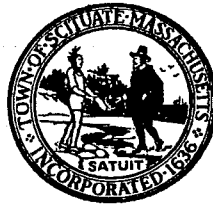


TOWN OF SCITUATE



600 Chief Justice Cushing Hwy  
Scituate, Massachusetts 02066  
Phone: 781-545-8730  
FAX: 781-545-8704

*Planning Board*

September 30, 2015

Ms. Kathleen Curran, Town Clerk  
600 Chief Justice Cushing Highway  
Scituate, MA 02066

RECEIVED  
OCT - 1 AM 10:49  
TOWN OF SCITUATE  
TOWN CLERK

**RE: Approval of Site Plan Administrative Review – Scituate Middle School, 460 First Parish Road/ 606 C J Cushing Highway**

Dear Ms. Curran,

An application for a Site Plan Administrative Review for a new Middle School with a new Performing Arts Center in the existing High School was submitted on July 2, 2015. The site plan was entitled Scituate Middle School Scituate, MA, dated July 1, 2015 with revisions through 9/24/2015 by Jennifer Johnson, P.E. of Nitsch Engineering for Dore and Whittier, Inc. and was accompanied by elevations and floor plans by Dore and Whittier and Landscape Plans by Brown Sardina, Inc. The plans were reviewed for stormwater by the Planning Board’s consulting engineer, Joshua Bows of Merrill Associates, Inc.

Three public hearings were held on August 13, 2015, August 27, 2015 and September 24, 2015. Department comments included the Design Review Committee, which reviewed and approved the plans, the Fire Chief asked for no long term parking at the turnaround drop off and access to the north side of the middle school for fire access and the Water Resource Committee had concerns about the requirements of the Water Resource Protection District (WRPD) and requested assurance that the artificial recharge system would capture rainfall displaced by the amount of impervious surface exceeding 15% and the groundwater will not be degraded. They also wanted assurance that the Operation and Maintenance plan will be followed and that the walkway to the vernal pool will not be bituminous.

Several abutters expressed concern regarding the project. Katie Miller was concerned that there is not a signalized light for children to cross Route 3A. Jim Hunt of 66 Mann Lot was concerned that the level of review for this project should not be different than a private project

and it is not right to say that traffic is outside the scope of work. Ken Chisholm confirmed there would be no vehicular traffic to Cedarwood Rd. Janice Lindblom was concerned that the gates at the back of the High School would cause more traffic issues. Dan Rosen was concerned about traffic during construction. Superintendent McCarthy said that the traffic concerns can be handled administratively and the new traffic patterns for the High School would be in effect during construction. The Planning Board's consulting engineer, Merrill Associates, found that all stormwater issues were adequately addressed or could be conditioned.

At the final public hearing on September 24, 2015, Stephen Pritchard, Chairman, William Limbacher, Robert Vogel, Robert Greene and Ann Burbine being present and voting, the Planning Board voted unanimously to make the following Findings of Fact:

1. The applicant submitted a site plan entitled Scituate Middle School Scituate, MA, Permitting Documents dated July 1, 2015 by Jennifer Johnson, P.E. of Nitsch Engineering for Dore and Whittier, Architects, Inc.
2. The new Middle School was supported by a broad spectrum of Town officials, a vote of a Special Town Meeting, and a special election. A vote of December 3, 2014 Special Town Meeting authorized the Town to borrow up to \$75,000,000 for designing, construction and equipping a Middle School and High School auditorium, and renovating High School space, the school to have an anticipated life of fifty years. This became effective after a vote of 2,933 in favor, 2,616 opposed, for a Proposition 2 ½ override at a special election on January 10, 2015. According to Superintendent John McCarthy, the net cost to the Town not accounting for state funding would be approximately \$54,000,000, while the cost to renovate the existing Gates School would have been \$45,000,000.
3. The property is approximately 70 acres and includes the Scituate High School, parking areas, tennis and basketball courts, running track, skate park, playing fields, the Cushing School and some wooded land. It is located in the Residence R-1 zoning district, the Water Resource Protection District, its Zone II subdistrict and the Wireless Communication Overlay District.
4. According to the elevations and site plan, the average height of the Scituate Middle School will be no greater than 35', and the maximum height no greater than 40' to the roof edge. It meets the height requirements for a residential building, and also meets the required front, side and rear setbacks for the Residence district.
5. The Middle School was reviewed by the Design Review Committee on July 14 and August 11. Their recommendations were addressed and/or incorporated in the design.
6. Property abutting 606 Chief Justice Cushing Highway includes land under the care and custody of the Conservation Commission, the Town Hall, current Fire and Police Stations, and several neighborhoods of single family homes. No traffic will be routed to the Cedarwood Rd. neighborhood. The adjoining premises will be protected against any detrimental or offensive uses of the site. The site plan meets the standard of review of Scituate Zoning Bylaw Section 770.6 Paragraph A.
7. The Scituate Zoning Bylaw Section 760.6, Table of Minimum Parking Requirements, requires one parking space for every 200 sq. ft. of gross floor area for an exempt educational use. The requirement for the auditorium, based on 750 seats, would be 283. Based on 130,000 sq. ft. of building area, this would result in a parking requirement of 1,133 spaces for the new Middle School and auditorium.

