total	0	218	0	323	2	0	2	0	0	545
Grand Total	5	856	0	1231	25	0	12	7	0	2136
Apprch %	0.6	99.4	0	98	2	0	63.2	36.8	0	
Total %	0.2	40.1	0	57.6	1.2	0	0.6	0.3	0	

Start Time	Bark Street From North				Bark Street From South				Jaffrey Street From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 03:00 PM													
03:00 PM	0	45	0	45	56	2	0	58	2	0	0	2	105
03:15 PM	0	46	0	46	66	1	0	67	0	0	0	0	113
03:30 PM	0	<b>58</b>	0	<b>58</b>	78	1	0	79	0	0	0	0	<b>137</b>
03:45 PM	0	50	0	50	<b>80</b>	2	0	<b>82</b>	0	<b>1</b>	0	1	133
Total Volume	0	199	0	199	280	6	0	286	2	1	0	3	488
% App. Total	0	100	0		97.9	2.1	0		66.7	33.3	0		
PHF	.000	.858	.000	.858	.875	.750	.000	.872	.250	.250	.000	.375	.891

## Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

## Peak Hour for Entire Intersection Begins at 04:15 PM

04:15 PM	<b>1</b>	<b>68</b>	0	<b>69</b>	100	0	0	100	<b>3</b>	<b>1</b>	0	<b>4</b>	173
04:30 PM	0	59	0	59	<b>133</b>	1	0	<b>134</b>	1	0	0	1	<b>194</b>
04:45 PM	0	58	0	58	92	2	0	94	0	1	0	1	153
05:00 PM	0	55	0	55	91	1	0	92	0	0	0	0	147
Total Volume	1	240	0	241	416	4	0	420	4	2	0	6	667
% App. Total	0.4	99.6	0		99	1	0		66.7	33.3	0		
PHF	.250	.882	.000	.873	.782	.500	.000	.784	.333	.500	.000	.375	.860

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N/S: Bark Street  
W: Jaffrey Street  
City, State: Swansea, MA  
Client: Pare/A. Archer

File Name : 05225CC  
Site Code : 05225  
Start Date : 9/4/2019  
Page No : 1

Groups Printed- Trucks & Buses

Start Time	Bark Street From North			Bark Street From South			Jaffrey Street From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
02:00 PM	0	3	0	0	0	0	0	0	0	3
02:15 PM	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	10	0	0	0	0	0	0	0	10
02:45 PM	0	0	0	10	3	0	0	0	0	13
<b>Total</b>	<b>0</b>	<b>13</b>	<b>0</b>	<b>10</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>26</b>
03:00 PM	0	4	0	1	0	0	0	0	0	5
03:15 PM	0	0	0	2	0	0	0	0	0	2
03:30 PM	0	1	0	0	0	0	0	0	0	1
03:45 PM	0	0	0	2	0	0	0	0	0	2
<b>Total</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	2	0	0	0	0	0	2
04:30 PM	0	0	0	1	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	1	0	0	0	0	0	1
05:45 PM	0	0	0	1	0	0	0	0	0	1
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>
<b>Grand Total</b>	<b>0</b>	<b>18</b>	<b>0</b>	<b>20</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>41</b>
Apprch %	0	100	0	87	13	0	0	0	0	
Total %	0	43.9	0	48.8	7.3	0	0	0	0	

Start Time	Bark Street From North				Bark Street From South				Jaffrey Street From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 02:30 PM													
02:30 PM	0	10	0	10	0	0	0	0	0	0	0	0	10
02:45 PM	0	0	0	0	10	3	0	13	0	0	0	0	13
03:00 PM	0	4	0	4	1	0	0	1	0	0	0	0	5
03:15 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
Total Volume	0	14	0	14	13	3	0	16	0	0	0	0	30
% App. Total	0	100	0		81.2	18.8	0		0	0	0		
PHF	.000	.350	.000	.350	.325	.250	.000	.308	.000	.000	.000	.000	.577

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:00 PM													
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
04:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	3	0	0	3	0	0	0	0	3
% App. Total	0	0	0		100	0	0		0	0	0		
PHF	.000	.000	.000	.000	.375	.000	.000	.375	.000	.000	.000	.000	.375



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N/S: Bark Street  
 W: Jaffrey Street  
 City, State: Swansea, MA  
 Client: Pare/A. Archer

File Name : 05225CC  
 Site Code : 05225  
 Start Date : 9/4/2019  
 Page No : 1

Groups Printed- Bikes by Direction

Start Time	Bark Street From North			Bark Street From South			Jaffrey Street From West			Int. Total
	Right	Thru	Peds	Thru	Left	Peds	Right	Left	Peds	
02:00 PM	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	1	0	0	0	0	0	1
Total	0	0	0	1	0	0	0	0	0	1
03:00 PM	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	2	0	0	0	0	0	2
04:30 PM	0	0	0	1	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	3	0	0	0	0	0	3
05:00 PM	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	1	0	0	0	0	0	0	0	1
Total	0	1	0	0	0	0	0	0	0	1
Grand Total	0	1	0	4	0	0	0	0	0	5
Apprch %	0	100	0	100	0	0	0	0	0	
Total %	0	20	0	80	0	0	0	0	0	

Start Time	Bark Street From North				Bark Street From South				Jaffrey Street From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 02:00 PM													
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
Total Volume	0	0	0	0	1	0	0	1	0	0	0	0	1
% App. Total	0	0	0		100	0	0		0	0	0		
PHF	.000	.000	.000	.000	.250	.000	.000	.250	.000	.000	.000	.000	.250

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:00 PM													
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
04:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	3	0	0	3	0	0	0	0	3
% App. Total	0	0	0		100	0	0		0	0	0		
PHF	.000	.000	.000	.000	.375	.000	.000	.375	.000	.000	.000	.000	.375

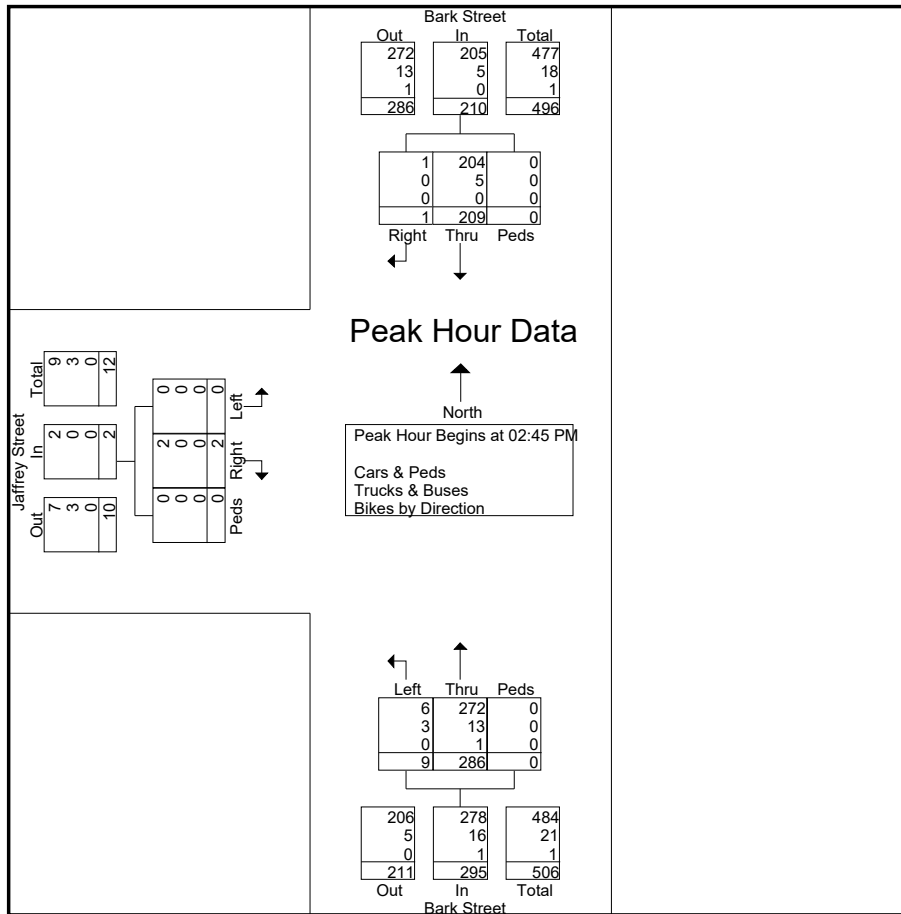
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N/S: Bark Street  
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Client: Pare/A. Archer

File Name : 05225CC  
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Page No : 1

Start Time	Bark Street From North				Bark Street From South				Jaffrey Street From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 02:00 PM to 03:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 02:45 PM													
02:45 PM	1	55	0	56	83	5	0	88	0	0	0	0	144
03:00 PM	0	49	0	49	57	2	0	59	2	0	0	2	110
03:15 PM	0	46	0	46	68	1	0	69	0	0	0	0	115
03:30 PM	0	59	0	59	78	1	0	79	0	0	0	0	138
Total Volume	1	209	0	210	286	9	0	295	2	0	0	2	507
% App. Total	0.5	99.5	0		96.9	3.1	0		100	0	0		
PHF	.250	.886	.000	.890	.861	.450	.000	.838	.250	.000	.000	.250	.880
Cars & Peds	1	204	0	205	272	6	0	278	2	0	0	2	485
% Cars & Peds	100	97.6	0	97.6	95.1	66.7	0	94.2	100	0	0	100	95.7
Trucks & Buses	0	5	0	5	13	3	0	16	0	0	0	0	21
% Trucks & Buses	0	2.4	0	2.4	4.5	33.3	0	5.4	0	0	0	0	4.1
Bikes by Direction	0	0	0	0	1	0	0	1	0	0	0	0	1
% Bikes by Direction	0	0	0	0	0.3	0	0	0.3	0	0	0	0	0.2

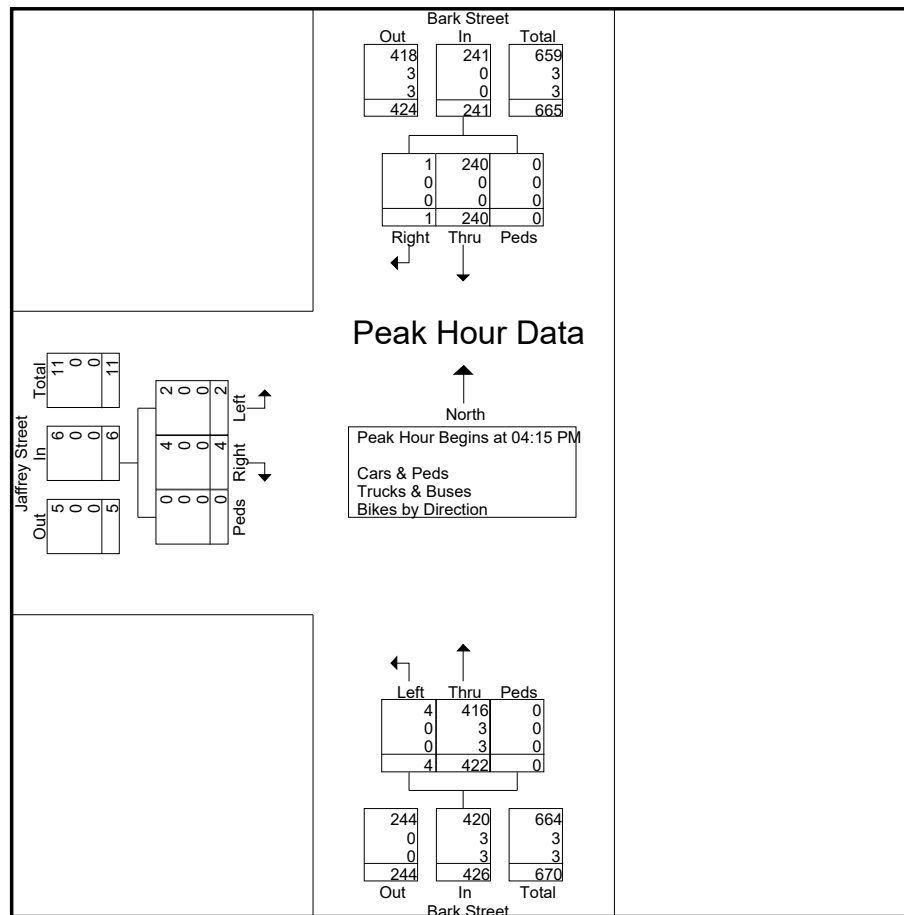


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Start Time	Bark Street From North				Bark Street From South				Jaffrey Street From West				Int. Total
	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	Right	Left	Peds	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:15 PM													
04:15 PM	1	68	0	69	104	0	0	104	3	1	0	4	177
04:30 PM	0	59	0	59	135	1	0	136	1	0	0	1	196
04:45 PM	0	58	0	58	92	2	0	94	0	1	0	1	153
05:00 PM	0	55	0	55	91	1	0	92	0	0	0	0	147
Total Volume	1	240	0	241	422	4	0	426	4	2	0	6	673
% App. Total	0.4	99.6	0		99.1	0.9	0		66.7	33.3	0		
PHF	.250	.882	.000	.873	.781	.500	.000	.783	.333	.500	.000	.375	.858
Cars & Peds	1	240	0	241	416	4	0	420	4	2	0	6	667
% Cars & Peds	100	100	0	100	98.6	100	0	98.6	100	100	0	100	99.1
Trucks & Buses	0	0	0	0	3	0	0	3	0	0	0	0	3
% Trucks & Buses	0	0	0	0	0.7	0	0	0.7	0	0	0	0	0.4
Bikes by Direction	0	0	0	0	3	0	0	3	0	0	0	0	3
% Bikes by Direction	0	0	0	0	0.7	0	0	0.7	0	0	0	0	0.4



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Brayton Avenue south of  
Somerset Middle School Driveway  
City, State: Somerset, MA  
Client: Pare/A. Archer

05225BVOLUME  
Site Code: 05225

Start Time	9/10/2019 Tue		NB		SB		Combined		9/11/2 Wed	NB		SB		Combined	
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.		A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	6	49	1	47	7	96			4	52	0	34	4	86	
12:15	4	47	1	38	5	85			6	49	1	44	7	93	
12:30	4	50	3	48	7	98			2	48	0	49	2	97	
12:45	5	39	4	56	9	95			3	57	1	32	4	89	
01:00	3	45	2	36	5	81			2	46	1	49	3	95	
01:15	1	48	2	51	3	99			3	54	0	55	3	109	
01:30	3	38	2	57	5	95			2	39	1	43	3	82	
01:45	2	61	0	49	2	110			0	37	1	41	1	78	
02:00	1	51	1	49	2	100			2	49	0	54	2	103	
02:15	0	66	1	42	1	108			1	75	1	40	2	115	
02:30	1	97	1	54	2	151			0	90	4	50	4	140	
02:45	2	82	0	87	2	169			2	55	0	91	2	146	
03:00	0	83	1	49	1	132			3	103	4	59	7	162	
03:15	3	79	0	49	3	128			0	87	2	60	2	147	
03:30	2	106	2	74	4	180			0	84	2	70	2	154	
03:45	2	89	4	99	6	188			2	98	3	53	5	151	
04:00	0	87	8	60	8	147			2	76	6	68	8	144	
04:15	2	98	6	79	8	177			1	129	8	81	9	210	
04:30	1	96	13	111	14	207			1	101	12	80	13	181	
04:45	2	89	11	52	13	141			3	90	10	65	13	155	
05:00	3	91	13	66	16	157			5	89	8	69	13	158	
05:15	6	92	19	57	25	149			11	119	16	61	27	180	
05:30	8	84	22	53	30	137			5	90	23	48	28	138	
05:45	7	82	26	68	33	150			7	61	34	44	41	105	
06:00	14	83	43	64	57	147			13	83	38	45	51	128	
06:15	17	83	45	44	62	127			15	76	34	40	49	116	
06:30	13	80	70	54	83	134			17	53	65	50	82	103	
06:45	28	55	64	49	92	104			29	70	68	35	97	105	
07:00	37	63	76	40	113	103			42	46	82	31	124	77	
07:15	53	42	69	27	122	69			55	42	67	32	122	74	
07:30	93	44	129	31	222	75			80	66	119	25	199	91	
07:45	61	57	102	30	163	87			76	40	107	20	183	60	
08:00	40	44	67	21	107	65			44	42	63	25	107	67	
08:15	37	40	63	24	100	64			41	34	65	19	106	53	
08:30	45	30	72	20	117	50			39	39	65	22	104	61	
08:45	33	19	67	13	100	32			39	27	56	20	95	47	
09:00	25	24	67	20	92	44			40	27	69	11	109	38	
09:15	34	21	45	15	79	36			32	24	52	8	84	32	
09:30	34	27	38	8	72	35			35	21	51	7	86	28	
09:45	39	14	38	14	77	28			31	13	40	8	71	21	
10:00	45	15	44	4	89	19			35	17	47	12	82	29	
10:15	31	8	53	13	84	21			46	5	27	8	73	13	
10:30	45	10	55	8	100	18			39	13	52	7	91	20	
10:45	47	6	36	6	83	12			48	8	43	6	91	14	
11:00	51	2	42	3	93	5			50	6	37	5	87	11	
11:15	40	11	49	4	89	15			47	8	42	3	89	11	
11:30	47	7	43	1	90	8			52	6	49	2	101	8	
11:45	55	2	54	3	109	5			53	4	39	3	92	7	
Total	1032	2536	1574	1947	2606	4483			1065	2548	1515	1784	2580	4332	
Day Total	3568		3521		7089				3613		3299		6912		
% Total	14.6%	35.8%	22.2%	27.5%					15.4%	36.9%	21.9%	25.8%			
Peak	- 07:15	03:30	07:00	03:45	07:00	03:45			- 07:15	04:15	07:00	04:15	07:00	04:15	
Vol.	- 247	380	376	349	620	719			- 255	409	375	295	628	704	
P.H.F.	0.664	0.896	0.729	0.786	0.698	0.868			0.797	0.793	0.788	0.910	0.789	0.838	
ADT	ADT 5,902		AADT 5,902												

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Page 1

Brayton Avenue south of  
Somerset Middle School Driveway  
City, State: Somerset, MA  
Client: Pare/A. Archer

05225BVOLUME  
Site Code: 05225

Start Time	9/10/2019 Tue	NB		Hour Totals		SB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		6	49			1	47				
12:15		4	47			1	38				
12:30		4	50			3	48				
12:45		5	39	19	185	4	56	9	189	28	374
01:00		3	45			2	36				
01:15		1	48			2	51				
01:30		3	38			2	57				
01:45		2	61	9	192	0	49	6	193	15	385
02:00		1	51			1	49				
02:15		0	66			1	42				
02:30		1	97			1	54				
02:45		2	82	4	296	0	87	3	232	7	528
03:00		0	83			1	49				
03:15		3	79			0	49				
03:30		2	106			2	74				
03:45		2	89	7	357	4	99	7	271	14	628
04:00		0	87			8	60				
04:15		2	98			6	79				
04:30		1	96			13	111				
04:45		2	89	5	370	11	52	38	302	43	672
05:00		3	91			13	66				
05:15		6	92			19	57				
05:30		8	84			22	53				
05:45		7	82	24	349	26	68	80	244	104	593
06:00		14	83			43	64				
06:15		17	83			45	44				
06:30		13	80			70	54				
06:45		28	55	72	301	64	49	222	211	294	512
07:00		37	63			76	40				
07:15		53	42			69	27				
07:30		93	44			129	31				
07:45		61	57	244	206	102	30	376	128	620	334
08:00		40	44			67	21				
08:15		37	40			63	24				
08:30		45	30			72	20				
08:45		33	19	155	133	67	13	269	78	424	211
09:00		25	24			67	20				
09:15		34	21			45	15				
09:30		34	27			38	8				
09:45		39	14	132	86	38	14	188	57	320	143
10:00		45	15			44	4				
10:15		31	8			53	13				
10:30		45	10			55	8				
10:45		47	6	168	39	36	6	188	31	356	70
11:00		51	2			42	3				
11:15		40	11			49	4				
11:30		47	7			43	1				
11:45		55	2	193	22	54	3	188	11	381	33
Total		1032	2536			1574	1947			2606	4483
Combined Total			3568			3521				7089	
Percentage	0.0%										

**Transportation Data Corporation**

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Brayton Avenue south of  
Somerset Middle School Driveway  
City, State: Somerset, MA  
Client: Pare/A. Archer

05225BVOLUME  
Site Code: 05225

Start Time	9/11/2019 Wed	NB		Hour Totals		SB		Hour Totals		Combined Totals	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		4	52			0	34				
12:15		6	49			1	44				
12:30		2	48			0	49				
12:45		3	57	15	206	1	32	2	159	17	365
01:00		2	46			1	49				
01:15		3	54			0	55				
01:30		2	39			1	43				
01:45		0	37	7	176	1	41	3	188	10	364
02:00		2	49			0	54				
02:15		1	75			1	40				
02:30		0	90			4	50				
02:45		2	55	5	269	0	91	5	235	10	504
03:00		3	103			4	59				
03:15		0	87			2	60				
03:30		0	84			2	70				
03:45		2	98	5	372	3	53	11	242	16	614
04:00		2	76			6	68				
04:15		1	129			8	81				
04:30		1	101			12	80				
04:45		3	90	7	396	10	65	36	294	43	690
05:00		5	89			8	69				
05:15		11	119			16	61				
05:30		5	90			23	48				
05:45		7	61	28	359	34	44	81	222	109	581
06:00		13	83			38	45				
06:15		15	76			34	40				
06:30		17	53			65	50				
06:45		29	70	74	282	68	35	205	170	279	452
07:00		42	46			82	31				
07:15		55	42			67	32				
07:30		80	66			119	25				
07:45		76	40	253	194	107	20	375	108	628	302
08:00		44	42			63	25				
08:15		41	34			65	19				
08:30		39	39			65	22				
08:45		39	27	163	142	56	20	249	86	412	228
09:00		40	27			69	11				
09:15		32	24			52	8				
09:30		35	21			51	7				
09:45		31	13	138	85	40	8	212	34	350	119
10:00		35	17			47	12				
10:15		46	5			27	8				
10:30		39	13			52	7				
10:45		48	8	168	43	43	6	169	33	337	76
11:00		50	6			37	5				
11:15		47	8			42	3				
11:30		52	6			49	2				
11:45		53	4	202	24	39	3	167	13	369	37
Total		1065	2548			1515	1784			2580	4332
Combined Total			3613				3299				6912
Percentage	0.0%										
Total Percent		2097	5084			3089	3731			5186	8815
		29.2%	70.8%			45.3%	54.7%			37.0%	63.0%
ADT		ADT 5,902									
			AADT 5,902								

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**Appendix B**

**Crash Data**







Somerset Middle School  
 Somerset, MA  
 October 2016 ~ September 2019  
 Pare Project No. 19118.02  
 October 2019



Crash Ref No	Crash No	Crash Date	On Street	Intersecting Street	Travel Directions	No of Vehicles	Injuries	Fatalities	Weather Condition	Road Condition	Lighting	Crash Type
1	4640485	12/21/2018	Brayton Avenue	Fourth Street	NB	1	0	0	Rain	Wet	Daylight	Object (UP)
2	4309159	01/04/2017	Brayton Avenue	Read Street	NB	2	0	0	Clear	Dry	Dark lighted	Rear-end
3	4489760	01/24/2018	Brayton Avenue	Read Street	NB/WB	2	3	0	Clear	Dry	Daylight	Angle
4	4502650	02/17/2018	Brayton Avenue	Read Street	SB	2	0	0	Clear	Dry	Dark lighted	Rear-end
5	4520665	03/22/2018	Brayton Avenue	Read Street	SB/EB	2	0	0	Cloudy/Rain	Wet	Daylight	Angle
6	4523944	04/03/2018	Brayton Avenue	Read Street	SB	2	0	0	Clear	Dry	Daylight	Rear-end
7	4554970	06/17/2018	Brayton Avenue	Read Street	SB	3	0	0	Clear/Other	Dry	Dark lighted	Rear-end
8	4271584	10/27/2016	Read Street	Brayton Avenue	EB	3	0	0	Rain/Other	Wet	Dusk	Rear-end
9	4532314	04/22/2018	Read Street	Brayton Avenue	NB/WB	2	2	0	Clear	Dry	Daylight	Angle
10	4585325	08/17/2018	Read Street	Brayton Avenue	EB/NB	2	0	0	Clear	Dry	Daylight	Angle
11	4669494	02/23/2019	Read Street	Brayton Avenue	EB	2	0	0	Clear	Dry	Dark lighted	Rear-end
12	4707505	06/01/2019	Read Street	Brayton Avenue	WB	3	1	0	Clear	Dry	Dark lighted	Head-on
13	4721264	07/03/2019	Read Street	Brayton Avenue	WB	3	0	0	Clear	Dry	Daylight	Rear-end
14	4748989	09/09/2019	Read Street	Brayton Avenue	WB	2	0	0	Clear		Daylight	Rear-end
15	4407621	08/12/2017	Brayton Avenue		NB/SB	2	0	0	Clear	Dry	Daylight	Sideswipe opposite
16	4439671	10/03/2017	Brayton Avenue		NB	3	1	0	Clear	Dry	Daylight	Rear-end
17	4457781	11/17/2017	Brayton Avenue		WB	2	0	0	Clear	Dry	Dark lighted	Angle
18	4457784	11/18/2017	Brayton Avenue		EB/SB	2	0	0	Rain	Wet	Dark lighted	Angle
19	4648859	01/04/2019	Brayton Avenue		NB	1	0	0	Clear	Dry	Dark lighted	Object (deer)
20	4750404	09/13/2019	Brayton Avenue		SB	2	0	0	Clear		Daylight	Rear-end



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**Appendix C**  
**Speed Studies**





Brayton Avenue south of  
Somerset Middle School Driveway  
City, State: Somerset, MA  
Client: Pare/A. Archer

**Transportation Data Corporation**  
Mario Perone, mperone1@verizon.net  
tel (781) 587-0086 cell (781) 439-4999

05225Bspeed  
Site Code: 05225

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	Total	85th Percent	95th Percent
09/10/19	0	0	2	4	6	6	1	0	0	0	0	0	0	19	38	40
01:00	0	0	0	0	2	6	1	0	0	0	0	0	0	9	39	42
02:00	0	0	0	0	2	1	1	0	0	0	0	0	0	4	42	43
03:00	0	0	0	2	1	2	1	1	0	0	0	0	0	7	44	48
04:00	0	0	0	0	1	3	1	0	0	0	0	0	0	5	41	43
05:00	0	0	0	1	11	10	2	0	0	0	0	0	0	24	39	41
06:00	0	1	1	8	30	22	10	0	0	0	0	0	0	72	39	43
07:00	<b>25</b>	<b>41</b>	<b>55</b>	<b>59</b>	38	23	3	0	0	0	0	0	0	<b>244</b>	33	38
08:00	5	3	34	46	38	25	3	1	0	0	0	0	0	155	36	39
09:00	2	5	4	16	48	45	9	1	<b>2</b>	0	0	0	0	132	39	42
10:00	3	2	1	22	62	63	14	0	1	0	0	0	0	168	39	42
11:00	6	2	4	25	<b>74</b>	<b>66</b>	<b>15</b>	1	0	0	0	0	0	193	39	42
12 PM	3	4	1	17	72	72	14	2	0	0	0	0	0	185	39	42
13:00	2	4	4	19	76	68	<b>15</b>	<b>4</b>	0	0	0	0	0	192	39	43
14:00	9	18	85	80	53	43	8	0	0	0	0	0	0	296	35	39
15:00	<b>11</b>	<b>26</b>	<b>124</b>	<b>148</b>	41	7	0	0	0	0	0	0	0	357	29	33
16:00	11	8	38	113	149	46	5	0	0	0	0	0	0	<b>370</b>	34	38
17:00	6	3	14	45	<b>150</b>	<b>114</b>	15	1	0	0	<b>1</b>	0	0	349	38	39
18:00	5	3	9	55	140	72	13	4	0	0	0	0	0	301	38	40
19:00	0	2	7	30	89	68	9	1	0	0	0	0	0	206	38	39
20:00	1	0	1	14	60	41	12	4	0	0	0	0	0	133	39	43
21:00	0	0	1	5	46	28	5	1	0	0	0	0	0	86	38	41
22:00	0	1	2	4	12	17	3	0	0	0	0	0	0	39	39	41
23:00	0	0	0	1	3	15	3	0	0	0	0	0	0	22	39	43
<b>Total</b>	<b>89</b>	<b>123</b>	<b>387</b>	<b>714</b>	<b>1204</b>	<b>863</b>	<b>163</b>	<b>21</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>3568</b>		
<b>Percent</b>	<b>2.5%</b>	<b>3.4%</b>	<b>10.8%</b>	<b>20.0%</b>	<b>33.7%</b>	<b>24.2%</b>	<b>4.6%</b>	<b>0.6%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>			
AM Peak	07:00	07:00	07:00	07:00	11:00	11:00	11:00	03:00	09:00					07:00		
Vol.	25	41	55	59	74	66	15	1	2					244		
PM Peak	15:00	15:00	15:00	15:00	17:00	17:00	13:00	13:00			17:00			16:00		
Vol.	11	26	124	148	150	114	15	4			1			370		

**Transportation Data Corporation**

Mario Perone, mperone1@verizon.net

tel (781) 587-0086 cell (781) 439-4999

Brayton Avenue south of  
Somerset Middle School Driveway  
City, State: Somerset, MA  
Client: Pare/A. Archer

05225Bspeed  
Site Code: 05225

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	Total	85th Percent	95th Percent
	15	20	25	30	35	40	45	50	55	60	65	70	75			
09/11/19	0	0	0	0	6	6	2	1	0	0	0	0	0	15	41	46
01:00	0	1	0	1	2	2	1	0	0	0	0	0	0	7	39	43
02:00	0	0	0	0	2	3	0	0	0	0	0	0	0	5	38	39
03:00	0	1	0	0	0	2	1	1	0	0	0	0	0	5	46	48
04:00	0	0	0	1	0	3	1	1	1	0	0	0	0	7	49	53
05:00	0	0	1	1	10	12	3	1	0	0	0	0	0	28	39	44
06:00	1	2	0	11	32	24	4	0	0	0	0	0	0	74	38	40
07:00	<b>15</b>	<b>56</b>	<b>68</b>	<b>47</b>	44	19	4	0	0	0	0	0	0	<b>253</b>	33	37
08:00	0	14	46	46	34	17	6	0	0	0	0	0	0	163	34	39
09:00	5	2	7	18	49	48	8	1	0	0	0	0	0	138	38	41
10:00	1	1	5	24	70	49	15	3	0	0	0	0	0	168	39	43
11:00	4	2	6	26	<b>81</b>	<b>66</b>	<b>16</b>	1	0	0	0	0	0	202	38	42
12 PM	4	2	6	20	81	75	14	3	1	0	0	0	0	206	39	42
13:00	1	2	0	14	65	73	17	4	0	0	0	0	0	176	39	43
14:00	10	25	57	63	72	38	3	0	0	0	1	0	0	269	35	38
15:00	10	<b>41</b>	<b>124</b>	<b>121</b>	61	15	0	0	0	0	0	0	0	372	31	34
16:00	<b>14</b>	10	53	108	138	63	9	1	0	0	0	0	0	<b>396</b>	36	39
17:00	10	5	10	64	<b>158</b>	<b>97</b>	15	0	0	0	0	0	0	359	37	39
18:00	6	3	4	39	121	91	17	1	0	0	0	0	0	282	38	41
19:00	1	2	1	15	91	61	<b>19</b>	4	0	0	0	0	0	194	39	43
20:00	3	1	0	11	73	42	11	1	0	0	0	0	0	142	38	42
21:00	1	1	1	10	29	31	8	4	0	0	0	0	0	85	39	44
22:00	0	0	0	5	14	15	4	4	0	0	1	0	0	43	43	48
23:00	0	0	0	2	7	11	4	0	0	0	0	0	0	24	40	43
<b>Total</b>	<b>86</b>	<b>171</b>	<b>389</b>	<b>647</b>	<b>1240</b>	<b>863</b>	<b>182</b>	<b>31</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>3613</b>		
Percent	2.4%	4.7%	10.8%	17.9%	34.3%	23.9%	5.0%	0.9%	0.1%	0.0%	0.1%	0.0%	0.0%			
AM Peak	07:00	07:00	07:00	07:00	11:00	11:00	11:00	10:00	04:00					07:00		
Vol.	15	56	68	47	81	66	16	3	1					253		
PM Peak	16:00	15:00	15:00	15:00	17:00	17:00	19:00	13:00	12:00		14:00			16:00		
Vol.	14	41	124	121	158	97	19	4	1		1			396		
<b>Grand Total</b>	<b>175</b>	<b>294</b>	<b>776</b>	<b>1361</b>	<b>2444</b>	<b>1726</b>	<b>345</b>	<b>52</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>7181</b>		
Percent	2.4%	4.1%	10.8%	19.0%	34.0%	24.0%	4.8%	0.7%	0.1%	0.0%	0.0%	0.0%	0.0%			

15th Percentile : 23 MPH  
50th Percentile : 32 MPH  
85th Percentile : 38 MPH  
95th Percentile : 40 MPH

Stats 10 MPH Pace Speed : 31-40 MPH  
Number of Vehicles > 30 MPH : 4575  
Percent of Vehicles > 30 MPH : 63.7%  
Mean Speed(Average) : 32 MPH

Brayton Avenue south of  
Somerset Middle School Driveway  
City, State: Somerset, MA  
Client: Pare/A. Archer  
Southbound

**Transportation Data Corporation**  
Mario Perone, mperone1@verizon.net  
tel (781) 587-0086 cell (781) 439-4999

05225Bspeed  
Site Code: 05225

Start Time	1	16	21	26	31	36	41	46	51	56	61	66	71	Total	85th Percent	95th Percent
09/10/19	0	0	1	1	2	3	2	0	0	0	0	0	0	9	41	43
01:00	0	0	0	0	1	4	0	1	0	0	0	0	0	6	45	48
02:00	0	0	0	0	1	2	0	0	0	0	0	0	0	3	38	39
03:00	0	0	0	0	2	2	2	1	0	0	0	0	0	7	44	48
04:00	0	0	0	2	9	15	9	2	1	0	0	0	0	38	43	47
05:00	0	0	1	3	23	31	16	5	1	0	0	0	0	80	43	46
06:00	1	1	6	9	50	<b>115</b>	<b>33</b>	7	0	0	0	0	0	222	41	44
07:00	<b>7</b>	<b>22</b>	<b>63</b>	<b>112</b>	<b>95</b>	63	13	0	1	0	0	0	0	<b>376</b>	36	39
08:00	5	12	<b>69</b>	80	63	24	16	0	0	0	0	0	0	269	34	40
09:00	2	1	1	16	71	65	22	<b>9</b>	1	0	0	0	0	188	40	45
10:00	0	0	5	16	82	66	16	3	0	0	0	0	0	188	39	43
11:00	2	2	8	17	64	75	18	2	0	0	0	0	0	188	39	42
12 PM	3	1	6	14	61	<b>73</b>	25	<b>6</b>	0	0	0	0	0	189	40	44
13:00	4	4	4	19	60	72	<b>29</b>	1	0	0	0	0	0	193	40	43
14:00	23	14	43	59	57	22	13	1	0	0	0	0	0	232	35	40
15:00	14	<b>38</b>	<b>95</b>	<b>80</b>	37	5	2	0	0	0	0	0	0	271	30	34
16:00	<b>42</b>	29	54	73	69	27	7	0	0	0	0	<b>1</b>	0	<b>302</b>	34	38
17:00	6	6	25	42	79	68	17	1	0	0	0	0	0	244	38	41
18:00	8	2	10	49	<b>89</b>	44	9	0	0	0	0	0	0	211	37	39
19:00	5	0	0	19	47	42	12	3	0	0	0	0	0	128	39	43
20:00	0	0	3	6	29	27	11	2	0	0	0	0	0	78	40	44
21:00	0	0	0	2	17	30	6	2	0	0	0	0	0	57	39	44
22:00	1	3	0	1	6	14	4	1	<b>1</b>	0	0	0	0	31	41	47
23:00	0	0	0	1	3	3	2	2	0	0	0	0	0	11	45	48
<b>Total</b>	123	135	394	621	1017	892	284	49	5	0	0	1	0	3521		
<b>Percent</b>	3.5%	3.8%	11.2%	17.6%	28.9%	25.3%	8.1%	1.4%	0.1%	0.0%	0.0%	0.0%	0.0%			
<b>AM Peak</b>	07:00	07:00	08:00	07:00	07:00	06:00	06:00	09:00	04:00					07:00		
<b>Vol.</b>	7	22	69	112	95	115	33	9	1					376		
<b>PM Peak</b>	16:00	15:00	15:00	15:00	18:00	12:00	13:00	12:00	22:00			16:00		16:00		
<b>Vol.</b>	42	38	95	80	89	73	29	6	1			1		302		

**Transportation Data Corporation**

Mario Perone, mperone1@verizon.net

tel (781) 587-0086 cell (781) 439-4999

Brayton Avenue south of  
Somerset Middle School Driveway  
City, State: Somerset, MA  
Client: Pare/A. Archer

05225Bspeed  
Site Code: 05225

Southbound

Start Time	15	20	25	30	35	40	45	50	55	60	65	70	75	Total	85th Percent	95th Percent
09/11/19	0	1	0	0	0	1	0	0	0	0	0	0	0	2	38	39
01:00	0	0	0	0	2	0	1	0	0	0	0	0	0	3	42	44
02:00	0	0	0	0	1	2	2	0	0	0	0	0	0	5	43	44
03:00	0	0	0	1	1	7	1	1	0	0	0	0	0	11	41	47
04:00	0	0	0	1	7	15	9	4	0	0	0	0	0	36	44	47
05:00	1	0	0	1	27	36	11	4	1	0	0	0	0	81	41	46
06:00	0	0	6	11	56	98	31	2	1	0	0	0	0	205	40	43
07:00	22	27	63	90	107	51	14	1	0	0	0	0	0	375	35	39
08:00	1	3	66	100	42	28	6	3	0	0	0	0	0	249	34	39
09:00	1	1	1	46	73	60	27	2	1	0	0	0	0	212	39	43
10:00	2	0	4	28	54	56	22	3	0	0	0	0	0	169	39	43
11:00	0	0	10	14	76	42	20	4	1	0	0	0	0	167	39	44
12 PM	1	0	6	18	44	71	18	1	0	0	0	0	0	159	39	43
13:00	4	1	5	14	57	85	18	3	1	0	0	0	0	188	39	43
14:00	13	22	49	57	49	38	5	2	0	0	0	0	0	235	36	39
15:00	13	20	70	77	45	12	4	1	0	0	0	0	0	242	32	37
16:00	33	22	46	52	74	47	18	2	0	0	0	0	0	294	37	41
17:00	3	0	8	41	83	68	18	1	0	0	0	0	0	222	38	42
18:00	2	1	8	21	56	63	17	2	0	0	0	0	0	170	39	43
19:00	4	4	1	7	40	39	13	0	0	0	0	0	0	108	39	42
20:00	1	1	0	9	33	29	11	2	0	0	0	0	0	86	40	43
21:00	0	0	1	1	15	15	2	0	0	0	0	0	0	34	38	40
22:00	0	0	0	2	8	19	4	0	0	0	0	0	0	33	39	42
23:00	0	0	0	1	3	5	4	0	0	0	0	0	0	13	42	44
<b>Total</b>	<b>101</b>	<b>103</b>	<b>344</b>	<b>592</b>	<b>953</b>	<b>887</b>	<b>276</b>	<b>38</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3299</b>		
<b>Percent</b>	<b>3.1%</b>	<b>3.1%</b>	<b>10.4%</b>	<b>17.9%</b>	<b>28.9%</b>	<b>26.9%</b>	<b>8.4%</b>	<b>1.2%</b>	<b>0.2%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>			
AM Peak	07:00	07:00	08:00	08:00	07:00	06:00	06:00	04:00	05:00					07:00		
Vol.	22	27	66	100	107	98	31	4	1					375		
PM Peak	16:00	14:00	15:00	15:00	17:00	13:00	12:00	13:00	13:00					16:00		
Vol.	33	22	70	77	83	85	18	3	1					294		
<b>Grand Total</b>	<b>224</b>	<b>238</b>	<b>738</b>	<b>1213</b>	<b>1970</b>	<b>1779</b>	<b>560</b>	<b>87</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>6820</b>		
<b>Percent</b>	<b>3.3%</b>	<b>3.5%</b>	<b>10.8%</b>	<b>17.8%</b>	<b>28.9%</b>	<b>26.1%</b>	<b>8.2%</b>	<b>1.3%</b>	<b>0.1%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>	<b>0.0%</b>			

15th Percentile : 23 MPH  
50th Percentile : 32 MPH  
85th Percentile : 38 MPH  
95th Percentile : 42 MPH

Stats 10 MPH Pace Speed : 31-40 MPH  
Number of Vehicles > 30 MPH : 4407  
Percent of Vehicles > 30 MPH : 64.6%  
Mean Speed(Average) : 32 MPH



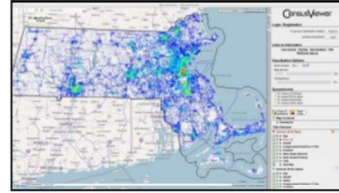
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**Appendix D**  
**Census Data**



**Somerset, Massachusetts Population: Census 2010 and 2000 Interactive Map, Demographics, Statistics, Quick Facts**

Compare population statistics about Somerset, MA by race, age, gender, Latino/Hispanic origin etc. [CensusViewer](#) delivers detailed demographics and population statistics from the 2010 Census, 2000 Census, American Community Survey (ACS), registered voter files, commercial data sources and more.



Experience breakthrough technology for census data discovery, population analysis and visualization over Bing Maps. Visually "fly over" a state, viewing in great detail the census blocks, census tracts, cities, counties and various political districts in your selection or "zoom down" to the street level to get demographic statistics and information about the population in an individual census block or census tract.

Click on any map link to see our blazing-fast data visualization over Bing Maps in action. [Read more](#) about the unprecedented demographic insight and analytical power of CensusViewer interactive maps.

[CensusViewer maps, data and statistics pages for all states, counties and cities.](#)

Somerset, Massachusetts - Overview	2010 Census		2000 Census		2000-2010 Change	
	Counts	Percentages	Counts	Percentages	Change	Percentages
<b>Total Population</b>	18,165	100.00%	17,973	100.00%	192	1.07%
<b>Population by Race</b>						
American Indian and Alaska native alone	20	0.11%	22	0.12%	-2	-9.09%
Asian alone	148	0.81%	95	0.53%	53	55.79%
Black or African American alone	68	0.37%	30	0.17%	38	126.67%
Native Hawaiian and Other Pacific native alone	1	0.01%	4	0.02%	-3	-75.00%
Some other race alone	54	0.30%	28	0.16%	26	92.86%
Two or more races	174	0.96%	142	0.79%	32	22.54%
White alone	17,700	97.44%	17,652	98.21%	48	0.27%
<b>Population by Hispanic or Latino Origin (of any race)</b>						
Persons Not of Hispanic or Latino Origin	17,974	98.95%	17,883	99.50%	91	0.51%
Persons of Hispanic or Latino Origin	191	1.05%	90	0.50%	101	112.22%
<b>Population by Gender</b>						
Female	9,544	52.54%	9,455	52.61%	89	0.94%
Male	8,621	47.46%	8,518	47.39%	103	1.21%
<b>Population by Age</b>						
Persons 0 to 4 years	798	4.39%	781	4.35%	17	2.18%
Persons 5 to 17 years	2,706	14.90%	2,901	16.14%	-195	-6.72%
Persons 18 to 64 years	10,764	59.26%	10,497	58.40%	267	2.54%
Persons 65 years and over	3,897	21.45%	3,794	21.11%	103	2.71%





**Appendix E**  
**Trip Generation & Distribution**



Somerset Middle School  
 Somerset, MA  
 Future 2026 No-Build Traffic Volumes  
 Pare Project No. 19118.02  
 October 2019



2019-2026  
 NO-BUILD TRAFFIC VOLUMES  
 Future No-Build Growth Factor = 0.5%

AM Peak Hour  
 7:00 - 8:00 AM

School Peak Hour  
 2:45 - 3:45 PM

PM Peak Hour  
 4:15 - 5:15 PM

**Jeffrey Street & Bark Street**

	2019 Existing	2026 No-Build
EB - LT	0	0
EB - RT	12	14
NB - LT	4	5
NB - T	132	147
SB - T	359	399
SB - RT	3	4

**Jeffrey Street & Bark Street**

	2019 Existing	2026 No-Build
EB - LT	0	0
EB - RT	2	3
NB - LT	9	10
NB - T	286	297
SB - T	209	217
SB - RT	1	2

**Jeffrey Street & Bark Street**

	2019 Existing	2026 No-Build
EB - LT	2	3
EB - RT	4	5
NB - LT	4	5
NB - T	422	437
SB - T	240	249
SB - RT	1	2

**Somerset Middle School Driveway & Brayton Avenue**

	2019 Existing	2026 No-Build
EB - LT	43	45
EB - RT	101	105
NB - LT	135	140
NB - T	94	98
SB - T	280	290
SB - RT	91	95

**Somerset Middle School Driveway & Brayton Avenue**

	2019 Existing	2026 No-Build
EB - LT	34	36
EB - RT	76	79
NB - LT	13	14
NB - T	260	270
SB - T	197	204
SB - RT	13	14

**Somerset Middle School Driveway & Brayton Avenue**

	2019 Existing	2026 No-Build
EB - LT	47	49
EB - RT	56	58
NB - LT	61	64
NB - T	378	392
SB - T	216	224
SB - RT	28	29

**Read Street & Brayton Avenue**

	2019 Existing	2026 No-Build
EB - LT	71	74
EB - T	125	130
EB - RT	50	52
SB - LT	14	15
SB - T	291	302
SB - RT	79	82
WB - LT	64	67
WB - T	213	221
WB - RT	20	21
NB - LT	32	34
NB - T	129	134
NB - RT	59	62

**Read Street & Brayton Avenue**

	2019 Existing	2026 No-Build
EB - LT	70	73
EB - T	167	173
EB - RT	47	49
SB - LT	9	10
SB - T	179	186
SB - RT	77	80
WB - LT	95	99
WB - T	255	265
WB - RT	11	12
NB - LT	41	43
NB - T	185	192
NB - RT	114	119

**Read Street & Brayton Avenue**

	2019 Existing	2026 No-Build
EB - LT	110	114
EB - T	252	261
EB - RT	48	50
SB - LT	15	16
SB - T	181	188
SB - RT	80	83
WB - LT	65	68
WB - T	199	207
WB - RT	30	32
NB - LT	71	74
NB - T	300	311
NB - RT	118	123

Computation by: CB  
 Checked by: AA

Somerset Middle School  
 Somerset, MA  
 Future 2026 Build Traffic Volumes  
 Pare Project No. 19118.02  
 October 2019



2019-2026  
 BUILD TRAFFIC VOLUMES

AM Peak Hour  
 7:00 - 8:00 AM

School Peak Hour  
 2:30 - 3:30 PM

PM Peak Hour  
 4:15 - 5:15 PM

**Jeffrey Street & Bark Street**

	Site Generated	2026 Build
EB - LT	0	0
EB - RT	1	14
NB - LT	0	5
NB - T	8	145
SB - T	16	388
SB - RT	0	4

**Jeffrey Street & Bark Street**

	Site Generated	2026 Build
EB - LT	0	2
EB - RT	0	5
NB - LT	0	10
NB - T	13	282
SB - T	5	220
SB - RT	0	3

**Jeffrey Street & Bark Street**

	Site Generated	2026 Build
EB - LT	0	3
EB - RT	0	5
NB - LT	0	5
NB - T	8	445
SB - T	5	254
SB - RT	0	2

**Somerset Middle School Driveway & Brayton Avenue**

	Site Generated	2026 Build
EB - LT	8	53
EB - RT	18	123
NB - LT	24	164
NB - T	0	98
SB - T	0	290
SB - RT	16	111

**Somerset Middle School Driveway & Brayton Avenue**

	Site Generated	2026 Build
EB - LT	13	89
EB - RT	7	46
NB - LT	3	21
NB - T	0	241
SB - T	0	189
SB - RT	5	33

**Somerset Middle School Driveway & Brayton Avenue**

	Site Generated	2026 Build
EB - LT	8	57
EB - RT	10	68
NB - LT	11	75
NB - T	0	392
SB - T	0	224
SB - RT	5	34

**Read Street & Brayton Avenue**

	Site Generated	2026 Build
EB - LT	8	82
EB - T	0	130
EB - RT	0	52
SB - LT	1	16
SB - T	14	316
SB - RT	4	86
WB - LT	0	67
WB - T	0	221
WB - RT	2	23
NB - LT	0	34
NB - T	14	148
NB - RT	0	62

**Read Street & Brayton Avenue**

	Site Generated	2026 Build
EB - LT	1	74
EB - T	0	173
EB - RT	0	49
SB - LT	0	13
SB - T	4	182
SB - RT	2	82
WB - LT	0	65
WB - T	0	180
WB - RT	0	50
NB - LT	0	50
NB - T	2	200
NB - RT	0	133

**Read Street & Brayton Avenue**

	Site Generated	2026 Build
EB - LT	3	117
EB - T	0	261
EB - RT	0	50
SB - LT	1	17
SB - T	7	195
SB - RT	3	86
WB - LT	0	68
WB - T	0	207
WB - RT	2	34
NB - LT	0	74
NB - T	7	318
NB - RT	0	123

---

**Appendix F**  
**Traffic Capacity Analysis**



### HCM 2010 TWSC 3: Jaffrey Street & Bark Street

Somerset Middle School  
AM Peak Existing

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			Y	Y	
Traffic Vol, veh/h	0	12	4	132	359	3
Future Vol, veh/h	0	12	4	132	359	3
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	81	81	60	60	72	72
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	15	7	220	499	4
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	736	503	504	0	-	0
Stage 1	502	-	-	-	-	-
Stage 2	234	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	386	569	1061	-	-	-
Stage 1	608	-	-	-	-	-
Stage 2	805	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	382	568	1060	-	-	-
Mov Cap-2 Maneuver	382	-	-	-	-	-
Stage 1	603	-	-	-	-	-
Stage 2	804	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s	11.5	0.2		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1060	-	568	-	-	
HCM Lane V/C Ratio	0.006	-	0.026	-	-	
HCM Control Delay (s)	8.4	0	11.5	-	-	
HCM Lane LOS	A	A	B	-	-	
HCM 95th %tile Q(veh)	0	-	0.1	-	-	

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Synchro 10 Report  
Page 1

## HCM 2010 TWSC 5: Brayton Avenue & Somerset Middle School Driveway

Somerset Middle School  
AM Peak Existing

Intersection						
Int Delay, s/veh	11					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T		T		T	
Traffic Vol, veh/h	43	101	135	94	280	91
Future Vol, veh/h	43	101	135	94	280	91
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	49	49	69	69	71	71
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	88	206	196	136	394	128

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	987	460	523	0	-	0
Stage 1	459	-	-	-	-	-
Stage 2	528	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	274	601	1043	-	-	-
Stage 1	636	-	-	-	-	-
Stage 2	592	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	218	600	1042	-	-	-
Mov Cap-2 Maneuver	218	-	-	-	-	-
Stage 1	506	-	-	-	-	-
Stage 2	591	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	36.6	5.5	0
HCM LOS	E		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1042	-	394	-	-
HCM Lane V/C Ratio	0.188	-	0.746	-	-
HCM Control Delay (s)	9.3	0	36.6	-	-
HCM Lane LOS	A	A	E	-	-
HCM 95th %tile Q(veh)	0.7	-	6	-	-

















11/05/2019  
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Synchro 10 Report  
Page 2



Lanes, Volumes, Timings  
2: Brayton Avenue & Read Street

Somerset Middle School  
AM Peak Existing

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	71	125	50	64	213	20	32	129	59	14	291	79
Future Volume (vph)	71	125	50	64	213	20	32	129	59	14	291	79
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.99			1.00	
Frt		0.972			0.991			0.964			0.972	
Flt Protected		0.986			0.989			0.993			0.998	
Satd. Flow (prot)	0	1777	0	0	1823	0	0	1772	0	0	1798	0
Flt Permitted		0.817			0.890			0.907			0.987	
Satd. Flow (perm)	0	1472	0	0	1640	0	0	1618	0	0	1778	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		27			8			39			27	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		484			761			505			1333	
Travel Time (s)		11.0			17.3			11.5			30.3	
Confl. Peds. (#/hr)	1		1			3	1		2	2		2
Peak Hour Factor	0.91	0.91	0.91	0.92	0.92	0.92	0.89	0.89	0.89	0.75	0.75	0.75
Adj. Flow (vph)	78	137	55	70	232	22	36	145	66	19	388	105
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	270	0	0	324	0	0	247	0	0	512	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	

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Lanes, Volumes, Timings  
2: Brayton Avenue & Read Street

Somerset Middle School  
AM Peak Existing

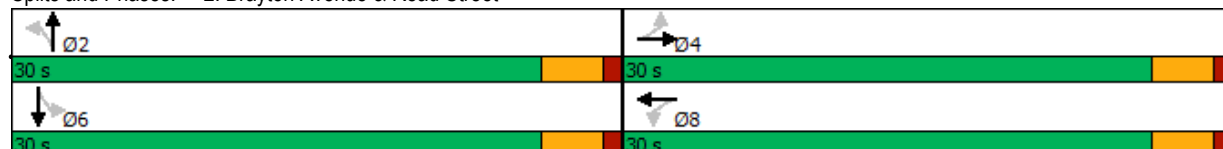


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
<b>Switch Phase</b>												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	22.5	22.5		22.5	22.5		22.5	22.5		22.5	22.5	
Total Split (s)	30.0	30.0		30.0	30.0		30.0	30.0		30.0	30.0	
Total Split (%)	50.0%	50.0%		50.0%	50.0%		50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)	26.0	26.0		26.0	26.0		26.0	26.0		26.0	26.0	
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		4.0			4.0			4.0			4.0	
<b>Lead/Lag</b>												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Max	Max		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		14.6			14.6			26.2			26.2	
Actuated g/C Ratio		0.30			0.30			0.54			0.54	
v/c Ratio		0.59			0.65			0.28			0.53	
Control Delay		18.4			21.0			7.4			10.7	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		18.4			21.0			7.4			10.7	
LOS		B			C			A			B	
Approach Delay		18.4			21.0			7.4			10.7	
Approach LOS		B			C			A			B	
Queue Length 50th (ft)		57			76			27			76	
Queue Length 95th (ft)		112			139			80			148	
Internal Link Dist (ft)		404			681			425			1253	
Turn Bay Length (ft)												
Base Capacity (vph)		801			883			885			966	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.34			0.37			0.28			0.53	

**Intersection Summary**

Area Type: Other  
 Cycle Length: 60  
 Actuated Cycle Length: 48.9  
 Natural Cycle: 45  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 0.65  
 Intersection Signal Delay: 14.1  
 Intersection Capacity Utilization 51.9%  
 Analysis Period (min) 15  
 Intersection LOS: B  
 ICU Level of Service A

Splits and Phases: 2: Brayton Avenue & Read Street



### HCM 2010 TWSC 3: Jaffrey Street & Bark Street

11/05/2019  
School Peak Existing

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T		T		T	
Traffic Vol, veh/h	1	4	9	259	207	2
Future Vol, veh/h	1	4	9	259	207	2
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	25	25	84	84	89	89
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	4	16	11	308	233	2
Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	565	236	236	0	-	0
Stage 1	235	-	-	-	-	-
Stage 2	330	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	486	803	1331	-	-	-
Stage 1	804	-	-	-	-	-
Stage 2	728	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	480	801	1330	-	-	-
Mov Cap-2 Maneuver	480	-	-	-	-	-
Stage 1	795	-	-	-	-	-
Stage 2	727	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	10.2	0.3	0			
HCM LOS	B					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1330	-	707	-	-	
HCM Lane V/C Ratio	0.008	-	0.028	-	-	
HCM Control Delay (s)	7.7	0	10.2	-	-	
HCM Lane LOS	A	A	B	-	-	
HCM 95th %tile Q(veh)	0	-	0.1	-	-	

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## HCM 2010 TWSC

### 5: Brayton Avenue & Somerset Middle School Driveway

11/05/2019  
School Peak Existing

Intersection						
Int Delay, s/veh	6.9					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			Y	Y	
Traffic Vol, veh/h	73	37	17	232	182	27
Future Vol, veh/h	73	37	17	232	182	27
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	36	36	83	83	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	203	103	20	280	207	31

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	544	225	239	0	-	0
Stage 1	224	-	-	-	-	-
Stage 2	320	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	500	814	1328	-	-	-
Stage 1	813	-	-	-	-	-
Stage 2	736	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	490	812	1327	-	-	-
Mov Cap-2 Maneuver	490	-	-	-	-	-
Stage 1	798	-	-	-	-	-
Stage 2	735	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	18.6	0.5	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1327	-	565	-	-
HCM Lane V/C Ratio	0.015	-	0.541	-	-
HCM Control Delay (s)	7.8	0	18.6	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0	-	3.2	-	-

















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## Lanes, Volumes, Timings

### 2: Brayton Avenue & Read Street

11/05/2019  
School Peak Existing

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	70	167	47	12	171	77	62	173	48	48	191	128
Future Volume (vph)	70	167	47	12	171	77	62	173	48	48	191	128
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			0.99			1.00			0.99	
Frt		0.978			0.960			0.977			0.953	
Flt Protected		0.988			0.998			0.989			0.993	
Satd. Flow (prot)	0	1800	0	0	1772	0	0	1793	0	0	1749	0
Flt Permitted		0.810			0.977			0.831			0.923	
Satd. Flow (perm)	0	1475	0	0	1734	0	0	1506	0	0	1626	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		21			44			22			57	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		484			761			505			1333	
Travel Time (s)		11.0			17.3			11.5			30.3	
Confl. Peds. (#/hr)	1					3			2	2		1
Peak Hour Factor	0.89	0.89	0.89	0.76	0.76	0.76	0.91	0.91	0.91	0.66	0.66	0.66
Adj. Flow (vph)	79	188	53	16	225	101	68	190	53	73	289	194
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	320	0	0	342	0	0	311	0	0	556	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	

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Lanes, Volumes, Timings  
2: Brayton Avenue & Read Street

11/05/2019  
School Peak Existing

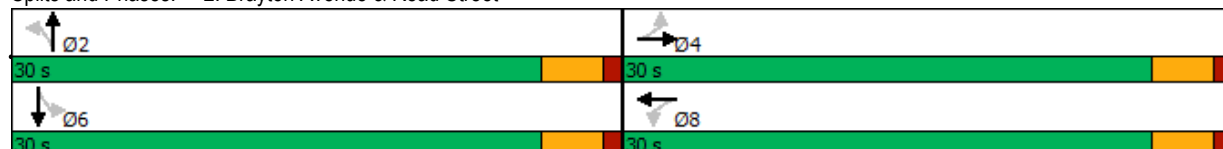


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
<b>Switch Phase</b>												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	22.5	22.5		22.5	22.5		22.5	22.5		22.5	22.5	
Total Split (s)	30.0	30.0		30.0	30.0		30.0	30.0		30.0	30.0	
Total Split (%)	50.0%	50.0%		50.0%	50.0%		50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)	26.0	26.0		26.0	26.0		26.0	26.0		26.0	26.0	
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		4.0			4.0			4.0			4.0	
<b>Lead/Lag</b>												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Max	Max		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		14.5			14.5			26.3			26.3	
Actuated g/C Ratio		0.30			0.30			0.54			0.54	
v/c Ratio		0.71			0.63			0.38			0.62	
Control Delay		23.0			17.9			9.1			12.4	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		23.0			17.9			9.1			12.4	
LOS		C			B			A			B	
Approach Delay		23.0			17.9			9.1			12.4	
Approach LOS		C			B			A			B	
Queue Length 50th (ft)		73			70			40			82	
Queue Length 95th (ft)		137			102			117			133	
Internal Link Dist (ft)		404			681			425			1253	
Turn Bay Length (ft)												
Base Capacity (vph)		802			951			819			899	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.40			0.36			0.38			0.62	

**Intersection Summary**

Area Type:	Other
Cycle Length:	60
Actuated Cycle Length:	48.9
Natural Cycle:	50
Control Type:	Actuated-Uncoordinated
Maximum v/c Ratio:	0.71
Intersection Signal Delay:	15.2
Intersection LOS:	B
Intersection Capacity Utilization:	65.2%
ICU Level of Service:	C
Analysis Period (min):	15

Splits and Phases: 2: Brayton Avenue & Read Street



HCM 2010 TWSC  
3: Jaffrey Street & Bark Street

Somerset Middle School  
PM Peak Existing

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	2	4	4	422	240	1
Future Vol, veh/h	2	4	4	422	240	1
Conflicting Peds, #/hr	0	0	0	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	38	38	78	78	87	87
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	5	11	5	541	276	1
Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	829	278	278	0	-	0
Stage 1	278	-	-	-	-	-
Stage 2	551	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	340	761	1285	-	-	-
Stage 1	769	-	-	-	-	-
Stage 2	577	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	337	760	1284	-	-	-
Mov Cap-2 Maneuver	337	-	-	-	-	-
Stage 1	764	-	-	-	-	-
Stage 2	576	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	11.9	0.1	0			
HCM LOS	B					
Minor Lane/Major Mvmt	NBL	NBTEBLn1	SBT	SBR		
Capacity (veh/h)	1284	-	536	-		
HCM Lane V/C Ratio	0.004	-	0.029	-		
HCM Control Delay (s)	7.8	0	11.9	-		
HCM Lane LOS	A	A	B	-		
HCM 95th %tile Q(veh)	0	-	0.1	-		

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## HCM 2010 TWSC 5: Brayton Avenue & Somerset Middle School Driveway

Somerset Middle School  
PM Peak Existing

Intersection						
Int Delay, s/veh	6.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	47	56	61	378	216	28
Future Vol, veh/h	47	56	61	378	216	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	38	38	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	124	147	72	445	254	33

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	860	271	287	0	-	0
Stage 1	271	-	-	-	-	-
Stage 2	589	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	326	768	1275	-	-	-
Stage 1	775	-	-	-	-	-
Stage 2	554	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	302	768	1275	-	-	-
Mov Cap-2 Maneuver	302	-	-	-	-	-
Stage 1	717	-	-	-	-	-
Stage 2	554	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	24.3	1.1	0
HCM LOS	C		

















Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1275	-	451	-	-
HCM Lane V/C Ratio	0.056	-	0.601	-	-
HCM Control Delay (s)	8	0	24.3	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.2	-	3.9	-	-



## Lanes, Volumes, Timings

### 2: Brayton Avenue & Read Street

Somerset Middle School  
PM Peak Existing

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	110	252	48	65	199	30	71	300	118	15	181	80
Future Volume (vph)	110	252	48	65	199	30	71	300	118	15	181	80
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.99			0.99	
Frt		0.984			0.986			0.967			0.961	
Flt Protected		0.987			0.989			0.993			0.997	
Satd. Flow (prot)	0	1809	0	0	1812	0	0	1779	0	0	1774	0
Flt Permitted		0.809			0.834			0.908			0.967	
Satd. Flow (perm)	0	1483	0	0	1528	0	0	1627	0	0	1720	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		14			12			34			43	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		484			761			505			1333	
Travel Time (s)		11.0			17.3			11.5			30.3	
Confl. Peds. (#/hr)	1					2			1	1		1
Peak Hour Factor	0.90	0.90	0.90	0.87	0.87	0.87	0.96	0.96	0.96	0.81	0.81	0.81
Adj. Flow (vph)	122	280	53	75	229	34	74	313	123	19	223	99
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	455	0	0	338	0	0	510	0	0	341	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	22.5	22.5		22.5	22.5		22.5	22.5		22.5	22.5	
Total Split (s)	30.0	30.0		30.0	30.0		30.0	30.0		30.0	30.0	
Total Split (%)	50.0%	50.0%		50.0%	50.0%		50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)	26.0	26.0		26.0	26.0		26.0	26.0		26.0	26.0	
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		4.0			4.0			4.0			4.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Max	Max		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		19.9			19.9			26.3			26.3	
Actuated g/C Ratio		0.37			0.37			0.48			0.48	
v/c Ratio		0.82			0.60			0.63			0.40	
Control Delay		28.5			17.8			15.7			10.8	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		28.5			17.8			15.7			10.8	
LOS		C			B			B			B	

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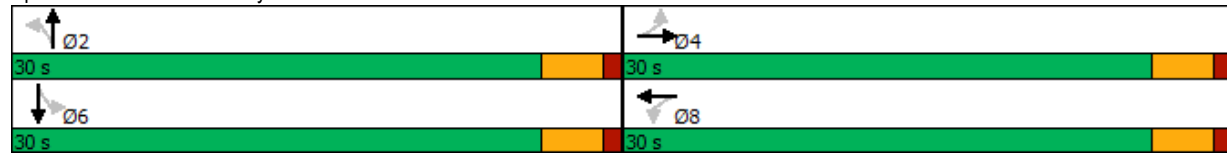
Lanes, Volumes, Timings  
2: Brayton Avenue & Read Street

Somerset Middle School  
PM Peak Existing

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach Delay		28.5			17.8			15.7			10.8	
Approach LOS		C			B			B			B	
Queue Length 50th (ft)		123			81			107			57	
Queue Length 95th (ft)		#225			140			236			111	
Internal Link Dist (ft)		404			681			425			1253	
Turn Bay Length (ft)												
Base Capacity (vph)		725			745			805			854	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.63			0.45			0.63			0.40	

Intersection Summary	
Area Type:	Other
Cycle Length:	60
Actuated Cycle Length:	54.3
Natural Cycle:	45
Control Type:	Actuated-Uncoordinated
Maximum v/c Ratio:	0.82
Intersection Signal Delay:	18.6
Intersection LOS:	B
Intersection Capacity Utilization:	84.2%
ICU Level of Service:	E
Analysis Period (min):	15
# 95th percentile volume exceeds capacity, queue may be longer.	
Queue shown is maximum after two cycles.	

Splits and Phases: 2: Brayton Avenue & Read Street



### HCM 2010 TWSC 3: Jaffrey Street & Bark Street

Somerset Middle School  
AM Peak No-Build

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T			T		
Traffic Vol, veh/h	0	13	5	137	372	4
Future Vol, veh/h	0	13	5	137	372	4
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	81	81	60	60	72	72
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	16	8	228	517	6
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	765	522	524	0	-	0
Stage 1	521	-	-	-	-	-
Stage 2	244	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	371	555	1043	-	-	-
Stage 1	596	-	-	-	-	-
Stage 2	797	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	367	554	1042	-	-	-
Mov Cap-2 Maneuver	367	-	-	-	-	-
Stage 1	590	-	-	-	-	-
Stage 2	796	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s	11.7	0.3		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1042	-	554	-	-	
HCM Lane V/C Ratio	0.008	-	0.029	-	-	
HCM Control Delay (s)	8.5	0	11.7	-	-	
HCM Lane LOS	A	A	B	-	-	
HCM 95th %tile Q(veh)	0	-	0.1	-	-	

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## HCM 2010 TWSC 5: Brayton Avenue & Somerset Middle School Driveway

Somerset Middle School  
AM Peak No-Build

Intersection						
Int Delay, s/veh	13.2					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T		T		T	
Traffic Vol, veh/h	45	105	140	98	290	95
Future Vol, veh/h	45	105	140	98	290	95
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	49	49	69	69	71	71
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	92	214	203	142	408	134

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	1024	477	543	0	-	0
Stage 1	476	-	-	-	-	-
Stage 2	548	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	261	588	1026	-	-	-
Stage 1	625	-	-	-	-	-
Stage 2	579	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	204	587	1025	-	-	-
Mov Cap-2 Maneuver	204	-	-	-	-	-
Stage 1	490	-	-	-	-	-
Stage 2	578	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	45.3	5.5	0
HCM LOS	E		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1025	-	376	-	-
HCM Lane V/C Ratio	0.198	-	0.814	-	-
HCM Control Delay (s)	9.4	0	45.3	-	-
HCM Lane LOS	A	A	E	-	-
HCM 95th %tile Q(veh)	0.7	-	7.2	-	-

















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## Lanes, Volumes, Timings

### 2: Brayton Avenue & Read Street

Somerset Middle School  
AM Peak No-Build

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	74	130	52	67	221	21	34	134	62	15	302	82
Future Volume (vph)	74	130	52	67	221	21	34	134	62	15	302	82
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.99			1.00	
Frt		0.973			0.991			0.964			0.972	
Flt Protected		0.986			0.989			0.993			0.998	
Satd. Flow (prot)	0	1779	0	0	1823	0	0	1772	0	0	1798	0
Flt Permitted		0.810			0.885			0.902			0.986	
Satd. Flow (perm)	0	1461	0	0	1631	0	0	1609	0	0	1777	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		27			8			39			27	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		484			761			505			1333	
Travel Time (s)		11.0			17.3			11.5			30.3	
Confl. Peds. (#/hr)	1		1			3	1		2	2		2
Peak Hour Factor	0.91	0.91	0.91	0.92	0.92	0.92	0.89	0.89	0.89	0.75	0.75	0.75
Adj. Flow (vph)	81	143	57	73	240	23	38	151	70	20	403	109
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	281	0	0	336	0	0	259	0	0	532	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	

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Lanes, Volumes, Timings  
2: Brayton Avenue & Read Street

Somerset Middle School  
AM Peak No-Build

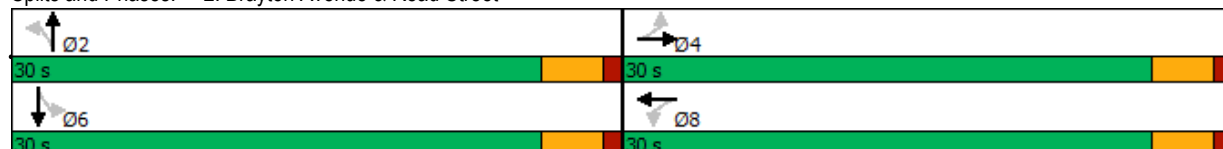


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
<b>Switch Phase</b>												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	22.5	22.5		22.5	22.5		22.5	22.5		22.5	22.5	
Total Split (s)	30.0	30.0		30.0	30.0		30.0	30.0		30.0	30.0	
Total Split (%)	50.0%	50.0%		50.0%	50.0%		50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)	26.0	26.0		26.0	26.0		26.0	26.0		26.0	26.0	
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		4.0			4.0			4.0			4.0	
<b>Lead/Lag</b>												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Max	Max		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		15.1			15.1			26.2			26.2	
Actuated g/C Ratio		0.31			0.31			0.53			0.53	
v/c Ratio		0.61			0.67			0.30			0.56	
Control Delay		18.7			21.3			7.8			11.4	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		18.7			21.3			7.8			11.4	
LOS		B			C			A			B	
Approach Delay		18.7			21.3			7.8			11.4	
Approach LOS		B			C			A			B	
Queue Length 50th (ft)		60			80			30			83	
Queue Length 95th (ft)		118			145			88			161	
Internal Link Dist (ft)		404			681			425			1253	
Turn Bay Length (ft)												
Base Capacity (vph)		789			870			873			956	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.36			0.39			0.30			0.56	

**Intersection Summary**

Area Type: Other  
 Cycle Length: 60  
 Actuated Cycle Length: 49.4  
 Natural Cycle: 45  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 0.67  
 Intersection Signal Delay: 14.6  
 Intersection Capacity Utilization 53.8%  
 Analysis Period (min) 15  
 Intersection LOS: B  
 ICU Level of Service A

Splits and Phases: 2: Brayton Avenue & Read Street



HCM 2010 TWSC  
3: Jaffrey Street & Bark Street

Somerset Middle School  
School Peak No-Build

Intersection						
Int Delay, s/veh	0.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	2	5	1	269	215	3
Future Vol, veh/h	2	5	1	269	215	3
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	25	25	84	84	89	89
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	20	1	320	242	3

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	567	246	246	0	-	0
Stage 1	245	-	-	-	-	-
Stage 2	322	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	485	793	1320	-	-	-
Stage 1	796	-	-	-	-	-
Stage 2	735	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	484	791	1319	-	-	-
Mov Cap-2 Maneuver	484	-	-	-	-	-
Stage 1	794	-	-	-	-	-
Stage 2	734	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.6	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBTEBLn1	SBT	SBR
Capacity (veh/h)	1319	-	670	-
HCM Lane V/C Ratio	0.001	-	0.042	-
HCM Control Delay (s)	7.7	0	10.6	-
HCM Lane LOS	A	A	B	-
HCM 95th %tile Q(veh)	0	-	0.1	-

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## HCM 2010 TWSC 5: Brayton Avenue & Somerset Middle School Driveway

Somerset Middle School  
School Peak No-Build

Intersection						
Int Delay, s/veh	7.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	76	39	18	241	189	28
Future Vol, veh/h	76	39	18	241	189	28
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	36	36	83	83	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	211	108	22	290	215	32

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	566	233	248	0	-	0
Stage 1	232	-	-	-	-	-
Stage 2	334	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	486	806	1318	-	-	-
Stage 1	807	-	-	-	-	-
Stage 2	725	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	475	804	1317	-	-	-
Mov Cap-2 Maneuver	475	-	-	-	-	-
Stage 1	790	-	-	-	-	-
Stage 2	724	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	20.1	0.5	0
HCM LOS	C		

















Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1317	-	552	-	-
HCM Lane V/C Ratio	0.016	-	0.579	-	-
HCM Control Delay (s)	7.8	0	20.1	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.1	-	3.7	-	-



## Lanes, Volumes, Timings

### 2: Brayton Avenue & Read Street

Somerset Middle School  
School Peak No-Build

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	73	173	49	65	180	50	50	198	133	13	178	80
Future Volume (vph)	73	173	49	65	180	50	50	198	133	13	178	80
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.99			0.99	
Frt		0.978			0.977			0.953			0.960	
Flt Protected		0.988			0.989			0.993			0.998	
Satd. Flow (prot)	0	1793	0	0	1792	0	0	1748	0	0	1772	0
Flt Permitted		0.818			0.858			0.915			0.975	
Satd. Flow (perm)	0	1485	0	0	1555	0	0	1611	0	0	1731	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		21			22			57			44	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		484			761			505			1333	
Travel Time (s)		11.0			17.3			11.5			30.3	
Confl. Peds. (#/hr)	1		1			3	1		2	2		2
Peak Hour Factor	0.89	0.89	0.89	0.76	0.76	0.76	0.91	0.91	0.91	0.66	0.66	0.66
Adj. Flow (vph)	82	194	55	86	237	66	55	218	146	20	270	121
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	331	0	0	389	0	0	419	0	0	411	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	

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Lanes, Volumes, Timings  
2: Brayton Avenue & Read Street

Somerset Middle School  
School Peak No-Build

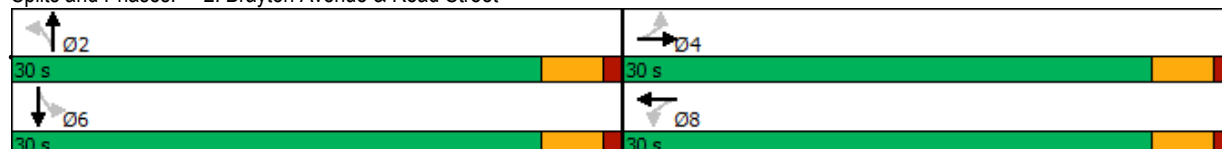


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
<b>Switch Phase</b>												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	22.5	22.5		22.5	22.5		22.5	22.5		22.5	22.5	
Total Split (s)	30.0	30.0		30.0	30.0		30.0	30.0		30.0	30.0	
Total Split (%)	50.0%	50.0%		50.0%	50.0%		50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)	26.0	26.0		26.0	26.0		26.0	26.0		26.0	26.0	
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		4.0			4.0			4.0			4.0	
<b>Lead/Lag</b>												
<b>Lead-Lag Optimize?</b>												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Max	Max		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		17.1			17.1			26.3			26.3	
Actuated g/C Ratio		0.33			0.33			0.51			0.51	
v/c Ratio		0.65			0.73			0.49			0.45	
Control Delay		19.8			22.8			11.0			10.6	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		19.8			22.8			11.0			10.6	
LOS		B			C			B			B	
Approach Delay		19.8			22.8			11.0			10.6	
Approach LOS		B			C			B			B	
Queue Length 50th (ft)		77			94			61			61	
Queue Length 95th (ft)		140			130			170			102	
Internal Link Dist (ft)		404			681			425			1253	
<b>Turn Bay Length (ft)</b>												
Base Capacity (vph)		768			804			850			905	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.43			0.48			0.49			0.45	

**Intersection Summary**

Area Type:	Other
Cycle Length:	60
Actuated Cycle Length:	51.5
Natural Cycle:	45
Control Type:	Actuated-Uncoordinated
Maximum v/c Ratio:	0.73
Intersection Signal Delay:	15.7
Intersection LOS:	B
Intersection Capacity Utilization:	67.3%
ICU Level of Service:	C
Analysis Period (min):	15

Splits and Phases: 2: Brayton Avenue & Read Street



### HCM 2010 TWSC 3: Jaffrey Street & Bark Street

Somerset Middle School  
PM Peak No Build

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			Y	Y	
Traffic Vol, veh/h	3	5	5	437	249	2
Future Vol, veh/h	3	5	5	437	249	2
Conflicting Peds, #/hr	0	0	0	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	38	38	78	78	87	87
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	13	6	560	286	2
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	860	288	289	0	-	0
Stage 1	288	-	-	-	-	-
Stage 2	572	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	326	751	1273	-	-	-
Stage 1	761	-	-	-	-	-
Stage 2	565	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	323	750	1272	-	-	-
Mov Cap-2 Maneuver	323	-	-	-	-	-
Stage 1	755	-	-	-	-	-
Stage 2	564	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s	12.5	0.1		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1272	-	501	-	-	
HCM Lane V/C Ratio	0.005	-	0.042	-	-	
HCM Control Delay (s)	7.8	0	12.5	-	-	
HCM Lane LOS	A	A	B	-	-	
HCM 95th %tile Q(veh)	0	-	0.1	-	-	

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## HCM 2010 TWSC

### 5: Brayton Avenue & Somerset Middle School Driveway

Somerset Middle School  
PM Peak No Build

Intersection						
Int Delay, s/veh	7.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	49	58	64	392	224	29
Future Vol, veh/h	49	58	64	392	224	29
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	38	38	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	129	153	75	461	264	34

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	892	281	298	0	-	0
Stage 1	281	-	-	-	-	-
Stage 2	611	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	312	758	1263	-	-	-
Stage 1	767	-	-	-	-	-
Stage 2	542	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	287	758	1263	-	-	-
Mov Cap-2 Maneuver	287	-	-	-	-	-
Stage 1	706	-	-	-	-	-
Stage 2	542	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	27.5	1.1	0
HCM LOS	D		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1263	-	433	-	-
HCM Lane V/C Ratio	0.06	-	0.65	-	-
HCM Control Delay (s)	8	0	27.5	-	-
HCM Lane LOS	A	A	D	-	-
HCM 95th %tile Q(veh)	0.2	-	4.5	-	-

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## Lanes, Volumes, Timings

### 2: Read Street & Brayton Avenue

Somerset Middle School  
PM Peak No Build

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (vph)	114	261	50	68	207	32	74	311	123	16	188	83
Future Volume (vph)	114	261	50	68	207	32	74	311	123	16	188	83
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.99			0.99	
Frt		0.984			0.986			0.967			0.961	
Flt Protected		0.987			0.989			0.993			0.997	
Satd. Flow (prot)	0	1809	0	0	1812	0	0	1779	0	0	1774	0
Flt Permitted		0.801			0.830			0.904			0.965	
Satd. Flow (perm)	0	1468	0	0	1521	0	0	1620	0	0	1717	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		14			12			34			43	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		484			761			505			1333	
Travel Time (s)		11.0			17.3			11.5			30.3	
Confl. Peds. (#/hr)	1					2			1	1		1
Peak Hour Factor	0.90	0.90	0.90	0.87	0.87	0.87	0.96	0.96	0.96	0.81	0.81	0.81
Adj. Flow (vph)	127	290	56	78	238	37	77	324	128	20	232	102
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	473	0	0	353	0	0	529	0	0	354	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	22.5	22.5		22.5	22.5		22.5	22.5		22.5	22.5	
Total Split (s)	30.0	30.0		30.0	30.0		30.0	30.0		30.0	30.0	
Total Split (%)	50.0%	50.0%		50.0%	50.0%		50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)	26.0	26.0		26.0	26.0		26.0	26.0		26.0	26.0	
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		4.0			4.0			4.0			4.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Max	Max		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		20.9			20.9			26.2			26.2	
Actuated g/C Ratio		0.38			0.38			0.47			0.47	
v/c Ratio		0.84			0.61			0.67			0.42	
Control Delay		29.7			17.9			17.5			11.4	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		29.7			17.9			17.5			11.4	
LOS		C			B			B			B	

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Lanes, Volumes, Timings  
2: Read Street & Brayton Avenue

Somerset Middle School  
PM Peak No Build



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach Delay		29.7			17.9			17.5			11.4	
Approach LOS		C			B			B			B	
Queue Length 50th (ft)		131			86			127			67	
Queue Length 95th (ft)		#272			147			#265			116	
Internal Link Dist (ft)		404			681			425			1253	
Turn Bay Length (ft)												
Base Capacity (vph)		704			728			787			838	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.67			0.48			0.67			0.42	

**Intersection Summary**

Area Type: Other

Cycle Length: 60

Actuated Cycle Length: 55.2

Natural Cycle: 45

Control Type: Actuated-Uncoordinated

Maximum v/c Ratio: 0.84

Intersection Signal Delay: 19.7

Intersection LOS: B

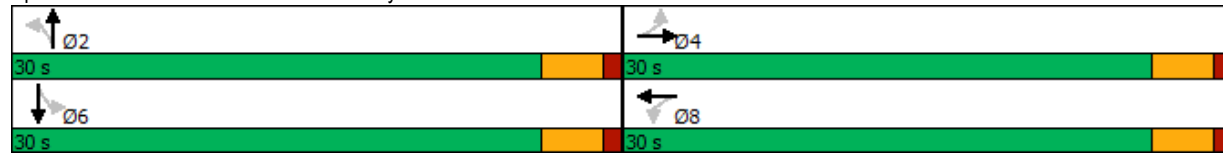
Intersection Capacity Utilization 87.0%

ICU Level of Service E

Analysis Period (min) 15

# 95th percentile volume exceeds capacity, queue may be longer.  
Queue shown is maximum after two cycles.

Splits and Phases: 2: Read Street & Brayton Avenue



HCM 2010 TWSC  
3: Jaffrey Street & Bark Street

Somerset Middle School  
AM Peak Build

Intersection						
Int Delay, s/veh	0.3					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			Y	Y	
Traffic Vol, veh/h	0	14	5	145	388	4
Future Vol, veh/h	0	14	5	145	388	4
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	81	81	60	60	72	72
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	17	8	242	539	6

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	801	544	546	0	-	0
Stage 1	543	-	-	-	-	-
Stage 2	258	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	354	539	1023	-	-	-
Stage 1	582	-	-	-	-	-
Stage 2	785	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	350	538	1022	-	-	-
Mov Cap-2 Maneuver	350	-	-	-	-	-
Stage 1	576	-	-	-	-	-
Stage 2	784	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	11.9	0.3	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1022	-	538	-	-
HCM Lane V/C Ratio	0.008	-	0.032	-	-
HCM Control Delay (s)	8.6	0	11.9	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

## HCM 2010 TWSC

### 5: Brayton Avenue & Somerset Middle School Driveway

Somerset Middle School  
AM Peak Build

Intersection						
Int Delay, s/veh	8.7					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	T		T		T	
Traffic Vol, veh/h	53	12	164	98	290	111
Future Vol, veh/h	53	12	164	98	290	111
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	49	49	69	69	71	71
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	108	24	238	142	408	156

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	1105	488	565	0	-	0
Stage 1	487	-	-	-	-	-
Stage 2	618	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	233	580	1007	-	-	-
Stage 1	618	-	-	-	-	-
Stage 2	538	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	173	579	1006	-	-	-
Mov Cap-2 Maneuver	173	-	-	-	-	-
Stage 1	459	-	-	-	-	-
Stage 2	537	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	53.2	6.1	0
HCM LOS	F		

Minor Lane/Major Mvmt	NBL	NBTEBLn1	SBT	SBR
Capacity (veh/h)	1006	-	199	-
HCM Lane V/C Ratio	0.236	-	0.667	-
HCM Control Delay (s)	9.7	0	53.2	-
HCM Lane LOS	A	A	F	-
HCM 95th %tile Q(veh)	0.9	-	4	-

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














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Page 2



## Lanes, Volumes, Timings

### 2: Brayton Avenue & Read Street

Somerset Middle School  
AM Peak Build

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	82	130	52	67	221	23	34	148	62	16	316	86
Future Volume (vph)	82	130	52	67	221	23	34	148	62	16	316	86
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.99			1.00	
Frt		0.973			0.990			0.966			0.972	
Flt Protected		0.985			0.989			0.993			0.998	
Satd. Flow (prot)	0	1778	0	0	1820	0	0	1776	0	0	1798	0
Flt Permitted		0.785			0.883			0.903			0.985	
Satd. Flow (perm)	0	1416	0	0	1625	0	0	1615	0	0	1775	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		26			8			36			28	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		484			761			505			1333	
Travel Time (s)		11.0			17.3			11.5			30.3	
Confl. Peds. (#/hr)	1		1			3	1		2	2		2
Peak Hour Factor	0.91	0.91	0.91	0.92	0.92	0.92	0.89	0.89	0.89	0.75	0.75	0.75
Adj. Flow (vph)	90	143	57	73	240	25	38	166	70	21	421	115
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	290	0	0	338	0	0	274	0	0	557	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	

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Lanes, Volumes, Timings  
2: Brayton Avenue & Read Street

Somerset Middle School  
AM Peak Build

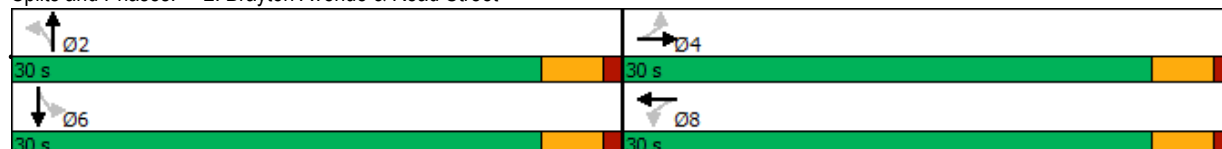


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
<b>Switch Phase</b>												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	22.5	22.5		22.5	22.5		22.5	22.5		22.5	22.5	
Total Split (s)	30.0	30.0		30.0	30.0		30.0	30.0		30.0	30.0	
Total Split (%)	50.0%	50.0%		50.0%	50.0%		50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)	26.0	26.0		26.0	26.0		26.0	26.0		26.0	26.0	
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		4.0			4.0			4.0			4.0	
<b>Lead/Lag</b>												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Max	Max		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		15.2			15.2			26.2			26.2	
Actuated g/C Ratio		0.31			0.31			0.53			0.53	
v/c Ratio		0.64			0.67			0.31			0.58	
Control Delay		20.1			21.4			8.1			12.0	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		20.1			21.4			8.1			12.0	
LOS		C			C			A			B	
Approach Delay		20.1			21.4			8.1			12.0	
Approach LOS		C			C			A			B	
Queue Length 50th (ft)		63			81			33			89	
Queue Length 95th (ft)		123			146			95			172	
Internal Link Dist (ft)		404			681			425			1253	
Turn Bay Length (ft)												
Base Capacity (vph)		763			865			873			954	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.38			0.39			0.31			0.58	

**Intersection Summary**

Area Type: Other  
 Cycle Length: 60  
 Actuated Cycle Length: 49.5  
 Natural Cycle: 50  
 Control Type: Actuated-Uncoordinated  
 Maximum v/c Ratio: 0.67  
 Intersection Signal Delay: 15.1  
 Intersection Capacity Utilization 55.8%  
 Analysis Period (min) 15  
 Intersection LOS: B  
 ICU Level of Service B

Splits and Phases: 2: Brayton Avenue & Read Street



HCM 2010 TWSC  
3: Jaffrey Street & Bark Street

Somerset Middle School  
School Peak Build

Intersection						
Int Delay, s/veh	0.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			↑	↑	
Traffic Vol, veh/h	2	5	10	282	220	3
Future Vol, veh/h	2	5	10	282	220	3
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	25	25	84	84	89	89
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	20	12	336	247	3

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	610	251	251	0	-	0
Stage 1	250	-	-	-	-	-
Stage 2	360	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	458	788	1314	-	-	-
Stage 1	792	-	-	-	-	-
Stage 2	706	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	452	786	1313	-	-	-
Mov Cap-2 Maneuver	452	-	-	-	-	-
Stage 1	782	-	-	-	-	-
Stage 2	705	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.8	0.3	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBTEBLn1	SBT	SBR
Capacity (veh/h)	1313	-	649	-
HCM Lane V/C Ratio	0.009	-	0.043	-
HCM Control Delay (s)	7.8	0	10.8	-
HCM Lane LOS	A	A	B	-
HCM 95th %tile Q(veh)	0	-	0.1	-

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## HCM 2010 TWSC 5: Brayton Avenue & Somerset Middle School Driveway

Somerset Middle School  
School Peak Build

Intersection						
Int Delay, s/veh	10.1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	89	46	21	241	189	33
Future Vol, veh/h	89	46	21	241	189	33
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	36	36	83	83	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	247	128	25	290	215	38

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	575	236	254	0	-	0
Stage 1	235	-	-	-	-	-
Stage 2	340	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	480	803	1311	-	-	-
Stage 1	804	-	-	-	-	-
Stage 2	721	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	468	801	1310	-	-	-
Mov Cap-2 Maneuver	468	-	-	-	-	-
Stage 1	785	-	-	-	-	-
Stage 2	720	-	-	-	-	-

















Approach	EB	NB	SB
HCM Control Delay, s	24.9	0.6	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1310	-	545	-	-
HCM Lane V/C Ratio	0.019	-	0.688	-	-
HCM Control Delay (s)	7.8	0	24.9	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.1	-	5.3	-	-

## Lanes, Volumes, Timings

### 2: Brighton Avenue & Read Street

Somerset Middle School  
School Peak Build

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	74	173	49	65	180	50	50	200	133	13	182	82
Future Volume (vph)	74	173	49	65	180	50	50	200	133	13	182	82
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.99			0.99	
Frt		0.978			0.977			0.953			0.960	
Flt Protected		0.988			0.989			0.994			0.998	
Satd. Flow (prot)	0	1793	0	0	1792	0	0	1750	0	0	1772	0
Flt Permitted		0.816			0.858			0.914			0.976	
Satd. Flow (perm)	0	1481	0	0	1555	0	0	1609	0	0	1733	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		21			22			56			44	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		484			761			505			1333	
Travel Time (s)		11.0			17.3			11.5			30.3	
Confl. Peds. (#/hr)	1		1			3	1		2	2		2
Peak Hour Factor	0.89	0.89	0.89	0.76	0.76	0.76	0.91	0.91	0.91	0.66	0.66	0.66
Adj. Flow (vph)	83	194	55	86	237	66	55	220	146	20	276	124
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	332	0	0	389	0	0	421	0	0	420	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	2		1	2		1	2		1	2	
Detector Template	Left	Thru		Left	Thru		Left	Thru		Left	Thru	
Leading Detector (ft)	20	100		20	100		20	100		20	100	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	20	6		20	6		20	6		20	6	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 2 Position(ft)		94			94			94			94	
Detector 2 Size(ft)		6			6			6			6	
Detector 2 Type		Cl+Ex			Cl+Ex			Cl+Ex			Cl+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	

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Lanes, Volumes, Timings  
2: Brayton Avenue & Read Street

Somerset Middle School  
School Peak Build

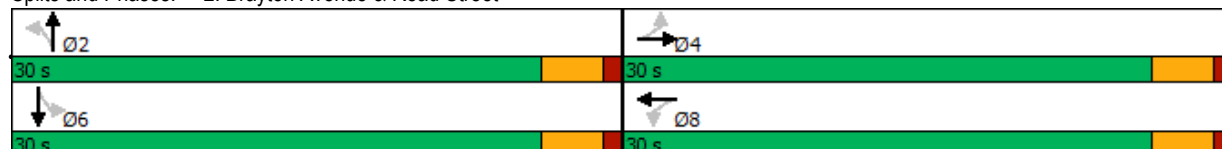


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
<b>Switch Phase</b>												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	22.5	22.5		22.5	22.5		22.5	22.5		22.5	22.5	
Total Split (s)	30.0	30.0		30.0	30.0		30.0	30.0		30.0	30.0	
Total Split (%)	50.0%	50.0%		50.0%	50.0%		50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)	26.0	26.0		26.0	26.0		26.0	26.0		26.0	26.0	
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		4.0			4.0			4.0			4.0	
<b>Lead/Lag</b>												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Max	Max		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		17.1			17.1			26.3			26.3	
Actuated g/C Ratio		0.33			0.33			0.51			0.51	
v/c Ratio		0.66			0.73			0.50			0.46	
Control Delay		20.0			22.8			11.1			10.7	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		20.0			22.8			11.1			10.7	
LOS		B			C			B			B	
Approach Delay		20.0			22.8			11.1			10.7	
Approach LOS		B			C			B			B	
Queue Length 50th (ft)		77			94			61			62	
Queue Length 95th (ft)		141			130			172			104	
Internal Link Dist (ft)		404			681			425			1253	
Turn Bay Length (ft)												
Base Capacity (vph)		766			804			848			906	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.43			0.48			0.50			0.46	

**Intersection Summary**

Area Type:	Other
Cycle Length:	60
Actuated Cycle Length:	51.5
Natural Cycle:	45
Control Type:	Actuated-Uncoordinated
Maximum v/c Ratio:	0.73
Intersection Signal Delay:	15.8
Intersection LOS:	B
Intersection Capacity Utilization:	67.8%
ICU Level of Service:	C
Analysis Period (min):	15

Splits and Phases: 2: Brayton Avenue & Read Street



### HCM 2010 TWSC 3: Jaffrey Street & Bark Street

Somerset Middle School  
PM Peak Build

Intersection						
Int Delay, s/veh	0.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			Y	Y	
Traffic Vol, veh/h	3	5	5	445	254	2
Future Vol, veh/h	3	5	5	445	254	2
Conflicting Peds, #/hr	0	0	0	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	38	38	78	78	87	87
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	8	13	6	571	292	2
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	877	294	295	0	-	0
Stage 1	294	-	-	-	-	-
Stage 2	583	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	319	745	1266	-	-	-
Stage 1	756	-	-	-	-	-
Stage 2	558	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	316	744	1265	-	-	-
Mov Cap-2 Maneuver	316	-	-	-	-	-
Stage 1	750	-	-	-	-	-
Stage 2	557	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s	12.6	0.1		0		
HCM LOS	B					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1265	-	493	-	-	
HCM Lane V/C Ratio	0.005	-	0.043	-	-	
HCM Control Delay (s)	7.9	0	12.6	-	-	
HCM Lane LOS	A	A	B	-	-	
HCM 95th %tile Q(veh)	0	-	0.1	-	-	

## HCM 2010 TWSC 5: Brayton Avenue & Somerset Middle School Driveway

Somerset Middle School  
PM Peak Build

Intersection						
Int Delay, s/veh	11.5					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	57	68	75	392	224	34
Future Vol, veh/h	57	68	75	392	224	34
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	38	38	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	150	179	88	461	264	40

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	921	284	304	0	-	0
Stage 1	284	-	-	-	-	-
Stage 2	637	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	300	755	1257	-	-	-
Stage 1	764	-	-	-	-	-
Stage 2	527	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	272	755	1257	-	-	-
Mov Cap-2 Maneuver	272	-	-	-	-	-
Stage 1	692	-	-	-	-	-
Stage 2	527	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	39.1	1.3	0
HCM LOS	E		

















Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1257	-	417	-	-
HCM Lane V/C Ratio	0.07	-	0.789	-	-
HCM Control Delay (s)	8.1	0	39.1	-	-
HCM Lane LOS	A	A	E	-	-
HCM 95th %tile Q(veh)	0.2	-	6.9	-	-



## Lanes, Volumes, Timings

### 2: Brighton Avenue & Read Street

Somerset Middle School  
PM Peak Build

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	117	261	50	68	207	34	74	318	123	17	195	86
Future Volume (vph)	117	261	50	68	207	34	74	318	123	17	195	86
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped Bike Factor		1.00			1.00			0.99			0.99	
Frt		0.984			0.985			0.968			0.961	
Flt Protected		0.987			0.989			0.993			0.997	
Satd. Flow (prot)	0	1809	0	0	1810	0	0	1781	0	0	1774	0
Flt Permitted		0.796			0.831			0.902			0.964	
Satd. Flow (perm)	0	1459	0	0	1521	0	0	1618	0	0	1715	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		14			13			33			43	
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		484			761			505			1333	
Travel Time (s)		11.0			17.3			11.5			30.3	
Confl. Peds. (#/hr)	1					2			1	1		1
Peak Hour Factor	0.90	0.90	0.90	0.87	0.87	0.87	0.96	0.96	0.96	0.81	0.81	0.81
Adj. Flow (vph)	130	290	56	78	238	39	77	331	128	21	241	106
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	476	0	0	355	0	0	536	0	0	368	0
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	
Minimum Split (s)	22.5	22.5		22.5	22.5		22.5	22.5		22.5	22.5	
Total Split (s)	30.0	30.0		30.0	30.0		30.0	30.0		30.0	30.0	
Total Split (%)	50.0%	50.0%		50.0%	50.0%		50.0%	50.0%		50.0%	50.0%	
Maximum Green (s)	26.0	26.0		26.0	26.0		26.0	26.0		26.0	26.0	
Yellow Time (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		4.0			4.0			4.0			4.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		Max	Max		Max	Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Dont Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		21.2			21.2			26.2			26.2	
Actuated g/C Ratio		0.38			0.38			0.47			0.47	
v/c Ratio		0.84			0.60			0.69			0.44	
Control Delay		30.2			17.8			18.1			11.8	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay		30.2			17.8			18.1			11.8	
LOS		C			B			B			B	

Somerset Middle School 10/17/2019 PM Peak Build  
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Lanes, Volumes, Timings  
2: Brayton Avenue & Read Street

Somerset Middle School  
PM Peak Build

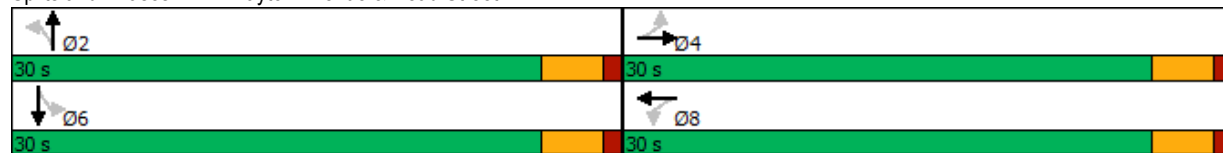


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Approach Delay		30.2			17.8			18.1			11.8	
Approach LOS		C			B			B			B	
Queue Length 50th (ft)		132			86			133			72	
Queue Length 95th (ft)		#277			148			#295			122	
Internal Link Dist (ft)		404			681			425			1253	
Turn Bay Length (ft)												
Base Capacity (vph)		697			726			782			833	
Starvation Cap Reductn		0			0			0			0	
Spillback Cap Reductn		0			0			0			0	
Storage Cap Reductn		0			0			0			0	
Reduced v/c Ratio		0.68			0.49			0.69			0.44	

Intersection Summary

Area Type:	Other
Cycle Length:	60
Actuated Cycle Length:	55.5
Natural Cycle:	45
Control Type:	Actuated-Uncoordinated
Maximum v/c Ratio:	0.84
Intersection Signal Delay:	20.0
Intersection LOS:	C
Intersection Capacity Utilization:	88.6%
ICU Level of Service:	E
Analysis Period (min):	15
# 95th percentile volume exceeds capacity, queue may be longer.	
Queue shown is maximum after two cycles.	

