

# Ground Mounted Solar

AP 45, Lot 95

270 Jenckes Hill Road  
Smithfield, Rhode Island

**CIVIL ENGINEER:**



**PARE CORPORATION**  
ENGINEERS - SCIENTISTS - PLANNERS  
8 BLACKSTONE VALLEY PLACE LINCOLN, RI 02865 401-334-4100  
10 LINCOLN ROAD, SUITE 210 FOWERSVILLE, RI 02865 401-334-1755  
14 BOBOLA ROAD, SUITE 208 HICKORY, RI 02840 401-337-3468

**APPLICANT:**

Energy EPC, LLC  
640 George Washington Highway  
Lincoln, RI 02865

**OWNER:**

Orion RED  
270 Jenckes Hill Road  
Smithfield, RI 02917



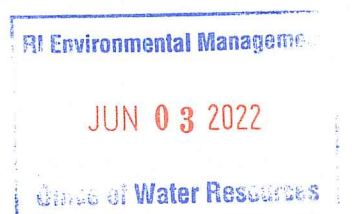
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**RIDEM PERMIT SUBMISSION**  
**FEBRUARY 2022**  
**REVISED JUNE 1, 2022**

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: JUN 3 0 2022 FILE #: 22-0065  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Nancy L. Freeman*



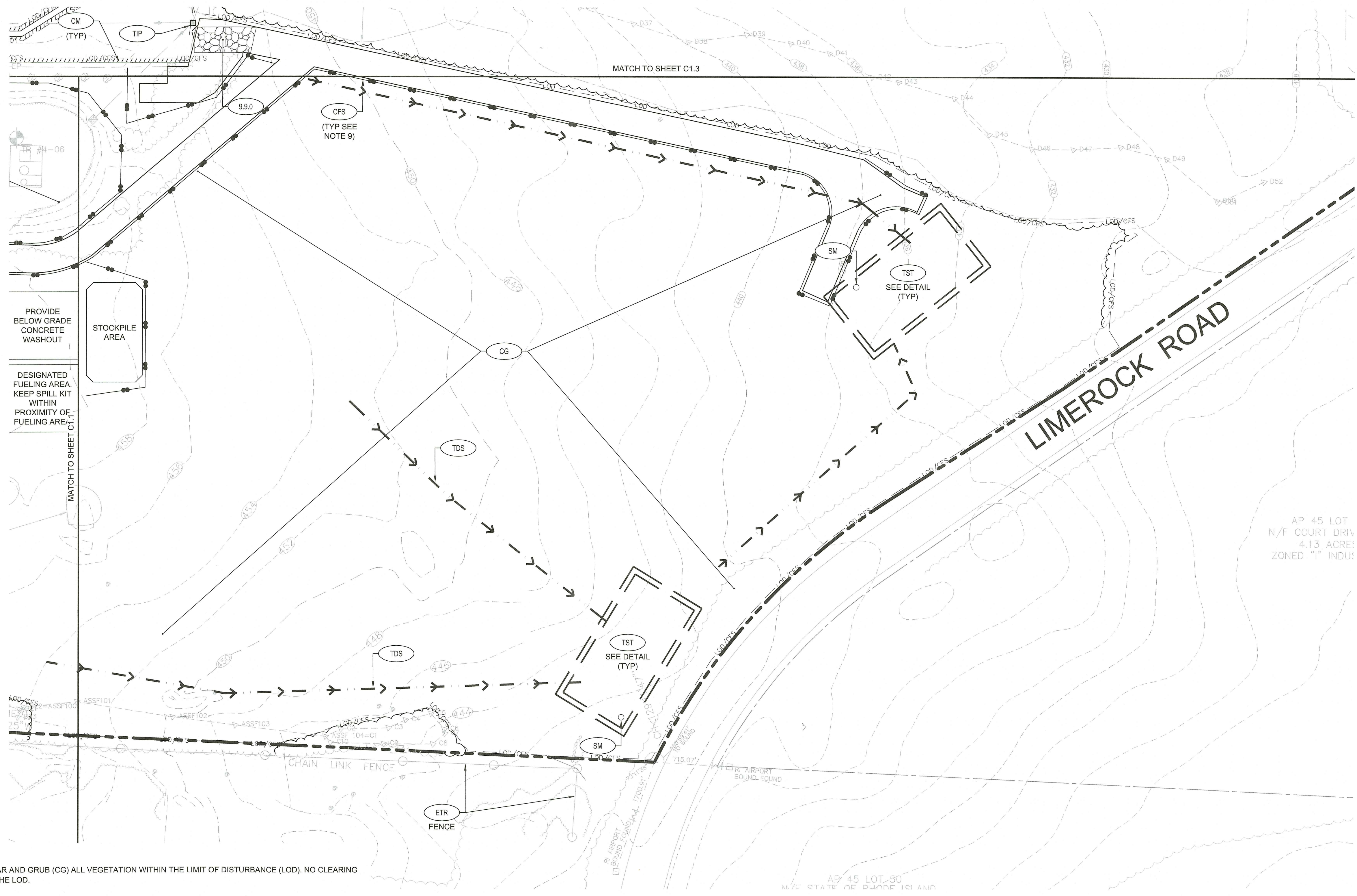








SAVE DATE: 2-Jun-22 3:09:55 PM PLOT DATE: 2-Jun-22 3:17:42 PM  
 Z:\JOBS\21\_JOBS\21156.00\REVITY ENERGY-ORION SOLAR-RIDWGS\C1.1-C1.3\DEMOLITION, EROSION AND SEDIMENT CONTROL PLAN.DWG



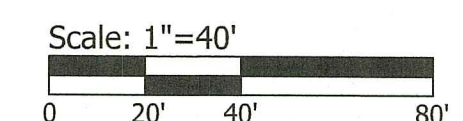
**NOTES:**

1. THE CONTRACTOR SHALL CLEAR AND GRUB (CG) ALL VEGETATION WITHIN THE LIMIT OF DISTURBANCE (LOD). NO CLEARING SHOULD OCCUR OUTSIDE OF THE LOD.
2. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS ARE INTENDED TO REPRESENT THE MINIMUM CONTROLS NECESSARY TO MEET ANTICIPATED SITE CONDITIONS. ADDITIONAL MEASURES SHALL BE IMPLEMENTED AS CONDITIONS WARRANT OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE.
3. CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN SILT SACKS IN ALL EXISTING AND NEWLY INSTALLED CATCH BASINS UNTIL THE UPSTREAM AREA IS STABILIZED.
4. CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION ENTRANCES AT ALL POINTS OF EGRESS FROM THE SITE THROUGHOUT CONSTRUCTION.
5. THE CONTRACTOR SHALL MAINTAIN EROSION CONTROLS THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL REPLACE DAMAGED EROSION CONTROLS AT THE OWNER AND ENGINEER'S REQUEST AT NO ADDITIONAL EXPENSE TO THE OWNER.
6. THE CONTRACTOR SHALL NOT LEAVE DISTURBED AREAS UNSTABILIZED FOR PERIODS MORE THAN 14 DAYS. PROVIDE TEMPORARY SEED OR MULCH ON DISTURBED AREAS THAT WILL REMAIN EXPOSED FOR GREATER THAN 14 DAYS.
7. THE USE OF HEAVY EQUIPMENT SHOULD BE MINIMIZED. IF COMPACTION OCCURS WITHIN THE SOLAR AREA, THE SOIL SHALL BE AERATED PRIOR TO SEEDING. IF COMPACTION OCCURS ON THE CRUSHED STONE ACCESS DRIVE, THE STONE SHALL BE REPAIRED OR REPLACED TO MATCH ADJACENT GRADE.
8. INSTALL EROSION CONTROLS DOWNSTREAM OF ANY DISTURBED AREAS TO REDUCE POTENTIAL FOR EROSION. CONTRACTOR SHALL INDICATE LOCATIONS OF EROSION CONTROLS FOR REVIEW WITH GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
9. PROTECT CRUSHED STONE ROAD FROM SEDIMENT LADEN RUNOFF AND SEDIMENT TRACKING DURING CONSTRUCTION. NO RUNOFF SHALL DISCHARGE TO THE ROAD UNTIL ALL UPSTREAM AREAS ARE STABILIZED. CONSTRUCT CRUSHED STONE ROAD ONCE ALL UPSTREAM AREAS ARE STABILIZED IF POSSIBLE. INSTALL COMPOST FILTER SOCK AS SHOWN IF ROAD IS CONSTRUCTED BEFORE UPSTREAM STABILIZATION.
10. REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL DEMOLITION, EROSION AND SEDIMENTATION CONTROL NOTES.