With the addition of the Middle School, there will be an additional 80 staff at the site. Based on a standard 1.5x factor, this would result in the need for an additional 120 parking spaces.

After construction there will be a net increase of 153 parking spaces which exceeds the estimated need. While it only serves Grades 7 and 8, there are currently 86 spaces at the Gates Intermediate School. Parking appears to be sufficient for the proposed use.

Bus and car traffic from the Middle and High Schools will be separated. The public driveway for the Middle School will enter from First Parish Rd. and the driveway for the High School, from Chief Justice Cushing Highway. All bus traffic for both schools will use the Chief Justice Cushing Highway entrance. There will be room for 16 buses to queue at the High School at the start and end of the school day. Entrances at Chief Justice Cushing Highway and First Parish Rd. will be redesigned to clearly channel left- and right-hand turning vehicles into appropriate lanes. There will be a new stacking lane for vehicles exiting the High School.

Chief Justice Cushing Highway and First Parish Rd. is a major, signalized intersection on a state highway. Residents have expressed concern about children crossing in this location. The Town has met with State representative Jim Cantwell and transportation officials to determine what improvements should be pursued.

The site plan meets the standard of review of Scituate Zoning Bylaw Section 770.6 B. and C. for traffic safety, ease of access, pedestrian safety, minimizing glare and access for service and emergency vehicles.

8. The property is on Town Sewer. The plans have been reviewed by the Fire Department and DPW Water Division. The site plan meets the standard of review of Scituate Zoning Bylaw Section 770.6 D. for adequacy of methods of waste disposal, adequacy of water supply and fire- fighting facilities on the site.
9. The drainage design by Nitsch Engineering was based on seven stormwater watershed areas discharging to four design points. Post-development peak discharge volume and rates will not exceed pre-development volume and rates. The site plan and stormwater report were reviewed by the Planning Board's consulting engineer, Josh Bows, P.E. of Merrill Associates. The plans were modified in response to his comments.

The area where construction will occur is in the Water Resource Protection District and Zone II subdistrict, and within the buffer to a Vernal Pool. Because of the proximity to these critical areas, the stormwater system was designed to protect water quality by reducing total suspended solids by at least 90%, as required by the Zoning Bylaw. It will infiltrate water through a low impact development approach including six bioretention basins including a 24" media filter, deep sump and hooded catchbasins, catch basin inserts and three underground infiltration chambers which will treat runoff and maximize infiltration to groundwater. Stone cobble will be used to surface seating areas near the front of the building and grasscrete will be used in the emergency vehicle access.

Within the Water Resource Protection District, slopes greater than 4:1 cannot be created except if associated with new road construction. There is a slope of approximately 3:1 northeast of the walkway from the High School to Cedarwood Rd. This is necessary to meet accessibility requirements because of the approximate 650' length of the walkway.

The applicant is willing to accept conditions on the storage of salt, chemical de-icing compounds, and petroleum products, and a prohibition on vehicle washing on the site. The site plan meets the standard of Scituate Zoning Bylaw Section 770.6 E. and F. for adequacy of stormwater management and control of toxic and hazardous materials in the Zone II subdistrict and Water Resource Protection District.

