

LINE 5 WISCONSIN SEGMENT RELOCATION PROJECT

ASHLAND, IRON, AND BAYFIELD COUNTIES, WISCONSIN

EROSION & SEDIMENT CONTROL PLAN (ESCP)

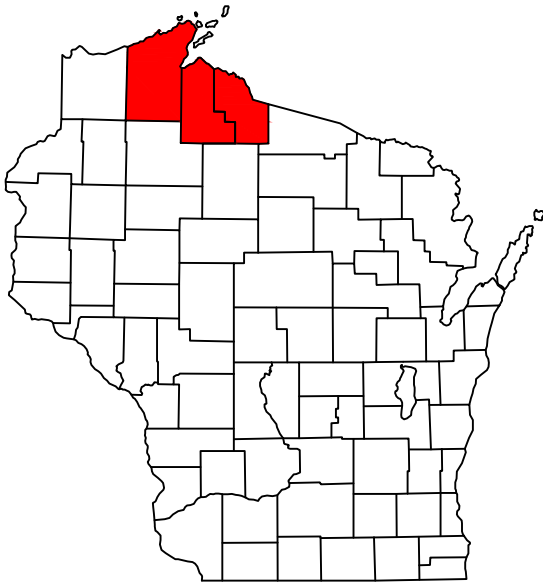
PROJECT CONTACTS



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WISCONSIN

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THE PLANS HAVE BEEN CREATED ON 11"X17" SHEETS FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

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SHEET INDEX

●	2	01/04/2023	SHEET A1 - COVER SHEET
●	1	05/20/2022	SHEET A2 - INDEX MAP - MAINLINE
●	2	12/30/2022	SHEET A3 - INDEX MAP - SITE SPECIFIC
●	1	12/30/2022	SHEET A4 - INDEX MAP - VALVE SITE SPECIFIC
●	1	12/30/2022	SHEET A5 - INDEX MAP - STREAM CROSSING PROFILES
●	2	12/30/2022	SHEET A6- ESCP NOTES
●	2	12/30/2022	SHEET A7 - ESCP MAP NOTES AND CROSS REFERENCE TABLE
●	1	05/20/2022	SHEETS A8-A19- ESCP DETAILS
●	2	01/04/2023	SHEETS B1-B116 - ESCP MAINLINE
●	2	01/04/2023	SHEETS C1-C45 - ESCP SITE SPECIFIC AERIAL PLANS
●	2	01/04/2023	SHEETS D1-D45 - ESCP SITE SPECIFIC TOPO PLANS
●	1	12/30/2022	SHEETS E1-E10 - VALVE SITE SPECIFIC PLANS
●	1	12/30/2022	SHEETS F1-F20 - STREAM CROSSING PROFILE DRAWINGS
DRAWING INDEX LEGEND			
FILLED CIRCLE INDICATES DRAWING INCLUDED WITHIN THIS ISSUE			
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●	-	X/XX/20XX	SHEET X - SHEET TITLE

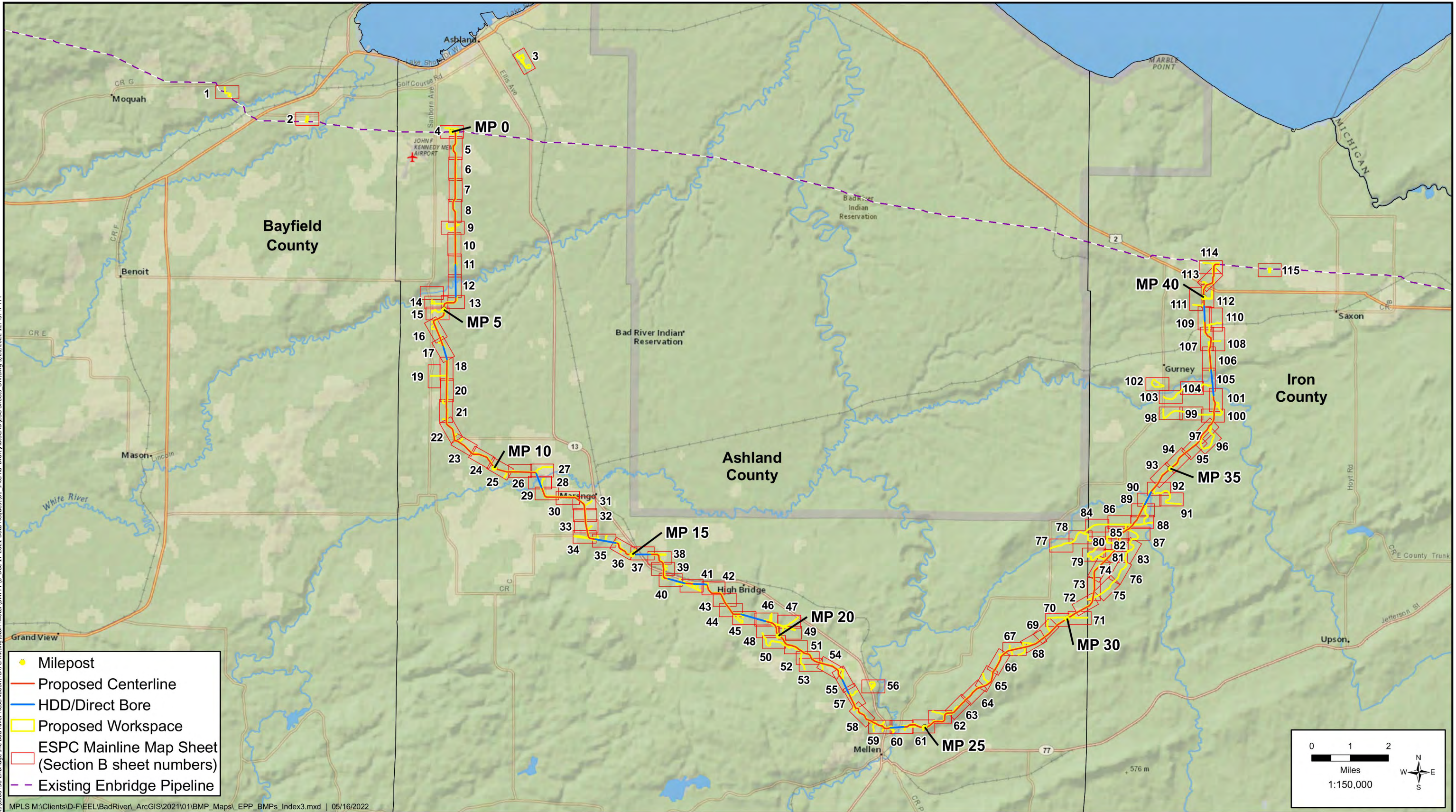
USGS LOCATION MAP





SITE LOCATION MAP



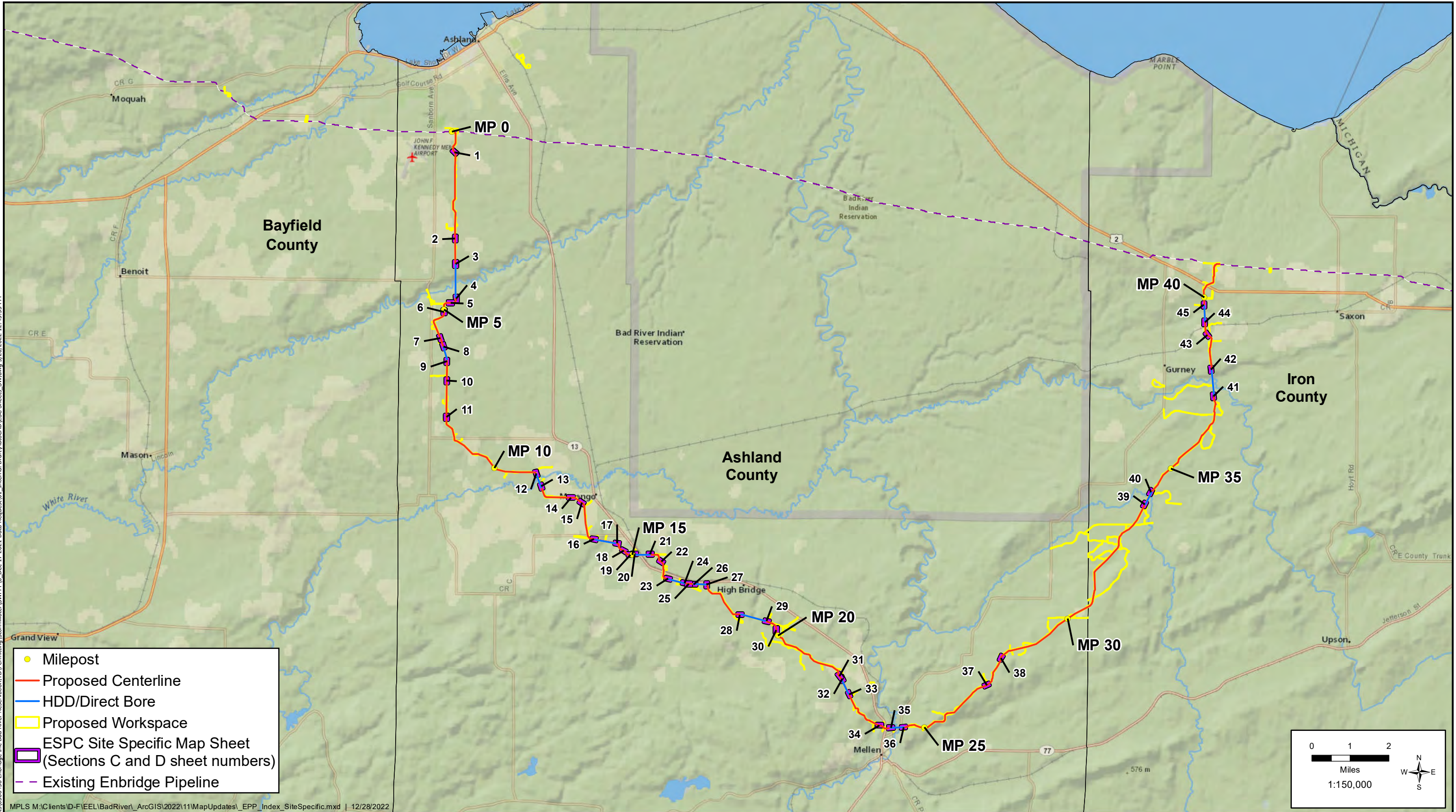
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Index Map - Mainline Line 5 Wisconsin Segment Relocation Project Enbridge Energy, L.P.								
 								
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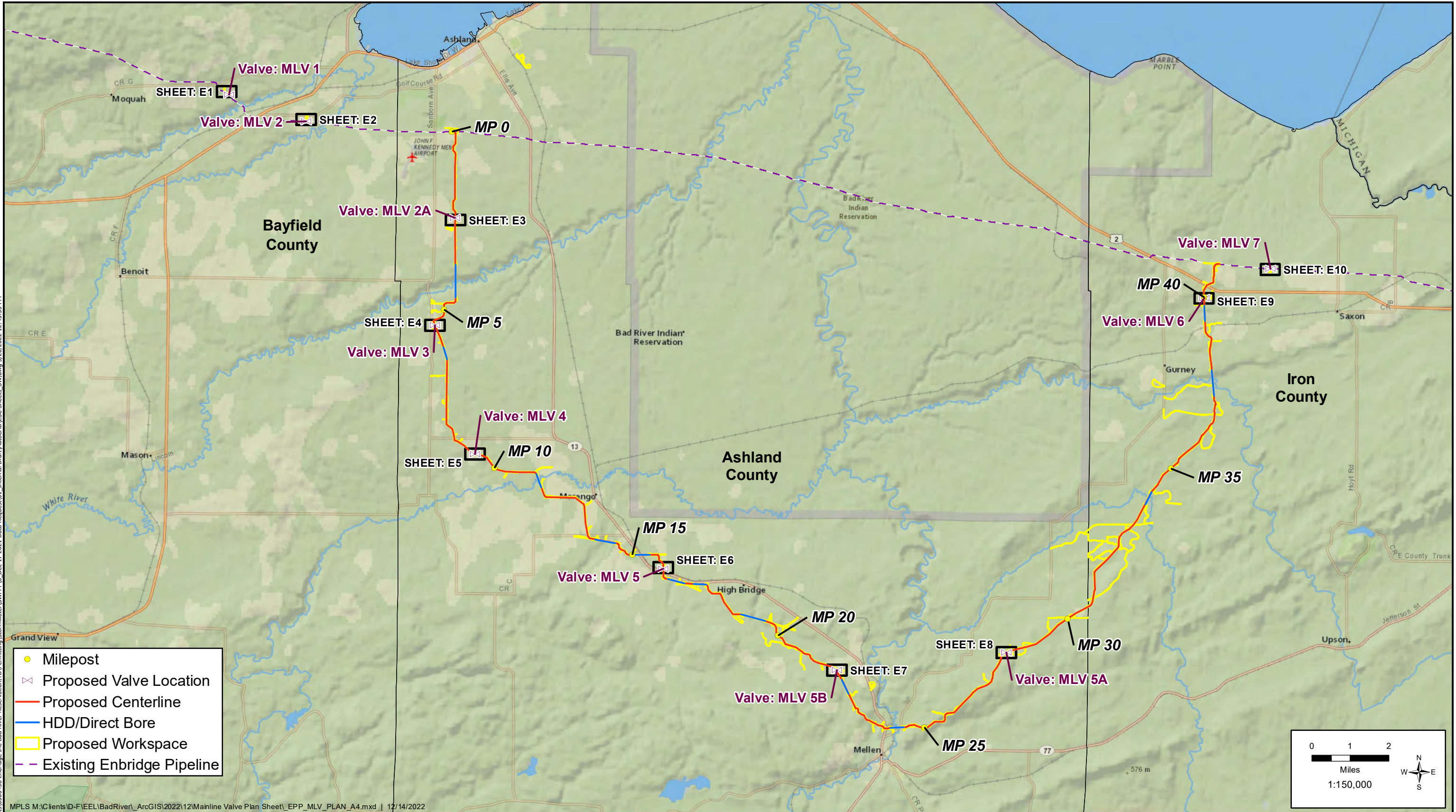
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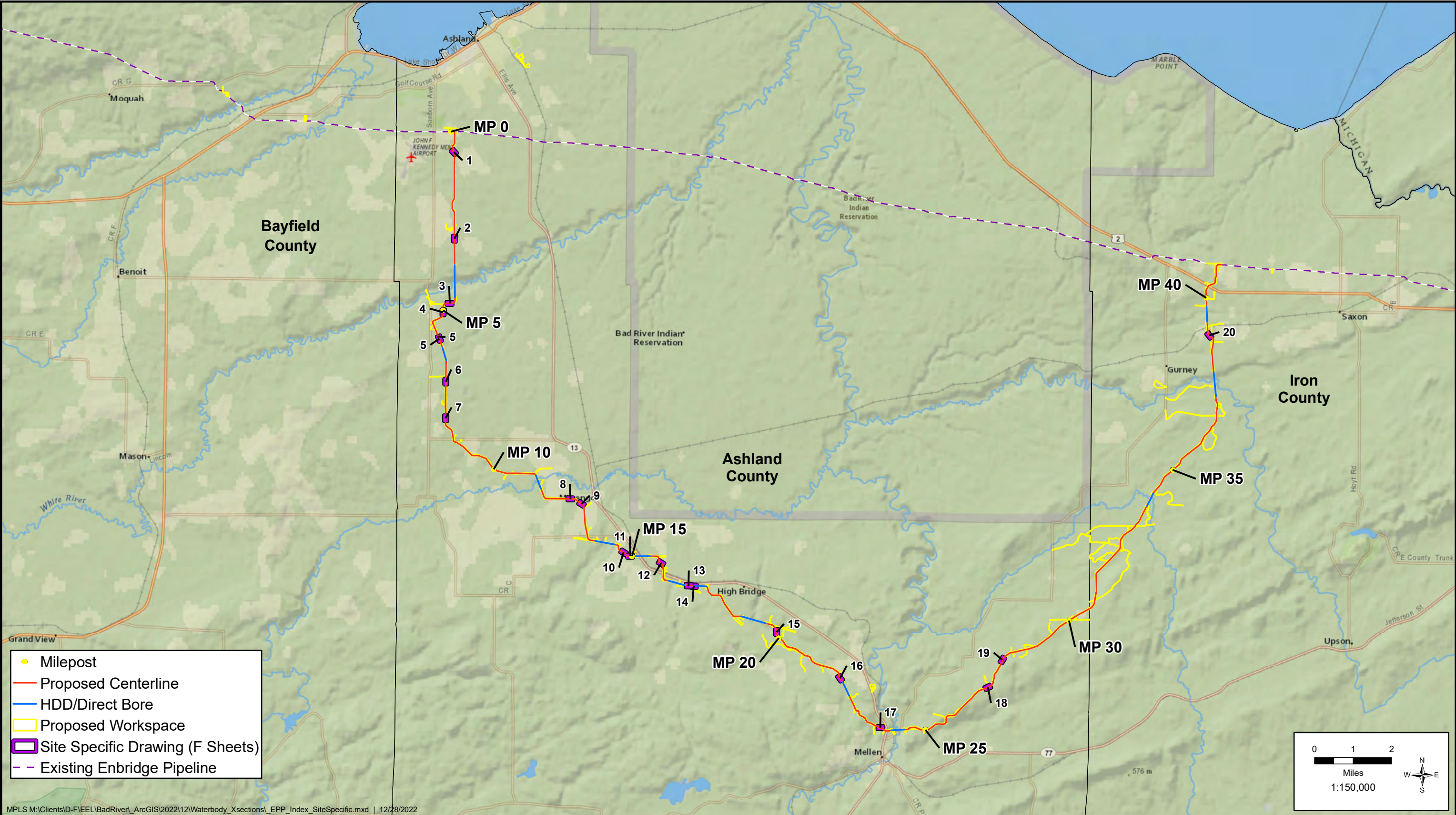
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EROSION AND SEDIMENT CONTROL PLAN NOTES

