Pulaski Boulevard Bellingham Pole Replacement Project
Bellingham, MA
Request for Determination of Applicability

Bellingham Conservation Commission
November 2025

Prepared for:
Massachusetts Electric Company (MECO)
170 Data Drive
Waltham, MA 02451

BSC Project No. 102290.00

Prepared by:

BSC GROUP

1 Mercantile Street, Suite 610
Worcester, MA 01608

BSC GROUP
BUILD | SUPPORT | CONNECT

Engineers
Environmental Scientists
Software Developers
Landscape Architects
Planners
Surveyors

NOVEMBER 20, 2025

www.bscgroup.com

Bellingham Conservation Commission
10 Mechanic Street
Bellingham, MA 02019

RE: Request for Determination of Applicability
Pulaski Boulevard Bellingham Pole Replacement Project
Massachusetts Electric Company (MECO)
Bellingham, MA

Dear Members of the Bellingham Conservation Commission:

BSC Group, Inc. ("BSC") is filing this Request for Determination of Applicability ("RDA") on behalf of Massachusetts Electric Company ("MECO") for activities associated with pole replacements (Poles 64 and 65) along Pulaski Boulevard in Bellingham, MA (the Project).

While the poles are located within the landscaped and paved road shoulder, they are also located within the Wetland Protection Act ("WPA") 100-ft Buffer Zone to Bordering Vegetated Wetland ("BVW") and Inland Bank, the 200-ft Riverfront Area associated with Arnolds Brook which is a state Coldwater Fisheries Resource, the Bellingham 25-ft No Disturb Zone, and the Bellingham 50-ft No Structure Zone. Additionally, both pole replacements are located within a Zone II Wellhead Protection Area. The proposed pole replacements are considered an exempt utility maintenance activity under the WPA (310 CMR 10.02(2)(a)(2)). Therefore, no filing under the WPA is required. The location of the proposed Project is shown on the Environmental Resources ("ER") Map and USGS Site Locus Map in **Attachment B.**

Subject of RDA: Pulaski Boulevard Bellingham Pole Replacement within Buffer Zone

The subject of this RDA includes two (2) pole replacements along Pulaski Boulevard that will occur within Buffer Zone and Riverfront Area. Under the WPA, the Project is considered an exempt maintenance activity (310 CMR 10.02(2)(a)(2)). This RDA is being filed solely under the Bellingham Wetland By-Laws, which do not provide exemptions for utility maintenance work.

All work will be conducted from within the existing roadway and the poles are located in existing disturbed areas. The new poles will be directly embedded in the ground, any excavated soils will be used to backfill the hole, old poles will be removed, and the sidewalk will be patched as needed. The entire installation process will disturb approximately four (4) square feet per pole. Pole 64 is located within a paved sidewalk area, and Pole 65 is located within a landscaped road shoulder adjacent to Arnolds Brook.

Throughout the Project, MECO crews will implement best management practices ("BMPs") to avoid adverse impacts to adjacent Resource Areas. Crews will restore disturbed areas to meet pre-construction conditions to the extent practicable once the work is complete. Therefore, MECO is seeking a Negative Determination under the Local Bylaw to allow the work to proceed as described herein.

Environmental Resource Areas

BSC performed a desktop analysis of Environmental Resource Areas using MassGIS data layers and other available mapping. Additionally, BSC conducted a site visit to review and confirm resource areas on November 3rd, 2025. Photos from this site visit are contained in **Attachment C**. Based on these assessments, Pole 65 is located within 25ft No Disturb Buffer upslope of the stream and wetland complex in a vegetated upland area on the road shoulder and Pole 64 is located within 100ft Buffer to Wetlands and Streams along paved road shoulder. Jurisdictional wetland resource areas and proposed work are depicted on the Environmental Resource Map in **Attachment B**.

Proposed Work Description

MECO proposes replacement of existing poles along Pulaski Boulevard in Bellingham, MA. Any excess spoils will be removed from the site and disposed of properly. The general sequence of replacements includes the following:

- Crews will install BMPs as needed for erosion and sedimentation control.
- Where necessary, crews will cut the sidewalk adjacent to the existing pole.
- Crews will install the new poles adjacent to the existing poles. New poles will be directly embedded and excavated soils will be used to backfill the hole.
- Old poles will be removed, and the sidewalk will be patched as necessary.

Following the pole replacement, MECO will restore disturbed areas to meet pre-construction conditions to the extent practicable. Additionally, there will be no permanent change to current conditions within the Buffer Zone following the completion of construction. MECO will use BMPs, including sediment and erosion controls, as necessary during construction to avoid impacts to adjacent resource areas. Please refer to the following sections for additional details.

Construction Methods and Proposed Avoidance and Minimization Measures

MECO has established procedures followed by all employees and its contractors for accessing sites and performing construction activities. These procedures ensure that MECO's projects are completed in accordance with all applicable environmental laws and regulations as well as with MECO policies and compliance objectives. The following sections provide a summary of BMPs that MECO will implement for this Project. See **Attachment D** for an excerpt of National Grid's Environmental Guidance Document, Access, Maintenance and Construction Best Management Practices.

Erosion and Sediment Controls

Crews will install sediment controls prior to commencing work, which may include straw bales, fiber rolls, or straw wattles. Please refer to **Attachment D** for additional details on the BMPs to be utilized. Ground disturbance associated with the Project will be minimal and contained to the area directly around the existing poles. Temporarily displaced soil will be side cast and used as backfill where the material is suitable. Any remaining spoils will be disposed of appropriately off site.

Vehicle Refueling and Maintenance

Vehicles requiring refueling or lubrication shall be brought to a portion of the work site away from all environmentally sensitive areas, including wetlands, storm drains, culverts, wells, etc. The operator shall take precautions to ensure that drips, spills, or seeps do not enter the ground. During refueling, the use

of absorbent materials or secondary containment devices beneath the fuel tank will be used as needed to prevent the discharge of pollutants to jurisdictional resource areas.

Restoration

Disturbed areas will be stabilized, and the site will be returned to pre-construction conditions to the extent practicable. Construction materials, vehicles, and non-biodegradable sediment controls will be removed from the site upon completion of work.

CONCLUSION

MECO is proposing to replace two (2) existing poles within the road shoulder of Pulaski Blvd. As described, MECO will use BMPs to avoid impacts to resource areas adjacent to the Project site. There will be no substantial change or enlargement of the existing poles. The replacement activity will not impact or alter adjacent wetland resource areas, therefore, MECO is seeking Negative Determination under the Bellingham Wetlands Bylaw.

Enclosed are three (3) printed copies of the RDA application package and associated maps and plans, and an electronic version has been emailed to the Conservation Commission. The appropriate filing fee is included. We respectfully request this matter be heard at the next scheduled Conservation Commission meeting. The work may be scheduled to begin as soon as permissible.

If you have any questions regarding the enclosed information, please contact me at (317)-658-5244 or Matthew Todd at (207)-317-3731. Thank you for your consideration in this matter.

Sincerely,

BSC Group, Inc.

