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NEW ENGLAND POWER COMPANY
FY25 Pole Inspection Treatment (PIT) – WS1/WS2 Lines
Request for Determination of Applicability

Worcester, MA
Conservation Commission
June 2024

Prepared for:
New England Power Electric Company
170 Data Drive
Waltham, MA 02451

BSC Project No. 89720.17

June 12, 2024

City of Worcester Conservation Commission
455 Main Street
City Hall, Room 404
Worcester, MA 01608

**Request for Determination of Applicability
PIT Maintenance Project – WS1/WS2 Transmission Line
Worcester, MA
New England Power Company (NEP)**

Dear Members of the Worcester Conservation Commission:

BSC Group, Inc. (BSC) is filing this Request for Determination of Applicability (RDA) on behalf of the New England Power Company (NEP) for maintenance activities along the WS1/WS2 overhead electrical Transmission Line in Worcester, MA (the Project), located between 25 Havana Rd on the Leicester/Worcester City Line to Access on Heard Street where the ROW crosses the railroad. The purpose of this project is to protect and reinforce the wooden structures from weathering and structural degradation, allowing NEP to provide continuous, reliable delivery of electrical service to the region. Proposed maintenance activities are located within the 100-foot Buffer Zone to Bordering Vegetated Wetlands (BVW)/Inland Bank, Bordering Land Subject to Flooding (BLSF), 25-foot Riverfront Area (RFA) and locally regulated 100-foot Stormwater Protection Zone (SPZ). Please refer to the enclosed USGS Site Location Map and Environmental Resource Map for the Project location in Attachment B.

Specifically, NEP will be conducting Pole Inspection and Treatment (PIT) maintenance activities at thirty (30) structures, of which twelve (12) structures are located within the 100-foot Buffer Zone to BVW/ Inland Bank, 25-foot RFA, BLSF, and/or the locally regulated SPZ. Maintenance work at three (3) structures within the SPZ is considered exempt in accordance with the Worcester Wetlands Protection Ordinance (Section 3(a)) and is also considered exempt under the Massachusetts Wetlands Protection Act (MGL 131-40) and regulations 310 CMR 10.02 (2)(a)2. Eleven (11) structures do not meet the criteria for exemption under the Worcester Wetlands Protection Ordinance but do meet the criteria for exemption under the Massachusetts Wetlands Protection Act. Therefore, this RDA is being submitted under the Worcester Wetlands Protection Ordinance and associated Regulations for those nine (9) non-exempt structures.

Best management practices (BMPs) will be implemented to avoid any adverse impacts to resource areas. Disturbed areas will be restored to preexisting grades, contours, and surface conditions once the work is complete. Therefore, NEP is seeking a Negative Determination under the Worcester Wetlands Protection Ordinance and regulations to allow the work to proceed as described herein.

ENVIRONMENTAL RESOURCE AREAS

BSC Group performed a desktop analysis of environmental constraints using available Mass GIS data layers and other available mapping. BSC Group Wetland Scientists delineated wetlands along this Right-of-Way (ROW) in April and May 2024. Based on the desktop analysis and field surveys, maintenance activities are proposed within the 100-foot buffer zone to BVW/ Inland Bank, 25-foot RFA, BLSF, and/or the SPZ.

No other sensitive resource areas, including Certified and Potential Vernal Pools, Outstanding Resource Waters (ORW), Zone II Wellhead Protection Area, Natural Heritage, and Endangered Species Program (NHESP) Priority and Estimated Habitat, or Areas of Critical Environmental Concern (ACEC) were identified within proximity of the Project area.

PROPOSED WORK DESCRIPTION

NEP is proposing to perform PIT maintenance activities at nine (9) structures within jurisdictional resource areas along the WS1/WS2 Transmission Line in Worcester, MA. Crews will conduct maintenance work theg ROW spanning from 25 Havana Rd on the Leicester/Worcester City Line to Access on Heard Street where the ROW crosses the railroad.

Proposed activities include the inspection of the condition of each wood pole and the removal of any wood decay below the soil to a depth of 18 inches. To inspect these structures, crews will remove soil around the immediate base of the pole with hand tools. If decay is identified, NEP will remove the decayed segments using hand tools, and then treat the pole to preserve its integrity.

AVOIDANCE, MINIMIZATION, AND MITIGATION MEASURES

NEP has established procedures that are to be followed by all employees and contractors accessing and performing construction and maintenance activities on transmission line rights-of-way (ROWs). These procedures, discussed in National Grid's *Environmental Guidance Document for ROW Access, Maintenance and Construction Best Management Practices* (EG-303NE), ensure that NEP's projects are completed in accordance with all applicable environmental laws and regulations as well as company policies and compliance objectives. Please refer to **Attachment D** for additional details on NEP's BMPs.

NEP will complete this maintenance Project using conventional overhead electric utility line construction and access techniques. Crews will access each structure along the ROW and may perform minor excavation at the base of each structure. Crews will employ the following BMPs to minimize wetland impacts:

Sediment Control

Soil excavated to conduct the inspection around the immediate base of the pole will be temporarily stored on filter fabric. Once the work is complete, the soil will be used to backfill the area. No soil will be staged overnight, as each structure is inspected and treated within a single visit. Additionally, sediment controls will be kept on hand in the event conditions warrant use of controls.

Access

Existing, historically utilized access roads within the ROW will be used to access the work areas. Disturbance to previously undisturbed areas is not anticipated. Structures located within wetlands will be accessed on foot to minimize impacts to resource areas. Within upland areas, access will be conducted via a pickup truck or UTV.

Restoration

Temporarily disturbed areas will be stabilized, and each site will be restored to pre-construction conditions to the extent practicable. All construction materials, vehicles, and non-biodegradable sediment controls will be removed from the site upon completion of work.

CONCLUSION

The proposed maintenance project is located along an existing ROW and the proposed activities will not result in changes to the existing infrastructure. Proposed ground disturbance required to perform the inspection and repair work is temporary in nature; NEP is not proposing permanent impacts to wetland resource areas. NEP will implement BMPs, as appropriate, to avoid impacts to resource areas. Crews will restore ground disturbance to meet existing conditions to the extent practicable following the completion of maintenance activities at each pole location. No change in ground surface conditions is proposed.

Since the Project is not expected to adversely impact resource areas, NEP is seeking a Negative Determination under the local ordinance and regulations from the Worcester Conservation Commission to allow the Project to proceed.

Enclosed, please find the electronic copy of the Request for Determination of Applicability and attachments. We respectfully request that this matter be heard at the next scheduled Conservation Commission hearing. The work may be scheduled to begin as soon as permissible.

