

**Stormwater Pollution Prevention Plan (SWPPP)  
Contract Number 75587**

**For Construction Activities At:**

Roadway Reconstruction Project  
Littleton Road (Route 110)  
Westford, Massachusetts  
Project File Number: 604809-12  
Federal Aid Project Numbers:  
CM-002s(433)X  
HIS-002S(433)X  
STP-002S(433)X

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**SWPPP Preparation Date:**

**July 22, 2013,**

**Estimated Project Dates:**

**Project Start Date: July 29, 2013  
Project Completion Date: November 15, 2015**

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**SECTION 1: CONTACT INFORMATION/RESPONSIBLE PARTIES**

**1.1 Operator(s) / Subcontractor(s)**

**Operator(s):**

E.H. Perkins Construction  
Joe Curtin, PE  
PO Box 752  
Hudson, MA 01749  
508 358 6161

Contractor hired by Owner and responsible for roadway reconstruction (earth disturbance activities) and daily implementation of SWPPP and other permit and contract requirements.

MassDOT – Highway Division  
10 Park Plaza, Room 4260  
Boston, MA 02116

**Subcontractor(s):**

Soni Erosion Control:  
419 Ashby West Road  
Fitchburg, MA 01420  
978 345 0565

Lazaro Paving  
800 Mt Laurel Circle  
Shirley, MA 01464  
978 425 2551

Antonellis Construction  
26 Lenglen Road  
Newton, MA

KA Honkala Tree Service  
35 Bacon Street  
Westminster, MA 01473

Northeast Traffic  
8 Scobee Circle  
Plymouth, MA 02360  
978 495 2608

Garrity Asphalt Reclaiming  
22 Peters Road  
Bloomfield, CT 06002

**Emergency 24-Hour Contact:**

E. H. Perkins Construction  
Joe Curtin, PE  
978-875-0067  
drpcurtin@comcast.net

**1.2 Stormwater Team**

NPDES Inspector:  
Environmental Monitor  
Mary Trudeau, CPESC  
141 Lowell Street  
Lexington, MA 02420  
781 424 4768  
marytrudeau@ymail.com

Project Engineer  
Supervisor  
Joe Curtin, PE  
EH Perkins Construction  
PO Box 752  
Hudson, MA 01752  
978 422 8812

## SECTION 2: SITE EVALUATION, ASSESSMENT, AND PLANNING

### 2.1 Project/Site Information

#### Project Name and Address

Project/Site Name: [Roadway Reconstruction / Related Work on Sections of Littleton Road](#)

Project Street/Location: Littleton Road, Westford, MA

City: [Westford](#)

State: [Massachusetts](#)

ZIP Code: [01886](#)

County or Similar Subdivision: [Middlesex](#)

#### Project Latitude/Longitude

(Use **one** of three possible formats, and specify method)

Latitude:

1. 42 d, 34 m, 6 s \_\_\_\_\_" N (degrees, minutes, seconds)

2.   °   '   " N (degrees, minutes, decimal)

3.   ° N (decimal)

Longitude:

1. 71 d, 25 m, 17 s W (degrees, minutes, seconds)

2.   °   '   " W (degrees, minutes, decimal)

3.   ° W (decimal)

Method for determining latitude/longitude:

USGS topographic map (specify scale:   :50,000)     EPA Web site     GPS

Other (please specify): \_\_\_\_\_

Horizontal Reference Datum:

NAD 27     NAD 83 or WGS 84     Unknown

If you used a U.S.G.S topographic map, what was the scale?   1:50,000\_\_\_\_\_

#### Additional Project Information

Is the project/site located on Indian country lands, or located on a property of religious or cultural significance to an Indian tribe?  Yes     No

If yes, provide the name of the Indian tribe associated with the area of Indian country (including the name of Indian reservation if applicable), or if not in Indian country, provide the name of the Indian tribe associated with the property:

If you are conducting earth-disturbing activities in response to a public emergency, document the cause of the public emergency (e.g., *natural disaster, extreme flooding conditions*), information substantiating its occurrence (e.g., *state disaster declaration*), and a description of the construction necessary to reestablish effective public services: **NA**

Are you applying for permit coverage as a "federal operator" as defined in Appendix A of the 2012 CGP?  Yes     No

**2.2 Discharge Information**

Does your project/site discharge storm water into a Municipal Separate Storm Sewer System (MS4)? **XX** Yes  No

Are there any surface waters that are located within 50 feet of your construction disturbances? **XX** Yes  No

Portions of the proposed work are located within one hundred feet of Bordering Vegetated Wetlands. No alteration of wetlands is proposed, and there are no perennial waterways within the subject locus.

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**Table 1 – Names of Receiving Waters**

Name(s) of the first surface water that receives stormwater directly from your site and/or from the MS4 (note: multiple rows provided where your site has more than one point of discharge that flows to different surface waters)
1. <b>Vine Brook</b>
2.
3.
4.
5.
6.

[Include additional rows as necessary.]