Splits and Phases: 2: Brayton Avenue & Read Street



## HCM 2010 TWSC

### 5: Brayton Avenue & School Driveway north

Somerset Middle School  
AM Peak Build 2 School Driveways

Intersection						
Int Delay, s/veh	3.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			Y	Y	
Traffic Vol, veh/h	60	107	12	116	351	19
Future Vol, veh/h	60	107	12	116	351	19
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	69	69	71	71
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	65	116	17	168	494	27
Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	711	510	522	0	-	0
Stage 1	509	-	-	-	-	-
Stage 2	202	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	400	563	1044	-	-	-
Stage 1	604	-	-	-	-	-
Stage 2	832	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	392	562	1043	-	-	-
Mov Cap-2 Maneuver	392	-	-	-	-	-
Stage 1	593	-	-	-	-	-
Stage 2	831	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	16.8	0.8	0			
HCM LOS	C					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1043	-	486	-	-	
HCM Lane V/C Ratio	0.017	-	0.374	-	-	
HCM Control Delay (s)	8.5	0	16.8	-	-	
HCM Lane LOS	A	A	C	-	-	
HCM 95th %tile Q(veh)	0.1	-	1.7	-	-	

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## HCM 2010 TWSC

### 5: Brayton Avenue & School Driveway South

Somerset Middle School  
AM Peak Build 2 School Driveways

Intersection						
Int Delay, s/veh	2.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			Y	Y	
Traffic Vol, veh/h	19	12	113	109	334	64
Future Vol, veh/h	19	12	113	109	334	64
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	69	69	71	71
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	21	13	164	158	470	90

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	1002	517	561	0	-	0
Stage 1	516	-	-	-	-	-
Stage 2	486	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	269	558	1010	-	-	-
Stage 1	599	-	-	-	-	-
Stage 2	618	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	221	557	1009	-	-	-
Mov Cap-2 Maneuver	221	-	-	-	-	-
Stage 1	492	-	-	-	-	-
Stage 2	617	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	19.1	4.7	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1009	-	288	-	-
HCM Lane V/C Ratio	0.162	-	0.117	-	-
HCM Control Delay (s)	9.3	0	19.1	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0.6	-	0.4	-	-

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## HCM 2010 TWSC

### 5: Brayton Avenue & School Driveway North

Somerset Middle School  
School Peak Build 2 driveways

Intersection						
Int Delay, s/veh	5.6					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			Y	Y	
Traffic Vol, veh/h	32	83	11	261	209	20
Future Vol, veh/h	32	83	11	261	209	20
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	36	36	83	83	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	89	231	13	314	238	23
Major/Minor	Minor2	Major1		Major2		
Conflicting Flow All	591	252	262	0	-	0
Stage 1	251	-	-	-	-	-
Stage 2	340	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	470	787	1302	-	-	-
Stage 1	791	-	-	-	-	-
Stage 2	721	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	463	786	1301	-	-	-
Mov Cap-2 Maneuver	463	-	-	-	-	-
Stage 1	781	-	-	-	-	-
Stage 2	720	-	-	-	-	-
Approach	EB	NB		SB		
HCM Control Delay, s	15.5	0.3		0		
HCM LOS	C					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1301	-	658	-	-	
HCM Lane V/C Ratio	0.01	-	0.485	-	-	
HCM Control Delay (s)	7.8	0	15.5	-	-	
HCM Lane LOS	A	A	C	-	-	
HCM 95th %tile Q(veh)	0	-	2.7	-	-	

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## HCM 2010 TWSC 5: Brayton Avenue & School Driveway South

Somerset Middle School  
School Peak Build 2 driveways

Intersection						
Int Delay, s/veh	1.8					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	20	11	12	252	272	20
Future Vol, veh/h	20	11	12	252	272	20
Conflicting Peds, #/hr	0	1	1	0	0	1
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	36	36	83	83	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	56	31	14	304	309	23

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	654	323	333	0	-	0
Stage 1	322	-	-	-	-	-
Stage 2	332	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	431	718	1226	-	-	-
Stage 1	735	-	-	-	-	-
Stage 2	727	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	424	717	1225	-	-	-
Mov Cap-2 Maneuver	424	-	-	-	-	-
Stage 1	724	-	-	-	-	-
Stage 2	726	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.8	0.4	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1225	-	496	-	-
HCM Lane V/C Ratio	0.012	-	0.174	-	-
HCM Control Delay (s)	8	0	13.8	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0	-	0.6	-	-

## HCM 2010 TWSC

### 5: Brayton Avenue & School Driveway North

Somerset Middle School  
PM Peak Build 2 School Driveways

Intersection						
Int Delay, s/veh	1					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations	Y			Y	Y	
Traffic Vol, veh/h	49	0	0	392	224	29
Future Vol, veh/h	49	0	0	392	224	29
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	53	0	0	461	264	34
Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	742	281	298	0	-	0
Stage 1	281	-	-	-	-	-
Stage 2	461	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	383	758	1263	-	-	-
Stage 1	767	-	-	-	-	-
Stage 2	635	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	383	758	1263	-	-	-
Mov Cap-2 Maneuver	383	-	-	-	-	-
Stage 1	767	-	-	-	-	-
Stage 2	635	-	-	-	-	-
Approach	EB	NB	SB			
HCM Control Delay, s	15.9	0	0			
HCM LOS	C					
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR	
Capacity (veh/h)	1263	-	383	-	-	
HCM Lane V/C Ratio	-	-	0.139	-	-	
HCM Control Delay (s)	0	-	15.9	-	-	
HCM Lane LOS	A	-	C	-	-	
HCM 95th %tile Q(veh)	0	-	0.5	-	-	

## HCM 2010 TWSC 5: Brayton Avenue & School Driveway South

Somerset Middle School  
PM Peak Build 2 School Driveways

Intersection						
Int Delay, s/veh	1.4					
Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	58	64	392	224	0
Future Vol, veh/h	0	58	64	392	224	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	85	85	85	85
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	63	75	461	264	0

Major/Minor	Minor2	Major1	Major2			
Conflicting Flow All	875	264	264	0	-	0
Stage 1	264	-	-	-	-	-
Stage 2	611	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	320	775	1300	-	-	-
Stage 1	780	-	-	-	-	-
Stage 2	542	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	295	775	1300	-	-	-
Mov Cap-2 Maneuver	295	-	-	-	-	-
Stage 1	719	-	-	-	-	-
Stage 2	542	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	10.1	1.1	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1300	-	775	-	-
HCM Lane V/C Ratio	0.058	-	0.081	-	-
HCM Control Delay (s)	7.9	0	10.1	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.3	-	-





## Appendix G



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# Geotechnical Evaluation



PREPARED FOR: The Vertex Companies, Inc.

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**PRELIMINARY GEOTECHNICAL DESIGN BASIS  
REPORT**

**PROPOSED SOMERSET MIDDLE SCHOOL BUILDING  
1141 BRAYTON AVENUE  
SOMERSET, MASSACHUSETTS**

PREPARED BY:

PARE CORPORATION  
10 LINCOLN ROAD, SUITE 210  
FOXBORO, MASSACHUSETTS 02035

PARE PROJECT NUMBER 19118.00

SUBMITTED SEPTEMBER 2019



## Somerset Middle School New Building

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## 1.0 BACKGROUND/SITE LOCATION

This preliminary Geotechnical Design Basis Report presents the results of the Phase I geotechnical subsurface investigations and evaluations undertaken by Pare Corporation (Pare) at the site of the proposed new Somerset Middle School building adjacent to the existing school located off Brayton Avenue, Somerset, Massachusetts. The new building is anticipated to consist of multi-story structures with no below grade spaces. The design is subject to change pending results of the investigation as written herein. The project site is depicted on Figure 1-1: Locus Plan and Figure 1-2: Aerial Plan. This report has been prepared in accordance with our proposal and is subject to the geotechnical limitations presented in Appendix C.

### 1.1 Purpose and Scope

The large size of the site, current unknown location of the proposed construction, and known complexity of the subsurface conditions on the proposed site requires the completion of additional explorations which are beyond the scope identified herein. All parties also acknowledge and understand that the services performed to date are preliminary in nature and that additional explorations will be performed during the post-schematic design phase once the building footprint, proposed school layout, and proposed grading information is more clearly defined.

The purpose of this schematic study is to identify the existing subsurface conditions; evaluate potential implications the observed conditions may have upon the proposed building; assist in design; and provide preliminary geotechnical parameters and recommendations for use during the design of the foundations, building, and other site improvements associated with the proposed project. The scope of this evaluation included the following:

- Filing a Locate Request Form with Dig Safe.
- Reviewing available subsurface information.
- Advancing four (4) borings within or adjacent to the footprint of the proposed building. Two (2) borings were advanced into bedrock and the other two (2) borings were advanced until refusal on weathered bedrock.
- Installing an observation well.
- Sampling and performing Standard Penetration Testing (SPT).
- Performing mechanical grain size analysis on specific representative soil samples.
- Preparing a preliminary geotechnical report summarizing the exploration findings, data evaluations, geotechnical design recommendations, and construction recommendations.

*The scope of this evaluation did not include an evaluation of the site for the presence of contamination or other environmental concerns, as those tasks are outside of Pare's proposed scope of services.*

### 1.2 Surface Conditions

As shown on Figure 1-3: Subsurface Exploration Plan, the site is located west of Brayton Avenue, and east of the existing Somerset Middle School and parking lots. North of the site lies a wooded area with power lines running east to west, and to the south of the site lies the South Elementary School and a sports field. The site is currently covered by grassed areas, asphalt paving and concrete sidewalks. The grade in the area of the current Middle School is relatively flat. The area between



the current Middle School and Brayton Avenue slopes down irregularly at approximately 2H:1V towards Brayton Avenue. The existing site grades range from approximately El.148ft near Boring B19-5 to El.127ft<sup>1</sup> near Brayton Avenue. A sewer field is located on the proposed site north of boring B19-1 (see Figure 1-3). Somerset Middle School also has archived records of the original construction blueprints showing the extent and location of the sewer field.

### 1.3 USGS Surficial/Bedrock Geology

The United States Geological Survey (USGS) surficial geology map of the Fall River Quadrangle, Massachusetts indicates that the site is underlain by glacial till deposits. This layering consists of “Boulders, gravel, sand, silt, and clay; unconsolidated; poorly sorted and unstratified.”<sup>2</sup>

The bedrock below the surficial deposits is mapped as the Rhode Island Formation. In the area investigated, this deposit is subclassified as “Sandstone, graywacke, shale, and conglomerate; minor beds of meta-anthracite and fossil plants.”<sup>3</sup>

### 1.4 Proposed Grading

Pare has not been provided with specifics as to the proposed building grades.

The property appears to be located within the FEMA<sup>4</sup> Flood Hazard Zone “X” with an area determined to be outside the 0.2% annual chance flood plain.

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<sup>1</sup> Elevations are based on HEC-RAS LIDAR data.

<sup>2</sup> USGS Surficial Geologic Map of Fall River Quadrangle, Massachusetts, 2011.

<sup>3</sup> USGS Bedrock Geology Map of Massachusetts.

<sup>4</sup> FEMA Flood Insurance Rate Map Number 44009C0102J, Effective date September 8, 2017.



## 2.0 SUBSURFACE EXPLORATIONS

The Phase I subsurface investigation program was performed by New England Boring Contractors, Inc of Brockton, Massachusetts and observed by Pare personnel between August 6<sup>th</sup>, 2019 to August 7<sup>th</sup>, 2019. During this study, four (4) borings were advanced. The borings were performed using a CME 75 drill rig utilizing 4-inch casing with wash and drive techniques, as noted on the boring logs, with 5-foot-long NX-size rock cores being recovered from two (2) of the borings. A 20-foot deep observation well was installed in boring B19-1. Boring logs are included in Appendix A, and exploration locations are shown on Figure 1-3: Subsurface Exploration Location Plan.

Pare's field personnel observed the drilling conditions, visually identified the SPT soil samples during the advancement of the explorations and took groundwater measurements on the same day exploration was completed at a boring location. Groundwater readings during exploration are anticipated to be higher than typical values due to drilling techniques.

### 2.1 Previous exploration programs

Boring data presented on a plan dated March 24, 1964 prepared by Warren H. Ashley A.I.A within or adjacent to the proposed site was made available by the client. The information presented indicated that 17 borings were drilled, 16 of which ranged between 8 to 12 feet in depth. Generally, the strata encountered were 1 to 3 feet of topsoil underlain by fine to medium SAND with fine to coarse gravel fragments. The SAND layer was underlain by a coarser layer defined as being "Rock Fragments". The seventeenth boring was drilled to 26.5 feet. Between the depths of 8 feet and 26.5 feet, it was generally classified as rock fragments. The rock fragments and blow counts suggest a weathered rock layer may have been encountered within this depth interval.

### 2.2 Current exploration program

The subsurface investigation program, consisted of four (4) test borings (B19-1, B19-2, B19-3 and B19-5), was performed by New England Boring of Brockton, Massachusetts and observed by Pare personnel from August 6<sup>th</sup>, 2019 to August 7<sup>th</sup>, 2019. B19-4 was not performed. The bottom of the borings was determined to be as follows: 27.8 feet in B19-1, 9.2 feet in B19-2, 13.6 feet in B19-3, and 15.3 feet in B19-5

Split spoon samples were obtained in general accordance with ASTM D-1586 using an automatic hammer. The SPT provides an indication of the characteristics, relative density, and consistency of the deposits. The test consists of driving a 1-3/8 inch inside diameter standard split spoon sampler 24 inches with a 140-pound automatic hammer dropping from a height of 30 inches. The SPT value used in subsequent analysis is the number of blows (N) required to drive the sampler from 6 to 18 inches of penetration.

During the explorations, subsurface soils were visually classified utilizing the Burmister Classification System. This system describes soil composition based on the percentage of soil particle size present by weight in the sample with the major soil particle size listed first followed by other soil components described as "trace" indicating 0-10% by weight, "little" indicating 10-20% by weight, "some" indicating 20-35% by weight, or "and" indicating 35-50% by weight.





Rock coring was performed within borings B19-1 and B19-5. The rock coring was completed with an NX-sized double-barrel coring. The rock coring was completed in general conformance with ASTM D-2113. Pare personnel were on-site to observe coring, collect the samples, calculate core recovery, determine Rock Quality Designation (RQD), and describe the recovered rock. The amount of core recovery is the ratio of recovered rock over the length of the core run. RQD is the ratio of the length of recovered rock pieces greater than 4 inches (unbroken) and length of the core run.

### 2.3 Field Measurement and Methodology

The locations of the borings were georeferenced in the field using a handheld GPS unit with sub-foot horizontal accuracy. Data from the GPS unit was later corrected using Trimble software and the representative boring location are shown on Figure 1-3: Subsurface Exploration Location Plan.

### 2.4 Locations

Four (4) borings were performed in the general area of the proposed building. The borings (B19-1, B19-2, B19-3 and B19-5) were advanced to various depths at the locations shown in Figure 1-3. Of the performed borings: B19-1 was located in the approximate center of site, B19-2 was approximately located in the southeast area of the site, B19-3 was approximately located in the west area of the site, and B19-5 was approximately located in the southwest area of the site. B19-4 was not performed.



### 3.0 SUBSURFACE CONDITIONS

The material within the subsurface profile in the area of the proposed building generally consist of TOPSOIL overlying GLACIAL DEPOSITS, overlying TILL, overlying WEATHERED SANDSTONE.

#### 3.1 Soil Strata

The various soil strata reported on the boring logs are described below. It should be noted that the depths to, and thickness of the various soil and rock strata will vary between and away from the exploration locations. Similarly, the nature of the various deposits will also vary between and away from the exploration locations.

For additional information and detail regarding the various strata, please refer to the boring logs in Appendix A and Table 3-1: Subsurface Exploration Summary.

##### 3.1.1 Stratum 1 – TOPSOIL

TOPSOIL was encountered at all the explorations locations. TOPSOIL was identified in the upper portion of the 2-foot split spoon samples between the depth of 0 and 2 feet. It is assumed to be approximately 6 inches thick. TOPSOIL was generally described as brown to gray, fine SAND, with “trace” to “and” amounts of medium sand, “little” to “some” silt, “trace” to “little” coarse sand, “trace” fine to coarse gravel, and “trace” organics.

SPTs performed in Stratum 1 generally indicate a density of loose to medium dense.

##### 3.1.2 Stratum 2 – GLACIAL DEPOSITS

GLACIAL DEPOSITS were encountered within the footprint of the proposed building and site improvement areas and are generally described as brown to gray, fine SAND with “trace” to “and” amounts of medium sand, “little” to “and” amounts of SILT, “trace” to “some” of fine to coarse gravel, and “trace” to “some” amounts of coarse sand.

SPTs performed in Stratum 2 generally indicate a density of medium dense to very dense.

GLACIAL DEPOSITS were encountered within all borings with a thickness ranging from 3.5 feet to 7.5 feet.

##### 3.1.3 Stratum 3 – TILL

TILL was encountered underlying the GLACIAL DEPOSITS stratum at the site and is generally described as poorly sorted gray, fine to coarse GRAVEL, with “and” amounts of medium sand, “little” to “and” amounts of fine sand, “trace” to “and” amounts of coarse sand, and “trace” to “some” silt.

SPTs performed in this stratum indicate a density of dense to very dense.



The TILL was encountered in all borings with the thickness ranging from 2.0 feet to 7.0 feet.

### 3.1.4 Stratum 4 – WEATHERED SANDSTONE

WEATHERED SANDSTONE was encountered in all four (4) borings and is generally described as completely weathered sandstone recovered as gray, fine to coarse gravel or medium to coarse sand with “trace” to “little” amounts of fine sand, and “trace” to “some” amounts of silt.

SPTs performed in Stratum 4 generally indicate a density of dense to very dense.

### 3.1.5 Stratum 5 – SANDSTONE BEDROCK

SANDSTONE BEDROCK was encountered within B19-1 and B19-5, as determined by rock coring. Refusal in borings B19-2 and B19-3 was likely due to bedrock being encountered.

Based upon a visual inspection of the rock core sample obtained from B19-1 and B19-5, bedrock consists of weak to moderately strong, gray, fine grained SANDSTONE, laminated, highly weathered to slightly weathered. The rock core samples were characterized as “poor” using the Rock Quality Designation (RQD) value. A summary of rock core depth, length, and RQD is presented in Table 3-2.

<b>Soil Boring No.</b>	<b>Approximate Depth (ft)</b>	<b>Length (ft)</b>	<b>Recovery (%)</b>	<b>RQD (%)</b>
B19-1 C1	23.2-27.8	4.5	76.3	0
B19-5 C1	10.3-15.3	5.0	98.3	0



## Somerset Middle School New Building

## Subsurface Conditions

Boring ID	General Location	Approx. Ground Surface Elevation (ft) <sup>5</sup>	Approximate Depth (Elevation) to Top of Stratum (ft)					Depth of Exploration	Groundwater <sup>6</sup>
			Stratum 1 TOPSOIL	Stratum 2 GLACIAL DEPOSITS	Stratum 3 TILL	Stratum 4 WEATHERED SANDSTONE	Stratum 5 SANDSTONE BEDROCK		
B19-1	Center region of site	134.4	0.0 (134.4)	0.5 (133.9)	8.0 (126.4)	13.0 (121.4)	23.2 (111.2)	27.8 (106.6)	11.8 (122.6)
B19-2	Southwest region of site	128.3	0.0 (128.3)	0.5 (127.8)	4.0 (124.3)	7.0 (121.3)	N/E	9.2 (119.1)	2.6 (125.7)
B19-3	West region of site	146.6	0.0 (146.6)	0.5 (146.1)	4.0 (142.6)	13.0 (133.6)	N/E	13.6 (133.0)	2.3 (143.6)
B19-5	Southeast region of site	148.3	0.0 (148.3)	0.5 (147.8)	6.0 (142.3)	8.0 (140.3)	10.2 (138.1)	15.3 (133.0)	5.0 (143.3)

N/E: Not Encountered

### 3.2 Groundwater

Based on observations during the subsurface investigation program, groundwater varied by a significantly big range from approximately 2.0 feet (Elevation 146.3 feet) to 11.8 feet (Elevation 122.6 feet) below the existing ground surface. The measured groundwater reading was 11.8 feet below the existing ground surface in the observation well. It is important to note that as part of the boring activities, water was introduced to each borehole and may not have dissipated at the time that the initial or subsequent measurements were taken.

It should be noted that groundwater levels are known to fluctuate due to local and regional factors including, but not limited to, precipitation events, seasonal changes, and periods of wet or dry weather.

<sup>5</sup> Elevations are based LIDAR data from Hec-Ras software.

<sup>6</sup> Groundwater observed in borings B19-2, B19-3, and B19-5 were observed during drilling and may have a lower groundwater than observed.



## 4.0 LABORATORY TESTING

The laboratory testing program included mechanical grain size analyses performed upon samples from the strata encountered during the investigation. The results of the laboratory testing are summarized below. The data sheets are included in Appendix B.

### 4.1 Grain Size Analysis

Three grain size analyses were performed on materials recovered during the subsurface investigation with descriptions and results presented as follows:

<b>Test No.</b>	<b>Boring No.</b>	<b>Sample No.</b>	<b>Depth (Ft.)</b>	<b>Representative Soil Strata</b>	<b>% Gravel</b>	<b>% Sand</b>	<b>% Fines</b>
1	B19-3	S-3	4-6	GLACIAL DEPOSITS	20.3	43.2	36.4
2	B19-2	S-2	2-4	GLACIAL DEPOSITS	22.9	61.9	15.2
3	B19-1	S-5	8-10	TILL	46.3	50.1	3.6



## 5.0 IMPLICATIONS OF SUBSURFACE CONDITIONS

### 5.1 General

Based on the subsurface investigation program and observations made during the explorations, the following are the geotechnical issues identified that could potentially impact the development of the site as proposed:

- The TOPSOIL observed across the surface of the site, is not a suitable bearing stratum for footings or suitable for reuse as backfill material in the building or roadway areas and is recommended to be removed and replaced with suitable material as stated herein or be stock piled and reused as landscaping material.
- Asphalt, concrete, topsoil, and fill material observed across the surface of the site should be removed in their entirety as these materials are not suitable bearing material for footings or suitable for reuse as backfill materials.
- The GLACIAL DEPOSITS and TILL strata encountered in the borings contain “little” to “and” amounts of silt. While reuse of this material is permissible, this material, when saturated from groundwater or rainfall events, will be easily disturbed by construction equipment making traversing the site and compaction of this material difficult. Moisture conditioning may be required to keep the soil near the optimum water content.
- WEATHERED SANDSTONE was encountered within all borings during the subsurface exploration at this site. Excavations of WEATHERED SANDSTONE may be necessary for construction of foundations. Voids resulting from the removal of WEATHERED SANDSTONE will need to be properly backfilled and compacted in layers with suitable fill material.
- For each of the strata described above it should be noted that the thickness and extents are likely to vary across the site.
- Onsite materials do not appear suitable for reuse in their current state, nor will all required material gradations or quantities be present on-site. *Imported materials, screening of on-site materials, and/or blending of on-site material with imported material is anticipated for this project.*
- Groundwater was encountered at depths ranging from 2.0 to 11.8 feet below the existing site grade in the borings. Based upon these observations, groundwater could impact the foundation excavations. Dewatering and control of watering during excavation will likely be necessary during the preparation of the subgrade for foundations and utilities.



## 5.2 Seismic Design and Liquefaction Evaluations

### 5.2.1 Site Criteria

In accordance with the 2015 International Building Code and ASCE 7-10, and based on the boring information, the soil profile of the project site is characterized as Site Class Profile C, “Very Dense Soil and Soft Rock” ( $\bar{N} > 50^7$ ).

In accordance with the Massachusetts 780 CMR 9<sup>th</sup> Edition Table 1604.11 and using the 2015 International Building Code, the maximum considered earthquake spectral response acceleration at short periods,  $S_s$ , and at 1-second periods,  $S_1$ , are 0.178g and 0.060g, respectively, for Somerset, Massachusetts.

Correcting the accelerations for the observed site profile based upon the SPT N-Values, the following parameters are recommended in the use of determining the seismic design category for the structure:

- Adjusted maximum considered earthquake spectral response acceleration parameters
  - $S_{MS} = 0.183$  for site class “C”
  - $S_{M1} = 0.102$  for site class “C”
- For calculating the design spectral response accelerations utilize:
  - $S_{DS} = 0.122$  for site class “C”
  - $S_{D1} = 0.068$  for site class “C”
- Peak Ground Acceleration:
  - $PGA_M = 0.091$  g for site class “C”
- Seismic Design Category
  - For site class “C” – Category “B”

### 5.2.2 Liquefaction Evaluation

Liquefaction is the tendency for a soil type, particularly fine sands, to lose a significant amount of strength and behave similar to a liquid in the event of an earthquake, or sufficient vibrations. Liquefaction analyses generally relate SPT-N values, corrected for overburden, and measured groundwater levels to the liquefaction potential of the materials in question.

The liquefaction analyses completed during preparation of this report takes into account the soil and groundwater conditions encountered during the subsurface exploration program. It should be noted that fluctuations in groundwater levels can have a significant effect in the liquefaction potential of soils. If the groundwater is observed to change during the construction process or future explorations, Pare should be contacted as it may be necessary to re-analyze the soil for liquefaction potential.

*Based upon the observed relative densities, groundwater elevation, and material composition in accordance with the Massachusetts 780 CMR 9<sup>th</sup> edition Figure 1806.4c, it appears that the in-situ soils are NOT susceptible to liquefaction at this time.*

<sup>7</sup> “ $\bar{N}$ ” denotes the average Standard Penetration Test N-value for the first 100 feet of soil and rock.



## 6.0 CONCLUSIONS AND RECOMMENDATIONS

### 6.1 Foundations and Slabs

#### 6.1.1 Site Preparation

The areas of the proposed structures will need to be stripped, grubbed of asphalt, fill, vegetation, and topsoil. The material to be removed from the site may contain solid wastes and should be disposed of in a manner that is consistent with local and state regulations. Organic matter encountered should be removed from the building footprint as defined by a 1 horizontal to 1 vertical slope extending downward and outward from two feet outside the edges of the footings. Care shall be taken so as not to combine or mix organic material with the granular material to be reused as fill in other portions of the site.

Existing utilities on the site, including gas, electric, drainage, and drainage fields, and structures encountered during the progression of the work should be removed to the full extent and the resulting excavations backfilled with properly compacted "Granular Fill". Alternately pipes and structures can be filled with concrete. Care should be taken during the procedure to ensure complete filling of the pipes and/or structures.

Boulders encountered during the site preparation should be removed from the building area. Boulders located within the building area should be removed to a depth of at least 12 inches below the foundation elevation. Voids that result from boulder removal should be backfilled with compacted "Granular Fill".

In areas to be cut, the cut should extend to 12 inches below the bottom of the building slab and be backfilled with a 12-inch layer of compacted "Sand Gravel Fill". The interior and exterior footings should also be over excavated by 12 inches below founding level and replaced with 12 inches of compacted "Sand Gravel Fill". Should the exposed subgrade conform to the gradation for "Sand Gravel Fill" over-excavation is not required as the area can be proof-rolled with 10 passes of a vibratory drum roller.

Should the subgrade become disturbed during excavation and/or construction, the disturbed material should be over excavated and replaced with one foot of "Sand Gravel Fill" or 6 inches of "Crushed Stone" and a layer of filter fabric to stabilize the subgrade.

Prior to foundation preparation, the building site should be proof rolled to identify loose or soft pockets that may be present. Please see section 6.12 for reference to proof rolling.

#### 6.1.2 Shallow Foundations

A shallow foundation system composed of column (e.g., square) and wall (e.g., continuous) footings bearing on suitable bearing material (minimum 12-inch thick layer of compacted "Sand Gravel Fill"; 6-inches of crushed stone (in wet areas) wrapped in a layer of geotextile filter fabric placed on compacted structural "Granular Fill"; improved on-site GLACIAL DEPOSITS and TILL. Proof compacted GLACIAL DEPOSITS (Stratum 2) and TILL (Stratum 3) appear suitable for effectively transferring building loads to the ground. *A maximum net allowable soil bearing*





***pressure<sup>8</sup> of 4,000 pounds per square foot for exterior footings and interior footings is recommended in the design of footings bearing on these materials at the recommended frost depth.***

The above noted allowable bearing pressures were developed assuming a factor of safety of 3.0 against bearing capacity failure and with the following footing geometry:

*Continuous exterior wall footings:* A width of no less than 2 nor greater than 8 feet with a minimum embedment depth of 48 inches.

*Interior square footings:* A 2x2, 4x4, 6x6, or 8x8 foot square footing with a minimum embedment depth of 24 inches.

*Exterior square footings:* A 2x2, 4x4, 6x6, or 8x8 foot square footing with a minimum embedment depth of 48 inches.

A maximum total settlement of 1 inch and a maximum differential settlement of ½ inch between foundation elements was also assumed. Interior footings were also assumed to be at least 4 feet wide. In the event that lower settlement tolerances are required, Pare should be contacted to revise the bearing pressure, subgrade preparation, and/or foundation recommendations.

Footings should be proportioned to apply no more than the net allowable bearing pressure. For footings less than 2-feet wide or greater than 8-feet wide, the net allowable bearing pressure should be reassessed and in no case should a continuous footing be less than 24-inches wide or should a column footing be less than 24-inches wide.

A modulus of vertical subgrade reaction ( $K_v$ ) of 150 pounds per cubic inch is recommended for design of slab on grade placed over 12 inches of compacted "Sand Gravel Fill". The structural engineer will need to design the floor slab for anticipated live and dead loads in accordance with applicable building codes. Should the building, mechanical, electrical, or other equipment require independent foundations, additional foundations and/or modifications to the floor slab may be required depending upon the actual load requirements.

## **6.2 Ground Modifications**

The design of the ground modification program should be coordinated with the structural engineer in discussion with the geotechnical engineer and the site/civil engineer. Given our current understanding of the project, the material, depth to groundwater, and area to be improved Pare recommends a combination of Excavation and Replacement with Proof Compaction. The ground improvement program should be designed to provide a uniform bearing stratum meeting the bearing capacity presented in Section 6.1, in addition to reducing the risk of excessive total and differential settlements developing.

The following summarizes the ground improvement approach to provide suitable bearing for footings/foundations.

---

<sup>8</sup> Net allowable bearing pressure is the pressure in excess of the existing overburden pressure that can be safely carried at the footing depth, D.



1. Unsuitable in-situ soils: TOPSOIL (Stratum 1), deposits containing organic matter or roots greater than ¼ inch diameter, and fill deposits that may be present shall be over excavated to the top of the soil determined to be an acceptable bearing stratum, and the exposed subgrade proof compacted within the influence zone of the proposed foundation and slabs-on-grade. Subgrades should be proof compacted with a minimum 4-6 passes of a vibratory roller with a static weight of 10,000 pounds and a dynamic weight of 20,000 pounds. Caution should be used when compacting the subgrade, if wet, to avoid weaving and disturbance from vibrations. Any unsuitable, disturbed, or weaving areas should be removed.
2. The excavation shall then be backfilled with approved material, compacted in lifts, to the bearing elevation of the proposed foundation or slabs-on-grade. Site elevations shall be raised as required using approved material and compacted in lifts with a maximum loose lift thickness of 12 inches.
3. It may be possible to reuse on-site GLACIAL DEPOSITS and TILL material as “Sand Gravel Fill” after grain size analyses confirm suitability. *Blending with other aggregates to reach acceptable standards is anticipated. Importing of materials is anticipated.*
4. All fill shall be compacted under the observation of the geotechnical engineer to the recommended relative compaction as described in Table 6.4. Each lift of placed material shall be field density tested in accordance with project specifications.

***This approach, which is the recommended approach in areas of the proposed Building and Influence Zones, will address the potential for excessive differential settlement. The reuse of the GLACIAL DEPOSITS and TILL as backfill may be permissible with the completion of confirmatory grain size analyses, and environmental contamination testing. In the case of organic material being encountered, the reuse of any organic material encountered as fill material within the influence zone of the proposed building area should not be permitted.***

### 6.3 Settlement

Settlement of the proposed structures should be limited to 1-inch total settlement and 0.5-inch differential settlement. Differential settlement of foundation system with footings founded upon both natural soils and bedrock, may govern the bearing capacity and the reduced values should be used for design. Based upon the density and types of the observed soils, and recommended bearing capacities as identified in the section above, settlements in excess of the limits identified are not anticipated.

### 6.4 Lateral Earth Pressures and Retaining Wall Design

For the design of retaining walls with level backfill, recommended lateral earth pressure coefficients are indicated in Table 6-1. A moist unit weight of 125 pounds per cubic foot (pcf) and a minimum internal friction angle ( $\phi$ ) of 33° for imported free draining “Granular Fill” is recommended. A moist unit weight of 130 pounds per cubic foot (pcf) and a minimum internal friction angle ( $\phi$ ) of 35° for imported free draining “Sand Gravel Fill” is recommended. The lateral earth pressure coefficient should be increased where the ground surface slopes up behind the wall. The retaining walls should be designed to withstand surcharge loading which may be present over the life of the structure. Surcharge loading would include traffic loads, as well as loads from storage, fill or construction equipment which may be placed adjacent to the wall. The influence zone behind the wall can be defined by a one horizontal to one vertical line extending upward from the outside edge of the wall footing.



The magnitude of lateral earth pressure against retaining walls is dependent upon the type of backfill, method of fill placement, drainage provisions, and the amount of yielding the wall is permitted to undergo after the placement of the backfill. Pare recommends that all retaining walls be backfilled with a free draining “Granular Fill”, as defined herein.

The lateral earth pressure distribution against retaining walls should be computed using the appropriate coefficient of lateral earth pressure, K. Recommended values of K are presented in the table below. Friction factors are also presented for use in checking resistance to unbalanced forces on walls.

<b>TABLE 6-1: RECOMMENDED EARTH PRESSURE AND FRICTION COEFFICIENTS</b>			
<b>Material</b>	<b>At-Rest Coefficient (K<sub>o</sub>)</b>	<b>Active Coefficient (K<sub>a</sub>)</b>	<b>Passive Coefficient (K<sub>p</sub>)</b>
Compacted Granular Fill	0.45	0.29	3.39
Compacted Sand Gravel Fill	0.43	0.27	3.69
<b>FRICTION COEFFICIENTS</b>			
Concrete Poured on Imported Sand Gravel Fill / Rock			$\tan \delta = 0.45$
Precast Concrete on Imported Sand Gravel Fill / Rock			$\tan \delta = 0.30$

*In order to attain either the active or passive condition, displacement of the wall is necessary. To attain the active condition in a sand material, the horizontal movement required ranges from 0.001H to 0.004H depending on the density of the material. The horizontal movement required to attain the passive condition in a sand material ranges from 0.02H to 0.06H, where H is the wall height. For basement walls or other retaining walls with no allowable movement, the At-Rest Coefficient shall be used in calculating wall loads. Passive resistance should be ignored for soil depths of less than 5 feet or rock depths less than 2 feet.*

Traffic loads and other anticipated loadings that could occur behind the walls should be considered. In addition, the effect of adjacent footings on lateral walls should be accounted for during design.

### 6.5 Frost Depth Recommendations

In conformance with the International Building Code (2015), and the 9<sup>th</sup> Edition of the Massachusetts State Building Code, exterior footings founded over soils should be placed at a minimum depth of 48-inches below the finished grade in order to provide for frost protection. Preparation for slabs should consider the frost heave susceptibility of subgrade soils.

### 6.6 Drainage

Groundwater was encountered at the site at depths ranging from 2.0 to 11.8 feet below the existing ground surface. Also note that as part of the boring activities, water was introduced to the noted borings and may not have dissipated at the time that the measurement was taken. Considering that the building design is unknown at this time and the observed groundwater at the time of the



exploration, pending final floor elevations, a sub-drain or perimeter drain system should be considered for the proposed building inclusive of elevator pits, auditoriums, theaters as well as mechanical and classroom spaces.

Note that shallow foundations should be prepared in the dry. Roof drainage and surface water runoff should be directed away from the structures. As water levels are anticipated to fluctuate with the seasons and precipitation events, positive drainage is also recommended in order to carry water away from the building foundation.

### 6.7 Underground Utilities

Underground pipes and utilities should be placed on bedding in accordance with the manufacturer's specifications and recommendations to prevent damage to the utility from oversized particle during compaction. "Granular Fill" should be placed in lifts on the sides and above the utilities. The lift thickness should be sized appropriately for the compaction equipment used: vibratory plate compactor, 6-inch lift; vibratory drum roller, 12-inch lift.

Currently under the proposed site is a sewer field caution should be taken upon excavating this area. Please see Figure 1-3: Subsurface Exploration Plan for the approximate location.

### 6.8 Flexible and Rigid Pavement Recommendations

All asphalt, topsoil, subsoil, in-situ fill, and organic material should be stripped prior to filling. Subsoils and fills deemed suitable for improvements may be improved in the presence of a geotechnical engineer. The subgrade should be proof rolled with a minimum of 4-6 passes of a vibratory roller with a static weight of 10,000 pounds and a dynamic weight of 20,000 pounds. Caution should be used when compacting the subgrade, if wet, to avoid weaving and disturbance from vibrations.

Table 6-2 presents recommended pavement layer thickness based upon standard AASHTO design procedures for both "Standard Duty" and "Heavy Duty" pavement. "Standard Duty" pavement is applicable for up to 50,000 Equivalent Single 18-kip Axle Loads (ESAL's) while "Heavy Duty" pavement is applicable up to 350,000 EAL's. The recommended base and subbase courses for both "Standard Duty" and "Heavy Duty" areas are as listed below:

<b>Pavement Section</b>	<b>STD. DUTY</b>	<b>HEAVY DUTY</b>
Finish Course	1-1/2 inches	1-1/2-inches
Binder Course	1-1/2 inches	2-inches
Base Course	6-inches	8-1/2-inches
Subbase Course	8-inches	12-inches

Should the actual loading conditions be greater than those assumed, the pavement sections will need to be re-analyzed for the actual conditions. This may result in a thicker pavement section being required.



In areas where concrete and asphalt paving meet, it would be advantageous to provide a strip of free draining soil below the concrete and bituminous interface. The free draining strip should consist of a 24-inch layer of "Sand Gravel Fill" extending a minimum of 3 feet laterally below the concrete apron. This should control minor frost heaving that may occur if water enters the subgrade through this joint.

### 6.9 Construction Materials

Fill materials should be friable soil, free from trash, ice, snow, frozen soils, tree stumps, roots, and other organic matter and deleterious materials. Pare recommends the following soil gradations for imported fill, conforming to the Massachusetts Department of Transportation 1988 English Standard Specifications for Highways and Bridges including up to the supplemental specification from July 1, 2015 (State Standards).

- Gravel Borrow utilized as "Sand Gravel Fill" below structures and under pavement should conform to M1.03.0, Type B of the State Standards.
- All other Gravel Borrow material utilized as "Granular Fill" below structures and for material utilized in regrading areas, trench backfill, backfill against below-grade walls as "Granular Fill" should conform to M1.03.0 Type A of the State Standards.
- Crushed Stone Bedding Material should be imported material conforming to Item M2.01.4 of the State Standards.
- A maximum of 10% of recycled asphalt pavement (RAP) may be included in the pavement mixture or as specified within the State Standard Specifications.



Table 6-3: The Soil Gradations within are based upon the Massachusetts State Specifications and are shown for clarity.

<b>TABLE 6-3: SOIL GRADATIONS (Percent Passing the Designated Sieve Sizes)</b>					
<b>Sieve Size</b>	<b>Sand Gravel Fill</b>	<b>Granular Fill</b>	<b>1-1/2 inch Crushed Stone</b>	<b>3/4 inch Crushed Stone</b>	<b>Coarse Sand</b>
3-inch*	100	60-100	-	-	-
2-inch	-	-	100		
1-1/2-inch	-	-	95-100	-	-
1-inch	-	-	35-70	100	-
¾-inch	70-100	-	0-25	90-100	-
½-inch	50-85	50-85	-	10-50	100
⅜-inch	-	45-80	-	0-20	85-100
No. 4	40-75	40-75	-	0-5	20-50
No. 8	-	-	-	-	0-15
No. 10	30-60	-	-	-	-
No. 40	10-35	0-45	-	-	-
No. 100	5-20**	-	-	-	-
No. 200	0-8	0-10	<1	<1	-

\* The maximum recommended stone size is three inches where placed as base course below slabs and pavement; elsewhere, maximum stone size shall be 2/3 of the loose lift thickness.

\*\* The amount passing the No. 100 sieve should be between 40 and 70 percent of that amount passing the number 40 sieve.

\*\*\*Straight line interpretation shall be used between the sieve sizes.

## 6.10 Reuse of On-Site Soils

The reuse of on-site TOPSOIL is anticipated as loam borrow after blending with imported loams, or screening to produce the grain size within the project specifications.

From a geotechnical perspective, asphalt material stripped from the site and crushed to a maximum ¾-inch size and blended with clean sand and gravel may be reused as "Granular Fill" material below the pavement subbase. The material should be placed in lifts with a maximum thickness of 12-inches and be compacted to required densities by vibratory equipment. State regulatory requirements should be investigated, however, to determine if the material is environmentally acceptable for use on the site.

Based on the visual classifications and limited gradation analyses, partial reuse of the onsite GLACIAL DEPOSITS (Stratum 2) and TILL (Stratum 3) as backfill is anticipated as "Granular Fill". Reuse as "Granular Fill" and/or "Sand Gravel Fill" will require modification (e.g. blending and/or screening) to meet specified gradations. However, care should be taken to separate material not conforming to the requirements of fill material from reusable material.



***It should be noted that not all required soil gradations will be available on-site. Imported materials, screening of on-site materials, or blending/amending imported material with on-site material is anticipated for this project.***

All materials not reused onsite must be disposed of in accordance with local, state and federal requirements.

#### **6.11 Soils Prone to Disturbance**

***Silty or fine sandy soils, like those found on-site, are prone to disturbance when saturated from groundwater or rainfall events, are easily disturbed by construction equipment traversing the site, are difficult to compact, and are prone to frost heave during freeze-thaw cycles.*** If the construction is performed during the late fall, winter, or spring months, wet conditions and freeze thaw cycles should be expected to prevail. Soils that become saturated or allowed to freeze will require, thawing and/or draining, re-compaction, and retesting prior to placing additional fill material or structural components. Delays caused by wet/freezing soil conditions may be a factor that affects the construction schedule. Should the subgrade become disturbed, the disturbed material should be over-excavated and replaced with compacted “Granular Fill” as recommended in Section 6.8.

Soils with a silt content of greater than about 8% have the potential to heave when subjected to freezing conditions. The risk of heaving increases with increasing silt content, although soils with a silt content of less than about 15% silt are considered within the construction industry to be an acceptable risk. High silt content soils are not recommended for use in frost zones below structures, sidewalks, pavements, or within the influence zone of foundation walls due to their susceptibility to frost heave. Prior to reusing these materials, confirmatory sieve analyses for each type of on-site material proposed for reuse should be completed by the Contractor and submitted to the Engineer for approval.

#### **6.12 Compaction**

The approved subgrade to accept backfill, footings, slabs, and foundations, should be excavated with a flat bottom bucket to limit the amount of subgrade disturbance.

Lift thicknesses of placed material should be limited based on the capacity of compaction equipment and the means of compaction. Where compaction by hand tools is completed, lifts should not exceed 6 inches in thickness (loose lift thickness). Lifts compacted with mechanical equipment shall not exceed 12 inches thick (loose lift thickness) but will vary based on the size of the equipment used. Compaction of this material should be performed with adequately sized equipment to yield the recommended amount of relative compaction. In all cases, compaction shall be field verified in accordance with ASTM D1556 (sand cone test), ASTM D6938 (Density testing by Nuclear Methods), or other method approved by the Engineer.



The fill materials should be compacted to the recommended relative densities as outlined as follows:

TABLE 6-4: RECOMMENDED MINIMUM COMPACTION REQUIREMENTS	
Location	Percent of Maximum Dry Density <sup>1</sup>
Backfill below footings, within the building area and below slabs <sup>2</sup>	95
Backfill for foundation walls	95
Backfill within pavement base and sub base layers	95
Backfill below pavement subbase layers	95
Around and above utilities within the building area	95
Around and above utilities in paved areas	92
Backfill behind retaining walls	95 <sup>3</sup>
Backfill within landscaped areas	85

<sup>1</sup> Maximum dry density as determined by the Modified Proctor test (ASTM D 1557)

<sup>2</sup> Building area is described as an area extending downward and outward from the outside edge of the footing at a 1H:1V slope.

<sup>3</sup> During compaction of fill placed behind retaining walls, care shall be taken so as to maintain uniform elevation along both sides within the embedded areas, and to not overstress the wall by applying excessive compactive energy at the top of the wall.

A schematic drawing presenting influence zones beneath and near interior and exterior footings, recommended base and sub-base materials, and recommended fill materials for varying areas of the site development is included as Figure 6-1.

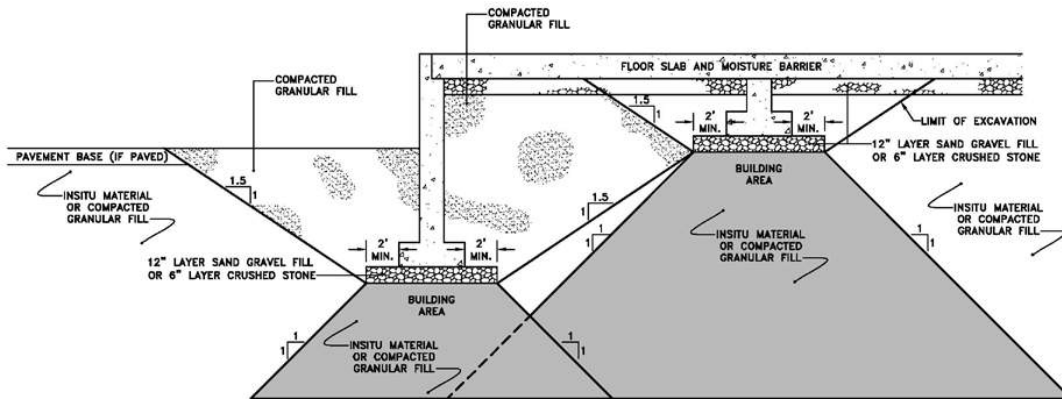


Figure 6-1: Typical Profile Below Footings





## 7.0 CONSTRUCTION CONSIDERATIONS

This section presents construction considerations and recommendations including excavation, backfilling, utility installation, dewatering, lateral earth support, protection of adjacent structures, and construction monitoring.

### 7.1 Excavation

#### 7.1.1 Site preparation

After rough grades have been established, but before placement of compacted “Granular Fill”, exposed surfaces should be visually inspected and probed. Frozen, wet, or loose soils and other undesirable materials should be removed. The exposed subgrade should be further tested by proof rolling with a minimum 10,000-pound static weight roller to identify loose or soft pockets that may be present.

The area of the proposed structures will need to be stripped of asphalt and fill, and grubbed of all vegetation and topsoil. Construction debris from demolished structures and roadways should be removed and properly disposed of in accordance with current regulations. Should the material contain solid wastes, such material should be segregated and disposed of in a manner consistent with local and state regulations.

Existing utilities on the site, including gas, electric, drainage, sewer pipes, and structures encountered during the progression of the work should be removed to the full extent and the resulting excavations backfilled with compacted “Granular Fill”. Alternately the pipes and structures can be filled with grout through tremie grouting procedures. Care should be taken during the procedure to ensure complete filling and venting of the pipes and/or structures.

Should the subgrade become disturbed during excavation and/or construction, all disturbed material should be over-excavated to firm or native soil and replaced with a minimum of one foot of compacted “Granular Fill” or 6-inches of “Crushed Stone” wrapped in a Geotextile Fabric.

#### 7.1.2 Parking and Paved Roadway Surfaces:

All topsoil, organic soil, existing asphalt paving, and fill should be stripped prior to filling. The subgrade should be proof rolled with a minimum 4-6 passes of a vibratory roller with a static weight of 10,000 pounds and a dynamic weight of 20,000 pounds. Soft areas should be removed and replaced with “Granular Fill”. Caution should be used when compacting the subgrade, if wet, to avoid weaving and disturbance from vibrations.

### 7.2 Backfilling

#### 7.2.1 Granular Fill

Pare recommends that footings, foundation walls, bases and subbase course for bituminous pavement, and areas requiring fill below the floor slab be backfilled to within 12 inches of the footings and slabs with compacted “Granular Fill”. Compacted “Granular Fill” should be free



draining friable soil free from trash, ice, snow, tree stumps, roots, other organic matter, and deleterious materials.

In general, compaction should be accomplished by placing fill in 8 to 12 inch loose horizontal lifts and mechanically compacting each lift to the specified dry density. Thinner lifts may be required in certain instances depending on the type of mechanical compaction equipment utilized. Recommended minimum compaction requirements are described in Section 6.11.

### **7.2.2 Sand Gravel Fill**

“Sand Gravel Fill” should be placed a minimum of 12 inches below footings, slabs and as pavement base course layers. This material should be placed in 6 to 12 inch loose horizontal lifts and mechanically compacted to the specified dry density. In areas where wet conditions are encountered, “Crushed Stone” wrapped in a layer of geotextile filter fabric could be used under footings instead of the “Sand Gravel Fill”. The “Crushed Stone” should be proof compacted with 1 pass in each direction with a vibratory compactor.

### **7.2.3 Crushed Stone**

If “Crushed Stone” is used for a subbase course (concrete pavement only) or base course, placement and compaction requirements are similar to those for “Granular Fill”, 95% of the maximum dry density. This material should conform to Item M2.01.4 of the State Standards.

### **7.2.4 Excavation Backfill**

When backfilling against excavated slopes or trench walls the Contractor shall take care to bench the lift into the excavated slope wall. Compaction equipment should be operated in such a manner to achieve adequate bonding and compaction of the placed lift and existing excavation wall.

## **7.3 Utility Installation**

Excavations for installation of underground utilities should be made to comply with all OSHA, federal, state, and local regulations. At a minimum, excavations should be wide enough to accommodate the utility to be installed with clearance on each side of the utility to provide space for operating compaction equipment for backfilling of the utility in lifts without damaging the utility. The base of the excavation and bedding layer should be formed to properly support all components of the utility, including pipe bells, and manholes to prevent damage during installation. During backfilling operations, care should be taken to provide properly compacted fill along the length of the utility being installed. All fill material (cobbles and boulders within the native deposits) larger than 3 inches should be removed from the fill within 12 inches of the utility to prevent damage to the utility during compaction.

## **7.4 Dewatering**

Temporary dewatering may be required to control groundwater and/or water resulting from rain, surface runoff, which may be encountered within the excavations. During the exploration groundwater was observed as low at 11.8 feet in the observation well and as high as 2 to 3 feet in



borings B19-2 and B19-5. As mentioned, due to drilling methods, the recorded groundwater readings are anticipated to be higher than natural groundwater levels. The contractor should provide for proper drainage of surface water away from excavation. All excavation should be conducted in the dry.

It should be noted that groundwater levels may fluctuate over time due to variations in rainfall, the rock profile in the work area, and other factors different from those prevailing at the time the explorations were performed.

### 7.5 Lateral Earth Support

Excavation support is solely the Contractor's responsibility. Several excavations are expected within the footprint of the proposed structure for installation of footings, utilities, and below-grade walls. Temporary support systems may be required at some locations to retain the surrounding soil and maintain a near-vertical excavation face where it will be necessary to protect the adjacent building walls, pavement, or underground utilities. Groundwater was observed at the site, therefore this should be considered in the design of excavation support systems. Design of cantilever and braced support systems is beyond the scope of this report and should be performed for the Contractor through the services of a professional engineer licensed in the state of Massachusetts. Excavation support for all excavations shall follow OSHA and other applicable State and Local standards.

In areas where an open cut is possible without a temporary support system, the final side slopes should conform to Local, State, and Federal safety requirements.

### 7.6 Protection of Adjacent Structures

Pare recommends that prior to the start of construction, a video and/or photo pre-construction survey is performed at buildings which are located near the work area which may be affected. This should also include adjacent utilities that may be affected by the construction. This survey would record "before construction conditions" of existing structures and utilities that are expected to remain through construction. A post-construction survey should also be performed to compare conditions before and after construction. These surveys are invaluable in resolving potential project claim disputes.

Pare recommends that crack gauges be installed to monitor movement of existing cracks and on cracks that develop in new or existing concrete foundation walls.

### 7.7 Construction Monitoring

*The site preparation, excavation and backfill, compaction, and foundation installations should be observed by our geotechnical field engineer(s) under the direction of one of our registered professional engineers experienced in geotechnical engineering. While onsite, our engineer(s) will provide verification of bearing layers, and assistance in general interpretation of the geotechnical requirements during construction and could provide field density testing if requested. This would provide an accurate record of construction, alert the designer to changed conditions, and make useful data available for future construction. We have found that having an experienced engineer present during earthwork operation provides for a higher quality construction and enables efficiencies that help to maintain schedules.*



Foundation excavations should be observed to confirm that all loose, soft, and undesirable material (i.e. organic matter, pavement, and other deleterious materials) is removed and that the foundations will bear on a satisfactory material. Excavation subgrade observations should include hand auger borings or hand probing.

As mentioned, compaction criteria for the various imported materials should be developed and included in the specifications. Field density testing should be performed using a nuclear density gauge to confirm that adequate compaction is being achieved. During construction, representative samples of all materials to be used as backfill should also be tested for conformance with the specified material properties. As required by the International Building Code (IBC 2015) Geotechnical Special Inspections should be completed during the construction process.



**REFERENCES**

1. MASS. “Massachusetts Amendments to the International Building Code 2015”, 780 CMR 9th Edition, October 2017.
2. FEMA Map Number 44009C0102J, Effective Date September 8, 2017.
3. IBC 2012. International Code Council. “*International Building Code 2012*”, 2012.
4. AASHTO, “*AASHTO Guide for Design of Pavement Structures*”, 1993.
5. NAVY 1986. Naval Facilities Engineering Command. “*Foundation and Earth Structures, Design Manual 7.1 and 7.2*”. 1982. Revalidated by change 9/1/1986.
6. DAS. “*Principles of Foundation Engineering, 4<sup>th</sup> Edition*”, 1985.
7. DAS. “*Principles of Foundation Engineering, 5<sup>th</sup> Edition*”, 2004.
8. Bedrock Geologic Map of Massachusetts, Zen, E-an, Goldsmith, Richard, Ratcliffe, N.M., Robinson, Peter, Stanley, R.S., Hatch, N.L., Shride, A.F., Weed, E.G.A., and Wones, D.R., 1983.
9. LAMB and WHITMAN 1969. “*Soil Mechanics*”, 1969.
10. Foundation Design Principles and Practices, Coduto, Donald P., Second Edition.
11. USGS and The Commonwealth of Massachusetts Dept. of Public Works, “*Fall River Quadrangle, Massachusetts – Rhode Island*”, 1960.



## **FIGURES**



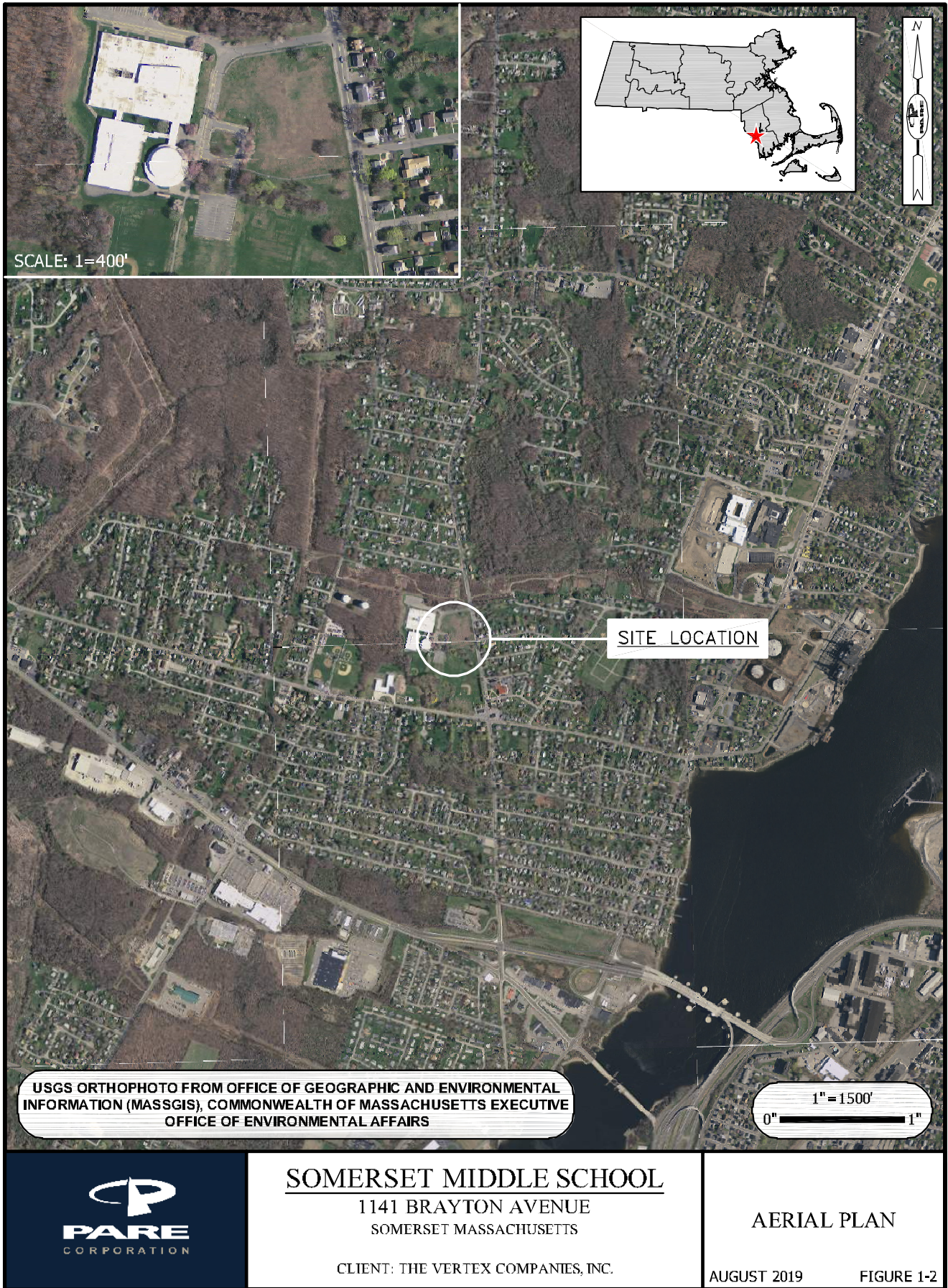
USGS TOPOGRAPHIC MAP FROM OFFICE OF GEOGRAPHIC AND ENVIRONMENTAL INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS

1" = 2500'  
0" ————— 1"



**SOMERSET MIDDLE SCHOOL**  
 1141 BRAYTON AVENUE  
 SOMERSET MASSACHUSETTS  
 CLIENT: THE VERTEX COMPANIES, INC.

**LOCUS PLAN**  
 AUGUST 2019      FIGURE 1-1



**SOMERSET MIDDLE SCHOOL**

1141 BRAYTON AVENUE  
SOMERSET MASSACHUSETTS

CLIENT: THE VERTEX COMPANIES, INC.

**AERIAL PLAN**

AUGUST 2019

FIGURE 1-2





SCALE ADJUSTMENT GUIDE

0' 10' 20'

SHEET IS ONE INCH ON CENTER - STAMPING

**SOMERSET MIDDLE SCHOOL**  
 1141 BRAYTON AVENUE  
 SOMERSET MASSACHUSETTS  
 CLIENT: THE VERTEX COMPANIES, INC.

REVISIONS:	

PROJECT NO: 1911B.00  
 DATE: AUGUST 2019  
 SCALE: AS NOTED  
 DESIGNED BY: JPN  
 CHECKED BY: SJM  
 DRAWN BY: LMC  
 APPROVED BY: JMB

**SUBSURFACE EXPLORATION PLAN**

FIGURE NO:  
1-3



**SUBSURFACE EXPLORATION PLAN**

SCALE: 1"=60'±

**NOTE:**

USGS ORTHOPHOTO FROM OFFICE OF GEOGRAPHIC AND ENVIRONMENTAL INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS

**LEGEND**

B19-1 BORINGS COMPLETED BY NEW ENGLAND BORING COMPANY ON 8-6-19 TO 8-7-19. BORINGS WERE OBSERVED BY PARE CORPORATION PERSONNEL.

X:\WORK\19\_jobs\1911B.00\_Verifex\_Somerset\_MA\Draws\FIG\_1-3\_SUBSURFACE\_EXPLORATION\_PLAN.dwg



## **APPENDIX A Boring Logs**



Pare Corporation  
10 Lincoln Road, Suite 210  
Foxboro, MA 02035  
T: 508-543-1755  
F: 508-543-1881

**BORING NUMBER B19-1**  
PAGE 1 OF 1

**CLIENT** The Vertex Companies, Inc. **PROJECT NAME** Somerset Middle School

**PROJECT NUMBER** 19118.00 **PROJECT LOCATION** Somerset, MA

**DATE STARTED** 8/6/19 **COMPLETED** 8/7/19 **GROUND ELEVATION** 134.4 ft NAVD88 **HOLE SIZE** 3 7/8 in.

**DRILLING CONTRACTOR** New England Boring Contractors, Inc. **GROUND WATER LEVELS:**

**DRILLING METHOD** CME 75 - wash and drive/NX-coring **▽ AT TIME OF DRILLING** 5.60 ft / Elev 128.80 ft

**LOGGED BY** JPN **CHECKED BY** RKM **▼ AT END OF DRILLING** 11.80 ft / Elev 122.60 ft

**BORING LOCATION** SEE EXPLORATION LOCATION PLAN

PARE BORING LOG - GINT STD US LAB.GDT - 8/21/19 12:51 - Y:\JOBS\19 JOBS\19118.00 VERTEX SOMERSET MS GEOTECH SOMERSET\_MA\BORING LOGS\19118.00 BORING LOGS.GPJ

DEPTH (ft)	CASING (bl/ft)	SAMPLE TYPE NUMBER	RECOVERY/PEN. (in)	DEPTH (FT)	BLOW COUNTS/6"	MIN/FT	GRAPHIC LOG	SAMPLE DESCRIPTION	STRATUM DESCRIPTION
0									
31		S-1	14 / 24	0 - 2	5-7-9-12 (16)			1A: Moist, medium dense, brown, fine SAND, some silt, trace organic, trace medium to coarse sand, trace fine to coarse gravel.	6" TOPSOIL
49						1B: Moist, medium dense, gray, fine SAND, some fine to coarse gravel, little silt, little medium to coarse sand.			
44		S-2	14 / 24	2 - 4	8-6-10-21 (16)			Moist, medium dense, brown, fine SAND, little silt, little fine to coarse gravel, trace medium to coarse sand.	GLACIAL DEPOSITS
90						Wet, dense, dark brown to gray, fine to medium SAND, little silt, trace coarse sand, trace fine to coarse gravel.			
5	5/5	S-3	12 / 24	4 - 6	17-23-19-24 (42)				
70							Wet, very dense, dark brown to gray, fine to medium SAND, little silt, trace fine to coarse gravel, trace coarse sand.		
93		S-4	20 / 24	6 - 8	25-32-35-34 (67)			GLACIAL TILL	
130									
48		S-5	17 / 24	8 - 10	29-34-58-97 (92)			WEATHERED SANDSTONE	
10	55								
66									
90									
80									
30		S-6	18 / 24	13 - 15	32-47-58-97 (105)			SANDSTONE BEDROCK	
15	44								
70									
10									
213									
52		S-7	3 / 3	18.2 - 18.5	120/3"			SANDSTONE BEDROCK	
20	67								
90									
87									
155									
25		C-1	42 / 55	23.2 - 27.8		10.5 7 8.5 9.5 7.5		SANDSTONE BEDROCK	
7.5									

Bottom of borehole at 27.8 feet.

GRANULAR SOILS		COHESIVE SOILS		REMARKS:	BURMISTER CLASSIFICATION
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY		
0 - 4	V. LOOSE	<2	V. SOFT	1.0'-8' - auto hammer was used to drive casing. 2.8'-13' - 140 lb. safety hammer was used to drive casing. 3.13'+ - 300 lb. safety hammer was used to drive casing. 4. A monitoring well was installed to 20, with the screened length at 20 to 15 feet. The well was backfilled with 19.3 feet of sand, 6 feet bentonite seal, and 2 feet of cement.	TRACE 0 - 10% LITTLE 10 - 20% SOME 20 - 35% AND 35 - 50% PERCENT BY WEIGHT
4 - 10	LOOSE	2 - 4	SOFT		
10 - 30	M. DENSE	4 - 8	M. STIFF		
30 - 50	DENSE	8 - 15	STIFF		
>50	V. DENSE	15 - 30	V. STIFF		
		>30	HARD		

NOTES: 1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.  
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THE BORING LOGS. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

**PARE CORPORATION**  
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 F: 508-543-1881

**BORING NUMBER B19-2**  
 PAGE 1 OF 1

**CLIENT** The Vertex Companies, Inc. **PROJECT NAME** Somerset Middle School

**PROJECT NUMBER** 19118.00 **PROJECT LOCATION** Somerset, MA

**DATE STARTED** 8/6/19 **COMPLETED** 8/7/19 **GROUND ELEVATION** 128.3 ft NAVD88 **HOLE SIZE** 3 7/8 in.

**DRILLING CONTRACTOR** New England Boring Contractors, Inc. **GROUND WATER LEVELS:**

**DRILLING METHOD** CME 75 - wash and drive **AT TIME OF DRILLING** 2.60 ft / Elev 125.70 ft

**LOGGED BY** JPN **CHECKED BY** RKM **AT END OF DRILLING** ---

**BORING LOCATION** SEE EXPLORATION LOCATION PLAN

PARE BORING LOG - GINT STD US LAB.GDT - 8/21/19 12:51 - Y:\JOBS\19 JOBS\19118.00 VERTEX SOMERSET MS GEOTECH SOMERSET MA\BORING LOGS\19118.00 BORING LOGS.GPJ

DEPTH (ft)	CASING (bl/ft)	SAMPLE TYPE NUMBER	RECOVERY/PEN. (in)	DEPTH (FT)	BLOW COUNTS/6"	MIN/FT	GRAPHIC LOG	SAMPLE DESCRIPTION	STRATUM DESCRIPTION
0									
6	6	S-1	18 / 24	0 - 2	3-3.4-8 (7)		[Symbol]	Moist, loose, brown, fine SAND, little silt, little medium to coarse sand, trace fine to coarse gravel, trace organic.	6" TOPSOIL
30		S-2	20 / 24	2 - 4	6-17-20-23 (37)		[Symbol]	Moist, dense, brown to gray, fine SAND, some medium to coarse sand, some fine to coarse gravel, little silt.	GLACIAL DEPOSITS
72									
132									
5	80	S-3	18 / 24	4 - 6	22-24-26-24 (50)		[Symbol]	Wet, dense, gray, fine to coarse SAND, little silt, little fine to coarse gravel.	GLACIAL TILL
98		S-4	6 / 6	6 - 6.5	114		[Symbol]	Wet, very dense, gray, fine to coarse SAND, little silt, little fine to coarse gravel.	
108		S-5	1 / 1	7 - 7.1	100/1"		[Symbol]	Completely weathered SANDSTONE recovered as very dense, fine to coarse GRAVEL, little medium to coarse sand, little silt, trace fine sand.	WEATHERED SANDSTONE
150		S-6	3 / 3	9 - 9.2	100/3"		[Symbol]	Completely weathered SANDSTONE recovered as wet, gray, very dense, fine to coarse GRAVEL, little silt, trace fine to coarse sand.	
10								Bottom of borehole at 9.2 feet.	
15									
20									
25									
30									

GRANULAR SOILS		COHESIVE SOILS		REMARKS:	BURMISTER CLASSIFICATION	
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY			
0 - 4	V. LOOSE	<2	V. SOFT	1. Mottling observed at 2-4 feet. 2. Gray sandstone fragments were observed in the drilling wash at 6.0-7.0 feet and 7.2-9.0 feet. 3. Casing refusal at 8'.	TRACE	0 - 10%
4 - 10	LOOSE	2 - 4	SOFT		LITTLE	10 - 20%
10 - 30	M. DENSE	4 - 8	M. STIFF		SOME	20 - 35%
30 - 50	DENSE	8 - 15	STIFF		AND	35 - 50%
>50	V. DENSE	15 - 30	V. STIFF			
		>30	HARD			

**NOTES:** 1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.  
 2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THE BORING LOGS. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.





**BORING NUMBER B19-5**  
PAGE 1 OF 1

**CLIENT** The Vertex Companies, Inc. **PROJECT NAME** Somerset Middle School

**PROJECT NUMBER** 19118.00 **PROJECT LOCATION** Somerset, MA

**DATE STARTED** 8/7/19 **COMPLETED** 8/7/19 **GROUND ELEVATION** 148.3 ft NAVD88 **HOLE SIZE** 3 7/8 in.

**DRILLING CONTRACTOR** New England Boring Contractors, Inc. **GROUND WATER LEVELS:**

**DRILLING METHOD** CME 75 - wash and drive/NX-coring  **AT TIME OF DRILLING** 2.00 ft / Elev 146.30 ft

**LOGGED BY** JPN **CHECKED BY** RKM **AT END OF DRILLING** ---

**BORING LOCATION** SEE EXPLORATION LOCATION PLAN

PARE BORING LOG - GINT STD US LAB.GDT - 8/21/19 12:51 - Y:\JOBS\19 JOBS\19118.00 VERTEX SOMERSET MS GEOTECH SOMERSET MA\BORING LOGS\19118.00 BORING LOGS.GPJ

DEPTH (ft)	CASING (bl/ft)	SAMPLE TYPE NUMBER	RECOVERY/IPEN. (in)	DEPTH (FT)	BLOW COUNTS/6"	MIN/FT	GRAPHIC LOG	SAMPLE DESCRIPTION	STRATUM DESCRIPTION
0									
	7	S-1	15 / 24	0 - 2	2-4-7-10 (11)		[Dotted pattern]	1A: 6" Dry, medium dense, brown, fine to medium SAND, little silt, trace organics.	6" TOPSOIL
	42							1B: 14" Dry, medium dense, gray, fine SAND, little silt, fine to coarse gravel, trace coarse sand.	
		S-2	20 / 24	2 - 4	11-15-18-23 (33)		[Dotted pattern]	Dry, dense, gray, fine SAND, little fine to coarse gravel, little silt, trace medium to coarse sand.	GLACIAL DEPOSITS
	133								
5	1	S-3	11 / 24	4 - 6	25-56-65-39 (121)		[Dotted pattern]	Wet, very dense, gray, fine to medium SAND, little silt, trace fine gravel.	GLACIAL TILL
	78								
		S-4	15 / 24	6 - 8	34-30-23-23 (53)		[Dotted pattern]	Wet, very dense, gray, fine to coarse GRAVEL, little fine to coarse sand, little silt.	WEATHERED SANDSTONE
	130								
		S-5	17 / 24	8 - 10	20-19-24-127 (43)		[Dotted pattern]	Completely weathered SANDSTONE recovered as wet, gray, dense, medium to coarse SAND, some fine to coarse gravel.	SANDSTONE BEDROCK
10	201								
		C-1	59 / 60	10.3 - 15.3		13 13 7 8 8	[Dotted pattern]	Moderately strong, gray, fine SANDSTONE, laminated (1-5 mm±), slightly weathered. RQD = 0%	

Bottom of borehole at 15.3 feet.

GRANULAR SOILS		COHESIVE SOILS		REMARKS:	BURMISTER CLASSIFICATION
BLOWS/FT	DENSITY	BLOWS/FT	DENSITY		
0 - 4	V. LOOSE	<2	V. SOFT	1. Casing advanced using 300lb safety hammer. 2. Casing refusal at 10.3'.	TRACE 0 - 10% LITTLE 10 - 20% SOME 20 - 35% AND 35 - 50% PERCENT BY WEIGHT
4 - 10	LOOSE	2 - 4	SOFT		
10 - 30	M. DENSE	4 - 8	M. STIFF		
30 - 50	DENSE	8 - 15	STIFF		
>50	V. DENSE	15 - 30	V. STIFF		
		>30	HARD		

**NOTES:** 1) THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.  
2) WATER LEVEL READINGS HAVE BEEN MADE IN THE DRILL HOLES AT TIMES AND UNDER CONDITIONS STATED ON THE BORING LOGS. FLUCTUATIONS IN THE LEVEL OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

## **APPENDIX B**

### **Laboratory Testing Data**





## SIEVE ANALYSIS

SOIL SAMPLEWATER CONTENT

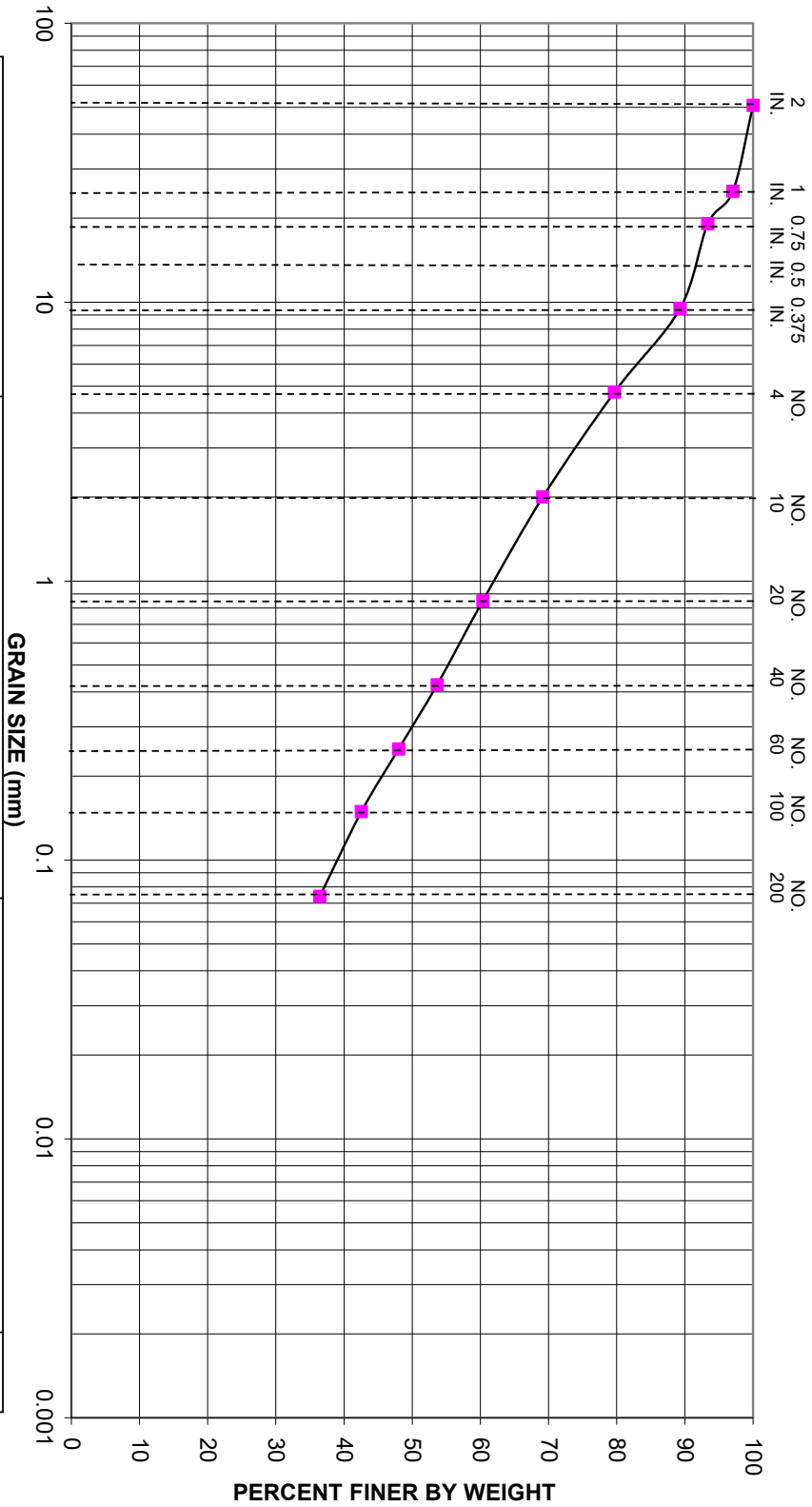
Location:	<u>Somerset Middle School, MA</u>	Container No.	<u>                    </u>	File No.	<u>19118.00</u>
Boring No.:	<u>B19-3</u>	Wt. Container (g)	<u>189.5</u>	Test No.	<u>1</u>
Depth:	<u>4.0 ft-6.0 ft</u>	Wt. Container, Wet Soil (g)	<u>882.3</u>	Date	<u>8/12/2019</u>
Sample No.:	<u>S-3</u>	Wt. Container, Dry Soil (g)	<u>780.7</u>	Tested By:	<u>JPN</u>
		Wt. Water (g)	<u>101.6</u>	Checked By	<u>RKM</u>
Specific Gravity, Gs:	<u>                    </u>	Wt. Dry Soil (g)	<u>591.2</u>	Dry Sieve	<u>                    </u>
		Water Content (%)	<u>17.19%</u>	Wash Sieve	<u>                    </u>
		Wt. Con, Soil Before Wash (g)	<u>780.7</u>	Combined	<u>X</u>
		Wt. Con, Washed Dry Soil (g)	<u>598.8</u>		
		Wt. Washed Dry Soil (g)	<u>409.3</u>		

TOTAL SAMPLE

U.S. Standard Sieve No.	Sieve Opening (mm)	Sieve Wt. (g)	Sieve + Soil Wt. (g)	Accumulative Wt. of Soil Retained (g)	Accumulative Percent Retained	Total Sample Percent Finer By Wt.
2"	50.8	545.2	545.2	0.0	0.0	100.0
1"	25	553.1	561.1	8.0	2.9	97.1
0.75"	19.1	531.8	563.0	39.2	6.6	93.4
0.375"	9.5	536.6	560.6	63.2	10.7	89.3
4	4.76	498.1	555.0	120.1	20.3	79.7
10	2	481.0	543.2	182.3	30.8	69.2
20	0.85	433.5	485.5	234.3	39.6	60.4
40	0.425	377.7	417.3	273.9	46.3	53.7
60	0.250	348.5	381.9	307.3	52.0	48.0
100	0.149	330.8	363.1	339.6	57.5	42.5
200	0.074	340.5	376.6	375.7	63.6	36.4
Pan		370.7	404.2	409.2	100.0	0.0
Split Sample Wt (Washed)				181.9		
Total Sample Weight				591.1		

Loss Check: 0.017%

U.S. STANDARD SIEVE SIZE



TEST NO. 1	GRAVEL				SAND			SILT		CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE					
MATERIAL SOURCE										
B19-3 (S-3) Depth: 4 feet to 6 feet "SAND and SILT"										
REMARKS										
Burnister - Fine to coarse SAND AND SILT, some fine to coarse gravel. Unified Soil Classification System - (SM) Silty SAND with gravel										
TESTED BY: JPN DATE: 08/12/2019 CHECK BY: RKM DATE: 8/12/2019										





## SIEVE ANALYSIS

SOIL SAMPLEWATER CONTENT

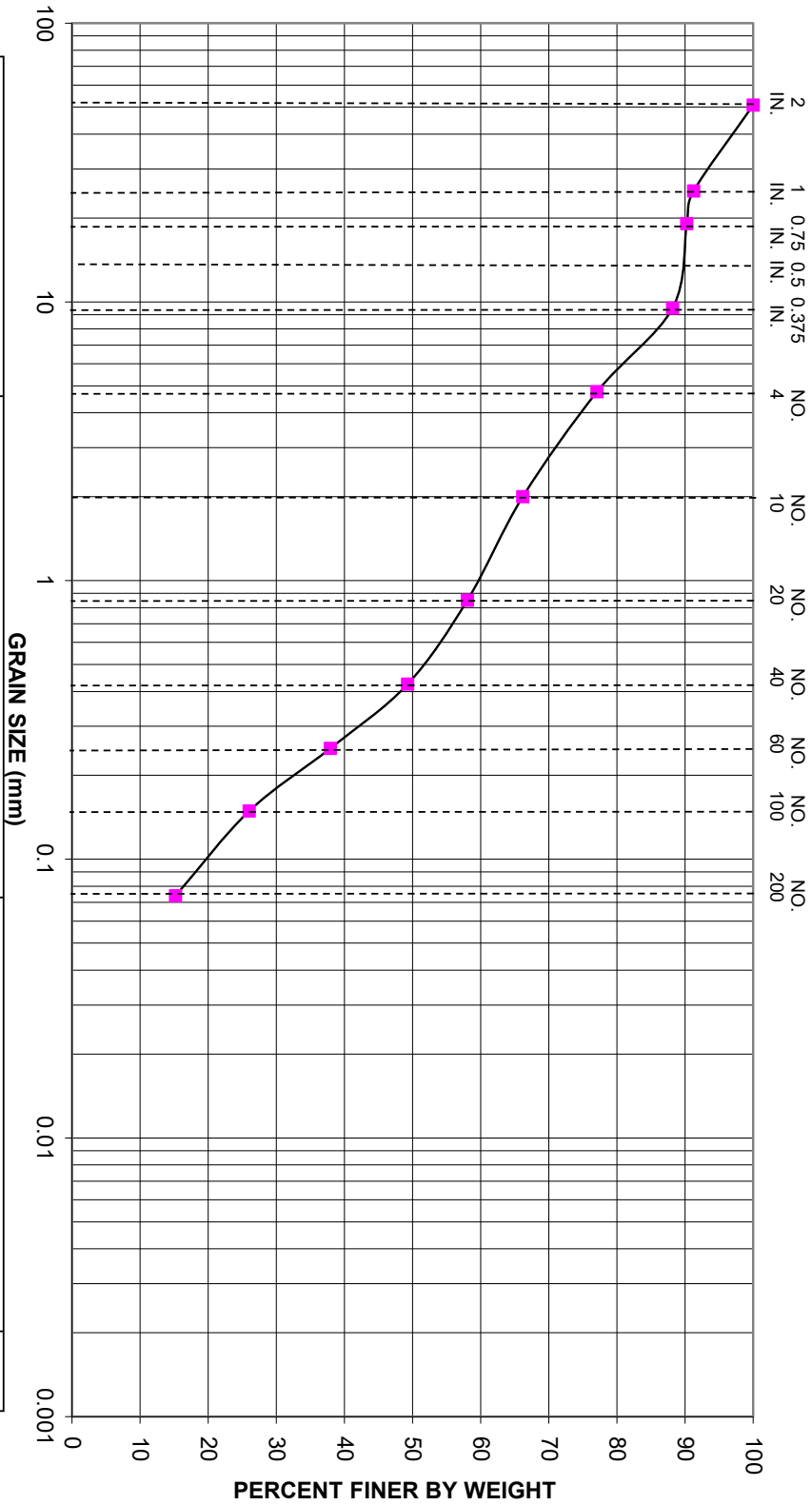
Location:	<u>Somerset Middle School, MA</u>	Container No.	<u>                    </u>	File No.	<u>19118.00</u>
Boring No.:	<u>B19-2</u>	Wt. Container (g)	<u>185</u>	Test No.	<u>2</u>
Depth:	<u>2.0 ft-4.0 ft</u>	Wt. Container, Wet Soil (g)	<u>539.5</u>	Date	<u>8/12/2019</u>
Sample No.:	<u>S-1</u>	Wt. Container, Dry Soil (g)	<u>515.7</u>	Tested By:	<u>JPN</u>
		Wt. Water (g)	<u>23.8</u>	Checked By	<u>RKM</u>
Specific Gravity, Gs:	<u>                    </u>	Wt. Dry Soil (g)	<u>330.7</u>	Dry Sieve	<u>X</u>
		Water Content (%)	<u>7.20%</u>	Wash Sieve	<u>                    </u>
		Wt. Con, Soil Before Wash (g)	<u>                    </u>	Wash Sieve	<u>                    </u>
		Wt. Con, Washed Dry Soil (g)	<u>                    </u>	Combined	<u>                    </u>
		Wt. Washed Dry Soil (g)	<u>                    </u>		<u>                    </u>

TOTAL SAMPLE

U.S. Standard Sieve No.	Sieve Opening (mm)	Sieve Wt. (g)	Sieve + Soil Wt. (g)	Accumulative Wt. of Soil Retained (g)	Accumulative Percent Retained	Total Sample Percent Finer By Wt.
2"	50.8	546.2	546.2	0.0	0.0	100.0
1"	25	553.6	577.3	23.7	8.7	91.3
0.75"	19.1	532.2	540.6	32.1	9.7	90.3
0.375"	9.5	537.1	544.0	39.0	11.8	88.2
4	4.76	498.8	535.3	75.5	22.9	77.1
10	2	481.2	517.1	111.4	33.8	66.2
20	0.85	433.6	460.4	138.2	42.0	58.0
40	0.425	378.1	407.0	167.1	50.7	49.3
60	0.250	348.9	386.3	204.5	62.1	37.9
100	0.149	331.2	370.4	243.7	74.0	26.0
200	0.074	340.8	376.4	279.3	84.8	15.2
Pan		370.7	420.8	329.4	100.0	0.0
Split Sample Wt (Washed)				0.0		
Total Sample Weight				329.4		

Loss Check: 0.393%

U.S. STANDARD SIEVE SIZE



TEST NO.	GRAVEL				SAND			SILT	CLAY	
	COARSE	FINE	COARSE	MEDIUM	FINE					
2	MATERIAL SOURCE B19-2-(S-1) Depth: 2 feet to 4 feet "SAND"								REMARKS Burnister - Fine SAND, some medium to coarse sand, some fine to coarse gravel, little silt. Unified Soil Classification System - (SM) SiltySAND with gravel TESTED BY: JPN DATE: 08/12/2019 CHECK BY: RKM DATE: 8/12/2019	





## SIEVE ANALYSIS

SOIL SAMPLEWATER CONTENT

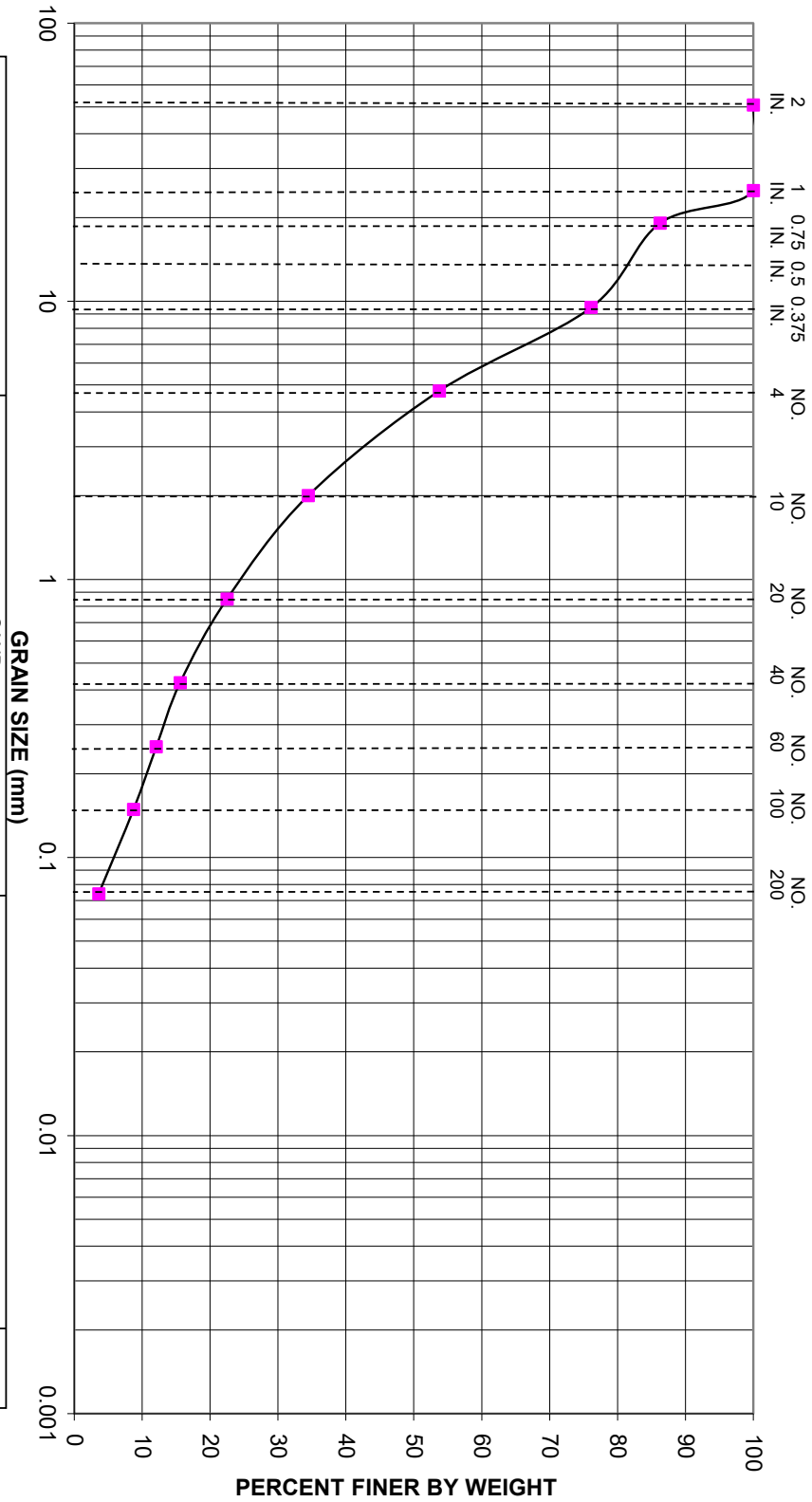
Location:	<u>Somerset Middle School, MA</u>	Container No.	<u>                    </u>	File No.	<u>19118.00</u>
Boring No.:	<u>B19-1</u>	Wt. Container (g)	<u>185</u>	Test No.	<u>3</u>
Depth:	<u>8.0 ft-10.0 ft</u>	Wt. Container, Wet Soil (g)	<u>539.5</u>	Date	<u>8/12/2019</u>
Sample No.:	<u>S-5</u>	Wt. Container, Dry Soil (g)	<u>515.7</u>	Tested By:	<u>JPN</u>
		Wt. Water (g)	<u>23.8</u>	Checked By	<u>RKM</u>
Specific Gravity, Gs:	<u>                    </u>	Wt. Dry Soil (g)	<u>330.7</u>		
		Water Content (%)	<u>7.20%</u>	Dry Sieve	<u>X</u>
		Wt. Con, Soil Before Wash (g)	<u>                    </u>		
		Wt. Con, Washed Dry Soil (g)	<u>                    </u>	Wash Sieve	<u>                    </u>
		Wt. Washed Dry Soil (g)	<u>                    </u>	Combined	<u>                    </u>

TOTAL SAMPLE

U.S. Standard Sieve No.	Sieve Opening (mm)	Sieve Wt. (g)	Sieve + Soil Wt. (g)	Accumulative Wt. of Soil Retained (g)	Accumulative Percent Retained	Total Sample Percent Finer By Wt.
2"	50.8	546.2	546.2	0.0	0.0	100.0
1"	25	553.5	553.5	0.0	0.0	100.0
0.75"	19.1	532.1	576.4	44.3	13.7	86.3
0.375"	9.5	537.3	570.1	77.1	23.9	76.1
4	4.76	498.8	571.0	149.3	46.3	53.7
10	2	481.5	543.8	211.6	65.6	34.4
20	0.85	433.7	472.3	250.2	77.5	22.5
40	0.425	378.3	400.6	272.5	84.4	15.6
60	0.250	349.1	360.4	283.8	87.9	12.1
100	0.149	331.0	341.8	294.6	91.3	8.7
200	0.074	340.6	357.2	311.2	96.4	3.6
Pan		370.7	382.3	322.8	100.0	0.0
Split Sample Wt (Washed)				0.0		
Total Sample Weight				322.8		

Loss Check: 2.389%

U.S. STANDARD SIEVE SIZE



TEST NO.	MATERIAL SOURCE						REMARKS					
3	GRAVEL			SAND			SILT			CLAY		
	COARSE	FINE	COARSE	COARSE	MEDIUM	FINE						
	B19-1 (S-5) Depth: 8 feet to 10 feet "SAND and GRAVEL"											
	Burmeister - Fine to coarse GRAVEL and medium to coarse SAND, little fine SAND, trace silt. Unified Soil Classification System - (SP), poorly-graded GRAVEL with sand											
	TESTED BY: JPN DATE: 08/12/2019 CHECK BY: BKM DATE: 8/12/2019											



## **APPENDIX C**

### **Geotechnical Limitations**



## GEOTECHNICAL LIMITATIONS

### Explorations

1. The analyses and recommendations submitted in this report are based in part upon the data obtained from subsurface explorations. The nature and extent of variations between these explorations may not become evident until construction. If variations then appear evident, Pare Corporation (PARE) should be asked to re-evaluate the recommendations of this report.
2. The generalized soil profile described in the text is intended to convey trends in the subsurface conditions. The boundaries between strata are approximate and idealized and have been developed by interpretations of widely spaced explorations and samples; actual soil transitions are probably more erratic. For specific information, refer to the boring logs.
3. Water level readings have been made in the drill holes at the times and under the conditions stated on the boring logs. These data have been reviewed and interpretations have been made in the text of this report. However, fluctuations in the level of groundwater may occur due to variations in rainfall, temperature, and other factors occurring since the time the measurements were made.