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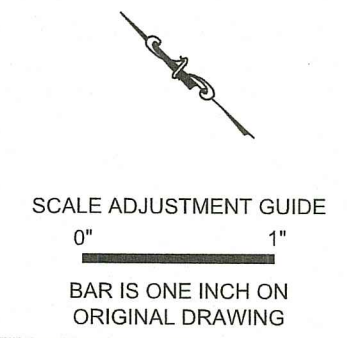
*Nancy L. Freeman*



NOT FOR CONSTRUCTION



OWNER:  
 Orion RED  
 270 Jenckes Hill Road  
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 Lincoln, RI 02865



**Ground Mounted Solar**  
 270 Jenckes Hill Road  
 Smithfield, Rhode Island

AP 45 LOT  
 N/F COURT DRIV  
 4.13 ACRES  
 ZONED "I" INDU

RI Environmental Management  
 JUN 0 3 2022  
 Office of Water Resources

REVISIONS:

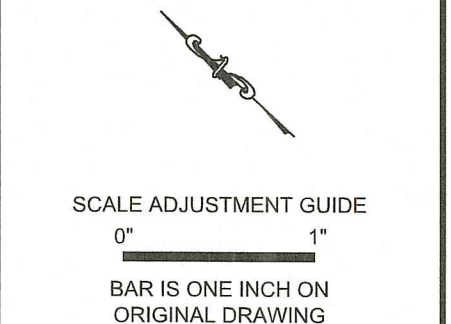
NO.	DESCRIPTION	DATE

PROJECT NO.: 21156.00  
 DATE: JUNE 1, 2022  
 SCALE: 1"=40'  
 DESIGNED BY: MA  
 CHECKED BY: MA  
 DRAWN BY: AWB  
 APPROVED BY: DLP  
 DRAWING TITLE:  
 DEMOLITION, EROSION  
 AND SEDIMENT CONTROL  
 PLAN 2  
 DRAWING NO.:  
**C1.2**  
 SHEET NO. 6 OF 16

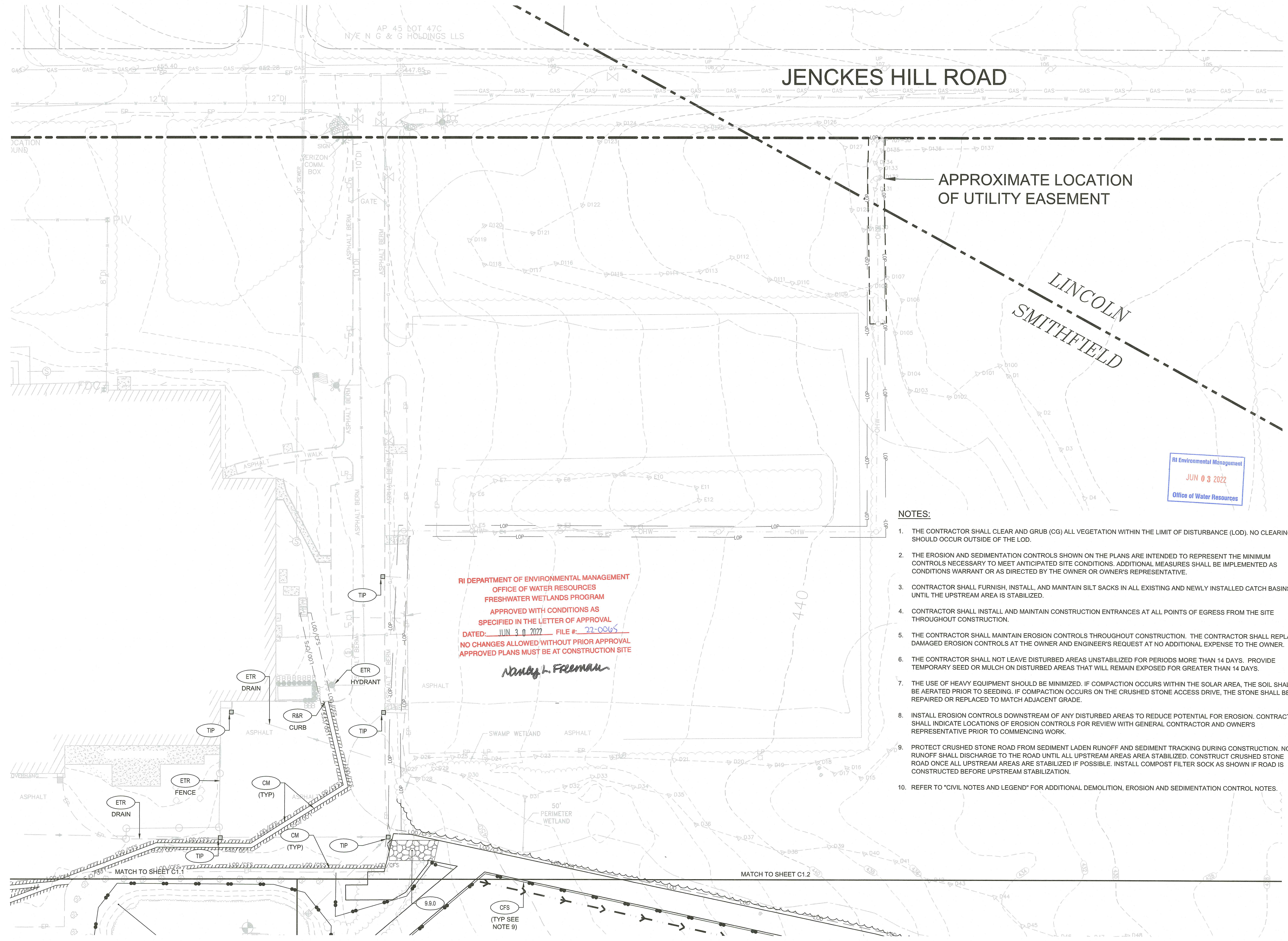


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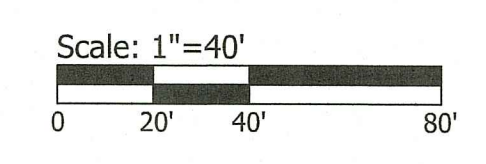
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DESIGNED BY: MA  
CHECKED BY: MA  
DRAWN BY: AWB  
APPROVED BY: DLP  
DRAWING TITLE:

DEMOLITION, EROSION AND SEDIMENT CONTROL PLAN 3

DRAWING NO.: **C1.3**  
SHEET NO. 7 OF 16

SAVE DATE: 2-Jun-22 3:09:55 PM PLOT DATE: 2-Jun-22 3:17:47 PM  
Z:\JOBS\21156.00 REVITY ENERGY-ORION SOLAR-RIDVGS\C1.1-C1.3 DEMOLITION, EROSION AND SEDIMENT CONTROL PLAN.DWG



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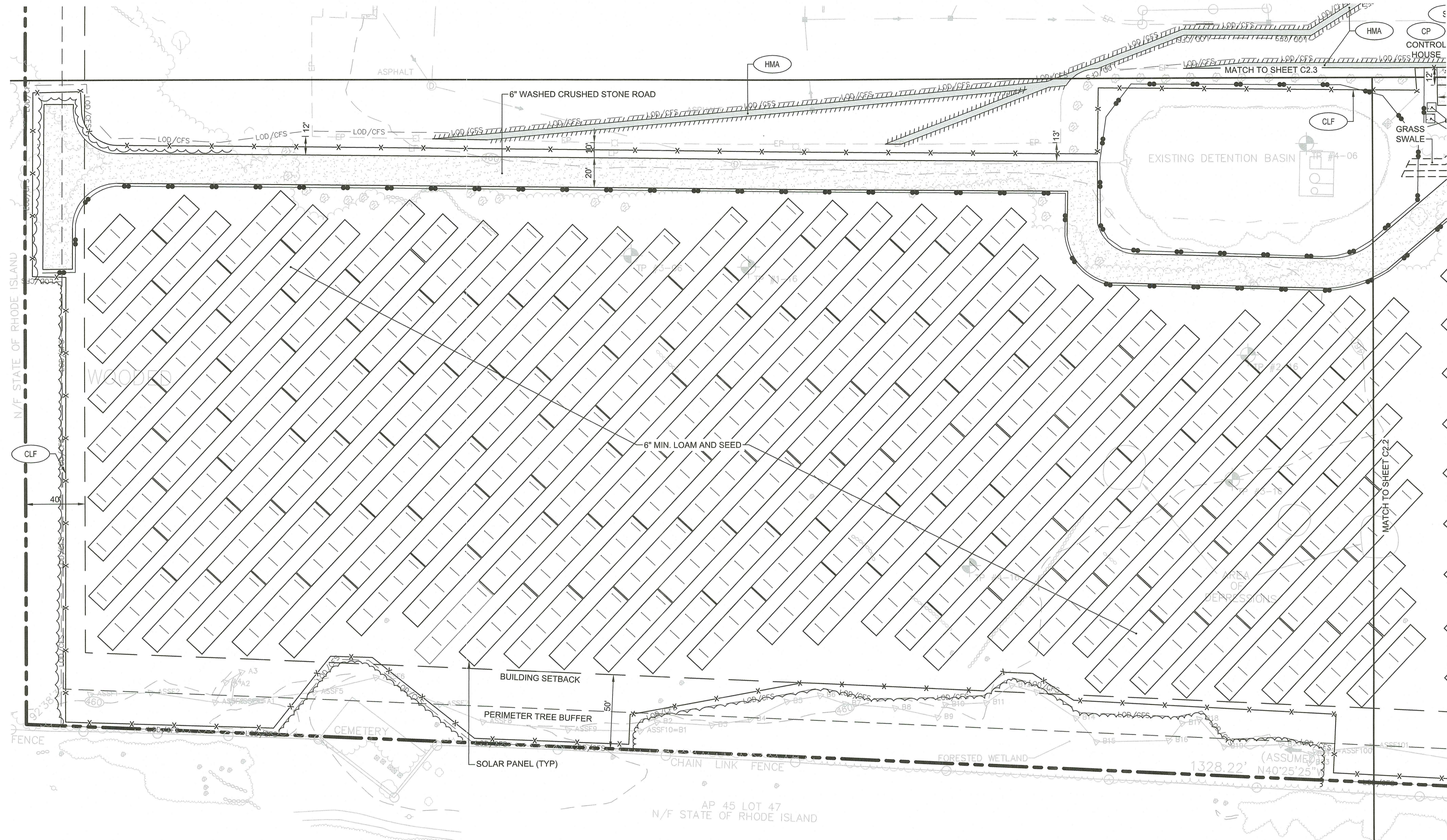
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SCALE ADJUSTMENT GUIDE  
1" = 40'  
BAR IS ONE INCH ON ORIGINAL DRAWING