If you have any questions regarding the enclosed information, please contact me at (617) 896-4454 or Kevin O'Brion of NEP at (781) 663-3137. Thank you for your consideration in this matter.

Sincerely,



BSC Group, Inc.

Hana Isihara
Project Manager

cc: Kevin O'Brion, NEP

Table of Contents

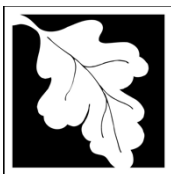
FY25 PIT – WS1/WS2 Line Project
Worcester, Massachusetts
Request for Determination of Applicability

ATTACHMENT A	WPA FORM 1
ATTACHMENT B	SITE LOCUS MAP ENVIRONMENTAL RESOURCES MAP
ATTACHMENT C	SITE PHOTOGRAPHS
ATTACHMENT D	NATIONAL GRID'S BEST MANAGEMENT PRACTICES

Attachment A

FY25 PIT – WS1/WS2 Line Project
Worcester, Massachusetts
Request for Determination of Applicability

WPA FORM 1



Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

Worcester
Municipality

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:

New England Power Company

First Name _____ Last Name _____

170 Data Drive

Address _____

Waltham

MA _____ 02451

City/Town _____

State _____ Zip Code _____

781-663-3137

kevin.obrion@nationalgrid.com

Phone Number _____

Email Address _____

2. Property Owner (if different from Applicant):

NEP has easement rights

First Name _____ Last Name _____

Address _____

City/Town _____

State _____ Zip Code _____

Phone Number _____

Email Address (if known) _____

3. Representative (if any)

Hana

Isihara

First Name _____ Last Name _____

BSC Group, Inc.

Company Name _____

One Mercantile

Address _____

Worcester

MA _____ 01608

City/Town _____

State _____ Zip Code _____

617-896-4454

hisihara@bscgroup.com

Phone Number _____

Email Address (if known) _____

B. Project Description

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

Multiple, see mapping

Worcester

Street Address _____

City/Town _____

Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)

Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)

Assessors' Map Number _____

Assessors' Lot/Parcel Number _____

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

NEP is proposing to conduct Pole Inspection and Treatment (PIT) maintenance activities at 5 structures along the WS1/WS2 Transmission Line ROW located in Worcester, MA.

c. Plan and/or Map Reference(s): (use additional paper if necessary)

Environmental Resources Map

6/12/24

Title _____

Date _____

USGS Site Locus Map

6/12/24

Title _____

Date _____

[How to find Latitude and Longitude](#)

[and how to convert to decimal degrees](#)



B. Project Description (cont.)

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

NEP is proposing to conduct PIT maintenance activities at 11 structures within BVW, 100-foot Buffer Zone to BVW/ Inland Bank, and/or 25-foot RFA along the WS1/WS2 Transmission Lines in Worcester, MA. Specifically the proposed work includes the inspection of the condition of each wood pole and the removal of any wood decay below the soil to a depth of 18 inches. Soil is removed around the immediate base of the pole with hand tools. If decay is identified, it is removed using hand tools, and the pole is treated to preserve its integrity.

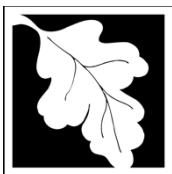
- b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

10.02 (2)(a)2

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.)
-



C. Determinations

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

- a. whether the **area** depicted on plan(s) and/or map(s) referenced above 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 above are accurately delineated.
- c. whether the **Activities** depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.
- d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any **municipal wetlands' ordinance** or **bylaw** of:

Worcester

Name of Municipality

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

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.

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

6/12/24

Date

Signature of Representative (if any)

6/12/24

Date

Attachment B

FY25 PIT – WS1/WS2 Line Project
Worcester, Massachusetts
Request for Determination of Applicability

SITE LOCUS MAP
ENVIRONMENTAL RESOURCES MAP

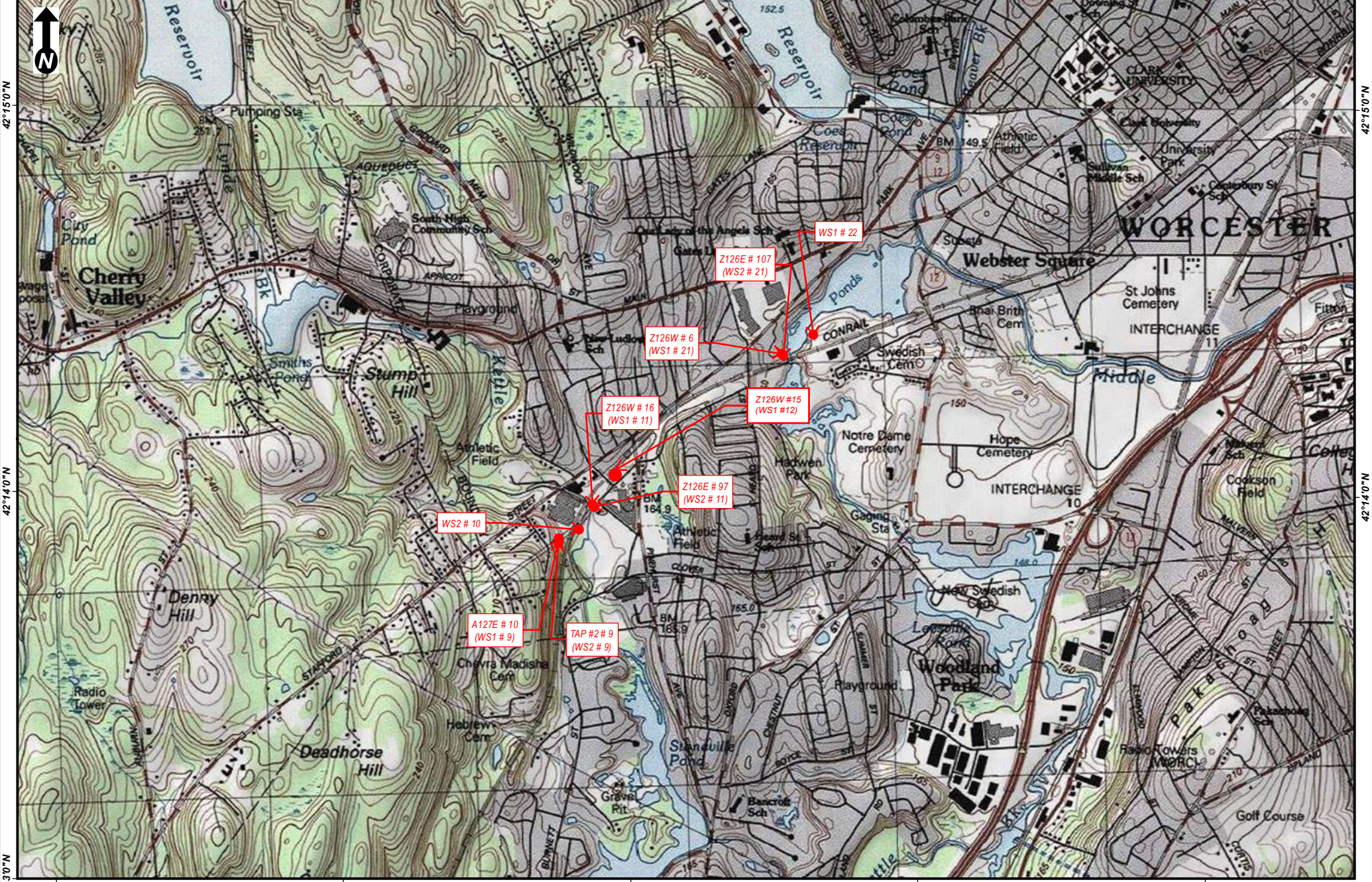
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71°52'0"W