### Review

4. In the event that any changes in the nature or location of the proposed building are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and the conclusions of this report are verified in writing by PARE. PARE should also be provided with the opportunity for a general review of the final design and specifications in order that the earthwork and foundation recommendations may be properly interpreted and implemented in the design and specifications.

### Construction

5. PARE should be retained to provide soil engineering services during construction of the excavation and foundation phases of work in order to observe compliance with the design concepts, specifications, and recommendations and to allow design changes in the event that subsurface conditions differ from those indicated prior to the start of construction.

### Use of Report

6. This report has been prepared for the exclusive use of The Vertex Companies INC. for specific application to the proposed construction located at 1141 Brayton Avenue Somerset, Massachusetts in accordance with generally accepted engineering practices. No other warranty, expressed or implied, is made.
7. This engineering report has been prepared for this project by PARE. This report is for design purposes only and is not necessarily sufficient to prepare an accurate bid. Contractors wishing a copy of this report may secure it with the understanding that its scope is limited to design considerations only.



**APPENDIX D**  
**General Investigation Notes**



## GENERAL INVESTIGATION NOTES

**GENERAL**

- All depths are given in feet measured from the ground surface unless otherwise noted. Depth of angled borings is measured along the axis of the boring.
- The identification and description of soils is based on visual inspection of the retrieved samples using the Burmister Classification System. Descriptions of boring logs apply only at the specific boring locations and at the time the borings were made. They are not warranted to be representative of subsurface conditions at other locations or times.
- Water levels are observed at the end of boring (E.O.B.) or/and on a long-term basis through the use of strategically placed observation wells. The indicated levels may not reflect the actual groundwater levels. Fluctuations in groundwater levels can occur due to variations in precipitation, season, tidal fluctuation, adjacent construction activity and construction dewatering systems, and other factors.

**SOIL DESCRIPTION**

- The Standard Penetration (SPT) test is performed in general accordance with ASTM D-1586. The standard penetration resistance (N) is defined as the number of blows required to drive a 2-inch O.D., 1 3/8-inch I.D. split-spoon sampler by 12 inches by dropping a 140-lb hammer through a vertical distance of 30 inches. The sampler is normally driven 3 (for 18-inch long sampler) or 4 (for 24-inch long sampler) successive 6-inch increments. The first 6-inch is considered to be a seating drive, therefore the sum of the second and third increments are used in determining the N value.

- Consistency/Condition

<u>Coarse-Grained Soils</u>	<u>Relative Density (%)</u>	<u>N (blows per foot)</u>
Very loose	0-15	0-4
Loose	15-35	4-10
Medium dense	35-65	10-30
Dense	65-85	30-50
Very dense	85-100	>50

<u>Fine-Grained Soils</u>	<u>Unconfined Compressive Strength, <math>q_u</math> (tsf)</u>	<u>N (blows per foot)</u>	<u>Field Identification</u>
Very Soft	<0.25	0-2	Exudes between fingers when squeezed in hand
Soft	0.25-0.50	2-4	Molded by light finger pressure
Medium	0.50-1.00	4-8	Molded by strong finger pressure
Stiff	1.00-2.00	8-15	Indented by thumb
Very Stiff	2.00-4.00	15-30	Indented by thumbnail
Hard	>4.00	>30	Difficult to indent by thumbnail

<u>Grain Size</u>	<u>Descriptive Adjective</u>
Boulders – >12 in.	Trace 0-10%
Cobbles – 3 in. - 12 in.	Little 10-20%
Gravel – Coarse, 3/4 in. - 3 in.	Some 20-35%
– Fine, 0.19 in. (#4) to 3/4 in.	And 35-50%
Sand – Coarse, 0.079 in. (#10) to 0.19 in. (#4)	Percent by Weight
– Medium, 0.017 in. (#40) to 0.079 in. (#10)	
– Fine, 0.0029 in. (#200) to 0.017 in. (#40)	
Silt – 0.0002 in. to 0.0029 in. (#200)	
Clay – <0.0002 in.	

**ROCK DESCRIPTION**

- Core recovery is the total length of rock core recovered from a core run divided by the length of the run, expressed as a percentage.
- Rock Quality Designation (RQD) is the total length of hard, sound pieces of rock core greater than 4-inches from a core run divided by the length of the run, expressed as a percentage.

<u>RQD (%)</u>	<u>Description</u>	<u>Approximate Equivalent Fracture Spacing (feet)</u>	
0-25	Very Poor	Very close	(<0.2)
25-50	Poor	Close	(0.2-1)
50-75	Fair	Moderately wide	(1-3)
75-90	Good	Wide	(3-10)
90-100	Excellent	Very wide	(>10)

- “Weathering” refers to the degree of alteration observed in the rock core, which is produced by chemical and/or mechanical processes.

<u>Grade</u>	<u>Symbol</u>	<u>Recognition</u>
Fresh	F	No visible sign of decomposition or discoloration. Rings under hammer impact.
Slightly Weathered	WS	Slight discoloration inwards from open fractures, otherwise similar to F.
Moderately Weathered	WM	Discoloration throughout. Weaker minerals such as feldspar decomposed. Strength somewhat



**Appendix H** **VERTEX<sup>®</sup>**

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Phase I ESA Report





**Somerset Middle School**  
1141 Brayton Avenue  
Somerset, Massachusetts 02726

## PHASE I ENVIRONMENTAL SITE ASSESSMENT

SEPTEMBER 10, 2019

**PREPARED FOR:**

Ai3 Architects, LLC  
526 Boston Post Road  
Wayland, Massachusetts 01778  
Attn: Troy L. Randall

**PREPARED BY:**

The Vertex Companies, Inc.  
400 Libbey Industrial Parkway  
Weymouth, MA 02189  
**PHONE 781.952.6000**

**VERTEX PROJECT NO: 58759.01**



September 10, 2019

Ai3 Architects, LLC  
526 Boston Post Road  
Wayland, Massachusetts 01778  
Attn: Troy L. Randall

RE: Phase I Environmental Site Assessment  
Somerset Middle School  
1141 Brayton Avenue  
Somerset, Massachusetts  
VERTEX Project No. 58759.01

Dear Mr. Randall:

The Vertex Companies, Inc. (VERTEX) is pleased to submit this Phase I Environmental Site Assessment (ESA) report for the above referenced property (the site). The purpose of this assessment was to identify Recognized Environmental Conditions (RECs) in connection with the site. A REC is defined as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." It does not include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

Our work was conducted in general conformance with proposal P.0463.19, executed by Mr. Troy Randall on August 7, 2019, and in accordance with the general provisions of the E 1527-13 American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" for commercial real estate, as well as the U.S. Environmental Protection Agency's (USEPA) All Appropriate Inquires (AAI) Final Rule of November 1, 2005, as amended December 30, 2013. To the best of our knowledge, this Phase I ESA report is true and accurate.

---

**THE VERTEX COMPANIES, INC.**  
400 LIBBEY PARKWAY  
WEYMOUTH, MA 02189

781.952.6000 | VERTEXENG.COM

## Somerset Middle School

We declare that, to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional as defined in 40 C.F.R. Part 312.10. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. Part 312.

Please do not hesitate to contact us at your convenience should you have any questions or comments regarding this report or our recommendations. It has been a pleasure working with you on this project.

Sincerely,

**The Vertex Companies, Inc.**



Nicollette Lynch  
Scientist II



Genevieve Reynolds  
Technical Director – Due Diligence



## Somerset Middle School

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**PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**Somerset Middle School  
1141 Brayton Avenue  
Somerset, Massachusetts  
VERTEX Project No. 58759.01**

**1.0 SUMMARY**

On August 7, 2019, The Vertex Companies, Inc. (VERTEX) was contracted by Mr. Troy Randall, Partner with Ai3 Architects, LLC, to conduct a Phase I Environmental Site Assessment (ESA) of the Somerset Middle School, located at 1141 Brayton Avenue in Somerset, Massachusetts (the site). According to the Town of Somerset Assessor's Office, the site is addressed as 1141 Brayton Avenue and consists of approximately 25.21 acres of land identified as Map-Block-Lot: 005.B-0000-0344.0. The site is improved with a one-story school building with a partial basement area constructed from 1964 to 1965 and expanded in 1969. The site building is currently occupied by the Somerset Middle School. According to the Town of Somerset Assessor's Office, the site currently is owned by the Town of Somerset. The purpose of this assessment was to identify Recognized Environmental Conditions (RECs), including Controlled RECs (CRECs) and Historical RECs (HRECs), in connection with the site.

**ASTM Findings**

- Based on review of readily available historical information, the site historically consisted of undeveloped and/or agricultural land with Brayton Avenue located abutting the east of the site, and Read Street abutting the south of the site. A residence was present along Read Street on the southern portion of the site from at least 1938 through 1960. The residence was demolished prior to the construction of the current school building from 1964 to 1965. An addition was made to the school in 1969. No environmental concerns were identified with respect to current or historical use of the site.



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- According to information obtained from the Town of Somerset Fire Department, the site historically maintained two 6,200-gallon fuel oil underground storage tanks (USTs). The permits note different types of fuel oil, including #6, “less than #5”, and “less than #4”. The USTs were removed in July 1997 as part of a Town-wide project. During removal activities, headspace sampling of soil in the area of the USTs resulted in concentrations greater than 100 parts per million (ppm). Release Tracking Number (RTN) 4-0013199 was assigned to the release case. Approximately 32.84 tons of soil were removed from the tank excavation and disposed of at an approved facility. Confirmatory soil sampling did not identify concentrations of Total Petroleum Hydrocarbons (TPH) above Method 1 soil standards. A Class A-1 Response Action Outcome (RAO) Statement was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on September 15, 1997. The RAO indicates the USTs stored #2 fuel oil. Based on the reported closure, the release identified during the removal of the former on-site USTs is considered a HREC.
- The site is located in an area of residential and commercial properties. Read Street has bordered the south of the site since at least 1888. St. John of God Parish has been developed to the east of the site since 1928. Brayton Avenue has bordered the east of the site since at least 1938. Residential properties have been developed to the east of the site, across Brayton Avenue, since at least 1938. Power lines have been developed to the north of the site since at least 1938. Baseball fields have been located to the west-southwest of the site since the early 1940s. South Elementary School was developed to the southwest of the site in 1951. A water tower was developed to the west of the site during the mid-1960s. The water tower was demolished in 2012, and two new water towers were constructed. No environmental concerns were identified with respect to current or historical use of adjoining properties.
- VERTEX conducted a regulatory review that included a search of state and federal regulatory databases to identify environmental concerns for the site and surrounding properties. Several facilities were identified within the ASTM search distances of the site.



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Based on distance, apparent gradient relationship, regulatory status, and/or other facility-specific characteristics, no RECs to the site were identified with respect to these facilities.

### Conclusions

VERTEX has performed a Phase I ESA in conformance with the scope and limitations of ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, of the Somerset Middle School, located at 1141 Brayton Avenue, Somerset, Massachusetts. Exceptions to, or deletions from, this practice are described in Section 8.0 of this report. This assessment has revealed evidence of the following HREC in connection with the site.

- Based on the reported closure, the release identified during the removal of the former on-site USTs is considered a HREC.



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### 2.0 SITE AND VICINITY CHARACTERISTICS

#### 2.1 Site Description

The site is located at 1141 Brayton Avenue in Somerset, Massachusetts (the site). According to the Town of Somerset Assessor's Office, the site is addressed as 1141 Brayton Avenue and consists of approximately 25.21 acres of land identified as Map-Block-Lot: 005.B-0000-0344.0. The site location is shown on Figure 1 - Site Locus Map.

#### 2.2 Site Improvements

The site is improved with a one-story elementary school building constructed from 1964 to 1965 and expanded in 1969. The site building is constructed with brick façade exterior walls on a combination concrete basement and slab foundation with a flat roof. Solar panels are located on the roof of the site building. According to the site contact, Mr. Carlos Campos, the boiler room and main electrical room are the only basement areas, located beneath the kitchen area.

The site building is currently occupied by the Somerset Middle School. The site building consists of classrooms, an art room, offices, a library, a gymnasium, a cafeteria, an auditorium, a kitchen area, storage areas, restrooms, and back-of-house areas. Interior finishes include tile, carpet, wood, drywall, brick, concrete masonry unit (CMU), and acoustical ceiling tiles.

Exterior areas on-site consist of asphalt-paved parking areas and driveways, asphalt and concrete-paved walkways, athletic fields, and landscaped areas.

For a layout of the site, please refer to Figure 2 - Site Plan. Photographic documentation of the site and surrounding areas is presented in Appendix A.



### 2.3 Tenant Operations

The site currently operates as the Somerset Middle School. Chemicals are limited to typical small quantity storage of maintenance and cleaning supplies, which were observed to be well stored, with no signs of staining or a release. Significant quantities of petroleum products and hazardous material usage or storage were not observed on-site. A grease trap is located within the kitchen area, which is serviced annually by site maintenance personnel. The site also generates small quantities of biohazardous waste associated with the nurse's office. Biohazardous waste is collected in designated receptacles, which are serviced on a routine basis. The current on-site operations are not considered to be an environmental concern.

### 2.4 Current Uses of Adjoining Properties

The site was observed to be located in a residential and commercial area of Somerset, Massachusetts. Adjoining properties were observed (from the site or from public access areas) for signs of RECs and their potential to pose an environmental concern to the site. The uses and features of adjoining properties are described in the following table. The locations of these properties relative to the site are depicted on Figure 2 – Site Plan.

NEARBY/ADJOINING PROPERTY SUMMARY		
DIRECTION	PROPERTY USE	CONCERNS
North	Power lines, beyond which are residences	None.
East	Brayton Avenue, beyond which are residences and St. John of God Parish	None.
South	Correia & Sons Market and Read Street, beyond which are residences	None.
Southwest	South Elementary School, South Complex (baseball fields), and a water tower	None.
West	Undeveloped wooded land and water towers	None.



## 2.5 Physical Setting Source(s)

Physical setting sources specified in Section 12.0 of this report were reviewed to provide information about the geology and hydrogeology of the site.

### 2.5.1 Topography

A review of the 2012 USGS Topographic Quadrangle Map of Fall River, Massachusetts indicates that the surface elevation of the site is approximately 120 to 150 feet above mean sea level. The site appears to be located on a small-size hill; as such, the topography of the site slopes to the east and the topography of adjoining properties slopes in various directions. The topography of the surrounding area appears to generally slope to the east towards Taunton River or west towards Lee River.

### 2.5.2 Surface Water

No naturally-occurring surface water bodies were observed on or adjoining the site. However, according to the National Wetlands Inventory, a stream runs along the northern and western site boundaries. The Taunton River is located approximately 0.5 miles east-southeast of the site, and Lee River is located approximately 1 mile west of the site. Based on the Federal Emergency Management Agency (FEMA) Insurance Rate Map (FIRM) 25005C0331G, the site is not located in a 100- or 500-year floodplain.

### 2.5.3 Geologic Conditions

According to the United States Department of Agriculture (USDA) Web Soil Survey, soils at the site consist primarily of Udorthents, which are described as moderately well and well drained soils, with moderately coarse textures, and moderate infiltration rates. A small-size area of soil on the northern portion of the site consists of Pittstown silt loams, which are described as



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moderately well drained with slow infiltration rates. A small-size area of soil on the northwestern corner of the site consists of Paxton fine sandy loams, which are described as well drained with slow infiltration rates. Bedrock outcrops were not observed during the site reconnaissance.

### 2.5.4 Groundwater

Based on surface topography and nearby surface waters, groundwater flow direction is estimated to be to the east-southeast towards the Taunton River, and groundwater is anticipated to be encountered within 10 feet below ground surface (bgs). Actual local groundwater flow direction can be influenced by factors such as local surface topography, underground structures, seasonal fluctuations, soil and bedrock geology, and production wells, none of which were considered during this study.





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**3.0 USER-PROVIDED INFORMATION**

VERTEX requested the following information about the site from the Client (User):

- An evaluation of the presence of environmental cleanup liens for the site;
- Activity and use limitations (AULs) such as engineering controls (e.g., slurry walls, caps) and land use restrictions or institutional controls (e.g., deed restrictions, covenants) that may be in place for the site;
- Specialized knowledge that includes personal knowledge or experience related to the site or nearby properties based on professional experience or knowledge of the site;
- Fair market value (FMV) to evaluate whether the purchase price of any parcel was significantly below FMV;
- Obvious indicators that involve past or present spills, stains, releases, cleanups on or near the site;
- Common knowledge about use of specific chemicals, possible contamination, or past use of the site and surrounding area; and
- Reason for performing the ESA.

The Client stated that the work was being conducted in support of future renovation activities. No other responsive information regarding the site was provided by the User.



#### 4.0 INTERVIEWS

VERTEX conducted interviews regarding site history and the current on-site operations with the following individuals:

INTERVIEWS		
NAME/COMPANY	TITLE/POSITION	INFORMATION PROVIDED
Mr. Carlos Campos Somerset Public Schools	Director of Buildings and Grounds	Provided access to the site and information regarding site operations.
Municipal Officials	Various	Provided municipal information.

Information obtained from these interviews is discussed in relevant sections of this report. Please refer to Section 6.3 for a summary of information obtained from municipal inquiries.



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### 5.0 HISTORICAL RECORDS REVIEW

Past land uses for the site and adjoining properties were assessed to identify historical practices or conditions that may have impacted the site. This was accomplished by reviewing historical information from several sources including but not limited to interviews with a site representative, review of available ownership records, and review of historical information obtained from regulatory sources, aerial photographs, city directories, and historical maps.

#### 5.1 Historical Site Use Summary

Based on review of readily available historical information, the site historically consisted of undeveloped and/or agricultural land with Brayton Avenue located abutting the east of the site, and Read Street abutting the south of the site. A residence was present along Read Street on the southern portion of the site from at least 1938 through 1960. The residence was demolished prior to the construction of the current school building from 1964 to 1965. An addition was made to the school in 1969. No environmental concerns were identified with respect to current or historical use of the site.

#### 5.2 Historical Adjoining Properties Use Summary

The site is located in an area of residential properties, a school, undeveloped land, and athletic fields. Read Street has bordered the south of the site since at least 1888. St. John of God Parish has been developed to the east of the site since 1928. Brayton Avenue has bordered the east of the site since at least 1938. Residential properties have been developed to the east of the site, across Brayton Avenue, since at least 1938. Power lines have been developed to the north of the site since at least 1938. Baseball fields have been located to the west-southwest of the site since the early 1940s. South Elementary School was developed to the southwest of the site in 1951. A water tower was developed to the west of the site during the mid-1960s. The water tower was



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demolished in 2012, and two new water towers were constructed. No environmental concerns were identified with respect to current or historical use of adjoining properties.

### 5.3 Previous Environmental Reports

VERTEX was not provided with previous environmental reports for review.

### 5.4 Prior Ownership

Due to the lack of available sales information from the Town of Somerset Assessor's Office, VERTEX was unable to obtain specific site ownership information from the Bristol County Registry of Deeds, Fall River District. However, historical information obtained from the Town of Somerset Assessor's Office indicates that the site has been owned by the Town of Somerset since at least 1965. No environmental liens or AULs were noted through review of available information from the Bristol County Registry of Deeds. Prior owners of the site were not available to be interviewed.

### 5.5 City Directories

VERTEX reviewed historical city directory information for the site and adjoining properties. Due to the densely developed residential nature of the surrounding area, only commercial, institutional, and industrial properties are listed in the table below. Copies of the city directories are included in Appendix C. A summary of listings is presented below.

CITY DIRECTORY REVIEW			
YEAR	SUMMARY (ON-SITE)	SUMMARY (OFF-SITE)	CONCERNS
1985	No #: Somerset Middle School Cafeteria, Middle School South, Mass Health & Guidance	Read Street 466: Lee's House of Beauty 476: Jack's Family Variety 500: Correia & Sons 656: Somerset Clinic 700: South School 821: Somerset United	None



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CITY DIRECTORY REVIEW			
YEAR	SUMMARY (ON-SITE)	SUMMARY (OFF-SITE)	CONCERNS
		Brayton Ave 1036: St. John of God Church	
1989	1141: BICO Collaborative, Henkeles & McCoy  No #: Somerset Middle School Cafeteria, Middle School South, Mass Health & Guidance	Read Street 466: The Haircuttery 500: Correia & Sons 656: Somerset Clinic 700: South School 821: Somerset United Methodist  Brayton Ave 980: Basement Waterproofing 996: St. John of God 1036: St. John of God Church 1262: Shuster Corp.	None
1992	1141: Somerset School District	Read Street 466: The Haircuttery, Statewide Construction Co. 500: Correia & Sons Market 700: Somerset School District 841: Somerset United Methodist Church	None
1995	Not Listed	Read Street 466: The Haircuttery, Statewide Construction Co. 500: Correia & Sons Market 700: Somerset School District 841: Somerset United Methodist Church  Brayton Ave 1204: Hair Today	None
2000	1141: Somerset Junior High School, South Coast Educational Collaborative	Read Street 466: Hair It Is 476: Ideal Party 500: Correia & Sons Market Inc. 579: D&D Burner Service 700: Somerset School District 841: Somerset United Methodist Church	None
2005	1141: Somerset Junior High School, South Coast Educational Collaborative	Read Street 466: Indulgence 467: Furniture Place Inc. 472: Restore Therapy 476: Healthy Way, IDR Inc. 500: Correia & Sons Market Inc., Margi Corp. 700: Somerset School District 841: Somerset United Methodist Church  Brayton Ave 996: St. John of God Church 1204: Hair Today	None
2010	1141: Somerset School District, South Coast Educational Collaborative	Read Street 466: Indulgence 476: Healthy Way	None



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CITY DIRECTORY REVIEW			
YEAR	SUMMARY (ON-SITE)	SUMMARY (OFF-SITE)	CONCERNS
		500: Correia & Sons Market Inc. 700: Somerset School District 841: Somerset United Methodist Church  Brayton Ave 996: St. John of God Church 1204: Hair Today	
2014	1141: Somerset School District, South Coast Educational Collaborative	Read Street 467: Stop & Pick Inc., L&M Real Estate Group Inc. 476: Healthy Way 500: Correia & Sons Market Inc. 700: Somerset School District 841: Somerset United Methodist Church  Brayton Ave 985: M&D Correia Realty LLC 996: St. John of God Church 1204: Hair Today	None

The review of city directories did not identify RECs in connection with the site.

## 5.6 Aerial Photography

VERTEX reviewed aerial photographs including the site and adjoining properties. Copies of the aerial photographs are included in Appendix D. A summary of information obtained from the review is provided in the table below.

AERIAL PHOTOGRAPHY REVIEW			
YEAR	SUMMARY (ON-SITE)	SUMMARY (OFF-SITE)	CONCERNS
1938 1941	The site is depicted as undeveloped/agricultural land. A residence is developed on the southwestern corner of the site.	Roadways border the south and east of the site, beyond which are residences. A church is also noted to the east of the site. Power lines are developed to the north of the site, beyond which are residences. The area to the west of the site is undeveloped. A commercial property is developed to the southeast of the site.	None
1952 1960	Relatively unchanged.	A school has been developed to the southwest of the site. Other off-site properties remain generally similar to the previous aerial photograph.	None
1966	A portion of the current site building has been developed.	A water tower has been developed to the west of the site. Other off-site properties remain generally similar to the previous aerial photograph.	None



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AERIAL PHOTOGRAPHY REVIEW			
YEAR	SUMMARY (ON-SITE)	SUMMARY (OFF-SITE)	CONCERNS
1970	An addition has been made to the school building.	Surrounding properties appear similar to the previous aerial photograph.	None
1977 1980 1986 1991 1995 2006 2008 2012 2016	The site is consistent with its current features.	Surrounding properties are consistent with their current features. The water tower to the west of the site was demolished in 2012 and two new water towers were constructed.	None

The review of historical aerial photographs did not identify RECs in connection with the site.

### 5.7 Topographic Maps

VERTEX reviewed historical topographic maps including the site and surrounding areas. Copies of the topographic maps are included in Appendix E. A summary of information obtained from the review is provided in the table below.

TOPOGRAPHIC MAP REVIEW			
YEAR	SUMMARY (ON-SITE)	SUMMARY (OFF-SITE)	CONCERNS
1888 1893	The site is depicted as undeveloped land.	Surrounding properties are depicted as undeveloped land. A roadway is depicted adjacent to the south of the site.	None
1944 1949	A small structure is developed on the southwestern corner of the site. Remaining site areas are undeveloped.	Power lines are developed to the north of the site, beyond which are residences. A roadway borders the east of the site, beyond which are residences and a church. A roadway borders the south of the site, beyond which are residences. A school and water tower are developed to the far southwest of the site.	None
1967	A portion of the current school is developed on the northern portion of the site. The southern portion of the site remains undeveloped.	South School has been developed to the southwest of the site. Two water towers are noted to the west and southwest of the site. Read Street borders the south of the site, beyond which are multiple structures. Two structures are noted to the adjacent southeast of the site. Brayton Ave borders the east of the site, beyond which is shaded red indicating dense development. A church is also noted to the east of the site. Power lines about the north of the site.	None
1979 1985	An addition has been made to the site building, bringing the building to the current configuration.	Surrounding properties appear similar to the previous topographic map.	None
2012	No specific features are depicted on the topographic	No specific features depicted on the topographic map other than the roadways surrounding the site.	None



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TOPOGRAPHIC MAP REVIEW			
YEAR	SUMMARY (ON-SITE)	SUMMARY (OFF-SITE)	CONCERNS
	map other than the roadways surrounding the site.		

The review of historical topographic maps did not identify RECs in connection with the site.

### 5.8 Sanborn Fire Insurance Maps

VERTEX reviewed historical Sanborn Fire Insurance Maps including the site and surrounding areas. Copies of the Sanborn Fire Insurance Maps are included in Appendix F. A summary of information obtained from the review is provided in the table below.

SANBORN MAP REVIEW			
YEAR	SUMMARY (ON-SITE)	SUMMARY (OFF-SITE)	CONCERNS
1959	The site is not depicted on the map.	South School and a library are developed to the southwest of the site. The school was constructed in 1951. Other surrounding properties are not depicted on the map.	None

The review of historical Sanborn Fire Insurance Maps did not identify RECs in connection with the site.





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## 6.0 REGULATORY RECORDS REVIEW

VERTEX obtained a regulatory database report as specified in Section 12.0. Review of databases and files from federal, state, and local environmental regulatory agencies was used to identify use, generation, storage, treatment, or disposal of hazardous materials and chemicals, or release incidents of such materials that might have impacted the site. The databases discussed in the following sections address ASTM requirements. Additional federal and state databases may have also been reviewed, and if so, are listed in the table below. A copy of the database report is included in Appendix G.

VERTEX's review of these listings assessed the potential for soil, groundwater, and/or soil vapor impacts to the site from on-site listings or listings at surrounding facilities, taking into account such factors as the assumed groundwater depth and flow direction, regulatory status, distance from the site, and other information reported by the regulatory database(s) and/or other sources of information.

A summary of the database information is provided in the following table.

REGULATORY DATABASE SUMMARY			
DATABASE	ASTM RADIUS	TARGET PROPERTY	SURROUNDING FACILITIES
National Priorities List (NPL)/Proposed NPL/De-listed NPL	1 Mile	-	-
Superfund Enterprise Management System Archive (SEMS) Sites	½ Mile	-	-
SEMS Archive	½ Mile	-	-
Resource Conservation and Recovery Act (RCRA) Corrective Action Report (CORRACTS)	1 Mile	-	-
RCRA Treatment, Storage, and Disposal Facilities (RCRA-TSDF)	½ Mile	-	-
RCRA Hazardous Waste Generators	¼ Mile	-	-
RCRA Former Hazardous Waste Generators/No Longer Regulated Sites (RCRA NonGen/NLR)	¼ Mile	-	1
Facility Index System (FINDS)	Target Property	1	



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REGULATORY DATABASE SUMMARY			
DATABASE	ASTM RADIUS	TARGET PROPERTY	SURROUNDING FACILITIES
Emergency Response Notification System (ERNS)	Target Property	-	
Enforcement and Compliance History Online (ECHO)	Target Property	1	
Federal Institutional Controls/Engineering Controls	½ Mile	-	-
State Hazardous Waste Sites (SHWS)	1 Mile	-	26
Solid Waste Facilities/Landfills (SWF/LF)	½ Mile	-	-
Solid Waste Recycling Facility (SWRCY)	½ Mile	-	-
Voluntary Cleanup Program (VCP)	½ Mile	-	-
Leaking Underground Storage Tank (LUST)	½ Mile	1	5
Leaking Aboveground Storage Tank (LAST)	½ Mile	-	1
Underground Storage Tank (UST)	¼ Mile	-	-
Aboveground Storage Tank (AST)	¼ Mile	-	-
Spills	Target Property	-	
Release	Target Property	1	
State Institutional Controls	½ Mile	-	1
HW Gen	¼ Mile	-	-
Brownfield Sites	½ Mile	-	-
US Brownfield Sites	½ Mile	-	-
Drycleaners	¼ Mile	-	-
Asbestos	Target Property	1	
US AIRS	Target Property	1	
EDR Historical Auto Stations	1/8 Mile	-	-
EDR Historical Cleaners	1/8 Mile	-	-
EDR Manufactured Gas Plants (MGP)	1 Mile	-	-



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In addition to the listed databases, EDR maintains proprietary databases of historical auto stations, dry cleaners, and manufactured gas plants. These databases are based on aggregation of historical resource data and are not produced by local, state or federal agencies. As such, VERTEX reviews these databases as a part of the historical resource review and includes information from these listings where appropriate.

The database report includes an orphan summary. This summary identifies facilities that are listed on one of the above-referenced databases or lists but do not include complete or accurate geographic data. Consequently, EDR was unable to map the facilities in relation to the site. VERTEX reviewed the orphan summary prior to inspecting the site and surrounding properties. Orphan properties located within ASTM search distances of the site (if any) were incorporated into VERTEX's review.

### 6.1 On-Site Listings

The site is listed on the United States Aerometric Information Retrieval System (US AIRS) database as a minor source with Programmatic ID AIR MA0000002512000729. Compliance inspections were completed in 1987, 1990, 1993, 2002, and 2011. No violations were reported for the site. The site is also listed on the Facility Index System (FINDS) and Enforcement and Compliance History Online (ECHO) databases in association with air emissions.

The site is listed on the Asbestos database for asbestos abatement events in 2004, 2007, 2010, 2011, 2013, and 2015. Areas of abatement have included the boiler room, a men/women restroom, and a hallway.

The site is listed on the Leaking Underground Storage Tank (LUST) and RELEASE databases for contamination discovered during the removal of two former on-site 6,200-gallon fuel oil USTs in July 1997. During removal activities, headspace sampling of soil in the area of the USTs resulted in concentrations greater than 100 parts per million (ppm). Release Tracking Number (RTN) 4-



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0013199 was assigned to the release case. Approximately 32.84 tons of soil were removed from the tank excavation and disposed of at an approved facility. Confirmatory soil sampling did not identify concentrations of Total Petroleum Hydrocarbons (TPH) above Method 1 soil standards. A Class A-1 Response Action Outcome (RAO) Statement was submitted to the Massachusetts Department of Environmental Protection (MassDEP) on September 15, 1997. Based on the reported closure, the release identified during the removal of the former on-site USTs is considered a HREC.

## 6.2 Off-Site Listings

A review of state and federal regulatory records revealed several facilities within ASTM-specified search radii of the site. Of these facilities, one was located within 500 feet of the site and is discussed in the table below. The remaining database listings are not considered an environmental concern to the site based on distance, regulatory status, and/or apparent groundwater gradient and are not further discussed.

OFF-SITE STATE AND FEDERAL LISTINGS			
FACILITY	DISTANCE/ DIRECTION/ GRADIENT	REGULATORY STATUS	CONCERNS
South School 700 Read Street	Adjacent southwest/ crossgradient	LUST: Listed with RTN 4-0013198 for contamination discovered during the removal of a 5,000-gallon #2 fuel oil UST in July 1997. During removal activities, headspace sampling of soil in the area of the UST resulted in concentrations greater than 100 ppm. Approximately 8.21 tons of soil were removed from the tank excavation and disposed of at an approved facility. Confirmatory soil sampling did not identify concentrations of TPH above Method 1 soil standards. A Class A-1 RAO Statement was submitted to the MassDEP on September 15, 1997. Based on the reported closure, the off-site release facility is not considered a concern in connection with the site.	None

VERTEX notes that EDR mapped a release facility, identified at 1250 Brayton Road, listed on the SHWS and RELEASE databases, approximately 75 feet from the site. However, after review of regulatory documents for the release case on the MassDEP Online File Server, the release is



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located at 1250 Brayton Point Road, over 4,000 feet southwest of the site. As such, concerns were not identified.

### 6.3 Additional Environmental Record Sources

VERTEX contacted local agencies to request information relevant to the site and vicinity. A summary of the agencies contacted and the information obtained is included in the following table.

LOCAL RESEARCH SUMMARY		
OFFICE	INFORMATION OBTAINED	CONCERNS
Town of Somerset Assessor's Office	VERTEX obtained the assessor card and detailed property information for the subject site.	None
Somerset Town Clerk's Office	No records pertaining to the site were on-file.	None
Town of Somerset Water Department	The site is connected to the municipal water and sewer systems. Initial connection dates were not provided.	None
Town of Somerset Building Department	VERTEX reviewed various permits for the site, including alteration/renovation permits, plumbing permits, electrical permits, and a permit to install solar panels of the roof of the site building in 2015. No records of environmental concern were identified.	None
Town of Somerset Health Department	No records pertaining to the site were on-file, except for food establishment permits.	None
Town of Somerset Fire Department	Annual inspections for the school were on-file dating back to the 1960s. Records of two 6,200-gallon fuel oil USTs installed in 1965 were reviewed. Please refer to Section 6.1 for further discussion of the former on-site USTs.	See Section 6.1
Town of Somerset Conservation Commission	No records pertaining to the site were on-file.	None
Bristol County Registry of Deeds – Fall River District	Due to the lack of available sales information from the Town of Somerset Assessor's Office, prior ownership records were unable to be located. See Section 5.4.	None



## 7.0 SITE RECONNAISSANCE

A site visit was conducted by VERTEX representative Nicollette Lynch, Scientist II, on August 6, 2019 between 10:00 a.m. and 12:00 p.m. Mr. Carlos Campos, Director of Buildings and Grounds with Somerset Public Schools, escorted VERTEX during the site visit and answered questions regarding site operations.

During the site visit, the weather was partly cloudy with a temperature of approximately 45° Fahrenheit. The site visit consisted of a walk-through of the site and visual reconnaissance of neighboring properties from curbside. Photographic documentation of the site visit is included in Appendix A.

### 7.1 Access Restrictions

VERTEX visually and physically observed accessible areas of the site. The interior and exterior of the site building were observed. The building roof was not accessed during the site inspection. Based on the current site use as a middle school, this access limitation is not considered to be significant. No additional limitations imposed by physical obstructions or other limiting conditions were observed.

### 7.2 Site Observations

Observations of site conditions were made during the site reconnaissance and are summarized in the table below. Issues of concern are discussed in greater detail following the table.

SITE OBSERVATIONS		
DESCRIPTION	REPORTED/ OBSERVED ON-SITE Y/N	COMMENTS
Hazardous Substances and	Y	The site currently utilizes small quantities of janitorial cleaning chemicals and maintenance supplies. These materials were observed to be well



## Somerset Middle School

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SITE OBSERVATIONS		
DESCRIPTION	REPORTED/ OBSERVED ON-SITE Y/N	COMMENTS
Petroleum Products		stored and are reportedly utilized in accordance with their labeling. No RECs were noted.
UST(s)	N	VERTEX did not observe fill pipes, vent pipes or other evidence of current UST(s). VERTEX did not observe operations and/or equipment that are typically associated with significant fuel or chemical storage that typically utilizes USTs. Please refer to Section 6.1 for information pertaining to previous USTs located on-site.
AST(s)	N	VERTEX did not observe evidence of AST(s). VERTEX did not observe operations and/or equipment that are typically associated with significant fuel or chemical storage that typically utilizes ASTs.
Strong, Pungent, or Noxious Odors	N	Not identified during the site visit.
Pools of Liquid	N	Not identified during the site visit.
Drums	N	Not identified during the site visit.
Unidentified Substance Containers	N	Not identified during the site visit.
Polychlorinated Biphenyls (PCB)-containing Equipment	N	A pad-mounted transformer was noted adjacent to the northwestern corner of the site building. No labeling regarding PCB content was observed. The transformer is reportedly owned and operated by National Grid. No staining was observed in the vicinity of the transformer; as such, no environmental concerns were identified.
Utilities (Electricity/ Natural Gas)	Y	Electricity – supplied by National Grid Natural gas – supplied by Liberty Utilities
Hydraulic Equipment	N	Not identified during the site visit.
Water Supply	Y	Water is supplied to the site by the Town of Somerset. An initial connection date was not available.
Wells	N	On-site water extraction or groundwater monitoring wells were not identified or reported.
Wastewater	Y	Wastewater discharges from the site are limited to domestic and commercial discharges with no indicated process/industrial type discharges. Sewer service is provided to the site by the Town of Somerset. An initial connection date was not available.
Septic	N	Not identified or reported during the site visit.
Storm Water	Y	Storm water at the site discharges to storm water catch basins located throughout the site property, which reportedly discharge to the municipal storm water system. No staining or evidence of a release was observed in the vicinity of the storm water catch basins. No environmental concerns were noted.
Flood Plain	N	According to FEMA, the site is not located in a 100- or 500-year floodplain.
Pits, Ponds, Lagoons	N	Not identified during the site visit.



## Somerset Middle School

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SITE OBSERVATIONS		
DESCRIPTION	REPORTED/ OBSERVED ON-SITE Y/N	COMMENTS
Stained Soil, Stained Pavement, Corrosion to Pavement	N	Not identified during the site visit.
Stressed Vegetation	N	Not identified during the site visit.
Solid Waste	Y	Solid waste and recycling are stored in dumpsters located to the north of the site building, which are serviced on a routine basis by a contractor. The dumpsters are situated on asphalt pavement. No staining or evidence of a release was observed in the vicinity of the dumpsters. No environmental concerns were identified.
Hazardous Waste Management	Y	The site generates small quantities of biohazardous waste associated with the nurse's office. Biohazardous waste is collected in designated receptacles, which are serviced on a routine basis.
Heating/Cooling	Y	The site building is primarily heated by natural gas-fired boilers and cooled by portable electric window air conditioner units, if necessary. However, select areas associated with the site building are heated and/or cooled by electrically-controlled and natural gas-fired HVAC equipment. The site contacts had no knowledge regarding historical heating systems associated with the site building.
Drains, Sumps, Oil/Water Separators/Sand Traps	Y	Floor drains, which reportedly discharge to the municipal sewer system, were observed throughout the site building.  The kitchen area is equipped with an unknown capacity above grade grease trap, which is serviced annually by maintenance personnel.  The site also maintains three sump pumps in the boiler room, and one sump pump in the main electrical room.  No staining or evidence of a release was observed in the vicinity of the on-site floor drains, grease trap, or sump pumps. As such, no RECs were identified.
Vapor Intrusion	N	As part of this assessment, VERTEX assessed the potential for impacts to the site from potential on- and off-site sources of vapor intrusion. The potential for impacts from off-site properties included a review of current off-site operations (see Section 2.4), a review of historical operations (see Section 5.2), and a review of regulatory database records (see Section 6.2). Potential sources of on- and off-site vapor intrusion were not identified.





**Somerset Middle School**

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**8.0 DATA GAPS**

Significant data gaps that would affect VERTEX's ability to identify RECs at the site were not encountered during this assessment. Deviations or deletions from the scope of work defined by ASTM E 1527-13 were not intentionally made.

Our conclusions regarding the potential environmental impact of nearby, off-site facilities on the site are based on readily available information from the environmental databases and the assumed groundwater flow direction as inferred from the topography of the site and surrounding area. A detailed file review of each facility was beyond the scope of work. However, VERTEX reviewed regulatory files for the site and adjacent South Elementary School from the MassDEP. Please refer to Sections 6.1 and 6.2 for further discussion.



## **9.0 CONCLUSIONS AND RECOMMENDATIONS**

VERTEX has performed a Phase I ESA in conformance with the scope and limitations of ASTM E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, of the Somerset Middle School, located at 1141 Brayton Avenue, Somerset, Massachusetts. Exceptions to, or deletions from, this practice are described in Section 8.0 of this report. This assessment has revealed evidence of the following HREC in connection with the site.

- Based on the reported closure, the release identified during the removal of the former on-site USTs is considered a HREC.



**Somerset Middle School**

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**10.0 SCOPE AND LIMITATIONS****10.1 Purpose**

The primary purpose of this assessment is to identify, to the extent feasible pursuant to the processes prescribed in ASTM E 1527-13, RECs in connection with the site. As defined in ASTM E 1527-13, a REC is “the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.” It does not include *de minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A “historical REC” is defined in ASTM E 1527-13 as “a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).” ASTM E 1527-13 defines the term “controlled REC” as “a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).”

In conducting this assessment, VERTEX followed ASTM E 1527-13, as well as the U.S. Environmental Protection Agency’s All Appropriate Inquires (AAI) Final Rule of November 1, 2005 as amended December 30, 2013. There were no exceptions to or deletions from this



**Somerset Middle School**

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practice, as described in Section 8.0 of the report. ASTM defines good commercial and customary practice for conducting an ESA of a parcel of commercial real estate with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. 9601) and petroleum products. This practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability. The practice constitutes “all appropriate inquiries into the previous ownership and uses of the facility in accordance with generally accepted good commercial and customary standards and practices” as defined at 42 U.S.C. 9601(35)(B).

As part of ASTM E 1527-13, Phase I ESAs must be conducted by or under the supervision of a qualified Environmental Professional. The AAI Final Rule defines an Environmental Professional as someone who possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding conditions indicative of releases or threatened releases on, at, in, or to a property, sufficient to meet the objectives and performance factors of the rule. We declare that to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 C.F.R. 312.10. We have the specific qualifications based on education, training and experience to assess a property of the nature, history, and setting of the site. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. Part 312.

**10.2 Detailed Scope-of-Services**

As part of this Phase I ESA, and in accordance with the provisions of ASTM E 1527-13, VERTEX performed a visual reconnaissance of the site, noted use of adjoining properties, and conducted historical and regulatory records research. The following provides a more detailed description of the scope of services:



## Somerset Middle School

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- Visual assessment of the site building(s), if present, and grounds to identify potential for on-site petroleum or hazardous material release(s).
- Visual assessment and categorization of the use of abutting and adjoining properties as potential off-site sources of petroleum or hazardous material contamination to the site.
- Review of readily available state and federal regulatory records related to on-site activities and to potential off-site activities to identify sources of petroleum or hazardous material contamination to the site.
- Review of readily available historical information to assess for potential on-site and off-site sources of petroleum or hazardous material contamination to the site.
- Review of readily available local records related to historical site ownership, usage, and development. This includes obtaining information from local environmental authorities to identify complaints, violations, citations, inspections, environmental liens, AULs, or institutional and engineering controls related to the site.
- Review of readily available documents and other resources for the site and site vicinity to evaluate current and historical development and renovation activities.
- Visual assessment for suspect Polychlorinated Biphenyl (PCB) containing equipment, e.g., transformers, elevators. Please note, this scope of work does not include an evaluation for or testing of suspect PCBs in building materials such as caulking, mastic/adhesives, oil-based paints, coatings and sealants. Currently, there are no regulatory requirements to test in-place building materials for the presence of PCBs. Although testing is not required for in place materials, owners are required to know the content of the waste streams that they generate and potentially sign waste profiles prior to disposal facility acceptance. Therefore, if renovation or demolition activities are to be conducted at the site that will result in the



## Somerset Middle School

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generation of demolition debris, a contractor or waste disposal facility may request certification of knowledge of the waste stream or testing to determine if the material(s) contain PCBs for proper handling and disposal purposes.

- Preparation of a Phase I ESA report.

### 10.3 Significant Assumptions

Information obtained from the Client, the Client's representative, site representatives, individuals interviewed, and prior environmental reports is considered to be accurate unless VERTEX's reasonable inquiries clearly revealed otherwise.

Conditions observed were considered to be representative of areas that were not observed unless otherwise indicated.

The primary direction of groundwater flow is assumed to follow topography, unless otherwise indicated by measurement of the potentiometric surface or other quantifiable data.

VERTEX reviewed reasonably ascertainable public records with respect to past operations and ownership of the site in an attempt to determine past site usage. VERTEX is not a professional title insurance firm and makes no guarantee, express or implied, that the listing reviewed represented a comprehensive delineation of past site ownership or tenancy for legal purposes. The accuracy and completeness of information maintained in public records by public agencies or other entities is assumed to be sufficient for the purposes of this Phase I ESA, and independent verification of its validity is beyond the scope of this investigation.



#### 10.4 Limitations and Exceptions

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. The findings within this ESA utilized information that was practically reviewable per ASTM Practice E 1527-13, meaning that only relevant data relating to the subject site has been incorporated into the findings, disregarding extraordinary analysis of irrelevant data. The investigation conducted for this ESA was limited to data that were reasonably ascertainable, meaning that the information was publicly available, obtainable within the cost and time constraints under the scope of services for this project, and practically available. VERTEX is not responsible for the independent conclusions, opinions, or recommendations made by others based on the records review, site inspection, field exploration, and laboratory test data presented in this report.

It should be noted that all surficial environmental assessments are inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. Subsurface conditions were not field-investigated as part of this study and may differ from the conditions implied by the surficial observations. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. VERTEX does not warrant against future operations or conditions, or against operations or conditions present of a type or at a location not investigated. VERTEX does not assume responsibility for other environmental issues that may be associated with the subject site.

This study is not intended to assess or otherwise determine if soil contamination, waste emplacement, or groundwater contamination exists. These data are accessible only by sampling of subsurface material and groundwater through the completion of soil borings and the installation of monitoring wells and the chemical analyses of soil and groundwater samples. The scope of work, determined by the client, did not include these activities.



## Somerset Middle School

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In view of the rapidly changing status of environmental laws, regulations and guidelines, VERTEX cannot be responsible for changes in laws, regulations, or guidelines that occur after the study has been completed and that may affect the subject site.

It must be noted that no investigation can absolutely rule out the existence of hazardous materials at a given site. This assessment has been based upon prior site history and observable conditions. Existing hazardous materials and contaminants can escape detection using these methods.

There were no significant data gaps or accessibility limitations that would affect VERTEX's ability to identify RECs at the sites, as discussed in Section 8.0.

While VERTEX may comment on environmental compliance matters that fall under the scope of this assessment, this study does not constitute a regulatory compliance audit, and does not document compliance with applicable state, federal, or local regulations.

### **10.5 Special Terms and Conditions**

No special Terms and Conditions were agreed upon between the User and the Environmental Professional.

### **10.6 User Reliance**

This report is for the exclusive use of Ai3 Architects, LLC. No other party shall have the right to rely on any service provided by VERTEX without prior written consent. Use of this report by any other party shall be at such party's sole risk.





## Somerset Middle School

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### 11.0 REFERENCES

#### **Agencies Contacted/Records Reviewed:**

Town of Somerset Assessor's Office  
Town of Somerset Town Clerk's Office  
Town of Somerset Water Department  
Town of Somerset Building Department  
Town of Somerset Health Department  
Town of Somerset Fire Department  
Town of Somerset Conservation Commission  
Bristol County Registry of Deeds – Fall River District

#### **Other Documents Reviewed:**

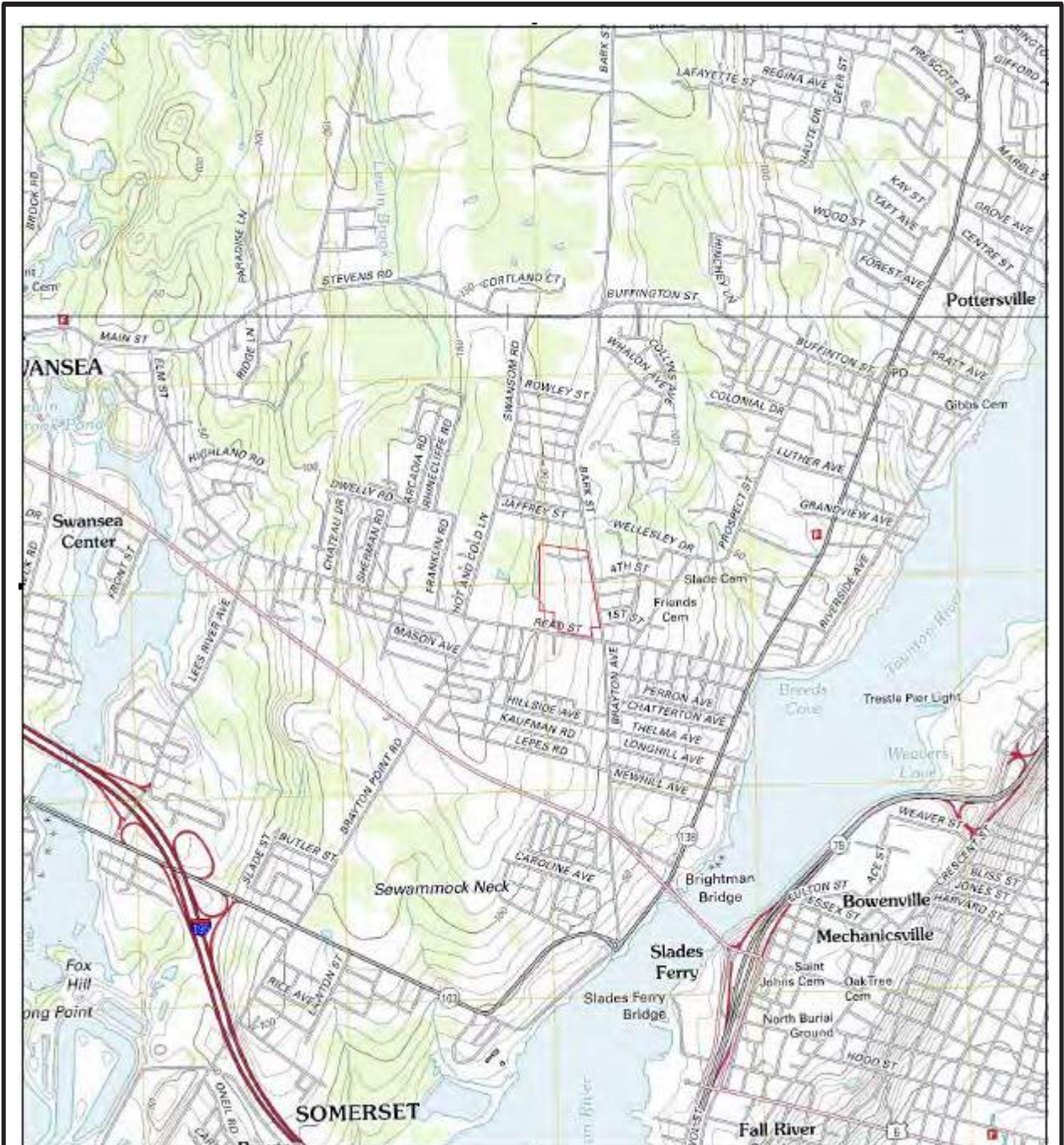
EDR Database Report, August 5, 2019.  
Aerial photographs obtained from EDR, dated 1938, 1941, 1952, 1960, 1966, 1970, 1977, 1980, 1986, 1991, 1995, 2006, 2008, 2012, and 2016.  
City directories obtained from EDR, dated 1985, 1989, 1992, 1995, 2000, 2005, 2010, and 2014.  
Topographic maps obtained from EDR, dated 1888, 1893, 1944, 1949, 1967, 1979, 1985, and 2012.  
Sanborn Fire Insurance Maps obtained from EDR, dated 1959.

#### **Interviews:**

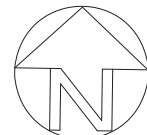
Mr. Carlos Campos, Director of Buildings and Grounds  
Various Municipal Staff




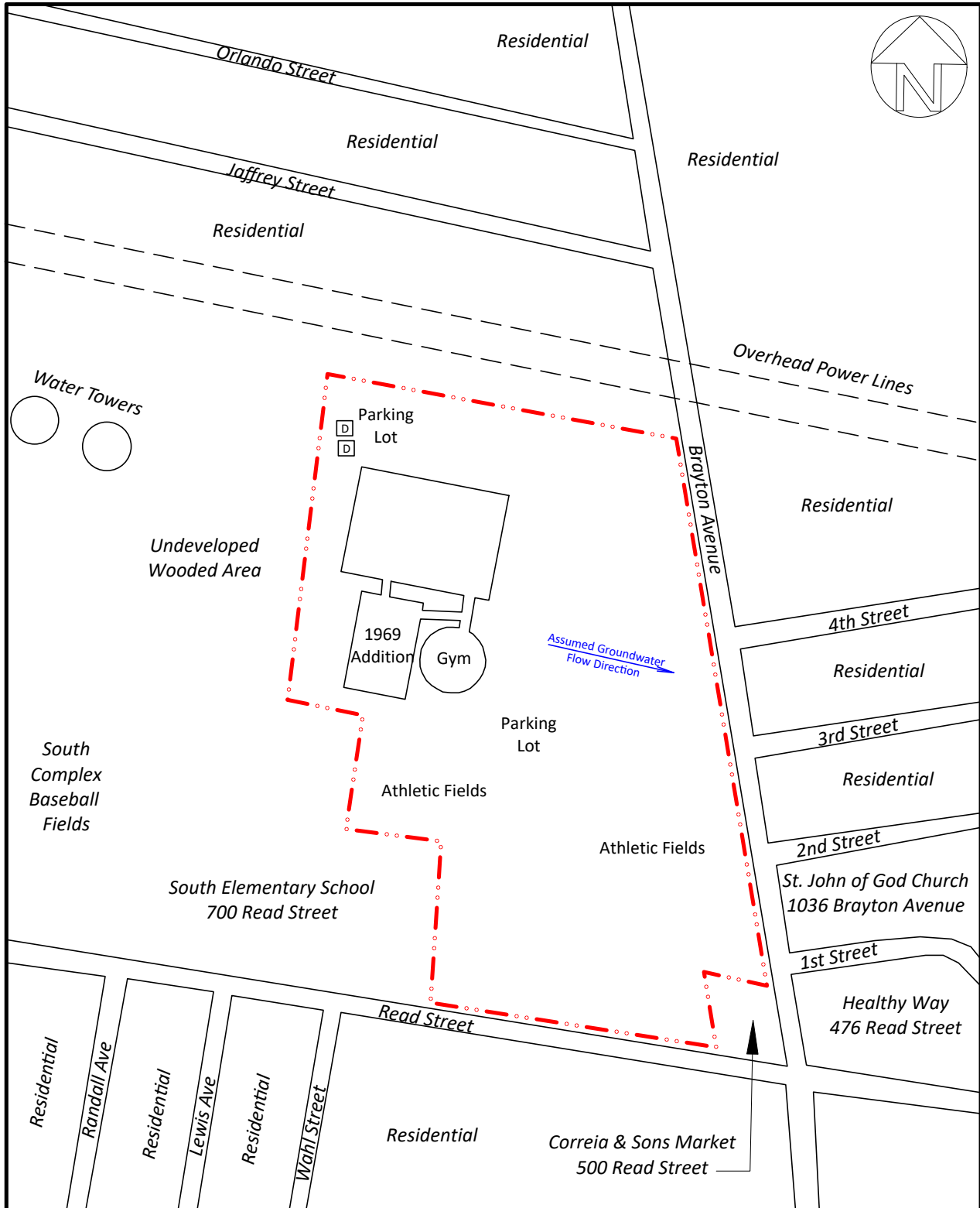
## FIGURES



2012 USGS Topographic Map  
Fall River, Massachusetts Quadrangle



<b>SITE LOCUS</b> Somerset Middle School 1141 Brayton Avenue Somerset, Massachusetts	SCALE: 1":24,000'	 <b>FIGURE NO. 1</b>
	September 2019	
	VERTX Proj. No. 58759.01	



<p><b>SITE SCHEMATIC</b></p> <p>Somerset Middle School 1141 Brayton Avenue Somerset, Massachusetts</p>	<p>SCALE: NOT TO SCALE</p>	<p><b>VERTEX</b></p> <p><b>FIGURE NO. 2</b></p>
	<p>September 2019</p>	
	<p>VERTEX Proj. No.58759.01</p>	

**APPENDIX A:  
PHOTOGRAPHIC DOCUMENTATION**

Photographic Documentation  
Somerset Middle School  
1141 Brayton Avenue  
Somerset, Massachusetts  
VERTEX Proj. No. 58759.01



Photo #1: View of the site from the east along Brayton Ave.



Photo #2: Eastern exterior.



Photo #3: Southeastern portion of the site building, the school gymnasium.



Photo #4: Connection between the 1965 and 1969 portions of the site building.



Photo #5: Western exterior of the 1969 addition.



Photo #6: Western exterior of the 1965 portion of the site building.



Photographs taken by Nicollette Lynch on August 6, 2019.

**Photographic Documentation  
Somerset Middle School  
1141 Brayton Avenue  
Somerset, Massachusetts  
VERTEX Proj. No. 58759.01**



**Photo #7:** Northern exterior.



**Photo #8:** Dumpsters located to the northwest of the site building.



**Photo #9:** Transformer along the northern exterior of the site building.



**Photo #10:** Description



**Photo #11:** Athletic fields to the south of the site building and paved parking lot.



**Photo #12:** Athletic fields on the southern portion of the site.



Photographs taken by Nicollette Lynch on August 6, 2019.

Photographic Documentation  
Somerset Middle School  
1141 Brayton Avenue  
Somerset, Massachusetts  
VERTEX Proj. No. 58759.01



Photo #13: Main entryway.



Photo #14: Gym.



Photo #15: Southern hallway connecting the 1969 addition to the original portion of the site building.



Photo #16: Classroom.



Photo #17: Library.



Photo #18: Auditorium.



Photographs taken by Nicollette Lynch on August 6, 2019.



**Photographic Documentation  
Somerset Middle School  
1141 Brayton Avenue  
Somerset, Massachusetts  
VERTEX Proj. No. 58759.01**



**Photo #19:** Cafeteria.



**Photo #20:** Grease trap.



**Photo #21:** Cafeteria.



**Photo #22:** Hallway.



**Photo #23:** Water towers to the west of the site.



**Photo #24:** South Complex baseball fields to the southwest of the site.



Photographs taken by Nicollette Lynch on August 6, 2019.

Photographic Documentation  
Somerset Middle School  
1141 Brayton Avenue  
Somerset, Massachusetts  
VERTEX Proj. No. 58759.01



**Photo #25:** South Elementary School to the southwest of the site.



**Photo #26:** Correia & Sons Market to the south of the site.



**Photo #27:** Healthy Way to the southeast of the site, across Brayton Avenue.



**Photo #28:** St. John of God Church to the east of the site, across Brayton Avenue.



**Photo #29:** Residences to the east of the site across Brayton Avenue.



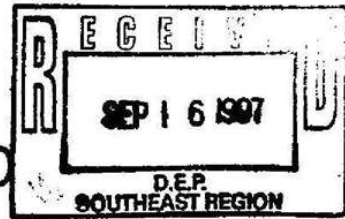
**Photo #30:** Power lines to the north of the site.



Photographs taken by Nicollette Lynch on August 6, 2019.

**APPENDIX B:  
RELEVANT DOCUMENTS**

SCANNED



IMMEDIATE RESPONSE ACTION  
COMPLETION REPORT  
AND RAO SUPPORT DOCUMENTATION  
RELEASE TRACKING NO. 4-0013199  
SOUTH MIDDLE JUNIOR HIGH SCHOOL

SOMERSET PUBLIC SCHOOLS  
580 WHETSTONE HILL ROAD  
SOMERSET, MASSACHUSETTS 02726

SEPTEMBER 15, 1997

PREPARED BY:  
RESOURCE CONTROL ASSOCIATES, INC.  
474 BROADWAY  
PAWTUCKET, RHODE ISLAND 02860-1377

**IMMEDIATE RESPONSE ACTION COMPLETION REPORT  
AND RAO SUPPORT DOCUMENTATION  
RELEASE TRACKING NO. 4-0013199  
SOUTH MIDDLE JUNIOR HIGH SCHOOL**

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Figure 1 Site Planning and Monitoring Locations

**APPENDICES**

Appendix A: Laboratory Certificates of Analysis  
Appendix B: Bills of Lading  
Appendix C: Additional Limitations

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Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC-103

Release Tracking Number

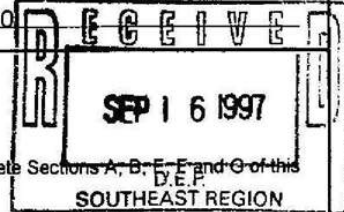
4 - 13199

If assigned by DEP

**RELEASE NOTIFICATION & NOTIFICATION RETRACTION FORM** Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

**A. RELEASE OR THREAT OF RELEASE LOCATION:**

Street: 1141 Brayton Avenue Location Aid: South Middle Junior HS  
City/Town: Somerset ZIP Code: 02726-0000



**B. THIS FORM IS BEING USED TO:** (check one)

- Submit a Release Notification (complete all sections of this form).
- Submit a Retraction of a Previously Reported Notification of a Release or Threat of Release (complete Sections A, B, E, F and G of this form). You MUST attach the supporting documentation required by 310 CMR 40.0335.

**C. INFORMATION DESCRIBING THE RELEASE OR THREAT OF RELEASE (TOR):**

Date and time you obtained knowledge of the Release or TOR. Date: 07/18/97 Time: 12:00 Specify:  AM  PM

The date you obtained knowledge is always required. The time you obtained knowledge is not required if reporting only 120 Day Conditions.

IF KNOWN, record date and time release or TOR occurred. Date: 07/18/97 Time: 12:00 Specify:  AM  PM

Check here if you previously provided an Oral Notification to DEP (2 Hour and 72 Hour Reporting Conditions only).

Provide date and time of Oral Notification. Date: 07/18/97 Time: 12:00 Specify:  AM  PM

Check all Notification Thresholds that apply to the Release or Threat of Release: (for more information see 310 CMR 40.0310 - 40.0315)

- | 2 HOUR REPORTING CONDITIONS  | 72 HOUR REPORTING CONDITIONS  | 120 DAY REPORTING CONDITIONS   |
|--|---|--|
| <input type="checkbox"/> Sudden Release                                | <input type="checkbox"/> Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/2 Inch | <input type="checkbox"/> Release of Hazardous Material(s) to Soil or Groundwater Exceeding Reportable Concentration(s)       |
| <input type="checkbox"/> Threat of Sudden Release                      | <input checked="" type="checkbox"/> Underground Storage Tank (UST) Release                            | <input type="checkbox"/> Release of Oil to Soil Exceeding Reportable Concentration(s) and Affecting More than 2 Cubic Yards  |
| <input type="checkbox"/> Oil Sheen on Surface Water                    | <input type="checkbox"/> Threat of UST Release  | <input type="checkbox"/> Release of Oil to Groundwater Exceeding Reportable Concentration(s)                                 |
| <input type="checkbox"/> Poses Imminent Hazard                         | <input type="checkbox"/> Release to Groundwater near Water Supply                                     | <input type="checkbox"/> Subsurface Non-Aqueous Phase Liquid (NAPL) Equal to or Greater than 1/8 Inch and Less than 1/2 Inch |
| <input type="checkbox"/> Could Pose Imminent Hazard                    | <input type="checkbox"/> Release to Groundwater near School or Residence                              |  |
| <input type="checkbox"/> Release Detected in Private Well              |   |  |
| <input type="checkbox"/> Release to Storm Drain                        |   |  |
| <input type="checkbox"/> Sanitary Sewer Release (Imminent Hazard Only) |   |  |

List below the Oils or Hazardous Materials that exceed their Reportable Concentration or Reportable Quantity by the greatest amount. If necessary, attach a list of additional Oil and Hazardous Material substances subject to reporting.

Name and Quantities of Oils (O) and Hazardous Materials (HM) Released:

O or HM Released	O HM (check one)	CAS # (if known)	Amount or Concentration	Units	Reportable Concentrations Exceeded, if Applicable (RCS-1, RCS-2, RCGW-1, RCGW-2)
No. 2 fuel oil	<input checked="" type="checkbox"/>		109	ppm	headspace
	<input type="checkbox"/>				
	<input type="checkbox"/>				

**D. ADDITIONAL INVOLVED PARTIES:**

- Check here if attaching names and addresses of owners of properties affected by the Release or Threat of Release, other than an owner who is submitting this Release Notification (required).
- Check here if attaching Licensed Site Professional (LSP) name and address (optional).

You may write in names and addresses on the bottom of the second page of this form.

DT



Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC-103

Release Tracking Number

**RELEASE NOTIFICATION & NOTIFICATION RETRACTION  
FORM** Pursuant to 310 CMR 40.0335 and 310 CMR 40.0371 (Subpart C)

4 - 13199

If assigned by DEP

**E. PERSON REQUIRED TO NOTIFY:**Name of Organization: Somerset Public SchoolsName of Contact: Edmond Goulart Title: Business ManagerStreet: 580 Whetstone Hill RoadCity/Town: Somerset State: MA ZIP Code: 02726-0000Telephone: 508-324-3100 Ext.: \_\_\_\_\_ FAX: (optional) \_\_\_\_\_**F. RELATIONSHIP OF PERSON REQUIRED TO NOTIFY TO RELEASE OR THREAT OF RELEASE:** (check one)

- RP or PRP Specify:  Owner  Operator  Generator  Transporter Other RP or PRP: \_\_\_\_\_
- Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
- Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
- Any Person Otherwise Required to Notify Specify Relationship: \_\_\_\_\_

**G. CERTIFICATION OF PERSON REQUIRED TO NOTIFY:**

I, Edmond Goulart, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: [Signature] Title: Business Manager

(signature)

For: Somerset Public Schools Date: 9/16/97

(print name of person or entity recorded in Section E)

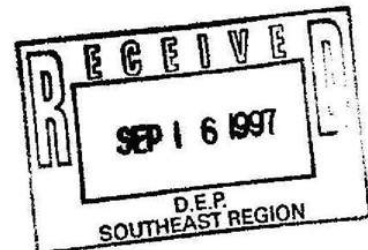
Enter address of the person providing certification, if different from address recorded in Section E:

Street: \_\_\_\_\_

City/Town: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Ext.: \_\_\_\_\_ FAX: (optional) \_\_\_\_\_

**YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS  
INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING  
A REQUIRED DEADLINE.**





**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

**BWSC-104**

**RESPONSE ACTION OUTCOME (RAO) STATEMENT &  
 DOWNGRADIANT PROPERTY STATUS TRANSMITTAL FORM**

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking Number

4 - 13199

*BK*

**A. SITE OR DOWNGRADIANT PROPERTY LOCATION:**

Site Name: (optional) Somerset Public Schools

Street: 1141 Brayton Avenue

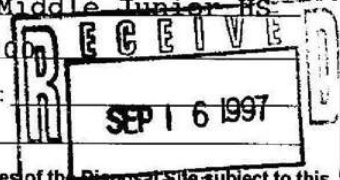
Location Aid: South Middle Junior HS

City/Town: Somerset

ZIP Code: 02726-0000

Check here if this Site location is Tier Classified. If a Tier I Permit has been issued, state the Permit Number: \_\_\_\_\_

Related Release Tracking Numbers that this Form Addresses: \_\_\_\_\_



If submitting an RAO Statement, you must document the location of the Site or the location and boundaries of the Disposal Site subject to this Statement. If submitting an RAO Statement for a PORTION of a Disposal Site, you must document the location and boundaries for 60% of the portion subject to this submittal and, to the extent defined, the entire Disposal Site. If submitting a Downgradient Property Status Submittal, you must provide a site plan of the property subject to the submittal and, to the extent defined, the Disposal Site.

**B. THIS FORM IS BEING USED TO:** (check all that apply)

Submit a Response Action Outcome (RAO) Statement (complete Sections A, B, C, D, E, F, H, I, J and L).

Check here if this is a revised RAO Statement. Date of Prior Submittal: \_\_\_\_\_

Check here if any Response Actions remain to be taken to address conditions associated with any of the Releases whose Release Tracking Numbers are listed above. This RAO Statement will record only an RAO-Partial Statement for those Release Tracking Numbers.

Specify Affected Release Tracking Numbers: \_\_\_\_\_

Submit an optional Phase I Completion Statement supporting an RAO Statement or Downgradient Property Status Submittal (complete Sections A, B, H, I, J, and L).

Submit a Downgradient Property Status Submittal (complete Sections A, B, G, H, I, J and K).

Check here if this is a revised Downgradient Property Status Submittal. Date of Prior Submittal: \_\_\_\_\_

Submit a Termination of a Downgradient Property Status Submittal (complete Sections A, B, I, J and L).

Submit a Periodic Review Opinion evaluating the status of a Temporary Solution (complete Sections A, B, H, I, J and L).

Specify one:  For a Class C RAO  For a Waiver Completion Statement indicating a Temporary Solution

Provide Submittal Date of RAO Statement or Waiver Completion Statement: \_\_\_\_\_

You must attach all supporting documentation required for each use of form indicated, including copies of any Legal Notices and Notices to Public Officials required by 310 CMR 40.1400.

**C. DESCRIPTION OF RESPONSE ACTIONS:** (check all that apply)

Assessment and/or Monitoring Only

Removal of Contaminated Soils

Re-use, Recycling or Treatment

On Site  Off Site Est. Vol.: \_\_\_\_\_ cubic yards

Describe: \_\_\_\_\_

Landfill  Cover  Disposal Est. Vol.: 20 cubic yards

Removal of Drums, Tanks or Containers

Describe: \_\_\_\_\_

Removal of Other Contaminated Media

Specify Type and Volume: \_\_\_\_\_

Other Response Actions

Describe: \_\_\_\_\_

Deployment of Absorbant or Contaminant Materials

Temporary Covers or Caps

Bioremediation

Soil Vapor Extraction

Structure Venting System

Product or NAPL Recovery

Groundwater Treatment Systems

Air Sparging

Temporary Water Supplies

Temporary Evacuation or Relocation of Residents

Fencing and Sign Posting

SECTION C IS CONTINUED ON THE NEXT PAGE.





Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC-104

RESPONSE ACTION OUTCOME (RAO) STATEMENT &  
DOWNGRADIENT PROPERTY STATUS TRANSMITTAL FORM

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking Number

4 - 13199

C. DESCRIPTION OF RESPONSE ACTIONS: (continued)

Check here if any Response Action(s) that serve as the basis for this RAO Statement involve the use of Innovative Technologies. (DEP is interested in using this information to create an Innovative Technologies Clearinghouse.)

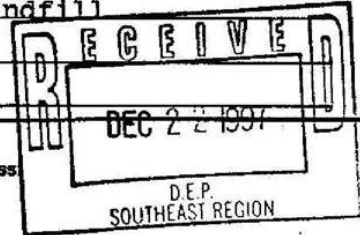
Describe Technologies: \_\_\_\_\_

D. TRANSPORT OF REMEDIATION WASTE: (If Remediation Waste was sent to an off-site facility, answer the following questions)

Name of Facility: Laidlaw Waste Systems - Allied Plainville Landfill

Town and State: Plainville, MA

Quantity of Remediation Waste Transported to Date: 32.84 tons



E. RESPONSE ACTION OUTCOME CLASS:

Specify the Class of Response Action Outcome that applies to the Site or Disposal Site. Select ONLY one Class.

Class A-1 RAO: Specify one of the following:

- Contamination has been reduced to background levels.  A Threat of Release has been eliminated.

Class A-2 RAO: You MUST provide justification that reducing contamination to background levels is infeasible.

Class A-3 RAO: You MUST provide both an implemented Activity and Use Limitation (AUL) and justification that reducing contamination to background levels is infeasible.

If applicable, provide the earlier of the AUL expiration date or date the design life of the remedy will end: \_\_\_\_\_

Class B-1 RAO: Specify one of the following:

- Contamination is consistent with background levels  Contamination is NOT consistent with background levels.

Class B-2 RAO: You MUST provide an Implemented AUL.

If applicable, provide the AUL expiration date: \_\_\_\_\_

Class C RAO:  Check here if you will conduct post-RAO Operation, Maintenance and Monitoring at the Site.

Specify One:  Passive Operation and Maintenance  Monitoring Only

Active Operation and Maintenance (defined at 310 CMR 40.0006)

F. RESPONSE ACTION OUTCOME INFORMATION:

If an RAO Compliance Fee is required, check here to certify that the fee has been submitted. You MUST attach a photocopy of the payment.

Check here if submitting one or more AULs. You must attach an AUL Transmittal Form (BWSC-113) and a copy of each implemented AUL related to this RAO Statement. Specify the type of AUL(s) below: (required for all Class A-3 RAOs and Class B-2 RAOs)

- Notice of Activity and Use Limitation  Grant of Environmental Restriction Number of AULs attached: \_\_\_\_\_

Specify the Risk Characterization Method(s) used to achieve the RAO described above and all Soil and Groundwater Categories applicable to the Site.

More than one Soil Category and more than one Groundwater Category may apply at a Site.  
Be sure to check off all APPLICABLE categories, even if more stringent soil and groundwater standards were met.

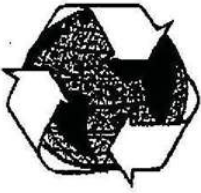
Risk Characterization Method(s) Used:  Method 1  Method 2  Method 3

Soil Category(ies) Applicable:  S-1  S-2  S-3

Groundwater Category(ies) Applicable:  GW-1  GW-2  GW-3

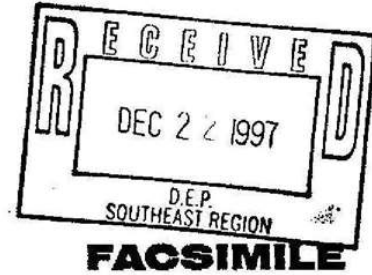
> When submitting any Class A-1 RAO or a Class B-1 RAO where contamination is consistent with background levels, do NOT specify a Risk Characterization Method.

> When submitting any Class A-2 RAO or a Class B-1 RAO where contamination is NOT consistent with background levels, you cannot use an AUL to maintain a level of no significant risk. Therefore, you must meet S-1 Soil Standards, if using Risk Characterization Method 1.



RESOURCE CONTROLS

The proven solution to your environmental needs.



DATE: 12/22/97 JOB NO.: A4365

TO: Beverly Hill - MADEP 508-947-6557

FROM: Robert C. Atwood Resource Controls (401) 728-6860

NO. OF PAGES INCLUDING COVER SHEET: 2

PROJECT: Somerset Schools RTN 4-13198 and 4-13199

Attached please find the revised Section 4 BWSC-104 (page 2) form for sites RTN 4-13198 and RTN 4-13199. I will forward the original revised pages to you in tonight's mail so that you may replace previously forwarded reports.

If you do not receive all of the pages or if you have any problems with the transmission, please call our office at (401)-728-6860 to request assistance.

("F:\UL\FAXCOVER.SHN")

474 Broadway Pawtucket, RI 02860 401 728-6860 Fax 401 727-1849

18 Lincoln Avenue Scituate, MA 02066 617 545-3908 Fax 617 545-9068





**Massachusetts Department of Environmental Protection**  
**Bureau of Waste Site Cleanup**

BWSC-104

**RESPONSE ACTION OUTCOME (RAO) STATEMENT &  
 DOWNGRADIENT PROPERTY STATUS TRANSMITTAL FORM**

Release Tracking Number

Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) &amp; 40.1056 (Subpart J)

4 - 13199

**C. DESCRIPTION OF RESPONSE ACTIONS: (continued)**

- Check here if any Response Action(s) that serve as the basis for this RAO Statement involve the use of Innovative Technologies. (DEP is interested in using this information to create an Innovative Technologies Clearinghouse.)

Describe Technologies: \_\_\_\_\_

**D. TRANSPORT OF REMEDIATION WASTE: (if Remediation Waste was sent to an off-site facility, answer the following questions)**

Name of Facility: Laidlaw Waste Systems - Allied Plainville LandfillTown and State: Plainville, MAQuantity of Remediation Waste Transported to Date: 32.84 tons

**E. RESPONSE ACTION OUTCOME CLASS:**

Specify the Class of Response Action Outcome that applies to the Site or Disposal Site. Select **ONLY** one Class:

- Class A-1 RAO:** Specify one of the following:

Contamination has been reduced to background levels.       A Threat of Release has been eliminated.

- Class A-2 RAO:** You **MUST** provide justification that reducing contamination to background levels is infeasible.

- Class A-3 RAO:** You **MUST** provide both an implemented Activity and Use Limitation (AUL) and justification that reducing contamination to background levels is infeasible.

If applicable, provide the earlier of the AUL expiration date or date the design life of the remedy will end: \_\_\_\_\_

- Class B-1 RAO:** Specify one of the following:

Contamination is consistent with background levels       Contamination is **NOT** consistent with background levels.

- Class B-2 RAO:** You **MUST** provide an implemented AUL.

If applicable, provide the AUL expiration date: \_\_\_\_\_

- Class C RAO:**  Check here if you will conduct post-RAO Operation, Maintenance and Monitoring at the Site.

Specify One:  Passive Operation and Maintenance       Monitoring Only Active Operation and Maintenance (defined at 310 CMR 40.0006)

**F. RESPONSE ACTION OUTCOME INFORMATION:**

- If an RAO Compliance Fee is required, check here to certify that the fee has been submitted. You **MUST** attach a photocopy of the payment.

- Check here if submitting one or more AULs. You must attach an AUL Transmittal Form (BWSC-113) and a copy of each implemented AUL related to this RAO Statement. Specify the type of AUL(s) below: (required for all Class A-3 RAOs and Class B-2 RAOs)

Notice of Activity and Use Limitation       Grant of Environmental Restriction      Number of AULs attached: \_\_\_\_\_

Specify the Risk Characterization Method(s) used to achieve the RAO described above and all Soil and Groundwater Categories applicable to the Site.

More than one Soil Category and more than one Groundwater Category may apply at a Site.

Be sure to check off all APPLICABLE categories, even if more stringent soil and groundwater standards were met.

Risk Characterization Method(s) Used:  Method 1       Method 2       Method 3Soil Category(ies) Applicable:  S-1       S-2       S-3Groundwater Category(ies) Applicable:  GW-1       GW-2       GW-3

- > When submitting any Class A-1 RAO or a Class B-1 RAO where contamination is consistent with background levels, do **NOT** specify a Risk Characterization Method.

- > When submitting any Class A-2 RAO or a Class B-1 RAO where contamination is **NOT** consistent with background levels, you cannot use an AUL to maintain a level of no significant risk. Therefore, you must meet S-1 Soil Standards, if using Risk Characterization Method 1.





**Massachusetts Department of Environmental Protection**  
**Bureau of Waste Site Cleanup**

BWSC-104

**RESPONSE ACTION OUTCOME (RAO) STATEMENT &  
 DOWNGRADIANT PROPERTY STATUS TRANSMITTAL FORM**

Release Tracking Number

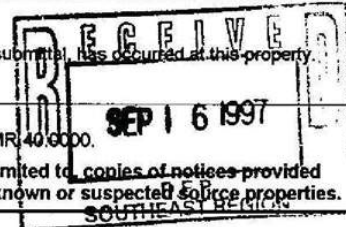
Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) &amp; 40.1056 (Subpart J)

4 - 13199

**G. DOWNGRADIANT PROPERTY STATUS SUBMITTAL:**

- If a Downgradient Property Status Submittal Compliance Fee is required, check here to certify that the fee has been submitted. You **MUST** attach a photocopy of the payment.
- Check here if a Release(s) of Oil or Hazardous Material(s), other than that which is the subject of this submittal, has occurred at this property.  
 Release Tracking Number(s): \_\_\_\_\_
- Check here if the Releases identified above require further Response Actions pursuant to 310 CMR 40.0000.

Required documentation for a Downgradient Property Status Submittal includes, but is not limited to, copies of notices provided to owners and operators of both upgradient and downgradient abutting properties and of any known or suspected source properties.

**H. LSP OPINION:**

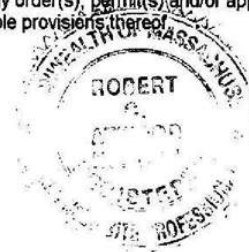
I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief,

> if Section B indicates that a Downgradient Property Status Submittal is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in 310 CMR 40.0183(2)(b), and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that either an RAO Statement, Phase I Completion Statement and/or Periodic Review Opinion is being provided, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

- Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you **MUST** attach a statement identifying the applicable provisions thereof.

LSP Name: Robert C. Atwood LSP #: 1481 Stamp: \_\_\_\_\_Telephone: 401-728-6860 Ext.: \_\_\_\_\_FAX: (optional) 401-727-1849Signature: Robert C. AtwoodDate: 9/15/97**I. PERSON MAKING SUBMITTAL:**Name of Organization: Somerset Public SchoolsName of Contact: Edmond Goulart Title: Business ManagerStreet: 580 Whetstone Hill RoadCity/Town: Somerset State: MA ZIP Code: 02726-0000Telephone: 508-324-3100 Ext.: \_\_\_\_\_ FAX: (optional) \_\_\_\_\_**J. RELATIONSHIP TO SITE OF PERSON MAKING SUBMITTAL:** (check one)

- RP or PRP Specify:  Owner  Operator  Generator  Transporter Other RP or PRP: \_\_\_\_\_
- Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
- Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
- Any Other Person Submitting This Form Specify Relationship: \_\_\_\_\_

Revised 4/7/95

Supersedes Forms BWSC-004 and 010 (in part)  
 Do Not Alter This Form

Page 3 of 4



Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC-104

RESPONSE ACTION OUTCOME (RAO) STATEMENT &  
DOWNGRAIDENT PROPERTY STATUS TRANSMITTAL FORM

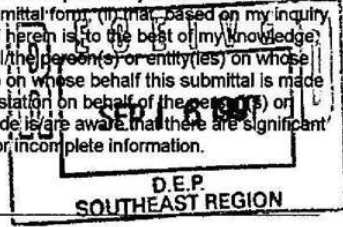
Pursuant to 310 CMR 40.0180 (Subpart B), 40.0580 (Subpart E) & 40.1056 (Subpart J)

Release Tracking Number

4 - 13199

K. CERTIFICATION OF PERSON SUBMITTING DOWNGRAIDENT PROPERTY STATUS SUBMITTAL:

I, \_\_\_\_\_, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form; (ii) that, based on my inquiry of the/those individual(s) immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge, information and belief, true, accurate and complete; (iii) that, to the best of my knowledge, information and belief, I/the person(s) or entity(ies) on whose behalf this submittal is made satisfy(ies) the criteria in 310 CMR 40.0183(2); (iv) that I/the person(s) or entity(ies) on whose behalf this submittal is made have provided notice in accordance with 310 CMR 40.0183(5); and (v) that I am fully authorized to make this attestation on behalf of the person(s) or entity(ies) legally responsible for this submittal. I/the person(s) or entity(ies) on whose behalf this submittal is made is/are aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.



By: \_\_\_\_\_ Title: \_\_\_\_\_  
(signature)

For: \_\_\_\_\_ Date: \_\_\_\_\_  
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

Street: \_\_\_\_\_  
City/Town: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Ext.: \_\_\_\_\_ FAX: (optional) \_\_\_\_\_

L. CERTIFICATION OF PERSON MAKING SUBMITTAL:

If you are completing only a Downgradient Property Status Submittal, you do not need to complete this section of the form.

I, Edmond Goulart, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form; (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: Edmond Goulart Title: Business Manager  
(signature)

For: Somerset Public Schools Date: 9/16/97  
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

Street: \_\_\_\_\_  
City/Town: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Ext.: \_\_\_\_\_ FAX: (optional) \_\_\_\_\_

**YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE, AND YOU MAY INCUR ADDITIONAL COMPLIANCE FEES.**



Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC-105

## IMMEDIATE RESPONSE ACTION (IRA)

TRANSMITTAL FORM Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

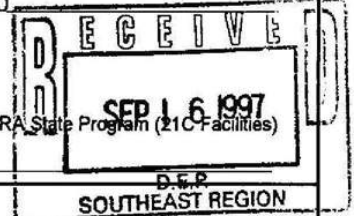
Release Tracking Number

4 - 13199

## A. RELEASE OR THREAT OF RELEASE LOCATION:

Release Name: (optional) Somerset Public SchoolsStreet: 1141 Brayton Avenue Location Aid: South Middle Junior HSCity/Town: Somerset ZIP Code: 02726-0000 Check here if a Tier Classification Submittal has been provided to DEP for this Release Tracking Number. Check here if this location is Adequately Regulated, pursuant to 310 CMR 40.0110-0114.Specify Program:  CERCLA  HSWA Corrective Action  Solid Waste Management  RCRA State Program

Related Release Tracking Numbers That This IRA Addresses: \_\_\_\_\_



## B. THIS FORM IS BEING USED TO: (check all that apply)

 Submit an IRA Plan (complete Sections A, B, C, D, E, H, I, J and K). Check here if this IRA Plan is an update or modification of a previously approved written IRA Plan. Date Submitted: \_\_\_\_\_ Submit an Imminent Hazard Evaluation (complete Sections A, B, C, F, H, I, J and K). Submit an IRA Status Report (complete Sections A, B, C, E, H, I, J and K). Submit a Request to Terminate an Active Remedial System and/or Terminate a Continuing Response Action(s) Taken to Address an Imminent Hazard (complete Sections A, B, C, D, E, H, I, J and K). Submit an IRA Completion Statement (complete Sections A, B, C, D, E, G, H, I, J and K).

You must attach all supporting documentation required for each use of form indicated, including copies of any Legal Notices and Notices to Public Officials required by 310 CMR 40.1400.

## C. RELEASE OR THREAT OF RELEASE CONDITIONS THAT WARRANT IRA:

Identify Media and Receptors Affected: (check all that apply)  Air  Groundwater  Surface Water  Sediments  Soil Wetland  Storm Drain  Paved Surface  Private Well  Public Water Supply  Zone 2  Residence School  Unknown  Other Specify: \_\_\_\_\_Identify Conditions That Require IRA, Pursuant to 310 CMR 40.0412: (check all that apply)  2 Hour Reporting Condition(s) 72 Hour Reporting Condition(s)  Substantial Release Migration  Other Condition(s)Describe: The Department determined that this immediate response action is necessary based on the results of on-site soil screeningIdentify Oils and Hazardous Materials Released: (check all that apply)  Oils  Chlorinated Solvents  Heavy Metals Others Specify: \_\_\_\_\_

## D. DESCRIPTION OF RESPONSE ACTIONS: (check all that apply)

 Assessment and/or Monitoring Only Excavation of Contaminated Soils Re-use, Recycling or Treatment On Site  Off Site Est. Vol.: \_\_\_\_\_ cubic yards

Describe: \_\_\_\_\_

 Store  On Site  Off Site Est. Vol.: \_\_\_\_\_ cubic yards Landfill  Cover  Disposal Est. Vol.: 20 cubic yards Removal of Drums, Tanks or Containers

Describe: \_\_\_\_\_

 Deployment of Absorbent or Containment Materials Temporary Covers or Caps Bioremediation Soil Vapor Extraction Structure Venting System Product or NAPL Recovery Groundwater Treatment Systems Air Sparging Temporary Water Supplies

SECTION D IS CONTINUED ON THE NEXT PAGE.



Massachusetts Department of Environmental Protection  
Bureau of Waste Site Cleanup

BWSC-105

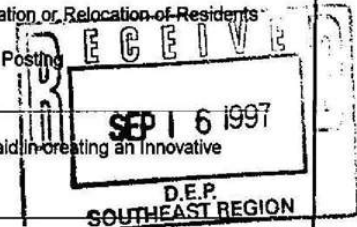
**IMMEDIATE RESPONSE ACTION (IRA)  
TRANSMITTAL FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

Release Tracking Number

4 - 13199

**D. DESCRIPTION OF RESPONSE ACTIONS (continued):**

- Removal of Other Contaminated Media  
Specify Type and Volume: \_\_\_\_\_
- Other Response Actions Describe: \_\_\_\_\_
- Check here if this IRA involves the use of Innovative Technologies (DEP is interested in using this information to aid in creating an innovative Technologies Clearinghouse).  
Describe Technologies: \_\_\_\_\_
- Temporary Evacuation or Relocation of Residents
- Fencing and Sign Posting

**E. TRANSPORT OF REMEDIATION WASTE:** (if Remediation Waste has been sent to an off-site facility, answer the following questions)Name of Facility: Laidlaw Waste Systems - Allied Plainville LandfillTown and State: Plainville, MAQuantity of Remediation Waste Transported to Date: 32.84 tons**F. IMMINENT HAZARD EVALUATION SUMMARY:** (check one of the following)

- Based upon an evaluation, an Imminent Hazard exists in connection with this Release or Threat of Release.
- Based upon an evaluation, an Imminent Hazard does not exist in connection with this Release or Threat of Release.
- Based upon an evaluation, it is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release, and further assessment activities will be undertaken.
- Based upon an evaluation, it is unknown whether an Imminent Hazard exists in connection with this Release or Threat of Release. However, response actions will address those conditions that could pose an Imminent Hazard.

**G. IRA COMPLETION STATEMENT:**

- Check here if future response actions addressing this Release or Threat of Release will be conducted as part of the Response Actions planned for a Site that has already been Tier Classified under a different Release Tracking Number, or a Site that is identified on the Transition List as described in 310 CMR 40.0600 (i. e., a Transition Site, which includes Sites with approved Waivers). These additional response actions must occur according to the deadlines applicable to the earlier Release Tracking Number (i. e., Site ID Number).

State Release Tracking Number (i. e., Site ID Number) of Tier Classified Site or Transition Site: \_\_\_\_\_

**If any Remediation Waste will be stored, treated, managed, recycled or reused at the site following submission of the IRA Completion Statement, you must submit either a Release Abatement Measure (RAM) Plan or a Phase IV Remedy Implementation Plan, along with the appropriate transmittal form, as an attachment to the IRA Completion Statement.**

**H. LSP OPINION:**

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief,

> if Section B of this form indicates that an **Immediate Response Action Plan** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Imminent Hazard Evaluation** is being submitted, this Imminent Hazard Evaluation was developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and the assessment activity(ies) undertaken to support this Imminent Hazard Evaluation complies(y) with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000;

> if Section B of this form indicates that an **Immediate Response Status Report** is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B of this form indicates that an **Immediate Response Action Completion Statement** or a **Request to Terminate an Active Remedial System and/or Terminate a Continuing Response Action(s) Taken to Address an Imminent Hazard** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies(y) with the identified provisions of all orders, permits, and approvals identified in this submittal.

SECTION H IS CONTINUED ON THE NEXT PAGE.





**Massachusetts Department of Environmental Protection**  
Bureau of Waste Site Cleanup

BWSC-105

**IMMEDIATE RESPONSE ACTION (IRA)****TRANSMITTAL FORM** Pursuant to 310 CMR 40.0424 - 40.0427 (Subpart D)

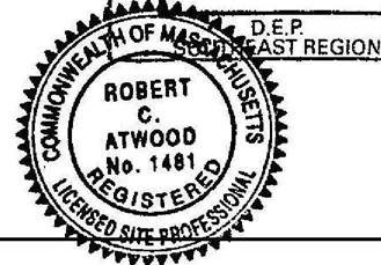
Release Tracking Number

4 - 13199

**H. LSP Opinion (continued):**

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

- Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

LSP Name: Robert C. Atwood LSP #: 1481 Stamp:Telephone: 401-728-6860 Ext.: \_\_\_\_\_FAX: (optional) 401-727-1849Signature: Robert C. AtwoodDate: 9/15/97**I. PERSON UNDERTAKING IRA:**Name of Organization: Somerset Public SchoolsName of Contact: Edmond Goulart Title: Business ManagerStreet: 580 Whetstone Hill RoadCity/Town: Somerset State: MA ZIP Code: 02726-0000Telephone: 508-324-3100 Ext.: \_\_\_\_\_ FAX: (optional) \_\_\_\_\_

- Check here if there has been a change in the person undertaking the IRA.

**J. RELATIONSHIP TO RELEASE OR THREAT OF RELEASE OF PERSON UNDERTAKING IRA: (check one)**

- RP or PRP Specify:  Owner  Operator  Generator  Transporter Other RP or PRP: \_\_\_\_\_

- Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

- Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

- Any Other Person Undertaking IRA Specify Relationship: \_\_\_\_\_

**K. CERTIFICATION OF PERSON UNDERTAKING IRA:**

I, Edmond Goulart, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

By: Edmond Goulart Title: Business Manager  
(signature)For: Somerset Public Schools Date: 9/16/97  
(print name of person or entity recorded in Section I)

Enter address of the person providing certification, if different from address recorded in Section I:

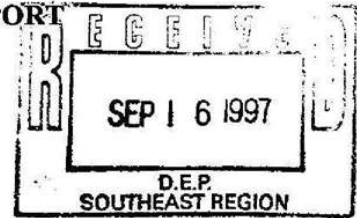
Street: \_\_\_\_\_

City/Town: \_\_\_\_\_ State: \_\_\_\_\_ ZIP Code: \_\_\_\_\_

Telephone: \_\_\_\_\_ Ext.: \_\_\_\_\_ FAX: (optional) \_\_\_\_\_

**YOU MUST COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.**

**IMMEDIATE RESPONSE ACTION COMPLETION REPORT  
AND RAO SUPPORT DOCUMENTATION  
RELEASE TRACKING NO. 4-0013199  
SOUTH MIDDLE JUNIOR HIGH SCHOOL**



**1.0 OVERVIEW**

In accordance with the Massachusetts Contingency Plan (MCP 310 CMR 40.0427), this document has been prepared to provide the Massachusetts Department of Environmental Protection (MADEP) with a completion report on the Immediate Response Action (IRA) implemented at the site and associated support documentation for a Response Action Outcome (RAO). The IRA performed was in response to a release of No. 2 fuel oil. The Site is the South Middle School (Junior High School) at 1141 Brayton Avenue in Somerset, Massachusetts.