Olivia Shaw

Olivia Shaw
Ecological Project Manager

cc: Matthew Todd
Massachusetts Electric Company

Table of Contents

Pulaski Boulevard Bellingham Pole Replacement Project
Bellingham, MA
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BSC GROUP

Attachment A

Pulaski Boulevard Bellingham Pole Replacement Project
Bellingham, MA
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BELLINGHAM APPLICATION FOR PERMIT FORM

BSC GROUP

Application for Permit
Bellingham Wetlands Protection Bylaw & Regulations

1. Applicant: Name: Matthew Todd Phone: (207)-317-3731
Address: 170 Data Drive, Waltham, MA 02451
E-mail: Matthew.Todd@nationalgrid.com

2. Project Location: Street: Pulaski Blvd in Bellingham, MA

Assessor's Map N/A Parcel\Lot N/A

3. This application is filed simultaneously with and consistent with the Project Filing Guidelines found on the town web site for:

- [X] Request for Determination of Applicability
- [ ] Abbreviated Notice of Resource Area Delineation
- [ ] Notice of Intent
- [ ] Abbreviated Notice of Intent
- [ ] Amendment Request

Resource Area(s) Delineation to be confirmed: (Please complete number of linear feet)

Linear Feet

_____ Bordering Vegetated Wetlands (BVW)
_____ Bordering Land Subject to Flooding (BLSF)
_____ Isolated Land Subject to Flooding (ILSF)
_____ Isolated Vegetated Wetland (IVW)
_____ Land Under Water Bodies (LUWB)
_____ Bank
_____ Perennial Stream: (MHAW) Stream Name: _____
_____ Intermittent Stream:

Is Estimated or Priority Habitat present on the site? Yes_____ No _____
Species: _____

Number of Vernal Pools present on the site: Certified _____ Potential _____

4. Work is proposed in the following Resource Areas:

[ ]	Bank	Total #of square feet of impacts:
[ ]	Beach or Flat	Total #of square feet of impacts:
[ ]	Land Subject to Flooding(bordering or isolated)	Total # of square feet of impacts
[ ]	Bordering Vegetated Wetlands	Total # of square feet of impacts
[X]	Buffer Zone	Total # of square feet of impacts 4*2=8
[ ]	Isolated Wetland	Total # of square feet of impacts
[ ]	Lakes or Ponds	Total # of square feet of impacts
[ ]	Land under Water Bodies	Total # of square feet of impacts
[ ]	Riverfront Area	Total # of square feet of impacts
[ ]	Vernal Pool	Total # of square feet of impacts
		Total # of above 8

5. Work is proposed in the following No Alteration Zones:

☐	Areas of Critical Environmental Concern	Total# of square feet of impacts	
☐	Buffer Zone 0 -25 feet	Total# of square feet of impacts	
☐	Estimated Habitat	Total# of square feet of impacts	
☐	Priority Habitat	Total# of square feet of impacts	
☐	0 – 50 feet No Disturb Zone to Vernal Pool	Total# of square feet of impacts	
		Total of above	

6. Work in buffer zone only:

☒	0-25 feet	Total# of square feet of impacts	4
☐	25-50 feet	Total# of square feet of impacts	
☒	50-100 feet	Total# of square feet of impacts	4
		Total of above	8

7. Project Description:

a. Existing Conditions where work is proposed

☒	Impervious	☒	Lawn or landscaped area
☐	Regulated Resource Area	☐	Wooded or natural area
☐	Other		

b. Description of proposed work: Pole replacement (Poles 64 and 65) along Pulaski Blvd in Bellingham, MA

c. Type of equipment required for project: Various trucks within the existing roadway

d. Type of erosion control proposed: Refer to Attachment D

8. Plans must adhere to the criteria in Section 29 "Plan Requirements" of the Regulations.

9. Project Impacts (Use separate page if necessary referring to corresponding item)

Buffer Zone Setback:

If the project involves work in the buffer zone only, what is the shortest distance between project disturbance and the regulated resource area? 15 feet

Tree Cutting:

List the number of trees and approximate diameter of tree(s) in jurisdictional areas proposed for removal: (Use separate sheet if necessary.) _____

Fill & grading:

Amount of fill proposed for removal from site	0	cu yds.
Amount of fill proposed for use on site	0	cu yds.

Explain the difference between the proposed final grade and the existing conditions. N/A

Explain proposed site stabilization methodology during and post construction. _____

Crews will install sediment controls prior to commencing work and will restore disturbed areas to meet pre-construction conditions to the extent practicable.

10. If an exemption or waiver from the WPA or the Bellingham Wetland Bylaw will be required to complete the proposed project, the applicant shall, at the time of filing, provide information consistent with six requirements listed in Section 10 of the Bellingham Wetland Regulations.

11. The following completed items are included in each set of the filing:

☐ Abutters list, ☐ Abutter Notification Form, ☐ Affidavit of Service, ☒ Bylaw Fee Calculation, ☒ Worksheet & remittance ☒ Plans (see #8 above), ☒ Narrative for projects **Please include**: THUMB DRIVE with pdf copy of entire filing

12. **Statement of applicant:** I hereby certify under penalties of perjury that this application and all supporting plans and documents are true and complete to the best of my knowledge and that these have been prepared in conformance with the requirement of the Bellingham Wetlands Protection Bylaw and its attendant Regulations I further certify that all abutters and other parties have been notified of this application as required by the Bellingham Wetlands Protection Regulations. I understand that I may be asked to pay for a consultant to review my application for the Commission.

Initialed sign off by Treasurer's Office:

CERTIFICATION OF MUNICIPAL TAXES AND CHARGES PAID
TOWN OF BELLINGHAM

Property Information	
Parcel ID	
Map	
Lot	
Street Number	
Street Name	
First Name	
Last Name	

As the Collector

Taxes / Charges	**Paid**
Tax Title	☐
Motor Excise Tax	☐
Real Estate Tax	☐
Personal Property Tax	☐
Water	☐
Sewer	☐
Trash	☐

As the Collector/Treasurer for the Town of Bellingham, MA I certify that the municipal taxes are paid in full for the above property.

(Print name) _____ (Signature) _____

(Date) _____

3/2011, 8/2017, 2/2021

Conservation Commission Category Activities and Fees

Category 1 (Fee for each activity is **$50**):

a.) work on single family lot; addition, pool, etc.;
b.) site work without a house;
c.) control vegetation;
d.) resource improvement;
e.) work on septic system separate from house;
f.) monitoring well activities minus roadway;
g.) new agricultural or aquaculture projects.

Category 2 (Fee for each activity is **$125**)

a.) construction of single family house;
b.) parking lot;
c.) beach nourishment;
d.) electric generating facility activities;
e.) inland limited projects minus road crossings and agriculture;
f.) each crossing for driveway to single family house;
g.) each project source (storm drain) discharge;
h.) control vegetation in development;
i.) water level variations;
j.) any other activity not in Category 1, 3, or 4;
k.) water supply exploration.

Category 3 (Fee for each activity is **$250**)

a.) site preparation (for development) beyond Notice of Intent scope;
b.) each building (for development) including site;
c.) road construction not crossing or driveway;
d.) hazardous cleanup;
e.) water supply development.

Category 4 (Fee for each activity is **$500**):

a.) each crossing for development or commercial road;
b.) dam, sluiceway, tidegate (safety) work;
c.) landfills operation/closures;
d.) sand and gravel operations;
e.) railroad line construction;
f.) bridge;
g.) hazardous waste alterations to resource areas;
h.) dredging;
i.) package treatment plant and discharge;
j.) airport tree clearing;
k.) oil and/or hazardous material release response actions.

Category 5 (Fee is $2.00/linear foot):

a.) Construction, repair, replacement of docks, piers, revetments, dikes, or other engineering structures on inland resource areas.