71°51'0"W

71°50'0"W

71°49'0"W



42°14'0"N

42°13'0"N

71°53'0"W

71°52'0"W

71°51'0"W

71°50'0"W

71°49'0"W

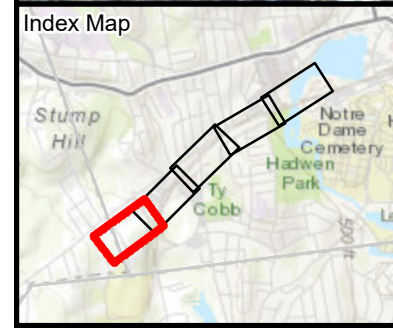
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FY25 PIT PROGRAM - WS1 & WS2 LINES
USGS Site Location Map
Worcester, MA

Source: Copyright:©
2013 National
Geographic Society, i-
cubed
nationalgrid
BSC GROUP



Resource Areas Reviewed:
 MADEP Tier Classified Oil and/or Hazardous Material Sites (21E); MADEP Oil and/or Hazardous Material Sites with Activity and Use Limitations; Certified Vernal Pools; Potential Vernal Pools; NHESP Priority Habitats; NHESP Estimated Habitats; NHESP Restricted Data; Wild & Scenic Rivers; NHD Hydrography; Census 2000 Streams; MADEP Hydrologic Connections; MADEP Wetlands; FEMA 100yr Floodplain; NRCS Hydric Soils; Public Water Supply; Zone II Wellhead Protection Area; Interim Wellhead Protection Area; Surface Water Protection Zone; Outstanding Resource Water; Areas of Critical Environmental Concern; Watershed Protection Act Zones; Ch. 91 Tidelands Jurisdiction; Article 97 Land; Landfills ([Not]Capped, [Un]Lined, [In]Active, Closed)



Legend

PIT Work	Perennial Stream	Zone II Wellhead Protection Area	Town Boundary
Existing Structure	MADEP Hydrologic Connections	MADEP 21E Site	MADEP AUL Site
Existing Overhead Line	MADEP Wetlands*	Access Gate	Culvert
Potential Access Road	MADEP Open Water*	Fenceline	Railroad
Alternate Access Road	25ft Riverfront Area	Inactive Landfill	
Field Delineated Bank	100ft Buffer to Wetlands & Streams		
Field Delineated Stream Area*	FEMA 100yr Floodplain*		
Field Delineated Wetland Line	Catch Basin		
Field Delineated Wetlands*	100ft Stormwater Protection Zone		