A release of No. 2 fuel oil that had previously occurred at the Site was discovered during underground storage tank (UST) removal activities. Headspace sampling of soil in the area of the UST gave results greater than 100 ppm. Approximately 32.84 tons of soil was removed from the tank area, stockpiled, and subsequently removed from the Site for disposal at an approved facility. Following soil removal, confirmatory samples were collected and submitted to a State approved laboratory for analysis. The samples were analyzed for total petroleum hydrocarbons (TPH). The results were below applicable Method 1 soil standards.

As a result of the foregoing activities at the Site, Resource Controls concludes that site conditions have been restored to background conditions; that a condition of No Significant Risk to human health, public welfare, safety, or the environment exists at the Site; IRA activities have been completed; and that a Class A-1 Response Action Outcome has been achieved.

**2.0 SITE DESCRIPTIONS**

**2.1 General Descriptions**

The Site is the property located at 1141 Brayton Avenue in Somerset, Massachusetts, also known as the South Middle Junior High School. The property is owned and operated by Somerset Public Schools for an educational facility. See Figure 1 for a site location plan.

**3.0 PLAN FOR IMMEDIATE RESPONSE ACTIONS**

**3.1 Purpose**

The purpose of the Immediate Response Action was to assess, and eliminate where practical, site conditions at the underground tank site that may be time critical. Specifically, the goal was to assess the extent of contamination and remove a limited amount of soil from the tank grave, prior to site restoration.

### **3.2 Scope of IRA Assessment Activities Performed to Date**

Resource Controls collected soil samples from 14 locations within the two tank excavation areas during and after tank removal. Of the 14 samples collected, only one indicated a headspace reading greater than 100 ppm, found to be 109 ppm "as benzene". Following notification to MADEP, approximately 32.84 tons of contaminated soil was removed from the tank grave for disposal. Soils in the area of the excavated soils were again screened for headspace. Following detection of trace level headspace results, two confirmatory soil samples were obtained and sent to the laboratory for TPH analysis. The samples contained 10 milligrams per kilogram (mg/kg) and 8.6 mg/kg of TPH, which are considered to be equivalent to background. There was no evidence that the release affected groundwater.

Resource Controls has prepared this IRA Completion Report for submittal to the MADEP. The report documents all procedures followed and results obtained and includes a Site Plan depicting the location of the site and sampling points.

### **3.3 Remediated Waste Materials**

Approximately 32.84 tons of petroleum contaminated soils were removed to Laidlaw's landfill in Plainville, Massachusetts, for reuse as daily cover. A copy of the Bill of Lading is included in Appendix B.

## **4.0 CONCLUSIONS**

As a result of the subject Immediate Response Action conducted, Resource Controls has found that background conditions have been attained and therefore, a condition of No Significant Risk relative to human health, public welfare, safety and the environment exists at the Site. Based on the foregoing, a Class A-1 Response Action Outcome is appropriate for the Site. All contaminated soil has been removed from the Site.

## **5.0 RECOMMENDATIONS**

No further action is necessary regarding the subject Site.

## **6.0 LIMITATIONS**

This report addresses the environmental characteristics of the Subject Property with regard to the release of No. 2 fuel oil at the Subject tank location. It is not intended to guarantee that the Subject Property is or is not free from conditions, materials or substances which could adversely impact the environment or pose a threat to public health and safety. Rather, it is intended to be used as a summary of available information on existing conditions, the conclusions of which are based upon a reasonable and knowledgeable review of evidence found in accordance with normally accepted industry standards, state and federal protocols, and within the scope and budget established with the client. Should further research on the Subject Property be warranted, any additional data obtained must be reviewed by Resource Controls and the conclusions presented herein may be modified accordingly. This report or any part thereof, may not be altered, used, relied upon or reproduced by any party without first obtaining written permission from Resource Controls.

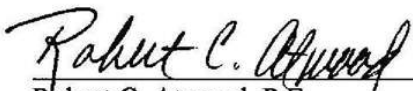
Conclusions stated herein are based on the available information summarized herein and refer only to the specific Subject Property investigated. No warranty is implied or given.


**7.0 LSP OPINION AND REPORT AUTHORIZATION**

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this submittal, including any and all documents accompanying this submittal. In my professional opinion and judgement based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and (iii) the provisions of 309 CMR 4.03(5), to the best of my knowledge, information and belief, the response action that is the subject of this submittal (i) has been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is appropriate and reasonable to accomplish the purposes of such response action as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000 and (iii) complies with the identified provisions of all orders, permits, and approvals identified in this submittal.

  
\_\_\_\_\_  
Robert C. Atwood, P.E.  
L.S.P. No. 1481

This report has been prepared and reviewed by the undersigned staff in accordance with Resource Controls' standard Quality Control Procedures.

  
\_\_\_\_\_  
Robert C. Atwood, P.E.  
President

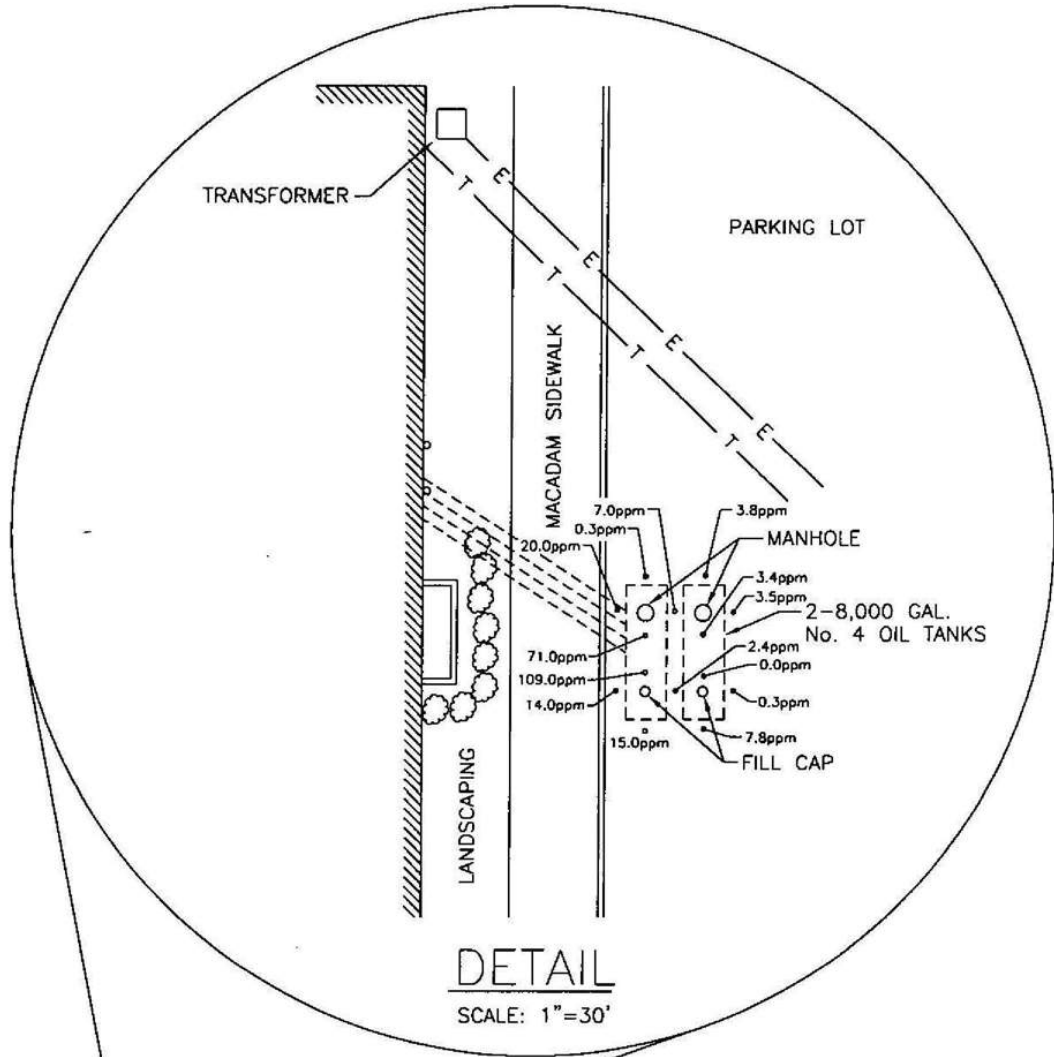
  
\_\_\_\_\_  
Neal B. Personeus  
Environmental Engineering Scientist

JOB NO.: A4365

JOB NAME: Somerset Public Schools

DATE: Sept. 15, 1997

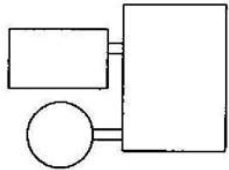
**LIST OF FIGURES**



**NOTE:**

GAS HAS BEEN IDENTIFIED IN THE GENERAL LOCATION OF THE TANK, HOWEVER, THE EXACT LOCATION IS UNKNOWN.

- E - UNDERGROUND ELECTRIC
- T - UNDERGROUND TELEPHONE



BRAYTON AVENUE



**RESOURCE CONTROLS**

The proven solution to your environmental needs.

474 Broadway, Pawtucket, RI 02860  
401 728-6860 Fax 401 727-1849

18 Lincoln Avenue, Scituate, MA 02066  
617 545-3908

**SITE PLAN**

**SOUTH MIDDLE JUNIOR HIGH SCHOOL  
1141 BRAYTON AVENUE  
SOMERSET, MASSACHUSETTS**

SCALE	PROJECT	FILE	FIGURE	REV.
AS SHOWN	A4365 001	4365PLN4	1	1



### User Questionnaire

This "User Questionnaire" has been provided to meet the requirements of the E1527-13 American Society for Testing and Materials (ASTM) document entitled "Standard Practices for Environmental Site Assessments: Phase I Environmental Site Assessment Process". The "User" must provide information (*if available and to the extent feasible*) for six of the questions below (**in bold/italics**) to the environmental professional in order to meet the "all appropriate inquiry" rule. VERTEX has included additional questions to supplement information collected during the performance of the Phase I Environmental Site Assessment. The "User" should provide responses to all of the questions to the extent feasible; however, the "User" is not required to find out information that is not known before returning the questionnaire to VERTEX.

Date: 8-15-17

Site Name: MIDDIE School Your Name: Carlos Campos

Site Location: 1141 Brayton Ave, Somerset

Your Title: Building Supervisor

Relationship to Site (Owner, Occupant, Purchaser, Other): \_\_\_\_\_

Length of Time Associated with Site: 35

Please review and complete this questionnaire which will assist VERTEX in completing our site assessment. If sufficient space is not provided, please complete your response on a separate sheet of paper and attach it to this questionnaire.

**Are there any previous environmental reports that were conducted for the site? (If yes, please provide).**

No

Yes

Oil Tank Removal

**Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law?**

No

Yes (If yes, please described)

**User Questionnaire**

Page 2 of 4

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***Are you aware of any Activity and Use Limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law?***

No       Yes (If yes, please describe)

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***As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?***

No       Yes (If yes, please describe)

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User Questionnaire

Page 3 of 4

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude [or believe] that there is a difference [or that it may not reflect fair market value] have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

[X] No [ ] Yes (If yes, please describe)

Four horizontal lines for providing a description if 'Yes' was selected.

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

- Do you know [or have any information regarding] the past uses of the property? [X] No [ ] Yes (If yes, describe)

Two horizontal lines for providing a description if 'Yes' was selected.

- Do you know of [or have any information regarding any] specific chemicals that are present or once were present at the property? [ ] No [X] Yes (If yes, describe)

oil Tanks Removed IN 1997

- Do you know of [or have information regarding] spills or other chemical releases that have [or may have] taken place at the property? [X] No [ ] Yes (If yes, describe)

Four horizontal lines for providing a description if 'Yes' was selected.

**User Questionnaire**

Page 4 of 4

- **Do you know of** [or have any information regarding] **any environmental cleanups that have taken place at the property?**  No  Yes (If yes, describe)

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- [Do you know of or have any information regarding any fill material that has been brought to the property?]  No  Yes (If yes, describe)

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- [Are there any wastewater treatment operations conducted at the site?]  No  Yes (If yes, describe)

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**As the user of this ESA, based on your knowledge and experience related to the property, are there obvious indicators that point to the presence or likely presence of contamination at the property?**  No  Yes (If yes, please describe)

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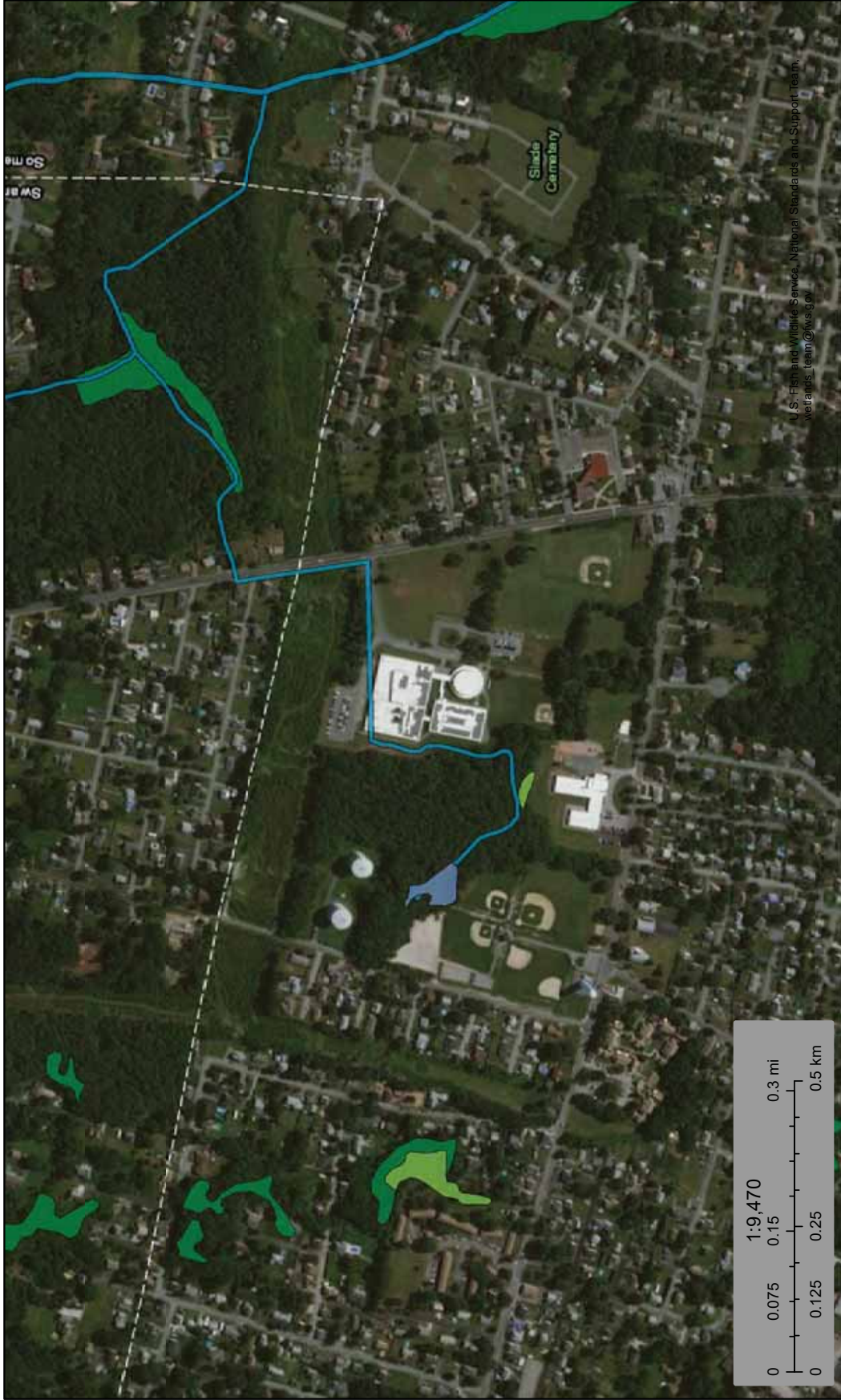
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# Wetland Map



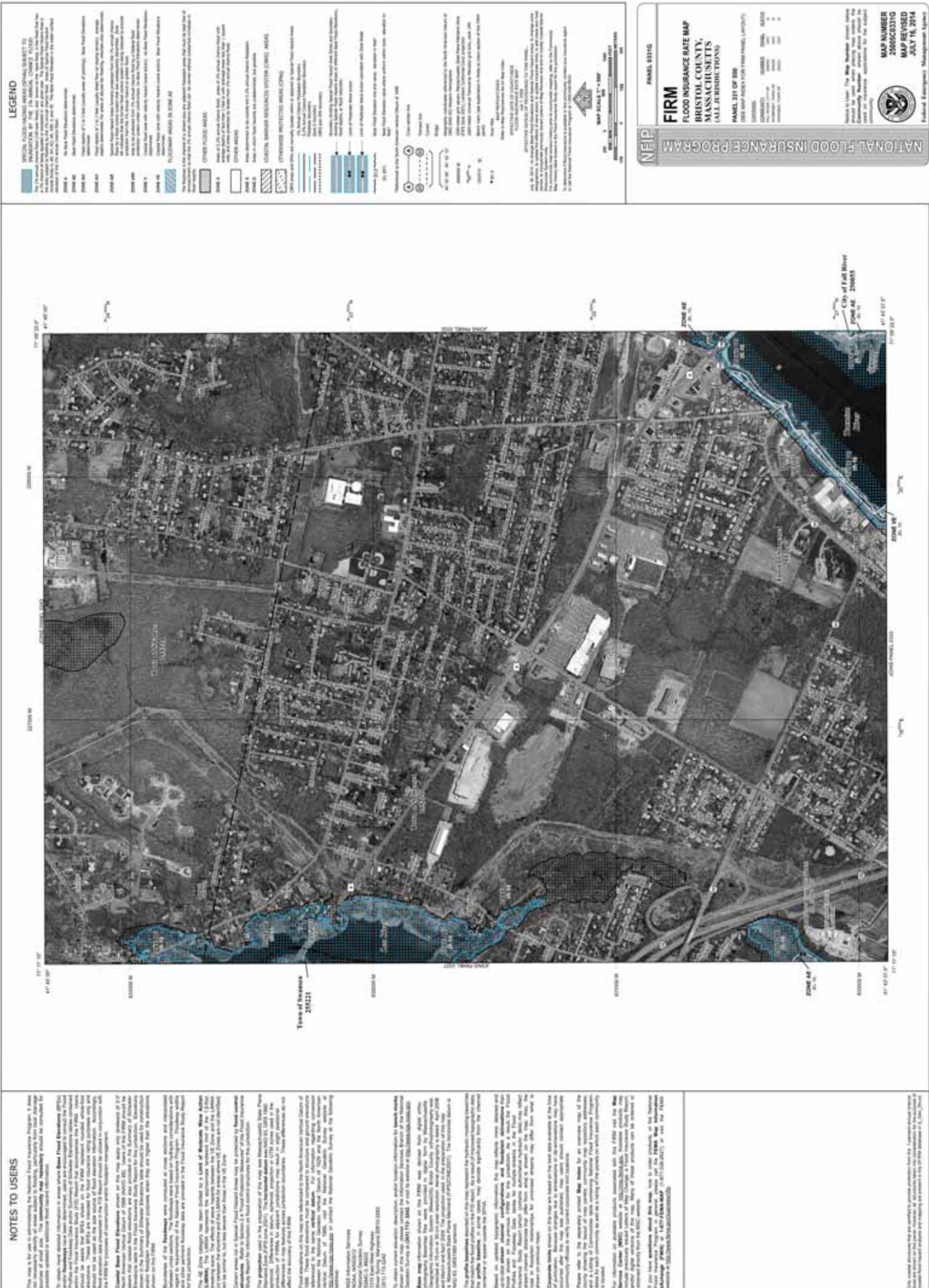
August 9, 2019

## Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)  
This page was produced by the NWI mapper



**APPENDIX C:  
CITY DIRECTORIES**

**Somerset Middle School**

1141 Brayton Avenue  
Somerset, MA 02726

Inquiry Number: 5741137.5  
August 07, 2019

## The EDR-City Directory Image Report



6 Armstrong Road  
Shelton, CT 06484  
800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## TABLE OF CONTENTS

### **SECTION**

**Executive Summary**

**Findings**

**City Directory Images**

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

### **Disclaimer - Copyright and Trademark Notice**

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.



### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2014	☑	☑	EDR Digital Archive
2010	☑	☑	EDR Digital Archive
2005	☑	☑	EDR Digital Archive
2000	☑	☑	EDR Digital Archive
1995	☑	☑	EDR Digital Archive
1992	☑	☑	EDR Digital Archive
1989	☑	☑	Cole Criss-Cross Directory
1985	☑	☑	Cole Criss-Cross Directory



## FINDINGS

### TARGET PROPERTY STREET

1141 Brayton Avenue  
Somerset, MA 02726

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

### BRAYTON AVE

2014	pg A1	EDR Digital Archive
2010	pg A3	EDR Digital Archive
2005	pg A5	EDR Digital Archive
2000	pg A7	EDR Digital Archive
1995	pg A9	EDR Digital Archive
1992	pg A11	EDR Digital Archive
1989	pg A13	Cole Criss-Cross Directory
1985	pg A15	Cole Criss-Cross Directory

# FINDINGS

## CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
<b><u>READ ST</u></b>		
2014	pg. A2	EDR Digital Archive
2010	pg. A4	EDR Digital Archive
2005	pg. A6	EDR Digital Archive
2000	pg. A8	EDR Digital Archive
1995	pg. A10	EDR Digital Archive
1992	pg. A12	EDR Digital Archive
1989	pg. A14	Cole Criss-Cross Directory
1985	pg. A16	Cole Criss-Cross Directory

## **City Directory Images**



-

**BRAYTON AVE 2014**

701	AIMEE ELIZABETH PERRON PT DPT
702	ABSOLUTE DRAIN INC
755	GAIAS BREOWAN INCORPORATED
800	THWAITE, THOMAS W
806	AUGUSTO, KATHLEEN M
824	ATKINSON, ROBERT T MARCEAU, SCOTT R
827	CORREA, JESSE J
836	MACHADO, STACY A
849	CONTI, LISA A
868	OLIVEIRA, DAVID A
886	FISHER, DAVID M
900	GALUSKA, RICHARD M
920	MCINTOSH, STEPHEN P
931	OCCUPANT UNKNOWN,
985	CORREIA, DAVID M & D CORREIAS REALTY LLC
996	ST JOHN OF GOD CHURCH
1084	BOTELHO, RICHARD L
1110	SHEPPARD, TRACY L
1138	LEITE, THERESA
1141	SOMERSET SCHOOL DISTRICT SOUTH CAST EDCTL COLLABORATIVE
1156	FAULKNER, SHERRY A JUSTINSKI, DAVID B VIANA, DAWN
1188	FARIA, CHRISTINA M FARIA, JUVENAL S
1204	AMARANTES, JOHN A HAIR TODAY

Target StreetCross StreetSource

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✓

EDR Digital Archive

**READ ST 2014**

290	MUNICIPAL CLEANING SVCS INC
391	GALVAO, JOSEPH A
398	BROUILLARD, WILLIAM R GAIL BROUILLARD
410	QUITERIO, JESSICA
419	FERREIRA, EDUARDO M
420	MARTIN, DOUGLAS R
430	FREDRICKS, JESSICA
440	JKB BOOKING KENNEY, BRIAN R
441	COSTA, KAREN M
452	DE SOUTO BARBE OCCUPANT UNKNOWN,
467	L&M REAL ESTATE GROUP INC MUSHTAQ, LAILA STOP & PICK INC
472	FONSECA, RICHARD JULIUS, TINA
476	HEALTHY WAY
500	CORREIA & SONS MARKET INC
525	BENEVIDES, FRANK S
549	BENEVIDES, CLAUDIA
579	PARENT, DAVID P
599	MICHAEL, ALU D
617	TRENHOLME, PAUL S
649	MASSA, DOMINICK A
669	LANGLAIS, LORRAINE L
693	RODRIGUES, RAUL M
700	SOMERSET SCHOOL DISTRICT
841	SOMERSET UNITED METHODIST CH



-

**BRAYTON AVE 2010**

702	ABSOLUTE DRAIN INC
755	GAIAS BREOWAN INCORPORATED
800	THWAITE, KEVIN J
806	AUGUSTO, MICHAEL A
824	RACINE, DAVID D
836	SOUSA, LUIS C
868	OLIVEIRA, DAVID A
886	FISHER, DAVID M
900	GALUSKA, RICHARD M
920	MCINTOSH, STEPHEN P
996	LAGOA, RAUL R
	ST JOHN OF GOD CHURCH
1084	BOTELHO, RICHARD T
1110	ALMEIDA, JOSEPH
1138	LEITE, THERESA
1141	SOMERSET SCHOOL DISTRICT
	SOUTH CAST EDCTL COLLABORATIVE
1156	VIANA, DAWN
1188	FARIA, JUVENAL S
	FARIA, SIDNEY J
1204	AMARANTES, JOHN A
	HAIR TODAY

Target StreetCross StreetSource

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✓

EDR Digital Archive

**READ ST 2010**

230	DENNINGS ELIZABETH
270	PERRY MARY
329	MAGONI LOUIS & ESTHER
391	GALVAO, JOSEPH A
398	BILLS HOME REPAIRS
	BROUILLARD, WILLIAM R
419	FERREIRA, EDUARDO M
430	GRANDFIELD, EDWARD P
440	KENNEY, BRIAN R
452	DE SOUTO BARBE
466	INDULGENCE
467	MUSHTAQ, MUHAMMAD
472	FONSECA, RICHARD
476	HEALTHY WAY
500	CORREIA & SONS MARKET INC
525	BENEVIDES, FRANK S
549	BENEVIDES, HORTENSE
579	PARENT, DAVID P
669	LANGLAIS, LORRAINE L
693	RODRIGUES, RAUL M
700	SOMERSET SCHOOL DISTRICT
841	SOMERSET UNITED METHODIST CH



-

**BRAYTON AVE 2005**

800	BOVIE, WARREN W THIBODEAU, ROBERT
806	AUGUSTO, MICHAEL A TORRES, JOHN R
824	RACINE, DAVID R ROMANO, NICK
827	CORREA, TOM
836	MACHADO, STACY A
849	CORREA, EVA
868	OLIVEIRA, DAVID A
886	FISHER, DAVID M
889	DIOGO, EMILIANA M
900	GALUSZKA, RICHARD M
931	ALVARNAS, ROGER J
961	ARRUDA, RAYMOND S
985	CORREIA, GUILHERME
996	LAGOA, RAUL M PEREIRA, LUCIANO J ST JOHN OF GOD CHURCH STJOHN, O
1084	BOTELHO, RICHARD T
1110	BERTHOLD, JOSEPH R
1138	LEITE, RAYMOND
1141	SOMERSET JUNIOR HIGH SCHOOL SOUTH CAST EDCTL COLLABORATIVE
1156	FAULKNER, RICHARD A PEREIRA, NORMAN R
1188	FARIA, JUVENAL S
1204	AMARANTES, JOHN A HAIR TODAY



Target StreetCross StreetSource

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EDR Digital Archive

**READ ST 2005**

329	MAGONI LOUIS & ESTHER
391	GALVAO, JOSEPH A
398	BROUILLARD, WILLIAM R
419	FERREIRA, EDUARDO M
420	MARTIN, DOUGLAS R
430	GRANDFIELD, EDWARD P
440	KENNEY, BRIAN R
441	COSTA, KAREN M
452	CABRAL, TODD M
466	INDULGENCE
467	FURNITURE PLACE INC
	MUHAMMAD, MUSHTAQ D
472	RESTORE THERAPY
476	HEALTHY WAY
	IDR INC
500	CORREIA & SONS MARKET INC
	MARGI CORP
525	BENEVIDES, FRANK S
549	BENEVIDES, FRANK S
579	PARENT, DAVID P
599	MICHAEL, ALU D
617	TRENHOLME, PAUL S
649	MASSA, STEVEN W
669	ZORRA, DORI M
683	CARVALHO, MARY
693	RODRIGUES, RAUL M
700	SOMERSET SCHOOL DISTRICT
821	SOMERSET UNITED METHDST CHURCH



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**BRAYTON AVE 2000**

800	FOSTER, JEFF IZBICKI, MELISSA PERRY, AMANDA THOMAS, DANIELL P
806	AUGUSTO, RUTH A TORRES, JOHN
824	BORGES, MARK WILDING, JOHN
827	CORREA, JESSE
849	CONTI, LISA CORREA, EVA
868	OLIVEIRA, DAVID
886	CHEETHAM, DONALD F
900	GALUSKA, RICHARD
920	GALUSKA, JANE
931	ALVARNAS, ROGER
1084	BOTELHO, RICHARD
1138	LEITE, RAYMOND
1141	SOMERSET JUNIOR HIGH SCHOOL SOUTH CAST EDCTL COLLABORATIVE
1156	BENOIT, MATTHEW J GASS, C PEREIRA, NORMAN R
1188	FARIA, JUVENAL

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EDR Digital Archive

**READ ST 2000**

235	E C DUCY INVESTIGATIONS & SEC
391	GALVAO, JOSEPH A
398	BROUILLARD, WILLIAM R
419	FERREIRA, EDUARDO
425	PONTE, ANNA
430	GRANDFIELD, EDWARD P
441	JAROSZ, ALBERT
452	MELLO, KEITH
466	HAIR IT IS
467	ROESER, ROBERT
472	CORREIA, MICHAEL
476	IDEAL PARTY
500	CORREIA & SONS MARKET INC
549	BENEVIDES, FRANK S
579	D&D BURNER SVC
	PARENT, DAVID
599	DALU, EVA I
669	JUSSEAUME, CLAIRE
	LANGLAIS, OSCAR J
693	RODRIGUES, RAUL
700	SOMERSET SCHOOL DISTRICT
841	SOMERSET UNITED METHDST CHURCH



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**BRAYTON AVE 1995**

800	ANDRADE, PAULA & JOEL COLLINS, PHILLIP A
806	AUGUSTO, R A TORRES, JOHN
824	REBELLO, NORBERT
827	CORREA, JESSE
849	CORREA, E
868	OLIVEIRA, DAVID OLIVEIRA, E C
886	CHEETHEM, DONALD F
900	GALUSKA, RICHARD
920	GALUSKA, JANE
931	ALVARNAS, ROGER
1084	BOTELHO, R & L FURTADO, L
1138	LEITE, RAYMOND
1156	PEREIRA, NORMAN R
1188	FARIA, JUVENAL
1204	HAIR TODAY

Target StreetCross StreetSource

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EDR Digital Archive

**READ ST 1995**

391	GALVAO, JOS A
398	ERNST, ALFRED A
419	FERREIRA, EDUARDO
430	GRANDFIELD, EDW P
441	JAROSZ, ALBERT
452	DYL, ERIC
466	HAIRCUTTERY INC
	STATEWIDE CONSTRUCTION CO
467	CIOSEK, FRANK J
476	FANCY FINGERS
500	CORREIA & SONS MARKET
549	BENEVIDES, FRANK S, JR
579	PARENT, DAVID
599	D'ALU, JOS F
649	MASSA, DOMINICK
	MASSA, STEVEN W
669	PETTINE, TED
	ZORRA, D M
693	RODRIGUES, RAUL
700	SOMERSET SCHOOL DISTRICT
841	SOMERSET UNITED METHDST CHURCH

Target Street

Cross Street

Source

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EDR Digital Archive

**BRAYTON AVE 1992**

1141 SOMERSET SCHOOL DISTRICT

Target StreetCross StreetSource

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EDR Digital Archive

**READ ST 1992**

391	GALVAO, JOS A
398	ERNST, ALFRED A
410	RIGBY, ROBT
419	FERREIRA, EDUARDO
430	GRANDFIELD, EDW P
441	JAROSZ, ALBERT
466	HAIRCUTTERY STATEWIDE CONSTRUCTION CO
467	CIOSEK, FRANK J
500	CORREIA & SONS MARKET
549	BENEVIDES, FRANK S, JR
579	PARENT, DAVID
599	D'ALU, JOS F
617	MARQUIS, GEO J
649	MASSA, DOMINICK MASSA, STEVEN W
669	NAPERT, J & E ZORRA, D M
693	RODRIGUES, RAUL
700	SOMERSET SCHOOL DISTRICT
841	SOMERSET UNITED METHDST CHURCH





READ ST 1989

QUENTAL ST 02726			
Begins 765 Read St Runs Southerly Ends Wald Street			
1- 99 CT6442 9B.D.4			
26	Peter Gossic Jr	75	678-7827
27	Dennis N Robillard	79	676-9625
42	Raymond Passao	81	678-6367
43	John D Souza	88	678-8422
RESIDENCE			
● RANDALL AVE 02726			
Begins 765 Read St Runs Southerly Ends Wald Street			
1- 199 CT6442 9B.D.4			
14	Geo E Fitzgerald	70	673-3023
19	John A Carrero	56	678-8561
NP			
32	David R Knecht	67	674-7550
35	Geo F Barrowclough	62	672-3798
38	Kenneth A Lackey	56	672-2606
49	Charles Gray	81	675-2874
50	Gil Santos	05	678-6424
58	Francis R Sullivan	86	672-4690
84	Joseph I Poite	86	674-3790
100	William W Calder	73	672-7463
101	John Lacava	78	674-9835
111	Steven Lacava	83	679-1384
114	Manoel Costa	87	674-7732
123	William Fortner	84	678-9483
130	Richard P King	78	676-0159
141	Don Morrow	65	678-8575
RESIDENCE			
● RANDOLPH ST 02725			
1- 99 CT6442 9B.D.4			
7	Carol Schwartz	69	672-8257
NP			
10	Ronald Schwartz	69	672-8404
RESIDENCE			
● RANGER RD 02726			
1- 199 CT6441 9A.B.5			
5	Wm Clifton	67	674-8535
12	S F Fitzgerald	75	678-2814
30	Jeffrey Pary	86	678-3264
77	Robert J Simbro	75	678-8597
NP			
98	Alfred Govern	75	674-7192
RESIDENCE			
● RAY ST 02726			
1- 99 CT6441 9A.B.5			
9	David W Malloy	72	674-8408
10	Raymond C Gendreau	71	673-5444
NP			
50	John Fitzsimmons	75	673-6563
72	William T Costa	71	672-9417
RESIDENCE			
● READ ST 02726			
Begins Jct Riverside Avenue & County St Ends Swansea Line			
1- 2099 CT6442 9B.D.4			
15	Henry J Demarco	75	675-7510
20	M Nicholas	87	675-2238
NP			
75	R Dougherty	86	674-5427
108	Allen W Elzore	71	673-2304
NP			
130	Paul Langfield	86	672-2605
NP			
140	Edward J Bernier	73	675-2919
155	George C King Jr	11	674-1910
176	Peter Ciosek	81	678-8619
185	Joseph Kwasnik	87	678-9112
198	Michael A Santos	79	679-3818
208	Franklin E Denning	71	678-7221
209	J Krupa	11	672-1283
NP			
219	Thomas Krupa	71	672-8419
230	John L Mahon	71	675-7180
310	John E Bahret	67	672-0564
312	D T Wells	71	672-7783
285	Arthur Andresen	86	678-0555
270	M C Jolivet	81	672-6974
275	Claude G Plotte	83	678-1156
279	James Robinson	80	674-2955
NP			
290	Antoni F Benevides	78	675-3918
300	Charles McDermott	71	673-5704
326	S F Kennedy	71	679-0383
340	Edward Costa	74	678-8555
354	James T Flannery	71	673-9348
365	Peter F Boardman	85	679-4501
368	Chick Werner	71	672-2255
391	Joseph A Galvao	86	673-1757
398	Alfred A Ernst	71	674-6897
410	Robert Rigby	77	674-7237
430	Edw P Grandfield	71	672-1268
NP			
441	Albert James	71	672-5630
468	The Haircutters	85	676-8950
NP			
472	● Correia & Sons	82	672-7701
NP			
540	F S Benevides Jr	85	676-8947
579	David Parent	75	678-6412
599	Joseph F D'Alu	67	679-6748
617	George J Marquis	79	678-5594
640	Domnick Massa	67	674-8635
NP			
656	● Somerset Clinic	84	674-1970
NP			
669	Doris M Hill	86	674-8773
693	Raul Rodrigues	83	673-9864
700	● South School	82	672-7828
713	Joseph N Abadio	83	674-9575
721	Theresa Medeiros	67	673-8856
763	Eben Sawyer	67	672-6760
767	John T Smith Jr	87	673-2681
821	Riv D Macnech	80	678-8908
NP			
841	● Somerset Adult Cr	11	677-2266
NP			
901	Jesse N Medeiros	73	676-8641
1036	Manoel Ferreira	67	673-8317
1043	George P Cabral	67	673-1288
1059	Edward J Kaylor	67	674-1475
1064	Roland D Maroon	74	678-5360
NP			
1072	Joseph D Lawrence	84	673-1352
NP			
1090	Kevin Henry	85	672-5964
1091	R E Demourville	83	676-8981
1103	Joseph C Traynor	67	673-4202
NP			
1128 Francis E Greeley NP 68 673-3638			
1129 Robert P Bacon Jr 81 676-8794			
1130 M A Gastal 79 672-0917			
Paul Rodgers 86 674-7193			
1158 * J Rs Carl Store 87 672-3158			
1174 E T McClary 67 672-7515			
1177 Robert Buel 11 674-5449			
Dennis Plotte 678-2431			
1185 * Nicks Gearl Hrdwr 11 673-4631			
1193 Robert P Bacon Jr 81 676-8794			
Cynthia Ellis 86 675-7533			
1209 Loreta Perry 67 674-9756			
1217 Mariano Rogers 67 673-3233			
1229 Bruce Levesque 87 675-4217			
1240 Manoel Riego 70 672-8084			
1256 Leopold H Thibault 76 673-5449			
1282 Adjutor Duvallette 69 672-3529			
1283 Manoel Riego 84 674-7652			
1291 Francis P McGuire 67 673-3475			
1306 Ronald Rapozo 78 674-0903			
1319 P Rest 84 674-3721			
1325 Kenneth C Silva 87 676-8663			
1326 John Valera 67 674-4555			
1354 James Ventura 68 674-4937			
1385 John Russell 67 673-6327			
1390 Leonard M Freeman 83 676-9465			
1413 George Lima 67 673-5466			
1429 William Cabral 72 674-9894			
1430 Silvester Motta 72 673-6046			
1444 Angelo Souza 67 673-2000			
1451 Donna Silva 67 672-6742			
1463 Mary R Almeida 67 673-2127			
1476 Jerome M Camara 67 674-5886			
1481 Kenneth A Cwikla 67 675-4635			
1533 Virginia Monteiro 88 673-8423			
1540 Bil Kunnane 86 675-2056			
1545 Robert V Bernard 75 678-8758			
1569 Paul Tavares 85 673-6739			
1749 H B Howarth Jr 67 674-5618			
1752 Michael Smaldone 67 675-5756			
1776 John W Kwasiowski 79 674-5556			
1783 Bernice Anderson 83 674-6247			
1801 Richard Lima 87 676-3054			
1819 NP			
1822 Joseph G Faria 67 674-0272			
1839 NP			
1842 George G Faria 67 678-6637			
Joseph T Faria 85 676-8017			
1864 Donald Farias 80 679-5905			
1873 Louis Cabral 67 673-8866			
Peter Dragon 73 672-3866			
1910 Frank Mazzarella 78 676-8263			
1924 Thomas A Davol Jr 67 678-7705			
Robert H Weedon 67 678-7705			
1944 Israel T Almy 67 672-0413			
1965 Raul Demello 87 675-0804			
1976 M A Brown 86 676-3685			
1987 Victor N Demello 86 674-8071			
1997 John Demello 86 678-1620			
2018 * P Demello & Sons Plmbrg 87 674-0313			
2034 George A Barnes 67 673-7739			
R Barnes 67 673-7739			
2049 Gordon M Guental 74 673-4252			
NO # M C Berman 84 678-9277			
NO # * Somerset Tennant 84 673-5899			
NO # * Somerset Intl Lg 81 672-3356			
NO # * Twin Hoang Auth 83 675-8734			
RESIDENCE			
12 BUSINESS			
● REAGAN RD 02726			
From Chase Street To Dead End			
1- 958 CT5441 9A.B.5			
NP			
33 F A Margarida 65 674-0902			
53 NP			
70 Joseph Medeiros 68 672-4540			
75 James H Newton 65 673-3124			
97 Neil R Gregory 67 678-5163			
119 Michl J Margaletta 66 673-1152			
124 Rolando Cavaco 84 673-0948			
151 Jose Maniz 86 676-0366			
154 * Dianas Beauty Cmr 77 678-7888			
Norman Menard 72 678-4762			
205 Paul J Milano 85 677-3727			
225 James P Stroks 83 675-3110			
230 * Bernard Saklad Lyr 68 674-8694			
245 Richard S Mullen 75 678-0189			
252 Augustine Costa Jr 79 674-0757			
Nicholas Daganmo 71 676-8993			
NP			
265 Kenneth J Beaulieu 73 676-1752			
285 David A Jennings 77 676-0534			
294 Frank Kostek 84 674-7506			
305 Geo H Broderer Jr 66 672-2880			
NP			
326 Gerard Gendreau 83 676-3690			
Joseph R Camara 83 672-1209			
345 S L Hathaway Jr 72 673-2520			
385 Alvarinho S Mello 76 672-6029			
405 NP			
481 Frank W Prystac 66 674-1967			
511 Gerald Sears 75 673-5780			
528 Joseph Correia 84 674-3924			
531 Edward R Casper 67 673-5404			
559 John N Daly 80 674-2578			
NP			
574 Robt Pimentel 87 672-4928			
602 John T Steele 86 678-2349			
622 Nichl L Demourville 86 678-3647			
627 Alfred J Bernier 89 673-8685			
Eric Ferreira 82 672-1941			
650 Paul Patten 11 677-0347			
NP			
671 J Grace 11 678-5976			
720 George H Jones 71 672-6726			
George H Jones 74 676-8678			
725 David Aruda 11 674-7548			
* E Coast Mchs Weld 87 679-9311			
773 Paul J Doucette 66 676-1492			
782 David Fazzina 85 675-9849			
801 Donald C Thibault 71 674-9407			
NP			
802 Allan B Evans 76 674-2505			
822 B Caubrier 67 678-3743			
842 E R Hazara 82 676-1306			
862 David A Costa 84 674-1309			
871 R J Graham Jr 72 675-7696			
895 David G Lowmyr 84 672-2472			
918 Joaquin F Alves 73 673-8003			
938 L Leandre Berard 74 673-5126			
L L Berard 87 673-5126			
958 * T Almy Assoc 76 672-3962			
Thomas B Almy 72 674-5061			
NO # Arnold R Rosenberg 79 678-7268			
57 RESIDENCE			
4 BUSINESS			

BRAYTON AVE 1985

Table with columns: Address, Name, Phone Number. Includes sections for 6 FALL RIVER, BRAYTON POINT RD, BRAYTON AVE, BRAYTON RT, BREALT ST N, and BREALT ST S.

## READ ST      1985

SE 84	COLE CROSS	1985-1986 FA
700 James A Isherwood 56 672-3821		440 NP
<b>740 Electro Systems</b> 673-3447		441 Albert Jarosz 71 672-5630
Paul E Petit 76 679-3084		<b>488 Lees House of Bty</b> 674-5788
687 Simon Goldberg 56 679-8804		472 NP
935 Stephen T Moore 77 673-7636		<b>478 Jacks Fmly Variety</b> 678-9699
940 Paul A Dumais Jr 77 674-1864		<b>600 Correia &amp; Sons</b> 672-7701
952 M T Fraze 73 675-2489		549 F S Benevides Jr 68 676-8947
959 NP		579 David Parent 75 678-8412
966 Mrs Sylvia Lechan 63 673-8713		599 Joseph F D'Alu 67 679-5748
984 Fernand P Letendre 81 673-6670		617 George J Marquis 79 678-5994
985 John F Kenyon 69 673-6031		648 Dominick Massa 67 674-8635
1021 Edgar St Pierre 83 675-2276		<b>686 Somerset Clinic</b> 674-1970
1028 S Schenker Spa 88 679-1324		D M Zora 76 675-3027
1031 Charles G Patoquin 56 672-2442		693 Raul Rodrigues 83 673-9864
1046 Carl Sahady 79 678-7679		<b>700 South School</b> 672-7828
1047 Edward A Myles Jr 80 674-4063		719 Joseph N Abello 83 674-9575
1067 J E Leonard 68 678-6840		731 Theresa Medeiros 67 673-9854
1081 Edwin Plant Jr 73 673-3596		763 Eben Sawyer 67 672-6760
1086 Farron Howard 63 672-6643		767 NP
1146 Ernest E Mauretti 56 674-2663		821 Rev D McAninch 80 678-8806
David L Ward 70 673-6394		Robert Moog 67 672-2188
1153 Leonard Cabeciras 80 673-0867		<b>Somerset United</b> 678-8806
53 RESIDENCE 1 BUSINESS		901 Jesse N Medeiros 73 676-8641
		905 Michael B Bertrand 73 673-8485
<b>RAY ST</b> 02726		1036 Manuel Ferrera 67 679-8317
Somerset		Gustavo Raposo 73 679-8436
1- 99 T26441 9A.B.5		1043 George P Cabral 67 673-1288
9 David W Molloy 72 674-6408		1058 Edward J Kaylor 67 674-1475
10 Raymond C Gaudreau 71 673-5444		1064 Roland D Marcoux 74 678-5380
30 Victor Derenzo 77 678-7968		1079 1080 NP
50 John Fitzsimmons 75 673-6583		1081 Joseph D Lawrence 67 673-1362
72 William T Costa 71 672-6417		1031 R E Damouraville 63 676-8881
5 RESIDENCE		1104 Joseph C Traynor 67 673-4202
		1128 Joseph Lavoie 69 672-6746
<b>READING ST</b> 02720		Jeanne Wamboldt 67 675-5933
Begins South of		1129 Francis E Greeley 68 673-3838
Langley Street		1130 M A Gestal 78 672-0917
Ends North of		<b>1158 Jays Market</b> 672-3159
Valentine Street		1174 E T McClary 67 672-7515
1- 581 T26423 9B.C10		1175 Karen M Amara 67 672-3889
66 Harry E Yoken 57 672-6182		<b>1185 Arruda Howe Store</b> 673-4631
128 Morris Lovit 57 673-3558		<b>Darruda Hardware</b> 673-4631
150 Fernando C Lopes 82 676-0649		1193 Robert P Bacon Jr 81 676-8794
178 M A Curt 71 676-9108		1209 Paul Bradbury 67 678-9179
276 Eflen D Cruz 78 678-6035		Loretta Perry 67 674-9758
339 Edward M Travis 76 672-8585		1217 Mariano Rogers 67 673-3233
344 Jeremiah J Lowney 80 673-5211		1229 Edward Parent 72 678-7031
349 S J Mazzarella 70 679-1419		1240 Manuel Rego 67 672-8084
357 371 NP		1255 Leopold Thibault 76 673-5449
381 George D Kelly 68 673-9020		1282 Adjutor Ouellette 69 672-3529
405 NP		1283 Manuel Rego 67 674-7652
421 Jan Pietraszek 74 672-2103		1306 Ronald Raposa 76 674-0903
422 Tom Norton 72 674-0804		1319 P Reis 67 674-3721
433 Peter F Mrok 59 673-7470		1326 John Valerio 67 674-4555
434 NP		1354 James Ventura 68 674-4537
445 Thomas G Sheehan 56 673-2590		1385 John Russell 67 673-6327
483 R Brocklehurst 62 673-1286		1390 Leonard M Freeman 83 676-9485
498 Edmund W Hussey 83 672-2668		1413 George Lima 67 678-0466
501 F Beckett Jr 63 678-9634		1429 William Cabral 72 674-9854
525 Peter D Lapaig 82 676-3151		1430 Silvester Motta 72 673-5046
554 Sanford M Horvitz 78 679-0718		1444 Angelo Souza 67 673-2000
22 RESIDENCE		1451 Serafim F Silva 67 673-8742
		1463 Mary R Almeida 67 673-2127
<b>READ ST</b> 02720		Jeff L Pimental 83 674-6821
Begins New Bolton		1476 Jerome M Camara 67 674-5898
Rd Ends President		1481 1533 1540 NP
Avenue		1545 Robert V Bernard 75 678-8758
1- 499 T26424 9C.C11		1569 William F Almeida 83 672-7340
22 Stephen B Terceira 78 672-8541		1749 H B Howarth Jr 67 674-5678
34 M T Silva 78 674-1539		1752 Antone Camara 67 673-8746
<b>35 Amcon Scurty Agency</b> 672-1273		1776 John W Kwasniewski 79 674-5558
Claudette Raposa 79 673-1714		C M Medeiros 67 678-5129
36 Jose Botelho 67 672-5098		Bernice Anderson 83 674-6247
48 Mary A Dunn 59 674-2129		1819 NP
58 William Hecking 56 673-4951		Joseph G Faria 67 674-0272
65 Thomas A O'Donnell 56 673-0536		1822 NP
87 P F Walstenholme 83 674-7571		1839 NP
92 Robert E Sowersby 69 678-8820		1842 George G Faria 67 678-6637
101 Chet Bednarz 79 673-7102		1884 Donald Farias 80 679-5905
111 Peter Patos 81 675-1098		1873 Louis Cabral 67 673-8666
128 Kenneth Haradon 65 672-1509		Peter Dragon 79 672-3866
<b>Natalies Wig Wam</b> 672-1509		1910 Frank Mazzarella 76 678-8283
Kia S Cox 67 673-7225		1924 Thomas A Davol Jr 67 678-7705
138 Ursula M Riley 66 678-9628		Robert H Wexden 67 678-7705
147 Paul Sperling 83 678-8444		1944 Israel T Almy 67 672-0413
182 NP		1976 NP
194 Joseph R Delaney 67 672-3502		2034 George A Barnes 67 673-7739
214 William R Jocas 72 678-2051		R Barnes 67 673-7739
275 James Robinson 80 674-2595		2049 Gordon M Quental 74 679-4252
<b>NO # Holy Name School</b> 674-9131		NO # M C Borkman 678-9227
19 RESIDENCE 3 BUSINESS		NO # Somerset Tennant 673-5899
		NO # Somerset Lit League 672-2396
<b>READ ST</b> 02726		120 RESIDENCE 11 BUSINESS
Begins Jct		
Riverside Avenue &		<b>REAGAN RD</b> 02726
County St Ends		From Chase Street
Swansea Line		To Dead End
Somerset		Somerset
1- 2099 T26442 9B.D.4		1- 998 T26441 9A.B.5
15 Henry J Demarco 75 675-7570		33 F A Marganda 65 674-0902
20 Mrs Mary E Kasher 71 674-7821		63 NP
75 Laurinda Fontes 67 676-9532		70 Joseph Medeiros 88 672-4540
88 George W Renaud 67 678-7411		75 James H Newton 65 673-3124
96 D T Fontes 67 674-8770		97 Neil R Gregory 67 678-5163
Kevin McGuire 67 676-8117		119 M J Margaleta 66 673-1152
109 Allen W Eisbree 71 673-2304		134 Rolando Cavaco 67 673-0948
120 130 140 NP		151 Julio Docoyto 72 672-0079
155 Edward J Bernier 73 675-3915		<b>184 Dames Beauty Cntr</b> 678-7888
187 George C King Jr 71 674-1910		Norman Menard 72 678-4782
Marion M King 71 674-1910		205 Daniel L Simmons 86 678-1664
176 Peter Ciosek 81 678-8618		225 James P Stroke 83 678-3710
185 John F Burns 74 672-3039		230 B Saklat Aty 88 674-8684
196 Michael A Santos 79 679-3518		245 Mary E Mullen 83 678-0054
208 Franklin E Denning 71 678-7221		Richard S Mullen 75 678-0189
209 Thomas Krupa 71 672-8419		252 Augustine Costa Jr 79 674-0757
219 John L Mahon 71 675-7180		Nicholas Diggammo 71 676-8993
230 D T Wells 71 672-7783		Raul Silva 81 675-2607
265 Robert Guimond 77 673-4201		272 Kenneth J Beaulieu 73 676-1752
M C Jolivet 81 672-8874		285 David A Jennings 77 676-0534
Claude G Pilotte 83 678-1156		Frank Katak 84 674-7806
275 NP		305 G H Brodeur Jr 66 672-2880
290 Joseph H Nadeau 71 673-1347		326 NP
300 Antone F Benevides 78 675-3918		327 Gerard Gendreau 83 676-3690
Charles McDermott 71 673-5704		Joseph Camara 83 672-1205
326 A F Kennedy 71 679-0383		365 S L Hathaway Jr 72 673-2520
346 Edward Costa 74 678-6955		385 Alvarinho S Mello 76 672-6029
358 James T Finnerty 71 673-9048		405 NP
365 G G Blanchette 81 678-5714		461 Frank W Prystac 66 674-1987
Antonio B Paiva 80 673-4649		511 Gerald Sears 75 673-5780
368 Chick Weiner 71 672-2255		528 Joseph Correia 67 674-3924
398 Alfred A Ernst 71 674-6937		531 Edward R Casper 67 673-6404
410 Robert Rigby 77 674-1237		569 John N Daly 80 674-2378
430 E P Grandfield 71 672-1268		574 NP

NOT BE KEY PUNCHED ENTERED INTO A COMPUTER OR PHOTOGRAPHED IN ANY MANNER WHATSOEVER

**APPENDIX D:  
AERIAL PHOTOGRAPHS**

**Somerset Middle School**

1141 Brayton Avenue

Somerset, MA 02726

Inquiry Number: 5741137.8

August 06, 2019

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

**EDR Aerial Photo Decade Package**

08/06/19

**Site Name:**

Somerset Middle School  
1141 Brayton Avenue  
Somerset, MA 02726  
EDR Inquiry # 5741137.8

**Client Name:**

The Vertex Companies, Inc.  
400 Libbey Parkway  
Weymouth, MA 02189-0000  
Contact: Nicollette Lynch



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1995	1"=500'	Acquisition Date: March 29, 1995	USGS/DOQQ
1991	1"=750'	Flight Date: April 04, 1991	USGS
1986	1"=500'	Flight Date: March 30, 1986	USDA
1980	1"=500'	Flight Date: April 07, 1980	USGS
1977	1"=1000'	Flight Date: April 01, 1977	USGS
1970	1"=500'	Flight Date: October 06, 1970	USDA
1966	1"=500'	Flight Date: February 22, 1966	USGS
1960	1"=500'	Flight Date: May 01, 1960	USGS
1952	1"=500'	Flight Date: October 12, 1952	USDA
1941	1"=500'	Flight Date: October 24, 1941	USGS
1938	1"=500'	Flight Date: December 13, 1938	USGS

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INQUIRY # 5741137.8

YEAR: 2016

— = 500'





INQUIRY #: 5741137.8

YEAR: 2012

— = 500'









INQUIRY # 5741137.8

YEAR: 2006

— = 500'





INQUIRY #: 5741137.8

YEAR: 1995

— = 500'









INQUIRY #: 5741137.8

YEAR: 1980

— = 500'





INQUIRY #: 5741137.8

YEAR: 1977

— = 1000'









INQUIRY #: 5741137.8

YEAR: 1966

— = 500'



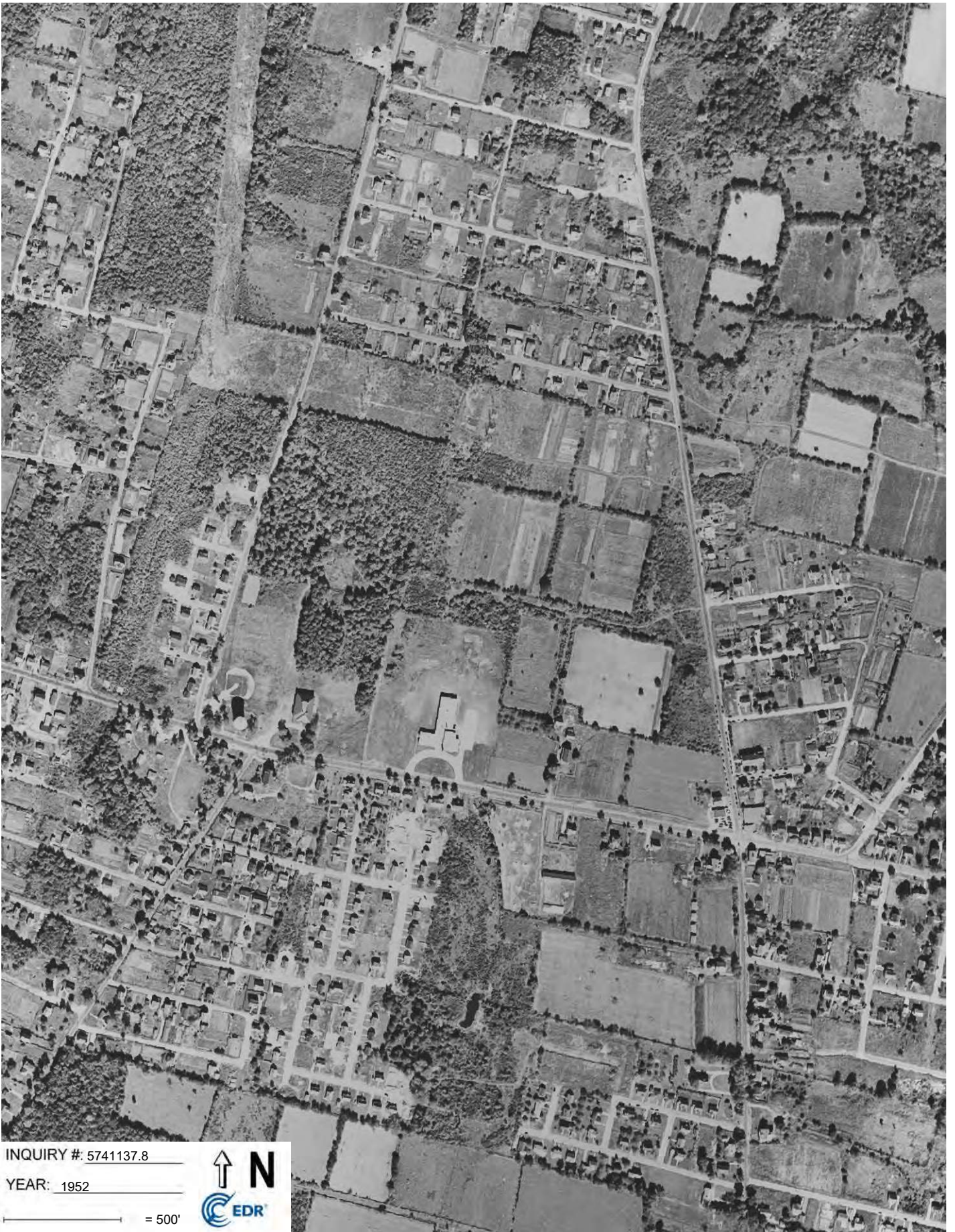


INQUIRY #: 5741137.8

YEAR: 1960

\_\_\_\_\_ = 500'





INQUIRY # 5741137.8

YEAR: 1952

— = 500'



INQUIRY #: 5741137.8

YEAR: 1941



= 500'





INQUIRY #: 5741137.8

YEAR: 1938

— = 500'



**APPENDIX E:  
TOPOGRAPHIC MAPS**

Somerset Middle School  
1141 Brayton Avenue  
Somerset, MA 02726

Inquiry Number: 5741137.4  
August 05, 2019

# EDR Historical Topo Map Report with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

**EDR Historical Topo Map Report**

08/05/19

**Site Name:**

Somerset Middle School  
 1141 Brayton Avenue  
 Somerset, MA 02726  
 EDR Inquiry # 5741137.4

**Client Name:**

The Vertex Companies, Inc.  
 400 Libbey Parkway  
 Weymouth, MA 02189-0000  
 Contact: Nicollette Lynch



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by The Vertex Companies, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:**

**P.O.#** NA  
**Project:** NA

**Coordinates:**

**Latitude:** 41.738279 41° 44' 18" North  
**Longitude:** -71.165099 -71° 9' 54" West  
**UTM Zone:** Zone 19 North  
**UTM X Meters:** 319953.83  
**UTM Y Meters:** 4622983.56  
**Elevation:** 149.14' above sea level

**Maps Provided:**

2012	1893
1985	1888
1979	
1967	
1949	
1948, 1949	
1944	
1943, 1944	

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### Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

#### 2012 Source Sheets



Fall River  
2012  
7.5-minute, 24000



Somerset  
2012  
7.5-minute, 24000

#### 1985 Source Sheets



Somerset  
1985  
7.5-minute, 25000  
Aerial Photo Revised 1980



Fall River  
1985  
7.5-minute, 25000  
Aerial Photo Revised 1980

#### 1979 Source Sheets



Fall River  
1979  
7.5-minute, 24000  
Aerial Photo Revised 1977

#### 1967 Source Sheets



Somerset  
1967  
7.5-minute, 24000  
Aerial Photo Revised 1966



Fall River  
1967  
7.5-minute, 24000  
Aerial Photo Revised 1966

### Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

#### 1949 Source Sheets



Fall River  
1949  
7.5-minute, 31680

#### 1948, 1949 Source Sheets



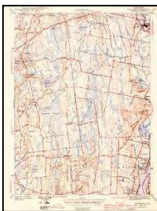
Somerset  
1948  
7.5-minute, 24000

#### 1944 Source Sheets



FALL RIVER  
1944  
7.5-minute, 25000

#### 1943, 1944 Source Sheets



Somerset  
1943  
7.5-minute, 31680



Fall River  
1944  
7.5-minute, 31680

**Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

**1893 Source Sheets**

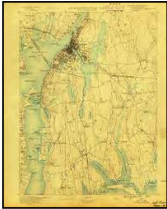


Taunton  
1893  
15-minute, 62500



Fall River  
1893  
15-minute, 62500

**1888 Source Sheets**



Fall River  
1888  
15-minute, 62500



Taunton  
1888  
15-minute, 62500

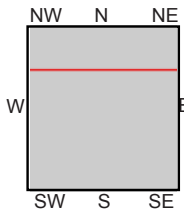
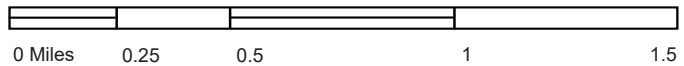


# Historical Topo Map

2012



This report includes information from the following map sheet(s).



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N, Somerset, 2012, 7.5-minute

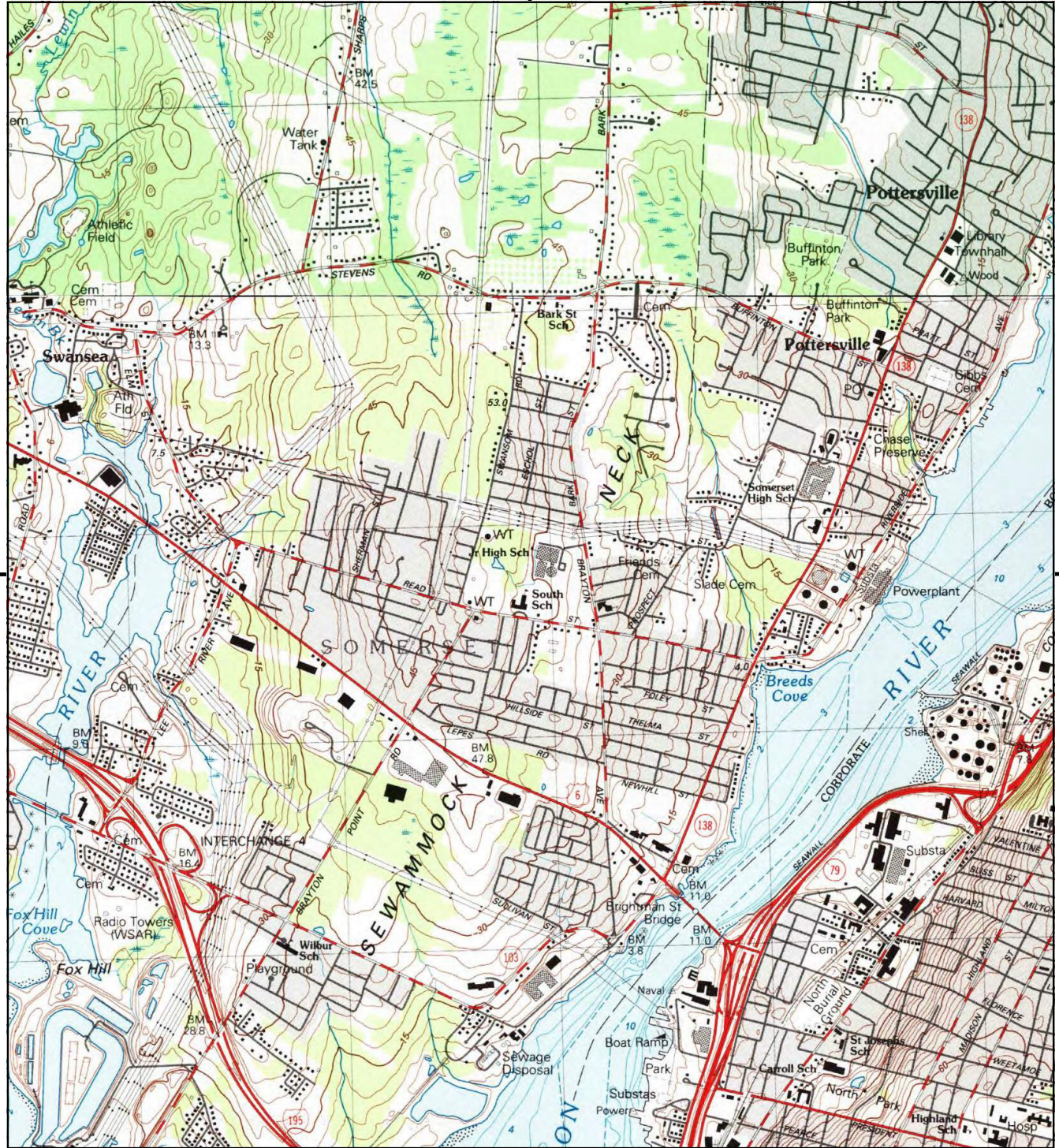
SITE NAME: Somerset Middle School  
ADDRESS: 1141 Brayton Avenue  
Somerset, MA 02726  
CLIENT: The Vertex Companies, Inc.



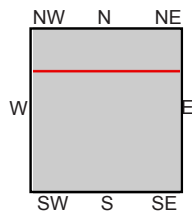
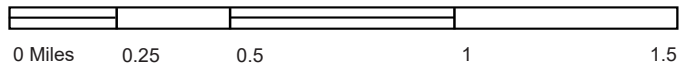


# Historical Topo Map

1985



This report includes information from the following map sheet(s).



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N, Somerset, 1985, 7.5-minute

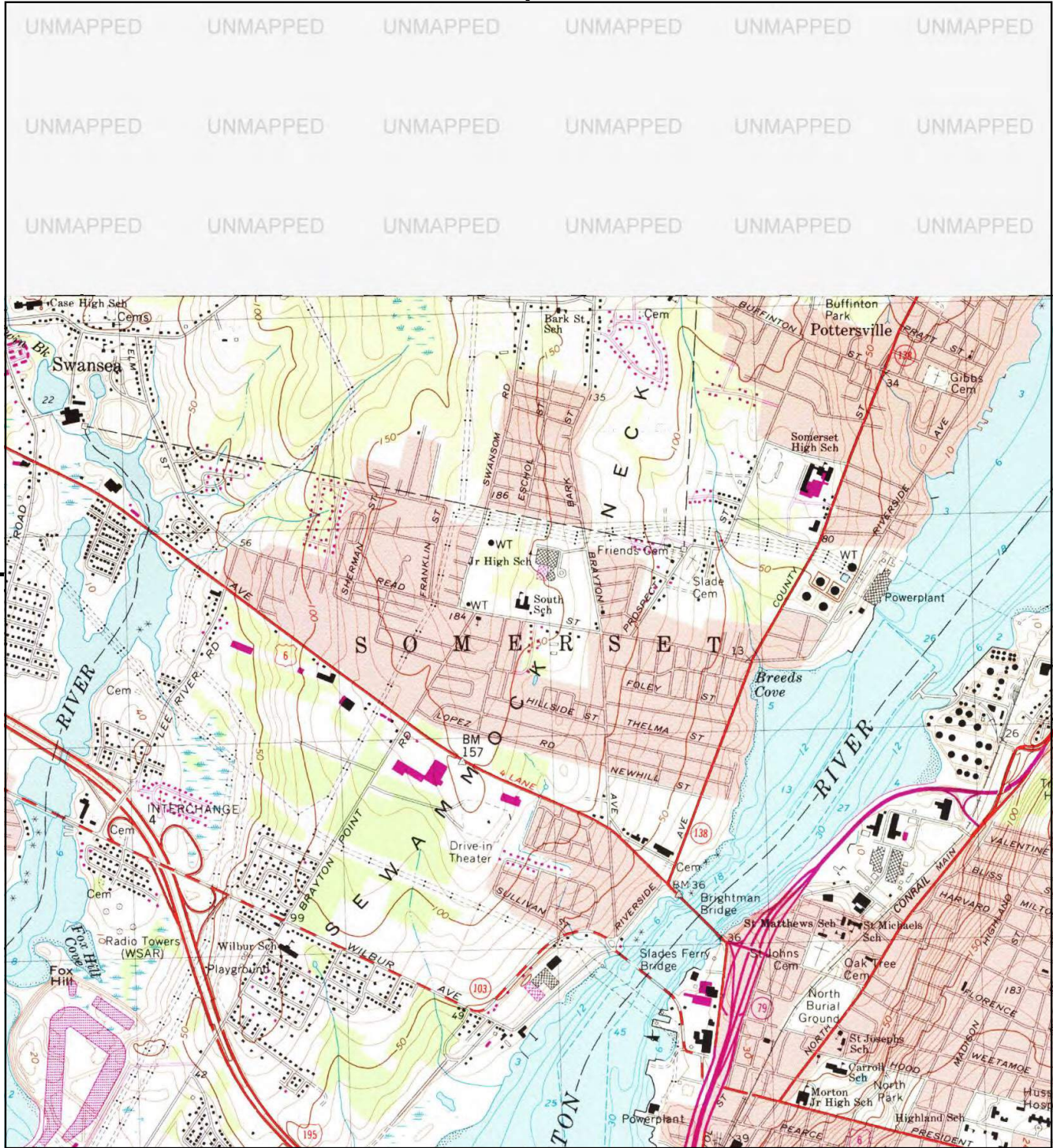
**SITE NAME:** Somerset Middle School  
**ADDRESS:** 1141 Brayton Avenue  
Somerset, MA 02726  
**CLIENT:** The Vertex Companies, Inc.



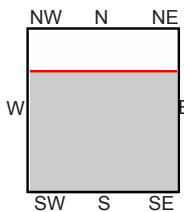
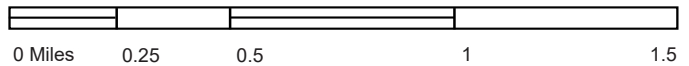


# Historical Topo Map

1979



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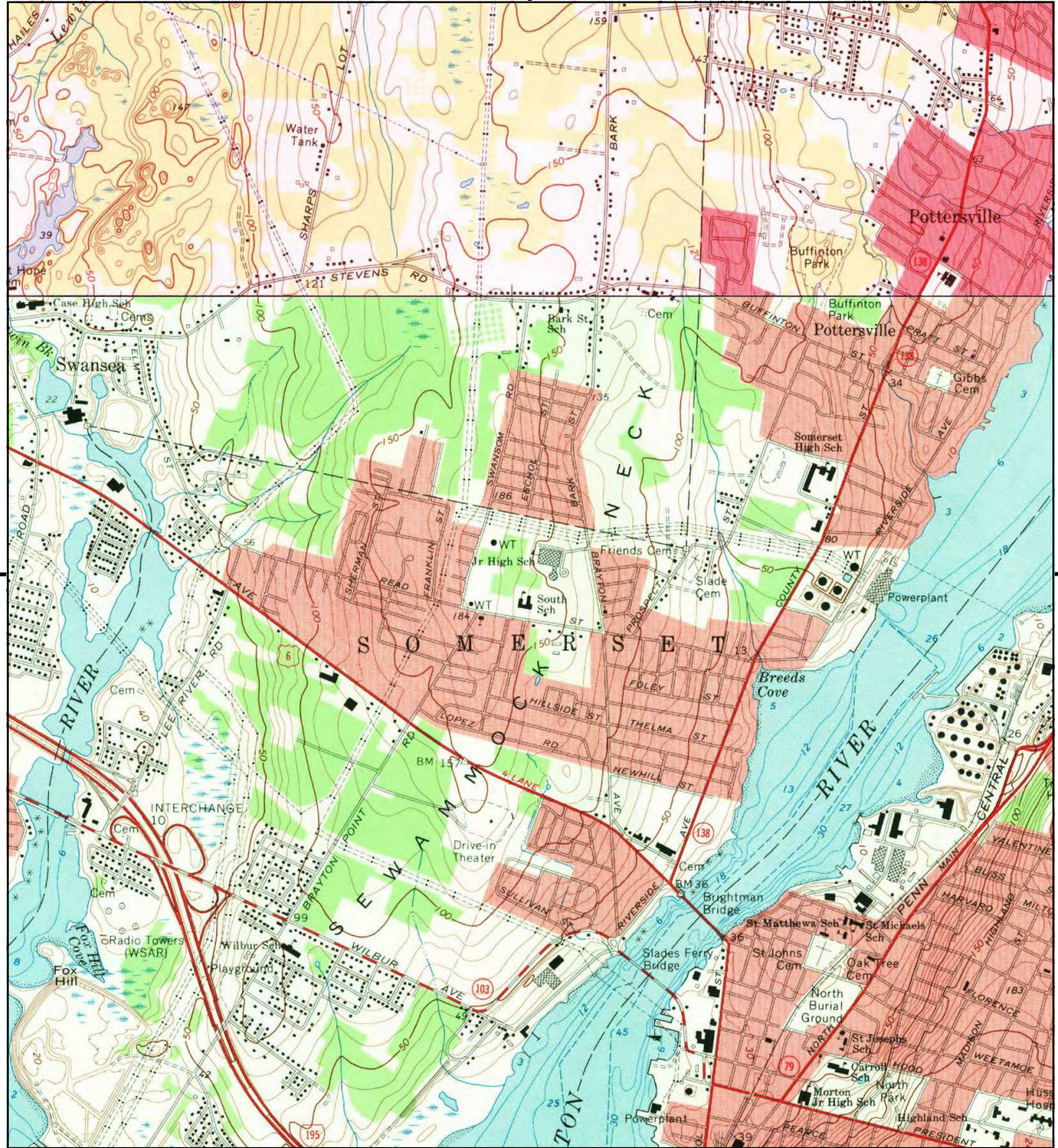
SITE NAME: Somerset Middle School  
 ADDRESS: 1141 Brayton Avenue  
 Somerset, MA 02726  
 CLIENT: The Vertex Companies, Inc.



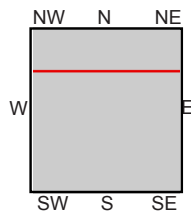
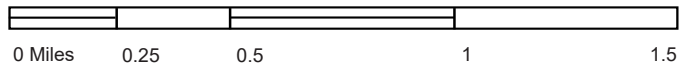


# Historical Topo Map

1967



This report includes information from the following map sheet(s).



TP, Fall River, 1967, 7.5-minute  
N, Somerset, 1967, 7.5-minute

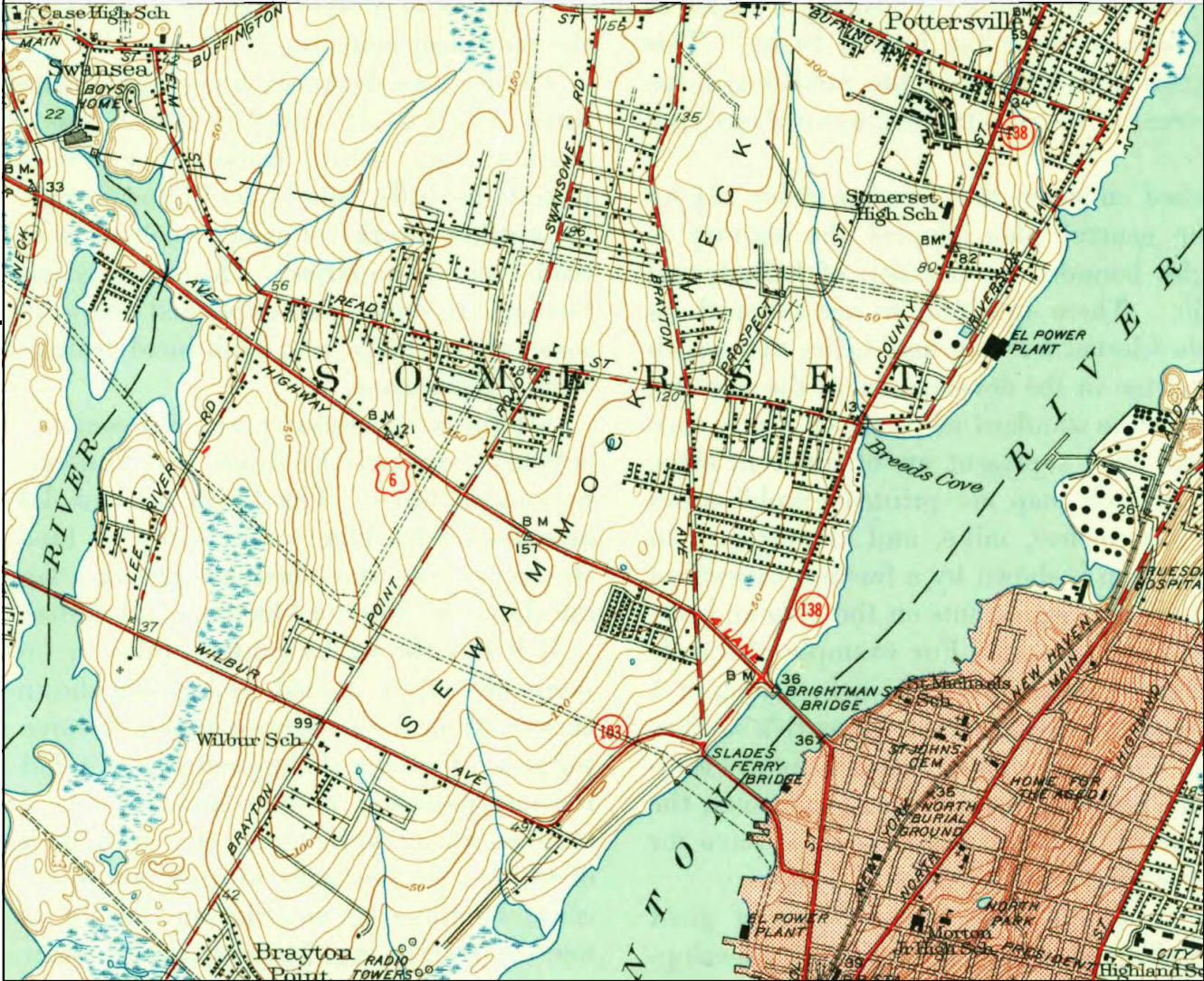
SITE NAME: Somerset Middle School  
ADDRESS: 1141 Brayton Avenue  
Somerset, MA 02726  
CLIENT: The Vertex Companies, Inc.



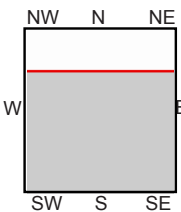
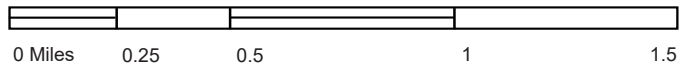


# Historical Topo Map

1949



This report includes information from the following map sheet(s).



TP, Fall River, 1949, 7.5-minute

SITE NAME: Somerset Middle School  
 ADDRESS: 1141 Brayton Avenue  
 Somerset, MA 02726  
 CLIENT: The Vertex Companies, Inc.

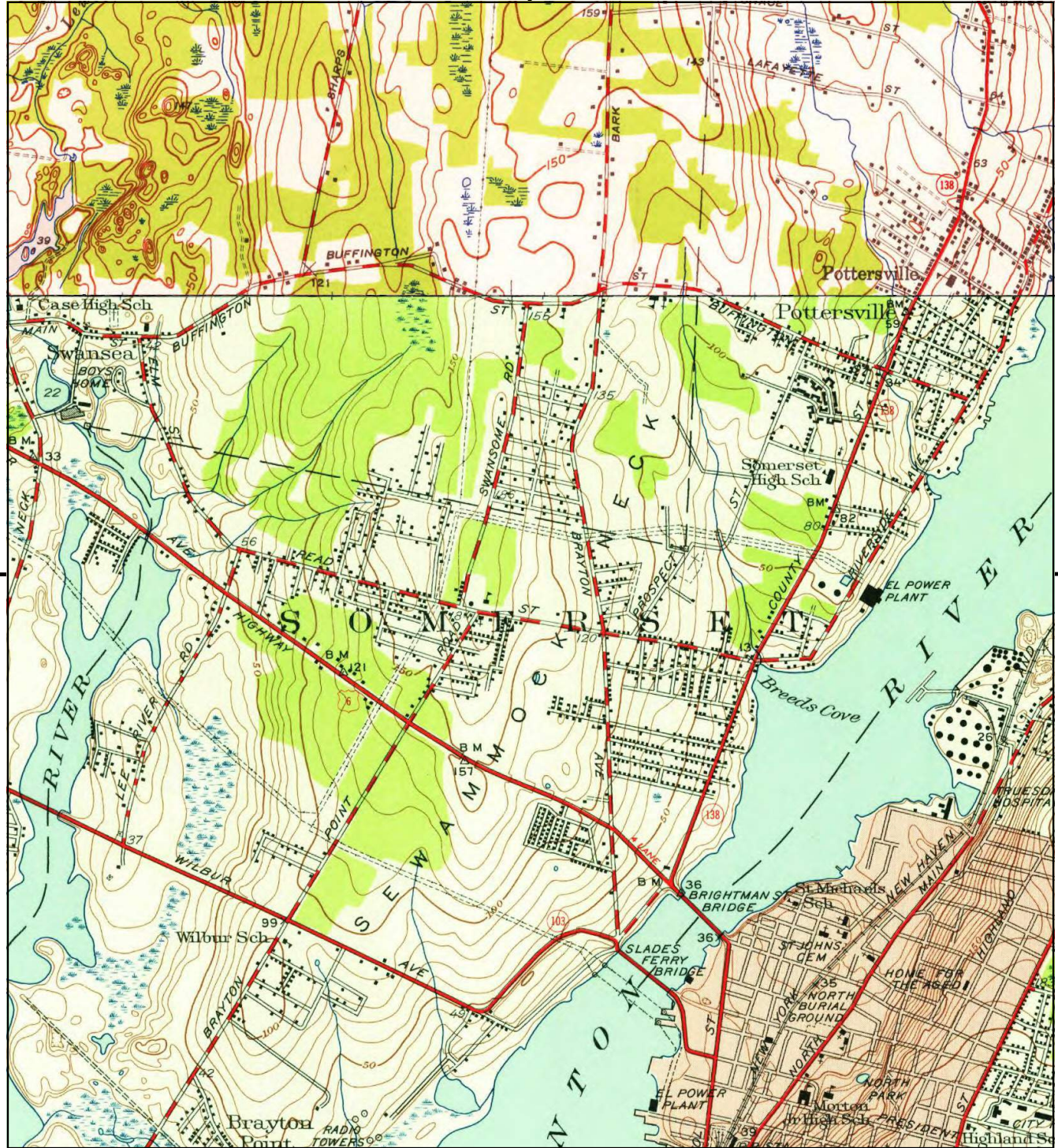




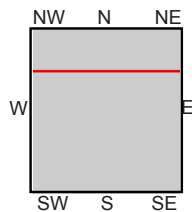


# Historical Topo Map

1948, 1949



This report includes information from the following map sheet(s).



TP, Fall River, 1949, 7.5-minute  
N, Somerset, 1948, 7.5-minute

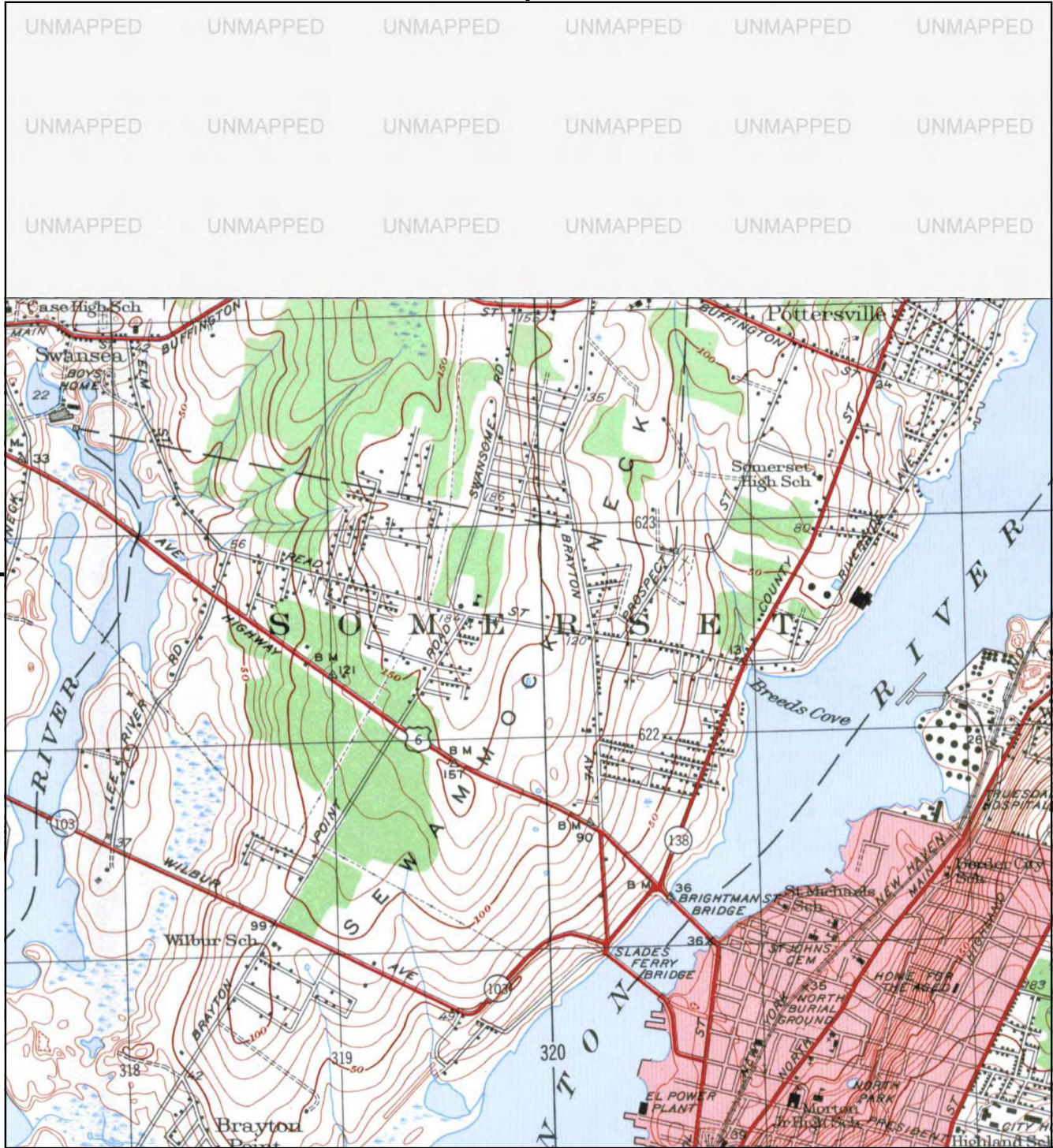
SITE NAME: Somerset Middle School  
ADDRESS: 1141 Brayton Avenue  
Somerset, MA 02726  
CLIENT: The Vertex Companies, Inc.



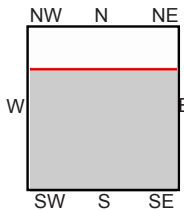
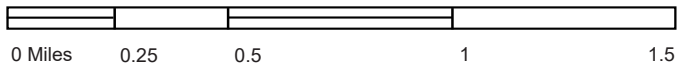


# Historical Topo Map

1944



This report includes information from the following map sheet(s).



TP, FALL RIVER, 1944, 7.5-minute

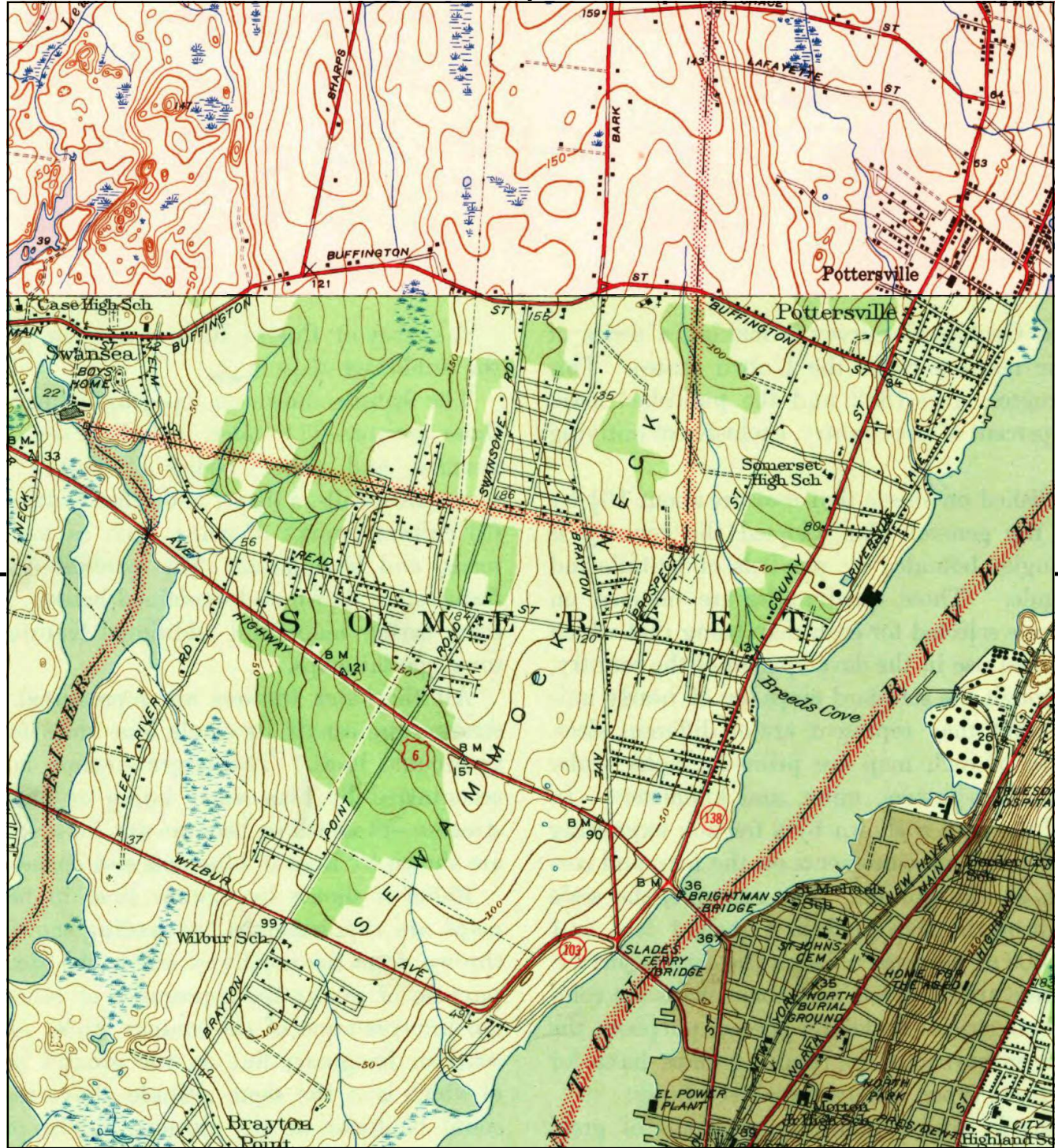
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 ADDRESS: 1141 Brantley Avenue  
 Somerset, MA 02726  
 CLIENT: The Vertex Companies, Inc.



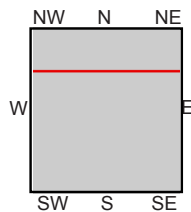
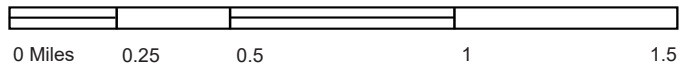


# Historical Topo Map

1943, 1944



This report includes information from the following map sheet(s).