**Ground Mounted Solar**  
270 Jenckes Hill Road  
Smithfield, Rhode Island



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JUN 03 2022  
Office of Water Resources

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*Nancy L. Freeman*

Scale: 1"=40'  
0 20' 40' 80'

NOT FOR CONSTRUCTION

- NOTES:
- CONTRACTOR SHALL PROVIDE 6" OF LOAM AND SEED ON ALL DISTURBED AREAS UNLESS NOTED OTHERWISE. SEED SHALL BE NORTHEAST SOLAR POLLINATOR MIX.
  - PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.
  - REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.

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APPROVED BY: DLP  
DRAWING TITLE:

GENERAL PLAN 1

DRAWING NO.: C2.1

SHEET NO. 8 OF 16

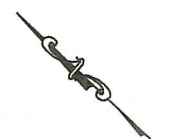
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SCALE ADJUSTMENT GUIDE  
0" 1"  
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CHECKED BY: MA  
DRAWN BY: AWB  
APPROVED BY: DLP  
DRAWING TITLE:

GENERAL PLAN 3

DRAWING NO.:  
**C2.3**  
SHEET NO. 10 OF 16

Scale: 1"=40'  
0 20' 40' 80'

NOT FOR CONSTRUCTION

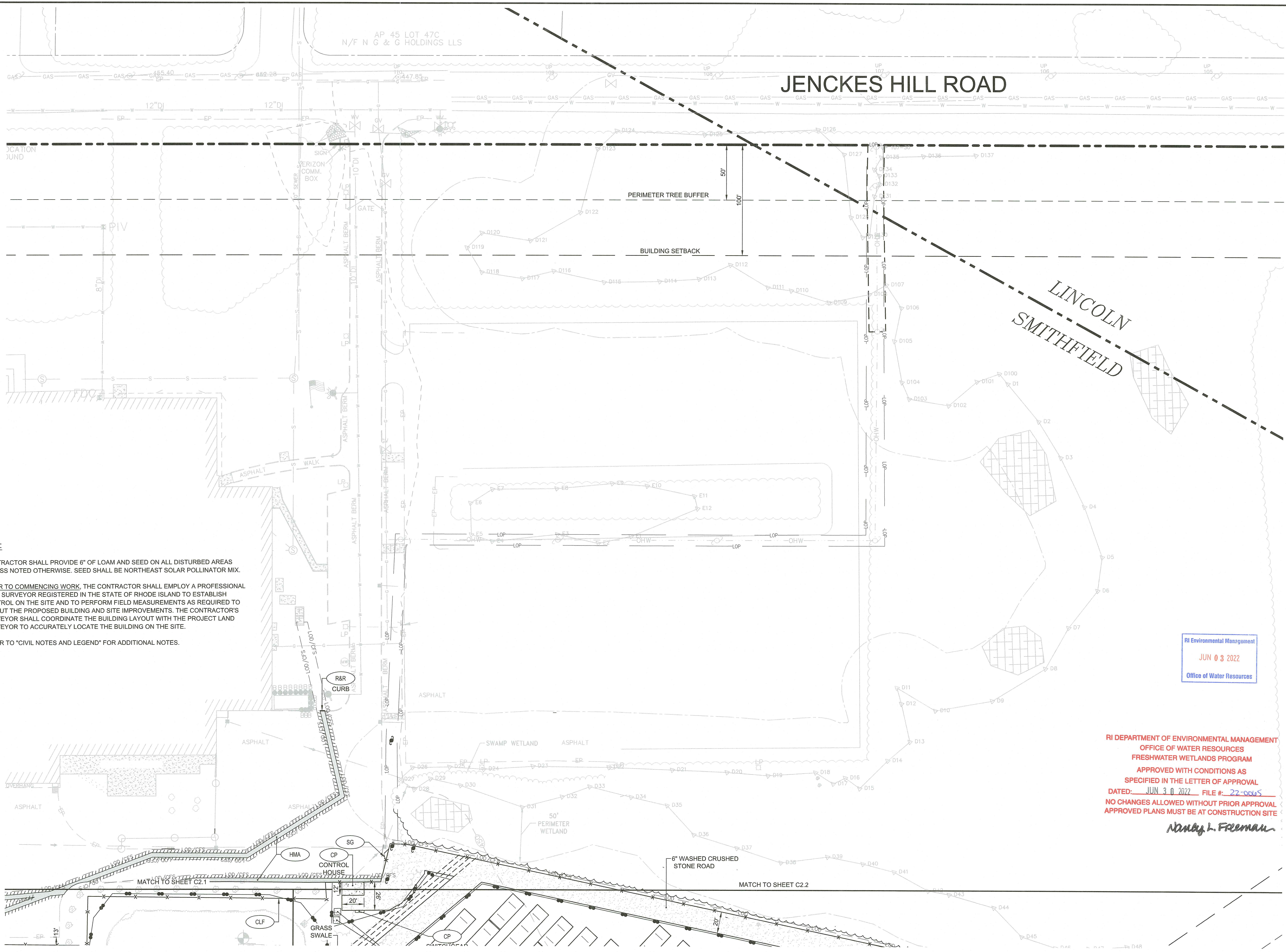
JENCKES HILL ROAD

LINCOLN  
SMITHFIELD

AP 45 LOT 47C  
N/F N G & G HOLDINGS LLS

- NOTES:
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  - PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF RHODE ISLAND TO ESTABLISH CONTROL ON THE SITE AND TO PERFORM FIELD MEASUREMENTS AS REQUIRED TO LAYOUT THE PROPOSED BUILDING AND SITE IMPROVEMENTS. THE CONTRACTOR'S SURVEYOR SHALL COORDINATE THE BUILDING LAYOUT WITH THE PROJECT LAND SURVEYOR TO ACCURATELY LOCATE THE BUILDING ON THE SITE.
  - REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.

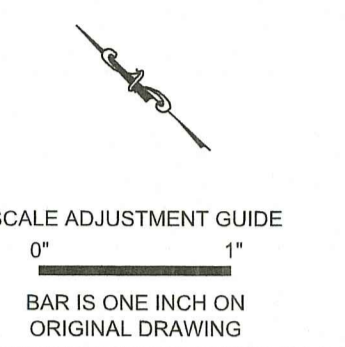
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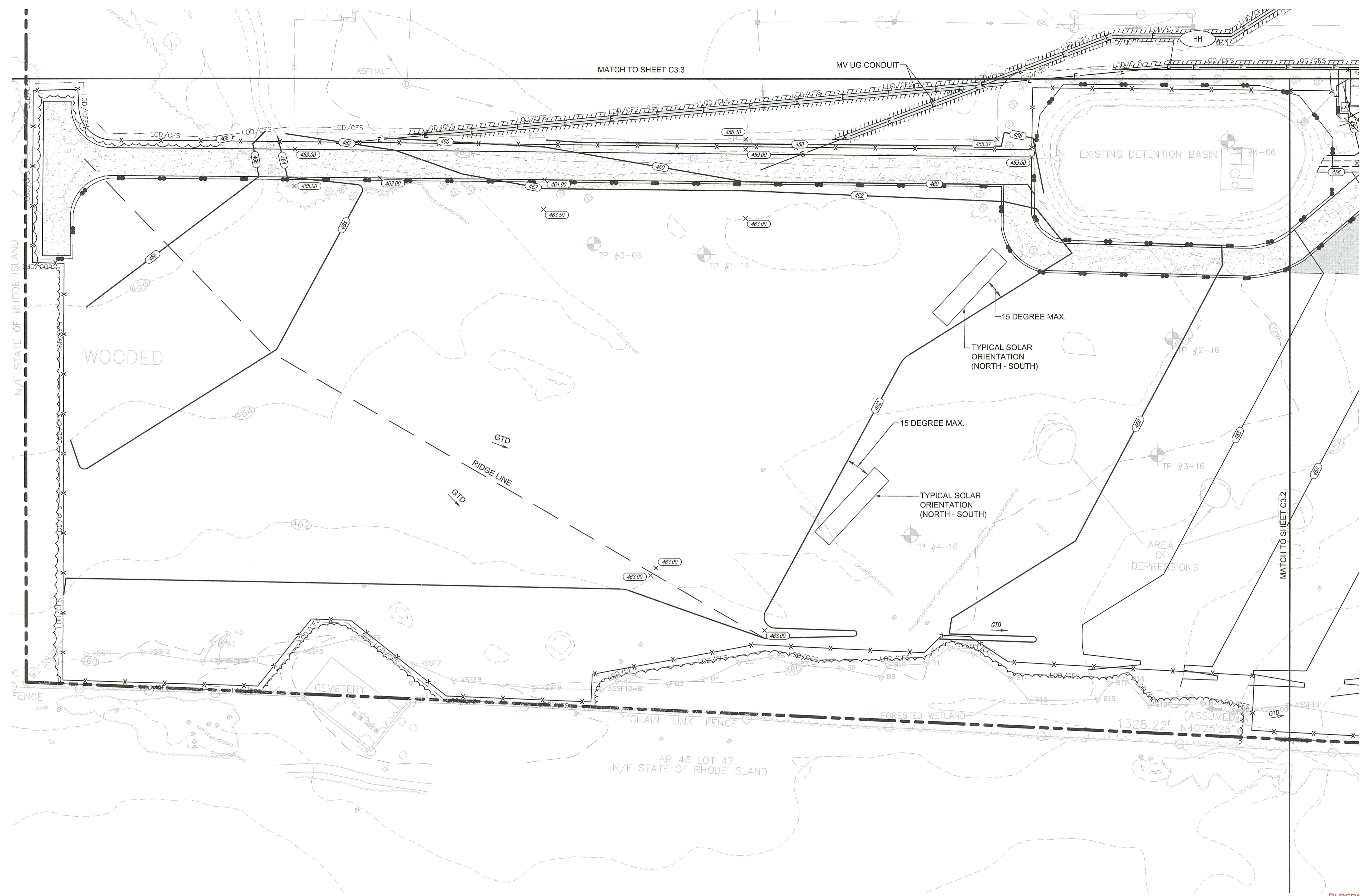
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# Ground Mounted Solar