The Erosion and Sediment Control Plan (ESCP) implements measures identified in the Environmental Protection Plan (EPP) prepared by Enbridge Energy, Limited Partnership (Enbridge) and the Wisconsin Stormwater Construction Technical Standards (Technical Standards). The EPP outlines construction-related environmental policies, procedures, and protection measures Enbridge developed as a baseline for construction. Enbridge developed this EPP based on its experience implementing Best Management Practices (BMPs) during construction, as well as the Federal Energy Regulatory Commission's (FERC's) Upland Erosion Control, Revegetation, and Maintenance Plan (May 2013 Version) and Wetland and Waterbody Construction and Mitigation Procedures (May 2013 Version). The EPP is intended to meet or exceeds federal, state, and local environmental protection and erosion control requirements, specifications, and practices. The EPP addresses typical circumstances that may occur along the Project right-of-way (ROW).

Project-specific permit conditions and/or landowner agreements may supersede the general practices described in the EPP; however, alternative construction procedures implemented in lieu of this EPP must provide an equal or greater level of protection to the environment, and required advance approval from Enbridge. There may be discrepancies between the content of the EPP and the requirements of regulatory permits, including the Wisconsin Stormwater Construction Technical Standards. For any discrepancy, particularly regarding construction conditions, protection measures, and required notifications, the regulatory permits are controlling and supersede landowner agreements, EPP, and ESCP content.

Environmental Protection Plan - Index

1.0	CONSTRUCTION LINE LIST AND PERMITS	2
2.0	RIGHT-OF-WAY REQUIREMENTS	2
3.0	IDENTIFICATION OF RESOURCES AND ENVIRONMENTALLY SENSITIVE AREAS.....	2
4.0	CONTROLLING SPREAD OF UNDESIRABLE SPECIES.....	2
5.0	POTHOLING/HYDROVAC SLURRY	4
6.0	WET WEATHER CONSIDERATIONS.....	4
7.0	CLEARING AND GRADING	4
8.0	EROSION AND SEDIMENT CONTROLS.....	5
9.0	TOPSOIL SEGREGATION	8
10.0	TRENCHING.....	9
11.0	TRENCH BREAKERS	9
12.0	CONCRETE COATING.....	10
13.0	DRAIN TILE REPAIRS.....	10
14.0	BACKFILLING	10
15.0	CLEANUP.....	11
16.0	SOIL COMPACTION TREATMENT	11
17.0	ROCK REMOVAL.....	11
18.0	REPAIR OF DAMAGED CONSERVATION PRACTICES.....	12
19.0	LAND LEVELING FOLLOWING CONSTRUCTION	12
20.0	OFF-ROAD VEHICLE CONTROL	12
21.0	REVEGETATION & MONITORING	12
22.0	CONSTRUCTION THROUGH ORGANIC FARMS	16
23.0	STREAM AND RIVER CROSSING GENERAL REQUIREMENTS.....	17
24.0	WETLAND CROSSING GENERAL REQUIREMENTS	22
25.0	CONSTRUCTION DEWATERING.....	23
26.0	WATER APPROPRIATION	26
27.0	WINTER CONSTRUCTION	26
28.0	WASTE MANAGEMENT.....	27
29.0	SPILL PREVENTION, CONTAINMENT, AND CONTROL MEASURES.....	28
30.0	DRILLING FLUID RESPONSE, CONTAINMENT, AND NOTIFICATION PROCEDURES	33

GENERAL ESCP & EPP NOTES

THE FOLLOWING ESCP NOTES AND EXCERPTS FROM THE EPP ARE FOR REFERENCE ONLY, REFER TO THE FULL EPP DOCUMENT FOR A COMPLETE OUTLINE OF CONSTRUCTION RELATED POLICIES, PROCEDURES, AND BMP MEASURES.

- BMP measures identified in the ESCP may be adjusted and/or modified due to varying site conditions at the time of construction.
- All construction equipment and vehicles will be confined to the approved construction right-of-way (ROW) and additional temporary workspace (ATWS). Construction activities are restricted to the approved designated areas.
- Prior to commencement of clearing operations, Enbridge will mark the outer limits of the construction ROW and ATWS.
- The initial stage of construction involves the clearing of brush, trees, and tall herbaceous vegetation from the ROW. Clearing may be accomplished with chain saws, mowers, and hydraulic tree-cutting equipment.
- All changes to this plan set must be approved by the Environmental Inspector (EI).

EROSION AND SEDIMENT CONTROL (ESC)

- Silt Fence, Straw Bales, and Biologs – Refer to ESCP Sheets A9 through A10 - Figures 4 through 6.
- Slope Breakers - Temporary and permanent slope breakers will be installed to minimize concentrated or sheet flow runoff in disturbed areas in accordance with the maximum allowable spacing included on ESCP Sheet A12 - Figure 9, unless otherwise specified in permit conditions.
- Trench breakers - installed at the base of slopes greater than 5 percent where the base of the slope is less than 50 feet from a waterbody or wetland, and where necessary to avoid draining a waterbody or wetland.

MAINTENANCE

- All non-functional ECDs will be repaired, replaced, or supplemented within 24 hours after discovery, or as soon as practicable following discovery.
- Sediment must be removed where accumulation reaches one-third of the height of the control measure.

WETLANDS

- Enbridge will post signs identifying the boundaries of sensitive resource areas, waterbodies, wetlands, or areas with special requirements along the construction work area.
- Vegetation and trees within wetlands will be cut off at ground level, leaving existing root systems intact; clearing debris will be removed from the wetland for disposal. Hydro-axe debris, or similar can be left in the wetland if spread evenly in the construction ROW to a depth which will allow for normal revegetation, as determined by the EI.
- In wetlands that are not in actively cultivated or rotated cropland, the extent of tree stump removal will be limited to directly over the ditch line. Stumps and root systems from the rest of the construction ROW in wetlands will not be removed, unless Enbridge determines that safety-related considerations require them to do so.
- When constructing in wetland areas without standing water, up to 12 inches of topsoil (organic layer) will be stripped from the trench line and stockpiled separate from trench spoil to preserve the native seed stock.
- Equipment used for mixing, pouring, casting, or coating will not be washed within 100 feet of any wetland or waterbody.
- Backfilling - Wetlands will be restored as near as practicable to pre-construction conditions and reasonable attempts will be made to return the subsoil to its pre-construction density.
- Non-standing water wetlands will be seeded using the mix provided in EPP, Appendix B to provide temporary cover and allow natural revegetation via the seeds and rhizomes in the topsoil spread back over the ROW after pipe installation. No fertilizer, lime, or mulch will be applied in wetlands.

- Refer to Section 24.0 and ESCP Sheet A16 - Figure 18 for additional Wetland Crossing General Requirements.
- Wetlands contained entirely within the right-of-way, or isolated wetlands, may be matted during construction, refer to Section 24 and ESCP Sheet A16 - Figure 18 and ESCP Sheet A18 - Figure 21. Silt fence or other perimeter controls will be placed around isolated wetlands during restoration.

SEEDING AND MULCHING

- When used, mulch will be applied at a rate consistent with Wisconsin Technical Standard 1058 but no less than 2 tons per acre to cover at least 80 percent of the ground surface; and distribution will occur by a mechanical mulch blower or by hand in areas not accessible to the mulch blower. Mulch will be anchored/crimped using a mulch-anchoring tool or disc set in the straight position to minimize loss by wind and water, as site conditions allow.
- The Contractor can use hydro-mulch and liquid tackifier in place of straw or weed-free hay mulch with prior approval from Enbridge.
- Deep tillage will be performed in actively cultivated areas and in non-agricultural areas (as directed by Enbridge) to relieve soil compaction and promote root penetration. Deep tillage will not occur in non-farmed wetlands. The soil will then be tilled with a disc, field cultivator, or chisel plow (or equivalent) to prepare a seedbed, breaking up large clods and firm the soil surface.
- Swales will be restored as near as practicable to original conditions. Swales will be seeded and either mulched with straw or erosion control blankets will be installed to the perceivable top of bank for the width of the construction ROW.
- Upon final grading of the construction ROW, and upon the restoration of wetland and waterways, seeding and restoration/stabilization will occur within 48 hours if weather and soils conditions allow. Other methods of stabilization will be used if temporary seeding is not appropriate due to seasonal conditions (e.g., mulch, erosion control blanket).
- Refer to EPP, Section 21.0 for seed specification and guidelines. Project-specific permit conditions and landowner requests (with exception to wetlands) for specific seed mixes (as indicated in the Project Construction Line List) take precedence over this section.

MATERIAL WASTE HANDLING

- Enbridge requires that the storage of petroleum products, refueling, maintenance, and lubricating operations take place in upland areas that are more than 100 feet from wetlands, streams, and waterbodies (including drainage ditches), and water supply wells. In addition, the Contractor will store hazardous materials, chemicals, fuel and lubricating oils, and perform concrete coating activities outside these areas.

POLLUTANT CONTROLS

- Spills occurring during construction, operation and maintenance are to be reported immediately to the Enbridge Representative and the EI, regardless of volume.
- The Contractor will report spills to appropriate federal, state, and local agencies as soon as possible. Refer to Appendix E of the EPP for a list of federal, state, and local agencies for reporting thresholds and timeframes.

GENERAL SEQUENCE OF CONSTRUCTION

- Limits of construction must be field marked prior to clearing, installation of sediment control measures, construction, or other land disturbing activities.
 1. Install stabilized construction entrances.
 2. Clear vegetation in the ROW, as required.
 3. Install sediment control devices.
 4. Prepare temporary parking and storage area(s).
 5. Start construction of the ROW.
 6. Begin grading the ROW.
 7. Install pipeline.
 8. Establish final grades and contours. Conduct seeding and stabilization include installation of erosion and sediment controls.
 9. Remove all temporary erosion and sediment control devices (upon successful vegetation establishment).

GENERAL NOTES AND COMMENTS:

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ESCP Notes
Line 5 Wisconsin Segment Relocation Project
Enbridge Energy, L.P.

SHEET A6



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ESC Plan Sheet Notes:

- 1. Install Construction Entrance per EPP Section 8.1, and ESCP Sheet A19 - Figure 24.
- 2. Install Silt Fence/Biolog per EPP Section 8.3, and ESCP Sheet A9 - Figure 4 and ESCP Sheet A10 - Figure 6. Adjust according to site conditions.
- 3. Steep Slopes (slopes > 20%) adjust the following according to site conditions:
 - a. EPP Section 8.3 – Silt Fence, Straw Bale, Biologs, Ditch Check (ESCP Sheets A9 through A10 - Figures 4 through 6)
 - b. EPP Section 8.5 – Erosion Control Blanket (ESCP Sheet A11 - Figure 7)
 - c. EPP Section 8.6 – Mulching, Additives (Technical Standard 1050, 1058)
 - d. EPP Section 8.7 – Cat Tracking (ESCP Sheet A11 - Figure 8)
 - e. EPP Section 8.9 – Berms/Slope Breakers (ESCP Sheets A12 through A13 - Figures 9 through 11)
- 4. Install Slope Breaker/Trench Breaker (Plug) per EPP Sections 8.9 and 11.0, and ESCP Sheets A12 through A13 - Figures 9 through 11.
- 5. Construct pipeline and equipment crossing of stream according to EPP Section 23, and ESCP Sheets A13 through A15 - Figures 12 through 16 and ESCP Sheet A18 – Figure 21.
- 6. Construct pipeline and equipment crossing of wetland according to EPP Section 24, and ESCP Sheet A16 - Figure 18 and ESCP Sheet A18 - Figure 21.
- 7. Access Roads crossing wetlands and/or waterbodies will be matted or bridged in accordance with applicable federal and state permits per ESCP General Notes.
- 8. During restoration, perimeter controls will be installed around wetlands and waterbodies in accordance with EPP Section 8.3, and ESCP Sheets A9 through A10 - Figures 4 through 6.
- 9. HDD Crossings:
 - a. HDD crossing BMP practices in accordance with EPP Section 30.
 - b. HDD entrance and exit staging in accordance with ESCP Sheets A18 through A19 - Figures 22 and 23.