**Table 2 – Impaired Waters / TMDLs** (Answer the following for each surface water listed in Table 1 above)

	Is this surface water listed as "impaired"?	If you answered yes, then answer the following:			
		What pollutant(s) are causing the impairment?	Has a TMDL been completed?	Title of the TMDL document	Pollutant(s) for which there is a TMDL
1.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<b>Vine Brook</b>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	<b>Summary of Waterbody Assessment TMDL Status in Westford, Massachusetts</b>	
2.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
3.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
4.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
5.	<input type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input type="checkbox"/> NO		

Describe the method(s) you used to determine whether or not your project/site discharges to an impaired water: [Notice of Intent \(WPA Massachusetts and TMDL data base for watersheds\)](#)

**Table 3 – Tier 2, 2.5, or 3 Waters** (Answer the following for each surface water listed in Table 1 above)

	Is this surface water designated as a Tier 2, Tier 2.5, or Tier 3 water? (see Appendix F)	If you answered yes, specify which Tier (2, 2.5, or 3) the surface water is designated as?
1.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Vine Brook
2.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
3.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
4.	<input type="checkbox"/> YES <input type="checkbox"/> NO	
5.	<input type="checkbox"/> YES <input type="checkbox"/> NO	

### 2.3 Nature of the Construction Activity

#### General Description of Project

Provide a general description of the construction project:

Roadway work is proposed within a 3100 linear foot area along Littleton Road, in Westford. Proposed work includes milling and overlay of existing pavements; full depth reconstruction in areas of roadway widening; installation of vertical granite curb and a 4 to 6 foot wide concrete sidewalk adjacent to the shoulder on both sides of the roadway; new signs and pavement markings; and traffic signal replacements.

The proposed work includes adding an additional travel lane in each direction on Littleton Road (Route 110) from Minot's Corner to Nixon Road in the Town of Westford. The proposed cross section will be two thru lanes in each direction with a center turning lane. At Minot's Corner, a second thru lane will be added to Littleton Road (Route 110) eastbound to match the wider cross-section beyond Boston Road. The new cross section of this leg of the intersection is proposed to be sufficiently wide enough to support two thru lanes in each direction with three left turning lanes (seven total lanes). Since the need for the third left turn lane is not immediate, the northern left turn lane will be a painted median. When the three left turn lanes are warranted, only the paint in the median will be removed. In addition, two lanes will be added to Boston Road, one that can be converted to an additional receiving lane for the three left turn lanes from Littleton Road (Route 11) and the second to provide for double left turn lanes into Littleton Road (Route 110).

Work includes the capping and abandonment of an asbestos covered water main. An alternative, ductile iron, water line will be installed.

Drainage Improvements include replacement of deteriorated inlet structures, replacement of failed culverts and replacement and expansion of the existing drainage system. All of this proposed project work areas are within the existing roadway right-of-way. The project also includes the development of a stormwater basin. This location was selected on the availability of undeveloped land within the catchment area and the design requirements for a stormwater basin.

#### Size of Construction Project

What is the size of the property (in acres), the total area expected to be disturbed by the construction activities (in acres), and the maximum area expected to be disturbed at any one time?

Roadway is approximately 3,100 linear feet of work zone

Total Area of Construction Disturbances (in acres) = 20.0 acres

Maximum Area to be Disturbed at any one time (in acres) = 20.0 acres

#### Construction Support Activities (only provide if applicable)

Describe any construction support activities for the project (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas)

Stockpiling of Earth and Construction Materials within the roadway right-of-way may occur as work progresses. Equipment and vehicles will be staged from upland areas, and there will be no equipment maintenance or long term stockpiling within jurisdictional one hundred foot buffer zone. The Town of Westford will provide upland areas for the longer term storage of materials



and equipment.

**2.4 Sequence and Estimated Dates of Construction Activities**

**Phase I**

Work is scheduled to begin on July 29, 2013, with the installation of erosion controls, and construction will begin shortly after this date.

Phase I construction will include installation of erosion and sedimentation controls prior to the start of work on the site. This includes siltation control fencing with a staked filter sock tube barrier at the Limit of Work line, as well as other key locations along the route of the project. Erosion controls should remain in place throughout the construction process.

Phase 2 construction will commence within one week of the start of the project, and will include commencement of drainage improvements. Deep sump catch basins will replace existing structures, and basin to basin connections have been redesigned to improve storm water management.

Phase 3 will include reconstruction of existing headwalls and culverts as well as the development of the new storm water basin.

Phase 4 construction will include the reconstruction and widening of each roadway and the grading associated with the full depth reconstruction work. Phase 4 construction will include the reclamation of the roadway, and resurfacing with bituminous concrete. Catchbasin grates will be lined prior to the commencement of reclamation. No additional erosion controls are needed for this phase of the project.

Phase 4 construction will include installation of curbing and sidewalks.

Phase 5 construction will include the final paving of the roadway surfaces.

Phase 6 construction will include final grading, loaming and seeding of disturbed roadway shoulders, staging areas and other disturbed surfaces.

Phase 7 will removal of unnecessary erosion and sedimentation controls. Work will be completed by October 31, 2015

**2.5 Allowable Non-Stormwater Discharges**

**List of Allowable Non-Stormwater Discharges Present at the Site**

Type of Allowable Non-Stormwater Discharge	Likely to be Present at Your Site?
Discharges from emergency fire-fighting activities	<input type="checkbox"/> YES <b>XX</b> NO
Fire hydrant flushings	<input checked="" type="checkbox"/> YES NO
Landscape irrigation	<input type="checkbox"/> YES <b>XX</b> NO

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Waters used to wash vehicles and equipment	<input type="checkbox"/> YES <b>XX</b> NO
Water used to control dust	<b>XX</b> YES <input type="checkbox"/> NO
Potable water including uncontaminated water line flushings	<b>XX</b> YES <input type="checkbox"/> NO
Routine external building wash down	<input type="checkbox"/> YES <b>XX</b> NO
Pavement wash waters	<input type="checkbox"/> YES <b>XX</b> NO
Uncontaminated air conditioning or compressor condensate	<input type="checkbox"/> YES <b>XX</b> NO
Uncontaminated, non-turbid discharges of ground water or spring water	<input type="checkbox"/> YES <b>XX</b> NO
Foundation or footing drains	<input type="checkbox"/> YES <b>XX</b> NO
Construction dewatering water	<input checked="" type="checkbox"/> YES NO

**2.6 Site Maps**

Please refer to the SWPPP attachments in Appendix A

**SECTION 3: DOCUMENTATION OF COMPLIANCE WITH OTHER FEDERAL REQUIREMENTS**

**3.1 Endangered Species Protection**

**Eligibility Criterion**

Under which criterion listed in Appendix D are you eligible for coverage under this permit?

**A**                      **B**                       **C**                       **D**                       **E**

For reference purposes, the eligibility criteria listed in Appendix D are as follows:

- Criterion A.** No federally-listed threatened or endangered species or their designated critical habitat(s) are likely to occur in your site's "action area" as defined in Appendix A of this permit.
  
- Criterion B.** The construction site's discharges and discharge-related activities were already addressed in another operator's valid certification of eligibility for your action area under eligibility Criterion A, C, D, E, or F and there is no reason to believe that federally-listed species or federally-designated critical habitat not considered in the prior certification may be present or located in the "action area". To certify your eligibility under this Criterion, there must be no lapse of NPDES permit coverage in the other operator's certification. By certifying eligibility under this Criterion, you agree to comply with any effluent limitations or conditions upon which the other operator's certification was based. You must include in your NOI the tracking number from the other operator's notification of authorization under this permit. If your certification is based on another operator's certification under Criterion C, you must provide EPA with the relevant supporting information required of existing dischargers in Criterion C in your NOI form.
  
- Criterion C.** Federally-listed threatened or endangered species or their designated critical habitat(s) are likely to occur in or near your site's "action area," and your site's discharges and discharge-related activities are not likely to adversely affect listed threatened or endangered species or critical habitat. This determination may include consideration of any stormwater controls and/or management practices you will adopt to ensure that your discharges and discharge-related activities are not likely to adversely affect listed species and critical habitat. To make this certification, you must include the following in your NOI: 1) any federally listed species and/or designated habitat located in your "action area"; and 2) the distance between your site and the listed species or designated critical habitat (in miles). You must also include a copy of your site map with your NOI.
  
- Criterion D.** Coordination between you and the Services has been concluded. The coordination must have addressed the effects of your site's discharges and discharge-related activities on federally-listed threatened or endangered species and federally-designated critical habitat, and must have resulted in a written concurrence from the relevant Service(s) that your site's discharges and discharge-related activities are not likely to adversely affect listed species or critical habitat. You must include copies of the correspondence between yourself and the Services in your SWPPP and your NOI.
  
- Criterion E.** Consultation between a Federal Agency and the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service under section 7 of the ESA has been concluded. The consultation must have addressed the effects of the construction site's discharges and discharge-related activities on federally-listed threatened or endangered species and federally-designated critical habitat. The result of this consultation must be either:

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- i. a biological opinion that concludes that the action in question (taking into account the effects of your site's discharges and discharge-related activities) is not likely to jeopardize the continued existence of listed species, nor the destruction or adverse modification of critical habitat; or
- ii. written concurrence from the applicable Service(s) with a finding that the site's discharges and discharge-related activities are not likely to adversely affect federally-listed species or federally-designated habitat.

You must include copies of the correspondence between yourself and the Services in your SWPPP and your NOI.

**Criterion F.** Your construction activities are authorized through the issuance of a permit under section 10 of the ESA, and this authorization addresses the effects of the site's discharges and discharge-related activities on federally-listed species and federally-designated critical habitat. You must include copies of the correspondence between yourself and the Services in your SWPPP and your NOI.

### Supporting Documentation

Provide documentation for the applicable eligibility criterion you select in Appendix D, as follows:

**For criterion A,** indicate the basis for your determination that no federally-listed threatened or endangered species or their designated critical habitat(s) are likely to occur in your site's action area (as defined in Appendix A of the permit). Check the applicable source of information you relied upon:

- Specific communication with staff of the U.S. Fish & Wildlife Service or National Marine Fisheries Service.
- Publicly available species list.
- Other source: [NHESP Program Mapping](#)

**For criterion B,** provide the Tracking Number from the other operator's notification of permit authorization:

Provide a brief summary of the basis used by the other operator for selecting criterion A, B, C, D, E, or F:

**For criterion C,** provide the following information:

▪

Also, provide a brief summary of the basis used for determining that your site's discharges and discharge-related activities are not likely to adversely affect listed species or critical habitat:

**For criterion D, E, or F,** attach copies of any letters or other communication between you and the U.S. Fish & Wildlife Service or National Marine Fisheries Service concluding consultation or coordination activities.

### 3.2 Historic Preservation

#### Appendix E, Step 1

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Do you plan on installing any of the following stormwater controls at your site? Check all that apply below, and proceed to Appendix E, Step 2.

- Dike
- Berm
- Catch Basin
- Pond
- Stormwater Conveyance Channel (e.g., ditch, trench, perimeter drain, swale, etc.)
- Culvert
- Other type of ground-disturbing stormwater control:

(Note: If you will not be installing any ground-disturbing stormwater controls, no further documentation is required for Section 3.2 of the Template.)

### Appendix E, Step 2

If you answered yes in Step 1, have prior surveys or evaluations conducted on the site already determined that historic properties do not exist, or that prior disturbances at the site have precluded the existence of historic properties?  YES  NO

- If yes, no further documentation is required for Section 3.2 of the Template.
- If no, proceed to Appendix E, Step 3.

### Appendix E, Step 3

If you answered no in Step 2, have you determined that your installation of subsurface earth-disturbing stormwater controls will have no effect on historic properties?  YES  NO

If yes, provide documentation of the basis for your determination.

Work is within an existing right of way, in a highly urbanized commercial zone and will not alter any known historic or cultural resources.. If no, proceed to Appendix E, Step 4.

### Appendix E, Step 4

If you answered no in Step 3, did the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Office (THPO), or other tribal representative (whichever applies) respond to you within 15 calendar days to indicate whether the subsurface earth disturbances caused by the installation of stormwater controls affect historic properties?  YES  NO

If no, no further documentation is required for Section 3.2 of the Template.

If yes, describe the nature of their response:

- Written indication that adverse effects to historic properties from the installation of stormwater controls can be mitigated by agreed upon actions.
- No agreement has been reached regarding measures to mitigate effects to historic

properties from the installation of stormwater controls.

Other:

### 3.3 **Safe Drinking Water Act Underground Injection Control Requirements**

Do you plan to install any of the following controls? Check all that apply below.

- Infiltration trenches (if stormwater is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)
- Commercially manufactured pre-cast or pre-built proprietary subsurface detention vaults, chambers, or other devices designed to capture and infiltrate stormwater flow
- Drywells, seepage pits, or improved sinkholes (if stormwater is directed to any bored, drilled, driven shaft or dug hole that is deeper than its widest surface dimension, or has a subsurface fluid distribution system)

If yes, [INSERT COPIES OF LETTERS, EMAILS, OR OTHER COMMUNICATION BETWEEN YOU AND THE STATE AGENCY OR EPA REGIONAL OFFICE](#)

## SECTION 4: EROSION AND SEDIMENT CONTROLS

### 4.1 Natural Buffers or Equivalent Sediment Controls

- The proposed project is a linear project within a heavily trafficked intersection. There are no existing natural buffers to be maintained.

#### Buffer Compliance Alternatives

Are there any surface waters within 50 feet of your project's earth disturbances? **XX** YES  NO  
There are wetlands associated with Vine Brook within the project locus.

Check the compliance alternative that you have chosen:

- I will provide and maintain a 50-foot undisturbed natural buffer.  
(Note (1): You must show the 50-foot boundary line of the natural buffer on your site map.)  
(Note (2): You must show on your site map how all discharges from your construction disturbances through the natural buffer area will first be treated by the site's erosion and sediment controls. Also, show on the site map any velocity dissipation devices used to prevent erosion within the natural buffer area.)

**XX** I will provide and maintain an undisturbed natural buffer that is less than 50 feet and is supplemented by additional erosion and sediment controls, which in combination achieves the sediment load reduction equivalent to a 50-foot undisturbed natural buffer.

See attached site plans for details and buffer zones

- Using the charts found in the Attachment G, the probability of soil erosion is considered low risk as slopes are generally less than 3 percent based on the fine sandy loams observed throughout the site. The contractor has installed perimeter control above any sensitive receptors.

- It is infeasible to provide and maintain an undisturbed natural buffer of any size, therefore I will implement erosion and sediment controls that achieve the sediment load reduction equivalent to a 50-foot undisturbed natural buffer.

**XX** I qualify for one of the exceptions in Part 2.1.2.1.e. (If you have checked this box, provide information on the applicable buffer exception that applies, below.)

#### Buffer Exceptions

Which of the following exceptions to the buffer requirements applies to your site?

## Stormwater Pollution Prevention Plan – Westford, Massachusetts July 2013

- There is no discharge of stormwater to the surface water that is located 50 feet from my construction disturbances.  
(Note: If this exception applies, no further documentation is required for Section 4.1 of the Template.)
- No natural buffer exists due to preexisting development disturbances that occurred prior to the initiation of planning for this project.  
(Note (1): If this exception applies, no further documentation is required for Section 4.1 of the Template.)  
(Note (2): Where some natural buffer exists but portions of the area within 50 feet of the surface water are occupied by preexisting development disturbances, you must still comply with the one of the CGP Part 2.1.2.1.a compliance alternatives.)
- For a "linear project" (defined in Appendix A), site constraints (e.g., limited right-of-way) make it infeasible for me to meet any of the CGP Part 2.1.2.1.a compliance alternatives.

The applicant has substantially met the requirement through the installation of the proposed erosion and sediment control barriers above all sensitive receptors.

- The project qualifies as "small residential lot" construction (defined in Part 2.1.2.1.e.iv and in Appendix A).  
For Alternative 1 (see Appendix G, Part G.2.3.2.a):  
  
For Alternative 2 (see Appendix G, Part G.2.3.2.b):
- Buffer disturbances are authorized under a CWA Section 404 permit.
- Buffer disturbances will occur for the construction of a water-dependent structure or water access area (e.g., pier, boat ramp, and trail).

### 4.2 Perimeter Controls

#### General

- The contractor proposed the use of compost filled filtration logs, straw wattles or the equivalent, at the limit of work line above all wetland areas. As a linear project, within an established paved surface and right of way, installation of perimeter fencing throughout the site is impractical.

#### Specific Perimeter Controls

##### Perimeter Control # 1

##### Perimeter Control Description

- Erosion and sedimentation control barrier consisting of compost filled filtration socks, straw wattles or the equivalent, will be installed at the limit of work line above all wetland resource areas. The Westford Conservation Commission will inspect all of the erosion and sedimentation controls prior to the commencement of work on any of the roadways.

##### Installation



- July 2013

Maintenance Requirements

- The erosion controls are inspected daily within work areas, and weekly at all other locations. Sediment accumulations are removed from the locus when depths exceed six inches.

[Repeat as needed for individual perimeter controls.]

#### 4.3 Sediment Track-Out

##### General

- Route 110 is a paved access ways and will function as a paved access point and will be swept daily.
- Staging areas will incorporate compost filtration logs at the toe of stockpiles, and again access points will be swept daily.

##### Specific Track-Out Controls

###### Track-Out Control # 1

###### Track-Out Control Description

- Stone or Wood mulch access pads at locations between staging areas and paved surfaces.

###### Installation

- Wood Mulch and/or Stone access pads

###### Maintenance Requirements

- The site is swept daily and there is no accumulation of sediments within the project locus.
- 

[Repeat as needed for individual track-out controls.]

#### 4.4 Stockpiled Sediment or Soil

##### General

- On a short term basis, stockpiles may be set along the shoulder of the road. Longer term stockpiling will be done at an appropriate site provided by the Town of Westford or the contractor.

##### Specific Stockpile Controls

###### Stockpile Control # 1

###### Stockpiled Sediment/Soil Control Description

- See attached site plans

###### Installation

- July , 2013

###### Maintenance Requirements

- Stockpiles are being kept separate from the roadway, and there are no discharges to a storm water conveyance. The site is swept daily, and physical barriers used to contain sediments.
- 

[Repeat as needed for individual stockpile controls.]

#### **4.5 Minimize Dust**

##### **General**

- The contractor will use a water truck to control dust on an as needed basis.

##### **Specific Dust Controls**

###### Dust Control # 1

###### Dust Control Description

- A water truck will be employed as needed to control dust. Preventative measures include daily sweeping and scraping of paved surfaces.

###### Installation

- As needed

###### Maintenance Requirements

- Daily or as needed.

[Repeat as needed for individual dust controls.]

#### **4.6 Minimize the Disturbance of Steep Slopes**

##### **General**

- There are no steep slopes that will be disturbed through this project. Reclamation work will be completed within the work week, will include only land areas within the paved right of way.

##### **Specific Steep Slope Controls**

As a linear roadway project within an existing right of way, there is no slope work proposed.

###### Steep Slope Control # 1

###### Steep Slope Control Description

- Not Applicable

###### Installation

- Not Applicable

###### Maintenance Requirements

- Not Applicable

[Repeat as needed for individual steep slope controls.]

#### 4.7 Topsoil

##### General

- The site is an urbanized, linear roadway and there is no top soil to be preserved.
- 

##### Specific Topsoil Controls

###### Topsoil Control # 1

###### Topsoil Control Description

- Stockpiles to be maintained off site or on an as needed basis along the shoulder of the work area.

###### Installation

- July 2013

###### Maintenance Requirements

- Daily sweeping and scraping of tracked sediments, as well as protective barriers at the down gradient edge of the piles (as needed). Wood chips or crushed stone may be used to create berms along the toe of stockpiles.

[Repeat as needed for individual topsoil controls.]

#### 4.8 Soil Compaction

##### General

- The bulk of the site is degraded, and compacted, as it is within a heavily trafficked roadway footprint.

##### Specific Soil Compaction Controls

###### Soil Compaction Control # 1

###### Soil Compaction Control Description

- Not Applicable

###### Installation

###### Maintenance Requirements

- .

[Repeat as needed for individual soil compaction controls.]

#### 4.9 Storm Drain Inlets

**General**

- Where appropriate, the contractor will line the catch basin grates with geotextile fabric or install silt filter bags. Work areas will be swept daily, and sediment discharges should be free of construction sediment.

**Specific Storm Drain Inlet Controls**

Storm Drain Inlet Control # 1

Storm Drain Inlet Control Description

- Geotextile fabric liners or siltation control sacks

Installation

- Liners or sacks will be installed when construction is proposed within the watershed above a drainage structure. These will be installed and removed at the contractor's discretion to prevent flooding within the locus during construction.

Maintenance Requirements

- Liners and or silt sacks will be inspected at the end of a work day, and after any storm event of greater than ½ inch in accumulation. Sediment will be removed, or liners replaced, if the function of the structure becomes compromised.
- 

**4.10 Storm Water Conveyance Channels**

**General**

- Restoration and cleaning of stormwater conveyance channels is proposed.

**Specific Conveyance Channel Controls**

Stormwater Conveyance Channel Control # 1

Stormwater Conveyance Channel Control Description

- Portions of the existing stormwater management system consists of grassed or vegetated swales along the shoulder of the roadway. Removal of excess sediment accumulation, re shaping and reseeding are included in the scope of work.

Installation

- Geotextile fabrics will be incorporated per the plan specifications.

Maintenance Requirements

- Stormwater conveyance swales will be maintained by the MassDOT Highway Department. Routine maintenance will include removal of accumulated sediments, trash and debris on an annual basis.

**4.11 Sediment Basins**

**General**

- Catch basins will be used to control sediment, when necessary.

## Specific Sediment Basin Controls

### Sediment Basin Control # 1

#### Sediment Basin Control Description

##### Installation

- July 2013

##### Maintenance Requirements

- Contractor will inspect basin after each significant rain event, and remove excessive sediments as required.

[Repeat as needed for individual sediment basin controls.]

## 4.12 Chemical Treatment

### Soil Types

List all the soil types (including soil types expected to be found in fill material) that are expected to be exposed during construction and that will be discharged to locations where chemicals will be applied: Soils within the locus include urbanized soils, with fine sandy loam substrates.

### Treatment Chemicals

List all treatment chemicals that will be used at the site and explain why these chemicals are suited to the soil characteristics: Flocculent Logs will be used if needed.

Describe the dosage of all treatment chemicals you will use at the site or the methodology you will use to determine dosage: Logs will be set within drainage structures per manufacturers instructions.

Provide information from any applicable Material Safety Data Sheets (MSDS): see attached MSD sheets

Describe how each of the chemicals will stored: Chemicals will be stored within the contractors shed/vehicles.

Include references to applicable state or local requirements affecting the use of treatment chemicals, and copies of applicable manufacturer's specifications regarding the use of your specific treatment chemicals and/or chemical treatment systems:

### Special Controls for Cationic Treatment Chemicals (if applicable)

If you have been authorized by your applicable Regional Office to use cationic treatment chemicals, include the official EPA authorization letter or other communication, and identify the specific controls and implementation procedures you are required to implement to ensure that your use of cationic treatment chemicals will not lead to a violation of water quality standards: No Catatonic treatments are proposed.

### Schematic Drawings of Stormwater Controls/Chemical Treatment Systems

Provide schematic drawings of any chemically-enhanced stormwater controls or chemical treatment systems to be used for application of treatment chemicals: Not Applicable

### Training

Describe the training that personnel who handle and apply chemicals have received prior to permit coverage, or will receive prior to the use of treatment chemicals: Not Applicable

#### 4.13 Dewatering Practices

##### General

- While dewatering is not anticipated, no untreated discharges will be allowed. The Order of Conditions issued by the Westford Conservation Commission requires the use of dewatering sacks for all dewatering activities.

##### Specific Dewatering Practices

###### Dewatering Practice # 1

###### Dewatering Practice Description

- Contractor will use a ten foot by ten foot geotextile fabric filter bag on any dewatering hoses. No direct discharges will be permitted within the work area or adjacent land areas.

###### Installation

- AS needed

###### Maintenance Requirements

- Bags will be replaced when silted, or when ½ full of sediment.  
(Note: At a minimum, contractor will comply with following requirement in CGP Part 2.1.3.4: "With backwash water, either haul it away for disposal or return it to the beginning of the treatment process; and replace and clean the filter media used in dewatering devices when the pressure differential equals or exceeds the manufacturer's specifications.")

#### 4.14 Other Stormwater Controls

##### General

- No other stormwater controls are proposed at this time.

##### Specific Stormwater Control Practices

###### Stormwater Control Practice # 1

###### Description

###### Installation

- 

###### Maintenance Requirements

- 

[Repeat as needed.]

#### 4.15 Site Stabilization

**Site Stabilization Practice** (only use this if you are not located in an arid, semi-arid, or drought-stricken area)

Stormwater Pollution Prevention Plan – Westford, Massachusetts July 2013

Vegetative  Non-Vegetative  
**XX** Temporary  Permanent

Description of Practice

- Road work will be backfilled and paved at the end of each work day. Road surfaces will be swept prior to leaving the site for the day.

Installation

- Work will commence on or about July 29, 2013
- Work should be completed by October 31, 2015

Maintenance Requirements

See above.

[Repeat as needed for additional stabilization practices.]

**Site Stabilization Practice** (only use this if you are located in an arid, semi-arid, or drought-stricken area)

XX Vegetative  Non-Vegetative  
 Temporary  Permanent

Description of Practice

- Disturbed areas will be loamed and seeded at completion of paving and reclamation work.

Installation

- Seed will be applied by October 15 in any construction year.

Maintenance Requirements

Contractor will inspect vegetated areas after rain events until growth of vegetation has stabilized the right of way or the storm water management areas.

**Site Stabilization Practice** (only use this if uncontrollable circumstances have delayed the initiation or completion of stabilization)

(Note: You will not be able to include this information in your initial SWPPP. If you are affected by circumstances such as those described in CGP Part 2.2.1.3.b, you will need to modify your SWPPP to include this information.)

Vegetative  Non-Vegetative  
 Temporary  Permanent

Justification

- 

Description of Practice

Installation

Maintenance Requirements

**SECTION 5: POLLUTION PREVENTION STANDARDS**

**5.1 Potential Sources of Pollution**

**Instructions (see CGP Part 7.2.7):**

- Identify and describe all pollutant-generating activities at your site (e.g., paving operations; concrete, paint, and stucco washout and waste disposal; solid waste storage and disposal).
- For each pollutant-generating activity, include an inventory of pollutants or pollutant constituents associated with that activity (e.g., sediment, fertilizers, and/or pesticides, paints, solvents, fuels), which could be exposed to rainfall or snowmelt, and could be discharged from your construction site. You must take into account where potential spills and leaks could occur that contribute pollutants to stormwater discharges.

**Construction Site Pollutants**

INSERT TEXT OR USE TABLE BELOW

Pollutant-Generating Activity	Pollutants or Pollutant Constituents (that could be discharged if exposed to stormwater)	Location on Site (or reference SWPPP site map where this is shown)
Paving Activities		Entire length of Roadway
Solid Waste Disposal		Bituminous concrete, old pipe, replaced drainage structures
Concrete Mixing		At various drainage structures
Refueling of Equipment		On paved surfaces outside of jurisdictional wetland or buffer zones

[Include additional rows as necessary.]





## 5.2 Spill Prevention and Response

A spill kit will be on site during all portions of the work day, and contractor will train employees in appropriate containment and cleanup skills. The following agency should be contacted in case of a spill:

Westford Fire Department (978) 692 5542 or (978) 399 2083

Westford Board of Health (978) 692 5509

Westford Police Department (978) 692 2161

DEP Northeast Region (978) 694 3200

## 5.3 Fueling and Maintenance of Equipment or Vehicles

Spill kit will be present during the refueling of any equipment. Additionally, all refueling will occur on a paved surface, located at least one hundred feet from a wetland resource area.

### General

- A spill kit with containment berms and absorbent materials will be kept in the work area.

### Specific Pollution Prevention Practices

#### Pollution Prevention Practice # 1

##### Description

- Spill Kit will be maintained and kept on site.

##### Installation

- July 29, 2013

##### Maintenance Requirements

- Spill kit will be refurbished after each use, and inspected weekly.

[Repeat as needed.]

## 5.4 Washing of Equipment and Vehicles

### General

- There will be no washing of equipment within the locus. All cleaning will be done at an off site location.

### Specific Pollution Prevention Practices

#### Pollution Prevention Practice # 1

##### Description

- NA

Installation

- NA

Maintenance Requirements

- NA

[Repeat as needed.]

## **5.5 Storage, Handling, and Disposal of Construction Products, Materials, and Wastes**

### **5.5.1 Building Products**

All construction byproducts will be hauled from the site and disposed of at an off site location.

#### **General**

- Temporary storage of waste products will be at staging areas along each of the roadways, and materials will be hauled to off site disposal areas, at least weekly.

#### **Specific Pollution Prevention Practices**

##### Pollution Prevention Practice # 1

Description

- Stockpiles of byproducts or waste materials will be contained at the staging areas.

Installation

- July 29, 2013

Maintenance Requirements

- Stockpiles will be inspected daily, and stored on an impermeable surface if necessary.

[Repeat as needed.]

### **5.5.2 Pesticides, Herbicides, Insecticides, Fertilizers, and Landscape Materials**

#### **General**

- No Pesticides, Herbicides, Fertilizers or Landscape materials will be stored on site.

#### **Specific Pollution Prevention Practices**

##### Pollution Prevention Practice # 1

Description

- No storage on site.

Installation

- July 29, 2013

Maintenance Requirements

- Products will be brought on site as needed, and used immediately.

[Repeat as needed.]

### 5.5.3 Diesel Fuel, Oil, Hydraulic Fluids, Other Petroleum Products, and Other Chemicals

#### General

- Storage of small amounts of chemicals, fluids or fuel may be done using the contractors trucks for containment.

#### Specific Pollution Prevention Practices

##### Pollution Prevention Practice # 1

#### Description

- Chemicals must be in sealed containers and kept on the contractors vehicles.

#### Installation

- May 25, 2013

#### Maintenance Requirements

- Storage areas are limited to contractor vehicles.

[Repeat as needed.]

### 5.5.4 Hazardous or Toxic Waste

(Note: Examples include paints, solvents, petroleum-based products, wood preservatives, additives, curing compounds, acids.)

#### General

- Materials will be stored in sealed containers on contractor vehicles.

#### Specific Pollution Prevention Practices

##### Pollution Prevention Practice # 1

#### Description

- Storage is limited to contractor vehicles.

#### Installation

- July 29, 2013

#### Maintenance Requirements

- Materials will be stored in sealed containers on contractor vehicles.

[Repeat as needed.]

### 5.5.5 Construction and Domestic Waste

(Note: Examples include packaging materials, scrap construction materials, masonry products, timber, pipe and electrical cuttings, plastics, styrofoam, concrete, and other trash or building materials.)

#### General

- These materials will be removed from the site on a daily basis.

#### Specific Pollution Prevention Practices

##### Pollution Prevention Practice # 1

## Stormwater Pollution Prevention Plan – Westford, Massachusetts July 2013

### Description

- Materials will be hauled from the site on a regular basis.

### Installation

- July 29, 2013

### Maintenance Requirements

- Short term storage will include weekly removal to appropriate locations. Daily removal will be mandated for debris that may become windborne.

[Repeat as needed.]

## 5.5.6 Sanitary Waste

### General

- The contractor has installed a Port-O-Let within the project locus.

### Specific Pollution Prevention Practices

#### Pollution Prevention Practice # 1

##### Description

- Port-O-Let to be maintained appropriately.

##### Installation

- July 29, 2013

##### Maintenance Requirements

Unit will be serviced by provider of Port-O-Let

[Repeat as needed.]

## 5.6 Washing of Applicators and Containers used for Paint, Concrete or Other Materials

### General

- There will be no washing of applicators or containers within the project locus.

### Specific Pollution Prevention Practices

#### Pollution Prevention Practice # 1

##### Description

- No washing of applicators or containers within the project locus

##### Installation

- July 29, 2013

##### Maintenance Requirements

- All containers will be hauled from the site for disposal.

[Repeat as needed.]

## 5.7 Fertilizers

### General

- As a linear roadway improvement project, there is little fertilizer use anticipated.

### Specific Pollution Prevention Practices

Hydroseed application will minimize use of fertilizers. No other application of chemicals to be applied to landscape.

#### Pollution Prevention Practice # 1

##### Description

- Tackifier to be used with hydro seed application. This matrix will bond fertilizers to applied surfaces.

##### Installation

- October 2013

##### Maintenance Requirements

- None

[Repeat as needed for individual fertilizer practices.]

## 5.8 Other Pollution Prevention Practices

### Instructions:

Describe any additional pollution prevention practices that do not fit into the above categories.

### General

- No other pollution prevention practices are proposed at this time

### Specific Pollution Prevention Practices

#### Pollution Prevention Practice # 1

##### Description

- 
- 

##### Installation

- 

##### Maintenance Requirements

-

## SECTION 6: INSPECTION AND CORRECTIVE ACTION

### 6.1 Inspection Personnel and Procedures

Inspections will be done daily at each work area, and weekly throughout the site. Photographs of work and/or noted deficiencies will be kept as part of the NPDES record keeping. Written reports will be submitted to the MassDOT Engineer on a weekly and post-storm basis.

#### Personnel Responsible for Inspections

Mary Trudeau, CPESC  
Joe Curtin, PE

Note: All personnel conducting inspections must be considered a “qualified person.” CGP Part 4.1.1 clarifies that a “qualified person” is a person knowledgeable in the principles and practices of erosion and sediment controls and pollution prevention, who possesses the skills to assess conditions at the construction site that could impact stormwater quality, and the skills to assess the effectiveness of any stormwater controls selected and installed to meet the requirements of this permit.

#### Inspection Schedule

Specific Inspection Frequency

The site will be inspected daily for defects in the erosion controls and weekly for SWPPP compliance. Mary Trudeau will inspect the site after significant rain events, or at a minimum of once per week. Joe Curtin will be responsible for daily inspections. As noted above, copies of the Contractor SWPPP Inspection Reports will be given to the project proponent on a weekly or post storm basis.

Rain Gauge Location (if applicable)

Westford, Massachusetts

Reductions in Inspection Frequency (if applicable)

- For the reduction in inspections resulting from stabilization:
- 
- For the reduction in inspections in arid, semi-arid, or drought-stricken areas:
- For reduction in inspections due to frozen conditions:

#### Inspection Report Forms

See Attached Form

## 6.2 **Corrective Action**

If upon inspection an erosion problem or discharge of sediment is observed, then the Contractor will immediately notify the Resident Engineer and take corrective actions as soon as possible but no later than 24 hours from the observance of the problem. A follow up inspection report discussing the corrective action taken will be submitted by the Contractor to the MassDOT Resident Engineer after the action has been completed.

### **Personnel Responsible for Corrective Actions**

Joe Curtin, PE will be responsible for any corrective actions required.

### **Corrective Action Forms**

See attached Appendix E

## 6.3 **Delegation of Authority**

### **Duly Authorized Representative(s) or Position(s):**

E.H. Perkins Construction  
Joe Curtin, PE  
Project Engineer and Supervisor  
PO Box 752  
Hudson, MA 01749  
978 422 8812:  
drpcurtin@comcast.net



**SECTION 7: TRAINING**

**Stormwater Pollution Prevention Training Log**

Project Name: **(Route 110) Littleton Road Reconstruction**

Project Location: **Westford, Massachusetts**

Instructor's Name(s): **Joe Curtin, PE**

Instructor's Title(s): **Site Supervisor**

Course Location: \_\_\_\_\_ Date: \_\_\_\_\_

Course Length (hours): \_\_\_\_\_

Stormwater Training Topic: *(check as appropriate)*

- Sediment and Erosion Controls**
- Emergency Procedures**
- Stabilization Controls**
- Inspections/Corrective Actions**
- Pollution Prevention Measures**

Specific Training Objective: \_\_\_\_\_  
 \_\_\_\_\_

Attendee Roster: *(attach additional pages as necessary)*

**Table 7-1: Documentation for Completion of Training**

<b>Name</b>	<b>Date Training Completed</b>
Joe Paolini	March 1, 2013
Joe Curtin	March 1, 2013
Mary Trudeau	March 1, 2013
Joe Paolini, Jr	March 1, 2013
Charlene Paolini	March 1, 2013
Erik Frazer	March 1, 2013
Mitchell Kelly	March 1, 2013



**SECTION 8: CERTIFICATION AND NOTIFICATION**

**Instructions (CGP Appendix I, Part I.11.b):**

- The following certification statement must be signed and dated by a person who meets the requirements of Appendix I, Part I.11.b.
- This certification must be re-signed in the event of a SWPPP Modification.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

[Repeat as needed for multiple construction operators at the site.]

**SWPPP APPENDICES**

Attach the following documentation to the SWPPP:

***Appendix A – Site Maps (USGS Locus, Mass DOT locus, FEMA Mapping, Soils Mapping, NHESP locus)***

***Appendix B –The Order of Conditions from the Westford Conservation Commission and the Stormwater Report (dated February 2012)***

***Appendix C – NOI and EPA Authorization Email***

***Appendix D – Inspection Form (Form C)***

***Appendix E – Corrective Action Form***

***Appendix F – SWPPP Amendment Log***

***Appendix G – Subcontractor Certifications/Agreements***

***Appendix H – Grading and Stabilization Activities Log***

***Appendix I – SWPPP Training Log***

***Appendix J - Delegation of Authority***

***Appendix k- Copy of 2012 CGP***

**Appendix A – Site Maps (USGS Locus, MassDOT Locus (2), NHESP Mapping, FEMA Mapping and Soils Mapping)**

**Appendix B –**

**Order of Conditions (issued by the Westford Conservation Commission) and the**

**Stormwater Report and Checklist prepared by Fay, Spofford & Thorndike, LLC in February of 2012**

**Appendix C – Copy of NOI and EPA Authorization email**

**Appendix D – Copy of Inspection Form “Form C”**



**Appendix E – Copy of Corrective Action Form**

**Appendix F – *Route 110, Littleton Roadway Improvements* SWPPP Amendment Log**

No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

**Appendix G –Subcontractor Certifications/Agreements**

SUBCONTRACTOR CERTIFICATION  
STORMWATER POLLUTION PREVENTION PLAN

Project Number: \_\_\_\_\_

Project Title: \_\_\_\_\_

Operator(s): \_\_\_\_\_

As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

**I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the practices described in the SWPPP.**

This certification is hereby signed in reference to the above named project:

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Type of construction service to be provided: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



**Appendix I –SWPPP Training Log**

**Stormwater Pollution Prevention Training Log**

Project Name:

Project Location:

Instructor's Name(s):

Instructor's Title(s):

Course Location: \_\_\_\_\_ Date: \_\_\_\_\_

Course Length (hours): \_\_\_\_\_

Stormwater Training Topic: *(check as appropriate)*

- Sediment and Erosion Controls**
- Emergency Procedures**
- Stabilization Controls**
- Inspections/Corrective Actions**
- Pollution Prevention Measures**

Specific Training Objective: \_\_\_\_\_  
\_\_\_\_\_

Attendee Roster: *(attach additional pages as necessary)*

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		

**Appendix J –Delegation of Authority Form**

Delegation of Authority

I, \_\_\_\_\_ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the Construction General Permit, at the \_\_\_\_\_ construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.

\_\_\_\_\_ (name of person or position)  
\_\_\_\_\_ (company)  
\_\_\_\_\_ (address)  
\_\_\_\_\_ (city, state, zip)  
\_\_\_\_\_ (phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Appendix I of EPA's Construction General Permit (CGP), and that the designee above meets the definition of a "duly authorized representative" as set forth in Appendix I.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Name:** Joe Curtin, PE \_\_\_\_\_

**Company:** EH Perkins Construction \_\_\_\_\_

**Title:** Project Manager \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Appendix K- 2012 CGP**