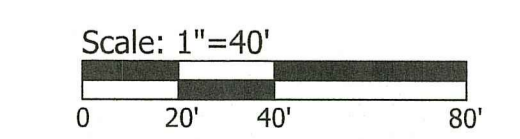
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RI Environmental Management  
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**GRADING NOTES:**

- AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUT NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURBS OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT AND CURBS SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS.
- ALL UTILITY COVERS, GRATES, ETC. SHALL BE ADJUSTED TO BE FLUSH WITH THE SURROUNDING SURFACE OR PAVEMENT FINISH GRADE. RIM ELEVATIONS OF STRUCTURES AND MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE GRADING PLANS.
- PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MIN. OF 1/8" PER FOOT UNLESS SPECIFIED.
- BASIN BERM SHALL BE CONSTRUCTED WITH COMMON BORROW PLACED IN 12" LEFTS AND COMPACTED TO 95% TO FINISH GRADE. REMOVE ALL EXISTING TOPSOIL AND ORGANIC MATERIAL PRIOR TO CONSTRUCTING BASIN BERM.
- TURF REINFORCEMENT MAT (TRM) SHALL BE INSTALLED ON ALL SLOPES 3:1 OR GREATER.
- REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.

**DRAINAGE AND UTILITY NOTES:**

- ALL CATCH BASINS AND DRAIN MANHOLES SHALL BE 4' DIA. PRECAST CONCRETE UNLESS NOTED OTHERWISE.
- ALL DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS NOTED OTHERWISE.
- ALL SLOPES PROVIDED ARE FT/FT.
- REFER TO ELECTRICAL DRAWINGS FOR INFORMATION ON ELECTRIC AND TEL/DATA DUCT BANKS AND STRUCTURES. ALL ELECTRICAL FACILITIES DISPLAYED FOR REFERENCE ONLY.
- PRIOR TO CONSTRUCTING STORMWATER DETENTION BASIN AND SOLAR PANEL DRIP EDGES, CONTRACTOR SHALL VERIFY THERE ARE NO KNOWN CONTAMINATES THAT EXCEED ALLOWABLE HYDRAULIC LOADING CRITERIA AS DEFINED BY RIDEM'S SUBSURFACE CONTAMINATION RED, YELLOW AND GREEN GUIDANCE. SHOULD CONTAMINATES EXCEED ALLOWABLE HYDRAULIC LOADING, THE STORMWATER CHANNELS, DRIP EDGES, AND DETENTION BASINS SHALL BE LINED WITH A 30MM PVC LINER.
- REFER TO "CIVIL NOTES AND LEGEND" FOR ADDITIONAL NOTES.

