

Notice of Intent:

K1 System Launcher/Receiver
Installation Project

Ashland, Massachusetts

MAY 2023

PREPARED FOR
Enbridge

PREPARED BY
SWCA Environmental Consultants

May 5, 2023

Ms. Becca Solomon, Conservation Agent
Ashland Conservation Commission
101 Main St
Ashland, MA 01721

**Re: Notice of Intent, Enbridge K-1 Launcher/Receiver Installation
Parcel 22-43 & 22-42
200 Butterfield Drive
Ashland, Massachusetts**

Dear Ms. Solomon, members of the Conservation Commission:

SWCA Environmental Consultants, on behalf Enbridge (the Applicant), has prepared this Notice of Intent (NOI) application for the installation of a launcher/receiver valve for the K-1 gas pipeline at 200 Butterfield Drive (Parcel 22-43). Additional staging will occur within the Applicant's easement on 158 Butterfield Drive (Parcel 22-42). This maintenance project will allow for the insertion of a robotic inspection device to ensure the continued safe operation of the existing pipeline system and will not increase pipeline capacity or flow. This work will include 479 square feet of impacts to Bordering Vegetated Wetland with additional temporary impacts. While technically exempt from local regulations under the Federal Energy Regulatory Commission (FERC) blanket certificate, the Applicant has complied with the local Bylaw to the greatest extent feasible.

SWCA is submitting one hard copy of this NOI to your office. The Town's portion of the Wetland Protection Act (WPA) filing fee (\$262.50) is enclosed with this application along with the Bylaw Fee (\$500.00), The Commonwealth's portion of the WPA fee (\$237.50) has been submitted electronically via eDEP. We look forward to presenting this project to the Conservation Commission at the next public hearing. If you have any questions regarding this application or would like to set up a site walk, please do not hesitate to contact me at jonathan.shuster@swca.com

Sincerely,



Jonathan Shuster
Project Biologist

**NOTICE OF INTENT:
K1 SYSTEM LAUNCHER/RECEIVER INSTALLATION
PROJECT
ASHLAND, MASSACHUSETTS**

Prepared for

Enbridge

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SWCA Project No.79873

May 2023

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1 INTRODUCTION

SWCA Environmental Consultants (SWCA) is pleased to file this Notice of Intent (NOI) on behalf of Algonquin Gas Transmission, LLC (Algonquin) (the Applicant) in support of the proposed K1 System Launcher/Receiver Installation Project (Project) at a ±5.8-acre parcel located at 200 Butterfield Drive in Ashland, Massachusetts (Assessor's Map 22, Parcel 0043). The parcel is owned by 126 Commerce Park Condominium Trust. The Applicant proposes work in an 0.68-acre workspace (Site) in the north of the property as well as a supplemental staging area within Enbridge's easement on the adjacent lot (Assessor's Map 22, Parcel 0042) 158 Butterfield Drive. The majority of the maintenance work will take place within the Applicant's existing, routinely maintained natural gas pipeline right-of-way (ROW), with a construction staging area located between two paved parking lots near the existing ROW. Figure 1 (Appendix B) depicts the extent of the Project on an U.S. Geological Survey (USGS) topographic map.

The Applicant operates an existing interstate natural gas transmission system pursuant to the Natural Gas Act, 15 U.S.C. § 717 et seq. and the Natural Gas Pipeline Safety Act, 49 U.S.C. § 60101 et seq. As part of its obligation under federal law to maintain the safety and reliability of its facilities, the Applicant is required by U.S. Department of Transportation (USDOT), Pipeline and Hazardous Materials Safety Administration Regulations (Chapter 49 of the Code of Federal Regulations Section 192 Department of Transportation Regulations for "Transportation of Natural and other Gas by Pipeline") to routinely monitor its pipelines for segments which require attention and address them in a timely fashion to protect the public and to ensure the Applicant's compliance with federal pipeline safety regulations. Please note that the work involved is designed to ensure the continued safe operation of the existing pipeline system and does not increase the pipeline's capacity or the amount of natural gas which could flow through it.

As part of its obligation under federal law to maintain the safety and reliability of its facilities, the Applicant is required to conduct regularly scheduled internal inspections of their natural gas pipeline transmission systems using internal inspection tools. This project will allow for a robotic crawler inspection device to be deployed from an above-ground valve proposed within the project footprint. These facility maintenance updates will allow the Applicant to internally monitor up to approximately 2000 linear feet of the existing 6-inch K-1 Pipeline, test and confirm its integrity, and identify any anomalies.

The Project will impact Bordering Vegetated Wetland (BVW; 310 CMR 10.55) and Buffer Zone to the resource area. Permanent impacts to BVW and Buffer Zone have been reduced to the greatest extent feasible and are under 500 square feet. All temporarily impacted areas will be restored to pre-construction conditions following the completion of construction.

This permit has been developed in accordance with the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40) (WPA) and its implementing regulations (310 CMR 10.00 et seq.). This project also has been developed in consideration of the Town of Ashland Wetland Protection Bylaw (Chapter 280 of the Town Codes) and its implementing regulations (Chapter 348 of the Town Codes), though this maintenance work falls under Federal Energy Regulatory Commission's (FERC's) blanket certificate procedures. FERC's blanket certificate procedures, which allow for the maintenance of natural gas transmission facilities that are appurtenant to existing facilities that were originally built under a FERC certificate, without the requirement of proceeding through a new certificate process. Because the Applicant's planned work falls within this federal regulatory framework, local permits are not applicable.

A completed "WPA Form 3" is included in Appendix A as well as copies of the checks for the Town filing fees. One hardcopy and an electronic copy of this NOI are being submitted to the Ashland Conservation Commission (Commission), with an electronic copy also sent to the Massachusetts Department of Environmental Protection (MassDEP) using the eDEP filing system. The Project is proposed as a Category 2J, with a total fee of \$500 for the proposed work. The Town's portion of the fee

is \$262.50 and is enclosed with this NOI, along with the local filing fee of \$500.00. The Commonwealth's share of \$237.50 is submitted with the eDEP Wetlands Transmittal Fee form through the eDEP filing system. Documentation of the payment of fees is provided in Appendix A.

2 SITE DESCRIPTION

The 5.8-acre parcel containing the workspace is located at the terminus of Butterfield Drive, east of Pond Street, north of Sewell Street. The parcel consists almost entirely of impervious developed area, including a paved parking area surrounding a commercial condominium structure. There is a swale along the northern periphery of the parcel which drains towards a larger wetland area to the northeast and east of the site. These wetlands, mapped by the MassDEP (MassGIS, 2005), wrap around the periphery of the site to the east and south, at the limit of the pavement, with an additional wetland area north of the site. There is a Town-owned parcel to the north of the Site with a recreational trail. Beaverdam Brook, a perennial stream, is approximately 200 feet east of the work area and flows south to north.

The 0.68-acre workspace proposed by the Applicant is in the north of the 200 Butterfield Drive lot as well as a small portion of the adjacent 158 Butterfield Drive lot. SWCA notes that the swale area, jurisdictional resource areas, and 100-foot buffer zone are entirely on the 200 Butterfield Drive lot and do not intersect the 158 Butterfield workspace. A forested area immediately to the north includes white pine (*Pinus strobus*), red maple (*Acer rubrum*), aspen (*Populus sp.*), and red oak (*Quercus rubra*).

The Applicant's existing pipeline ROW, where the BVW and buffer zone impacts will occur, exhibits recent and historic alterations consistent with pipeline maintenance and installation. These disturbances include ongoing vegetation management in the vicinity of the pipeline as well as soil disturbance and possible deposition of soils not native to the site in the vicinity of the pipeline, likely originating from the existing pipeline's installation.

SWCA reviewed the Federal Emergency Management Administration (FEMA) Floodplain Insurance Rare Maps (FIRMs). Although there is Zone A 100-year floodplain immediately north and east of the workspace, the proposed Project does not overlap with the Zone A 100-year floodplain (FEMA, 1981). Figure 4 in Appendix B depicts the FEMA mapping.

2.1 Soils

According to the Web Soil Survey (Natural Resources Conservation Service [NRCS] 2019), two soil types, including 52 A - Freetown Muck (0 to 1 percent slopes) and 656 - Udorthents – Urban land complex, are mapped within the Project area. 656 – Udorthents – Urban land complex, mapped in the western portion of the work area, is not listed as hydric. 52A Freetown Muck (0 to 1 percent slopes), mapped in the eastern portion of the Site, is classified as very poorly drained.

3 REGULATED RESOURCE AREAS

SWCA reviewed multiple mapping resources available from the Massachusetts Geographic Information System (MassGIS) and others including, but not limited to, MassDEP mapped wetlands and hydrologic connections, hydrography, aerial imagery, FEMA Flood Insurance Rate Maps (FIRMs), USGS topographic quadrangles, potential and certified vernal pools, NRCS soils, and Natural Heritage & Endangered Species Program (NHESP) rare species habitat mapping among others.

SWCA completed site visits on March 1, 2023 and April 28, 2023 to verify and delineate the wetlands and streams. SWCA utilized pink, fluorescent polyvinyl surveyor flagging with “Wetland Delineation” printed in black to demarcate the boundaries of the jurisdictional areas. Due to access limitations, only those areas within the potential workspace were delineated. SWCA also reviewed accessible areas within the Applicant’s existing ROW to the east and geolocated the proximal bank and Mean Annual High Water (MAHW) of the Beaverdam Brook. Each flag was assigned a unique alphanumeric code in the field. The site plans in Appendix C depict the extents of the on-site resource areas. Representative photographs are included in Appendix D. The following sections describe the on-site regulated resource areas.

3.1 Resource Area Delineation Methodology

SWCA performed a delineation using a multiple parameter method approach following the Massachusetts WPA (M.G.L. c. 131 § 40) and its implementing Regulations (at 310 CMR 10.00 *et seq.*), the methodology described in *Massachusetts Handbook for Delineation of Bordering Vegetated Wetlands* (MassDEP 2022), and the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory 1987) and its supplement, the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0* (U.S. Army Corps of Engineers [USACE] 2011). In accordance with 310 CMR 10.55(2)(c)1., the flagged vegetated wetland boundaries include all areas “within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist.”

This approach emphasizes the use of hydrophytic vegetation in combination with the presence of either hydrology and/or hydric soils. Under the WPA, wetland indicator ratings for vegetation are defined under the *National List of Plant Species That Occur in Wetlands* (Reed 1988) as well as the vegetation species criterion described in the WPA. It should be noted that some wetland indicator ratings for vegetation have been recently revised for wetlands regulated by the USACE under *The National Wetlands Plant List*: (USACE 2020).

The delineation also included the examination of soils and the methodology described in the MA DEP Delineation Handbook. Identification of hydric soil as an indicator of wetland hydrology followed criteria provided in *Field Indicators of Hydric Soils in the United States, Version 8.2* (U.S. Department of Agriculture [USDA] 2018), *Field Indicators for Identifying Hydric Soils in New England, Version 4* (New England Hydric Soil Technical Committee 2020), as well as the USACE Regional Supplement. In accordance with the handbook, the flagged wetland boundaries include all areas which contained a majority of hydrophytes (i.e., $\geq 50\%$) and the presence hydric soils, with consideration given to other indicators of wetland hydrology when present.

SWCA examined soils, evidence of hydrology, and vegetation to identify limits of the federal and state wetlands. Hydric soils and hydrophytic vegetation were able to be evaluated since site investigations occurred within minimal snow on the ground and the soil was sufficiently thawed during the March 1 visit. During that visit, senescent herbaceous wetland and upland vegetation was still visible and woody plants were identifiable. Evidence of hydrology was also able to be observed. Wetland resource boundaries were confirmed on the following site visit on April 28.

SWCA delineated wetlands within the proposed Project workspace. Wetland boundaries outside this area were estimated from within the workspace bounds (including the northern boundary of the swale which is off-site).

3.2 Inland Bank

Inland Bank is the resource area which confines waterways and water bodies. For streams, it extends from Mean Annual Low Water (MALW) to MAHW. As set forth in 310 CMR 10.54(2)(a)-(c), Inland Bank is defined as, “the portion of the land surface which normally abuts and confines a water body. It occurs between a water body and a BVW and adjacent floodplain, or in the absence of these, it occurs between a water body and an upland.

There was no Bank associated with the delineated swale which lacked any defined channel or anywhere within the Project Site. SWCA did investigate and locate the Bank of Beaverdam Brook within the Applicant’s existing ROW greater than 200 feet east of the proposed workspace. Bank was coincident with MAHW of this perennial stream in this location. SWCA demarcated the bank with two blue plastic flags labelled S1-100 and S1-101 and geolocated the Bank with a Global Positioning Device (GPS) capable of sub-meter accuracy. Inland Bank is afforded a 100-foot Buffer Zone regulated by both the WPA and Bylaw, with a 25-foot No Disturbance Zone under the Bylaw. See Section 3.8 Regarding Riverfront Area, which extends from the MAHW.

We noted that the stream varied in width from 6 to 12 feet wide and varied in depth from three to eight inches deep with a silty bottom with pockets of substantial leaf litter.

3.3 Bordering Vegetated Wetlands

The boundaries of the on-site wetlands were determined in accordance with the *U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual* (Environmental Laboratory 1987), the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0)* (USACE 2011), as well as in accordance with the WPA and 310 CMR 10.55(2)(c) and further described in MassDEP’s *Delineating Bordering Vegetated Wetlands Under the Massachusetts Wetlands Protection Act* (1995). The delineated wetlands are depicted on the site plans found in Appendix C as well as within Figure 2.

As set forth in 310 CMR 10.55(2)(a-c), a BVW is defined as areas where the soils are saturated and/or inundated such that they support a predominance of wetland indicator plants and the BVW boundary is determined as “the line within which 50% or more of the vegetational community consists of wetland indicator plants and saturated or inundated conditions exist.” The Bylaw incorporates the definition of BVW as defined in the WPA. BVWs are afforded a 100-foot Buffer Zone based on the WPA and Bylaw and a 25-foot No Disturbance Zone under the Bylaw.

SWCA identified and delineated one BVW area (Wetland W1) within the vicinity of the proposed work. Additional wetlands were noted further outside and adjacent to the workspace, beyond the areas accessible for the delineation. These areas appeared to be largely coincident with the MassDEP wetland mapping (MassGIS, 2005) and are estimated on the plans and figures with associated buffers where relevant.

Flags were placed at the jurisdictional transition from wetland soils, wetland vegetation, and hydrology to upland soil, upland vegetation, and a lack of hydrology. Completed USACE Wetland Determination forms used to substantiate the delineation can be found in Appendix D. While MassDEP has developed BVW data forms, the USACE forms provide more detailed information. USACE forms in this submission have been modified and/or noted where discrepancies between USACE and MassDEP delineation methodologies and definitions occur.

Wetland W1 is a palustrine emergent (PEM) wetland within the swale sloping gently west to east, towards a larger PEM and palustrine forested (PFO) wetland complex offsite (Cowardin, 1979). Wetland W1 was delineated with fifteen pink and black plastic flags labelled W1-100 through W1-113, including an additional flag between W1-103 and W1-104, labelled W1-103A. SWCA notes that the northern limit of the swale was off the property and the extent of the swale was estimated and is not relevant to the project's wetland and buffer zone impacts described herein.