10. The site will be screened by existing trees on the north, east and west sides. Bike racks will be provided for 5% of the projected Middle School population. There will be numerous pedestrian crossings across the driveways and through parking areas. An erosion and sedimentation control plan will be used and topsoil will be re-used on the site. The site plan meets the standards of Scituate Zoning Bylaw Section 770.6 G., H. and I.
11. The proposed public parking areas are adequately buffered and shaded. There is a minimum of one shade tree per ten spaces of a caliper of at least 2 ½ inches dbh as required by the Zoning Bylaw. Outdoor lighting is no higher than 20 feet tall and is specified to contain cut off fixtures to minimize glare and light spillover. The site plan meets the standards of Scituate Zoning Bylaw Section 770.6 I and J.
12. The site plan entitled Scituate Middle School Scituate, MA, Permitting Set dated July 29, 2015 with revisions through September 24, 2015 by Jennifer Johnson, P.E. of Nitsch Engineering for Dore and Whittier Architects, Inc. meets the requirements of the Town of Scituate Zoning Bylaw Section 770.6, Site Plan Review Standards of Review to a degree consistent with reasonable use of the site for the purpose permitted by the regulations of the district in which the land is located.

The Board voted unanimously to approve the site plan for the Scituate Middle School consisting of Permitting Documents entitled Scituate Public Safety, including all sheets listed on the attachment, stamped and signed by Jennifer L. Johnson, P.E. of Nitsch Engineering for Dore & Whittier Architects, Inc. subject to the following conditions:

1. The project will conform to the approved plans listed above for the Scituate Middle School, the stormwater report and responses to the comments from the Town's peer review engineer. If the building footprint is modified, the applicant's engineer shall certify the adequacy of the stormwater management system for the additional impervious surface area. Any further changes from these plans other than to incorporate the conditions below will require approval of the Planning Board.
2. Six reduced sets of 11 x 17 prints and pdf's shall be provided to the Planning Board prior to the pre-construction conference for distribution to Town departments and for the files.
3. The building shall meet all requirements of the Massachusetts state building code.
4. Materials and details of construction shall meet all requirements of the DPW, Board of Health, Fire Department, Conservation Commission, Building Department and Commission on Disabilities. Where this Site Plan Administrative Review requires approval, permitting or licensing from any local, state or federal agency, such required approval, permitting or licensing is deemed a condition of the Town of Scituate Planning Board's approval of this site plan. All necessary permits and approvals must be received prior to construction.
5. Based on the recommendations of the Traffic Impact and Access Study, the applicant should continue to explore alternatives for improvements to the driveway behind the Town Hall to determine if improvements are warranted in the interest of traffic safety.
6. Prior to scheduling the pre-construction conference the following changes shall be made to the plan:
  - a. Locations for snow storage shall be approved by the Conservation Commission and DPW and shown on the plan.
  - b. Trees shall be located a minimum of 10' from utility lines to avoid problems with roots.

- c. Topsoil will be re-used on the site to the greatest extent possible. Additional topsoil shall be used as required to loam and seed disturbed areas.
  - d. Improvements to the pedestrian only access to Cedarwood Rd. such as appropriate hardening or similar materials at the width necessary to support emergency vehicles shall be added. Breakaway or removable bollard(s) shall be installed at the Cedarwood Rd. entrance to prevent access by other vehicles.
7. Prior to scheduling the pre-construction conference the following notes shall be added to the plan:
- a. Gasoline, chemical abrasives used for removal of snow and ice on roads, commercial fertilizers, fuel oil and other hazardous materials shall be stored in the smallest quantities possible and in above-ground tanks or containment designed and operated as required by Scituate Zoning Bylaw Section 520.6. The use of sodium chloride is not permitted by the Long Term Pollution Prevention Plan.
  - b. As recommended by the Traffic Impact and Access Study, vegetation to the northeast corner of First Parish Rd. along the existing High School driveway shall be kept trimmed to maximize the sight distance available.
  - c. Any required approval of changes to curb cuts on Chief Justice Cushing Highway or First Parish Rd. must be obtained from Mass. DOT and the Scituate DPW, respectively, prior to the start of construction.
  - d. The DPW shall be notified prior to the start of work within the ROW of First Parish Road. Any work within this ROW shall be coordinated with the DPW. Other than as required by this work, there shall be no parking or idling of vehicles on First Parish Road during construction.
  - e. Per the request of the Fire Chief, yellow pavement markings shall be used to designate all fire lanes.
  - f. All light fixtures shall be shielded to prevent light trespass onto adjacent properties. The lighting in the parking lots shall be programmable as to on-off and intensity.