Revised 7/1/2013

Town of Bellingham Wetlands Protection Bylaw
Fee Calculations Worksheet
(Bylaw Fees are in addition to WPA Fees)
Fees must be submitted with application
(Check to be made payable to "Town of Bellingham")

1. **A flat fee of $50.00 each for the following requests: (*check off appropriate item*)**

_X_ Request for Determination of Applicability (RDA)…… $ 50
(For RDA also see item 4 or 5 below as appropriate)

_____Request for an Extension to Orders of Conditions (Ext)---------- $ _____

2. **The following schedule applies for Notice of Intent (NOI) categories at 310CMR 10.03(7) (c), as follows:**

*(Also complete Item #4 below for all filings including RDA, NOI and ANRAD and Item #5 for Riverfront Area if applicable.)

		No.	Total
Category 1	**$ 50.00 per activity**	**x _____**	**= $ _____**
Category 2	**$125.00 per activity**	**x _____**	**= $ _____**
Category 3	**$250.00 per activity**	**x _____**	**= $ _____**
Category 4	**$500.00 per activity**	**x_____**	**= $ _____**
Category 5	**$ 2.00 per linear ft.**	**x _____**	**= $ _____**

3. **A flat fee of $50.00 for Request for an Amendment to each existing Order of Conditions permit:**

$ 50.00 per activity x ___ = $____

4. **Application for review of Resource Area Delineation: .20 per linear foot (not less than $25.00 or more than $200.00 for single family house projects; not less than $50.00 or more than $2,000.00 for any other activity).**

- *This fee will be in addition to the fee for a Request for Determination of Applicability (RDA) or Notice of Intent (NOI) listed in items #1 for RDA and #2 NOI or Abbreviated Notice of Resource Area Delineation (ANRAD).*

Type of activity: _____

Total linear feet _____x .20/linear foot = $_____
($25/ min. or $2000/ max.)

5. **Fees for projects within the Riverfront Area and another resource area shall be 150% of the above fees:**
(Check off appropriate item below)

_____
_X_ Request for Determination of Applicability (RDA) **$ 50.00 x 150% = $** 75
_____ Notice of Intent (NOI) (total from item 2 above) **$ _____x 150% = $** _____

Total Bylaw Fee Submitted $ 75

DEP & BWP File No. N/A

Name & Address of Applicant: Matthew Todd, 170 Data Drive, Waltham, MA

Project name (if applicable): Pulaski Boulevard Pole Replacement Project

Project location: Assessors Map: N/A Lot or Parcel: N/A Street Address: Next to 740 Pulaski Boulevard

Checklist for filing under Bellingham Wetlands Protection Bylaw

Notice of Intent and Abbreviated Notice of Intent:

Completion of and submittal of three complete copies of the following:

- Notice of Intent Form or Abbreviated Notice of Intent Form
  Please use WPA and Bellingham Wetlands Protection Bylaw Form
  found on the Conservation Commission page of the town website
  (bellinghamma.org) unless filing under Wetlands Protection Act only
  Send appropriate copies to DEP
- Associated Stormwater Management forms if required
- Application for Permit under local bylaw
- Narrative on proposed work and mitigation as directed in Submittal Standards for small or large projects
- Abutter Notification Form
- Abutter list (certified from Board of Assessor's Office)
- Affidavit of Service-signed
- DEP Wetland transmittal form and associated town fee
- Bylaw fee form and associated fees (application fee & resource area verification fee)
- Plans as per Plan Specifications as outlined in "Section 29 Plan Requirements" of the Regulations
- Thumb Drive with pdf version of the entire filing

Request for Determination of Applicability:

Completion of and submittal of three complete copies of the following:

- RDA Form
  Please use WPA and Bellingham Wetlands Protection Bylaw Form
  found on the Conservation Commission page of the town website
  (bellinghamma.org) unless filing under Wetlands Protection Act only (Send appropriate signed copy to DEP)
- Application for Permit under local bylaw
- Narrative on proposed work and mitigation as directed in Submittal Standards for small or large projects
- Bylaw fee form and associated fees (application fee & resource area verification fee)
- Associated Plans
- Thumb Drive with pdf version of the entire filing

Request for Extension to an existing Order of Conditions:

Completion of and submittal of three copies of the following:

- Letter submittal requesting Extension including reasons for request
- Bylaw fee form and associated fee

Request for Amendment to an existing Order of Conditions:

Completion of and submittal of three complete copies of the following:

- Letter submittal requesting Amendment including reasons for request
- Application for Permit under local bylaw
- Narrative on proposed work and mitigation as directed in Submittal Standards for small or large projects
- Bylaw fee form and associated fee
- Associated Plans
- Thumb Drive with pdf version of the entire filing

Request for Certificate of Compliance:

Completion of and submittal of three copies of the following:

- Request for Certificate of Compliance Form 8A (Please use WPA and Bellingham Wetlands Protection Bylaw Form found on the Conservation Commission page of the town website (bellinghamma.org) unless filing under Wetlands Protection Act only
- As built Plans signed and stamped
- Thumb Drive with pdf version of the entire filing

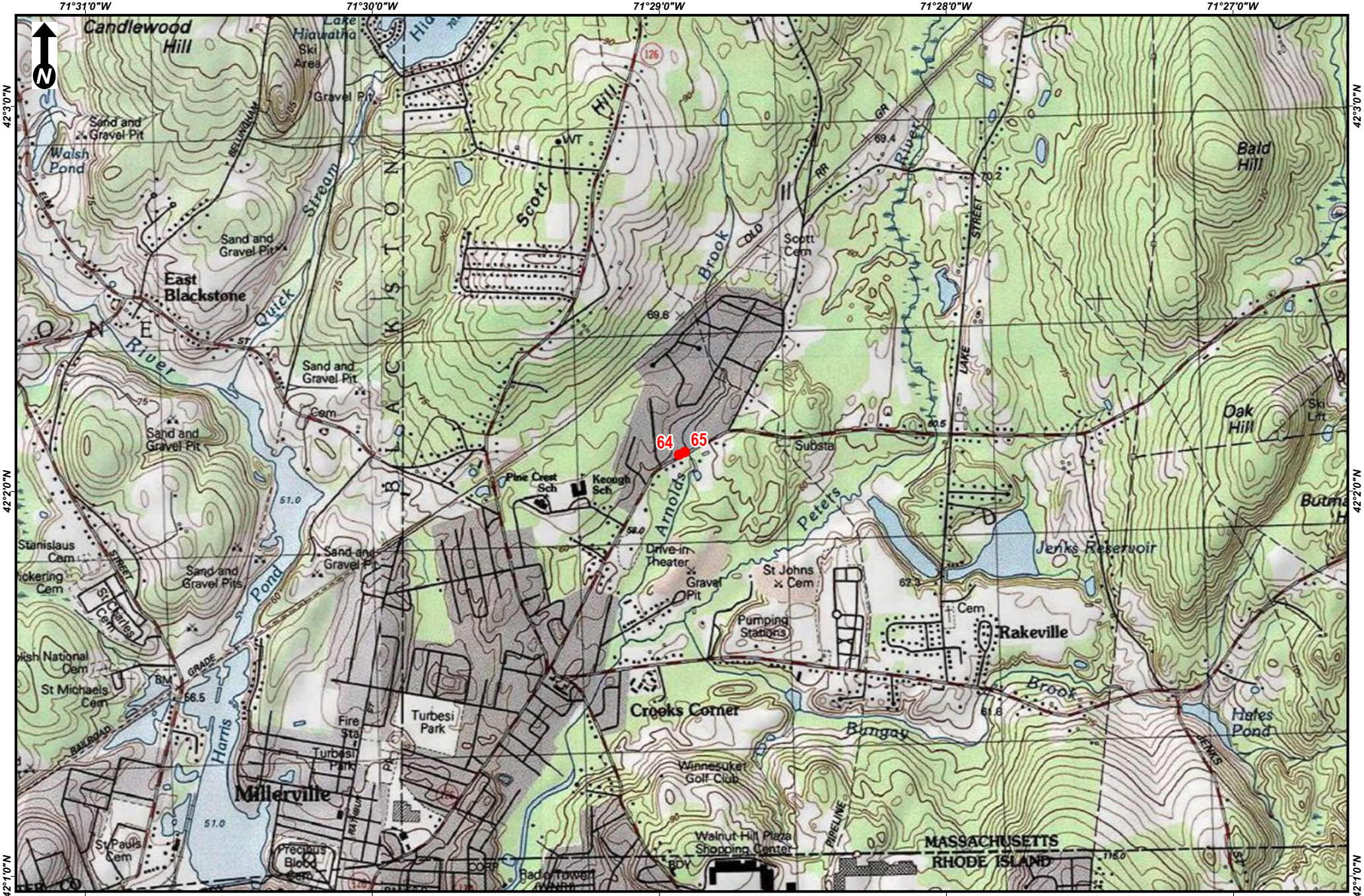
Attachment B

Pulaski Boulevard Bellingham Pole Replacement Project
Bellingham, MA
Request for Determination of Applicability