1 inch = 100 feet
 0 50 100
 Feet
 *Indicates Layers Set to Transparency

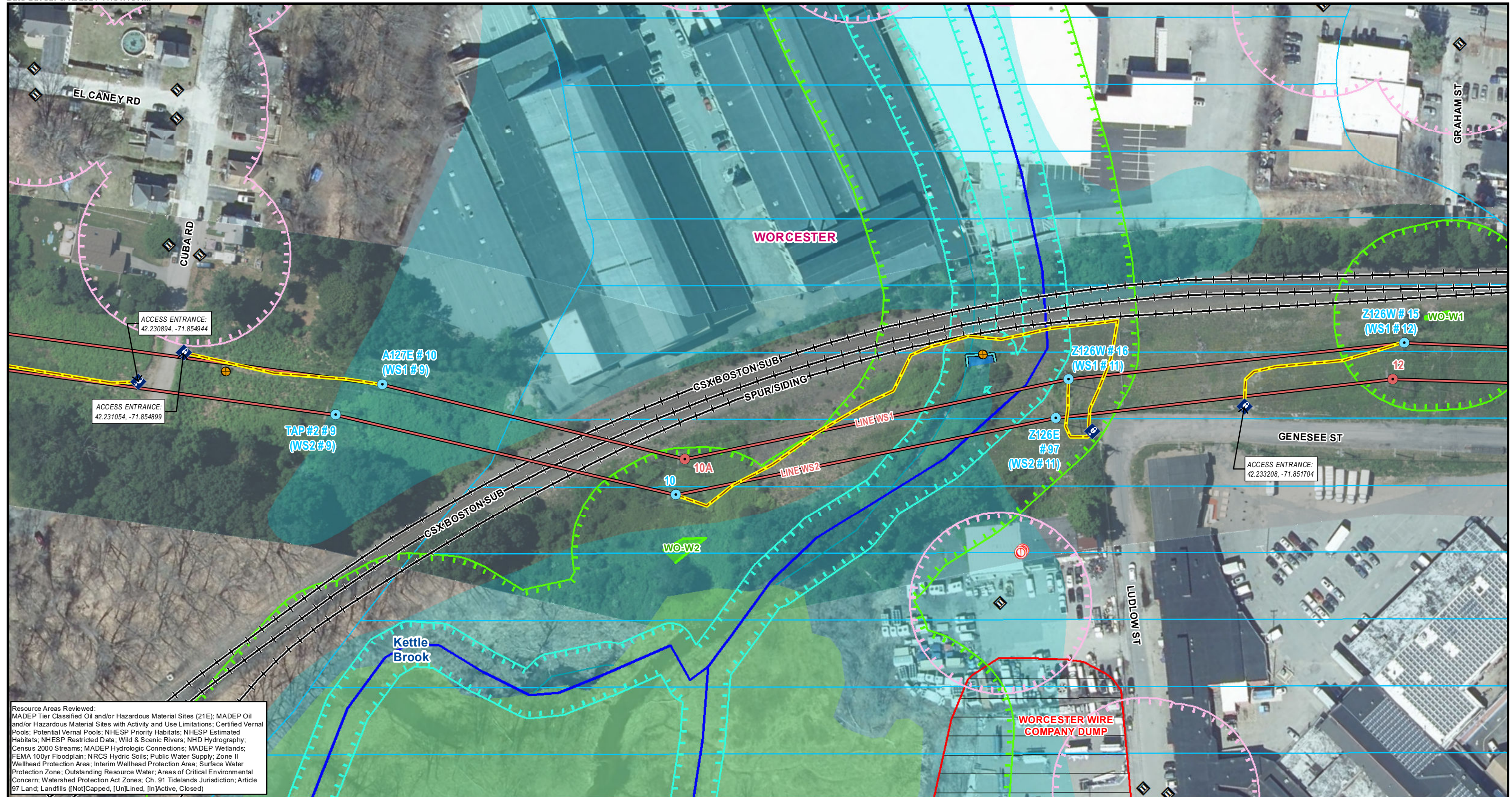
FY25 PIT - WS1/WS2 LINES

Environmental Resources Map

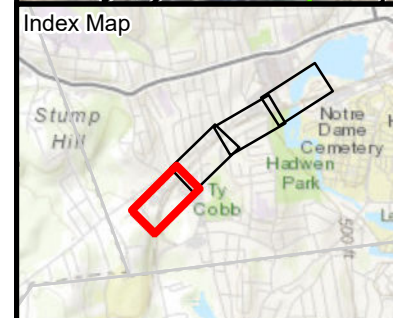
Leicester & Worcester, MA
 Page 1 of 5

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





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Legend	
PIT Work	Perennial Stream
Existing Structure	MADEP Hydrologic Connections
Existing Overhead Line	MADEP Wetlands*
Potential Access Road	MADEP Open Water*
Alternate Access Road	25ft Riverfront Area
Field Delineated Bank	100ft Buffer to Wetlands & Streams
Field Delineated Stream Area*	FEMA 100yr Floodplain*
Field Delineated Wetland Line	Catch Basin
Field Delineated Wetlands*	100ft Stormwater Protection Zone
Zone II Wellhead Protection Area	Town Boundary
MADEP 21E Site	MADEP AUL Site
Access Gate	Culvert
Fenceline	Railroad
Inactive Landfill	

FY25 PIT - WS1/WS2 LINES

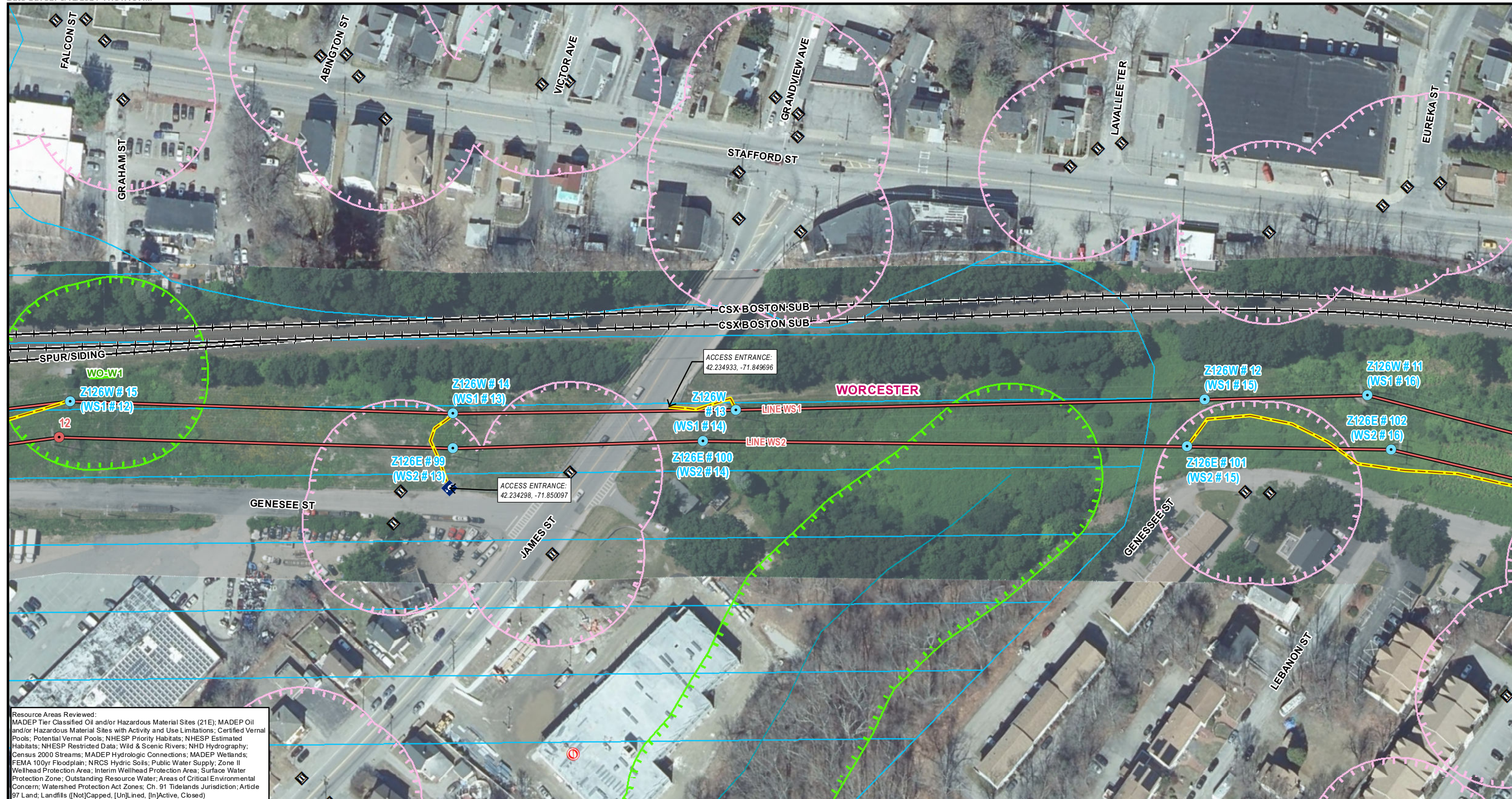
Environmental Resources Map

Worcester, MA
Page 2 of 5

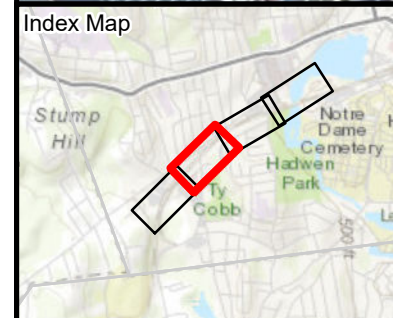
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Feet

