

# HANCOCK ASSOCIATES

Surveyors | Engineers | Scientists

March 23, 2022

Marlborough Conservation Commission  
140 Main Street  
Marlborough, MA 01752

**RE: 630 and 686 Forest Street – Notice of Intent**

Dear Members of the Commission,

On behalf of Yellow Brick LLC and IPG Photonics Corp (co-applicants), Hancock Associates respectfully submits this after-the-fact Notice of Intent in request for issuance of an Order of Conditions to permit emergency replacement of an existing stormwater culvert beneath a private shared access road to developed commercial properties located at 630 and 686 Forest Street in Marlborough, MA.

Yellow Brick LLC notified IPG and the Marlborough Conservation Commission of a large sink hole in the grass lawn area just north of the existing vehicle access drive. An on-site meeting was held, with Marlborough Conservation Commission, IPG and Yellow Brick, and it was suspected the existing culvert was compromised in the grass area with concern other locations may have pending failures, particularly at the active vehicular drive. Further investigation showed an existing 18-inch corrugated metal pipe (CMP) culvert with the inlet and outlet obstructed due to slope failure in the past. It is believed the culvert was installed during the original site construction likely circa 1988. A contractor hired by Yellow Brick LLC removed the culvert restrictions and a camera was inserted into the culvert. The camera video showed a fully collapsed pipe at the sink hole location. The possibility of slip lining the existing CMP with a PVC pipe was further investigated. The contractor excavated at the sink hole. Excessively large stone was unexpectedly encountered during the excavation. It is suspected this large stone was used as backfill during the culvert installation and likely contributed to the culvert failure. The excavation filled with water. During this work there was a failure of the downstream slope along the access drive. In response, the Conservation Commission issued an Enforcement Order dated March 3, 2022 mandating the contractor to immediately cease work and provide site stabilization (See Enforcement Order as Attachment C).

The contractor ceased work and provided temporary stabilization. Yellow Brick LLC retained H.W. Moore to prepare an engineering site plan with design to replace the culvert. The plan was subject to review, comments, and revisions by the City of Marlborough Engineering Department, and Bruce Saluk & Associates, an engineering firm hired on behalf of IPG Photonics Corp, LLC (property owners of 686 Forest Street). By vote of the Conservation Commission, the plan was accepted, and the Commission issued an Emergency Certification

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authorizing Yellow Brick LLC to proceed with urgent time sensitive repairs prior to issuance of an Order of Condition (See Emergency Certificate as Attachment D).

## Existing Conditions

The existing culvert was an 18-inch diameter corrugated metal pipe (CMP) located beneath a common use driveway providing access to two large commercial properties located at 630 Forest Street (owned by Yellow Brick LLC) and 686 Forest Street (owned by IPG Photonics Corp). The length of culvert is approximately 160 linear feet. The culvert provides stormwater drainage and hydrologic connectivity between vegetated wetlands and ponded areas on the upstream side of the culvert, to a stream and vegetated wetlands on the downstream side of the culvert.

Upon issuance of the Enforcement Order, the contractors installed additional sandbags at the upstream dam side of the culvert, and a pump system bypassing the culvert by pumping clean upstream water into a catch basin inlet that discharges downstream through an existing 15-inch diameter outfall. The pump is monitored and all downstream flow following installation of the pump to date has been observed to be clean and free of turbidity or sediment laden water.

Based on a review of available desktop resources to include MassGIS datalayers, Marlborough GIS datalayers, USGS 7.5-minute quadrangle maps, FEMA Flood Insurance Rate Maps (FIRMs), NRCS Soils Maps, and aerial imagery, the culvert is located within a mapped Outstanding Resource Water (ORW) associated with the Sudbury Reservoir and Framingham Reservoir #3. Otherwise, no sensitive resource areas such as Areas of Critical Environmental Concern (ACECs), NHESP mapped Priority or Estimated Rare Species Habitats, NHESP Certified or Potential Vernal Pools, Cold Water Fisheries, or Surface Water Protection Zones are mapped within the limits of work. According to the FEMA FIRM, there is no designated 100-year floodplain accruing on the property. According to the USGS 7.5-minute quadrangle map, the stream is mapped as intermittent.

Jurisdictional wetland resource areas include Bordering Vegetated Wetland (BVW), Inland Bank associated with the intermittent stream, and Land Under Water (LUW). The limit of BVW and Inland Bank was field delineated by a qualified wetland scientist with a single flag series, which was located via survey and plotted to the Site Plan herein.

## Proposed Work

In accordance with the plan, the 18-inch CMP will be replaced within the same in-kind footprint with a larger diameter 24-inch Reinforced Concrete Pipe (RCP). The trench backfill will be suitable material and the excavated stone will not be placed in the culvert trench. The

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pump bypass system will remain in service through construction, allowing the culvert replacement to take place under dry conditions. The work will entail recontouring and installation of riprap at the inlet and outlet points of the culvert. The applicant also proposes to install a semi-circulate ring of boulders within Land Under Water, offset 10-feet away from the culvert inlet to dissipate flow energy prior to discharging through the culvert. Once the culvert is installed, the contractor will backfill and repave the driveway to match existing grade.

During construction, the contractor will use all available proprietary Best Management Practices (BMPs) for erosion and sediment controls and stormwater management in protection of wetland resource areas. The Conservation Commission has also mandated that a qualified environmental monitor be retained to oversee work and provide monitoring reports to the Commission no less than once weekly until work is complete and the site is stabilized. Following construction, the Conservation Commission expressed that they want to evaluate whether there is any observable downstream sediment deposition that may require additional corrective action. This may entail passive removal of sediment with hand tools and/or application of native wetland seed mixes to provide vegetative groundcover and root stabilization.

## Conclusion

As detailed herein, the scope of work to replace the failed culvert is necessary and urgent, as approved in the Emergency Certificate. The plan has undergone review and approval by the City Engineer and 3<sup>rd</sup> party private civil engineer retained by IPG. As such, we respectfully request that the Commission consider issuance of an Order of Conditions to retroactively permit this work. Thank you.

Regards,  
Hancock Associates on behalf of Yellow Brick LLC



David Cowell, PWS, CWB, CERP  
Senior Wetland Scientist



cc: MassDEP Central Regional Office (CERO)  
Steven Turner – Yellow Brick LLC  
Richard Senecal – IPG Photonics Corp

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Attachments:

A – WPA Form 3

B – Figures

C – Enforcement Order

D – Emergency Certificate

E – Filing Fees

F – Site Plans

**Attachment A WPA Form 3**



**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 Number

Document Transaction Number

Marlborough  
City/Town

**Important:**

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Note:  
Before completing this form consult your local Conservation Commission regarding any municipal bylaw or ordinance.

**A. General Information**

1. Project Location (**Note:** electronic filers will click on button to locate project site):

<u>630 and 686 Forest Street</u>	<u>Marlborough</u>	<u>01752</u>
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:		
<u>42.322766°</u>	<u>-71.591295°</u>	
d. Latitude	e. Longitude	
<u>111</u>	<u>10 and 11</u>	
f. Assessors Map/Plat Number	g. Parcel /Lot Number	

2. Applicant:

<u>Steven</u>	<u>Turner</u>	
a. First Name	b. Last Name	
<u>Yellow Brick LLC (Property Owner of 630 Forest Street)</u>		
c. Organization		
<u>22 Temple Street</u>		
d. Street Address		
<u>Boston</u>	<u>MA</u>	<u>02114</u>
e. City/Town	f. State	g. Zip Code
<u>(617) 797-3880</u>	<u>steventurner617@gmail.com</u>	
h. Phone Number	i. Fax Number	j. Email Address

3. Property owner (required if different from applicant):  Check if more than one owner

<u>Richard</u>	<u>Senecal</u>	
a. First Name	b. Last Name	
<u>IPG Photonics Corp (Property Owner of 686 Forest Street)</u>		
c. Organization		
<u>50 Old Webster Road</u>		
d. Street Address		
<u>Oxford</u>	<u>MA</u>	<u>01540</u>
e. City/Town	f. State	g. Zip Code
<u>(774) 200-8484</u>	<u>rsenecal@ipgphotonics.com</u>	
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

<u>David</u>	<u>Cowell, PWS</u>	
a. First Name	b. Last Name	
<u>Hancock Associates</u>		
c. Company		
<u>315 Elm Street</u>		
d. Street Address		
<u>Marlborough</u>	<u>MA</u>	<u>01752</u>
e. City/Town	f. State	g. Zip Code
<u>(508) 460-1111</u>	<u>dcowell@hancockassociates.com</u>	
h. Phone Number	i. Fax Number	j. Email address

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

<u>\$1,450.00</u>	<u>\$712.50</u>	<u>\$737.50</u>
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

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

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## A. General Information (continued)

6. General Project Description:

Emergency replacement of an existing stream culvert on a developed commercial lot due to formation of a sinkhole

7a. Project Type Checklist: (Limited Project Types see Section A. 7b.)

- 1.  Single Family Home
- 2.  Residential Subdivision
- 3.  Commercial/Industrial
- 4.  Dock/Pier
- 5.  Utilities
- 6.  Coastal engineering Structure
- 7.  Agriculture (e.g., cranberries, forestry)
- 8.  Transportation
- 9.  Other

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

1.  Yes  No      If yes, describe which limited project applies to this project. (See 310 CMR 10.24 and 10.53 for a complete list and description of limited project types)

2. Limited Project Type

If the proposed activity is eligible to be treated as an Ecological Restoration Limited Project (310 CMR10.24(8), 310 CMR 10.53(4)), complete and attach Appendix A: Ecological Restoration Limited Project Checklist and Signed Certification.

