

PLANS FOR
**THE NARRAGANSETT ELECTRIC COMPANY
AQUIDNECK ISLAND GAS RELIABILITY PROJECT
OLD MILL LANE, PORTSMOUTH, RI**
CIVIL PLAN SET

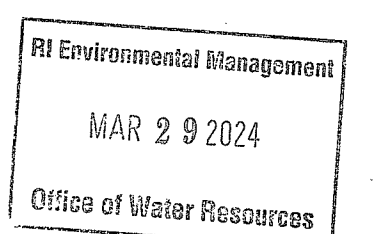


LOCATION MAP
SCALE: 1" = 500'
**OLD MILL LANE
PORTSMOUTH, RHODE ISLAND
TOWN OF PORTSMOUTH
MAP 68 LOT 74**

DRAWING INDEX

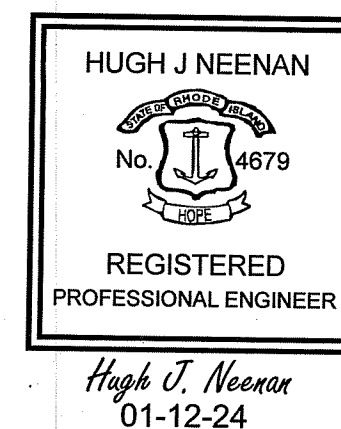
1 OF 8	G-1	COVER SHEET
2 OF 8	G-2	EXISTING CONDITIONS PLAN
3 OF 8	C-1	PROPOSED SITE LAYOUT PLAN
4 OF 8	C-2	CIVIL DETAILS
5 OF 8	C-3	EROSION & SEDIMENT CONTROL PLAN
6 OF 8	C-4	EROSION & SEDIMENT CONTROL DETAILS
7 OF 8		OLD MILL LANE WETLAND MITIGATION/ENHANCEMENT PLAN
8 OF 8		EXISTING CONDITIONS SURVEY SHOWING LOT 74 BOUNDARY

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 24 2025 FILE #: 22-0322
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Ernest D. Senesch



ISSUE	DATE	DESCRIPTION
6	01/12/2024	REVISED CIVIL PLAN SET PER RIDEM COMMENTS
5	11/29/2023	REVISED CIVIL PLAN SET PER RIDEM COMMENTS
4	09/29/2023	REVISED CIVIL PLAN SET FOR NEW LAYOUT
3	05/27/2022	REVISED CIVIL PLAN SET
2	05/05/2022	REVISED CIVIL PLAN SET
1	02/18/2022	CIVIL PLAN SET

PROJECT MANAGER ANKIT DHAR	
DESIGNED BY	B. PAULA
DRAWN BY	W. LIN
CHECKED BY	H. NEENAN
APPROVED BY	A. DHAR
PROJECT NUMBER 10328992	



**RHODE ISLAND ENERGY
AQUIDNECK ISLAND GAS RELIABILITY PROJECT
OLD MILL LANE, PORTSMOUTH, RI**
TOWNSHIP OF PORTSMOUTH
MAP 68, LOT 74

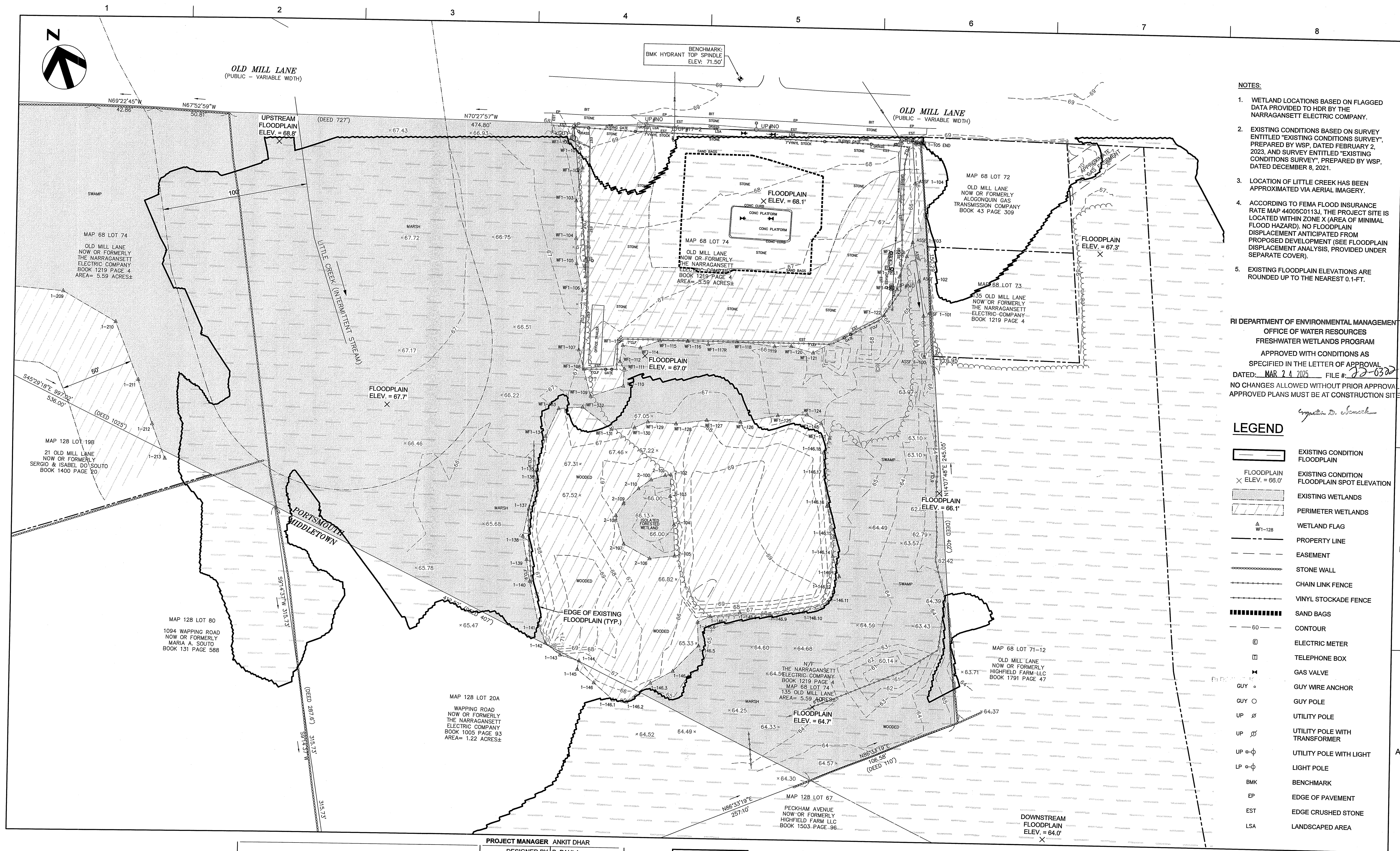
COVER SHEET



FILENAME
SCALE

SHEET 1 OF 8
G-1

PLAN FOR NOTICE

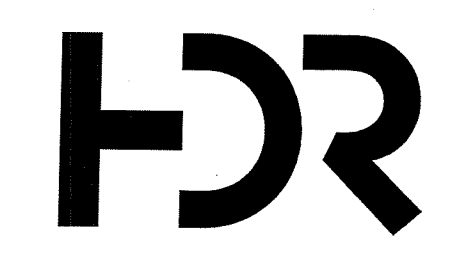


- NOTES:
1. WETLAND LOCATIONS BASED ON FLAGGED DATA PROVIDED TO HDR BY THE NARRAGANSETT ELECTRIC COMPANY.
 2. EXISTING CONDITIONS BASED ON SURVEY ENTITLED "EXISTING CONDITIONS SURVEY", PREPARED BY WSP, DATED FEBRUARY 2, 2023, AND SURVEY ENTITLED "EXISTING CONDITIONS SURVEY", PREPARED BY WSP, DATED DECEMBER 8, 2021.
 3. LOCATION OF LITTLE CREEK HAS BEEN APPROXIMATED VIA AERIAL IMAGERY.
 4. ACCORDING TO FEMA FLOOD INSURANCE RATE MAP 44005C0113J, THE PROJECT SITE IS LOCATED WITHIN ZONE X (AREA OF MINIMAL FLOOD HAZARD). NO FLOODPLAIN DISPLACEMENT ANTICIPATED FROM PROPOSED DEVELOPMENT (SEE FLOODPLAIN DISPLACEMENT ANALYSIS, PROVIDED UNDER SEPARATE COVER).
 5. EXISTING FLOODPLAIN ELEVATIONS ARE ROUNDED UP TO THE NEAREST 0.1-FT.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 24 2025 FILE #: 22-0322
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

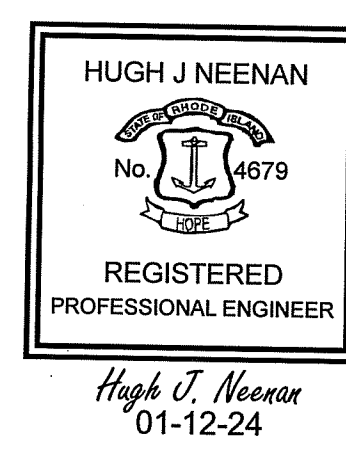
LEGEND

- EXISTING CONDITION FLOODPLAIN
- FLOODPLAIN X ELEV. = 66.0'
- EXISTING CONDITION FLOODPLAIN SPOT ELEVATION
- EXISTING WETLANDS
- PERIMETER WETLANDS
- WETLAND FLAG
- PROPERTY LINE
- EASEMENT
- STONE WALL
- CHAIN LINK FENCE
- VINYL STOCKADE FENCE
- SAND BAGS
- CONTOUR
- ELECTRIC METER
- TELEPHONE BOX
- GAS VALVE
- GUY WIRE ANCHOR
- GUY POLE
- UTILITY POLE
- UTILITY POLE WITH TRANSFORMER
- UTILITY POLE WITH LIGHT
- LIGHT POLE
- BENCHMARK
- EDGE OF PAVEMENT
- EDGE CRUSHED STONE
- LANDSCAPED AREA



ISSUE	DATE	DESCRIPTION
6	01/12/2024	REVISED CIVIL PLAN SET PER RIDEM COMMENTS
5	11/29/2023	REVISED CIVIL PLAN SET PER RIDEM COMMENTS
4	09/29/2023	REVISED CIVIL PLAN SET FOR NEW LAYOUT
3	05/27/2022	REVISED CIVIL PLAN SET
2	05/05/2022	REVISED CIVIL PLAN SET
1	02/18/2022	CIVIL PLAN SET