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Legend	
	PIT Work
	Existing Structure
	Existing Overhead Line
	Potential Access Road
	Alternate Access Road
	Field Delineated Bank
	Field Delineated Stream Area*
	Field Delineated Wetland Line
	Field Delineated Wetlands*
	Perennial Stream
	MADEP Hydrologic Connections
	MADEP Wetlands*
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	25ft Riverfront Area
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	FEMA 100yr Floodplain*
	Catch Basin
	100ft Stormwater Protection Zone
	Zone II Wellhead Protection Area
	MADEP 21E Site
	MADEP AUL Site
	Access Gate
	Culvert
	Fenceline
	Railroad
	Inactive Landfill
	Town Boundary

FY25 PIT - WS1/WS2 LINES

Environmental Resources Map

Worcester, MA
Page 3 of 5

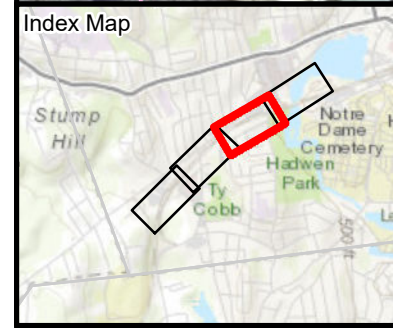
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Feet

**Indicates Layers Set to Transparency*

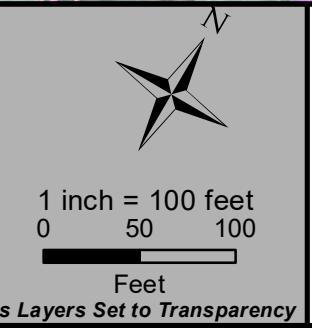
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



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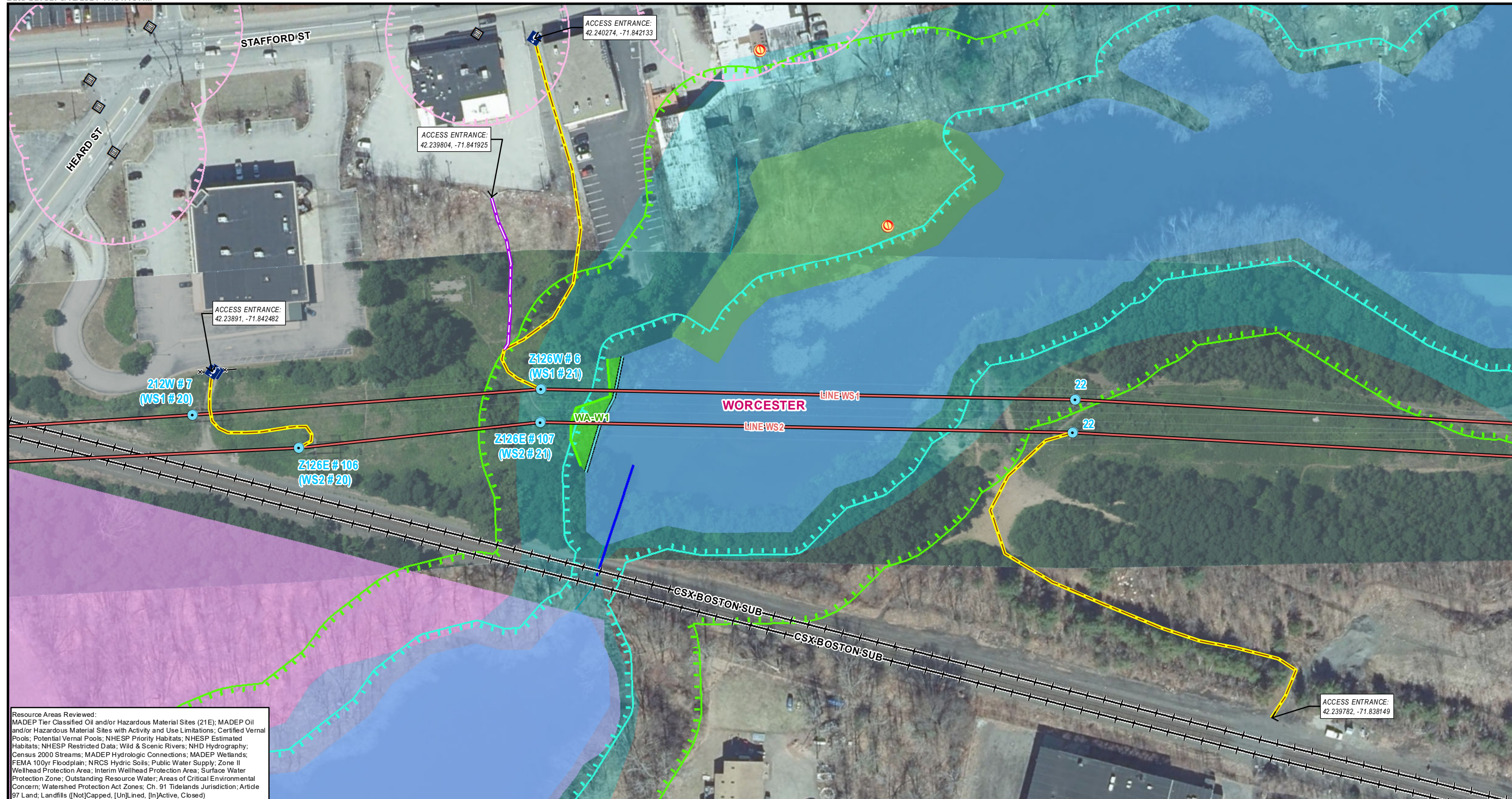


Legend	
PIT Work	Perennial Stream
Existing Structure	MADEP Hydrologic Connections
Existing Overhead Line	MADEP Wetlands*
Potential Access Road	MADEP Open Water*
Alternate Access Road	25ft Riverfront Area
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Field Delineated Stream Area*	FEMA 100yr Floodplain*
Field Delineated Wetland Line	Catch Basin
Field Delineated Wetlands*	100ft Stormwater Protection Zone
Zone II Wellhead Protection Area	MADEP 21E Site
Town Boundary	MADEP AUL Site
Access Gate	Culvert
Fenceline	Railroad
Inactive Landfill	