The W1 BVW system was identified and delineated in the northern portion of the Project area (see site plans). The wetland consists of a PEM community with some smaller encroachment by shrub species. Dominant vegetation includes black elderberry (*Sambuca nigra*), silky dogwood (*Swida amomum*), willow (*Salix* sp.), common reed (*Phragmites australis*), sensitive fern (*Onoclea sensibilis*), goldenrods (*Solidago* spp.), reed canary grass (*Phalaris arundinacea*), purple loosestrife (*Lythrum virgatum*), Japanese knotweed (*Fallopia japonica*), and fox grape (*Vitis labrusca*). Indicators of hydrology included standing surface water, high water table, saturation, inundation visible on aerial imagery, water-stained leaves, drainage patterns, and geomorphic position. Indicators of hydric soils included loamy gleyed matrix.

3.4 Isolated Vegetated Wetlands

Isolated Vegetated Wetlands (IVWs) are described as non-tidal, inland freshwater wetlands, with no permanent surface water connection to waters of the United States (WOTUS). IVWs have wetland soil, hydrology and dominant wetland vegetation. Although small Isolated Vegetated Wetlands (IVW) are not regulated under the Massachusetts Wetlands Protection Act, they are regulated under the U.S. Army Corps regulations, but do not receive a Buffer Zone under federal jurisdiction. There were no IVWS on Site.

3.5 Buffer Zone

The WPA regulates a 100-foot Buffer Zone associated with Inland Bank and BVW. The Town Bylaw further regulates the 100-foot Buffer Zone as an adjoining resource area as well as regulates a 25-foot No Disturbance Zone from jurisdictional areas, including BVW. No performance standards are set forth for Buffer Zone under the WPA; however, the Bylaw has enacted performance standards for the 100-foot Buffer Zone under 348-3.B(3) of the regulations, largely regarding the No Disturbance Zone. The 100-foot Buffer Zone within the limit of work is largely developed and those areas that are vegetated are maintained right-of-way. Various indicators of anthropogenic alterations are present throughout the 100-foot Buffer Zone, and plant species within the 25-foot buffer include many invasive species.

3.6 Land Under Water Bodies and Waterways

As defined in 310 CMR 10.56(2), "Land Under Water Bodies and Waterways (LUWW) is the land beneath any creek, river, stream, pond, or lake. Said land may be composed of organic muck or peat, fine sediments, rocks, or bedrock." LUWW occurs within the Banks/MAHW of the perennial streams, such as the Beaverdam Brook, off-site to the east of the Project. The Bylaw has incorporated the WPA definition of LUWW. There was no LUWW within the work area.

3.7 Land Subject to Flooding

3.7.1 Bordering Land Subject to Flooding

Bordering Land Subject to Flooding (BLSF) is defined as, “an area with low, flat topography adjacent to and inundated by flood waters rising from creeks, rivers, streams, ponds, or lakes, It extends from the Banks of these waterways and water bodies; where a BVW occurs, it extends from said wetland. The boundary of BLSF is the estimated maximum lateral extent of flood waters which will theoretically result from the statistical 100-year frequency storm.” BLSF extent is determined by the reference to the most recently available flood data prepared under the National Flood Insurance Program (NFIP), which is presumed to be accurate.

Typically, BLSF coincides with the 100-year flood zone (i.e., the area inundated by the 1% chance for annual flood). As part of evaluating resource areas at the site, SWCA reviewed the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel Numbers 25017C0631F and 25017C0518F that FEMA Zone A, without a specified base flood elevation (BFE), is located off-site to the north and at the periphery of the property to the east, outside the limit of work. This BLSF is depicted in Figure 4 (FEMA 2014;. Appendix B).

SWCA consulted Ashland Conservation staff in a pre-filing call regarding the lack of BFE at this location. Given FEMA’s depiction of floodplain extent is well outside the workspace, it was recommended to SWCA that this filing be submitted with the Zone A approximation and without further hydrologic analysis to determine the precise BFE.

3.7.2 Isolated Land Subject to Flooding

As defined in WPA 310 CMR 10.57(1)(b), Isolated Land Subject to Flooding (ILSF) is an “isolated depression or closed basin without an inlet or outlet. It is an area which at least once a year confines standing water to a volume of at least 0.25 acre-feet and to an average depth of six inches.”. ILSF does not have a Buffer Zone under the WPA. There are no isolated depressions or confined basin areas within the Project Site and therefore no ILSF.

3.8 Riverfront Area

Perennial rivers are afforded a 200-foot RFA under the WPA and Bylaw. As set forth in 310 CMR 10.58(2)(a), the 200-foot RFA is defined as “the area of land between a river's MAHW line and a parallel line measured horizontally.” The Bylaw has incorporated the WPA definition of RFA.

Beaverdam Brook, to the east of the workspace, is a perennial stream according to 310 CMR 10.58(2)(a)1.a. which states, “A river or stream shown as perennial on the most recent USGS or more recent map by [MassDEP] is perennial,” since it is depicted as a solid blue line on the most recent USGS Topographic Quadrangle (USGS 2021). Blue flagging S1-100 and S1-101 were placed at the MAHW within the accessible ROW, east of the Project Site and geolocated via sub-meter GPS. This MAHW extent and resulting 200-foot RFA extent is shown in Figure 2. Note that RFA at the eastern extremity of the 200 Butterfield Drive parcel is estimated off the available DEP linear wetland feature for the stream and ortho-imagery.

RFA is approximated to just extend to the easternmost periphery of the paved area of the subject site. All excavation, ground disturbance and other work is 250 feet from the approximated MAHW and the wetland impact area described below is approximately 350-400 feet from the MAHW of the stream. Since

work is not within RFA, the 1.5X wetland fee multiplier was not applied to the DEP filing fee. There is approximately 480 square feet of RFA in the eastern periphery of the Site, outside of the work area.

Off-site, within the ROW, the 200-foot RFA consists of the phragmites-dominant PEM wetland.

4 OTHER ENVIRONMENTAL CONSTRAINTS

4.1 WPA/Bylaw Resource Areas

The only regulated resource areas that occur within the work area include BVW, 100-foot Buffer Zone, and 25-foot Vegetated No Disturbance Zone. The furthest western extent of 200-foot RFA is located just outside the eastern most extent of the workspace. Similarly, the extent of estimated BLSF is in the eastern portion of the parcel but not within the workspace itself. The site does not contain any other resource areas regulated under the WPA or Bylaw including ILSF, Isolated Wetlands, or other resource areas.

4.2 Vernal Pools

SWCA biologists reviewed available MassGIS datasets to determine if the Project is located within or near mapped Certified Vernal Pools or Potential Vernal Pools (PVPs). There are no certified or potential vernal pools mapped within or near the Project according to available MassGIS data (MassGIS 2023, 2013). In addition, no other areas exhibiting the hydrologic capacity to be vernal pools were observed during the site visit.

4.3 Rare Species Habitat

SWCA reviewed the MassGIS database to determine if the existing parcel was located within or adjacent to areas designated as NHESP Priority Habitats of Rare Species (Priority Habitat) or Estimated Habitats of Rare Wildlife (Estimated Habitat). There is no mapped Priority Habitat or Estimated Habitat on or adjacent to the Project Site (MassGIS 2021a, 2021b).

4.4 Areas of Critical Environmental Concern

SWCA reviewed MassGIS data layers to determine if the Project is located within any Areas of Critical Environmental Concern (ACEC). An ACEC is a designated area in Massachusetts that receives special recognition because of the quality, uniqueness, and significance of its natural and/or cultural resources. ACECs are identified so that they may be protected and maintained. SWCA determined that there are no ACECs within or near the site (MassGIS 2009).

4.5 Outstanding Resource Waters

SWCA reviewed the MassGIS database to determine if the Project was located within Outstanding Resource Waters (ORWs). ORWs are watershed areas that have been classified as such under the Massachusetts Surface Water Quality Standards and are areas that contain surface waters and their tributaries, including certain wetlands, that have been designated for protection based on their outstanding socio-economic, recreational, ecological and/or aesthetic values. These waters have been identified so that the quality of the waters may be protected and maintained. There are no ORWs located within or adjacent to the proposed project area (MassGIS 2010).

5 PROPOSED WORK & IMPACTS

As noted in Section 1.0, the Applicant is required to routinely monitor its pipelines for segments which require attention and address them in a timely fashion to protect the public and to ensure the Applicant's compliance with federal pipeline safety regulations. The Applicant proposes to install a valve for launching and retrieving a robotic inspection device for a section of the K-1 System pipeline in Ashland. These facility maintenance updates will allow the Applicant to internally monitor up to approximately 2000 linear feet of pipeline to test and confirm its integrity, and identify any anomalies. The valve and pipe fittings will be installed within a concrete foundation with a larger crushed stone pad and ultimately surrounded by new chain-link fence. A larger temporary crushed stone construction access is proposed with a temporary concrete wash station and soil stockpile area (see Plan).

In order to install the new valve and pipe the Applicant will fabricate the tie-in section with a single above grade valve. Following that, approximately 20-40 feet of the existing K1 system pipeline will be excavated and exposed. During the pre-planned outage window when the gas through the K1 System will be temporarily suspended, the Applicant will remove the existing section of the K1 System pipeline and replace it with the newly outfitted section of pipeline. The new section of the pipeline will then be tied-in to the new aboveground valve. The new section of pipeline will be sandblasted, inspected and coated. The below grade piping will then be padded and backfilled to the required depth of cover. The aboveground components will be supported by a concrete pad. A new chain-link fence will be installed, including gates for accessing the pipeline equipment. Within the chain-link fenced area, the Applicant will utilize crushed stone approximately 20-feet by 20-feet. In order to consistently and safely access the new pipeline equipment, the Applicant will install a crushed stone access path leading to the gate (see Project Plans). The Project will take approximately 3 to 4 weeks to complete. The Applicant does not anticipate any tree trimming or clearing associated with the Project. Dewatering, if required, will be implemented per the Plan specifications.

As a result of the crushed stone fenced area and the crushed stone access path, the Project will permanently impact approximately 479 square feet of BVW, of which ±357 square feet are pervious and ±122 square feet are impervious. There are temporary impacts of 3,840 square feet to be restored following work.

Following the completion of the Project, temporary BVW impacts will be restored with an appropriate native seed mix and mulch, and Buffer Zone and 25-foot No Disturbance Zone impacts will be restored to pre-construction conditions utilizing erosion control seed mix and mulch. Best management practices (BMPs) are described below in Section 6. Table 1 summarizes the extent of proposed impacts within each resource area.

Table 1. Resource Area Impact Table

Disturbance Type	Permanent (SF)	Temporary (SF)	Total Area on Site (SF)
BVW	479 (122 impervious)	3,840	4,317
25-foot No Disturbance Zone	553 (302 impervious)	3,879	11,478
100-foot Buffer Zone	553 (302 impervious)	6,328	15,570
RFA	0	0	480
BLSF	0	0	0

* Impacts within 25-foot NDZ are included within the 100-foot Buffer Zone

5.1 Bordering Vegetated Wetland Impacts

Temporary and permanent impacts to BVW are required for the proposed Project. In order to safely and efficiently complete the Project, approximately 3,840 square feet of temporary BVW impacts will be required for workspace. Once the construction has been completed, temporarily impacted areas will be restored to their pre-construction condition, including restoration of grades. Additionally, the impacted area will be reseeded with a native wetland seed mix, such as New England Wetland Plants *Erosion Control Mix for Moist Sites* and mulched with straw.

A total of ±479 square feet of permanent impacts to BVW are proposed for the construction of the new aboveground facility area supporting the launcher and receiver equipment. These impacts are necessary as the existing pipeline runs through the delineated wetland and the tie-in in this location therefore must impact wetland. Approximately 122 square feet of the BVW impacts are impervious and ±357 are pervious.

The WPA Regulations provide specific guidance for exemption from replication under 310 CMR 10.55(4)(c). Specifically, “[...] the issuing authority may issue an Order of Conditions permitting work which results in the loss of a portion of Bordering Vegetated Wetland when;

1. said portion has a surface area less than 500 square feet;
2. said portion extends in a distinct linear configuration ("finger-like") into adjacent uplands; and
3. in the judgment of the issuing authority it is not reasonable to scale down, redesign or otherwise change the proposed work so that it could be completed without loss of said wetland”

We do not propose wetland replication for this project as the above criteria can be demonstrated. In the case of this project, impacts are less than 500 square feet and those impacts occur within a finger-like projection into adjacent uplands. The project has been minimized to the greatest extent feasible.

Moreover, we note the disturbed nature of the impact area within the wetland, which is dominated by invasive species such as phragmites and Japanese knotweed. The swale itself appears to be an anthropogenic artifact from the original construction of the development on Site. Replication of the modest wetland impact would be difficult to achieve on site due to the narrow geometry of the swale and lack of suitable areas that can be excavated due to proximity of the buried pipeline.

5.2 Buffer Zone Impacts

Both temporary and permanent impacts to the buffer zones on-site are necessary to complete the proposed Project. The following subsections detail the proposed impacts to each buffer zone.

5.2.2 100-foot Buffer Zone

Approximately 6,328 square feet of temporary impacts to the 100-foot Buffer Zone are anticipated. The staging area outside of the existing ROW is located adjacent to two paved parking areas and consists of semi-landscaped and vegetated areas. The staging area will only serve as a workspace area to store materials, personal vehicles, construction equipment and/or soil stockpiles, if needed, and there will be no ground excavation in this area. The workspace within the Applicant’s existing ROW is previously disturbed and regularly maintained, frequently subject to minor disturbances associated with routine pipeline maintenance. Following construction, temporarily impacted areas will be restored to their pre-

construction conditions including restoration of grades, seeding with a native upland seed mix and/or a stabilization mix as needed, and straw mulch.

Permanent impacts to the 100-foot Buffer Zone include ± 251 square feet associated with the crushed stone access path and the southerly portion of the crushed stone pad. There are 302 square feet of impervious impacts proposed associated with concrete features as shown in the Plan. These areas of permanent impact are also within the 25-foot No Disturbance Zone. These impacts are necessary to safely complete the tie-in to the existing pipeline and replace the vegetated slope of the swale area with a crushed stone access facilitating safe and consistent access for equipment and personnel.

5.2.2 25-foot No Disturbance Zone

Approximately 3,879 square feet of temporary impacts to the 25-foot No Disturbance Zone are anticipated. Staging areas will largely be within existing pavement though areas of temporary impact include semi-landscaped and vegetated areas within the limit of work that may serve as staging and/or experience surficial disruption during construction. Following construction, temporarily impacted areas will be restored to their pre-construction conditions including restoration of grades, seeding with a native upland seed mix and/or a stabilization mix as needed, and straw mulch.

Similar to the Buffer Zone impacts (which are inclusive of the 25-foot No Disturbance Zone), permanent impacts to the 25-foot No Disturbance Zone include ± 251 square feet associated with the crushed stone access path and the southerly portion of the crushed stone pad as well as the 302 square feet of impervious impact. These impacts are necessary to safely complete the tie-in to the existing pipeline and replace the vegetated slope of the swale area with a crushed stone access facilitating safe and consistent access for equipment and personnel.

5.3 Riverfront Area Impacts

There are no anticipated temporary or permanent impacts to RFA for the project. RFA intersects the parcel in the far east of the workspace where no ground disturbance is occurring.

5.4 Land Subject to Flooding

There are no anticipated temporary or permanent impacts to BLSF for the project. BLSF, depicted as FEMA ZONE A in the attached Appendix C, intersects the parcel in the far east of the workspace where no ground disturbance is taking place and is also located off-site to the north.