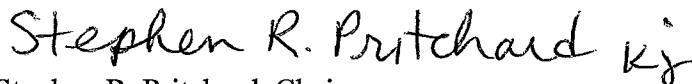
### **Construction**

8. A pre-construction conference will be required prior to the start of construction including the Town's consulting engineer, a representative of the DPW, the Conservation and Natural Resource Officer, the site contractor and the Town Planner.
9. Prior to scheduling the pre-construction conference, the applicant shall:
  - Meet with the Fire Chief to determine final locations for fire safety signage;
  - The applicant shall provide a check to cover inspections by the consulting engineer;
  - A schedule of construction activities and the final Storm Water Pollution Prevention Plan (SWPPP) shall be given to the Town Planner.
10. The existing entrance off First Parish Rd. shall be used as the construction entrance.
11. Stormwater control during construction shall be maintained according to the Long Term Pollution Prevention Plan and Stormwater Operation and Maintenance Plan dated July 1, 2015 and the SWPPP. All clearing and earth moving operations shall only occur while erosion and sedimentation control measures are in place. Water and sediment shall not be discharged into the subsurface infiltration areas and bioretention areas until the site is fully

stabilized.

12. The Town Planner is to be notified when erosion control measures are in place, when construction begins and when construction is completed. If deemed necessary by the Town Planner in consultation with the DPW Engineering staff and the Conservation and Natural Resource Officer, temporary sedimentation basins, check dams, silt socks and or noise and dust control may be required in addition to the erosion control measures shown on the plan. All erosion control measures shall remain until the Town Planner and Conservation and Natural Resource Officer determine that the danger of erosion or sedimentation no longer exists.
13. Construction shall proceed according to the applicant's construction phasing plans.
14. Exterior construction work or excessively noisy interior work shall not begin prior to 7 AM weekdays and 8 AM on Saturday and shall cease no later than 10 PM or sunset whichever is earlier. Interior construction work can continue until 10 PM.
15. The Long Term Pollution Prevention Plan and Stormwater Operation and Maintenance Plan dated July 1, 2015 are attached to and a part of this approval. Prior to application for a Certificate of Occupancy, a copy of a contract for annual required inspection and maintenance of stormwater structures shall be provided to the Planning Department.
16. An As- Built Plan stamped by a registered surveyor and reviewed by the registered professional engineer who designed the system shall be submitted to the Planning Board within 30 days of completion of the work. This plan shall include the construction conditions of the stormwater management system, grading, building and driveway. The As-Built Plan must be submitted prior to obtaining a Certificate of Completion for the Stormwater Permit and it must be found in compliance with the approved permit. All grading and landscaping must be complete prior to the as-built submittal.

Very truly yours,

kj

Stephen R. Pritchard, Chairman

SRP/LH/kj

cc: Patricia Vinchesi, Town Administrator  
John E. McCarthy, Superintendent of Schools  
Paul Donlan, Director of Business and Finance, Scituate Public Schools  
Richard Hebert, Chairman, School Committee  
Robyn Levirne, Chairman, School Building Committee  
Edward DiSalvio, Chairman, Public Building Commission  
Shane Nolan, Daedalus Projects Inc.  
Jon Richardson, Dore and Whittier Inc.  
Donald Walter, Dore and Whittier, Inc.  
Jennifer L. Johnson, Nitsch Engineering  
Neil Duggan, Building Commissioner  
Kevin Cafferty, Director, DPW  
Jennifer Keefe, Director of Public Health  
Patrick Gallivan, Conservation & Natural Resources Officer  
Planning Board