8. Property recorded at the Registry of Deeds for:

Southern Middlesex

a. County

66169 / 71898

c. Book

b. Certificate # (if registered land)

37 / 106

d. Page Number

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

- 1.  Buffer Zone Only – 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).

Check all that apply below. Attach narrative and any supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.



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

For all projects affecting other Resource Areas, please attach a narrative explaining how the resource area was delineated.

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet _____	2. linear feet _____
b. <input type="checkbox"/> Bordering Vegetated Wetland	1. square feet _____	2. square feet _____
c. <input checked="" type="checkbox"/> Land Under Waterbodies and Waterways	100 1. square feet _____ 3. cubic yards dredged _____	0 2. square feet _____

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet _____ 3. cubic feet of flood storage lost _____	2. square feet _____ 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. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - <b>specify coastal or inland</b> _____ 2. Width of Riverfront Area (check one): <input type="checkbox"/> 25 ft. - Designated Densely Developed Areas only <input type="checkbox"/> 100 ft. - New agricultural projects only <input type="checkbox"/> 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

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

**Note:** for coastal riverfront areas, please complete **Section B.2.f.** above.





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

Check all that apply below. Attach narrative and supporting documentation describing how the project will meet all performance standards for each of the resource areas altered, including standards requiring consideration of alternative project design or location.

Online Users:  
Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
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 Beach	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
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
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., creation
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. <input type="checkbox"/> Restoration/Enhancement	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 enter the additional amount here.	
	_____	_____
	a. square feet of BVW	b. square feet of Salt Marsh
5. <input checked="" type="checkbox"/> Project Involves Stream Crossings		
	0	1
	a. number of new stream crossings	b. number of replacement stream crossings



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## C. Other Applicable Standards and Requirements

- This is a proposal for an Ecological Restoration Limited Project. Skip Section C and complete Appendix A: Ecological Restoration Limited Project Checklists – Required Actions (310 CMR 10.11).

### 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 and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to [http://maps.massgis.state.ma.us/PRI\\_EST\\_HAB/viewer.htm](http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm).

- a.  Yes  No **If yes, include proof of mailing or hand delivery of NOI to:**

MassMapper  
3/21/22

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

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18). To qualify for a streamlined, 30-day, MESA/Wetlands Protection Act review, please complete Section C.1.c, and include requested materials with this Notice of Intent (NOI); *OR* complete Section C.2.f, if applicable. *If MESA supplemental information is not included with the NOI, by completing Section 1 of this form, the NHESP will require a separate MESA filing which may take up to 90 days to review (unless noted exceptions in Section 2 apply, see below).*

- c. Submit Supplemental Information for Endangered Species Review\*

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

2.  Project plans for entire project site, including wetland resource areas and areas outside of wetlands 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

\* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review (see <https://www.mass.gov/endangered-species-act-mesa-regulatory-review>).

Priority Habitat includes habitat for state-listed plants and strictly upland species not protected by the Wetlands Protection Act.

\*\* MESA projects may not be segmented (321 CMR 10.16). The applicant must disclose full development plans even if such plans are not required as part of the Notice of Intent process.



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**C. Other Applicable Standards and Requirements (cont'd)**

- (c)  MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).

Make check payable to "Commonwealth of Massachusetts - NHESP" 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
- (f) 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, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; 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 # \_\_\_\_\_ b. Date submitted to NHESP \_\_\_\_\_

3.  Separate MESA review completed.  
Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

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

- a.  Not applicable – project is in inland resource area only      b.  Yes     No

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

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

North Shore - Hull to New Hampshire border:

Division of Marine Fisheries -  
Southeast Marine Fisheries Station  
Attn: Environmental Reviewer  
836 South Rodney French Blvd.  
New Bedford, MA 02744  
Email: [dmf.envreview-south@mass.gov](mailto:dmf.envreview-south@mass.gov)

Division of Marine Fisheries -  
North Shore Office  
Attn: Environmental Reviewer  
30 Emerson Avenue  
Gloucester, MA 01930  
Email: [dmf.envreview-north@mass.gov](mailto:dmf.envreview-north@mass.gov)

Also if yes, the project 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.

- c.  Is this an aquaculture project?      d.  Yes     No

If yes, include a copy of the Division of Marine Fisheries Certification Letter (M.G.L. c. 130, § 57).



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Include your document transaction number (provided on your receipt page) with all supplementary information you submit to the Department.

**C. Other Applicable Standards and Requirements (cont'd)**

- 4. 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 MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.  
 b. ACEC

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- 5. 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
- 6. 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
- 7. 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. Check why the project is exempt:
  - 1.  Single-family house
  - 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**

- This is a proposal for an Ecological Restoration Limited Project. Skip Section D and complete Appendix A: Ecological Restoration Notice of Intent – Minimum Required Documents (310 CMR 10.12).

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.

- 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.



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## D. Additional Information (cont'd)

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.

Culvert Replacement Plan

a. Plan Title

H.W. Moore Associates

b. Prepared By

March 21, 2022

d. Final Revision Date

Anthony Donato, P.E.

c. Signed and Stamped by

1"=20'

e. Scale

f. Additional Plan or Document Title

g. Date

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.

## 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:

1574

2. Municipal Check Number

1573

4. State Check Number

Yellow Brick LLC

6. Payor name on check: First Name

March 23, 2022

3. Check date

March 23, 2022

5. Check date

7. Payor name on check: Last Name



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**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

*[Handwritten signature]*

2. Date

*22 MARCH 2022*

3. Signature of Property Owner (if different)

*Steven Turner*

4. Date

5. Signature of Representative (if any)

6. Date

Signature of Steven Turner, authorized signatory on behalf of Yellow Brick LLC for 630 Forest Street

**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 any part of Section C, Item 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.



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City/Town

## 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.

*Richard R. Senecal, AIA*

March 23, 2022

1. Signature of Applicant

2. Date

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (if any)

6. Date

*Signature of Richard Senecal, authorized signatory on behalf of IPG Photonics Corp for 686 Forest Street*

### 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 any part of Section C, Item 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.

**Attachment B Figures**



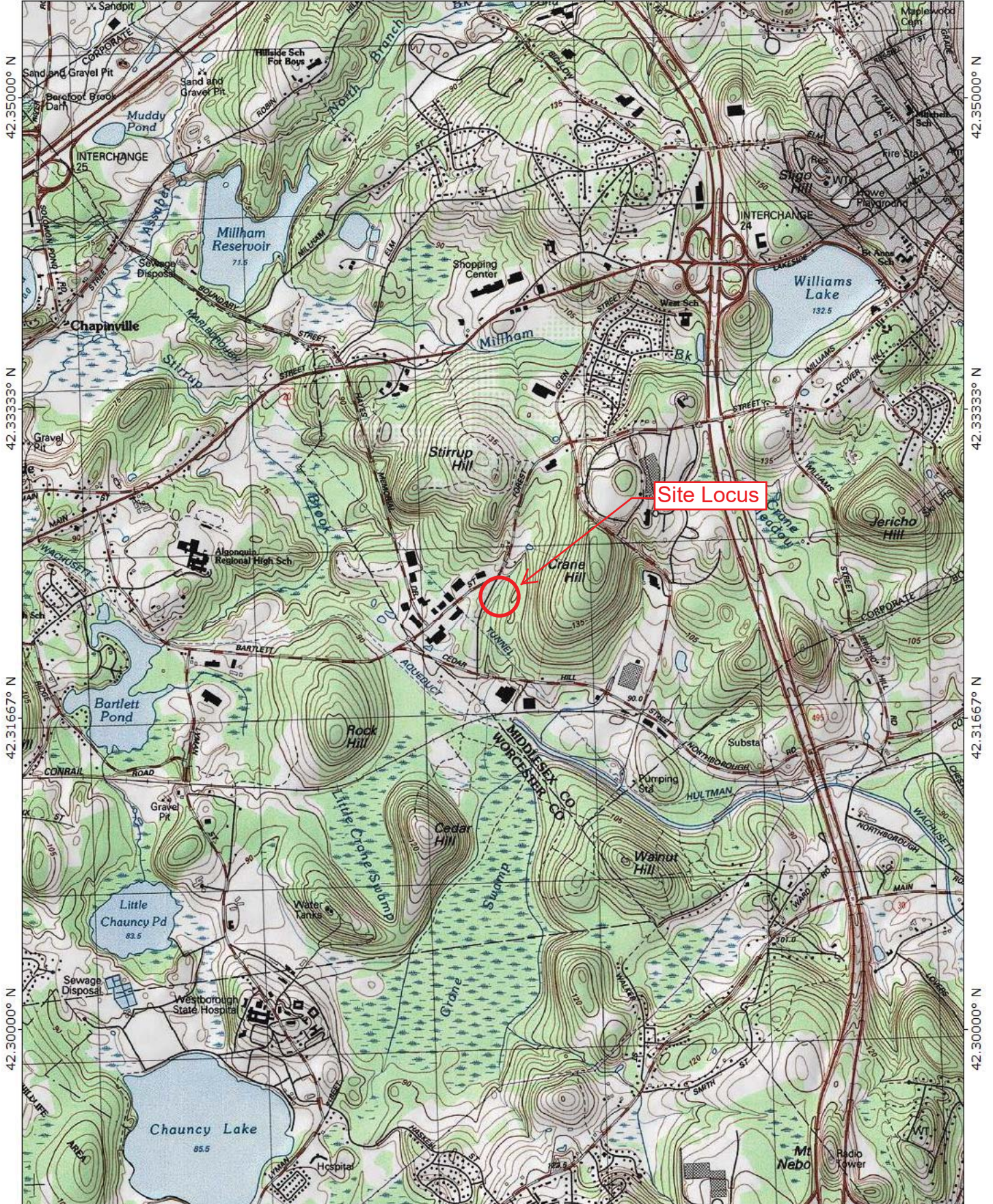
630 and 686 Forest Street, Marlborough, MA Locus Map

71.61667° W

71.60000° W

71.58333° W

WGS84 71.56667° W



42.35000° N

42.33333° N

42.31667° N

42.30000° N

42.35000° N

42.33333° N

42.31667° N

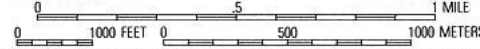
42.30000° N

71.61667° W

71.60000° W

71.58333° W

WGS84 71.56667° W



**Attachment C Enforcement Order**



## City of Marlborough Conservation Commission

140 Main Street  
Marlborough, Massachusetts 01752  
Tel. (508) 460-3768 Facsimile (508) 460-3747

Edward Clancy – Chairman  
Dennis Demers  
John Skarin  
Allan White  
David Williams  
Karin Paquin  
William Dunbar  
Priscilla Ryder Conservation Officer

March 2, 2022

Steven M. Turner  
Yellow Brick LLC  
22 Temple St.  
Boston, MA 02114

[steventurner617@gmail.com](mailto:steventurner617@gmail.com)

RE: Wetland Enforcement Order for work at 630 Forest St. Marlborough MA

On February 17, 2022, after being notified by two Conservation Commission members of activity at 630 Forest St. I inspected the site and found work being performed without a permit and major excavation in progress and little or no erosion control or construction sequencing protocol in place (see photos below). On site was a contractor from E. W. Wood Contractors who had an excavator in the hole looking for the collapsed pipe. Water was being pumped around the site, but the upstream pipe had not been plugged so water was still flowing through the site creating a muddy mess. Immediate measures were required to get the site under control including adding erosion controls, sandbags upstream to help pump only clean water around excavation and establishing a pumping system that would safeguard the site. After several phone calls and several days of site visits with the City Engineer Tom DiPersio it was determined that the following measures had to be taken. These measures were spelled out in an e-mail on Feb. 22, 2022, to you and your partner Peter Venuto and are memorialized below. We understand some of the items have already been addressed and some still need to be addressed:

### **Immediate needs- beginning Feb. 22, 2022**

1. Get a Professional Engineer on board ASAP to help direct the current situation and design the solution!! Engineer should direct design of solution, direct erosion control needs, oversee construction and stabilization of the site
2. Stabilize the site upstream and downstream with additional sandbags or other suitable controls to separate the disturbed area of the site from the adjacent wetlands and prevent further siltation
3. Continue pumping and monitoring the pumping until a new pipe is installed
4. Continue monitoring the downstream "cliff" and add erosion controls so that any soil slumping is captured and does not get washed into the stream
5. Daily evaluation of the site, especially during storm events which started this afternoon

2/22/22

6. Only erosion control and stabilization work are permitted until a plan has been submitted and approved by the City Engineer.

These measures must continue until the project is complete

**Needed in next few days and week**

7. Engineering design of the solution is to be submitted to Tom DiPersio City Engineer and to the Conservation Commission. This plan will include, erosion control measures, pumping requirements, pipe installation requirements etc. and site stabilization measures. ONLY WHEN THE PLAN HAS BEEN APPROVED CAN WE CONSIDER ISSUANCE OF AN EMERGENCY PERMIT, AND ONLY IF THE COMMISSION AGREES.

8. You will also need to hire a wetland consultant to evaluate and inspect the downstream damage that has occurred due to the extensive silt that was washed down stream. A list of consultants was provided in the Feb. 22, 2022, e-mail.

9. Someone from your team is required to attend the Commission's next Conservation Commission meeting on Thursday March 3, at 7:00 PM in City Hall, 3rd floor memorial hall. Be prepared to explain why this costly mistake occurred, discuss the solution and stabilization.

10. You will need to file for a Notice of Intent (wetland permit) even if an emergency permit is issue, to memorialize the plan and to ensure ongoing monitoring etc. The engineer and wetland consultant should be able to address this. This should be filed on or before March 4th, for the March 17th meeting if possible. If not, then the following meeting is April 7th with a filing deadline of March 24th. This will likely be an after the fact review but IS REQUIRED.

This violation carries of fine of \$300. Please pay the enclosed ticket with a check made payable to "City of Marlborough" and provide to the City Clerk's office.

Your cooperation is appreciated and required. Any questions on the above please let me know.

Sincerely,

  
Priscilla Ryder  
Conservation/ Sustainability Officer

Encl. Enforcement Order  
Ticket #0341

Cc: Con. Com.

Upstream of drainage culvert- see corrugated inlet pipe at bottom of photo



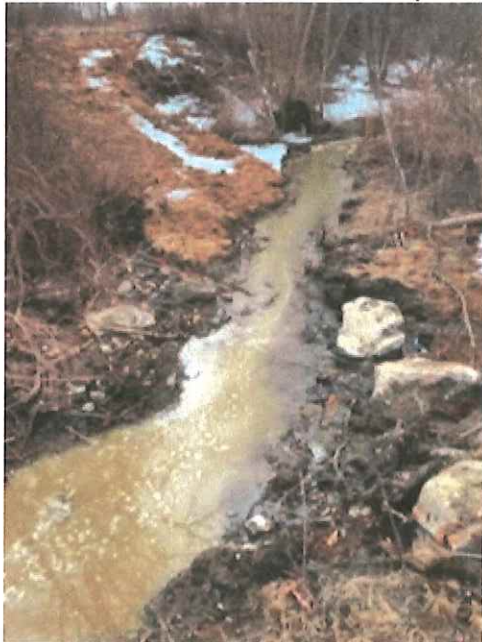
Excavator in hole between inlet and outlet pipe.



Downstream pipe exposed, and slopes completely unstable.



Downstream – stream channel silty.



Photos taken by Conservation Commission member William Dunbar on 2-17-22



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**WPA Form 9 – Enforcement Order**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

none

**A. Violation Information**

**Important:**  
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



This Enforcement Order is issued by:

Marlborough Conservation Commission 3/3/22  
 Conservation Commission (Issuing Authority) Date

To:

Steve Turner of Yellow Brick LLC  
 Name of Violator  
22 Temple St., Boston MA 02114  
 Address

1. Location of Violation:

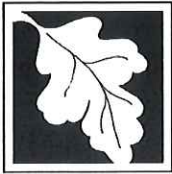
Yellow Brick LLC  
 Property Owner (if different)  
630 Forest St.  
 Street Address  
Marlborough, MA 01752  
 City/Town Zip Code  
111 11  
 Assessors Map/Plat Number Parcel/Lot Number

2. Extent and Type of Activity (if more space is required, please attach a separate sheet):

Excavation work to fix a drainage culvert which drains under a driveway between two wetlands was done without a permit and excavation was extensive. Pipe was 10+ feet below surface. Upstream water was not controlled and muddy water was running through the site. Muddy water was exiting the site into adjacent stream. All work was halted except for pumping clean water around excavation and work to stabilize both the upstream and downstream pipe openings which had both been excavated. Erosion controls were required to be added by the Conservation Officer to stabilize the site. No engineered drawings or protocols were available, no engineer was directing the project. Wetland was silted down stream requiring remediation.

**B. Findings**

The Issuing Authority has determined that the activity described above is in a resource area and/or buffer zone and is in violation of the Wetlands Protection Act (M.G.L. c. 131, § 40) and its Regulations (310 CMR 10.00), because:



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**WPA Form 9 – Enforcement Order**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

none \_\_\_\_\_

the activity has been/is being conducted in an area subject to protection under c. 131, § 40 or the buffer zone without approval from the issuing authority (i.e., a valid Order of Conditions or Negative Determination).

**B. Findings (cont.)**

the activity has been/is being conducted in an area subject to protection under c. 131, § 40 or the buffer zone in violation of an issuing authority approval (i.e., valid Order of Conditions or Negative Determination of Applicability) issued to:

Name \_\_\_\_\_ Dated \_\_\_\_\_

File Number \_\_\_\_\_ Condition number(s) \_\_\_\_\_

The Order of Conditions expired on (date): \_\_\_\_\_ Date \_\_\_\_\_

The activity violates provisions of the Certificate of Compliance.

The activity is outside the areas subject to protection under MGL c.131 s.40 and the buffer zone, but has altered an area subject to MGL c.131 s.40.

Other (specify):

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**C. Order**

The issuing authority hereby orders the following (check all that apply):

The property owner, his agents, permittees, and all others shall immediately cease and desist from any activity affecting the Buffer Zone and/or resource areas.

Resource area alterations resulting from said activity shall be corrected and the resource areas returned to their original condition.

A restoration plan shall be filed with the issuing authority on or before 3/3/22  
 Date

for the following:

see attached letter with steps that must be taken to stabilize the site, and provide a plan to move forward, and file with the conservation commission.





**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**WPA Form 9 – Enforcement Order**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

none \_\_\_\_\_

The restoration shall be completed in accordance with the conditions and timetable established by the issuing authority.

**C. Order (cont.)**

Complete the attached Notice of Intent (NOI). The NOI shall be filed with the Issuing Authority on or before:

3/4/22

Date

for the following:

engineered design solution, construction phasing, site stabilization and downstream wetland restoration.

No further work shall be performed until a public hearing has been held and an Order of Conditions has been issued to regulate said work.

The property owner shall take the following action (e.g., erosion/sedimentation controls) to prevent further violations of the Act:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Failure to comply with this Order may constitute grounds for additional legal action. Massachusetts General Laws Chapter 131, Section 40 provides: "Whoever violates any provision of this section (a) shall be punished by a fine of not more than twenty-five thousand dollars or by imprisonment for not more than two years, or both, such fine and imprisonment; or (b) shall be subject to a civil penalty not to exceed twenty-five thousand dollars for each violation". Each day or portion thereof of continuing violation shall constitute a separate offense.

**D. Appeals/Signatures**

An Enforcement Order issued by a Conservation Commission cannot be appealed to the Department of Environmental Protection, but may be filed in Superior Court.

Questions regarding this Enforcement Order should be directed to:

Priscilla Ryder

Name

508-460-3768

Phone Number

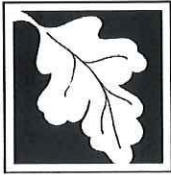
M-F 8:30-5

Hours/Days Available

Issued by:

Marlborough Conservation Commission

Conservation Commission



**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**WPA Form 9 – Enforcement Order**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

none

Conservation Commission signatures required on following page.

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**D. Appeals/Signatures (cont.)**

In a situation regarding immediate action, an Enforcement Order may be signed by a single member or agent of the Commission and ratified by majority of the members at the next scheduled meeting of the Commission.

Signatures:

Priscilla Ryder      Agent  
 Signature

Priscilla Ryder  
 Printed Name

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Printed Name

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Printed Name

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 Printed Name

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 Signature

\_\_\_\_\_  
 Printed Name

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Printed Name

Priscilla Ryder  
 Signature of delivery person or certified mail number

**Attachment D Emergency Certificate**



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Wetlands

# WPA Emergency Certification Form

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

## A. Emergency Information

**Important:**  
When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



Issuance From: Marlborough Conservation Commission  
Issuing Authority

1. Site Location: 630 & 686 Forest St.

2. Reason for Emergency:  
Sink hole excavation without a permit leaving the site unstable, emergency work needed to get the site under control and stable before spring rains come, to limit further downstream impacts.

3. Applicant to perform work: Yellow Brick LLC- owner. They hired contractor E. W. Wood

4. Public agency to perform work or public agency ordering the work to be performed:  
ordering work: city of marlborough Conservation and Engineering

5. Date of Site Visit: 3/17/22 Start Date: 3/18/22 End Date\*: 4/18/22

\* no later than 30 days from start date or 60 days in the case of an Immediate Response Action approved by DEP to address an oil/hazardous material release.

6. Work to be allowed\*:  
Work as outlined in the draft plan titled: Culvert Replacement Plan, by H.W. Moore dated March 11, 2022, as amended by comments from Bruce Saluk 3/11/22 stamped by Anthony Donato P.E.

This emergency order allows for the replacement of the culvert, backfilling and stabilization of the slopes with riprap as described on the plan. A Notice of Intent is required to be submitted on or before March 24<sup>th</sup> which will outline the downstream restoration and culvert replacement process. Once an Order of Conditions is issued, this project will proceed under those conditions and this emergency certification shall become invalid.

\* May not include work beyond that necessary to abate the emergency.




**Massachusetts Department of Environmental Protection**  
 Bureau of Resource Protection - Wetlands  
**WPA Emergency Certification Form**  
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

**B. Signatures**

Certified to be an Emergency by this Issuing Authority.

Marlborough Conservation Commission

Signatures:	
	<i>Priscilla Ryder</i> Conservation officer
Signature	Printed Name
Signature	Printed Name
Signature	Printed Name
Signature	Printed Name
Signature	Printed Name
Signature	Printed Name
Signature	Printed Name
Signature	Printed Name

**A copy of this form must be provided to the appropriate DEP Regional Office.**

**C. General Conditions**

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Emergency Certification or subject to enforcement action.
2. This Emergency Certification does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of property rights.
3. This Emergency Certification does not relieve the applicant or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. Any work conducted beyond that described above, and any work conducted beyond that necessary to abate the emergency, shall require the filing of a Notice of Intent.
5. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Emergency Certification at reasonable hours to evaluate compliance with this Certification, and may require the submittal of any data deemed necessary by the Conservation Commission or the Department for that evaluation.
6. This Emergency Certification shall apply to any contractor or any other person performing work authorized under this Certification.
7. No work may be authorized beyond 30 days from the date of this certification without written approval of the Department.



**Massachusetts Department of Environmental Protection**  
Bureau of Resource Protection - Wetlands

## **WPA Emergency Certification Form**

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

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### **D. Special Conditions**

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### **E. Appeals**

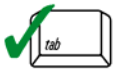
The Department may, on its own motion or at the request of any person, review: an emergency certification issued by a conservation commission and any work permitted thereunder; a denial by a conservation commission of a request for emergency certification; or the failure by a conservation commission to act within 24 hours of a request for emergency certification. Such review shall not operate to stay the work permitted by the emergency certification unless the Department specifically so orders. The Department's review shall be conducted within seven days of: issuance by a conservation commission of the emergency certification; denial by a conservation commission of the emergency certification; or failure by a conservation commission to act within 24 hours of a request for emergency certification. If certification was improperly granted, or the work allowed thereunder is excessive or not required to protect the health and safety of citizens of the Commonwealth, the Department may revoke the emergency certification, condition the work permitted thereunder, or take such other action as it deems appropriate.

**Attachment E Filing Fees**



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

**Important:** When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



**A. Applicant Information**

1. Location of Project:

630 and 686 Forest Street  
 a. Street Address  
 1573  
 c. Check number  
 Marlborough  
 b. City/Town  
 \$712.50  
 d. Fee amount

2. Applicant Mailing Address:

Steven  
 a. First Name  
 Turner  
 b. Last Name  
 Yellow Brick LLC (Property Owner of 630 Forest Street)  
 c. Organization  
 22 Temple Street  
 d. Mailing Address  
 Boston  
 e. City/Town  
 MA  
 f. State  
 02114  
 g. Zip Code  
 (617) 797-3880  
 h. Phone Number  
 i. Fax Number  
 steventurner617@gmail.com  
 j. Email Address

3. Property Owner (if different):

Richard  
 a. First Name  
 Senecal  
 b. Last Name  
 IPG Photonics Corp (Property Owner of 686 Forest Street)  
 c. Organization  
 50 Old Webster Road  
 d. Mailing Address  
 Oxford  
 e. City/Town  
 MA  
 f. State  
 01540  
 g. Zip Code  
 (774) 200-8484  
 h. Phone Number  
 i. Fax Number  
 rsenecal@ipgphotonics.com  
 j. Email Address

To calculate filing fees, refer to the category fee list and examples in the instructions for filling out WPA Form 3 (Notice of Intent).

**B. Fees**

Fee should be calculated using the following process & worksheet. **Please see Instructions before filling out worksheet.**

**Step 1/Type of Activity:** Describe each type of activity that will occur in wetland resource area and buffer zone.

**Step 2/Number of Activities:** Identify the number of each type of activity.

**Step 3/Individual Activity Fee:** Identify each activity fee from the six project categories listed in the instructions.

**Step 4/Subtotal Activity Fee:** Multiply the number of activities (identified in Step 2) times the fee per category (identified in Step 3) to reach a subtotal fee amount. Note: If any of these activities are in a Riverfront Area in addition to another Resource Area or the Buffer Zone, the fee per activity should be multiplied by 1.5 and then added to the subtotal amount.

**Step 5/Total Project Fee:** Determine the total project fee by adding the subtotal amounts from Step 4.

**Step 6/Fee Payments:** To calculate the state share of the fee, divide the total fee in half and subtract \$12.50. To calculate the city/town share of the fee, divide the total fee in half and add \$12.50.





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

**B. Fees** (continued)

Step 1/Type of Activity	Step 2/Number of Activities	Step 3/Individual Activity Fee	Step 4/Subtotal Activity Fee
Category 4.a.	1	\$1,450.00	\$1,450.00
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<b>Step 5/Total Project Fee:</b>			\$1,450.00
<b>Step 6/Fee Payments:</b>			
Total Project Fee:			\$1,450.00
State share of filing Fee:			\$712.50
City/Town share of filing Fee:			\$737.50
			a. Total Fee from Step 5
			b. 1/2 Total Fee <b>less</b> \$12.50
			c. 1/2 Total Fee <b>plus</b> \$12.50

**C. Submittal Requirements**

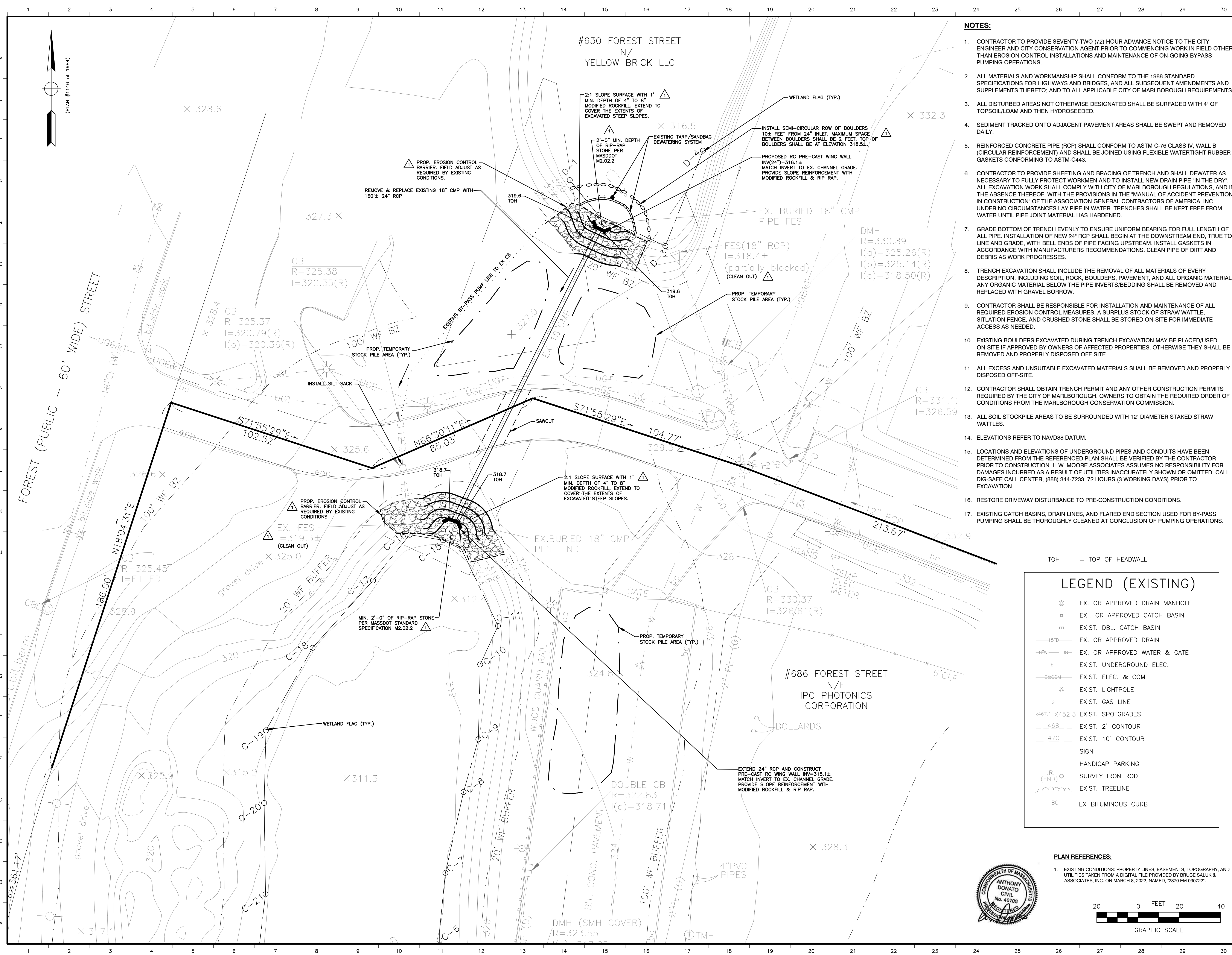
- a.) Complete pages 1 and 2 and send with a check or money order for the state share of the fee, payable to the Commonwealth of Massachusetts.

Department of Environmental Protection  
 Box 4062  
 Boston, MA 02211

- b.) **To the Conservation Commission:** Send the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and the city/town fee payment.

**To MassDEP Regional Office** (see Instructions): Send a copy of the Notice of Intent or Abbreviated Notice of Intent; a **copy** of this form; and a **copy** of the state fee payment. (E-filers of Notices of Intent may submit these electronically.)

## **Attachment F Culvert Replacement Plan**



- NOTES:**
- CONTRACTOR TO PROVIDE SEVENTY-TWO (72) HOUR ADVANCE NOTICE TO THE CITY ENGINEER AND CITY CONSERVATION AGENT PRIOR TO COMMENCING WORK IN FIELD OTHER THAN EROSION CONTROL INSTALLATIONS AND MAINTENANCE OF ON-GOING BYPASS PUMPING OPERATIONS.
  - ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 1988 STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, AND ALL SUBSEQUENT AMENDMENTS AND SUPPLEMENTS THERETO; AND TO ALL APPLICABLE CITY OF MARLBOROUGH REQUIREMENTS.
  - ALL DISTURBED AREAS NOT OTHERWISE DESIGNATED SHALL BE SURFACED WITH 4" OF TOPSOIL/LOAM AND THEN HYDROSEED.
  - SEDIMENT TRACKED ONTO ADJACENT PAVEMENT AREAS SHALL BE SWEEPED AND REMOVED DAILY.
  - REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO ASTM C-76 CLASS IV, WALL B (CIRCULAR REINFORCEMENT) AND SHALL BE JOINED USING FLEXIBLE WATERTIGHT RUBBER GASKETS CONFORMING TO ASTM-C443.
  - CONTRACTOR TO PROVIDE SHEETING AND BRACING OF TRENCH AND SHALL DEWATER AS NECESSARY TO FULLY PROTECT WORKMEN AND TO INSTALL NEW DRAIN PIPE "IN THE DRY". ALL EXCAVATION WORK SHALL COMPLY WITH CITY OF MARLBOROUGH REGULATIONS, AND IN THE ABSENCE THEREOF, WITH THE MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION OF THE ASSOCIATION GENERAL CONTRACTORS OF AMERICA, INC. UNDER NO CIRCUMSTANCES LAY PIPE IN WATER. TRENCHES SHALL BE KEPT FREE FROM WATER UNTIL PIPE JOINT MATERIAL HAS HARDENED.
  - GRADE BOTTOM OF TRENCH EVENLY TO ENSURE UNIFORM BEARING FOR FULL LENGTH OF ALL PIPE. INSTALLATION OF NEW 24" RCP SHALL BEGIN AT THE DOWNSTREAM END, TRUE TO LINE AND GRADE, WITH BELL ENDS OF PIPE FACING UPSTREAM. INSTALL GASKETS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. CLEAN PIPE OF DIRT AND DEBRIS AS WORK PROGRESSES.
  - TRENCH EXCAVATION SHALL INCLUDE THE REMOVAL OF ALL MATERIALS OF EVERY DESCRIPTION, INCLUDING SOIL, ROCK, BOULDERS, PAVEMENT, AND ALL ORGANIC MATERIAL. ANY ORGANIC MATERIAL BELOW THE PIPE INVERTS/BEDDING SHALL BE REMOVED AND REPLACED WITH GRAVEL BORROW.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL REQUIRED EROSION CONTROL MEASURES. A SURPLUS STOCK OF STRAW WATTLE, SITUATION FENCE, AND CRUSHED STONE SHALL BE STORED ON-SITE FOR IMMEDIATE ACCESS AS NEEDED.
  - EXISTING BOULDERS EXCAVATED DURING TRENCH EXCAVATION MAY BE PLACED/USED ON-SITE IF APPROVED BY OWNERS OF AFFECTED PROPERTIES. OTHERWISE THEY SHALL BE REMOVED AND PROPERLY DISPOSED OFF-SITE.
  - ALL EXCESS AND UNSUITABLE EXCAVATED MATERIALS SHALL BE REMOVED AND PROPERLY DISPOSED OFF-SITE.
  - CONTRACTOR SHALL OBTAIN TRENCH PERMIT AND ANY OTHER CONSTRUCTION PERMITS REQUIRED BY THE CITY OF MARLBOROUGH. OWNERS TO OBTAIN THE REQUIRED ORDER OF CONDITIONS FROM THE MARLBOROUGH CONSERVATION COMMISSION.
  - ALL SOIL STOCKPILE AREAS TO BE SURROUNDED WITH 12" DIAMETER STAKED STRAW WATTLES.
  - ELEVATIONS REFER TO NAVD88 DATUM.
  - LOCATIONS AND ELEVATIONS OF UNDERGROUND PIPES AND CONDUITS HAVE BEEN DETERMINED FROM THE REFERENCED PLAN SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. H.W. MOORE ASSOCIATES ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES INACCURATELY SHOWN OR OMITTED. CALL DIG-SAFE CALL CENTER, (888) 344-7233, 72 HOURS (3 WORKING DAYS) PRIOR TO EXCAVATION.
  - RESTORE DRIVEWAY DISTURBANCE TO PRE-CONSTRUCTION CONDITIONS.
  - EXISTING CATCH BASINS, DRAIN LINES, AND FLARED END SECTION USED FOR BY-PASS PUMPING SHALL BE THOROUGHLY CLEANED AT CONCLUSION OF PUMPING OPERATIONS.

**LEGEND (EXISTING)**

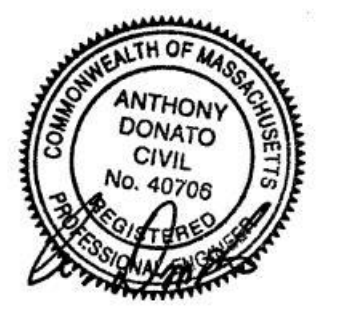
⊙	EX. OR APPROVED DRAIN MANHOLE
□	EX. OR APPROVED CATCH BASIN
▣	EXIST. DBL. CATCH BASIN
—15°—	EX. OR APPROVED DRAIN
—8"W—	EX. OR APPROVED WATER & GATE
—E—	EXIST. UNDERGROUND ELEC.
—E&COM—	EXIST. ELEC. & COM
⊙	EXIST. LIGHTPOLE
—G—	EXIST. GAS LINE
⊙	EXIST. SPOTGRADES
—468—	EXIST. 2' CONTOUR
—470—	EXIST. 10' CONTOUR
—	SIGN
—	HANDICAP PARKING
I.R. (FND)	SURVEY IRON ROD
○	EXIST. TREELINE
—BC—	EX BITUMINOUS CURB

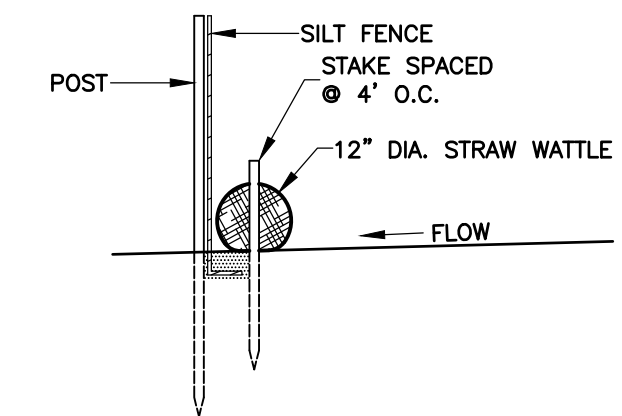
**PLAN REFERENCES:**

- EXISTING CONDITIONS: PROPERTY LINES, EASEMENTS, TOPOGRAPHY, AND UTILITIES TAKEN FROM A DIGITAL FILE PROVIDED BY BRUCE SALUK & ASSOCIATES, INC. ON MARCH 6, 2022, NAMED, "2870 EM 030722".

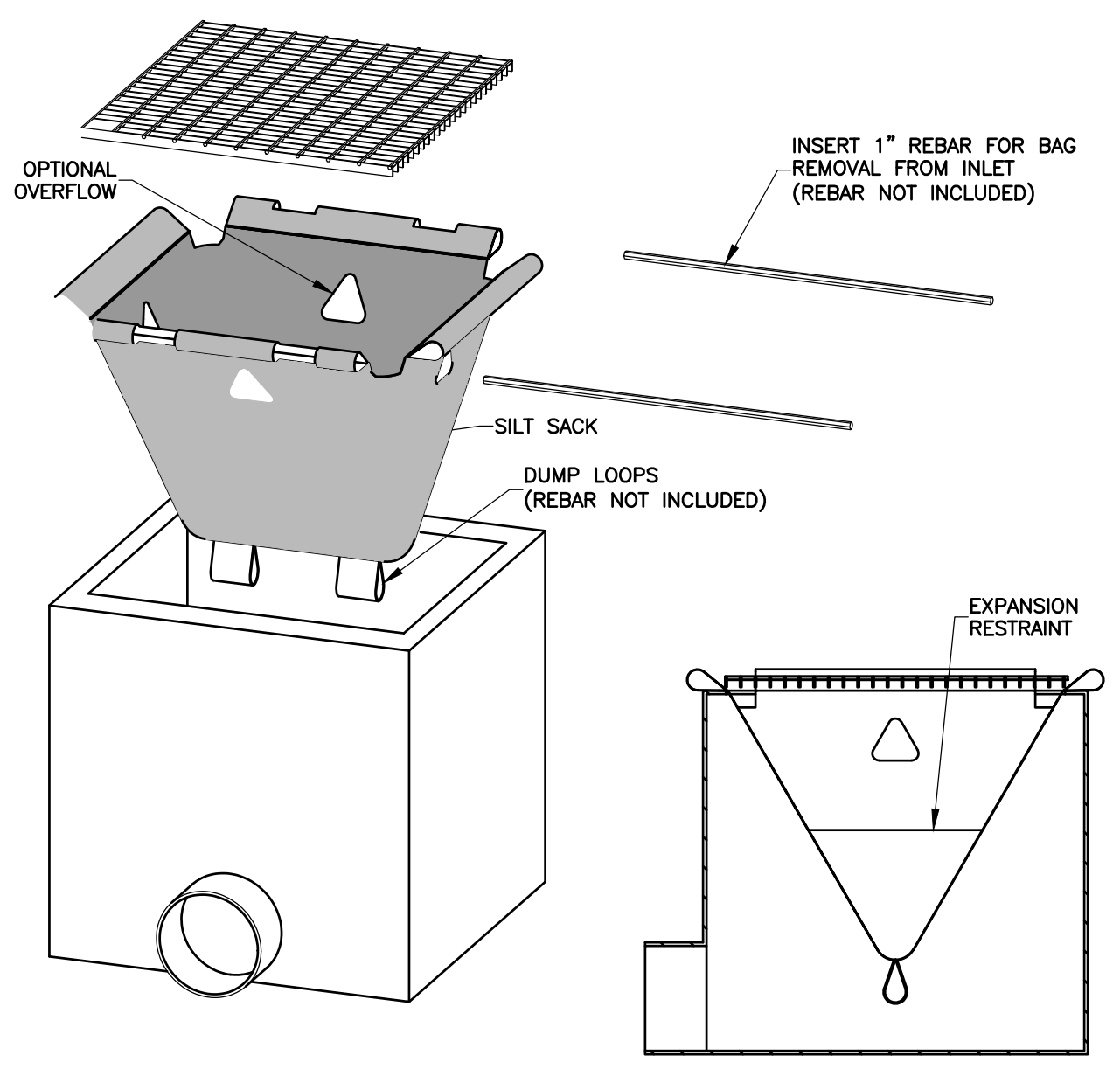
20 0 FEET 20 40  
GRAPHIC SCALE

DRAWN BY: EJR	DESIGNED BY: EJR	
CHECKED BY: FAK	APPROVED BY: AD	
<b>REVISIONS</b>		
1	03/21/22	CITY REVIEW COMMENTS
ISSUE	DATE	DESCRIPTION
		DATE: MAR. 11, 2022
		SCALE: 1" = 20'
		SHEET 1 OF 2
<b>C-1</b>		
<b>630 &amp; 686 FOREST STREET</b>		
MARLBOROUGH, MASSACHUSETTS		
<b>CULVERT REPLACEMENT PLAN</b>		
<b>H.W. Moore ASSOCIATES</b> CIVIL ENGINEERING & LAND PLANNING A DIVISION OF HANCOCK SURVEY ASSOCIATES 121 E. Berkeley Street, 4th Floor, Boston, MA 02118 tel: 617-357-8145 fax: 617-357-8496 web: hwmoores.com		

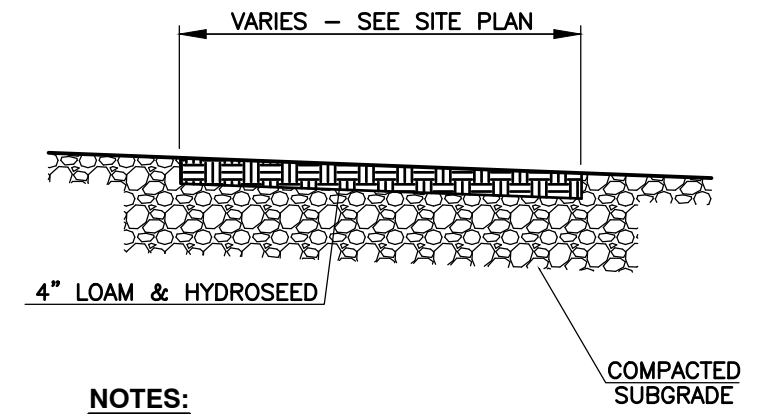




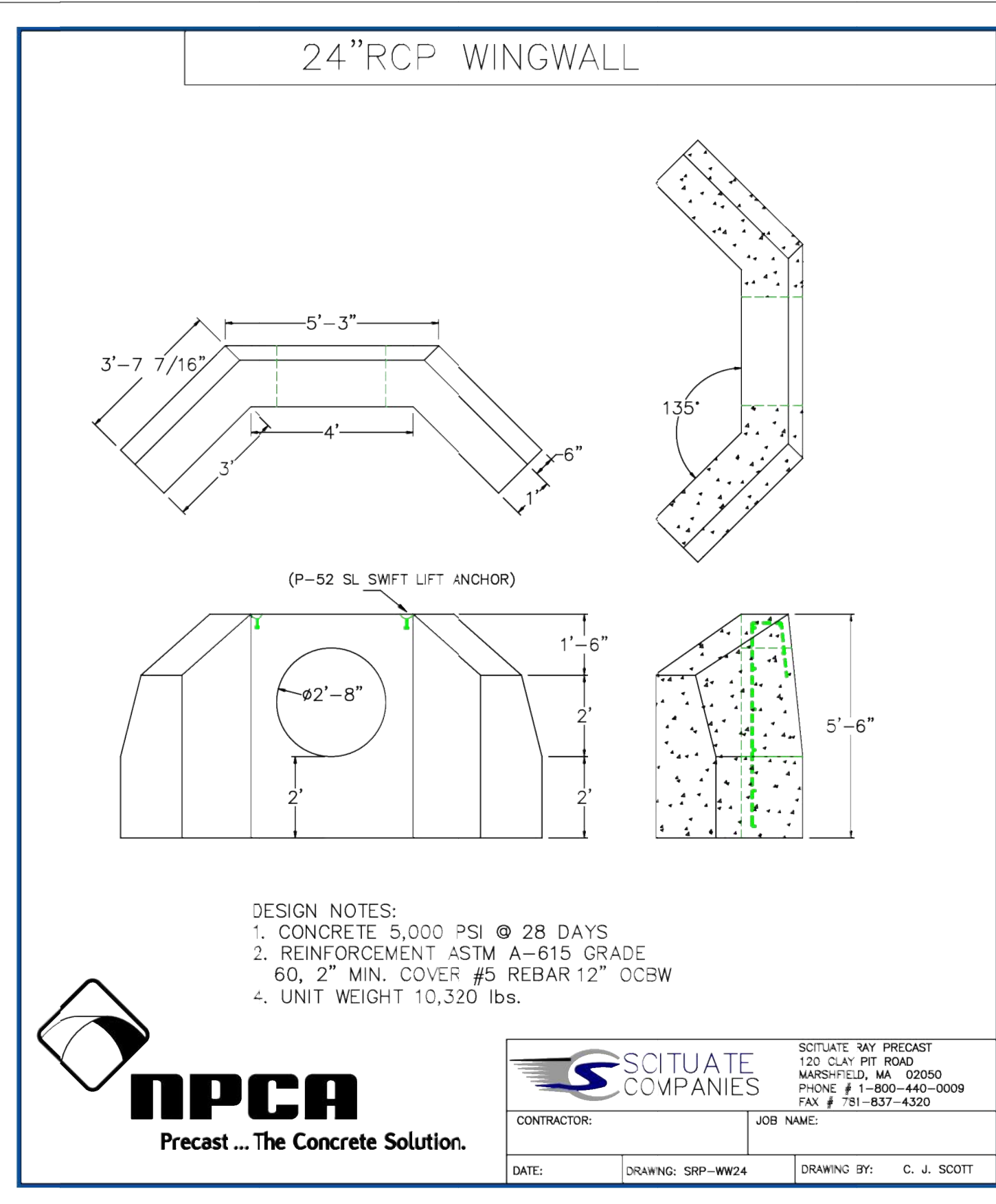
**STRAW WATTLES & SILT FENCE  
SEDIMENTATION CONTROL**  
(NOT TO SCALE)