Topic	EPP Section	ESCP Figure	Technical Standard
Stone access pad	8.1	Figure 24	1057
Silt fence	8.3	Figure 4	1056
Straw bale	8.3	Figure 5	1055
Biolog	8.3	Figure 6	1071
Ditch checks	8.3	NA	1062
Erosion control blanket	8.5	Figure 7	1052 (non-channel) 1053 (channel)
Mulching	8.6	NA	1058
Additives	8.6	NA	1050
Cat tracking	8.7	Figure 8	1067
Inlet protection	8.8	NA	1060
Berms/slope breakers	8.9	Figure 9, 10, 11	1066
Dust Control	8.10	NA	1068
Topsoil segregation	9.0	Figure 1, 2, 3	NA
Trench Plug	11.0	NA	NA
Seeding	21.9	NA	1059
Waterbody crossing	23.0	Figure 12, 13, 14, 15, 16	NA
Bank stabilization	23.3.6	Figure 17	NA
Wetland crossing	24	Figure 18	NA
Waterbody within wetland crossing	23.0, 24.0	Figure 21	NA
Construction Dewatering	25.0	Figure 19, 20	1061
HDD Entrance	30.0	Figure 22	NA
HDD Exit	30.0	Figure 23	NA



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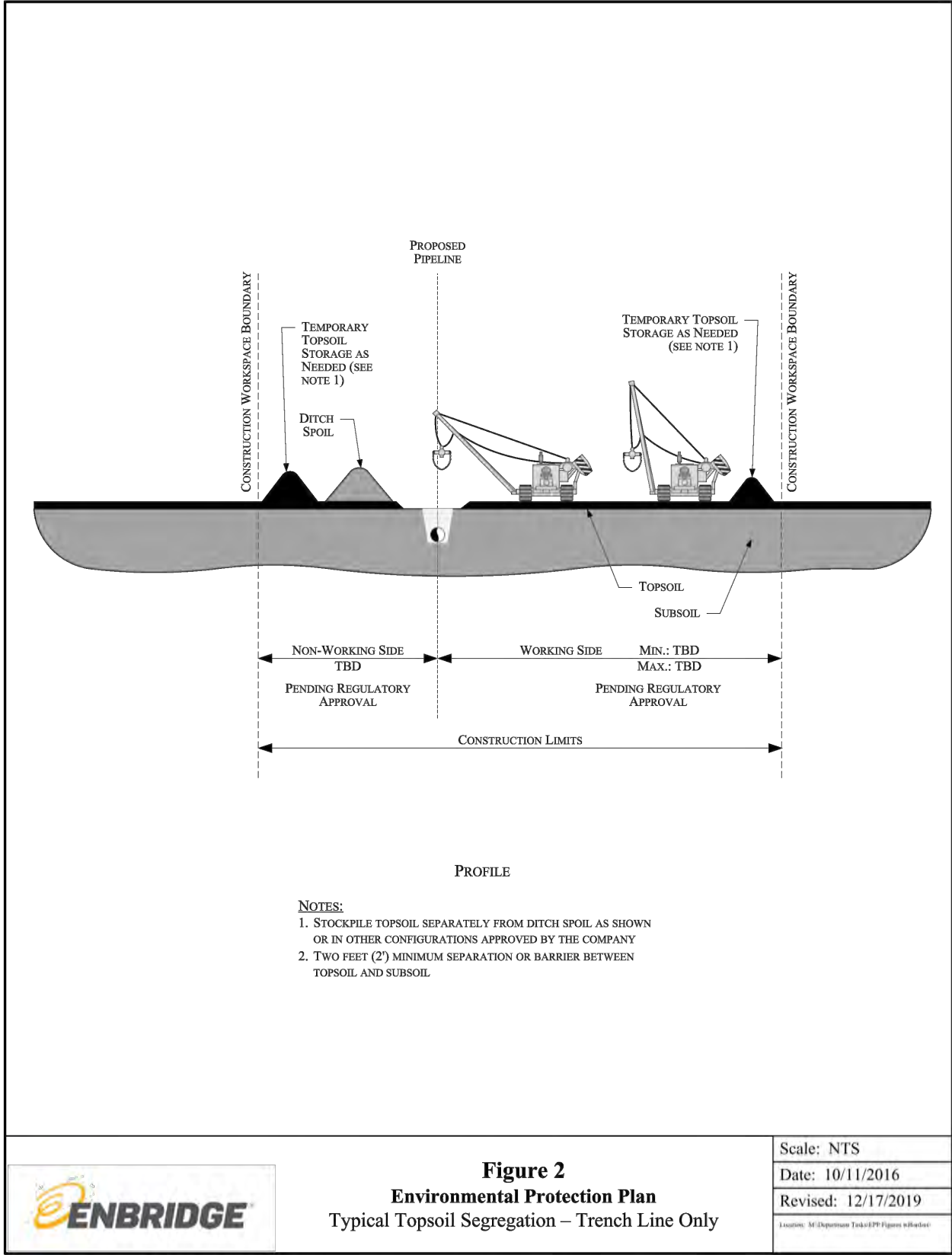
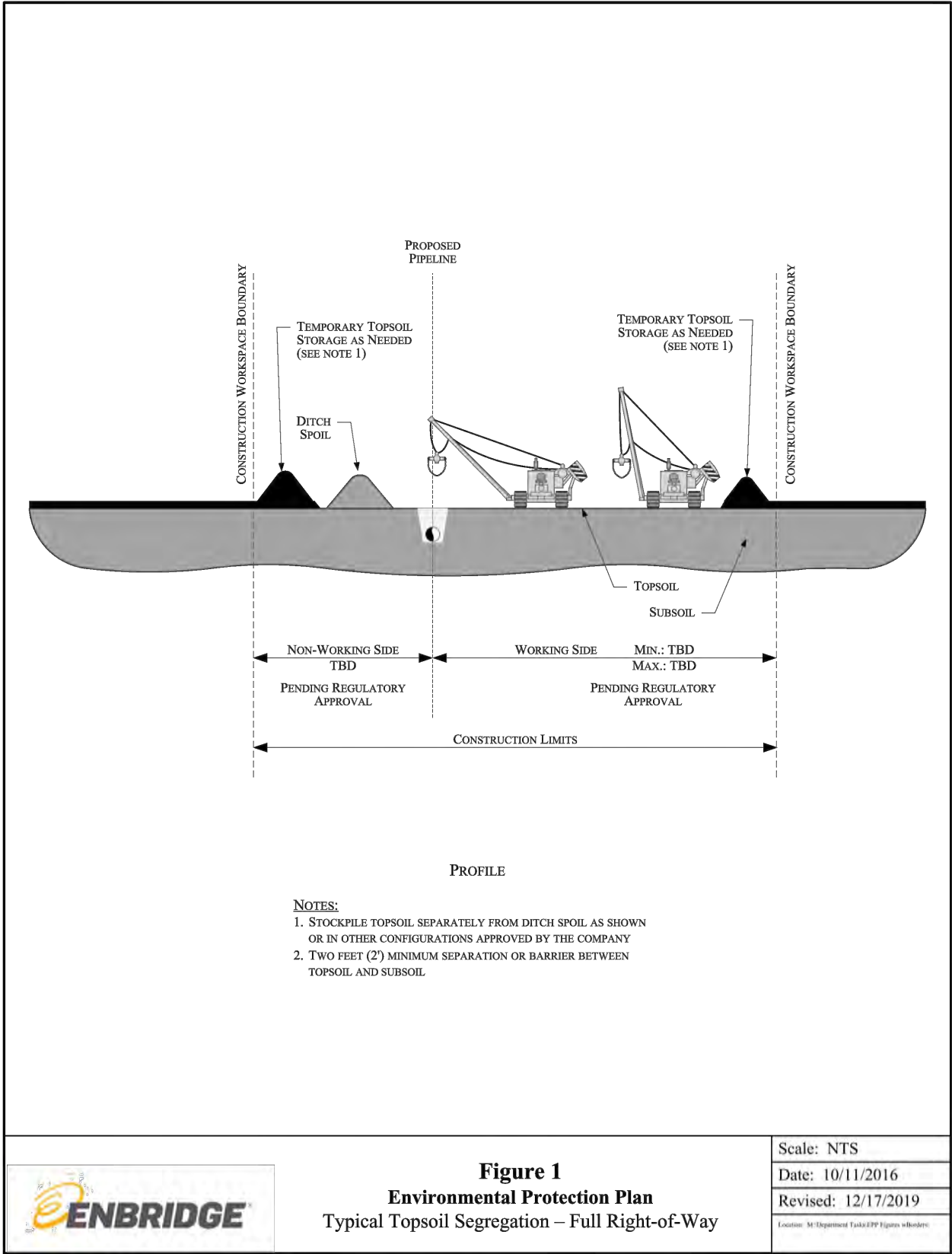
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ESCP Map Notes and Cross Reference Table
Line 5 Wisconsin Segment Relocation Project
Enbridge Energy, L.P.