## PLAN SHEETS and SUBMISSIONS – SCITUATE MIDDLE SCHOOL

### Plans:

**C0.0** 'Notes, Legend, & Abbreviations' : Planning Set– 7/1/15

**C1.0 (Overall)** 'Utility Demolition Plan' : Planning Set- 7/1/15

**C2.0 (Overall)** 'Site Utility Plan' : Planning Set- 7/1/15 Revised **(Overall)** 7/30/15  
(Permit Set)

**\*C2.0 & C2.1** 'Site Utility Plan – DRAFT' : 90% Construction Document Submission  
(for Peer Review) 8/21/15

**C2.1** 'Drain & Sewer Rim and Invert Tables' : Planning Set- 7/1/15 Revised  
7/30/15 (Permit Set)

**C3.0 (Overall)** 'Sedimentation & Erosion Control Plan' : Planning Set-  
7/1/15 Revised **(Overall)** 7/30/15 (Permit Set)

**C4.0-C4.1** 'Sedimentation & Erosion Control Details' : Planning Set- 7/1/15

**C4.2-C4.4** 'Site Utility Details' : Planning Set- 7/1/15

**\*C6.2 & 6.5** 'Site Utility Details – DRAFT' : 90% Construction Document  
Submission (for Peer Review) 8/21/15

L1.00 Overall Site Plan	7/1/15
L1.01 – L1.06 Materials Plans	7/1/15
L2.01 – L2.06 Grading Plans	7/1/15
L3.00 – Fire Chief Clearances Plan/Planting Plan	
L3.01 – L3.06 Planting Plans	6/18/15
L4.01 – L4.02 Site Details	7/1/15

*\*Plans indicated as "Overall" were originally submitted to the Planning Board as one (1) small scale overall site plan for the original Planning Set submission. Following the Planning Set submission, the "Overall" plans were broken into six (6) larger scale site plans.. The plans indicated in red are revised versions of the original plan set forwarded to Merrill for Peer Review.*





## **LONG-TERM POLLUTION PREVENTION PLAN AND STORMWATER OPERATION AND MAINTENANCE PLAN**

Scituate Middle School, Scituate, MA

### **TABLE OF CONTENTS**

<b>1.0</b>	<b>INTRODUCTION .....</b>	<b>1</b>
<b>2.0</b>	<b>LONG-TERM POLLUTION PREVENTION PLAN .....</b>	<b>2</b>
2.1	Source Control Practices for Pollution Prevention .....	2
2.2	Storage of Hazardous Materials .....	2
2.3	Storage of Waste Products .....	2
2.4	Spill Prevention and Response .....	2
2.5	Minimize Soil Erosion .....	3
2.6	Maintenance of Lawns, Gardens, and other Landscaped Areas .....	3
2.7	Management of Deicing Chemicals and Snow .....	3
2.8	Coordination with other Permits and Requirements .....	3
<b>3.0</b>	<b>STORMWATER MANAGEMENT SYSTEM OPERATION AND MAINTENANCE PLAN 4</b>	
3.1	Introduction .....	4
3.2	Stormwater Operation and Maintenance Requirements .....	4
	Deep Sump and Hooded Catch Basins .....	4
	Area Drains .....	5
	Catch Basin Inserts .....	5
	Water Quality Units (Proprietary Separators) .....	5
	Grass Channels .....	5
	Bioretention Basins .....	5
	Subsurface Infiltration Structures .....	6
	Stormwater Outfalls .....	6
	Level Spreaders .....	6
3.3	Street Sweeping .....	6
3.4	Repair of the Stormwater Management System .....	6
3.5	Reporting .....	7
	<b>STORMWATER MANAGEMENT SYSTEM INSPECTION FORM.....</b>	<b>8</b>

### **ATTACHMENTS**

Attachment A – Catch Basin Insert Operation and Maintenance Procedure

## **1.0 INTRODUCTION**

---

The purpose of this document is to specify the pollution prevention measures and stormwater management system operation and maintenance for Scituate Middle School. The Owner shall implement the management practices outlined in this Manual and proactively conduct operations at the project site in an environmentally responsible manner. Compliance with this Manual does not in any way dismiss the Owner, property manager, or occupants from compliance with other applicable Federal, State or local laws.

Owner: Town of Scituate

This Document has been prepared in compliance with Standards 4 and 9 of the 2008 Massachusetts Department of Environmental Protection (MassDEP) Stormwater Management Standards, which state:

### Standard 4:

The Long Term Pollution Prevention Plan shall include the proper procedures for the following:

- Good housekeeping
- Storing materials and waste products inside or under cover
- Vehicle washing
- Routine inspections of stormwater best management practices
- Spill prevention and response
- Maintenance of lawns, gardens, and other landscaped areas
- Pet waste management
- Operation and management of septic systems
- Proper management of deicing chemicals and snow

### Standard 9:

The Long-Term Operation and Maintenance Plan shall at a minimum include:

- Stormwater management system(s) owner(s)
- The party or parties responsible for operation and maintenance, including how future property owners shall be notified of the presence of the stormwater management system and the requirement for operation and maintenance
- The routine and non-routine maintenance tasks to be undertaken after construction is complete and a schedule for implementing those tasks
- A plan that is drawn to scale and shows the location of all stormwater BMPs in each treatment train along with the discharge point
- A description of public safety features
- An estimated operations and maintenance budget

## **2.0 LONG-TERM POLLUTION PREVENTION PLAN**

---

### **2.1 Source Control Practices for Pollution Prevention**

The Owner and occupants should follow good housekeeping procedures at the project site to reduce the possibility of accidental releases and to reduce safety hazards, which shall include but not be limited to the following:

- Proper handling, storage, disposal, and recycling of hazardous materials and waste products
- Proper handling, storage and inventory of household chemicals
- Prompt cleanup and removal of spills and releases

### **2.2 Storage of Hazardous Materials**

To prevent leaks and spills, keep hazardous materials and waste products under cover or inside. Use drip pans or spill containment systems to prevent chemicals from entering the drainage system. Inspect storage areas for materials and waste products at least once per year to determine amount and type of the material on site, and if the material requires disposal.

Securely store liquid petroleum products and other liquid chemicals in federally- and state-approved containers. Restrict access to maintenance personnel and administrators.

### **2.3 Storage of Waste Products**

Collect and store all waste materials in securely lidded dumpster(s) or other secure containers as applicable to the material. Keep dumpster lids closed and the areas around them clean. Do not fill the dumpsters with liquid waste or hose them out. Sweep areas around the dumpster regularly and put the debris in the garbage, instead of sweeping or hosing it into the parking lot. Legally dispose of collected waste on a regular basis.

Segregate liquid wastes, including motor oil, antifreeze, solvents, and lubricants, from solid waste and recycle through hazardous waste disposal companies, whenever possible. Separate oil filters, batteries, tires, and metal filings from grinding and polishing metal parts from common trash items and recycle. These items are not trash and are illegal to dump. Contact a hazardous waste hauler for proper disposal to a hazardous waste collection center.

### **2.4 Spill Prevention and Response**

The Owner shall implement spill response procedures for releases of significant materials such as fuels, oils, or chemical materials onto the ground or other area that could reasonably be expected to discharge to surface or groundwater.

- For minor spills, keep fifty (50) gallon spill control kits and Speedy Dry at all shop and work areas.
- Immediately contact applicable Federal, State, and local agencies for reportable quantities as required by law.
- Immediately perform applicable containment and cleanup procedures following a spill release.
- Promptly remove and dispose of all material collected during the response in accordance with Federal, State and local requirements. A licensed emergency response contractor may be required to assist in cleanup of releases depending on the amount of the release, and the ability of the Contractor to perform the required response.

- Reportable quantities of chemicals, fuels, or oils are established under the Clean Water Act and enforced through Massachusetts Department of Environmental Protection (DEP).

## **2.5 Minimize Soil Erosion**

Soil erosion facilitates mechanical transport of nutrients, pathogens, and organic matter to surface water bodies. Repair all areas where erosion is occurring throughout the project site. Stabilize bare soil with riprap, seed, mulch, or vegetation.

## **2.6 Maintenance of Lawns, Gardens, and other Landscaped Areas**

As required by the Town of Scituate, storage of fertilizers and/or animal manure will be provided in covered and/or contained structures designed to prevent the generation and escape of contaminated runoff or leachate.

## **2.7 Management of Deicing Chemicals and Snow**

The qualified contractor selected for snow plowing and deicing shall be made fully aware of the requirements of this section.