6 AVOIDANCE, MINIMIZATION, AND MITIGATION

The Applicant has avoided and minimized impacts to the maximum extent practicable while also being able to achieve the project goals. Where impacts to regulated resource areas could not be avoided, we propose proper BMPs to ensure stabilization and revegetation promptly upon project completion.

6.1 Construction Schedule

The construction duration for the Project is approximately three to four weeks, depending on site conditions and weather. The construction of the Project must be coordinated closely with a gasline outage window for the K1 System, to be determined soon. Once identified, the project schedule will be relayed to the Commission.

6.2 Best Management Practices

Where work is proposed within or in proximity to BVW and Buffer Zone, the Applicant proposes to protect these areas and downgradient resource areas through the implementation of construction BMPs. The following measures will be implemented to protect and minimize potential adverse impacts to downgradient wetlands and surface waters:

- Expediting construction and avoiding unnecessary activities in wetlands beyond those described in the required Project description.
- Installing erosion and sedimentation (E&S) controls, as depicted in the project site plans provided in Appendix C, to prevent sediment from entering downgradient resource areas or migrating off-site. We have proposed straw wattle with silt fence along the limit of work.
- Avoiding excessive vegetation removal or areas of exposed soils adjacent to the BVW, to the greatest extent feasible.
- Repairing and maintaining all E&S controls in a timely manner in accordance with all applicable federal, state, and local regulatory authorizations.
- Inspecting the work area following fill activities or work located adjacent to jurisdictional resources to ensure post-construction restoration is conducted in a timely manner.
- Minimizing long-term parking and refueling of equipment within the 100-foot Buffer Zone.
- All temporary access areas and temporary disturbance areas will be restored to pre-construction conditions.
- Disturbed wetland areas will be seeded with a suitable native seed mix, such as New England Wetland Plants *Erosion Control Mix for Moist Sites* or other suitable mix approved by the Commission and straw mulch will be applied as needed.

7 STORMWATER

The Project is proposing to utilize a total workspace area of less than one acre, therefore a Stormwater Construction General Permit is not required to be filed through the Environmental Protection Area's National Pollutant Discharge Elimination System. Additionally, Clean Water Act (CWA) section 402(1)(2) provides that EPA shall not require, nor force a state to require a CWA section 402 permit for discharges of stormwater runoff from oil and gas exploration, production, processing or treatment operations, or transmissions facilities, composed entirely of flows that are from conveyances or systems of conveyances used for collecting and conveying precipitation runoff, and that are not "contaminated by contact with any overburden, raw material, intermediate products, finished product, byproduct or waste products located on the site of such operations." This exemption applies to both construction and industrial activities associated with oil and gas exploration, production, processing or treatment operations, or transmission facilities.

The Stormwater Management Standards found in 310 CMR 10.05(6)(k)-(q)1 are geared to developments with the creation of large impervious surfaces such as paved parking lots, paved roadways, large buildings etc. This Project does not involve the creation of large parking lots, paved roadways, large buildings, etc. or the construction of stormwater management facilities (e.g., culvert crossings, storm drains, detention basins). New crushed stone areas are limited to approximately 22-feet by 22-feet. Therefore, the Stormwater Management Standards identified in 310 CMR 10.05(6)(k)-(q) have limited applicability to this Project. Once construction has been completed, temporarily impacted areas outside of

the new facility will be restored. All disturbed temporary workspace will be revegetated and stabilized in accordance with Algonquin’s E&SC Plan.

As stated above, this maintenance work will be performed in accordance with the FERC’s blanket certificate procedures, which allow for the maintenance of natural gas transmission facilities that are appurtenant to existing facilities that were originally built under a FERC certificate, without the requirement of proceeding through a new certificate process. Because the Applicant’s planned work falls within this federal regulatory framework, local permits are not applicable. Therefore, the Ashland Stormwater Bylaw (Chapter 247) is not applicable to this Project.

Aside from these exemptions, we note that the overall footprint of this project is minimal and the majority of the impact area will be pervious crushed stone, with minimal impact to stormwater values on the Site.

8 REGULATORY COMPLIANCE

This project is subject to the WPA and its implementing regulations and have complied to the greatest extent feasible with the Bylaw and its implementing regulations. Projects subject to these regulations must demonstrate how they comply with the general provisions and applicable performance standards. The following tables provide a detailed overview of the general provisions and performance standards under the WPA and Bylaw.

8.1 Massachusetts Wetlands Protection Act

Since the proposed Project will impact BVW and 100-foot Buffer Zone, the following tables describe how the Project complies with the general provisions at 310 CMR 10.03 (Table 2) and 10.53 (Table 3) as well as the performance standards for BVW at 310 CMR 10.55 (Table 4). Additionally, there is no NHESP-mapped habitat for rare species within the project area. Compliance with 310 CMR 10.60 is not applicable as there are no anticipated impacts to Banks, LUWW, RFA, BLSF, vernal pools, or other wildlife habitat.

Table 2. General Provisions of the Wetlands Protection Act (310 CMR 10.03)

Citation	Regulation	Compliance
310 CMR 10.03(1)(a)1.	The area is not significant to the protection of any of the interests identified in the WPA.	Permanent and temporary impacts are anticipated which are unavoidable to complete the required work. All temporary impact areas will be restored to pre-construction conditions. Wetland impact area is heavily disturbed and meets the criteria under 310 CMR 10.55(4)(c) for exemption from replication.
310 CMR 10.03(1)(a)2.	Work within a resource area will contribute to the protection of the interests of the WPA.	The proposed work that is the subject of this NOI will be located within an area subject to regulation. Implementation of proper BMPs will ensure minimization of impacts and restoration following work.
310 CMR 10.03(1)(a)3.	Work within the buffer zone will contribute to the protection of the interests of the WPA; except that work that lies both within the riverfront area and within all or a portion of the buffer zone to another resource shall comply with the performance standards for riverfront area.	All work will occur within the Buffer Zone and BVW but not within the RFA on the property. The proposed work will not diminish the ability of the Project Site or the Buffer Zone to contribute to the interests of the WPA.

310 CMR 10.03(1)(b)	Claims of work outside of any jurisdictional area impacting a jurisdictional area must demonstrate the work has had an adverse impact.	Not applicable
310 CMR 10.03(2)	Credible evidence from a competent source to support the position taken when contesting MassDEP's position.	Not applicable
310 CMR 10.03(3)	Installation of subsurface sewage disposal systems.	Not applicable
310 CMR 10.03(4)	Presumption concerning point-source discharges.	Not applicable
310 CMR 10.03(5)	Each resource area is presumed to be significant to the interests of the WPA.	Significance is presumed, though project meets criteria of 310 CMR 10.55(4)(c).
310 CMR 10.03(6)	Presumption concerning the application of herbicides.	Not applicable
310 CMR 10.03(7)(a)	Filing fees for NOIs pursuant to the WPA.	The project is subject to a \$500 fee under Category 2(j).

Table 3. General Provisions of Inland Resources Areas (310 CMR 10.53)

Citation	Regulation	Compliance
310 CMR 10.53(1)	Significance of resource areas with no presumptions.	The project proposes impacts to Buffer Zone and BVW. The Buffer Zone is not regulated as a resource area under the WPA; therefore, there are no presumptions or performance standards associated with it. The performance standards for BVW are addressed in Table 4 below.
310 CMR 10.53(2).	Sites subject to Restriction Orders.	Not Applicable
310 CMR 10.53(3).	Limited projects	Not Applicable
310 CMR 10.53(4)	Ecological restoration limited projects.	Not Applicable
310 CMR 10.53(5)	Limited projects supporting existing agriculture and reconstruction or construction of certain water dependent projects.	Not Applicable
310 CMR 10.53(6)	Limited projects for access to Riverfront Area.	Not Applicable
310 CMR 10.53(7)	Operation and maintenance plans for public or private infrastructure.	Enbridge's O&M plan can be relayed to the Commission, if required
310 CMR 10.53(8)	Stream crossings.	Not Applicable

Table 4. Bordering Vegetated Wetlands Performance Standards (310 CMR 10.55(4))

Citation	Regulation	Compliance
310 CMR 10.55(4)(a).	Where the presumption is not overcome, any proposed work in a BVW shall not destroy or otherwise impair any portion of said area.	BVW impacts within this marginally valuable wetland have been minimized to the greatest extent feasible.
310 CMR 10.55(4)(b)	Issuing authority may issue an Order of Conditions for the loss of up to 5,000 sf of BVW when properly mitigated in addition to any necessary conditions imposed by the Commission or MassDEP.	Issuance of OOC is permissible and impacts are below 5000 square feet. The loss of 479 square feet of BVW impact is permissible under 310 CMR 10.55(4)(c).

Citation	Regulation	Compliance
310 CMR 10.55(4)(b)1.	Surface of the replacement area to be created shall be equal to that of the area that will be lost.	The loss of 479 square feet of BVW impact is permissible under 310 CMR 10.55(4)(c).
310 CMR 10.55(4)(b)2.	Ground water and surface elevation of replacement area shall be approximately equal to that of the lost area.	Not applicable.
310 CMR 10.55(4)(b)3.	Overall horizontal configuration and location of the replacement area with respect to the bank shall be similar to that of the lost area.	Not applicable.
310 CMR 10.55(4)(b)4.	Replacement area shall have an unrestricted hydraulic connection to the same waterbody or waterway associated with the lost area.	Not applicable.
310 CMR 10.55(4)(b)5.	Replacement area shall be located within the same general area of the water body or reach of the waterway as the lost area	Not applicable.
310 CMR 10.55(4)(b)6.	At least 75% of the replacement area shall be reestablished with indigenous wetland plant species within two growing seasons and soils must be stabilized.	Not applicable.
310 CMR 10.55(4)(b)7.	Replacement area shall be provided in a manner which is consistent with all other general performance standards for each resource area permanently impacted.	Not applicable.
310 CMR 10.55(4)(c)1.-3.	Issuing authority may issue an Order of Conditions permitting the loss of BVW <500 sf, extends in a linear configuration, and no other alternatives are available.	The loss of 479 square feet of BVW impact is permissible under 310 CMR 10.55(4)(c). We have demonstrated meeting these criteria and do not have a suitable replication location.
310 CMR 10.55(4)(d).	No project may be permitted which will have any adverse effect on specified habitat sites of rare species.	Not applicable.
310 CMR 10.55(4)(e).	Work within ACECs	Not Applicable.

8.2 Wildlife Habitat Evaluation

There are no thresholds established for impacts to BVW under 310 CMR 10.55 or 10.60 for when a wildlife habitat evaluation (WHE) is required. Additionally, under MassDEP's Massachusetts Wildlife Habitat Protection Guidance for Inland Wetlands (Guidance) (MassDEP 2006), any impacts to BVW require at least a simplified WHE. J. Shuster, a Project Biologist with SWCA with over 15 years of professional experience, completed a simplified WHE at the Project Site. The evaluation was conducted in accordance with 310 CMR 10.60 of the WPA regulations and the Guidance for areas resulting in temporary and permanent impacts resource areas.

Project impacts will result in temporary and permanent impacts to 100-foot Buffer Zone as well as permanent impacts to BVW, resulting in the need for a WHE under the WPA. The intention of a WHE is to effectively evaluate whether a project will result in adverse impacts to wildlife habitat characteristics of inland resource areas detailed in 310 CMR 10.60(2) such that after two growing seasons following completion of the project, those impacts would substantially reduce the capacity of the affected resource areas to provide important wildlife habitat functions (i.e., shelter and breeding areas, food, and nesting sites) and consequently reduce a site's ability to support wildlife.

The following bullets evaluate the Project's potential to impact important habitat features and characteristics as well as activities that would likely necessitate the completion of a detailed WHE. The information below provides the necessary information sufficient to satisfy the requirements of simplified WHE according to the Guidance:

- **Habitat for state-listed animal species:** Not applicable. The Project is not mapped within Estimated Habitat for Rare Wildlife (NHESP 2021b).
- **Sphagnum hummocks and pools suitable as nesting habitat for four-toad salamanders (*Hemidactylium scutatum*):** Not applicable. There are no suitable habitats for four-toed salamanders consisting, in part, of sphagnum hummocks or pools within the Project Site.
- **Trees with large cavities (≥ 18 -inches in tree diameter at cavity entrance):** Not applicable. There are no trees with large cavities within the impact area.
- **Aras within 100-feet of existing beaver (*Castor canadensis*), mink (*Neovison vison*), or river otter (*Lutra canadensis*) dens:** Not applicable. There are no beaver, mink, or river otter dens on or adjacent to the Project Site.
- **Land containing freshwater mussel beds:** Not applicable. There are no areas of freshwater mussel beds on the Project Site.
- **Wetlands and waterbodies known to contain open water in winter with the capacity to serve as waterfowl winter habitat:** Not applicable. There are no areas of open water on the Project Site.
- **Turtle nesting areas:** Not applicable. There are no areas suitable to serve as turtle nesting areas on the Project Site.
- **Vertical sandy banks:** Not applicable. There are no vertical sandy banks within the Project Site.
- **Stream bed riffle zones:** Not applicable. The impact area does not include any portion of stream bed riffle zone.
- **Springs:** Not applicable. There are no springs within the Project Site.
- **Gravel stream bottom:** Not applicable. The impact area does not include any portion of gravel stream bottom.
- **Plunge pools:** Not applicable. The impact area does not include any portion of plunge pools.
- **Medium to large flat rock substrate in stream:** Not applicable. The impact areas does not include any impacts to streams.
- **Activities located in mapped Habitats of Regional or Statewide Importance:** Not applicable. There are not Habitats of Regional or Statewide Importance mapped within the Project Site (University of Massachusetts, Amherst 2021).
- **Activities affecting CVP or PVP:** Not applicable. There are no CVPs or PVPs within the Project Site.
- **Activities affecting vegetated wetlands >5,000 SF occurring in resource areas other than BVW:** Not applicable. The project does not propose impacts to other resource areas beyond BVW.

- **Activities affecting the sole connector between habitats >50-acres in size:** Not applicable. The project will not adversely impact any sole habitat connectors.
- **Installation of structures that prevent animal movement:** Not applicable. The proposed project does not include any structures that would inhibit animal migration. The small footprint of chain-link fence does not impede animal movements through the wetland or impede access to wildlife resources.
- **Activities for the purpose of bank stabilization using hard structure solutions that significantly affect the ability of stream channels to shift or meander or disrupt continuity in cover that would inhibit animal passage:** Not applicable. The project does not propose any impacts to streams.
- **Dredging >5,000 SF:** Not applicable. No dredging is proposed as part of this project.

8.3 Town Wetlands Protection Bylaw/Ordinance

The Town has enacted a local Bylaw with implementing regulations. This project has complied with this Bylaw to the greatest extent feasible, including minimization of work within the 25 foot No Disturbance Zone. We note that FERC's blanket certificate procedures allow for the maintenance of natural gas transmission facilities that are appurtenant to existing facilities that were originally built under a FERC certificate, without the requirement of proceeding through a new certificate process. Because the Applicant's planned work falls within this federal regulatory framework, local permits are not applicable.

9 SUMMARY

The Applicant is seeking an Order of Conditions (OOC) from the Commission for the construction of a new aboveground facility on the existing K1 System adjacent to Butterfield Drive in Ashland, Massachusetts.