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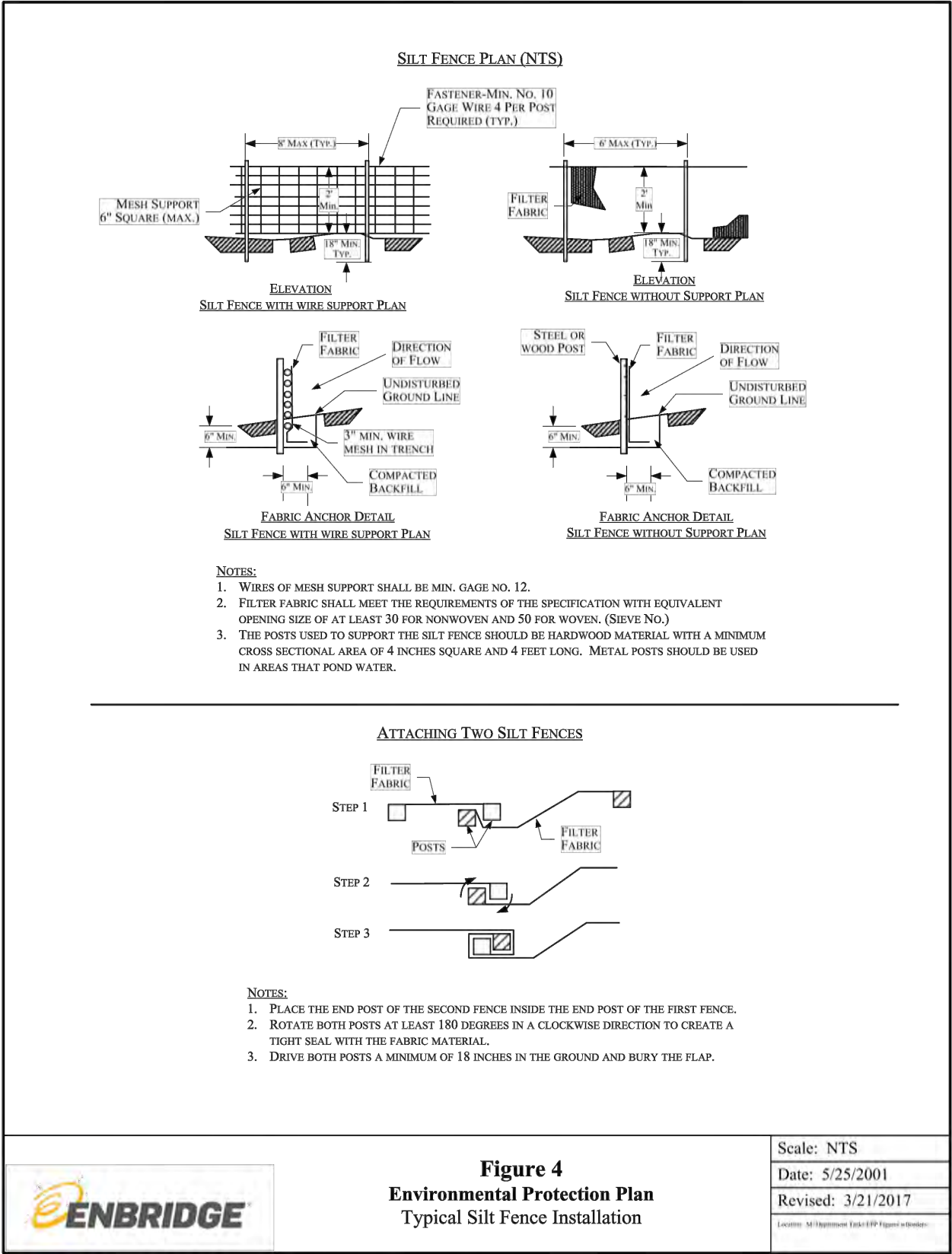
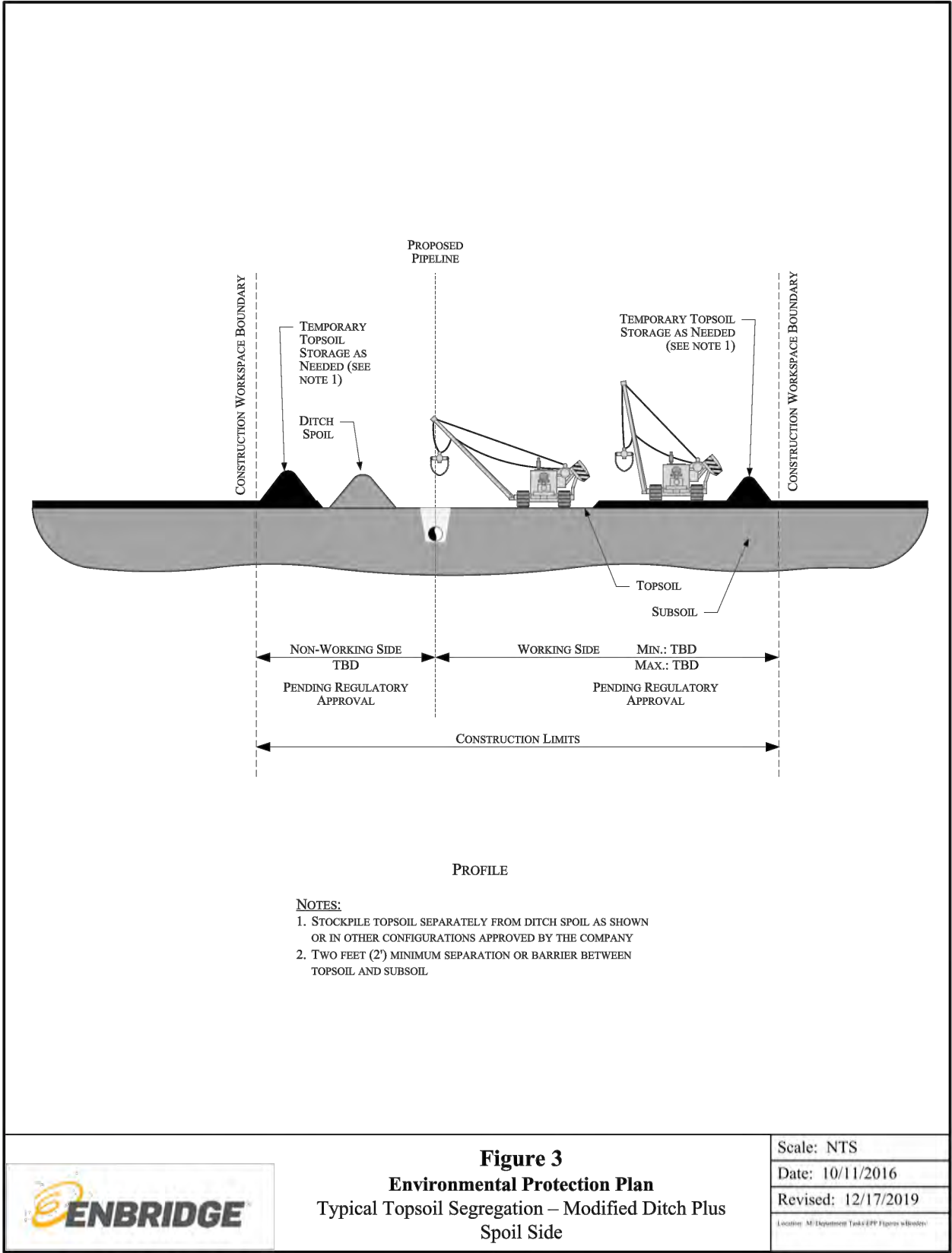
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ESCP Details
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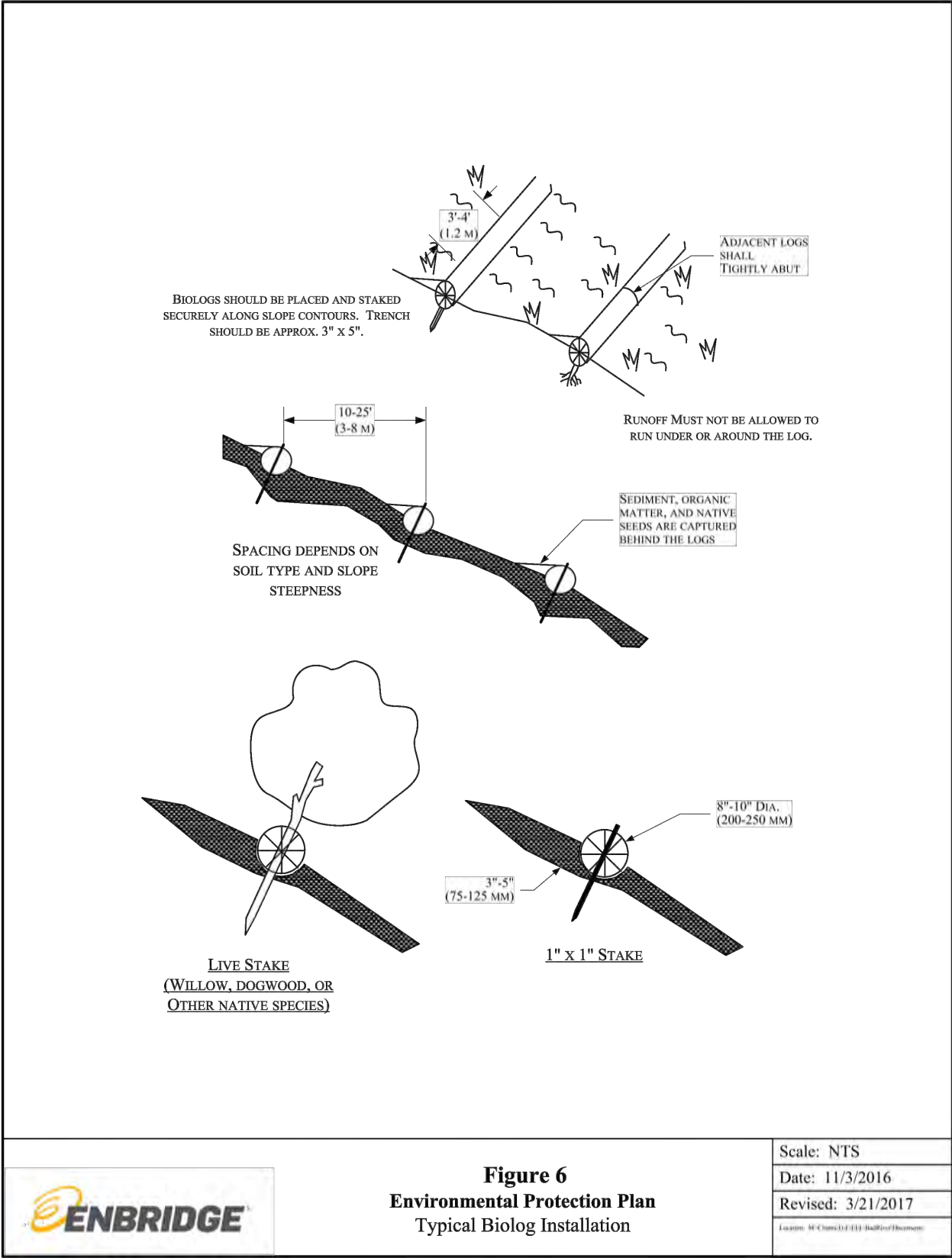
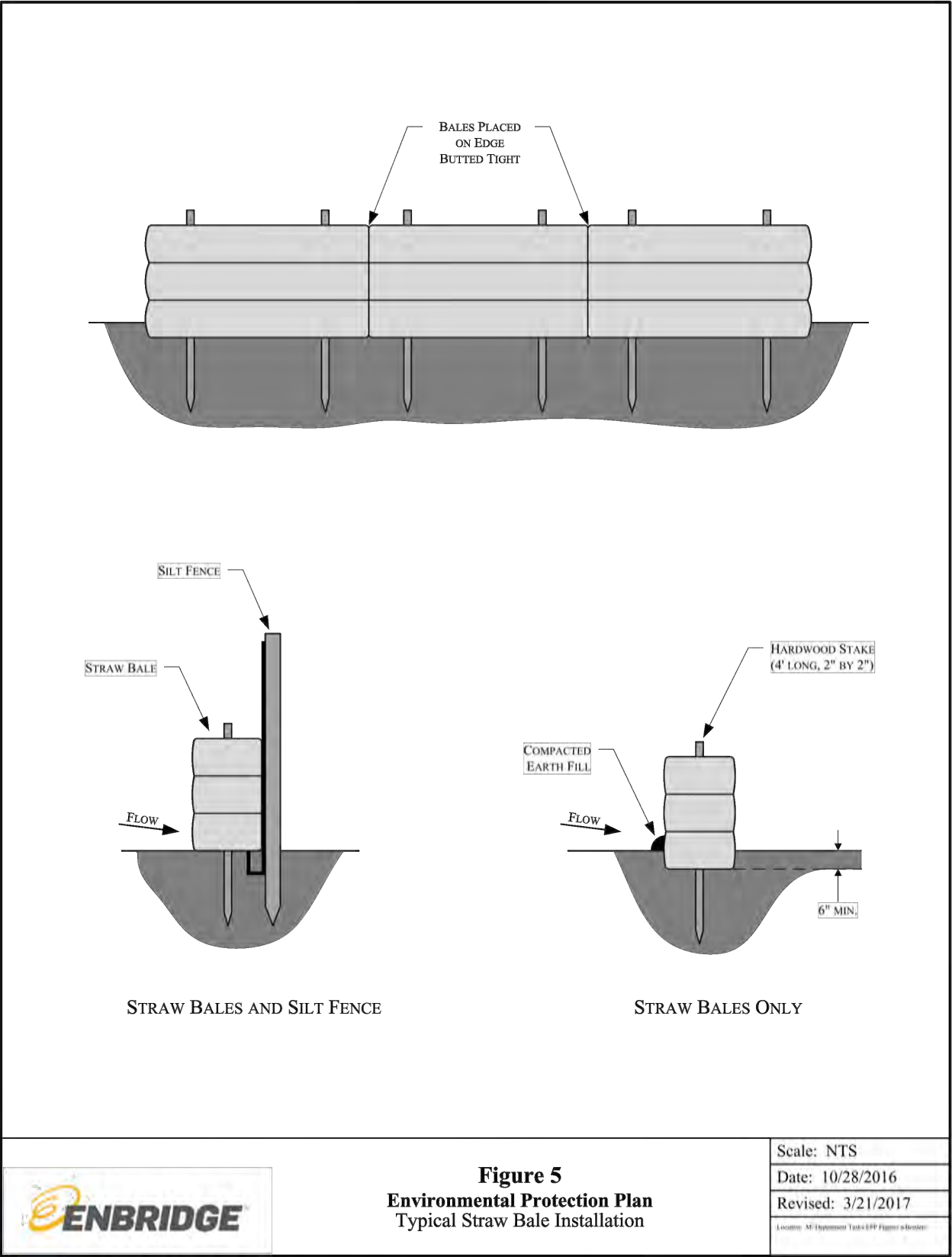
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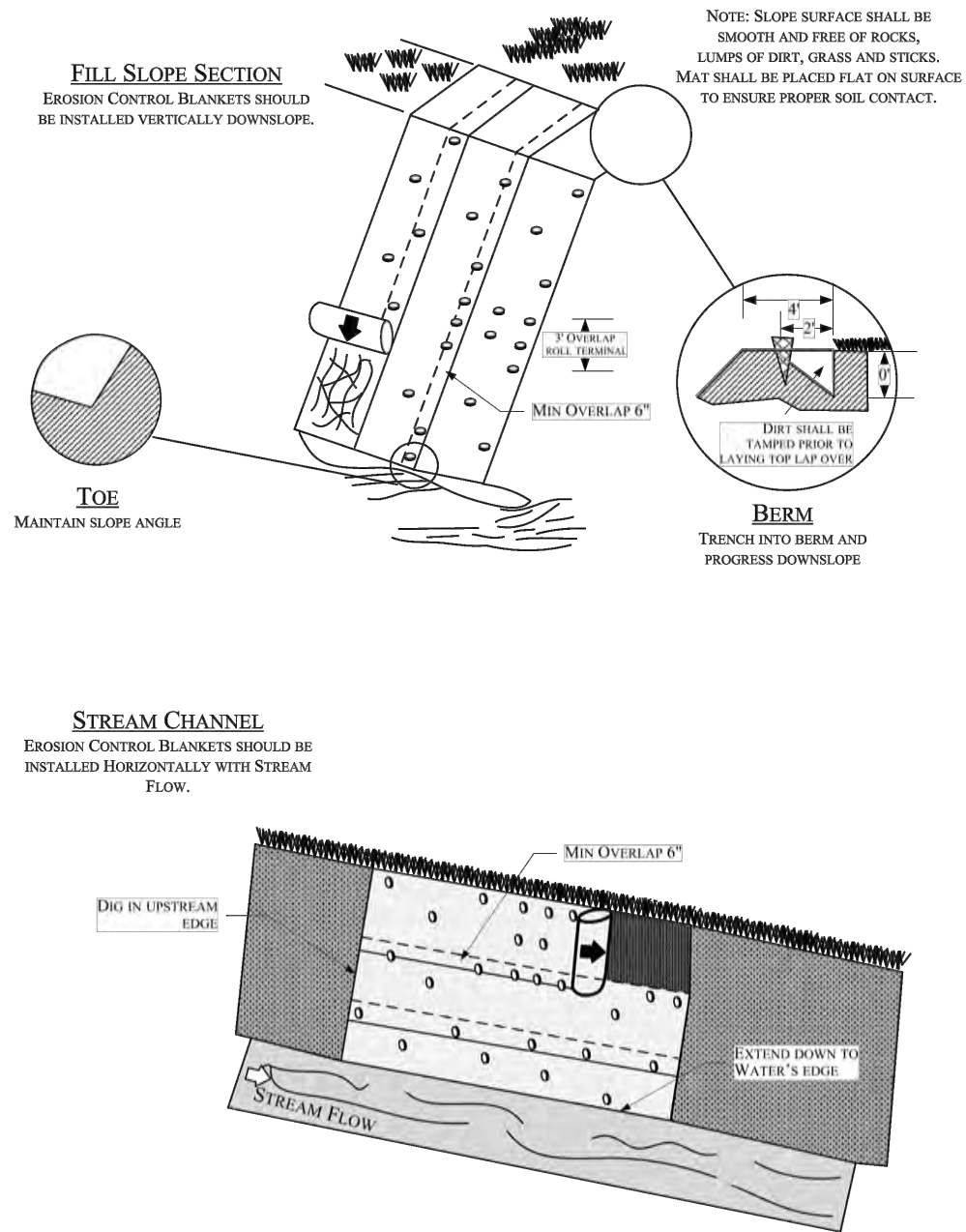


Figure 7
Environmental Protection Plan
Typical Erosion Control Blanket Installation