No road salt (sodium chloride) shall be stored on-site. The use of magnesium chloride de-icing product with a 0.5 to 1.0 percent sodium chloride mix for snow and ice treatment is permitted. The product shall be stored in a locked room inside the building and shall be used at exterior stairs and walkways. The snow plow contractor shall adhere to these magnesium chloride use and storage requirements.

During typical snow plowing operations, snow shall be pushed to the designated snow removal areas noted on the Snow Storage Plan (Figure 2). Snow shall not be stockpiled in wetland resource areas or the 100-foot Buffer Zone, catch basins, or bioretention basins, . In severe conditions where snow cannot be stockpiled on site, the snow shall be removed from the site and properly disposed of in accordance with DEP Guideline BRP601-01.

Before winter begins, the property owner and the contractor shall review snow plowing, deicing, and stockpiling procedures. Areas designated for stockpiling should be cleaned of any debris. Street and parking lot sweeping should be followed in accordance with the Operation and Maintenance Plan.

## **2.8 Coordination with other Permits and Requirements**

Certain conditions of other approvals affecting the long term management of the property shall be considered part of this Long Term Pollution Prevention Plan. The Owner shall become familiar with those documents and comply with the guidelines set forth in those documents.

### **3.0 STORMWATER MANAGEMENT SYSTEM OPERATION AND MAINTENANCE PLAN**

#### **3.1 Introduction**

This Operation and Maintenance Plan (O&M Plan) for Scituate Middle School is required under Standard 9 of the 2008 MassDEP Stormwater Handbook to provide best management practices for implementing maintenance activities for the stormwater management system in a manner that minimizes impacts to wetland resource areas.

The Owner shall implement this O&M Plan and proactively conduct operations at the site in an environmentally responsible manner. Compliance with this O&M Plan does not in any way dismiss the Owner from compliance with other applicable Federal, State or local laws.

Routine maintenance during construction and post-development phases of the project, as defined in the Operation and Maintenance Plan, shall be permitted without amendment to the Order of Conditions. A continuing condition in the Certificate of Compliance shall ensure that maintenance can be performed without triggering further filings under the Wetlands Protection Act.

All stormwater best management practices (BMPs) shall be operated and maintained in accordance with the design plans and the Operation and Maintenance Plan approved by the issuing authority. The Owner shall:

- a. Maintain an operation and maintenance log for the last three years, including inspections, repairs, replacement and disposal (for disposal the log shall indicate the type of material and the disposal location). This is a rolling log in which the responsible party records all operation and maintenance activities for the past three years.
- b. Make this log available to MassDEP and the Conservation Commission upon request; and
- c. Allow members and agents of the MassDEP and the Conservation Commission to enter and inspect the premises to evaluate and ensure that the Owner complies with the Operation and Maintenance requirements for each BMP.

#### **3.2 Stormwater Operation and Maintenance Requirements**

Inspect and maintain the stormwater management system as directed below. Repairs to any component of the system shall be made as soon as possible to prevent any potential pollutants from entering the resource areas.

##### **Deep Sump and Hooded Catch Basins**

Inspect catch basins four times per year, including after the foliage season. Other inspection and maintenance requirements include:

- Remove organic material, sediment and hydrocarbons four times per year or whenever the depth of deposits is greater than or equal to one half the depth from the bottom of the invert of the lowest pipe in the basin.
- Always clean out catch basins after street sweeping. If any evidence of hydrocarbons is found during inspection, the material immediately remove using absorbent pads or other suitable measures and dispose of legally. Remove other accumulated debris as necessary.
- Transport and disposal of accumulated sediment off-site shall be in accordance with applicable local, state and federal guidelines and regulations.

#### Area Drains

Inspect area drains at least once per month and remove debris from the grate. Clean out accumulated sediments at least once per year and more frequently as necessary.

#### Catch Basin Inserts

Maintain water quality units according to the recommendations set forth by the manufacturer. Refer to Attachment A for the maintenance procedure.