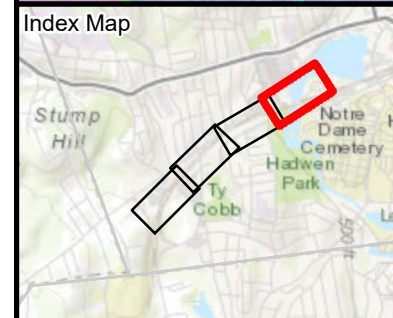


FY25 PIT - WS1/WS2 LINES
Environmental Resources Map
 Worcester, MA
 Page 4 of 5

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



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Legend	
● PIT Work	— Perennial Stream
● Existing Structure	— MADEP Hydrologic Connections
— Existing Overhead Line	■ MADEP Wetlands*
— Potential Access Road	■ MADEP Open Water*
— Alternate Access Road	■ 25ft Riverfront Area
— Field Delineated Bank	■ 100ft Buffer to Wetlands & Streams
■ Field Delineated Stream Area*	■ FEMA 100yr Floodplain*
■ Field Delineated Wetland Line	■ Catch Basin
■ Field Delineated Wetlands*	■ 100ft Stormwater Protection Zone
■ Zone II Wellhead Protection Area	■ Town Boundary
○ MADEP 21E Site	○ MADEP AUL Site
○ MADEP AUL Site	⊠ Access Gate
⊠ Access Gate	⊠ Culvert
⊠ Culvert	⊠ Fenceline
⊠ Fenceline	⊠ Railroad
⊠ Railroad	⊠ Inactive Landfill
⊠ Inactive Landfill	

FY25 PIT - WS1/WS2 LINES

Environmental Resources Map

Worcester, MA
Page 5 of 5

1 inch = 100 feet
0 50 100
Feet

**Indicates Layers Set to Transparency*

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

Attachment C

FY25 PIT – WS1/WS2 Line Project
Worcester, Massachusetts
Request for Determination of Applicability

SITE PHOTOGRAPHS



Photo #1: View of Pole 9 (A127E #10) on the WS1 Line, located within the Bordering Lands Subject to Flooding (BLSF). Facing East



Photo #2: View of Pole 11 (Z126W #16) on the WS1 Line located within the 100-ft Buffer Zone to Bordering Vegetated Wetlands (BVW). Facing south.



Photo #3: View of Pole 12 (Z126W #15) on the WS1 Line, located within the 100-ft Buffer Zone to BVW. *Facing North*



Photo #4: View of Pole 21 (Z126W #6) on the WS1 Line located within the 100-ft Buffer Zone to BVW and BLSF. *Facing northwest.*



Photo #5: View of Pole 22 on the WS1 Line, located within the 100-ft Buffer Zone to BVW. *Facing North*



Photo #6: Pole 9 (Tap 2 #9) on the WS2 Line, located within BLSF. *Facing northeast*



Photo #7: Pole 10 on the WS2 Line, located within 100-ft Buffer Zone to BVW. *Facing east.*



Photo #8: View of Pole 11 (Z126E #97) on the WS2 Line located within the 100-ft Buffer Zone to BVW. *Facing west.*



Photo #9: View of Pole 21 (Z126E #107) on the WS2 Line, located within the 100-ft Buffer Zone to BVW and BLSF. *Facing southeast.*

Attachment D

FY25 PIT – WS1/WS2 Line Project
Worcester, Massachusetts
Request for Determination of Applicability

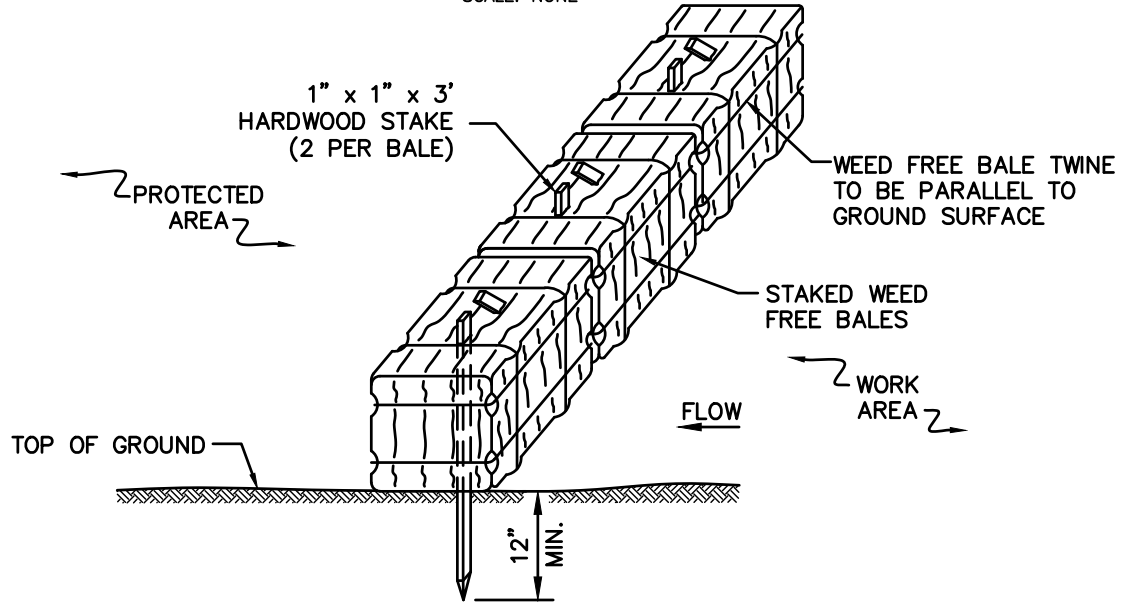
NATIONAL GRID'S BEST MANAGEMENT PRACTICES

SUBJECT
Access, Maintenance and Construction
Best Management Practices

Reference
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

SCALE: NONE



NOTES:

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

BMP PICTURE



File: BALE_BARRIER.DWG

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-1
WEED FREE BALE BARRIER

SUBJECT

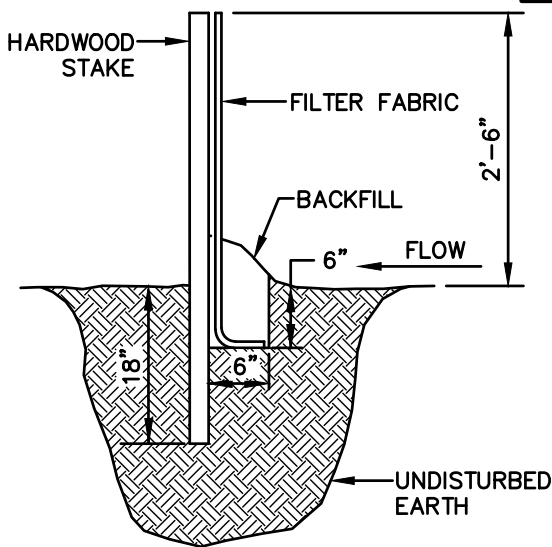
Access, Maintenance and Construction
Best Management Practices

Reference

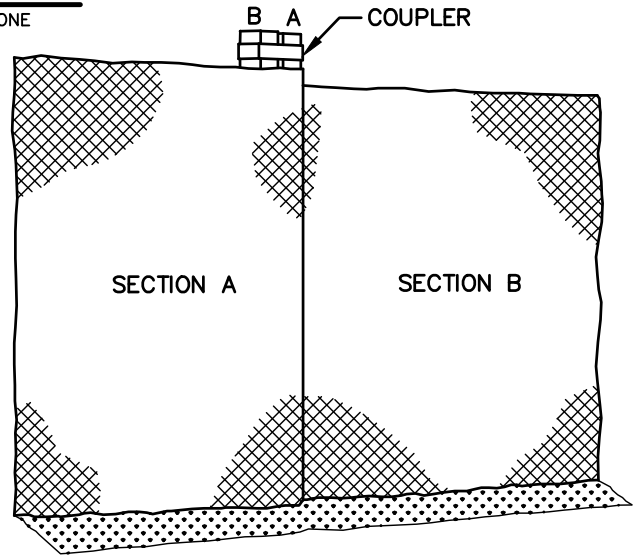
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

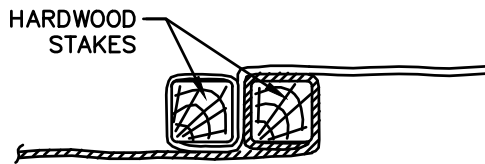
SCALE: NONE



PROFILE



SECTION



PLAN

BMP PICTURE



File: Sediment_Fence.dwg

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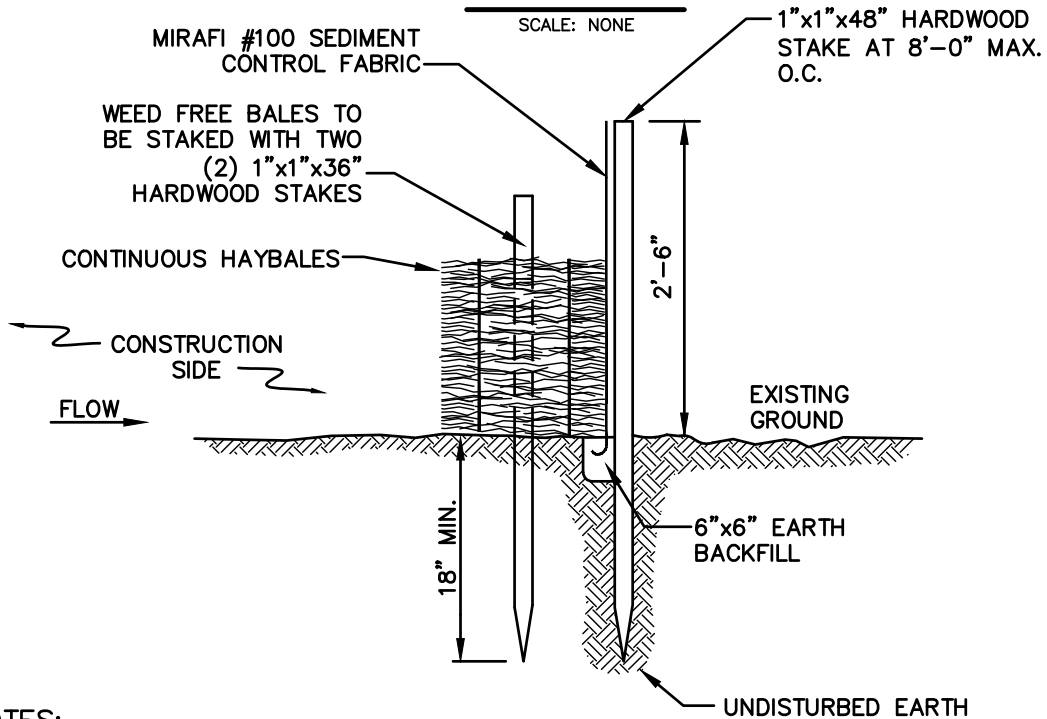
SEC-2
SEDIMENT CONTROL FENCE

SUBJECT
Access, Maintenance and Construction
Best Management Practices

Reference
EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP DETAIL

SCALE: NONE



NOTES:

1. BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY TWO (2) 1"x1"x36" HARDWOOD STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. BALES SHALL BE REMOVED AND REPLACED WHEN THEY BECOME FILLED WITH SEDIMENT AND BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
5. BALES SHALL BE REMOVED WHEN THE EMBANKMENTS STABILIZE.
6. BALES TO BE TWINE BOUND.