As outlined above, since the Applicant operates an existing interstate natural gas transmission system pursuant to the Natural Gas Act, 15 U.S.C. § 717 et seq. and the Natural Gas Pipeline Safety Act, 49 U.S.C. § 60101 et seq and as part of its obligation under federal law to maintain the safety and reliability of its facilities, the Applicant is required by USDOT to routinely monitor its pipelines for segments which require attention and address them in a timely fashion to protect the public and to ensure the Applicant's compliance with federal pipeline safety regulations.

10 REFERENCES CITED

- Cowardin, L. W., V. Carter, F. C. Golet, and E. T. LaRoe. 1979. Classification of Wetlands and Deepwater Habitats of the United States. U.S. Department of the Interior, Fish and Wildlife Service, Office of Biological Sciences, Washington, D.C. 131 pp.
- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Federal Emergency Management Agency. 1981. Flood Insurance Rate Map, Town of Ashland, Massachusetts, Middlesex County, Community Panel 250157 0012 B. Available at: <https://msc.fema.gov/portal/search?AddressQuery=11%20federal%20st%2C%20belchertown%2C%20ma#searchresultsanchor>. Accessed April 25, 2023.
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- U.S. Army Corps of Engineers. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, C. V. Noble, and J. F. Berkowitz. ERDC/EL TR-12. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
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APPENDIX A
WPA Form and
Copies of Checks



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Ashland

City/Town

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



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

A. General Information

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

200 Butterfield Drive	Ashland	01721
a. Street Address	b. City/Town	c. Zip Code
Latitude and Longitude:	42.250170,	-71.426388
22	d. Latitude	e. Longitude
f. Assessors Map/Plat Number	43 (with additional staging on adjacent lot 42)	
	g. Parcel /Lot Number	

2. Applicant:

Terry	Albrecht	
a. First Name	b. Last Name	
Enbridge		
c. Organization		
890 Winter Street		
d. Street Address		
Waltham	MA	02451
e. City/Town	f. State	g. Zip Code
918-223-2020	terry.albrecht@enbridge.com	
h. Phone Number	i. Fax Number	j. Email Address

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

Robert	Martell	
a. First Name	b. Last Name	
126 Commerce Park Condominium Trust		
c. Organization		
200 Butterfield Drive		
d. Street Address		
Ashland	MA	01721
e. City/Town	f. State	g. Zip Code
508-881-3700	rmartell@martellasc.com	
h. Phone Number	i. Fax Number	j. Email address

4. Representative (if any):

Jonathan	Shuster	
a. First Name	b. Last Name	
SWCA Environmental Consultants		
c. Company		
15 Research Drive		
d. Street Address		
Amherst	MA	01002
e. City/Town	f. State	g. Zip Code
413-256-0202	jonathan.shuster@swca.com	
h. Phone Number	i. Fax Number	j. Email address

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

\$500.00	\$237.50	\$262.50
a. Total Fee Paid	b. State Fee Paid	c. City/Town Fee Paid



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A. General Information (continued)

6. General Project Description:

This project is designed to create a permanent, single entrance point to the K System Pipeline to allow
for the insertion of a robotic inspection device.

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

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

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

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

2. Limited Project Type

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

8. Property recorded at the Registry of Deeds for:

Middlesex	
a. County	b. Certificate # (if registered land)
78141	527
c. Book	d. Page Number

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

- 1. Buffer Zone Only – Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.
- 2. Inland Resource Areas (see 310 CMR 10.54-10.58; if not applicable, go to Section B.3, Coastal Resource Areas).

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



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WPA Form 3 – Notice of Intent

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Ashland

City/Town

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

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

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Bank	1. linear feet _____	2. linear feet _____
b. <input checked="" type="checkbox"/> Bordering Vegetated Wetland	+/-479sf 1. square feet _____	0, exempt under 310 CMR 10.55(4)(c) 2. _____ square feet
c. <input type="checkbox"/> Land Under Waterbodies and Waterways	1. square feet _____ 3. cubic yards dredged _____	2. square feet _____

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
d. <input type="checkbox"/> Bordering Land Subject to Flooding	1. square feet _____ 3. cubic feet of flood storage lost _____	2. square feet _____ 4. cubic feet replaced _____
e. <input type="checkbox"/> Isolated Land Subject to Flooding	1. square feet _____ 2. cubic feet of flood storage lost _____	3. cubic feet replaced _____
f. <input type="checkbox"/> Riverfront Area	1. Name of Waterway (if available) - specify coastal or inland _____	

2. Width of Riverfront Area (check one):
- 25 ft. - Designated Densely Developed Areas only
 - 100 ft. - New agricultural projects only
 - 200 ft. - All other projects

3. Total area of Riverfront Area on the site of the proposed project: 0 (+/- 480 sf outside of project area)
 _____ square feet

4. Proposed alteration of the Riverfront Area:

0	0	0
a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.

5. Has an alternatives analysis been done and is it attached to this NOI? Yes No
6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

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

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



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City/Town

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

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

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

<u>Resource Area</u>	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
a. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below	
b. <input type="checkbox"/> Land Under the Ocean	_____	
	1. square feet	

	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beach	Indicate size under Coastal Beaches and/or Coastal Dunes below	
d. <input type="checkbox"/> Coastal Beaches	_____	_____
	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	_____	_____
	1. square feet	2. cubic yards dune nourishment
	<u>Size of Proposed Alteration</u>	<u>Proposed Replacement (if any)</u>
f. <input type="checkbox"/> Coastal Banks	_____	
	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	_____	
	1. square feet	
h. <input type="checkbox"/> Salt Marshes	_____	_____
	1. square feet	2. sq ft restoration, rehab., creation
i. <input type="checkbox"/> Land Under Salt Ponds	_____	
	1. square feet	

	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	_____	
	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	

	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	_____	
	1. square feet	
4. <input type="checkbox"/> Restoration/Enhancement	If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please enter the additional amount here.	
	_____	_____
	a. square feet of BVW	b. square feet of Salt Marsh
5. <input type="checkbox"/> Project Involves Stream Crossings		
	_____	_____
	a. number of new stream crossings	b. number of replacement stream crossings



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Ashland

City/Town

C. Other Applicable Standards and Requirements

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

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage and Endangered Species Program (NHESP)? To view habitat maps, see the *Massachusetts Natural Heritage Atlas* or go to http://maps.massgis.state.ma.us/PRI_EST_HAB/viewer.htm.

a. Yes No

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

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

August 2021

b. Date of map

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

c. Submit Supplemental Information for Endangered Species Review*

1. Percentage/acreage of property to be altered:

(a) within wetland Resource Area _____
percentage/acreage

(b) outside Resource Area _____
percentage/acreage

2. Assessor's Map or right-of-way plan of site

2. Project plans for entire project site, including wetland resource areas and areas outside of wetlands jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

(a) Project description (including description of impacts outside of wetland resource area & buffer zone)

(b) Photographs representative of the site

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

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

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



Massachusetts Department of Environmental Protection
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C. Other Applicable Standards and Requirements (cont'd)

(c) MESA filing fee (fee information available at <https://www.mass.gov/how-to/how-to-file-for-a-mesa-project-review>).
Make check payable to "Commonwealth of Massachusetts - NHESP" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

(d) Vegetation cover type map of site

(e) Project plans showing Priority & Estimated Habitat boundaries

(f) OR Check One of the Following

1. Project is exempt from MESA review.
Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <https://www.mass.gov/service-details/exemptions-from-review-for-projectsactivities-in-priority-habitat>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing. a. NHESP Tracking # b. Date submitted to NHESP

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

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

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

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

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

North Shore - Hull to New Hampshire border:

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

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

Also if yes, the project may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional Office.

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

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



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:
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Ashland
City/Town

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

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

4. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?
 a. Yes No If yes, provide name of ACEC (see instructions to WPA Form 3 or MassDEP Website for ACEC locations). **Note:** electronic filers click on Website.
 b. ACEC
5. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?
 a. Yes No
6. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L. c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L. c. 130, § 105)?
 a. Yes No
7. Is this project subject to provisions of the MassDEP Stormwater Management Standards?
 a. Yes. Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:
 1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook Vol. 2, Chapter 3)
 2. A portion of the site constitutes redevelopment
 3. Proprietary BMPs are included in the Stormwater Management System.
 b. No. Check why the project is exempt: FERC maintenance project
 1. Single-family house
 2. Emergency road repair
 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

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

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:	
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Document Transaction Number	
Ashland	
City/Town	

D. Additional Information (cont'd)

- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s), Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.
K-1 MAKE PIGGABLE PROJECT, Workspace and Erosion Control Plan

a. Plan Title	J. Turner, PE
Stevens Associates, Consulting Engineers	c. Signed and Stamped by
5/3/2023	1"= 20'
d. Final Revision Date	e. Scale
K-1 MAKE PIGGABLE PROJECT, Site and Wetland Plan	5/3/2023
f. Additional Plan or Document Title	g. Date
- 5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form
- 9. Attach Stormwater Report, if needed.

E. Fees

- 1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

020378	April 17, 2023
2. Municipal Check Number	3. Check date
paid via eDEP	5. Check date
4. State Check Number	6. Payor name on check: Last Name
SWCA, Inc	7. Payor name on check: First Name
6. Payor name on check: First Name	7. Payor name on check: Last Name



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 3 – Notice of Intent

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

Provided by MassDEP:	
MassDEP File Number	
Document Transaction Number	
Ashland	
City/Town	

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

<i>Terry L Albrecht</i>	4-Apr-2023
1. Signature of Applicant	2. Date
see attached signature page from owner	
3. Signature of Property Owner (if different)	4. Date
<i>Jonathan Shuster</i>	5-5-2023
5. Signature of Representative (if any)	6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



WPA Form 3 – Notice of Intent

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

Provided by MassDEP:

MassDEP File Number

Document Transaction Number

Ashland

City/Town

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

1. Signature of Applicant

Robert J. Martell

2. Date

4.14.2023

3. Signature of Property Owner (if different)

4. Date

5. Signature of Representative (if any)

6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a **copy** of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in any part of Section C, Item 3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



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

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



A. Applicant Information

1. Location of Project:

200 Butterfield Drive

Asland

a. Street Address

b. City/Town

020378

\$237.50

c. Check number

d. Fee amount

2. Applicant Mailing Address:

Terry

Albrecht

a. First Name

b. Last Name

Enbridge

c. Organization

890 Winter Street

d. Mailing Address

Waltham

MA

02451

e. City/Town

f. State

g. Zip Code

918-223-2020

terry.albrecht@enbridge.com

h. Phone Number

i. Fax Number

j. Email Address

3. Property Owner (if different):

Robert

Martell

a. First Name

b. Last Name

126 Commerce Park Condominium Trust

c. Organization

200 Butterfield Drive

d. Mailing Address

Ashland

MA

01721

e. City/Town

f. State

g. Zip Code

508-881-3700

rmartell@martellasc.com

h. Phone Number

i. Fax Number

j. Email Address

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

B. Fees

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

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

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

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

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

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

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

THE RED THERMO SECURED "SP" LOGO IN THE LOWER CORNER OF THIS CHECK MUST FADE TEMPORARILY WHEN WARMED BY TOUCH OR FRICTION. SEE BACK FOR ADDITIONAL FEATURES.

SWCA, INC.
IMPREST ACCOUNT
15 RESEARCH DRIVE
AMHERST, MA 01002

DATE April 17, 2023 020378
11-24/1210

PAY TO THE ORDER OF Town of Ashland \$ 262.50

Two hundred sixty two & 50/100 DOLLARS

MEMO 79873.01 NO1 Fee MA

WELLS FARGO
SUPERIOR PRESS • 888-590-7993
JTB-4567347

⑈020378⑈



THE RED THERMO SECURED "SP" LOGO IN THE LOWER CORNER OF THIS CHECK MUST FADE TEMPORARILY WHEN WARMED BY TOUCH OR FRICTION. SEE BACK FOR ADDITIONAL FEATURES.

SWCA, INC.
IMPREST ACCOUNT
15 RESEARCH DRIVE
AMHERST, MA 01002

DATE April 17, 2023 020377
11-24/1210

PAY TO THE ORDER OF Ashland, MA Assessor's Office \$ 30.00

Thirty DOLLARS

MEMO 79873.01 Abetter Rust MA

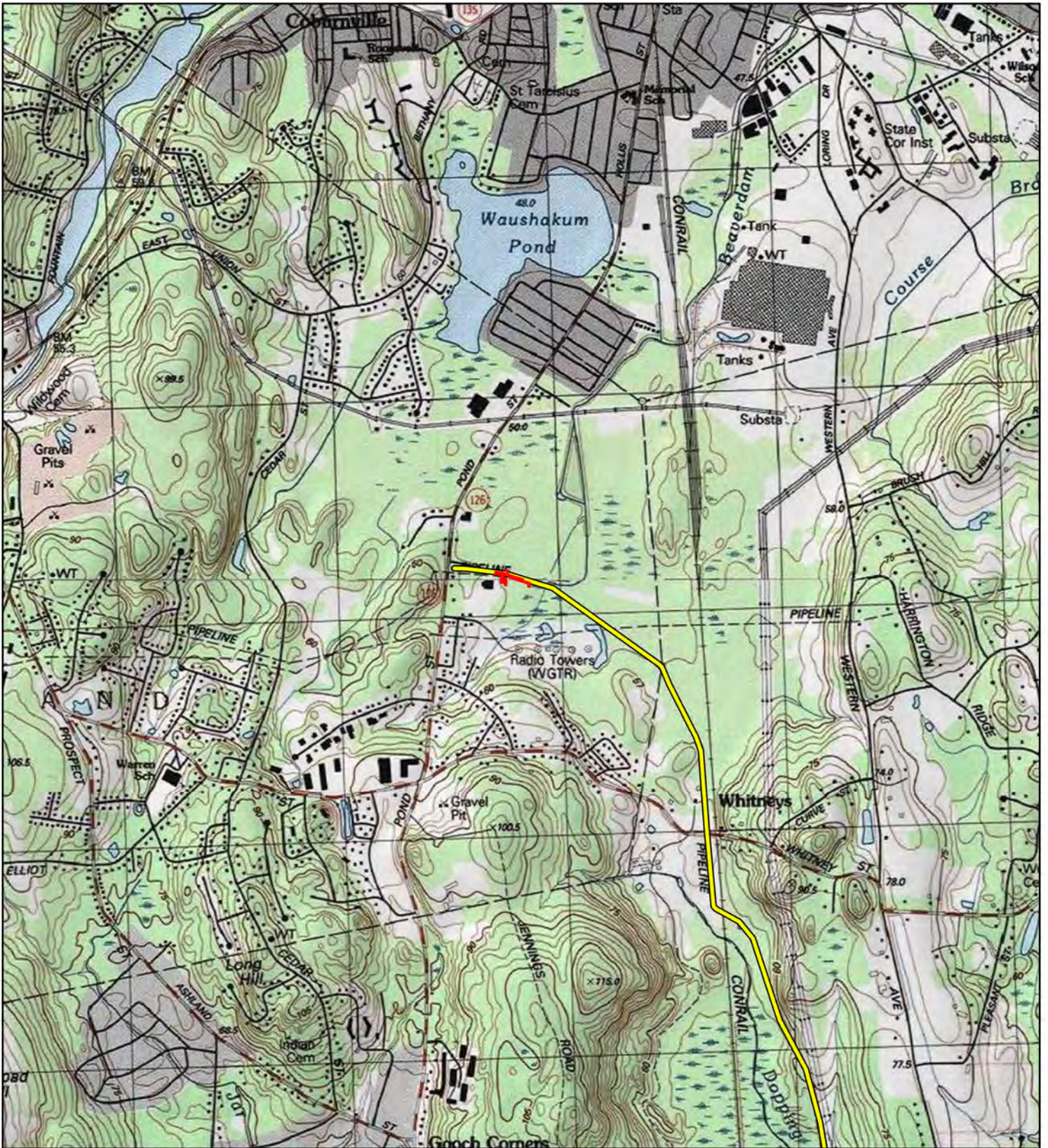
WELLS FARGO
SUPERIOR PRESS • 888-590-7993
JTB-4567347

⑈020377⑈



APPENDIX B

Figures



**K1 SYSTEM LAUNCHER/RECEIVER
INSTALLATION PROJECT**

FIGURE 2. AERIAL MAP

ASHLAND, MASSACHUSETTS

- Limit of Work
- Existing Pipeline



1:24,000
 Created By: L. Johnson
 Project Number: 79873
 Date: 5/3/2023





**K1 SYSTEM LAUNCHER/RECEIVER
INSTALLATION PROJECT**

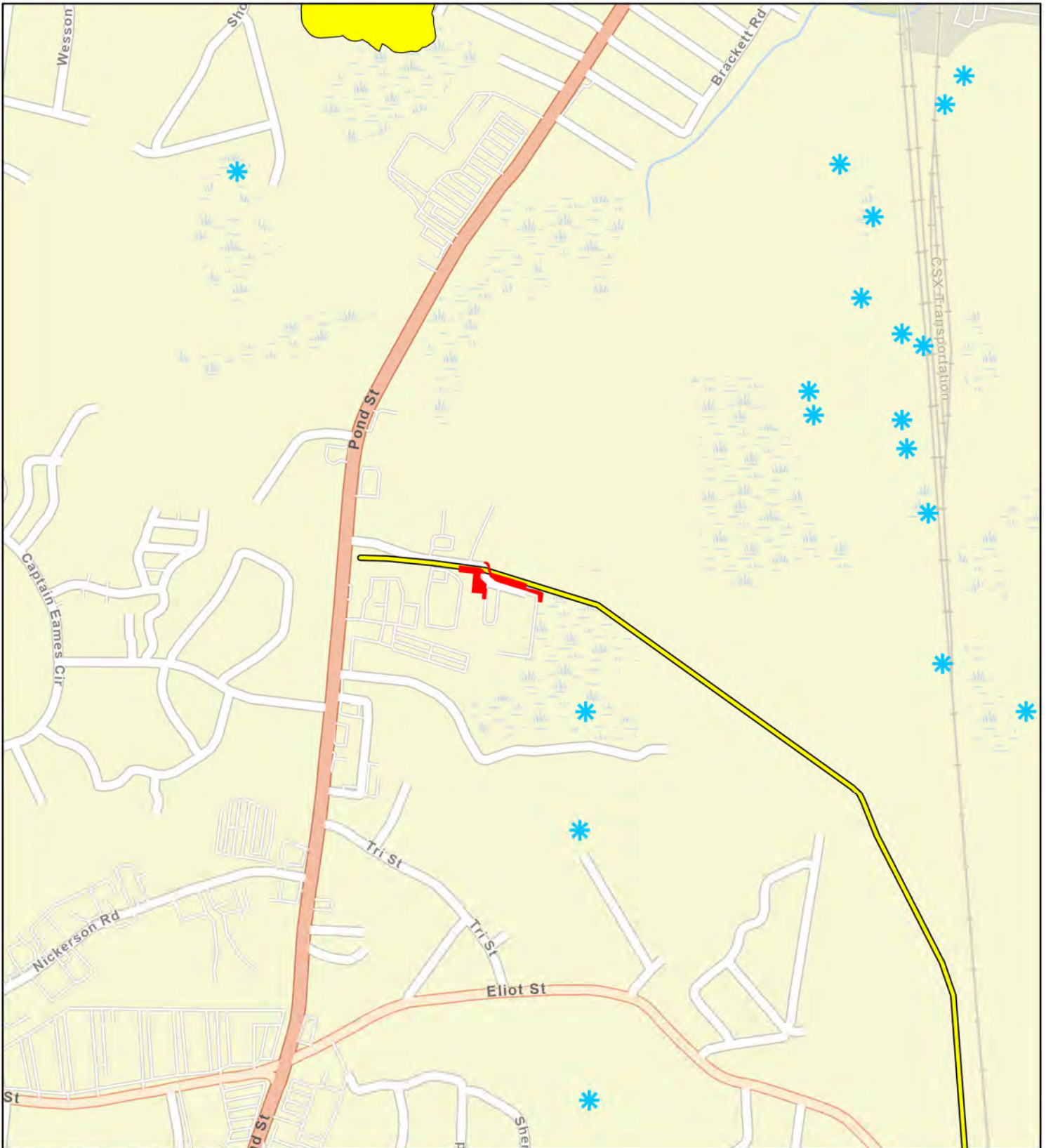
FIGURE 2. AERIAL MAP
ASHLAND, MASSACHUSETTS

-  Wetland Impact
-  Limit of Work
-  Bordering Vegetated Wetland
-  25-foot No Disturbance Zone
-  100-foot Buffer Zone
-  Estimated Riverfront Area



1:900
Created By: J. Zorn
Project Number: 70873
Date: 5/3/2023





**K1 SYSTEM LAUNCHER/RECEIVER
INSTALLATION PROJECT**

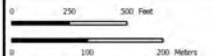
FIGURE 3. NHESP

ASHLAND, MASSACHUSETTS

- Limit of Work
- ✱ Potential Vernal Pool
- Existing Pipeline
- Priority Habitats of Rare Species



1:10,000
Created By: E. Johnson
 Project Number: 79873
 Date: 5/3/2023





K1 SYSTEM LAUNCHER/RECEIVER
INSTALLATION PROJECT

FIGURE 4. FEMA FLOOD ZONE

ASHLAND, MASSACHUSETTS

- Limit of Work
- Existing Pipeline
- FEMA 100-Year Flood Zone

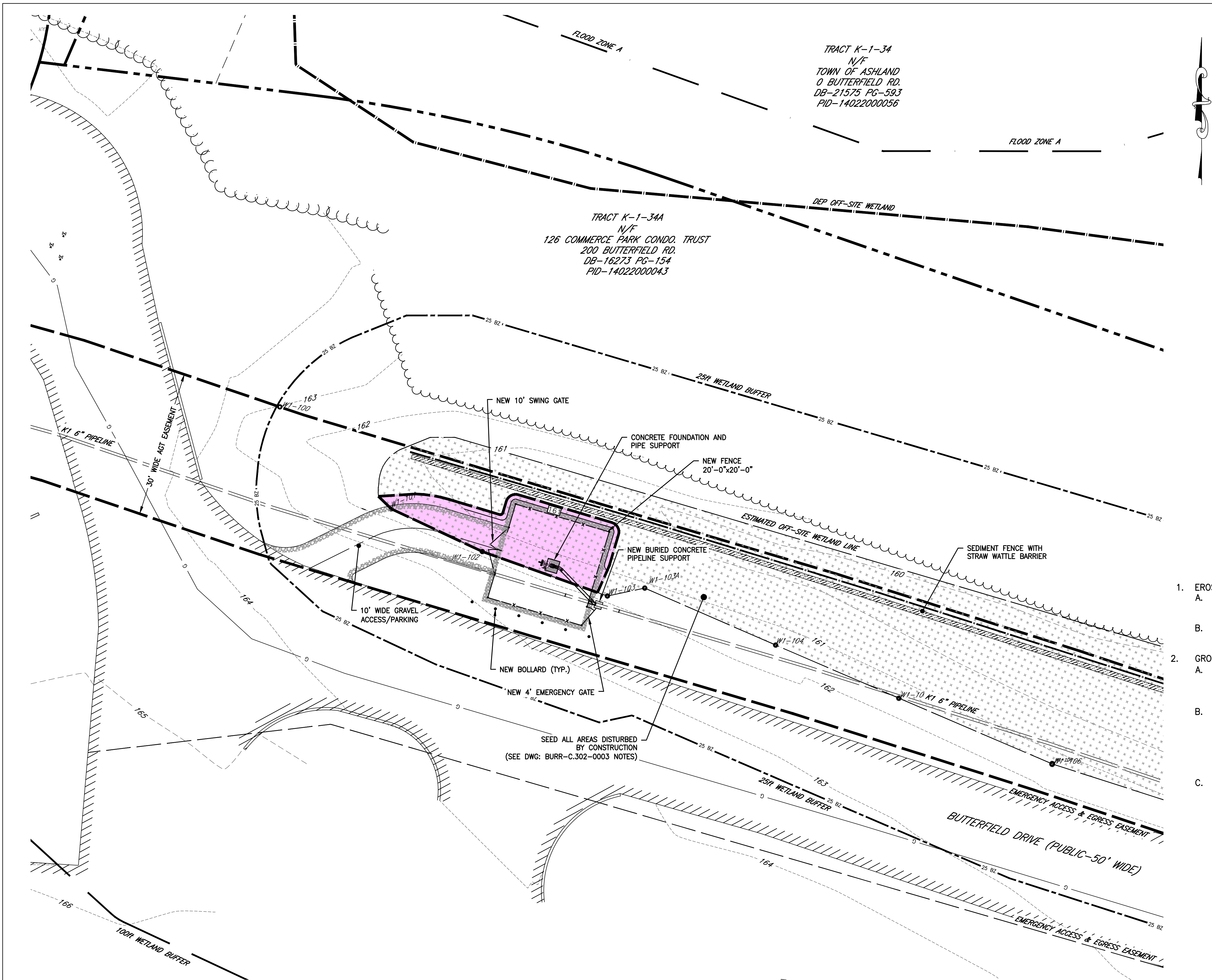


1:10,000
Created By: L. Johnson
Project Number: 19873
Date: 5/3/2023



APPENDIX C

Site Plans



TRACT K-1-34
N/F
TOWN OF ASHLAND
0 BUTTERFIELD RD.
DB-21575 PG-593
PID-1402200056

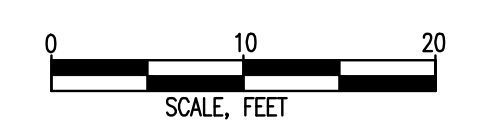
TRACT K-1-34A
N/F
126 COMMERCE PARK CONDO. TRUST
200 BUTTERFIELD RD.
DB-16273 PG-154
PID-1402200043

LEGEND

	PROPERTY LINE
	EASEMENT LINE
	PERMANENT IMPACTS TO DELINEATED WETLAND
	100 YEAR FLOOD ZONE A BOUNDARY
	DELINEATED WETLANDS
	SEDIMENT FENCE
	STRAW WATTLE
	DEP OFF-SITE WETLAND
	100' WETLAND BUFFER
	25' WETLAND BUFFER
	NEW FENCE
	CONTOUR LINE
	PROPOSED CONTOUR LINE
	OVERHEAD WIRE
	GAS LINE
	TREE LINE
	EDGE OF PAVEMENT
	WETLAND FLAG
	UTILITY POLE
	HYDRANT
	WATER VALVE
	GAS VALVE
	GAS MARKER
	SEWER MANHOLE
	NEW BOLLARD

NOTES

- EROSION AND SEDIMENT CONTROL:
 - FOR PLACEMENT LOCATIONS OF EROSION AND SEDIMENT CONTROL MEASURES REFERENCE DWG: BURR-C.302-0002.
 - AFTER CONSTRUCTION IS COMPLETE AND GROUND SURFACE STABILIZED, REMOVE ALL EROSION AND SEDIMENT CONTROLS AND ONLY WITH APPROVAL BY ASHLAND CONSERVATION COMMISSION STAFF.
- GROUND SURFACE FINISHES:
 - VALVE SITE SURFACE FINISH: PLACE 4 TO 6 INCHES OF 3/4" CLEAN CRUSHED STONE PLACED UPON SEPARATION GEOTEXTILE (MIRAFI 140) WITHIN FACILITY FENCE AND EXTENDING 1FT. EACH DIRECTION OUTSIDE FACILITY FENCE.
 - RESTORE DISTURBED AREAS WITHIN DELINEATED WETLANDS USING SUITABLE NATIVE SEED MIX, SUCH AS EROSION CONTROL MIX FOR MOIST SITES BY NEW ENGLAND WETLAND PLANTS, INC., OR OTHER MIX TO BE DETERMINED BY CERTIFIED WETLAND SCIENTIST IN CONSULTATION WITH ASHLAND CONSERVATION COMMISSION. DISTURBED AREAS WITHIN THE BUFFER ZONE WILL SEEDED WITH A SUITABLE EROSION CONTROL SEED MIX. WITH APPLICATION OF OTHER STABILIZING MEASURES, SUCH AS STRAW MULCH, IF NECESSARY.
 - RESTORE DISTURBED AREAS OUTSIDE DELINEATED WETLANDS TO MATCH PREVIOUSLY EXISTING SURFACES. APPLY A SUITABLE EROSION CONTROL SEED MIX, SUCH NEW ENGLAND CONSERVATION/WILDLIFE MIX BY NEW ENGLAND WETLAND PLANTS, INC. AND STABILIZING MEASURES, SUCH AS STRAW MULCH. ESTABLISH HEARTY GRASS COVER.



