Stormwater Operation and Maintenance Manual

For

Site Plan

1034 Massachusetts Avenue
Boxborough, MA

August 22, 2016

Responsible Party:

Applicant: Phaneuf Associates
1034 Massachusetts Ave
Boxborough, MA 01719

SM-5648

Stamski And McNary, Inc.
Engineering - Planning – Surveying
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Long Term Operation and Maintenance Plan

Long Term Operation and Maintenance Plan of Stormwater Controls:

Pavement Sweeping:
It is recommended that the pavement shall be properly swept monthly, with concentrations in the spring and the fall. It is noted that the activities associated with the existing use may require sweeping on a daily or weekly basis within portions of the pavement areas.

Rain Garden:
The garden shall be inspected after every major storm event for the first three months after construction, and inspected as stated below thereafter. Rain gardens require careful attention while plants are being established and seasonal landscaping maintenance thereafter.

Seasonal landscaping maintenance includes, but is not limited to:

-Inspecting and removing trash monthly
-Inspecting soil and repairing eroded areas monthly
-Top dress stone annually in the spring
-Removing dead vegetation annually in the spring or fall
-Replacing dead vegetation annually in the spring
-Pruning annually in the spring or fall
-Replacing entire media and all vegetation as needed in the late spring or early summer
-Re-stone void areas as needed
-Side slopes of the channel shall be inspected for erosion. All eroded areas found shall receive 6" of loam and be reseeded per original design plan. Areas of continued erosion shall be stabilized with 3" minus riprap.
-If there is ponding due to clogging, immediately address the reasons for the ponding
-Because the soil medium filters contaminants from the runoff, the cation exchange capacity of the soil media will eventually be exhausted. Thus, it is necessary to replace the soil media to prevent contaminants from migrating to the groundwater, as necessary. Using small shrubs and plants instead of larger trees will make it easier to replace the media with clean material when needed.

Siltation Collection Area
Inspect the siltation collection area after the first several rainfall events, after all major storms, and on regularly scheduled dates every month. If the build up of sediment reaches the removal line, the sediment and crushed stone shall be removed. The silt sock on the perforated pipe shall be replaced and clean crushed stone (1½-3" diameter) shall be placed over the perforated pipes. Replace the pipe as needed.

Emergency Contacts:
In the event of a hazardous materials spill on the site the following parties shall be contacted:
Fire Department: ph: 978-264-1770

Records:
The owner shall maintain an inspection log of all elements of the storm water management plan. The owner shall maintain a maintenance log documenting the inspection and maintenance of the drainage structures. A copy of the erosion control and storm water maintenance plan and inspection logs shall be kept onsite at all times.

Responsibility Party:
The owner shall be responsible for the inspection and maintenance of all stormwater controls.

Illicit Discharges: THERE WILL BE NO ILLICIT DISCHARGES ON SITE.

Name: _____

Signature: _____

Date: _____

Operation and Maintenance Sample Inspection Log

Site Plan at 1034 Mass Ave.

Operation and Maintenance Inspection Log

Year: _____

Inspection Items:	Frequency:
Pavement Sweeping	**Daily or Weekly**
Siltation Collection Area	**Monthly**
Rain Garden	**Monthly**

Pavement Sweeping:

Previous Inspection Date: _____
Inspection Date: _____
Inspector Name: _____
Comments:

Action Required:

Siltation Collection Area

Previous Inspection Date: _____
Inspection Date: _____
Inspector Name: _____
Comments:

Action Required:

Rain Garden

Previous Inspection Date: _____
Inspection Date: _____
Inspector Name: _____
Comments:

Action Required: