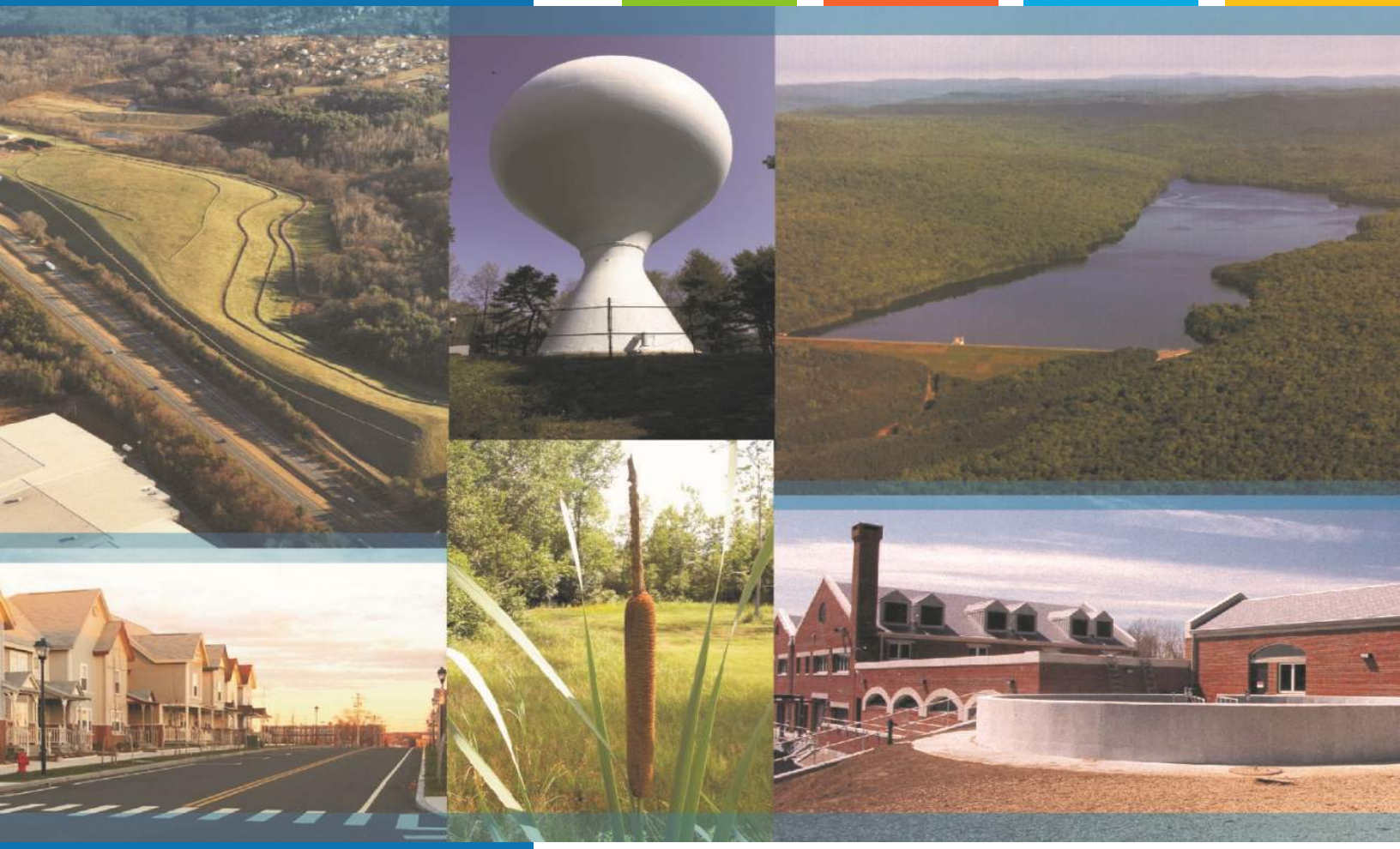


Electrical Conduit Installation Project
Menemsha Crossroad
Chilmark, Massachusetts

REQUEST FOR DETERMINATION OF APPLICABILITY

Eversource Energy
247 Station Drive, SE270
Westwood, Massachusetts

September 2023

Tighe&Bond

100% Recyclable

E-5034-225
September 6, 2023

Chilmark Conservation Commission
Chilmark Town Hall
401 Middle Road
P.O. Box 119
Chilmark, MA 02535

Re: **Request for Determination of Applicability**
Electrical Conduit Installation Project
Menemsha Crossroad, Chilmark, Massachusetts

Dear Chair Shweder and Members of the Commission:

On behalf of NSTAR Electric Company dba Eversource Energy ("Eversource"), Tighe & Bond respectfully submits this Request for Determination of Applicability (RDA) for a proposed electrical conduit installation project along Menemsha Crossroad in Chilmark, Massachusetts (Attachment B, Figure 1) to strengthen the existing electrical grid and improve the reliability of the electric service to Chilmark. Eversource proposes to install six new manholes and underground electrical conduit connecting the existing Eversource facility at 45 Menemsha Crossroad to the intersection of Menemsha Crossroad and Middle Road.

This RDA is being filed because a portion of the proposed work will occur within the 100-foot Buffer Zone (BZ) to Bordering Vegetated Wetlands and intermittent streams. These areas are regulated under the Massachusetts Wetlands Protection Act (MAWPA, M.G.L. c. 131 §40), the Town of Chilmark Wetlands Protection Bylaw, and implementing regulations. All of the proposed work will be undertaken within previously disturbed and paved areas without any anticipated impacts to resource areas.

Per 310 CMR 10.02(2)(b)2.i., underground utilities installed within the 100-foot BZ within existing paved or unpaved roadways are exempt from regulation under M.G.L. c. 131 §40. Tighe & Bond respectfully requests that the Conservation Commission issue a Negative Determination confirming that the proposed work is not a regulated activity under the Wetlands Protection Bylaw.

This RDA application includes the following items:

- Attachment A – WPA Form 1, Filing Fee Check
- Attachment B – Figures
- Attachment C – Best Management Practices

The following text discusses the MAWPA resource areas, proposed activities, and proposed protective measures for the electric line and conduit installation.

Wetland Resource Areas

In preliminary unofficial coordination, the Conservation Commission staff confirmed via e-mail that Massachusetts Department of Environmental Protection (MassDEP) wetlands data are sufficient for the purposes of this RDA and a formal field delineation of wetlands is not required. Please refer to Figure 4 in Attachment B for the locations of the jurisdictional resource areas.

Inland Bank

Two intermittent streams cross beneath Menemsha Crossroad via existing culverts within the project corridor. These streams cross perpendicular to Menemsha Crossroad at the properties 1 Sassafrass Lane in the northern third of the project corridor and 31 Menemsha Crossroad, near to the center of the project corridor.

Bordering Vegetated Wetlands

Areas of Bordering Vegetated Wetlands (BVW) are located to the west of Menemsha Crossroad in two locations along the project corridor. These areas are identified as wooded deciduous swamp and are mapped approximately 10 feet and 60 feet from the edge of pavement for Menemsha Crossroad at the nearest locations.

Rare Species

No portion of the proposed project falls within any *Priority Habitats of Rare Species* or *Estimated Habitats of Rare Wildlife* based on a review of the Massachusetts Natural Heritage and Endangered Species Program (NHESP) Atlas (15th edition; August 1, 2021) and NHESP data available on MassGIS online, as shown on Figure 2 in Attachment B.

Proposed Activities

The proposed project involves the installation of a new underground electrical conduit connecting the existing Eversource facility at 45 Menemsha Crossroad to the intersection of Menemsha Crossroad and Middle Road, for a total of approximately 2,680 linear feet. The conduits will consist of a series of concrete encased ducts with grounding and will be installed below ground along the conduit corridor within existing paved or unpaved roadway. In addition, six new manholes will be installed along the conduit path to provide access to the subsurface electric equipment.

The installation of the new conduit will be completed utilizing two- to five-inch diameter pipes that will be encased in concrete below ground. Trenching will be required to install the conduits, and the trenches are expected to measure approximately up to three feet wide and will be excavated to a depth of approximately three feet. Once the conduits are installed, the trenches will be backfilled and restored in kind.

Work Within Resource Areas

Impacts to the intermittent streams will be avoided by installing the new conduit in ground above the existing stream culverts. If needed during construction, the trench will be plated at these crossing locations.

Portions of the project installation will occur within the 100-foot BZ to BVW and Inland Bank resulting in approximately 2,105 square feet (sf) of temporary impacts within the 100-foot BZ. Areas within the 100-foot BZ where the work is proposed consist entirely of paved roadway and adjacent previously disturbed areas. The proposed work will not change the

general characteristics of the area. Figure 4 in Attachment B illustrates the proposed activities relative to jurisdictional resource areas.

Protective Measures

Work will be conducted in accordance with Eversource's Best Management Practices document. Please refer to Attachment C for further details. During construction activities, erosion control measures (*e.g.*, straw bales, silt fence, silt sack, straw wattles) will be installed between proposed areas of disturbance and resource areas as deemed necessary. Following the completion of construction activities, the disturbed areas will be restored in kind.

Summary

We look forward to having the opportunity to discuss this project with the Chilmark Conservation Commission at the next scheduled public meeting on September 21, 2023. We anticipate these materials are sufficient for the Commission to issue a Negative Determination confirming that a Notice of Intent (NOI) will not be required for the proposed work to proceed. Should you have any questions regarding this application or require any additional information, please do not hesitate to contact me at (508) 304-6354 or via email at AJHoule@tighebond.com.

Sincerely,

TIGHE & BOND, INC.

Amanda J. Houle, PWS, CERP
Senior Environmental Scientist

Enclosures

Copy: James Clancy, Eversource Energy

J:\E\E5034 Eversource L&P 2019\225 - Menemsha Road Conduit, Chilmark\RDA\Menemsha_2-Chilmark Cover Letter.docx

ATTACHMENT A

WPA FORM 1

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

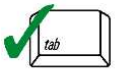
Chilmark
City/Town

WPA Form 1- Request for Determination of Applicability

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

A. General Information

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



1. Applicant:

Eversource Energy (c/o James Clancy)	james.clancy@eversource.com	
Name	E-Mail Address	
247 Station Drive, SE 270		
Mailing Address		
Westwood	MA	02090
City/Town	State	Zip Code
781-441-8159		
Phone Number	Fax Number (if applicable)	

2. Representative (if any):

Tighe & Bond, Inc.		
Firm		
Amanda Houle, PWS, CERP	AJHoule@tighebond.com	
Contact Name	E-Mail Address	
4 Barlows Landing Road, Unit #15		
Mailing Address		
Pocasset	MA	02559
City/Town	State	Zip Code
508-304-6354	508-564-4298	
Phone Number	Fax Number (if applicable)	

B. Determinations

1. I request the Chilmark (Conservation Commission) make the following determination(s). Check any that apply:

☐ a. whether the **area** depicted on plan(s) and/or map(s) referenced below is an area subject to jurisdiction of the Wetlands Protection Act.

☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced below are accurately delineated.

☐ c. whether the **work** depicted on plan(s) referenced below is subject to the Wetlands Protection Act.

☑ d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any **municipal wetlands ordinance** or **bylaw** of:

Chilmark
Name of Municipality

☐ e. whether the following **scope of alternatives** is adequate for work in the Riverfront Area as depicted on referenced plan(s).

C. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):

Menemsha Crossroad	Chilmark
Street Address	City/Town
N/A	N/A
Assessors Map/Plat Number	Parcel/Lot Number

b. Area Description (use additional paper, if necessary):

Menemsha Crossroad is a two-lane roadway that serves primarily residential areas. The project extends from 45 Menemsha Crossroad to the intersection of Menemsha Crossroad and Middle Road.

c. Plan and/or Map Reference(s):

Figure 4. Site Plan on Orthophoto	8/29/2023
Title	Date
Title	Date
Title	Date

2. a. Work Description (use additional paper and/or provide plan(s) of work, if necessary):

The proposed work consists of the installation of new electrical conduits and manholes connecting the existing Eversource facility located at 45 Menemsha Crossroad to the intersection of Menemsha Crossroad and Middle Road. Please refer to the enclosed cover letter for additional project details.

C. Project Description (cont.)

b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

The installation of underground utilities in roadways 310 CMR 10.02(2)(b)(2)(i)) - installation of underground utilities in roadway.

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- ☐ Single family house on a lot recorded on or before 8/1/96
- ☐ Single family house on a lot recorded after 8/1/96
- ☐ Expansion of an existing structure on a lot recorded after 8/1/96
- ☐ Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
- ☐ New agriculture or aquaculture project
- ☐ Public project where funds were appropriated prior to 8/7/96
- ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- ☐ Residential subdivision; institutional, industrial, or commercial project
- ☐ Municipal project
- ☐ District, county, state, or federal government project
- ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Name and address of the property owner:

Town of Chilmark
Name
401 Middle Road, PO Box 119
Mailing Address
Chilmark
City/Town

MA	02535
State	Zip Code

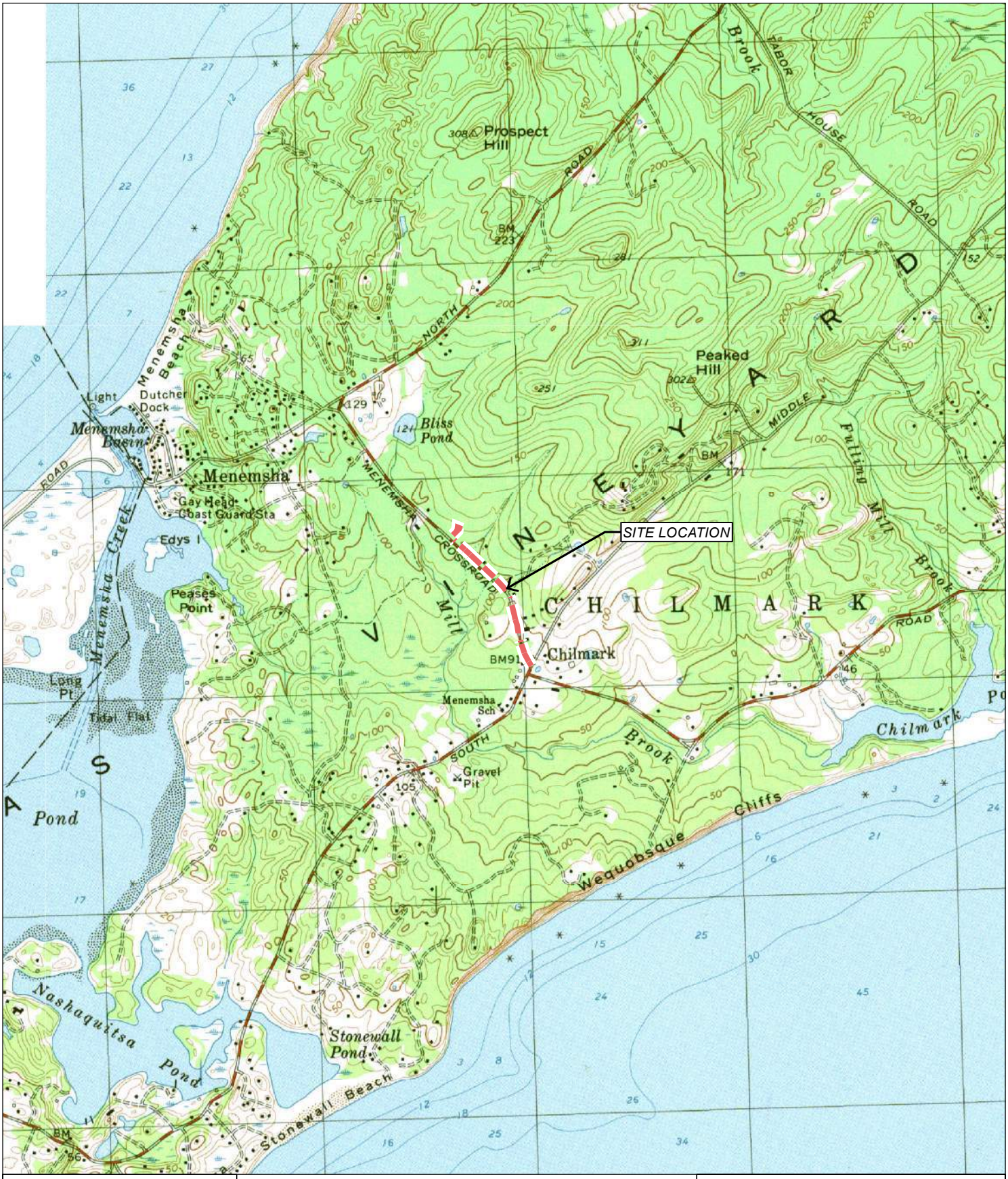
Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

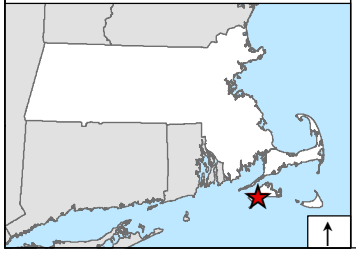
Signature of Applicant	9/6/2023 Date
Signature of Representative (if any)	9/6/2023 Date

ATTACHMENT B

FIGURES



INDEX MAP



Legend

Proposed Conduit

1:24,000
1 inch = 2,000 feet

0 1,000 2,000 Feet

N

EVERSOURCE

Figure 1 - Site Location
Conduit Installation
Menemsha Crossroad
Chilmark, Massachusetts

August 2023

Tighe&Bond

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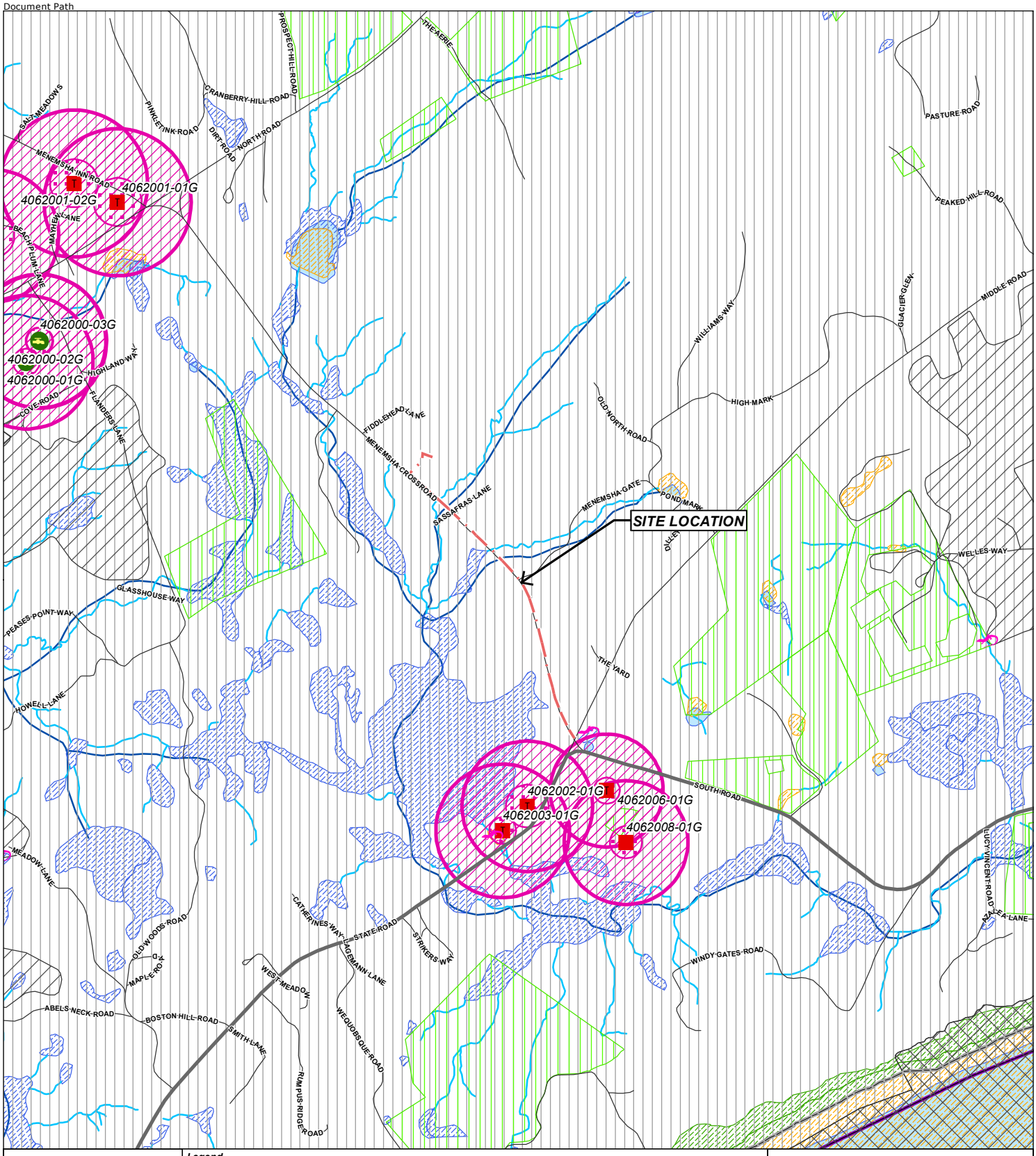
E-5034

Document Path



INDEX MAP

Legend

- NHESP Certified Vernal Pools
- NHESP Potential Vernal Pools
- Non-Landfill Solid Waste Sites
- Proposed Well
- Emergency Surface Water
- Community Public Water Supply - Surface Water
- Community Public Water Supply - Groundwater
- Non-Community Non-Transient Public Water Supply
- Non-Community Transient Public Water Supply
- Limited Access Highway
- Multi-Lane Highway, NOT Limited Access
- Other Numbered Route
- Major Road - Arterials and Collectors
- Minor Street or Road
- Aquaducts
- Stream/Intermittent Stream
- Hydrologic Connections
- Powerline
- Pipeline
- Track or Trail
- Trains
- Public Surface Water Supply Protection Area (Zone A)
- DEP Approved Wellhead Protection Area (Zone
- DEP Approved Wellhead Protection Area (Zone II)
- Solid Waste Landfill
- DEP Interim Wellhead Protection Area (IWPA)
- Protected and Recreational Open Space
- Area of Critical Environmental Concern (ACEC)
- NHESP Priority Habitats for Rare Species
- NHESP Estimated Habitats for Rare Wildlife
- EPA Designated Sole Source Aquifer
- Major Drainage Basin
- Sub Drainage Basin
- MassDEP Open Water
- MassDEP Inland Wetlands
- MassDEP Coastal Wetlands
- MassDEP Not Interpreted Wetlands
- Public Surface Water Supply (PSWS)
- Water Bodies
- Non-Potential Drinking Water Source Area - High Yield
- Non-Potential Drinking Water Source Area - Medium Yield
- Potentially Productive Medium Yield Aquifer
- Potentially Productive High Yield Aquifer
- Town Boundary
- County Boundary
- Proposed Conduit

1:12,000
1 inch = 1,000 feet
0 500 1,000 Feet
N

EVERSOURCE

Figure 2 - Priority Resources
Conduit Installation
Menemsha Crossroad
Chilmark, Massachusetts

August 2023

Tighe&Bond

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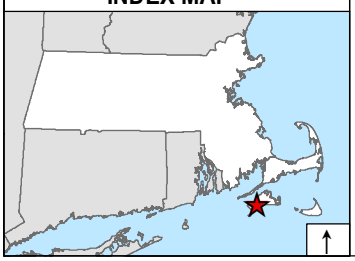
E-5034

INDEX MAP



Legend

Proposed Conduit

Based on Nearmap Color Orthophotography (2023)

N

1:3,600

1 inch = 300 feet

0 150 300 Feet

EVERSOURCE

Figure 3 - Orthophotograph
Conduit Installation
Menemsha Crossroad
Chilmark, Massachusetts

August 2023

Tighe&Bond

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E-5034

LENGTH OF PROPOSED CONDUIT WITHIN 100-FOOT BUFFER: 701.8 FEET

AREA OF 3-FOOT WIDE TRENCH WITHIN 100-FOOT BUFFER: 2105.4 SQ. FT.

TRENCH AND PLATE OVER EXISTING CULVERTS

TRENCH AND PLATE OVER EXISTING CULVERTS

MENEMSHA GATE

THE YARD

MIDDLE ROAD

SASSAFRAS LANE

MENEMSHA CROSSROAD

INDEX MAP

Legend

- Proposed Conduit
- Sediment Control Barrier
- 100' Buffer to BVW / 100' Upland Review Area
- 10' Contour
- Watercourse (Not Delineated)
- Approximate Wetland (Not Delineated)

1 inch = 150 feet

0 25 50 100 150 Feet

Map Notes:
Data valid as of August 2023.
Based on Nearmap Color Orthophotography (2023)

NO.	DATE	REVISIONS

EVERSOURCE

Figure 4 - Site Plan
Conduit Installation
Menemsha Crossroad
Chilmark, Massachusetts

Date: August 30, 2023

Tighe&Bond

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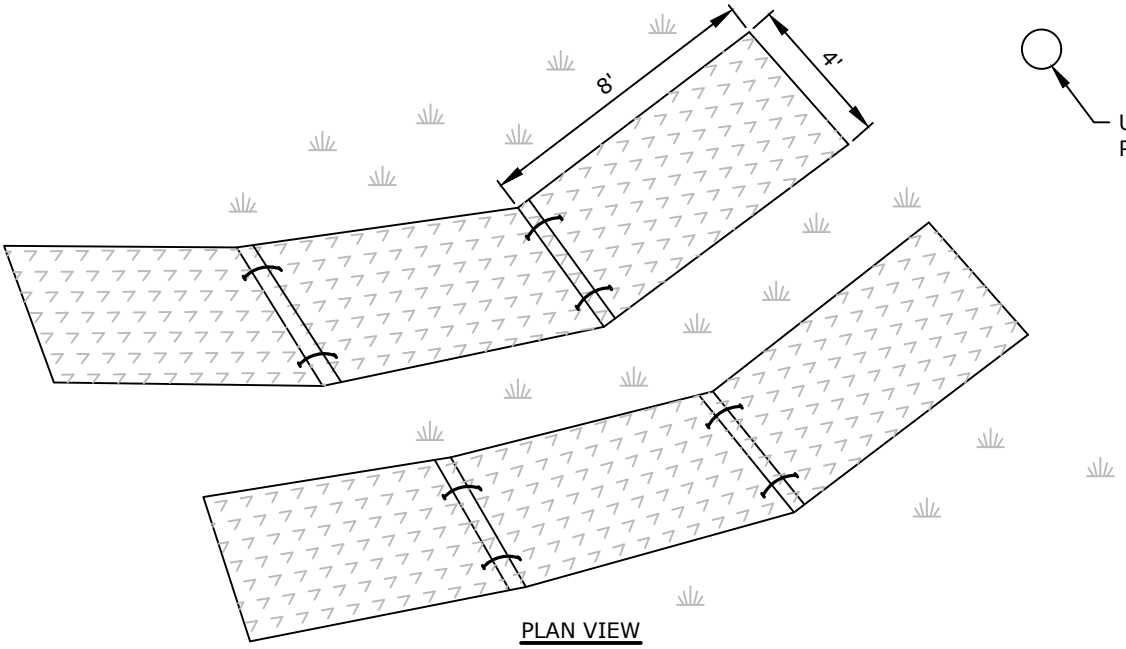
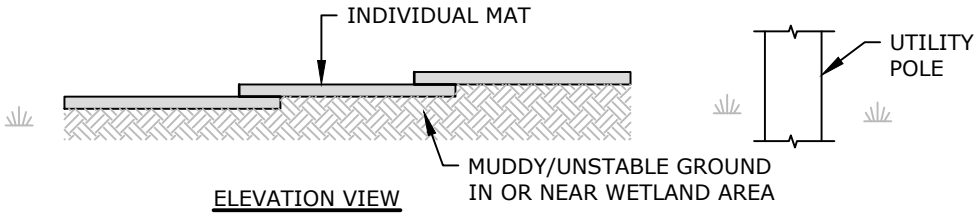
ATTACHMENT C

BEST MANAGEMENT PRACTICES



PLAN VIEW

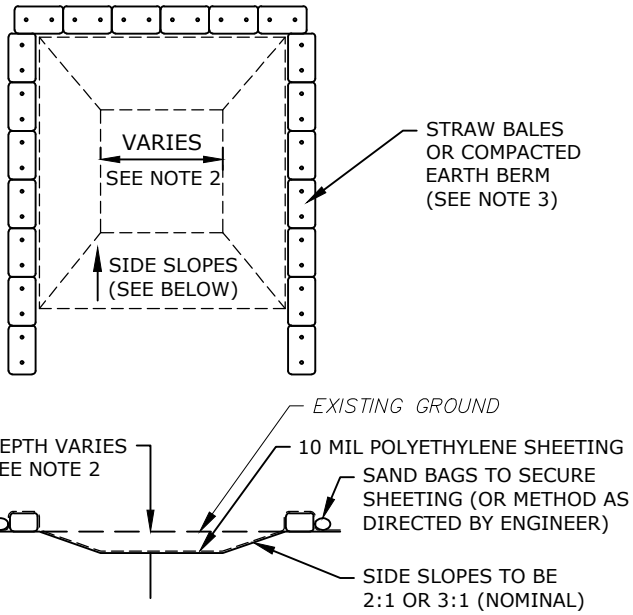


ELEVATION VIEW

ALTURNAMAT®

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A04

EVERSOURCE



NOTES:

1. CONCRETE WASHOUT AREA(S) SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE. THE CONCRETE WASHOUT AREA SHALL BE ENTIRELY SELF-CONTAINED.

2. THE CONTRACTOR SHALL SUBMIT THE DESIGN, LOCATION AND SIZING OF THE CONCRETE WASHOUT AREA(S) WITH THE PROJECTS'S EROSION AND SEDIMENTATION CONTROL PLAN.

3. LOCATION: WASHOUT AREA(S) ARE TO BE LOCATED AT LEAST 50 FEET FROM ANY STREAM, WETLAND, STORM DRAINS, OR OTHER SENSITIVE RESOURCE. THE FLOOD CONTINGENCY PLAN MUST ADDRESS THE CONCRETE WASHOUT IF THE WASHOUT IS TO BE LOCATED WITHIN THE FLOODPLAIN.
   SIZE: THE WASHOUT MUST HAVE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS INCLUDING, BUT NOT LIMITED TO, OPERATIONS ASSOCIATED WITH GROUT AND MORTAR.

4. SURFACE DISCHARGE IS UNACCEPTABLE. THEREFORE, STRAW BALES OR OTHER CONTROL MEASURES, SHOULD BE USED AROUND THE PERIMETER OF THE CONCRETE WASHOUT AREA FOR CONTAINMENT.

5. SIGNS SHOULD BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE AREA(S) AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS. WASHOUT AREA(S) SHOULD BE FLAGGED WITH SAFETY FENCING OR OTHER APPROVED METHOD.

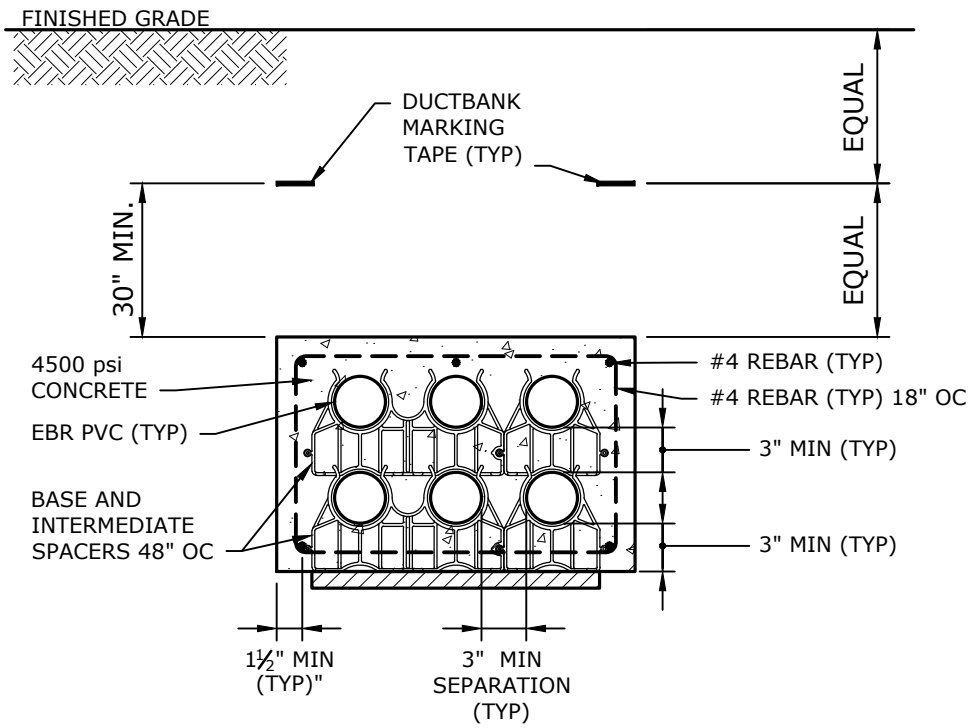
6. WASHOUT AREA(S) ARE TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS OR OVERFLOWS. (AS REQUIRED BY THE CONSTRUCTION SITE ENVIRONMENTAL INSPECTION REPORT) WASHOUT AREA(S) SHOULD BE CHECKED AFTER HEAVY RAINS.

7. HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S HEIGHT. THE WASTE CAN BE STORED AT AN UPLAND LOCATION. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.

CONCRETE WASH OUT

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A15

EVERSOURCE



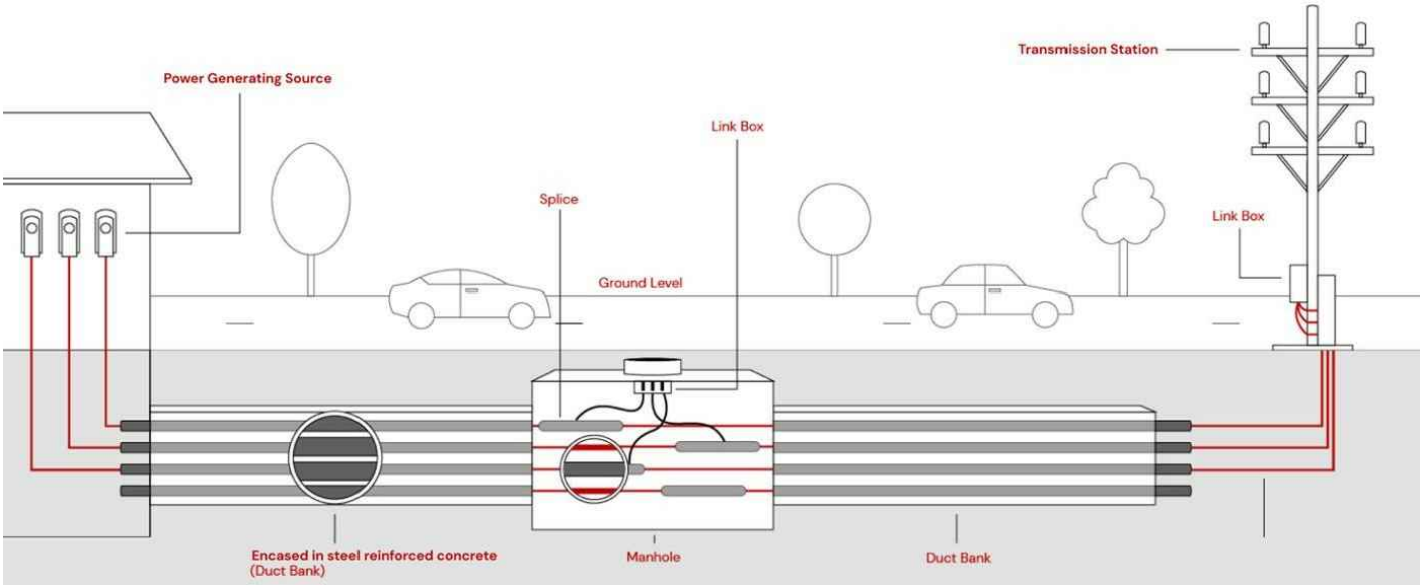
NOTES:

1. GEOTECH TEST, IN ACCORD WITH ASTM D608, THE BOTTOM OF EXCAVATION TO ACHIEVE 85% OF MAXIMUM DRY DENSITY, PRIOR TO CONCRETE PLACEMENT.

ROAD TRENCH
(DUCT BANK)

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A16

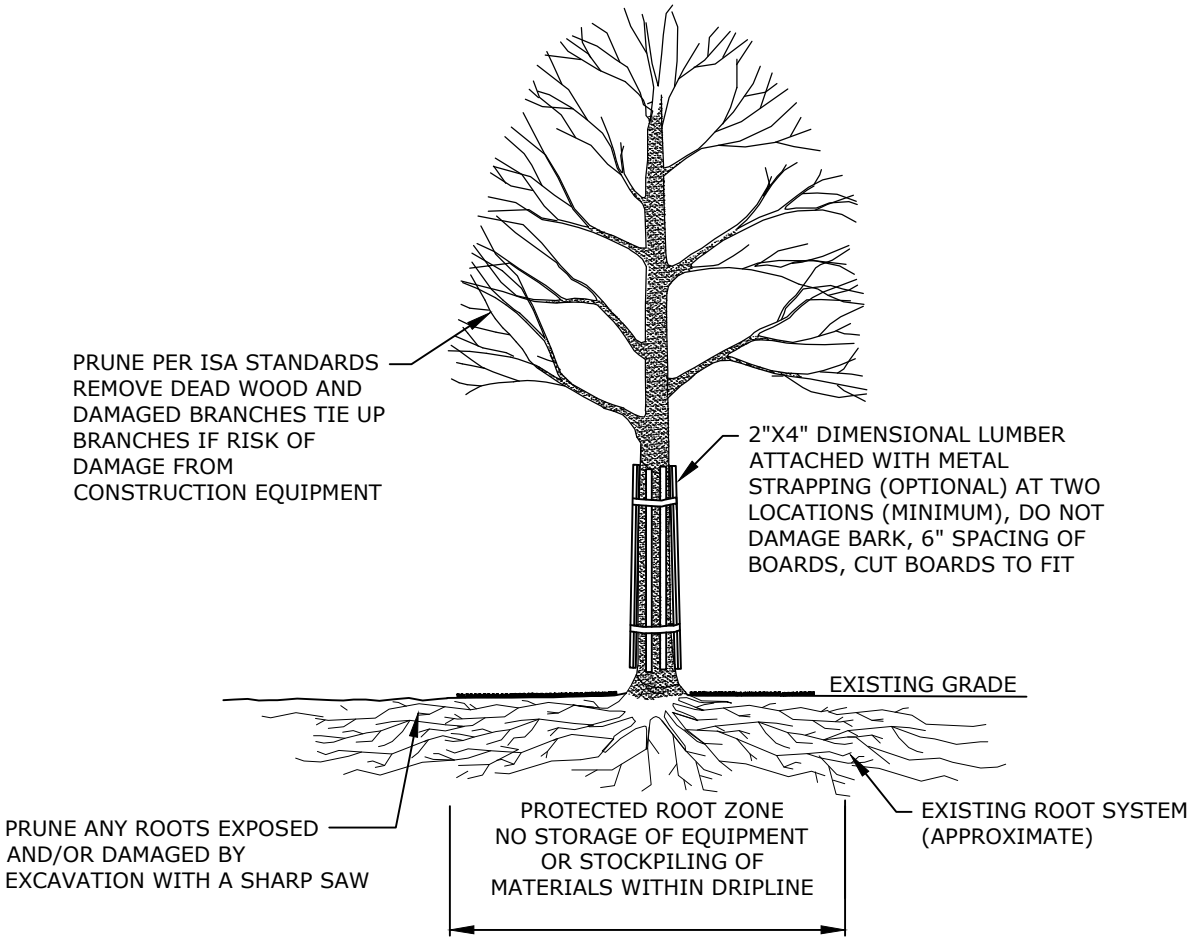
EVERSOURCE



ROAD TRENCH
(6-WAY DUCT BANK)

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A17

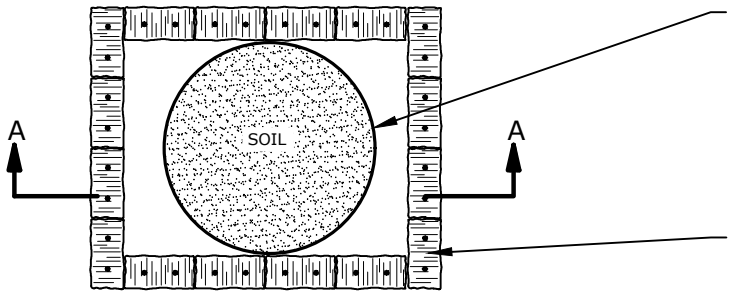
EVERSOURCE



TREE PROTECTION

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A18

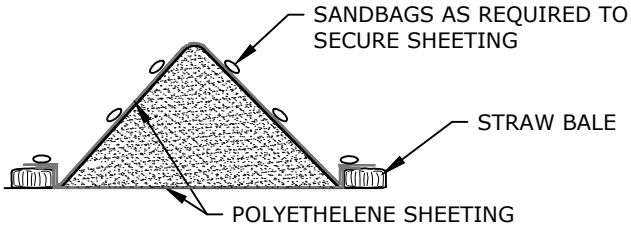
EVERSOURCE



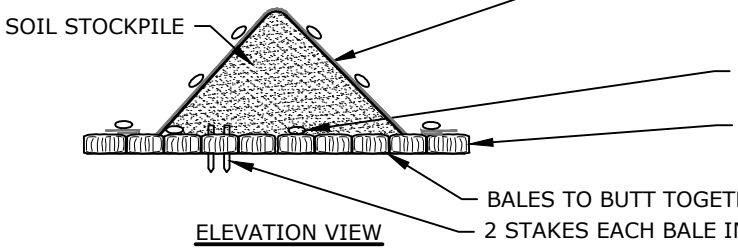
CONTAMINATED SOILS MUST BE ON AND COVERED WITH POLYETHYLENE SHEETING TO LIMIT EROSION. SHEETING NOT REQUIRED FOR NON-CONTAMINATED SOILS IF SEDIMENTATION AND EROSION CONTROLS COMPLETELY ENCLOSE STOCKPILE.

STRAW BALES AND/OR SILT FENCE

PLAN VIEW



SECTION A-A



ELEVATION VIEW

NOTE:

1. SANDBAGS (OR SIMILAR) MAY BE USED TO SECURE POLYETHYLENE SHEETING ON TOP OF THE STOCKPILE.
2. STRAW PRODUCTS ONLY; THE USE OF HAY OR HAY PRODUCTS IS STRICTLY PROHIBITED.

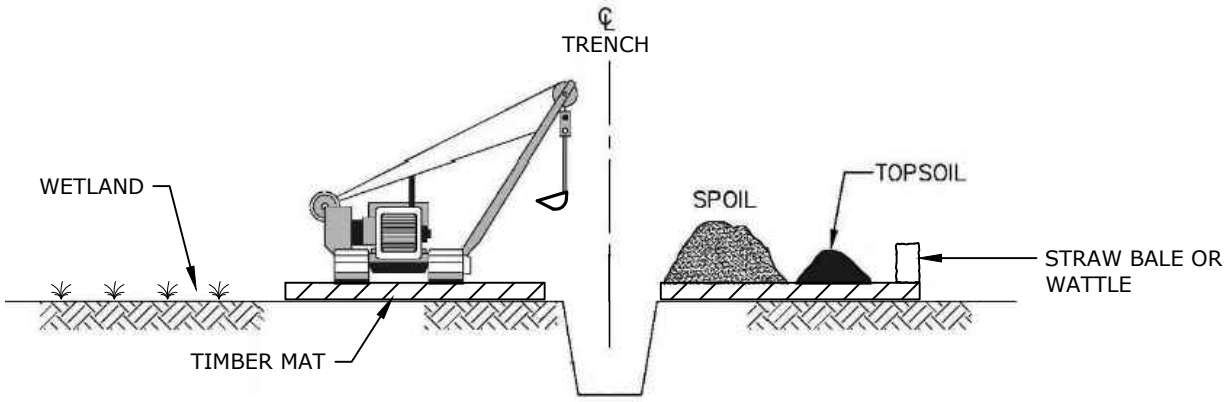
SOIL STOCKPILE MANAGEMENT

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A19

EVERSOURCE

NOTES:

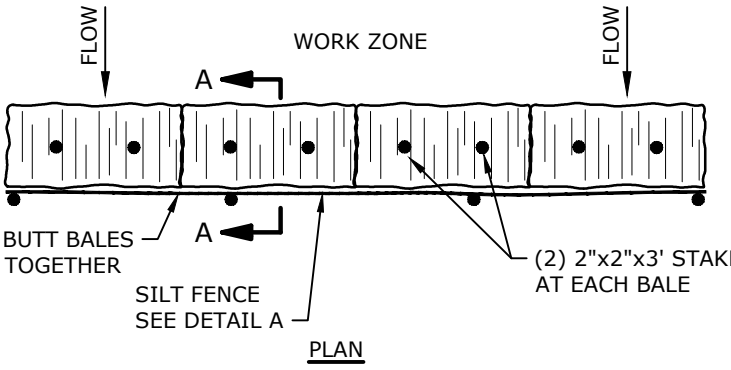
1. TOPSOIL SEGREGATION TO BE USED IN WETLANDS AND AGRICULTURAL LAND.
2. IF WORKING WITHIN WETLANDS, MATTING BENEATH STOCKPILES MUST BE LINED OR UNDERLAIN BY GEOTEXTILE FABRIC.
3. STOCKPILES SHOULD BE ENCLOSED BY STRAW BALES OR WATTLES.



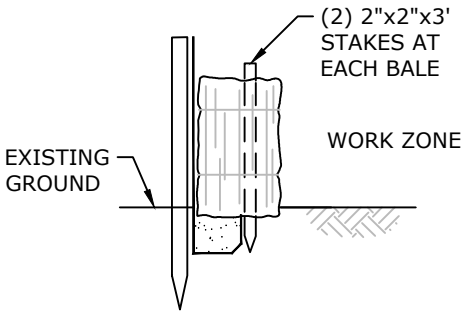
TOPSOIL SEGREGATION

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A20

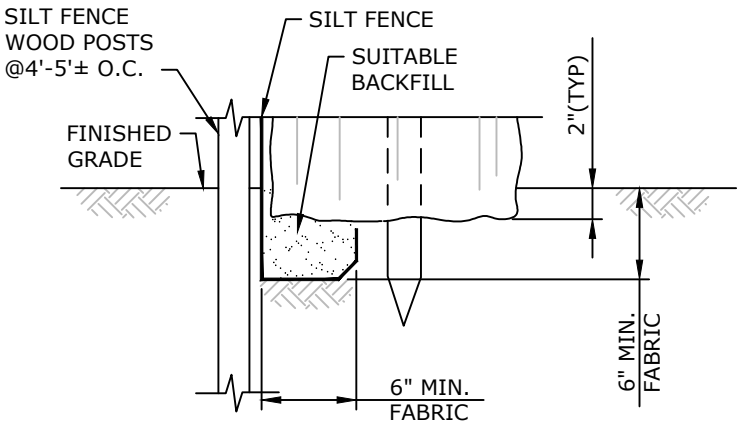
EVERSOURCE



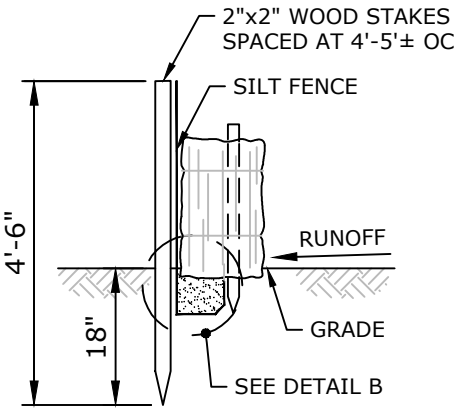
PLAN



SECTION A-A



DETAIL B



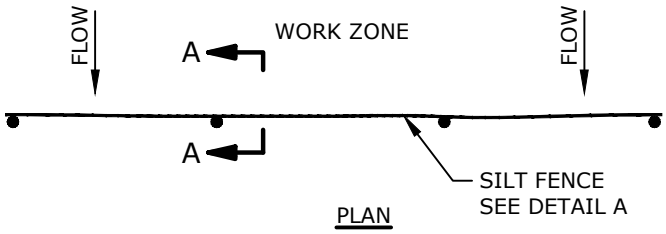
DETAIL A

NOTE:
USE OF HAY AND/OR PRODUCTS CONTAINING WEED SEED IS PROHIBITED.

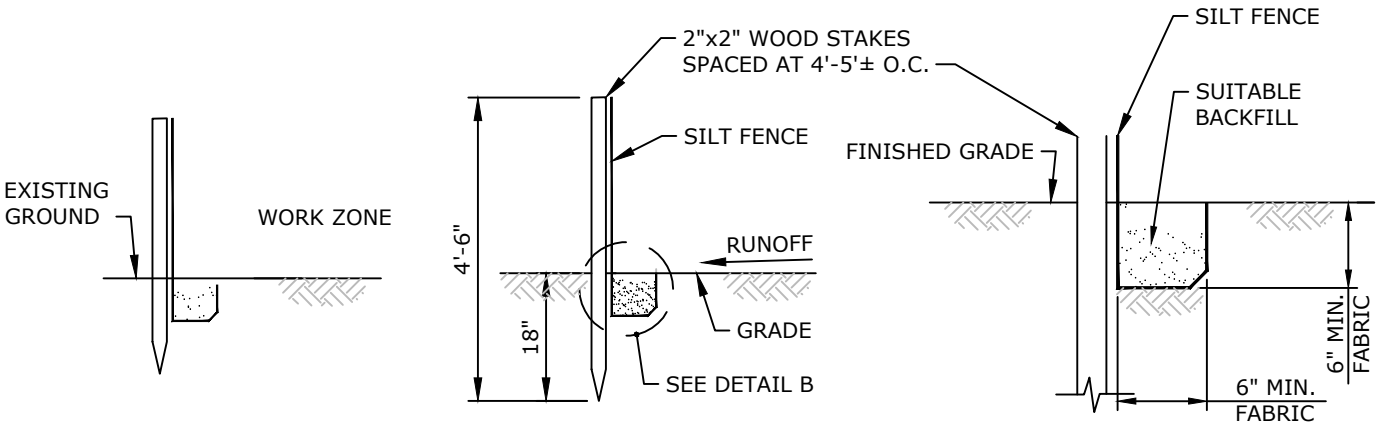
STRAW BALE BARRIER

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A21

EVERSOURCE



PLAN

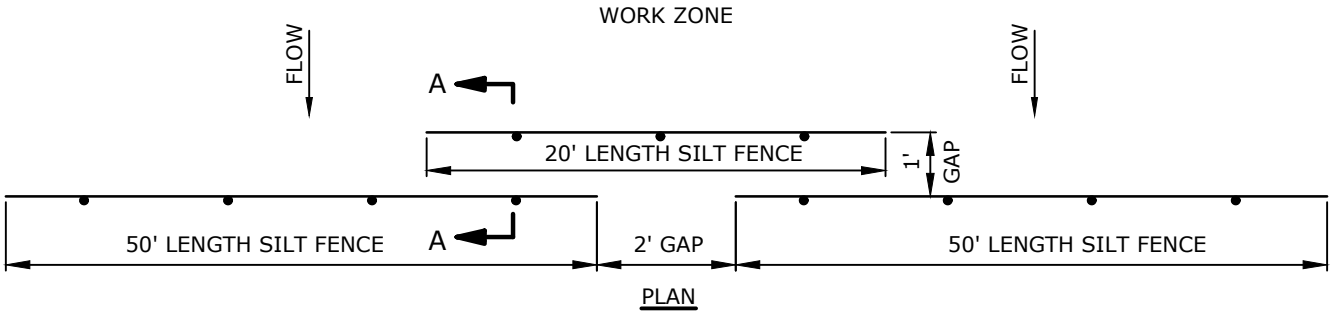


SECTION A-A DETAIL A DETAIL B

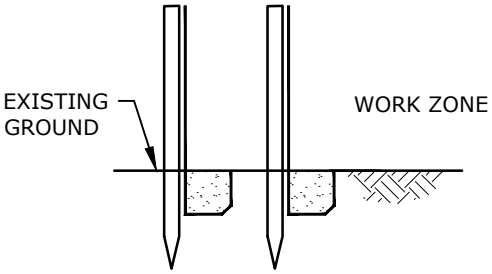
SILT FENCE

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A22

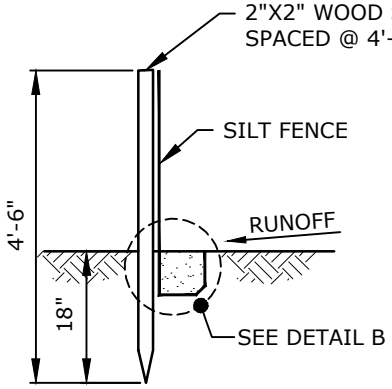
EVERSOURCE



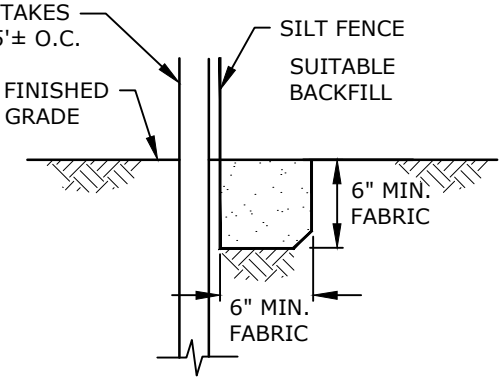
PLAN



SECTION A-A

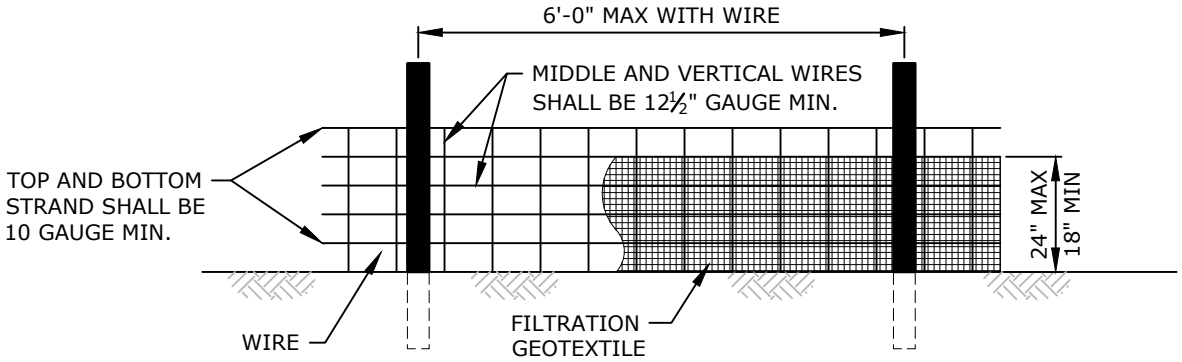


DETAIL A

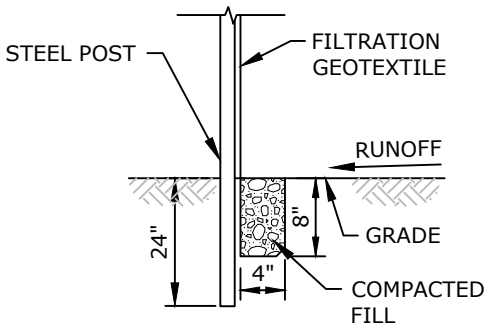


DETAIL B

SYNCOPATED SILT FENCE	
DATE: 12/2021	EVERSOURCE
SCALE: NO SCALE	
FIGURE: A23	



ELEVATION



SECTION

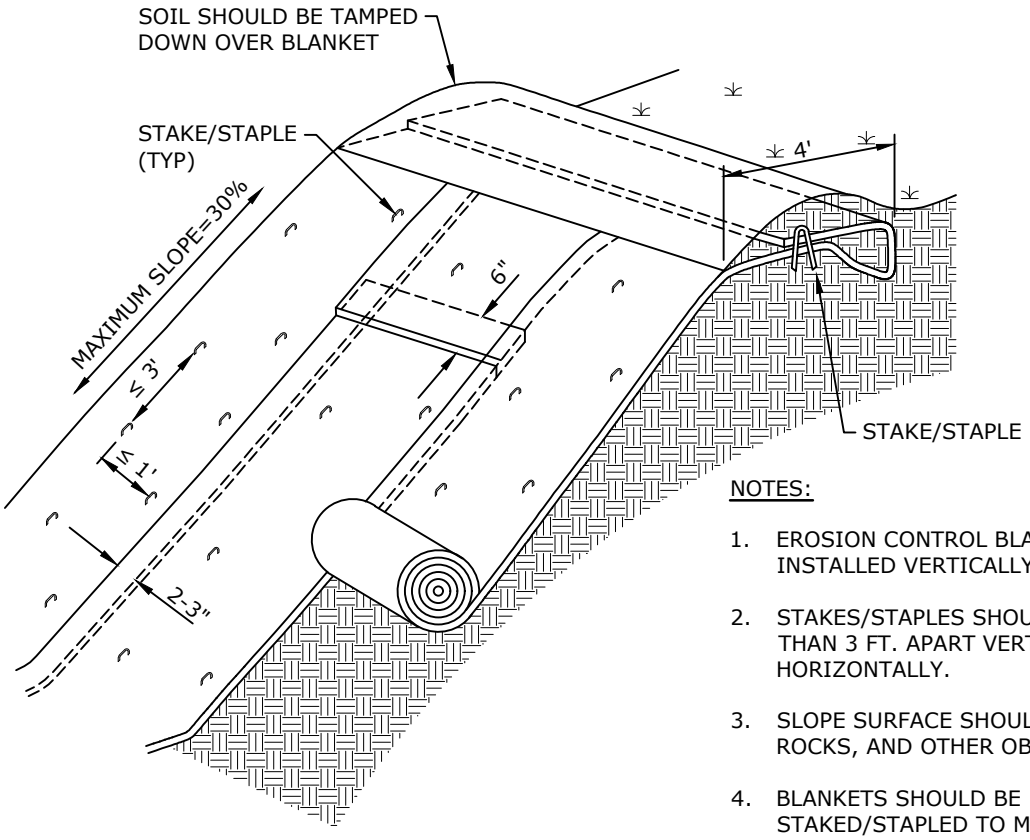
NOTES:

1. USE FILTRATION GEOTEXTILE A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE POSTS AND WIRES AS DIRECTED.
2. USE A WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
3. PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. FOR MECHANICAL SLICING METHOD INSTALLATION, GEOTEXTILE SHALL BE A MAXIMUM OF 18" ABOVE GROUND SURFACE.
5. EXTEND GEOTEXTILE AND WIRE INTO TRENCH.

REINFORCED SILT FENCE

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A24

EVERSOURCE



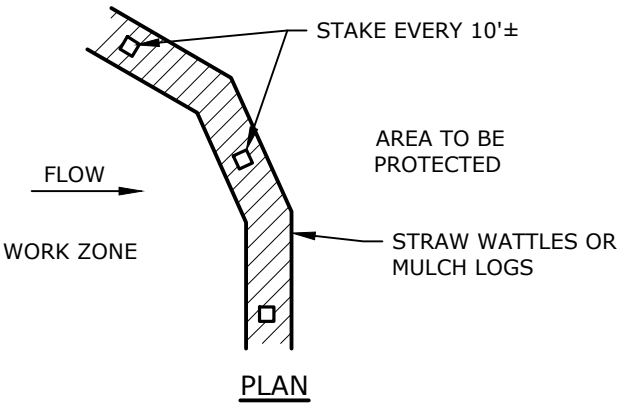
NOTES:

1. EROSION CONTROL BLANKET SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
2. STAKES/STAPLES SHOULD BE PLACED NO MORE THAN 3 FT. APART VERTICALLY, AND 1 FT. APART HORIZONTALLY.
3. SLOPE SURFACE SHOULD BE FREE OF STICKS, ROCKS, AND OTHER OBSTRUCTIONS.
4. BLANKETS SHOULD BE ROLLED OUT LOOSELY AND STAKED/STAPLED TO MAINTAIN DIRECT SOIL CONTACT. DO NOT STRETCH THE BLANKETS.
5. USE OF PRODUCTS WITH PLASTIC AND/OR NYLON NETTING IS PROHIBITED.

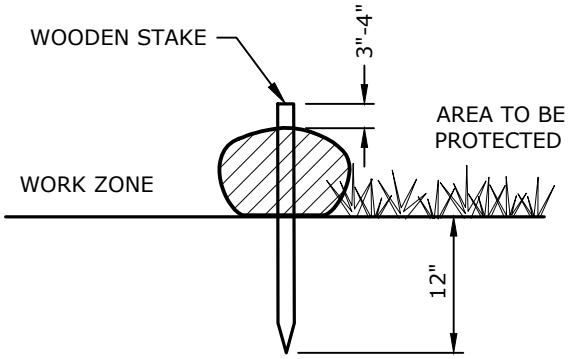
EROSION CONTROL BLANKETS

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A25

EVERSOURCE



PLAN



SECTION

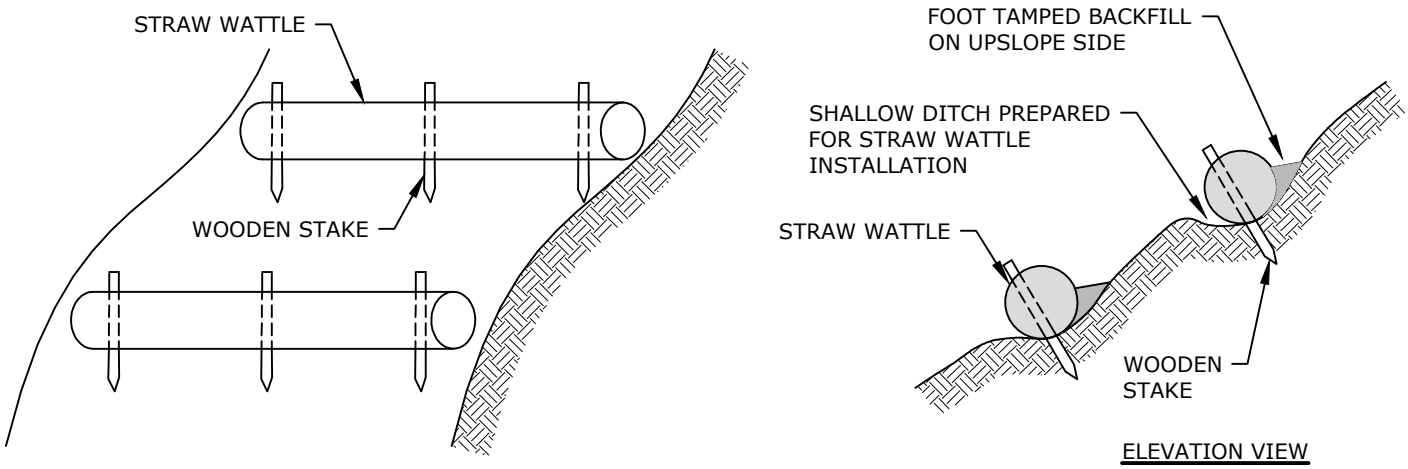
NOTE:

1. USE OF PRODUCTS WITH PLASTIC AND/OR NYLON NETTING IS PROHIBITED.

STRAW WATTLE/MULCH LOG

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A26

EVERSOURCE



NOTES:

1. USE OF PRODUCTS WITH PLASTIC AND/OR NYLON NETTING IS PROHIBITED.

2. VERTICAL SPACING FOR SLOPE INSTALLATIONS TO BE DETERMINED BY SITE CONDITIONS: SLOPE GRADIENT AND SOIL TYPE. CONFIRM SPACING PER MANUFACTURER'S SPECIFICATIONS. SEE BELOW FOR TYPICAL REQUIREMENTS. COORDINATE SPACING AND LOCATION WITH EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING.

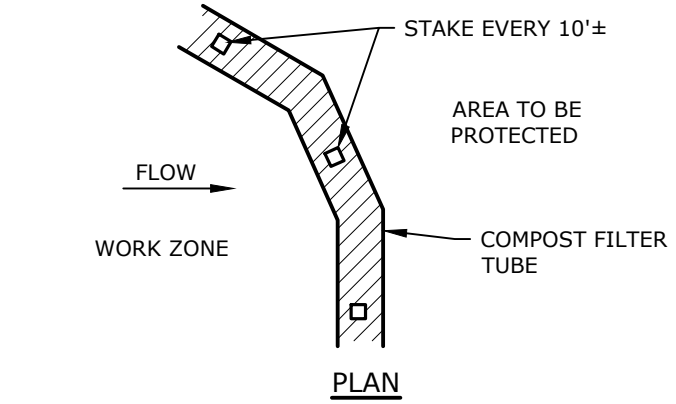
    - 1:1 SLOPES = 10 FEET APART
    - 2:1 SLOPES = 20 FEET APART
    - 3:1 SLOPES = 30 FEET APART

3. MINIMUM 12" DIAMETER WATTLES SHOULD BE USED FOR HIGHLY DISTURBED AREAS (E.G. HEAVILY USED ACCESS ROADS WITH ADJACENT WETLANDS). MINIMUM 8" DIAMETER WATTLES SHOULD BE USED FOR LESS DISTURBED SOILS.

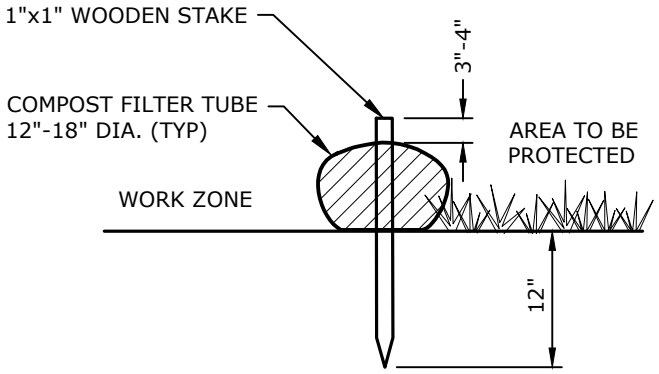
STRAW WATTLE
(ON SLOPE)

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A27

EVERSOURCE



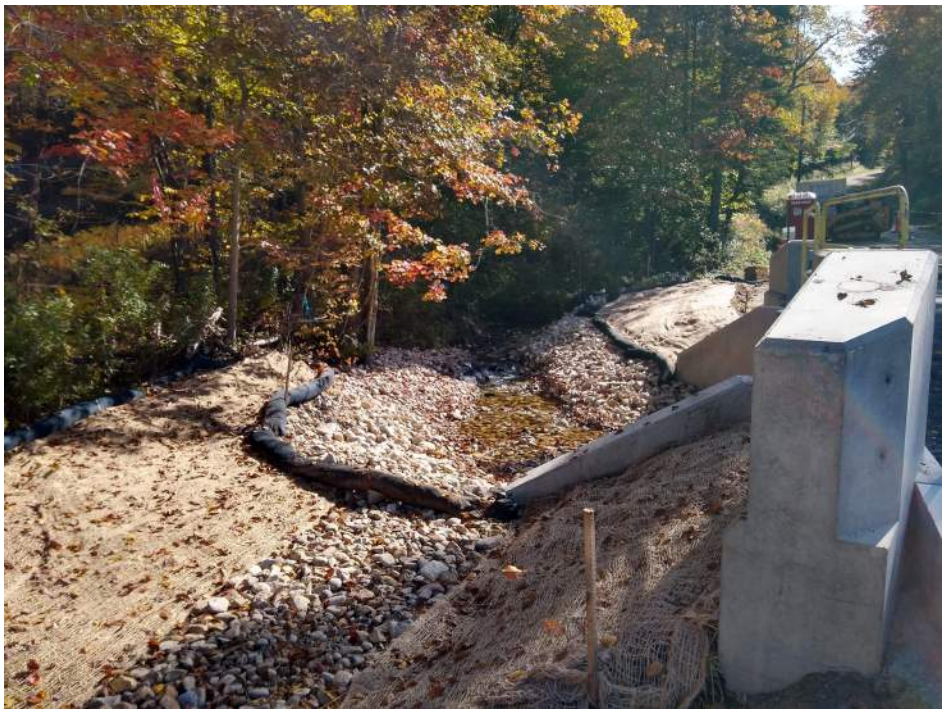
PLAN



SECTION

NOTES:

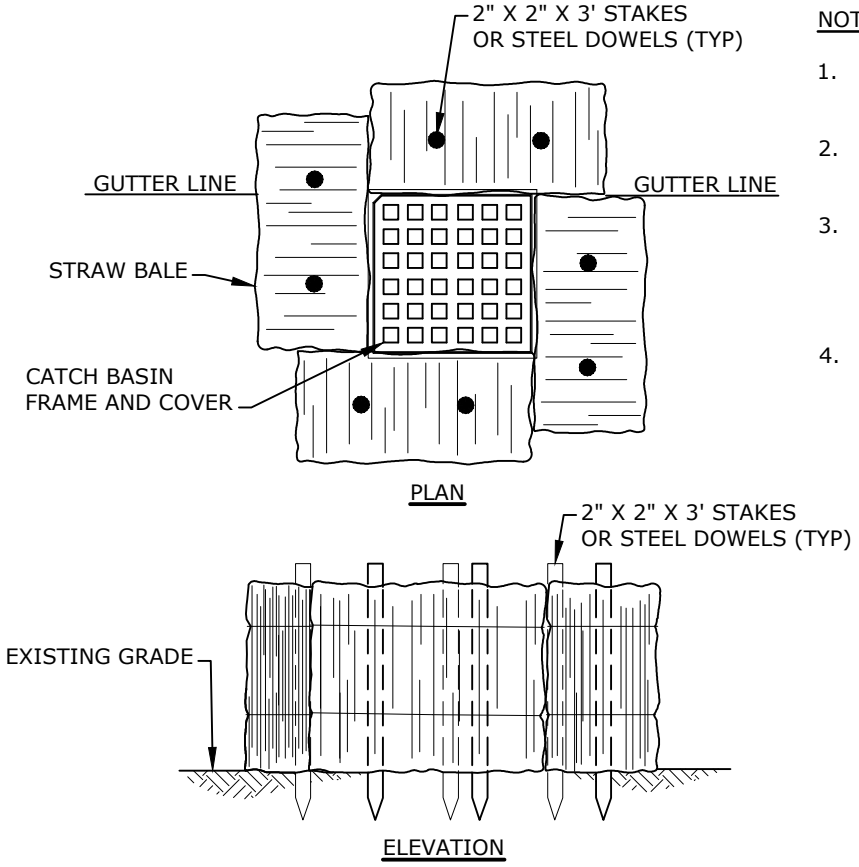
1. TUBES FOR COMPOST FILTERS SHALL BE JUTE MESH OR APPROVED BIODEGRADABLE MATERIAL.
2. TAMP TUBES IN PLACE TO ENSURE GOOD CONTACT WITH SOIL SURFACE.
3. PROVIDE 3' MINIMUM OVERLAP AT ENDS OF TUBES TO JOIN IN A CONTINUOUS BARRIER AND MINIMIZE UNIMPEDED FLOW.
4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE WITHIN LIMITS OF WORK, AS DIRECTED.
5. INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
6. DO NOT INSTALL IN PERENNIAL, EPHEMERAL, OR INTERMITTENT STREAMS.
7. CONFIGURE TUBES AROUND EXISTING SITE FEATURES TO MINIMIZE SITE DISTURBANCE AND MAXIMIZE CAPTURE AREA OF STORMWATER RUN-OFF.



COMPOST FILTER TUBE

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A28

EVERSOURCE



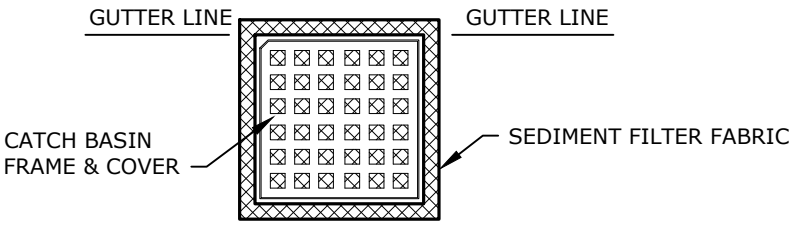
NOTES:

1. A MINIMUM OF TWO WOOD STAKES ARE REQUIRED PER STRAW BALE.
2. STEEL DOWELS MAY BE USED WHERE WOOD STAKES CANNOT BE DRIVEN INTO THE GROUND.
3. "SILT SACKS", "DANDY BAG II" OR OTHER SIMILAR SILT RETENTION DEVICES SHALL BE INSTALLED IN LIEU OF STRAW BALES FOR CATCH BASINS LOCATED IN EXISTING PAVED AREAS.
4. STRAW PRODUCTS ONLY; THE USE OF HAY OR HAY PRODUCTS IS STRICTLY PROHIBITED.

CATCH BASIN INLET PROTECTION
(STRAW BALES)

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A30

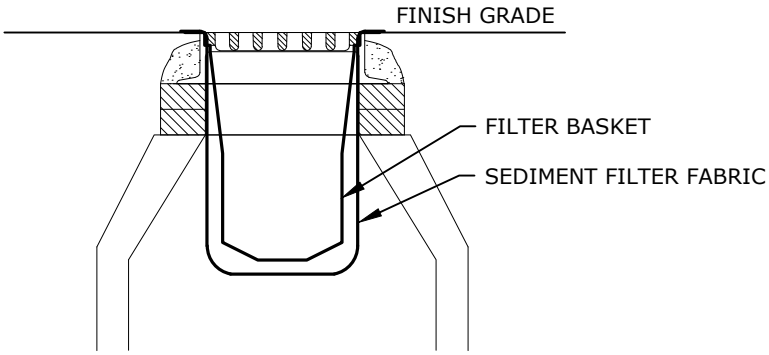
EVERSOURCE



PLAN VIEW

NOTES:

1. FILTER BASKET SHALL BE "SILT SAK" BY JENNIAN, MELROSE, MA; "DANDY BAG" BY DANDY PRODUCTS (1-800-591-2284); DRAIN PAC (91-800-272-2832); OR APPROVED EQUIVALENT SUBJECT TO CONSULTATION WITH EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING.
2. FILTER BASKETS SHOULD BE USED IN COMBINATION WITH ANOTHER INLET PROTECTION MEASURE SUCH AS SEDIMENT FILTER FABRIC IF DRAINAGE AREA IS SMALL WITH SHALLOW FLOWS.



ELEVATION VIEW

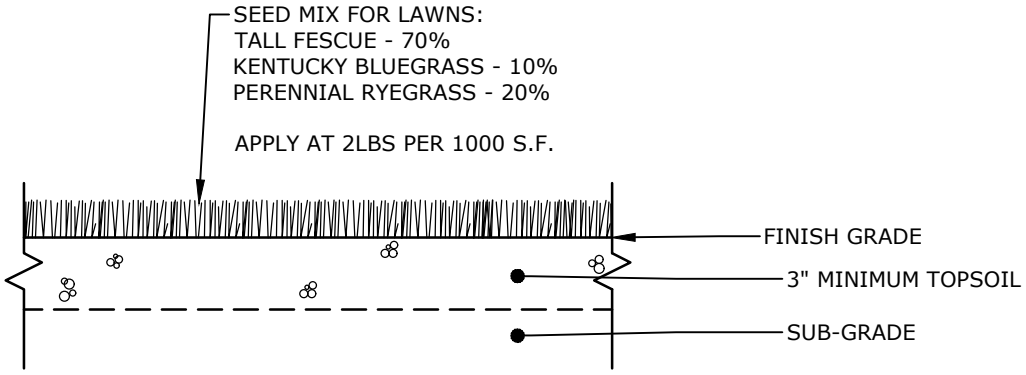
CATCH BASIN INLET PROTECTION
(SILT SACK)

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A31

EVERSOURCE

NOTE:

THE SEED MIX UTILIZED SHALL CONSIST OF QUICK GROWING, DROUGHT TOLERANT, NATIVE GRASSES, SUCH AS RYES. THE SEED MIX UTILIZED WITHIN THE BUFFER ZONE TO WETLAND RESOURCE AREAS MAY CONSIST OF QUICK GROWING, DROUGHT TOLERANT, NATIVE GRASSES BUT MUST CONTAIN AT LEAST 50% OF A NATIVE SEED MIX WITH HIGH HABITAT VALUE, SUCH AS ONES WHICH CONTAIN PERENNIAL SHRUBS, WILDFLOWERS. CONSULT WITH EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING FOR PROJECT SPECIFIC REQUIREMENTS.



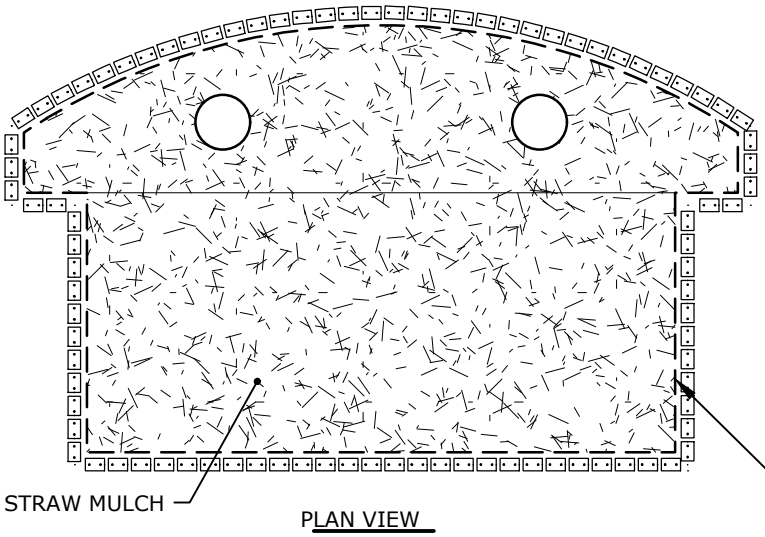
LOAM AND SEED

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A32

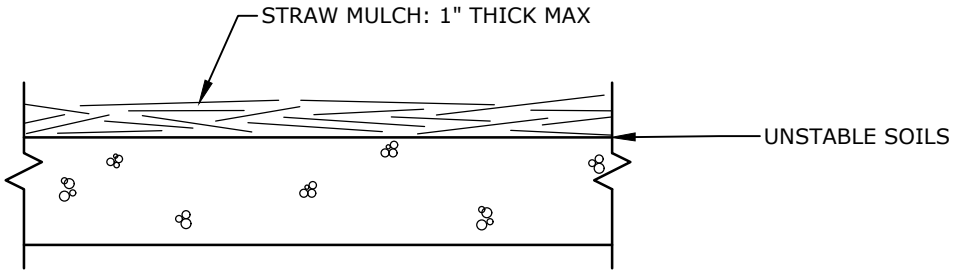
EVERSOURCE

NOTES:

1. STRAW PRODUCTS ONLY; THE USE OF HAY OR HAY PRODUCTS IS STRICTLY PROHIBITED.
2. MULCH APPLICATION SHALL NOT EXCEED 1" IN THICKNESS.
3. WOOD CHIPS MAY BE SUBSTITUTED FOR STRAW MULCH SUBJECT TO EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING APPROVAL.
4. CONSULT WITH EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING FOR PROJECT SPECIFIC REQUIREMENTS.



PLAN VIEW

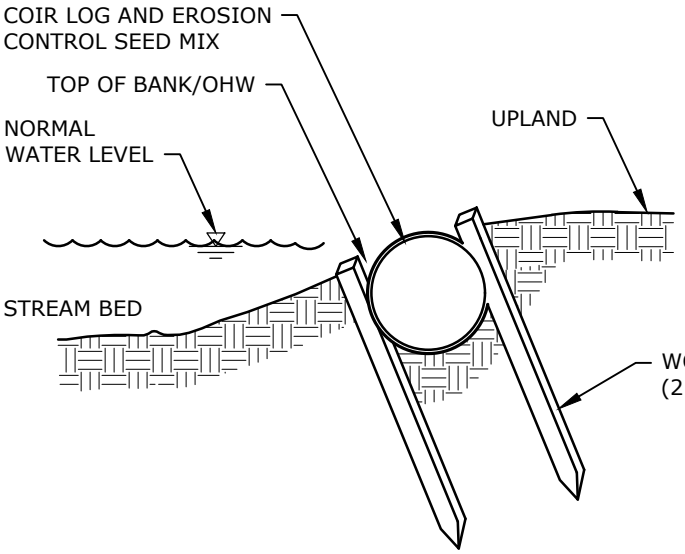


ELEVATION VIEW

STRAW MULCH

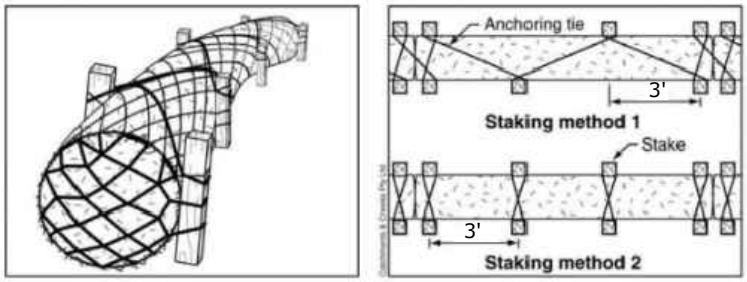
DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A33

EVERSOURCE



NOTES:

1. USE OF PRODUCTS WITH PLASTIC AND/OR NYLON NETTING IS PROHIBITED.
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. INSTALLATION MAY INCLUDE SEEDING AND/OR OTHER NATIVE PLANT INSTALLATION. CONSULT EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING.

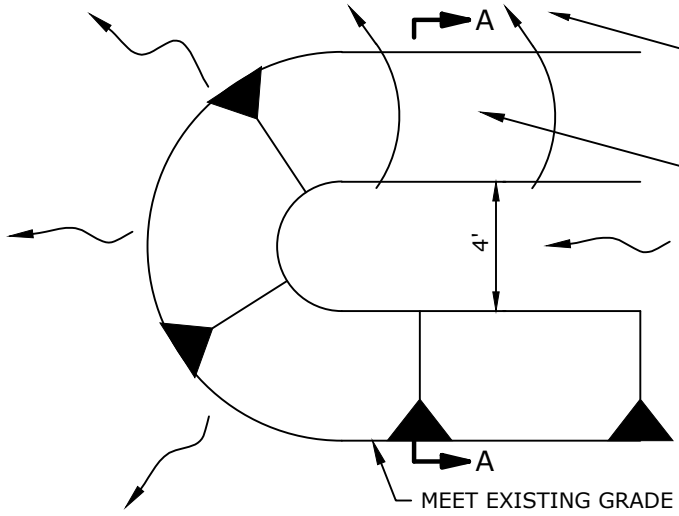


TYPICAL STAKING

COIR LOG

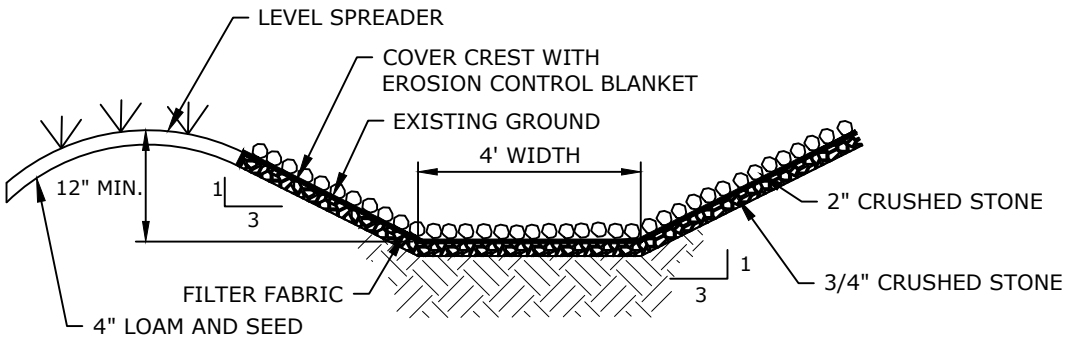
DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A34

EVERSOURCE



NOTE:
WHERE GROUND DOWNSTREAM OF LEVEL SPREADER HAS BEEN DISTURBED, VEGETATIVE COVER SHALL BE ESTABLISHED.

PLAN VIEW

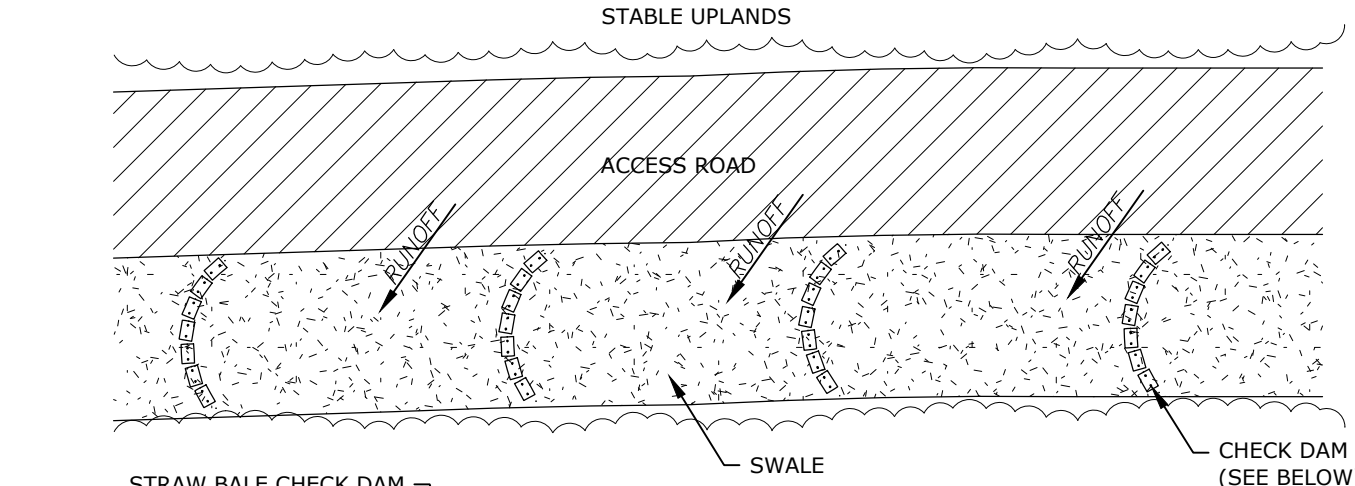


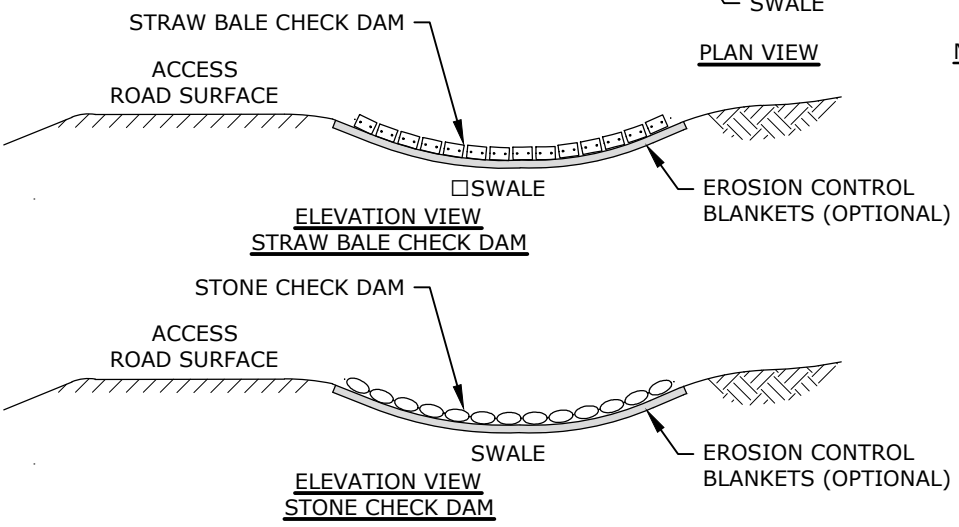
SECTION A-A

LEVEL SPREADER

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A35

EVERSOURCE





PLAN VIEW

ELEVATION VIEW
STRAW BALE CHECK DAM

ELEVATION VIEW
STONE CHECK DAM

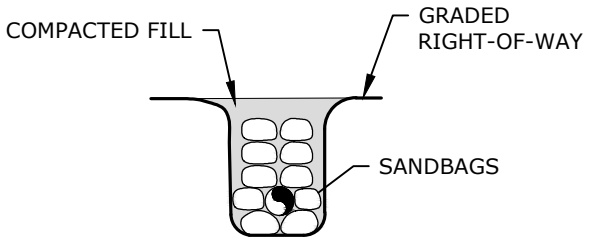
NOTES:

1. CHECK DAMS SHALL BE CONSTRUCTED OF STONE OR STRAW PRODUCTS ONLY; THE USE OF HAY OR HAY PRODUCTS IS STRICTLY PROHIBITED.
2. HEIGHT AND SPACING OF CHECK DAMS IS DEPENDENT ON SLOPES AND RUNOFF CONDITIONS. CONSULT WITH EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING PRIOR TO INSTALLATION FOR PROJECT SPECIFIC REQUIREMENTS.
3. REMOVE TEMPORARY CHECK DAMS UPON SWALE STABILIZATION AND/OR COMPLETION OF CONSTRUCTION.

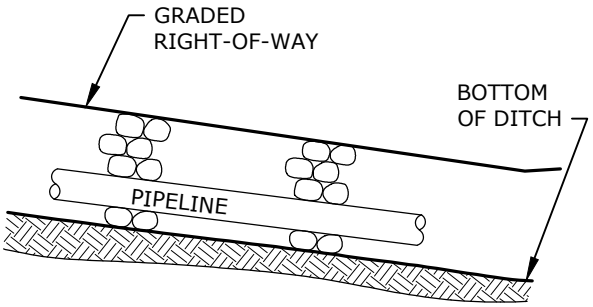
CHECK DAMS

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A36

EVERSOURCE

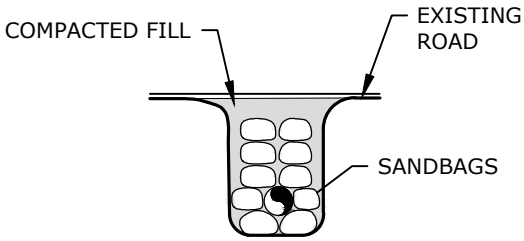


SECTION

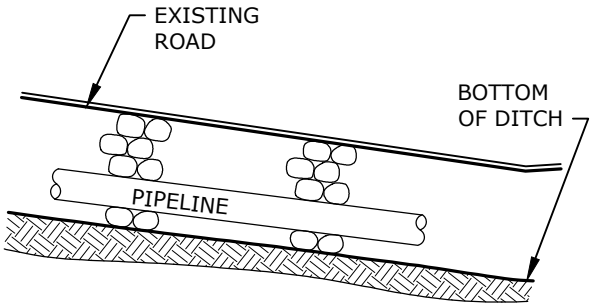


ELEVATION

CROSS-COUNTRY BURIED PIPELINE



SECTION



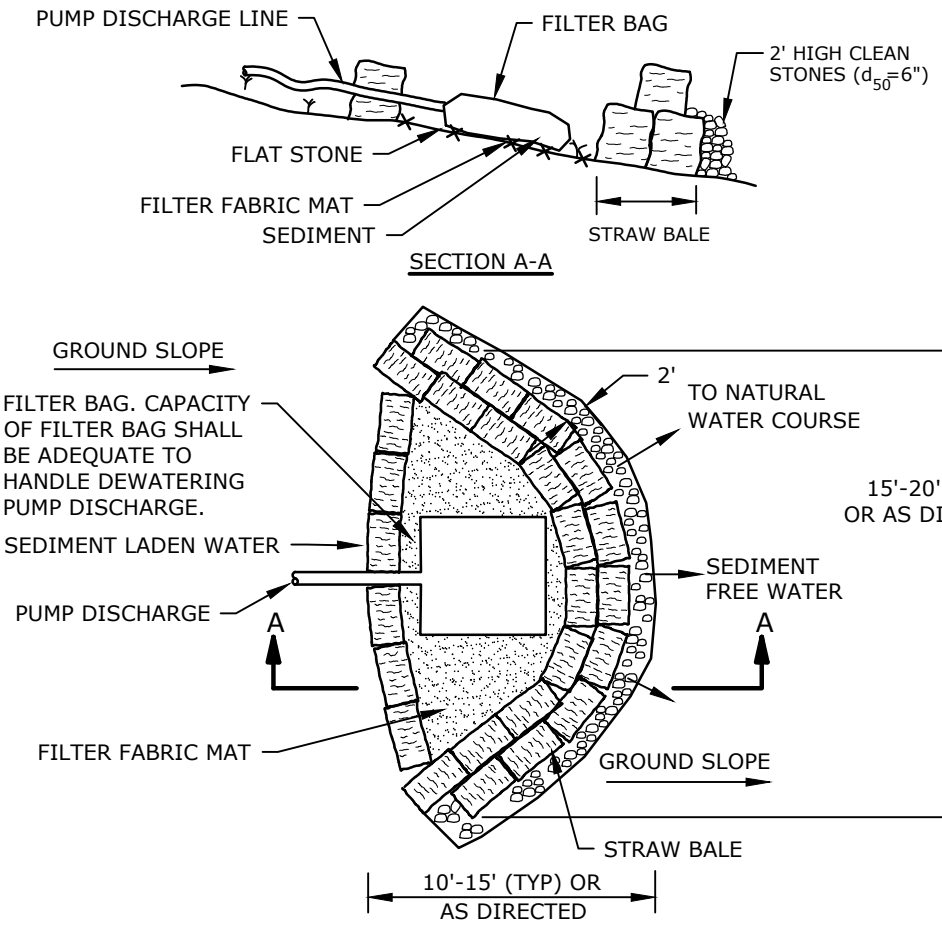
ELEVATION

IN-ROAD BURIED PIPELINE

TRENCH BREAKER

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A37

EVERSOURCE



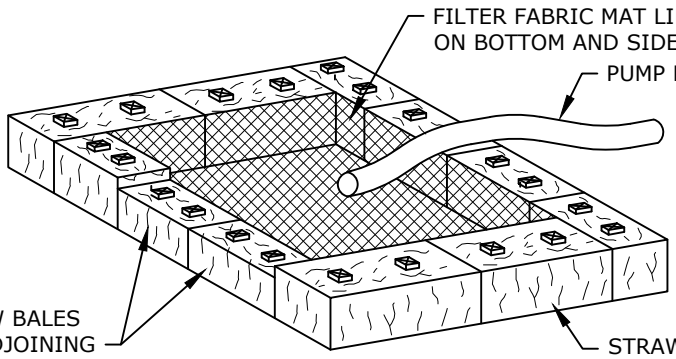
NOTES:

1. LOCATION OF SEDIMENT TRAP SUBJECT TO CONSULTATION WITH EVERSOURCE ENVIRONMENTAL LICENSING AND PERMITTING.
2. SEDIMENT TRAPS OR SETTLING BASINS SHALL BE USED FOR CONSTRUCTION DEWATERING.
3. DISCHARGE AWAY FROM WORK AREA/DEWATERING AREA.

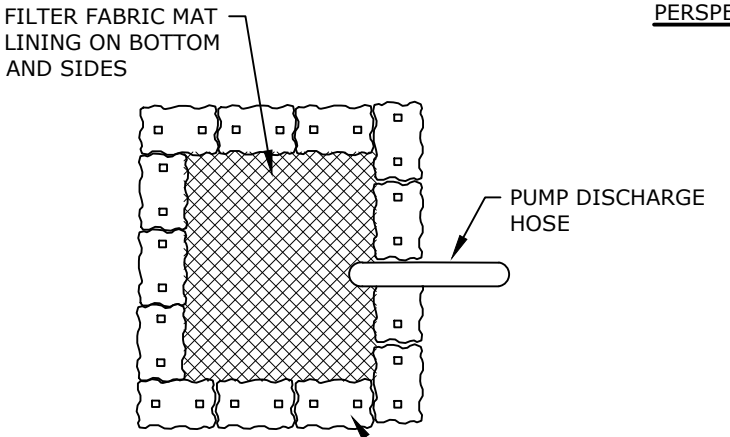
SEDIMENT TRAP

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A38

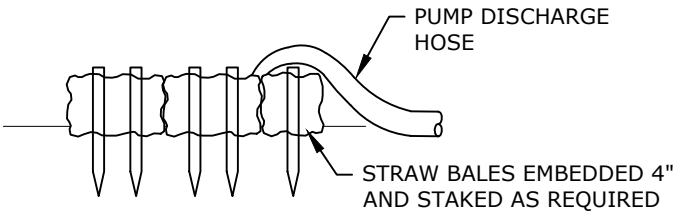
EVERSOURCE



PERSPECTIVE



PLAN VIEW



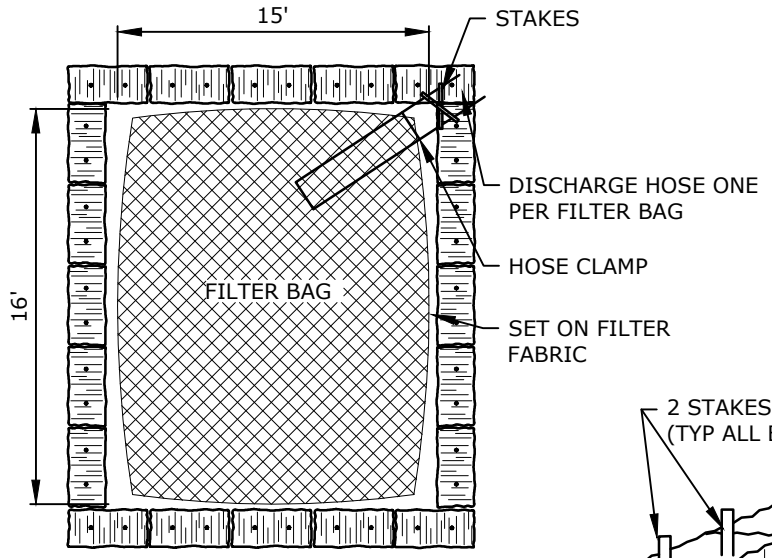
SECTION

NOTE:
PLACE DEWATERING/PUMPING SETTLING BASINS IN A WELL-VEGETATED AREA, OUTSIDE OF WETLANDS WHENEVER PRACTICABLE.

DEWATERING BASIN

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A39

EVERSOURCE

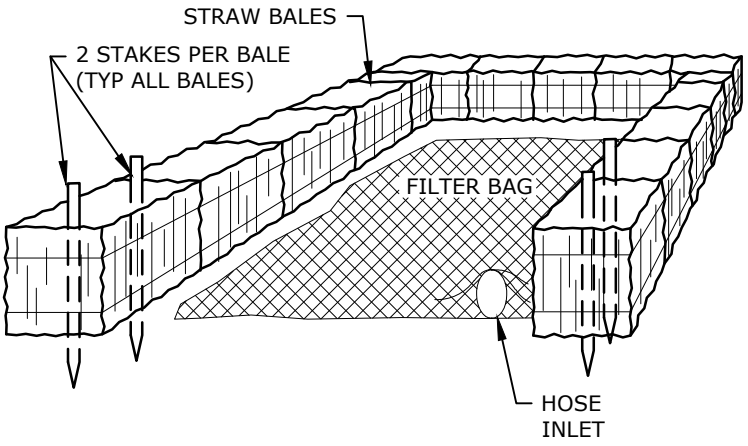


PLAN

SECTION

NOTE:

PLACE FILTER BASINS IN A WELL-VEGETATED AREA, OUTSIDE OF WETLANDS WHENEVER PRACTICABLE.

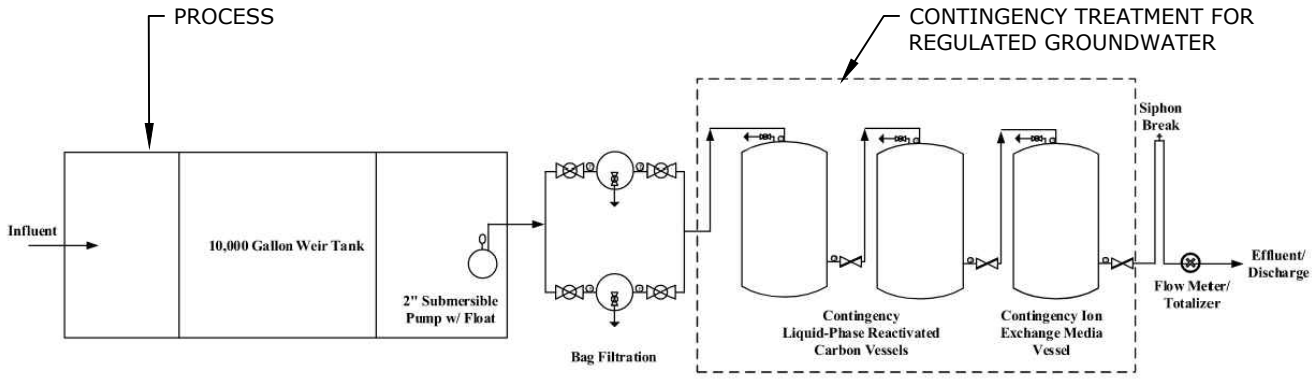


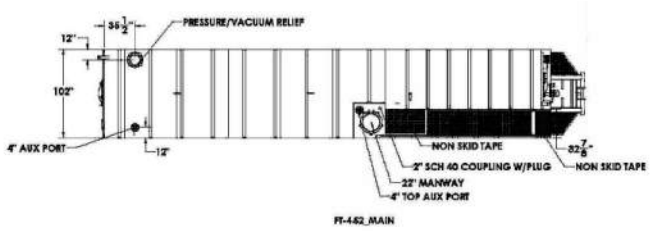
PERSPECTIVE

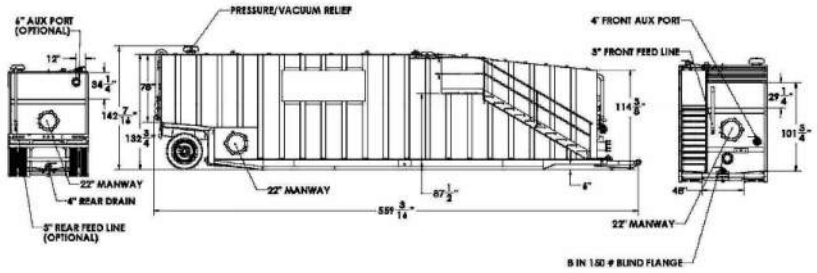
DEWATERING BASIN
(FILTER BAG)

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A40

EVERSOURCE







DEWATERING BASIN
(FRAC TANK)

DATE:	12/2021
SCALE:	NO SCALE
FIGURE:	A41

EVERSOURCE

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