PROJECT MANAGER	ANKIT DHAR
DESIGNED BY	B. PAULA
DRAWN BY	W. LIN
CHECKED BY	H. NEENAN
APPROVED BY	A. DHAR
PROJECT NUMBER	10328992



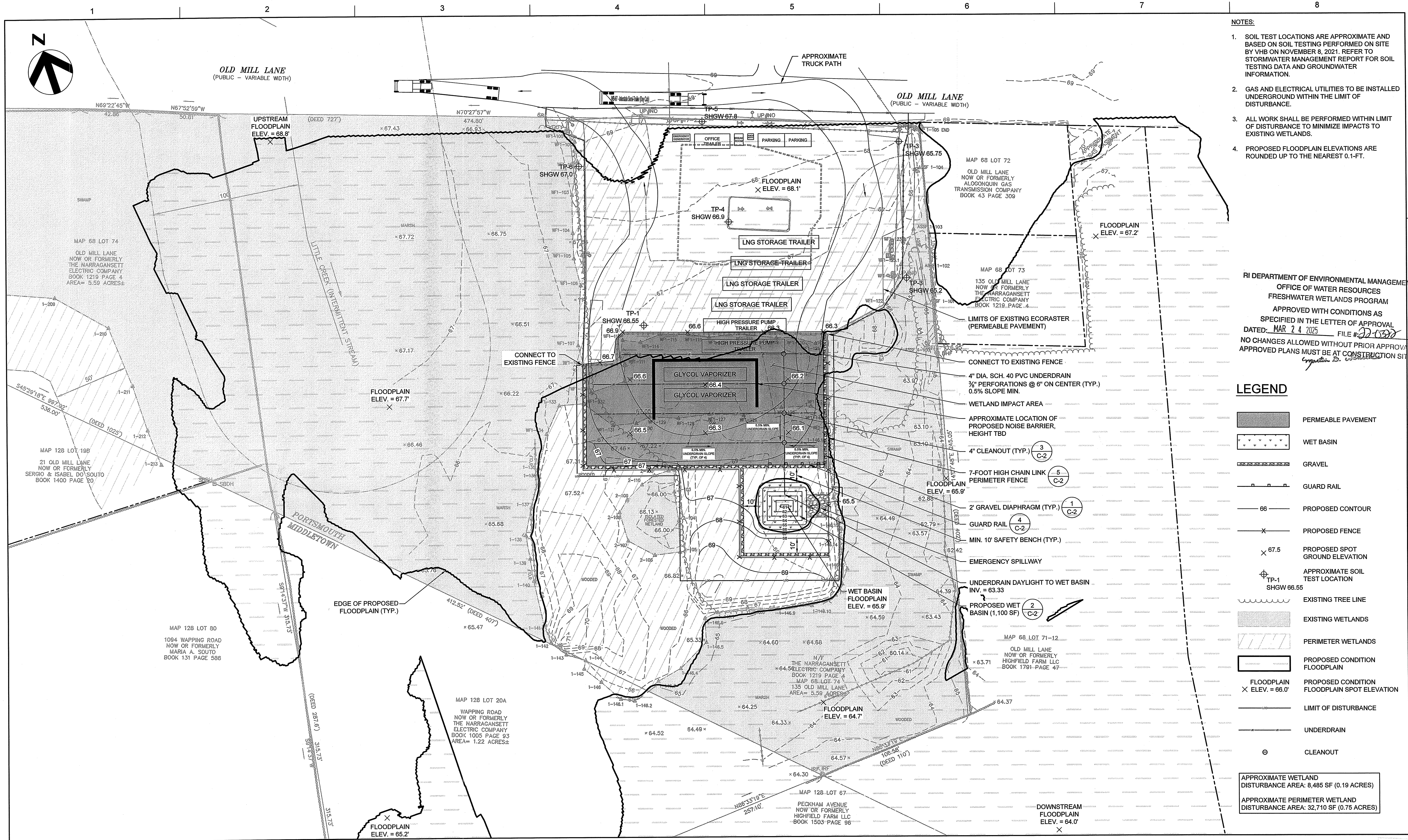
RHODE ISLAND ENERGY
AQUIDNECK ISLAND GAS RELIABILITY PROJECT
OLD MILL LANE, PORTSMOUTH, RI

TOWNSHIP OF PORTSMOUTH
MAP 68, LOT 74

EXISTING CONDITIONS PLAN

0 1" 2"
SCALE 1" = 30'

DATE: MAR 29 2024
SHEET 2 OF 8
G-2

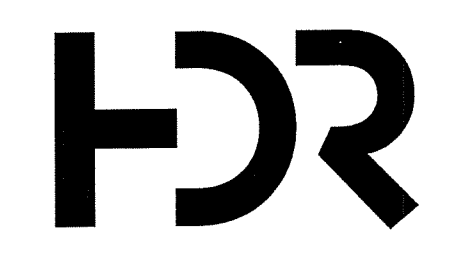


- NOTES:**
1. SOIL TEST LOCATIONS ARE APPROXIMATE AND BASED ON SOIL TESTING PERFORMED ON SITE BY VMB ON NOVEMBER 8, 2021. REFER TO STORMWATER MANAGEMENT REPORT FOR SOIL TESTING DATA AND GROUNDWATER INFORMATION.
 2. GAS AND ELECTRICAL UTILITIES TO BE INSTALLED UNDERGROUND WITHIN THE LIMIT OF DISTURBANCE.
 3. ALL WORK SHALL BE PERFORMED WITHIN LIMIT OF DISTURBANCE TO MINIMIZE IMPACTS TO EXISTING WETLANDS.
 4. PROPOSED FLOODPLAIN ELEVATIONS ARE ROUNDED UP TO THE NEAREST 0.1-FT.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 24 2025 FILE # 22-0522
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

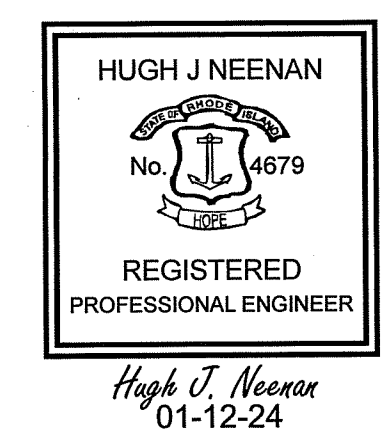
- LEGEND**
- PERMEABLE PAVEMENT
 - WET BASIN
 - GRAVEL
 - GUARD RAIL
 - PROPOSED CONTOUR
 - PROPOSED FENCE
 - PROPOSED SPOT GROUND ELEVATION
 - APPROXIMATE SOIL TEST LOCATION
 - EXISTING TREE LINE
 - EXISTING WETLANDS
 - PERIMETER WETLANDS
 - PROPOSED CONDITION FLOODPLAIN
 - PROPOSED CONDITION FLOODPLAIN SPOT ELEVATION
 - LIMIT OF DISTURBANCE
 - UNDERDRAIN
 - CLEANOUT

APPROXIMATE WETLAND DISTURBANCE AREA: 8,485 SF (0.19 ACRES)
APPROXIMATE PERIMETER WETLAND DISTURBANCE AREA: 32,710 SF (0.75 ACRES)



ISSUE	DATE	DESCRIPTION
6	01/12/2024	REVISED CIVIL PLAN SET PER RIDEM COMMENTS
5	11/29/2023	REVISED CIVIL PLAN SET PER RIDEM COMMENTS
4	09/29/2023	REVISED CIVIL PLAN SET FOR NEW LAYOUT
3	05/27/2022	REVISED CIVIL PLAN SET
2	05/05/2022	REVISED CIVIL PLAN SET
1	02/18/2022	CIVIL PLAN SET

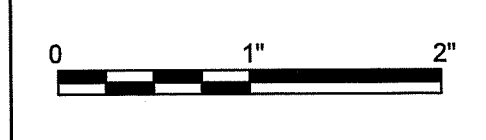
PROJECT MANAGER	ANKIT DHAR
DESIGNED BY	B. PAULA
DRAWN BY	W. LIN
CHECKED BY	H. NEENAN
APPROVED BY	A. DHAR
PROJECT NUMBER	10328992



**RHODE ISLAND ENERGY
AQUIDNECK ISLAND GAS RELIABILITY PROJECT
OLD MILL LANE, PORTSMOUTH, RI**

TOWNSHIP OF PORTSMOUTH
MAP 68, LOT 74

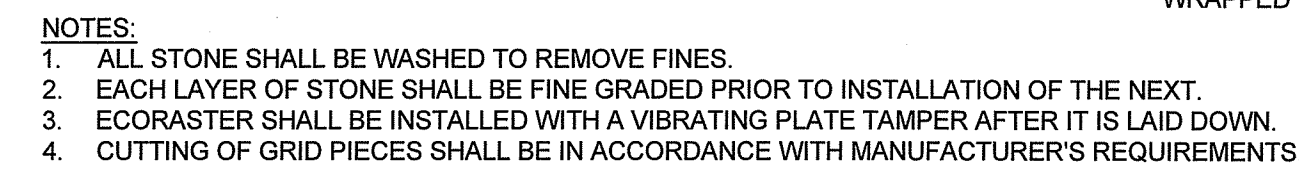
PROPOSED SITE LAYOUT PLAN



FILENAME
SCALE 1" = 30'

SHEET 3 OF 8
C-1

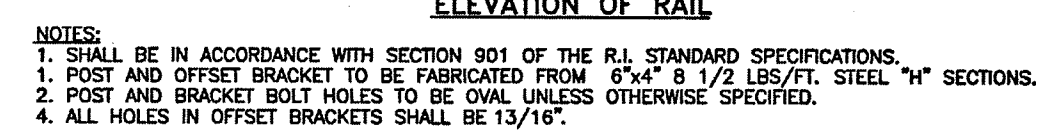
MAR 29 2024
118 Connecticut Avenue
02882-1000
Tel: 617.252.0800
Fax: 617.252.0801
www.hdr.com



PERMEABLE PAVEMENT AND GRAVEL DIAPHRAGM DETAIL

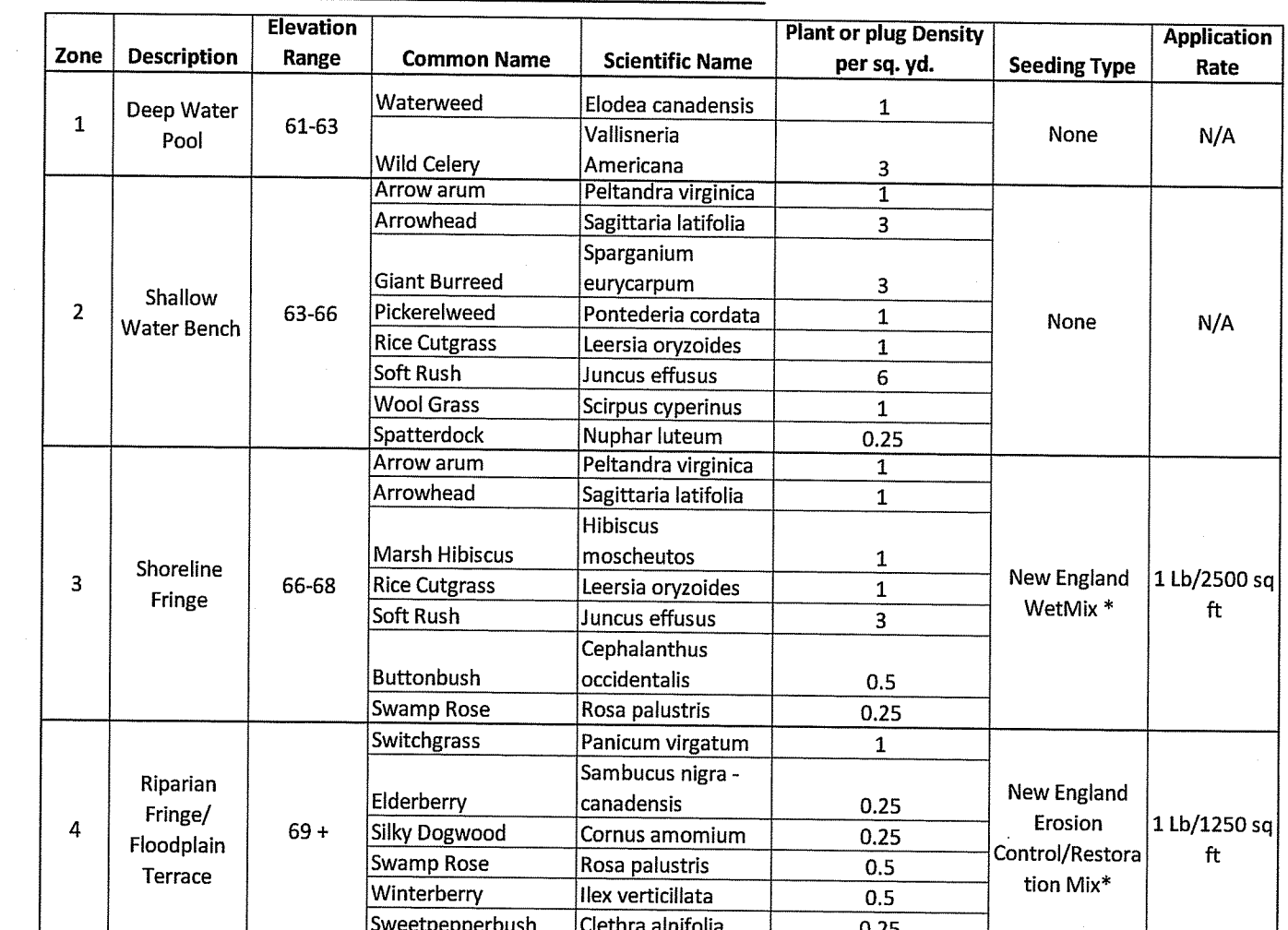
NOT TO SCALE

1

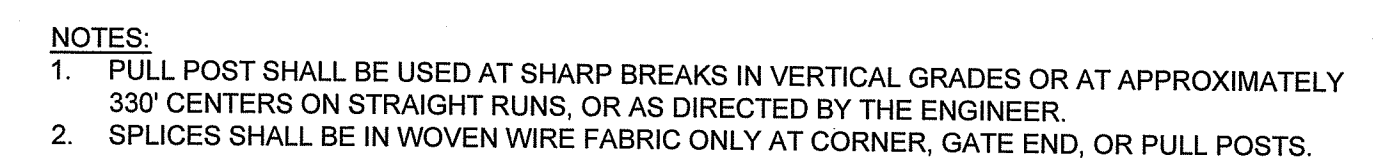


GUARD RAIL DETAIL

NOT TO SCALE



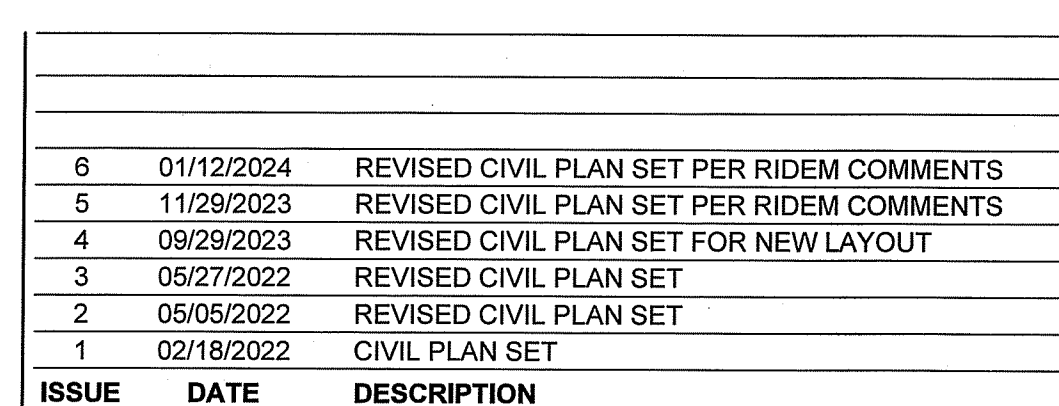
RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 24 2025 FILE #: 02-0320
~~NO CHANGES~~ ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE



FENCE DETAIL

NOT TO SCALE

5
-



PROJECT MANAGER	ANKIT DHAR
DESIGNED BY	B. PAULA
DRAWN BY	W. LIN
CHECKED BY	H. NEENAN
APPROVED BY	A. DHAR



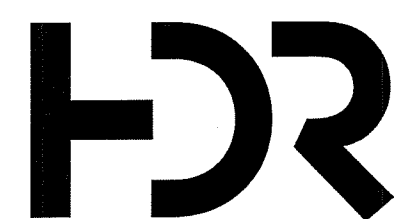
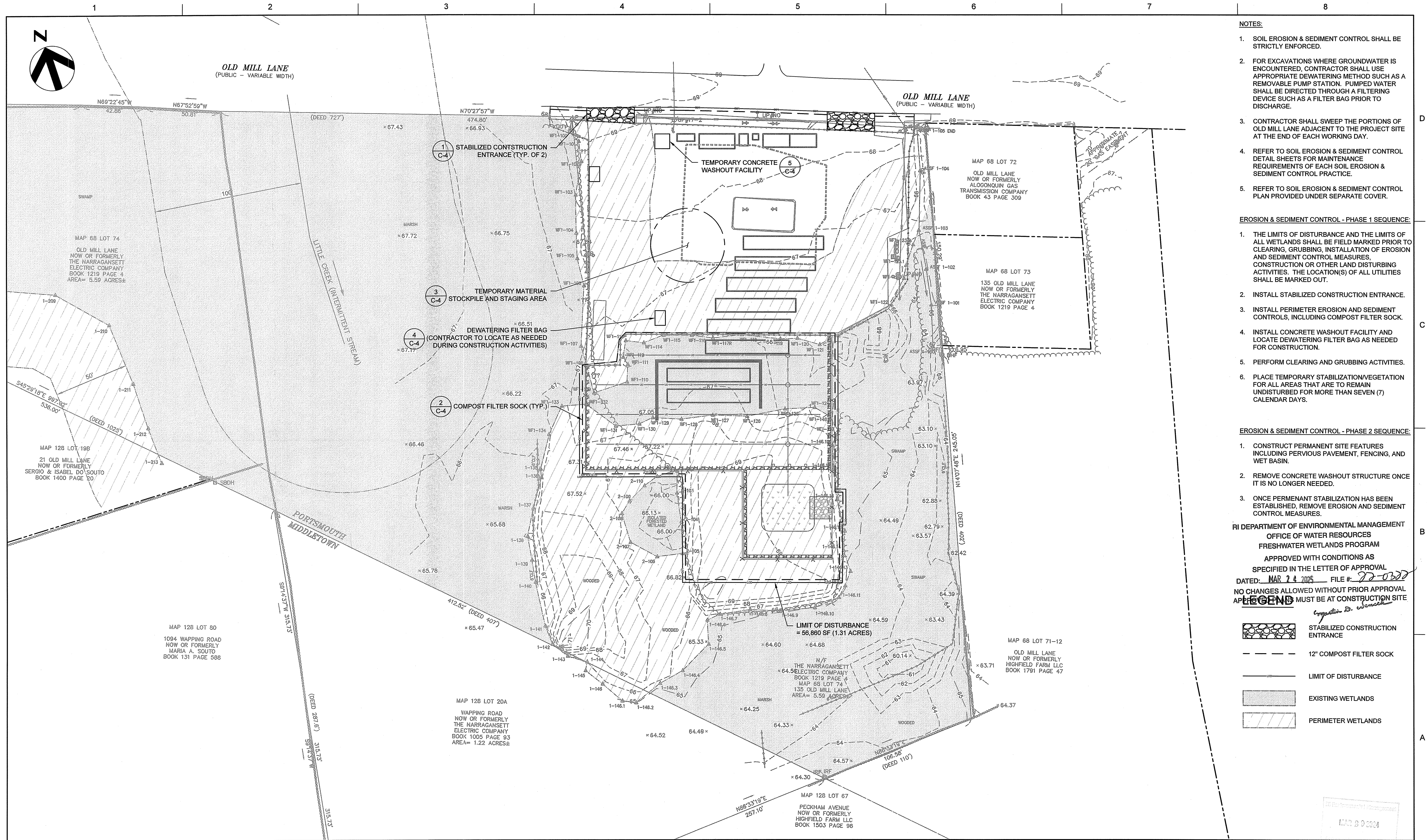
**TOWNSHIP OF PORTSMOUTH
MAP 68, LOT 74**

CIVIL DETAILS

FILENAME	
SCALE	NOT TO SCALE

SHEET 4 OF 8

C-2

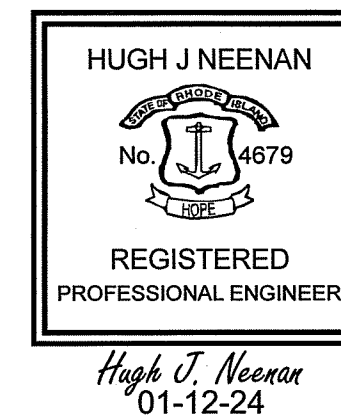


ISSUE	DATE	DESCRIPTION
6	01/12/2024	REVISED CIVIL PLAN SET PER RIDEM COMMENTS
5	11/29/2023	REVISED CIVIL PLAN SET PER RIDEM COMMENTS
4	09/29/2023	REVISED CIVIL PLAN SET FOR NEW LAYOUT
3	05/27/2022	REVISED CIVIL PLAN SET
2	05/05/2022	REVISED CIVIL PLAN SET
1	02/18/2022	CIVIL PLAN SET

PROJECT MANAGER ANKIT DHAR

DESIGNED BY B. PAULA
DRAWN BY W. LIN
CHECKED BY H. NEENAN
APPROVED BY A. DHAR

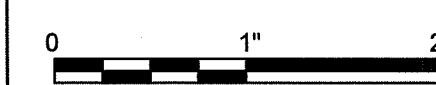
PROJECT NUMBER 10328992



**RHODE ISLAND ENERGY
AQUIDNECK ISLAND GAS RELIABILITY PROJECT
OLD MILL LANE, PORTSMOUTH, RI**

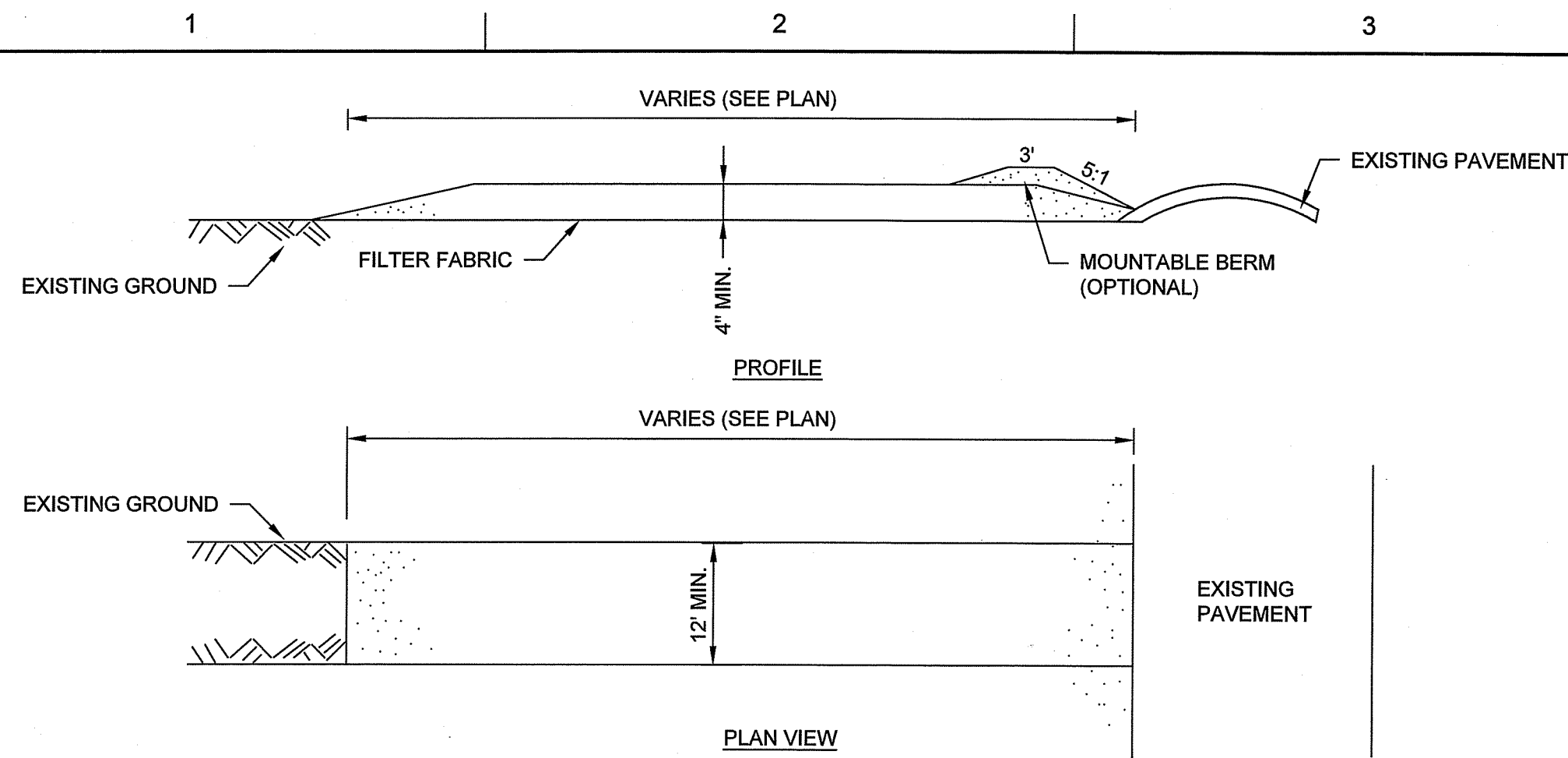
TOWNSHIP OF PORTSMOUTH
MAP 68, LOT 74

EROSION & SEDIMENT CONTROL PLAN



FILENAME
SCALE 1" = 30'

SHEET 5 OF 8
C-3

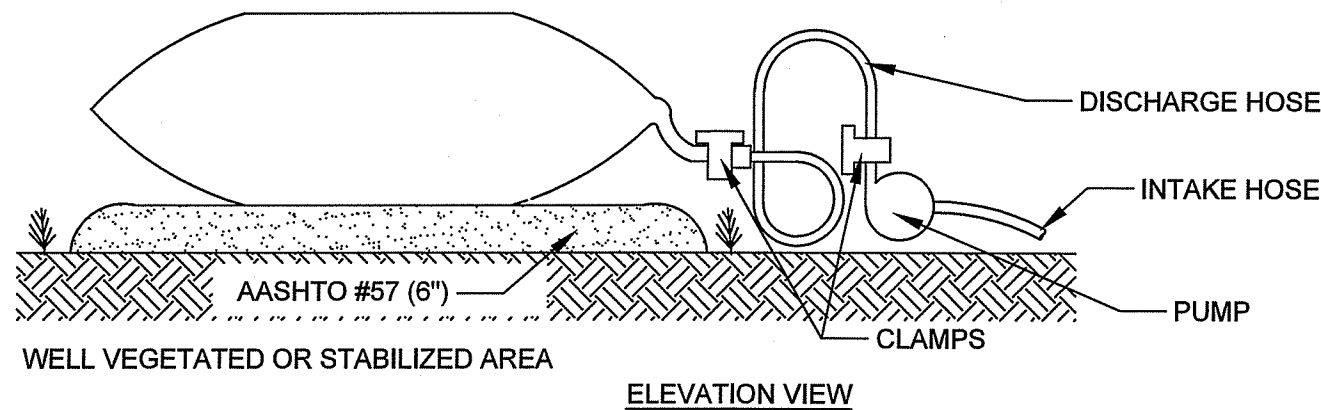
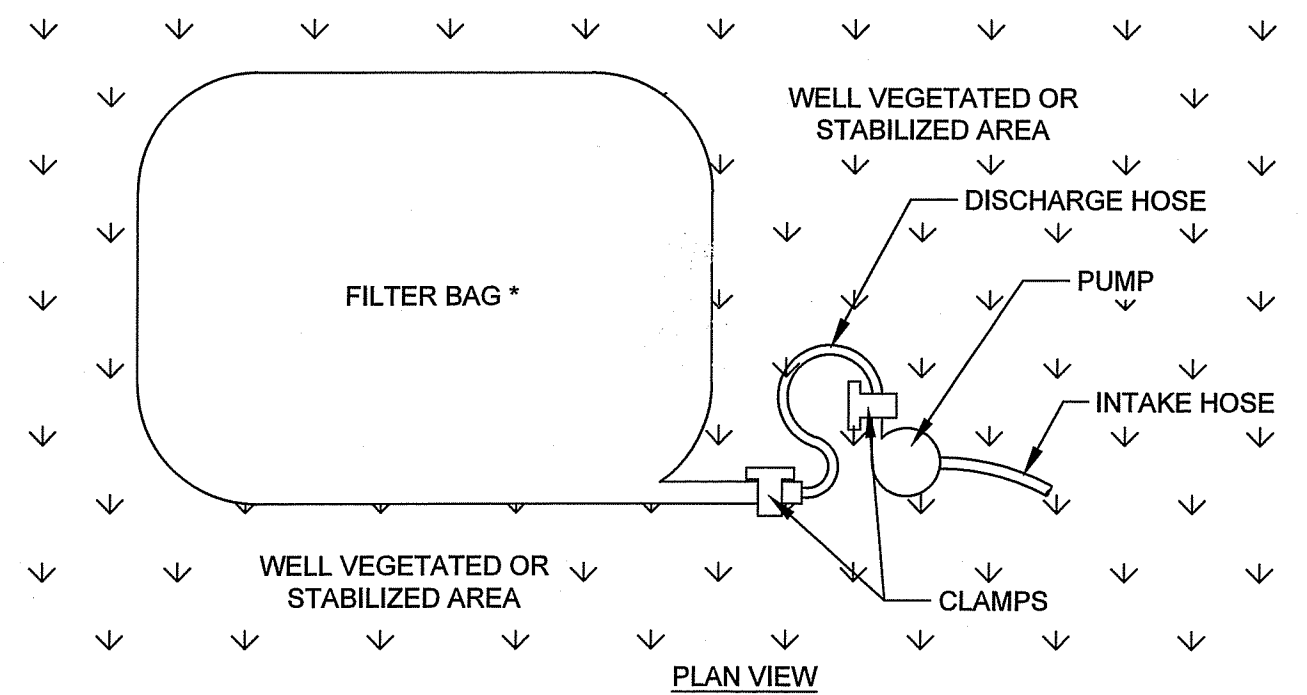


CONSTRUCTION SPECIFICATIONS:

1. STONE SIZE - USE RI DOT 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 100 FEET.
3. THICKNESS - NOT LESS THAN FOUR (4) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

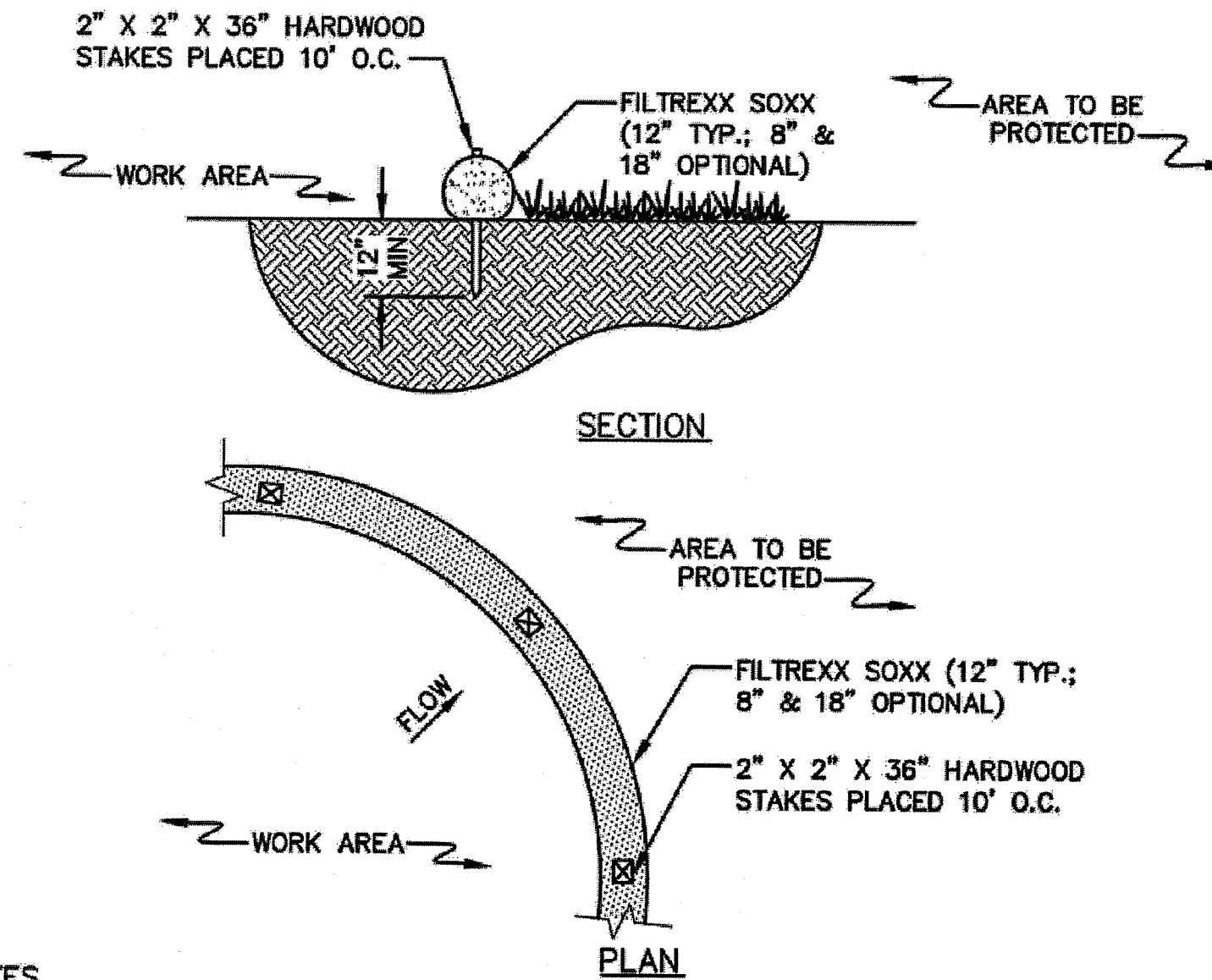


NOTES:

1. * NON-WOVEN GEOTEXTILE FILTER BAG WHICH RETAINS ALL SEDIMENT PARTICLES LARGER THAN 150 MICRONS.
2. PLACE FILTER BAGS ON STABLE OR WELL VEGETATED AREAS WHICH ARE FLATTER THAN 5% AND WHICH WILL NOT ERODE WHEN SUBJECTED TO BAG DISCHARGES.
3. CLAMP PUMP DISCHARGE HOSES SECURELY INTO FILTER BAGS. LIMIT PUMPING RATE TO 1/2 THE MANUFACTURER'S MAXIMUM PUMPING RATE.
4. WHEN SEDIMENTS FILL 1/2 THE VOLUME OF A FILTER BAG, IMMEDIATELY REMOVE THAT BAG FROM SERVICE.
5. PROPERLY DISPOSE OF SPENT BAGS WITH THEIR SEDIMENTS.
6. THE DISCHARGE FROM THE FILTER BAG SHOULD NOT PASS THROUGH A DISTURBED AREA OR CAUSE AN EROSION PROBLEM DOWN SLOPE.

DEWATERING FILTER BAG DETAIL

NOT TO SCALE

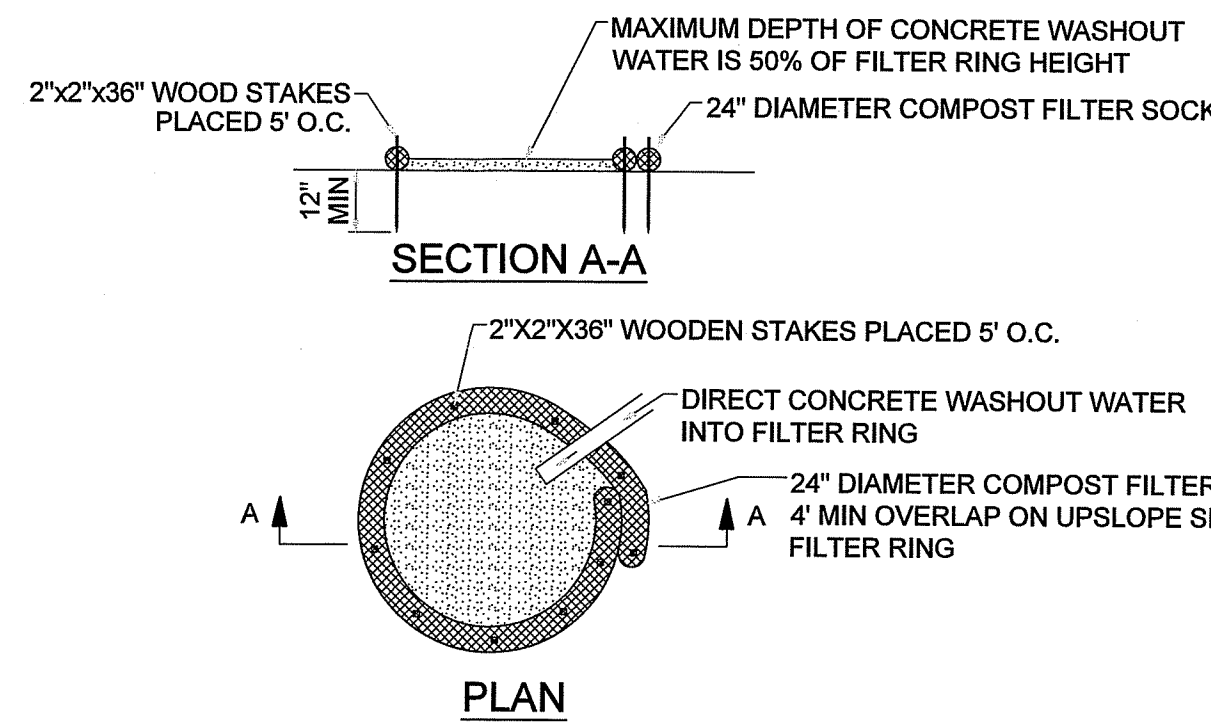


NOTES:

1. PRODUCT TO BE FILTREXX SILT SOXX OR APPROVED EQUAL BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.
2. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
3. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
4. MESH CONTAINMENT MATERIAL SHOULD BE KNITPHOTODEGRADABLE OR BIODEGRADABLE MATERIAL, WITH OPENING SIZES BETWEEN 1/8" - 3/8".
5. COMPOST MEDIA SHOULD HAVE PARTICLE SIZE WHERE 98% < 2", 50% > 1/2".
6. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY NATIONAL GRID ENVIRONMENTAL SCIENTIST.

COMPOST FILTER SOCK DETAIL

NOT TO SCALE



NOTES:

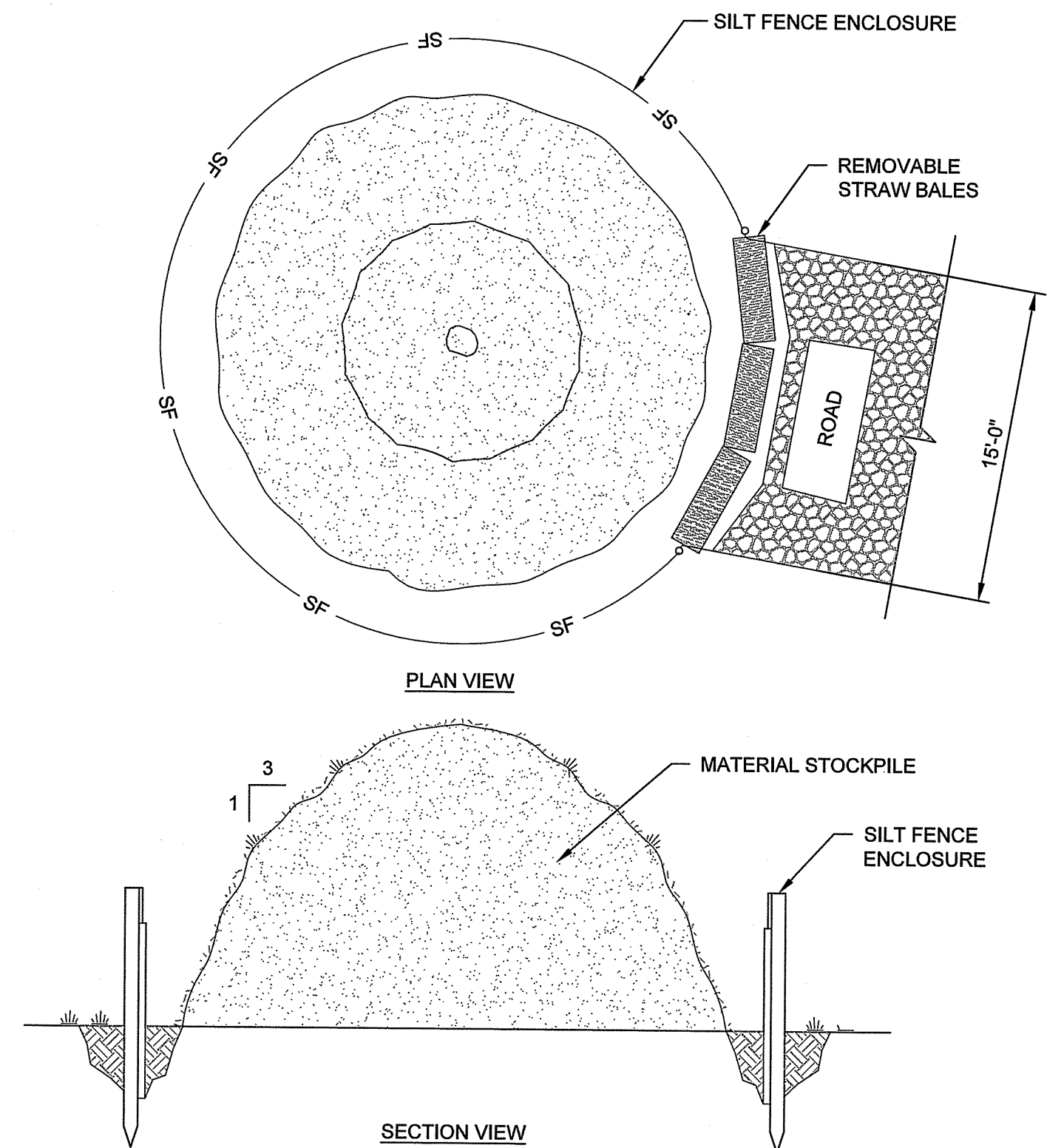
1. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
2. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
3. FOR ANY PROJECT ON WHICH CONCRETE WILL BE POURED OR OTHERWISE FORMED ON SITE, A SUITABLE WASHOUT FACILITY MUST BE PROVIDED FOR THE CLEANING OF CHUTES, MIXERS, AND HOPPERS OF THE DELIVERY VEHICLES UNLESS SUCH A FACILITY WILL BE USED AT THE SOURCE OF THE CONCRETE. UNDER NO CIRCUMSTANCES MAY WASH WATER FROM THESE VEHICLES BE ALLOWED TO ENTER ANY SURFACE WATERS.
4. MAKE SURE THAT PROPER SIGNAGE IS PROVIDED TO DRIVERS SO THAT THEY ARE AWARE OF THE PRESENCE OF WASHOUT FACILITIES.
5. WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS. THEY SHOULD BE IN A CONVENIENT LOCATION FOR THE TRUCKS, PREFERABLY NEAR THE PLACE WHERE THE CONCRETE IS BEING POURED, BUT FAR ENOUGH FROM OTHER VEHICULAR TRAFFIC TO MINIMIZE THE POTENTIAL FOR ACCIDENTAL DAMAGE OR SPILLS. WHEREVER POSSIBLE, THEY SHOULD BE LOCATED ON SLOPES NOT EXCEEDING A 2% GRADE.

MAINTENANCE:

ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED IMMEDIATELY. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

CONCRETE WASHOUT DETAIL

NOT TO SCALE



NOTES:

1. SOIL REMOVED DURING SITE PREPARATION SHALL BE STOCKPILED ON-SITE AT A MAXIMUM SLOPE OF 3:1.
2. STOCKPILE SHALL BE ENCIRCLED WITH SILT FENCING, AS PER SILT FENCING DETAIL, WITH PASSAGEWAY PROVIDED FOR EQUIPMENT ACCESS.

TEMPORARY MATERIAL STOCKPILE DETAIL

NOT TO SCALE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 24 2025 FILE #: 22-0328
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

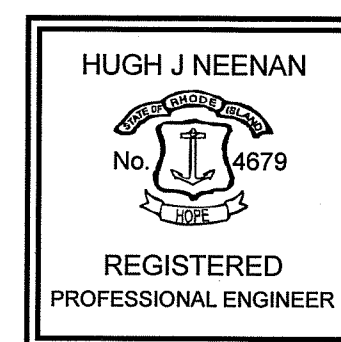
Jonathan D. Wenzel



ISSUE	DATE	DESCRIPTION
6	01/12/2024	REVISED CIVIL PLAN SET PER RIDEM COMMENTS
5	11/29/2023	REVISED CIVIL PLAN SET PER RIDEM COMMENTS
4	09/29/2023	REVISED CIVIL PLAN SET FOR NEW LAYOUT
3	05/27/2022	REVISED CIVIL PLAN SET
2	05/05/2022	REVISED CIVIL PLAN SET
1	02/18/2022	CIVIL PLAN SET

PROJECT MANAGER ANKIT DHAR

DESIGNED BY	B. PAULA
DRAWN BY	W. LIN
CHECKED BY	H. NEENAN
APPROVED BY	A. DHAR
PROJECT NUMBER	10328992

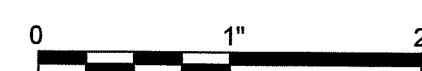


Hugh J. Neenan
01-12-24

RHODE ISLAND ENERGY
AQUIDNECK ISLAND GAS RELIABILITY PROJECT
OLD MILL LANE, PORTSMOUTH, RI

TOWNSHIP OF PORTSMOUTH
MAP 68, LOT 74

EROSION & SEDIMENT CONTROL DETAILS



FILENAME
SCALE NOT TO SCALE

SHEET 6 OF 8
C-4

SEEDING NOTES

1. NEW ENGLAND WETMIX TO BE USED WITHIN FLAGGED WETLAND AND INSTALLED VIA SLICE SEEDING.

FROM NEW ENGLAND WETLAND PLANTS, INC. AMHERST, MASSACHUSETTS

SEEDING: ALWAYS APPLY ON CLEAN BARE SOIL. THE WETLAND SEEDS IN THIS MIX CAN BE HAND SOWN, USED WITH A HAND-HELD SPREADER, OR HYDRO-SEEDING ON LARGE OR HARD TO REACH SITES, AS LONG AS THERE IS NO PERMANENT SNOW COVER. LIGHTLY RAKE TO ENSURE PROPER SOIL-SEED CONTACT. SEEDING CAN TAKE PLACE ON FROZEN SOIL, AS THE FREEZING, THAWING WEATHER OF LATE FALL AND LATE WINTER WILL WORK THE SEEDS INTO THE SOIL. SEEDING CONDITIONS AFTER DROUGHTS: IF DROUGHTS ARE SEVERE, WATERING MAY BE REQUIRED. DURING THE SUMMER MONTHS, WATERING MAY BE REQUIRED FOR PLANTS TO ESTABLISH. WATERING AFTER SEEDS ARE IN GROUND: A NON-INVASIVE ANNUAL SUCH AS WINTER RYE MAY BE ADDED TO THE MIX TO OBTAIN SOIL STABILIZATION COVER IN THE FALL. DO NOT ADD ANNUAL RYEGRASS, KENTUCKY BLUEGRASS OR PERENNIAL RYEGRASS AS THESE SPECIES ARE VERY AGGRESSIVE AND THEY WILL INHIBIT THE GROWTH OF THE WETLAND PLANTS. IT IS MUCH BETTER TO HAVE A MIX THAT DOES NOT REQUIRE WATERING. NOTE: SEEDS WILL NOT GERMINATE UNDER INADEQUATE CONDITIONS. NOT ALL SPECIES WILL GROW IN ALL WETLAND SITUATIONS.

APPLICATION RATE: 1 LB/2500 SQ. FT.

TYPICAL SPECIES: FOX SEDGE (*CAREX VULPINOLIDA*), SALLOW SEDGE (*CAREX LURIDA*), BROOM SEDGE (*CAREX SCOPARIA*), SENSITIVE FERN (*ONOCLEA SENSIIBILIS*), BLUE VERVAIN (*VERBENA HASTATA*), HOP SEDGE (*CAREX LUPULINA*), DARK-GREEN BULRUSH (*SCIRPUS ATROVIRENS*), NODDING BUR-MARIGOLD (*IDIBENS CANTONIA*), BRISTLY SPURGE (*ERIGONIA CANADENSIS*), BLUE FLAX (*VERBENA FLACIDA*), TALL MANNAGRASS (*GLYCYRIA GRANDIS*), WOOD-GRASS (*SCIRPUS VERNIPERUS*), SOUT RUSH (*JUNCUS VIRGINICUS*), BLUE-STEMMED BULRUSH (*SCIRPUS MACULATUS*), BONASET (*EPUPATORIUM PERFORIATUM*), AMERICAN WATER-PLANTAIN (*ALISMA SUBCORDATUM*), NEW ENGLAND ASTER (*SYMPHYOTRICHUM NOVAE-ANGLIAE*), RATTLESNAKE MANNAGRASS (*GLYCYRIA CANADENSIS*), PURPLE SPURGE (*ERIGONIA CANADENSIS*), BLUE-STEMMED BULRUSH (*SCIRPUS MACULATUS*), SCHOENOPLECTUS TABERNAMONTANA, BLUE FLAG (*IRIS VIRIDIS*), SWAMP MILKWEED (*ASCLEPIAS INCARNATA*), AND ALLEGHENY MONKEY-FLOWER (*MIMULUS RINGENS*).

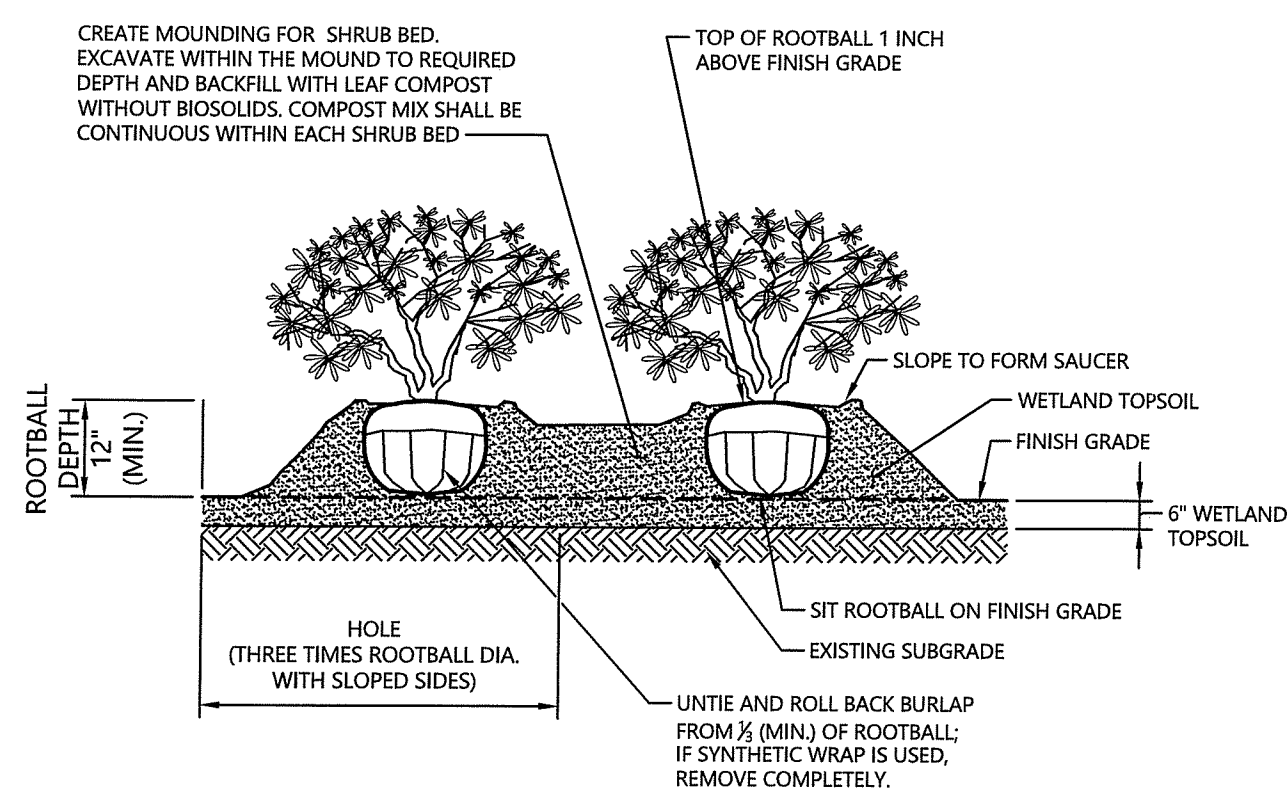
2. SEED MIX TO BE USED IN THE 50-FOOT PERIMETER WETLAND WILL BE COMPRISED OF A NATIVE POLLINATOR MIX.

Recommended Pollinator Habitat Seed Mix Table

Common name	Scientific name	Percent composition
Little Bluestem	<i>Schizachyrium scoparium</i>	35.0%
Sundial Lupine	<i>Lupinus perennis</i>	15.0%
Partridge Pea	<i>Chamaecrista fasciculata</i>	15.0%
Round-head Bush Clover	<i>Lespedeza capitata</i>	11.0%
Wild Bergamot	<i>Monarda fistulosa</i>	10.0%
Butterfly Milkweed	<i>Asclepias tuberosa</i>	10.0%
Hyssop-leaved Thoroughwort	<i>Eupatorium hyssopifolium</i>	1.1%
Show Goldenrod	<i>Solidago speciosa</i>	1.0%
Gray Goldenrod	<i>Solidago nemoralis</i>	1.0%
Blue Wood (Heartleaf) Aster	<i>Symphyctichthys cordifolius</i>	0.5%
False Indigo	<i>Baptisia tinctoria</i>	0.2%
New York Ironweed	<i>Vernonia noveboracensis</i>	0.2%

APPLY POLLINATOR MIX AT 5LBS/ACRE.

NOTE: THIS MIX MAY BE VARIED BASED ON SEED AVAILABILITY. THE ADDITION OF OTHER NATIVE SPECIES, INCLUDING GRASSES IS ENCOURAGED. THE MIX SHALL PRODUCE A HIGH QUALITY PERENNIAL MIX THAT IS HIGHLY ATTRACTIVE TO POLLINATORS. USE SLICE SEEDING TO INSTALL THE SEED.

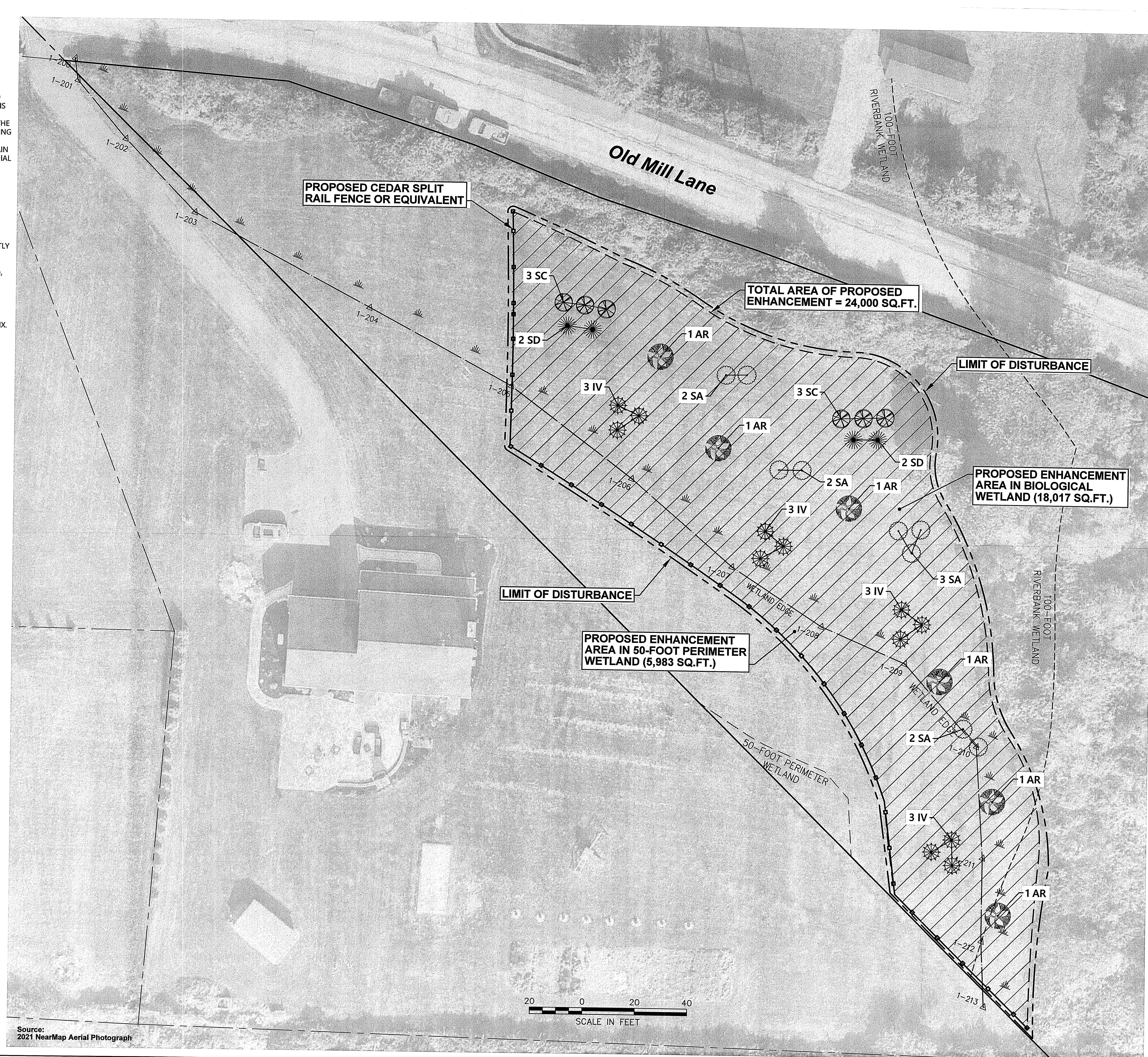


NOTES

1. LOOSEN ROOTS AT THE OUTER EDGE OF ROOTBALL OF CONTAINER GROWN SHRUBS.

Shrub Planting

N.T.S. Source: VHB LD 601R



<u>SHRUBS</u>	<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SIZE</u>	<u>QUANTITY</u>
IV	Ilex verticillata	 Winterberry	2 - 3' Height	12
SC	Sambucus canadensis	 American Elderberry	2 - 3' Height	6
SD	Salix discolor	 Pussy Willow	2 - 3' Height	4
SA	Swida amomum	 Silky Dogwood	2 - 3' Height	9

<u>TREES</u>	<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>	<u>SIZE</u>	<u>QUANTITY</u>
AR	Acer rubrum	 Red Maple	3' Height	6

Legend	
	Verified Wetland Flag
	Verified Wetland Edge
	50' Perimeter Wetland
	100' Riverbank Wetland
	Proposed Enhancement Area
	Proposed Cedar Split Rail Fence or Equivalent
	Proposed Limit of Disturbance

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 24 2015 FILE #: 02-0322
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Old Mill Lane Wetland Mitigation/Enhancement Plan

Old Mill Lane
Portsmouth, Rhode Island

No.	Revision	Date	Appvd.
1	RESPONSE TO RIDEM'S DEC. 12, 2022 COMMENTS	09-29-2023	
2	RIDEM COMMENT RESPONSE	11-15-2023	

Designed by	Checked by
-------------	------------

RIDEM Application to 6-22-2022
Alter Freshwater Wetlands

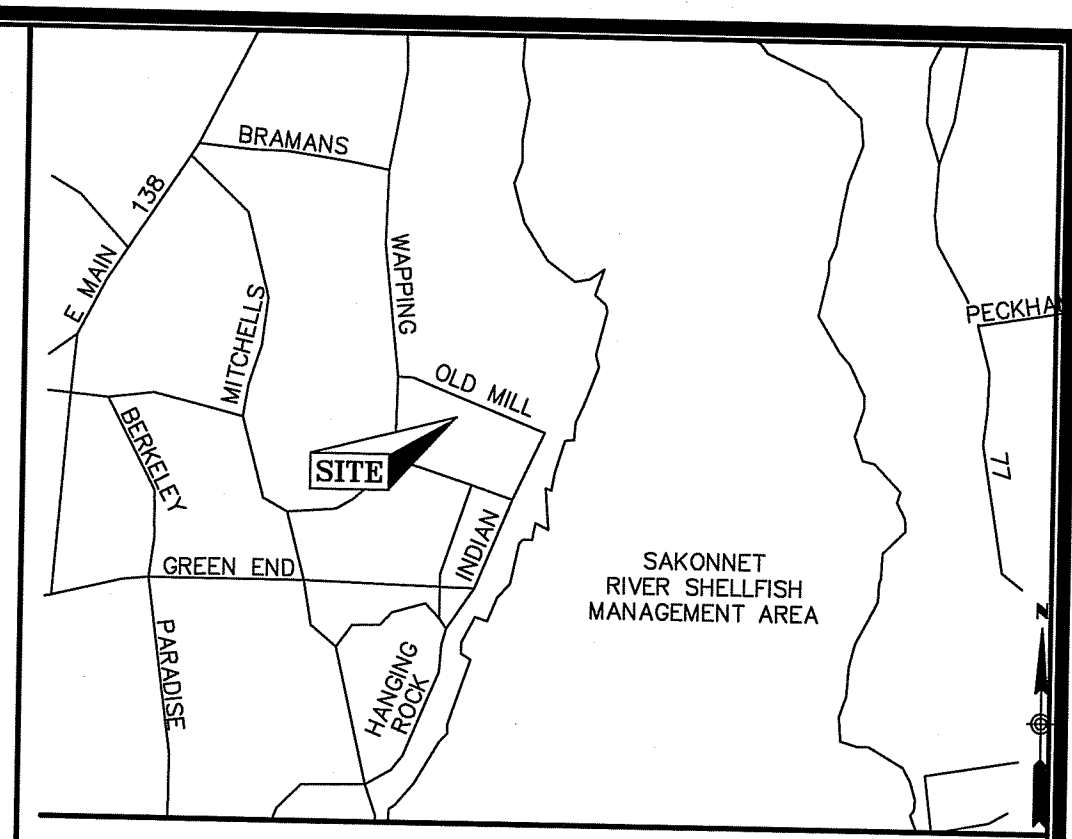
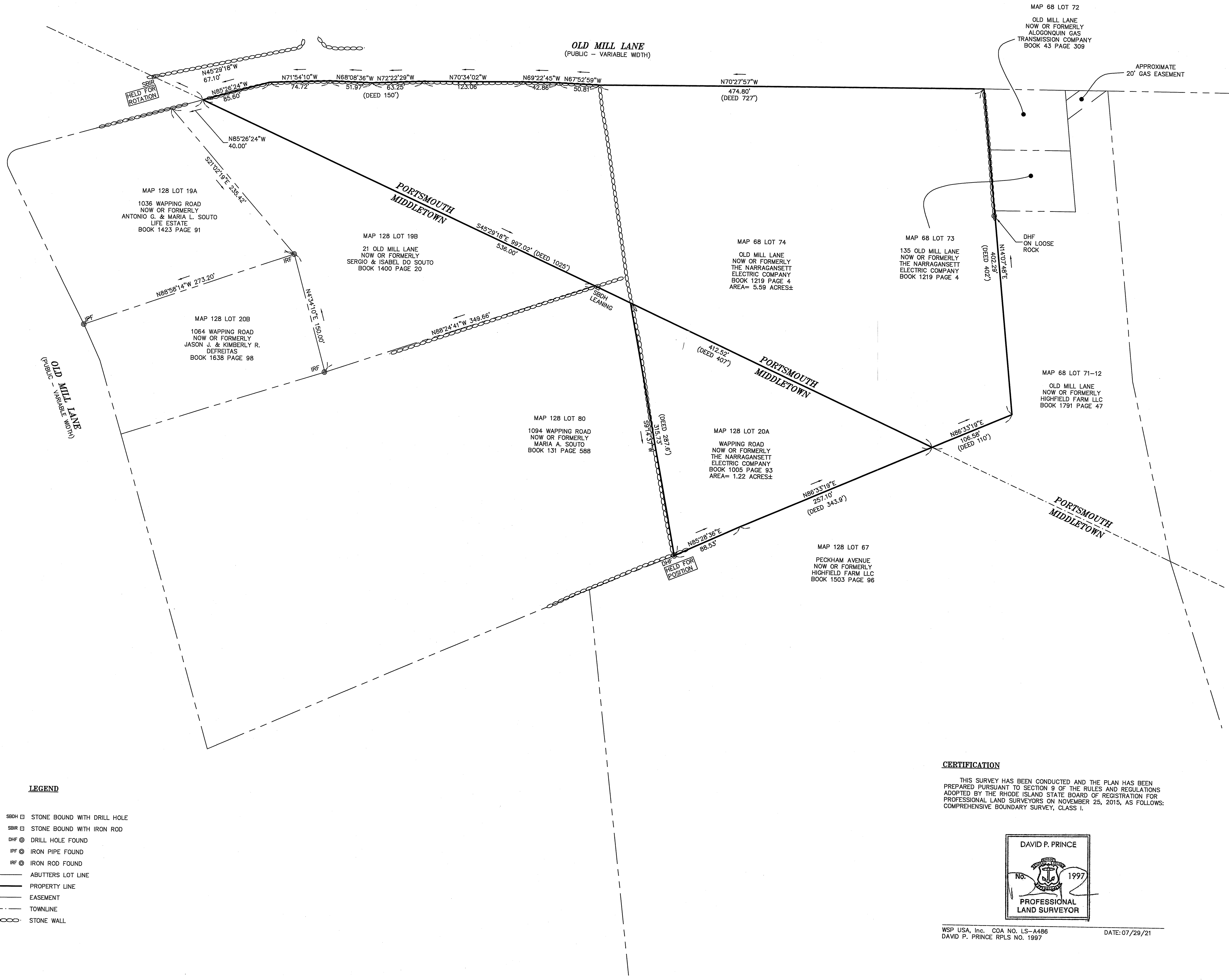
Drawing Title

Planting Plan

P-1

SHEET
7 of 8

Product Number
195.00



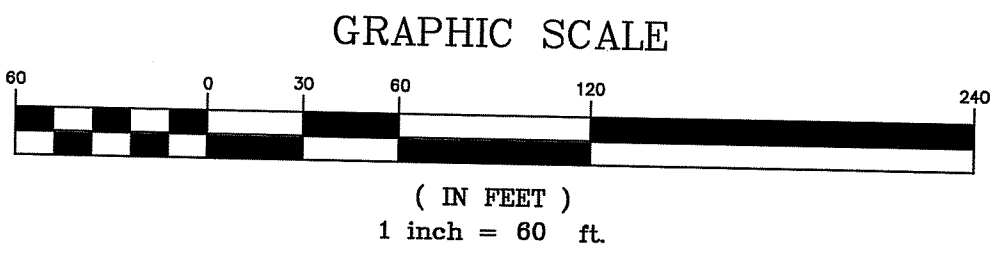
NOTES

1. THIS PLAN WAS PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP IN JULY OF 2021.

2. THE BEARING SYSTEM SHOWN HEREON IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983, RHODE ISLAND STATE PLANE COORDINATE SYSTEM AND WAS ESTABLISHED UTILIZING RTK GPS SURVEY TECHNIQUES REFERENCE THE SMARTNET GPS NETWORK.

3. THE SURVEYED PROPERTY IS SUBJECT BUT NOT LIMITED TO THE INFORMATION SHOWN HEREON. ALL INFORMATION THAT MAY AFFECT THE QUALITY OF THE TITLE TO BOTH THE SUBJECT AND ADJOINING PARCELS SHOULD BE VERIFIED BY AN ACCURATE AND CURRENT TITLE REPORT. THIS SURVEY WAS CONDUCTED IN THE PRESENCE OF THE CURRENT TITLE REPORT.

OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: MAR 24 2025 FILE #: 22-0322
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
PLAN APPROVAL
PLAN APPROVAL
1. PLAN ENTITLED "ADMINISTRATIVE SUBDIVISION, MIDDLE CREEK FARM, LLC, A.P. 128 LOT 67 (MIDDLETOWN), A.P. 68, LOT 71-12 (PORTSMOUTH), MIDDLETOWN, RHODE ISLAND." DATED JUNE 29, 2016, PREPARED BY NORTHEAST ENGINEERS & CONSULTANTS, INC. RECORDED IN THE TOWN CLERK'S OFFICE OF MIDDLETOWN, RHODE ISLAND AS PLAN 1644.
2. PLAN ENTITLED "ADMINISTRATIVE SUBDIVISION, OVERALL PLAN, MIDDLE CREEK FARM, LLC, A.P. 128 LOT 67 (MIDDLETOWN), A.P. 68, LOT 71-12 (PORTSMOUTH), MIDDLETOWN, RHODE ISLAND." DATED FEBRUARY 6, 2015, PREPARED BY NORTHEAST ENGINEERS & CONSULTANTS, INC. RECORDED IN THE TOWN CLERK'S OFFICE OF MIDDLETOWN, RHODE ISLAND AS PLAN 2015-1.
3. PLAN ENTITLED "MINOR SUBDIVISION PLAN," DATED DECEMBER 3, 2013, PREPARED BY MOUNT HOPE ENGINEERING, RECORDED IN THE TOWN CLERK'S OFFICE OF MIDDLETOWN, RHODE ISLAND AS PLAN 2014-27.
4. PLAN ENTITLED "PARCELS A, B, & C, LAND OF EDUARDO MEDEIROS SOUTO, ET ALS., MIDDLETOWN, RHODE ISLAND," DATED MARCH 27, 1980, PREPARED BY HAROLD E. ST. JOHN, RECORDED IN THE TOWN CLERK'S OFFICE OF MIDDLETOWN, RHODE ISLAND AS PLAN BOOK 13 MAP 68.
5. PLAN ENTITLED "LAND OF ESTATE JOHN O. BETTENCOURT, OLD MILL LANE, PORTSMOUTH, R.I." DATED SEPTEMBER 15, 1972, PREPARED BY FRANKS J. O'LOUGHLIN, RECORDED IN THE TOWN CLERK'S OFFICE OF PORTSMOUTH, RHODE ISLAND.
6. PLAN ENTITLED "LAND OF SEVENTEEN INC., PORTSMOUTH, RHODE ISLAND," DATED JULY 15, 1960, PREPARED BY HAROLD E. ST. JOHN, RECORDED IN THE TOWN CLERK'S OFFICE OF PORTSMOUTH, RHODE ISLAND AS 1-D-2-MAP-2



REVISION	
DATE	DESCRIPTION
---/---/---	---

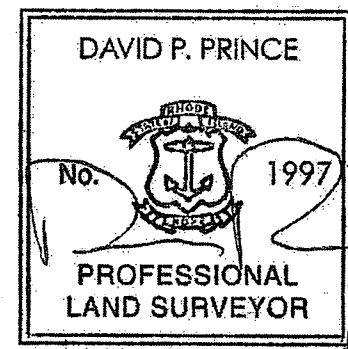
PLAN OF LAND
OLD MILL LANE
PORTSMOUTH, RHODE ISLAND
PREPARED FOR
NARRAGANSETT ELECTRIC COMPANY
d/b/a NATIONAL GRID

Prepared for:
nationalgrid
LAND SURVEYING DEPARTMENT
40 SYLVAN RD.
WALTHAM, MA 02451

Prepared by:
wsp
WSP USA Inc.
9 Executive Park Dr, Suite 101
Merrimack, NH 03064
603-324-0894

Project #	30901161.001	Date	JULY 28, 2021
Work Order #	90000204811	Scale: Drawn: 1"=60'	Sheet No.
Drawing	30901161.001-1.dwg	Scale: Plotted: 1"=60'	1 OF 1

CERTIFICATION
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS: COMPREHENSIVE BOUNDARY SURVEY, CLASS 1.



WSP USA, Inc. COA NO. LS-A486
DAVID P. PRINCE RPLS NO. 1997
DATE: 07/28/21

30901161.001-1.dwg