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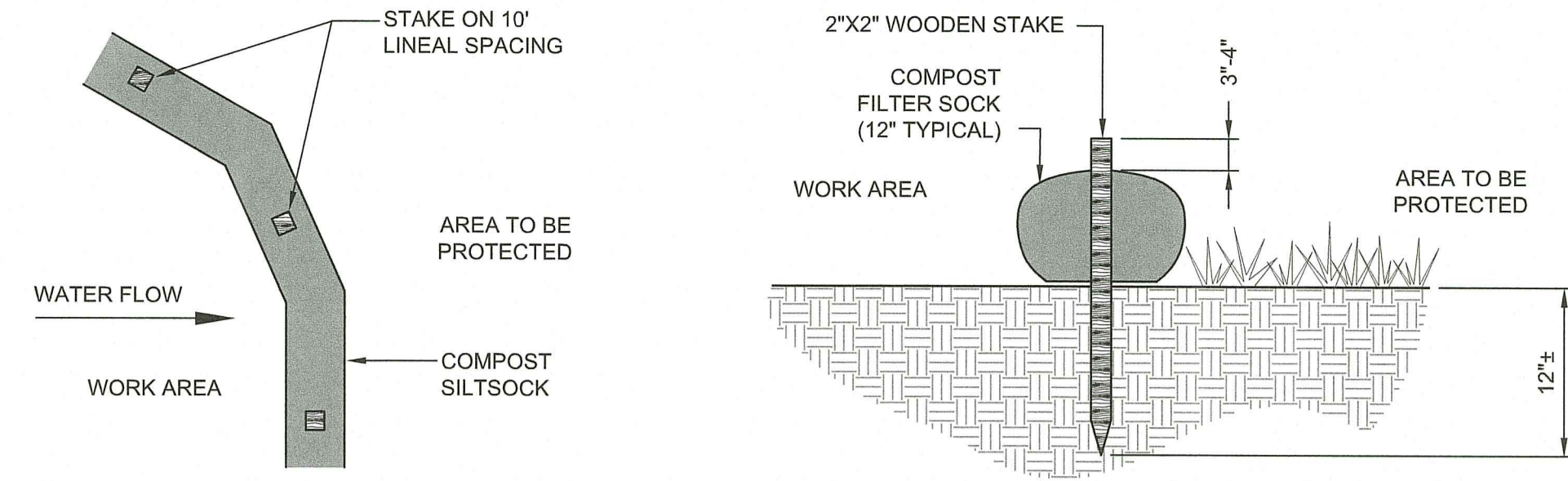
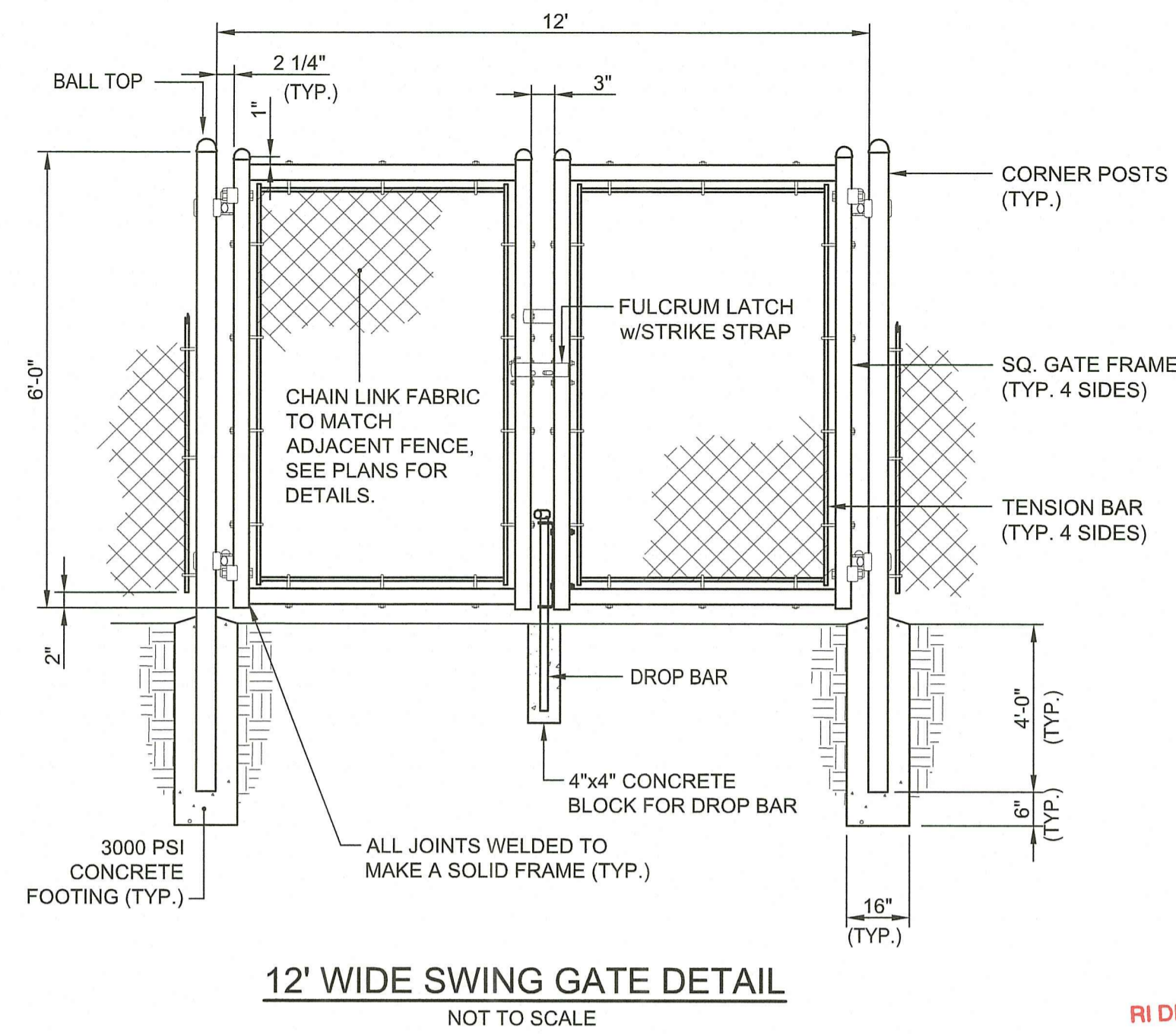
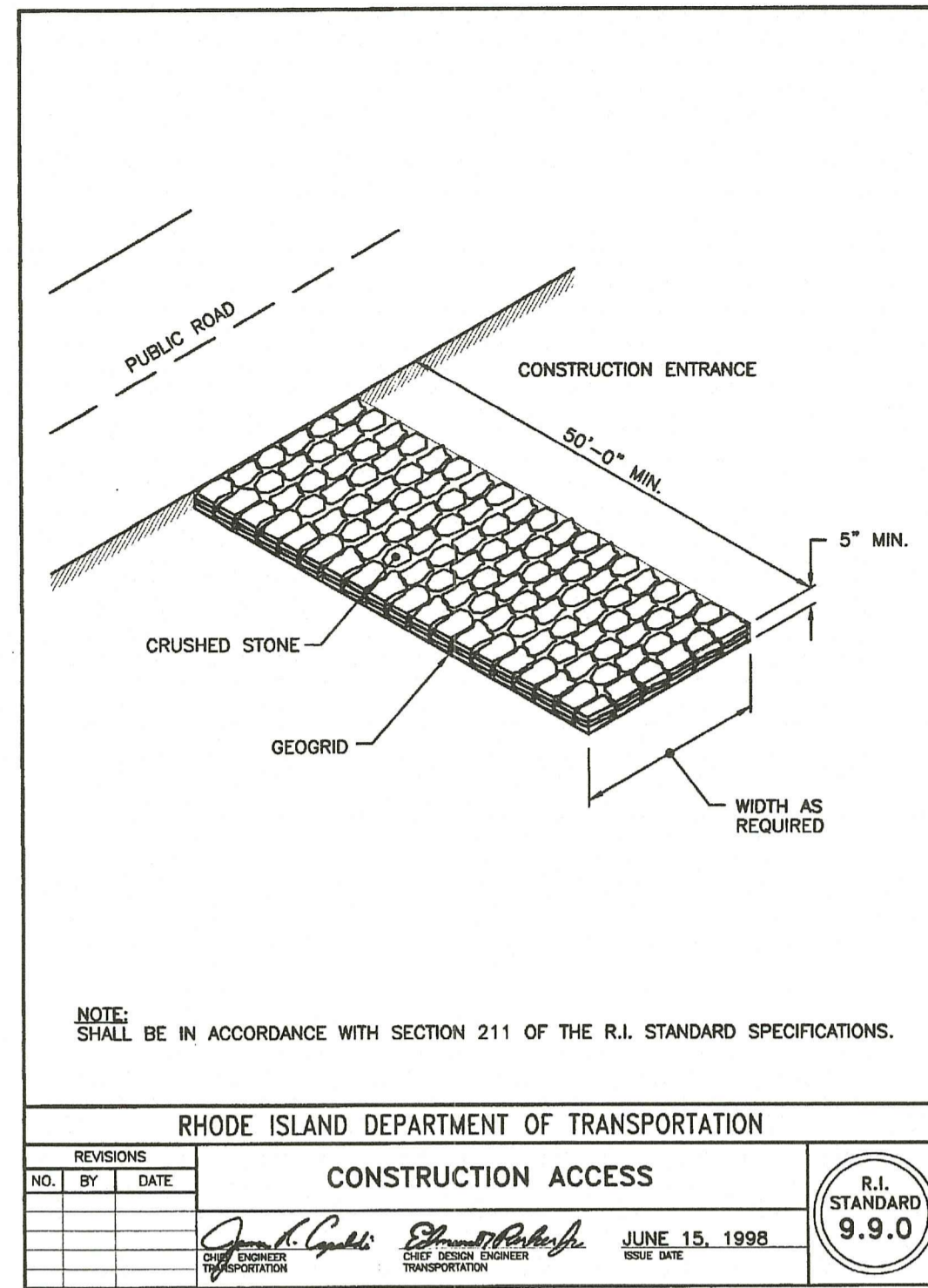
GRADING, UTILITY AND DRAINAGE PLAN 1

DRAWING NO.: C3.1  
SHEET NO. 11 OF 16

SAVE DATE: 2-Jun-22 3:12:44 PM PLOT DATE: 2-Jun-22 3:18:19 PM  
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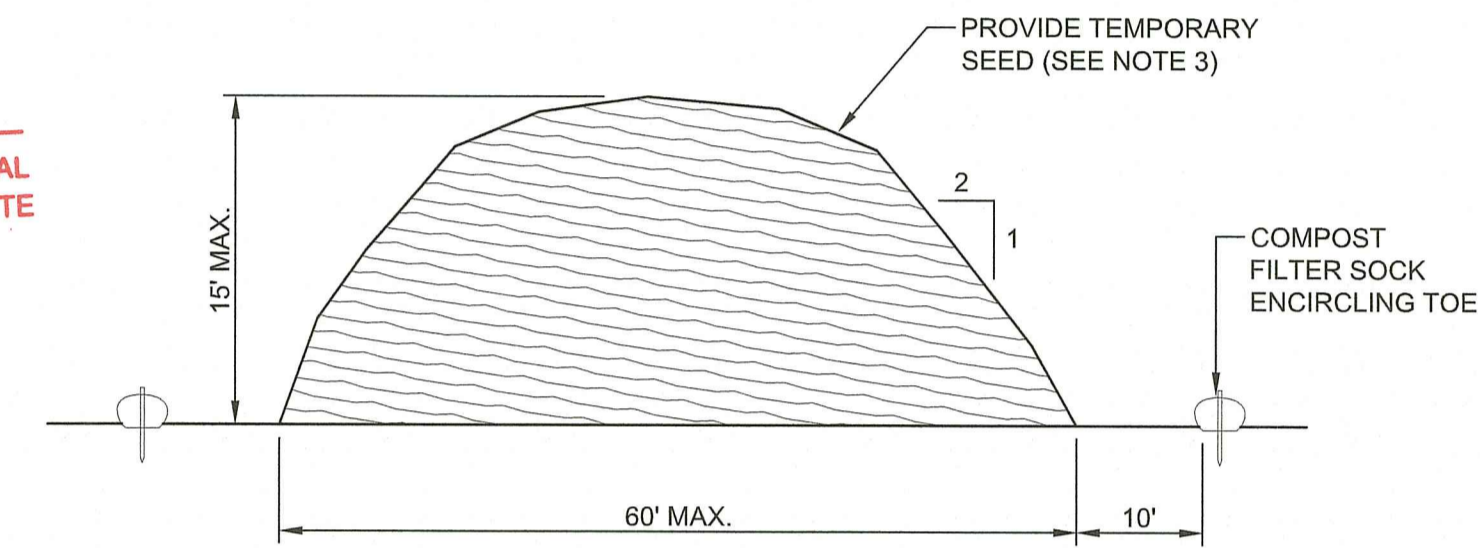




- NOTES:
1. COMPOST/ SOIL/ ROCK/ SEED FILL TO MEET APPLICATION REQUIREMENTS.
  2. COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE AS DETERMINED BY ENGINEER.
  3. IF SOCK NETTING MUST BE JOINED, FIT BEGINNING OF NEW SOCK OVER END OF OLD SOCK, OVERLAPPING BY 2 FEET AND STACK OVERLAP. IF SOCK NETTING IS NOT JOINED, OVERLAP OLD SOCK WITH NEW ONE BY MINIMUM OF 2 FEET.

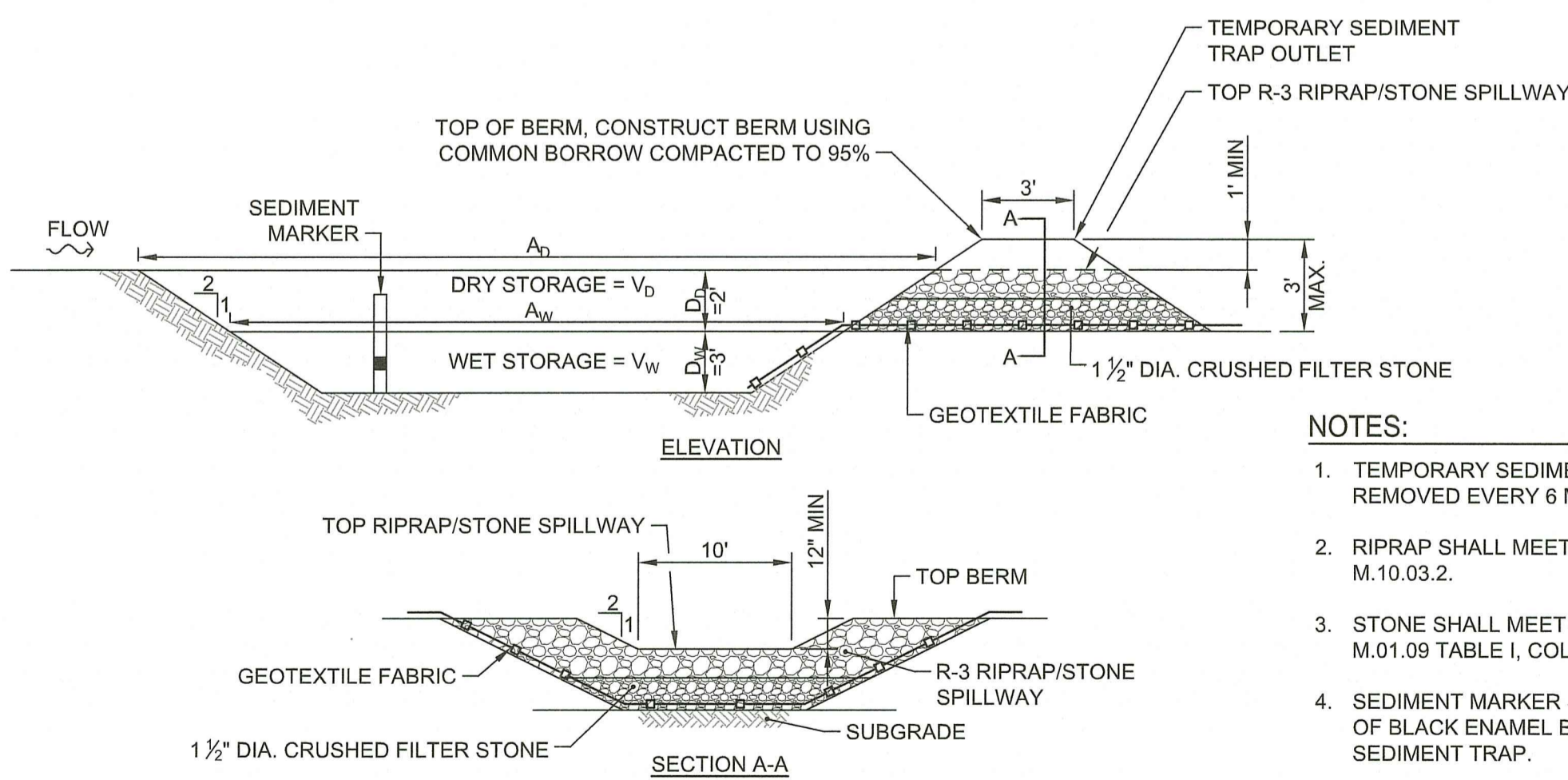
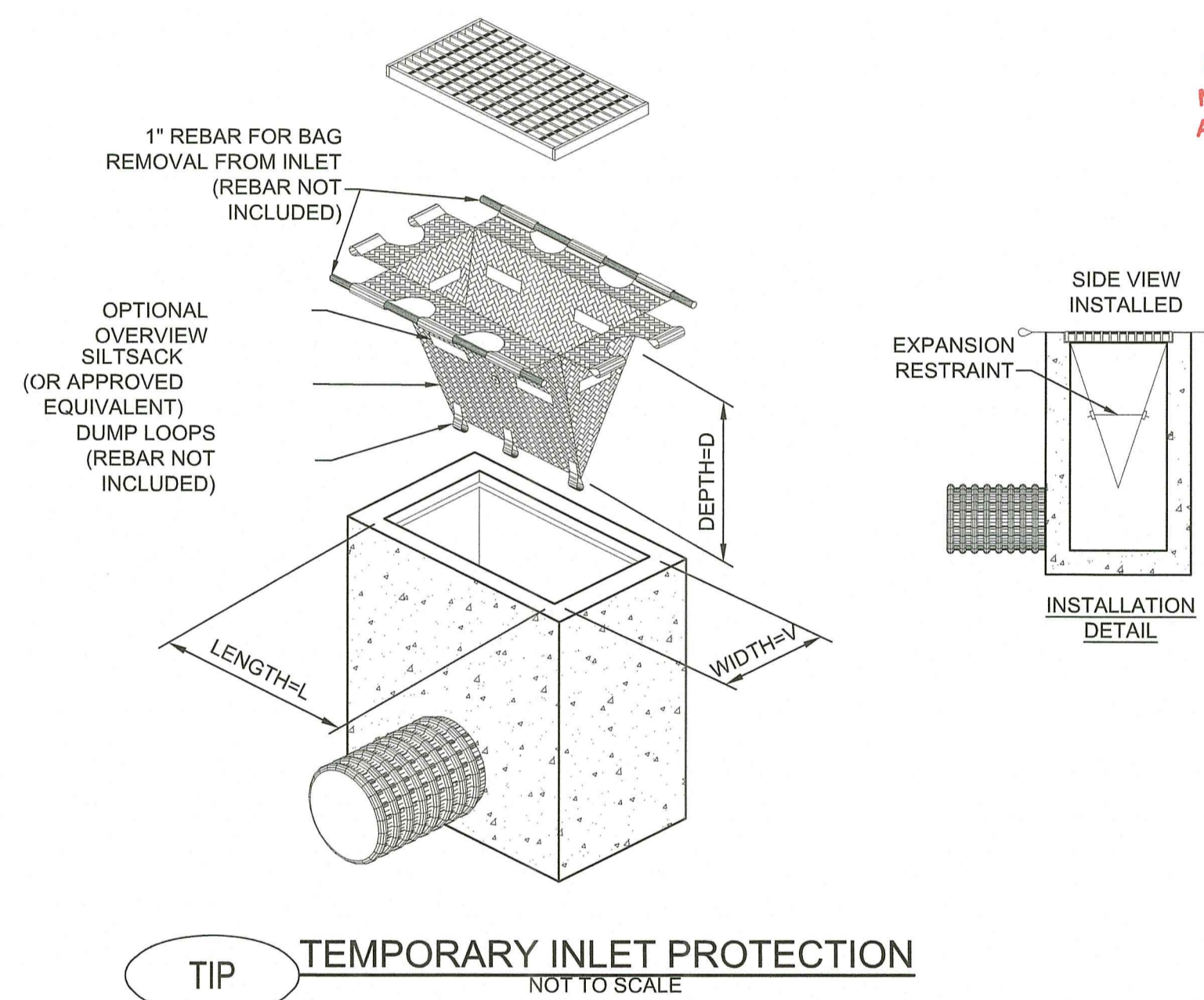
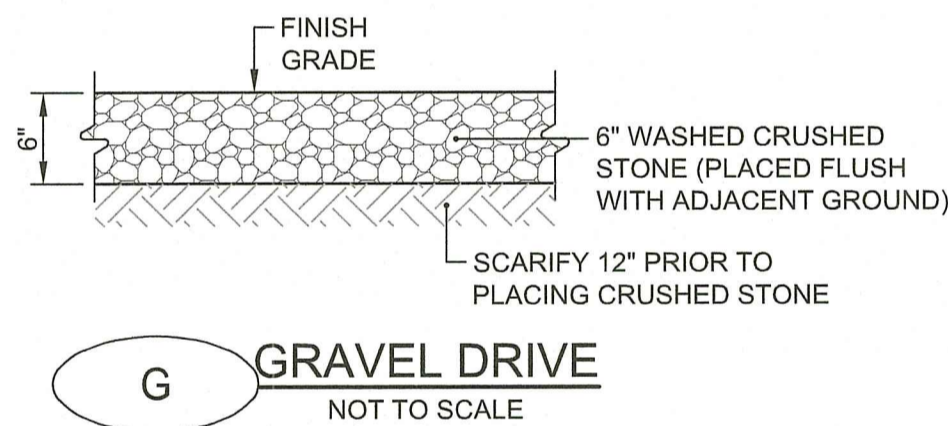
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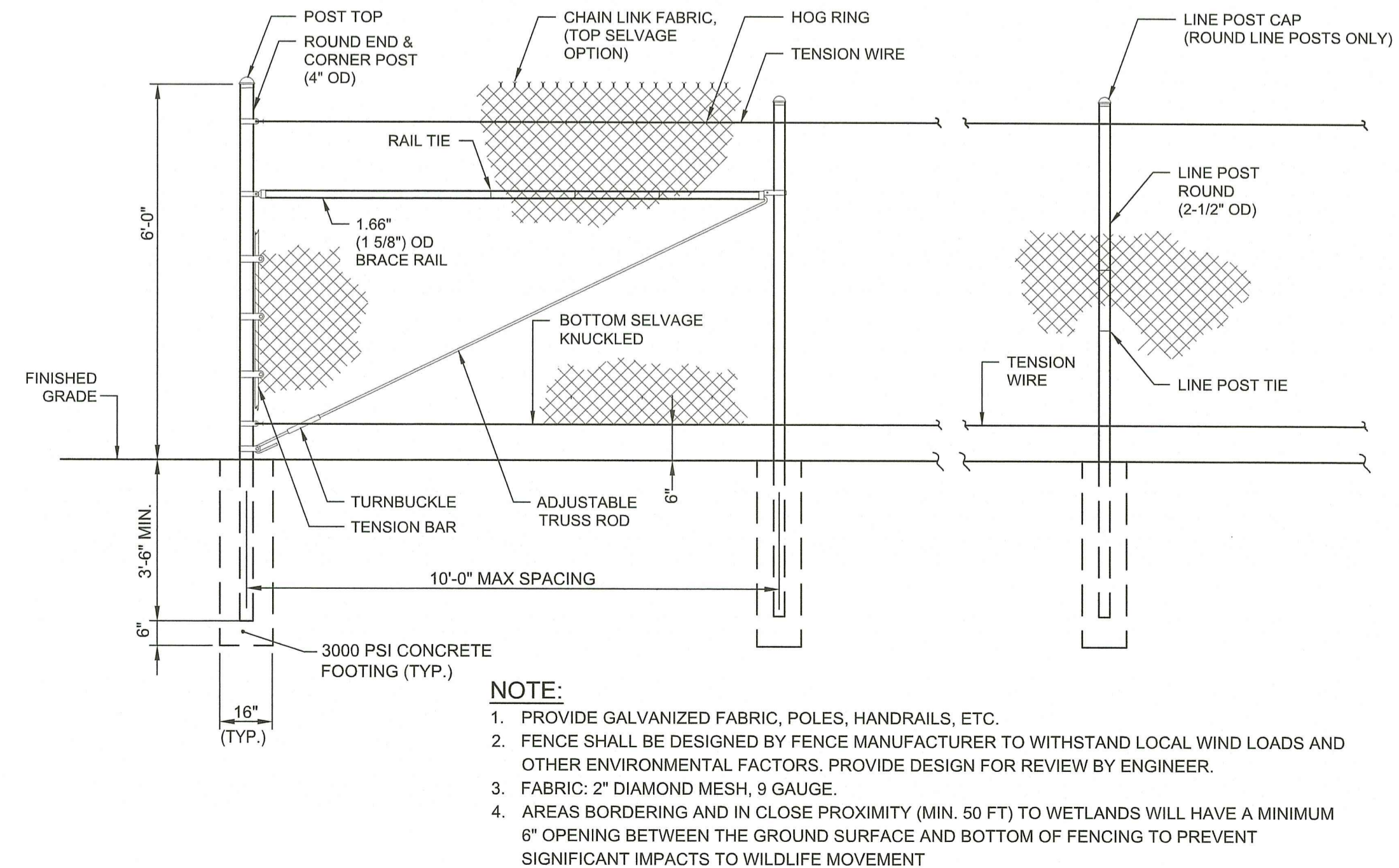
- NOTES:
1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE A PLAN SHOWING THE PROPOSED LOCATION OF ALL STOCKPILE AREAS.
  2. STOCKPILE AREA SHALL NOT EXCEED SPECIFIED DIMENSIONS WITHOUT APPROVAL FROM ENGINEER.
  3. STOCKPILED ERODIBLE MATERIAL THAT WILL NOT BE USED FOR GREATER THAN 14 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED IMMEDIATELY FOLLOWING PLACEMENT. USE RIDOT STD. M.18.10.5 SEED MIX.

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- NOTES:
1. TEMPORARY SEDIMENT TRAPS SHALL BE CLEANED OR REMOVED EVERY 6 MONTHS.
  2. RIPRAP SHALL MEET RIDOT STANDARD SPECIFICATION M.10.03.2.
  3. STONE SHALL MEET RIDOT STANDARD SPECIFICATION M.01.09 TABLE I, COLUMN V (FILTER STONE).
  4. SEDIMENT MARKER SHALL BE INSTALLED SUCH THAT TOP OF BLACK ENAMEL BAND IS 1.5' FROM THE BOTTOM OF THE SEDIMENT TRAP.
  5. TEMPORARY SEDIMENT TRAP SHALL BE SIZED (LxW) BY THE CONTRACTOR IN ACCORDANCE WITH THE TABLE BELOW WHEN PREPARING THE EROSION AND SEDIMENT CONTROL PLAN.
  6. THE MAXIMUM CONTRIBUTING AREA TO TEMPORARY SEDIMENT TRAP IS 5 ACRES.

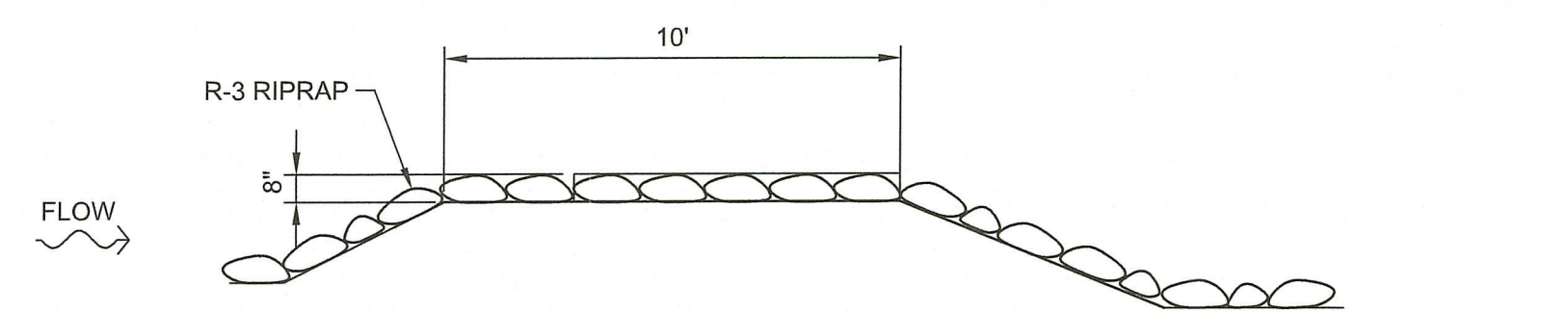
EXPOSED AREA (ACRES)	L <sub>w</sub> (FT)	W <sub>w</sub> (FT)	A <sub>w</sub> (FT)	V <sub>w</sub> (CF)	V <sub>0</sub> (CF)	TOTAL STORAGE V <sub>w</sub> & V <sub>0</sub> (CF)
5.00	100	50	5,000	12,750	10,616	23,366