TP, Fall River, 1944, 7.5-minute  
 N, Somerset, 1943, 7.5-minute

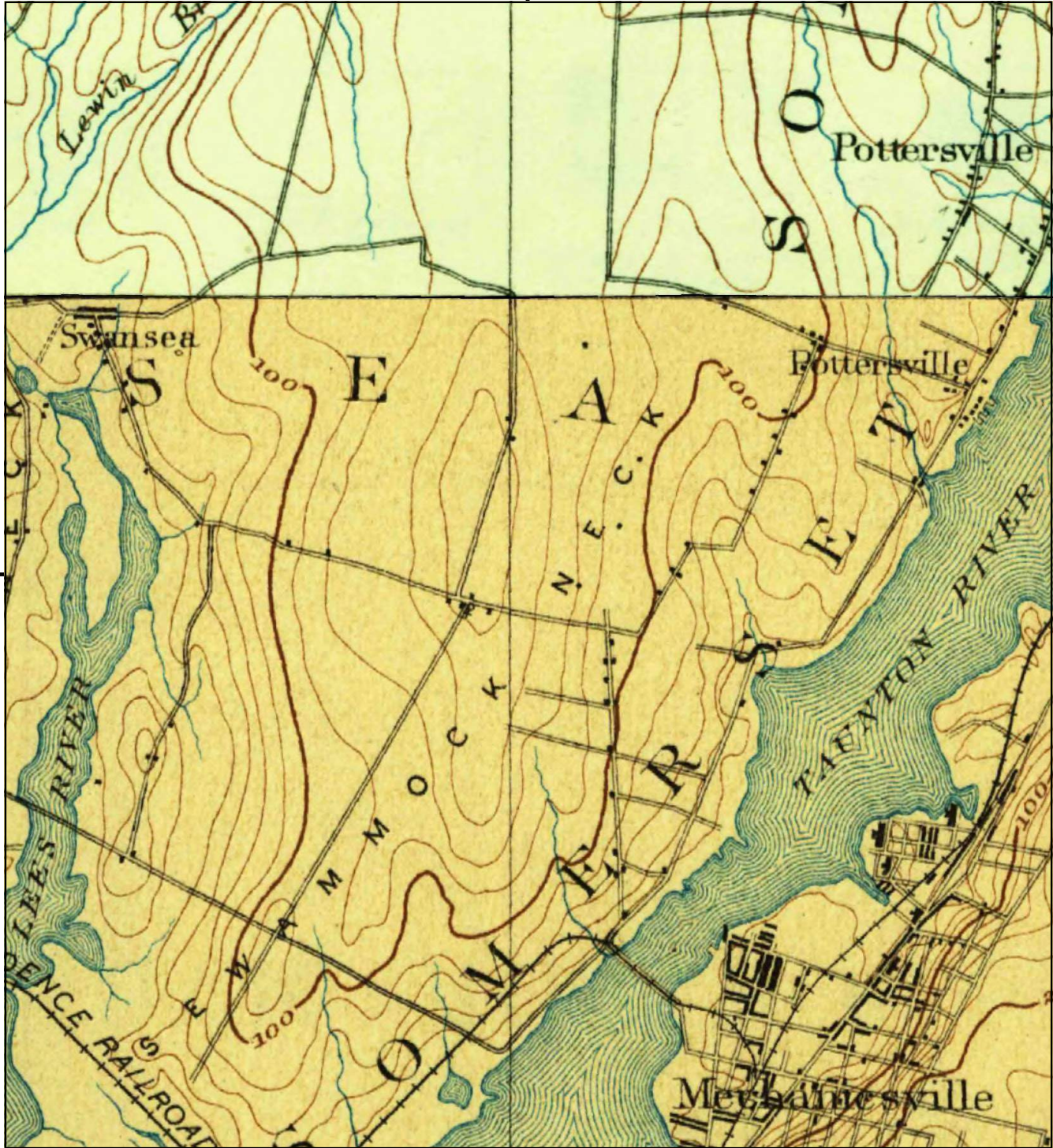
SITE NAME: Somerset Middle School  
 ADDRESS: 1141 Brayton Avenue  
 Somerset, MA 02726  
 CLIENT: The Vertex Companies, Inc.



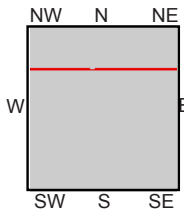
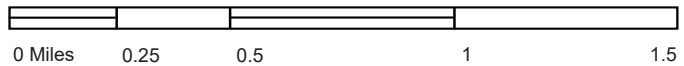


# Historical Topo Map

1893



This report includes information from the following map sheet(s).



TP, Fall River, 1893, 15-minute  
N, Taunton, 1893, 15-minute

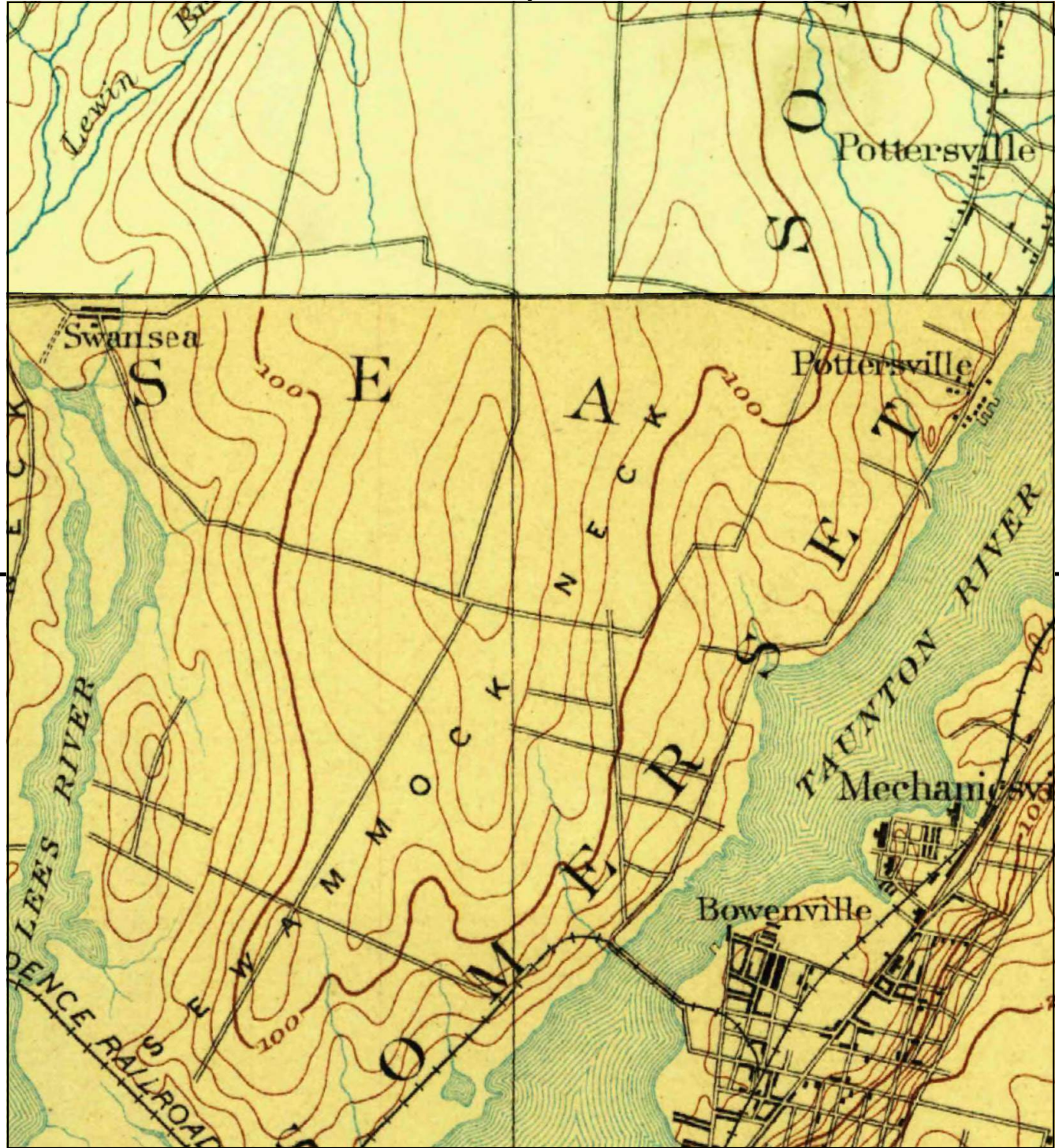
SITE NAME: Somerset Middle School  
ADDRESS: 1141 Brayton Avenue  
Somerset, MA 02726  
CLIENT: The Vertex Companies, Inc.



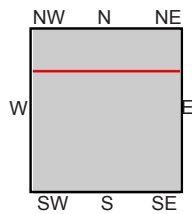
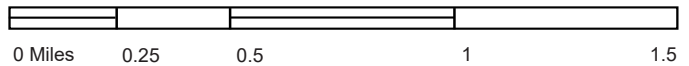


# Historical Topo Map

1888



This report includes information from the following map sheet(s).



TP, Fall River, 1888, 15-minute  
N, Taunton, 1888, 15-minute

SITE NAME: Somerset Middle School  
 ADDRESS: 1141 Brayton Avenue  
 Somerset, MA 02726  
 CLIENT: The Vertex Companies, Inc.



**APPENDIX F:  
SANBORN FIRE INSURANCE MAPS**

Somerset Middle School  
1141 Brayton Avenue  
Somerset, MA 02726

Inquiry Number: 5741137.3  
August 06, 2019

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## Certified Sanborn® Map Report

08/06/19

**Site Name:**

Somerset Middle School  
 1141 Brayton Avenue  
 Somerset, MA 02726  
 EDR Inquiry # 5741137.3

**Client Name:**

The Vertex Companies, Inc.  
 400 Libbey Parkway  
 Weymouth, MA 02189-0000  
 Contact: Nicollette Lynch



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**Certified Sanborn Results:**

**Certification #** 16C8-4955-AD4B  
**PO #** NA  
**Project** NA  
**Maps Provided:**  
 1959



Sanborn® Library search results  
 Certification #: 16C8-4955-AD4B

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- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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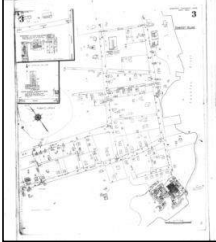


**Sanborn Sheet Key**

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



**1959 Source Sheets**



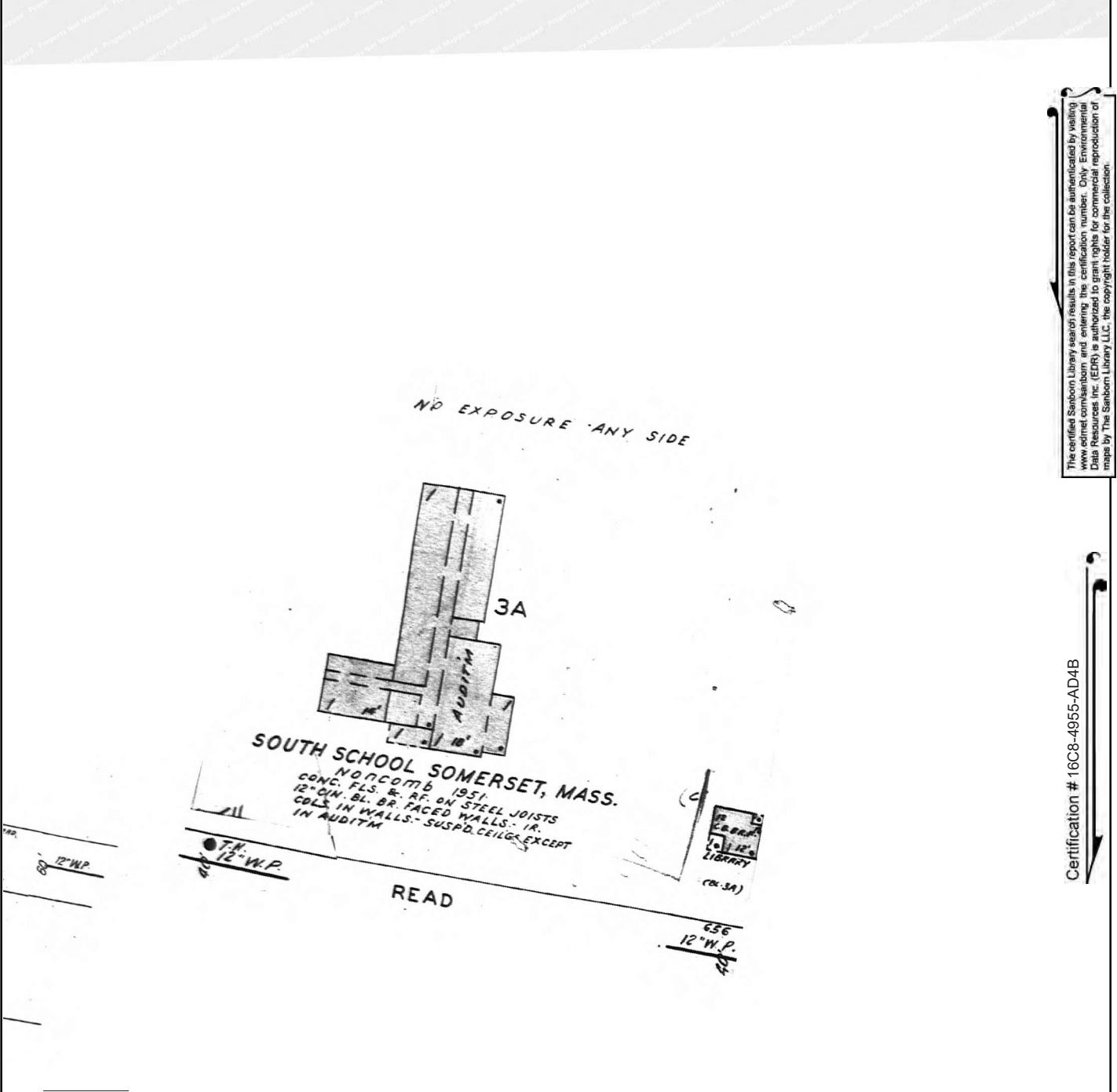
Volume 1, Sheet 3  
1959



# Certified Sanborn® Map

1959

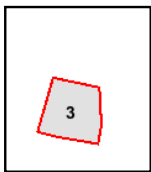
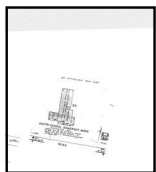
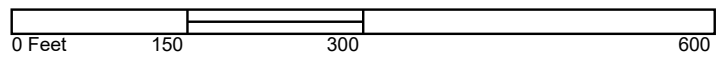
Site Name: Somerset Middle School  
 Address: 1141 Brayton Avenue  
 City, ST, ZIP: Somerset, MA 02726  
 Client: The Vertex Companies, Inc.  
 EDR Inquiry: 5741137.3  
 Order Date: 08/06/2019  
 Certification # 16C8-4955-AD4B  
 Copyright: 1959



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Certification # 16C8-4955-AD4B

This Certified Sanborn Map combines the following sheets.  
 Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 3



**APPENDIX G:  
REGULATORY DATABASE REPORT**

**Somerset Middle School**

1141 Brayton Avenue  
Somerset, MA 02726

Inquiry Number: 5741137.2s  
August 05, 2019

**The EDR Radius Map™ Report with GeoCheck®**



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

FORM-LBC-ASH

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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

1141 BRAYTON AVENUE  
SOMERSET, MA 02726

#### COORDINATES

Latitude (North):	41.7382790 - 41° 44' 17.80"
Longitude (West):	71.1650990 - 71° 9' 54.35"
Universal Transverse Mercator:	Zone 19
UTM X (Meters):	319948.9
UTM Y (Meters):	4622770.5
Elevation:	149 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5641997 FALL RIVER, MA
Version Date:	2012
North Map:	5641999 SOMERSET, MA
Version Date:	2012

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140718
Source:	USDA

MAPPED SITES SUMMARY
----------------------

Target Property Address:  
1141 BRAYTON AVENUE  
SOMERSET, MA 02726

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	SOUTH MIDDLE JR HIGH	1141 BRAYTON AVE	MA RGA LUST		TP
<a href="#">A2</a>	SOMERSET JR HIGH	1141 BRAYTON AVENUE	US AIRS, FINDS, ECHO		TP
<a href="#">A3</a>	SOUTH MIDDLE JR HIGH	1141 BRAYTON AVE	MA LUST, MA RELEASE, MA ASBESTOS		TP
<a href="#">4</a>	SOUTH SCHOOL	700 READ ST	MA LUST, MA RELEASE, MA AIRS	Higher	2, 0.000,
<a href="#">5</a>	NO LOCATION AID	1250 BRAYTON RD	MA SHWS, MA RELEASE	Lower	73, 0.014, NE
<a href="#">6</a>	D&D SANDBLASTING	125 GEORGE ST	RCRA NonGen / NLR	Lower	914, 0.173, ESE
<a href="#">7</a>	HAROLD ST	230 READ ST	MA LUST, MA INST CONTROL, MA RELEASE	Lower	1338, 0.253, ESE
<a href="#">8</a>	NO LOCATION AID	1193 READ ST	MA LAST, MA RELEASE	Lower	1339, 0.254, West
<a href="#">9</a>	NO LOCATION AID	1072 GRAND ARMY REPU	MA SHWS, MA RELEASE	Lower	1870, 0.354, SW
<a href="#">B10</a>	FORMER MOBIL	992 GRAND ARMY HWY (	MA SHWS, MA LUST, MA RELEASE	Lower	1890, 0.358, SW
<a href="#">B11</a>	CUMBERLAND FARMS V19	992 GRAND ARMY HWY	MA SHWS, MA RELEASE, MA HW GEN	Lower	1890, 0.358, SW
<a href="#">B12</a>	MOBIL STATION, FMR.	992 GRAND ARMY HWY	MA LUST, MA RELEASE	Lower	1890, 0.358, SW
<a href="#">B13</a>	CUMBERLAND FARMS GAS	992 G.A.R HWY	MA SHWS, MA RELEASE	Lower	1925, 0.365, SW
<a href="#">14</a>	RT-6 ROADWAY	1160 GAR HWY	MA SHWS, MA RELEASE	Lower	1982, 0.375, WSW
<a href="#">15</a>	IN FRONT OF HORNER M	IN FRONT OF 1255 GRA	MA SHWS, MA RELEASE	Lower	2301, 0.436, WSW
<a href="#">16</a>	PROPERTY	718 GRAND ARMY REBUL	MA SHWS, MA RELEASE	Higher	2397, 0.454, SSW
<a href="#">C17</a>	BAKERS GULF	3 COUNTY ST	MA SHWS, MA RELEASE	Lower	2500, 0.473, ESE
<a href="#">18</a>	SOMER MOTORS INC	1491 BRAYTON POINT R	MA LUST, MA RELEASE, MA HW GEN, MA TIER 2	Lower	2602, 0.493, SW
<a href="#">C19</a>	VEHICLE ACCIDENT	IN FRONT OF 54 COUNT	MA SHWS, MA RELEASE	Lower	2654, 0.503, ESE
<a href="#">20</a>	PETRO-TECH	266 GRAND ARMY REPUB	MA SHWS, MA SPILLS, MA RELEASE	Lower	2923, 0.554, SSE
<a href="#">21</a>	HOME DEPOT	535 GAR HIGHWAY RTE	MA SHWS, MA RELEASE	Lower	3231, 0.612, South
<a href="#">22</a>	FORMER FRESHWATER RE	1901 RIVERSIDE AVENU	MA SHWS, MA RELEASE	Lower	3625, 0.687, East
<a href="#">23</a>	7-ELEVEN #33227	1693 GRAND ARMY REPU	MA SHWS, MA UST, MA RELEASE, MA HW GEN	Lower	3754, 0.711, West
<a href="#">24</a>	GREECE BIBLE CHURCH	802 RIVERSIDE AVENUE	MA SHWS, MA RELEASE	Lower	3820, 0.723, SSE
<a href="#">D25</a>	GIBBS OIL CO	514 COUNTY ST	MA SHWS, MA RELEASE	Lower	3940, 0.746, ENE
<a href="#">D26</a>	HESS STATION	516 COUNTY ST	MA SHWS, MA RELEASE	Lower	3958, 0.750, ENE
<a href="#">27</a>	FORMER SOMERSET POWE	1606 RIVERSIDE AVE	MA SHWS, MA LAST, MA AST, MA INST CONTROL, MA...	Lower	4156, 0.787, East
<a href="#">28</a>	SHAWOMET ST	113 SHAWOMET ST	MA SHWS, MA LUST, MA RELEASE	Lower	4185, 0.793, ENE
<a href="#">29</a>	COMMUNITY CLEANSERS	875 COUNTY STREET	MA SHWS, MA RELEASE	Lower	4666, 0.884, ENE
<a href="#">30</a>	BRIGHTMAN ST BRIDGE	BRIGHTMAN ST	MA SHWS, MA RELEASE	Lower	4906, 0.929, SSE
<a href="#">31</a>	NEW ENGLAND POWER/DB	375 RIVERSIDE AVE	MA SHWS, MA RELEASE	Lower	5216, 0.988, South
<a href="#">32</a>	TAUNTON RIVER	BRIGHTMAN STREET BRG	MA SHWS, MA RELEASE	Lower	5234, 0.991, SSE
<a href="#">E33</a>	SPEEDWAY STORE #2416	35 G.A.R. HWY	MA SHWS, MA LUST, MA RELEASE	Lower	5266, 0.997, West
<a href="#">E34</a>	HESS STATION	35 GRAND ARMY HWY	MA SHWS, MA RELEASE	Lower	5266, 0.997, West
<a href="#">E35</a>	SPEEDWAY #2416	35 GAR HWY	MA SHWS, MA LUST, MA UST, MA RELEASE	Lower	5266, 0.997, West

## EXECUTIVE SUMMARY

**TARGET PROPERTY SEARCH RESULTS**

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
SOUTH MIDDLE JR HIGH 1141 BRAYTON AVE SOMERSET, MA	MA RGA LUST Facility ID: 4-0013199	N/A
SOMERSET JR HIGH 1141 BRAYTON AVENUE SOMERSET, MA 02726	US AIRS Database: US AIRS MINOR, Date of Government Version: 10/12/2016 EPA plant ID:: 110021925461  FINDS Registry ID:: 110021925461  ECHO Registry ID: 110021925461	N/A
SOUTH MIDDLE JR HIGH 1141 BRAYTON AVE SOMERSET, MA	MA LUST Release Tracking Number / Current Status: 4-0013199 / RAO  MA RELEASE Release Tracking Number / Current Status: 4-0013199 / RAO  MA ASBESTOS	N/A

**DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

**STANDARD ENVIRONMENTAL RECORDS**

***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing



## EXECUTIVE SUMMARY

SEMS..... Superfund Enterprise Management System

***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

***Federal RCRA CORRACTS facilities list***

CORRACTS..... Corrective Action Report

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators

RCRA-SQG..... RCRA - Small Quantity Generators

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System

US ENG CONTROLS..... Engineering Controls Sites List

US INST CONTROL..... Sites with Institutional Controls

***Federal ERNS list***

ERNS..... Emergency Response Notification System

***State and tribal landfill and/or solid waste disposal site lists***

MA SWF/LF..... Solid Waste Facility Database/Transfer Stations

***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing

INDIAN UST..... Underground Storage Tanks on Indian Land

***State and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

***State and tribal Brownfields sites***

MA BROWNFIELDS..... Completed Brownfields Covenants Listing

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

## EXECUTIVE SUMMARY

### **Local Lists of Landfill / Solid Waste Disposal Sites**

INDIAN ODI.....	Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9.....	Torres Martinez Reservation Illegal Dump Site Locations
ODI.....	Open Dump Inventory
IHS OPEN DUMPS.....	Open Dumps on Indian Land

### **Local Lists of Hazardous waste / Contaminated Sites**

US HIST CDL.....	Delisted National Clandestine Laboratory Register
US CDL.....	National Clandestine Laboratory Register

### **Local Land Records**

MA LIENS.....	Liens Information Listing
LIENS 2.....	CERCLA Lien Information

### **Records of Emergency Release Reports**

HMIRS.....	Hazardous Materials Information Reporting System
MA SPILLS 90.....	SPILLS 90 data from FirstSearch
MA SPILLS 80.....	SPILLS 80 data from FirstSearch

### **Other Ascertainable Records**

FUDS.....	Formerly Used Defense Sites
DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites

## EXECUTIVE SUMMARY

US MINES.....	Mines Master Index File
ABANDONED MINES.....	Abandoned Mines
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
UXO.....	Unexploded Ordnance Sites
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
MA DRYCLEANERS.....	Regulated Drycleaning Facilities
MA ENF.....	Enforcement Action Cases
MA Financial Assurance.....	Financial Assurance Information Listing
MA GWDP.....	Ground Water Discharge Permits
MA MERCURY.....	Mercury Product Recycling Drop-Off Locations Listing
MA NPDES.....	NPDES Permit Listing
MA TSD.....	TSD Facility
MA UIC.....	Underground Injection Control Listing

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

MA RGA HWS.....	Recovered Government Archive State Hazardous Waste Facilities List
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### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***State- and tribal - equivalent CERCLIS***

MA SHWS: Contains information on releases of oil and hazardous materials that have been reported to DEP.

A review of the MA SHWS list, as provided by EDR, and dated 02/28/2019 has revealed that there are 26 MA SHWS sites within approximately 1 mile of the target property.

## EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>PROPERTY</b> Release Tracking Number: 4-0006030 Compliance Status: Response Action Outcome	<b>718 GRAND ARMY REBUL</b>	<b>SSW 1/4 - 1/2 (0.454 mi.)</b>	<b>16</b>	<b>55</b>
<b>Lower Elevation</b>	<b>Address</b>	<b>Direction / Distance</b>	<b>Map ID</b>	<b>Page</b>
<b>NO LOCATION AID</b> Release Tracking Number: 4-0017461 Compliance Status: Response Action Outcome	<b>1250 BRAYTON RD</b>	<b>NE 0 - 1/8 (0.014 mi.)</b>	<b>5</b>	<b>23</b>
<b>NO LOCATION AID</b> Release Tracking Number: 4-0017907 Release Tracking Number: 4-0011851 Compliance Status: Response Action Outcome	<b>1072 GRAND ARMY REPU</b>	<b>SW 1/4 - 1/2 (0.354 mi.)</b>	<b>9</b>	<b>36</b>
<b>FORMER MOBIL</b> Release Tracking Number: 4-0021091 Compliance Status: Response Action Outcome	<b>992 GRAND ARMY HWY (</b>	<b>SW 1/4 - 1/2 (0.358 mi.)</b>	<b>B10</b>	<b>41</b>
<b>CUMBERLAND FARMS V19</b> Release Tracking Number: 4-0024629 Release Tracking Number: 4-0026045 Compliance Status: Response Action Outcome	<b>992 GRAND ARMY HWY</b>	<b>SW 1/4 - 1/2 (0.358 mi.)</b>	<b>B11</b>	<b>46</b>
<b>CUMBERLAND FARMS GAS</b> Release Tracking Number: 4-0027337	<b>992 G.A.R HWY</b>	<b>SW 1/4 - 1/2 (0.365 mi.)</b>	<b>B13</b>	<b>51</b>
<b>RT-6 ROADWAY</b> Release Tracking Number: 4-0026988	<b>1160 GAR HWY</b>	<b>WSW 1/4 - 1/2 (0.375 mi.)</b>	<b>14</b>	<b>52</b>
<b>IN FRONT OF HORNER M</b> Release Tracking Number: 4-0020357 Compliance Status: Response Action Outcome	<b>IN FRONT OF 1255 GRA</b>	<b>WSW 1/4 - 1/2 (0.436 mi.)</b>	<b>15</b>	<b>53</b>
<b>BAKERS GULF</b> Release Tracking Number: 4-0012663 Compliance Status: Response Action Outcome	<b>3 COUNTY ST</b>	<b>ESE 1/4 - 1/2 (0.473 mi.)</b>	<b>C17</b>	<b>56</b>
<b>VEHICLE ACCIDENT</b> Release Tracking Number: 4-0025254	<b>IN FRONT OF 54 COUNT</b>	<b>ESE 1/2 - 1 (0.503 mi.)</b>	<b>C19</b>	<b>66</b>
<b>PETRO-TECH</b> Release Tracking Number: 4-0018207 Compliance Status: Response Action Outcome	<b>266 GRAND ARMY REPUB</b>	<b>SSE 1/2 - 1 (0.554 mi.)</b>	<b>20</b>	<b>68</b>
<b>HOME DEPOT</b> Release Tracking Number: 4-0018798 Compliance Status: Response Action Outcome	<b>535 GAR HIGHWAY RTE</b>	<b>S 1/2 - 1 (0.612 mi.)</b>	<b>21</b>	<b>70</b>
<b>FORMER FRESHWATER RE</b> Release Tracking Number: 4-0027291 Compliance Status: Unclassified	<b>1901 RIVERSIDE AVENU</b>	<b>E 1/2 - 1 (0.687 mi.)</b>	<b>22</b>	<b>72</b>
<b>7-ELEVEN #33227</b> Release Tracking Number: 4-0018048 Compliance Status: Response Action Outcome	<b>1693 GRAND ARMY REPU</b>	<b>W 1/2 - 1 (0.711 mi.)</b>	<b>23</b>	<b>73</b>
<b>GREECE BIBLE CHURCH</b> Release Tracking Number: 4-0024413 Compliance Status: Response Action Outcome	<b>802 RIVERSIDE AVENUE</b>	<b>SSE 1/2 - 1 (0.723 mi.)</b>	<b>24</b>	<b>76</b>
<b>GIBBS OIL CO</b>	<b>514 COUNTY ST</b>	<b>ENE 1/2 - 1 (0.746 mi.)</b>	<b>D25</b>	<b>77</b>

## EXECUTIVE SUMMARY

Release Tracking Number: 4-0016426

Compliance Status: Response Action Outcome

<b>HESS STATION</b>	<b>516 COUNTY ST</b>	<b>ENE 1/2 - 1 (0.750 mi.)</b>	<b>D26</b>	<b>78</b>
Release Tracking Number: 4-0016973				
Release Tracking Number: 4-0018728				
Compliance Status: Response Action Outcome				
<b>FORMER SOMERSET POWE</b>	<b>1606 RIVERSIDE AVE</b>	<b>E 1/2 - 1 (0.787 mi.)</b>	<b>27</b>	<b>81</b>
Release Tracking Number: 4-0001017				
Release Tracking Number: 4-0014126				
Release Tracking Number: 4-0018175				
Release Tracking Number: 4-0016023				
Release Tracking Number: 4-0010291				
<i>*Additional key fields are available in the Map Findings section</i>				
Compliance Status: Not a Disposal Site (DEP)				
Compliance Status: Response Action Outcome				
<b>SHAWOMET ST</b>	<b>113 SHAWOMET ST</b>	<b>ENE 1/2 - 1 (0.793 mi.)</b>	<b>28</b>	<b>197</b>
Release Tracking Number: 4-0017443				
Compliance Status: Response Action Outcome				
<b>COMMUNITY CLEANSERS</b>	<b>875 COUNTY STREET</b>	<b>ENE 1/2 - 1 (0.884 mi.)</b>	<b>29</b>	<b>200</b>
Release Tracking Number: 4-0027260				
Compliance Status: Unclassified				
<b>BRIGHTMAN ST BRIDGE</b>	<b>BRIGHTMAN ST</b>	<b>SSE 1/2 - 1 (0.929 mi.)</b>	<b>30</b>	<b>201</b>
Release Tracking Number: 4-0012673				
Compliance Status: Response Action Outcome				
<b>NEW ENGLAND POWER/DB</b>	<b>375 RIVERSIDE AVE</b>	<b>S 1/2 - 1 (0.988 mi.)</b>	<b>31</b>	<b>202</b>
Release Tracking Number: 4-0026909				
<b>TAUNTON RIVER</b>	<b>BRIGHTMAN STREET BRG</b>	<b>SSE 1/2 - 1 (0.991 mi.)</b>	<b>32</b>	<b>203</b>
Release Tracking Number: 4-0015656				
Compliance Status: Adequately Regulated				
<b>SPEEDWAY STORE #2416</b>	<b>35 G.A.R. HWY</b>	<b>W 1/2 - 1 (0.997 mi.)</b>	<b>E33</b>	<b>204</b>
Release Tracking Number: 4-0027047				
Compliance Status: Response Action Outcome Not Required				
<b>HESS STATION</b>	<b>35 GRAND ARMY HWY</b>	<b>W 1/2 - 1 (0.997 mi.)</b>	<b>E34</b>	<b>208</b>
Release Tracking Number: 4-0020351				
Compliance Status: Response Action Outcome				
<b>SPEEDWAY #2416</b>	<b>35 GAR HWY</b>	<b>W 1/2 - 1 (0.997 mi.)</b>	<b>E35</b>	<b>210</b>
Release Tracking Number: 4-0022576				

### State and tribal leaking storage tank lists

MA LAST: The Leaking Aboveground Storage Tanks database

A review of the MA LAST list, as provided by EDR, and dated 02/28/2019 has revealed that there is 1 MA LAST site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NO LOCATION AID</b>	<b>1193 READ ST</b>	<b>W 1/4 - 1/2 (0.254 mi.)</b>	<b>8</b>	<b>31</b>
Release Tracking Number / Current Status: 4-0020152 / RAO				

## EXECUTIVE SUMMARY

MA LUST: Sites within the Releases Database that have a UST listed as its source.

A review of the MA LUST list, as provided by EDR, and dated 02/28/2019 has revealed that there are 5 MA LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>SOUTH SCHOOL</b> Release Tracking Number / Current Status: 4-0013198 / RAO	<b>700 READ ST</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>4</b>	<b>19</b>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>HAROLD ST</b> Release Tracking Number / Current Status: 4-0010795 / RAO	<b>230 READ ST</b>	<b>ESE 1/4 - 1/2 (0.253 mi.)</b>	<b>7</b>	<b>25</b>
<b>FORMER MOBIL</b> Release Tracking Number / Current Status: 4-0020922 / RAO	<b>992 GRAND ARMY HWY (</b>	<b>SW 1/4 - 1/2 (0.358 mi.)</b>	<b>B10</b>	<b>41</b>
<b>MOBIL STATION, FMR.</b> Release Tracking Number / Current Status: 4-0020951 / RAO	<b>992 GRAND ARMY HWY</b>	<b>SW 1/4 - 1/2 (0.358 mi.)</b>	<b>B12</b>	<b>49</b>
<b>SOMER MOTORS INC</b> Release Tracking Number / Current Status: 4-0013093 / RAO	<b>1491 BRAYTON POINT R</b>	<b>SW 1/4 - 1/2 (0.493 mi.)</b>	<b>18</b>	<b>58</b>

### **State and tribal institutional control / engineering control registries**

MA INST CONTROL: Activity and Use Limitations establish limits and conditions on the future use of contaminated property, and therefore allow cleanups to be tailored to these uses.

A review of the MA INST CONTROL list, as provided by EDR, and dated 02/28/2019 has revealed that there is 1 MA INST CONTROL site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>HAROLD ST</b> Release Tracking Number: 4-0010795	<b>230 READ ST</b>	<b>ESE 1/4 - 1/2 (0.253 mi.)</b>	<b>7</b>	<b>25</b>

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Other Ascertainable Records**

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>D&amp;D SANDBLASTING</b>	<b>125 GEORGE ST</b>	<b>ESE 1/8 - 1/4 (0.173 mi.)</b>	<b>6</b>	<b>24</b>

## EXECUTIVE SUMMARY

EPA ID:: MAR000505305

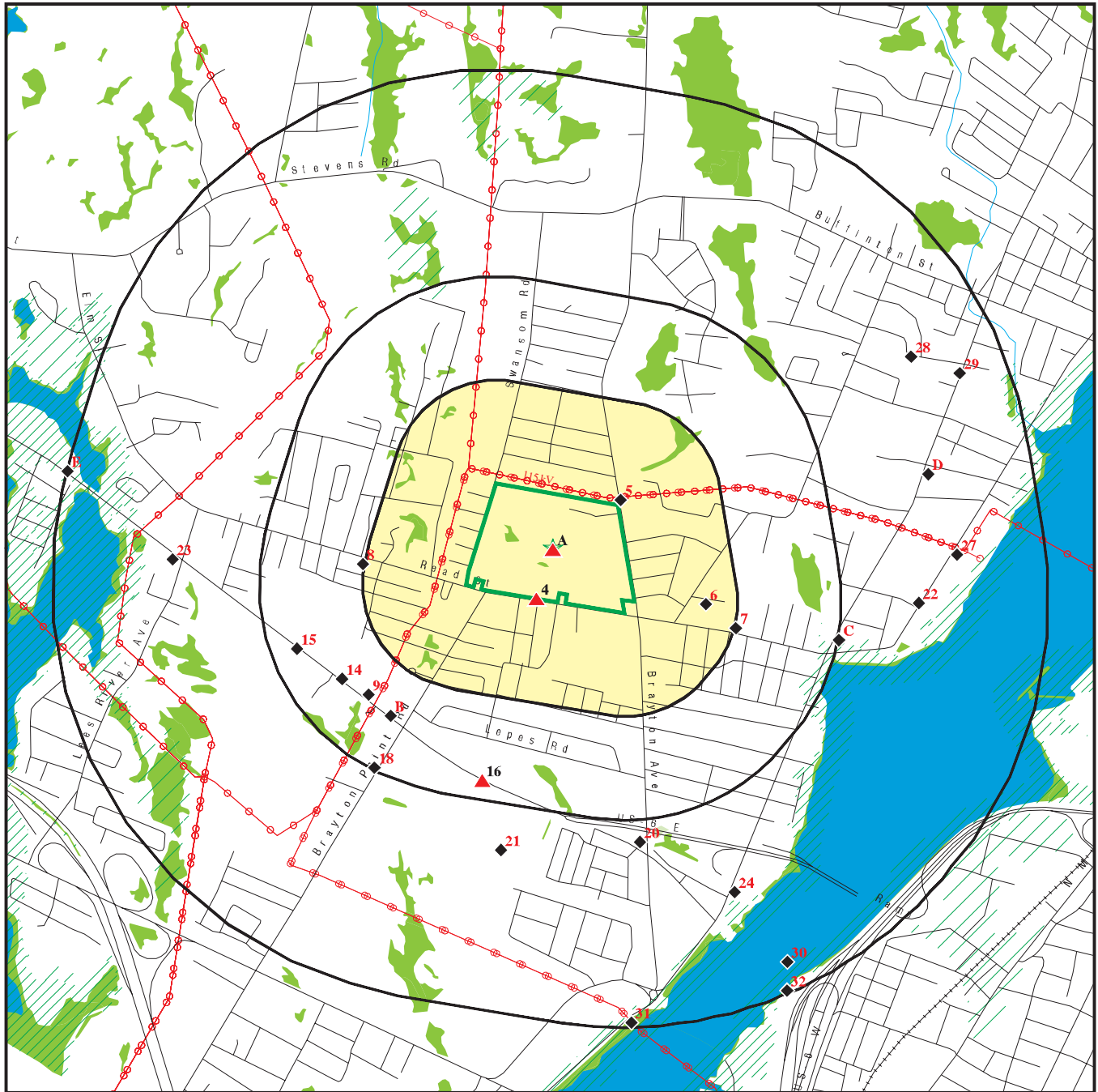
## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 14 records.

<u>Site Name</u>	<u>Database(s)</u>
WATTUPA WATER	MA LUST, MA RELEASE, MA ASBESTOS
PG&E POWER STA	MA SHWS, MA RELEASE
BEHIND DANGELOS	MA SHWS, MA RELEASE
RT 195 WEST AT EXIT 4	MA SHWS, MA RELEASE
POWER PLANT	MA SHWS, MA RELEASE
NO LOCATION AID	MA SHWS, MA LAST, MA RELEASE
@BRAYTON PT POWER	MA SHWS, MA RELEASE
BRAYTON AVE.	MA SHWS, MA RELEASE
RT 195 WEST-EXIT 4 OFF-RAMP	MA SHWS, MA RELEASE
BLDG 19 PARKING LOT	MA SHWS, MA RELEASE
UTILITY POLE	MA SHWS, MA RELEASE
SOMERSET TRANSFER STATION	MA SWF/LF
SOMERSET LANDFILL	MA SWF/LF
BORGE LANDFILL	MA SWF/LF



### OVERVIEW MAP - 5741137.2S



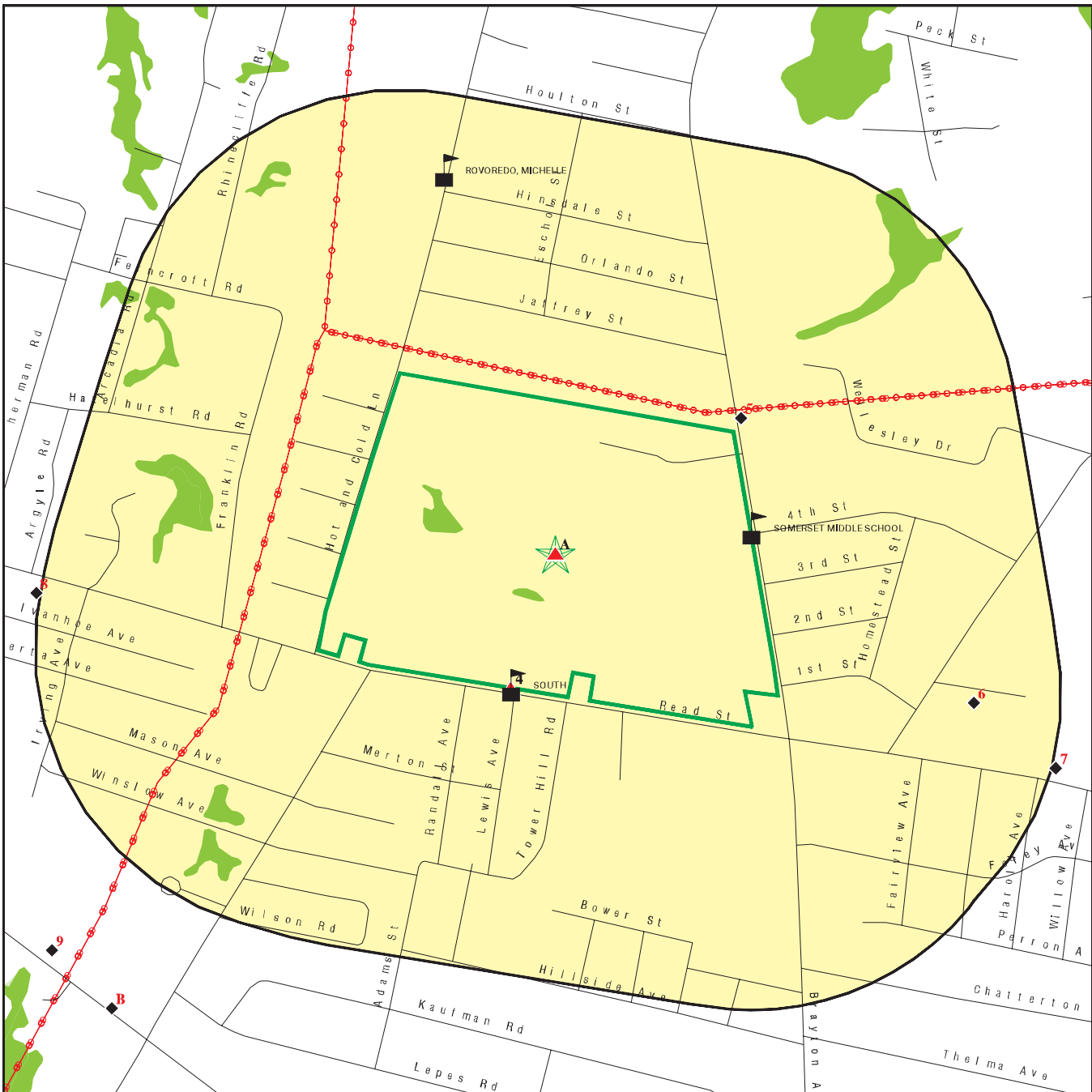
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Critical Environmental Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

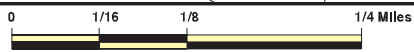
<p><b>SITE NAME:</b> Somerset Middle School  <b>ADDRESS:</b> 1141 Brayton Avenue                  Somerset MA 02726  <b>LAT/LONG:</b> 41.738279 / 71.165099</p>	<p><b>CLIENT:</b> The Vertex Companies, Inc.  <b>CONTACT:</b> Nicollette Lynch  <b>INQUIRY #:</b> 5741137.2s  <b>DATE:</b> August 05, 2019 2:23 pm</p>
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DETAIL MAP - 5741137.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Critical Environmental Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p>SITE NAME: Somerset Middle School                  ADDRESS: 1141 Brayton Avenue                  Somerset MA 02726                  LAT/LONG: 41.738279 / 71.165099</p>	<p>CLIENT: The Vertex Companies, Inc.                  CONTACT: Nicollette Lynch                  INQUIRY #: 5741137.2s                  DATE: August 05, 2019 2:25 pm</p>
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## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b>Federal NPL site list</b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b>Federal Delisted NPL site list</b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b>Federal CERCLIS list</b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b>Federal CERCLIS NFRAP site list</b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b>Federal RCRA CORRACTS facilities list</b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b>Federal RCRA non-CORRACTS TSD facilities list</b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b>Federal RCRA generators list</b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b>Federal institutional controls / engineering controls registries</b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b>Federal ERNS list</b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b>State- and tribal - equivalent CERCLIS</b>								
MA SHWS	1.000		1	0	8	17	NR	26
<b>State and tribal landfill and/or solid waste disposal site lists</b>								
MA SWF/LF	0.500		0	0	0	NR	NR	0
<b>State and tribal leaking storage tank lists</b>								
MA LAST	0.500		0	0	1	NR	NR	1
MA LUST	0.500	1	1	0	4	NR	NR	6
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b>State and tribal registered storage tank lists</b>								
FEMA UST	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MA UST	0.250		0	0	NR	NR	NR	0
MA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
MA INST CONTROL	0.500		0	0	1	NR	NR	1
<b>State and tribal voluntary cleanup sites</b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
MA BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
MA LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
MA SPILLS	TP		NR	NR	NR	NR	NR	0
MA RELEASE	TP	1	NR	NR	NR	NR	NR	1
MA SPILLS 90	TP		NR	NR	NR	NR	NR	0
MA SPILLS 80	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		0	1	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP	1	NR	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
MA AIRS	TP		NR	NR	NR	NR	NR	0
MA ASBESTOS	TP	1	NR	NR	NR	NR	NR	1
MA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MA ENF	TP		NR	NR	NR	NR	NR	0
MA Financial Assurance	TP		NR	NR	NR	NR	NR	0
MA GWDP	TP		NR	NR	NR	NR	NR	0
MA HW GEN	0.250		0	0	NR	NR	NR	0
RI MANIFEST	0.250		0	0	NR	NR	NR	0
NJ MANIFEST	0.250		0	0	NR	NR	NR	0
MA MERCURY	0.500		0	0	0	NR	NR	0
MA NPDES	TP		NR	NR	NR	NR	NR	0
MA TIER 2	TP		NR	NR	NR	NR	NR	0
MA TSD	0.500		0	0	0	NR	NR	0
MA UIC	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### **EDR Exclusive Records**

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
<b><u>EDR RECOVERED GOVERNMENT ARCHIVES</u></b>								
<b><i>Exclusive Recovered Govt. Archives</i></b>								
MA RGA HWS	TP		NR	NR	NR	NR	NR	0
MA RGA LUST	TP	1	NR	NR	NR	NR	NR	1
- Totals --		7	2	1	14	17	0	41

**NOTES:**

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID			
Direction			EDR ID Number
Distance		Database(s)	EPA ID Number
Elevation	Site		

<b>A1</b>	<b>SOUTH MIDDLE JR HIGH SCHOOL</b>	<b>MA RGA LUST</b>	<b>S115007627</b>
<b>Target</b>	<b>1141 BRAYTON AVE</b>		<b>N/A</b>
<b>Property</b>	<b>SOMERSET, MA</b>		

**Site 1 of 3 in cluster A**

<b>Actual:</b>	RGA LUST:				
<b>149 ft.</b>		2012	SOUTH MIDDLE JR HIGH SCHOOL	1141 BRAYTON AVE	
		2011	SOUTH MIDDLE JR HIGH SCHOOL	1141 BRAYTON AVE	
		2010	SOUTH MIDDLE JR HIGH SCHOOL	1141 BRAYTON AVE	
		2009	SOUTH MIDDLE JR HIGH SCHOOL	1141 BRAYTON AVE	
		2008	SOUTH MIDDLE JR HIGH SCHOOL	1141 BRAYTON AVE	
		2007	SOUTH MIDDLE JR HIGH SCHOOL	1141 BRAYTON AVE	
		2006	SOUTH MIDDLE JR HIGH SCHOOL	1141 BRAYTON AVE	
		2005	SOUTH MIDDLE JR HIGH SCHOOL	1141 BRAYTON AVE	
		2004	SOUTH MIDDLE JR HIGH SCHOOL	1141 BRAYTON AVE	
		2003	SOUTH MIDDLE JR HIGH SCHOOL	1141 BRAYTON AVE	
		2002	SOUTH MIDDLE JR HIGH SCHOOL	1141 BRAYTON AVE	

<b>A2</b>	<b>SOMERSET JR HIGH</b>	<b>US AIRS</b>	<b>1008302052</b>
<b>Target</b>	<b>1141 BRAYTON AVENUE</b>	<b>FINDS</b>	<b>N/A</b>
<b>Property</b>	<b>SOMERSET, MA 02726</b>	<b>ECHO</b>	

**Site 2 of 3 in cluster A**

<b>Actual:</b>	US AIRS MINOR:				
<b>149 ft.</b>	Envid:		1008302052		
	Region Code:		01		
	Programmatic ID:		AIR MA0000002512000729		
	Facility Registry ID:		110021925461		
	D and B Number:		Not reported		
	Primary SIC Code:		8211		
	NAICS Code:		611110		
	Default Air Classification Code:		MIN		
	Facility Type of Ownership Code:		CTG		
	Air CMS Category Code:		Not reported		
	HPV Status:		Not reported		
	US AIRS MINOR:				
	Region Code:		01		
	Programmatic ID:		AIR MA0000002512000729		
	Facility Registry ID:		110021925461		
	Air Operating Status Code:		OPR		
	Default Air Classification Code:		MIN		
	Air Program:		State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards		
	Activity Date:		1987-01-12 00:00:00		
	Activity Status Date:		Not reported		
	Activity Group:		Compliance Monitoring		
	Activity Type:		Inspection/Evaluation		
	Activity Status:		Not reported		
	Region Code:		01		
	Programmatic ID:		AIR MA0000002512000729		
	Facility Registry ID:		110021925461		
	Air Operating Status Code:		OPR		
	Default Air Classification Code:		MIN		
	Air Program:		State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards		
	Activity Date:		1990-01-05 00:00:00		
	Activity Status Date:		Not reported		
	Activity Group:		Compliance Monitoring		

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**SOMERSET JR HIGH (Continued)**

**1008302052**

Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 01  
Programmatic ID: AIR MA0000002512000729  
Facility Registry ID: 110021925461  
Air Operating Status Code: OPR  
Default Air Classification Code: MIN  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 1993-01-19 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 01  
Programmatic ID: AIR MA0000002512000729  
Facility Registry ID: 110021925461  
Air Operating Status Code: OPR  
Default Air Classification Code: MIN  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2002-02-11 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 01  
Programmatic ID: AIR MA0000002512000729  
Facility Registry ID: 110021925461  
Air Operating Status Code: OPR  
Default Air Classification Code: MIN  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2011-11-15 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

US AIRS MINOR:  
Envid: 1008302052  
Region Code: 01  
Programmatic ID: AIR MA0000002512000729  
Facility Registry ID: 110021925461  
D and B Number: Not reported  
Primary SIC Code: 8211  
NAICS Code: 611110  
Default Air Classification Code: MIN  
Facility Type of Ownership Code: CTG  
Air CMS Category Code: Not reported  
HPV Status: Not reported

US AIRS MINOR:  
Region Code: 01  
Programmatic ID: AIR MA0000002512000729  
Facility Registry ID: 110021925461



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**SOMERSET JR HIGH (Continued)**

**1008302052**

Site	Database(s)	EDR ID Number EPA ID Number
<p>Air Operating Status Code: OPR Default Air Classification Code: MIN Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards Activity Date: 1987-01-12 00:00:00 Activity Status Date: Not reported Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation Activity Status: Not reported</p> <p>Region Code: 01 Programmatic ID: AIR MA0000002512000729 Facility Registry ID: 110021925461 Air Operating Status Code: OPR Default Air Classification Code: MIN Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards Activity Date: 1990-01-05 00:00:00 Activity Status Date: Not reported Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation Activity Status: Not reported</p> <p>Region Code: 01 Programmatic ID: AIR MA0000002512000729 Facility Registry ID: 110021925461 Air Operating Status Code: OPR Default Air Classification Code: MIN Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards Activity Date: 1993-01-19 00:00:00 Activity Status Date: Not reported Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation Activity Status: Not reported</p> <p>Region Code: 01 Programmatic ID: AIR MA0000002512000729 Facility Registry ID: 110021925461 Air Operating Status Code: OPR Default Air Classification Code: MIN Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards Activity Date: 2002-02-11 00:00:00 Activity Status Date: Not reported Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation Activity Status: Not reported</p> <p>Region Code: 01 Programmatic ID: AIR MA0000002512000729 Facility Registry ID: 110021925461 Air Operating Status Code: OPR Default Air Classification Code: MIN Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards Activity Date: 2011-11-15 00:00:00 Activity Status Date: Not reported Activity Group: Compliance Monitoring Activity Type: Inspection/Evaluation Activity Status: Not reported</p>		

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOMERSET JR HIGH (Continued)**

**1008302052**

**FINDS:**

Registry ID: 110021925461

**Environmental Interest/Information System**

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

AIR EMISSIONS CLASSIFICATION UNKNOWN

MA-EPICS - Massachusetts Environmental Protection Integrated Computer System

AIR MINOR

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1008302052  
Registry ID: 110021925461  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110021925461>

**A3  
Target  
Property**

**SOUTH MIDDLE JR HIGH SCHOOL  
1141 BRAYTON AVE  
SOMERSET, MA**

**MA LUST S102687526  
MA RELEASE N/A  
MA ASBESTOS**

**Site 3 of 3 in cluster A**

**Actual:  
149 ft.**

**LUST:**

**Facility:**

**Current Status: Not reported**  
Release Tracking Number/Current Status: 4-0013199 / RAO  
Status Date: 09/16/1997  
Source Type: UST  
Release Town: SOMERSET  
Notification Date: 07/18/1997  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
Oil Or Haz Material: Oil  
Location Type: SCHOOL  
Source: UST

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
--------	-----------	----------	-----------	------	-------------	---------------	---------------

## MAP FINDINGS

**SOUTH MIDDLE JR HIGH SCHOOL (Continued)****S102687526**

[Click here to access the MA DEP site for this facility:](#)

**Chemicals:**

Chemical: #2 FUEL OIL  
Quantity: 100 parts per million

**Actions:**

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 7/18/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 7/18/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
Action Date: 7/24/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 9/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 9/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**Release:**

Release Tracking Number/Current Status: 4-0013199 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 07/18/1997  
Category: 72 HR  
Status Date: 09/16/1997  
Phase: Not reported  
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
Oil / Haz Material Type: Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH MIDDLE JR HIGH SCHOOL (Continued)**

**S102687526**

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 7/18/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 7/18/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
 Action Date: 7/24/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 9/16/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
 Action Status: RAO Statement Received  
 Action Date: 9/16/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
 Action Status: Completion Statement Received  
 Action Date: 9/16/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**Chemicals:**

Chemical: #2 FUEL OIL  
 Quantity: 100 parts per million  
 Location Type: SCHOOL  
 Source: UST

**ASBESTOS:**

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 12/27/2010  
 End Date: 12/31/2010  
 Date Entered: Not reported  
 Entry Date: 11/30/2010  
 Quantity Material Removed SF: 80.00  
 Quantity Material Removed LF: .00  
 Project Description: Blr

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**SOUTH MIDDLE JR HIGH SCHOOL (Continued)**

**S102687526**

AR Tracking ID:	135063
Super Lic Number:	AS61476
Monitor Lic Number:	AM060526
Lab Lic Number:	AA000007
Year:	2010
Sticker Number:	100117396
Form Type:	ANF-001
Fee Status:	Exempt
Facility Phone:	Not reported
Sub Town:	Not reported
Worksite:	BOILER ROOM
Occupied:	-1
Contractor:	AC000627
Contract Type:	WRITTEN
Hours:	Week days: 8-4 Week end:
Project Type:	Rpr
Abatement Process:	Fcontain,Encp
Location:	Indoors
Decon Process:	3 STAGE FULL
Disposal Methods:	WRAPPED IN 2 LAYERS 6 MIL POLY LABELED AND SEALED
Facility Usage:	SCHOOL
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	5
Owner Name:	TOWN OF SOMERSET - SCHOOL DEPT
Owner Address:	580 WHETSTONE HILL ROAD
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	BANNER ENVIRO
Transporter Address:	16 BACK RIVER WAY
Transporter City:	DUXBURY
Transporter State:	Not reported
Final Site:	39
Certified Name:	D NELSON
Cert Sign Date:	11/30/2010
Certified Company:	BANNER
Certified Phone:	7819346873
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	01/21/2011
End Date:	01/21/2011
Date Entered:	Not reported
Entry Date:	01/20/2011
Quantity Material Removed SF:	80.00
Quantity Material Removed LF:	.00
Project Description:	Blr
AR Tracking ID:	136942

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH MIDDLE JR HIGH SCHOOL (Continued)****S102687526**

Super Lic Number: AS61476  
 Monitor Lic Number: AM060526  
 Lab Lic Number: AA000007  
 Year: 2011  
 Sticker Number: 100119751  
 Form Type: ANF-001  
 Fee Status: Exempt  
 Facility Phone: Not reported  
 Sub Town: Not reported  
 Worksite: SAME  
 Occupied: -1  
 Contractor: AC000627  
 Contract Type: WRITTEN  
 Hours: Week days: 8-4 Week end:  
 Project Type: Rpr  
 Abatement Process: Fcontain  
 Location: Indoors  
 Decon Process: 3 STAGAE FULL  
 Disposal Methods: WRAPPED IN 2 LAYERS 6 MIL POLY LABELED AND SEALED  
 Facility Usage: SCHOOL  
 Waiver Given: Not reported  
 DEP Waiver Number: SE 11-013  
 DLWD Waiver Number: 11-040 NB  
 Small Owner Occ: 5  
 Owner Name: TOWN OF SOMERSET  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: BANNER ENVIRO  
 Transporter Address: 16 BACK RIVER WAY  
 Transporter City: DUXBURY  
 Transporter State: Not reported  
 Final Site: 39  
 Certified Name: D NELSON  
 Cert Sign Date: 01/20/2011  
 Certified Company: BANNER  
 Certified Phone: 7819346873  
 Entered\_by: Not reported  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 06/29/2004  
 End Date: 06/30/2004  
 Date Entered: Not reported  
 Entry Date: 06/07/2004  
 Quantity Material Removed SF: .00  
 Quantity Material Removed LF: 35.00  
 Project Description: Other:0  
 AR Tracking ID: 40571  
 Super Lic Number: AS040468

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**SOUTH MIDDLE JR HIGH SCHOOL (Continued)**

**S102687526**

Monitor Lic Number:	AM051114
Lab Lic Number:	AA000173
Year:	2004
Sticker Number:	100005650
Form Type:	ANF-001
Fee Status:	Exempt
Facility Phone:	5083243140
Sub Town:	Not reported
Worksite:	MEN/WOMEN RESTROOM
Occupied:	-1
Contractor:	AC000412
Contract Type:	WRITTEN
Hours:	Week days: 8AM-4PM Week end:
Project Type:	Renv
Abatement Process:	Glv
Location:	Indoors
Decon Process:	REMOTE DECON UNIT
Disposal Methods:	GLOVEBAG - WET ACM AND PLACE IN DOUBLE 6-MIL BAGS. DISPOSE AT EPA APPROVED LANDFILL.
Facility Usage:	SCHOOL
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	5
Owner Name:	SOMERSET PUBLIC SCHOOLS
Owner Address:	580 WHETSTONE HILL ROAD
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	NA
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	10000
Transporter Name:	ERS, INC.
Transporter Address:	98 CAMBRIDGE ST.
Transporter City:	MIDDLEBORO
Transporter State:	Not reported
Final Site:	39
Certified Name:	GARY PELLETTIER
Cert Sign Date:	06/07/2004
Certified Company:	ERS, INC.
Certified Phone:	5089986229
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	02/19/2007
End Date:	02/23/2007
Date Entered:	Not reported
Entry Date:	02/06/2007
Quantity Material Removed SF:	.00
Quantity Material Removed LF:	38.00
Project Description:	Trwl
AR Tracking ID:	79128
Super Lic Number:	AS61476

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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Site

Database(s) EDR ID Number  
EPA ID Number

**SOUTH MIDDLE JR HIGH SCHOOL (Continued)****S102687526**

Monitor Lic Number:	AM060526
Lab Lic Number:	AA000007
Year:	2007
Sticker Number:	100051349
Form Type:	ANF-001
Fee Status:	Exempt
Facility Phone:	Not reported
Sub Town:	Not reported
Worksite:	SAME
Occupied:	-1
Contractor:	AC000627
Contract Type:	WRITTEN
Hours:	Week days: 8-4 Week end:
Project Type:	Rpr
Abatement Process:	Glv
Location:	Indoors
Decon Process:	SINGLE AND/OR 3 STAGE AS NEEDED
Disposal Methods:	WRAPPED IN 2 LAYER 6 MIL POLY LABELED AND SEALED W/ DUCT TAPE
Facility Usage:	SCHOOL
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	5
Owner Name:	SOMERSET SCHOOL DEPT
Owner Address:	580 WHETSTONE HILL RD
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	Not reported
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	47
Certified Name:	D NELSON
Cert Sign Date:	02/06/2007
Certified Company:	BANNER
Certified Phone:	7819346873
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	07/11/2013
End Date:	07/11/2013
Date Entered:	Not reported
Entry Date:	07/10/2013
Quantity Material Removed SF:	.00
Quantity Material Removed LF:	14.00
Project Description:	Spr
AR Tracking ID:	175854
Super Lic Number:	AS000630
Monitor Lic Number:	AM060297



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**SOUTH MIDDLE JR HIGH SCHOOL (Continued)**

**S102687526**

Lab Lic Number:	AA000131
Year:	2013
Sticker Number:	100181115
Form Type:	ANF-001
Fee Status:	Exempt
Facility Phone:	Not reported
Sub Town:	Not reported
Worksite:	THROUGHOUT
Occupied:	-1
Contractor:	AC000745
Contract Type:	WRITTEN
Hours:	Week days: 7-3 Week end:
Project Type:	Renv
Abatement Process:	Glv
Location:	Indoors
Decon Process:	GLOVE BAG
Disposal Methods:	ALL ACM HANDLED WET, DOUBLE BAGGED, LABELED, DISPOSED IN EPA LANDFILL
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	SE-132-16
DLWD Waiver Number:	6895-2013
Small Owner Occ:	5
Owner Name:	SOMERSET MIDDLE SCHOOL
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	CLEAN AIR ENVIRONMENTAL, INC
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	39
Certified Name:	KEVIN GOHEEN
Cert Sign Date:	07/10/2013
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	07/23/2015
End Date:	07/25/2015
Date Entered:	Not reported
Entry Date:	07/10/2015
Quantity Material Removed SF:	1832.00
Quantity Material Removed LF:	Not reported
Project Description:	OTHER VAT MASTIC COVE BASE
AR Tracking ID:	217118
Super Lic Number:	AS000630
Monitor Lic Number:	AM060297
Lab Lic Number:	AA000131

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**SOUTH MIDDLE JR HIGH SCHOOL (Continued)**

**S102687526**

Year: 2015  
 Sticker Number: 100224287  
 Form Type: ANF-001  
 Fee Status: EXEMPT  
 Facility Phone: 5083243100  
 Sub Town: Not reported  
 Worksite: HALLWAY  
 Occupied: -1  
 Contractor: AC000745  
 Contract Type: WRITTEN  
 Hours: 7-7  
 Project Type: Renv  
 Abatement Process: Fcontain  
 Location: INDOORS  
 Decon Process: FULL CONTAINMENT  
 Disposal Methods: ALL ACM HANDLED WET, DOUBLE BAGGED, LABELED, DISPOSED IN EPA LANDFILL  
 Facility Usage: SCHOOL  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: SOMERSET MIDDLE SCHOOL  
 Owner Address: 1141 BRAYTON AVENUE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: CARLOS CAMPOS  
 On Site Manager Phone: 5083243100  
 Ins Comp: LIBERTY MUTUAL  
 Policy Number: WC231S375413035  
 EXP Date: 3/29/2016  
 Facility Size: 137000  
 Transporter Name: CLEAN AIR ENVIRONMENTAL, INC  
 Transporter Address: 193 WEBSTER STREET  
 Transporter City: BOSTON  
 Transporter State: MA  
 Final Site: Not reported  
 Certified Name: KEVIN GOHEEN  
 Cert Sign Date: 07/10/2015  
 Certified Company: CLEAN AIR ENVIRONMENTAL, INC  
 Certified Phone: 6179702572  
 Entered\_by: KEVINGO

**4** **SOUTH SCHOOL**  
**700 READ ST**  
**SOMERSET, MA 02726**  
 < 1/8  
 0.000 mi.  
 2 ft.

**MA LUST 1001315434**  
**MA RELEASE N/A**  
**MA AIRS**

**Relative:** LUST:  
**Higher** Facility:  
**Actual:** **Current Status: Not reported**  
**155 ft.** Release Tracking Number/Current Status: 4-0013198 / RAO  
 Status Date: 09/16/1997  
 Source Type: UST  
 Release Town: SOMERSET  
 Notification Date: 07/18/1997  
 Category: 72 HR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**SOUTH SCHOOL (Continued)**

**1001315434**

Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
Oil Or Haz Material: Oil  
Location Type: SCHOOL  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: #2 FUEL OIL  
Quantity: 100 parts per million

Actions:

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 7/18/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 7/18/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
Action Date: 7/24/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 9/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 9/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/16/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Release:

Release Tracking Number/Current Status: 4-0013198 / RAO

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**SOUTH SCHOOL (Continued)**

**1001315434**

Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 07/18/1997  
 Category: 72 HR  
 Status Date: 09/16/1997  
 Phase: Not reported  
 Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
 Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 7/18/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 7/18/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
 Action Date: 7/24/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
 Action Status: Completion Statement Received  
 Action Date: 9/16/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
 Action Status: RAO Statement Received  
 Action Date: 9/16/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 9/16/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**Chemicals:**

Chemical: #2 FUEL OIL  
 Quantity: 100 parts per million  
 Location Type: SCHOOL  
 Source: UST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH SCHOOL (Continued)**

**1001315434**

AIRS:

Address 2:	Not reported
Facility Status:	Not reported
Permit Code:	Not reported
Permit Name:	Not reported
DEP Region:	Not reported
Application Tracking Number:	Not reported
Date Closed:	Not reported
Applicant Name:	Not reported
Applicant Address:	Not reported
Applicant City,St,Zip:	Not reported
Applicant Telephone:	Not reported
AQID:	1200731
Owner Name:	SOUTH SCHOOL
Latitude:	41.770435
Longitude:	-71.139158
Primary NAICS:	Y
NAICS Code:	611110
NAICS Desc:	Elementary and Secondary Schools

AIRS:

Pollutant:	AMMONIA
Actual Emission:	0
Emission Year:	2014
Pollutant:	CARBON MONOXIDE
Actual Emission:	0
Emission Year:	2014
Pollutant:	HALOGENATED ORGANIC COMPOUND
Actual Emission:	0
Emission Year:	2014
Pollutant:	HYDROCARBON
Actual Emission:	0
Emission Year:	2014
Pollutant:	NITROGEN OXIDES (NOx)
Actual Emission:	0
Emission Year:	2014
Pollutant:	PM10, FILTERABLE
Actual Emission:	0
Emission Year:	2014
Pollutant:	PM2.5, FILTERABLE
Actual Emission:	0
Emission Year:	2014
Pollutant:	SULFUR DIOXIDE
Actual Emission:	0
Emission Year:	2014
Pollutant:	VOLATILE ORGANIC COMPOUNDS (VOC)
Actual Emission:	0
Emission Year:	2014

MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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<b>5</b>	<b>NE</b>	<b>&lt; 1/8</b>	<b>0.014 mi.</b>	<b>NO LOCATION AID 1250 BRAYTON RD SOMERSET, MA</b>	<b>MA SHWS MA RELEASE</b>	<b>S105735818</b>	<b>N/A</b>
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**Relative:** SHWS:  
**Lower** Facility ID: 4-0017461  
**Actual:** Source Type: TRANSFORM  
**123 ft.** Release Town: SOMERSET  
 Notification Date: 11/15/2002  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 01/10/2003  
 Phase: Not reported  
 Response Action Outcome: A1  
 Oil Or Haz Material: Oil

**Release:**  
 Release Tracking Number/Current Status: 4-0017461 / RAO  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 11/15/2002  
 Category: TWO HR  
 Status Date: 01/10/2003  
 Phase: Not reported  
 Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
 Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	1/10/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	1/10/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	11/15/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	11/15/2002
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S105735818**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
 Action Date: 11/20/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:  
 Chemical: TRANSFORMER OIL  
 Quantity: 95 gallons  
 Location Type: INDUSTRIAL  
 Source: TRANSFORM

**6**  
**ESE**  
**1/8-1/4**  
**0.173 mi.**  
**914 ft.**

**D&D SANDBLASTING**  
**125 GEORGE ST**  
**SOMERSET, MA 02727**

**RCRA NonGen / NLR** **1007570462**  
**MAR000505305**

**Relative:**  
**Lower**  
**Actual:**  
**85 ft.**

RCRA NonGen / NLR:  
 Date form received by agency: 10/10/2002  
 Facility name: D&D SANDBLASTING  
 Facility address: 125 GEORGE ST  
 SOMERSET, MA 02727  
 EPA ID: MAR000505305  
 Contact: OWNERNAME OWNERNAME  
 Contact address: 125 GEORGE ST  
 SOMERSET, MA 02727  
 Contact country: US  
 Contact telephone: 999-999-9999  
 Contact email: Not reported  
 EPA Region: 01  
 Land type: Private  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:  
 Owner/operator name: OWNER NAME  
 Owner/operator address: 125 GEORGE ST  
 SOMERSET, MA 02727  
 Owner/operator country: US  
 Owner/operator telephone: Not reported  
 Owner/operator email: Not reported  
 Owner/operator fax: Not reported  
 Owner/operator extension: Not reported  
 Legal status: Private  
 Owner/Operator Type: Owner  
 Owner/Op start date: 01/01/1900  
 Owner/Op end date: Not reported

Handler Activities Summary:  
 U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**D&D SANDBLASTING (Continued)**

**1007570462**

On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**Evaluation Action Summary:**

Evaluation date: 09/30/2002  
Evaluation: NOT A SIGNIFICANT NON-COMPLIER  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA

Evaluation date: 08/08/2002  
Evaluation: SIGNIFICANT NON-COMPLIER  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA

**7**  
**ESE**  
**1/4-1/2**  
**0.253 mi.**  
**1338 ft.**

**HAROLD ST**  
**230 READ ST**  
**SOMERSET, MA 02726**

**MA LUST** **S102088162**  
**MA INST CONTROL** **N/A**  
**MA RELEASE**

**Relative:**  
**Lower**  
**Actual:**  
**69 ft.**

**LUST:**  
**Facility:**  
**Current Status:** **Not reported**  
**Release Tracking Number/Current Status:** 4-0010795 / RAO  
**Status Date:** 09/25/1995  
**Source Type:** UST  
**Release Town:** SOMERSET  
**Notification Date:** 09/26/1994  
**Category:** 72 HR  
**Associated ID:** Not reported  
**Phase:** Not reported  
**Response Action Outcome:** B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.  
**Oil Or Haz Material:** Oil  
**Location Type:** RESIDENTIAL  
**Source:** UST

[Click here to access the MA DEP site for this facility:](#)

**Chemicals:**  
**Chemical:** #2 FUEL OIL  
**Quantity:** 188 parts per million



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**HAROLD ST (Continued)****S102088162**

Chemical:	#2 FUEL OIL
Quantity:	277 parts per million
Actions:	
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	1/5/1995
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	1/5/1995
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	RLFA
Action Status:	FLDD1U
Action Date:	10/18/2011
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Level II - Audit Inspection
Action Date:	11/23/2011
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	11/23/2011
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	11/26/2001
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Level I - Technical Screen Audit
Action Date:	11/26/2001
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	11/26/2001
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAROLD ST (Continued)**

**S102088162**

AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Status: Amendment Received or Issued  
Action Date: 3/15/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Status: Legal Notice Published  
Action Date: 3/6/2002  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Status: Legal Notice Published  
Action Date: 9/20/1995  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/25/1995  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 9/25/1995  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/26/1994  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 9/28/1994  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Immediate Response Action  
Action Status: IRA Assessment Only  
Action Date: 9/29/1994  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAROLD ST (Continued)**

**S102088162**

INST CONTROL:

Release Tracking Number: 4-0010795  
Action Type: AUL  
Action Stat: AMEND  
Action Date: 03/15/2002  
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0010795  
Action Type: AUL  
Action Stat: LEGNOT  
Action Date: 03/06/2002  
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0010795  
Action Type: AUL  
Action Stat: LEGNOT  
Action Date: 09/20/1995  
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0010795  
Action Type: AUL  
Action Stat: RECPT  
Action Date: 09/25/1995  
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0010795  
Action Type: AUL  
Action Stat: SNAUDI  
Action Date: 11/23/2011  
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0010795  
Action Type: AUL  
Action Stat: TSAUD  
Action Date: 11/26/2001  
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release:

Release Tracking Number/Current Status: 4-0010795 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 09/26/1994  
Category: 72 HR  
Status Date: 09/25/1995

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HAROLD ST (Continued)**

**S102088162**

Phase: Not reported  
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.  
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 1/5/1995  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/5/1995  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA  
Action Status: FLDD1U  
Action Date: 10/18/2011  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Status: Level II - Audit Inspection  
Action Date: 11/23/2011  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit  
Action Status: NAFNVD  
Action Date: 11/23/2011  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Compliance and Enforcement Action  
Action Status: Interim Deadline Letter Issued  
Action Date: 11/26/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Status: Level I - Technical Screen Audit  
Action Date: 11/26/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**HAROLD ST (Continued)****S102088162**

Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	11/26/2001
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Amendment Received or Issued
Action Date:	3/15/2002
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Legal Notice Published
Action Date:	3/6/2002
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Legal Notice Published
Action Date:	9/20/1995
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	9/25/1995
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	9/25/1995
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	9/26/1994
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	9/28/1994
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Immediate Response Action

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site \_\_\_\_\_ Database(s) \_\_\_\_\_ EDR ID Number  
EPA ID Number

**HAROLD ST (Continued)**

**S102088162**

Action Status: IRA Assessment Only  
Action Date: 9/29/1994  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Chemicals:  
Chemical: #2 FUEL OIL  
Quantity: 188 parts per million  
Chemical: #2 FUEL OIL  
Quantity: 277 parts per million  
Location Type: RESIDENTIAL  
Source: UST

**8**  
**West**  
**1/4-1/2**  
**0.254 mi.**  
**1339 ft.**

**NO LOCATION AID**  
**1193 READ ST**  
**SOMERSET, MA**

**MA LAST** **S108348058**  
**MA RELEASE** **N/A**

**Relative:**  
**Lower**  
**Actual:**  
**146 ft.**

LAST:  
Release Tracking Number/Current Status: 4-0020152 / RAO  
Source Type: AST  
Release Town: SOMERSET  
Notification Date: 11/07/2006  
Category: TWO HR  
Associated ID: Not reported  
Status Date: 10/17/2007  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil Or Haz Material: Oil  
Chemicals:  
Chemical: #2 FUEL OIL  
Quantity: Not reported  
Location Type: RESIDENTIAL  
Source: AST  
Actions:  
Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/3/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.  
Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 10/17/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.  
Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 10/17/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**NO LOCATION AID (Continued)****S108348058**

Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	10/18/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	11/14/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FLDD1A
Action Date:	11/16/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	11/16/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	11/17/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	11/30/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	11/7/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	11/9/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	12/13/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	12/13/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S108348058**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 12/29/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 12/29/2006

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 3/12/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 3/14/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 7/31/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 7/31/2007

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status: 4-0020152 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 11/07/2006  
Category: TWO HR  
Status Date: 10/17/2007  
Phase: Not reported

Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Immediate Response Action



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**NO LOCATION AID (Continued)****S108348058**

Action Status:	Level I - Technical Screen Audit
Action Date:	1/3/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	10/17/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	10/17/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Fee Received - FMCRA Use Only
Action Date:	10/18/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FOLOFF
Action Date:	11/14/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RLFA
Action Status:	FLDD1A
Action Date:	11/16/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	11/16/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	11/17/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	11/30/2007
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	11/7/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

## NO LOCATION AID (Continued)

S108348058

reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 11/9/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 12/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 12/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 12/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 12/29/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 3/12/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 3/14/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Status or Interim Report Received  
Action Date: 7/31/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 7/31/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
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**NO LOCATION AID (Continued)**

**S108348058**

Chemicals:  
 Chemical: #2 FUEL OIL  
 Quantity: Not reported  
 Location Type: RESIDENTIAL  
 Source: AST

**9**  
**SW**  
 1/4-1/2  
 0.354 mi.  
 1870 ft.

**NO LOCATION AID**  
**1072 GRAND ARMY REPUBLIC HWY**  
**SOMERSET, MA**

**MA SHWS S102088623**  
**MA RELEASE N/A**

**Relative:**  
**Lower**  
**Actual:**  
**131 ft.**

SHWS:  
 Facility ID: 4-0017907  
 Source Type: UNKNOWN  
 Release Town: SOMERSET  
 Notification Date: 07/09/2003  
 Category: 120 DY  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 05/22/2007  
 Phase: PHASE IV  
 Response Action Outcome: A2  
 Oil Or Haz Material: Oil and Hazardous Material

Facility ID: 4-0011851  
 Source Type: UNKNOWN  
 Release Town: SOMERSET  
 Notification Date: 12/18/1995  
 Category: 120 DY  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 11/13/1996  
 Phase: Not reported  
 Response Action Outcome: A2  
 Oil Or Haz Material: Hazardous Material

Release:  
 Release Tracking Number/Current Status: 4-0011851 / RAO  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 12/18/1995  
 Category: 120 DY  
 Status Date: 11/13/1996  
 Phase: Not reported  
 Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
 Oil / Haz Material Type: Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

Actions:  
 Action Type: An activity type that is related to an Audit  
 Action Status: FOLCD  
 Action Date: 10/1/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

NO LOCATION AID (Continued)

S102088623

Site Database(s) EDR ID Number EPA ID Number

reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 11/13/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 11/8/1996  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 12/18/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 12/18/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 12/21/1995  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: An activity type that is related to an Audit  
Action Status: NOA  
Action Date: 4/7/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: An activity type that is related to an Audit  
Action Status: Interim Deadline Letter Issued  
Action Date: 7/23/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: An activity type that is related to an Audit  
Action Status: NAFNVD  
Action Date: 7/23/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Revised Statement or Transmittal Received  
Action Date: 9/22/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S102088623**

Chemicals:

Chemical: UNKNOWN CHEMICAL OF TYPE - HAZARDOUS MATERIAL  
Quantity: 2900 micrograms per liter  
Location Type: COMMERCIAL  
Source: UNKNOWN

Release Tracking Number/Current Status: 4-0017907 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 07/09/2003  
Category: 120 DY  
Status Date: 05/22/2007  
Phase: PHASE IV  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil and Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Release Abatement Measure  
Action Status: Level I - Technical Screen Audit  
Action Date: 10/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Status or Interim Report Received  
Action Date: 10/6/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Status or Interim Report Received  
Action Date: 11/18/2003  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 12/16/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Level I - Technical Screen Audit  
Action Date: 12/29/2005  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 2/22/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**NO LOCATION AID (Continued)**

**S102088623**

Site Database(s) EDR ID Number EPA ID Number

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 2/23/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Level I - Technical Screen Audit  
Action Date: 2/28/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 3/31/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Level I - Technical Screen Audit  
Action Date: 4/13/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 4/5/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Status or Interim Report Received  
Action Date: 4/7/2006  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 5/22/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 6/17/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Phase 1  
Action Status: Completion Statement Received  
Action Date: 6/21/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Tier Classification  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 6/21/2004

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**NO LOCATION AID (Continued)****S102088623**

Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	6/21/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	6/25/2004
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	6/29/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	6/29/2006
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Fee Received - FMCRA Use Only
Action Date:	7/14/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	7/29/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	7/9/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	7/9/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	7/9/2003
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NO LOCATION AID (Continued)**

**S102088623**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
 Action Date: 8/19/2003  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 9/6/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:

Chemical: C9 THRU C10 AROMATIC HYDROCARBONS  
 Quantity: 240 parts per million  
 Chemical: 2-METHYLNAPHTHALENE  
 Quantity: 9 parts per million  
 Chemical: TPH  
 Quantity: 1430 parts per million  
 Chemical: NAPHTHALENE  
 Quantity: 4.38 parts per million  
 Chemical: C11 THRU C22 AROMATIC HYDROCARBONS  
 Quantity: 340 parts per million  
 Source: UNKNOWN

**B10**  
**SW**  
**1/4-1/2**  
**0.358 mi.**  
**1890 ft.**

**FORMER MOBIL**  
**992 GRAND ARMY HWY (RTE 6)**  
**SOMERSET, MA 02726**

**MA SHWS** **S109029278**  
**MA LUST** **N/A**  
**MA RELEASE**

**Site 1 of 4 in cluster B**

**Relative:**  
**Lower**  
**Actual:**  
**137 ft.**

SHWS:  
 Facility ID: 4-0021091  
 Source Type: Not reported  
 Release Town: SOMERSET  
 Notification Date: 02/20/2008  
 Category: 120 DY  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 08/07/2008  
 Phase: Not reported  
 Response Action Outcome: Not reported  
 Oil Or Haz Material: Oil and Hazardous Material

LUST:

Facility:

**Current Status: Not reported**  
 Release Tracking Number/Current Status: 4-0020922 / RAO  
 Status Date: 08/07/2008  
 Source Type: UST  
 Release Town: SOMERSET  
 Notification Date: 11/28/2007  
 Category: 72 HR  
 Associated ID: Not reported  
 Phase: Not reported  
 Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER MOBIL (Continued)****S109029278**

Oil Or Haz Material: been reduced to background.  
Oil

Location Type: PRIVPROP  
Location Type: COMMERCIAL  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:  
Chemical: WASTE OIL  
Quantity: 231 parts per million

Actions:

Action Type: BOL  
Action Status: SHPFAC  
Action Date: 1/20/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 1/24/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Modified Revised or Updated Plan Received  
Action Date: 1/24/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 1/25/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 1/25/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 11/28/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 11/28/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER MOBIL (Continued)**

**S109029278**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 12/12/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 12/12/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 2/2/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 8/7/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 9/26/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/28/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**Release:**

Release Tracking Number/Current Status: 4-0020922 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 11/28/2007  
Category: 72 HR  
Status Date: 08/07/2008  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

**Actions:**

Action Type: BOL  
Action Status: SHPFAC  
Action Date: 1/20/2012  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER MOBIL (Continued)****S109029278**

reduced to background.

Action Type: Release Abatement Measure  
 Action Status: Completion Statement Received  
 Action Date: 1/24/2012  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
 Action Status: Modified Revised or Updated Plan Received  
 Action Date: 1/24/2012  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
 Action Status: Completion Statement Received  
 Action Date: 1/25/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE  
 Action Status: Transmittal, Notice, or Notification Received  
 Action Date: 1/25/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 11/28/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 11/28/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
 Action Date: 12/12/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BOL  
 Action Status: Transmittal, Notice, or Notification Received  
 Action Date: 12/12/2011  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 2/2/2008  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER MOBIL (Continued)**

**S109029278**

Action Status: RAO Statement Received  
Action Date: 8/7/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 9/26/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/28/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: WASTE OIL  
Quantity: 231 parts per million  
Location Type: PRIVPROP  
Location Type: COMMERCIAL  
Source: UST

Release Tracking Number/Current Status: 4-0021091 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 02/20/2008  
Category: 120 DY  
Status Date: 08/07/2008  
Phase: Not reported  
Response Action Outcome: -  
Oil / Haz Material Type: Oil and Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 2/20/2008  
Response Action Outcome: Not reported

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 2/20/2008  
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 4/30/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 8/7/2008  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER MOBIL (Continued)**

**S109029278**

Chemicals:  
 Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS  
 Quantity: 7710 milligrams per kilogram  
 Chemical: NICKEL  
 Quantity: 25.7 milligrams per kilogram  
 Chemical: ACENAPHTHYLENE  
 Quantity: 1.05 milligrams per kilogram  
 Chemical: C11 THRU C22 AROMATIC HYDROCARBONS  
 Quantity: 2260 milligrams per kilogram

**B11  
SW  
1/4-1/2  
0.358 mi.  
1890 ft.**

**CUMBERLAND FARMS V1949  
992 GRAND ARMY HWY  
SOMERSET, MA 02726**

**MA SHWS  
MA RELEASE  
MA HW GEN**

**S113410486  
N/A**

**Site 2 of 4 in cluster B**

**Relative:  
Lower  
Actual:  
137 ft.**

SHWS:  
 Facility ID: 4-0024629  
 Source Type: VEHICLE  
 Release Town: SOMERSET  
 Notification Date: 06/25/2013  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 08/24/2013  
 Phase: Not reported  
 Response Action Outcome: A1  
 Oil Or Haz Material: Oil

Facility ID: 4-0026045  
 Source Type: VEHICLE  
 Release Town: SOMERSET  
 Notification Date: 04/06/2016  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: PSNC  
 Status Date: 04/29/2016  
 Phase: Not reported  
 Response Action Outcome: PN  
 Oil Or Haz Material: Not reported

Facility ID: 4-0026045  
 Source Type: HOSE  
 Release Town: SOMERSET  
 Notification Date: 04/06/2016  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: PSNC  
 Status Date: 04/29/2016  
 Phase: Not reported  
 Response Action Outcome: PN  
 Oil Or Haz Material: Not reported

Release:  
 Release Tracking Number/Current Status: 4-0024629 / RAO  
 Primary ID: Not reported  
 Official City: SOMERSET

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS V1949 (Continued)**

**S113410486**

Notification: 06/25/2013  
 Category: TWO HR  
 Status Date: 08/24/2013  
 Phase: Not reported  
 Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
 Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 6/25/2013  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 6/25/2013  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
 Action Date: 7/9/2013  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNFE  
 Action Status: Transmittal, Notice, or Notification Received  
 Action Date: 8/23/2013  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
 Action Status: RAO Statement Received  
 Action Date: 8/24/2013  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

**Chemicals:**

Chemical: GASOLINE  
 Quantity: 12 gallons  
 Location Type: COMMERCIAL  
 Source: VEHICLE

Release Tracking Number/Current Status: 4-0026045 / PSNC  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 04/06/2016  
 Category: TWO HR  
 Status Date: 04/29/2016  
 Phase: Not reported  
 Response Action Outcome: PN - PN  
 Oil / Haz Material Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CUMBERLAND FARMS V1949 (Continued)**

**S113410486**

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
 Action Date: 4/13/2016  
 Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
 Action Status: PSNRCD  
 Action Date: 4/29/2016  
 Response Action Outcome: PN

Action Type: RNFE  
 Action Status: Transmittal, Notice, or Notification Received  
 Action Date: 4/29/2016  
 Response Action Outcome: PN

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 4/6/2016  
 Response Action Outcome: PN

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 4/6/2016  
 Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 5/16/2016  
 Response Action Outcome: PN

**Chemicals:**

Chemical: Not reported  
 Quantity: Not reported  
 Location Type: COMMERCIAL  
 Source: HOSE  
 Source: VEHICLE

**HW GEN:**

Name: CUMBERLAND FARMS V1949  
 Address: 992 GRAND ARMY HWY  
 City, State, Zip: SOMERSET, MA 02726  
 EPA Id: MV5086791261  
 RCRA Generator Status: VSQG  
 State Generator Status: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B12**  
**SW**  
**1/4-1/2**  
**0.358 mi.**  
**1890 ft.**

**MOBIL STATION, FMR.**  
**992 GRAND ARMY HWY**  
**SOMERSET, MA**

**MA LUST** **S108962804**  
**MA RELEASE** **N/A**

**Site 3 of 4 in cluster B**

**Relative:**  
**Lower**

LUST:

**Actual:**  
**137 ft.**

Facility:

**Current Status:** **Not reported**  
Release Tracking Number/Current Status: 4-0020951 / RAO  
Status Date: 08/07/2008  
Source Type: UST  
Release Town: SOMERSET  
Notification Date: 12/11/2007  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: -  
Oil Or Haz Material: Not reported  
  
Location Type: COMMERCIAL  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: SOIL HEADSPACE  
Quantity: 260 parts per million

Actions:

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 12/11/2007  
Response Action Outcome: Not reported

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 12/11/2007  
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 12/18/2007  
Response Action Outcome: Not reported

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 2/7/2008  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 2/7/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**MOBIL STATION, FMR. (Continued)****S108962804**

Action Date: 8/7/2008  
Response Action Outcome: Not reported

## Release:

Release Tracking Number/Current Status: 4-0020951 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 12/11/2007  
Category: 72 HR  
Status Date: 08/07/2008  
Phase: Not reported  
Response Action Outcome: -  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

## Actions:

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 12/11/2007  
Response Action Outcome: Not reported

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 12/11/2007  
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 12/18/2007  
Response Action Outcome: Not reported

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 2/7/2008  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 2/7/2008  
Response Action Outcome: Not reported

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 8/7/2008  
Response Action Outcome: Not reported

## Chemicals:

Chemical: SOIL HEADSPACE  
Quantity: 260 parts per million  
Location Type: COMMERCIAL  
Source: UST

MAP FINDINGS

Map ID			
Direction			
Distance			EDR ID Number
Elevation	Site	Database(s)	EPA ID Number

<b>B13</b>	<b>CUMBERLAND FARMS GAS STATION</b>	<b>MA SHWS</b>	<b>S123244442</b>
<b>SW</b>	<b>992 G.A.R HWY</b>	<b>MA RELEASE</b>	<b>N/A</b>
<b>1/4-1/2</b>	<b>SOMERSET, MA</b>		
<b>0.365 mi.</b>			
<b>1925 ft.</b>	<b>Site 4 of 4 in cluster B</b>		

**Relative:** SHWS:

<b>Lower</b>	Facility ID:	4-0027337
	Source Type:	OVERFILL
	Release Town:	SOMERSET
	Notification Date:	07/16/2018
	Category:	TWO HR
	Associated ID:	Not reported
	Current Status:	PSNC
	Status Date:	09/05/2018
	Phase:	Not reported
	Response Action Outcome:	PN
	Oil Or Haz Material:	Not reported

**Release:**

Release Tracking Number/Current Status:	4-0027337 / PSNC
Primary ID:	Not reported
Official City:	SOMERSET
Notification:	07/16/2018
Category:	TWO HR
Status Date:	09/05/2018
Phase:	Not reported
Response Action Outcome:	PN - PN
Oil / Haz Material Type:	Not reported

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	7/16/2018
Response Action Outcome:	PN
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	9/5/2018
Response Action Outcome:	PN
Action Type:	Response Action Outcome - RAO
Action Status:	PSNRCD
Action Date:	9/5/2018
Response Action Outcome:	PN

**Chemicals:**

Chemical:	Not reported
Quantity:	Not reported
Location Type:	COMMERCIAL
Source:	OVERFILL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**14**  
**WSW**  
**1/4-1/2**  
**0.375 mi.**  
**1982 ft.**

**RT-6 ROADWAY**  
**1160 GAR HWY**  
**SOMERSET, MA 02726**

**MA SHWS**    **S121394508**  
**MA RELEASE**    **N/A**

**Relative:**  
**Lower**  
**Actual:**  
**124 ft.**

SHWS:  
Facility ID: 4-0026988  
Source Type: VEHICLE  
Release Town: SOMERSET  
Notification Date: 12/08/2017  
Category: TWO HR  
Associated ID: Not reported  
Current Status: PSNC  
Status Date: 12/22/2017  
Phase: Not reported  
Response Action Outcome: PN  
Oil Or Haz Material: Not reported

Release:  
Release Tracking Number/Current Status: 4-0026988 / PSNC  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 12/08/2017  
Category: TWO HR  
Status Date: 12/22/2017  
Phase: Not reported  
Response Action Outcome: PN - PN  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 10/26/2018  
Response Action Outcome: PN

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 12/12/2017  
Response Action Outcome: PN

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 12/22/2017  
Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
Action Status: PSNRCD  
Action Date: 12/22/2017  
Response Action Outcome: PN

Action Type: RLFA  
Action Status: FLDD1U  
Action Date: 12/8/2017  
Response Action Outcome: PN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**RT-6 ROADWAY (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 12/8/2017  
 Response Action Outcome: PN

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 12/8/2017  
 Response Action Outcome: PN

Chemicals:  
 Chemical: Not reported  
 Quantity: Not reported  
 Location Type: ROADWAY  
 Source: VEHICLE

**S121394508**

**15**  
**WSW**  
**1/4-1/2**  
**0.436 mi.**  
**2301 ft.**

**IN FRONT OF HORNER MILL WORKS**  
**IN FRONT OF 1255 GRAND ARMY HWY**  
**SOMERSET, MA**

**MA SHWS S108476934**  
**MA RELEASE N/A**

**Relative:**  
**Lower**  
**Actual:**  
**107 ft.**

SHWS:  
 Facility ID: 4-0020357  
 Source Type: FUELTANK  
 Release Town: SOMERSET  
 Notification Date: 03/01/2007  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 04/30/2007  
 Phase: Not reported  
 Response Action Outcome: A1  
 Oil Or Haz Material: Not reported

Facility ID: 4-0020357  
 Source Type: VEHICLE  
 Release Town: SOMERSET  
 Notification Date: 03/01/2007  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 04/30/2007  
 Phase: Not reported  
 Response Action Outcome: A1  
 Oil Or Haz Material: Not reported

Release:  
 Release Tracking Number/Current Status: 4-0020357 / RAO  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 03/01/2007  
 Category: TWO HR  
 Status Date: 04/30/2007  
 Phase: Not reported  
 Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**IN FRONT OF HORNER MILL WORKS (Continued)****S108476934**

Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

## Actions:

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 3/1/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 3/1/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
 Action Date: 3/9/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
 Action Status: RAO Statement Received  
 Action Date: 4/30/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 4/30/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 5/25/2007  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

## Chemicals:

Chemical: DIESEL  
 Quantity: 20 gallons  
 Location Type: STATE  
 Location Type: ROADWAY  
 Source: FUEL TANK  
 Source: VEHICLE

MAP FINDINGS

Map ID			
Direction			
Distance			EDR ID Number
Elevation	Site	Database(s)	EPA ID Number

<b>16</b> <b>SSW</b> <b>1/4-1/2</b> <b>0.454 mi.</b> <b>2397 ft.</b>	<b>PROPERTY</b> <b>718 GRAND ARMY REBULIC HWY</b> <b>SWANSEA, MA 02777</b>	<b>MA SHWS</b> <b>MA RELEASE</b>	<b>S101856653</b> <b>N/A</b>
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**Relative:** SHWS:  
**Higher** Facility ID: 4-0006030  
Source Type: Not reported  
**Actual:** Release Town: SWANSEA  
**149 ft.** Notification Date: 02/16/1994  
Category: NONE  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 01/06/1995  
Phase: Not reported  
Response Action Outcome: A1  
Oil Or Haz Material: Not reported

Release:  
Release Tracking Number/Current Status: 4-0006030 / RAO  
Primary ID: Not reported  
Official City: SWANSEA  
Notification: 02/16/1994  
Category: NONE  
Status Date: 01/06/1995  
Phase: Not reported  
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	1/6/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	1/6/1995
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	2/16/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type:	Compliance and Enforcement Action
Action Status:	Interim Deadline Letter Issued
Action Date:	2/16/1994
Response Action Outcome:	A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PROPERTY (Continued)**

**S101856653**

Action Type: Release Disposition  
 Action Status: Valid Transition Site  
 Action Date: 2/16/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Abatement Measure  
 Action Status: Written Plan Received  
 Action Date: 9/22/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: TREGS  
 Action Status: LSPFA  
 Action Date: 9/22/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:  
 Chemical: UNKNOWN  
 Quantity: Not reported

**C17**  
**ESE**  
**1/4-1/2**  
**0.473 mi.**  
**2500 ft.**

**BAKERS GULF**  
**3 COUNTY ST**  
**SOMERSET, MA**  
  
**Site 1 of 2 in cluster C**

**MA SHWS** **S102555568**  
**MA RELEASE** **N/A**

**Relative:**  
**Lower**  
  
**Actual:**  
**13 ft.**

SHWS:  
 Facility ID: 4-0012663  
 Source Type: Not reported  
 Release Town: SOMERSET  
 Notification Date: 11/22/1996  
 Category: 120 DY  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 11/28/1997  
 Phase: PHASE II  
 Response Action Outcome: B1  
 Oil Or Haz Material: Not reported

Release:  
 Release Tracking Number/Current Status: 4-0012663 / RAO  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 11/22/1996  
 Category: 120 DY  
 Status Date: 11/28/1997  
 Phase: PHASE II  
 Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.  
 Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BAKERS GULF (Continued)**

**S102555568**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 1/3/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: FLDISS  
Action Date: 11/22/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 11/22/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 11/22/1996  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Phase 1  
Action Status: Completion Statement Received  
Action Date: 11/28/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 11/28/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 12/1/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 3/4/1997  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemicals:  
Chemical: GASOLINE VAPORS  
Quantity: Not reported  
Location Type: COMMERCIAL  
Location Type: ROADWAY



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

18  
SW  
1/4-1/2  
0.493 mi.  
2602 ft.

**SOMER MOTORS INC**  
**1491 BRAYTON POINT RD**  
**SOMERSET, MA 02725**

**MA LUST** 1000312878  
**MA RELEASE** N/A  
**MA HW GEN**  
**MA TIER 2**

Relative:  
Lower

LUST:

Facility:

Actual:  
126 ft.

