

S171/T172 REBUILD TRANSMISSION LINE

STRUCTURE 17

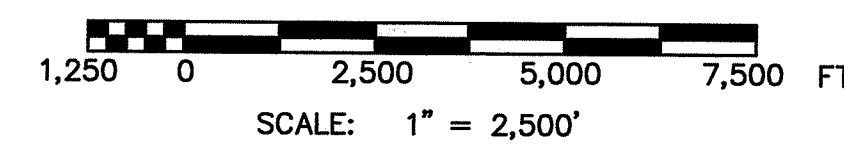
GREENVILLE ROAD
NORTH SMITHFIELD, RHODE ISLAND

JUNE 17, 2024

REVISED: 8/20/2024



SITE MAP



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NOT FOR CONSTRUCTION

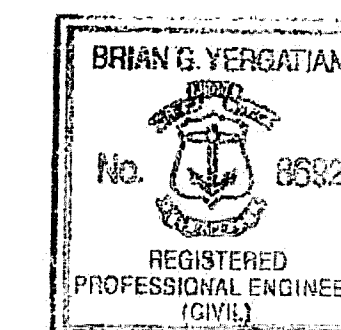
INDEX OF DRAWINGS

1 OF 5	COVER SHEET
2 OF 5	EXISTING CONDITIONS PLAN
3 OF 5	SITE PLAN
4 OF 5	TYPICAL SECTIONS, NOTES & LEGEND
5 OF 5	DETAILS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 02 2024 FILE #: 24-0166
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

PREPARED FOR:

RHODE ISLAND ENERGY
2870 MELROSE STREET
PROVIDENCE, RI 02907

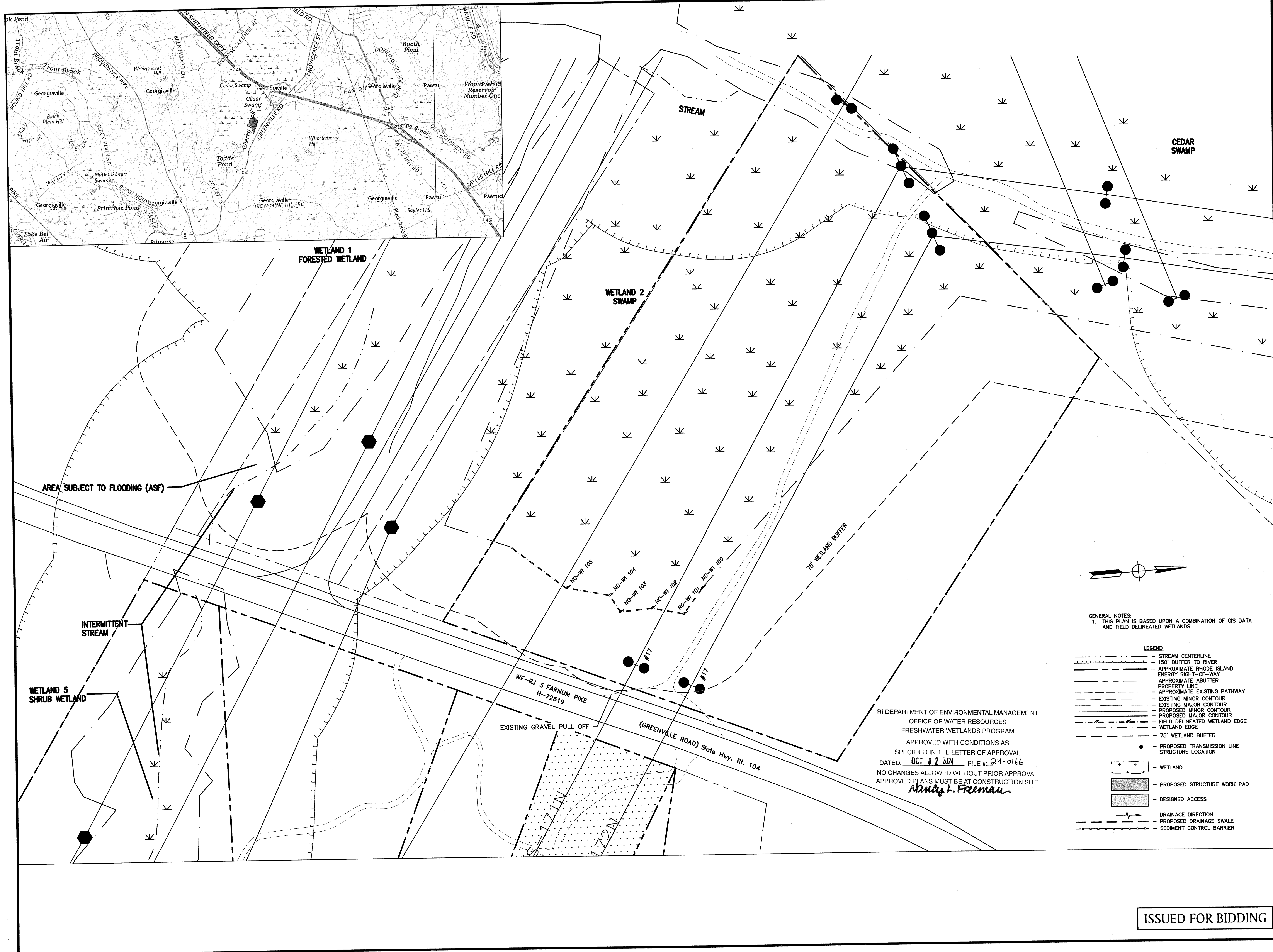


B. Yerganian
8/20/2024

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Andover, Massachusetts
01810
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RI Environmental Management
AUG 20 2024
Office of Water Resources



DATE

**S171/T172 REBUILD
TRANSMISSION LINE
STRUCTURE 17**
GREENVILLE ROAD
IN
NORTH SMITHFIELD
RHODE ISLAND
(PROVIDENCE COUNTY)

EXISTING
CONDITIONS PLAN

JUNE 17, 2024

PARCEL ID: 012-259

REVISIONS:

NO.	DATE	DESC.
1	8/20/2024	PER RIDEM COMMENT

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PREPARED FOR:
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PROVIDENCE, RI
02907

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SCALE: 1" = 40'
0 20 40 80 FEET

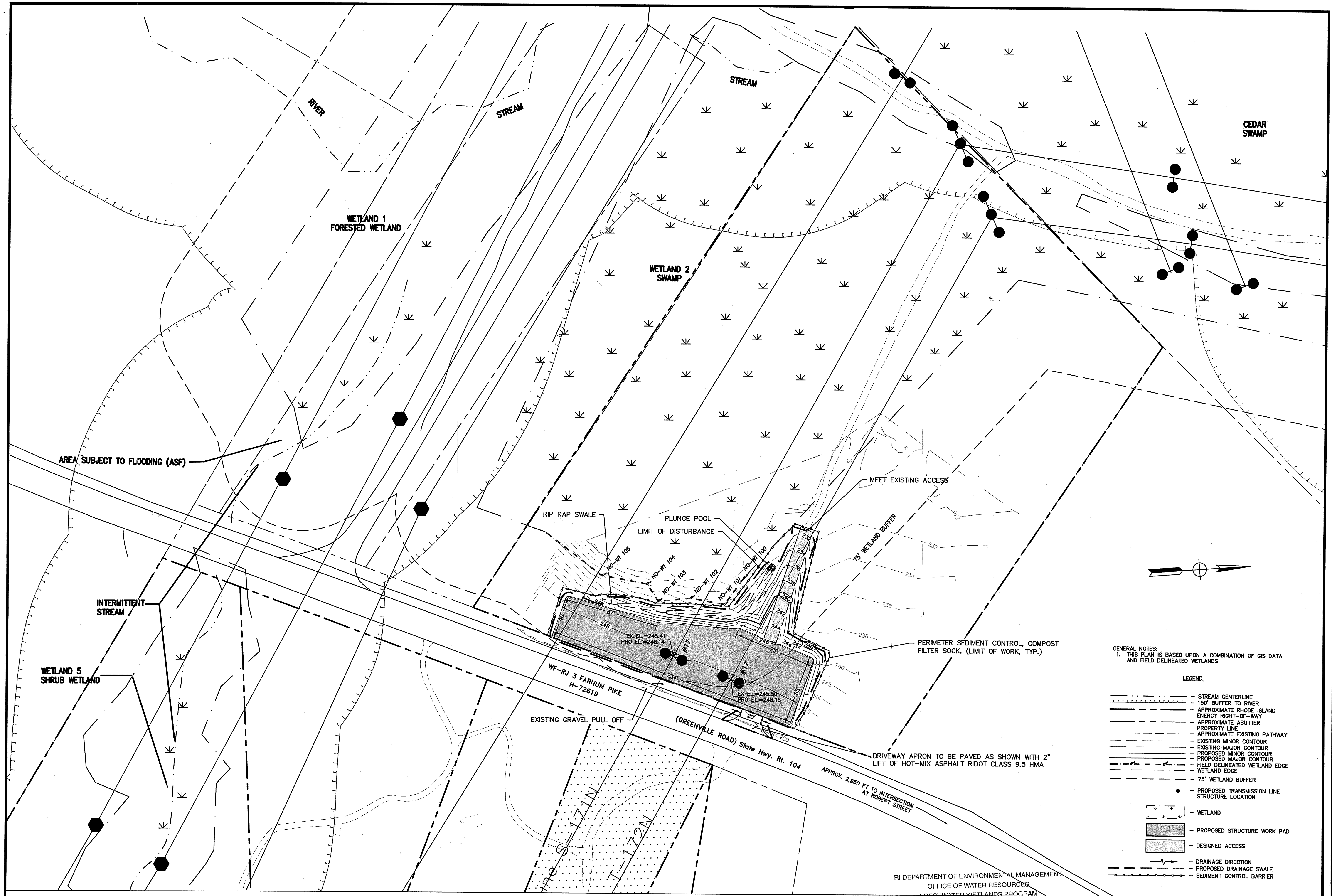
FILE: FILE_NAME
DWG.: DWG
JOB. NO: 89840.55 SHEET 2 OF 5

GENERAL NOTES:
1. THIS PLAN IS BASED UPON A COMBINATION OF GIS DATA AND FIELD DELINEATED WETLANDS

- LEGEND
- - - - - STREAM CENTERLINE
 - - - - - 150' BUFFER TO RIVER
 - - - - - APPROXIMATE RHODE ISLAND ENERGY RIGHT-OF-WAY
 - - - - - APPROXIMATE ABUTTER PROPERTY LINE
 - - - - - APPROXIMATE EXISTING PATHWAY
 - - - - - EXISTING MINOR CONTOUR
 - - - - - EXISTING MAJOR CONTOUR
 - - - - - PROPOSED MINOR CONTOUR
 - - - - - PROPOSED MAJOR CONTOUR
 - - - - - FIELD DELINEATED WETLAND EDGE
 - - - - - WETLAND EDGE
 - - - - - 75' WETLAND BUFFER
 - PROPOSED TRANSMISSION LINE STRUCTURE LOCATION
 - WETLAND
 - PROPOSED STRUCTURE WORK PAD
 - DESIGNED ACCESS
 - DRAINAGE DIRECTION
 - - - - - PROPOSED DRAINAGE SWALE
 - - - - - SEDIMENT CONTROL BARRIER

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8/20/2024
DATE

**S171/T172 REBUILD
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GREENVILLE ROAD
IN
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RHODE ISLAND
(PROVIDENCE COUNTY)

SITE PLAN

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Office of Water Resources

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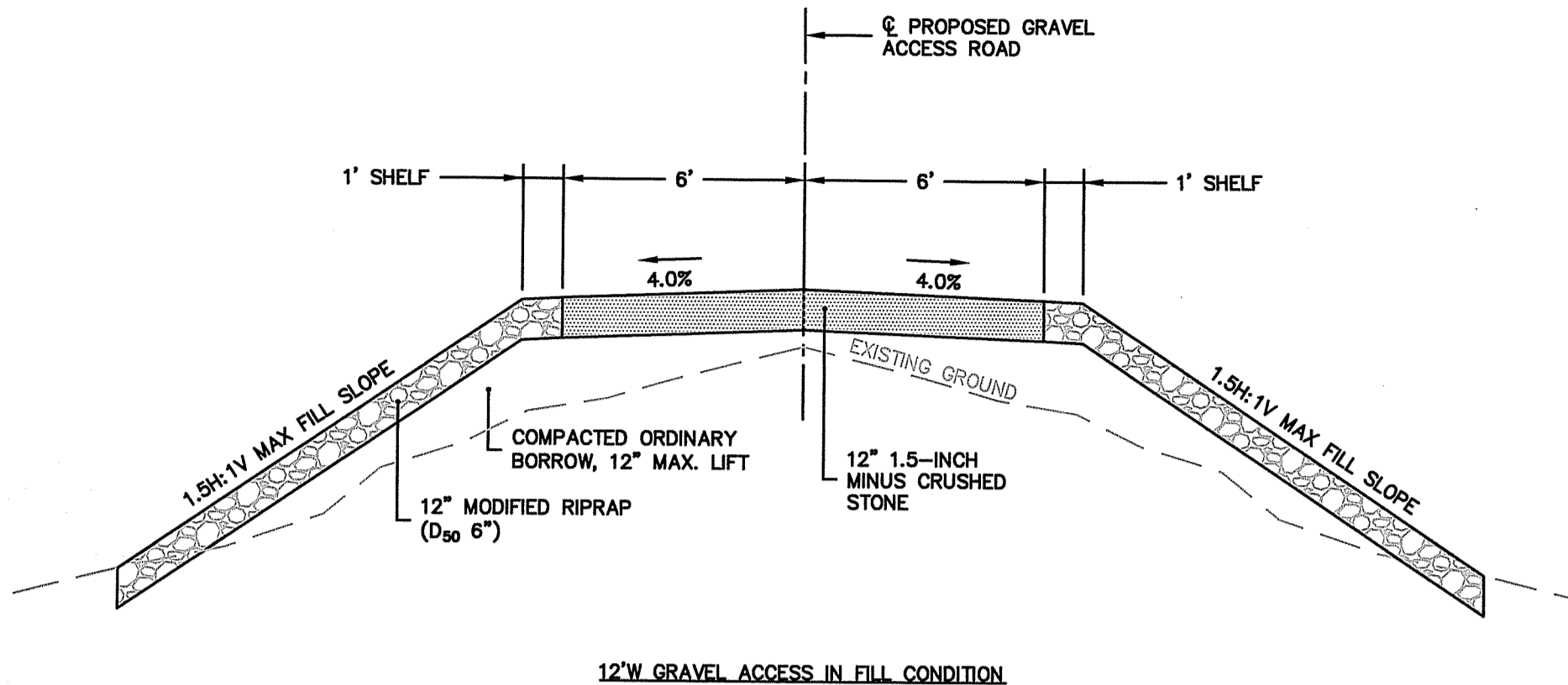
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0 20 40 80 FEET

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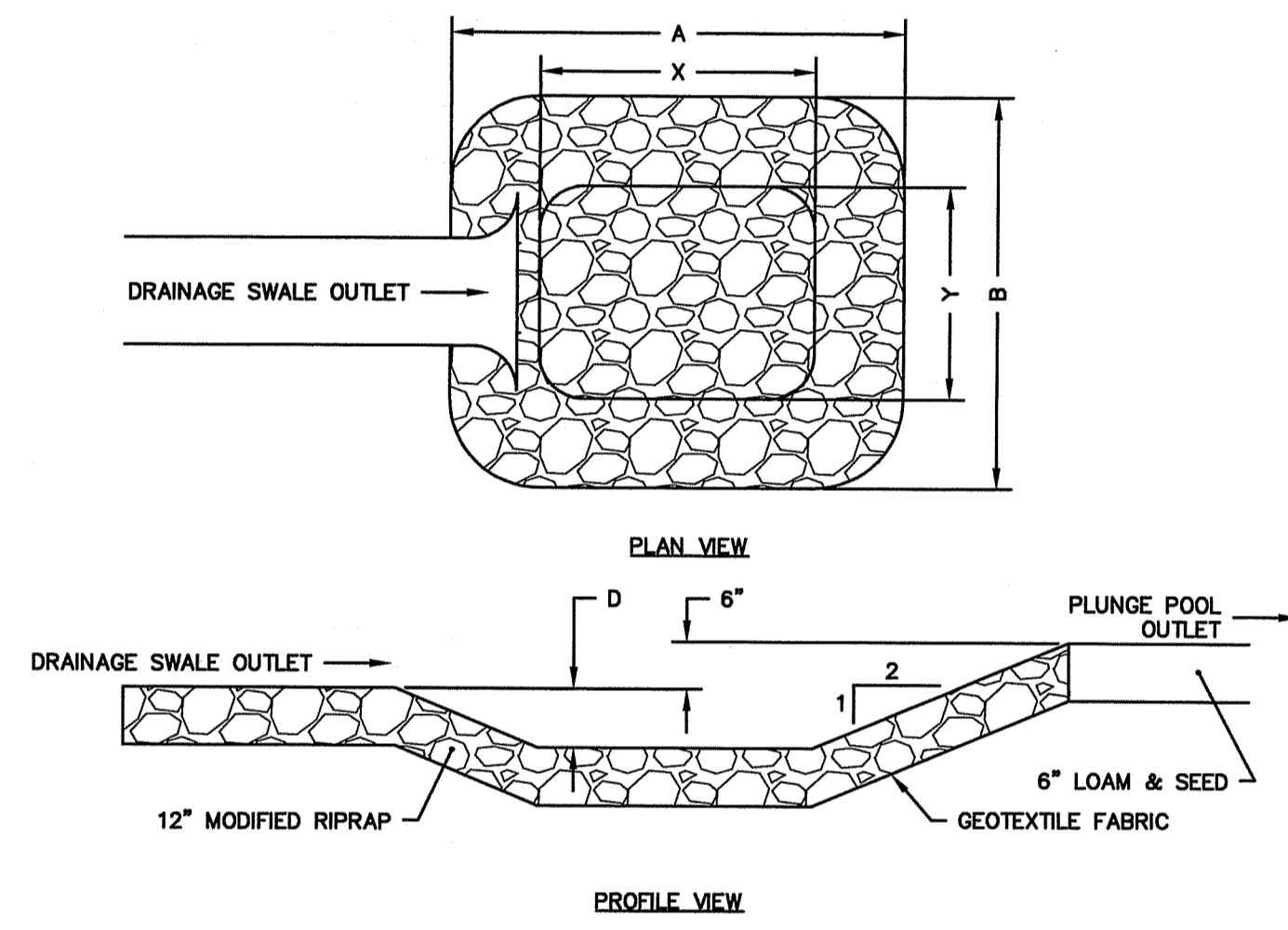
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ROADWAY SLOPE	CHECK DAM SPACING (FT)	WATER BAR SPACING (FT)
< 2.0%	100	250
2.0% - 5.0%	40	130
5.0% - 10.0%	20	80
10.0% - 15.0%	13	50
> 15.0%	10	40



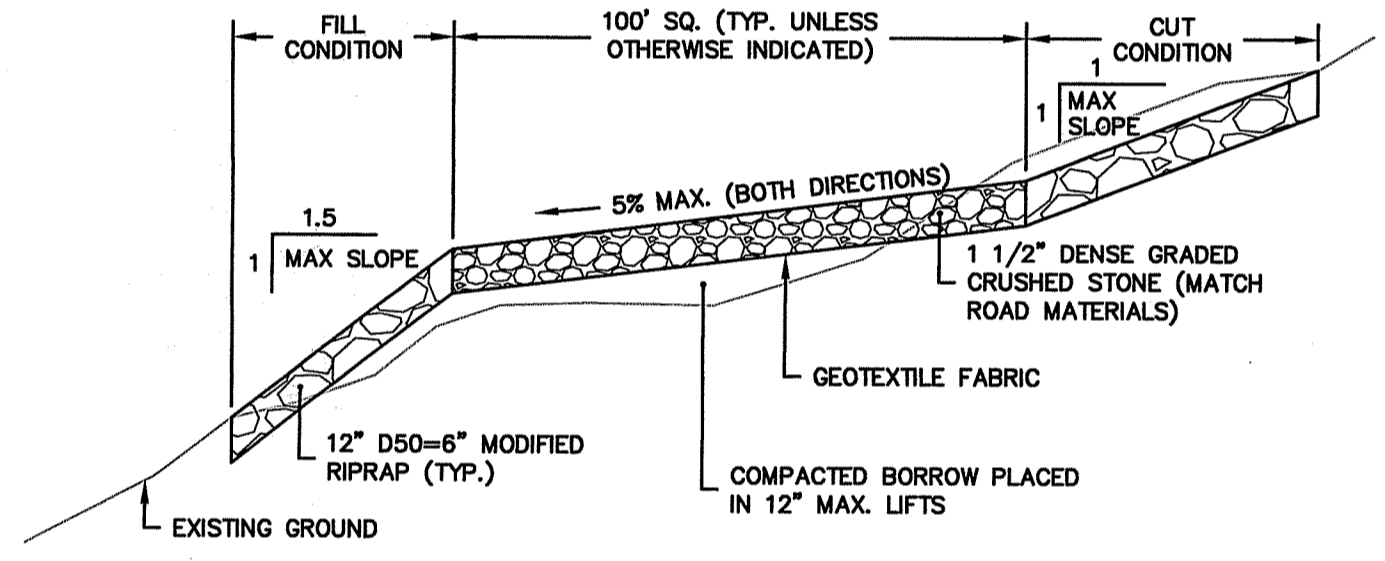
12' W GRAVEL ACCESS IN FILL CONDITION

- NOTES:**
- EXISTING CONDITIONS SHOWN HAVE BEEN PREPARED FROM AVAILABLE GIS DATA AND FROM EXISTING TOPOGRAPHY PROVIDED BY THE OWNER, USING LIDAR SURVEY. BSC HAS NOT FIELD VERIFIED THE EXISTING CONDITIONS INFORMATION PROVIDED AND SHOWS NO WARRANTY TO ITS ACCURACY. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES DISCOVERED.
 - CONTRACTOR TO PROTECT BOUNDARY MONUMENTS. IF NOT FEASIBLE OR A CONFLICT WITH DESIGN, CONTRACTOR TO NOTIFY RI ENERGY PRIOR TO DISTURBING PROPERTY MONUMENT.
 - CONTRACTOR'S RESPONSIBILITY TO ENSURE STRUCTURAL INTEGRITY OF EXISTING STRUCTURE THROUGHOUT CONSTRUCTION OF SURROUNDING WORK PADS.
 - APPROXIMATE LIMITS OF RIGHT-OF-WAY WERE PROVIDED BY RHODE ISLAND ENERGY PROJECT TEAM.
 - WORK AREAS SHOWN TO BE CONSTRUCTED USING A COMBINATION OF TEMPORARY CONSTRUCTION MATTING AND GRADING ARE CONSIDERED HYBRID PADS. CONTRACTOR SHALL DETERMINE THE APPROPRIATE EXTENT OF CONSTRUCTION MATTING TO ADEQUATELY PROTECT WETLAND RESOURCE AREAS. HYBRID WORK PADS SHALL REQUIRE RESTORATION OF GRADED AREAS ADJACENT TO WETLAND RESOURCE AREAS TO ENSURE PROTECTION OF RESOURCE AREAS FOLLOWING CONSTRUCTION.
 - PROPOSED GRADING ASSUMES 1:1 (H:V) CUT SLOPE AND 1.5:1 (H:V) FILL SLOPE UNLESS NOTED OTHERWISE. SEVERAL DESIGNED AREAS HEREIN HAVE BEEN DESIGNED WITH 1:1 FILL SLOPES TO REDUCE EXTENT OF DISTURBANCE/WORKWHERE BEDROCK IS ENCOUNTERED, A VERTICAL ROCK FACE MAY BE LEFT IN LIEU OF CREATING A 1:1 (H:V) CUT SLOPE. CONTRACTOR SHALL ENSURE THAT THE ROCK IS COMPETENT AND TAKE NECESSARY MEASURES TO CREATE A SAFE WORK ZONE INCLUDING, BUT NOT LIMITED TO, REMOVAL OF DEBRIS AND LOOSE ROCK FROM THE SIDES OR TOP OF THE VERTICAL ROCK FACE OR FENCING TO PROHIBIT ENTRY INTO UNSAFE AREAS ADJACENT TO THE ROCK FACE.
 - THE EXTENTS OF TEMPORARY CONSTRUCTION MATTING SHOWN MEETING EDGE OF PAVEMENT SHALL BE OFFSET AT A MINIMUM OF 10 FEET FROM THE EDGE OF PAVEMENT.
 - AFTER REMOVAL OF TEMPORARY MATTING, CONTRACTOR SHALL CONSULT ENGINEER FOR FINAL RESTORATION AND STORMWATER BMPs TO PROTECT NEARBY RESOURCE AREAS.
 - WORK PADS SHALL BE GRADED TO PREVENT CONCENTRATED STORMWATER FLOWS AT STEEP FILL SLOPES. SWALES AND PLUNGE POOLS SHALL BE CONSTRUCTED AS NEEDED TO CONTROL STORMWATER FLOWS FROM WORK PAD AREAS.
 - CONTRACTOR SHALL CONSTRUCT ADDITIONAL STORMWATER BMPs (E.G., SWALES, WATER BARS, CHECK DAMS, PLUNGE POOLS) THROUGHOUT ACCESS CONSTRUCTION AS NECESSARY TO CONTROL STORMWATER FLOWS AND PREVENT EROSION AND WASHOUTS. ENGINEER SHALL REVIEW WORK PERIODICALLY.
 - ALL WORK TO BE DONE WITHIN THE STATE HIGHWAY RIGHT OF WAY (ROW) SHALL CONFORM TO THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AUGUST 2023 EDITION WITH ALL REVISIONS. STANDARD DETAILS FOR THIS WORK ARE R.I. STANDARD DETAILS 1998 EDITION (AMENDED OCTOBER 2022) WITH ALL REVISIONS.
 - ALL TRAFFIC CONTROL SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION, INCLUDING ALL REVISIONS.



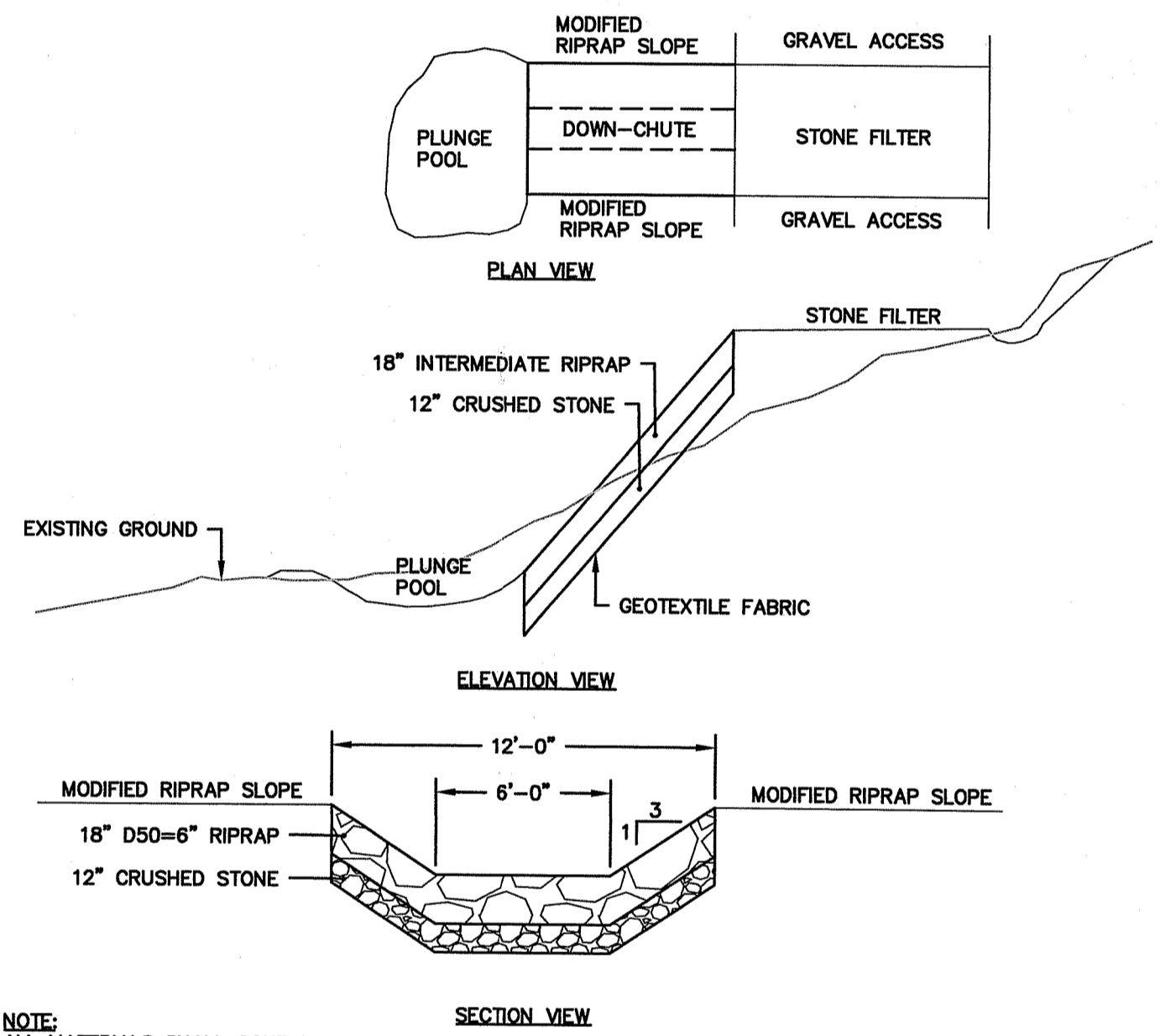
PLUNGE POOL
SCALE: NONE

- NOTES:**
- ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.
 - DIMENSIONS OF PLUNGE POOL TO BE DETERMINED BASED ON ANTICIPATED FLOW, DRAINAGE AREA, AND SITE CONDITIONS.
 - DIMENSIONS A AND B SHALL NOT BE LESS THAN 6'-0"
 - DIMENSION X SHALL NOT BE LESS THAN 2'-0"
 - DIMENSION Y SHALL NOT BE LESS THAN 1'-6"
 - DEPTH D SHALL NOT BE LESS THAN 1'-0"



GRAVEL WORK PAD
SCALE: NONE

- NOTE:**
- WORK PADS SHALL NOT BE CONSTRUCTED ON TOPSOIL.
 - ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.



RIPRAP DOWN-CHUTE
SCALE: NONE

- NOTE:**
ALL MATERIALS SHALL CONFORM TO APPLICABLE STATE DOT STANDARDS.

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**TYPICAL SECTIONS,
NOTES, & LEGEND**

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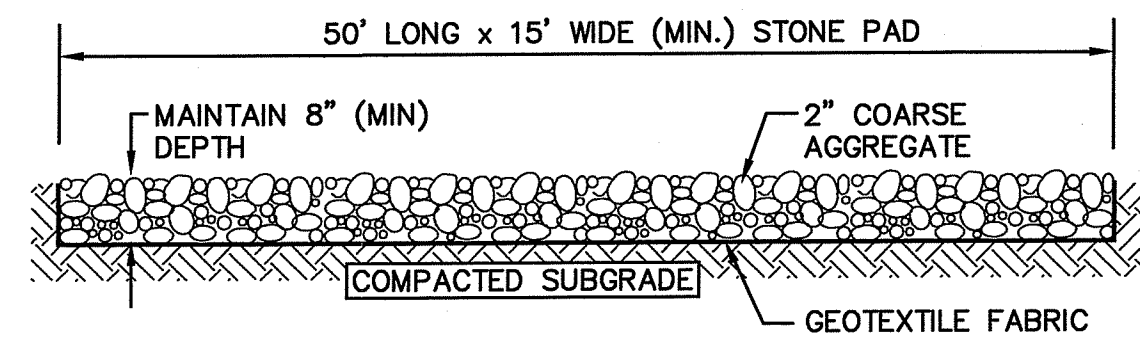
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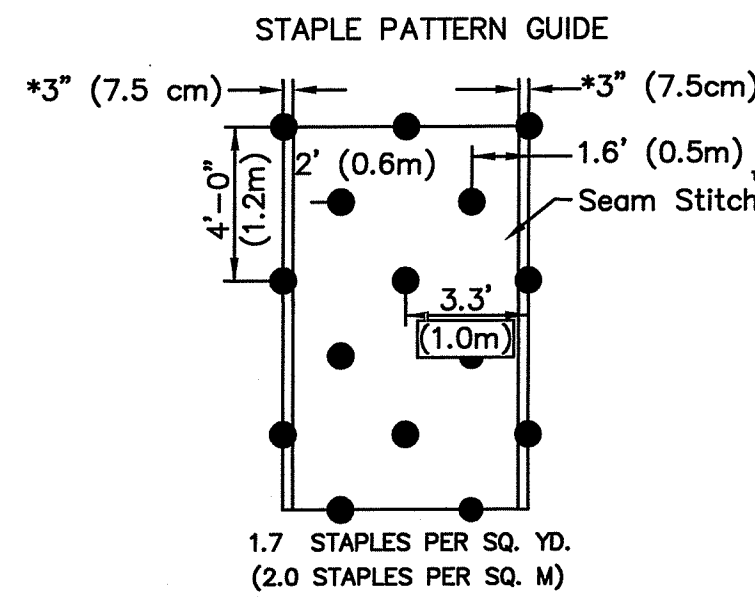
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0 2 4 8 FEET

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JOB. NO: 89840.55 SHEET 4 OF 5



TEMPORARY CONSTRUCTION ENTRANCE

SCALE: NONE



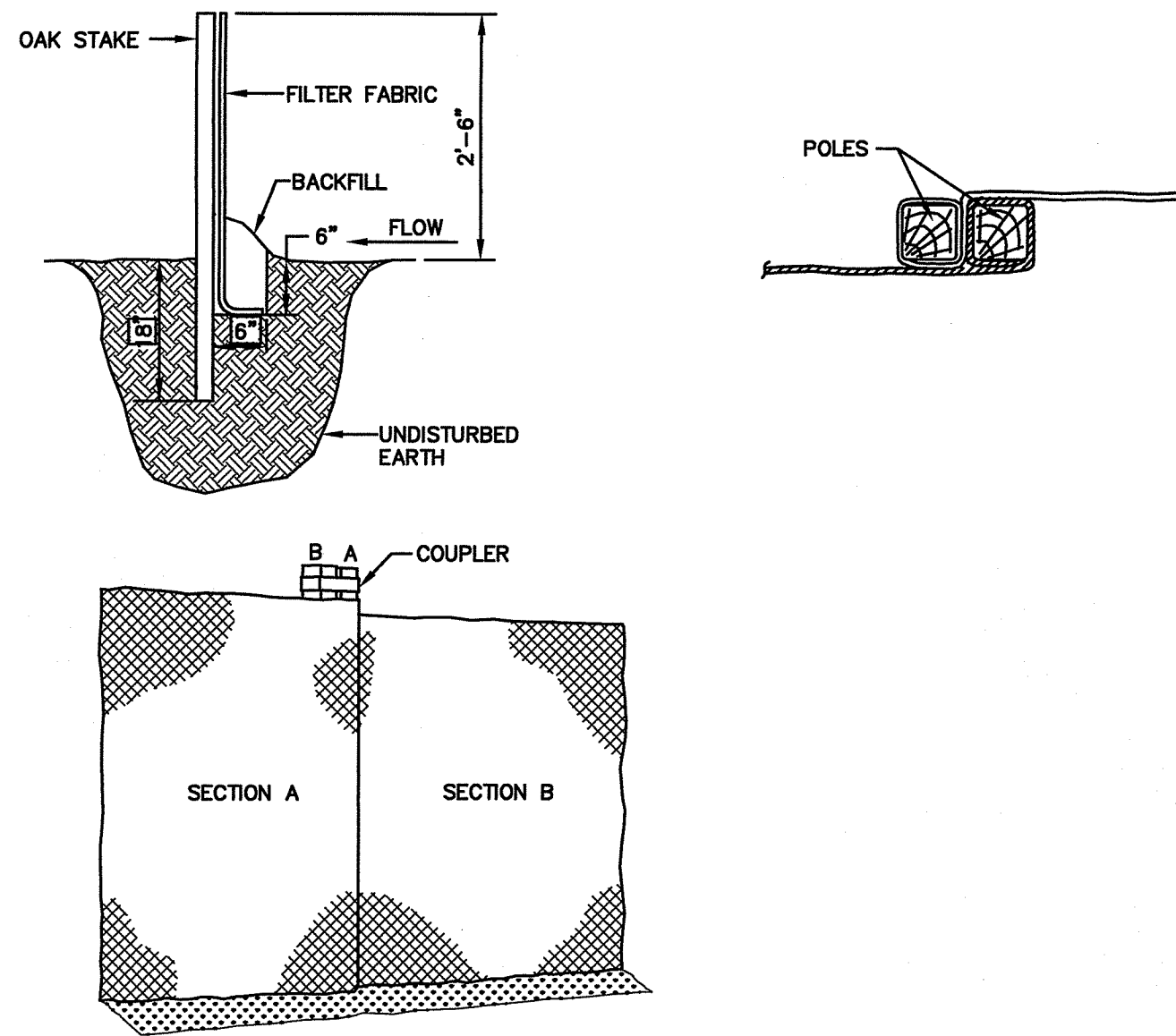
BLANKETS WITH THE OPTIONAL NORTH AMERICAN GREEN DOT SYSTEM PLACE STAPLES/STAKES THROUGH EACH OF THE GREEN COLORED DOTS.

NOTES:

- *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
- CRITICAL POINTS
 - A. OVERLAPS AND SEAMS
 - B. PROJECTED WATER LINE
 - C. CHANNEL BOTTOM/SIDE SLOPE VERTICES
- * HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.
- ** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS IN EXCESS OF 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.
- *LOCATION OF SEAM STITCH WILL VARY DEPENDING ON NORTH AMERICAN GREEN PRODUCT TYPE: -APPROX. 5" SEAM OVERLAP FOR BIONET EROSION CONTROL BLANKETS

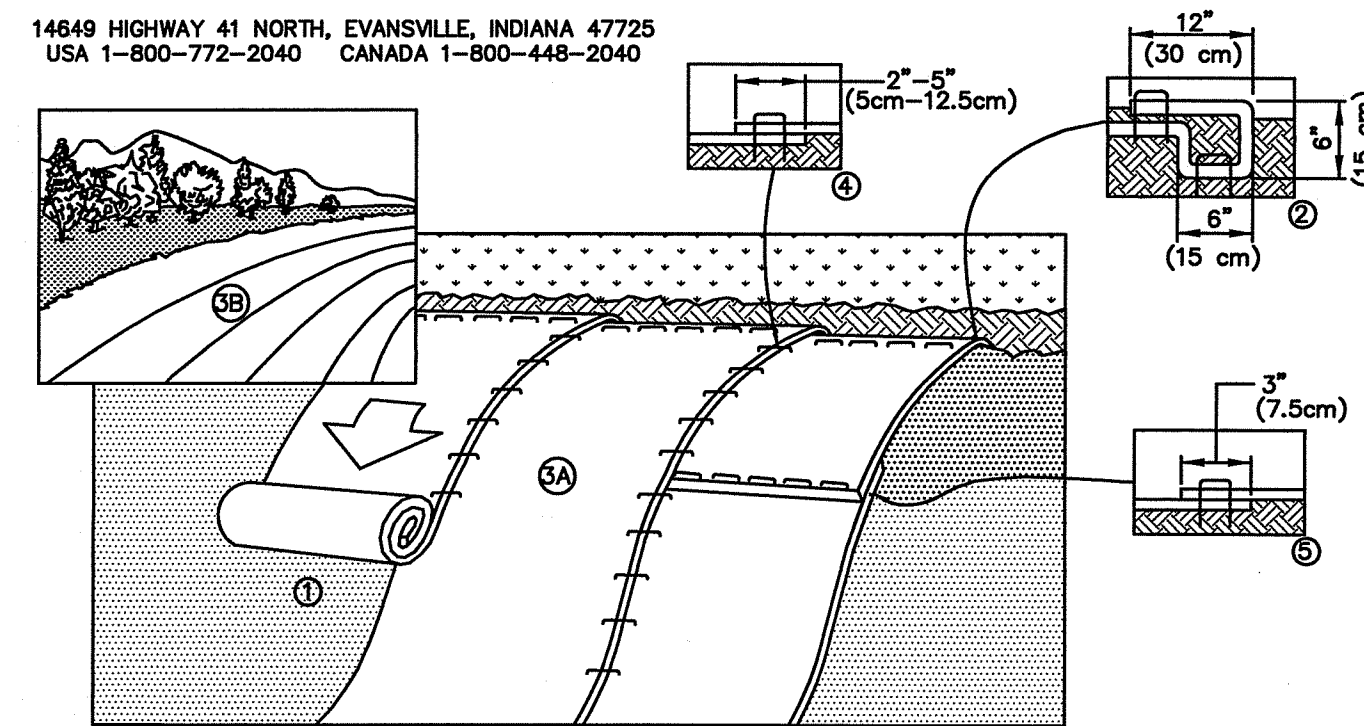
SLOPE STABILIZATION INSTALLATION

SCALE: NONE



SILT FENCE

SCALE: NONE

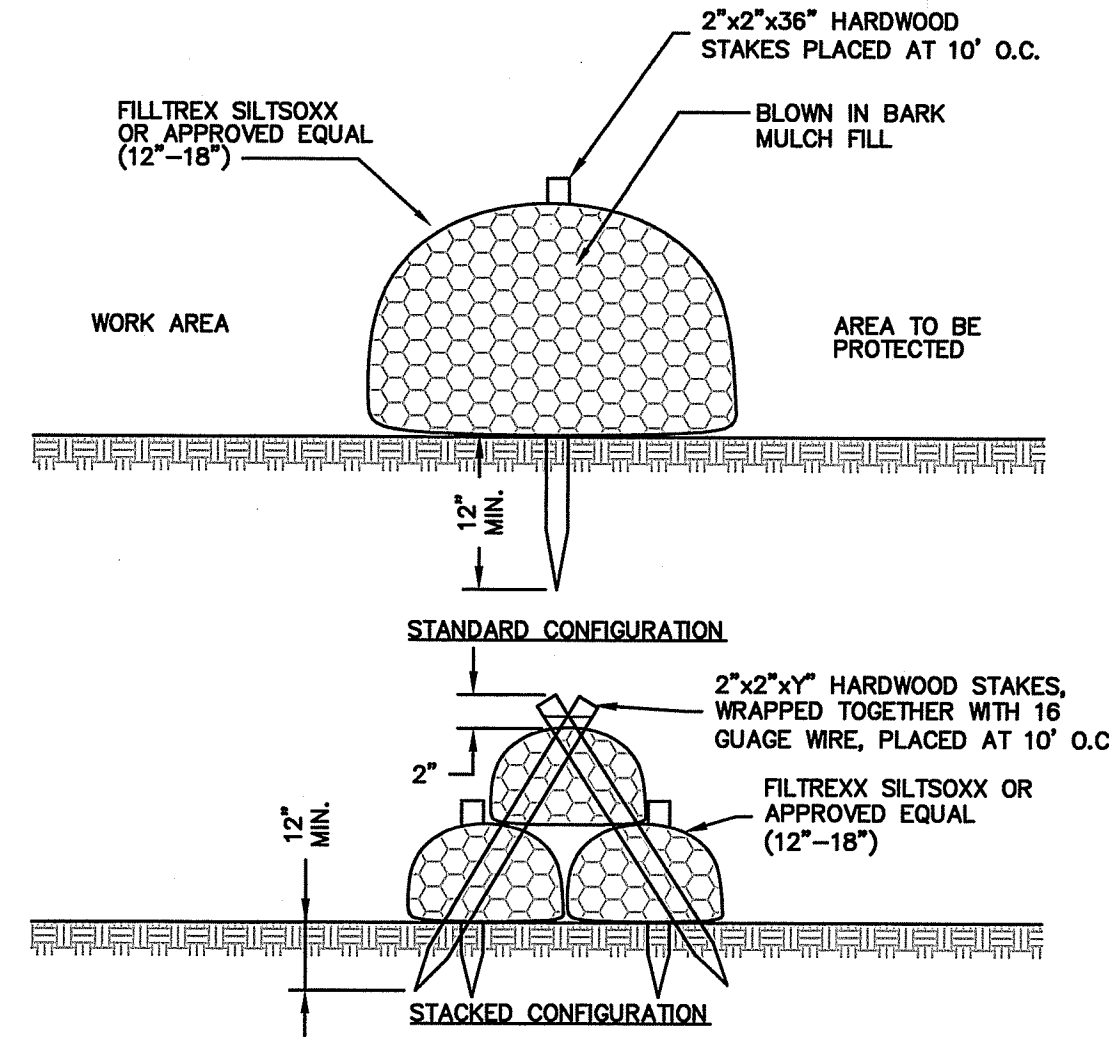


CONSTRUCTION NOTES:

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. HYDROSEED SIDE SLOPES BEFORE INSTALLATION OF BLANKETS.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm-12.5cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

LOAM AND SEED

SCALE: NONE

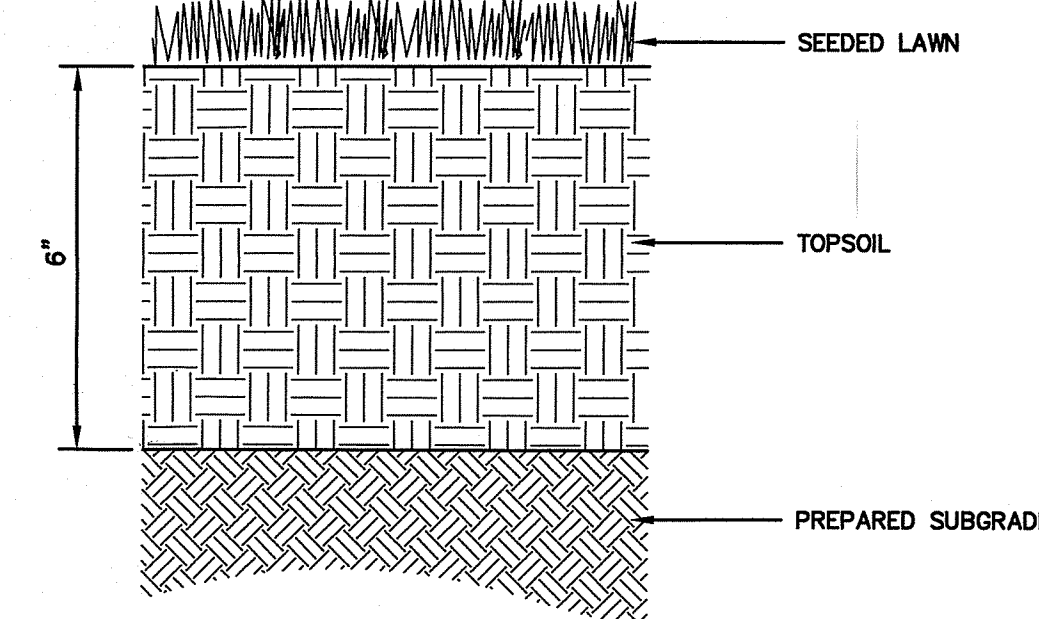


NOTES:

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

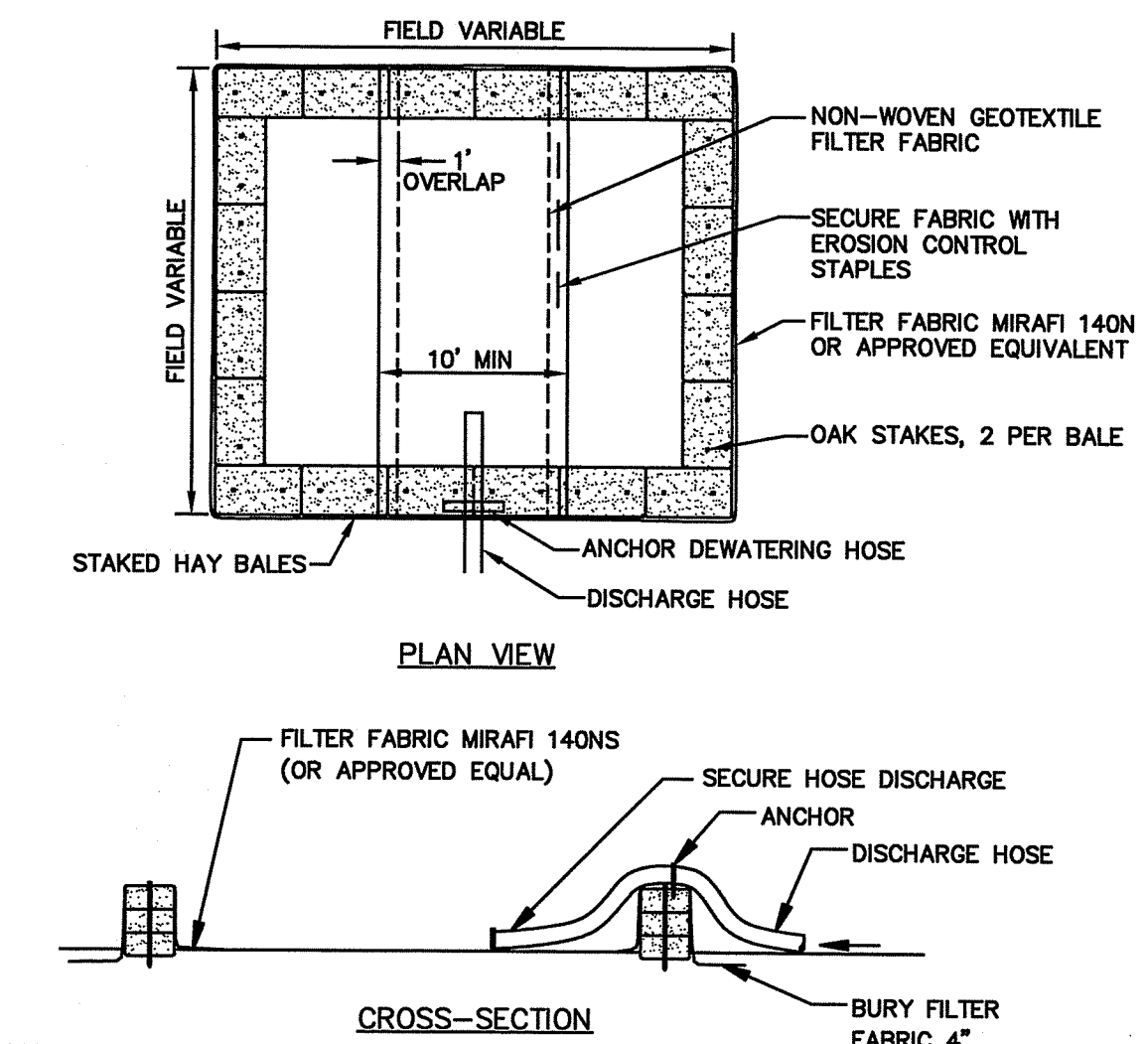
COMPOST FILTER SOCK

SCALE: NONE



NOTES:

1. CONTRACTOR SHALL PREPARE SOILS IN ALL DISTURBED AREAS AND AREAS USED FOR EQUIPMENT ACCESS.
2. SEED MIX PER SECTION 10, NATIONAL GRID ENVIRONMENTAL GUIDANCE DOCUMENT. SEE SHEET DET-02.



NOTES:

1. NUMBER OF BALES MAY VARY DEPENDING ON SITE CONDITIONS.
2. THE BASIN TO BE SIZED ACCORDING TO: CUBIC FEET OF STORAGE = PUMP DISCHARGE RATE (gpm) x 16
3. SIZE SHOWN ON PLANS SHALL BE ADJUSTED AS REQUIRED FOR THE ACTUAL PUMPING RATE.

DEWATERING HAYBALE BASIN (TYPE 1)

SCALE: NONE

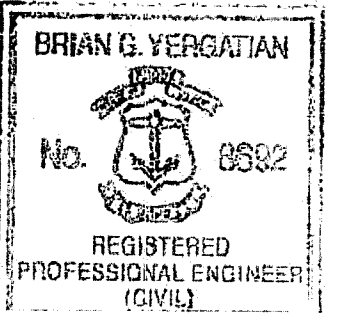
TEMPORARY STOCKPILES:

1. ALL TEMPORARY MATERIAL STOCKPILE LOCATIONS SHALL BE LOCATED ON A GRAVEL WORK PAD UNLESS OTHERWISE DIRECTED BY THE ENGINEER. NO STOCKPILES SHALL BE LOCATED WITHIN 50- FEET OF A WETLAND OR WATERCOURSE.
2. THE DOWN-GRADEMENT SIDE OF ALL STOCKPILES SHALL BE PROTECTED WITH A LAYER OF SILT SOXX OR OTHER APPROVED SEDIMENT CONTROL BARRIER.
3. FOLLOWING 30 DAYS OF INACTIVITY, ALL STOCKPILES SHALL BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE CRITERIA BELOW, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - SPRING, SUMMER, OR EARLY FALL: SEED AREA WITH RYEGRASS (ANNUAL OR PERENNIAL) AT 20 LB/AC (0.5 LB/1,000 SF).
 - LATE FALL OR EARLY WINTER: SEED CERTIFIED 'ARROSTOOK' WINTER RYE (CEREAL RYE) AT 90 LB/AC (2.0 LB/1,000 SF).

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NOTE:
 ADDITIONAL BMP MEASURES MAY BE INSTALLED AS REQUIRED IN ACCORDANCE WITH THE LATEST VERSION OF SPECIFICATION EG-303NE.

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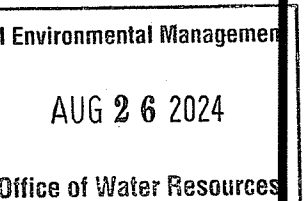
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 SCALE: AS SHOWN

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