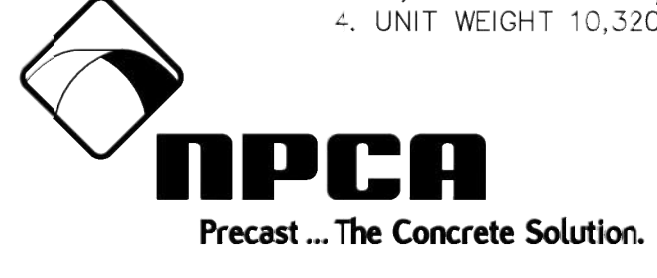
**SILK SACK DETAIL**  
(NOT TO SCALE)



**LOAM & HYDROSEED**  
(NOT TO SCALE)

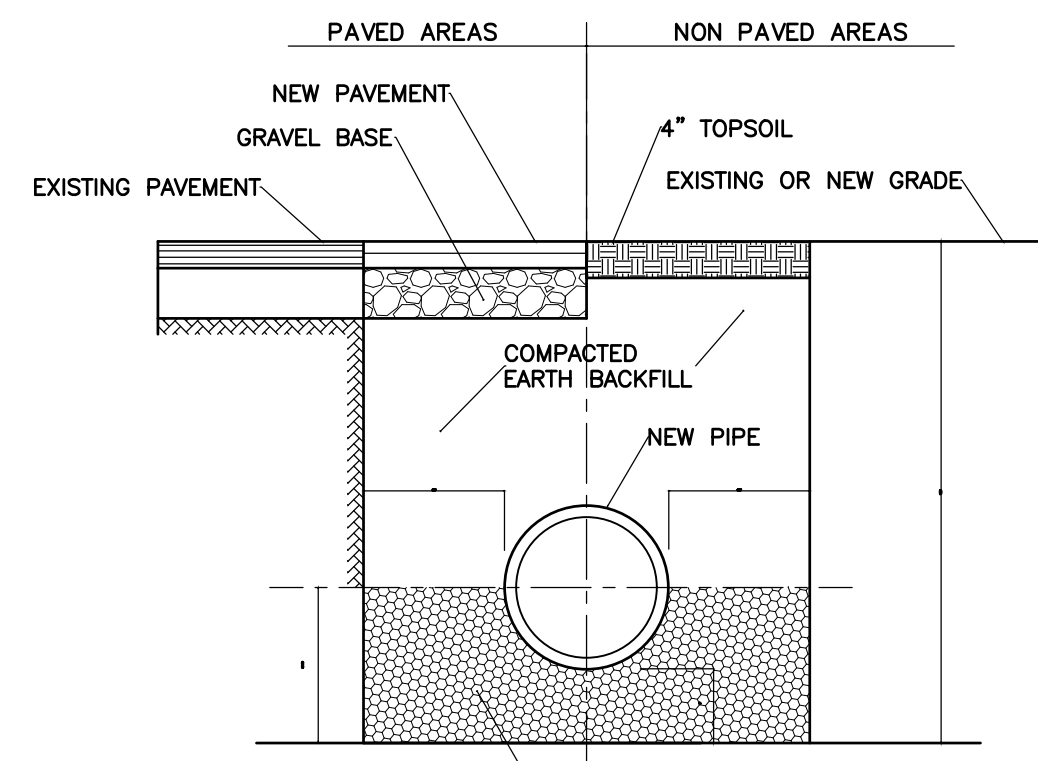


DESIGN NOTES:  
1. CONCRETE 5,000 PSI @ 28 DAYS  
2. REINFORCEMENT ASTM A-615 GRADE  
60, 2\"/>



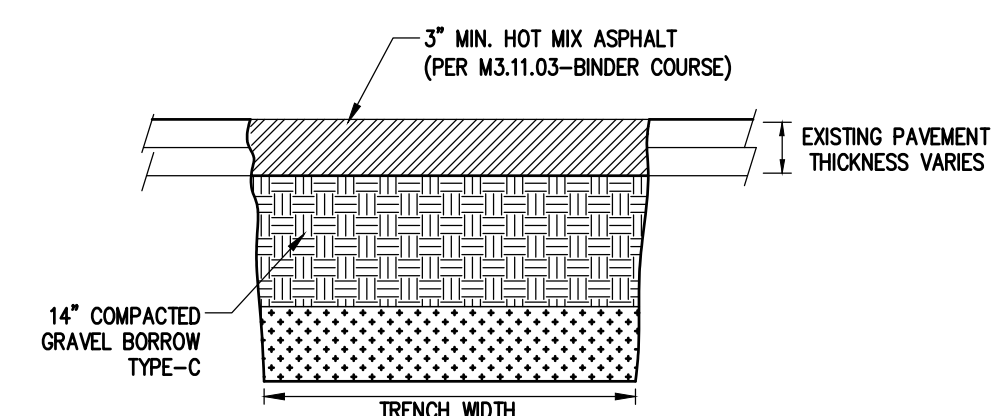
SCITUATE PRECAST 130 CLAY PIT ROAD MARSHFIELD, MA 02050 PHONE # 1-800-440-0009 FAX # 781-837-4320	
CONTRACTOR:	JOB NAME:
DATE:	DRAWING: SRP-WW24
	DRAWING BY: C. J. SCOTT

**NOTE:** WINGWALLS TO BE SET ON A COMPACTED BED OF CRUSHED STONE.



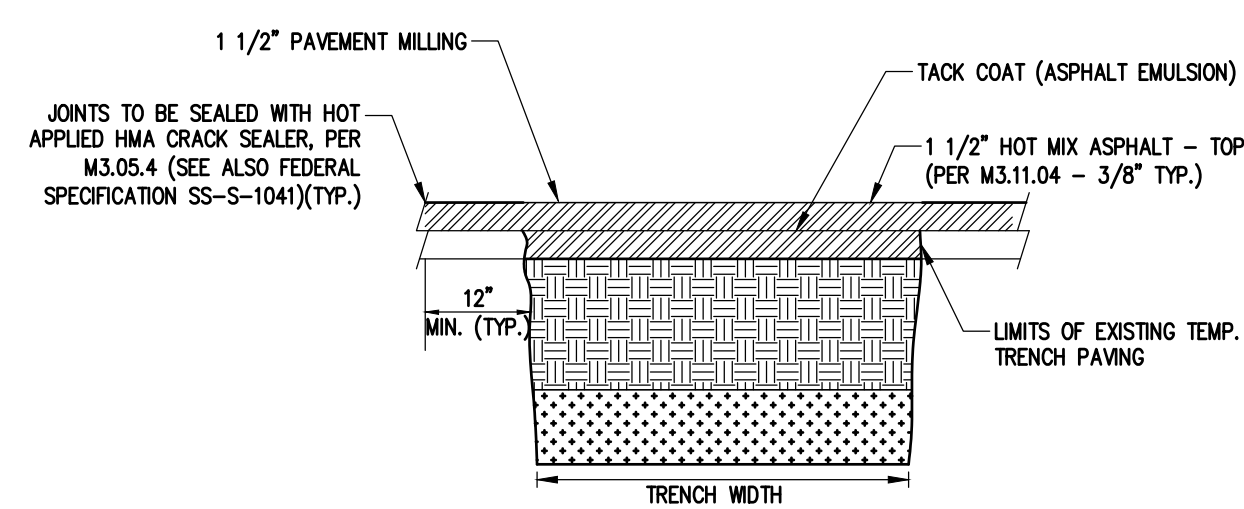
**NOTE:**  
CRUSHED STONE WILL ONLY BE REQUIRED IF UNSUITABLE MATERIALS ARE ENCOUNTERED OR IF PIPE IS BEING LAID WITHIN GROUND WATER TABLE. OTHERWISE, PIPE MAY BE PLACED ON BOTTOM OF TRENCH AND EARTH BACKFILLED.

