

# Notice of Intent

## Culvert Replacement Valley Road over Unnamed Brook



**Boxford  
June 2018**

Prepared by:



600 Unicorn Park Drive  
Woburn, MA 01801

781-932-3201

[www.baysideengineering.com](http://www.baysideengineering.com)

Applicant:

Town of Boxford – Department of  
Public Works  
7B Spofford Road  
Boxford, MA 01921

eDEP#1026068

Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1026068
City/Town:BOXFORD

A.General Information

1. Project Location:

a. Street Address 67 VALLEY ROAD
b. City/Town BOXFORD c. Zip Code 01921
d. Latitude 42.70755N e. Longitude 71.03896W
f. Map/Plat # N/A g.Parcel/Lot # N/A

2. Applicant:

Individual Organization

a. First Name JOHN b.Last Name DOLD
c. Organization TOWN OF BOXFORD DEPARTMENT OF PUBLIC WORKS
d. Mailing Address 7B SPOFFORD RD.
e. City/Town BOXFORD f. State MA g. Zip Code 01921
h. Phone Number 978-352-6555 i. Fax j. Email JDold@town.boxford.ma.us

3.Property Owner:

more than one owner

a. First Name b. Last Name
c. Organization TOWN OF BOXFORD
d. Mailing Address 7B SPOFFORD RD.
e. City/Town BOXFORD f.State MA g. Zip Code 01921
h. Phone Number 978-352-6555 i. Fax j.Email JDold@town.boxford.ma.us

4.Representative:

a. First Name BREE b. Last Name SULLIVAN
c. Organization BAYSIDE ENGINEERING INC.
d. Mailing Address 600 UNICORN PARK DRIVE
e. City/Town WOBURN f. State MA g. Zip Code 01801
h.Phone Number 781-932-3201 i.Fax j.Email bree.sullivan@baysideengineering.com

5.Total WPA Fee Paid (Automatically inserted from NOI Wetland Fee Transmittal Form):

a.Total Fee Paid 0.00 b.State Fee Paid 0.00 c.City/Town Fee Paid 0.00

6.General Project Description:

REPLACE EXISTING 18" CMP WITH A 7' HIGH X 8' WIDE PRECAST CONCRETE BOX CULVERT.

7a.Project Type:

- 1. Single Family Home
2. Residential Subdivision
3. Limited Project Driveway Crossing
4. Commercial/Industrial
5. Dock/Pier
6. Utilities
7. Coastal Engineering Structure
8. Agriculture (eg., cranberries, forestry)
9. Transportation
10. Other

7b.Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

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1.  Yes  No If yes, describe which limited project applies to this project:  
 2. Limited Project

8. Property recorded at the Registry of Deeds for:

**a.County:** **b.Certificate:** **c.Book:** **d.Page:**

**B. Buffer Zone & Resource Area Impacts (temporary & permanent)**

1. Buffer Zone & Resource Area Impacts (temporary & permanent):

This is a Buffer Zone only project - Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.

2. Inland Resource Areas: (See 310 CMR 10.54 - 10.58, if not applicable, go to Section B.3. Coastal Resource Areas)

Resource Area Size of Proposed Alteration Proposed Replacement (if any)

a. <input type="checkbox"/> Bank	1. linear feet	2. linear feet
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	145 1. square feet	2. square feet
c. <input type="checkbox"/> Land under Waterbodies and Waterways	1. Square feet	2. square feet
	3. cubic yards dredged	
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet	2. square feet
	3. cubic feet of flood storage lost	4. cubic feet replaced
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet	
	2. cubic feet of flood storage lost	3. cubic feet replaced

f.  Riverfront Area

1. Name of Waterway (if any)  
 2. Width of Riverfront Area (check one)  
 25 ft. - Designated Densely Developed Areas only  
 100 ft. - New agricultural projects only  
 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project  
 square feet

4. Proposed Alteration of the Riverfront Area:

- a. total square feet      b. square feet within 100 ft.      c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI?  Yes  No

6. Was the lot where the activity is proposed created prior to August 1, 1996?  Yes  No

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3.Coastal Resource Areas: (See 310 CMR 10.25 - 10.35)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Designated Port Areas	Indicate size under	Land under the ocean below,
b. <input type="checkbox"/> Land Under the Ocean	1. square feet	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes, below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	1. square feet	2. cubic yards dune nourishment
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab, crea.
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	1. square feet	

4.Restoration/Enhancement

Restoration/Replacement

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please entered the additional amount here.

100

a. square feet of BVW

b. square feet of Salt Marsh

5.Projects Involves Stream Crossings

Project Involves Streams Crossings

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.

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a. number of new stream crossings

b. number of replacement stream crossings

**C. Other Applicable Standards and Requirements**

**Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review**

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage of Endangered Species program (NHESP)?

a.  Yes  No

If yes, include proof of mailing or hand delivery of NOI to:

Natural Heritage and Endangered Species Program  
Division of Fisheries and Wildlife  
1 Rabbit Hill Road  
Westborough, MA 01581

b. Date of map:FROM MAP VIEWER

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18)...

c. Submit Supplemental Information for Endangered Species Review \* (Check boxes as they apply)

1.  Percentage/acreage of property to be altered:

(a) within Wetland Resource Area

percentage/acreage

(b) outside Resource Area

percentage/acreage

2.  Assessor's Map or right-of-way plan of site

3.  Project plans for entire project site, including wetland resource areas and areas outside of wetland jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work \*\*

a.  Project description (including description of impacts outside of wetland resource area & buffer zone)

b.  Photographs representative of the site

c.  MESA filing fee (fee information available at: <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/mesa-fee-schedule.html>)

Make check payable to "Natural Heritage & Endangered Species Fund" and **mail to NHESP** at above address

*Projects altering 10 or more acres of land, also submit:*

d.  Vegetation cover type map of site

e.  Project plans showing Priority & Estimated Habitat boundaries

d. OR Check One of the following

1.  Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <http://www.mass.gov/eea/agencies/dfg/dfw/laws-regulations/cmr/321-cmr-1000-massachusetts-endangered-species-act.html#10.14>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2.  Separate MESA review ongoing.

a. NHESP Tracking Number

b. Date submitted to NHESP

3.  Separate MESA review completed.

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Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

\* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review...

2. For coastal projects only, is any portion of the proposed project located below the mean high waterline or in a fish run?

a.  Not applicable - project is in inland resource area only

b.  Yes  No

If yes, include proof of mailing or hand delivery of NOI to either:

South Shore - Cohasset to Rhode Island,  
and the Cape & Islands:

North Shore - Hull to  
New Hampshire:

Division of Marine Fisheries -  
Southeast Marine Fisheries Station  
Attn: Environmental Reviewer  
1213 Purchase street - 3rd floor  
New Bedford, MA 02740-6694

Division of Marine  
Fisheries -  
North Shore Office  
Attn: Environmental  
Reviewer  
30 Emerson Avenue  
Gloucester, MA 01930

If yes, it may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional office.

3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

a.  Yes  No

If yes, provide name of ACEC (see instructions to WPA Form 3 or DEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC Name

4. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?

a.  Yes  No

5. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L.c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L.c. 130, § 105)?

a.  Yes  No

6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?

a.  Yes, Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:

1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol.2, Chapter 3)

2.  A portion of the site constitutes redevelopment

3.  Proprietary BMPs are included in the Stormwater Management System

b.  No, Explain why the project is exempt:

1.  Single Family Home



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- 2. Emergency Road Repair
- 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

**D. Additional Information**

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

**Online Users:** Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department by regular mail delivery.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s). Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.

a. Plan Title:	b. Plan Prepared By:	c. Plan Signed/Stamped By:	d. Revised Final Date:	e. Scale:
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CULVERT REPLACEMENT - VALLEY ROAD OVER UNNAMED BROOK	BREE SULLIVAN		6-27-18	AS NOTED
SUPPORTING DUCMENTATION	BREE SULLIVAN		6-27-18	
LONG TERM CULVERT REPLACEMENT REPORT	BREE SULLIVAN		JULY 2017	

- 5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form.
- 9. Attach Stormwater Report, if needed.

□ **Massachusetts Department of Environmental Protection**  
Bureau of Resource Protection - Wetlands  
**WPA Form 3 - Notice of Intent**  
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

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eDEP Transaction #:1026068  
City/Town:BOXFORD

**E. Fees**

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

_____	_____
2. Municipal Check Number	3. Check date
_____	_____
4. State Check Number	5. Check date
_____	_____
6. Payer name on check: First Name	7. Payer name on check: Last Name

**F. Signatures and Submittal Requirements**

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

_____	_____
1. Signature of Applicant	2. Date
_____	_____
3. Signature of Property Owner(if different)	4. Date
BREE SULLIVAN	6/27/2018
_____	_____
5. Signature of Representative (if any)	6. Date

**For Conservation Commission:**

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

**For MassDEP:**

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

**Other:**

If the applicant has checked the "yes" box in Section C, Items 1-3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**WPA Form 3 - Notice of Wetland Fee Transmittal**  
**Form**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:  
 MassDEP File #:  
 eDEP Transaction #:1026068  
 City/Town:BOXFORD

**A. Applicant Information**

1. Applicant:

a. First Name	JOHN	b. Last Name	DOLD
c. Organization	TOWN OF BOXFORD DEPARTMENT OF PUBLIC WORKS		
d. Mailing Address	7B SPOFFORD RD.		
e. City/Town	BOXFORD	f. State	MA
g. Zip Code	01921		
h. Phone Number	9783526555	i. Fax	
j. Email	JDold@town.boxford.ma.us		

2. Property Owner:(if different)

a. First Name		b. Last Name	
c. Organization	TOWN OF BOXFORD		
d. Mailing Address	7B SPOFFORD RD.		
e. City/Town	BOXFORD	f. State	MA
g. Zip Code	01921		
h. Phone Number	9783526555	i. Fax	
j. Email	JDold@town.boxford.ma.us		

3. Project Location:

a. Street Address	67 VALLEY ROAD	b. City/Town	BOXFORD
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Are you exempted from Fee?  (YOU HAVE SELECTED 'YES')

**Note:** Fee will be exempted if you are one of the following:

- City/Town/County/District
- Municipal Housing Authority
- Indian Tribe Housing Authority
- MBTA

State agencies are only exempt if the fee is less than \$100

**B. Fees**

Activity Type	Activity Number	Activity Fee	RF Multiplier	Sub Total
		City/Town share of filling fee	State share of filing fee	Total Project Fee
		\$0.00	\$0.00	\$0.00

MassDEP's Online Filing System

Username: BAYSIDE  
Nickname: BAYENV

LOG OFF

[My eDEP](#) | [Forms](#) | [My Profile](#) | [Help](#) | [Notifications](#)**Receipt**

## Summary/Receipt

print receipt

Exit

Your submission is complete. Thank you for using DEP's online reporting system. You can select "My eDEP" to see a list of your transactions.

DEP Transaction ID: 1026068

Date and Time Submitted: 6/27/2018 9:04:00 AM

Other Email :

**Form Name:** WPA Form 3 - NOI

## Project Location

City/Town Name: BOXFORD

location: 67 VALLEY ROAD

General Description: REPLACE EXISTING 18" CMP WITH A 7' HIGH X 8' WIDE PRECAST CONCRETE BOX CULVERT.

## Applicant Information

Name: JOHN DOLD

Company: TOWN OF BOXFORD DEPARTMENT OF PUBLIC WORKS

Address: 7B SPOFFORD RD., BOXFORD, MA, 01921

## Payment Information

Your fee for the state share is \$: 0.00

If you have paid by credit card or ACH, thank you for your payment. If you are paying by check or money order, please send your check (payable to the Commonwealth of Massachusetts) to MassDEP, Box 4062, Boston, MA 02211

## Additional Forms Submitted

WPA Form 3 - NOI (Fee Transmittal)(ONLINE ONLY)

**Ancillary Document Uploaded/Mailed**

Culvert Design

Plans

Supporting Docs

[My eDEP](#)

# **NOTICE OF INTENT (NOI) – TABLE OF CONTENTS**

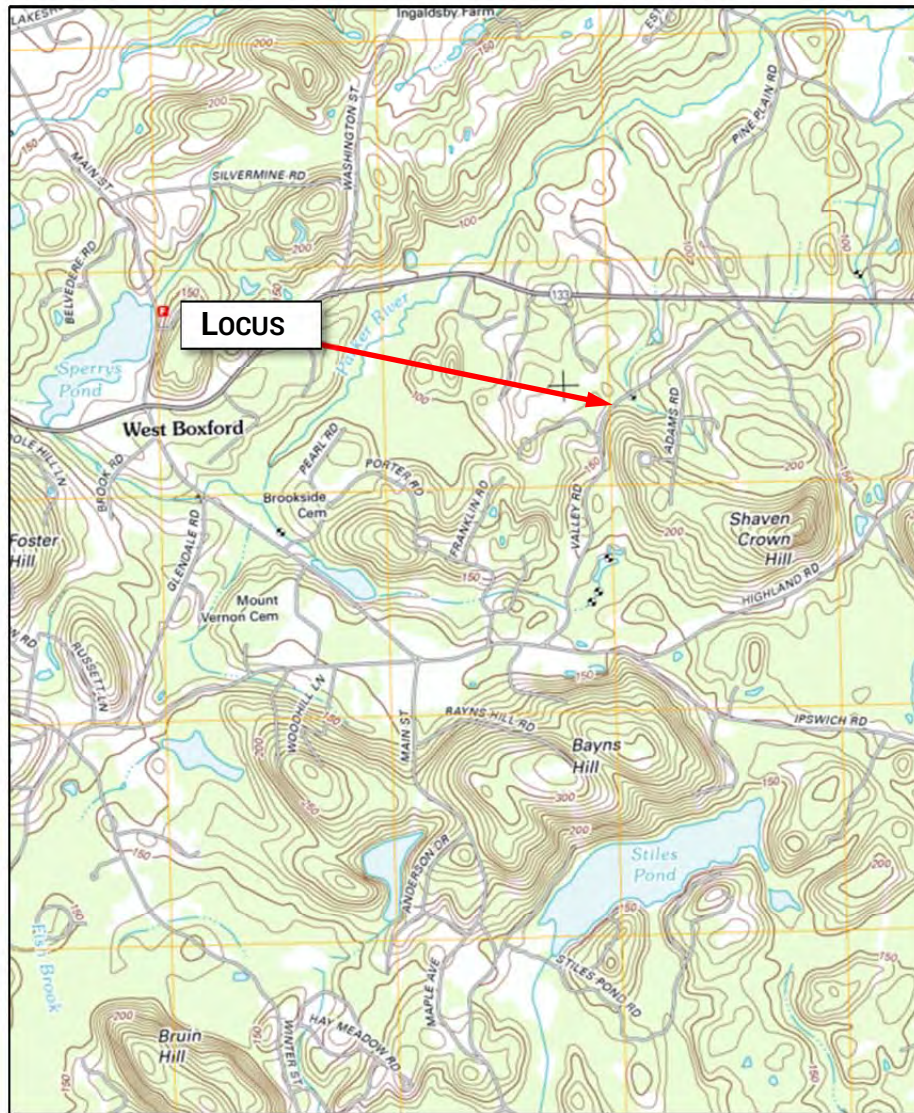
## **CULVERT REPLACEMENT VALLEY ROAD OVER UNNAMED BROOK, BOXFORD**

The following NOI items are included to assist in the review of this project.

<b>Name</b>	<b>Description</b>
	WPA Form 3/NOI Wetland Fee Transmittal Form
Attachment 1	USGS Map with Project Location
Attachment 2	Orthophoto with Project Location
Attachment 3	Natural Resource and NHESP Habitat Map
Attachment 4	Flood Map
Attachment 5	Project Photos
Attachment 6	Project Description
Attachment 7	Stormwater Checklist
Attachment 8	Operation and Maintenance
Attachment 9	Assessors Map
Attachment 10	Certified Abutters List/Abutter Notification

# PROJECT LOCUS MAP

## CULVERT REPLACEMENT VALLEY ROAD OVER UNNAMED BROOK BOXFORD, MA



Reference: USGS TopoQuad – South Groveland Quadrangle



600 Unicorn Park Drive  
Woburn, MA 01801



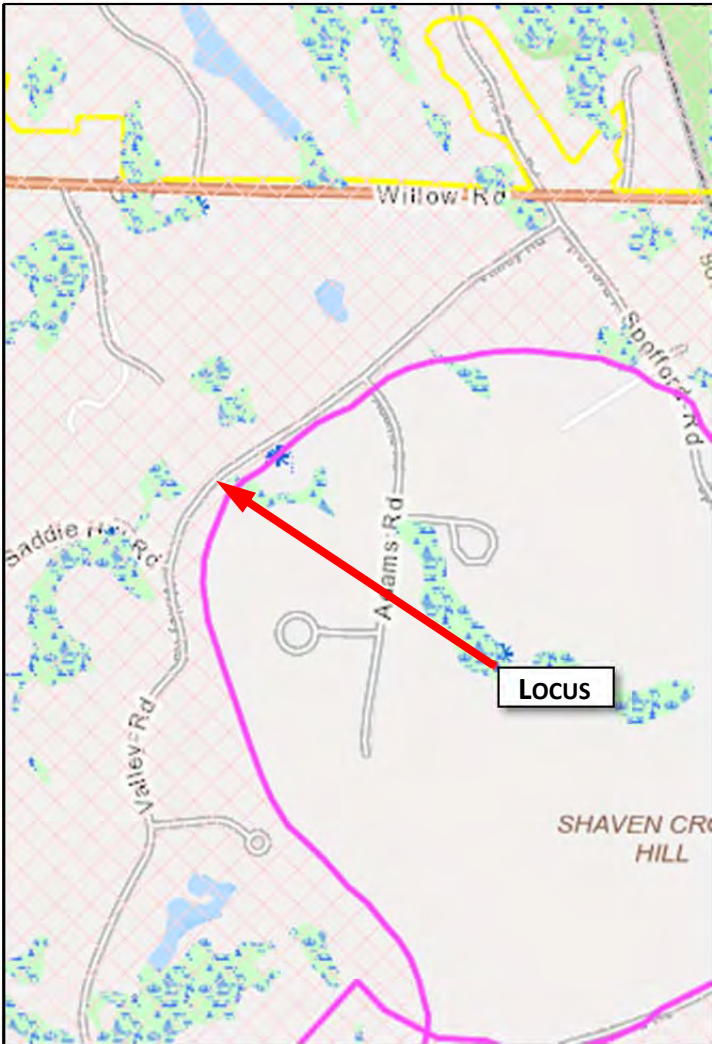
# PROJECT LOCUS COLOR ORHTOPHOTO

## CULVERT REPLACEMENT VALLEY ROAD OVER UNNAMED BROOK BOXFORD, MA







# ENVIRONMENTAL RESOURCES

## CULVERT REPLACEMENT VALLEY ROAD OVER UNNAMED BROOK BOXFORD, MA



Data Source: MassGIS OLIVER Data Viewer



### NHESP Data

-  NHESP Priority Habitat of Rare Species
-  NHESP Estimated Habitat of Rare Wildlife
-  Certified Vernal Pool
-  Potential Vernal Pool




### Wetlands

-  Marsh/Bog
-  Wooded Marsh
-  Cranberry Bog
-  Salt Marsh
-  Open Water
-  Reservoir w/PWSID
-  Tidal Flats
-  Beach/Dune

### Regulated Areas

-  Zone II Well Area
-  IWPA

### Outstanding Resource Waters (ORW)

-  ORW for ACEC
-  PWS Contributor
-  ORW for PWS and Other

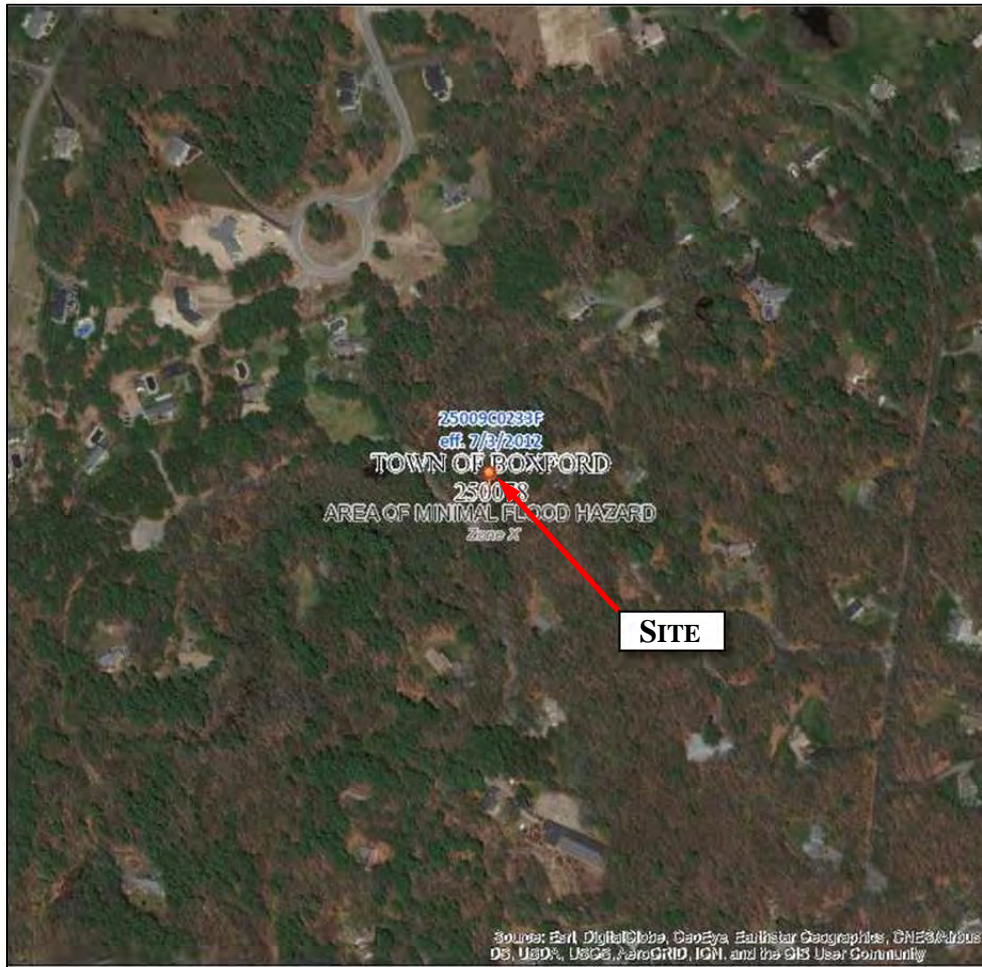


600 Unicorn Park Drive  
Woburn, MA 01801






# FLOOD HAZARD ZONES

## CULVERT REPLACEMENT VALLEY ROAD OVER UNNAMED BROOK BOXFORD, MA



### Legend

-  1% Annual Chance Flood (100-year)
-  0.2% Annual Chance Flood (500-year)
-  Regulatory Floodway



600 Unicorn Park Drive  
Woburn, MA 01801



Site Photos  
Valley Road Culvert Replacement – Boxford



**Photo No. 1** – Valley Road looking southwest



**Photo No. 2** – Valley Road looking northeast



Site Photos  
Valley Road Culvert Replacement – Boxford



**Photo No. 3** – Looking east at upstream channel



**Photo No. 4** – Looking west at downstream channel



Site Photos  
Valley Road Culvert Replacement – Boxford



**Photo No. 5** – Looking upstream from headwall



**Photo No. 6** – 18-inch corrugated metal pipe upstream invert



Site Photos  
Valley Road Culvert Replacement – Boxford



**Photo No. 7** – 18-inch corrugated metal pipe downstream invert



**Photo No. 8** – Looking downstream from headwall



Site Photos  
Valley Road Culvert Replacement – Boxford



**Photo No. 9** – Outlet plunge pool



**Photo No. 10** – West (downstream) headwall

## **PROJECT DESCRIPTION**

### **CULVERT REPLACEMENT VALLEY ROAD OVER UNNAMED BROOK BOXFORD, MA**

#### **Introduction**

The Town of Boxford is planning to replace an 18-inch corrugated metal pipe (CMP) on Valley Road over an unnamed brook. The CMP is undersized and being replaced with a 7' high x 8' wide precast concrete box culvert to meet the Massachusetts River and Stream Crossing Standards.

#### **Existing Site Conditions**

The crossing is located in Boxford on Valley Road just north of the 67 Valley Road driveway. The existing culvert is an 18-inch CMP measuring 43 feet in length. The headwalls are constructed of dry-laid stone masonry. The downstream headwall has partially collapsed as a result of roadway runoff and roadway overtopping during high-flow storm events.

Fieldwork was performed to document existing site conditions including bordering vegetated wetland delineation, mean annual high water/ordinary high water, topographic survey, stream bankfull width measurements, stream grade control elements, streambed elements, and streambed material documentation.

A topographic survey of the site and surroundings was performed including 100 feet along the road to the north and 200 feet to the south. The stream was surveyed 300 feet upstream and downstream.

#### **Existing Resource Areas**

A wetland resource evaluation was performed by Robert Prokop in August 2016. Based on this evaluation, the site includes following resource areas:

Intermittent Stream – Based on the evaluation and USGS map, it is determined that the stream is intermittent. Note – the stream is shown incorrectly on the map. Field investigation confirmed that there is no hydraulic connection to the east side of Valley road as shown on the map. The project culvert is the only connection in the area.

NHESP Habitat - The site does not include mapped Estimated Habitat of Rare Wildlife or Priority Habitat according to the most recent MassGIS MDFW/NHESP data layer (see attachment 3).

Zone II wellhead protection area – The project is located within a MassDEP designated Zone II public water supply protection area.

### Proposed Replacement

The project will include the following:

- Replacement of the existing 18-inch CMP with a 7' high x 8' wide precast concrete box culvert.
- Installation of cast-in-place concrete wingwalls on all 4 corners of the new box culvert.
- Replacement of 100 feet of existing asphalt wearing course that spans over the culvert and into both roadway approaches.
- Installation of bridge and approach guardrails.

A precast concrete box culvert was selected as the most economical option to meet the hydraulic and geotechnical site constraints.

### Performance Standards

#### *Commonwealth of Massachusetts*

#### General

The following sections include how the project will comply with pertinent performance standards.

#### *310 CMR 10.55 - Bordering Vegetated Wetlands*

- 4(a) *any proposed work in a Bordering Vegetated Wetland shall not destroy or otherwise impair any portion of said area.*



The project will result in a 100 square foot increase in BVW.

- 2(d) *no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species, as identified by procedures established under 310 CMR 10.59.*

The project does not occur within NHESP mapped habitat.

*Town of Boxford Wetland Protection Regulations*

*§375-55 E Freshwater wetlands*

- E(1) General performance standards. Any proposed work in a freshwater wetland shall not destroy or otherwise impair any portion of said area. The cutting of vegetation within a freshwater wetland in order to maintain a specific successional stage, such as a wet meadow, may be permitted at the Conservation Commission's sole discretion through the filing of a notice of intent and subsequent order of conditions, or as part of a management plan approved by the Commission for a Town-owned conservation property. In addition, and at its sole discretion, the Commission may issue an order of conditions allowing work which results in the loss of up to 5000 square feet of freshwater wetlands when said area is replaced in accordance with the following conditions and any additional, specific conditions the Commission deems necessary to ensure that the replacement area will function in a manner similar to the area that will be lost.*

The project will result in no net loss of BVW.

- (G) Notwithstanding the provisions of § 375-55E(1) through (7) and § 375-55F, no project may be permitted which will have any adverse effect on specified habitat sites of rare vertebrate or invertebrate species as identified on the Natural Heritage and Endangered Species Program "Estimated Habitat Maps" on file with the Commission and identified under Section 10.59 of 310 CMR 10.00, as they may be amended.*

The project is not located within mapped NHESP habitat.

## Resource Area Impacts

The total maximum impacts from this project are anticipated to be as follows:

### Work in the stream

Streambed added	250 s.f.
Streambed lost	0 s.f.
Net Streambed	+250 s.f.

Temporary Streambed Impacts	200 s.f.
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Total Temporary and Permanent Streambed Impacts	200 s.f.
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### Bordering Vegetated Wetlands (BVW)

BVW Added	100 s.f.
Net BVW Impact	+100 s.f.

Temporary BVW Impact	145 s.f.
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Total Temporary and Permanent BVW Impacts	145 s.f.
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## Mitigation Measures

Mitigation measures are included with the project to protect the resource areas from damage during and after construction. Sediment and erosion control (BMPs) for this project include the following:

1. Sedimentation barriers shall be placed between proposed work and river.
2. Equipment refueling will not occur in areas where a spill might reach the resource areas.
3. Areas disturbed during construction will be stabilized to minimize erosion. Plantings and erosion control measures will be checked following each rain event up to one full year following construction, or until vegetation has been established.

4. Sediment and debris collected behind compost filter tubes logs, straw bales or silt fence will be removed from the site before such BMPs are removed.
5. Sedimentation barriers will not become de facto retaining walls during construction.
6. Construction work areas shall be restored to pre-existing conditions upon completion.

### Stormwater Standards Applicability

The repair project is subject to the stormwater standards, however, all of the work occurs within existing developed areas, and no there will be no adverse effect on existing runoff characteristics. A completed stormwater checklist is included.

*1. No new stormwater conveyances (e.g. outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth.*

There is no work proposed on any drainage systems, therefore, there are no new untreated stormwater outfalls proposed as part of this project.

*2. Stormwater management systems shall be designed so that post-development peak discharge rates do not exceed pre-development peak discharge rates. This Standard may be waived for discharges to land subject to coastal storm flowage as defined in 310 CMR 10.04.*

There are no changes proposed to the impervious cover. As such, stormwater runoff peak discharge rates from the proposed development will not exceed pre-development rates.

*3. Loss of annual recharge to groundwater shall be eliminated or minimized through the use of infiltration measures including environmentally sensitive site design, low impact development techniques, stormwater best management practices, and good operation and maintenance. At a minimum, the annual recharge from the post-development site shall approximate the annual recharge from pre-development conditions based on soil type. This Standard is met when the stormwater management system is designed to infiltrate the required recharge volume as determined in accordance with the Massachusetts Stormwater Handbook.*

The post infiltration rates will be unchanged.

4. *Stormwater management systems shall be designed to remove 80% of the average annual post-construction load of Total Suspended Solids (TSS). This Standard is met when:*
  - a. *Suitable practices for source control and pollution prevention are identified in a long-term pollution prevention plan, and thereafter are implemented and maintained;*
  - b. *Structural stormwater best management practices are sized to capture the required water quality volume determined in accordance with the Massachusetts Stormwater Handbook; and*
  - c. *Pretreatment is provided in accordance with the Massachusetts Stormwater Handbook.*

There are no proposed changes to the impervious cover. There will be no change in TSS at the site.

5. *For land uses with higher potential pollutant loads, source control and pollution prevention shall be implemented in accordance with the Massachusetts Stormwater Handbook to eliminate or reduce the discharge of stormwater runoff from such land uses to the maximum extent practicable. If through source control and/or pollution prevention all land uses with higher potential pollutant loads cannot be completely protected from exposure to rain, snow, snow melt, and stormwater runoff, the proponent shall use the specific structural stormwater BMPs determined by the Department to be suitable for such uses as provided in the Massachusetts Stormwater Handbook. Stormwater discharges from land uses with higher potential pollutant loads shall also comply with the requirements of the Massachusetts Clean Waters Act, M.G.L. c. 21, §§ 26-53 and the regulations promulgated there under at 314 CMR 3.00, 314 CMR 4.00 and 314 CMR 5.00.*

This project is not a land use associated with higher potential pollutant loads.

6. *Stormwater discharges within the Zone II or Interim Wellhead Protection Area of a public water supply, and stormwater discharges near or to any other critical area, require the use of the specific source control and pollution prevention measures and the specific structural stormwater best management practices determined by the Department to be suitable for managing discharges to such areas, as provided in the Massachusetts Stormwater Handbook. A discharge is near a critical area if there is a strong likelihood of a significant impact occurring to said area, taking into account site-specific factors. Stormwater discharges to Outstanding Resource Waters and Special Resource Waters shall be removed and set back from the receiving water or wetland and receive the highest and best practical method of treatment. A "storm water discharge" as defined in 314 CMR 3.04(2)(a)1 or (b) to an Outstanding Resource Water or Special Resource Water shall comply with 314 CMR 3.00*

*and 314 CMR 4.00. Stormwater discharges to a Zone I or Zone A are prohibited unless essential to the operation of a public water supply.*

The project is located within a Zone II wellhead protection zone. However, since there are no drainage systems existing or proposed and there are no proposed changes to the impervious cover. Therefore, it is unlikely that there will be any adverse impacts as a result of the project.

*7. A redevelopment project is required to meet the following Stormwater Management Standards only to the maximum extent practicable: Standard 2, Standard 3, and the pretreatment and structural best management practice requirements of Standards 4, 5, and 6. Existing stormwater discharges shall comply with Standard 1 only to the maximum extent practicable. A redevelopment project shall also comply with all other requirements of the Stormwater Management Standards and improve existing conditions.*

The entire project is a redevelopment. All existing stormwater discharges will remain unchanged.

*8. A plan to control construction-related impacts including erosion, sedimentation and other pollutant sources during construction and land disturbance activities (construction period erosion, sedimentation, and pollution prevention plan) shall be developed and implemented.*

The proposed design includes erosion and sediment controls to minimize the potential for sedimentation in down-gradient resource areas as outlined in this document and the construction plans.

*9. A long-term operation and maintenance plan shall be developed and implemented to ensure that stormwater management systems function as designed.*

An Operation and Maintenance Plan has been attached this document.

*10. All illicit discharges to the stormwater management system are prohibited.*

No known illicit discharges exist or are proposed on the site.

Alternatives Analysis

As part of work proposed in the riverfront area, an alternatives analysis was performed in accordance with the regulation requirements. The following options were investigated:

Do nothing – This option would not alter the existing riverfront area. However, the existing culvert structure will continue to degrade and impede flow causing upstream flooding and downstream erosion. This option will not improve wildlife connectivity.

Line the culvert and repair the masonry headwalls. – Culvert lining and headwall repairs will improve the pipe structure and extend the useful life. However this can increase discharge velocity as a result of reduced pipe friction, which can cause further downstream erosion and possibly cause headcutting. This option will not improve wildlife connectivity.

Culvert Replacement – Though this option requires the greatest resource area disruption and greatest expense, it would restore stream habitat, decrease velocity in the culvert and increase wildlife connectivity. This is the preferred option.

#### Abutter Notification

A Notification to Abutters form has been sent to all abutters within 250 feet of the project limits.



# Checklist for Stormwater Report

## B. Stormwater Checklist and Certification

The following checklist is intended to serve as a guide for applicants as to the elements that ordinarily need to be addressed in a complete Stormwater Report. The checklist is also intended to provide conservation commissions and other reviewing authorities with a summary of the components necessary for a comprehensive Stormwater Report that addresses the ten Stormwater Standards.

*Note:* Because stormwater requirements vary from project to project, it is possible that a complete Stormwater Report may not include information on some of the subjects specified in the Checklist. If it is determined that a specific item does not apply to the project under review, please note that the item is not applicable (N.A.) and provide the reasons for that determination.

A complete checklist must include the Certification set forth below signed by the Registered Professional Engineer who prepared the Stormwater Report.

### Registered Professional Engineer's Certification

I have reviewed the Stormwater Report, including the soil evaluation, computations, Long-term Pollution Prevention Plan, the Construction Period Erosion and Sedimentation Control Plan (if included), the Long-term Post-Construction Operation and Maintenance Plan, the Illicit Discharge Compliance Statement (if included) and the plans showing the stormwater management system, and have determined that they have been prepared in accordance with the requirements of the Stormwater Management Standards as further elaborated by the Massachusetts Stormwater Handbook. I have also determined that the information presented in the Stormwater Checklist is accurate and that the information presented in the Stormwater Report accurately reflects conditions at the site as of the date of this permit application.

Registered Professional Engineer Block and Signature



*Bree Sullivan* 6/25/18  
Signature and Date

## Checklist

**Project Type:** Is the application for new development, redevelopment, or a mix of new and redevelopment?

- New development
- Redevelopment
- Mix of New Development and Redevelopment





# Checklist for Stormwater Report

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## Checklist (continued)

**LID Measures:** Stormwater Standards require LID measures to be considered. Document what environmentally sensitive design and LID Techniques were considered during the planning and design of the project:

- No disturbance to any Wetland Resource Areas
- Site Design Practices (e.g. clustered development, reduced frontage setbacks)
- Reduced Impervious Area (Redevelopment Only)
- Minimizing disturbance to existing trees and shrubs
- LID Site Design Credit Requested:
  - Credit 1
  - Credit 2
  - Credit 3
- Use of “country drainage” versus curb and gutter conveyance and pipe
- Bioretention Cells (includes Rain Gardens)
- Constructed Stormwater Wetlands (includes Gravel Wetlands designs)
- Treebox Filter
- Water Quality Swale
- Grass Channel
- Green Roof
- Other (describe): \_\_\_\_\_

### Standard 1: No New Untreated Discharges

- No new untreated discharges
- Outlets have been designed so there is no erosion or scour to wetlands and waters of the Commonwealth
- Supporting calculations specified in Volume 3 of the Massachusetts Stormwater Handbook included.



# Checklist for Stormwater Report

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## Checklist (continued)

### Standard 2: Peak Rate Attenuation

- Standard 2 waiver requested because the project is located in land subject to coastal storm flowage and stormwater discharge is to a wetland subject to coastal flooding.
- Evaluation provided to determine whether off-site flooding increases during the 100-year 24-hour storm.
- Calculations provided to show that post-development peak discharge rates do not exceed pre-development rates for the 2-year and 10-year 24-hour storms. If evaluation shows that off-site flooding increases during the 100-year 24-hour storm, calculations are also provided to show that post-development peak discharge rates do not exceed pre-development rates for the 100-year 24-hour storm.

### Standard 3: Recharge

- Soil Analysis provided.
- Required Recharge Volume calculation provided.
- Required Recharge volume reduced through use of the LID site Design Credits.
- Sizing the infiltration, BMPs is based on the following method: Check the method used.
  - Static
  - Simple Dynamic
  - Dynamic Field<sup>1</sup>
- Runoff from all impervious areas at the site discharging to the infiltration BMP.
- Runoff from all impervious areas at the site is *not* discharging to the infiltration BMP and calculations are provided showing that the drainage area contributing runoff to the infiltration BMPs is sufficient to generate the required recharge volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume.
- Recharge BMPs have been sized to infiltrate the Required Recharge Volume *only* to the maximum extent practicable for the following reason:
  - Site is comprised solely of C and D soils and/or bedrock at the land surface
  - M.G.L. c. 21E sites pursuant to 310 CMR 40.0000
  - Solid Waste Landfill pursuant to 310 CMR 19.000
  - Project is otherwise subject to Stormwater Management Standards only to the maximum extent practicable.
- Calculations showing that the infiltration BMPs will drain in 72 hours are provided.
- Property includes a M.G.L. c. 21E site or a solid waste landfill and a mounding analysis is included.

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<sup>1</sup> 80% TSS removal is required prior to discharge to infiltration BMP if Dynamic Field method is used.



# Checklist for Stormwater Report

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## Checklist (continued)

### Standard 3: Recharge (continued)

- The infiltration BMP is used to attenuate peak flows during storms greater than or equal to the 10-year 24-hour storm and separation to seasonal high groundwater is less than 4 feet and a mounding analysis is provided.
- Documentation is provided showing that infiltration BMPs do not adversely impact nearby wetland resource areas.

### Standard 4: Water Quality

The Long-Term Pollution Prevention Plan typically includes the following:

- Good housekeeping practices;
  - Provisions for storing materials and waste products inside or under cover;
  - Vehicle washing controls;
  - Requirements for routine inspections and maintenance of stormwater BMPs;
  - Spill prevention and response plans;
  - Provisions for maintenance of lawns, gardens, and other landscaped areas;
  - Requirements for storage and use of fertilizers, herbicides, and pesticides;
  - Pet waste management provisions;
  - Provisions for operation and management of septic systems;
  - Provisions for solid waste management;
  - Snow disposal and plowing plans relative to Wetland Resource Areas;
  - Winter Road Salt and/or Sand Use and Storage restrictions;
  - Street sweeping schedules;
  - Provisions for prevention of illicit discharges to the stormwater management system;
  - Documentation that Stormwater BMPs are designed to provide for shutdown and containment in the event of a spill or discharges to or near critical areas or from LUHPPL;
  - Training for staff or personnel involved with implementing Long-Term Pollution Prevention Plan;
  - List of Emergency contacts for implementing Long-Term Pollution Prevention Plan.
- A Long-Term Pollution Prevention Plan is attached to Stormwater Report and is included as an attachment to the Wetlands Notice of Intent.
  - Treatment BMPs subject to the 44% TSS removal pretreatment requirement and the one inch rule for calculating the water quality volume are included, and discharge:
    - is within the Zone II or Interim Wellhead Protection Area
    - is near or to other critical areas
    - is within soils with a rapid infiltration rate (greater than 2.4 inches per hour)
    - involves runoff from land uses with higher potential pollutant loads.
  - The Required Water Quality Volume is reduced through use of the LID site Design Credits.
  - Calculations documenting that the treatment train meets the 80% TSS removal requirement and, if applicable, the 44% TSS removal pretreatment requirement, are provided.



# Checklist for Stormwater Report

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## Checklist (continued)

### Standard 4: Water Quality (continued)

- The BMP is sized (and calculations provided) based on:
  - The ½" or 1" Water Quality Volume or
  - The equivalent flow rate associated with the Water Quality Volume and documentation is provided showing that the BMP treats the required water quality volume.
- The applicant proposes to use proprietary BMPs, and documentation supporting use of proprietary BMP and proposed TSS removal rate is provided. This documentation may be in the form of the propriety BMP checklist found in Volume 2, Chapter 4 of the Massachusetts Stormwater Handbook and submitting copies of the TARP Report, STEP Report, and/or other third party studies verifying performance of the proprietary BMPs.
- A TMDL exists that indicates a need to reduce pollutants other than TSS and documentation showing that the BMPs selected are consistent with the TMDL is provided.

### Standard 5: Land Uses With Higher Potential Pollutant Loads (LUHPPLs)

- The NPDES Multi-Sector General Permit covers the land use and the Stormwater Pollution Prevention Plan (SWPPP) has been included with the Stormwater Report.
- The NPDES Multi-Sector General Permit covers the land use and the SWPPP will be submitted **prior to** the discharge of stormwater to the post-construction stormwater BMPs.
- The NPDES Multi-Sector General Permit does **not** cover the land use.
- LUHPPLs are located at the site and industry specific source control and pollution prevention measures have been proposed to reduce or eliminate the exposure of LUHPPLs to rain, snow, snow melt and runoff, and been included in the long term Pollution Prevention Plan.
- All exposure has been eliminated.
- All exposure has **not** been eliminated and all BMPs selected are on MassDEP LUHPPL list.
- The LUHPPL has the potential to generate runoff with moderate to higher concentrations of oil and grease (e.g. all parking lots with >1000 vehicle trips per day) and the treatment train includes an oil grit separator, a filtering bioretention area, a sand filter or equivalent.

### Standard 6: Critical Areas

- The discharge is near or to a critical area and the treatment train includes only BMPs that MassDEP has approved for stormwater discharges to or near that particular class of critical area.
- Critical areas and BMPs are identified in the Stormwater Report.



# Checklist for Stormwater Report

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## Checklist (continued)

### Standard 7: Redevelopments and Other Projects Subject to the Standards only to the maximum extent practicable

- The project is subject to the Stormwater Management Standards only to the maximum Extent Practicable as a:
  - Limited Project
  - Small Residential Projects: 5-9 single family houses or 5-9 units in a multi-family development provided there is no discharge that may potentially affect a critical area.
  - Small Residential Projects: 2-4 single family houses or 2-4 units in a multi-family development with a discharge to a critical area
  - Marina and/or boatyard provided the hull painting, service and maintenance areas are protected from exposure to rain, snow, snow melt and runoff
  - Bike Path and/or Foot Path
- Redevelopment Project
- Redevelopment portion of mix of new and redevelopment.
- Certain standards are not fully met (Standard No. 1, 8, 9, and 10 must always be fully met) and an explanation of why these standards are not met is contained in the Stormwater Report.
- The project involves redevelopment and a description of all measures that have been taken to improve existing conditions is provided in the Stormwater Report. The redevelopment checklist found in Volume 2 Chapter 3 of the Massachusetts Stormwater Handbook may be used to document that the proposed stormwater management system (a) complies with Standards 2, 3 and the pretreatment and structural BMP requirements of Standards 4-6 to the maximum extent practicable and (b) improves existing conditions.

### Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control

A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan must include the following information:

- Narrative;
  - Construction Period Operation and Maintenance Plan;
  - Names of Persons or Entity Responsible for Plan Compliance;
  - Construction Period Pollution Prevention Measures;
  - Erosion and Sedimentation Control Plan Drawings;
  - Detail drawings and specifications for erosion control BMPs, including sizing calculations;
  - Vegetation Planning;
  - Site Development Plan;
  - Construction Sequencing Plan;
  - Sequencing of Erosion and Sedimentation Controls;
  - Operation and Maintenance of Erosion and Sedimentation Controls;
  - Inspection Schedule;
  - Maintenance Schedule;
  - Inspection and Maintenance Log Form.
- A Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan containing the information set forth above has been included in the Stormwater Report.



# Checklist for Stormwater Report

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## Checklist (continued)

### Standard 8: Construction Period Pollution Prevention and Erosion and Sedimentation Control (continued)

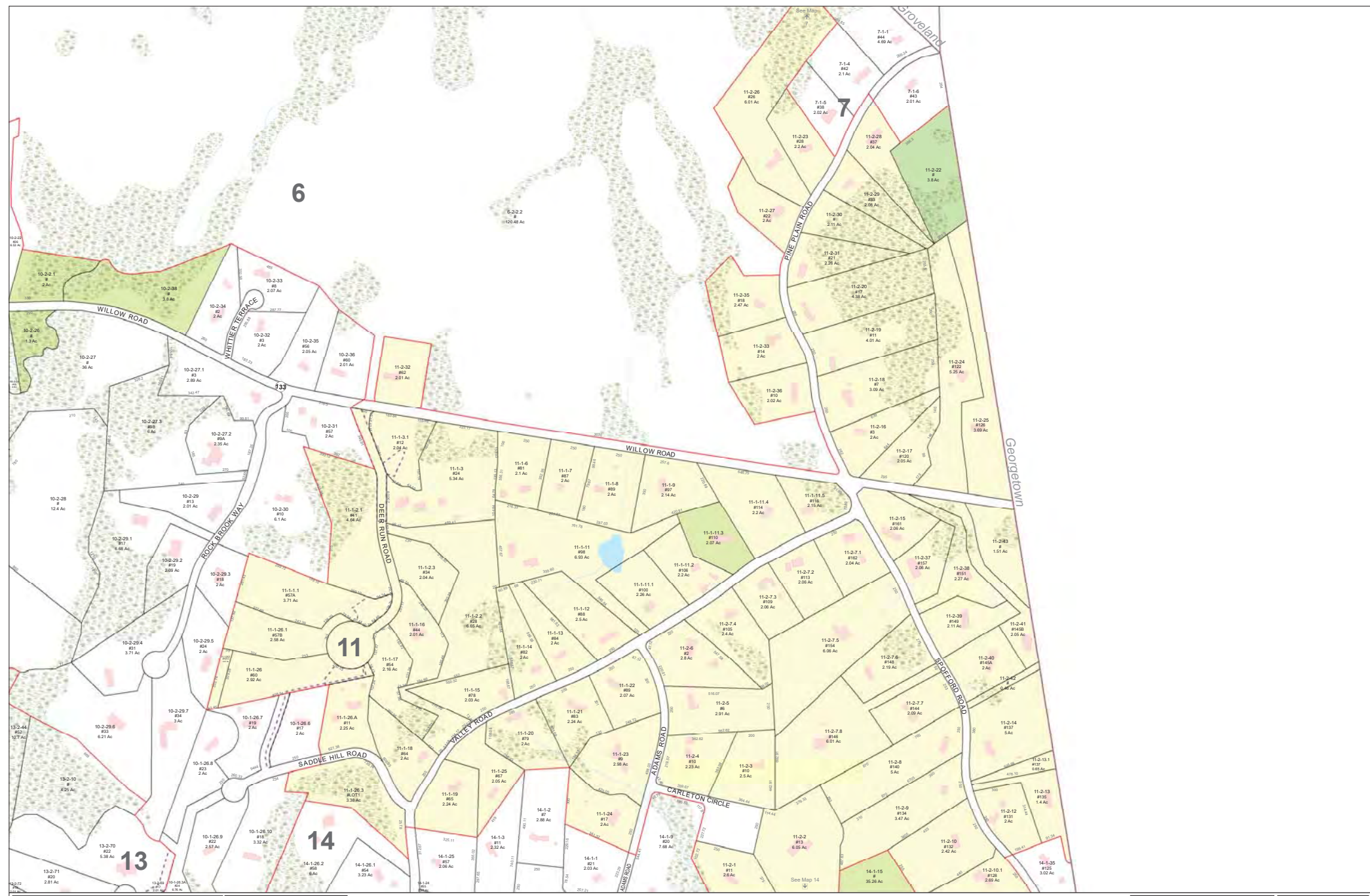
- The project is highly complex and information is included in the Stormwater Report that explains why it is not possible to submit the Construction Period Pollution Prevention and Erosion and Sedimentation Control Plan with the application. A Construction Period Pollution Prevention and Erosion and Sedimentation Control has **not** been included in the Stormwater Report but will be submitted **before** land disturbance begins.
- The project is **not** covered by a NPDES Construction General Permit.
- The project is covered by a NPDES Construction General Permit and a copy of the SWPPP is in the Stormwater Report.
- The project is covered by a NPDES Construction General Permit but no SWPPP been submitted. The SWPPP will be submitted BEFORE land disturbance begins.

### Standard 9: Operation and Maintenance Plan

- The Post Construction Operation and Maintenance Plan is included in the Stormwater Report and includes the following information:
  - Name of the stormwater management system owners;
  - Party responsible for operation and maintenance;
  - Schedule for implementation of routine and non-routine maintenance tasks;
  - Plan showing the location of all stormwater BMPs maintenance access areas;
  - Description and delineation of public safety features;
  - Estimated operation and maintenance budget; and
  - Operation and Maintenance Log Form.
- The responsible party is **not** the owner of the parcel where the BMP is located and the Stormwater Report includes the following submissions:
  - A copy of the legal instrument (deed, homeowner's association, utility trust or other legal entity) that establishes the terms of and legal responsibility for the operation and maintenance of the project site stormwater BMPs;
  - A plan and easement deed that allows site access for the legal entity to operate and maintain BMP functions.

### Standard 10: Prohibition of Illicit Discharges

- The Long-Term Pollution Prevention Plan includes measures to prevent illicit discharges;
- An Illicit Discharge Compliance Statement is attached;
- NO Illicit Discharge Compliance Statement is attached but will be submitted **prior to** the discharge of any stormwater to post-construction BMPs.



### Town of Boxford Property Parcel Maps 11

Scale: 1:2,400 1 in = 200 ft  
200 100 0 200 400 600 800 1000 Feet

Merrimack Valley Planning Commission does not make any warranty, representation or guarantee, nor assume any liability for the accuracy, completeness or timeliness of the information contained herein. The GIS data is accurate only to the date and time of the last update. The GIS data is accurate only to the date and time of the last update. The GIS data is accurate only to the date and time of the last update. The GIS data is accurate only to the date and time of the last update.

Print: J:\GIS\Boxford\BoxfordAssessor.mxd Date: 11/13/2017 10:20 AM

**Notes**  
This map is for assessment purposes only. It is not a valid document for legal description or conveyance. Lot dimensions were compiled from existing assessor maps and survey based plans. For legal determination please refer to parcel specific deeds or the Town of Boxford Assessor Office.

**Wetlands Note:** The wetlands shown on the map do not depict their actual extent or boundary. A wetlands scientist should be consulted if a delineation is required.

Map Revision Date: January 1, 2017



**Legend**

- Adjacent Maps
- Town Boundaries
- Map Boundaries
- Property Parcels
- Essments
- Building Footprint
- Hydrographic Features
- Wetlands
- Commercial Land Use
- Industrial Land Use
- Exempt Lands
- State
- County
- Municipal
- Private



**TOWN OF BOXFORD  
 ABUTTER LIST  
 ABUTTERS WITHIN 250' OF THE ROADWAY ON VALLEY ROAD BORDERING PARCEL #s 11-1-25 11-1-2.2  
 DPW CULVERT REPLACEMENT PROJECT - FOR CONSERVATION COMMISSION**

Map/Lot	Location	Owner	Owner 2	Owner Address	Owner City/Town	Owner State	Zip Code
(14-01-25)	57 VALLEY RD	BESSE BRIAN D		57 VALLEY RD	BOXFORD	MA	01921
(11-01-23)	9 ADAMS RD	BISSELL ALFRED E III	BISSELL LISA A	9 ADAMS RD	BOXFORD	MA	01921
(11-01-25)	67 VALLEY RD	BUTLER SCOTT R	BUTLER KATHRYN L	67 VALLEY RD	BOXFORD	MA	01921
(11-01-02-2)	28 DEER RUN RD	CONTARINO ALFRED F JR TR	CONTARINO KATHRYN M TR	98 VALLEY ROAD	BOXFORD	MA	01921
(11-01-21)	83 VALLEY RD	DAHNE PIERRE	DAHNE INGA	83 VALLEY RD	BOXFORD	MA	01921
(11-01-20)	79 VALLEY RD	HARVEY MEGAN TR	HARVEY IRREV TR	79 VALLEY RD	BOXFORD	MA	01921
(11-01-14)	82 VALLEY RD	HOUSTON MARK W TE	HOUSTON KATHLEEN A	82 VALLEY RD	BOXFORD	MA	01921
(11-01-15)	78 VALLEY RD	KINGSBURY MICHAEL J	KLAGGES-KINGSBURY KERIN L	78 VALLEY RD	BOXFORD	MA	01921
(14-01-03)	11 CHAPLIN CIR	MILLSTEIN ROBERT E T	HELEN K MILLSTEIN	11 CHAPLIN CIRCLE	BOXFORD	MA	01921
(11-01-18)	64 VALLEY RD	MUETTERTIES ROBERT J TR	MUETTERTIES ROBYN A TR	64 VALLEY RD	BOXFORD	MA	01921
(14-01-02)	7 CHAPLIN CIR	NOVOSIELSKI ANN C		7 CHAPLIN CIR	BOXFORD	MA	01921
(11-01-19)	65 VALLEY RD	PICKERING STEVEN T	RAMSDELL CASEY	65 VALLEY RD	BOXFORD	MA	01921
(11-01-17)	54 DEER RUN RD	THE WINSLOW DRIVE REALTY GROUP LLC		24 WINSLOW DRIVE	ATKINSON	NH	03811
(11-01-24)	17 ADAMS RD	TIMMINS ANDREW	TIMMINS BRIDGET	17 ADAMS RD	BOXFORD	MA	01921

**CERTIFIED COPY**



JUNE 26, 2018