FILENAME: EN80048-C2_BURR-C.302-0003.DWG TIME: 1:36 PM BLEBRUN LAST UPDATE: 5/3/23

REV	DSN	CK	DESCRIPTION
△			
△			
△			
△			
△	BRL	EMB	ISSUED FOR PERMITTING (05-03-23)
△	DSN	CK	

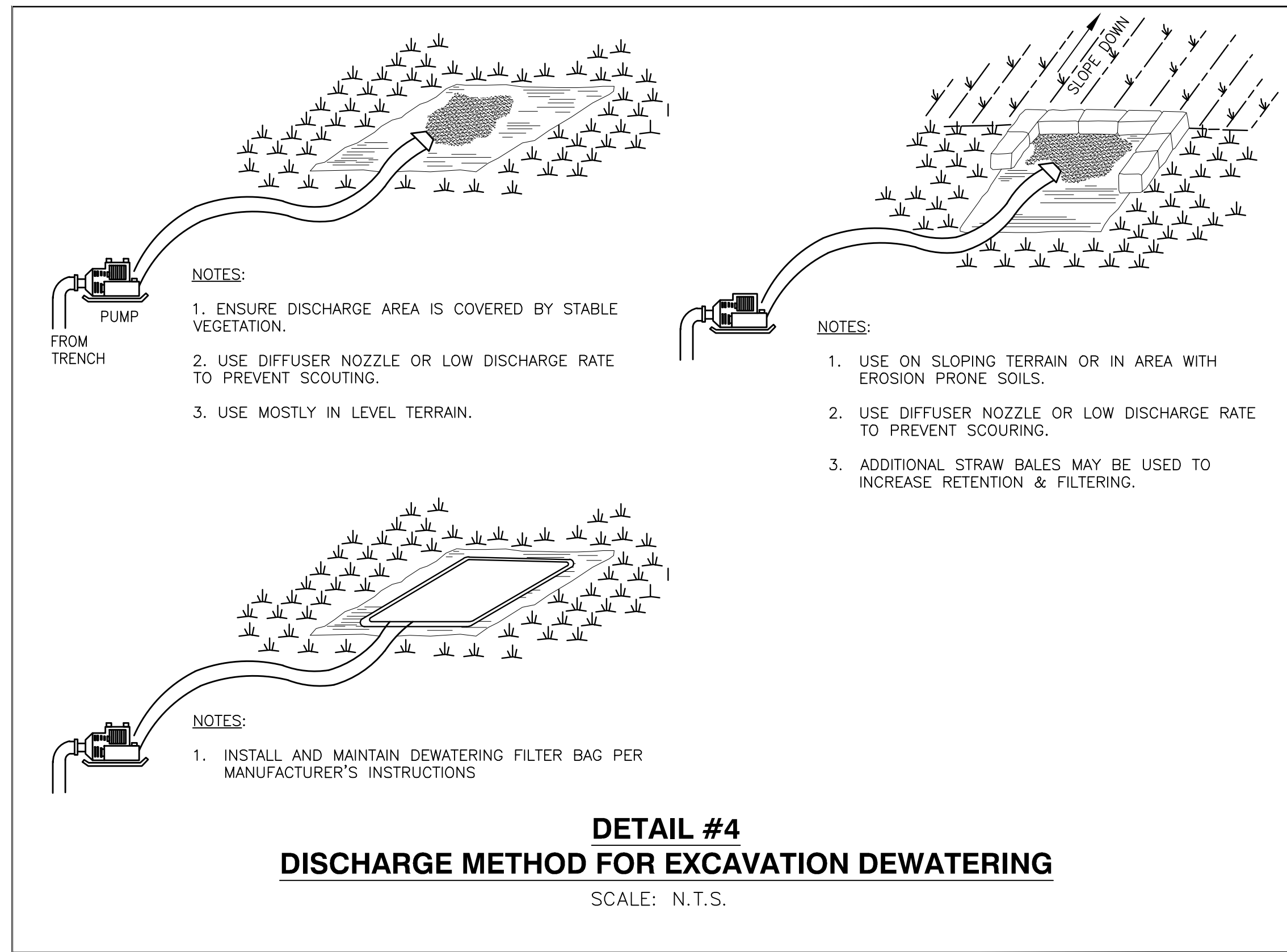
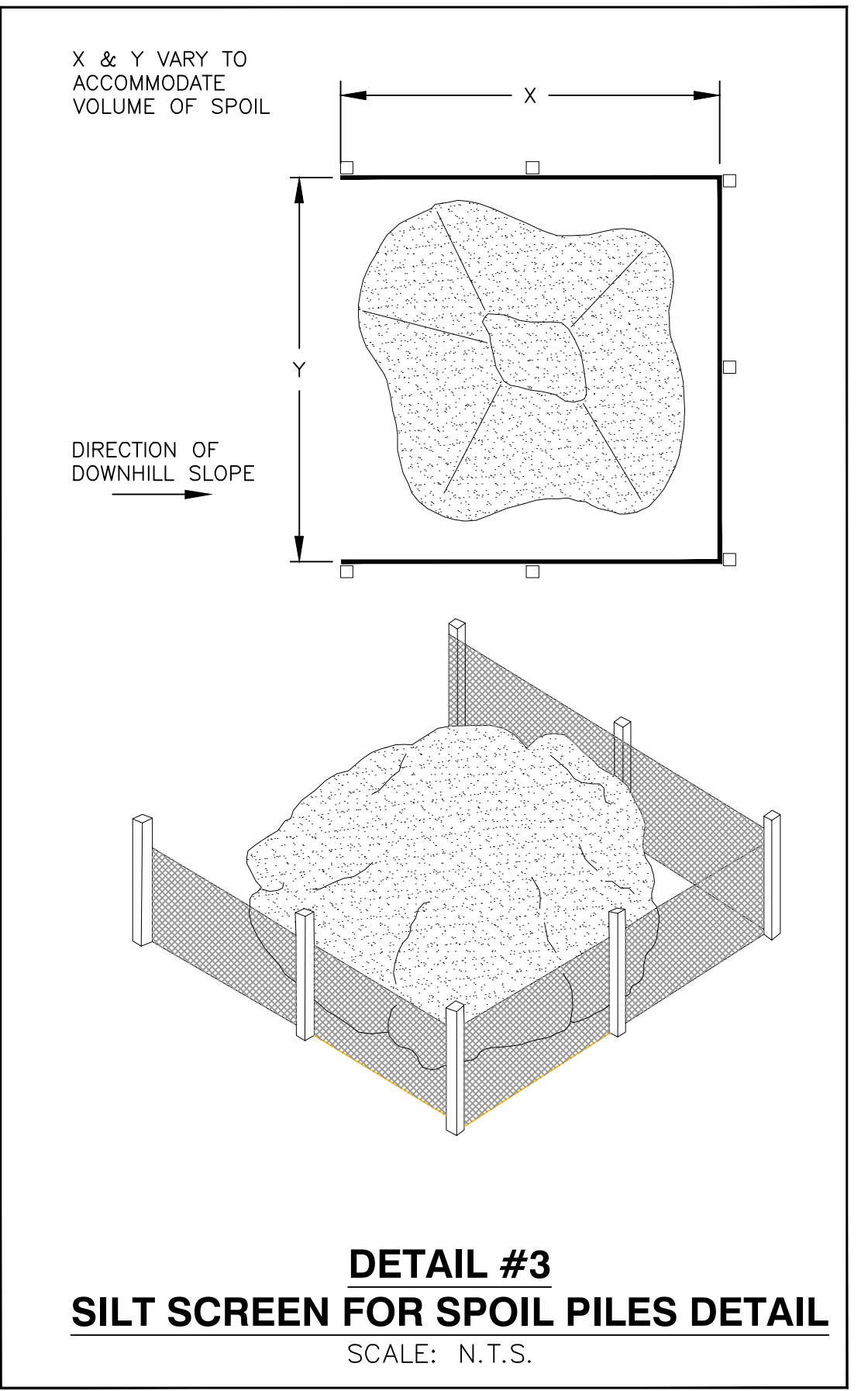
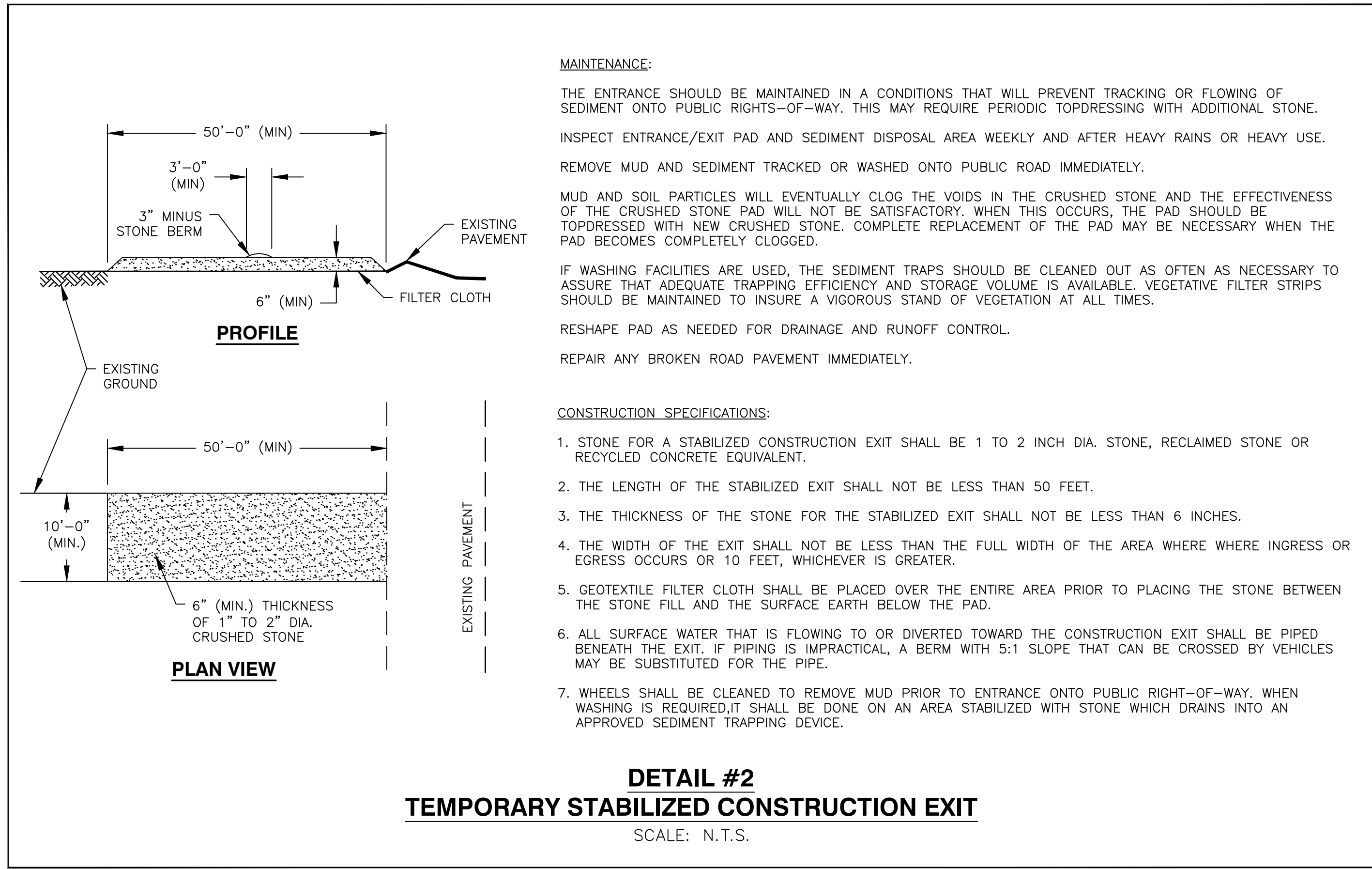
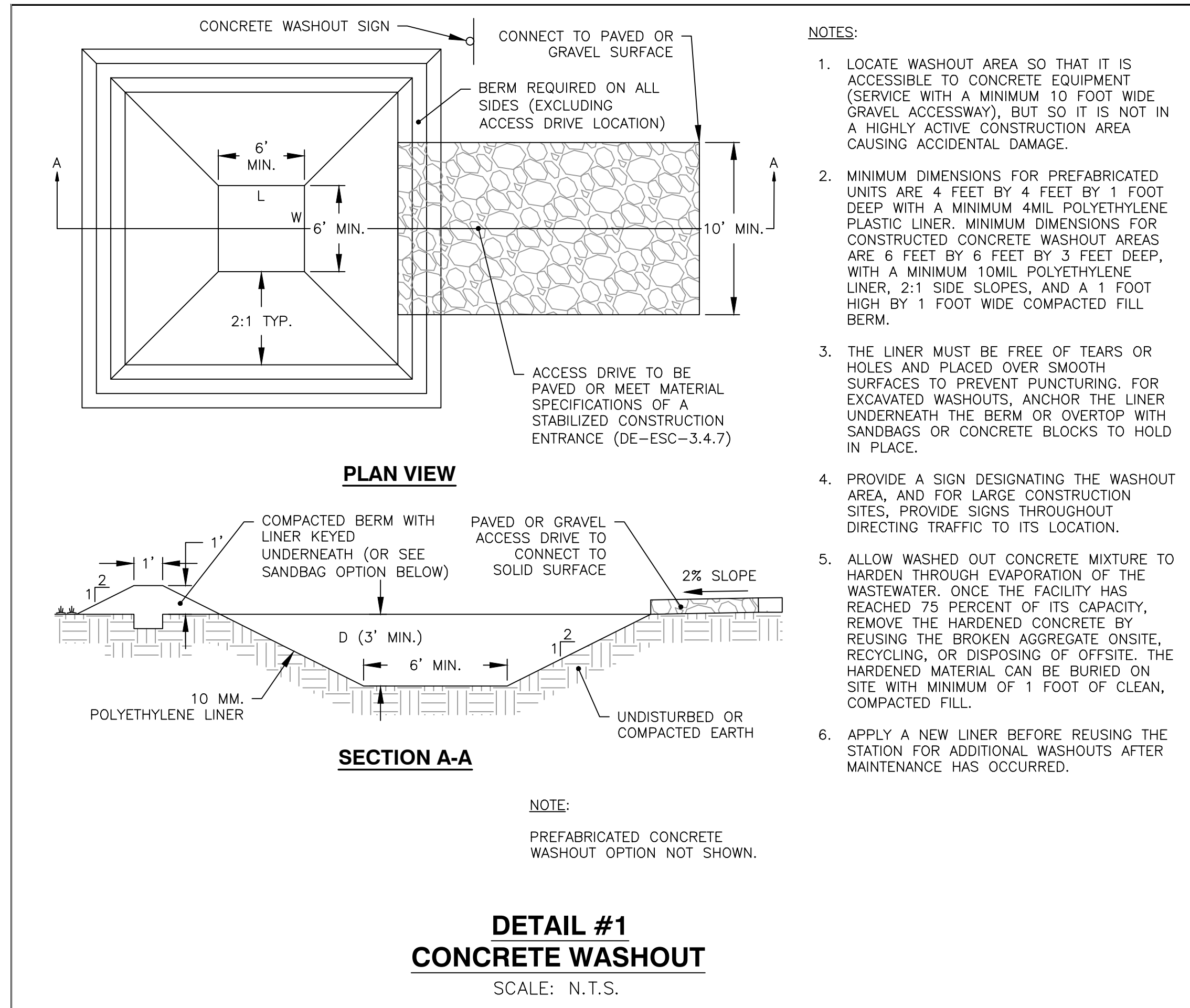
ODIN
2 HIGHWOOD DRIVE * TEWKSBURY, MA 01876
www.odinepc.com

ENGINEERING APPROVALS			
BID		CONSTRUCTION	
DRAWN BY			
CHECKED BY			
DESIGN ENGINEER			
PROJECT MANAGER			
SIGNATURE	DATE	SIGNATURE	DATE

K-1 MAKE PIGGABLE PROJECT
AGT - KSYS - EOLIN
ALGONQUIN GAS TRANSMISSION
SITE AND WETLAND PLAN
LOC. BUTTERFIELD DRIVE, ASHLAND, MA
YEAR: 2023 WBS: MC.400264.111 SCALE: 1" = 10'

ENBRIDGE
Algonquin Gas Transmission
DWG. BURR-C3.02-0003 REV. 0

SA PROJECT NO. 031-23-064
By: JET DATE 5/3/2023
CHK'D: JET DATE 5/3/2023
J. TURNER
SA PROJECT MANAGER
Stephens Associates Consulting Engineers, LLC (SA) and ODIN EPC, LLC (ODIN) have prepared this design drawing specifically for their client for application to the subject Project as conceived at this time. Any modifications or reuse of this drawing, or elements of it, without the express written consent of SA and ODIN is strictly prohibited. Your reliance may not properly translate all information required. SA and ODIN cannot be responsible for any translation errors.