**EXCAVATION & BACKFILL DETAIL  
FOR DRAIN AND WATER PIPES**  
(NOT TO SCALE)

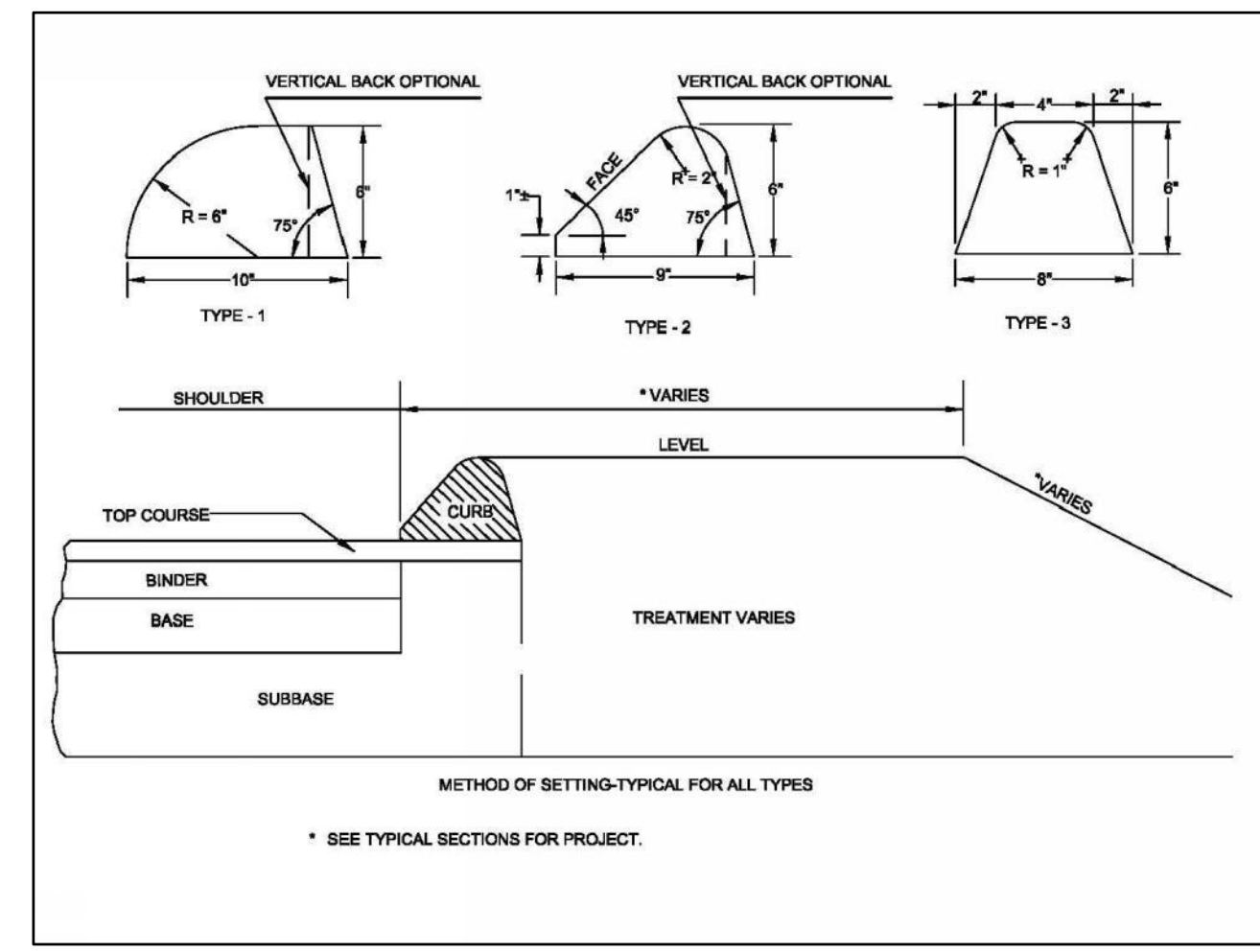


**NOTE:**  
1. COMPACTION EQUIPMENT AND LIFT THICKNESS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS TO OBTAIN THE COMPACTION STANDARDS DESCRIBED IN THE CONSTRUCTION NOTES, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. IN PROXIMITY TO STRUCTURES, A JUMPING JACK COMPACTOR SHALL BE REQUIRED.

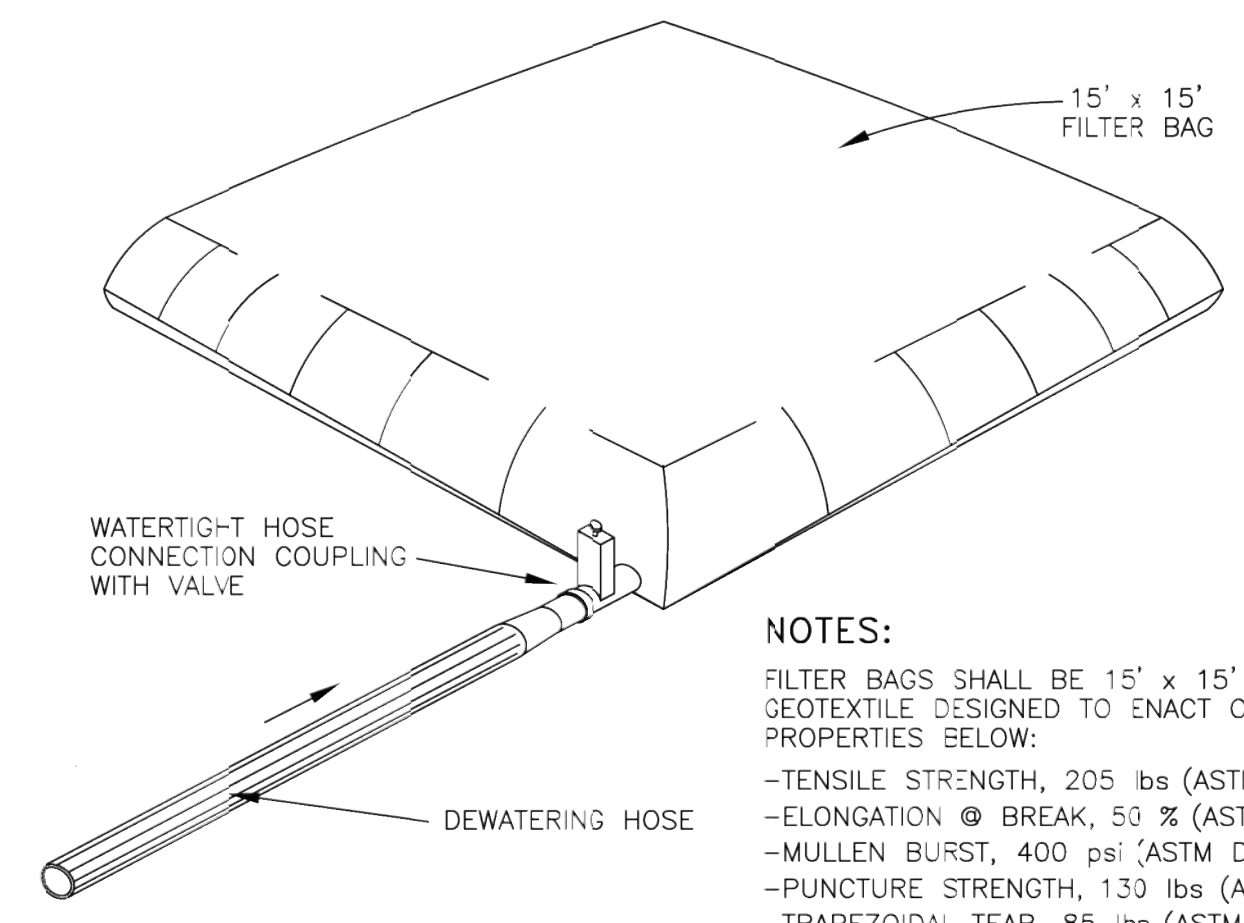
**TEMPORARY TRENCH PAVING  
TYPICAL SECTION**  
N.T.S.



**FINAL TRENCH PAVING  
TYPICAL SECTION**  
N.T.S.



**massDOT HOT MIX ASPHALT CURBS  
BIT.CONC. CURB (BCC)**  
(NOT TO SCALE)



**NOTES:**  
FILTER BAGS SHALL BE 15' x 15' POLYPROPYLENE GEOTEXTILE, DESIGNED TO ENACT OR EXCEED THE PROPERTIES BELOW:  
-TENSILE STRENGTH, 205 lbs (ASTM D-4632)  
-ELONGATION @ BREAK, 50 % (ASTM D-4632)  
-MULLEN BURST, 400 psi (ASTM D-3786)  
-PUNCTURE STRENGTH, 130 lbs (ASTM D-4833)  
-TRAPEZOIDAL TEAR, 85 lbs (ASTM D-4533)  
-APPARENT OPENING SIZE, 80 US Sieve (ASTM D-4751)  
-PERMITTIBILITY, 1.40 Sec<sup>-1</sup> (ASTM D-4491)  
-UV RESISTANCE, % RETAINED, 70 % (ASTM D-4355)  
-FLOW RATE, 90 gal/min/sf (ASTM D-4491)  
BAGS SHALL BE US FILTER BAG BY US FABRICS, CINCINNATI, OHIO, OR APPROVED EQUAL.

**DEWATERING FILTER BAG DETAIL**  
N. T. S. FilterBag.dwg

DRAWN BY: EJR	DESIGNED BY: EJR
CHECKED BY: FAK	APPROVED BY: AD

REVISIONS	

ISSUE	DATE	DESCRIPTION
1	03/21/22	CITY REVIEW COMMENTS

**C-2**  
DATE: MAR. 11, 2022  
SCALE: AS NOTED  
SHEET 2 OF 2

686 FOREST STREET  
MARLBOROUGH, MASSACHUSETTS

**CULVERT  
REPLACEMENT PLAN**

**H.W. Moore**  
A S S O C I A T E S  
CIVIL ENGINEERING | LAND PLANNING  
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