SITE LOCUS MAP
ENVIRONMENTAL RESOURCES MAP

BSC GROUP

File Location: G:\GISPrj\10229000\Output\Maps\APRX\PulaskiBlvdPoleReplacement_ER_2025\PulaskiBlvdPoleReplacement_ER_2025.aprx
Date Saved: 11/3/2025 8:48 AM



Scale:
1:24,000
1 inch =2,000 feet
0 1,000 2,000
Feet
(Page Size 8.5 x 11)

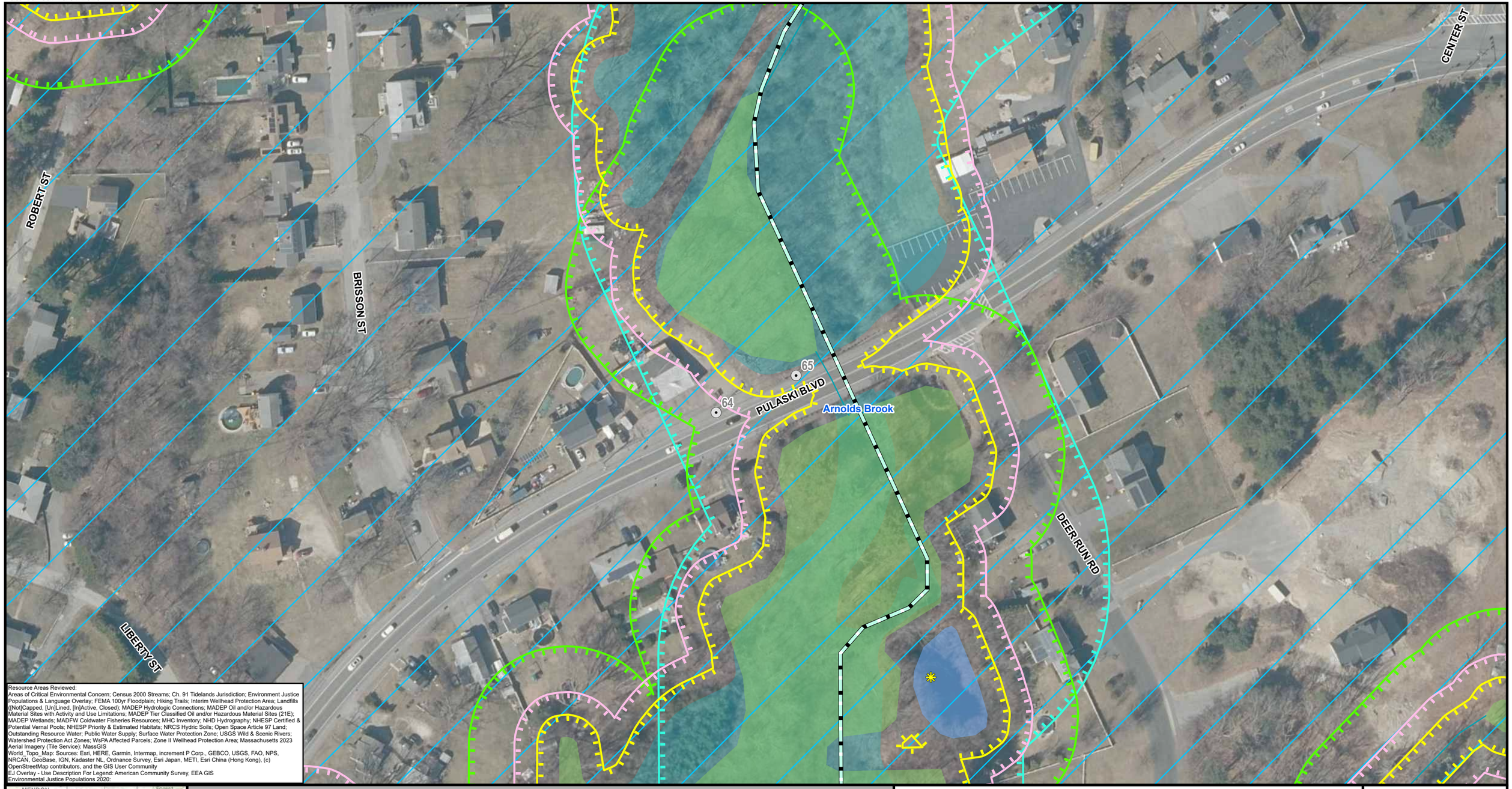
PULASKI BLVD BELLINGHAM POLE REPLACEMENT
USGS Site Location Map
Bellingham, MA

Source:
USA_Topo_Maps:
Copyright:© 2013
National Geographic

nationalgrid
BSC GROUP

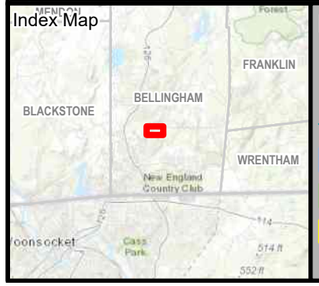
THIS DOCUMENT IS INTENDED FOR GENERAL PLANNING & INFORMATION PURPOSES ONLY. ALL MEASUREMENTS & LOCATIONS ARE APPROXIMATE.

DRAFT



Resource Areas Reviewed:
Areas of Critical Environmental Concern; Census 2000 Streams; Ch. 91 Tidelands Jurisdiction; Environment Justice Populations & Language Overlay; FEMA 100yr Floodplain; Hiking Trails; Interim Wellhead Protection Area; Landfills ([Not]Capped, [Un]Lined, [In]Active, Closed); MADEP Hydrologic Connections; MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Wetlands; MADFW Coldwater Fisheries Resources; MHC Inventory; NHD Hydrography; NHESP Certified & Potential Vernal Pools; NHESP Priority & Estimated Habitats; NRCS Hydric Soils; Open Space Article 97 Land; Outstanding Resource Water; Public Water Supply; Surface Water Protection Zone; USGS Wild & Scenic Rivers; Watershed Protection Act Zones; WsPA Affected Parcels; Zone II Wellhead Protection Area; Massachusetts 2023 Aerial Imagery (Tile Service): MassGIS
World_Topo_Map: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community
EJ Overlay - Use Description For Legend: American Community Survey, EEA GIS
Environmental Justice Populations 2020:

Index Map



Legend

- Replace Pole
- Coldwater Fisheries Resources
- MADEP Hydrologic Connections
- MADEP Open Water*
- MADEP Wetlands*
- 25ft No Disturb Buffer
- 50ft No Structure Buffer
- 100ft Buffer to Wetlands & Streams
- 200ft Riverfront Area
- FEMA 100yr Floodplain*
- Potential Vernal Pools
- Zone II Wellhead Protection Area

Indicates Layers Set to Transparency

PULASKI BLVD BELLINGHAM POLE REPLACEMENT

Environmental Resources Map

Bellingham, MA

Created for: nationalgrid

Created by: BSC GROUP

N

1 inch = 100 feet

0 50 100

Feet

(Page Size 11 x 17)

Attachment C

Pulaski Boulevard Bellingham Pole Replacement Project
Bellingham, MA
Request for Determination of Applicability

SITE PHOTOGRAPHS

BSC GROUP

Photo # 1: View of wetland near Pole 65 along Pulaski Blvd in Bellingham. The pole was confirmed to be in an upland location during a site visit on November 3, 2025. Photo taken November 2025. *Facing southwest.*

Photo # 2: Additional photo of Pole 65 along Pulaski Blvd in Bellingham. Photo taken November 2025. *Facing east.*

Photo # 3: View of structure 64 along Pulaski Blvd in Bellingham. Photo taken from Google Earth Imagery. *Facing North.*

Attachment D

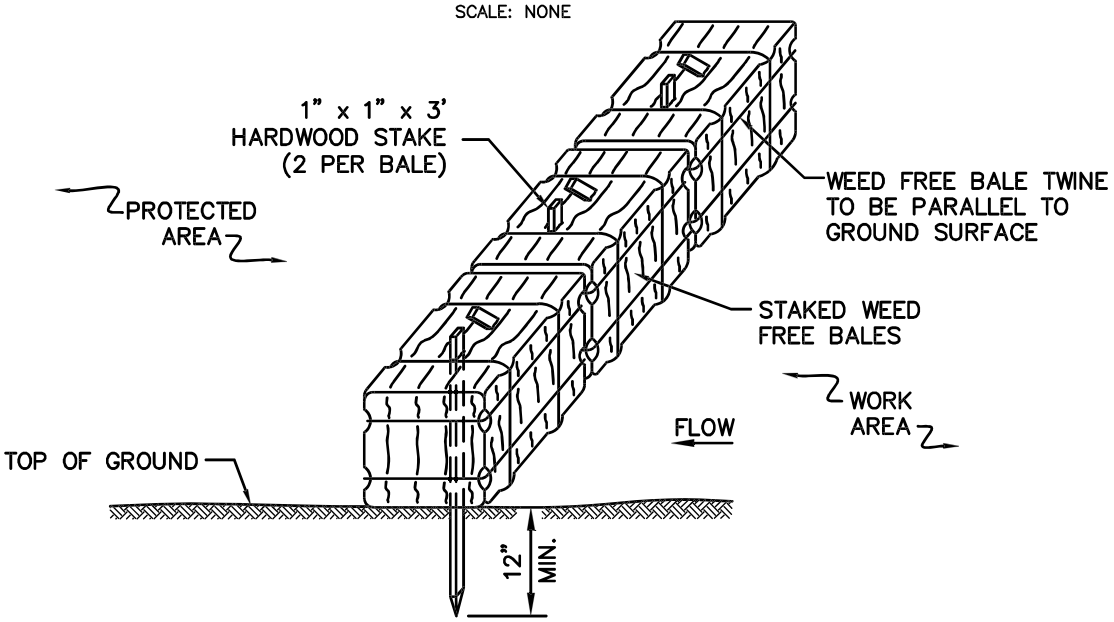
Pulaski Boulevard Bellingham Pole Replacement Project
Bellingham, MA
Request for Determination of Applicability

BEST MANAGEMENT PRACTICES

BSC GROUP

BMP DETAIL

SCALE: NONE



NOTES:

1. THE GROUND SHALL BE PREPARED TO PROVIDE COMPLETE CONTACT WITH THE BALES.

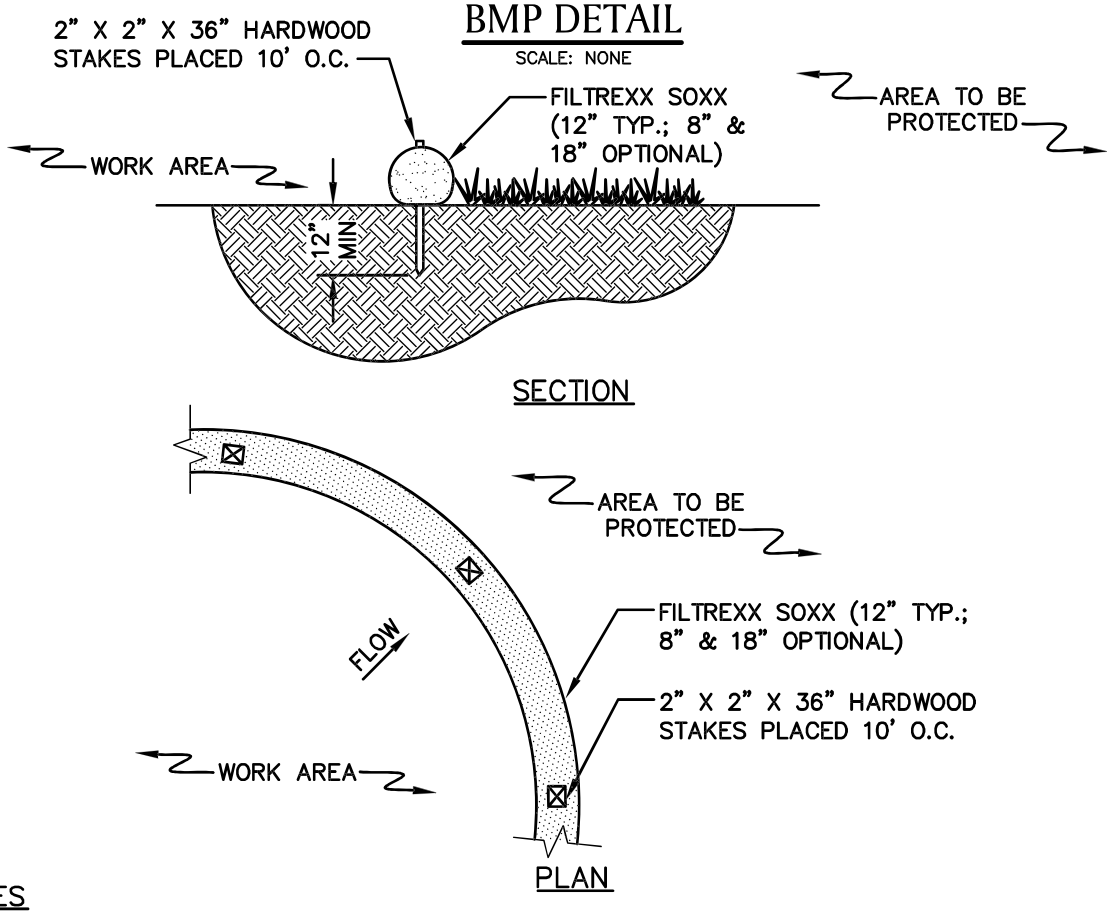
BMP PICTURE

SEC-1
WEED FREE BALE BARRIER

File: BALE_BARRIER.DWG

BMP DETAIL

SCALE: NONE



NOTES

1. PRODUCT TO BE FILTREXX SILT SOXX OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
3. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
4. MESH CONTAINMENT MATERIAL SHOULD BE KNITTED PHOTODEGRADABLE OR BIODEGRADABLE MATERIAL, WITH OPENING SIZES BETWEEN 1/8" – 3/8".
5. COMPOST MEDIA SHOULD HAVE PARTICLE SIZE WHERE 99% < 2", 50% > 1/2".
6. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.

BMP PICTURE

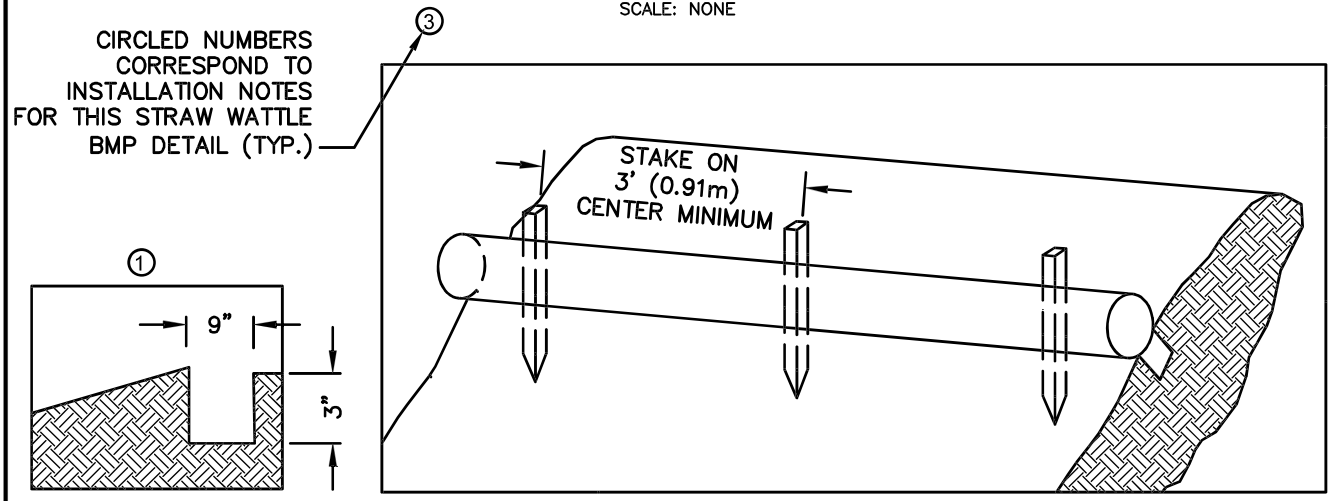
*** PICTURE AND DETAIL PROVIDED BY FILTREXX LAND IMPROVEMENT SYSTEMS**
APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES
PRINTED COPIES ARE NOT DOCUMENT CONTROLLED. FOR LATEST AUTHORIZED VERSION PLEASE REFER TO THE NATIONAL GRID ENVIRONMENTAL INFONET SITE.

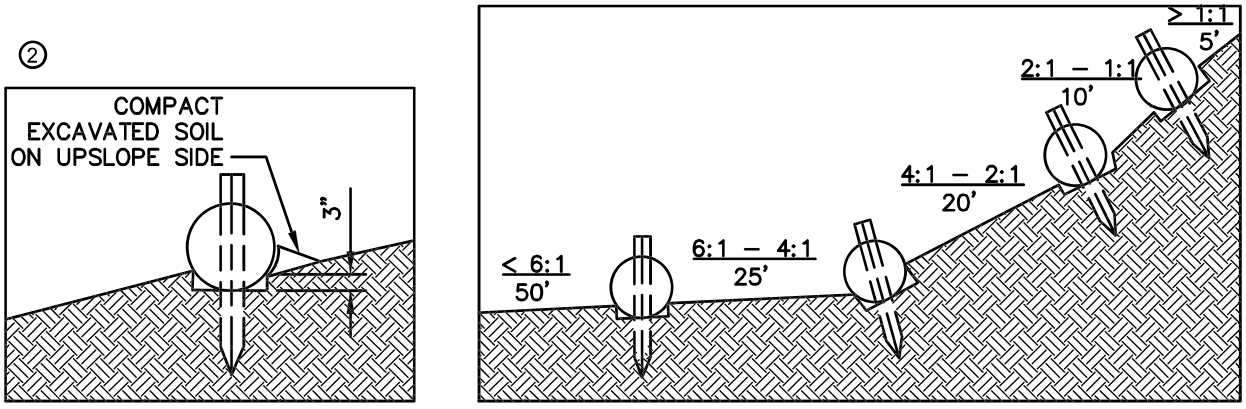
SEC-4
SILT SOXX *

File: SiltSOXX.dwg

BMP DETAIL

SCALE: NONE





TYPICAL WATTLE SPACING DETAIL

NOTES:

1. PRODUCT TO BE TENSAR NORTH AMERICAN GREEN STRAW WATTLE OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. TYPICAL WATTLE SPACING BASED ON SLOPE GRADIENT. COORDINATE SPACING AND LOCATION WITH NATIONAL GRID ENVIRONMENTAL SCIENTIST.
3. MINIMUM 12" DIAMETER WATTLES SHOULD BE USED FOR HIGHLY DISTURBED AREAS (I.E., HEAVILY USED ACCESS ROAD WITH ADJACENT WETLAND) AND MINIMUM 9–10" WATTLES SHOULD BE USED FOR LESS DISTURBED SOILS.

INSTALLATION NOTES:

1. BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2–3" DEEP X 9" WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UPSLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
3. SECURE THE WATTLE WITH 18–24" HARDWOOD STAKES EVERY 3–4' AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE LEAVING AT LEAST 2–3" OF STAKE EXTENDING ABOVE THE WATTLE. STAKES SHOULD BE DRIVEN PERPENDICULAR TO THE SLOPE FACE.

*** DETAIL AND PICTURE PROVIDED BY TENSAR NORTH AMERICAN GREEN**

SEC-5
STRAW WATTLE * (1 OF 2)

File: Straw_Wattle.dwg

BMP PICTURE

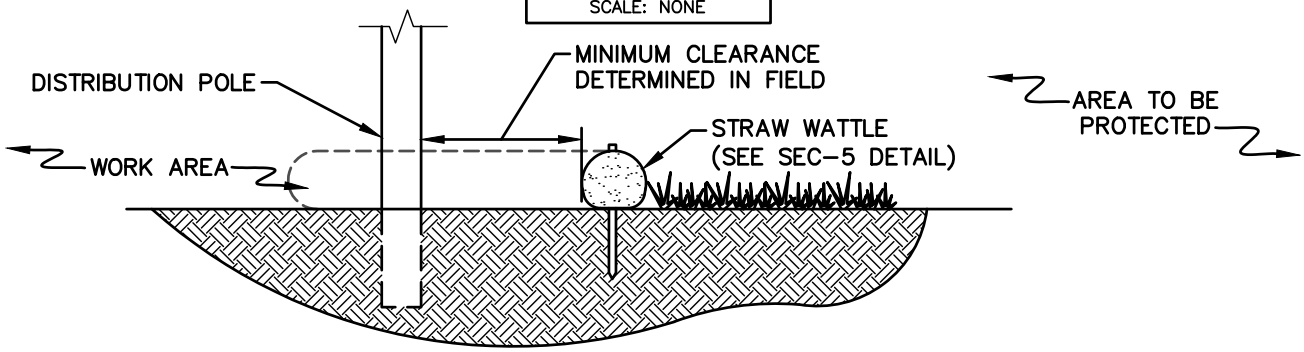
STRAW WATTLE – SHALLOW SLOPE (≤4:1)
(ALTERNATE STAKING)

ALTERNATE STAKING INSTALLATION NOTES:

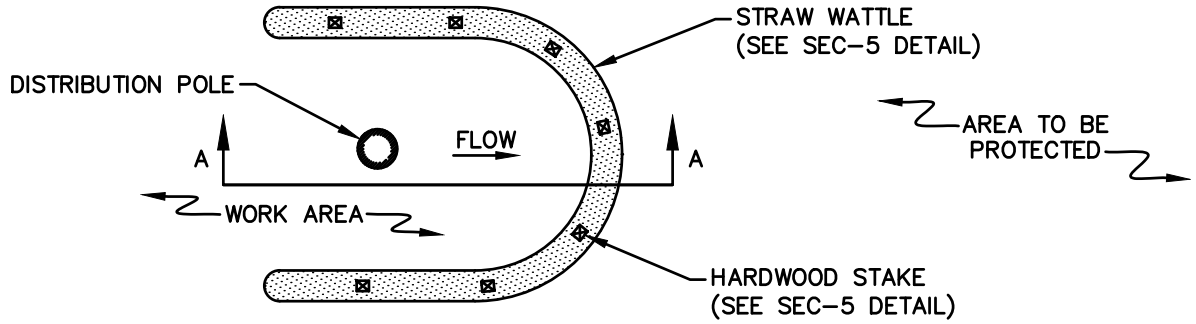
1. ON SHALLOW SLOPES (≤4:1), STRAW WATTLE MAY BE SECURED WITH 18–24" HARDWOOD STAKES DRIVEN AGAINST THE SIDES OF THE WATTLE INSTEAD OF THROUGH. STAKES SHALL ALTERNATE SIDES, AND BE SPACED 3–4' MAX.
2. TWINE SHALL BE TIED FROM STAKE TO STAKE, CRISS–CROSSING THE STRAW WATTLE. TIE TWINE TO STAKES BELOW THE HEIGHT OF THE WATTLE.

BMP DETAIL

SCALE: NONE



SECTION A–A



PLAN

NOTES

1. PRODUCT TO BE STRAW WATTLE OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST (SEE SEC–5 BMP DETAIL).
2. STRAW BALE BARRIER PER SEC–1 BMP DETAIL TO BE AN AVAILABLE ALTERNATE DEPENDING ON SITE CONDITIONS AT THE DIRECTION OF NATIONAL GRID ENVIRONMENTAL SCIENTIST (SEE FIGURE 2).
3. MINIMUM CLEARANCE BETWEEN POLE AND EROSION CONTROL TO BE DETERMINED BY CONDITIONS OF POLE INSTALLATION/REPLACEMENT WORK AND ASSOCIATED DISTURBANCE.

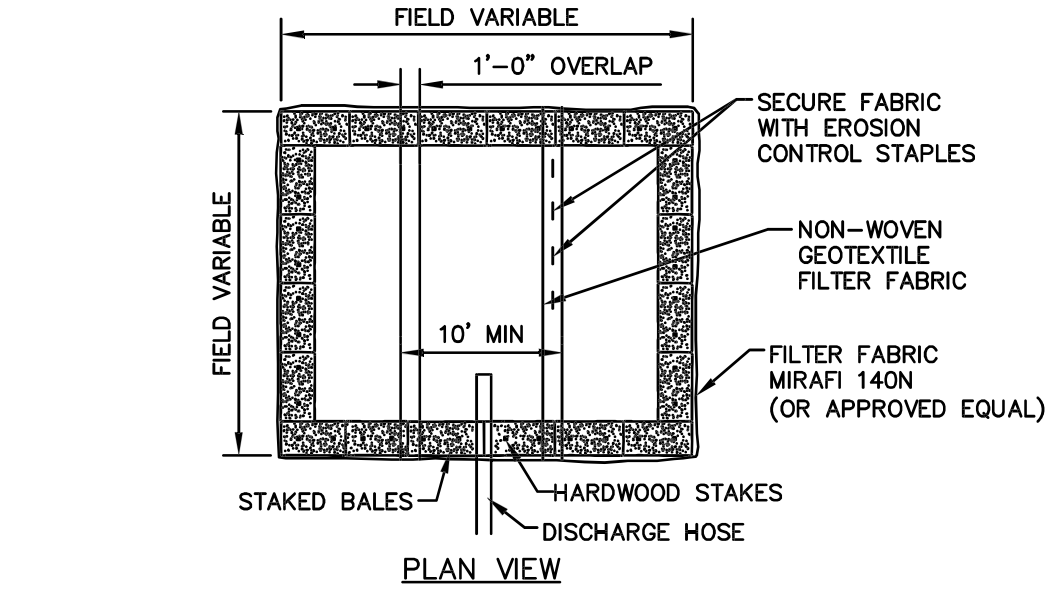
BMP PICTURE

FIGURE 1: TYP. STRAW WATTLE APPLICATION

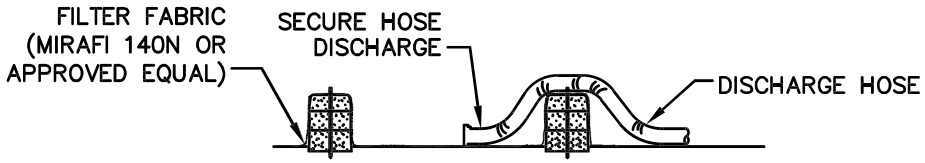
FIGURE 2: ALT. STRAW BALE APPLICATION

BMP DETAIL

SCALE: NONE



PLAN VIEW



CROSS–SECTION

NOTES:

1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS,
2. THE BASIN TO BE SIZED TO PREVENT DISCHARGE WATER FROM OVERTOPPING BASIN.
3. KEEP AS FAR FROM WETLANDS AS PRACTICAL.
4. CLEAN AND REMOVE AS SOON AS DEWATERING IS COMPLETE.

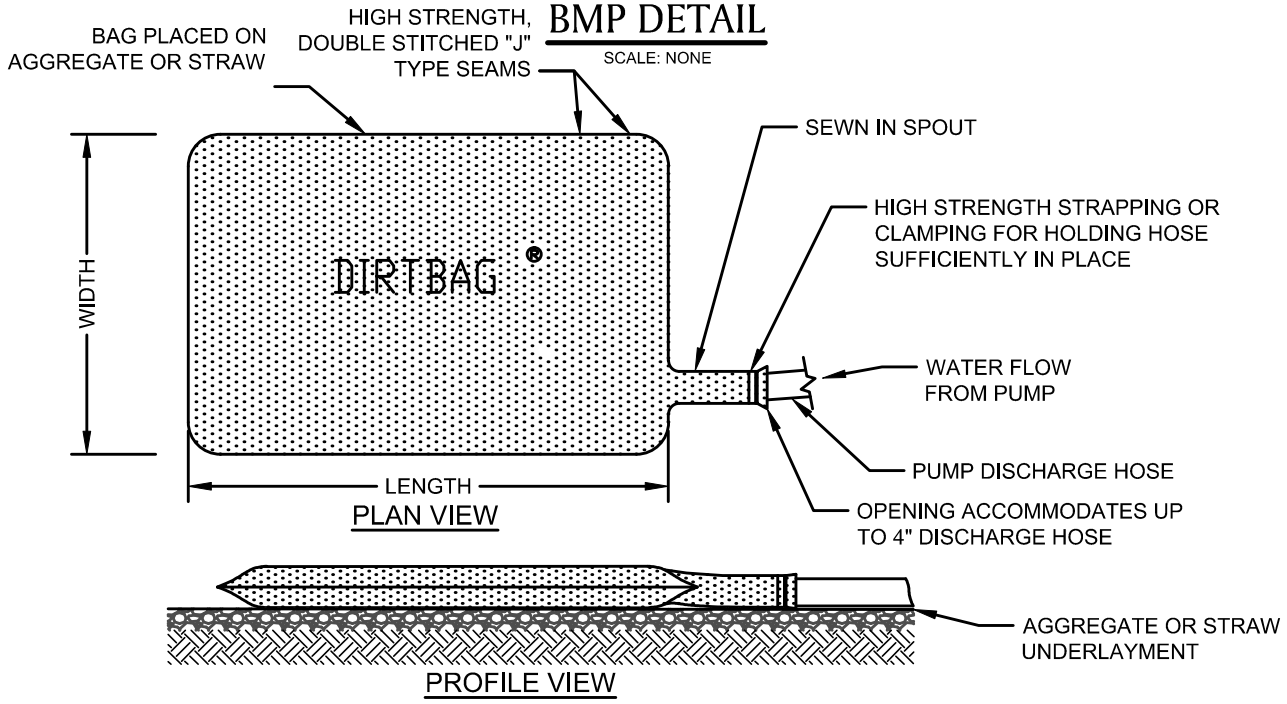
BMP PICTURE

AA-10
DEWATERING BASIN
(SMALL SCALE)

File: Dewat_Bas_Small.dwg

BMP DETAIL

SCALE: NONE



NOTE:
ONCE PUMPING COMMENCES, THE DIRT BAG SHALL BE MONITORED FREQUENTLY TO ASSURE THAT THE CONNECTIONS ARE SECURELY FASTENED AND THE RATE OF WATER DELIVERY TO THE STRUCTURE IS LOW ENOUGH TO PREVENT UNFILTERED WATER FROM FLOWING FROM THE HOSE CONNECTIONS OR BAG.

BMP PICTURE

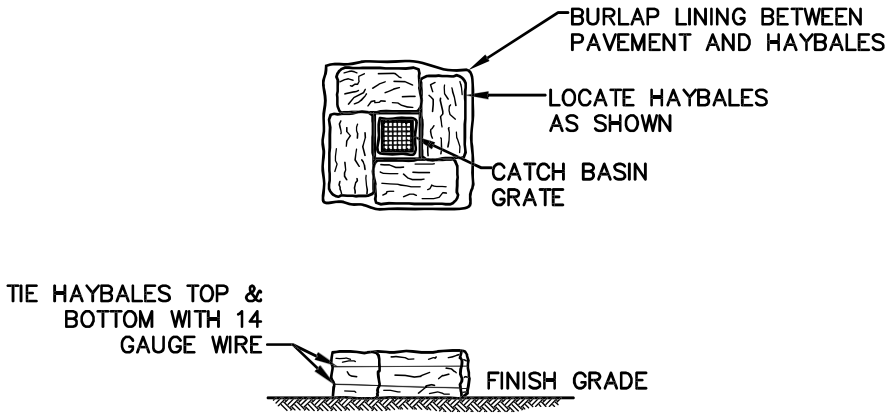
* PICTURE AND DETAIL PROVIDED BY ACF ENVIRONMENTAL

AA-12
DIRTBAG *

File: Dirtbag.dwg

BMP DETAIL

SCALE: NONE



NOTES:

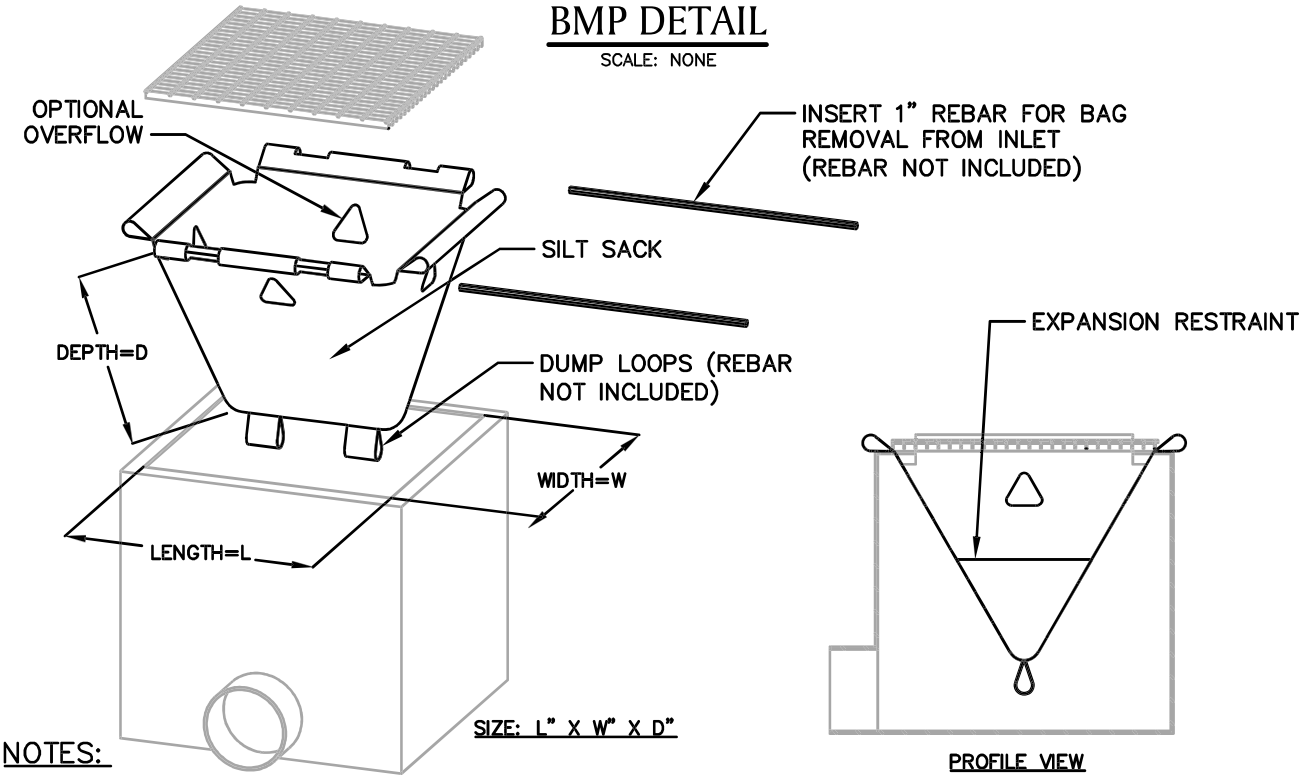
1. SURROUND STREET DRAINAGE STRUCTURE INLET WITH HAY BALES PRIOR TO CONSTRUCTION AND MAINTAIN UNTIL CONSTRUCTION IS COMPLETED. ACCUMULATED SEDIMENTS SHALL BE REMOVED.
2. HAYBALES PLACED ON PAVEMENT SHALL HAVE BURLAP PLACED BETWEEN PAVEMENT AND HAYBALE

BMP PICTURE

AA-19
CATCH BASIN INLET PROTECTION

BMP DETAIL

SCALE: NONE



NOTES:

1. PRODUCT TO BE SILT SACK OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. THE USE OF A SILT SACK OPTIONAL OVERFLOW AND OVERALL DIMENSIONS ARE TO BE COORDINATED WITH A NATIONAL GRID ENVIRONMENTAL SCIENTIST.

BMP PICTURE

* DETAIL PROVIDED BY ACF ENVIRONMENTAL

APPROVED BY: VICE PRESIDENT, ENVIRONMENTAL SERVICES

AA-20
SILT SACK *

File: SILT SACK.dwg