**Current Status:** Not reported  
Release Tracking Number/Current Status: 4-0013093 / RAO  
Status Date: 10/27/1997  
Source Type: UST  
Release Town: SOMERSET  
Notification Date: 06/13/1997  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil Or Haz Material: Oil  
Location Type: COMMERCIAL  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: WASTE OIL  
Quantity: 100 parts per million

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 10/27/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 10/27/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 10/31/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FLDD1U  
Action Date: 11/3/2009  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**SOMER MOTORS INC (Continued)**

**1000312878**

Action Date: 6/13/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 6/13/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 6/19/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 8/11/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:

Release Tracking Number/Current Status: 4-0013093 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 06/13/1997  
Category: 72 HR  
Status Date: 10/27/1997  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 10/27/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 10/27/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 10/31/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**SOMER MOTORS INC (Continued)****1000312878**

Action Type: RLFA  
 Action Status: FLDD1U  
 Action Date: 11/3/2009  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 6/13/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 6/13/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
 Action Date: 6/19/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 8/11/1997  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
 Chemical: WASTE OIL  
 Quantity: 100 parts per million  
 Location Type: COMMERCIAL  
 Source: UST

HW GEN:  
 Name: SOMER MOTORS INC  
 Address: 1491 BRAYTON POINT RD  
 City,State,Zip: SOMERSET, MA 02725  
 EPA Id: MAR000546242  
 RCRA Generator Status: VSQG  
 State Generator Status: LQG-MA

Name: SOMERSET CHRYSLER JEEP  
 Address: 1491 BRAYTON POINT RD  
 City,State,Zip: SOMERSET, MA 02725  
 EPA Id: MAD985267806  
 RCRA Generator Status: VSQG  
 State Generator Status: LQG-MA

TIER 2:  
 Name: STATE LINE CHRYSLER JEEP DODGE RAM  
 Address: 1491 BRAYTON POINT RD.  
 City,State,Zip: SOMERSET, MA 02725  
 Report Year: 2018

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**SOMER MOTORS INC (Continued)**

**1000312878**

Facility Id: FATR2018000000041497  
 Facility Dept: Not reported  
 Latitude: 41.730800  
 Longitude: -71.174000  
 Mailing Address: 1491 Brayton Point Rd.  
 Mailing City/State/Zip: 02725  
 Mailing Country: Not reported  
 Notes: Not reported  
 All Chemicals Same As Last Yr: Not reported  
 Date Signed: 2019-03-29  
 Dike Or Other Safeguard: Not reported  
 Failed Validation: Not reported  
 Date Modified: 03/28/2019  
 Fees Total: Not reported  
 Num Of Employees: 20  
 Site Coord Abbreviated?: false  
 Site Map: Not reported  
 State Label Code: Not reported  
 Submitted By: Not reported  
 Validation Report: Not reported  
 Fire District: Not reported  
 Latlong Location Description: Not reported  
 Latlong Method: Not reported

Record Key: FDTR2018000000034225  
 Id: Not reported  
 Type: EIN  
 Description: Not reported  
 Last Modified: Not reported

Record Key: FDTR2018000000034226  
 Id: Not reported  
 Type: RMP  
 Description: Not reported  
 Last Modified: Not reported

Record Key: FDTR2018000000034227  
 Id: Not reported  
 Type: SIC  
 Description: Not reported  
 Last Modified: Not reported

Record Key: FDTR2018000000034228  
 Id: Not reported  
 Type: State ID  
 Description: Not reported  
 Last Modified: Not reported

Record Key: FDTR2018000000034229  
 Id: Not reported  
 Type: TRI  
 Description: Not reported  
 Last Modified: Not reported

Record Key: FDTR2018000000034230  
 Id: Not reported  
 Type: T2M Facility ID

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**SOMER MOTORS INC (Continued)**

**1000312878**

Description: Not reported  
 Last Modified: Not reported

Record Key: FDTR201800000034231  
 Id: Not reported  
 Type: NAICS  
 Description: Not reported  
 Last Modified: Not reported

Record Key: FDTR201800000034232  
 Id: Not reported  
 Type: DUN & BradStreet  
 Description: Not reported  
 Last Modified: Not reported

Contact:  
 Report Year: 2018  
 Contact Record Id: CTTR2018384299P41497  
 Title: Not reported  
 Contact Name: Not reported  
 Contact Email: Not reported  
 Contact Mail Address: 1491 Brayton Point Rd.  
 Contact Mail City: Somerset  
 Contact Mail State: MA  
 Contact Mail Zip: 02725  
 Contact Mail Country: US  
 Contact1 Type: Other  
 Contact2 Type: Not reported  
 Contact3 Type: Not reported  
 Contact4 Type: Not reported  
 Modification Date: 1900-01-01

Contact:  
 Report Year: 2018  
 Contact Record Id: CTTR2018155632P41497  
 Title: Not reported  
 Contact Name: Batteries  
 Contact Email: Not reported  
 Contact Mail Address: 78 County St.  
 Contact Mail City: East Freetown  
 Contact Mail State: MA  
 Contact Mail Zip: 02717  
 Contact Mail Country: Not reported  
 Contact1 Type: Carrier Contact  
 Contact2 Type: Not reported  
 Contact3 Type: Not reported  
 Contact4 Type: Not reported  
 Modification Date: 1900-01-01

Contact:  
 Report Year: 2018  
 Contact Record Id: CTTR2018384296P41497  
 Title: Not reported  
 Contact Name: Kardon

MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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**SOMER MOTORS INC (Continued)**

**1000312878**

Contact Email: ekardon@route24auto.com  
 Contact Mail Address: 1016 Belmont St.  
 Contact Mail City: Brockton  
 Contact Mail State: MA  
 Contact Mail Zip: 02301  
 Contact Mail Country: US  
 Contact1 Type: Owner / Operator  
 Contact2 Type: Not reported  
 Contact3 Type: Not reported  
 Contact4 Type: Not reported  
 Modification Date: 1900-01-01

Contact:  
 Report Year: 2018  
 Contact Record Id: CTTR2018384349P41497  
 Title: Service Manager  
 Contact Name: Bowman  
 Contact Email: dbowman@route24auto.com  
 Contact Mail Address: Not reported  
 Contact Mail City: Not reported  
 Contact Mail State: Not reported  
 Contact Mail Zip: Not reported  
 Contact Mail Country: Not reported  
 Contact1 Type: Tier II Information Contact  
 Contact2 Type: Not reported  
 Contact3 Type: Not reported  
 Contact4 Type: Not reported  
 Modification Date: 1900-01-01

Contact:  
 Report Year: 2018  
 Contact Record Id: CTTR2018384350P41497  
 Title: Service Manager  
 Contact Name: Bowman  
 Contact Email: dbowman@route24auto.com  
 Contact Mail Address: Not reported  
 Contact Mail City: Not reported  
 Contact Mail State: Not reported  
 Contact Mail Zip: Not reported  
 Contact Mail Country: Not reported  
 Contact1 Type: Fac. Emergency Coordinator  
 Contact2 Type: Not reported  
 Contact3 Type: Not reported  
 Contact4 Type: Not reported  
 Modification Date: 1900-01-01

Contact:  
 Report Year: 2018  
 Contact Record Id: CTTR2018384351P41497  
 Title: Service Manager  
 Contact Name: Bowman  
 Contact Email: dbowman@route24auto.com  
 Contact Mail Address: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**SOMER MOTORS INC (Continued)**

**1000312878**

Contact Mail City: Not reported  
 Contact Mail State: Not reported  
 Contact Mail Zip: Not reported  
 Contact Mail Country: Not reported  
 Contact1 Type: Emergency Contact  
 Contact2 Type: Not reported  
 Contact3 Type: Not reported  
 Contact4 Type: Not reported  
 Modification Date: 1900-01-01

Contact:  
 Report Year: 2018  
 Contact Record Id: CTTR2018384352P41497  
 Title: General Manager  
 Contact Name: Viera  
 Contact Email: al@route24auto.com  
 Contact Mail Address: Not reported  
 Contact Mail City: Not reported  
 Contact Mail State: Not reported  
 Contact Mail Zip: Not reported  
 Contact Mail Country: Not reported  
 Contact1 Type: Emergency Contact  
 Contact2 Type: Not reported  
 Contact3 Type: Not reported  
 Contact4 Type: Not reported  
 Modification Date: 1900-01-01

Contact:  
 Report Year: 2018  
 Contact Record Id: CTTR2018384297P41497  
 Title: Not reported  
 Contact Name: Not reported  
 Contact Email: Not reported  
 Contact Mail Address: Not reported  
 Contact Mail City: Not reported  
 Contact Mail State: Not reported  
 Contact Mail Zip: Not reported  
 Contact Mail Country: Not reported  
 Contact1 Type: Billing  
 Contact2 Type: Not reported  
 Contact3 Type: Not reported  
 Contact4 Type: Not reported  
 Modification Date: 1900-01-01

Contact:  
 Report Year: 2018  
 Contact Record Id: CTTR2018384295P41497  
 Title: Not reported  
 Contact Name: Not reported  
 Contact Email: Not reported  
 Contact Mail Address: Not reported  
 Contact Mail City: Not reported  
 Contact Mail State: MA

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**SOMER MOTORS INC (Continued)**

**1000312878**

Contact Mail Zip: Not reported  
 Contact Mail Country: US  
 Contact1 Type: Parent Company  
 Contact2 Type: Not reported  
 Contact3 Type: Not reported  
 Contact4 Type: Not reported  
 Modification Date: 1900-01-01

Chemicals:

Acute: Not reported  
 Ave Amount: Not reported  
 Ave Amount Code: Not reported  
 Chem Inv Record Id: CVTR2018000000155632  
 Chem Same As Last Yr: false  
 Chronic: Not reported  
 CICAS: Not reported  
 CI EHS Chemical: false  
 CI Last Modified: 2019-03-29  
 Days On Site: 365  
 Entered Chemical Name: Lead Acid Batteries  
 Fire: Not reported  
 Gas: false  
 Liquid: false  
 Max Amount: 5.600  
 Max Amount Code: 5  
 Max Amt Container: 35  
 Mixture: true  
 Pressure: Not reported  
 Pure: false  
 Reactive: Not reported  
 Solid: true  
 State01 Checkbox: Not reported  
 State01 Number: Not reported  
 State01 Text: Not reported  
 State02 Checkbox: Not reported  
 State02 Number: Not reported  
 State02 Text: Not reported  
 State03 Checkbox: Not reported  
 State03 Number: Not reported  
 State03 Text: Not reported  
 State04 Checkbox: Not reported  
 State04 Number: Not reported  
 State04 Text: Not reported  
 State05 Checkbox: Not reported  
 State05 Text: Not reported  
 State06 Checkbox: Not reported  
 State06 Text: Not reported  
 State07 Checkbox: Not reported  
 State07 Text: Not reported  
 State1 Contact Field: Not reported  
 State Label Code: Not reported  
 Trade Secret: false

Location:

Record Key: CLTR201800000S428637  
 Chem Inv Record Id: CVTR2018000000155632



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**SOMER MOTORS INC (Continued)**

**1000312878**

Type Code: Battery  
Pressure Code: Ambient pressure  
Temperature Code: Ambient temperature  
Location: in cars on property  
Amount: 4200  
Amount Unit: lbs  
Last Modified: 2019-03-29

Record Key: CLTR201800000S428638  
Chem Inv Record Id: CVTR201800000155632  
Type Code: Battery  
Pressure Code: Ambient pressure  
Temperature Code: Ambient temperature  
Location: In Parts  
Amount: 1400  
Amount Unit: lbs  
Last Modified: 2019-03-29

Chemical Mixture:  
Record Key: CLTR201800000M166319  
Chem Inv Rec Id: CVTR201800000155632  
Mx Chem: Lead  
Mx CAS: 7439921  
Percentage: Not reported  
Wt Vol: weight  
Mx EHS: false  
Mx Last Modified: 2019-03-29

Record Key: CLTR201800000M166318  
Chem Inv Rec Id: CVTR201800000155632  
Mx Chem: Sulfuric Acid  
Mx CAS: 7664939  
Percentage: Not reported  
Wt Vol: weight  
Mx EHS: true  
Mx Last Modified: 2019-03-29

**C19**  
**ESE**  
**1/2-1**  
**0.503 mi.**  
**2654 ft.**

**VEHICLE ACCIDENT**  
**IN FRONT OF 54 COUNTY STREET**  
**SOMERSET, MA**  
**Site 2 of 2 in cluster C**

**MA SHWS S117277536**  
**MA RELEASE N/A**

**Relative:**  
**Lower**  
**Actual:**  
**18 ft.**

SHWS:  
Facility ID: 4-0025254  
Source Type: VEHICLE  
Release Town: SOMERSET  
Notification Date: 07/31/2014  
Category: TWO HR  
Associated ID: Not reported  
Current Status: PSNC  
Status Date: 12/19/2014  
Phase: Not reported  
Response Action Outcome: PN  
Oil Or Haz Material: Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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Site

Database(s)

EDR ID Number  
EPA ID Number

**VEHICLE ACCIDENT (Continued)****S117277536**

## Release:

Release Tracking Number/Current Status: 4-0025254 / PSNC  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 07/31/2014  
 Category: TWO HR  
 Status Date: 12/19/2014  
 Phase: Not reported  
 Response Action Outcome: PN - PN  
 Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

## Actions:

Action Type: BOL  
 Action Status: Transmittal, Notice, or Notification Received  
 Action Date: 10/31/2014  
 Response Action Outcome: PN

Action Type: Compliance and Enforcement Action  
 Action Status: Notice of Non-Compliance Issued  
 Action Date: 11/19/2014  
 Response Action Outcome: PN

Action Type: Response Action Outcome - RAO  
 Action Status: PSNRCD  
 Action Date: 12/19/2014  
 Response Action Outcome: PN

Action Type: Immediate Response Action  
 Action Status: Completion Statement Received  
 Action Date: 12/19/2014  
 Response Action Outcome: PN

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 7/31/2014  
 Response Action Outcome: PN

Action Type: RLFA  
 Action Status: FLDD1U  
 Action Date: 7/31/2014  
 Response Action Outcome: PN

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 7/31/2014  
 Response Action Outcome: PN

Action Type: RNFE  
 Action Status: Transmittal, Notice, or Notification Received  
 Action Date: 9/3/2014  
 Response Action Outcome: PN

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VEHICLE ACCIDENT (Continued)**

**S117277536**

Action Date: 9/9/2014  
Response Action Outcome: PN

Chemicals:  
Chemical: DIESEL FUEL  
Quantity: Not reported  
Location Type: ROADWAY  
Location Type: COMMERCIAL  
Source: VEHICLE

**20**  
**SSE**  
**1/2-1**  
**0.554 mi.**  
**2923 ft.**

**PETRO-TECH**  
**266 GRAND ARMY REPUBLIC HWY**  
**SOMERSET, MA**

**MA SHWS**  
**MA SPILLS**  
**MA RELEASE**

**S101040313**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**86 ft.**

SHWS:  
Facility ID: 4-0018207  
Source Type: PIPE  
Release Town: SOMERSET  
Notification Date: 01/05/2004  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 12/23/2005  
Phase: Not reported  
Response Action Outcome: A1  
Oil Or Haz Material: Oil

MA Spills:

Facility ID:	9-9999	Spill ID:	S91-0676
Staff Lead:	MORAN, M	Date Entered:	Not reported
Last Entered:	19911114	First Response:	19911106
Spill Date:	Not reported	Spill Time:	Not reported
Report Date:	19911029	Report Time:	10:00AM
Case Closed:	YES	Mat Type:	PETROLEUM
Virgin Waste:	VIRGIN	Contam Soil:	Not reported
Env Impact:	SOIL	Other Impact:	Not reported
Material:	GASOLINE	Other Material:	Not reported
Qty Reported:	11-50	Qty Actual:	-----
Qty Reported:	CUBIC YDS	Qty Actual:	-----
CAS No:	Not reported	PCB Lev (ppm):	-----
Source:	U.S.T.	Other Source:	Not reported
Incident:	OVERFILL	Other Incdnt:	Not reported
Cleanup Type:	SSC	Contractor:	NOT USED
Referral:	NO	LUST Elig:	---
Report Prep:	Not reported	Category:	Not reported
Notifier:	ROBERT GRACIE, SOMERSET BH		
Notif Tel:	Not reported		
Days/Close:	0		

Release:

Release Tracking Number/Current Status: 4-0018207 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 01/05/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PETRO-TECH (Continued)**

**S101040313**

Category: TWO HR  
 Status Date: 12/23/2005  
 Phase: Not reported  
 Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
 Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: Compliance and Enforcement Action  
 Action Status: ACOP  
 Action Date: 1/31/2006  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 1/5/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 1/5/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
 Action Date: 1/9/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
 Action Status: Fee Received - FMCRA Use Only  
 Action Date: 12/23/2005  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
 Action Status: RAO Statement Received  
 Action Date: 12/23/2005  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Compliance and Enforcement Action  
 Action Status: Notice of Non-Compliance Issued  
 Action Date: 3/2/2005  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Compliance and Enforcement Action  
 Action Status: Notice of Non-Compliance Issued  
 Action Date: 5/13/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**PETRO-TECH (Continued)****S101040313**

Action Type: Compliance and Enforcement Action  
 Action Status: Notice of Non-Compliance Issued  
 Action Date: 6/13/2005  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Compliance and Enforcement Action  
 Action Status: Notice of Non-Compliance Issued  
 Action Date: 6/2/2005  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
 Action Status: Fee Not Required - Fee Credited-FMCRA Use Only  
 Action Date: 7/20/2006  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:  
 Chemical: DIESEL FUEL  
 Quantity: 15 gallons  
 Location Type: COMMERCIAL  
 Location Type: ROADWAY  
 Source: PIPE

<b>21</b>	<b>HOME DEPOT</b>	<b>MA SHWS</b>	<b>S106775907</b>
<b>South</b>	<b>535 GAR HIGHWAY RTE 6-BRAYTON POINT RD</b>	<b>MA RELEASE</b>	<b>N/A</b>
<b>1/2-1</b>	<b>SOMERSET, MA</b>		
<b>0.612 mi.</b>			
<b>3231 ft.</b>			

**Relative:** SHWS:  
**Lower** Facility ID: 4-0018798  
 Source Type: TRANSFORM  
**Actual:** Release Town: SOMERSET  
 Notification Date: 11/26/2004  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 01/19/2005  
 Phase: Not reported  
 Response Action Outcome: A2  
 Oil Or Haz Material: Oil

Release:  
 Release Tracking Number/Current Status: 4-0018798 / RAO  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 11/26/2004  
 Category: TWO HR  
 Status Date: 01/19/2005  
 Phase: Not reported  
 Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
 Oil / Haz Material Type: Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HOME DEPOT (Continued)**

**S106775907**

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: Response Action Outcome - RAO  
 Action Status: RAO Statement Received  
 Action Date: 1/19/2005  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 1/19/2005  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 11/26/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 11/26/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
 Action Status: FOLOFF  
 Action Date: 11/26/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
 Action Date: 12/1/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 12/15/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

**Chemicals:**

Chemical: TRANSFORMER OIL  
 Quantity: 100 gallons  
 Location Type: COMMERCIAL  
 Location Type: UTILEASE  
 Source: TRANSFORM

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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MAP FINDINGS

<p><b>22</b>  <b>East</b>  <b>1/2-1</b>  <b>0.687 mi.</b>  <b>3625 ft.</b></p>	<p><b>FORMER FRESHWATER RESERVOIR TANK</b>  <b>1901 RIVERSIDE AVENUE</b>  <b>SOMERSET, MA 02726</b></p>	<p><b>MA SHWS</b>  <b>MA RELEASE</b></p>	<p><b>S122300470</b>  <b>N/A</b></p>
--	---	--	--

**Relative:** SHWS:  
**Lower** Facility ID: 4-0027291  
Source Type: UNKNOWN  
**Actual:** Release Town: SOMERSET  
40 ft. Notification Date: 06/12/2018  
Category: 120 DY  
Associated ID: Not reported  
Current Status: UNCLSS  
Status Date: 06/12/2018  
Phase: Not reported  
Response Action Outcome: Not reported  
Oil Or Haz Material: Not reported

Release:  
Release Tracking Number/Current Status: 4-0027291 / UNCLSS  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 06/12/2018  
Category: 120 DY  
Status Date: 06/12/2018  
Phase: Not reported  
Response Action Outcome: -  
Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	6/12/2018
Response Action Outcome:	Not reported
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	6/12/2018
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	6/28/2018
Response Action Outcome:	Not reported

Chemicals:  
Chemical: Not reported  
Quantity: Not reported  
Source: UNKNOWN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**23**  
**West**  
**1/2-1**  
**0.711 mi.**  
**3754 ft.**

**7-ELEVEN #33227**  
**1693 GRAND ARMY REPUBLIC HWY**  
**SOMERSET, MA 02725**

**MA SHWS** **U003907867**  
**MA UST** **N/A**  
**MA RELEASE**  
**MA HW GEN**

**Relative:**  
**Lower**  
**Actual:**  
**39 ft.**

SHWS:  
Facility ID: 4-0018048  
Source Type: Not reported  
Release Town: SOMERSET  
Notification Date: 09/22/2003  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 12/19/2003  
Phase: Not reported  
Response Action Outcome: B1  
Oil Or Haz Material: Hazardous Material

UST:

Facility:

Name: 7-ELEVEN #33227  
Address: 1693 GRAND ARMY REPUBLIC HWY  
City,State,Zip: SOMERSET, MA 02725  
Facility ID: 22162  
Owner Id: 7911  
Owner: 7-ELEVEN INC  
Owner Address: 1722 ROUTH ST  
Owner City,St,Zip: DALLAS, TX 75221  
Telephone: Not reported  
Description: Not reported  
Facility address 2: Not reported  
Owner address 2: PO BOX 711  
Latitude: 41.73778  
Longitude: -71.18298  
Contact name: Mark Becker  
Contact address1: 47 Fairways Blvd  
Contact address2: Not reported  
Contact city: Williamsville  
Contact state: NY  
Contact zip: 14221  
Contact email: mark.becker@7-11.com  
Update: 2017-05-12 00:00:00  
Update by: Mark Becker  
Fac status: CLOSED

Tank ID: 1  
**Tank Status: Tank Removed**  
Status Date: 05/10/2017  
Date Installed: 11/01/2001  
Capacity: 15000.00000  
Contents: Gasoline  
Tank Usage: Motor Vehi  
Tank Leak Detection: Continuous Interstitial Monitoring  
Pipe Leak Detection: Continuous Interstitial Space Monitoring  
Latitude: Not reported  
Longitude: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

7-ELEVEN #33227 (Continued)

U003907867

Tank construct: Double-walled non-corrodible (including "composite") material (cathodic protection not required)  
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)  
Ptype: Pressurized piping system with mechanical automatic line leak detection  
Number of compartment: Not reported  
Pipe install date: 11/01/2001  
Pipe leak install date: Not reported  
Submersible sump: Y  
Submersible sump install date: 11/01/2001  
Turbine sump: Y  
Turbine sump sensor: Y  
Intermediate sump: N  
Intermediate sump sensor: N  
Spill bucket installed date: 11/01/2001  
Spill bucket sensor: N  
Overfill protect install: 11/01/2001  
Overfill protect type: Automatic shut-off valve  
Automatic line leak detect: 11/01/2001  
Tank corrosion type: Not reported  
Leak corrosion type: Not reported

Tank ID: 2  
**Tank Status: Tank Removed**  
Status Date: 05/10/2017  
Date Installed: 11/01/2001  
Capacity: 10000.00000  
Contents: Gasoline  
Tank Usage: Motor Vehi  
Tank Leak Detection: Continuous Interstitial Monitoring  
Pipe Leak Detection: Continuous Interstitial Space Monitoring  
Latitude: Not reported  
Longitude: Not reported  
Tank construct: Double-walled non-corrodible (including "composite") material (cathodic protection not required)  
Pipe construct: Double-walled non-corrodible material (No corrosion protection required)  
Ptype: Pressurized piping system with mechanical automatic line leak detection  
Number of compartment: Not reported  
Pipe install date: 11/01/2001  
Pipe leak install date: 11/01/2001  
Submersible sump: Y  
Submersible sump install date: 11/01/2001  
Turbine sump: Y  
Turbine sump sensor: Y  
Intermediate sump: N  
Intermediate sump sensor: N  
Spill bucket installed date: 11/01/2001  
Spill bucket sensor: N  
Overfill protect install: 11/01/2001  
Overfill protect type: Automatic shut-off valve  
Automatic line leak detect: 11/01/2001  
Tank corrosion type: Not reported  
Leak corrosion type: Not reported

Release:

Release Tracking Number/Current Status: 4-0018048 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 09/22/2003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**7-ELEVEN #33227 (Continued)**

**U003907867**

Category: 120 DY  
 Status Date: 12/19/2003  
 Phase: Not reported  
 Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.  
 Oil / Haz Material Type: Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
 Action Date: 11/17/2003  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Compliance and Enforcement Action  
 Action Status: Interim Deadline Letter Issued  
 Action Date: 11/17/2003  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Compliance and Enforcement Action  
 Action Status: RFI  
 Action Date: 11/17/2003  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
 Action Status: RAO Statement Received  
 Action Date: 12/19/2003  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 3/12/2004  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 9/22/2003  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 9/22/2003  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

**Chemicals:**

Chemical: METHYL TERT-BUTYL ETHER  
 Quantity: 0.34 parts per million

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site \_\_\_\_\_ Database(s) \_\_\_\_\_ EDR ID Number  
EPA ID Number

**7-ELEVEN #33227 (Continued)**

**U003907867**

HW GEN:  
Name: 7 ELEVEN 33227  
Address: 1693 GRAND ARMY REPUBLIC HWY  
City, State, Zip: SOMERSET, MA 02725  
EPA Id: MAR000504027  
RCRA Generator Status: VSQG  
State Generator Status: Not reported

**24**  
**SSE**  
**1/2-1**  
**0.723 mi.**  
**3820 ft.**

**GREECE BIBLE CHURCH**  
**802 RIVERSIDE AVENUE**  
**SOMERSET, MA**

**MA SHWS** **S113411834**  
**MA RELEASE** **N/A**

**Relative:**  
**Lower**  
**Actual:**  
**31 ft.**

SHWS:  
Facility ID: 4-0024413  
Source Type: TRANSFORM  
Release Town: SOMERSET  
Notification Date: 02/11/2013  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 04/13/2013  
Phase: Not reported  
Response Action Outcome: A2  
Oil Or Haz Material: Oil

Release:  
Release Tracking Number/Current Status: 4-0024413 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 02/11/2013  
Category: TWO HR  
Status Date: 04/13/2013  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	2/11/2013
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	2/22/2013
Response Action Outcome:	A permanent solution has been achieved. Contamination has not been reduced to background.
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREECE BIBLE CHURCH (Continued)**

**S113411834**

Action Date: 4/10/2013  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 4/13/2013  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: NON PCB MODF  
Quantity: 51 gallons  
Location Type: PRIVPROP  
Source: TRANSFORM

**D25**  
**ENE**  
**1/2-1**  
**0.746 mi.**  
**3940 ft.**

**GIBBS OIL CO**  
**514 COUNTY ST**  
**SOMERSET, MA**

**MA SHWS S106513384**  
**MA RELEASE N/A**

**Site 1 of 2 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**80 ft.**

SHWS:  
Facility ID: 4-0016426  
Source Type: Not reported  
Release Town: SOMERSET  
Notification Date: 05/02/2001  
Category: 120 DY  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 09/17/2001  
Phase: Not reported  
Response Action Outcome: B1  
Oil Or Haz Material: Oil

Release:  
Release Tracking Number/Current Status: 4-0016426 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 05/02/2001  
Category: 120 DY  
Status Date: 09/17/2001  
Phase: Not reported  
Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.  
Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:  
Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 5/18/2004  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**GIBBS OIL CO (Continued)**

**S106513384**

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 5/2/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 5/2/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 9/17/2001  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemicals:  
Chemical: C5 THRU C8 ALIPHATIC HYDROCARBONS  
Quantity: 1200 parts per billion

**D26**  
**ENE**  
**1/2-1**  
**0.750 mi.**  
**3958 ft.**

**HESS STATION**  
**516 COUNTY ST**  
**SOMERSET, MA**  
**Site 2 of 2 in cluster D**

**MA SHWS** **S105522085**  
**MA RELEASE** **N/A**

**Relative:**  
**Lower**  
**Actual:**  
**80 ft.**

SHWS:  
Facility ID: 4-0016973  
Source Type: VEHICLE  
Release Town: SOMERSET  
Notification Date: 04/01/2002  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 07/10/2002  
Phase: Not reported  
Response Action Outcome: A1  
Oil Or Haz Material: Oil

Facility ID: 4-0018728  
Source Type: TANKER  
Release Town: SOMERSET  
Notification Date: 10/18/2004  
Category: TWO HR  
Associated ID: Not reported  
Current Status: RAO  
Status Date: 12/17/2004  
Phase: Not reported  
Response Action Outcome: A1  
Oil Or Haz Material: Oil

Release:  
Release Tracking Number/Current Status: 4-0016973 / RAO  
Primary ID: Not reported  
Official City: SOMERSET

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**HESS STATION (Continued)**

**S105522085**

Notification: 04/01/2002  
 Category: TWO HR  
 Status Date: 07/10/2002  
 Phase: Not reported  
 Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
 Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

**Actions:**

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 4/1/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
 Action Status: FLDRUN  
 Action Date: 4/1/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 4/1/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
 Action Date: 5/2/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 5/29/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
 Action Status: FOLOFF  
 Action Date: 6/11/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
 Action Status: Written Plan Received  
 Action Date: 6/7/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
 Action Status: RAO Statement Received  
 Action Date: 7/10/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS STATION (Continued)**

**S105522085**

to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 7/10/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 7/15/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:  
Chemical: GASOLINE  
Quantity: 10 gallons  
Location Type: COMMERCIAL  
Location Type: RESIDENTIAL  
Location Type: ROADWAY  
Source: VEHICLE

Release Tracking Number/Current Status: 4-0018728 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 10/18/2004  
Category: TWO HR  
Status Date: 12/17/2004  
Phase: Not reported  
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:  
Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 10/18/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 10/19/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 11/16/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**HESS STATION (Continued)**

**S105522085**

Action Date: Response Action Outcome:	11/23/2004 A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type: Action Status: Action Date: Response Action Outcome:	RNF Reportable Release under MGL 21E 12/17/2004 A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type: Action Status: Action Date: Response Action Outcome:	Response Action Outcome - RAO RAO Statement Received 12/17/2004 A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type: Action Status: Action Date: Response Action Outcome:	Immediate Response Action Completion Statement Received 12/17/2004 A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type: Action Status: Action Date: Response Action Outcome:	Immediate Response Action Written Plan Received 12/17/2004 A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Action Type: Action Status: Action Date: Response Action Outcome:	Response Action Outcome - RAO Level I - Technical Screen Audit 12/23/2004 A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Chemicals: Chemical: Quantity: Location Type: Source:	GASOLINE 20 gallons COMMERCIAL TANKER

27  
East  
1/2-1  
0.787 mi.  
4156 ft.  
Relative:  
Lower  
Actual:  
38 ft.

**FORMER SOMERSET POWER LLC**  
**1606 RIVERSIDE AVE**  
**SOMERSET, MA 02726**

**MA SHWS 1001493262**  
**MA LAST MAR000014308**  
**MA AST**  
**MA INST CONTROL**  
**MA RELEASE**  
**RCRA NonGen / NLR**  
**MA ASBESTOS**  
**MA HW GEN**  
**NJ MANIFEST**  
**RI MANIFEST**

SHWS:  
 Facility ID: 4-0001017  
 Source Type: Not reported  
 Release Town: SOMERSET  
 Notification Date: 01/15/1991  
 Category: NONE



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Associated ID: Not reported  
 Current Status: DEPND  
 Status Date: 07/23/1993  
 Phase: Not reported  
 Response Action Outcome: Not reported  
 Oil Or Haz Material: Not reported

Facility ID: 4-0014126  
 Source Type: Not reported  
 Release Town: SOMERSET  
 Notification Date: 09/04/1998  
 Category: 120 DY  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 09/07/1999  
 Phase: PHASE II  
 Response Action Outcome: B2  
 Oil Or Haz Material: Not reported

Facility ID: 4-0018175  
 Source Type: Not reported  
 Release Town: SOMERSET  
 Notification Date: 12/11/2003  
 Category: 120 DY  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 09/14/2004  
 Phase: Not reported  
 Response Action Outcome: A3  
 Oil Or Haz Material: Oil

Facility ID: 4-0016023  
 Source Type: PIPE  
 Release Town: SOMERSET  
 Notification Date: 02/04/2001  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 04/05/2001  
 Phase: Not reported  
 Response Action Outcome: A2  
 Oil Or Haz Material: Oil

Facility ID: 4-0016023  
 Source Type: UNKNOWN  
 Release Town: SOMERSET  
 Notification Date: 02/04/2001  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 04/05/2001  
 Phase: Not reported  
 Response Action Outcome: A2  
 Oil Or Haz Material: Oil

Facility ID: 4-0010291  
 Source Type: DRUMS

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Release Town: SOMERSET  
 Notification Date: 02/22/1994  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 04/21/1994  
 Phase: Not reported  
 Response Action Outcome: A1  
 Oil Or Haz Material: Oil

Facility ID: 4-0021966  
 Source Type: PIPE  
 Release Town: SOMERSET  
 Notification Date: 06/08/2009  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 08/03/2009  
 Phase: Not reported  
 Response Action Outcome: A1  
 Oil Or Haz Material: Oil

Facility ID: 4-0010120  
 Source Type: TRANSFORM  
 Release Town: SOMERSET  
 Notification Date: 12/05/1993  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 12/06/1994  
 Phase: Not reported  
 Response Action Outcome: A1  
 Oil Or Haz Material: Oil

Facility ID: 4-0010120  
 Source Type: TRUCK  
 Release Town: SOMERSET  
 Notification Date: 12/05/1993  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 12/06/1994  
 Phase: Not reported  
 Response Action Outcome: A1  
 Oil Or Haz Material: Oil

Facility ID: 4-0010052  
 Source Type: FLOODRAIN  
 Release Town: SOMERSET  
 Notification Date: 10/30/1993  
 Category: TWO HR  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 10/06/1994  
 Phase: Not reported  
 Response Action Outcome: A1  
 Oil Or Haz Material: Oil

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

## LAST:

Release Tracking Number/Current Status: 4-0023101 / RAO  
Source Type: AST  
Release Town: SOMERSET  
Notification Date: 02/06/2011  
Category: TWO HR  
Associated ID: Not reported  
Status Date: 06/07/2011  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil Or Haz Material: Oil

## Chemicals:

Chemical: LUBRICATING OIL  
Quantity: 200 gallons  
Location Type: INDUSTRIAL  
Location Type: WATERBODY  
Source: AST

## Actions:

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 12/12/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 2/6/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 2/6/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FLDD1U  
Action Date: 2/6/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
Action Date: 3/2/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 4/6/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Action Status: Written Plan Received  
Action Date: 4/6/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 6/7/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 6/7/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release Tracking Number/Current Status: 4-0014128 / RAO  
Source Type: AST  
Release Town: SOMERSET  
Notification Date: 09/04/1998  
Category: 120 DY  
Associated ID: Not reported  
Status Date: 09/07/1999  
Phase: PHASE II  
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Oil Or Haz Material: Oil

Chemicals:  
Chemical: TPH  
Quantity: 3880 parts per million  
Source: AST

Actions:  
Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 1/12/2016  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/20/2016  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 1/23/2018  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	10/11/2018
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	An activity type that is related to an Audit
Action Status:	NAFNVD
Action Date:	10/13/2011
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Level II - Audit Inspection
Action Date:	10/13/2011
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	10/29/1998
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	11/11/2016
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	12/29/2016
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	2/4/2002
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Level I - Technical Screen Audit
Action Date:	2/4/2002
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Action Status:	DEDNOT
Action Date:	4/21/2015
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	4/27/2006
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	5/11/2016
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	5/18/2017
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	5/25/2018
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	5/26/2017
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	5/27/2016
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	6/12/2018
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	RLFA
Action Status:	FLDRUN

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Action Date: 9/22/2011  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
Action Status: Status or Interim Report Received  
Action Date: 9/24/2018  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/4/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/4/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/7/1999  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Phase 1  
Action Status: Completion Statement Received  
Action Date: 9/7/1999  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 9/7/1999  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number/Current Status: 4-0016023 / RAO  
Source Type: AST  
Release Town: SOMERSET  
Notification Date: 02/04/2001  
Category: TWO HR  
Associated ID: Not reported  
Status Date: 04/05/2001  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

been reduced to background.  
Oil Or Haz Material: Oil

Chemicals:  
Chemical: JET FUEL  
Quantity: 2000 gallons  
Location Type: INDUSTRIAL  
Location Type: COMMERCIAL  
Source: PIPE  
Source: AST  
Source: UNKNOWN

Actions:  
Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 2/4/2000  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FLDD1U  
Action Date: 2/4/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 2/4/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 2/6/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 4/14/2004  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 4/5/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 4/5/2001  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

INST CONTROL:  
Release Tracking Number: 4-0014126



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Action Type: AUL  
 Action Stat: RECPT  
 Action Date: 09/07/1999  
 Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0014126  
 Action Type: AUL  
 Action Stat: SNAUDI  
 Action Date: 05/24/2006  
 Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0014126  
 Action Type: AUL  
 Action Stat: SNAUDI  
 Action Date: 05/31/2006  
 Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0014126  
 Action Type: AUL  
 Action Stat: SNAUDI  
 Action Date: 10/13/2011  
 Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0014126  
 Action Type: AUL  
 Action Stat: TSAUD  
 Action Date: 02/04/2002  
 Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0014128  
 Action Type: AUL  
 Action Stat: DEDNOT  
 Action Date: 04/21/2015  
 Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0014128  
 Action Type: AUL  
 Action Stat: RECPT  
 Action Date: 09/07/1999  
 Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0014128  
 Action Type: AUL

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site \_\_\_\_\_ Database(s) \_\_\_\_\_ EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Action Stat: SNAUDI  
 Action Date: 10/13/2011  
 Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0014128  
 Action Type: AUL  
 Action Stat: TSAUD  
 Action Date: 02/04/2002  
 Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Release Tracking Number: 4-0018175  
 Action Type: AUL  
 Action Stat: RECPT  
 Action Date: 09/14/2004  
 Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 4-0018175  
 Action Type: AUL  
 Action Stat: SNAUDI  
 Action Date: 05/16/2006  
 Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 4-0018175  
 Action Type: AUL  
 Action Stat: SNAUDI  
 Action Date: 10/13/2011  
 Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release Tracking Number: 4-0018175  
 Action Type: AUL  
 Action Stat: TSAUD  
 Action Date: 01/13/2005  
 Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Release:  
 Release Tracking Number/Current Status: 4-0001017 / DEPND5  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 01/15/1991  
 Category: NONE  
 Status Date: 07/23/1993  
 Phase: Not reported  
 Response Action Outcome: -  
 Oil / Haz Material Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

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Actions:

Action Type: Release Disposition  
Action Status: Valid Transition Site  
Action Date: 1/15/1991  
Response Action Outcome: Not reported

Action Type: TREGS  
Action Status: DEPND5  
Action Date: 7/23/1993  
Response Action Outcome: Not reported

Chemicals:

Chemical: UNKNOWN  
Quantity: Not reported

Release Tracking Number/Current Status: 4-0010052 / RAO

Primary ID: Not reported

Official City: SOMERSET

Notification: 10/30/1993

Category: TWO HR

Status Date: 10/06/1994

Phase: Not reported

Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Oil / Haz Material Type: Oil

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Actions:

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 10/30/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 10/30/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: IRA Assessment Only  
Action Date: 10/30/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 10/6/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site \_\_\_\_\_ Database(s) \_\_\_\_\_ EDR ID Number  
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**FORMER SOMERSET POWER LLC (Continued)**

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Action Status: RAO Statement Received  
Action Date: 10/6/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 11/11/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 12/28/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 12/28/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 12/9/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 8/26/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:  
Chemical: LUBRICATING OIL  
Quantity: Not reported  
Chemical: UNKNOWN CHEMICAL OF TYPE - OIL  
Quantity: Not reported  
Location Type: INDUSTRIAL  
Source: FLOORDRAIN

Release Tracking Number/Current Status: 4-0010120 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 12/05/1993  
Category: TWO HR  
Status Date: 12/06/1994  
Phase: Not reported  
Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
Oil / Haz Material Type: Oil

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Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

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**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Actions:

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 12/5/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 12/6/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 12/6/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FOLFLD  
Action Date: 12/9/1993  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 2/8/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 2/8/1994  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
Action Status: Fee Received - FMCRA Use Only  
Action Date: 8/26/1997  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:

Chemical: MINERAL OIL  
Quantity: Not reported  
Chemical: TRANSFORMER OIL  
Quantity: Not reported  
Location Type: INDUSTRIAL  
Source: TRANSFORM  
Source: TRUCK

Release Tracking Number/Current Status: 4-0010291 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 02/22/1994

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**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Category: TWO HR  
 Status Date: 04/21/1994  
 Phase: Not reported  
 Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
 Oil / Haz Material Type: Oil

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Actions:

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 2/22/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 2/22/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
 Action Date: 2/25/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
 Action Status: RAO Statement Received  
 Action Date: 4/21/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 4/21/1994  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:

Chemical: #6 FUEL OIL  
 Quantity: Not reported  
 Chemical: #6 FUEL OIL  
 Quantity: 20 gallons  
 Chemical: #2 FUEL OIL  
 Quantity: 20 gallons  
 Location Type: INDUSTRIAL  
 Source: DRUMS

Release Tracking Number/Current Status: 4-0014126 / RAO  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 09/04/1998  
 Category: 120 DY  
 Status Date: 09/07/1999

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Phase: PHASE II  
 Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.  
 Oil / Haz Material Type: Not reported

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## Actions:

Action Type: An activity type that is related to an Audit  
 Action Status: NAFNVD  
 Action Date: 10/13/2011  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
 Action Status: Level II - Audit Inspection  
 Action Date: 10/13/2011  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
 Action Date: 11/6/1998  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 2/4/2002  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 2/4/2002  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA  
 Action Status: FLDRAN  
 Action Date: 4/27/2006  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit  
 Action Status: NAFNVD  
 Action Date: 5/24/2006  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Map ID  
 Direction  
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MAP FINDINGS

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**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Action Type: Activity and Use Limitation  
 Action Status: Level II - Audit Inspection  
 Action Date: 5/24/2006  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit  
 Action Status: NAFNVD  
 Action Date: 5/31/2006  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
 Action Status: Level II - Audit Inspection  
 Action Date: 5/31/2006  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA  
 Action Status: FLDRUN  
 Action Date: 9/22/2011  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RNF  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 9/4/1998  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 9/4/1998  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO  
 Action Status: RAO Statement Received  
 Action Date: 9/7/1999  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Phase 1  
 Action Status: Completion Statement Received  
 Action Date: 9/7/1999  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation



Map ID  
Direction  
Distance  
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**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/7/1999  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Chemicals:

Chemical: UNKNOWN  
Quantity: 6 inches

Release Tracking Number/Current Status: 4-0014128 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 09/04/1998  
Category: 120 DY  
Status Date: 09/07/1999  
Phase: PHASE II  
Response Action Outcome: B2 - Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.  
Oil / Haz Material Type: Oil

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Actions:

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 1/12/2016  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
Action Status: Level I - Technical Screen Audit  
Action Date: 1/20/2016  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 1/23/2018  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
Action Status: Level I - Technical Screen Audit  
Action Date: 10/11/2018  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: An activity type that is related to an Audit  
Action Status: NAFNVD  
Action Date: 10/13/2011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

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**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Level II - Audit Inspection
Action Date:	10/13/2011
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.
Action Date:	10/29/1998
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	11/11/2016
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	12/29/2016
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	2/4/2002
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	Level I - Technical Screen Audit
Action Date:	2/4/2002
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	Activity and Use Limitation
Action Status:	DEDNOT
Action Date:	4/21/2015
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	4/27/2006
Response Action Outcome:	Remedial actions have not been conducted because a level of No

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
 Action Status: Status or Interim Report Received  
 Action Date: 5/11/2016  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
 Action Status: Completion Statement Received  
 Action Date: 5/18/2017  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
 Action Status: Written Plan Received  
 Action Date: 5/25/2018  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 5/26/2017  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 5/27/2016  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 6/12/2018  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: RLFA  
 Action Status: FLDRUN  
 Action Date: 9/22/2011  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Abatement Measure  
 Action Status: Status or Interim Report Received  
 Action Date: 9/24/2018  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Map ID  
Direction  
Distance  
Elevation

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**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

AULs that have been implemented.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/4/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 9/4/1998  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Activity and Use Limitation  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 9/7/1999  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Phase 1  
Action Status: Completion Statement Received  
Action Date: 9/7/1999  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 9/7/1999  
Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists, but that level is contingent upon one or more AULs that have been implemented.

Chemicals:  
Chemical: TPH  
Quantity: 3880 parts per million  
Source: AST

Release Tracking Number/Current Status: 4-0016023 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 02/04/2001  
Category: TWO HR  
Status Date: 04/05/2001  
Phase: Not reported  
Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
Oil / Haz Material Type: Oil

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Actions:

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 2/4/2000  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
 Action Status: FLDD1U  
 Action Date: 2/4/2001  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 2/4/2001  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
 Action Date: 2/6/2001  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 4/14/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
 Action Status: Completion Statement Received  
 Action Date: 4/5/2001  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
 Action Status: RAO Statement Received  
 Action Date: 4/5/2001  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
 Chemical: JET FUEL  
 Quantity: 2000 gallons  
 Location Type: INDUSTRIAL  
 Location Type: COMMERCIAL  
 Source: PIPE  
 Source: AST  
 Source: UNKNOWN

Release Tracking Number/Current Status: 4-0018175 / RAO  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 12/11/2003  
 Category: 120 DY  
 Status Date: 09/14/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Phase: Not reported  
 Response Action Outcome: A3 - A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.  
 Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type: Response Action Outcome - RAO  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 1/11/2005  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 1/13/2005  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: An activity type that is related to an Audit  
 Action Status: NAFNVD  
 Action Date: 10/13/2011  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Activity and Use Limitation  
 Action Status: Level II - Audit Inspection  
 Action Date: 10/13/2011  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 12/11/2003  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RNF  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 12/11/2003  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
 Action Status: FLDRUN  
 Action Date: 4/27/2006  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Site	Database(s)	EDR ID Number EPA ID Number
<p>Action Type: An activity type that is related to an Audit Action Status: Notice of Non-compliance related to an Audit Action Date: 5/16/2006 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.</p>		
<p>Action Type: Activity and Use Limitation Action Status: Level II - Audit Inspection Action Date: 5/16/2006 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.</p>		
<p>Action Type: Compliance and Enforcement Action Action Status: Interim Deadline Letter Issued Action Date: 6/29/2004 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.</p>		
<p>Action Type: A Notice sent to a Potentially Responsible Party (PRP) Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc. Action Date: 6/29/2004 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.</p>		
<p>Action Type: Compliance and Enforcement Action Action Status: RFI Action Date: 6/29/2004 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.</p>		
<p>Action Type: An activity type that is related to an Audit Action Status: Audit Follow-up Completion Statement Received Action Date: 7/13/2006 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.</p>		
<p>Action Type: Activity and Use Limitation Action Status: Transmittal, Notice, or Notification Received Action Date: 9/14/2004 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.</p>		
<p>Action Type: Response Action Outcome - RAO Action Status: RAO Statement Received Action Date: 9/14/2004 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.</p>		
<p>Action Type: Response Action Outcome - RAO</p>		

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site Database(s) EDR ID Number EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Action Status: Fee Received - FMCRA Use Only  
 Action Date: 9/16/2004  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Action Type: RLFA  
 Action Status: FLDRUN  
 Action Date: 9/22/2011  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background and an Activity and use Limitation (AUL) has been implemented.

Chemicals:

Chemical: C11 THRU C22 AROMATIC HYDROCARBONS  
 Quantity: 38900 parts per million  
 Chemical: C9 THRU C18 ALIPHATIC HYDROCARBONS  
 Quantity: 4480 parts per million  
 Chemical: C19 THRU C36 ALIPHATIC HYDROCARBONS  
 Quantity: 39500 parts per million

Release Tracking Number/Current Status: 4-0021966 / RAO  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 06/08/2009  
 Category: TWO HR  
 Status Date: 08/03/2009  
 Phase: Not reported  
 Response Action Outcome: A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.  
 Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
 Action Date: 6/16/2009  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 6/8/2009  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 6/8/2009  
 Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 8/18/2009



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 8/3/2009

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 8/3/2009

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 8/3/2009

Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

## Chemicals:

Chemical: #6 FUEL OIL  
Quantity: 100 gallons  
Location Type: COMMERCIAL  
Source: PIPE

Release Tracking Number/Current Status: 4-0023101 / RAO

Primary ID: Not reported  
Official City: SOMERSET  
Notification: 02/06/2011  
Category: TWO HR  
Status Date: 06/07/2011  
Phase: Not reported

Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

## Actions:

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 12/12/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 2/6/2011  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 2/6/2011

Map ID  
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MAP FINDINGS

Site Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FLDD1U  
Action Date: 2/6/2011

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 3/2/2011

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNFE  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 4/6/2011

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Written Plan Received  
Action Date: 4/6/2011

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Completion Statement Received  
Action Date: 6/7/2011

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 6/7/2011

Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
Chemical: LUBRICATING OIL  
Quantity: 200 gallons  
Location Type: INDUSTRIAL  
Location Type: WATERBODY  
Source: AST

RCRA NonGen / NLR:  
Date form received by agency: 04/11/2013  
Facility name: FORMER SOMERSET POWER LLC  
Facility address: 1606 RIVERSIDE AVE  
SOMERSET, MA 02726  
EPA ID: MAR000014308  
Contact: FRANK WEIDNER  
Contact address: 162 VALLEY BLVD  
WOOD RIDGE, NJ 07075-0000  
Contact country: US

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Contact telephone: 201-416-4009  
 Contact email: Not reported  
 EPA Region: 01  
 Land type: Private  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

## Owner/Operator Summary:

Owner/operator name: ASSET RECOVERY GROUP LLC  
 Owner/operator address: 162 VALLEY BLVD  
 WOOD RIDGE, NJ 07075  
 Owner/operator country: US  
 Owner/operator telephone: Not reported  
 Owner/operator email: Not reported  
 Owner/operator fax: Not reported  
 Owner/operator extension: Not reported  
 Legal status: Private  
 Owner/Operator Type: Operator  
 Owner/Op start date: 01/31/2012  
 Owner/Op end date: Not reported

Owner/operator name: ASSET RECOVERY GROUP LLC  
 Owner/operator address: 162 VALLEY BLVD  
 WOOD RIDGE, NJ 07075  
 Owner/operator country: US  
 Owner/operator telephone: Not reported  
 Owner/operator email: Not reported  
 Owner/operator fax: Not reported  
 Owner/operator extension: Not reported  
 Legal status: Private  
 Owner/Operator Type: Owner  
 Owner/Op start date: 01/31/2012  
 Owner/Op end date: Not reported

## Handler Activities Summary:

U.S. importer of hazardous waste: No  
 Mixed waste (haz. and radioactive): No  
 Recycler of hazardous waste: No  
 Transporter of hazardous waste: No  
 Treater, storer or disposer of HW: No  
 Underground injection activity: No  
 On-site burner exemption: No  
 Furnace exemption: No  
 Used oil fuel burner: No  
 Used oil processor: No  
 User oil refiner: No  
 Used oil fuel marketer to burner: No  
 Used oil Specification marketer: No  
 Used oil transfer facility: No  
 Used oil transporter: No

## Historical Generators:

Date form received by agency: 02/15/2012  
 Site name: FORMER SOMERSET POWER LLC  
 Classification: Not a generator, verified

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Date form received by agency: 03/30/1999  
 Site name: FORMER SOMERSET POWER LLC  
 Classification: Small Quantity Generator

Hazardous Waste Summary:

- . Waste code: D001
- . Waste name: IGNITABLE WASTE
  
- . Waste code: D002
- . Waste name: CORROSIVE WASTE
  
- . Waste code: D003
- . Waste name: REACTIVE WASTE
  
- . Waste code: D007
- . Waste name: CHROMIUM
  
- . Waste code: D008
- . Waste name: LEAD
  
- . Waste code: D009
- . Waste name: MERCURY
  
- . Waste code: D018
- . Waste name: BENZENE
  
- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE
  
- . Waste code: MA01
- . Waste name: WASTE OIL

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
 Area of violation: State Statute or Regulation  
 Date violation determined: 03/02/2012  
 Date achieved compliance: 08/30/2012  
 Violation lead agency: State  
     Enforcement action: WRITTEN INFORMAL  
     Enforcement action date: 08/13/2012  
     Enf. disposition status: Not reported  
     Enf. disp. status date: Not reported  
     Enforcement lead agency: State  
     Proposed penalty amount: Not reported  
     Final penalty amount: Not reported  
     Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 03/02/2012  
 Evaluation: NON-FINANCIAL RECORD REVIEW  
 Area of violation: State Statute or Regulation  
 Date achieved compliance: 08/30/2012  
 Evaluation lead agency: State

Evaluation date: 06/11/2009

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

Evaluation date: 03/14/2001  
 Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
 Area of violation: Not reported  
 Date achieved compliance: Not reported  
 Evaluation lead agency: State

**ASBESTOS:**

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 02/19/2016  
 End Date: 03/31/2016  
 Date Entered: Not reported  
 Entry Date: 02/05/2016  
 Quantity Material Removed SF: 37660.00  
 Quantity Material Removed LF: 500.00  
 Project Description: PIPEINSUL OTHER MASTIC COATING  
 AR Tracking ID: 231633  
 Super Lic Number: AS071733  
 Monitor Lic Number: Not reported  
 Lab Lic Number: AA000208  
 Year: 2016  
 Sticker Number: 100236964  
 Form Type: ANF-001  
 Fee Status: HUNDRED  
 Facility Phone: 9789073598  
 Sub Town: Not reported  
 Worksite: TANK # 2  
 Occupied: 0  
 Contractor: AC000639  
 Contract Type: WRITTEN  
 Hours: 7-3:30  
 Project Type: Dem  
 Abatement Process: Glv,Fcontain, oth:EXTERIOIR ABATEMENT  
 Location: OUTDOORS  
 Decon Process: THREE STAGE PERSONNEL DECONTAMINATION UNIT WITH SHOWER REMOTE TO THE WORK AREAS  
 Disposal Methods: WETTED ACM TO BE PACKAGED IN TWO 6-MIL POLY BURIAL BAG-LINED FIBER DRUMS, OR WRAPPED IN TWO LAYERS OF 6-MIL POLY, THEN SEALED AND LABELED  
 Facility Usage: TANK FARM  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: NEW ENGLAND POWER COMPANY  
 Owner Address: 40 SYLVAN ROAD  
 Owner City: WALTHAM  
 Owner State: MA  
 On Site Manager Name: ERIN WHORISKEY  
 On Site Manager Phone: 7819073598  
 Ins Comp: STATE NATIONAL INSURANCE COMPANY  
 Policy Number: NFA 0824093  
 EXP Date: 3/29/2016

Map ID  
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MAP FINDINGS

Site

Database(s) EDR ID Number  
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**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Facility Size:	36000
Transporter Name:	AMERICAN ENVIRONMENTAL
Transporter Address:	18 CANAL STREET
Transporter City:	HOLYOKE
Transporter State:	MA
Final Site:	Not reported
Certified Name:	RANDY REYNOLDS
Cert Sign Date:	02/05/2016
Certified Company:	AMERICAN ENVIRONMENTAL
Certified Phone:	4133227190
Entered_by:	METROREMIATOR
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	05/23/2007
End Date:	05/29/2007
Date Entered:	Not reported
Entry Date:	05/09/2007
Quantity Material Removed SF:	50.00
Quantity Material Removed LF:	.00
Project Description:	Blr
AR Tracking ID:	82772
Super Lic Number:	AS040887
Monitor Lic Number:	AM033696
Lab Lic Number:	AA000170
Year:	2007
Sticker Number:	100055161
Form Type:	ANF-001
Fee Status:	Fifty
Facility Phone:	5082352007
Sub Town:	Not reported
Worksite:	BOILER HOUSE
Occupied:	-1
Contractor:	AC000120
Contract Type:	WRITTEN
Hours:	Week days: 7AM-7PM Week end:
Project Type:	Rpr
Abatement Process:	Fcontain
Location:	Indoors
Decon Process:	2 CHAMBER DECON WITH 5 MICRON INLINE FILTER
Disposal Methods:	WETDOWN, PACKAGED, LABELLED AND SHIPPED IN DOT APPROVED CONTAINERS
Facility Usage:	BOILER HOUSE
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	5
Owner Name:	NRG
Owner Address:	1606 RIVERSIDE AVENUE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	JEFFREY ARAUJO
On Site Manager Phone:	508-235-2007
Ins Comp:	ZURICH AMERICAN INSURANCE
Policy Number:	WC5869371-01
EXP Date:	12/31/2007
Facility Size:	Not reported

Map ID  
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MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Transporter Name:	FLEET ENVIRONMENTAL SERVICES
Transporter Address:	75 D YORK AVENUE
Transporter City:	RANDOLPH
Transporter State:	Not reported
Final Site:	47
Certified Name:	KATE TIMBERLAKE
Cert Sign Date:	05/09/2007
Certified Company:	FLEET ENVIRONMENTAL SVC
Certified Phone:	7818151100
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	04/30/2014
End Date:	05/10/2014
Date Entered:	Not reported
Entry Date:	04/29/2014
Quantity Material Removed SF:	100.00
Quantity Material Removed LF:	.00
Project Description:	Trns
AR Tracking ID:	188540
Super Lic Number:	AS053930
Monitor Lic Number:	AM000146
Lab Lic Number:	AA000208
Year:	2014
Sticker Number:	100197972
Form Type:	ANF-001
Fee Status:	Fifty
Facility Phone:	Not reported
Sub Town:	Not reported
Worksite:	FLOW CONTROL
Occupied:	0
Contractor:	AC000831
Contract Type:	WRITTEN
Hours:	Week days: 7-3:30PM Week end:
Project Type:	Dem
Abatement Process:	Encl,Fcontain,Encp
Location:	Not reported
Decon Process:	THREE CHAMBER DECON
Disposal Methods:	WETTED MATERIALS TO BE DOUBLE BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	SE-14-156
DLWD Waiver Number:	9471-2014
Small Owner Occ:	5
Owner Name:	GREAT NORTHERN SITE CORP
Owner Address:	85-87 BOSTON STREET
Owner City:	EVERETT, MA
Owner State:	MA
On Site Manager Name:	ETHAN OWEN
On Site Manager Phone:	413 281-5851
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	RECOERY EXPRESS, INC

Database(s) EDR ID Number  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Transporter Address: 180 CANAL STREET  
 Transporter City: BOSTON, MA  
 Transporter State: Not reported  
 Final Site: 39  
 Certified Name: JESSDA  
 Cert Sign Date: 04/29/2014  
 Certified Company: ASP ENVIRONMENTAL  
 Certified Phone: 9789059936  
 Entered\_by: Not reported  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 06/09/2003  
 End Date: 06/13/2003  
 Date Entered: Not reported  
 Entry Date: 06/19/2003  
 Quantity Material Removed SF: 240.00  
 Quantity Material Removed LF: 15.00  
 Project Description: Boiler Coatings  
 AR Tracking ID: 26446  
 Super Lic Number: AS070996  
 Monitor Lic Number: AM061057  
 Lab Lic Number: AA000144  
 Year: Not reported  
 Sticker Number: 200403  
 Form Type: ANF-001  
 Fee Status: 60  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: ELEVATION 137  
 Occupied: -1  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 7 AM - 7 PM  
 Project Type: Renovation  
 Abatement Process: Glove Bag  
 Location: Indoors  
 Decon Process: ACM REMOVED/GLOVE BAG/HEPA VAC  
 Disposal Methods: WET 2 PLY POLY BAG WITH DUMPSTER  
 Facility Usage: ELEC GENERA  
 Waiver Given: -1  
 DEP Waiver Number: SE-03-094  
 DLWD Waiver Number: 1B03147BS  
 Small Owner Occ: Not reported  
 Owner Name: NRG SOMERSET OPERATIONS  
 Owner Address: 1606 RIVERSIDE AVENUE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: TRAVELERS CORP.  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: JOB ROLLOFF INC  
 Transporter Address: PO BOX 6037



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	7
Certified Name:	DANIEL LABASTIE
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	(860) 423-6048
Entered_by:	Ewilliams
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	10/15/2003
End Date:	10/22/2003
Date Entered:	Not reported
Entry Date:	10/07/2003
Quantity Material Removed SF:	156.00
Quantity Material Removed LF:	Not reported
Project Description:	TRANSITE WALL BOARD
AR Tracking ID:	31828
Super Lic Number:	AS070996
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	201894
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	ASH SILO SIDING
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7A-33P
Project Type:	TRANSITE SIDING REMOVED
Abatement Process:	TRANSITE SIDING REMOVED
Location:	Outdoors
Decon Process:	HEPA VAC
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	ELECTRIC GE
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF INC
Transporter Address:	PO BOX 6037
Transporter City:	CHELSEA

Map ID  
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Distance  
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MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Transporter State: MA  
 Final Site: 7  
 Certified Name: DAN LABASTIE  
 Cert Sign Date: 10/01/2003  
 Certified Company: Not reported  
 Certified Phone: (860) 423-6048  
 Entered\_by: fuminski

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 04/30/2014  
 End Date: 05/16/2014  
 Date Entered: Not reported  
 Entry Date: 04/29/2014  
 Quantity Material Removed SF: .00  
 Quantity Material Removed LF: 11.00  
 Project Description: Blr  
 AR Tracking ID: 188537  
 Super Lic Number: AS053930  
 Monitor Lic Number: AM000146  
 Lab Lic Number: AA000208  
 Year: 2014  
 Sticker Number: 100197968  
 Form Type: ANF-001  
 Fee Status: Fifty  
 Facility Phone: Not reported  
 Sub Town: Not reported  
 Worksite: BUILDING # 2  
 Occupied: 0  
 Contractor: AC000831  
 Contract Type: WRITTEN  
 Hours: Week days: 7-3:30PM Week end:  
 Project Type: Dem  
 Abatement Process: Encl,Fcontain,Encp  
 Location: Not reported  
 Decon Process: THREE CHAMBER DECON  
 Disposal Methods: WETTED MATERIALS TO BE DOUBLE BAG  
 Facility Usage: Not reported  
 Waiver Given: Not reported  
 DEP Waiver Number: SE-14-153  
 DLWD Waiver Number: 9468-2014  
 Small Owner Occ: 5  
 Owner Name: GREAT NORTHERN SITE CORP  
 Owner Address: 85-87 BOSTON STREET  
 Owner City: EVERETT, MA  
 Owner State: MA  
 On Site Manager Name: ETHAN OWEN  
 On Site Manager Phone: 413-281-5851  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: RECOVERY EXPRESS, INC  
 Transporter Address: 180 CANAL STREET  
 Transporter City: BOSTON, MA  
 Transporter State: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Final Site: 39  
 Certified Name: JESSDA  
 Cert Sign Date: 04/29/2014  
 Certified Company: ASP ENVIRONMENTAL  
 Certified Phone: 9789059905  
 Entered\_by: Not reported

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 04/30/2014  
 End Date: 05/17/2014  
 Date Entered: Not reported  
 Entry Date: 04/29/2014  
 Quantity Material Removed SF: 100.00  
 Quantity Material Removed LF: .00  
 Project Description: Insl  
 AR Tracking ID: 188538  
 Super Lic Number: AS053930  
 Monitor Lic Number: AM000146  
 Lab Lic Number: AA000208  
 Year: 2014  
 Sticker Number: 100197969  
 Form Type: ANF-001  
 Fee Status: Fifty  
 Facility Phone: Not reported  
 Sub Town: Not reported  
 Worksite: OXYGEN STORAGE  
 Occupied: 0  
 Contractor: AC000831  
 Contract Type: WRITTEN  
 Hours: Week days: 7-3:30PM Week end:  
 Project Type: Dem  
 Abatement Process: Encl,Fcontain,Encp  
 Location: Not reported  
 Decon Process: THREE CHAMBER DECON  
 Disposal Methods: WETTED MATERIALS TO BE DOUBLE BAG  
 Facility Usage: Not reported  
 Waiver Given: Not reported  
 DEP Waiver Number: SE-14-154  
 DLWD Waiver Number: 9469-2014  
 Small Owner Occ: 5  
 Owner Name: GREAT NORTHERN SITE CORP  
 Owner Address: 85-87 BOSTON STREET  
 Owner City: EVERETT  
 Owner State: MA  
 On Site Manager Name: ETHAN OWEN  
 On Site Manager Phone: 413 281-5851  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: RECOVERY EXPRESS, INC  
 Transporter Address: 180 CANAL STREET  
 Transporter City: BOSTON, MA  
 Transporter State: Not reported  
 Final Site: 39

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Certified Name: JESSDA  
 Cert Sign Date: 04/29/2014  
 Certified Company: ASP ENVIRONMENTAL  
 Certified Phone: 9799059905  
 Entered\_by: Not reported

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 04/30/2014  
 End Date: 05/20/2014  
 Date Entered: Not reported  
 Entry Date: 04/29/2014  
 Quantity Material Removed SF: 800.00  
 Quantity Material Removed LF: .00  
 Project Description: Trms  
 AR Tracking ID: 188539  
 Super Lic Number: AS053930  
 Monitor Lic Number: AM000146  
 Lab Lic Number: AA000208  
 Year: 2014  
 Sticker Number: 100197971  
 Form Type: ANF-001  
 Fee Status: Fifty  
 Facility Phone: Not reported  
 Sub Town: Not reported  
 Worksite: SUBSTATION OFFICE  
 Occupied: 0  
 Contractor: AC000831  
 Contract Type: WRITTEN  
 Hours: Week days: 7-3:30PM Week end:  
 Project Type: Dem  
 Abatement Process: Encl,Fcontain,Encp  
 Location: Not reported  
 Decon Process: THREE CHAMBER DECON  
 Disposal Methods: WETTED MATERIALS TO BE DOUBLE BAG  
 Facility Usage: Not reported  
 Waiver Given: Not reported  
 DEP Waiver Number: SE-14-155  
 DLWD Waiver Number: 9470-2014  
 Small Owner Occ: 5  
 Owner Name: GREAT NORTHERN  
 Owner Address: 85-87 BOSTON STREET  
 Owner City: EVERETT, MA  
 Owner State: MA  
 On Site Manager Name: ETHAN OWEN  
 On Site Manager Phone: 413 281-5851  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: RECOVERY EXPRESS, INC  
 Transporter Address: 180 CANAL STREET  
 Transporter City: BOSTON, MA  
 Transporter State: Not reported  
 Final Site: 39  
 Certified Name: JESSDA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Cert Sign Date: 04/29/2014  
 Certified Company: ASP ENVIRONMENTAL  
 Certified Phone: 9789059936  
 Entered\_by: Not reported

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 10/03/2002  
 End Date: 10/13/2002  
 Date Entered: Not reported  
 Entry Date: 09/19/2002  
 Quantity Material Removed SF: 50.00  
 Quantity Material Removed LF: 75.00  
 Project Description: boiler Coatings&thermal solid core pipe insulatio  
 AR Tracking ID: 15273  
 Super Lic Number: AS040221  
 Monitor Lic Number: Not reported  
 Lab Lic Number: AA000144  
 Year: 2002  
 Sticker Number: 557076  
 Form Type: ANF-001  
 Fee Status: 50  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: elevator 137 sootblower stopvalve  
 Occupied: 0  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: m-f 7-330  
 Project Type: Renovation  
 Abatement Process: glove Bag\cleanup\encapsulation  
 Location: Indoors  
 Decon Process: wetwipe,hepavac,isolate  
 Disposal Methods: 2 Ply Poly Bag with Label  
 Facility Usage: power generator  
 Waiver Given: 0  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: NRG somerset ops  
 Owner Address: 1606 riverside avenue  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: amer protection ins co  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: 140000 sf 7 fl  
 Transporter Name: JOB ROLLOFF INC  
 Transporter Address: PO BOX 6037  
 Transporter City: CHELSEA  
 Transporter State: MA  
 Final Site: 7  
 Certified Name: daniel p labastie jr  
 Cert Sign Date: 09/18/2002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Certified Company: Not reported  
 Certified Phone: (508) 755-1355  
 Entered\_by: Not reported

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 07/03/2009  
 End Date: 07/14/2009  
 Date Entered: Not reported  
 Entry Date: 07/02/2009  
 Quantity Material Removed SF: 40.00  
 Quantity Material Removed LF: .00  
 Project Description: Blr,Trns  
 AR Tracking ID: 114646  
 Super Lic Number: AS040887  
 Monitor Lic Number: AM033696  
 Lab Lic Number: AA000170  
 Year: 2009  
 Sticker Number: 100091006  
 Form Type: ANF-001  
 Fee Status: Fifty  
 Facility Phone: 5082352025  
 Sub Town: Not reported  
 Worksite: BOILER HOUSE  
 Occupied: -1  
 Contractor: AC000701  
 Contract Type: WRITTEN  
 Hours: Week days: 7AM330PM Week end: N/A  
 Project Type: Rpr  
 Abatement Process: Fcontain  
 Location: Indoors  
 Decon Process: THREE CHAMBER DECONTAMINATION UNIT ADJACENT TO THE WORK AREA.  
 Disposal Methods: ALL ASBESTOS INSULATION WILL PROPERLY WETTED & DOUBLE BAGGED LABELED.  
 Facility Usage: POWER PLANT  
 Waiver Given: Not reported  
 DEP Waiver Number: SE-09187  
 DLWD Waiver Number: 1B09196BS  
 Small Owner Occ: 5  
 Owner Name: NRG  
 Owner Address: 1606 RIVERSIDE AVE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: CARLO LODI  
 On Site Manager Phone: 508-235-2025  
 Ins Comp: NATIONAL UNION FIRE INSURANCE  
 Policy Number: WC6506877  
 EXP Date: 2/28/2009  
 Facility Size: 300,000  
 Transporter Name: SERVICE TRANSPORT GROUP INC.  
 Transporter Address: 58 PYLES LANE  
 Transporter City: NEW CASTLE, DE  
 Transporter State: Not reported  
 Final Site: 47  
 Certified Name: JIM SILVIA  
 Cert Sign Date: 07/02/2009  
 Certified Company: MORAN

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Certified Phone: 5088890674  
 Entered\_by: Not reported  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 05/03/2016  
 End Date: 07/29/2016  
 Date Entered: Not reported  
 Entry Date: 05/04/2016  
 Quantity Material Removed SF: 63000.00  
 Quantity Material Removed LF: Not reported  
 Project Description: OTHER TANK COATING  
 AR Tracking ID: 237619  
 Super Lic Number: AS000022  
 Monitor Lic Number: Not reported  
 Lab Lic Number: Not reported  
 Year: 2016  
 Sticker Number: 100242271  
 Form Type: ANF-001  
 Fee Status: HUNDRED  
 Facility Phone: 7814310016  
 Sub Town: Not reported  
 Worksite: TANK # 2  
 Occupied: 0  
 Contractor: AC000639  
 Contract Type: WRITTEN  
 Hours: 7AM - 5 PM  
 Project Type: Dem  
 Abatement Process: Glv,Clnp,Fcontain, oth:EXTERIOR REGULATED AREA  
 Location: OUTDOORS  
 Decon Process: THREE CHAMBER REMOTE DECONTAMINATION UNIT WITH HOT AND COLD WATER  
 Disposal Methods: DOUBLED 6-MIL POLY BAGS  
 Facility Usage: TANK FARM  
 Waiver Given: Not reported  
 DEP Waiver Number: SAW-16-133  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: NEW ENGLAND POWER COMPANY  
 Owner Address: 40 SYLVAN ROAD  
 Owner City: WALTHAM  
 Owner State: MA  
 On Site Manager Name: ERIN WHORISKEY  
 On Site Manager Phone: 7819073598  
 Ins Comp: STATE NATIONAL INSURANCE COMPANY  
 Policy Number: NFA 0824093  
 EXP Date: 3/29/2017  
 Facility Size: 36000  
 Transporter Name: RED TECHNOLOGIES, LLC  
 Transporter Address: 10 NORTHWOOD DRIVE  
 Transporter City: BLOOMFIELD  
 Transporter State: CT  
 Final Site: Not reported  
 Certified Name: RANDY REYNOLDS  
 Cert Sign Date: 05/04/2016  
 Certified Company: AMERICAN ENVIRONMENTAL, INC.  
 Certified Phone: 4133227190

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Entered_by:	METROREMIATOR
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	04/17/2013
End Date:	04/18/2013
Date Entered:	Not reported
Entry Date:	04/16/2013
Quantity Material Removed SF:	900.00
Quantity Material Removed LF:	.00
Project Description:	Trms
AR Tracking ID:	171891
Super Lic Number:	AS900109
Monitor Lic Number:	AA000216
Lab Lic Number:	AA000118
Year:	2013
Sticker Number:	100175770
Form Type:	ANF-001
Fee Status:	Fifty
Facility Phone:	0000000000
Sub Town:	Not reported
Worksite:	TRUCK TRAILER
Occupied:	0
Contractor:	AC000509
Contract Type:	WRITTEN
Hours:	Week days: 0730-1700 Week end: N/A
Project Type:	Oth:CLEAN-UP
Abatement Process:	Encl
Location:	Not reported
Decon Process:	REMOTE THREE STAGE
Disposal Methods:	ACM WILL BE MISTED, REBAGGED, SEALED, LABELED AND MOVED TO TEMP FACILITY FOR DISPOSAL
Facility Usage:	TRUCK BOX TRAILER
Waiver Given:	Not reported
DEP Waiver Number:	SE-13-131
DLWD Waiver Number:	6221-2013
Small Owner Occ:	5
Owner Name:	ASSET RECOVERY GROUP
Owner Address:	1000 PAGE AVE, 2ND FLOOR
Owner City:	LYNDHURST
Owner State:	MA
On Site Manager Name:	KEVIN DOWNEY
On Site Manager Phone:	508-431-8990
Ins Comp:	CHARTIS
Policy Number:	WC5315048
EXP Date:	4/22/2013
Facility Size:	900
Transporter Name:	TMC ENVIRONMENTAL
Transporter Address:	19 NATIONAL DRIVE
Transporter City:	FRANKLIN
Transporter State:	Not reported
Final Site:	39
Certified Name:	JIM CONNOLLY
Cert Sign Date:	04/16/2013
Certified Company:	TMC ENVIRONMENTAL
Certified Phone:	5089663737

Database(s) EDR ID Number  
EPA ID Number



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Entered\_by: Not reported  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 05/02/2014  
 End Date: 12/30/2014  
 Date Entered: Not reported  
 Entry Date: 04/23/2014  
 Quantity Material Removed SF: 5000.00  
 Quantity Material Removed LF: 1500.00  
 Project Description: Insl,Trwl  
 AR Tracking ID: 187802  
 Super Lic Number: AS033421  
 Monitor Lic Number: AM000146  
 Lab Lic Number: AA000208  
 Year: 2014  
 Sticker Number: 100197015  
 Form Type: ANF-001  
 Fee Status: Fifty  
 Facility Phone: Not reported  
 Sub Town: Not reported  
 Worksite: CONVEYOR CAT WALK  
 Occupied: 0  
 Contractor: AC000831  
 Contract Type: WRITTEN  
 Hours: Week days: 7-3:30PM Week end:  
 Project Type: Dem  
 Abatement Process: Encl,Fcontain,Encp  
 Location: Not reported  
 Decon Process: THREE CHAMBER DECON  
 Disposal Methods: WETTED MATERIALS TO BE DOUBLE BAG  
 Facility Usage: Not reported  
 Waiver Given: Not reported  
 DEP Waiver Number: SE-14-133  
 DLWD Waiver Number: 9351-2014  
 Small Owner Occ: 5  
 Owner Name: GREAT NORTHERN SITE CORP  
 Owner Address: 85-87 BOSTON STREET  
 Owner City: EVERETT, MA  
 Owner State: MA  
 On Site Manager Name: ETHAN OWEN  
 On Site Manager Phone: Not reported  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: RECOVERY EXPRESS, INC  
 Transporter Address: 180 CANAL STREET.  
 Transporter City: BOSTON, MA  
 Transporter State: Not reported  
 Final Site: 39  
 Certified Name: JESSDA  
 Cert Sign Date: 04/17/2014  
 Certified Company: ASP ENVIRONMENTAL  
 Certified Phone: 9789059936  
 Entered\_by: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 03/10/2008  
 End Date: 03/12/2008  
 Date Entered: Not reported  
 Entry Date: 02/28/2008  
 Quantity Material Removed SF: Not reported  
 Quantity Material Removed LF: 300.00  
 Project Description: THERMAL INSUL  
 AR Tracking ID: 95010  
 Super Lic Number: AS000913  
 Monitor Lic Number: AM073892  
 Lab Lic Number: AA000144  
 Year: Not reported  
 Sticker Number: 304876  
 Form Type: ANF-001  
 Fee Status: F  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: COAL BUNKER,SOUTHEAST CORNER, ELECVATION 222  
 Occupied: -1  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 7-330  
 Project Type: Not reported  
 Abatement Process: Not reported  
 Location: Not reported  
 Decon Process: AS REQUIRED  
 Disposal Methods: WET 2 PLY POLY BAG  
 Facility Usage: Not reported  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: Not reported  
 Owner Name: NRG SOMERSET OPS  
 Owner Address: 1606 RIVERSIDE AVE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: Not reported  
 Transporter Address: Not reported  
 Transporter City: Not reported  
 Transporter State: Not reported  
 Final Site: 10  
 Certified Name: J GERARD ANDRUS  
 Cert Sign Date: Not reported  
 Certified Company: Not reported  
 Certified Phone: Not reported  
 Entered\_by: mmitchell  
  
 Notification: Not reported  
 DEP Region: Not reported

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 04/19/2002  
 End Date: 04/22/2002  
 Date Entered: Not reported  
 Entry Date: 04/25/2002  
 Quantity Material Removed SF: 300.00  
 Quantity Material Removed LF: .00  
 Project Description: Boiler Coatings  
 AR Tracking ID: 14203  
 Super Lic Number: AS040221  
 Monitor Lic Number: Not reported  
 Lab Lic Number: AA000144  
 Year: 2002  
 Sticker Number: 554698  
 Form Type: ANF-001  
 Fee Status: 50  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: 237 unit 8 porthouse  
 Occupied: -1  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 7a-3:30  
 Project Type: Renovation  
 Abatement Process: Full Containment  
 Location: Indoors  
 Decon Process: 3 chamber  
 Disposal Methods: 2 Ply Poly Bag with Label  
 Facility Usage: power generator  
 Waiver Given: -1  
 DEP Waiver Number: se02-083  
 DLWD Waiver Number: vwa-002568  
 Small Owner Occ: 0  
 Owner Name: nrg-somerset operations  
 Owner Address: 1606 riverside avenue  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: american protection  
 Policy Number: 5br0029072  
 EXP Date: 04/01/03  
 Facility Size: 120000  
 Transporter Name: JOB ROLLOFF INC  
 Transporter Address: PO BOX 6037  
 Transporter City: CHELSEA  
 Transporter State: MA  
 Final Site: 29  
 Certified Name: daniel labastie  
 Cert Sign Date: 04/19/2002  
 Certified Company: Not reported  
 Certified Phone: (781) 953-1719  
 Entered\_by: Not reported  
  
 Notification: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Notifiers Name: Not reported  
 Start Date: 05/04/2016  
 End Date: 05/31/2016  
 Date Entered: Not reported  
 Entry Date: 05/03/2016  
 Quantity Material Removed SF: 1600.00  
 Quantity Material Removed LF: Not reported  
 Project Description: OTHER SOIL  
 AR Tracking ID: 237582  
 Super Lic Number: AS061838  
 Monitor Lic Number: AM002542  
 Lab Lic Number: AA000197  
 Year: 2016  
 Sticker Number: 100242237  
 Form Type: ANF-001  
 Fee Status: HUNDRED  
 Facility Phone: 7819073598  
 Sub Town: Not reported  
 Worksite: TANK # 2  
 Occupied: 0  
 Contractor: AC000877  
 Contract Type: WRITTEN  
 Hours: 7AM-5PM  
 Project Type: Dem  
 Abatement Process: Clnp  
 Location: OUTDOORS  
 Decon Process: DECONTAMINATION STATION/WASH STATION  
 Disposal Methods: 2-10 MIL LINERS IN ROLL-OFF CONTAINERS  
 Facility Usage: FORMER OIL STORAGE TANK  
 Waiver Given: Not reported  
 DEP Waiver Number: SAW-16-112  
 DLWD Waiver Number: 1B-1669BS  
 Small Owner Occ: 0  
 Owner Name: NEW ENGLAND POWER  
 Owner Address: 40 SYLVAN ROAD  
 Owner City: WALTHAM  
 Owner State: MA  
 On Site Manager Name: ERIN HHORISKEY  
 On Site Manager Phone: 7819073598  
 Ins Comp: STARR INDEMNITY  
 Policy Number: 10000336719151  
 EXP Date: 9/28/2016  
 Facility Size: 500000  
 Transporter Name: WL FRENCH EXCAVATING CORP.  
 Transporter Address: 3 SURVEY CIRCLE  
 Transporter City: NORTH BILLERICA  
 Transporter State: MA  
 Final Site: Not reported  
 Certified Name: ED PRICE  
 Cert Sign Date: 05/03/2016  
 Certified Company: CHARTER CONTRACTING COMPANY LLC  
 Certified Phone: 6175930997  
 Entered\_by: EPRICE  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Start Date: 03/30/2009  
 End Date: 03/30/2009  
 Date Entered: Not reported  
 Entry Date: 03/19/2009  
 Quantity Material Removed SF: Not reported  
 Quantity Material Removed LF: 6.00  
 Project Description: Thermal solid core  
 AR Tracking ID: 110585  
 Super Lic Number: AS000913  
 Monitor Lic Number: AM061057  
 Lab Lic Number: AA000144  
 Year: Not reported  
 Sticker Number: 306027  
 Form Type: ANF-001  
 Fee Status: F  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: GRADE 125 NORTH SIDE NEAR #3 ELEVATOR  
 Occupied: -1  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 7-3:30  
 Project Type: Repair  
 Abatement Process: Glove Bag  
 Location: Indoors  
 Decon Process: AS REQUIRED  
 Disposal Methods: WET 2 PLY POLY BAG  
 Facility Usage: Not reported  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: Not reported  
 Owner Name: NRG SOMERST OPERATIONS  
 Owner Address: 1606 RIVERSIDE AVE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: DUMPSTER ON SITE  
 Transporter Address: Not reported  
 Transporter City: Not reported  
 Transporter State: Not reported  
 Final Site: Not reported  
 Certified Name: J GERARD ANDRUS  
 Cert Sign Date: Not reported  
 Certified Company: Not reported  
 Certified Phone: Not reported  
 Entered\_by: acooney  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 03/13/2006

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

End Date:	03/15/2006
Date Entered:	Not reported
Entry Date:	02/27/2006
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	30.00
Project Description:	Thermal solid core
AR Tracking ID:	64812
Super Lic Number:	AS052056
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	302161
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	STOREROOM, GROUND FLOOR, SOUTHWEST CORNER
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7-3:30
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	AS REQUIRED
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	1606 RIVERSIDE AVE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF
Transporter Address:	PO BOX 6037
Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	7
Certified Name:	J GERARD ANDRUS
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	esandler
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	05/18/2009
End Date:	05/19/2009

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Date Entered: Not reported  
 Entry Date: 05/08/2009  
 Quantity Material Removed SF: Not reported  
 Quantity Material Removed LF: 30.00  
 Project Description: ThERermal solid core  
 AR Tracking ID: 112406  
 Super Lic Number: AS000913  
 Monitor Lic Number: AM061057  
 Lab Lic Number: AA000144  
 Year: Not reported  
 Sticker Number: 306029  
 Form Type: ANF-001  
 Fee Status: F  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: GRADE 118 MIDWAY ON MAIN FLR BY ELECTRICIANS DOOR  
 Occupied: -1  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 7-330  
 Project Type: Not reported  
 Abatement Process: Not reported  
 Location: Not reported  
 Decon Process: AS REQUIRED  
 Disposal Methods: WET 2 PLY POLY BAG  
 Facility Usage: Not reported  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: Not reported  
 Owner Name: NRG SOMERSET OPS  
 Owner Address: 16-6 RIVERSIDE AVE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: DUMPSTER ON SITE  
 Transporter Address: Not reported  
 Transporter City: Not reported  
 Transporter State: Not reported  
 Final Site: Not reported  
 Certified Name: J GERARD ANDRUS  
 Cert Sign Date: Not reported  
 Certified Company: Not reported  
 Certified Phone: Not reported  
 Entered\_by: mmitchell  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 07/06/2004  
 End Date: 07/16/2004  
 Date Entered: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Entry Date: 06/24/2004  
 Quantity Material Removed SF: 500.00  
 Quantity Material Removed LF: Not reported  
 Project Description: THERMAL BLOCK  
 AR Tracking ID: 41308  
 Super Lic Number: AS070996  
 Monitor Lic Number: AM061057  
 Lab Lic Number: AA000144  
 Year: Not reported  
 Sticker Number: 1561630  
 Form Type: ANF-001  
 Fee Status: F  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: #3 OIL TANK HEAT EXHANGER  
 Occupied: -1  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 7A-330P  
 Project Type: Not reported  
 Abatement Process: Not reported  
 Location: Not reported  
 Decon Process: AS REQUIRED  
 Disposal Methods: WET 2 PLY POLY BAG  
 Facility Usage: Not reported  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: Not reported  
 Owner Name: NRG SOMERSET OPS  
 Owner Address: 1606 RIVERSIDE AVE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: JOB ROLLOFF INC  
 Transporter Address: PO BOX 6037  
 Transporter City: CHELSEA  
 Transporter State: MA  
 Final Site: 18  
 Certified Name: DANIEL LABASTIE  
 Cert Sign Date: Not reported  
 Certified Company: Not reported  
 Certified Phone: Not reported  
 Entered\_by: MMitchell  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 03/12/2008  
 End Date: 03/26/2008  
 Date Entered: Not reported  
 Entry Date: 02/15/2008



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Site	Database(s)	EDR ID Number	EPA ID Number
Quantity Material Removed SF:	450.00		
Quantity Material Removed LF:	.00		
Project Description:	Blr		
AR Tracking ID:	94614		
Super Lic Number:	AS040887		
Monitor Lic Number:	AM033696		
Lab Lic Number:	AA000170		
Year:	2008		
Sticker Number:	100068041		
Form Type:	ANF-001		
Fee Status:	Fifty		
Facility Phone:	5082352007		
Sub Town:	Not reported		
Worksite:	BOILER HOUSE		
Occupied:	-1		
Contractor:	AC000120		
Contract Type:	WRITTEN		
Hours:	Week days: 7AM-7PM Week end:		
Project Type:	Rpr		
Abatement Process:	Fcontain		
Location:	Indoors		
Decon Process:	3 STAGE DECON CONSTRUCTED OUTSIDE OF THE WORK AREA, USED AS ONLY ENTRANCE/EXIT		
Disposal Methods:	WET DOWN, DOUBLE BAG, LABEL AND SHIP IN DOT APPROVED CONTAINERS		
Facility Usage:	SOMERSET POWER ELECTRICAL		
Waiver Given:	Not reported		
DEP Waiver Number:	Not reported		
DLWD Waiver Number:	Not reported		
Small Owner Occ:	5		
Owner Name:	SOMERSET POWER		
Owner Address:	1606 RIVERSIDE AVENUE		
Owner City:	SOMERSET		
Owner State:	MA		
On Site Manager Name:	JEFFREY ARAUJO		
On Site Manager Phone:	508-235-2007		
Ins Comp:	ZURICH AMERICAN INSURANCE		
Policy Number:	WC9428620-00		
EXP Date:	1/18/2009		
Facility Size:	Not reported		
Transporter Name:	FLEET ENVIRONMENTAL SERVICES		
Transporter Address:	75 D YORK AVENUE		
Transporter City:	RANDOLPH		
Transporter State:	Not reported		
Final Site:	47		
Certified Name:	KATE TIMBERLAKE		
Cert Sign Date:	02/15/2008		
Certified Company:	FLEET ENVIRONMENTAL SVC		
Certified Phone:	7818151100		
Entered_by:	Not reported		
Notification:	Not reported		
DEP Region:	Not reported		
Notifiers Name:	Not reported		
Start Date:	10/03/2002		
End Date:	10/13/2002		
Date Entered:	Not reported		
Entry Date:	09/19/2002		

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Quantity Material Removed SF: .00  
 Quantity Material Removed LF: 200.00  
 Project Description: Thermal solid core  
 AR Tracking ID: 15180  
 Super Lic Number: AS040221  
 Monitor Lic Number: Not reported  
 Lab Lic Number: AA000144  
 Year: 2002  
 Sticker Number: 556993  
 Form Type: ANF-001  
 Fee Status: 50  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: pumphouse oil tank #3  
 Occupied: 0  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: m-f 7-330  
 Project Type: Renovation  
 Abatement Process: glove Bag\cleanup\encapsulation  
 Location: Indoors  
 Decon Process: wetwipe,hepavac,isolated  
 Disposal Methods: 2 Ply Poly Bag with Label  
 Facility Usage: power generator  
 Waiver Given: 0  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: NRG somerset ops  
 Owner Address: 1606 riverside avenue  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: amer protection ins co  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: 140000 sf 7 fl  
 Transporter Name: JOB ROLLOFF INC  
 Transporter Address: PO BOX 6037  
 Transporter City: CHELSEA  
 Transporter State: MA  
 Final Site: 7  
 Certified Name: daniel p labastie jr  
 Cert Sign Date: 09/18/2002  
 Certified Company: Not reported  
 Certified Phone: (508) 755-1355  
 Entered\_by: Not reported  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 07/07/2003  
 End Date: 07/25/2003  
 Date Entered: Not reported  
 Entry Date: 06/26/2003  
 Quantity Material Removed SF: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Quantity Material Removed LF:	620.00
Project Description:	Thermal solid core
AR Tracking ID:	26908
Super Lic Number:	Not reported
Monitor Lic Number:	Not reported
Lab Lic Number:	Not reported
Year:	Not reported
Sticker Number:	200363
Form Type:	ANF-001
Fee Status:	60
Facility Phone:	Not reported
Sub Town:	Not reported
Worksite:	Not reported
Occupied:	Not reported
Contractor:	AC000120
Contract Type:	Not reported
Hours:	Not reported
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	Not reported
Disposal Methods:	Not reported
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	SERVICE TRAN
Transporter Address:	Not reported
Transporter City:	BRISTOL
Transporter State:	PA
Final Site:	37
Certified Name:	MARY FORD
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	swhite
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	07/09/2003
End Date:	07/11/2003
Date Entered:	Not reported
Entry Date:	06/26/2003
Quantity Material Removed SF:	240.00
Quantity Material Removed LF:	60.00

Database(s) EDR ID Number  
 EPA ID Number

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Project Description:	Boiler Coatings
AR Tracking ID:	26921
Super Lic Number:	Not reported
Monitor Lic Number:	Not reported
Lab Lic Number:	Not reported
Year:	Not reported
Sticker Number:	200406
Form Type:	ANF-001
Fee Status:	60
Facility Phone:	Not reported
Sub Town:	Not reported
Worksite:	Not reported
Occupied:	Not reported
Contractor:	AC000490
Contract Type:	Not reported
Hours:	Not reported
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	Not reported
Disposal Methods:	Not reported
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF INC
Transporter Address:	Not reported
Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	7
Certified Name:	LABASTIE
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	fuminski
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	10/17/2007
End Date:	10/17/2007
Date Entered:	Not reported
Entry Date:	10/23/2007
Quantity Material Removed SF:	64.00
Quantity Material Removed LF:	Not reported
Project Description:	Boiler Coatings

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

AR Tracking ID: 90373  
 Super Lic Number: AS000913  
 Monitor Lic Number: AM061057  
 Lab Lic Number: AA000144  
 Year: Not reported  
 Sticker Number: 304015  
 Form Type: ANF-001  
 Fee Status: F  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: BOILER AT 203' LEVEL/NORTH AND SOUTH WALL  
 Occupied: -1  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 7-330  
 Project Type: Not reported  
 Abatement Process: Not reported  
 Location: Not reported  
 Decon Process: 2 CHAMBER  
 Disposal Methods: WET 2 PLY POLY BAG  
 Facility Usage: Not reported  
 Waiver Given: -1  
 DEP Waiver Number: SE07263  
 DLWD Waiver Number: SP07364  
 Small Owner Occ: Not reported  
 Owner Name: NRG SOMERSET OPS  
 Owner Address: 1606 RIVERSIDE AVE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: ATLANTIC CONTRACTING  
 Transporter Address: 25 KENWOOD CIR, STE H  
 Transporter City: FRANKLIN  
 Transporter State: MA  
 Final Site: Not reported  
 Certified Name: J GERARD ANDRUS  
 Cert Sign Date: 10/16/2007  
 Certified Company: Not reported  
 Certified Phone: Not reported  
 Entered\_by: mmitchell  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 04/20/2016  
 End Date: 04/29/2016  
 Date Entered: Not reported  
 Entry Date: 04/20/2016  
 Quantity Material Removed SF: 1600.00  
 Quantity Material Removed LF: Not reported  
 Project Description: OTHER SOIL  
 AR Tracking ID: 236542

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Super Lic Number: AS061838  
 Monitor Lic Number: AM002542  
 Lab Lic Number: AA000197  
 Year: 2016  
 Sticker Number: 100241313  
 Form Type: ANF-001  
 Fee Status: HUNDRED  
 Facility Phone: 7819073598  
 Sub Town: Not reported  
 Worksite: TANK #2  
 Occupied: 0  
 Contractor: AC000877  
 Contract Type: WRITTEN  
 Hours: 7AM - 5PM  
 Project Type: Dem  
 Abatement Process: Clnp  
 Location: OUTDOORS  
 Decon Process: DECONTAMINATION STATION/WASH STATION  
 Disposal Methods: 2- 10 MIL LINERS IN ROLL-OFF CONTAINER  
 Facility Usage: FORMER OIL STORAGE TANK  
 Waiver Given: Not reported  
 DEP Waiver Number: SAW-16-112  
 DLWD Waiver Number: 1B-1669BS  
 Small Owner Occ: 0  
 Owner Name: NEW ENGLAND POWER  
 Owner Address: 40 SYLVAN ROAD  
 Owner City: WALTHAM  
 Owner State: MA  
 On Site Manager Name: ERIN WHORISKEY  
 On Site Manager Phone: 7819073598  
 Ins Comp: STARR INSURANCE COMPANY  
 Policy Number: 10000336719151  
 EXP Date: 9/28/2016  
 Facility Size: 500000  
 Transporter Name: WL FRENCH EXCAVATING CORP  
 Transporter Address: 3 SURVEY CIRCLE  
 Transporter City: NORTH BILLERICA  
 Transporter State: MA  
 Final Site: Not reported  
 Certified Name: ED PRICE  
 Cert Sign Date: 04/20/2016  
 Certified Company: CHARTER  
 Certified Phone: 6175930997  
 Entered\_by: EPRICE  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 02/17/2011  
 End Date: 02/20/2011  
 Date Entered: Not reported  
 Entry Date: 02/16/2011  
 Quantity Material Removed SF: .00  
 Quantity Material Removed LF: 20.00  
 Project Description: Other:  
 AR Tracking ID: 137836  
 Super Lic Number: AS040887

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Monitor Lic Number: AM033696  
 Lab Lic Number: AA000170  
 Year: 2011  
 Sticker Number: 100120902  
 Form Type: ANF-001  
 Fee Status: Fifty  
 Facility Phone: 5089228691  
 Sub Town: Not reported  
 Worksite: POWER HOUSE  
 Occupied: 0  
 Contractor: AC000701  
 Contract Type: WRITTEN  
 Hours: Week days: 7AM330PM Week end: 7AM330PM  
 Project Type: Rpr  
 Abatement Process: Fcontain  
 Location: Indoors  
 Decon Process: THREE CHAMBER DECONTAMINATION UNIT ADJACENT TO THE WORK AREA.  
 Disposal Methods: ALL WASTE WILL BE PROPERLY WETTED & DOUBLED STORED IN A EPA APPROVED CONTAINER FOR DISPOSAL.  
 Facility Usage: ELECTRICAL POWER  
 Waiver Given: Not reported  
 DEP Waiver Number: SE11033  
 DLWD Waiver Number: HV11053  
 Small Owner Occ: 5  
 Owner Name: NRG  
 Owner Address: 1606 RIVERSIDE AVE  
 Owner City: SOMERSET, MA  
 Owner State: MA  
 On Site Manager Name: MIKE COSTA  
 On Site Manager Phone: 508-922-8691  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: MORAN ENVIRONMENTAL RECOVERY  
 Transporter Address: 75 YORK AVE  
 Transporter City: RANDOLPH, MA  
 Transporter State: Not reported  
 Final Site: 39  
 Certified Name: JIM SILVIA SR  
 Cert Sign Date: 02/16/2011  
 Certified Company: MORAN  
 Certified Phone: 7818151100  
 Entered\_by: Not reported  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 12/10/2007  
 End Date: 12/10/2007  
 Date Entered: Not reported  
 Entry Date: 11/27/2007  
 Quantity Material Removed SF: Not reported  
 Quantity Material Removed LF: 12.00  
 Project Description: Thermal solid core  
 AR Tracking ID: 91926  
 Super Lic Number: AS000913

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	304019
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	FUEL OIL LINE
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7-3:30
Project Type:	Repair
Abatement Process:	Glove Bag
Location:	Indoors
Decon Process:	AS REQUIRED
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	1606 RIVERSIDE AVE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	Not reported
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	Not reported
Certified Name:	J. GERALD ANDRUS
Cert Sign Date:	11/26/2007
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	SBa
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	11/08/2004
End Date:	11/10/2004
Date Entered:	Not reported
Entry Date:	10/28/2004
Quantity Material Removed SF:	84.00
Quantity Material Removed LF:	Not reported
Project Description:	Transite Board
AR Tracking ID:	46633
Super Lic Number:	AS070095
Monitor Lic Number:	AM061057



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Lab Lic Number: AA000144  
 Year: Not reported  
 Sticker Number: 1561642  
 Form Type: ANF-001  
 Fee Status: F  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: SAMPLE HOUSE  
 Occupied: -1  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 7-330  
 Project Type: Not reported  
 Abatement Process: Not reported  
 Location: Not reported  
 Decon Process: AS REQUIRED  
 Disposal Methods: WET 2 PLY POLY BAG  
 Facility Usage: Not reported  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: Not reported  
 Owner Name: NRG SOMERSET OPERATIONS  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: JOB ROLLOFFS  
 Transporter Address: POB 6037  
 Transporter City: CHELSEA  
 Transporter State: MA  
 Final Site: 9  
 Certified Name: PAUL CAMARA  
 Cert Sign Date: Not reported  
 Certified Company: Not reported  
 Certified Phone: Not reported  
 Entered\_by: MMitchell  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 03/30/2016  
 End Date: 04/08/2016  
 Date Entered: Not reported  
 Entry Date: 03/30/2016  
 Quantity Material Removed SF: 200.00  
 Quantity Material Removed LF: Not reported  
 Project Description: BOILER  
 AR Tracking ID: 234976  
 Super Lic Number: AS071733  
 Monitor Lic Number: Not reported  
 Lab Lic Number: AA000208

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Year: 2016  
 Sticker Number: 100239966  
 Form Type: ANF-001  
 Fee Status: HUNDRED  
 Facility Phone: 9789073598  
 Sub Town: Not reported  
 Worksite: TANK #2  
 Occupied: 0  
 Contractor: AC000639  
 Contract Type: WRITTEN  
 Hours: 7AM - 5PM  
 Project Type: Dem  
 Abatement Process: Glv,Clnp,Disp, oth:EXTERIOR ABATEMENT  
 Location: OUTDOORS  
 Decon Process: REMOTE 3 CHAMBER DECON  
 Disposal Methods: WETTED ACM TO BE PACKAGED IN TWO 6-MIL POLY BURIAL BAG LINED DRUMS OR WRAPPED IN TWO LAYERS OF 6-MIL POLY, THEN SEALED AND LABELLED  
 Facility Usage: TANK FARM  
 Waiver Given: Not reported  
 DEP Waiver Number: SAW-16-085  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: NEW ENGLAND POWER COMPANY  
 Owner Address: 40 SYLVAN ROAD  
 Owner City: WALTHAM  
 Owner State: MA  
 On Site Manager Name: ERIN WHORISKEY  
 On Site Manager Phone: 7819073598  
 Ins Comp: STATE NATIONAL INSURANCE COMPANY  
 Policy Number: NFA 0824093  
 EXP Date: 3/29/2017  
 Facility Size: 36000  
 Transporter Name: AMERICAN ENVIRONMENTAL, INC.  
 Transporter Address: 18 CANAL STREET  
 Transporter City: HOLYOKE  
 Transporter State: MA  
 Final Site: Not reported  
 Certified Name: RANDY REYNOLDS  
 Cert Sign Date: 03/30/2016  
 Certified Company: AMERICAN ENVIRONMENTAL, INC.  
 Certified Phone: 4133227190  
 Entered\_by: METROREMEDIATOR  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 10/01/2003  
 End Date: 10/01/2003  
 Date Entered: Not reported  
 Entry Date: 09/18/2003  
 Quantity Material Removed SF: Not reported  
 Quantity Material Removed LF: 15.00  
 Project Description: Thermal solid core  
 AR Tracking ID: 31097  
 Super Lic Number: AS070996  
 Monitor Lic Number: AM061057  
 Lab Lic Number: AA000144

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Year: Not reported  
 Sticker Number: 201893  
 Form Type: ANF-001  
 Fee Status: F  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: ELEVATION 137 STEAM DOWNCOMER UNIT N9  
 Occupied: -1  
 Contractor: AC000434  
 Contract Type: Not reported  
 Hours: 7A-330P  
 Project Type: Renovation  
 Abatement Process: Glove Bag  
 Location: Indoors  
 Decon Process: AS REQUIRED  
 Disposal Methods: WET 2 PLY POLY BAG  
 Facility Usage: ELEC GENERA  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: NRG SOMERSET OPERATIONS  
 Owner Address: 1606 RIVERSIDE AVE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: JOB ROLLOFF INC  
 Transporter Address: PO BOX 6037  
 Transporter City: CHELSEA  
 Transporter State: MA  
 Final Site: 9  
 Certified Name: DANIEL LABASTIE  
 Cert Sign Date: Not reported  
 Certified Company: Not reported  
 Certified Phone: (860) 423-6048  
 Entered\_by: mmitchell  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 08/25/2008  
 End Date: 08/29/2008  
 Date Entered: Not reported  
 Entry Date: 08/19/2008  
 Quantity Material Removed SF: Not reported  
 Quantity Material Removed LF: 85.00  
 Project Description: ThERermal solid core  
 AR Tracking ID: 102719  
 Super Lic Number: AS000913  
 Monitor Lic Number: AM061057  
 Lab Lic Number: AA000144  
 Year: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Sticker Number: 305468  
 Form Type: ANF-001  
 Fee Status: F  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: GRADE 105 MID LEVEL; GRADE 118 MID LEVEL  
 Occupied: -1  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 7-330  
 Project Type: Not reported  
 Abatement Process: Not reported  
 Location: Not reported  
 Decon Process: AS REQUIRED  
 Disposal Methods: WET 2 PLY POLY BAG  
 Facility Usage: Not reported  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: Not reported  
 Owner Name: NRG SOMERSET OPS  
 Owner Address: 1606 RIVERSIDE AVE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: Not reported  
 Transporter Address: Not reported  
 Transporter City: Not reported  
 Transporter State: Not reported  
 Final Site: 10  
 Certified Name: J GERARD ANDRUS  
 Cert Sign Date: 08/07/2008  
 Certified Company: Not reported  
 Certified Phone: Not reported  
 Entered\_by: mmitchell  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 06/18/2003  
 End Date: 06/27/2003  
 Date Entered: Not reported  
 Entry Date: 06/26/2003  
 Quantity Material Removed SF: 700.00  
 Quantity Material Removed LF: 15.00  
 Project Description: THERmaL,BOILER BLOCK  
 AR Tracking ID: 26939  
 Super Lic Number: AS070996  
 Monitor Lic Number: AM061057  
 Lab Lic Number: AA000144  
 Year: Not reported  
 Sticker Number: 200404

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Form Type:	ANF-001
Fee Status:	60
Facility Phone:	Not reported
Sub Town:	Not reported
Worksite:	Not reported
Occupied:	Not reported
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7A-3:3P
Project Type:	Renovation
Abatement Process:	Glove Bag
Location:	Indoors
Decon Process:	HEPA VAC
Disposal Methods:	Not reported
Facility Usage:	Not reported
Waiver Given:	-1
DEP Waiver Number:	SE03099
DLWD Waiver Number:	1B03161BS
Small Owner Occ:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF INC
Transporter Address:	PO BOX 6037
Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	7
Certified Name:	Not reported
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	swhite
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	11/09/2010
End Date:	11/17/2010
Date Entered:	Not reported
Entry Date:	10/27/2010
Quantity Material Removed SF:	150.00
Quantity Material Removed LF:	.00
Project Description:	Blr
AR Tracking ID:	133674
Super Lic Number:	AS040887
Monitor Lic Number:	AM033696
Lab Lic Number:	AA000170
Year:	2010
Sticker Number:	100115601
Form Type:	ANF-001

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Fee Status: Fifty  
 Facility Phone: 8606383018  
 Sub Town: Not reported  
 Worksite: MAIN POWER PLANT  
 Occupied: -1  
 Contractor: AC000701  
 Contract Type: WRITTEN  
 Hours: Week days: 7AM330PM Week end: N/A  
 Project Type: Rpr  
 Abatement Process: Clnp,Fcontain  
 Location: Indoors  
 Decon Process: THREE CHAMBER DECONTAMINATION UNIT ADJACENT TO THE WORK AREA.  
 Disposal Methods: ALL WASTE WILL PROPERLY WETTED & DOUBLE BAGGED & STORED IN EPA APPROVED CONTAINER.