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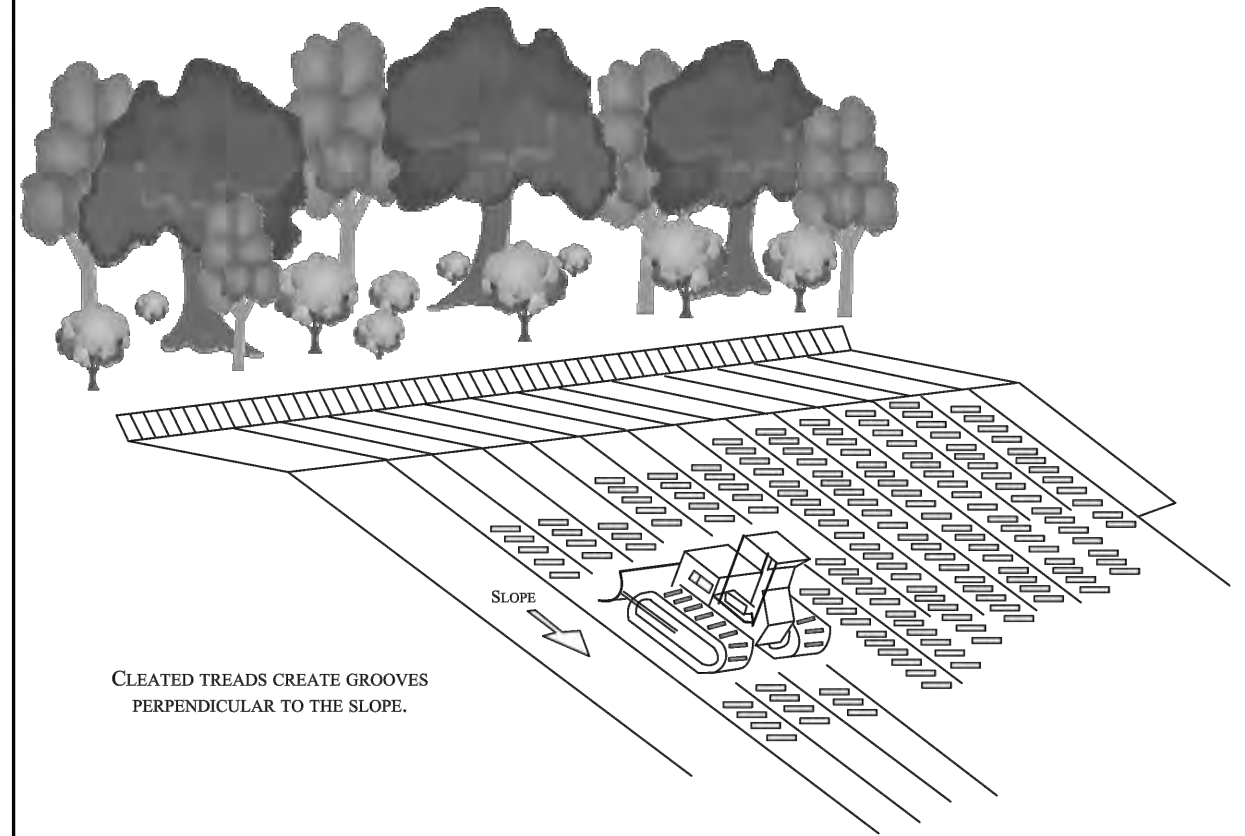


Figure 8
Environmental Protection Plan
Typical Cat Tracking

Scale: NTS
Date: 11/3/2016
Revised: 3/21/2017
Location: M:\Department Tasks\EPF\Figures\Fig08.dwg

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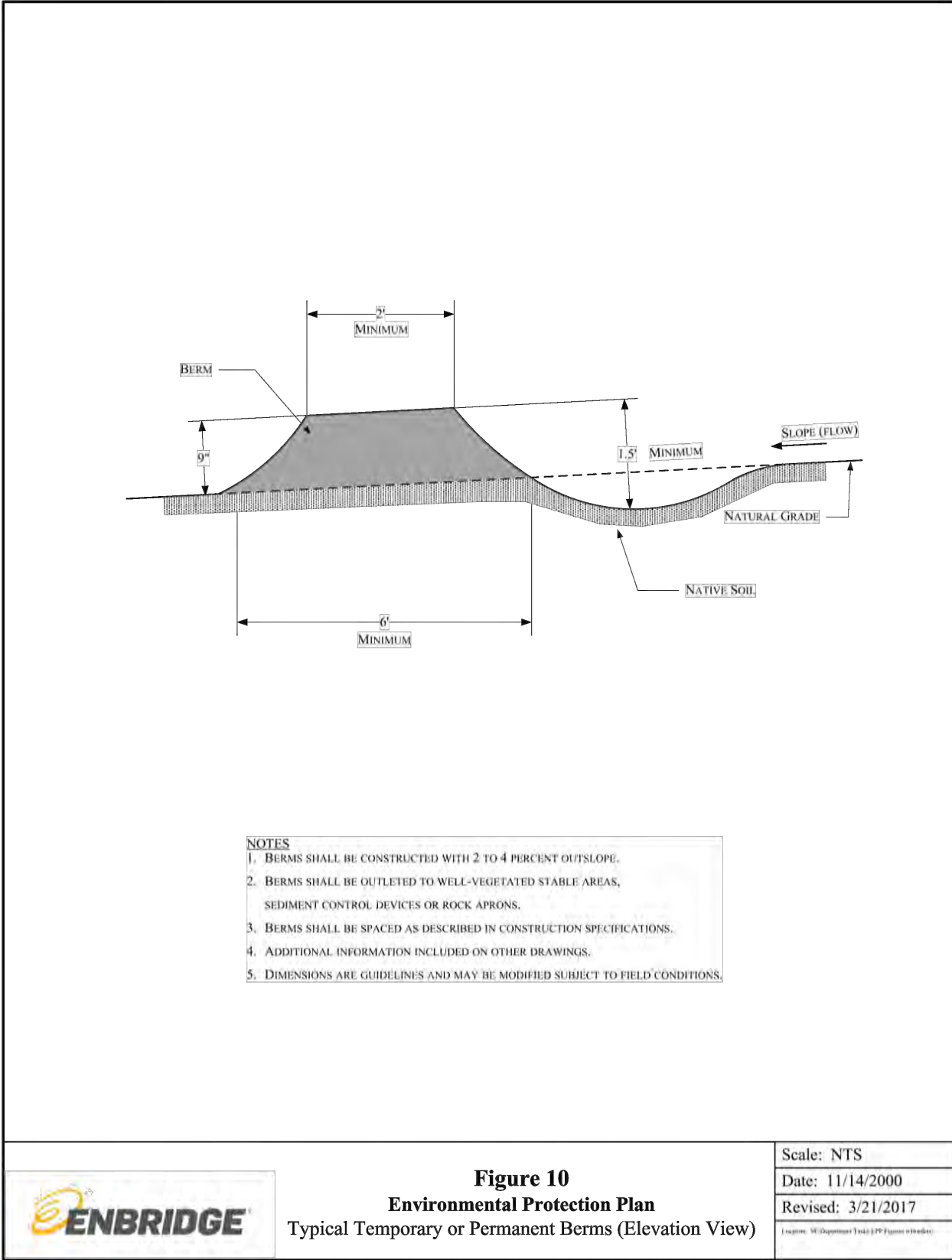
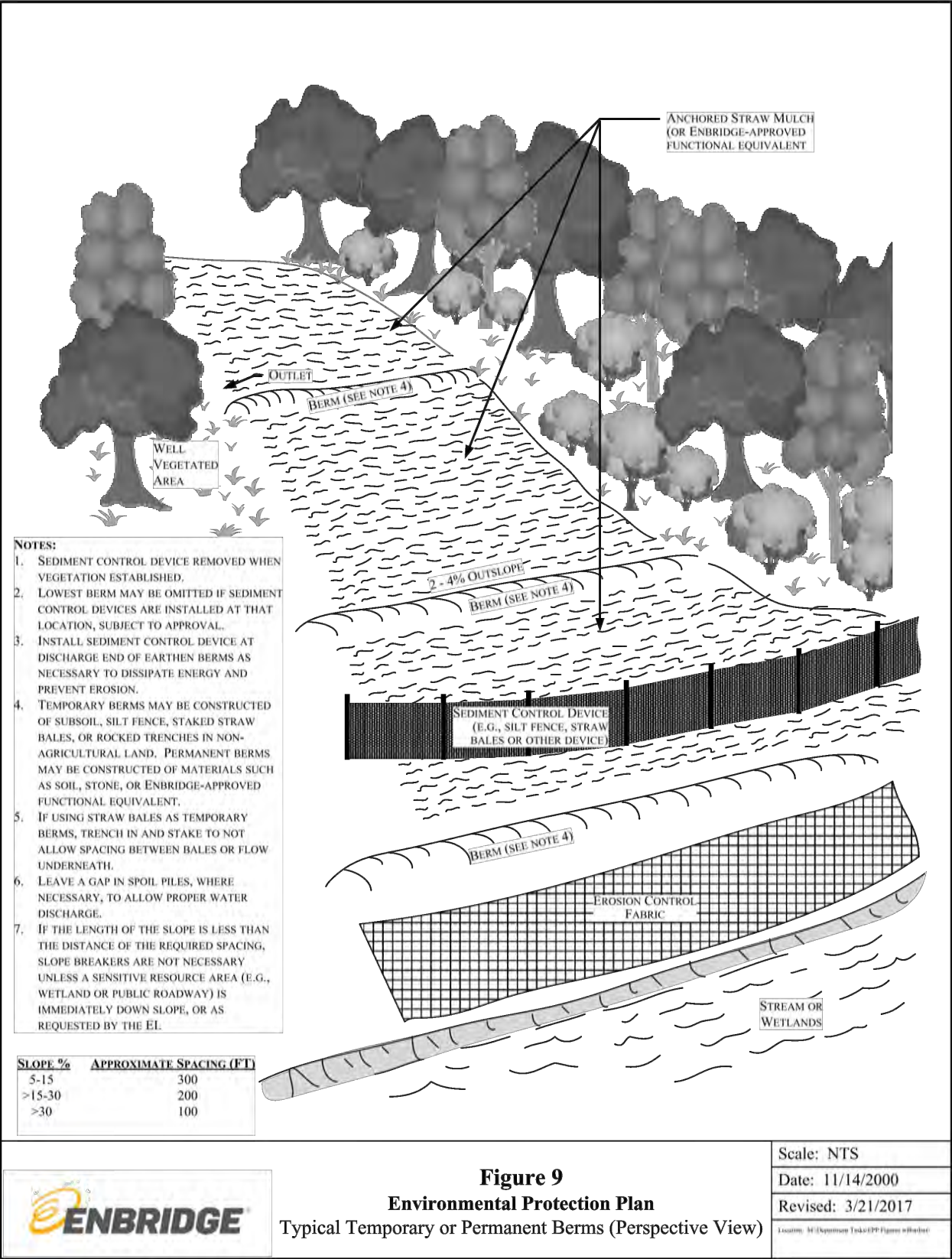
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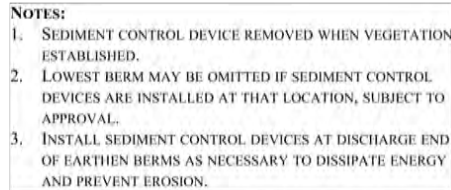
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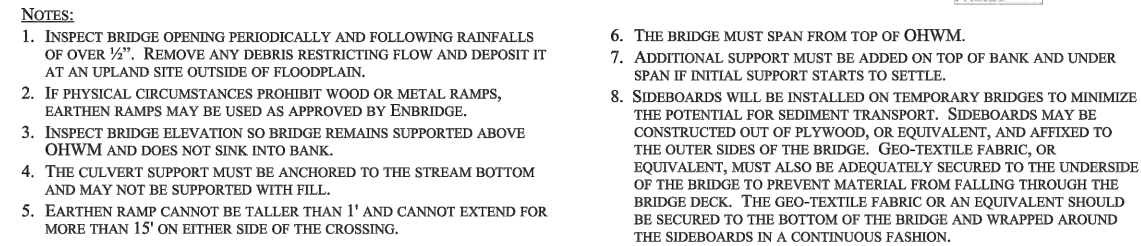
ERM