#### Water Quality Units (Proprietary Separators)

Maintain water quality units according to the recommendations set forth by the manufacturer. General inspection and maintenance procedures for proprietary devices are provided below:

- Inspect units following completion of construction, prior to being put into service.
- Inspect units at least twice per year following installation and no less than once per year thereafter.
- Inspect units immediately after any oil, fuel or chemical spill.
- All inspections shall include checking the oil level and sediment depth in the unit. Removal of sediments/oils shall occur per manufacturer recommendations.
- A licensed waste management company shall remove captured petroleum waste products from any oil, chemical or fuel spills and dispose.
- OSHA confined space entry protocols shall be followed if entry into the unit is required.

#### Grass Channels

Grass channels shall be inspected twice per year during the first year after construction. In subsequent years, the swales shall be inspected annually and after rain events greater than 3 inches in 24 hours. Inspection and maintenance procedures for drainage channels are provided below:

- Inspect the riprap on the channel bottom and side slopes for signs of erosion and formation of rills and gullies. Replace riprap as necessary.
- Remove accumulated trash and debris.
- Remove sediment as needed. Use hand methods (i.e. a person with a shovel) when cleaning to minimize disturbance to vegetation and underlying soils.

#### Bioretention Basins

Perform annual maintenance of all components of the bioretention basins, including plants, soil, and mulch. Table 1, below, outlines recommended maintenance activities.

**Table 1. Bioretention area maintenance recommendations**

Location	Description	Frequency	Time of Year
Surface	Inspect and remove trash	Monthly	Year round
Soil	Inspect and repair erosion	Monthly	Year round
Organic Layer	Remulch void areas	Annually	Spring
	Remove previous mulch layer before applying new layer (optional)	Annually	Spring
Plants	Water vegetation at end of day for 14 consecutive days after planting	Immediately after planting	As needed
	Remove and replace all dead and diseased vegetation that cannot be treated	Annually	Spring
	Treat all diseased trees and shrubs	As needed	Variable

During and after storm events, record the length of time standing water remains in the bioretention areas. If the time is greater than 72 hours, thoroughly inspect the basins for signs of clogging and develop a corrective action plan. The corrective action plan, prepared by a qualified professional, will outline procedures to restore infiltrative function. The owner of the site shall take immediate action to implement these corrective measures.

#### Subsurface Infiltration Structures

Inspect subsurface infiltration structures twice per year. Inspect the inlets and observation ports to determine if there is accumulated sediment within the system. Remove all debris and accumulated sediment that may clog the system.

#### Stormwater Outfalls

Inspect flared end sections and associated riprap spillways at least once per year and after major storm events (rainfall totals greater than 2.5 inches in 24 hours) to ensure that the stability of the outlet area is maintained. Keep the outfall area clear of debris such as trash, branches, and sediment. Make repairs immediately if riprap displacement or downstream channel scour is observed.

#### Level Spreaders

Inspect level spreaders regularly, especially after major storm events (rainfall totals greater than 2.5 inches in 24 hours). Repair any erosion or low spots in the level spreader.

### **3.3 Street Sweeping**

Perform street sweeping at least twice per year, whenever there is significant debris present on roads and parking lots. Street sweeping shall occur in the spring and fall. Sweepings must be handled and disposed of properly according to the Hingham/Rockland Conservation Commissions.

### **3.4 Repair of the Stormwater Management System**

The stormwater management system shall be maintained. The repair of any component of the system shall be made as soon as possible to prevent any potential pollutants including silt from entering the resource areas or the existing closed drainage system.

### **3.5 Reporting**

The Owner shall maintain a record of drainage system inspections and maintenance (per this Plan) and submit a yearly report to the Hingham/Rockland Conservation Commissions.



**STORMWATER MANAGEMENT SYSTEM INSPECTION FORM**

---

**Scituate Middle School  
Scituate, MA**

**Inspected by: \_\_\_\_\_  
Date: \_\_\_\_\_**

<b>Component</b>	<b>Status/Inspection</b>	<b>Action Taken</b>
Deep Sump Catch Basins, Area Drains and Drain Manholes		
Bioretention Basins		
Subsurface Infiltration Systems		
Water Quality Units		
Catch Basin Inserts		
Grass Channels		
Stormwater Outfalls & Level Spreaders		
General site conditions – evidence of erosion, etc.		

**SUBMIT COPIES OF STORMWATER MANAGEMENT SYSTEM INSPECTION FORM TO THE  
SCITUATE CONSERVATION COMMISSIONS WITH THE YEARLY REPORT.**