Facility Usage: ELECTRICAL POWER PLANT  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 5  
 Owner Name: NRG ENERGY  
 Owner Address: 1606 RIVERSIDE AVE  
 Owner City: SOMERSET, MA  
 Owner State: MA  
 On Site Manager Name: MIKE COSTAS  
 On Site Manager Phone: 860-638-3018  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: MORAN ENVIRONMENTAL RECOVERY  
 Transporter Address: 75 YORK AVE  
 Transporter City: RANDOLPH, MA  
 Transporter State: Not reported  
 Final Site: 39  
 Certified Name: JIM SILVIS SR.  
 Cert Sign Date: 10/27/2010  
 Certified Company: MORAN  
 Certified Phone: 7818151100  
 Entered\_by: Not reported

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 07/23/2007  
 End Date: 07/27/2007  
 Date Entered: Not reported  
 Entry Date: 07/09/2007  
 Quantity Material Removed SF: 80.00  
 Quantity Material Removed LF: .00  
 Project Description: Blr  
 AR Tracking ID: 85483  
 Super Lic Number: AS040887  
 Monitor Lic Number: AM033696  
 Lab Lic Number: AA000170  
 Year: 2007  
 Sticker Number: 100058082  
 Form Type: ANF-001

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Fee Status:	Fifty
Facility Phone:	5082352007
Sub Town:	Not reported
Worksite:	BOILER HOUSE
Occupied:	-1
Contractor:	AC000120
Contract Type:	WRITTEN
Hours:	Week days: 7AP-7PM Week end: 7AM-7PM
Project Type:	Rpr
Abatement Process:	Encp
Location:	Indoors
Decon Process:	TWO CHAMBER DECON AS ONLY ENTRANCE/EXIT
Disposal Methods:	WETDOWN, DOUBLE BAGGED, LABELLED AND SHIPPED IN DOT APPROVED CONTAINERED
Facility Usage:	BOILER HOUSE
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	5
Owner Name:	NRG SOMERSET POWER LLC
Owner Address:	1606 RIVERSIDE AVENUE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	JEFFREY ARAUJO
On Site Manager Phone:	508-235-2007
Ins Comp:	ZURICH AMERICAN INSURANCE
Policy Number:	WC5869371-01
EXP Date:	12/31/2007
Facility Size:	Not reported
Transporter Name:	FLEET ENVIRONMENTAL SERVICES
Transporter Address:	75 D YORK AVENUE
Transporter City:	RANDOLPH
Transporter State:	Not reported
Final Site:	47
Certified Name:	KATE TIMBERLAKE
Cert Sign Date:	07/09/2007
Certified Company:	FLEET ENVIRONMENTAL SVC
Certified Phone:	7818151100
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	03/10/2003
End Date:	03/21/2003
Date Entered:	Not reported
Entry Date:	02/14/2003
Quantity Material Removed SF:	200.00
Quantity Material Removed LF:	175.00
Project Description:	boiler Coatings,thermal solid core pipe insulatio
AR Tracking ID:	22491
Super Lic Number:	AS031575
Monitor Lic Number:	AA000144
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	553832
Form Type:	ANF-001

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Fee Status: 50  
 Facility Phone: (508) 677-0616  
 Sub Town: Not reported  
 Worksite: lighting plant  
 Occupied: Not reported  
 Contractor: AC000062  
 Contract Type: Not reported  
 Hours: m-f 7-3  
 Project Type: removal  
 Abatement Process: Glove Bag  
 Location: Indoors  
 Decon Process: wet,glovebag,neg pressure  
 Disposal Methods: Wet 2 Ply Poly Bag  
 Facility Usage: power plant  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: Not reported  
 Owner Name: nrg  
 Owner Address: 1606 riverside avenue  
 Owner City: somerset  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: commerce&industry  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: NEW ENGLAND ABATEMENT RESOURCES INC  
 Transporter Address: 55 NORTH STREET PO BOX 376  
 Transporter City: CANTON  
 Transporter State: MA  
 Final Site: 7  
 Certified Name: sharon g cohen  
 Cert Sign Date: 02/12/2003  
 Certified Company: Not reported  
 Certified Phone: (781) 828-1812  
 Entered\_by: Not reported

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 08/05/2002  
 End Date: 08/07/2002  
 Date Entered: Not reported  
 Entry Date: 07/18/2002  
 Quantity Material Removed SF: 24.00  
 Quantity Material Removed LF: .00  
 Project Description: Boiler Coatings  
 AR Tracking ID: 15274  
 Super Lic Number: AS040221  
 Monitor Lic Number: Not reported  
 Lab Lic Number: AA000144  
 Year: 2002  
 Sticker Number: 557078  
 Form Type: ANF-001  
 Fee Status: 50



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: pumphouse c oil tr 3  
 Occupied: 0  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: m-f 7-330  
 Project Type: Renovation  
 Abatement Process: glove Bag&cleanup  
 Location: Indoors  
 Decon Process: wetwipe hepa isolated  
 Disposal Methods: 2 Ply Poly Bag with Label  
 Facility Usage: Not reported  
 Waiver Given: 0  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: nrg somerset ops  
 Owner Address: 1606 riverside avenue  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: amer protection ins co  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: 140000 sf 7 fl  
 Transporter Name: JOB ROLLOFF INC  
 Transporter Address: PO BOX 6037  
 Transporter City: CHELSEA  
 Transporter State: MA  
 Final Site: 29  
 Certified Name: daniel p la bastie jr  
 Cert Sign Date: 07/16/2002  
 Certified Company: Not reported  
 Certified Phone: (508) 755-1355  
 Entered\_by: Not reported  
  
 Notification: 100205366R1  
 DEP Region: SE  
 Notifiers Name: ENVIRO STAFFING SOLUTIONS  
 Start Date: 08/13/2014  
 End Date: 02/28/2015  
 Date Entered: 10/11/2014  
 Entry Date: 11/10/2014  
 Quantity Material Removed SF: 22500  
 Quantity Material Removed LF: 8000  
 Project Description: Blr,Spr,Trns  
 AR Tracking ID: Not reported  
 Super Lic Number: Not reported  
 Monitor Lic Number: Not reported  
 Lab Lic Number: Not reported  
 Year: Not reported  
 Sticker Number: Not reported  
 Form Type: Not reported  
 Fee Status: Not reported  
 Facility Phone: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Sub Town:	Not reported
Worksite:	Not reported
Occupied:	Not reported
Contractor:	Not reported
Contract Type:	Not reported
Hours:	Not reported
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	Not reported
Disposal Methods:	Not reported
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	Not reported
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	Not reported
Certified Name:	Not reported
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	Not reported
Notification:	100205366R2
DEP Region:	SE
Notifiers Name:	ENVIRO STAFFING SOLUTIONS
Start Date:	08/13/2014
End Date:	02/28/2015
Date Entered:	26/11/2014
Entry Date:	11/26/2014
Quantity Material Removed SF:	22500
Quantity Material Removed LF:	8000
Project Description:	Blr,Spr,Trns
AR Tracking ID:	Not reported
Super Lic Number:	Not reported
Monitor Lic Number:	Not reported
Lab Lic Number:	Not reported
Year:	Not reported
Sticker Number:	Not reported
Form Type:	Not reported
Fee Status:	Not reported
Facility Phone:	Not reported
Sub Town:	Not reported

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Worksite:	Not reported
Occupied:	Not reported
Contractor:	Not reported
Contract Type:	Not reported
Hours:	Not reported
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	Not reported
Disposal Methods:	Not reported
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	Not reported
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	Not reported
Certified Name:	Not reported
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	Not reported
Notification:	100236964R1
DEP Region:	SE
Notifiers Name:	AMERICAN ENVIRONMENTAL INC
Start Date:	02/19/2016
End Date:	04/29/2016
Date Entered:	29/03/2016
Entry Date:	03/29/2016
Quantity Material Removed SF:	37660
Quantity Material Removed LF:	500
Project Description:	PIPEINSUL OTHER MASTIC COATING
AR Tracking ID:	Not reported
Super Lic Number:	Not reported
Monitor Lic Number:	Not reported
Lab Lic Number:	Not reported
Year:	Not reported
Sticker Number:	Not reported
Form Type:	Not reported
Fee Status:	Not reported
Facility Phone:	Not reported
Sub Town:	Not reported
Worksite:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Occupied:	Not reported
Contractor:	Not reported
Contract Type:	Not reported
Hours:	Not reported
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	Not reported
Disposal Methods:	Not reported
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	Not reported
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	Not reported
Certified Name:	Not reported
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	Not reported
Notification:	100236964R2
DEP Region:	SE
Notifiers Name:	AMERICAN ENVIRONMENTAL INC
Start Date:	02/19/2016
End Date:	05/27/2016
Date Entered:	25/04/2016
Entry Date:	04/25/2016
Quantity Material Removed SF:	37660
Quantity Material Removed LF:	500
Project Description:	PIPEINSUL OTHER MASTIC COATING
AR Tracking ID:	Not reported
Super Lic Number:	Not reported
Monitor Lic Number:	Not reported
Lab Lic Number:	Not reported
Year:	Not reported
Sticker Number:	Not reported
Form Type:	Not reported
Fee Status:	Not reported
Facility Phone:	Not reported
Sub Town:	Not reported
Worksite:	Not reported
Occupied:	Not reported

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Contractor:	Not reported
Contract Type:	Not reported
Hours:	Not reported
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	Not reported
Disposal Methods:	Not reported
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	Not reported
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	Not reported
Certified Name:	Not reported
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	Not reported
Notification:	100244951R1
DEP Region:	SE
Notifiers Name:	NON LICENSED REMOVAL
Start Date:	06/22/2016
End Date:	07/29/2016
Date Entered:	11/07/2016
Entry Date:	07/11/2016
Quantity Material Removed SF:	32000
Quantity Material Removed LF:	0
Project Description:	OTHER ACM COATED STEEL
AR Tracking ID:	Not reported
Super Lic Number:	Not reported
Monitor Lic Number:	Not reported
Lab Lic Number:	Not reported
Year:	Not reported
Sticker Number:	Not reported
Form Type:	Not reported
Fee Status:	Not reported
Facility Phone:	Not reported
Sub Town:	Not reported
Worksite:	Not reported
Occupied:	Not reported
Contractor:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Contract Type:	Not reported
Hours:	Not reported
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	Not reported
Disposal Methods:	Not reported
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	Not reported
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	Not reported
Certified Name:	Not reported
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	05/06/2014
End Date:	08/28/2014
Date Entered:	Not reported
Entry Date:	04/23/2014
Quantity Material Removed SF:	8000.00
Quantity Material Removed LF:	.00
Project Description:	Insl
AR Tracking ID:	187845
Super Lic Number:	AS053930
Monitor Lic Number:	AM000146
Lab Lic Number:	AA000208
Year:	2014
Sticker Number:	100197444
Form Type:	ANF-001
Fee Status:	Fifty
Facility Phone:	Not reported
Sub Town:	Not reported
Worksite:	CAT WALK
Occupied:	0
Contractor:	AC000831
Contract Type:	WRITTEN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Hours:	Week days: 7-3:30PM Week end:
Project Type:	Dem
Abatement Process:	Encl,Fcontain,Encp
Location:	Not reported
Decon Process:	THREE CHAMBER DECON
Disposal Methods:	WETTED MATERIALS TO BE DOUBLE BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	SE-14-134
DLWD Waiver Number:	9391-2014
Small Owner Occ:	5
Owner Name:	GREAT NORTHERN SITE CORP
Owner Address:	85-87 BOSTON STREET.
Owner City:	EVERETT, MA
Owner State:	MA
On Site Manager Name:	ETHAN OWEN
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	RECOERY EXPRESS, INC
Transporter Address:	180 CANAL STREET
Transporter City:	BOSTON, MA
Transporter State:	Not reported
Final Site:	39
Certified Name:	JESSDA
Cert Sign Date:	04/22/2014
Certified Company:	ASP ENVIRONMENTAL
Certified Phone:	9789059936
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	06/21/2007
End Date:	06/22/2007
Date Entered:	Not reported
Entry Date:	06/08/2007
Quantity Material Removed SF:	50.00
Quantity Material Removed LF:	.00
Project Description:	Trwl
AR Tracking ID:	84081
Super Lic Number:	AS040887
Monitor Lic Number:	AM033696
Lab Lic Number:	AA000170
Year:	2007
Sticker Number:	100056572
Form Type:	ANF-001
Fee Status:	Fifty
Facility Phone:	5082352007
Sub Town:	Not reported
Worksite:	AREA # 2
Occupied:	-1
Contractor:	AC000120
Contract Type:	Off
Hours:	Week days: 7AM-7PM Week end:

Database(s) EDR ID Number  
EPA ID Number

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Project Type:	Rpr
Abatement Process:	Clnp
Location:	Indoors
Decon Process:	3 CHAMBER DECON AS ONLY METHOD OF ENTRANCE AND EXIT
Disposal Methods:	WET METHODS, DOUBLE BAGGED, LABELLED AND SHIPPED IN DOT APPROVED CONTAINERS
Facility Usage:	HEAT EXCHANGE TANK
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	5
Owner Name:	NRG
Owner Address:	1606 RIVERSIDE AVENUE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	JEFF ARAUJO
On Site Manager Phone:	508-235-2007
Ins Comp:	ZURICH AMERICAN INSURANCE
Policy Number:	WC5869371-01
EXP Date:	12/31/2007
Facility Size:	Not reported
Transporter Name:	FLEET ENVIRONMENTAL SERVICES
Transporter Address:	75 D YORK AVENUE
Transporter City:	RANDOLPH
Transporter State:	Not reported
Final Site:	47
Certified Name:	KATE TIMBERLAKE
Cert Sign Date:	06/07/2007
Certified Company:	FLEET ENVIRONMENTAL SVC
Certified Phone:	7818151100
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	08/13/2014
End Date:	02/28/2015
Date Entered:	Not reported
Entry Date:	08/12/2014
Quantity Material Removed SF:	22500.00
Quantity Material Removed LF:	8000.00
Project Description:	Blr,Spr,Trns
AR Tracking ID:	195635
Super Lic Number:	AS901198
Monitor Lic Number:	AM040493
Lab Lic Number:	AA000152
Year:	2014
Sticker Number:	100205366
Form Type:	ANF-001
Fee Status:	HUNDRED
Facility Phone:	6173871497
Sub Town:	Not reported
Worksite:	POWER STATION
Occupied:	0
Contractor:	AC000737
Contract Type:	WRITTEN
Hours:	7AM - 330PM



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Project Type: Dem  
 Abatement Process: Glv,Clnp,Fcontain  
 Location: INDOORS  
 Decon Process: REMOTE DECON, CRITICAL BARRIERS, EXCLUSIONS ZONES, FULL CONTAINMENT.  
 Disposal Methods: 2 LAYERS OF 6 MIL POLY, WETTED, SEALED AND SENT TO LICENSED LANDFILL  
 Facility Usage: POWER STATIONS  
 Waiver Given: Not reported  
 DEP Waiver Number: SE-14-174  
 DLWD Waiver Number: 10339-2014  
 Small Owner Occ: 0  
 Owner Name: BILL THIBEAULT  
 Owner Address: 85 BOSTON ST.  
 Owner City: EVERETT  
 Owner State: MA  
 On Site Manager Name: ETHAN OWEN  
 On Site Manager Phone: 4132815851  
 Ins Comp: AIM MUTUAL INSURANCE  
 Policy Number: AWC-400-7029587-2013  
 EXP Date: 8/26/2014  
 Facility Size: 50000  
 Transporter Name: EAST COAST SYSTEMS  
 Transporter Address: 6 CEDAR ST.  
 Transporter City: COTUIT  
 Transporter State: MA  
 Final Site: Not reported  
 Certified Name: RAMON QUEZADA  
 Cert Sign Date: 08/12/2014  
 Certified Company: ENVIRO STAFFING SOLUTIONS  
 Certified Phone: 9787947800  
 Entered\_by: ENVIROSTAFFING28

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 05/27/2008  
 End Date: 05/30/2008  
 Date Entered: Not reported  
 Entry Date: 05/08/2008  
 Quantity Material Removed SF: Not reported  
 Quantity Material Removed LF: 200.00  
 Project Description: Thermal solid core  
 AR Tracking ID: 98006  
 Super Lic Number: AS000913  
 Monitor Lic Number: AM061057  
 Lab Lic Number: AA000144  
 Year: Not reported  
 Sticker Number: 305456  
 Form Type: ANF-001  
 Fee Status: F  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: NORTH TANK YARD NEAR RDWY AND GUARD SHACK  
 Occupied: -1  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 7-330  
 Project Type: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Abatement Process:	Not reported
Location:	Not reported
Decon Process:	AS REQUIRED
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	1606 RIVERSIDE AVE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	DUMPSTER ON SITE
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	Not reported
Certified Name:	j GERARD ANDRUS
Cert Sign Date:	05/06/2008
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	mmitchell
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	06/08/2011
End Date:	06/17/2011
Date Entered:	Not reported
Entry Date:	05/25/2011
Quantity Material Removed SF:	12.00
Quantity Material Removed LF:	.00
Project Description:	Blr
AR Tracking ID:	142348
Super Lic Number:	AS040887
Monitor Lic Number:	AM033696
Lab Lic Number:	AA000170
Year:	2011
Sticker Number:	100126897
Form Type:	ANF-001
Fee Status:	Fifty
Facility Phone:	5082352000
Sub Town:	Not reported
Worksite:	POWER PLANT
Occupied:	0
Contractor:	AC000701
Contract Type:	Off
Hours:	Week days: 0700-1700 Week end: 0700-1700
Project Type:	Rpr,Renv
Abatement Process:	Glv,Encl,Fcontain

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Location:	Indoors
Decon Process:	THREE CHAMBER DECONTAMINATION SETUP ADJACENT TO THE WORK AREA
Disposal Methods:	ACM WILL BE THOROUGHLY WETTED AND PLACED INTO DOUBLE 6-MIL POLY BAGS
Facility Usage:	POWER PLANT
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	5
Owner Name:	NRG ENERGY
Owner Address:	1606 RIVERSIDE AVE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	MICHAEL COSTA
On Site Manager Phone:	508 922 8691
Ins Comp:	GREAT DIVIDE INSURANCE CO
Policy Number:	WCA15278710
EXP Date:	2/28/2012
Facility Size:	Not reported
Transporter Name:	MORAN ENVIRONMENTAL RECOVERY
Transporter Address:	75 D YORK AVE
Transporter City:	RANDOLPH
Transporter State:	Not reported
Final Site:	39
Certified Name:	JOHN TRAVIS
Cert Sign Date:	05/25/2011
Certified Company:	05/25/2011
Certified Phone:	7818151109
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	06/09/2011
End Date:	06/17/2011
Date Entered:	Not reported
Entry Date:	05/25/2011
Quantity Material Removed SF:	10.00
Quantity Material Removed LF:	.00
Project Description:	Blr
AR Tracking ID:	142350
Super Lic Number:	AS040887
Monitor Lic Number:	AM033696
Lab Lic Number:	AA000170
Year:	2011
Sticker Number:	100126901
Form Type:	ANF-001
Fee Status:	Fifty
Facility Phone:	5082352000
Sub Town:	Not reported
Worksite:	POWER PLANT
Occupied:	0
Contractor:	AC000701
Contract Type:	Off
Hours:	Week days: 0700-1700 Week end: 0700-1700
Project Type:	Rpr,Renv
Abatement Process:	GlV,Encl,Fcontain
Location:	Indoors

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Decon Process:	THREE CHAMBER DECONTAMINATION SETUP ADJACENT TO THE WORK AREA
Disposal Methods:	ACM WILL BE THOROUGHLY WETTED AND PLACED INTO DOUBLE 6-MIL POLY BAGS
Facility Usage:	POWER PLANT
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	5
Owner Name:	NRG ENERGY
Owner Address:	1606 RIVERSIDE AVE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	MICHAEL COSTA
On Site Manager Phone:	508 922 8691
Ins Comp:	GREAT DIVIDE INSURANCE CO
Policy Number:	WCA15278710
EXP Date:	2/28/2012
Facility Size:	Not reported
Transporter Name:	MORAN ENVIRONMENTAL RECOVERY
Transporter Address:	75 D YORK AVE
Transporter City:	RANDOLPH
Transporter State:	Not reported
Final Site:	39
Certified Name:	JOHN TRAVIS
Cert Sign Date:	05/25/2011
Certified Company:	05/25/2011
Certified Phone:	7818151109
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	01/02/2008
End Date:	01/11/2008
Date Entered:	Not reported
Entry Date:	12/18/2007
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	120.00
Project Description:	Thermal solid core
AR Tracking ID:	92681
Super Lic Number:	AS000913
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	304867
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	FLR 118 NEAR ELEVATOR #3
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7-330
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	AS REQUIRED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPS
Owner Address:	1606 RIVERSIDE AVE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	DUMPSTER ON SITE
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	Not reported
Certified Name:	J GERARD ANDRUS
Cert Sign Date:	12/12/2007
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	mmitchell
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	12/10/2007
End Date:	12/13/2007
Date Entered:	Not reported
Entry Date:	11/28/2007
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	100.00
Project Description:	Thermal solid core
AR Tracking ID:	92023
Super Lic Number:	AS000913
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	304020
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	MENS ROOM GRADE 118 MIDWAY OF BLDG
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7-330
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	AS REQUIRED
Disposal Methods:	WET 2 PLY POLY BAG

Database(s) EDR ID Number  
EPA ID Number

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	1606 RIVERSIDE AVE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	Not reported
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	Not reported
Certified Name:	J GERAD ANDRUS
Cert Sign Date:	11/26/2007
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	mmitchell
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	04/25/2013
End Date:	05/03/2013
Date Entered:	Not reported
Entry Date:	04/24/2013
Quantity Material Removed SF:	2700.00
Quantity Material Removed LF:	.00
Project Description:	Trns
AR Tracking ID:	172197
Super Lic Number:	AS900109
Monitor Lic Number:	AA000216
Lab Lic Number:	AA000188
Year:	2013
Sticker Number:	100176214
Form Type:	ANF-001
Fee Status:	Fifty
Facility Phone:	0000000000
Sub Town:	Not reported
Worksite:	OUT SIDE LOT AREA
Occupied:	0
Contractor:	AC000509
Contract Type:	WRITTEN
Hours:	Week days: 0700-1700 Week end: N/A
Project Type:	Dem
Abatement Process:	Clnp
Location:	Not reported
Decon Process:	3 STAGE REMOTE
Disposal Methods:	ROOFING MATERIAL WET MECHANICALLY PLACE IN ROLL-OFF, CONCRETE WET PLACED IN DUMP TRAILERS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Facility Usage:	FORMER POWER PLANT
Waiver Given:	Not reported
DEP Waiver Number:	SE-13-130
DLWD Waiver Number:	6290-2013
Small Owner Occ:	5
Owner Name:	ASSET RECOVERY GROUP
Owner Address:	162 VALLEY BLVD
Owner City:	WOOD RIDGE, NJ
Owner State:	MA
On Site Manager Name:	KEVIN DOWNEY
On Site Manager Phone:	508-431-8990
Ins Comp:	HDI GERLING AMERICA INSURANCE
Policy Number:	EWGCC000084913
EXP Date:	4/21/2014
Facility Size:	20,000
Transporter Name:	TMC ENVIRONMENTAL
Transporter Address:	19 NATIONAL DRIVE
Transporter City:	FRANKLIN
Transporter State:	Not reported
Final Site:	39
Certified Name:	JIM CONNOLLY
Cert Sign Date:	04/24/2013
Certified Company:	TMC ENVIRONMENTAL
Certified Phone:	5089663737
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	04/29/2004
End Date:	04/30/2004
Date Entered:	Not reported
Entry Date:	04/14/2004
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	21.00
Project Description:	Thermal solid core
AR Tracking ID:	38492
Super Lic Number:	AS070996
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	1561622
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	BASEMENT BEARING ROOM-COOLING WATER PUMP SET
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7A-330P
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	AS REQUIRED
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	1606 RIVERSIDE AVE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF INC
Transporter Address:	PO BOX 6037
Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	18
Certified Name:	DANIEL LABASTIE
Cert Sign Date:	04/13/2004
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	MMitchell
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	04/27/2005
End Date:	04/28/2005
Date Entered:	Not reported
Entry Date:	04/07/2005
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	15.00
Project Description:	Thermal solid core
AR Tracking ID:	51918
Super Lic Number:	AS070095
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	300741
Form Type:	ANF-001
Fee Status:	85
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	LEVEL 118
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7A-53P
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	HEPA VAC
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	7
Certified Name:	GEORGE DOBBS
Cert Sign Date:	04/01/2005
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	fuminski
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	04/28/2005
End Date:	04/28/2005
Date Entered:	Not reported
Entry Date:	04/07/2005
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	3.00
Project Description:	Thermal solid core
AR Tracking ID:	51919
Super Lic Number:	AS070095
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	300742
Form Type:	ANF-001
Fee Status:	85
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	LEVELS 137
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7A-53P
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	HEPA VAC
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATION
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	7
Certified Name:	GEORGE DOBBS
Cert Sign Date:	04/01/2005
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	fuminski
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	04/28/2005
End Date:	04/29/2005
Date Entered:	Not reported
Entry Date:	04/07/2005
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	9.00
Project Description:	Thermal solid core
AR Tracking ID:	51920
Super Lic Number:	AS070095
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	300743
Form Type:	ANF-001
Fee Status:	85
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	LEVELS 105
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7A-53P
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	HEPA VAC
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	7
Certified Name:	GEORGE DOBBS
Cert Sign Date:	04/01/2005
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	swhite
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	05/16/2005
End Date:	05/16/2005
Date Entered:	Not reported
Entry Date:	05/03/2005
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	4.00
Project Description:	Thermal solid core
AR Tracking ID:	52971
Super Lic Number:	AS070095
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	300765
Form Type:	ANF-001
Fee Status:	85
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	LEVEL 212
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7A-33P
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	HEPA VAC
Disposal Methods:	DBL BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported

Database(s) EDR ID Number  
EPA ID Number

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	7
Certified Name:	GEORGE DOBBS
Cert Sign Date:	05/02/2005
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	fuminski
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	05/04/2005
End Date:	05/06/2005
Date Entered:	Not reported
Entry Date:	04/21/2005
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	10.00
Project Description:	Thermal solid core
AR Tracking ID:	52588
Super Lic Number:	AS070095
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	300774
Form Type:	ANF-001
Fee Status:	85
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	LEVELS 137
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7A-33P
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	DBL SUIT TYVEK
Disposal Methods:	SEAL BAGS
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	7
Certified Name:	GEORGE DOBBS
Cert Sign Date:	04/20/2005
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	fuminski
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	02/08/2006
End Date:	02/14/2006
Date Entered:	Not reported
Entry Date:	01/26/2006
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	200.00
Project Description:	Thermal solid core
AR Tracking ID:	63799
Super Lic Number:	AS052056
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	302159
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	STOREROOM GROUND FLOOR SOUTH END
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7-3:30
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	AS REQUIRED
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	1606 RIVERSIDE AVE

Map ID  
 Direction  
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 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF INC
Transporter Address:	PO BOX 6037
Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	7
Certified Name:	J GERARD ANDRUS
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	esandler
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	11/24/2008
End Date:	12/04/2008
Date Entered:	Not reported
Entry Date:	11/10/2008
Quantity Material Removed SF:	80.00
Quantity Material Removed LF:	.00
Project Description:	Blr
AR Tracking ID:	106624
Super Lic Number:	AS040887
Monitor Lic Number:	AM033696
Lab Lic Number:	AA000170
Year:	2008
Sticker Number:	100081170
Form Type:	ANF-001
Fee Status:	Fifty
Facility Phone:	5082352000
Sub Town:	Not reported
Worksite:	BOILER HOUSE
Occupied:	-1
Contractor:	AC000701
Contract Type:	WRITTEN
Hours:	Week days: 7AM-3:30PM Week end:
Project Type:	Rpr
Abatement Process:	Fcontain
Location:	Indoors
Decon Process:	THREE CHAMBER DECON UNIT
Disposal Methods:	DOUBLE BAG ALL ASBESTOS MATERIALS USING WET METHODS
Facility Usage:	ELECTRICAL POWER
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	5
Owner Name:	NRG
Owner Address:	1606 RIVERSIDE AVE
Owner City:	SOMERSET

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Owner State: MA  
 On Site Manager Name: TODD ANNARUMMO  
 On Site Manager Phone: 508-235-2000  
 Ins Comp: ZURICH AMERICAN INSURANCE  
 Policy Number: WC9428620-00  
 EXP Date: 1/18/2009  
 Facility Size: Not reported  
 Transporter Name: MORAN ENVIRONMENTAL RECOVERY, LLC  
 Transporter Address: 75 D YORK AVENUE  
 Transporter City: RANDOLPH  
 Transporter State: Not reported  
 Final Site: 47  
 Certified Name: KATE TIMBERLAKE  
 Cert Sign Date: 11/10/2008  
 Certified Company: MER, LLC  
 Certified Phone: 7818151100  
 Entered\_by: Not reported

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 04/20/2006  
 End Date: 04/26/2006  
 Date Entered: Not reported  
 Entry Date: 04/11/2006  
 Quantity Material Removed SF: Not reported  
 Quantity Material Removed LF: 9.00  
 Project Description: Thermal solid core  
 AR Tracking ID: 66583  
 Super Lic Number: AS052056  
 Monitor Lic Number: AM061057  
 Lab Lic Number: AA000144  
 Year: Not reported  
 Sticker Number: 302790  
 Form Type: ANF-001  
 Fee Status: F  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: ELEVATION 203 NORTH SIDE MAIN STEAM  
 Occupied: Not reported  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 7-3:30  
 Project Type: Not reported  
 Abatement Process: Not reported  
 Location: Not reported  
 Decon Process: REMOTE DECON  
 Disposal Methods: WET 2 PLY POLY BAG  
 Facility Usage: Not reported  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: Not reported  
 Owner Name: NRG SOMERSET OPERATIONS  
 Owner Address: 1606 RIVERSIDE AVENUE  
 Owner City: SOMERSET  
 Owner State: MA

Map ID  
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MAP FINDINGS

Site

Database(s) EDR ID Number  
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**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF
Transporter Address:	P O BOX 6037
Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	7
Certified Name:	J GERARD ANDRUS
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	esandler
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	04/20/2006
End Date:	04/26/2006
Date Entered:	Not reported
Entry Date:	04/11/2006
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	3.00
Project Description:	Thermal solid core
AR Tracking ID:	66582
Super Lic Number:	AS052056
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	000302789
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	ELEVATION 218
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7-3:30
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	REMOTE DECON
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	1606 RIVERSIDE AVENUE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF
Transporter Address:	PO BOX 6037
Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	7
Certified Name:	J GERARD ANDRUS
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	esandler
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	04/25/2007
End Date:	04/28/2007
Date Entered:	Not reported
Entry Date:	04/03/2007
Quantity Material Removed SF:	32.00
Quantity Material Removed LF:	Not reported
Project Description:	Insulating Cement
AR Tracking ID:	81321
Super Lic Number:	AS070258
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	302785
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	8 BOILER ECONOMIZER INLET VALVE LEVEL 194 SOUTH SIDE
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7-330
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	AS REQUIRED
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPS
Owner Address:	1606 RIVERSIDE AVE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported

Map ID  
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MAP FINDINGS
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Site

Database(s) EDR ID Number  
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**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	Not reported
Transporter Address:	Not reported
Transporter City:	Not reported
Transporter State:	Not reported
Final Site:	Not reported
Certified Name:	J GERARD ANDRUS
Cert Sign Date:	03/28/2007
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	mmitchell
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	04/20/2006
End Date:	04/26/2006
Date Entered:	Not reported
Entry Date:	04/12/2006
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	12.00
Project Description:	Thermal solid core
AR Tracking ID:	66599
Super Lic Number:	AS052056
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	302788
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	ELEVATION 118 UNDER TURBINE REHEAT LINE
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7-3:30
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	REMOTE DECON
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	1606 RIVERSIDE AVENUE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported

Map ID  
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MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF INC
Transporter Address:	PO BOX 6037
Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	7
Certified Name:	J GERARD ANDRUS
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	esandler
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	02/04/2004
End Date:	02/04/2004
Date Entered:	Not reported
Entry Date:	01/15/2004
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	9.00
Project Description:	Thermal solid core
AR Tracking ID:	35429
Super Lic Number:	AS070996
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	202860
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	ELEVATION 118
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7A-330P
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	AS REQUIRED
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	1606 RIVERSIDE AVE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported

Database(s) EDR ID Number  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF INC
Transporter Address:	PO BOX 6037
Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	18
Certified Name:	DANIEL LABASTIE
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	MMitchell
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	09/13/2016
End Date:	09/16/2016
Date Entered:	Not reported
Entry Date:	08/31/2016
Quantity Material Removed SF:	.00
Quantity Material Removed LF:	50.00
Project Description:	OTHER CAULK
AR Tracking ID:	247372
Super Lic Number:	AS071733
Monitor Lic Number:	Not reported
Lab Lic Number:	AA000208
Year:	2016
Sticker Number:	100250086
Form Type:	ANF-001
Fee Status:	HUNDRED
Facility Phone:	9789073598
Sub Town:	Not reported
Worksite:	VAULT
Occupied:	0
Contractor:	AC000639
Contract Type:	WRITTEN
Hours:	7AM-5PM
Project Type:	Dem
Abatement Process:	oth:EXTERIOR ABATEMENT
Location:	OUTDOORS
Decon Process:	THREE STAGE REMOTE DECONTAMINATION UNIT WITH HOT AND COLD WATER
Disposal Methods:	DOUBLED 6 MIL POLY BAGS
Facility Usage:	TANK FARM
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	0
Owner Name:	NEW ENGLAND POWER COMPANY
Owner Address:	40 SYLVAN ROAD
Owner City:	WALTHAM
Owner State:	MA
On Site Manager Name:	ERIN WHORSKEY
On Site Manager Phone:	7819073598
Ins Comp:	STATE NATIONAL INSURANCE COMPANY
Policy Number:	NFA 08424093
EXP Date:	3/29/2017

Map ID  
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MAP FINDINGS

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Facility Size:	36000
Transporter Name:	AMERICAN ENVIRONMENTAL
Transporter Address:	18 CANAL STREET
Transporter City:	HOLYOKE
Transporter State:	MA
Final Site:	Not reported
Certified Name:	RANDY REYNOLDS
Cert Sign Date:	08/31/2016
Certified Company:	AMERICAN ENVIRONMENTAL
Certified Phone:	4133227190
Entered_by:	METROREMIATOR
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	04/18/2005
End Date:	04/19/2005
Date Entered:	Not reported
Entry Date:	04/07/2005
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	12.00
Project Description:	Thermal solid core
AR Tracking ID:	51917
Super Lic Number:	AS070095
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	300740
Form Type:	ANF-001
Fee Status:	85
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	LEVELS 212 & 203
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7A-33P
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	HEPA VAC
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported

Map ID  
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MAP FINDINGS
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Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Transporter Name:	JOB ROLLOFF
Transporter Address:	PO BOX 6037
Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	7
Certified Name:	GEORGE DOBBS
Cert Sign Date:	04/01/2005
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	fuminski
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	10/11/2016
End Date:	11/02/2016
Date Entered:	Not reported
Entry Date:	09/28/2016
Quantity Material Removed SF:	100.00
Quantity Material Removed LF:	815.00
Project Description:	PIPEINSUL OTHER DEBRIS
AR Tracking ID:	249499
Super Lic Number:	AS071733
Monitor Lic Number:	Not reported
Lab Lic Number:	AA000208
Year:	2016
Sticker Number:	100251826
Form Type:	ANF-001
Fee Status:	HUNDRED
Facility Phone:	9789073598
Sub Town:	Not reported
Worksite:	STEAM TUNNELS AND VAULTS
Occupied:	0
Contractor:	AC000639
Contract Type:	WRITTEN
Hours:	7AM-4PM
Project Type:	Renv
Abatement Process:	Glv,Fcontain
Location:	OUTDOORS
Decon Process:	THREE STAGE PERSONNEL DECONTAMINATION UNIT WITH SHOWER REMOTE TO THE WORK AREAS
Disposal Methods:	WETTED DOUBLE LAYER 6 MIL POLY BAGS DRUMS AND GAYLORD BOXES
Facility Usage:	TANK FARM
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	0
Owner Name:	NEW ENGLAND POWER COMPANY
Owner Address:	40 SYLVAN ROAD
Owner City:	WALTHAM
Owner State:	MA
On Site Manager Name:	ERIN WHORINSKEY
On Site Manager Phone:	7819073598
Ins Comp:	STATE NATIONAL INSURANCE COMPANY
Policy Number:	NFA 0824093
EXP Date:	3/29/2017
Facility Size:	36000

Map ID  
Direction  
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MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Transporter Name:	AMERICAN ENVIRONMENTAL, INC.
Transporter Address:	18 CANAL STREET
Transporter City:	HOLYOKE
Transporter State:	MA
Final Site:	Not reported
Certified Name:	RANDY REYNOLDS
Cert Sign Date:	09/28/2016
Certified Company:	AMERICAN ENVIRONMENTAL
Certified Phone:	4133227190
Entered_by:	METROREMIATOR
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	07/09/2002
End Date:	07/09/2002
Date Entered:	Not reported
Entry Date:	06/21/2002
Quantity Material Removed SF:	.00
Quantity Material Removed LF:	30.00
Project Description:	THERMAL SOLID CORE
AR Tracking ID:	1380
Super Lic Number:	AS040221
Monitor Lic Number:	Not reported
Lab Lic Number:	Not reported
Year:	2002
Sticker Number:	556827
Form Type:	ANF-001
Fee Status:	50
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	ELAV. 137 RELOCATE 3/4 STEAM PIPE IN PWR PLANT
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7 am - 3:30 pm
Project Type:	RENOVATION
Abatement Process:	GLOVE BAG
Location:	INDOORS
Decon Process:	HEPA VAC
Disposal Methods:	WET 2 PLY POLY BAG WITH DUMPSTER
Facility Usage:	ELEC. GENERATOR
Waiver Given:	0
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	0
Owner Name:	NRG - SOMERSET OP'S
Owner Address:	1606 RIVERSIDE AVE.
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	AMERICAN PROTECTION INS. CO.
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	100,000
Transporter Name:	JOB ROLLOFF INC

Database(s) EDR ID Number  
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Map ID  
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MAP FINDINGS

Site Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Transporter Address: PO BOX 6037  
 Transporter City: CHELSEA  
 Transporter State: MA  
 Final Site: 29  
 Certified Name: DANIEL PL LABASTIE, JR.  
 Cert Sign Date: 06/20/2002  
 Certified Company: Not reported  
 Certified Phone: (508) 755-1355  
 Entered\_by: Not reported  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 06/10/2002  
 End Date: 06/10/2002  
 Date Entered: Not reported  
 Entry Date: 05/22/2002  
 Quantity Material Removed SF: .00  
 Quantity Material Removed LF: 30.00  
 Project Description: THERMAL SOLID CORE  
 AR Tracking ID: 282  
 Super Lic Number: AS040221  
 Monitor Lic Number: Not reported  
 Lab Lic Number: Not reported  
 Year: 2002  
 Sticker Number: 554693  
 Form Type: ANF-001  
 Fee Status: EXEMPT  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: 2 WATER PIPE BREAKERHOUSE  
 Occupied: 0  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 2a-3:30p  
 Project Type: RENOVATION  
 Abatement Process: GLOVE BAG  
 Location: INDOORS  
 Decon Process: 2 CHAMBER  
 Disposal Methods: 2 PLY POLY BAG WITH LABEL  
 Facility Usage: POWER GENERATION  
 Waiver Given: 0  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: 0  
 Owner Name: NRG-SOMERSET-OPS  
 Owner Address: 1606 RIVERSIDE AVENUE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: AMERICAN PROTECTION INS  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: JOB ROLLOFF INC  
 Transporter Address: PO BOX 6037



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Transporter City:	CHELSEA
Transporter State:	MA
Final Site:	29
Certified Name:	DANIEL P LABASTIE JR
Cert Sign Date:	05/21/2002
Certified Company:	Not reported
Certified Phone:	(508) 755-1355
Entered_by:	Not reported
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	04/14/2004
End Date:	04/14/2004
Date Entered:	Not reported
Entry Date:	03/24/2004
Quantity Material Removed SF:	Not reported
Quantity Material Removed LF:	12.00
Project Description:	Thermal solid core
AR Tracking ID:	37747
Super Lic Number:	AS070996
Monitor Lic Number:	AM061057
Lab Lic Number:	AA000144
Year:	Not reported
Sticker Number:	1561620
Form Type:	ANF-001
Fee Status:	F
Facility Phone:	(508) 235-2000
Sub Town:	Not reported
Worksite:	ELEVATION 108 STEAM TRAP LINE NEAR PULVERIZERS
Occupied:	-1
Contractor:	AC000490
Contract Type:	Not reported
Hours:	7A-330P
Project Type:	Not reported
Abatement Process:	Not reported
Location:	Not reported
Decon Process:	AS REQUIRED
Disposal Methods:	WET 2 PLY POLY BAG
Facility Usage:	Not reported
Waiver Given:	Not reported
DEP Waiver Number:	Not reported
DLWD Waiver Number:	Not reported
Small Owner Occ:	Not reported
Owner Name:	NRG SOMERSET OPERATIONS
Owner Address:	1606 RIVERSIDE AVE
Owner City:	SOMERSET
Owner State:	MA
On Site Manager Name:	Not reported
On Site Manager Phone:	Not reported
Ins Comp:	Not reported
Policy Number:	Not reported
EXP Date:	Not reported
Facility Size:	Not reported
Transporter Name:	JOB ROLLOFF INC
Transporter Address:	PO BOX 6037
Transporter City:	CHELSEA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Transporter State:	MA
Final Site:	18
Certified Name:	DANIEL LABASTIE
Cert Sign Date:	Not reported
Certified Company:	Not reported
Certified Phone:	Not reported
Entered_by:	MMitchell
Notification:	Not reported
DEP Region:	Not reported
Notifiers Name:	Not reported
Start Date:	06/22/2016
End Date:	07/29/2016
Date Entered:	Not reported
Entry Date:	06/14/2016
Quantity Material Removed SF:	32000.00
Quantity Material Removed LF:	.00
Project Description:	OTHER ACM COATED STEEL
AR Tracking ID:	240948
Super Lic Number:	AS000000
Monitor Lic Number:	Not reported
Lab Lic Number:	Not reported
Year:	2016
Sticker Number:	100244951
Form Type:	ANF-001
Fee Status:	HUNDRED
Facility Phone:	7819073598
Sub Town:	Not reported
Worksite:	TANK #2
Occupied:	0
Contractor:	AC000000
Contract Type:	WRITTEN
Hours:	7 AM - 4:00 PM
Project Type:	Dem
Abatement Process:	Disp
Location:	OUTDOORS
Decon Process:	THREE CHAMBER REMOTE DECONTAMINATION WITH HOT AND COLD WATER
Disposal Methods:	DOUBLED 10-MIL TRUCK LINERS
Facility Usage:	TANK FARM
Waiver Given:	Not reported
DEP Waiver Number:	SAW-16-133
DLWD Waiver Number:	Not reported
Small Owner Occ:	0
Owner Name:	NEW ENGLAND POWER COMPANY
Owner Address:	40 SYLVAN ROAD
Owner City:	WALTHAM
Owner State:	MA
On Site Manager Name:	ERIN WHORISKEY
On Site Manager Phone:	7819073598
Ins Comp:	GREAT DIVIDE INSURANCE CO.
Policy Number:	WCA1523267-15
EXP Date:	11/1/2016
Facility Size:	36000
Transporter Name:	W. L. FRENCH
Transporter Address:	3 SURVEY CIRCLE
Transporter City:	N. BILLERICA
Transporter State:	MA

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Final Site: Not reported  
 Certified Name: JOHN COSTELLO  
 Cert Sign Date: 06/14/2016  
 Certified Company: COSTELLO DISMANTLING CO., INC.  
 Certified Phone: 5089589242  
 Entered\_by: SANDICLOUTIER

Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 06/08/2004  
 End Date: 06/11/2004  
 Date Entered: Not reported  
 Entry Date: 05/26/2004  
 Quantity Material Removed SF: Not reported  
 Quantity Material Removed LF: 100.00  
 Project Description: Thermal solid core  
 AR Tracking ID: 40092  
 Super Lic Number: AS070996  
 Monitor Lic Number: AM061057  
 Lab Lic Number: AA000144  
 Year: Not reported  
 Sticker Number: 1561626  
 Form Type: ANF-001  
 Fee Status: F  
 Facility Phone: (508) 235-2000  
 Sub Town: Not reported  
 Worksite: ELEVATION 118 STEAM DRAIN  
 Occupied: -1  
 Contractor: AC000490  
 Contract Type: Not reported  
 Hours: 7A-330P  
 Project Type: Not reported  
 Abatement Process: Not reported  
 Location: Not reported  
 Decon Process: AS REQUIREED  
 Disposal Methods: WET 2 PLY POLY BAG  
 Facility Usage: Not reported  
 Waiver Given: Not reported  
 DEP Waiver Number: Not reported  
 DLWD Waiver Number: Not reported  
 Small Owner Occ: Not reported  
 Owner Name: NRG SOMERSET OPERATIONS  
 Owner Address: 1606 RIVERSIDE AVE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: Not reported  
 On Site Manager Phone: Not reported  
 Ins Comp: Not reported  
 Policy Number: Not reported  
 EXP Date: Not reported  
 Facility Size: Not reported  
 Transporter Name: JOB ROLLOFF INC  
 Transporter Address: PO BOX 6037  
 Transporter City: CHELSEA  
 Transporter State: MA  
 Final Site: 18

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Certified Name: DANIEL LABASTIE  
 Cert Sign Date: 05/24/2004  
 Certified Company: Not reported  
 Certified Phone: Not reported  
 Entered\_by: MMitchell  
  
 Notification: Not reported  
 DEP Region: Not reported  
 Notifiers Name: Not reported  
 Start Date: 11/03/2010  
 End Date: 11/05/2010  
 Date Entered: Not reported  
 Entry Date: 10/15/2010  
 Quantity Material Removed SF: 100.00  
 Quantity Material Removed LF: .00  
 Project Description: Thrm  
 AR Tracking ID: 133128  
 Super Lic Number: AS040887  
 Monitor Lic Number: AM033696  
 Lab Lic Number: AA000170  
 Year: 2010  
 Sticker Number: 100114867  
 Form Type: ANF-001  
 Fee Status: Fifty  
 Facility Phone: 8603348081  
 Sub Town: Not reported  
 Worksite: STORAGE TANK #3  
 Occupied: 0  
 Contractor: AC000701  
 Contract Type: Off  
 Hours: Week days: 0700-1600 Week end: 0700-1600  
 Project Type: Renv  
 Abatement Process: Glv,Encl,Encp  
 Location: Not reported  
 Decon Process: THREE CHAMBER DECONTAMINATION UNIT ADJACENT TO THE WORK AREA  
 Disposal Methods: ACM WILL BE THOROUGHLY WETTED AND PLACED INTO DOUBLE 6-MIL POLY BAGS  
 Facility Usage: FUEL OIL STORAGE TANK  
 Waiver Given: Not reported  
 DEP Waiver Number: 0901180  
 DLWD Waiver Number: 0901802  
 Small Owner Occ: 5  
 Owner Name: SOMERSET POWER LLC  
 Owner Address: 1606 RIVERSIDE AVE  
 Owner City: SOMERSET  
 Owner State: MA  
 On Site Manager Name: TIM SISK  
 On Site Manager Phone: 860 334 8081  
 Ins Comp: NATIONAL UNION FIRE INSURANCE  
 Policy Number: WC6506877  
 EXP Date: 2/28/2011  
 Facility Size: Not reported  
 Transporter Name: MORAN ENVIRONMENTAL RECOVERY  
 Transporter Address: 75 YORK AVE  
 Transporter City: RANDOLPH  
 Transporter State: Not reported  
 Final Site: 47  
 Certified Name: JOHN TRAVIS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Cert Sign Date: 10/15/2010  
 Certified Company: 10/15/2010  
 Certified Phone: 7818151109  
 Entered\_by: Not reported

## HW GEN:

Name: FORMER SOMERSET POWER LLC  
 Address: 1606 RIVERSIDE AVE  
 City,State,Zip: SOMERSET, MA 02726  
 EPA Id: MAR000014308  
 RCRA Generator Status: Not reported  
 State Generator Status: SQG-MA

## NJ MANIFEST:

EPA Id: MAR000014308  
 Mail Address: 1606 RIVERSIDE AVE  
 Mail City/State/Zip: SOMERSET, MA 02726-0000  
 Facility Phone: Not reported  
 Emergency Phone: Not reported  
 Contact: JEFF ARAUJO  
 Comments: Not reported  
 SIC Code: Not reported  
 County: MA005  
 Municipal: Not reported  
 Previous EPA Id: Not reported  
 Gen Flag: Not reported  
 Trans Flag: Not reported  
 TSDF Flag: Not reported  
 Name Change: Not reported  
 Date Change: Not reported

## Manifest:

Manifest Number: 000380034VES  
 EPA ID: MAR000014308  
 Date Shipped: 04/01/2010  
 TSDF EPA ID: NJD980536593  
 Transporter EPA ID: NJD080631369  
 Transporter 2 EPA ID: NJD054126164  
 Transporter 3 EPA ID: Not reported  
 Transporter 4 EPA ID: Not reported  
 Transporter 5 EPA ID: Not reported  
 Transporter 6 EPA ID: Not reported  
 Transporter 7 EPA ID: Not reported  
 Transporter 8 EPA ID: Not reported  
 Transporter 9 EPA ID: Not reported  
 Transporter 10 EPA ID: Not reported  
 Date Trans1 Transported Waste: 04/01/2010  
 Date Trans2 Transported Waste: 04/09/2010  
 Date Trans3 Transported Waste: Not reported  
 Date Trans4 Transported Waste: Not reported  
 Date Trans5 Transported Waste: Not reported  
 Date Trans6 Transported Waste: Not reported  
 Date Trans7 Transported Waste: Not reported  
 Date Trans8 Transported Waste: Not reported  
 Date Trans9 Transported Waste: Not reported  
 Date Trans10 Transported Waste: Not reported  
 Date TSDF Received Waste: 04/09/2010

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

TSDF EPA Facility Name: Not reported  
 QTY Units: Not reported  
 Transporter SEQ ID: Not reported  
 Transporter-1 Date: Not reported  
 Waste SEQ ID: Not reported  
 Waste Type Code 2: Not reported  
 Waste Type Code 3: Not reported  
 Waste Type Code 4: Not reported  
 Waste Type Code 5: Not reported  
 Waste Type Code 6: Not reported  
 Date Accepted: Not reported  
 Manifest Discrepancy Type: Not reported  
 Data Entry Number: Not reported  
 Was Load Rejected: SOMERSET, MA 02726-0000  
 Reason Load Was Rejected: Not reported

Waste:

Manifest Year: Not reported  
 Waste Code: U159  
 Hand Code: H141  
 Quantity: 60 P

Manifest Year: Not reported  
 Waste Code: D001  
 Hand Code: H141  
 Quantity: 60 P

Manifest Year: Not reported  
 Waste Code: D001  
 Hand Code: H141  
 Quantity: 20 P

Manifest Number: 000380703VES  
 EPA ID: MAR000014308  
 Date Shipped: 02/22/2010  
 TSDF EPA ID: NJD980536593  
 Transporter EPA ID: NJD080631369  
 Transporter 2 EPA ID: NJD054126164  
 Transporter 3 EPA ID: Not reported  
 Transporter 4 EPA ID: Not reported  
 Transporter 5 EPA ID: Not reported  
 Transporter 6 EPA ID: Not reported  
 Transporter 7 EPA ID: Not reported  
 Transporter 8 EPA ID: Not reported  
 Transporter 9 EPA ID: Not reported  
 Transporter 10 EPA ID: Not reported  
 Date Trans1 Transported Waste: 02/22/2010  
 Date Trans2 Transported Waste: 02/24/2010  
 Date Trans3 Transported Waste: Not reported  
 Date Trans4 Transported Waste: Not reported  
 Date Trans5 Transported Waste: Not reported  
 Date Trans6 Transported Waste: Not reported  
 Date Trans7 Transported Waste: Not reported  
 Date Trans8 Transported Waste: Not reported  
 Date Trans9 Transported Waste: Not reported  
 Date Trans10 Transported Waste: Not reported  
 Date TSDF Received Waste: 02/28/2010

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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## FORMER SOMERSET POWER LLC (Continued)

1001493262

TSDf EPA Facility Name:	Not reported
QTY Units:	Not reported
Transporter SEQ ID:	Not reported
Transporter-1 Date:	Not reported
Waste SEQ ID:	Not reported
Waste Type Code 2:	Not reported
Waste Type Code 3:	Not reported
Waste Type Code 4:	Not reported
Waste Type Code 5:	Not reported
Waste Type Code 6:	Not reported
Date Accepted:	Not reported
Manifest Discrepancy Type:	Not reported
Data Entry Number:	Not reported
Was Load Rejected:	SOMERSET , MA 02726-0000
Reason Load Was Rejected:	Not reported

## Waste:

Manifest Year:	Not reported
Waste Code:	D003
Hand Code:	H141
Quantity:	170 P

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	60 P

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	170 P

Manifest Year:	Not reported
Waste Code:	U123
Hand Code:	H141
Quantity:	10 P

Manifest Year:	Not reported
Waste Code:	D002
Hand Code:	H141
Quantity:	5 P

Manifest Year:	Not reported
Waste Code:	P012
Hand Code:	H141
Quantity:	5 P

Manifest Year:	Not reported
Waste Code:	P120
Hand Code:	H141
Quantity:	5 P

Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	25 P

Manifest Year:	Not reported
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Database(s) EDR ID Number  
EPA ID Number

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Waste Code:	U133
Hand Code:	H141
Quantity:	5 P
Manifest Year:	Not reported
Waste Code:	U123
Hand Code:	H141
Quantity:	5 P
Manifest Year:	Not reported
Waste Code:	D004
Hand Code:	H141
Quantity:	40 P
Manifest Year:	Not reported
Waste Code:	D009
Hand Code:	H141
Quantity:	150 P
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	5 P
Manifest Year:	Not reported
Waste Code:	D002
Hand Code:	H141
Quantity:	60 P
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	10 P
Manifest Year:	Not reported
Waste Code:	D001
Hand Code:	H141
Quantity:	45 P
Manifest Year:	Not reported
Waste Code:	D009
Hand Code:	H141
Quantity:	5 P
Manifest Number:	000380708VES
EPA ID:	MAR000014308
Date Shipped:	02/22/2010
TSDf EPA ID:	NJD980536593
Transporter EPA ID:	NJD080631369
Transporter 2 EPA ID:	NJD054126164
Transporter 3 EPA ID:	Not reported
Transporter 4 EPA ID:	Not reported
Transporter 5 EPA ID:	Not reported
Transporter 6 EPA ID:	Not reported
Transporter 7 EPA ID:	Not reported
Transporter 8 EPA ID:	Not reported



Map ID	Direction	Distance	Elevation	Site	MAP FINDINGS	Database(s)	EDR ID Number	EPA ID Number
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**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Transporter 9 EPA ID: Not reported  
 Transporter 10 EPA ID: Not reported  
 Date Trans1 Transported Waste: 02/22/2010  
 Date Trans2 Transported Waste: 02/24/2010  
 Date Trans3 Transported Waste: Not reported  
 Date Trans4 Transported Waste: Not reported  
 Date Trans5 Transported Waste: Not reported  
 Date Trans6 Transported Waste: Not reported  
 Date Trans7 Transported Waste: Not reported  
 Date Trans8 Transported Waste: Not reported  
 Date Trans9 Transported Waste: Not reported  
 Date Trans10 Transported Waste: Not reported  
 Date TSDF Received Waste: 02/28/2010  
 TSDF EPA Facility Name: Not reported  
 QTY Units: Not reported  
 Transporter SEQ ID: Not reported  
 Transporter-1 Date: Not reported  
 Waste SEQ ID: Not reported  
 Waste Type Code 2: Not reported  
 Waste Type Code 3: Not reported  
 Waste Type Code 4: Not reported  
 Waste Type Code 5: Not reported  
 Waste Type Code 6: Not reported  
 Date Accepted: Not reported  
 Manifest Discrepancy Type: Not reported  
 Data Entry Number: Not reported  
 Was Load Rejected: SOMERSET, MA 02726-0000  
 Reason Load Was Rejected: Not reported

**Waste:**

Manifest Year: Not reported  
 Waste Code: D002  
 Hand Code: H141  
 Quantity: 5 P

Manifest Year: Not reported  
 Waste Code: D001  
 Hand Code: H141  
 Quantity: 5 P

Manifest Number: 000380707VES  
 EPA ID: MAR000014308  
 Date Shipped: 02/22/2010  
 TSDF EPA ID: NJD980536593  
 Transporter EPA ID: NJD080631369  
 Transporter 2 EPA ID: NJD080631369  
 Transporter 3 EPA ID: Not reported  
 Transporter 4 EPA ID: Not reported  
 Transporter 5 EPA ID: Not reported  
 Transporter 6 EPA ID: Not reported  
 Transporter 7 EPA ID: Not reported  
 Transporter 8 EPA ID: Not reported  
 Transporter 9 EPA ID: Not reported  
 Transporter 10 EPA ID: Not reported  
 Date Trans1 Transported Waste: 02/22/2010  
 Date Trans2 Transported Waste: 03/05/2010  
 Date Trans3 Transported Waste: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Date Trans4 Transported Waste: Not reported  
 Date Trans5 Transported Waste: Not reported  
 Date Trans6 Transported Waste: Not reported  
 Date Trans7 Transported Waste: Not reported  
 Date Trans8 Transported Waste: Not reported  
 Date Trans9 Transported Waste: Not reported  
 Date Trans10 Transported Waste: Not reported  
 Date TSDf Received Waste: 03/05/2010  
 TSDf EPA Facility Name: Not reported  
 QTY Units: Not reported  
 Transporter SEQ ID: Not reported  
 Transporter-1 Date: Not reported  
 Waste SEQ ID: Not reported  
 Waste Type Code 2: Not reported  
 Waste Type Code 3: Not reported  
 Waste Type Code 4: Not reported  
 Waste Type Code 5: Not reported  
 Waste Type Code 6: Not reported  
 Date Accepted: Not reported  
 Manifest Discrepancy Type: Not reported  
 Data Entry Number: Not reported  
 Was Load Rejected: SOMERSET, MA 02726-0000  
 Reason Load Was Rejected: Not reported

**Waste:**

Manifest Year: Not reported  
 Waste Code: D003  
 Hand Code: H141  
 Quantity: 5 P

Manifest Number: 000358322VES  
 EPA ID: MAR000014308  
 Date Shipped: 11/19/2009  
 TSDf EPA ID: NJD002454544  
 Transporter EPA ID: NJD080631369  
 Transporter 2 EPA ID: NJD054126164  
 Transporter 3 EPA ID: Not reported  
 Transporter 4 EPA ID: Not reported  
 Transporter 5 EPA ID: Not reported  
 Transporter 6 EPA ID: Not reported  
 Transporter 7 EPA ID: Not reported  
 Transporter 8 EPA ID: Not reported  
 Transporter 9 EPA ID: Not reported  
 Transporter 10 EPA ID: Not reported  
 Date Trans1 Transported Waste: 11/19/2009  
 Date Trans2 Transported Waste: 11/19/2009  
 Date Trans3 Transported Waste: Not reported  
 Date Trans4 Transported Waste: Not reported  
 Date Trans5 Transported Waste: Not reported  
 Date Trans6 Transported Waste: Not reported  
 Date Trans7 Transported Waste: Not reported  
 Date Trans8 Transported Waste: Not reported  
 Date Trans9 Transported Waste: Not reported  
 Date Trans10 Transported Waste: Not reported  
 Date TSDf Received Waste: 11/20/2009  
 TSDf EPA Facility Name: Not reported  
 QTY Units: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Transporter SEQ ID: Not reported  
 Transporter-1 Date: Not reported  
 Waste SEQ ID: Not reported  
 Waste Type Code 2: Not reported  
 Waste Type Code 3: Not reported  
 Waste Type Code 4: Not reported  
 Waste Type Code 5: Not reported  
 Waste Type Code 6: Not reported  
 Date Accepted: Not reported  
 Manifest Discrepancy Type: Not reported  
 Data Entry Number: Not reported  
 Was Load Rejected: SOMERSET, MA 02726-0000  
 Reason Load Was Rejected: Not reported

Waste:  
 Manifest Year: Not reported  
 Waste Code: D001  
 Hand Code: H061  
 Quantity: 400 P

**RI MANIFEST:**

EPA Id: MAR000014308  
 GEN Cert Date: 2/2/2010  
 Manifest Document Number: 006574821JJK  
 Waste Description: HEAVY METALS FOR STABILIZATION  
 TSDf Id: RID040098352  
 TSDf Name: Northland Environmental  
 Qty: 2000  
 WT/Vol Units: P  
 TSDf Date: 2/2/2010  
 Transporter 2 Id: Not reported  
 Item Number: 28769  
 Transporter 2 Name: Not reported  
 Transporter Name 2: MORAN ENVIRONMENTAL RECOVERY  
 Transporter EPAID: FLD092718576  
 Transporter Receipt Date: 2/2/2010  
 Number Of Containers: Not reported  
 Container Type: Not reported  
 Waste Code1: MA99R004  
 Waste Code2: Not reported  
 Waste Code3: Not reported  
 Waste Code4: Not reported  
 Waste Code5: Not reported  
 Waste Code6: Not reported  
 Fee Exempt Code: Not reported  
 Comment: Not reported  
 Transporter Name 2: Not reported  
 Company Permit Number: Not reported  
 Year: Not reported  
 Quarter: Not reported  
 Transporter Contact Name: Not reported  
 Transporter Contact Email: Not reported  
 Filing Date: Not reported  
 Total Fee: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Billing Name: Not reported  
 Paid Date: Not reported  
 Paid Time: Not reported  
 Facility Receipt Date: Not reported  
 Fee: Not reported  
 Manifest Created Date: Not reported  
 Manifest Updated Date: Not reported

**RI MANIFEST:**

Transporter Receipt Date: 2/2/2010  
 Number Of Containers: Not reported  
 Container Type: Not reported  
 Waste Code1: MA99R004  
 Waste Code2: Not reported  
 Waste Code3: Not reported  
 Waste Code4: Not reported  
 Waste Code5: Not reported  
 Waste Code6: Not reported  
 Comment: Not reported  
 Fee Exempt Code: Not reported  
 TSDf Name: Northland Environmental  
 TSDf Id: RID040098352  
 Transporter Name 2: Not reported  
 Company Permit Number: Not reported  
 Year: Not reported  
 EPA ID: MAR000014308  
 Manifest Docket Number: 006574821JJK  
 Quarter: Not reported  
 Waste Description: HEAVY METALS FOR STABILIZATION  
 Transporter Contact Name: Not reported  
 Quantity: 2000  
 Transporter Contact Email: Not reported  
 WT/Vol Units: P  
 Filing Date: Not reported  
 Total Fee: Not reported  
 Item Number: 28769  
 Transporter Name: MORAN ENVIRONMENTAL RECOVERY  
 Billing Name: Not reported  
 Transporter EPA ID: FLD092718576  
 Date Paid: Not reported  
 Time Paid: Not reported  
 GEN Cert Date: 2/2/2010  
 Facility Receipt Date: Not reported  
 Fee: Not reported  
 Transporter 2 Receipt Date: Not reported  
 Manifest Created Date: Not reported  
 TSDf Receipt Date: 2/2/2010  
 Transporter 2 ID: Not reported  
 Manifest Updated Date: Not reported

Transporter Receipt Date: 5/15/2009  
 Number Of Containers: 2  
 Container Type: DM  
 Waste Code1: D001  
 Waste Code2: Not reported  
 Waste Code3: Not reported  
 Waste Code4: Not reported  
 Waste Code5: Not reported

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDf Name:	NORTHLAND ENVIRONMENTAL LLC
TSDf Id:	Not reported
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000014308
Manifest Docket Number:	002982240JJK
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUIDS N.O.S. 3,UN1993,PGII
Transporter Contact Name:	Not reported
Quantity:	110
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	001
Transporter Name:	MORAN ENVIRONMENTAL RECOVERY
Billing Name:	Not reported
Transporter EPA ID:	MAR000504928
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	5/15/2009
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDf Receipt Date:	5/15/2009
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	5/15/2009
Number Of Containers:	10
Container Type:	DM
Waste Code1:	MA99
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDf Name:	NORTHLAND ENVIRONMENTAL LLC
TSDf Id:	Not reported
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000014308
Manifest Docket Number:	002982240JJK
Quarter:	Not reported
Waste Description:	NONDOT NONRCRA MATERIAL
Transporter Contact Name:	Not reported
Quantity:	550
Transporter Contact Email:	Not reported
WT/Vol Units:	G

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)**

EDR ID Number  
 EPA ID Number

Database(s)

**1001493262**

Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	002
Transporter Name:	MORAN ENVIRONMENTAL RECOVERY
Billing Name:	Not reported
Transporter EPA ID:	MAR000504928
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	5/15/2009
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDf Receipt Date:	5/15/2009
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	5/15/2009
Number Of Containers:	1
Container Type:	DM
Waste Code1:	MA99
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDf Name:	NORTHLAND ENVIRONMENTAL LLC
TSDf Id:	Not reported
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000014308
Manifest Docket Number:	002982240JJK
Quarter:	Not reported
Waste Description:	NONDOT NONRCRA MATERIAL (CITRIC ACID)
Transporter Contact Name:	Not reported
Quantity:	200
Transporter Contact Email:	Not reported
WT/Vol Units:	P
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	003
Transporter Name:	MORAN ENVIRONMENTAL RECOVERY
Billing Name:	Not reported
Transporter EPA ID:	MAR000504928
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	5/15/2009
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDf Receipt Date:	5/15/2009
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

Transporter Receipt Date:	5/15/2009
Number Of Containers:	2
Container Type:	DM
Waste Code1:	D001
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDf Name:	NORTHLAND ENVIRONMENTAL LLC
TSDf Id:	Not reported
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000014308
Manifest Docket Number:	002982240JJK
Quarter:	Not reported
Waste Description:	RQ WASTE FLAMMABLE LIQUIDS N.O.S. 3,UN1993,PGII
Transporter Contact Name:	Not reported
Quantity:	110
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	001
Transporter Name:	MORAN ENVIRONMENTAL RECOVERY
Billing Name:	Not reported
Transporter EPA ID:	MAR000504928
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	5/15/2009
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDf Receipt Date:	5/15/2009
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	5/15/2009
Number Of Containers:	1
Container Type:	DM
Waste Code1:	MA99
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDf Name:	NORTHLAND ENVIRONMENTAL LLC
TSDf Id:	Not reported
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

EPA ID:	MAR000014308
Manifest Docket Number:	002982240JJK
Quarter:	Not reported
Waste Description:	NONDOT NONRCRA MATERIAL (CITRIC ACID)
Transporter Contact Name:	Not reported
Quantity:	200
Transporter Contact Email:	Not reported
WT/Vol Units:	P
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	003
Transporter Name:	MORAN ENVIRONMENTAL RECOVERY
Billing Name:	Not reported
Transporter EPA ID:	MAR000504928
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	5/15/2009
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDf Receipt Date:	5/15/2009
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	5/15/2009
Number Of Containers:	10
Container Type:	DM
Waste Code1:	MA99
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDf Name:	NORTHLAND ENVIRONMENTAL LLC
TSDf Id:	Not reported
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000014308
Manifest Docket Number:	002982240JJK
Quarter:	Not reported
Waste Description:	NONDOT NONRCRA MATERIAL
Transporter Contact Name:	Not reported
Quantity:	550
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	002
Transporter Name:	MORAN ENVIRONMENTAL RECOVERY
Billing Name:	Not reported
Transporter EPA ID:	MAR000504928
Date Paid:	Not reported
Time Paid:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

GEN Cert Date:	5/15/2009
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDf Receipt Date:	5/15/2009
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	2/21/2007
Number Of Containers:	19
Container Type:	DM
Waste Code1:	MA01
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDf Name:	CYN OIL CORP
TSDf Id:	MAD082303777
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000014308
Manifest Docket Number:	000660441JJK
Quarter:	Not reported
Waste Description:	STATE REGULATED WASTE OILY SOLIDS NON DOT
Transporter Contact Name:	Not reported
Quantity:	2000
Transporter Contact Email:	Not reported
WT/Vol Units:	P
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	1
Transporter Name:	CYN OIL CORPORATION
Billing Name:	Not reported
Transporter EPA ID:	MAD082303777
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	3/8/2007
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDf Receipt Date:	Not reported
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	11/6/2007
Number Of Containers:	Not reported
Container Type:	Not reported
Waste Code1:	D001D035
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
 EPA ID Number

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDf Name:	Northland Environmental Inc.
TSDf Id:	rid040098352
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000014308
Manifest Docket Number:	001707263JJK
Quarter:	Not reported
Waste Description:	LABPACK PROFILE
Transporter Contact Name:	Not reported
Quantity:	165
Transporter Contact Email:	Not reported
WT/Vol Units:	G
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	75370652
Transporter Name:	FLEET ENVIRONMENTAL
Billing Name:	Not reported
Transporter EPA ID:	MAR000504928
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	11/6/2007
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDf Receipt Date:	11/6/2007
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	5/22/2007
Number Of Containers:	Not reported
Container Type:	MA01
Waste Code1:	Not reported
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDf Name:	Northland Environmental Inc.
TSDf Id:	rid040098352
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000014308
Manifest Docket Number:	001707059JJK
Quarter:	Not reported
Waste Description:	OILY SOLIDS
Transporter Contact Name:	Not reported
Quantity:	300
Transporter Contact Email:	Not reported

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**FORMER SOMERSET POWER LLC (Continued)****1001493262**

WT/Vol Units:	P
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	48913508
Transporter Name:	FLEET ENVIRONMENTAL
Billing Name:	Not reported
Transporter EPA ID:	MAR000504928
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	5/22/2007
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	5/22/2007
Transporter 2 ID:	Not reported
Manifest Updated Date:	Not reported
Transporter Receipt Date:	5/22/2007
Number Of Containers:	Not reported
Container Type:	MA01
Waste Code1:	Not reported
Waste Code2:	Not reported
Waste Code3:	Not reported
Waste Code4:	Not reported
Waste Code5:	Not reported
Waste Code6:	Not reported
Comment:	Not reported
Fee Exempt Code:	Not reported
TSDF Name:	Northland Environmental Inc.
TSDF Id:	rid040098352
Transporter Name 2:	Not reported
Company Permit Number:	Not reported
Year:	Not reported
EPA ID:	MAR000014308
Manifest Docket Number:	001707059JJK
Quarter:	Not reported
Waste Description:	OILY SOLIDS
Transporter Contact Name:	Not reported
Quantity:	300
Transporter Contact Email:	Not reported
WT/Vol Units:	P
Filing Date:	Not reported
Total Fee:	Not reported
Item Number:	48913508
Transporter Name:	FLEET ENVIRONMENTAL
Billing Name:	Not reported
Transporter EPA ID:	MAR000504928
Date Paid:	Not reported
Time Paid:	Not reported
GEN Cert Date:	5/22/2007
Facility Receipt Date:	Not reported
Fee:	Not reported
Transporter 2 Receipt Date:	Not reported
Manifest Created Date:	Not reported
TSDF Receipt Date:	5/22/2007
Transporter 2 ID:	Not reported

MAP FINDINGS

Map ID			
Direction			EDR ID Number
Distance			EPA ID Number
Elevation	Site	Database(s)	

**FORMER SOMERSET POWER LLC (Continued)**

**1001493262**

Manifest Updated Date: Not reported

[Click this hyperlink](#) while viewing on your computer to access 39 additional RI\_MANIFEST: record(s) in the EDR Site Report.

<b>28</b>	<b>SHAWOMET ST</b>	<b>MA SHWS</b>	<b>S105736283</b>
<b>ENE</b>	<b>113 SHAWOMET ST</b>	<b>MA LUST</b>	<b>N/A</b>
<b>1/2-1</b>	<b>SOMERSET, MA</b>	<b>MA RELEASE</b>	
<b>0.793 mi.</b>			
<b>4185 ft.</b>			

**Relative:** SHWS:

**Lower** Facility ID: 4-0017443

**Actual:** Source Type: PIPE

**87 ft.** Release Town: SOMERSET

Notification Date: 10/23/2002

Category: TWO HR

Associated ID: Not reported

Current Status: RAO

Status Date: 12/09/2002

Phase: Not reported

Response Action Outcome: A2

Oil Or Haz Material: Oil

**LUST:**

Facility:

**Current Status:** **Not reported**

Release Tracking Number/Current Status: 4-0017443 / RAO

Status Date: 12/09/2002

Source Type: UST

Release Town: SOMERSET

Notification Date: 10/23/2002

Category: TWO HR

Associated ID: Not reported

Phase: Not reported

Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.

Oil Or Haz Material: Oil

Location Type: RESIDENTIAL

Source: UST

Source: PIPE

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical: #2 FUEL OIL

Quantity: 1520 gallons

Actions:

Action Type: A Notice sent to a Potentially Responsible Party (PRP)

Action Status: FLDISS

Action Date: 10/23/2002

Response Action Outcome: A permanent solution has been achieved. Contamination has not been

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**SHAWOMET ST (Continued)****S105736283**

reduced to background.

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 10/23/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 10/23/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FLDD1A  
Action Date: 10/23/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
Action Status: FOLOFF  
Action Date: 10/24/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 10/28/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 12/18/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 12/6/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 12/9/2002  
Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Release:  
Release Tracking Number/Current Status: 4-0017443 / RAO  
Primary ID: Not reported  
Official City: SOMERSET  
Notification: 10/23/2002  
Category: TWO HR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHAWOMET ST (Continued)**

**S105736283**

Status Date: 12/09/2002  
 Phase: Not reported  
 Response Action Outcome: A2 - A permanent solution has been achieved. Contamination has not been reduced to background.  
 Oil / Haz Material Type: Oil

Click here to access the MA DEP site for this facility:

Actions:

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: FLDISS  
 Action Date: 10/23/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 10/23/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 10/23/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
 Action Status: FLDD1A  
 Action Date: 10/23/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RLFA  
 Action Status: FOLOFF  
 Action Date: 10/24/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
 Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
 Action Date: 10/28/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: Response Action Outcome - RAO  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 12/18/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Action Type: RNF  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 12/6/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**SHAWOMET ST (Continued)****S105736283**

Action Type: Response Action Outcome - RAO  
 Action Status: RAO Statement Received  
 Action Date: 12/9/2002  
 Response Action Outcome: A permanent solution has been achieved. Contamination has not been reduced to background.

Chemicals:  
 Chemical: #2 FUEL OIL  
 Quantity: 1520 gallons  
 Location Type: RESIDENTIAL  
 Source: UST  
 Source: PIPE

<b>29</b> <b>ENE</b> <b>1/2-1</b> <b>0.884 mi.</b> <b>4666 ft.</b>	<b>COMMUNITY CLEANSERS</b> <b>875 COUNTY STREET</b> <b>SOMERSET, MA 02726</b>	<b>MA SHWS</b> <b>MA RELEASE</b>	<b>S122833078</b> <b>N/A</b>
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**Relative:**  
**Lower**

**Actual:**  
**61 ft.**

SHWS:  
 Facility ID: 4-0027260  
 Source Type: LINE  
 Release Town: SOMERSET  
 Notification Date: 05/25/2018  
 Category: 72 HR  
 Associated ID: Not reported  
 Current Status: UNCLSS  
 Status Date: 05/25/2018  
 Phase: Not reported  
 Response Action Outcome: Not reported  
 Oil Or Haz Material: Not reported

## Release:

Release Tracking Number/Current Status: 4-0027260 / UNCLSS  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 05/25/2018  
 Category: 72 HR  
 Status Date: 05/25/2018  
 Phase: Not reported  
 Response Action Outcome: -  
 Oil / Haz Material Type: Not reported

Click here to access the MA DEP site for this facility:

## Actions:

Action Type: Immediate Response Action  
 Action Status: Oral Approval of Plan or Action  
 Action Date: 5/25/2018  
 Response Action Outcome: Not reported

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 5/25/2018  
 Response Action Outcome: Not reported

MAP FINDINGS

Map ID			
Direction			EDR ID Number
Distance			EPA ID Number
Elevation	Site	Database(s)	

**COMMUNITY CLEANSERS (Continued)**

**S122833078**

Chemicals:  
 Chemical: Not reported  
 Quantity: Not reported  
 Location Type: COMMERCIAL  
 Source: LINE

<b>30</b>	<b>BRIGHTMAN ST BRIDGE</b>	<b>MA SHWS</b>	<b>S102404153</b>
<b>SSE</b>	<b>BRIGHTMAN ST</b>	<b>MA RELEASE</b>	<b>N/A</b>
<b>1/2-1</b>	<b>FALL RIVER, MA</b>		
<b>0.929 mi.</b>			
<b>4906 ft.</b>			

**Relative:** SHWS:  
**Lower** Facility ID: 4-0012673  
**Actual:** Source Type: Not reported  
**4 ft.** Release Town: FALL RIVER  
 Notification Date: 11/15/1996  
 Category: 120 DY  
 Associated ID: Not reported  
 Current Status: RAO  
 Status Date: 11/15/1996  
 Phase: Not reported  
 Response Action Outcome: B1  
 Oil Or Haz Material: Oil and Hazardous Material

Release:  
 Release Tracking Number/Current Status: 4-0012673 / RAO  
 Primary ID: Not reported  
 Official City: FALL RIVER  
 Notification: 11/15/1996  
 Category: 120 DY  
 Status Date: 11/15/1996  
 Phase: Not reported  
 Response Action Outcome: B1 - Remedial actions have not been conducted because a level of No Significant Risk exists.  
 Oil / Haz Material Type: Oil and Hazardous Material

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type:	Response Action Outcome - RAO
Action Status:	RAO Statement Received
Action Date:	11/15/1996
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	RNF
Action Status:	Reportable Release under MGL 21E
Action Date:	11/15/1996
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	11/15/1996
Response Action Outcome:	Remedial actions have not been conducted because a level of No Significant Risk exists.



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**BRIGHTMAN ST BRIDGE (Continued)****S102404153**

Significant Risk exists.

Action Type: Response Action Outcome - RAO  
 Action Status: Level I - Technical Screen Audit  
 Action Date: 4/15/2005  
 Response Action Outcome: Remedial actions have not been conducted because a level of No Significant Risk exists.

Chemicals:  
 Chemical: VOCS  
 Quantity: 12000 parts per billion  
 Chemical: METALS  
 Quantity: 49035 parts per billion  
 Chemical: TPH  
 Quantity: 1700 parts per million

<b>31</b> <b>South</b> <b>1/2-1</b> <b>0.988 mi.</b> <b>5216 ft.</b>	<b>NEW ENGLAND POWER/DBA NATIONAL GRID</b> <b>375 RIVERSIDE AVE</b> <b>SOMERSET, MA 02725</b>	<b>MA SHWS</b> <b>MA RELEASE</b>	<b>S121394477</b> <b>N/A</b>
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**Relative:** SHWS:  
**Lower** Facility ID: 4-0026909  
 Source Type: UNKNOWN  
**Actual:** Release Town: SOMERSET  
**10 ft.** Notification Date: 11/06/2017  
 Category: 120 DY  
 Associated ID: Not reported  
 Current Status: URAM  
 Status Date: 10/20/2017  
 Phase: Not reported  
 Response Action Outcome: Not reported  
 Oil Or Haz Material: Not reported

Release:  
 Release Tracking Number/Current Status: 4-0026909 / URAM  
 Primary ID: Not reported  
 Official City: SOMERSET  
 Notification: 11/06/2017  
 Category: 120 DY  
 Status Date: 10/20/2017  
 Phase: Not reported  
 Response Action Outcome: -  
 Oil / Haz Material Type: Not reported

[Click here to access the MA DEP site for this facility:](#)

Actions:  
 Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 10/13/2017  
 Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure  
 Action Status: Notice of Intent to Conduct a URAM

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEW ENGLAND POWER/DBA NATIONAL GRID (Continued)**

**S121394477**

Action Date: 10/13/2017  
Response Action Outcome: Not reported

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 10/17/2017  
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure  
Action Status: Notification of URAM Received  
Action Date: 10/20/2017  
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 10/27/2017  
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 11/6/2017  
Response Action Outcome: Not reported

Action Type: BOL  
Action Status: SHPFAC  
Action Date: 2/12/2018  
Response Action Outcome: Not reported

Action Type: Utility-related Abatement Measure  
Action Status: Completion Statement Received  
Action Date: 2/12/2018  
Response Action Outcome: Not reported

Chemicals:  
Chemical: Not reported  
Quantity: Not reported  
Location Type: PRIVPROP  
Location Type: UTILEASE  
Source: UNKNOWN

**32**  
**SSE**  
**1/2-1**  
**0.991 mi.**  
**5234 ft.**

**TAUNTON RIVER**  
**BRIGHTMAN STREET BRG**  
**FALL RIVER, MA**

**MA SHWS** **S104774386**  
**MA RELEASE** **N/A**

**Relative:**  
**Lower**  
**Actual:**  
**13 ft.**

SHWS:  
Facility ID: 4-0015656  
Source Type: PIPE  
Release Town: FALL RIVER  
Notification Date: 08/09/2000  
Category: TWO HR  
Associated ID: Not reported  
Current Status: ADQREG  
Status Date: 08/09/2000  
Phase: Not reported  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**TAUNTON RIVER (Continued)**

**S104774386**

Oil Or Haz Material: Oil

Release:

Release Tracking Number/Current Status: 4-0015656 / ADQREG  
 Primary ID: Not reported  
 Official City: FALL RIVER  
 Notification: 08/09/2000  
 Category: TWO HR  
 Status Date: 08/09/2000  
 Phase: Not reported  
 Response Action Outcome: -  
 Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: RAO Not Required  
 Action Status: Adequately Regulated  
 Action Date: 8/9/2000  
 Response Action Outcome: Not reported

Action Type: RLFA  
 Action Status: FOLOFF  
 Action Date: 8/9/2000  
 Response Action Outcome: Not reported

Action Type: Release Disposition  
 Action Status: Reportable Release under MGL 21E  
 Action Date: 8/9/2000  
 Response Action Outcome: Not reported

Action Type: RLFA  
 Action Status: FLDD1U  
 Action Date: 8/9/2000  
 Response Action Outcome: Not reported

Chemicals:

Chemical: VEGETABLE OIL  
 Quantity: 100 gallons  
 Location Type: WATERBODY  
 Source: PIPE

**E33**  
West  
1/2-1  
0.997 mi.  
5266 ft.

**SPEEDWAY STORE #2416**  
35 G.A.R. HWY  
SWANSEA, MA  
  
Site 1 of 3 in cluster E

**MA SHWS** S121394531  
**MA LUST** N/A  
**MA RELEASE**

**Relative:**  
Lower  
**Actual:**  
12 ft.

SHWS:  
 Facility ID: 4-0027047  
 Source Type: TANK  
 Release Town: SWANSEA  
 Notification Date: 01/23/2018  
 Category: 72 HR  
 Associated ID: Not reported  
 Current Status: RAONR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPEEDWAY STORE #2416 (Continued)**

**S121394531**

Status Date: 03/23/2018  
Phase: Not reported  
Response Action Outcome: Not reported  
Oil Or Haz Material: Not reported

LUST:

Facility:

**Current Status: Not reported**  
Release Tracking Number/Current Status: 4-0027047 / RAONR  
Status Date: 03/23/2018  
Source Type: UST  
Release Town: SWANSEA  
Notification Date: 01/23/2018  
Category: 72 HR  
Associated ID: Not reported  
Phase: Not reported  
Response Action Outcome: -  
Oil Or Haz Material: Not reported

Location Type: COMMERCIAL  
Source: TANK  
Source: UST

[Click here to access the MA DEP site for this facility:](#)

Chemicals:

Chemical: Not reported  
Quantity: Not reported

Actions:

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 1/23/2018  
Response Action Outcome: Not reported

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 1/23/2018  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: TCTAN  
Action Date: 10/2/2014  
Response Action Outcome: Not reported

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.)  
Action Date: 2/26/2018  
Response Action Outcome: Not reported

Action Type: Tier Classification  
Action Status: TCEXT  
Action Date: 3/12/2018  
Response Action Outcome: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPEEDWAY STORE #2416 (Continued)**

**S121394531**

Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	3/23/2018
Response Action Outcome:	Not reported
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	3/23/2018
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	3/23/2018
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	3/23/2018
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	3/9/2016
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	4/25/2011
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	4/25/2011
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	5/17/2017
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	5/19/2011
Response Action Outcome:	Not reported

Release:

Release Tracking Number/Current Status:	4-0027047 / RAONR
Primary ID:	Not reported
Official City:	SWANSEA
Notification:	01/23/2018
Category:	72 HR
Status Date:	03/23/2018
Phase:	Not reported
Response Action Outcome:	-
Oil / Haz Material Type:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPEEDWAY STORE #2416 (Continued)**

**S121394531**

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	1/23/2018
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	1/23/2018
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCTRAN
Action Date:	10/2/2014
Response Action Outcome:	Not reported
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	2/26/2018
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	3/12/2018
Response Action Outcome:	Not reported
Action Type:	RAO Not Required
Action Status:	Linked to a Tier Classified Site
Action Date:	3/23/2018
Response Action Outcome:	Not reported
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	3/23/2018
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	3/23/2018
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	3/23/2018
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	3/9/2016
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	4/25/2011
Response Action Outcome:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPEEDWAY STORE #2416 (Continued)**

**S121394531**

Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	4/25/2011
Response Action Outcome:	Not reported
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	5/17/2017
Response Action Outcome:	Not reported
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	5/19/2011
Response Action Outcome:	Not reported
Chemicals:	
Chemical:	Not reported
Quantity:	Not reported
Location Type:	COMMERCIAL
Source:	TANK
Source:	UST

**E34**  
**West**  
**1/2-1**  
**0.997 mi.**  
**5266 ft.**

**HESS STATION**  
**35 GRAND ARMY HWY**  
**SWANSEA, MA 02777**  
  
**Site 2 of 3 in cluster E**

**MA SHWS S108476765**  
**MA RELEASE N/A**

**Relative:**  
**Lower**  
  
**Actual:**  
**12 ft.**

SHWS:

Facility ID:	4-0020351
Source Type:	LINE
Release Town:	SWANSEA
Notification Date:	02/24/2007
Category:	TWO HR
Associated ID:	Not reported
Current Status:	RAO
Status Date:	04/06/2007
Phase:	Not reported
Response Action Outcome:	A1
Oil Or Haz Material:	Oil

Release:

Release Tracking Number/Current Status:	4-0020351 / RAO
Primary ID:	Not reported
Official City:	SWANSEA
Notification:	02/24/2007
Category:	TWO HR
Status Date:	04/06/2007
Phase:	Not reported
Response Action Outcome:	A1 - A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.
Oil / Haz Material Type:	Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**HESS STATION (Continued)**

**S108476765**

Action Type: Release Disposition  
Action Status: Reportable Release under MGL 21E  
Action Date: 2/24/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Immediate Response Action  
Action Status: Oral Approval of Plan or Action  
Action Date: 2/24/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: A Notice sent to a Potentially Responsible Party (PRP)  
Action Status: A MassDEP piece of correspondence was issued (approvals, NORs, etc.  
Action Date: 3/5/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
Action Status: RAO Statement Received  
Action Date: 4/6/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RNF  
Action Status: Reportable Release under MGL 21E  
Action Date: 4/6/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: Response Action Outcome - RAO  
Action Status: Level I - Technical Screen Audit  
Action Date: 5/15/2007  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Action Type: RLFA  
Action Status: FLDRUN  
Action Date: 6/10/2008  
Response Action Outcome: A permanent solution has been achieved. Contamination has been reduced to background or a threat of release has been eliminated.