NOTES

- THE PURPOSE OF THIS PLAN IS TO SHOW THE PROPOSED EROSION AND SEDIMENTATION CONTROLS TO BE USED DURING CONSTRUCTION.
- CONTRACTOR SHALL CONTINUOUSLY MONITOR THE EROSION CONTROL & SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION AND CORRECT ANY DEFICIENCIES.
- THE PROPOSED EROSION CONTROL & SEDIMENT CONTROLS SHOWN ON THIS PLAN SHALL BE USED AS A MINIMUM ONLY.
- THIS PLAN REFERENCES:
 - DRAWING #: BURR-C302-0002, TITLED: WORKSPACE AND EROSION & SEDIMENT PLAN, PREPARED BY ODIN EPC, 2 HIGHWOOD DRIVE, TEWKSBURY, MA. 01876.
- ALL EROSION & SEDIMENT CONTROLS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS (MAY 2003).
- EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO COMMENCING EARTH MOVING ACTIVITIES AND SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION OCCURS.
- INSTALL PERIMETER EROSION CONTROL (I.E. STRAW WATTLE) AROUND ALL MATERIAL STOCKPILES. ANY STOCKPILES OR DISTURBED GROUND SURFACES TO BE STATIONARY LONGER THAN 14 DAYS SHALL BE STABILIZED WITH VEGETATION.
- INSPECTION OF THE EROSION AND SEDIMENT CONTROL MEASURES SHALL OCCUR:
 - ON A DAILY BASIS WITHIN THE AREAS OF ACTIVE CONSTRUCTION OR EQUIPMENT OPERATION.
 - ON A WEEKLY BASIS IN AREAS WITH NO CONSTRUCTION OR EQUIPMENT OPERATION.
 - WITHIN 24-HOURS OF EACH 0.5-INCH RAIN EVENT OR MORE.
- THE REPAIR OR MAINTENANCE OF ANY EROSION OR SEDIMENT CONTROL SHALL OCCUR WITHIN 24 HOURS OF IDENTIFICATION OF A DEFICIENCY OR AS SOON AS CONDITIONS ALLOW.
- MAINTAIN A LOG OF ALL INSPECTIONS AND CORRECTIVE ACTIONS REQUIRED OR PERFORMED UNTIL FINAL STABILIZATION OCCURS.
- DUST CONTROL MEASURES SHALL BE IMPLEMENTED AS NEEDED AND SHALL BE TREATED BY WATER, STREET SWEEPING, AND PROTECTION OF BARE SOIL.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.
- CONTRACTOR SHALL CLEAN UP SPILLS (E.G. HYDRAULIC FLUID, ETC.) IMMEDIATELY UPON DISCOVERY. USED ABSORBENT MATERIALS AND OTHER HAZARDOUS WASTE SHALL BE PROPERLY DISPOSED OF.
- HAZARDOUS MATERIALS SHALL BE PROPERLY STORED IN STRUCTURALLY SOUND AND SEALED CONTAINERS, WITH SECONDARY CONTAINMENT (E.G. SPILL PALLETS OR EQUIVALENT).
- WASTE SHALL BE PROPERLY DISPOSED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN PORTABLE TOILETS OR OTHER SANITARY FACILITIES ON SITE.
- VEHICLES AND EQUIPMENT SHALL BE CHECKED FOR LEAKING OIL AND FLUIDS DAILY AND REPAIRED AS NECESSARY. MAJOR REPAIRS SHALL BE PERFORMED OFFSITE.

FILENAME: EN00048-C4_BURR-C-320-0001_0002.DWG TIME: 4:56 PM BLEBRUN LAST UPDATE: 5/2/23

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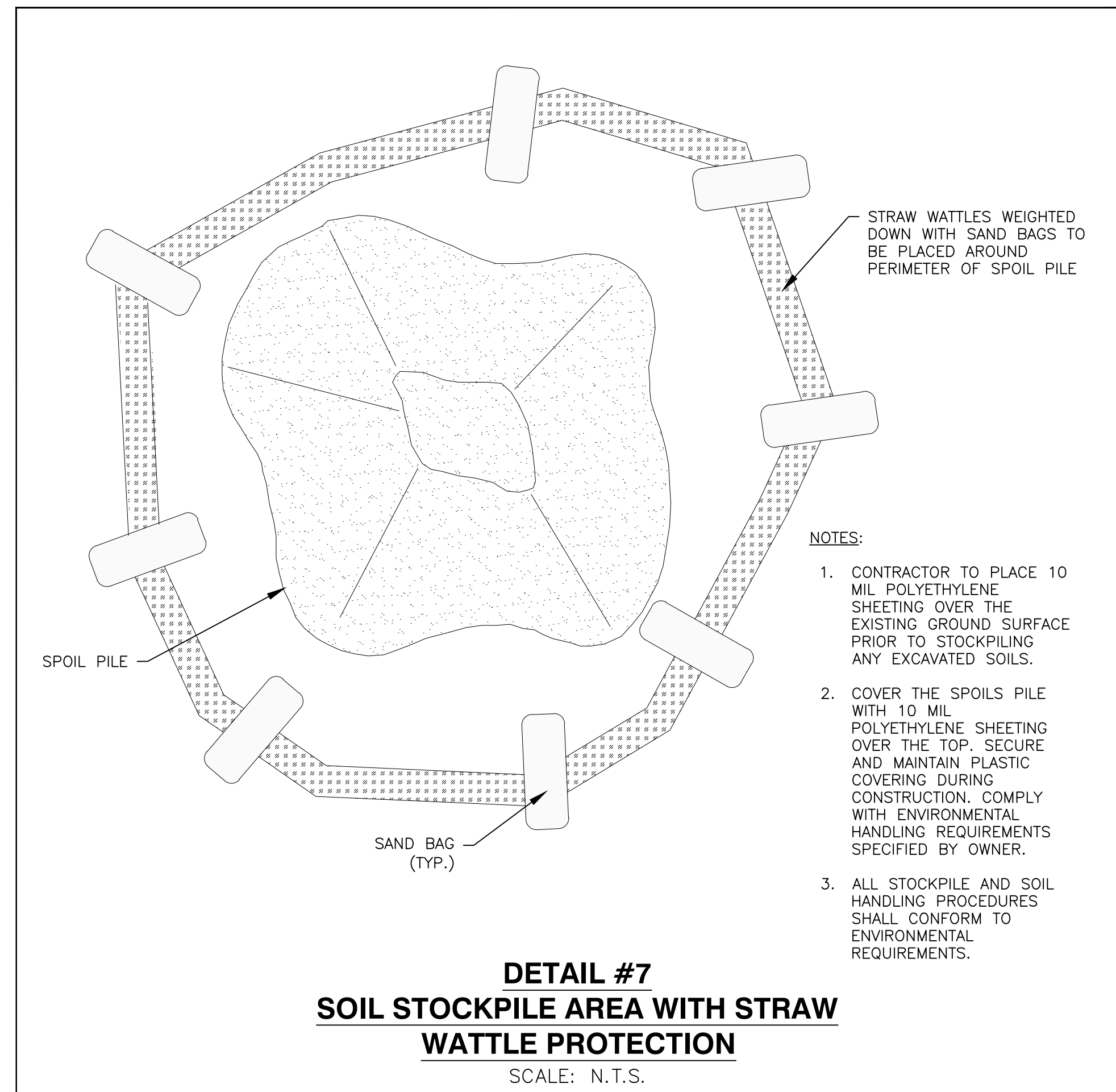
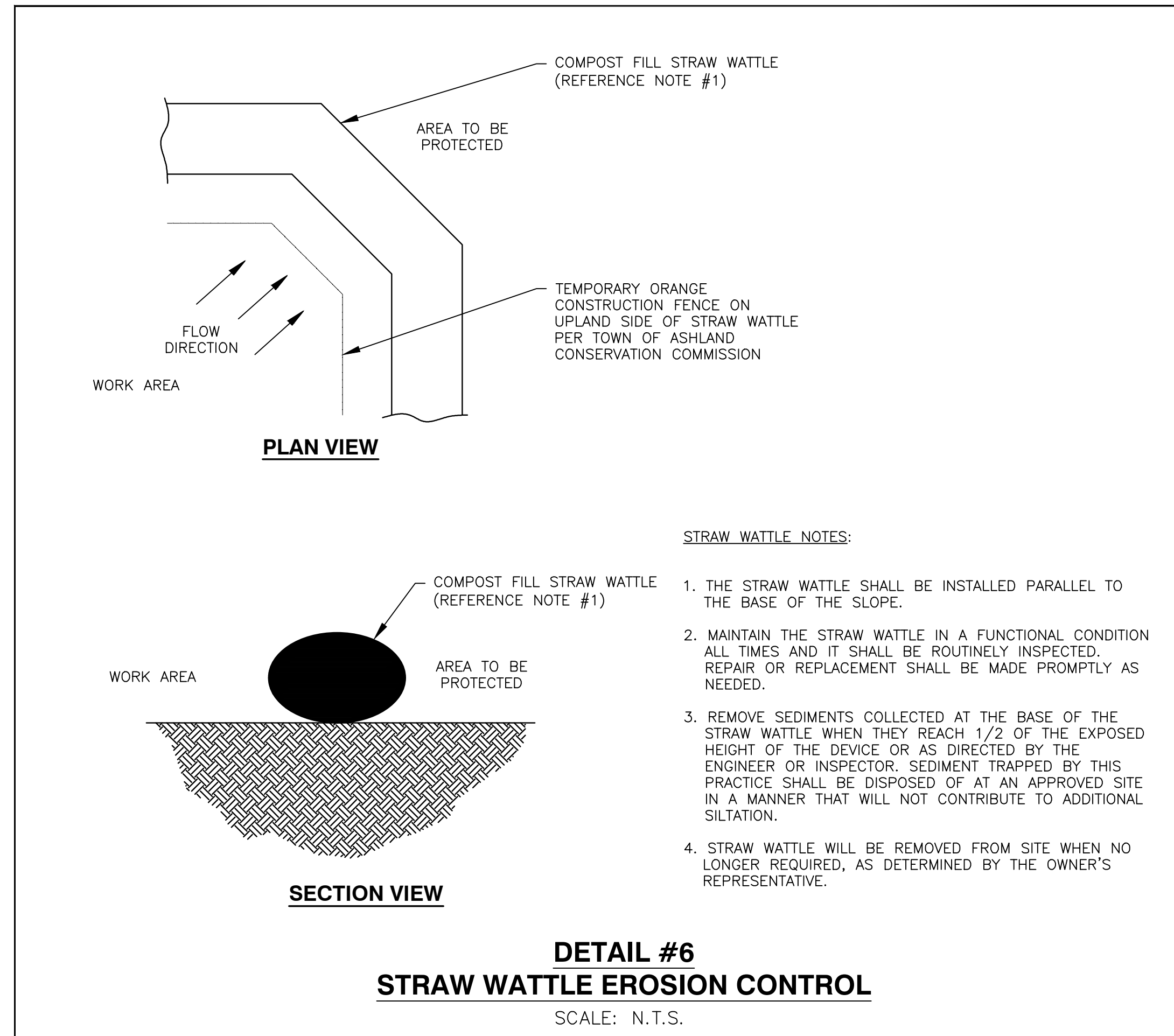
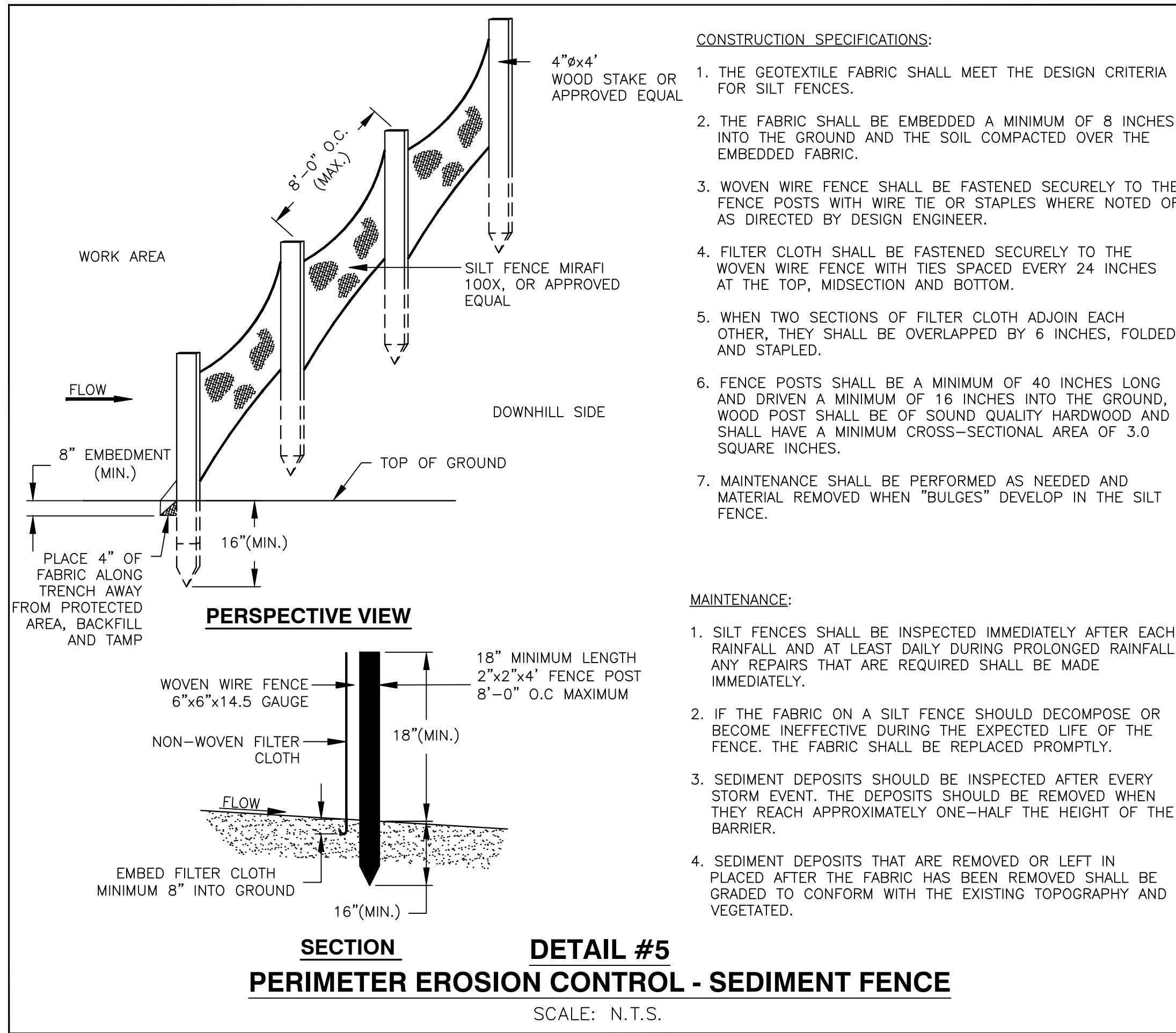
ODIN
2 HIGHWOOD DRIVE * TEWKSBURY, MA 01876
www.odinepc.com

ENGINEERING APPROVALS			
BID		CONSTRUCTION	
DRAWN BY			
CHECKED BY			
DESIGN ENGINEER			
PROJECT MANAGER			
SIGNATURE	DATE	SIGNATURE	DATE

K-1 MAKE PIGGABLE PROJECT
AGT - KSYS - EOLIN
ALGONQUIN GAS TRANSMISSION
SEDIMENT DETAILS
LOC. BUTTERFIELD DRIVE, ASHLAND, MA
YEAR: 2023 WBS: MC.400264.111 SCALE: NONE

ENBRIDGE
Algonquin Gas Transmission
DWG. BURR-C.320-0001 REV. 0

SA PROJECT NO. 031-23-064
By: JET DATE 5/3/2023
CHK'D: JET DATE 5/3/2023
J. TURNER
SA PROJECT MANAGER
Stephens Associates Consulting Engineers, LLC (SA) and ODIN EPC, LLC (ODIN) have prepared this design drawing specifically for their client for application to the subject Project as conceived at this time. Any modifications or reuse of this drawing, or elements of it, without the express written consent of SA and ODIN is strictly prohibited. Your software may not properly translate all information required. SA and ODIN cannot be responsible for any translation errors.



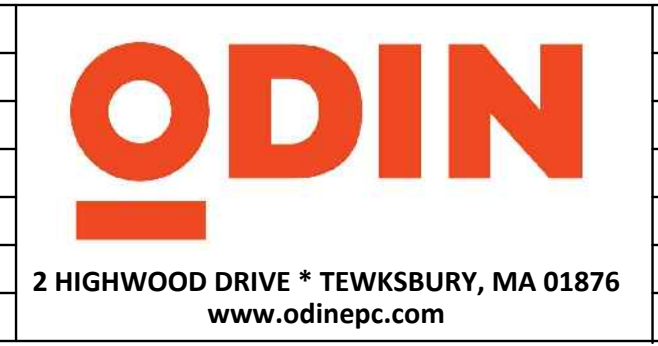
SA PROJECT NO. 031-23-064
 BY: JET DATE: 5/3/2023
 CHK'D: JET DATE: 5/3/2023
 J. TURNER
 SA PROJECT MANAGER

Stephens Associates
 Consulting Engineers
 Structural
 Geotechnical
 Hydrology & Hydraulics
 668 Main St., Ste. 250, Wilmington, MA 01887
 Phone (978)988-2115, Fax (978)988-2117

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FILENAME: ENB0048-C4_BURR-C-320-0001_0002.DWG TIME: 4:56 PM BLEBRUN

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DWG. NO.	REFERENCE DWG.			



	ENGINEERING APPROVALS			
	BID		CONSTRUCTION	
DRAWN BY				
CHECKED BY				
DESIGN ENGINEER				
PROJECT MANAGER				
	SIGNATURE	DATE	SIGNATURE	DATE

K-1 MAKE PIGGABLE PROJECT
 AGT - KSYS - EOLIN
 ALGONQUIN GAS TRANSMISSION
 SEDIMENT DETAILS

LOC. BUTTERFIELD DRIVE, ASHLAND, MA

ENBRIDGE
Algonquin Gas Transmission

YEAR: 2023 WBS: MC.400264.111 SCALE: NONE DWG. BURR-C.320-0002 REV. 0

APPENDIX D
USACE Wetland
Dataforms

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 79873 / 200 Butterfield Dr. City/County: Ashland/Middlesex Sampling Date: March 1, 2023
 Applicant/Owner: Enbridge State: MA Sampling Point: W1-Up
 Investigator(s): SWCA (J. Shuster & R. Eagleson) Section, Township, Range: N/A
 Landform (hillside, terrace, etc.): Drainage Local relief (concave, convex, none): Convex Slope (%): <5
 Subregion (LRR or MLRA): LRR R Lat: 42.250164°N Long: 71.426576°W Datum: NAD83
 Soil Map Unit Name: 656 - Udorthents-Urban land complex NWI classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
 Are Vegetation No, Soil Yes*, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present?	Yes <u> </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) All three wetland parameters have not been met. *Soils have been historically disturbed, likely associated with the installation of the gasoline.		

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> ___ Surface Water (A1) ___ Water-Stained Leaves (B9) ___ High Water Table (A2) ___ Aquatic Fauna (B13) ___ Saturation (A3) ___ Marl Deposits (B15) ___ Water Marks (B1) ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres on Living Roots (C3) ___ Drift Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Thin Muck Surface (C7) ___ Inundation Visible on Aerial Imagery (B7) ___ Other (Explain in Remarks) ___ Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> ___ Surface Soil Cracks (B6) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A	
Remarks: The hydrology parameter was not met.	

VEGETATION – Use scientific names of plants.

Sampling Point: W1-Up

	Absolute % Cover	Dominant Species?	Indicator Status																	
Tree Stratum (Plot size: <u> r = 30 ft. </u>)				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 1 </u> (A) Total Number of Dominant Species Across All Strata: <u> 3 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 33.3% </u> (A/B)																
1. <u>None</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
=Total Cover				Prevalence Index worksheet: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;">Total % Cover of:</td> <td style="width:50%; text-align: center;">Multiply by:</td> </tr> <tr> <td>OBL species <u> 0 </u></td> <td>x 1 = <u> 0 </u></td> </tr> <tr> <td>FACW species <u> 25 </u></td> <td>x 2 = <u> 50 </u></td> </tr> <tr> <td>FAC species <u> 0 </u></td> <td>x 3 = <u> 0 </u></td> </tr> <tr> <td>FACU species <u> 85 </u></td> <td>x 4 = <u> 340 </u></td> </tr> <tr> <td>UPL species <u> 0 </u></td> <td>x 5 = <u> 0 </u></td> </tr> <tr> <td>Column Totals: <u> 110 </u> (A)</td> <td><u> 390 </u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u> 3.55 </u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u> 0 </u>	x 1 = <u> 0 </u>	FACW species <u> 25 </u>	x 2 = <u> 50 </u>	FAC species <u> 0 </u>	x 3 = <u> 0 </u>	FACU species <u> 85 </u>	x 4 = <u> 340 </u>	UPL species <u> 0 </u>	x 5 = <u> 0 </u>	Column Totals: <u> 110 </u> (A)	<u> 390 </u> (B)	Prevalence Index = B/A = <u> 3.55 </u>	
Total % Cover of:	Multiply by:																			
OBL species <u> 0 </u>	x 1 = <u> 0 </u>																			
FACW species <u> 25 </u>	x 2 = <u> 50 </u>																			
FAC species <u> 0 </u>	x 3 = <u> 0 </u>																			
FACU species <u> 85 </u>	x 4 = <u> 340 </u>																			
UPL species <u> 0 </u>	x 5 = <u> 0 </u>																			
Column Totals: <u> 110 </u> (A)	<u> 390 </u> (B)																			
Prevalence Index = B/A = <u> 3.55 </u>																				
Sapling/Shrub Stratum (Plot size: <u> r = 15 ft. </u>)																				
1. <u>Euonymus alatus</u>	30	Yes	NC																	
2. <u>Sambucus nigra</u>	10	Yes	FACW																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
=Total Cover																				
Herb Stratum (Plot size: <u> r = 5 ft. </u>)				Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Fallopia japonica</u>	85	Yes	FACU																	
2. <u>Phragmites australis</u>	15	No	FACW																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
=Total Cover																				
Woody Vine Stratum (Plot size: <u> r = 30 ft. </u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
1. <u>None</u>																				
2. _____																				
3. _____																				
4. _____																				
=Total Cover																				
Remarks: (Include photo numbers here or on a separate sheet.) The vegetation parameter was not met.				Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>																

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: 79873 / 200 Butterfield Dr. City/County: Ashland/Middlesex Sampling Date: March 1, 2023
 Applicant/Owner: Enbridge State: MA Sampling Point: W1-WET
 Investigator(s): SWCA (J. Shuster & R. Eagleson) Section, Township, Range: N/A
 Landform (hillside, terrace, etc.): Drainage Local relief (concave, convex, none): Concave Slope (%): <5
 Subregion (LRR or MLRA): LRR R Lat: 42.250187°N Long: 71.426517°W Datum: NAD83
 Soil Map Unit Name: 656 - Udorthents-Urban land complex NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation No, Soil Yes*, or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation No, Soil No, or Hydrology No naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: <u>W1</u>
Remarks: (Explain alternative procedures here or in a separate report.) All three wetland parameters have been met for this location. *Soils have been historically disturbed, likely attributable to the installation of the adjacent gasoline.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>6</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>1</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A	
Remarks: The hydrology parameter has been met.	

VEGETATION – Use scientific names of plants.

Sampling Point: W1-WET

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum (Plot size: <u> r = 30 ft. </u>)				
1. <u><i>Acer rubrum</i></u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u> 4 </u> (A) Total Number of Dominant Species Across All Strata: <u> 7 </u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u> 57.1% </u> (A/B)
2. <u><i>Quercus rubra</i></u>	<u>20</u>	<u>Yes</u>	<u>FACU</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>40</u>	=Total Cover		
Sapling/Shrub Stratum (Plot size: <u> r = 15 ft. </u>)				
1. <u><i>Sambucus nigra</i></u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2. <u><i>Rubus idaeus</i></u>	<u>4</u>	<u>Yes</u>	<u>FACU</u>	
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
	<u>14</u>	=Total Cover		
Herb Stratum (Plot size: <u> r = 5 ft. </u>)				
1. <u><i>Phragmites australis</i></u>	<u>70</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u> </u> 1 - Rapid Test for Hydrophytic Vegetation <u> X </u> 2 - Dominance Test is >50% <u> </u> 3 - Prevalence Index is ≤3.0 ¹ <u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u><i>Onoclea sensibilis</i></u>	<u>45</u>	<u>Yes</u>	<u>FACW</u>	
3. <u><i>Fallopia japonica</i></u>	<u>15</u>	<u>No</u>	<u>FACU</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
	<u>130</u>	=Total Cover		
Woody Vine Stratum (Plot size: <u> r = 30 ft. </u>)				
1. <u><i>Vitis labrusca</i></u>	<u>5</u>	<u>Yes</u>	<u>FACU</u>	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.
2. _____				
3. _____				
4. _____				
	<u>5</u>	=Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.) The vegetation parameter has been met.				Hydrophytic Vegetation Present? Yes <u> X </u> No <u> </u>

APPENDIX E

Site Photographs



Photo E-1. A view facing northwest of the project site from behind the building at 200 Butterfield Lane. March 1, 2023.



Figure E-2. View facing northwest of the proposed project area, within the western limit of the swale. March 1, 2023.



Figure E-3. The project area along the limit of the resource area, facing east. April 28, 2023.



Figure E-4. The Enbridge easement on the adjacent lot at 158 Butterfield Drive, facing south. Some project staging will occur in this location, outside of buffer zone. April 28, 2023.



Figure E-5. The parking lot at 200 Butterfield Lane directly south of project area, facing south. March 1, 2023.



Figure E-6. An overview of the wetland data plot and soil profile. March 1, 2023.



Figure E-7. A close-up of the delineated swale with areas of standing water and saturation. April 28, 2023.



Figure E-8. Beaverdam Brook flows south to north, through the gasoline ROW, over 200 feet east of the project area. View facing north. March 1, 2023.

APPENDIX F

Abutter Notification



Town of Ashland

MASSACHUSETTS

Conservation Commission

NOTIFICATION TO ABUTTERS- Letter

A/An Notice of Intent (NOI)
has been filed with the **Ashland Conservation Commission** pursuant to the *Wetlands Protection Act (M.G.L. c. 131 §40)*, *Wetlands Protection Act Regulations 310 C.M.R. 10.05 (4)(a)* and the *Wetlands Protection Bylaw Chapter 280 Section 9*.

The applicant is Enbridge.

The proposed project is located at 200 Butterfield Drive and Easement on 158 Butterfield Drive in Ashland, Massachusetts. The proposed project is:

The Applicant proposes a launcher and receiver facility at the head of an existing gas pipeline system, within an improved and leveled crushed stone pad with chain link fence. These facility maintenance updates will allow the Applicant to internally monitor a portion of the K-1 Pipeline, test and confirm its integrity, and identify any anomalies.

The filing may be examined at the Ashland Town Hall, at 101 Main Street, by appointment during business hours on the weekdays. Town Hall business hours are:

Monday 8:00 a.m.- 3:30 p.m.,
Tuesday 8:00 a.m.- 3:30 p.m.,
Wednesday 8:00 a.m.-7:00 p.m., and
Thursday 8:00 a.m.-3:30 p.m.

Note that Town Hall is closed for most federal and state holidays. For more information, or to schedule a time to review the filing, please call 508-532-7924, and ask for the Conservation Agent.

The public hearing information is scheduled for Monday, May 22, 2023, at 7:15 p.m. (Note that all hearings are posted for 7:15. Hearings are taken in order of the posted agenda.). The hearing will be held at 101 Main Street, Ashland, MA. 01721, in the [held remotely] Room.

Otherwise, further information of the public hearing can be obtained from the Ashland Conservation Commission.

200 BUTTERFIELD DR COMMERCIAL CONDO ASSOCIATION

200 BUTTERFIELD DR

PARCEL 22-43-0000

<u>PARCEL ID</u>	<u>STR#</u> <u>STREET</u>	<u>OWNER NAME 1</u>	<u>OWNER NAME 2</u>	<u>MAILING ADDRE</u>	<u>MAILING #</u>	<u>CITY/TOWN</u>	<u>STATE</u>	<u>ZIP</u>
014/022.0-0036-0000.0	162 POND ST	KANE MICHAEL & PAULA M	TRS 162 POND STRE	162 POND ST		ASHLAND	MA	01721
014/022.0-0042-0000.0	158 BUTTERFIELD DR	MASCESTER COMPANY INC	ATTN: CORP REAL ES	55 GLENLAKE PK'		ATLANTA	GA	30328
014/022.0-0043-0100.1	200 BUTTERFIELD DR	CHECKMATE LLC		21 WOOD RD		SHERBORN	MA	01770
014/022.0-0043-0100.2	200 BUTTERFIELD DR	LANCASTER RUTH E	TRST RUTH E LANCA	564 SLOCUM RD C/O SUSAN	N DARTMOUT	MA		02747
014/022.0-0043-0100.3	200 BUTTERFIELD DR	FRANCO NOMINEE REALTY TRUS	DAVID P & JOHN C F	200 BUTTERFIELD SUITE C		ASHLAND	MA	01721
014/022.0-0043-0100.4	200 BUTTERFIELD DR	FRANCO DAVID P & JOHN G	TRS OF NOMINEE RE	200 BUTTERFIELD SUITE D		ASHLAND	MA	01721
014/022.0-0043-0100.5	200 BUTTERFIELD DR	BUTTERFIELD REALTY LLC		P O BOX 254		SHERBORN	MA	01770
014/022.0-0043-0100.6	200 BUTTERFIELD DR	BUTTERFIELD REALTY LLC		P O BOX 254		SHERBORN	MA	01770
014/022.0-0043-0100.7	200 BUTTERFIELD DR	NORTHPOINT 230 LLC		18 BONAZZOLI A'		HUDSON	MA	01749
014/022.0-0043-0100.8	200 BUTTERFIELD DR	MNC GROUP LLC		200 BUTTERFIELD		ASHLAND	MA	01721
014/022.0-0043-0100.9	200 BUTTERFIELD DR	BUTTERCUP REALTY TRUST		60 PLEASANT ST SUITE 1		ASHLAND	MA	01721
014/022.0-0043-0101.0	200 BUTTERFIELD DR	HAMMER LLC		33 KATHRYN DR		ASHLAND	MA	01721
014/022.0-0044-0000.0	175 BUTTERFIELD DR	ASHLAND BUTTERFIELD DRIVE		40 TOWER LN SU		AVON	CT	06001
014/022.0-0045-0000.0	157 BUTTERFIELD DR	ENZO REALTY LLC		P O BOX 174		NATICK	MA	01760
014/022.0-0056-0000.0	0 BUTTERFIELD DR	TOWN OF ASHLAND		101 MAIN ST		ASHLAND	MA	01721

parcel count: 15

The information listed above reflects the latest information available for our records.

Richard E. Ball, M.A.A.
Director of Assessing

Date