BMP PICTURE



File: Silt_Fence_&_Barrier.dwg

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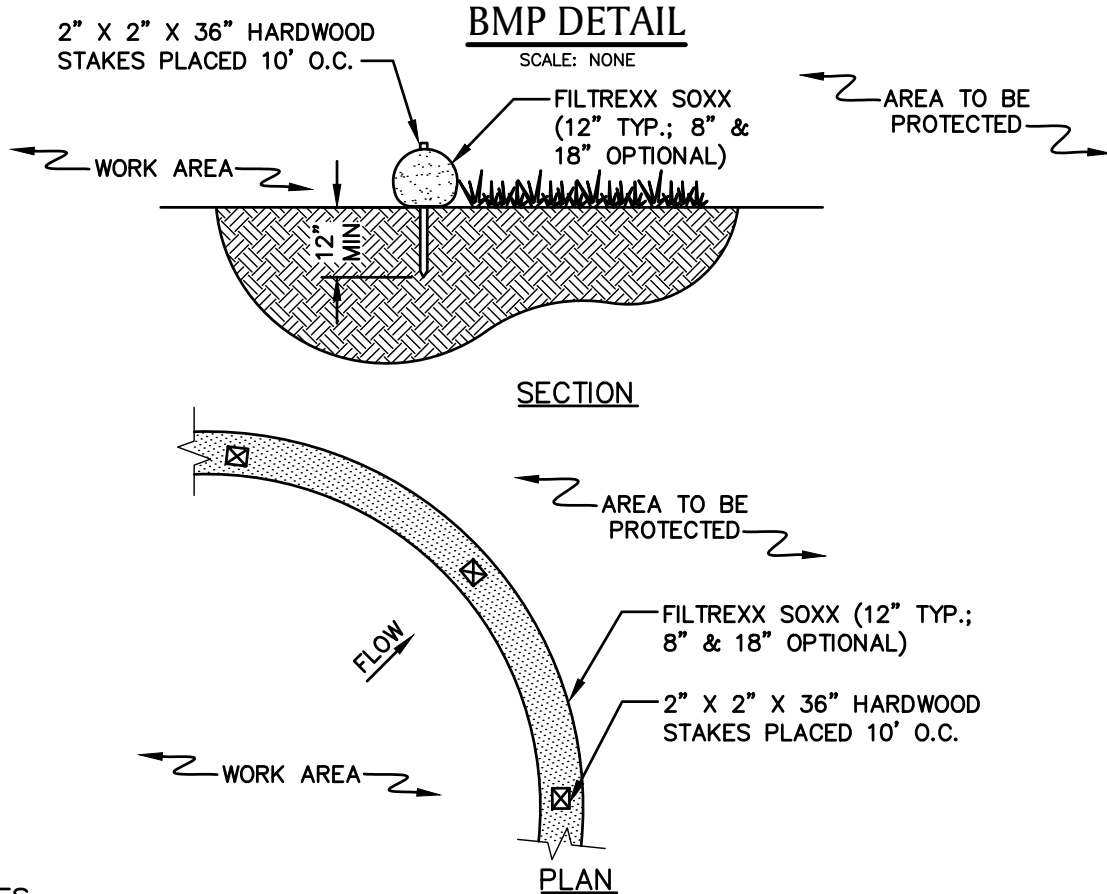
SEC-3
SILT FENCE /
WEED FREE BARRIER

SUBJECT

Access, Maintenance and Construction
Best Management Practices

Reference

EP No. 3 - Natural Resource
Protection (Chapter 6)



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
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SEC-4
SILT SOXX *

SUBJECT

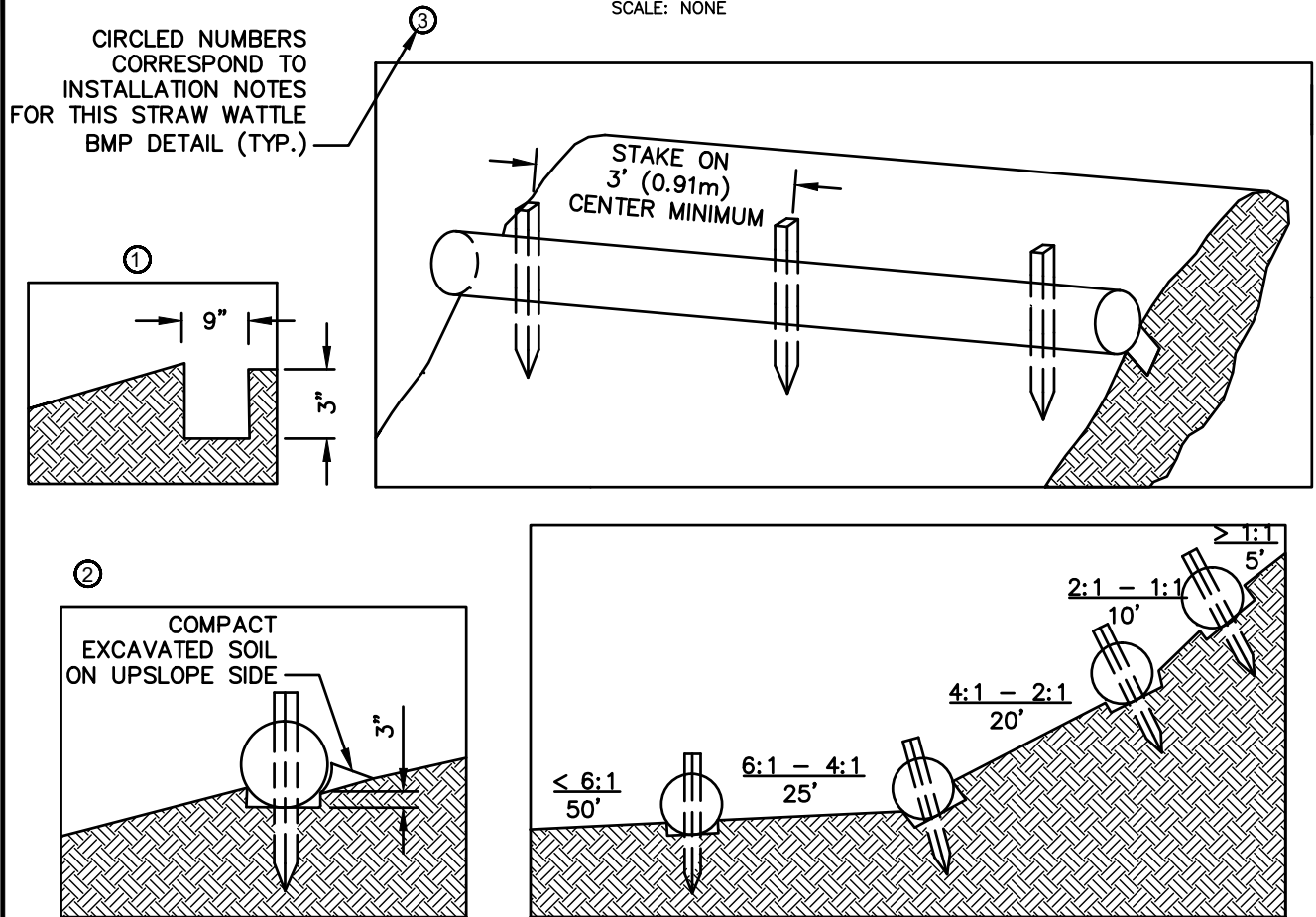
Access, Maintenance and Construction
Best Management Practices

Reference

EP No. 3 - Natural Resource
Protection (Chapter 6)

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.

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SEC-5
STRAW WATTLE * (1 OF 2)

SUBJECT

Access, Maintenance and Construction
Best Management Practices

Reference

EP No. 3 - Natural Resource
Protection (Chapter 6)

BMP PICTURE



**STRAW WATTLE – SHALLOW SLOPE ($\leq 4:1$)
(ALTERNATE STAKING)**

ALTERNATE STAKING INSTALLATION NOTES:

1. ON SHALLOW SLOPES ($\leq 4:1$), 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.

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**SEC-5
STRAW WATTLE * (2 OF 2)**