Chemicals:  
Chemical: GASOLINE  
Quantity: 10 gallons  
Location Type: COMMERCIAL  
Source: LINE



MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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<b>E35</b> West 1/2-1 0.997 mi. 5266 ft.	<b>SPEEDWAY #2416</b> 35 GAR HWY SWANSEA, MA 02777  Site 3 of 3 in cluster E	MA SHWS MA LUST MA UST MA RELEASE	U002008376 N/A
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**Relative:** SHWS:  
**Lower** Facility ID: 4-0022576  
**Actual:** Source Type: TANKDISP  
**12 ft.** Release Town: SWANSEA  
 Notification Date: 04/26/2010  
 Category: TWO HR  
 Associated ID: 4-0022576  
 Current Status: TMPS  
 Status Date: 04/25/2016  
 Phase: PHASE IV  
 Response Action Outcome: TF  
 Oil Or Haz Material: Oil

LUST:  
 Facility:  
**Current Status: Not reported**  
 Release Tracking Number/Current Status: 4-0022576 / TMPS  
 Status Date: 04/25/2016  
 Source Type: UST  
 Release Town: SWANSEA  
 Notification Date: 04/26/2010  
 Category: TWO HR  
 Associated ID: 4-0022576  
 Phase: PHASE IV  
 Response Action Outcome: TF - TF  
 Oil Or Haz Material: Oil  
  
 Location Type: COMMERCIAL  
 Location Type: PRIVPROP  
 Source: TANKDISP  
 Source: UST  
 Source: USTOTHER

[Click here to access the MA DEP site for this facility:](#)

Chemicals:  
 Chemical: GASOLINE  
 Quantity: 12 gallons

Actions:  
 Action Type: BOL  
 Action Status: Transmittal, Notice, or Notification Received  
 Action Date: 1/25/2018  
 Response Action Outcome: TF  
  
 Action Type: Response Action Outcome - RAO  
 Action Status: RMRINT  
 Action Date: 10/10/2018  
 Response Action Outcome: TF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**SPEEDWAY #2416 (Continued)**

**U002008376**

Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/10/2018
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	TCTRAN
Action Date:	10/2/2014
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	10/24/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/24/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/25/2017
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	10/25/2017
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	Status or Interim Report Received
Action Date:	10/28/2014
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	RMRINT
Action Date:	10/28/2014
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	Status or Interim Report Received
Action Date:	10/28/2015
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	RMRINT
Action Date:	10/28/2015
Response Action Outcome:	TF
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	11/16/2012
Response Action Outcome:	TF
Action Type:	BOL
Action Status:	SHPFAC

Database(s) EDR ID Number  
EPA ID Number

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**SPEEDWAY #2416 (Continued)****U002008376**

Action Date:	11/16/2012
Response Action Outcome:	TF
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	11/9/2012
Response Action Outcome:	TF
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	12/12/2017
Response Action Outcome:	TF
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	12/13/2012
Response Action Outcome:	TF
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	12/13/2012
Response Action Outcome:	TF
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	12/15/2010
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	12/29/2016
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	3/12/2018
Response Action Outcome:	TF
Action Type:	Utility-related Abatement Measure
Action Status:	NPERTN
Action Date:	3/14/2016
Response Action Outcome:	TF
Action Type:	Utility-related Abatement Measure
Action Status:	Notice of Intent to Conduct a URAM
Action Date:	3/14/2016
Response Action Outcome:	TF
Action Type:	BOL
Action Status:	SHPFAC
Action Date:	3/15/2018
Response Action Outcome:	TF
Action Type:	Utility-related Abatement Measure
Action Status:	Notification of URAM Received
Action Date:	3/21/2016
Response Action Outcome:	TF

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SPEEDWAY #2416 (Continued)**

**U002008376**

Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	3/23/2018
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	3/9/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	4/24/2018
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	4/24/2018
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	4/25/2011
Response Action Outcome:	TF
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	4/25/2011
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	4/25/2011
Response Action Outcome:	TF
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	4/25/2013
Response Action Outcome:	TF
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	4/25/2013
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	TSFRCD
Action Date:	4/25/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	4/25/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**SPEEDWAY #2416 (Continued)****U002008376**

Action Date:	4/25/2017
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	4/25/2017
Response Action Outcome:	TF
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	4/26/2010
Response Action Outcome:	TF
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	4/26/2010
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	Written Plan Received
Action Date:	4/28/2014
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	Status or Interim Report Received
Action Date:	4/28/2015
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	RMRINT
Action Date:	4/28/2015
Response Action Outcome:	TF
Action Type:	Utility-related Abatement Measure
Action Status:	Completion Statement Received
Action Date:	5/13/2016
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	5/19/2011
Response Action Outcome:	TF
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	5/20/2010
Response Action Outcome:	TF
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	6/22/2010
Response Action Outcome:	TF
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	6/22/2010
Response Action Outcome:	TF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**SPEEDWAY #2416 (Continued)**

**U002008376**

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 7/22/2010  
Response Action Outcome: TF

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 7/5/2012  
Response Action Outcome: TF

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 7/5/2012  
Response Action Outcome: TF

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 8/16/2017  
Response Action Outcome: TF

Facility:

**Current Status:** [http://www.web.edrnet.com/ordering/switchboard/redirect.aspx?s=GRR\\_MA\\_DEP&facid=4-0022576](http://www.web.edrnet.com/ordering/switchboard/redirect.aspx?s=GRR_MA_DEP&facid=4-0022576)

Release Tracking Number/Current Status: 4-0022576 / TMPS  
Status Date: 04/25/2016  
Source Type: USTOTHER  
Release Town: SWANSEA  
Notification Date: 04/26/2010  
Category: TWO HR  
Associated ID: 4-0022576  
Phase: PHASE IV  
Response Action Outcome: TF - TF  
Oil Or Haz Material: Oil

Location Type: COMMERCIAL  
Location Type: PRIVPROP  
Source: TANKDISP  
Source: UST  
Source: USTOTHER

Click here to access the MA DEP site for this facility:

Chemicals:

Chemical: GASOLINE  
Quantity: 12 gallons

Actions:

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 1/25/2018  
Response Action Outcome: TF

Action Type: Response Action Outcome - RAO  
Action Status: RMRINT

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**SPEEDWAY #2416 (Continued)****U002008376**

Action Date:	10/10/2018
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/10/2018
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	TCTRAN
Action Date:	10/2/2014
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	10/24/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/24/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/25/2017
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	10/25/2017
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	Status or Interim Report Received
Action Date:	10/28/2014
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	RMRINT
Action Date:	10/28/2014
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	Status or Interim Report Received
Action Date:	10/28/2015
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	RMRINT
Action Date:	10/28/2015
Response Action Outcome:	TF
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	11/16/2012
Response Action Outcome:	TF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**SPEEDWAY #2416 (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

**U002008376**

Action Type:	BOL
Action Status:	SHPFAC
Action Date:	11/16/2012
Response Action Outcome:	TF
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	11/9/2012
Response Action Outcome:	TF
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	12/12/2017
Response Action Outcome:	TF
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	12/13/2012
Response Action Outcome:	TF
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	12/13/2012
Response Action Outcome:	TF
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	12/15/2010
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	12/29/2016
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	3/12/2018
Response Action Outcome:	TF
Action Type:	Utility-related Abatement Measure
Action Status:	NPERTN
Action Date:	3/14/2016
Response Action Outcome:	TF
Action Type:	Utility-related Abatement Measure
Action Status:	Notice of Intent to Conduct a URAM
Action Date:	3/14/2016
Response Action Outcome:	TF
Action Type:	BOL
Action Status:	SHPFAC
Action Date:	3/15/2018
Response Action Outcome:	TF
Action Type:	Utility-related Abatement Measure
Action Status:	Notification of URAM Received



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**SPEEDWAY #2416 (Continued)****U002008376**

Action Date:	3/21/2016
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	3/23/2018
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	3/9/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	4/24/2018
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	4/24/2018
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	4/25/2011
Response Action Outcome:	TF
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	4/25/2011
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	4/25/2011
Response Action Outcome:	TF
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	4/25/2013
Response Action Outcome:	TF
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	4/25/2013
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	TSFRCD
Action Date:	4/25/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	4/25/2016
Response Action Outcome:	TF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS
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Site

Database(s)

EDR ID Number  
EPA ID Number

**SPEEDWAY #2416 (Continued)****U002008376**

Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	4/25/2017
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	4/25/2017
Response Action Outcome:	TF
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	4/26/2010
Response Action Outcome:	TF
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	4/26/2010
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	Written Plan Received
Action Date:	4/28/2014
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	Status or Interim Report Received
Action Date:	4/28/2015
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	RMRINT
Action Date:	4/28/2015
Response Action Outcome:	TF
Action Type:	Utility-related Abatement Measure
Action Status:	Completion Statement Received
Action Date:	5/13/2016
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	5/19/2011
Response Action Outcome:	TF
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	5/20/2010
Response Action Outcome:	TF
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	6/22/2010
Response Action Outcome:	TF
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**SPEEDWAY #2416 (Continued)****U002008376**

Action Date: 6/22/2010  
Response Action Outcome: TF

Action Type: Immediate Response Action  
Action Status: Level I - Technical Screen Audit  
Action Date: 7/22/2010  
Response Action Outcome: TF

Action Type: BOL  
Action Status: Transmittal, Notice, or Notification Received  
Action Date: 7/5/2012  
Response Action Outcome: TF

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 7/5/2012  
Response Action Outcome: TF

Action Type: Release Abatement Measure  
Action Status: Written Plan Received  
Action Date: 8/16/2017  
Response Action Outcome: TF

## UST:

## Facility:

Name: SPEEDWAY #2416  
Address: 35 GAR HWY  
City,State,Zip: SWANSEA, MA 02777  
Facility ID: 3804  
Owner Id: 1025368  
Owner: Speedway LLC  
Owner Address: 500 Speedway Drive  
Owner City,St,Zip: Enon, OH 45323  
Telephone: 5086780589  
Description: Retail Motor Vehicle Fuel  
Facility address 2: Not reported  
Owner address 2: Not reported  
Latitude: 41.74115  
Longitude: -71.18798  
Contact name: Glenn D'antuono  
Contact address1: 500 Speedway Drive  
Contact address2: Not reported  
Contact city: Enon  
Contact state: OH  
Contact zip: 45323  
Contact email: GDantuono@speedway.com  
Update: 2018-01-29 00:00:00  
Update by: Lea McCleave  
Fac status: CLOSED

Tank ID: 1  
**Tank Status: Tank Removed**  
Status Date: 01/23/2018  
Date Installed: 04/04/1974

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SPEEDWAY #2416 (Continued)**

**U002008376**

Capacity: 10000.00000  
 Contents: Gasoline  
 Tank Usage: Motor Vehi  
 Tank Leak Detection: Continuous In-Tank Monitoring System  
 Pipe Leak Detection: Annual Tightness Test of Single-Walled Pressurized Piping Systems  
 Latitude: Not reported  
 Longitude: Not reported  
 Tank construct: Single-walled metal tank (cathodic protection required)  
 Pipe construct: Single-walled non-corrodible material (No corrosion protection required)  
 Ptype: Pressurized piping system with mechanical automatic line leak detection  
 Number of compartment: Not reported  
 Pipe install date: 04/04/1974  
 Pipe leak install date: Not reported  
 Submersible sump: Y  
 Submersible sump install date: Not reported  
 Turbine sump: N  
 Turbine sump sensor: N  
 Intermediate sump: N  
 Intermediate sump sensor: N  
 Spill bucket installed date: Not reported  
 Spill bucket sensor: N  
 Overfill protect install: Not reported  
 Overfill protect type: Automatic shut-off valve  
 Automatic line leak detect: Not reported  
 Tank corrosion type: Field Constructed Impressed Current System  
 Leak corrosion type: Not reported

Tank ID: 2  
**Tank Status: Tank Removed**  
 Status Date: 01/24/2018  
 Date Installed: 04/04/1974  
 Capacity: 10000.00000  
 Contents: Gasoline  
 Tank Usage: Motor Vehi  
 Tank Leak Detection: Continuous In-Tank Monitoring System  
 Pipe Leak Detection: Annual Tightness Test of Single-Walled Pressurized Piping Systems  
 Latitude: Not reported  
 Longitude: Not reported  
 Tank construct: Single-walled metal tank (cathodic protection required)  
 Pipe construct: Single-walled non-corrodible material (No corrosion protection required)  
 Ptype: Pressurized piping system with mechanical automatic line leak detection  
 Number of compartment: Not reported  
 Pipe install date: 04/04/1974  
 Pipe leak install date: Not reported  
 Submersible sump: Y  
 Submersible sump install date: Not reported  
 Turbine sump: N  
 Turbine sump sensor: N  
 Intermediate sump: N  
 Intermediate sump sensor: N  
 Spill bucket installed date: Not reported  
 Spill bucket sensor: N  
 Overfill protect install: Not reported  
 Overfill protect type: Automatic shut-off valve  
 Automatic line leak detect: Not reported  
 Tank corrosion type: Field Constructed Impressed Current System

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPEEDWAY #2416 (Continued)**

**U002008376**

Leak corrosion type: Not reported

Tank ID: 3  
**Tank Status: Tank Removed**  
 Status Date: 01/24/2018  
 Date Installed: 04/04/1974  
 Capacity: 10000.00000  
 Contents: Gasoline  
 Tank Usage: Motor Vehi  
 Tank Leak Detection: Continuous In-Tank Monitoring System  
 Pipe Leak Detection: Annual Tightness Test of Single-Walled Pressurized Piping Systems  
 Latitude: Not reported  
 Longitude: Not reported  
 Tank construct: Single-walled metal tank (cathodic protection required)  
 Pipe construct: Single-walled non-corrodible material (No corrosion protection required)  
 Ptype: Pressurized piping system with mechanical automatic line leak detection  
 Number of compartment: Not reported  
 Pipe install date: 04/04/1974  
 Pipe leak install date: Not reported  
 Submersible sump: Y  
 Submersible sump install date: Not reported  
 Turbine sump: N  
 Turbine sump sensor: N  
 Intermediate sump: N  
 Intermediate sump sensor: N  
 Spill bucket installed date: Not reported  
 Spill bucket sensor: N  
 Overfill protect install: Not reported  
 Overfill protect type: Automatic shut-off valve  
 Automatic line leak detect: Not reported  
 Tank corrosion type: Field Constructed Impressed Current System  
 Leak corrosion type: Not reported

Release:

Release Tracking Number/Current Status: 4-0022576 / TMPS  
 Primary ID: 4-0022576  
 Official City: SWANSEA  
 Notification: 04/26/2010  
 Category: TWO HR  
 Status Date: 04/25/2016  
 Phase: PHASE IV  
 Response Action Outcome: TF - TF  
 Oil / Haz Material Type: Oil

[Click here to access the MA DEP site for this facility:](#)

Actions:

Action Type: BOL  
 Action Status: Transmittal, Notice, or Notification Received  
 Action Date: 1/25/2018  
 Response Action Outcome: TF

Action Type: Response Action Outcome - RAO  
 Action Status: RMRINT  
 Action Date: 10/10/2018

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

**SPEEDWAY #2416 (Continued)**

EDR ID Number  
 EPA ID Number

Database(s)

Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/10/2018
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	TCTRAN
Action Date:	10/2/2014
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	10/24/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/24/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	10/25/2017
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	10/25/2017
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	Status or Interim Report Received
Action Date:	10/28/2014
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	RMRINT
Action Date:	10/28/2014
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	Status or Interim Report Received
Action Date:	10/28/2015
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	RMRINT
Action Date:	10/28/2015
Response Action Outcome:	TF
Action Type:	Release Abatement Measure
Action Status:	Completion Statement Received
Action Date:	11/16/2012
Response Action Outcome:	TF

**U002008376**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**SPEEDWAY #2416 (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

U002008376

Action Type:	BOL
Action Status:	SHPFAC
Action Date:	11/16/2012
Response Action Outcome:	TF
Action Type:	Phase 2
Action Status:	Scope of Work Received
Action Date:	11/9/2012
Response Action Outcome:	TF
Action Type:	Release Abatement Measure
Action Status:	Status or Interim Report Received
Action Date:	12/12/2017
Response Action Outcome:	TF
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	12/13/2012
Response Action Outcome:	TF
Action Type:	Release Abatement Measure
Action Status:	Level I - Technical Screen Audit
Action Date:	12/13/2012
Response Action Outcome:	TF
Action Type:	RLFA
Action Status:	FLDRUN
Action Date:	12/15/2010
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Level I - Technical Screen Audit
Action Date:	12/29/2016
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	3/12/2018
Response Action Outcome:	TF
Action Type:	Utility-related Abatement Measure
Action Status:	NPERTN
Action Date:	3/14/2016
Response Action Outcome:	TF
Action Type:	Utility-related Abatement Measure
Action Status:	Notice of Intent to Conduct a URAM
Action Date:	3/14/2016
Response Action Outcome:	TF
Action Type:	BOL
Action Status:	SHPFAC
Action Date:	3/15/2018
Response Action Outcome:	TF
Action Type:	Utility-related Abatement Measure
Action Status:	Notification of URAM Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

**SPEEDWAY #2416 (Continued)**

EDR ID Number  
EPA ID Number

Database(s)

Action Date:	3/21/2016
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	RTN Linked to TCLASS Via IRA Completion Statement
Action Date:	3/23/2018
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	TCEXT
Action Date:	3/9/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	4/24/2018
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	4/24/2018
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	4/25/2011
Response Action Outcome:	TF
Action Type:	Phase 1
Action Status:	Completion Statement Received
Action Date:	4/25/2011
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	Tier 2 Classification
Action Date:	4/25/2011
Response Action Outcome:	TF
Action Type:	Phase 3
Action Status:	Completion Statement Received
Action Date:	4/25/2013
Response Action Outcome:	TF
Action Type:	Phase 2
Action Status:	Completion Statement Received
Action Date:	4/25/2013
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	TSFRCD
Action Date:	4/25/2016
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	4/25/2016
Response Action Outcome:	TF

**U002008376**



Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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## MAP FINDINGS

**SPEEDWAY #2416 (Continued)****U002008376**

Action Type:	Response Action Outcome - RAO
Action Status:	Inspection and Monitoring Report Received
Action Date:	4/25/2017
Response Action Outcome:	TF
Action Type:	Response Action Outcome - RAO
Action Status:	RMRINT
Action Date:	4/25/2017
Response Action Outcome:	TF
Action Type:	Release Disposition
Action Status:	Reportable Release under MGL 21E
Action Date:	4/26/2010
Response Action Outcome:	TF
Action Type:	Immediate Response Action
Action Status:	Oral Approval of Plan or Action
Action Date:	4/26/2010
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	Written Plan Received
Action Date:	4/28/2014
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	Status or Interim Report Received
Action Date:	4/28/2015
Response Action Outcome:	TF
Action Type:	Phase 4
Action Status:	RMRINT
Action Date:	4/28/2015
Response Action Outcome:	TF
Action Type:	Utility-related Abatement Measure
Action Status:	Completion Statement Received
Action Date:	5/13/2016
Response Action Outcome:	TF
Action Type:	Tier Classification
Action Status:	Legal Notice Published
Action Date:	5/19/2011
Response Action Outcome:	TF
Action Type:	A Notice sent to a Potentially Responsible Party (PRP)
Action Status:	A MassDEP piece of correspondence was issued (approvals, NORs, etc.)
Action Date:	5/20/2010
Response Action Outcome:	TF
Action Type:	Immediate Response Action
Action Status:	Completion Statement Received
Action Date:	6/22/2010
Response Action Outcome:	TF
Action Type:	RNFE
Action Status:	Transmittal, Notice, or Notification Received

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SPEEDWAY #2416 (Continued)**

**U002008376**

Action Date:	6/22/2010
Response Action Outcome:	TF
Action Type:	Immediate Response Action
Action Status:	Level I - Technical Screen Audit
Action Date:	7/22/2010
Response Action Outcome:	TF
Action Type:	BOL
Action Status:	Transmittal, Notice, or Notification Received
Action Date:	7/5/2012
Response Action Outcome:	TF
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	7/5/2012
Response Action Outcome:	TF
Action Type:	Release Abatement Measure
Action Status:	Written Plan Received
Action Date:	8/16/2017
Response Action Outcome:	TF
Chemicals:	
Chemical:	GASOLINE
Quantity:	12 gallons
Location Type:	COMMERCIAL
Location Type:	PRIVPROP
Source:	TANKDISP
Source:	UST
Source:	USTOTHER

ORPHAN SUMMARY

Count: 14 records.

City	EDR ID	Site Name	Site Address	Zip	Database(s)
FALL RIVER	S104179974	WATTUPA WATER	2929 BLOSSOM RD		MA LUST, MA RELEASE, MA ASBES`
FALL RIVER	S106030224	PG&E POWER STA	BRAYTON PT		MA SHWS, MA RELEASE
FALL RIVER	S104482722	BEHIND DANGELOS	WORDELL ST		MA SHWS, MA RELEASE
SOMERSET	S113411869	RT 195 WEST AT EXIT 4	RT 195 WEST AT EXIT 4		MA SHWS, MA RELEASE
SOMERSET	S107678348	POWER PLANT	BRAYTON POINT RD		MA SHWS, MA RELEASE
SOMERSET	S107678289	NO LOCATION AID	BRAYTON POINT STA		MA SHWS, MA LAST, MA RELEASE
SOMERSET	S107405460	@BRAYTON PT POWER	BRAYTON POINT RD		MA SHWS, MA RELEASE
SOMERSET	S110822295	BRAYTON AVE.	INT. BRAYTON AVE. - NEW HILL	02726	MA SHWS, MA RELEASE
SOMERSET	S109546276	RT 195 WEST-EXIT 4 OFF-RAMP	LEES RIVER AVE	02726	MA SHWS, MA RELEASE
SOMERSET	S117679437	SOMERSET TRANSFER STATION	OFF BRAYTON POINT RD	02726	MA SWF/LF
SOMERSET	S117679436	SOMERSET LANDFILL	OFF BRAYTON POINT RD	02726	MA SWF/LF
SWANSEA	S109330118	BORGE LANDFILL	RTE 6 GAR HYW	02777	MA SWF/LF
SWANSEA	S102088589	BLDG 19 PARKING LOT	RTE 6-COLES RIVER BRG	02777	MA SHWS, MA RELEASE
SWANSEA	S114004870	UTILITY POLE	LOCUST & CRANE STREETS		MA SHWS, MA RELEASE

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal NPL site list***

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/11/2019	Source: EPA
Date Data Arrived at EDR: 04/18/2019	Telephone: N/A
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 07/02/2019
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/11/2019	Source: EPA
Date Data Arrived at EDR: 04/18/2019	Telephone: N/A
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 07/02/2019
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

### ***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/11/2019	Source: EPA
Date Data Arrived at EDR: 04/18/2019	Telephone: N/A
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 07/02/2019
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Quarterly

### ***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/03/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/05/2019	Telephone: 703-603-8704
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 07/03/2019
Number of Days to Update: 39	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/11/2019	Source: EPA
Date Data Arrived at EDR: 04/18/2019	Telephone: 800-424-9346
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 07/02/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Quarterly

### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/11/2019	Source: EPA
Date Data Arrived at EDR: 04/18/2019	Telephone: 800-424-9346
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 07/02/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Quarterly

### ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2019	Source: EPA
Date Data Arrived at EDR: 03/27/2019	Telephone: 800-424-9346
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Quarterly

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: (888) 372-7341
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Quarterly

### ***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: (888) 372-7341
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: (888) 372-7341
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Quarterly

### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: (888) 372-7341
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Quarterly

### ***Federal institutional controls / engineering controls registries***

#### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/22/2019	Source: Department of the Navy
Date Data Arrived at EDR: 03/07/2019	Telephone: 843-820-7326
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 05/10/2019
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/26/2019
	Data Release Frequency: Varies

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/31/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/04/2019	Telephone: 703-603-0695
Date Made Active in Reports: 03/08/2019	Last EDR Contact: 05/29/2019
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: Varies

#### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/04/2019	Telephone: 703-603-0695
Date Made Active in Reports: 03/08/2019	Last EDR Contact: 05/29/2019
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/25/2019	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 03/26/2019	Telephone: 202-267-2180
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Quarterly

### ***State- and tribal - equivalent CERCLIS***

SHWS: Site Transition List

Contains information on releases of oil and hazardous materials that have been reported to DEP.

Date of Government Version: 02/28/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/09/2019	Telephone: 617-292-5990
Date Made Active in Reports: 05/09/2019	Last EDR Contact: 07/23/2019
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Quarterly

### ***State and tribal landfill and/or solid waste disposal site lists***

LF PROFILES: Landfill Profiles Listing

This spreadsheet describes landfills that have actively accepted waste or have closed under MassDEP Solid Waste Regulations first adopted in 1971 (310 CMR 16.00 and 310 CMR 19.00). The list does not include landfills that closed before 1971 (and which never had a MassDEP permit or approval), or for which agency data is incomplete.

Date of Government Version: 07/01/2015	Source: Department of Environmental Protection
Date Data Arrived at EDR: 10/27/2015	Telephone: 617-292-5868
Date Made Active in Reports: 12/14/2015	Last EDR Contact: 07/03/2019
Number of Days to Update: 48	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Varies

SWF/LF: Solid Waste Facility Database/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/01/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/05/2018	Telephone: 617-292-5989
Date Made Active in Reports: 08/14/2018	Last EDR Contact: 07/19/2019
Number of Days to Update: 40	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Annually

### ***State and tribal leaking storage tank lists***

LUST: Leaking Underground Storage Tank Listing

Sites within the Leaking Underground Storage Tank Listing that have a UST listed as its source.

Date of Government Version: 02/28/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/09/2019	Telephone: 617-292-5990
Date Made Active in Reports: 05/09/2019	Last EDR Contact: 07/23/2019
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Quarterly



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### LAST: Leaking Aboveground Storage Tank Sites

Sites within the Releases Database that have a AST listed as its source.

Date of Government Version: 02/28/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/09/2019	Telephone: 617-292-5500
Date Made Active in Reports: 05/09/2019	Last EDR Contact: 07/23/2019
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Quarterly

### INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/12/2018	Source: EPA, Region 5
Date Data Arrived at EDR: 03/07/2019	Telephone: 312-886-7439
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019	Source: EPA Region 7
Date Data Arrived at EDR: 03/07/2019	Telephone: 913-551-7003
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018	Source: EPA Region 10
Date Data Arrived at EDR: 03/07/2019	Telephone: 206-553-2857
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/10/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/08/2019	Telephone: 415-972-3372
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 54	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/16/2018	Source: EPA Region 8
Date Data Arrived at EDR: 03/07/2019	Telephone: 303-312-6271
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 03/07/2019	Telephone: 214-665-6597
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/24/2018	Source: EPA Region 4
Date Data Arrived at EDR: 03/12/2019	Telephone: 404-562-8677
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/23/2019
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018	Source: EPA Region 1
Date Data Arrived at EDR: 03/07/2019	Telephone: 617-918-1313
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### **State and tribal registered storage tank lists**

FEMA UST: Underground Storage Tank Listing  
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017	Source: FEMA
Date Data Arrived at EDR: 05/30/2017	Telephone: 202-646-5797
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 07/10/2019
Number of Days to Update: 136	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Varies

UST: Summary Listing of all the Tanks Registered in the State of Massachusetts  
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 06/01/2019	Source: Department of Fire Services, Office of the Public Safety
Date Data Arrived at EDR: 06/07/2019	Telephone: 617-556-1035
Date Made Active in Reports: 07/16/2019	Last EDR Contact: 07/12/2019
Number of Days to Update: 39	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Database  
Registered Aboveground Storage Tanks.

Date of Government Version: 12/19/2018	Source: Department of Public Safety
Date Data Arrived at EDR: 12/20/2018	Telephone: 617-556-1035
Date Made Active in Reports: 02/11/2019	Last EDR Contact: 07/12/2019
Number of Days to Update: 53	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: No Update Planned

AST 2: Aboveground Storage Tanks  
Aboveground storage tanks

Date of Government Version: 04/17/2019	Source: Department of Fire Services
Date Data Arrived at EDR: 04/19/2019	Telephone: 978-567-3181
Date Made Active in Reports: 05/10/2019	Last EDR Contact: 07/12/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land  
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/17/2018	Source: EPA Region 10
Date Data Arrived at EDR: 03/07/2019	Telephone: 206-553-2857
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 11/07/2018	Source: EPA Region 7
Date Data Arrived at EDR: 03/07/2019	Telephone: 913-551-7003
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/16/2018	Source: EPA Region 8
Date Data Arrived at EDR: 03/07/2019	Telephone: 303-312-6137
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

### INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 03/07/2019	Telephone: 214-665-7591
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/12/2018	Source: EPA Region 5
Date Data Arrived at EDR: 03/07/2019	Telephone: 312-886-6136
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations).

Date of Government Version: 09/24/2018	Source: EPA Region 4
Date Data Arrived at EDR: 03/12/2019	Telephone: 404-562-9424
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/23/2019
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/03/2018	Source: EPA, Region 1
Date Data Arrived at EDR: 03/07/2019	Telephone: 617-918-1313
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/10/2018	Source: EPA Region 9
Date Data Arrived at EDR: 03/08/2019	Telephone: 415-972-3368
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/24/2019
Number of Days to Update: 54	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### **State and tribal institutional control / engineering control registries**

#### INST CONTROL: Sites With Activity and Use Limitation

Activity and Use Limitations establish limits and conditions on the future use of contaminated property, and therefore allow cleanups to be tailored to these uses.

Date of Government Version: 02/28/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/09/2019	Telephone: 617-292-5990
Date Made Active in Reports: 05/09/2019	Last EDR Contact: 07/23/2019
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Quarterly

### **State and tribal voluntary cleanup sites**

#### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

#### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 06/20/2019
Number of Days to Update: 142	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Varies

### **State and tribal Brownfields sites**

#### BROWNFIELDS: Completed Brownfields Covenants Listing

Under Massachusetts law, M.G.L. c. 21E is the statute that governs the cleanup of releases of oil and/or hazardous material to the environment. The Brownfields Act of 1998 amended M.G.L. c. 21E by establishing significant liability relief and financial incentives to spur the redevelopment of brownfields, while ensuring that the Commonwealth's environmental standards are met. Most brownfields are redeveloped with the benefit of liability protections that operate automatically under M.G.L. c. 21E.

Date of Government Version: 04/05/2017	Source: Office of the Attorney General
Date Data Arrived at EDR: 08/03/2017	Telephone: 617-963-2423
Date Made Active in Reports: 10/10/2017	Last EDR Contact: 05/03/2019
Number of Days to Update: 68	Next Scheduled EDR Contact: 08/12/2019
	Data Release Frequency: Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### BROWNFIELDS 2: Potential Brownfields Listing

A listing of potential brownfields site locations in the state.

Date of Government Version: 05/22/2017	Source: Department of Environmental Protection
Date Data Arrived at EDR: 08/03/2017	Telephone: 617-556-1007
Date Made Active in Reports: 09/22/2017	Last EDR Contact: 05/03/2019
Number of Days to Update: 50	Next Scheduled EDR Contact: 08/12/2019
	Data Release Frequency: Varies

### ADDITIONAL ENVIRONMENTAL RECORDS

#### **Local Brownfield lists**

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/18/2018	Telephone: 202-566-2777
Date Made Active in Reports: 01/11/2019	Last EDR Contact: 06/04/2019
Number of Days to Update: 24	Next Scheduled EDR Contact: 09/30/2019
	Data Release Frequency: Semi-Annually

#### **Local Lists of Landfill / Solid Waste Disposal Sites**

#### INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 04/26/2019
Number of Days to Update: 52	Next Scheduled EDR Contact: 08/12/2019
	Data Release Frequency: Varies

#### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/19/2019
Number of Days to Update: 137	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: No Update Planned

#### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 04/23/2019
Number of Days to Update: 176	Next Scheduled EDR Contact: 08/12/2019
	Data Release Frequency: Varies

### **Local Lists of Hazardous waste / Contaminated Sites**

#### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/24/2019	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 02/26/2019	Telephone: 202-307-1000
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 05/24/2019
Number of Days to Update: 50	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: No Update Planned

#### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/24/2019	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 02/26/2019	Telephone: 202-307-1000
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 05/24/2019
Number of Days to Update: 50	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: Quarterly

#### PFAS: PFAS Contaminated Sites Listing

Detection of Per- and Polyfluoroalkyl Substances (PFAS) in drinking water.

Date of Government Version: 06/28/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/02/2019	Telephone: 617-292-6770
Date Made Active in Reports: 07/12/2019	Last EDR Contact: 07/02/2019
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Varies

### **Local Land Records**

#### LIENS: Liens Information Listing

A listing of environmental liens.

Date of Government Version: 03/07/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/09/2018	Telephone: 617-292-5628
Date Made Active in Reports: 06/21/2018	Last EDR Contact: 05/16/2019
Number of Days to Update: 104	Next Scheduled EDR Contact: 09/02/2019
	Data Release Frequency: Varies

#### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/11/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/18/2019	Telephone: 202-564-6023
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 07/02/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Semi-Annually

### **Records of Emergency Release Reports**

#### **HMIRS: Hazardous Materials Information Reporting System**

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/25/2019	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 03/26/2019	Telephone: 202-366-4555
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 49	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Quarterly

#### **MA SPILLS: Historical Spill List**

The Spills Database was the release notification tracking system for spills that occurred prior to October 1, 1993. This information should be considered to be primarily of historical interest since all of the listed spills have either been cleaned up or assigned new tracking numbers and moved to the Reportable Releases or Sites Transition List databases.

Date of Government Version: 09/30/1993	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/03/2003	Telephone: 617-292-5720
Date Made Active in Reports: 12/31/2003	Last EDR Contact: 12/03/2003
Number of Days to Update: 28	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### **RELEASE: Reportable Releases**

Contains information on all releases of oil and hazardous materials that have been reported to DEP

Date of Government Version: 02/28/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/09/2019	Telephone: 617-292-5990
Date Made Active in Reports: 05/09/2019	Last EDR Contact: 07/23/2019
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Quarterly

#### **SPILLS 90: SPILLS90 data from FirstSearch**

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/11/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/08/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### **SPILLS 80: SPILLS80 data from FirstSearch**

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/10/1998	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/05/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 61	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### **Other Ascertainable Records**

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: (888) 372-7341
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Quarterly

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 03/07/2019	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 04/03/2019	Telephone: 202-528-4285
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 05/21/2019
Number of Days to Update: 50	Next Scheduled EDR Contact: 09/02/2019
	Data Release Frequency: Varies

### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/09/2019
Number of Days to Update: 62	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Semi-Annually

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 07/10/2019
Number of Days to Update: 339	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 05/13/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 08/26/2019
	Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/26/2019	Telephone: 202-566-1917
Date Made Active in Reports: 05/07/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 42	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 05/06/2019
Number of Days to Update: 88	Next Scheduled EDR Contact: 08/19/2019
	Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 05/10/2019
Number of Days to Update: 73	Next Scheduled EDR Contact: 08/19/2019
	Data Release Frequency: Varies

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 06/21/2017	Telephone: 202-260-5521
Date Made Active in Reports: 01/05/2018	Last EDR Contact: 06/18/2019
Number of Days to Update: 198	Next Scheduled EDR Contact: 09/30/2019
	Data Release Frequency: Every 4 Years

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016	Source: EPA
Date Data Arrived at EDR: 01/10/2018	Telephone: 202-566-0250
Date Made Active in Reports: 01/12/2018	Last EDR Contact: 05/24/2019
Number of Days to Update: 2	Next Scheduled EDR Contact: 09/02/2019
	Data Release Frequency: Annually

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 04/24/2019
Number of Days to Update: 77	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Annually

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/11/2019	Source: EPA
Date Data Arrived at EDR: 04/18/2019	Telephone: 703-416-0223
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 07/01/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/16/2019
	Data Release Frequency: Annually

### RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/02/2019	Telephone: 202-564-8600
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 07/22/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

### PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/11/2019	Source: EPA
Date Data Arrived at EDR: 04/18/2019	Telephone: 202-564-6023
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 07/01/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/19/2019
	Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/20/2019	Source: EPA
Date Data Arrived at EDR: 04/10/2019	Telephone: 202-566-0500
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 07/12/2019
Number of Days to Update: 34	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Annually

**ICIS: Integrated Compliance Information System**

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 07/03/2019
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Quarterly

**FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

**FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

**MLTS: Material Licensing Tracking System**

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 07/22/2019
Number of Days to Update: 43	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Quarterly

**COAL ASH DOE: Steam-Electric Plant Operation Data**

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 06/07/2019
Number of Days to Update: 76	Next Scheduled EDR Contact: 09/16/2019
	Data Release Frequency: Varies

**COAL ASH EPA: Coal Combustion Residues Surface Impoundments List**

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 06/07/2019
Number of Days to Update: 40	Next Scheduled EDR Contact: 09/16/2019
	Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/30/2017	Telephone: 202-566-0517
Date Made Active in Reports: 12/15/2017	Last EDR Contact: 04/26/2019
Number of Days to Update: 15	Next Scheduled EDR Contact: 08/05/2019
	Data Release Frequency: Varies

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/02/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/02/2019	Telephone: 202-343-9775
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 07/01/2019
Number of Days to Update: 42	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Quarterly

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 01/29/2019	Telephone: 202-366-4595
Date Made Active in Reports: 03/21/2019	Last EDR Contact: 04/30/2019
Number of Days to Update: 51	Next Scheduled EDR Contact: 08/12/2019
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2019	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 04/23/2019	Telephone: Varies
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 07/08/2019
Number of Days to Update: 30	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Varies

### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015	Source: EPA/NTIS
Date Data Arrived at EDR: 02/22/2017	Telephone: 800-424-9346
Date Made Active in Reports: 09/28/2017	Last EDR Contact: 06/26/2019
Number of Days to Update: 218	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Biennially

### INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 07/10/2019
Number of Days to Update: 546	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Semi-Annually

### FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017	Source: Department of Energy
Date Data Arrived at EDR: 09/11/2018	Telephone: 202-586-3559
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 05/02/2019
Number of Days to Update: 3	Next Scheduled EDR Contact: 08/19/2019
	Data Release Frequency: Varies

### UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017	Source: Department of Energy
Date Data Arrived at EDR: 10/11/2017	Telephone: 505-845-0011
Date Made Active in Reports: 11/03/2017	Last EDR Contact: 05/24/2019
Number of Days to Update: 23	Next Scheduled EDR Contact: 09/02/2019
	Data Release Frequency: Varies

### LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/11/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/18/2019	Telephone: 703-603-8787
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 07/01/2019
Number of Days to Update: 26	Next Scheduled EDR Contact: 10/14/2019
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

### US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

### US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/27/2018	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 02/27/2019	Telephone: 303-231-5959
Date Made Active in Reports: 04/01/2019	Last EDR Contact: 05/29/2019
Number of Days to Update: 33	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: Semi-Annually

### US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005	Source: USGS
Date Data Arrived at EDR: 02/29/2008	Telephone: 703-648-7709
Date Made Active in Reports: 04/18/2008	Last EDR Contact: 05/31/2019
Number of Days to Update: 49	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: Varies

### US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 05/31/2019
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019	Source: Department of Interior
Date Data Arrived at EDR: 03/28/2019	Telephone: 202-208-2609
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 06/19/2019
Number of Days to Update: 34	Next Scheduled EDR Contact: 09/23/2019
	Data Release Frequency: Quarterly

### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/15/2019	Source: EPA
Date Data Arrived at EDR: 03/05/2019	Telephone: (617) 918-1111
Date Made Active in Reports: 03/15/2019	Last EDR Contact: 06/05/2019
Number of Days to Update: 10	Next Scheduled EDR Contact: 09/16/2019
	Data Release Frequency: Quarterly

### ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 04/07/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/09/2019	Telephone: 202-564-2280
Date Made Active in Reports: 05/23/2019	Last EDR Contact: 07/09/2019
Number of Days to Update: 44	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Quarterly

### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017	Source: Department of Defense
Date Data Arrived at EDR: 01/17/2019	Telephone: 703-704-1564
Date Made Active in Reports: 04/01/2019	Last EDR Contact: 07/15/2019
Number of Days to Update: 74	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Varies

### DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/26/2018	Telephone: 202-564-0527
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 05/24/2019
Number of Days to Update: 71	Next Scheduled EDR Contact: 09/09/2019
	Data Release Frequency: Varies

### FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/19/2019	Source: EPA
Date Data Arrived at EDR: 02/21/2019	Telephone: 800-385-6164
Date Made Active in Reports: 04/01/2019	Last EDR Contact: 05/21/2019
Number of Days to Update: 39	Next Scheduled EDR Contact: 09/02/2019
	Data Release Frequency: Quarterly

**AIRS: Permitted Facilities Listing**  
A listing of Air Quality permit applications.

Date of Government Version: 04/18/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/19/2019	Telephone: 617-292-5789
Date Made Active in Reports: 05/10/2019	Last EDR Contact: 07/12/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Varies

**ASBESTOS: Asbestos Notification Listing**  
Asbestos sites

Date of Government Version: 05/28/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/30/2019	Telephone: 617-292-5982
Date Made Active in Reports: 06/10/2019	Last EDR Contact: 05/09/2019
Number of Days to Update: 11	Next Scheduled EDR Contact: 09/02/2019
	Data Release Frequency: Varies

**DRYCLEANERS: Regulated Drycleaning Facilities**  
A listing of Department of Environmental Protection regulated drycleaning facilities that use perchloroethylene under the Environmental Results Program.

Date of Government Version: 06/04/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 06/07/2019	Telephone: 617-292-5633
Date Made Active in Reports: 07/16/2019	Last EDR Contact: 07/12/2019
Number of Days to Update: 39	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Varies

**ENFORCEMENT: Enforcement Action Cases**  
A listing of enforcement action cases tracked by Department of Environmental Protection programs, including Solid Waste and Hazardous Waste.

Date of Government Version: 04/26/2019	Source: Department of Environmental Quality
Date Data Arrived at EDR: 04/30/2019	Telephone: 617-292-5979
Date Made Active in Reports: 06/10/2019	Last EDR Contact: 04/26/2019
Number of Days to Update: 41	Next Scheduled EDR Contact: 08/12/2019
	Data Release Frequency: Varies

**Financial Assurance 1: Financial Assurance Information Listing**  
Information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 12/01/2010	Source: Department of Environmental Protection
Date Data Arrived at EDR: 12/23/2010	Telephone: 617-292-5970
Date Made Active in Reports: 02/03/2011	Last EDR Contact: 06/10/2019
Number of Days to Update: 42	Next Scheduled EDR Contact: 09/23/2019
	Data Release Frequency: Varies

**Financial Assurance 2: Financial Assurance Information Listing**  
A listing of financial assurance information for underground storage tanks. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.



## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/11/2018	Source: Office of State Fire Marshal
Date Data Arrived at EDR: 07/17/2018	Telephone: 978-567-3100
Date Made Active in Reports: 09/05/2018	Last EDR Contact: 07/12/2019
Number of Days to Update: 50	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Varies

### Financial Assurance 3: Financial Assurance Information listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

Date of Government Version: 01/16/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 04/17/2018	Telephone: 617-292-5970
Date Made Active in Reports: 06/15/2018	Last EDR Contact: 07/08/2019
Number of Days to Update: 59	Next Scheduled EDR Contact: 10/21/2019
	Data Release Frequency: Varies

### GWDP: Ground Water Discharge Permits

The Ground Water Discharge Permits datalayer (formerly known as Groundwater Discharge Points) is a statewide point dataset containing approximate locations of permitted discharges to groundwater.

Date of Government Version: 04/08/2019	Source: MassGIS
Date Data Arrived at EDR: 05/03/2019	Telephone: 617-556-1150
Date Made Active in Reports: 06/10/2019	Last EDR Contact: 05/03/2019
Number of Days to Update: 38	Next Scheduled EDR Contact: 08/12/2019
	Data Release Frequency: Varies

### HW GEN: List of Massachusetts Hazardous Waste Generators

Permanent generator identification numbers for all Massachusetts generators of hazardous waste and waste oil that have registered with or notified MassDEP of their hazardous waste activities.

Date of Government Version: 06/21/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 06/26/2019	Telephone: 617-292-5500
Date Made Active in Reports: 07/16/2019	Last EDR Contact: 06/26/2019
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Semi-Annually

### MERCURY: Mercury Product Recycling Drop-Off Locations Listing

A listing of locations, collecting and recycling for mercury-added products. Mercury is toxic to the human nervous system, as well as fish and animals. Mercury can enter the body either through skin absorption or through inhalation of mercury vapors. At room temperature, small beads of mercury will vaporize.

Date of Government Version: 05/07/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 05/25/2018	Telephone: 617-292-5632
Date Made Active in Reports: 06/25/2018	Last EDR Contact: 05/16/2019
Number of Days to Update: 31	Next Scheduled EDR Contact: 09/02/2019
	Data Release Frequency: Varies

### NPDES: NPDES Permit Listing

Listing of treatment plants in Massachusetts that hold permits to discharge to groundwater.

Date of Government Version: 11/14/2018	Source: Department of Environmental Protection
Date Data Arrived at EDR: 11/15/2018	Telephone: 508-767-2781
Date Made Active in Reports: 12/17/2018	Last EDR Contact: 05/17/2019
Number of Days to Update: 32	Next Scheduled EDR Contact: 08/26/2019
	Data Release Frequency: Varies

### TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2018	Source: Massachusetts Emergency Management Agency
Date Data Arrived at EDR: 04/25/2019	Telephone: 508-820-2019
Date Made Active in Reports: 07/16/2019	Last EDR Contact: 07/12/2019
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Annually

**TSD: TSD Facility**

List of Licensed Hazardous Waste Treatment, Storage Disposal Facilities (TSDFs) in Massachusetts.

Date of Government Version: 06/24/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 06/27/2019	Telephone: 617-292-5580
Date Made Active in Reports: 07/16/2019	Last EDR Contact: 06/24/2019
Number of Days to Update: 19	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Varies

**UIC: Underground Injection Control Listing**

A list of UIC registration data and their locations

Date of Government Version: 03/21/2019	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/22/2019	Telephone: 617-566-1172
Date Made Active in Reports: 05/22/2019	Last EDR Contact: 05/10/2019
Number of Days to Update: 61	Next Scheduled EDR Contact: 08/26/2019
	Data Release Frequency: Varies

**EDR HIGH RISK HISTORICAL RECORDS*****EDR Exclusive Records*****EDR MGP: EDR Proprietary Manufactured Gas Plants**

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

**EDR Hist Auto: EDR Exclusive Historical Auto Stations**

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

#### RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Protection in Massachusetts.

Date of Government Version: N/A	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/24/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 176	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/11/2019	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 02/12/2019	Telephone: 860-424-3375
Date Made Active in Reports: 03/04/2019	Last EDR Contact: 05/14/2019
Number of Days to Update: 20	Next Scheduled EDR Contact: 08/26/2019
	Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018  
 Date Data Arrived at EDR: 04/10/2019  
 Date Made Active in Reports: 05/16/2019  
 Number of Days to Update: 36

Source: Department of Environmental Protection  
 Telephone: N/A  
 Last EDR Contact: 07/09/2019  
 Next Scheduled EDR Contact: 10/21/2019  
 Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019  
 Date Data Arrived at EDR: 05/01/2019  
 Date Made Active in Reports: 06/21/2019  
 Number of Days to Update: 51

Source: Department of Environmental Conservation  
 Telephone: 518-402-8651  
 Last EDR Contact: 05/01/2019  
 Next Scheduled EDR Contact: 08/12/2019  
 Data Release Frequency: Quarterly

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017  
 Date Data Arrived at EDR: 10/23/2018  
 Date Made Active in Reports: 11/27/2018  
 Number of Days to Update: 35

Source: Department of Environmental Protection  
 Telephone: 717-783-8990  
 Last EDR Contact: 07/15/2019  
 Next Scheduled EDR Contact: 10/28/2019  
 Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017  
 Date Data Arrived at EDR: 02/23/2018  
 Date Made Active in Reports: 04/09/2018  
 Number of Days to Update: 45

Source: Department of Environmental Management  
 Telephone: 401-222-2797  
 Last EDR Contact: 05/17/2019  
 Next Scheduled EDR Contact: 09/02/2019  
 Data Release Frequency: Annually

### VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 04/22/2019  
 Date Data Arrived at EDR: 04/23/2019  
 Date Made Active in Reports: 06/25/2019  
 Number of Days to Update: 63

Source: Department of Environmental Conservation  
 Telephone: 802-241-3443  
 Last EDR Contact: 07/15/2019  
 Next Scheduled EDR Contact: 10/28/2019  
 Data Release Frequency: Annually

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017  
 Date Data Arrived at EDR: 06/15/2018  
 Date Made Active in Reports: 07/09/2018  
 Number of Days to Update: 24

Source: Department of Natural Resources  
 Telephone: N/A  
 Last EDR Contact: 06/10/2019  
 Next Scheduled EDR Contact: 09/23/2019  
 Data Release Frequency: Annually

### Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

### Electric Power Transmission Line Data

Source: PennWell Corporation

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## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetland Inventory

Source: MassDEP

Telephone: 617-292-5907

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

### STREET AND ADDRESS INFORMATION

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

SOMERSET MIDDLE SCHOOL  
1141 BRAYTON AVENUE  
SOMERSET, MA 02726

### TARGET PROPERTY COORDINATES

Latitude (North):	41.738279 - 41° 44' 17.80"
Longitude (West):	71.165099 - 71° 9' 54.36"
Universal Transverse Mercator:	Zone 19
UTM X (Meters):	319948.9
UTM Y (Meters):	4622770.5
Elevation:	149 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	5641997 FALL RIVER, MA
Version Date:	2012
North Map:	5641999 SOMERSET, MA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

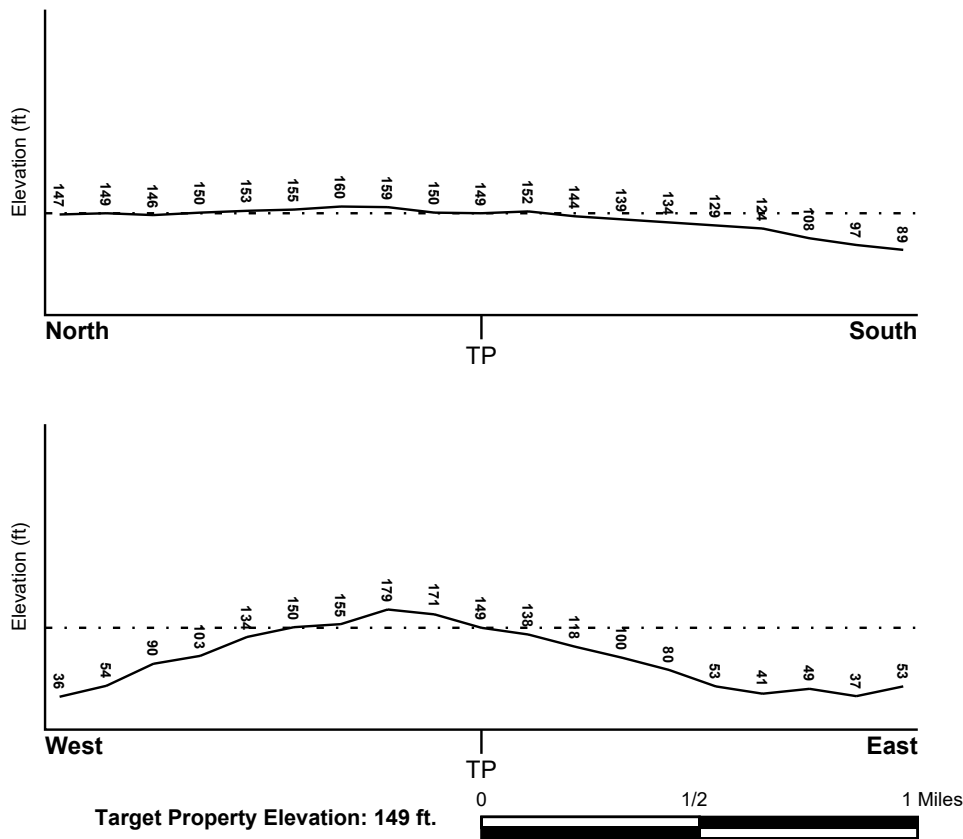
**TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**TARGET PROPERTY TOPOGRAPHY**

General Topographic Gradient: General ESE

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

**GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

**HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

**FEMA FLOOD ZONE**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
25005C0331G	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
25005C0243F	FEMA FIRM Flood data
25005C0244G	FEMA FIRM Flood data
25005C0332G	FEMA FIRM Flood data

**NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
FALL RIVER	YES - refer to the Overview Map and Detail Map

**HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

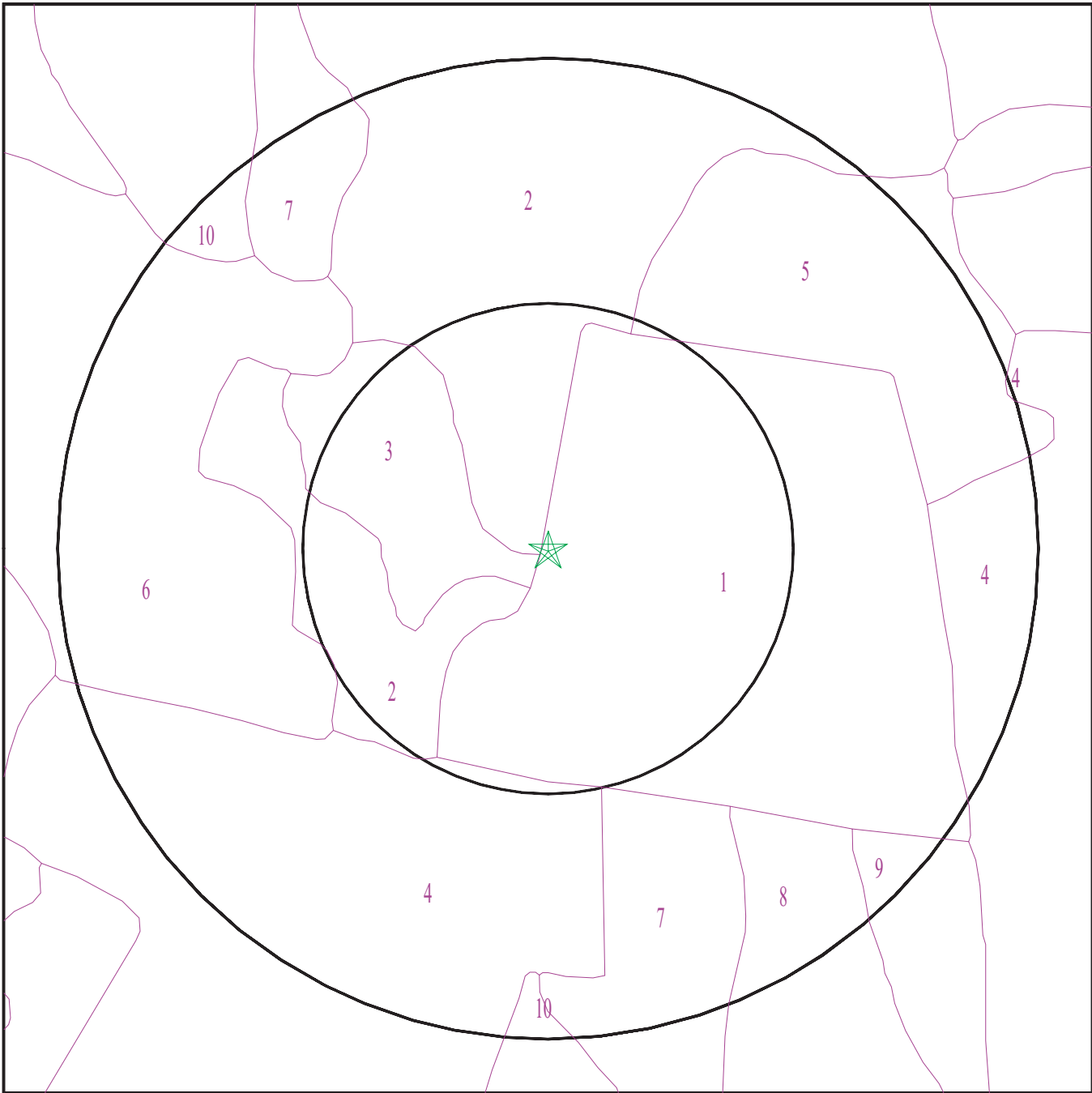
Era:	Paleozoic
System:	Pennsylvanian
Series:	Pennsylvanian
Code:	PP <i>(decoded above as Era, System &amp; Series)</i>

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### SSURGO SOIL MAP - 5741137.2s



- ★ Target Property
- ∕ SSURGO Soil
- ∕ Water



SITE NAME: Somerset Middle School  
ADDRESS: 1141 Brayton Avenue  
Somerset MA 02726  
LAT/LONG: 41.738279 / 71.165099

CLIENT: The Vertex Companies, Inc.  
CONTACT: Nicollette Lynch  
INQUIRY #: 5741137.2s  
DATE: August 05, 2019 2:26 pm

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## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

#### Soil Map ID: 1

Soil Component Name: Udorthents

Soil Surface Texture: variable

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:  
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	5 inches	variable	Not reported	Not reported	Max: 141.14 Min: 0.42	Max: Min:
2	5 inches	59 inches	variable	Not reported	Not reported	Max: 141.14 Min: 0.42	Max: Min:

#### Soil Map ID: 2

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
2	7 inches	22 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
3	22 inches	59 inches	gravelly sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5

### Soil Map ID: 3

Soil Component Name: Woodbridge

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
2	9 inches	27 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	27 inches	59 inches	gravelly fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5

### Soil Map ID: 4

Soil Component Name: Urban land

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:  
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

### Soil Map ID: 5

Soil Component Name: Pittstown

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

**GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	silt loam	Not reported	Not reported	Max: 1.41 Min: 0.42	Max: 6 Min: 4.5
2	9 inches	29 inches	channery loam	Not reported	Not reported	Max: 1.41 Min: 0.42	Max: 6 Min: 4.5
3	29 inches	59 inches	channery silt loam	Not reported	Not reported	Max: 1.41 Min: 0.42	Max: 6 Min: 4.5

**Soil Map ID: 6**

Soil Component Name: Paxton

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
2	7 inches	22 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
3	22 inches	59 inches	gravelly sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 7

Soil Component Name: Pittstown

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 69 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Not reported	Not reported	Max: 4.23 Min: 0.42	Max: 6 Min: 4.5
2	9 inches	29 inches	channery loam	Not reported	Not reported	Max: 4.23 Min: 0.42	Max: 6 Min: 4.5
3	29 inches	59 inches	channery loam	Not reported	Not reported	Max: 4.23 Min: 0.42	Max: 6 Min: 4.5

### Soil Map ID: 8

Soil Component Name: Newport

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

**GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
2	9 inches	27 inches	channery loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
3	27 inches	59 inches	channery loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5

**Soil Map ID: 9**

Soil Component Name: Woodbridge

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
2	9 inches	27 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5
3	27 inches	59 inches	gravelly fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6 Min: 4.5



## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### Soil Map ID: 10

Soil Component Name: Ridgebury

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 8 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	fine sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5
2	12 inches	29 inches	sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5
3	29 inches	59 inches	sandy loam	Not reported	Not reported	Max: 1.41 Min: 0	Max: 6.5 Min: 4.5

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000459431	1/8 - 1/4 Mile SW

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	USGS40000459521	1/8 - 1/4 Mile NE
3	USGS40000459421	1/4 - 1/2 Mile SE
4	USGS40000459541	1/4 - 1/2 Mile NNW
5	USGS40000459584	1/4 - 1/2 Mile North
6	USGS40000459384	1/4 - 1/2 Mile SE
A7	USGS40000459532	1/4 - 1/2 Mile NW
A8	USGS40000459533	1/4 - 1/2 Mile WNW
9	USGS40000459403	1/4 - 1/2 Mile SW
B10	USGS40000459585	1/4 - 1/2 Mile NW
11	USGS40000459634	1/4 - 1/2 Mile North
12	USGS40000459535	1/4 - 1/2 Mile WNW
13	USGS40000459508	1/4 - 1/2 Mile WNW
B14	USGS40000459600	1/4 - 1/2 Mile NW
15	USGS40000459655	1/2 - 1 Mile North
16	USGS40000459560	1/2 - 1 Mile WNW
18	USGS40000459640	1/2 - 1 Mile NE
C19	USGS40000459392	1/2 - 1 Mile WSW
C21	USGS40000459404	1/2 - 1 Mile WSW
22	USGS40000459697	1/2 - 1 Mile NNE
D23	USGS40000459291	1/2 - 1 Mile SSE
D25	USGS40000459284	1/2 - 1 Mile SSE
27	USGS40000459722	1/2 - 1 Mile North
F28	USGS40000459721	1/2 - 1 Mile North
F29	USGS40000459733	1/2 - 1 Mile North
30	USGS40000459732	1/2 - 1 Mile NNE
31	USGS40000459468	1/2 - 1 Mile West
32	USGS40000459265	1/2 - 1 Mile SSE
34	USGS40000459181	1/2 - 1 Mile South
35	USGS40000459442	1/2 - 1 Mile East
36	USGS40000459180	1/2 - 1 Mile SSE
37	USGS40000459402	1/2 - 1 Mile ESE
38	USGS40000459255	1/2 - 1 Mile SE

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
17	MA9000000004765	1/2 - 1 Mile SW
20	MA9000000003940	1/2 - 1 Mile WSW
E24	MA9000000004341	1/2 - 1 Mile SW
E26	MA9000000005684	1/2 - 1 Mile SW
33	MA9000000005365	1/2 - 1 Mile SSW

**GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

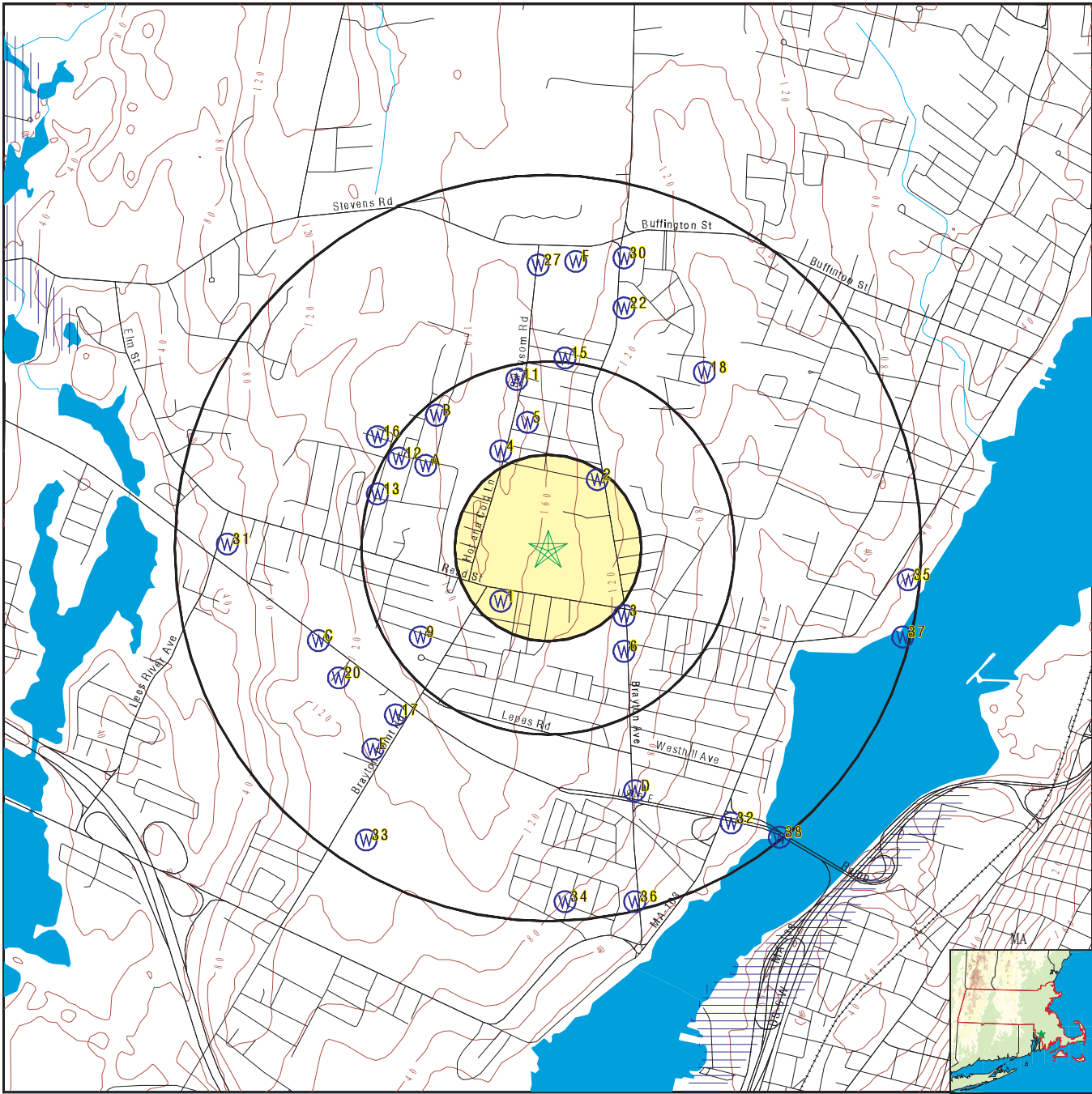
**STATE DATABASE WELL INFORMATION**

MAP ID

WELL ID

LOCATION  
FROM TP

# PHYSICAL SETTING SOURCE MAP - 5741137.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Potentially Productive Aquifers
- Not Potentially Productive Aquifers
- DEP Approved Zone IIs
- EPA Designated Sole Src. Aq.

<p><b>SITE NAME:</b> Somerset Middle School  <b>ADDRESS:</b> 1141 Brayton Avenue                  Somerset MA 02726  <b>LAT/LONG:</b> 41.738279 / 71.165099</p>	<p><b>CLIENT:</b> The Vertex Companies, Inc.  <b>CONTACT:</b> Nicollette Lynch  <b>INQUIRY #:</b> 5741137.2s  <b>DATE:</b> August 05, 2019 2:26 pm</p>
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## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
<b>1</b> <b>SW</b> <b>1/8 - 1/4 Mile</b> <b>Higher</b>		<b>FED USGS</b>	<b>USGS40000459431</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 34	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	34	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels,Number of Measurements:	1	Level reading date:	1952-10-01
Feet below surface:	23.00	Feet to sea level:	Not Reported
Note:	Not Reported		
<b>2</b> <b>NE</b> <b>1/8 - 1/4 Mile</b> <b>Lower</b>		<b>FED USGS</b>	<b>USGS40000459521</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-S9W 170	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	95	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
<b>3</b> <b>SE</b> <b>1/4 - 1/2 Mile</b> <b>Lower</b>		<b>FED USGS</b>	<b>USGS40000459421</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 35	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	24	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels,Number of Measurements:	1	Level reading date:	1952-10-01
Feet below surface:	14.00	Feet to sea level:	Not Reported
Note:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID	Direction	Distance	Elevation	Database	EDR ID Number
<b>4</b>	<b>NNW</b>	<b>1/4 - 1/2 Mile</b>	<b>Higher</b>	<b>FED USGS</b>	<b>USGS40000459541</b>
Organization ID:	USGS-MA				
Organization Name:	USGS Massachusetts Water Science Center				
Monitor Location:	MA-S9W 174	Type:	Well		
Description:	Not Reported	HUC:	01090004		
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported		
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported		
Aquifer:	Not Reported	Formation Type:	Not Reported		
Aquifer Type:	Not Reported	Construction Date:	Not Reported		
Well Depth:	26	Well Depth Units:	ft		
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported		
Ground water levels, Number of Measurements:	1	Level reading date:	1952-10-01		
Feet below surface:	25.00	Feet to sea level:	Not Reported		
Note:	Not Reported				
<b>5</b>	<b>North</b>	<b>1/4 - 1/2 Mile</b>	<b>Higher</b>	<b>FED USGS</b>	<b>USGS40000459584</b>
Organization ID:	USGS-MA				
Organization Name:	USGS Massachusetts Water Science Center				
Monitor Location:	MA-S9W 173	Type:	Well		
Description:	Not Reported	HUC:	01090004		
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported		
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported		
Aquifer:	Not Reported	Formation Type:	Not Reported		
Aquifer Type:	Not Reported	Construction Date:	Not Reported		
Well Depth:	115	Well Depth Units:	ft		
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported		
<b>6</b>	<b>SE</b>	<b>1/4 - 1/2 Mile</b>	<b>Lower</b>	<b>FED USGS</b>	<b>USGS40000459384</b>
Organization ID:	USGS-MA				
Organization Name:	USGS Massachusetts Water Science Center				
Monitor Location:	MA-SPW 36	Type:	Well		
Description:	Not Reported	HUC:	01090004		
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported		
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported		
Aquifer:	Not Reported	Formation Type:	Not Reported		
Aquifer Type:	Not Reported	Construction Date:	1915		
Well Depth:	Not Reported	Well Depth Units:	Not Reported		
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
<b>A7</b> <b>NW</b> <b>1/4 - 1/2 Mile</b> <b>Higher</b>		<b>FED USGS</b>	<b>USGS40000459532</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 24	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bedrock
Aquifer Type:	Not Reported	Construction Date:	1951
Well Depth:	65	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels,Number of Measurements:	1	Level reading date:	1952-10-01
Feet below surface:	12.00	Feet to sea level:	Not Reported
Note:	Not Reported		
<b>A8</b> <b>WNW</b> <b>1/4 - 1/2 Mile</b> <b>Higher</b>		<b>FED USGS</b>	<b>USGS40000459533</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 25	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bedrock
Aquifer Type:	Not Reported	Construction Date:	1950
Well Depth:	86	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels,Number of Measurements:	1	Level reading date:	1952-01-01
Feet below surface:	12.00	Feet to sea level:	Not Reported
Note:	Not Reported		
<b>9</b> <b>SW</b> <b>1/4 - 1/2 Mile</b> <b>Lower</b>		<b>FED USGS</b>	<b>USGS40000459403</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 31	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1920
Well Depth:	16	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Ground water levels, Number of Measurements: 1 Level reading date: 1952-10-01  
 Feet below surface: 9.00 Feet to sea level: Not Reported  
 Note: Not Reported

**B10  
 NW  
 1/4 - 1/2 Mile  
 Higher** **FED USGS USGS40000459585**

Organization ID:	USGS-MA	Type:	Well
Organization Name:	USGS Massachusetts Water Science Center	HUC:	01090004
Monitor Location:	MA-S9W 166	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Bedrock
Contrib Drainage Area:	Not Reported	Construction Date:	1929
Aquifer:	Not Reported	Well Depth Units:	ft
Aquifer Type:	Not Reported	Well Hole Depth Units:	Not Reported
Well Depth:	70		
Well Hole Depth:	Not Reported		

**11  
 North  
 1/4 - 1/2 Mile  
 Higher** **FED USGS USGS40000459634**

Organization ID:	USGS-MA	Type:	Well
Organization Name:	USGS Massachusetts Water Science Center	HUC:	01090004
Monitor Location:	MA-S9W 160	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Not Reported
Contrib Drainage Area:	Not Reported	Construction Date:	Not Reported
Aquifer:	Not Reported	Well Depth Units:	ft
Aquifer Type:	Not Reported	Well Hole Depth Units:	Not Reported
Well Depth:	38		
Well Hole Depth:	Not Reported		

Ground water levels, Number of Measurements: 1 Level reading date: 1952-10-01  
 Feet below surface: 18.00 Feet to sea level: Not Reported  
 Note: Not Reported

**12  
 WNW  
 1/4 - 1/2 Mile  
 Higher** **FED USGS USGS40000459535**

Organization ID:	USGS-MA	Type:	Well
Organization Name:	USGS Massachusetts Water Science Center	HUC:	01090004
Monitor Location:	MA-SPW 26	Drainage Area Units:	Not Reported
Description:	Not Reported	Contrib Drainage Area Units:	Not Reported
Drainage Area:	Not Reported	Formation Type:	Bedrock
Contrib Drainage Area:	Not Reported	Construction Date:	1931
Aquifer:	Not Reported	Well Depth Units:	ft
Aquifer Type:	Not Reported	Well Hole Depth Units:	Not Reported
Well Depth:	70		
Well Hole Depth:	Not Reported		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
<b>13</b> <b>WNW</b> <b>1/4 - 1/2 Mile</b> <b>Higher</b>		<b>FED USGS</b>	<b>USGS40000459508</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 27	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	22	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels, Number of Measurements:	1	Level reading date:	1952-10-01
Feet below surface:	13.00	Feet to sea level:	Not Reported
Note:	Not Reported		
<b>B14</b> <b>NW</b> <b>1/4 - 1/2 Mile</b> <b>Higher</b>		<b>FED USGS</b>	<b>USGS40000459600</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-S9W 167	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bedrock
Aquifer Type:	Not Reported	Construction Date:	1951
Well Depth:	115	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
<b>15</b> <b>North</b> <b>1/2 - 1 Mile</b> <b>Lower</b>		<b>FED USGS</b>	<b>USGS40000459655</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-S9W 169	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bedrock
Aquifer Type:	Not Reported	Construction Date:	1947
Well Depth:	97	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
<b>16</b> <b>WNW</b> <b>1/2 - 1 Mile</b> <b>Higher</b>		<b>FED USGS</b>	<b>USGS40000459560</b>
Organization ID: USGS-MA Organization Name: USGS Massachusetts Water Science Center Monitor Location: MA-S9W 168 Description: Not Reported Drainage Area: Not Reported Contrib Drainage Area: Not Reported Aquifer: Not Reported Aquifer Type: Not Reported Well Depth: 152 Well Hole Depth: Not Reported	Type: Well HUC: 01090004 Drainage Area Units: Not Reported Contrib Drainage Area Unts: Not Reported Formation Type: Not Reported Construction Date: 1952 Well Depth Units: ft Well Hole Depth Units: Not Reported		
Ground water levels, Number of Measurements: 1 Feet below surface: 14.00 Note: Not Reported	Level reading date: 1952-08-01 Feet to sea level: Not Reported		

<b>17</b> <b>SW</b> <b>1/2 - 1 Mile</b> <b>Lower</b>		<b>MA WELLS</b>	<b>MA900000004765</b>
PWS ID: Not Reported Type: Not Reported SubBasin: NARRAGANSET BAY	Site Name: Not Reported Facility Name: CVS 0237		
Basemap: DOQ Feature Type: CB Primary Location Source: DD_PAR Tertiary Location Source: Not Reported Date Mapped: 19-SEP-14	Accuracy Estimate (ft): 100 Location Method: PHO Secondary Location Source: AP_DOQ UST ID: 0		

<b>18</b> <b>NE</b> <b>1/2 - 1 Mile</b> <b>Lower</b>		<b>FED USGS</b>	<b>USGS40000459640</b>
Organization ID: USGS-MA Organization Name: USGS Massachusetts Water Science Center Monitor Location: MA-S9W 175 Description: Not Reported Drainage Area: Not Reported Contrib Drainage Area: Not Reported Aquifer: Not Reported Aquifer Type: Not Reported Well Depth: 385 Well Hole Depth: Not Reported	Type: Well HUC: 01090004 Drainage Area Units: Not Reported Contrib Drainage Area Unts: Not Reported Formation Type: Not Reported Construction Date: 1942 Well Depth Units: ft Well Hole Depth Units: Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
<b>C19</b>			
<b>WSW</b>		<b>FED USGS</b>	<b>USGS40000459392</b>
<b>1/2 - 1 Mile</b>			
<b>Lower</b>			
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 21	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bedrock
Aquifer Type:	Not Reported	Construction Date:	1949
Well Depth:	80	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels, Number of Measurements:	1	Level reading date:	1949-08-01
Feet below surface:	3.00	Feet to sea level:	Not Reported
Note:	Not Reported		
<b>20</b>			
<b>WSW</b>		<b>MA WELLS</b>	<b>MA9000000003940</b>
<b>1/2 - 1 Mile</b>			
<b>Lower</b>			
PWS ID:	Not Reported	Site Name:	Not Reported
Type:	Not Reported	Facility Name:	AUTOZONE
SubBasin:	NARRAGANSET BAY		
Basemap:	DOQ	Accuracy Estimate (ft):	16
Feature Type:	CB	Location Method:	PHO
Primary Location Source:	MS_GMAP	Secondary Location Source:	Not Reported
Tertiary Location Source:	Not Reported	UST ID:	0
Date Mapped:	16-DEC-09		
<b>C21</b>			
<b>WSW</b>		<b>FED USGS</b>	<b>USGS40000459404</b>
<b>1/2 - 1 Mile</b>			
<b>Lower</b>			
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 20	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bedrock
Aquifer Type:	Not Reported	Construction Date:	1952
Well Depth:	102	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels, Number of Measurements:	1	Level reading date:	1952-08-01
Feet below surface:	11.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID  
 Direction  
 Distance  
 Elevation

---

**22**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**Database**      **EDR ID Number**

---

**FED USGS**      **USGS40000459697**

Organization ID: USGS-MA  
 Organization Name: USGS Massachusetts Water Science Center  
 Monitor Location: MA-S9W 172      Type: Well  
 Description: Not Reported      HUC: 01090004  
 Drainage Area: Not Reported      Drainage Area Units: Not Reported  
 Contrib Drainage Area: Not Reported      Contrib Drainage Area Units: Not Reported  
 Aquifer: Not Reported      Formation Type: Not Reported  
 Aquifer Type: Not Reported      Construction Date: Not Reported  
 Well Depth: 26      Well Depth Units: ft  
 Well Hole Depth: Not Reported      Well Hole Depth Units: Not Reported

Ground water levels, Number of Measurements: 1      Level reading date: 1952-10-01  
 Feet below surface: 15.00      Feet to sea level: Not Reported  
 Note: Not Reported

**D23**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS**      **USGS40000459291**

Organization ID: USGS-MA  
 Organization Name: USGS Massachusetts Water Science Center  
 Monitor Location: MA-SPB 19      Type: Well  
 Description: Not Reported      HUC: 01090004  
 Drainage Area: Not Reported      Drainage Area Units: Not Reported  
 Contrib Drainage Area: Not Reported      Contrib Drainage Area Units: Not Reported  
 Aquifer: Not Reported      Formation Type: Not Reported  
 Aquifer Type: Not Reported      Construction Date: 1971  
 Well Depth: 13      Well Depth Units: ft  
 Well Hole Depth: Not Reported      Well Hole Depth Units: Not Reported

Ground water levels, Number of Measurements: 1      Level reading date: 1971-01-01  
 Feet below surface: Not Reported      Feet to sea level: Not Reported  
 Note: The site was dry (no water level recorded).

**E24**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**MA WELLS**      **MA9000000004341**

PWS ID: Not Reported      Site Name: Not Reported  
 Type: Not Reported      Facility Name: SOMERSET CHRYSLER JEEP  
 SubBasin: NARRAGANSET BAY

Basemap: DOQ      Accuracy Estimate (ft): 16  
 Feature Type: CB      Location Method: PHO  
 Primary Location Source: WWW      Secondary Location Source: Not Reported  
 Tertiary Location Source: Not Reported      UST ID: 0  
 Date Mapped: 23-OCT-09

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
<b>D25</b> <b>SSE</b> <b>1/2 - 1 Mile</b> <b>Lower</b>		<b>FED USGS</b>	<b>USGS40000459284</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 28	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	32	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels, Number of Measurements:	1	Level reading date:	1952-10-01
Feet below surface:	18.00	Feet to sea level:	Not Reported
Note:	Not Reported		
<b>E26</b> <b>SW</b> <b>1/2 - 1 Mile</b> <b>Lower</b>		<b>MA WELLS</b>	<b>MA9000000005684</b>
PWS ID:	Not Reported	Site Name:	Not Reported
Type:	Not Reported	Facility Name:	SOMERSET SUBARU
SubBasin:	NARRAGANSET BAY		
Basemap:	DOQ	Accuracy Estimate (ft):	16
Feature Type:	CB	Location Method:	PHO
Primary Location Source:	WWW	Secondary Location Source:	DD_PAR
Tertiary Location Source:	Not Reported	UST ID:	0
Date Mapped:	23-OCT-09		
<b>27</b> <b>North</b> <b>1/2 - 1 Mile</b> <b>Higher</b>		<b>FED USGS</b>	<b>USGS40000459722</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-S9W 159	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bedrock
Aquifer Type:	Not Reported	Construction Date:	1928
Well Depth:	95	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID  
 Direction  
 Distance  
 Elevation

	Database	EDR ID Number
<b>F28</b>	<b>FED USGS</b>	<b>USGS40000459721</b>
<b>North</b>		
<b>1/2 - 1 Mile</b>		
<b>Lower</b>		
Organization ID:	USGS-MA	
Organization Name:	USGS Massachusetts Water Science Center	
Monitor Location:	MA-S9W 156	Type: Well
Description:	Not Reported	HUC: 01090004
Drainage Area:	Not Reported	Drainage Area Units: Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units: Not Reported
Aquifer:	Not Reported	Formation Type: Not Reported
Aquifer Type:	Not Reported	Construction Date: 1920
Well Depth:	100	Well Depth Units: ft
Well Hole Depth:	Not Reported	Well Hole Depth Units: Not Reported

**F29**

	Database	EDR ID Number
<b>North</b>	<b>FED USGS</b>	<b>USGS40000459733</b>
<b>1/2 - 1 Mile</b>		
<b>Lower</b>		
Organization ID:	USGS-MA	
Organization Name:	USGS Massachusetts Water Science Center	
Monitor Location:	MA-S9W 157	Type: Well
Description:	Not Reported	HUC: 01090004
Drainage Area:	Not Reported	Drainage Area Units: Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units: Not Reported
Aquifer:	Not Reported	Formation Type: Not Reported
Aquifer Type:	Not Reported	Construction Date: 1917
Well Depth:	50	Well Depth Units: ft
Well Hole Depth:	Not Reported	Well Hole Depth Units: Not Reported

**30**

	Database	EDR ID Number
<b>NNE</b>	<b>FED USGS</b>	<b>USGS40000459732</b>
<b>1/2 - 1 Mile</b>		
<b>Lower</b>		
Organization ID:	USGS-MA	
Organization Name:	USGS Massachusetts Water Science Center	
Monitor Location:	MA-S9W 171	Type: Well
Description:	Not Reported	HUC: 01090004
Drainage Area:	Not Reported	Drainage Area Units: Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units: Not Reported
Aquifer:	Not Reported	Formation Type: Bedrock
Aquifer Type:	Not Reported	Construction Date: Not Reported
Well Depth:	66	Well Depth Units: ft
Well Hole Depth:	Not Reported	Well Hole Depth Units: Not Reported
Ground water levels,Number of Measurements:	1	Level reading date: 1952-01-01
Feet below surface:	10.00	Feet to sea level: Not Reported
Note:	Not Reported	

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID			
Direction			
Distance			
Elevation		Database	EDR ID Number

<b>31</b>			
<b>West</b>		<b>FED USGS</b>	<b>USGS40000459468</b>
<b>1/2 - 1 Mile</b>			
<b>Lower</b>			

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 19	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1910
Well Depth:	55	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

<b>32</b>			
<b>SSE</b>		<b>FED USGS</b>	<b>USGS40000459265</b>
<b>1/2 - 1 Mile</b>			
<b>Lower</b>			

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPB 20	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1971
Well Depth:	48	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels, Number of Measurements:	1	Level reading date:	1971-01-01
Feet below surface:	20.00	Feet to sea level:	Not Reported
Note:	Not Reported		

<b>33</b>			
<b>SSW</b>		<b>MA WELLS</b>	<b>MA900000005365</b>
<b>1/2 - 1 Mile</b>			
<b>Lower</b>			

PWS ID:	Not Reported		
Type:	Not Reported	Site Name:	Not Reported
SubBasin:	TAUNTON	Facility Name:	MASSACHUSETTS ELECTRIC COMPANY

Basemap:	DOQ		
Feature Type:	CB	Accuracy Estimate (ft):	100
Primary Location Source:	AP_DOQ	Location Method:	PHO
Tertiary Location Source:	Not Reported	Secondary Location Source:	DD_PAR
Date Mapped:	11-MAY-07	UST ID:	0

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID Direction Distance Elevation		Database	EDR ID Number
<b>34</b> <b>South</b> <b>1/2 - 1 Mile</b> <b>Lower</b>		<b>FED USGS</b>	<b>USGS40000459181</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 30	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	20	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels, Number of Measurements:	1	Level reading date:	1952-10-01
Feet below surface:	2.00	Feet to sea level:	Not Reported
Note:	Not Reported		

<b>35</b> <b>East</b> <b>1/2 - 1 Mile</b> <b>Lower</b>		<b>FED USGS</b>	<b>USGS40000459442</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 39	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Bedrock
Aquifer Type:	Not Reported	Construction Date:	1924
Well Depth:	198	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels, Number of Measurements:	1	Level reading date:	1924-05-01
Feet below surface:	18.00	Feet to sea level:	Not Reported
Note:	Not Reported		

<b>36</b> <b>SSE</b> <b>1/2 - 1 Mile</b> <b>Lower</b>		<b>FED USGS</b>	<b>USGS40000459180</b>
Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPW 29	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	25	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels, Number of Measurements:	1	Level reading date:	1952-10-01
Feet below surface:	20.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**37**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000459402**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPX 6	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	63	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**38**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000459255**

Organization ID:	USGS-MA		
Organization Name:	USGS Massachusetts Water Science Center		
Monitor Location:	MA-SPB 4	Type:	Well
Description:	Not Reported	HUC:	01090004
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1905
Well Depth:	27	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS  
RADON**

**AREA RADON INFORMATION**

State Database: MA Radon

Radon Test Results

County	% of sites > 4 pCi/L	Median
BRISTOL	23	1.8

Federal EPA Radon Zone for BRISTOL County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 02726

Number of sites tested: 7

Area	Average Activity	% < 4 pCi/L	% 4-20 pCi/L	% > 20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.371 pCi/L	100%	0%	0%

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### TOPOGRAPHIC INFORMATION

#### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey  
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

#### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

### HYDROLOGIC INFORMATION

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA  
Telephone: 877-336-2627  
Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

#### State Wetlands Data: Wetland Inventory

Source: MassDEP  
Telephone: 617-292-5907

### HYDROGEOLOGIC INFORMATION

#### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information  
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

### GEOLOGIC INFORMATION

#### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

#### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)  
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

#### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)  
Telephone: 800-672-5559  
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### LOCAL / REGIONAL WATER AGENCY RECORDS

#### FEDERAL WATER WELLS

##### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

##### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

##### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### STATE RECORDS

##### Massachusetts Geographic Information System (MassGIS) Datalayers

Source: Executive Office of Environmental Affairs

Telephone:

##### Public Water Supply Database

Telephone:

The Public Water Supply datalayer contains the locations of public community surface and groundwater supply sources and public non-community supply sources as defined in 310 CMR 22.00.

##### Areas of Critical Environmental Concern

Telephone:

The Areas of Critical Environmental Concern (ACEC) datalayer shows the location of areas that have been designated ACECs by the Secretary of Environmental Affairs. ACEC designation requires greater environmental review of certain kinds of proposed development under state jurisdiction within the ACEC boundaries. The ACEC Program is administered by the Department of Environmental Management (DEM) on behalf of the Secretary of Environmental Affairs. The Massachusetts Coastal Zone Management (MCZM) Office managed the original Coastal ACEC Program from 1978 to 1993, and continues to play a key role in monitoring coastal ACECs. Procedures for ACEC designation and the general policies governing the effects of designation are contained in the ACEC regulations (301 CMR 12.00). The ACEC datalayer has been compiled by MCZM and DEM and includes both coastal and inland areas.

##### EPA Designated Sole Source Aquifers

Telephone:

The Sole Source Aquifer datalayer was compiled by the Department of Environmental Protection (DEP) Division of Water Supply (DWS). Seven Sole Source Aquifers have been designated by the US Environmental Protection Agency (EPA) for Massachusetts. A Sole Source Aquifer (SSA) is an aquifer designated by US EPA as the sole or principal source of drinking water for a given aquifer service area; that is, an aquifer which is needed to supply 50% or more of the drinking water for that area and for which there are no reasonably available alternative sources should that aquifer become contaminated. The aquifers were defined by an EPA hydrogeologist.

##### Aquifers

Telephone:

MassGIS produced an aquifer datalayer composed of 20 individual panels, generally based on the boundaries of the major drainage basins. Areas of high and medium yield were mapped. This datalayer includes polygon attribute coding to help in the identification of areas in which cleanup of hazardous waste sites must meet drinking water standards, as defined in the Massachusetts Contingency Plan (MCP) (310 CMR 40.00000).

##### Non-Potential Drinking Water Source Areas

Telephone:

Non-Potential Drinking Water Source Areas (NPDWSA) are regulatory in nature representing one of many considerations used in determining the standards to which ground water must be cleaned in the event of a release of oil or hazardous material. NPDWSAs are not based on existing water quality and do not indicate poor ambient conditions.

##### DEP Approved Zone IIs

TC5741137.2s Page PSGR-2

Telephone:

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### OTHER STATE DATABASE INFORMATION

#### RADON

State Database: MA Radon  
Source: Department of Health  
Telephone: 413-586-7525  
Radon Test Results

#### Area Radon Information

Source: USGS  
Telephone: 703-356-4020  
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA  
Telephone: 703-356-4020  
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

#### OTHER

Airport Landing Facilities: Private and public use landing facilities  
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater  
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

### STREET AND ADDRESS INFORMATION

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**APPENDIX H:  
RESUMES OF ENVIRONMENTAL PROFESSIONALS**



**Genevieve Reynolds**  
**Senior Project Manager**

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**Highlights:**

Compliance Management for  
Global Firms  
Nationwide Due Diligence  
Experience  
Coaching and Mentoring in  
Project Management

**Expertise:**

Compliance Audits  
Database Review  
Environmental Permitting  
Environmental Portfolio  
Reviews  
Exit Assessment  
Limited Compliance Review  
Peer Review  
Phase I ESAs  
Transaction Screen  
Litigation Support & Expert  
Testimony (Environmental)

**Education/Training:**

A.B., Earth and Planetary Sciences, Harvard College, 2004

**Biography:**

Ms. Reynolds has over 10 years of experience in environmental research and environmental consulting. Currently, Ms. Reynolds serves as a Senior Project Manager at VERTEX. As Senior Project Manager, she is responsible for specific job functions related to Phase I Environmental Site Assessments (ESAs), due diligence projects, portfolio risk analysis, and subsurface investigations. Ms. Reynolds also oversees environmental compliance assessments for Due Diligence clients.

Ms. Reynolds is responsible for overall Due Diligence services, including management of large portfolio work. She also oversees VERTEX's compliance with client and ASTM scopes of work. Ms. Reynolds developed VERTEX's internal training program for Phase I ESAs.

**Licenses/Certifications:**

40 Hour OSHA Training  
Asbestos Inspector  
Qualified Environmental Professional under All Appropriate Inquiry Final Rule (40 CFR Part 312)  
OSHA 10



**Nicollette Lynch**  
**Scientist II**

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**Expertise:**

Database Review  
Limited Compliance Review  
Phase I ESAs  
Radon Sampling  
Transaction Screen

**Education/Training:**

B.S. Ecology and Environmental Science, Nicollette Lynch, University of Maine, 2014

**Biography:**

Ms. Lynch is a Staff Scientist at VERTEX. Her due diligence and relevant experience includes Transaction Screens, Database Reviews, and Phase I Environmental Site Assessments at residential, commercial, gas stations, manufacturing facilities, machine shops, and other industrial facilities. Ms. Lynch has also conducted radon and drinking water sampling at both residential and commercial facilities. As Staff Scientist, Ms. Lynch's specific duties include: conducting site visitations and environmental site assessments, technical writing and report preparation.

**Licenses/Certifications:**

40 Hour OSHA HAZWOPER  
10 Hour OSHA General Industry Certification  
Asbestos Awareness