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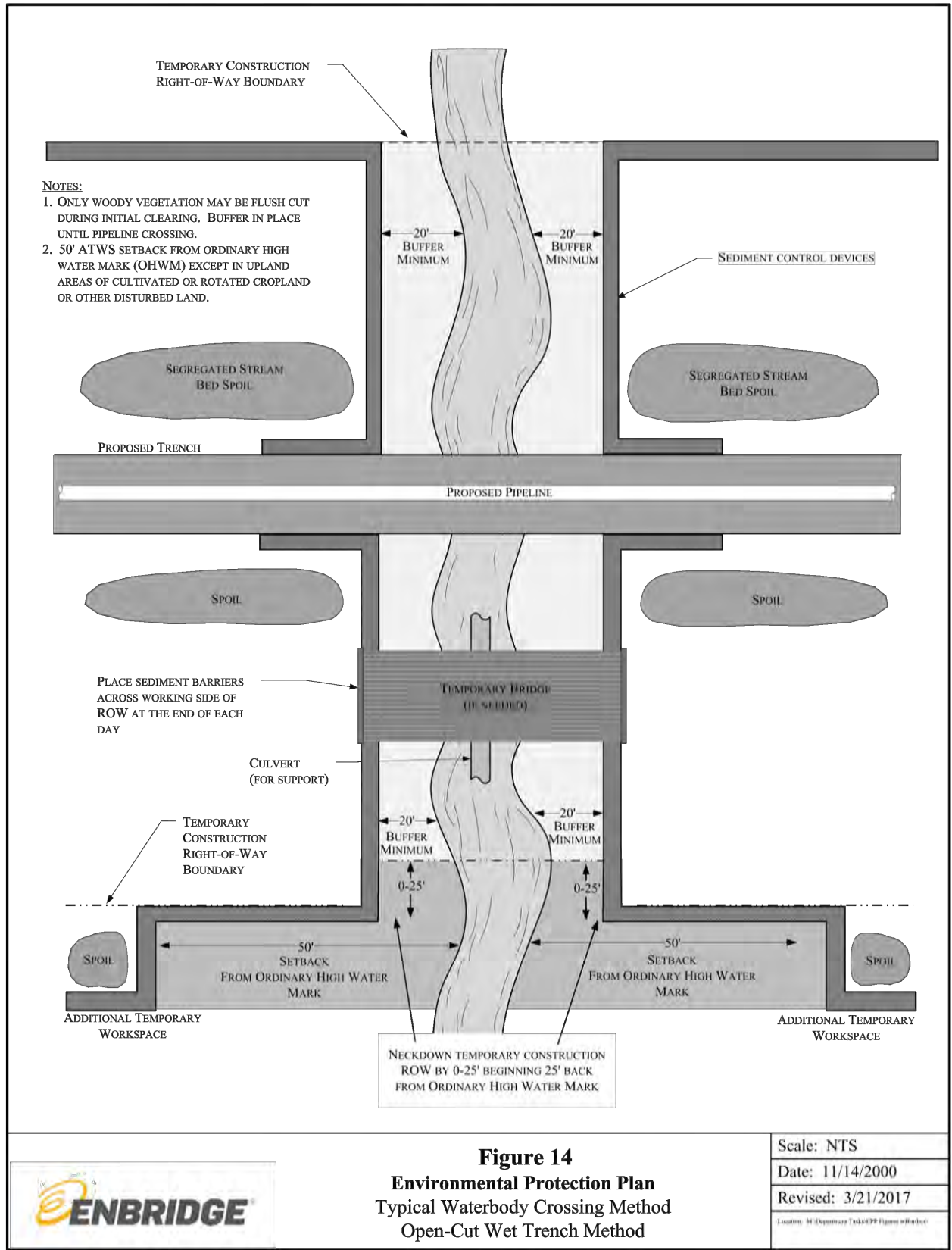
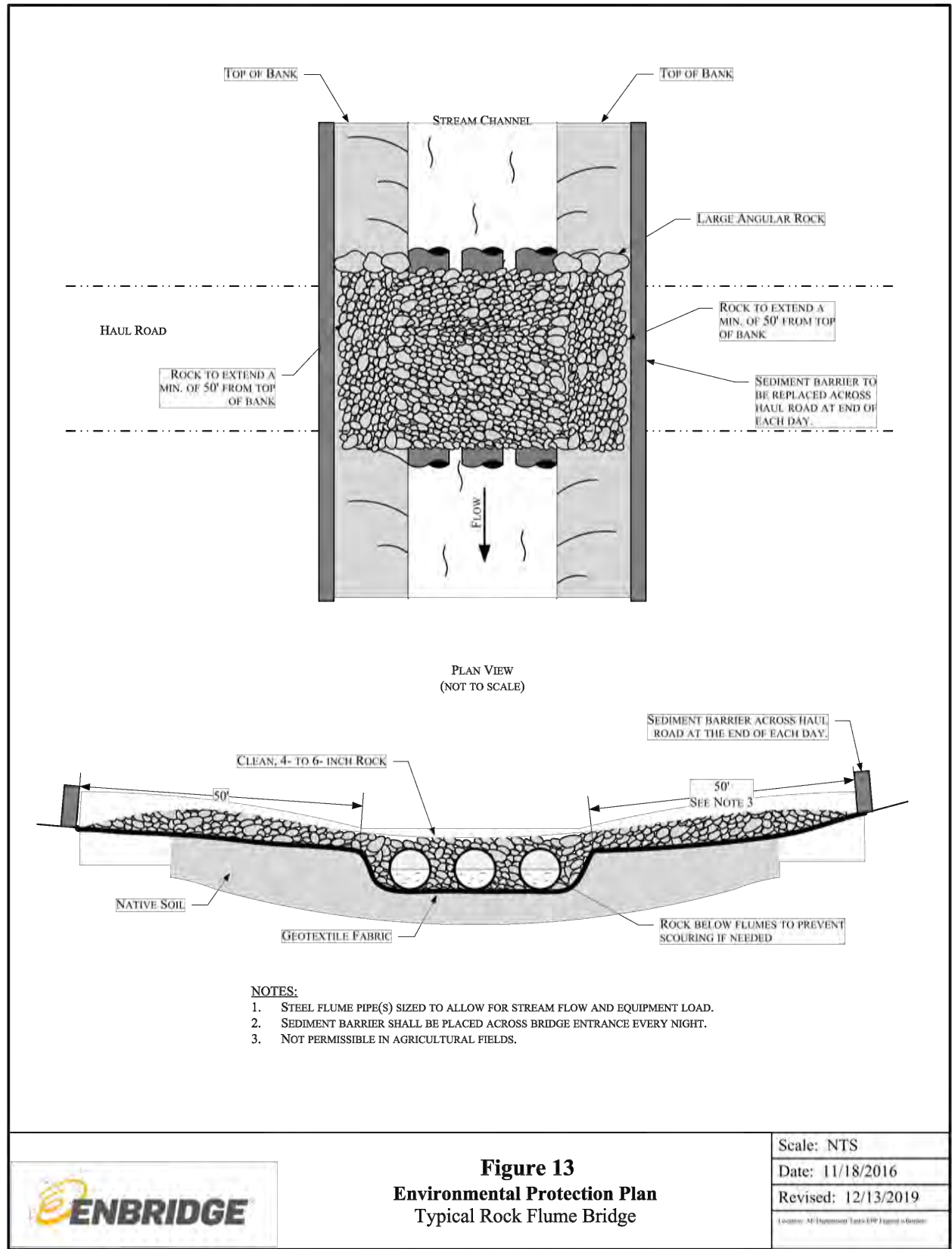


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Date: 11/14/2000
Revised: 3/3/2017
Location: M:\Claims\11-F-111-Bad River Documents



Scale: NTS
Date: 11/16/2016
Revised: 3/21/2017
Location: M-Department Task/LPP Figures w/Bond

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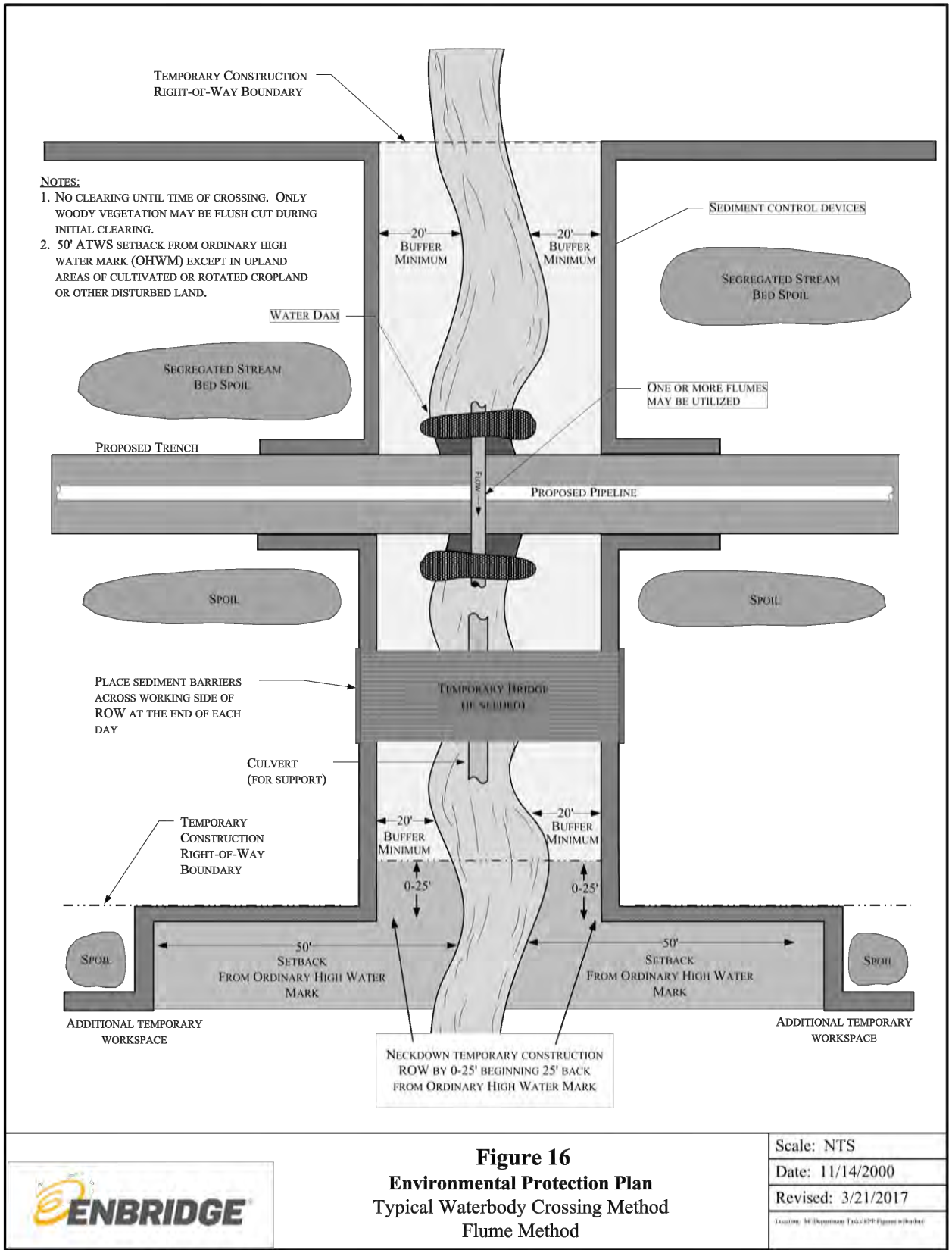
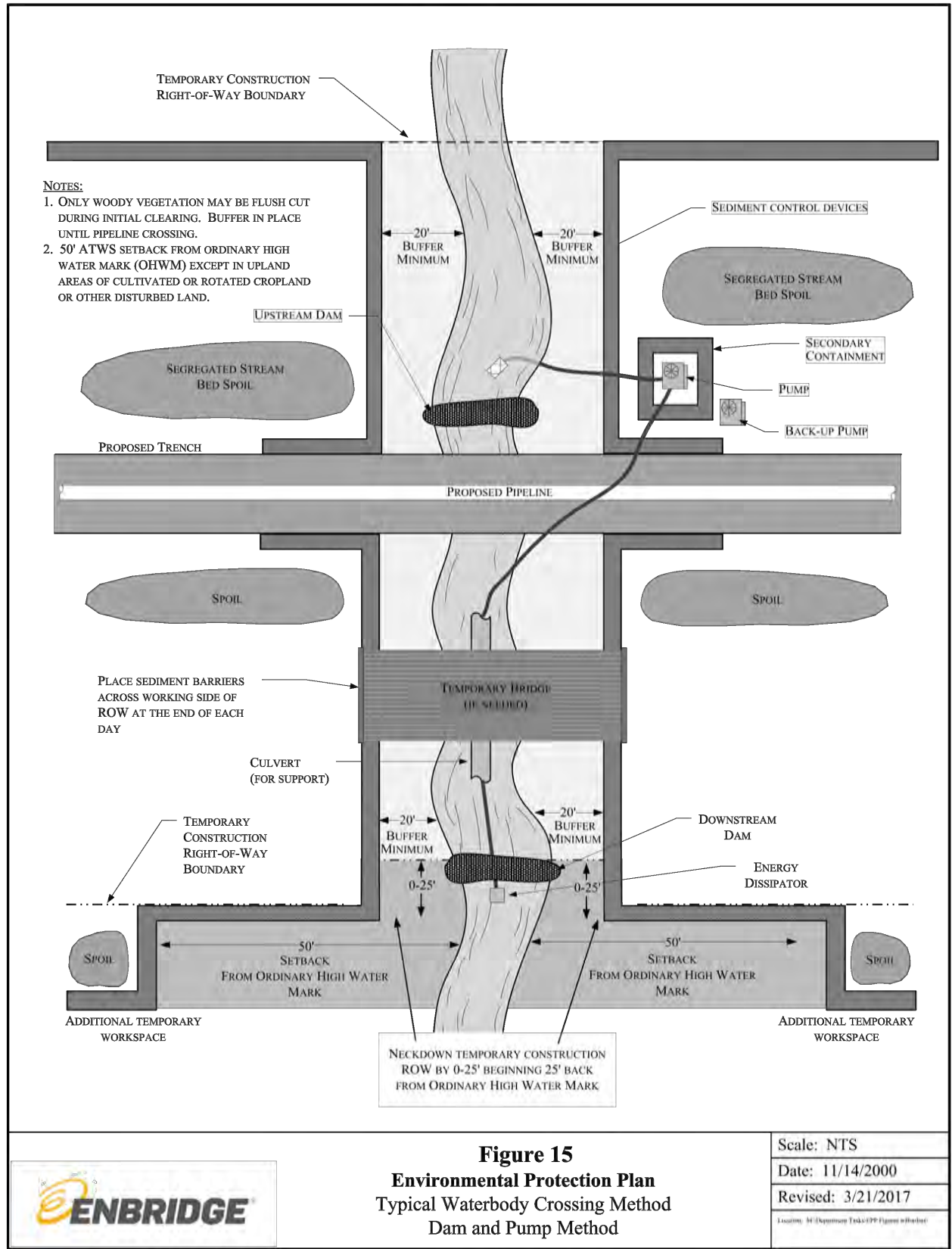


GENERAL NOTES AND COMMENTS:

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
△	02/12/2021	PCB	ISSUED FOR REVIEW	-	-
△	05/20/2022	WTS	ISSUED FOR REVIEW	-	-

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GENERAL NOTES AND COMMENTS:

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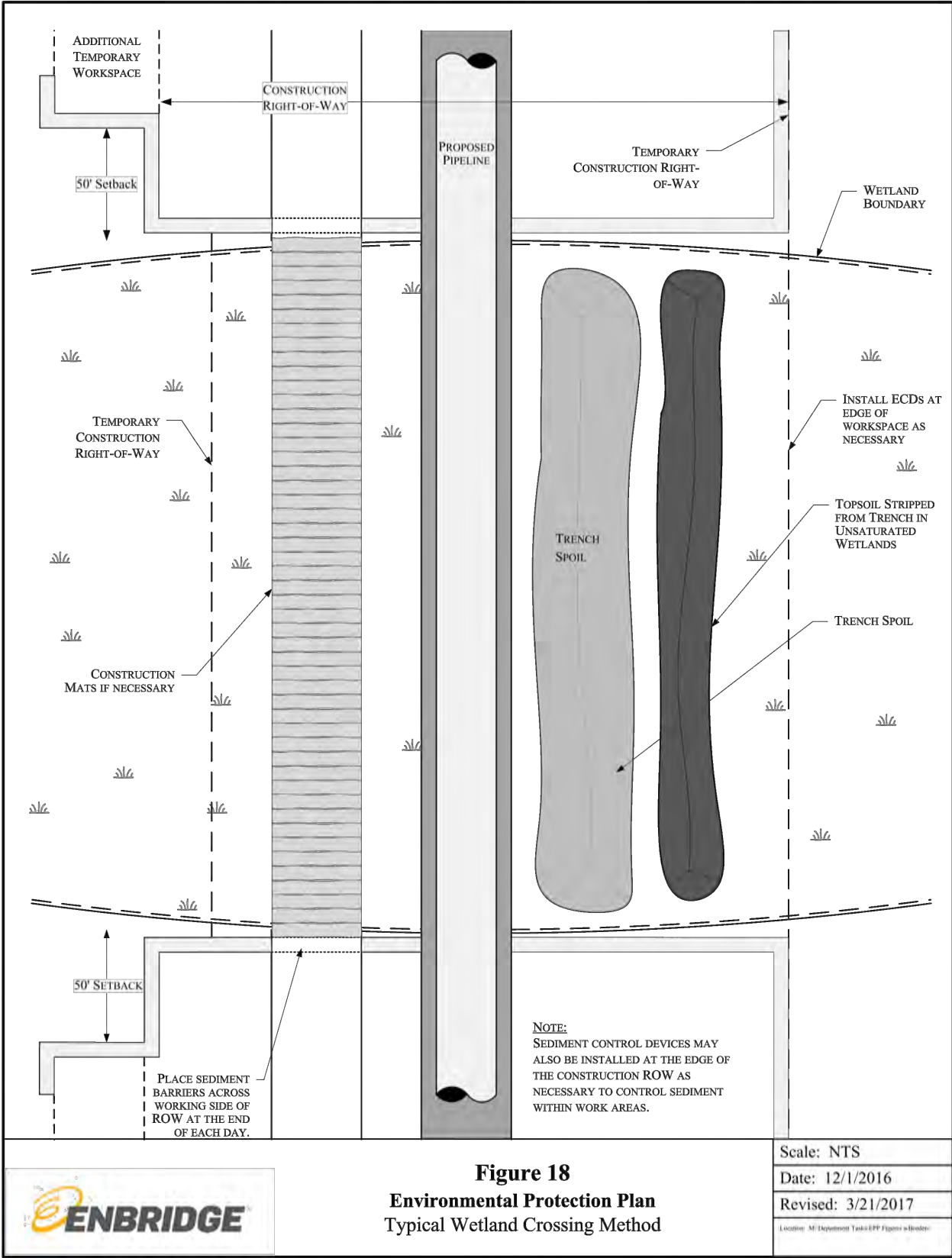
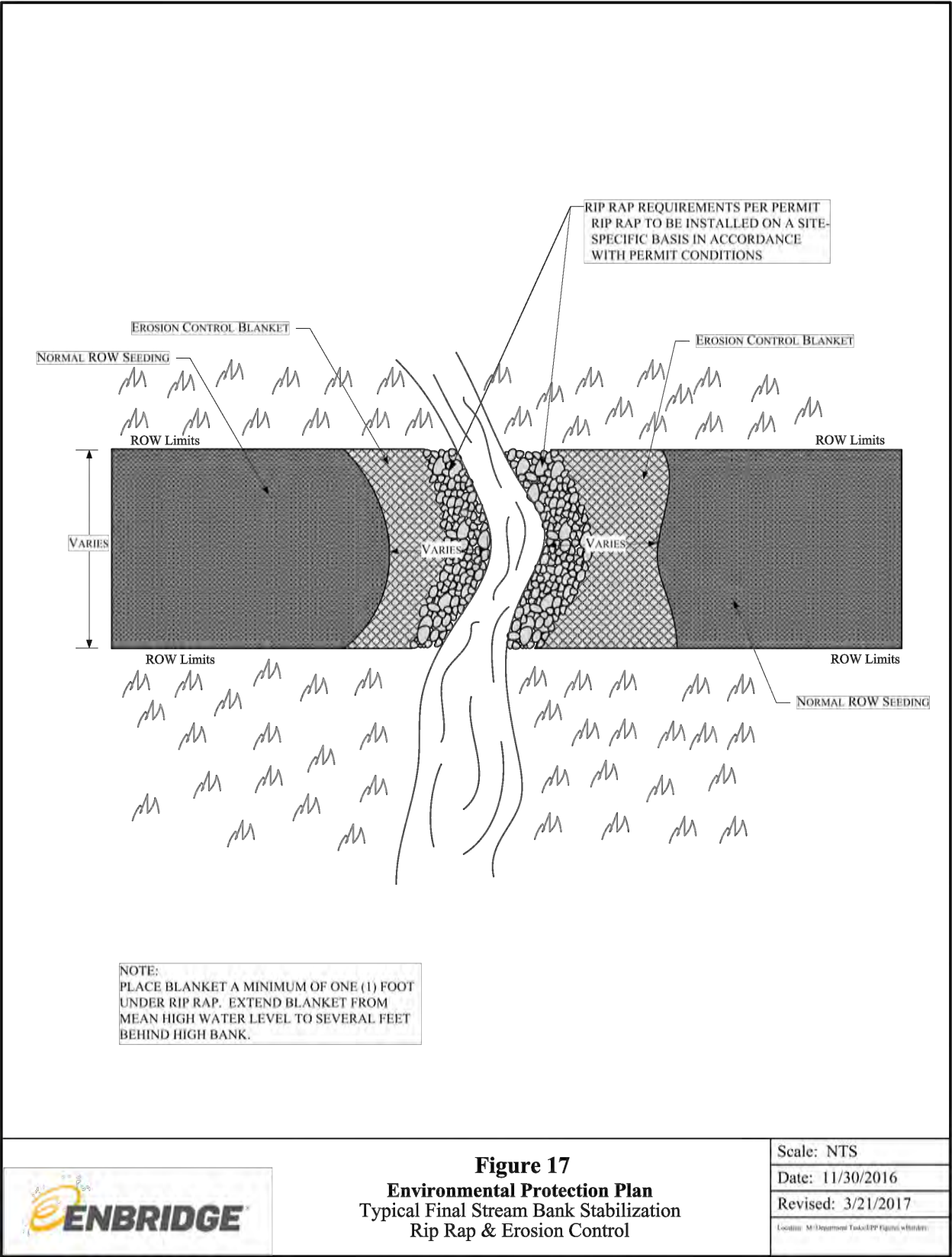
ESCP Details
Line 5 Wisconsin Segment Relocation Project
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GENERAL NOTES AND COMMENTS:

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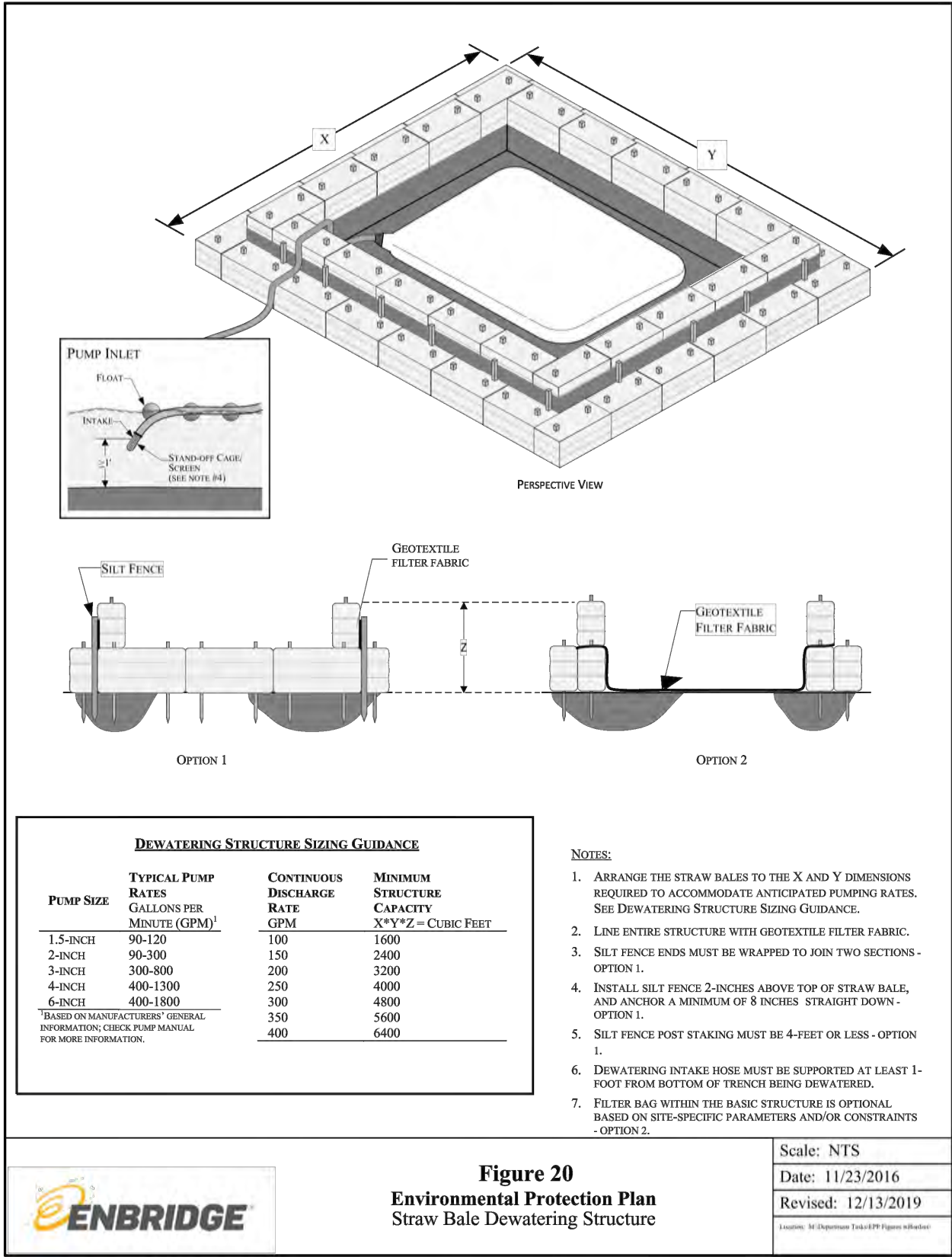
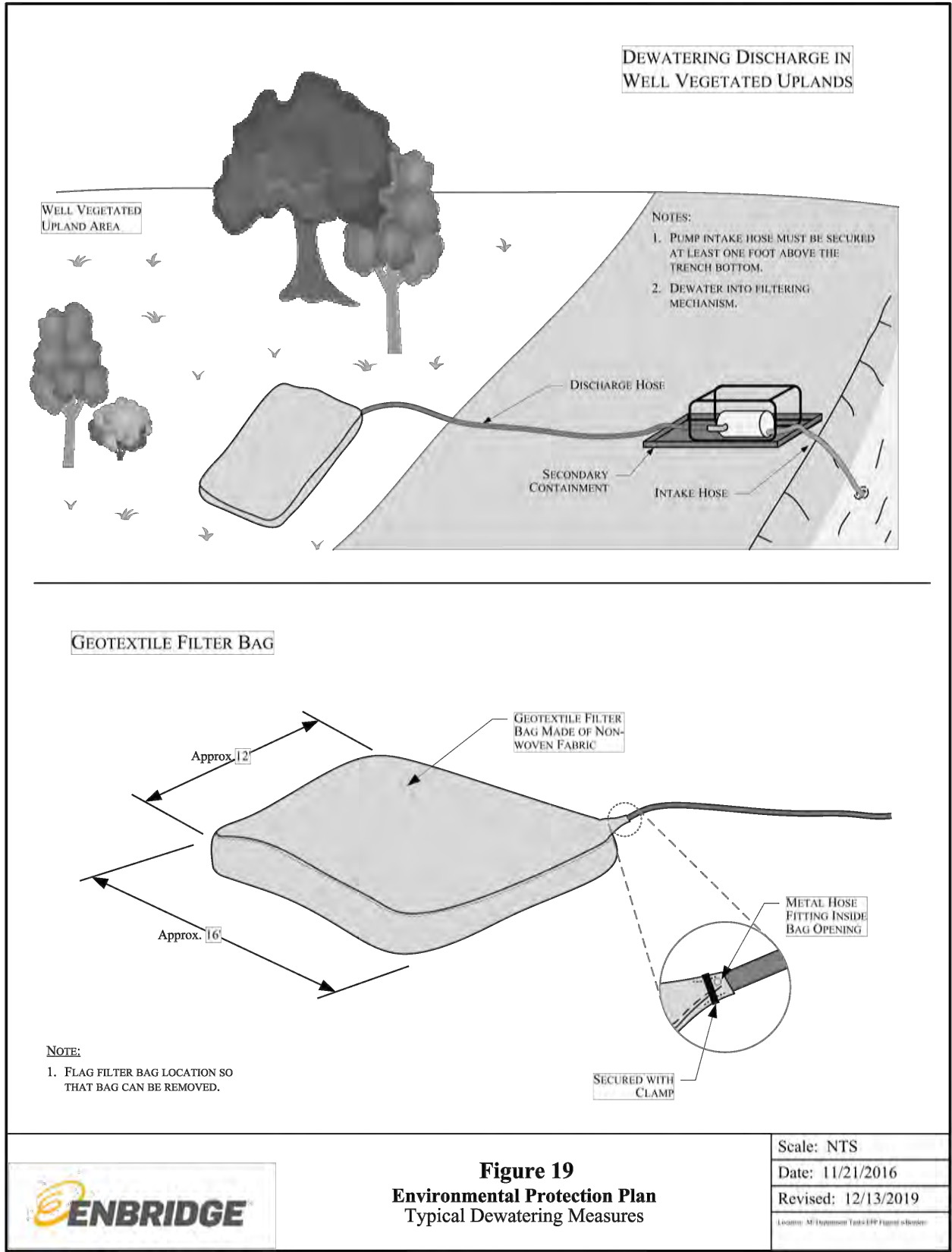
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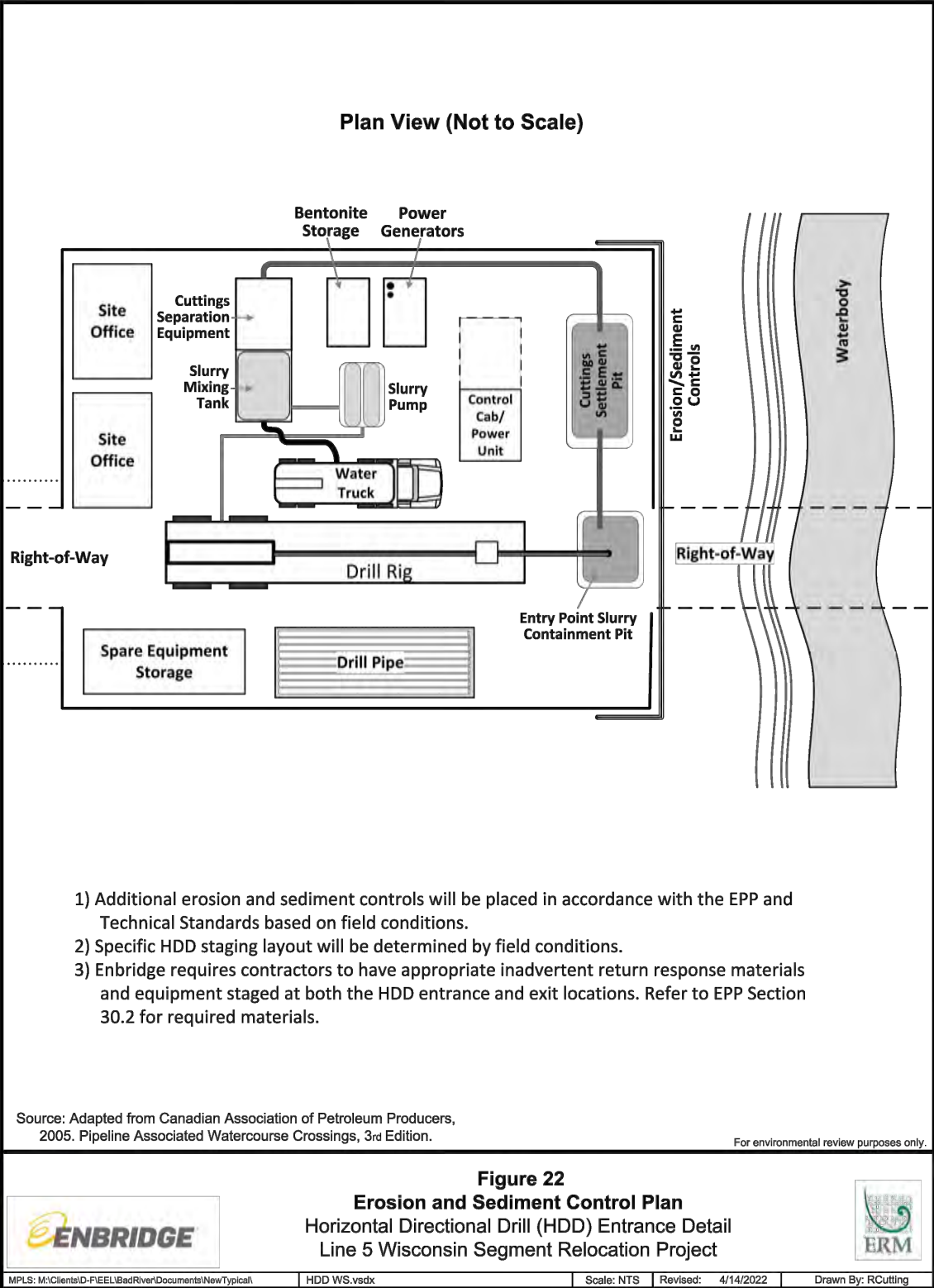
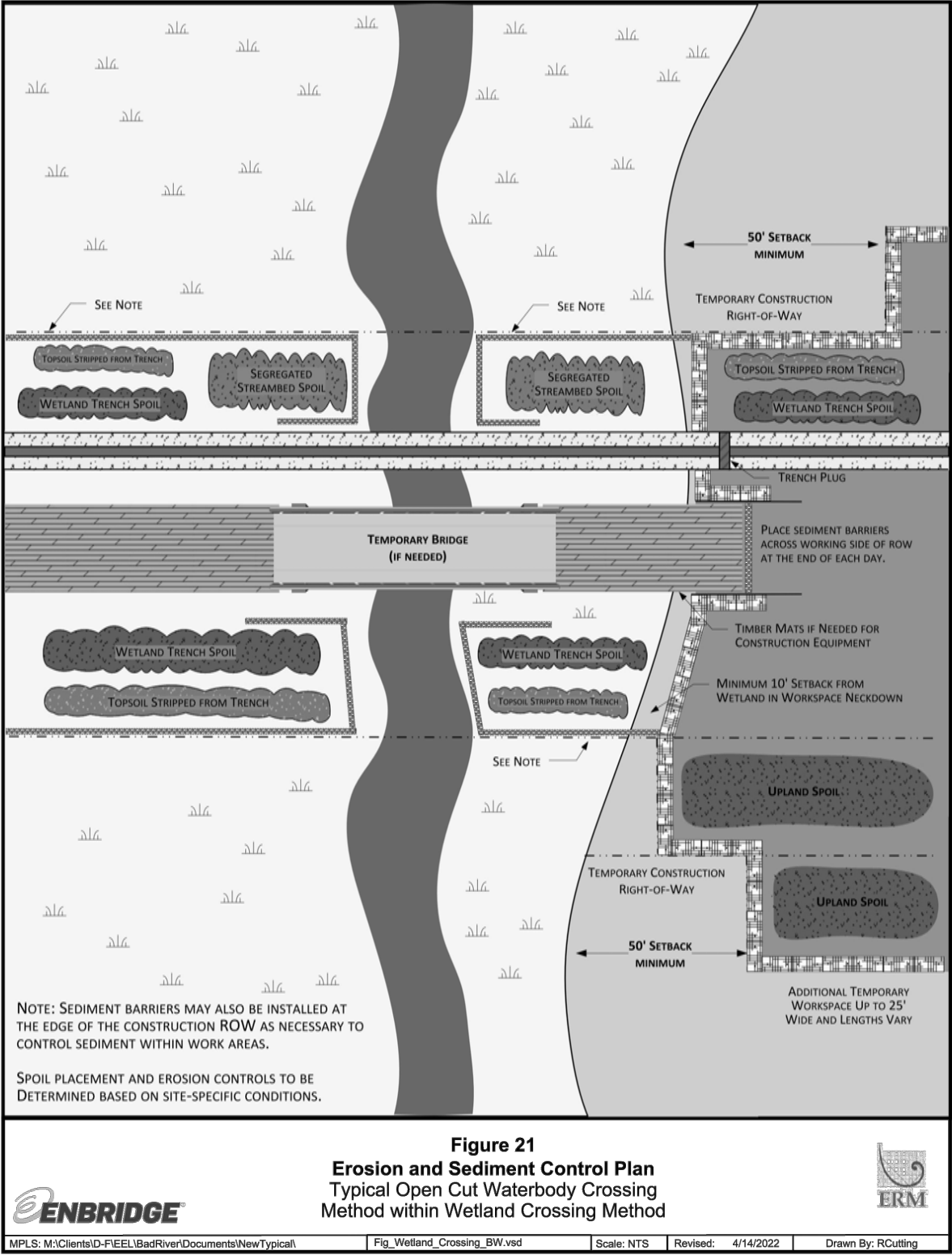


GENERAL NOTES AND COMMENTS:

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
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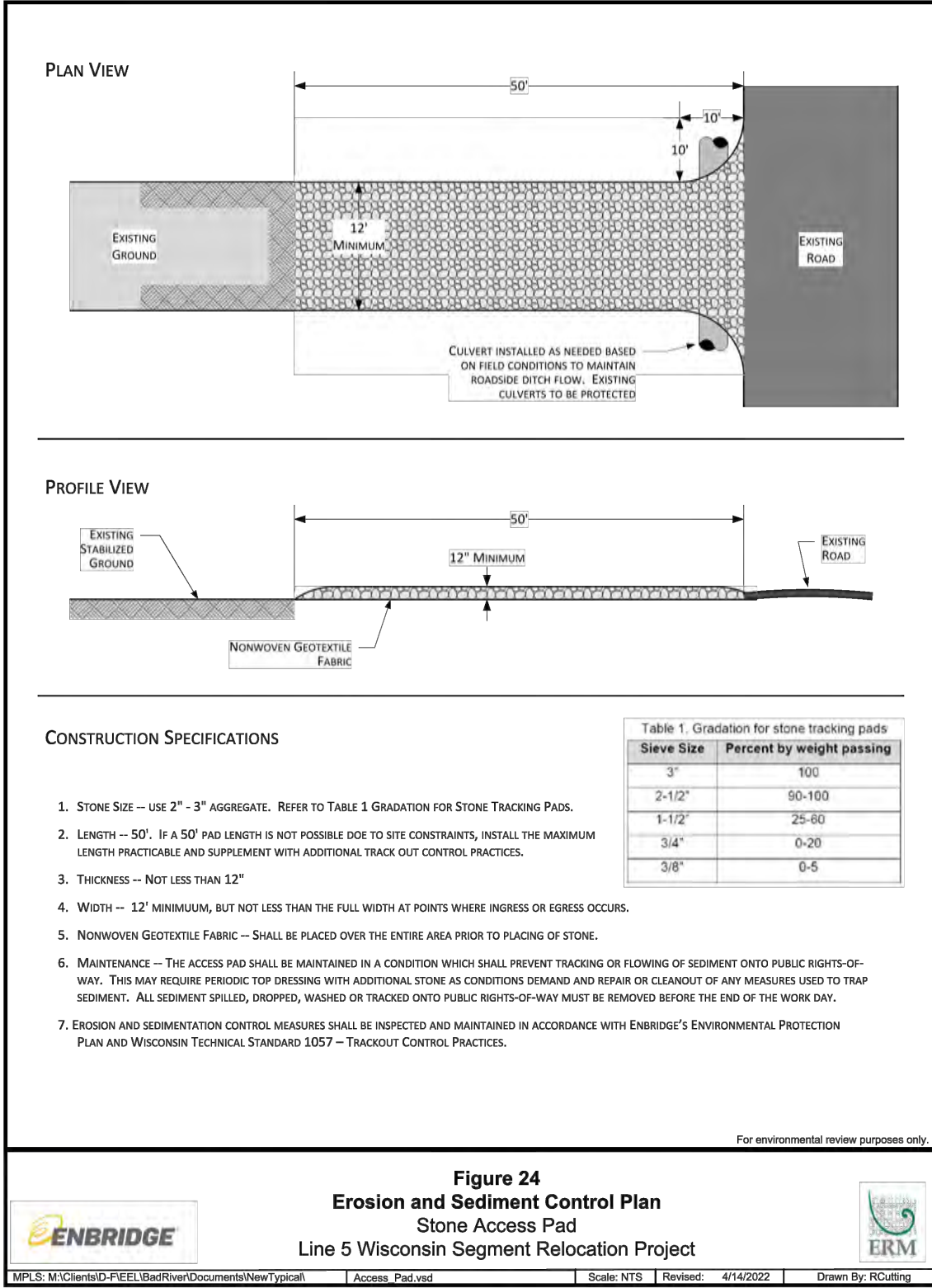
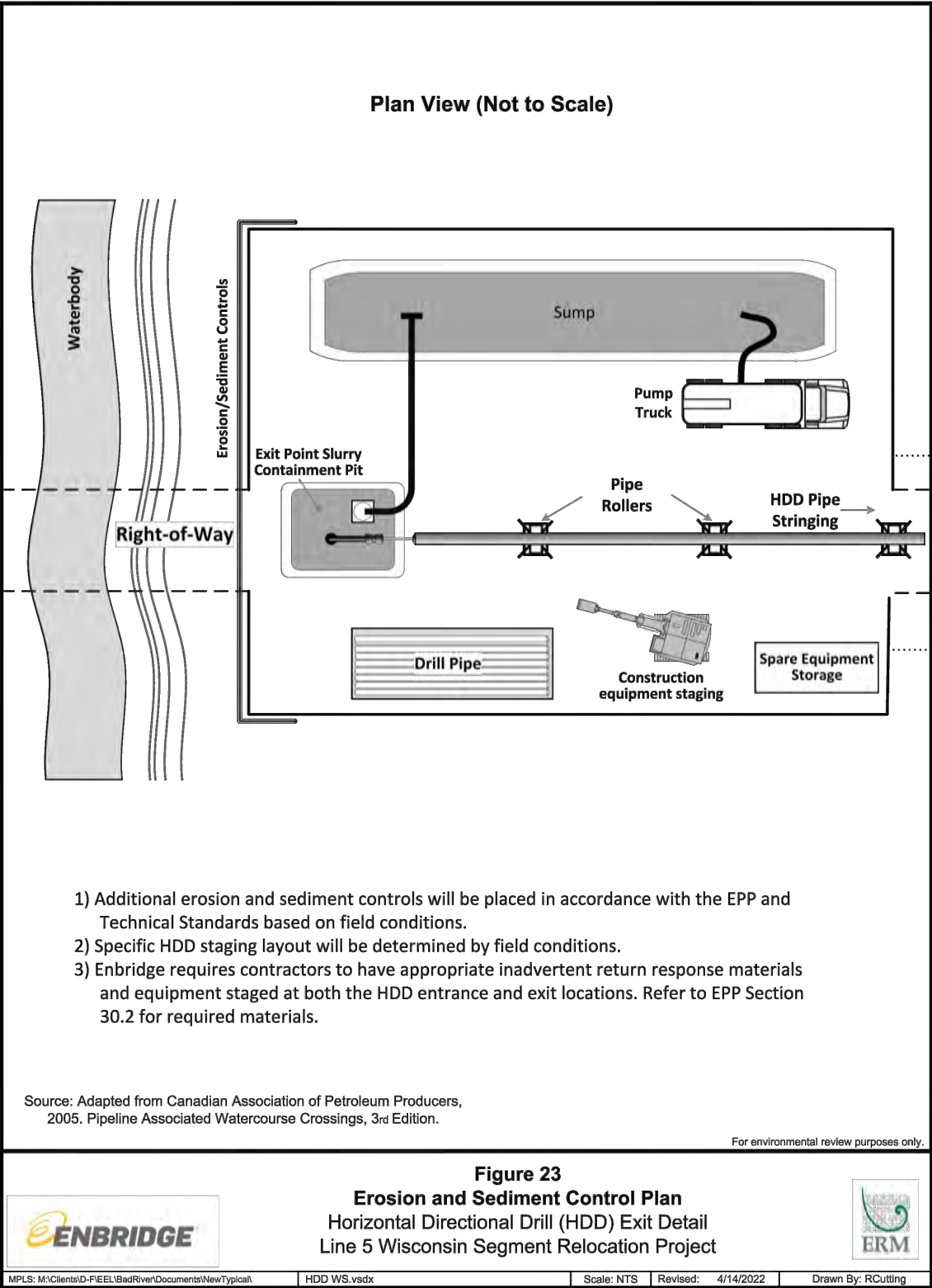


GENERAL NOTES AND COMMENTS:

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GENERAL NOTES AND COMMENTS:

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