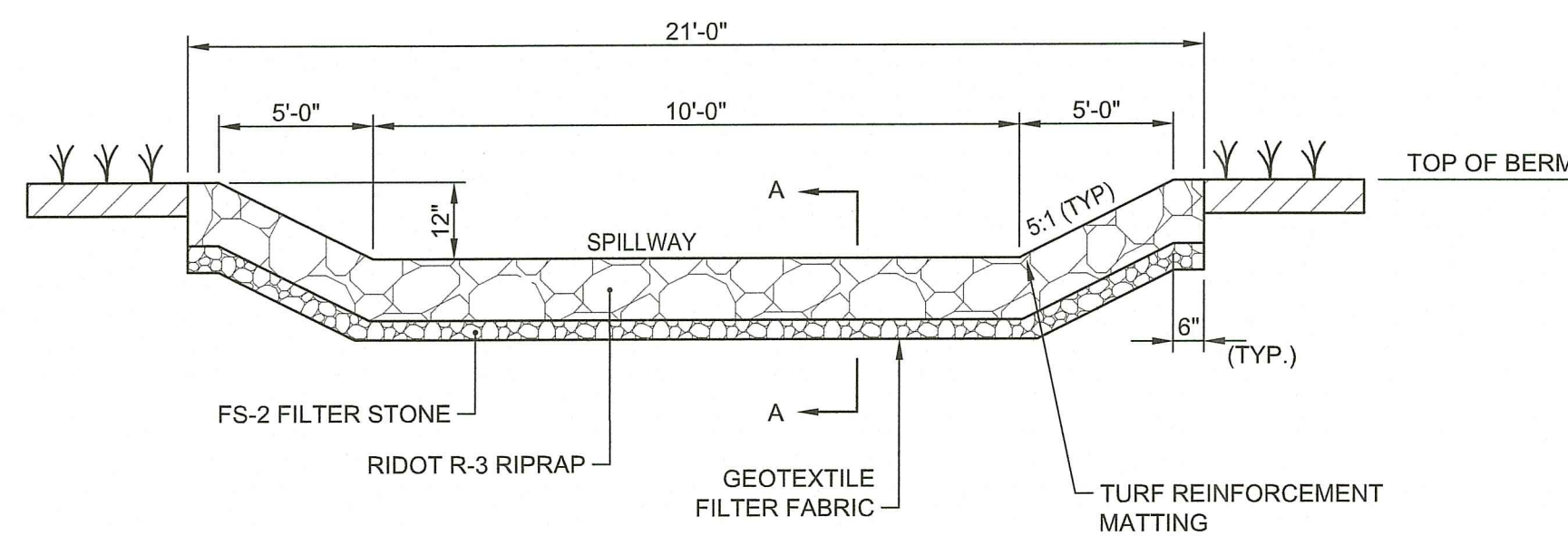
- NOTE:
1. PROVIDE GALVANIZED FABRIC, POLES, HANDRAILS, ETC.
  2. FENCE SHALL BE DESIGNED BY FENCE MANUFACTURER TO WITHSTAND LOCAL WIND LOADS AND OTHER ENVIRONMENTAL FACTORS. PROVIDE DESIGN FOR REVIEW BY ENGINEER.
  3. FABRIC: 2" DIAMOND MESH, 9 GAUGE.
  4. AREAS BORDERING AND IN CLOSE PROXIMITY (MIN. 50 FT) TO WETLANDS WILL HAVE A MINIMUM 6" OPENING BETWEEN THE GROUND SURFACE AND BOTTOM OF FENCING TO PREVENT SIGNIFICANT IMPACTS TO WILDLIFE MOVEMENT



RI Environmental Management  
JUN 03 2022  
Office of Water Resources

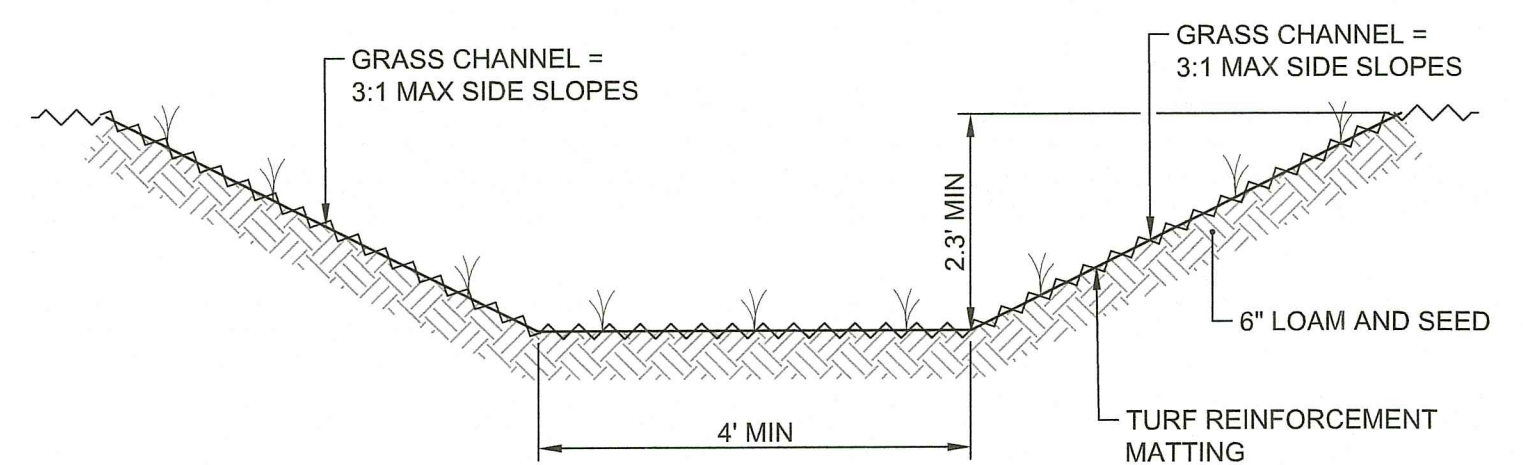


SPILLWAY SECTION A-A



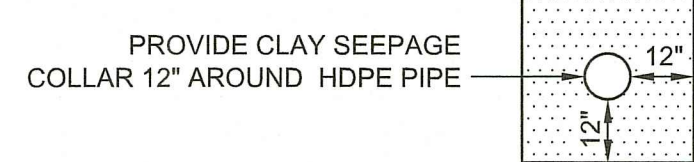
RIPRAP SPILLWAY DETAIL  
NOT TO SCALE

- NOTES:
- RIPRAP SHALL MEET RIDOT STANDARD SPECIFICATIONS M.10.03.2.

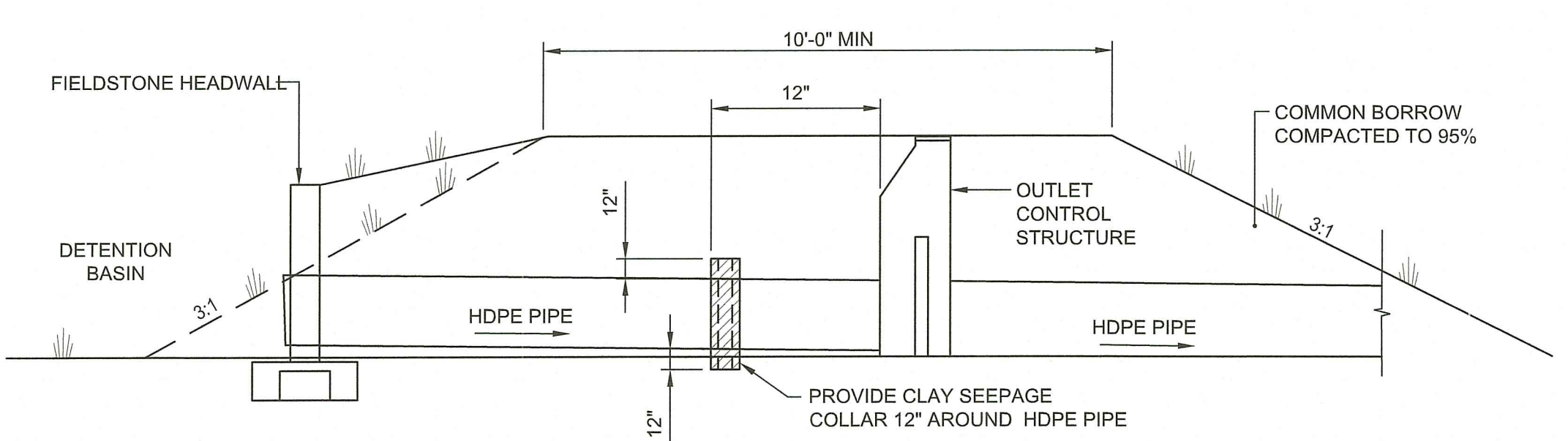


GRASS CHANNEL DETAIL  
NOT TO SCALE

NOTE:  
SEED WITH OPEN CHANNEL GRASSES AS SPECIFIED IN APPENDIX B OF THE RI STORMWATER MANUAL.

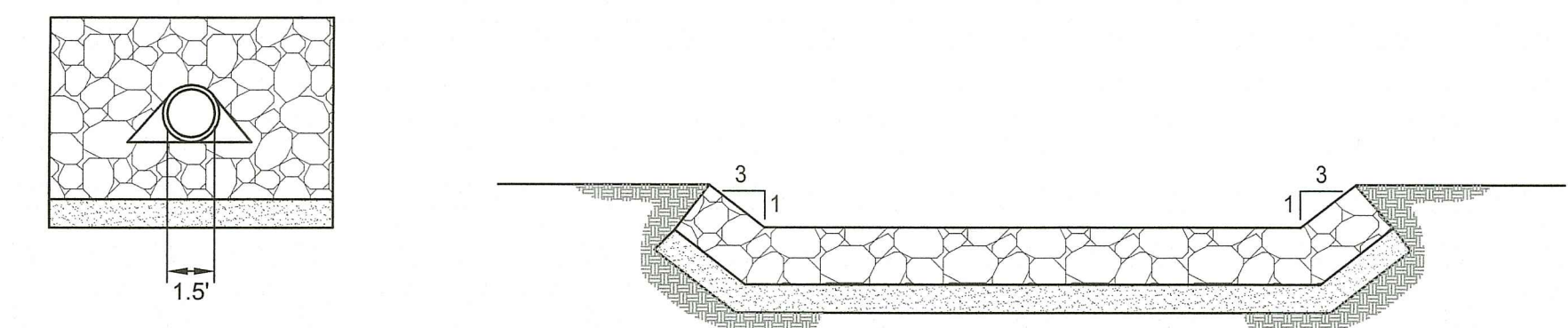


PROVIDE CLAY SEEPAGE COLLAR 12" AROUND HDPE PIPE

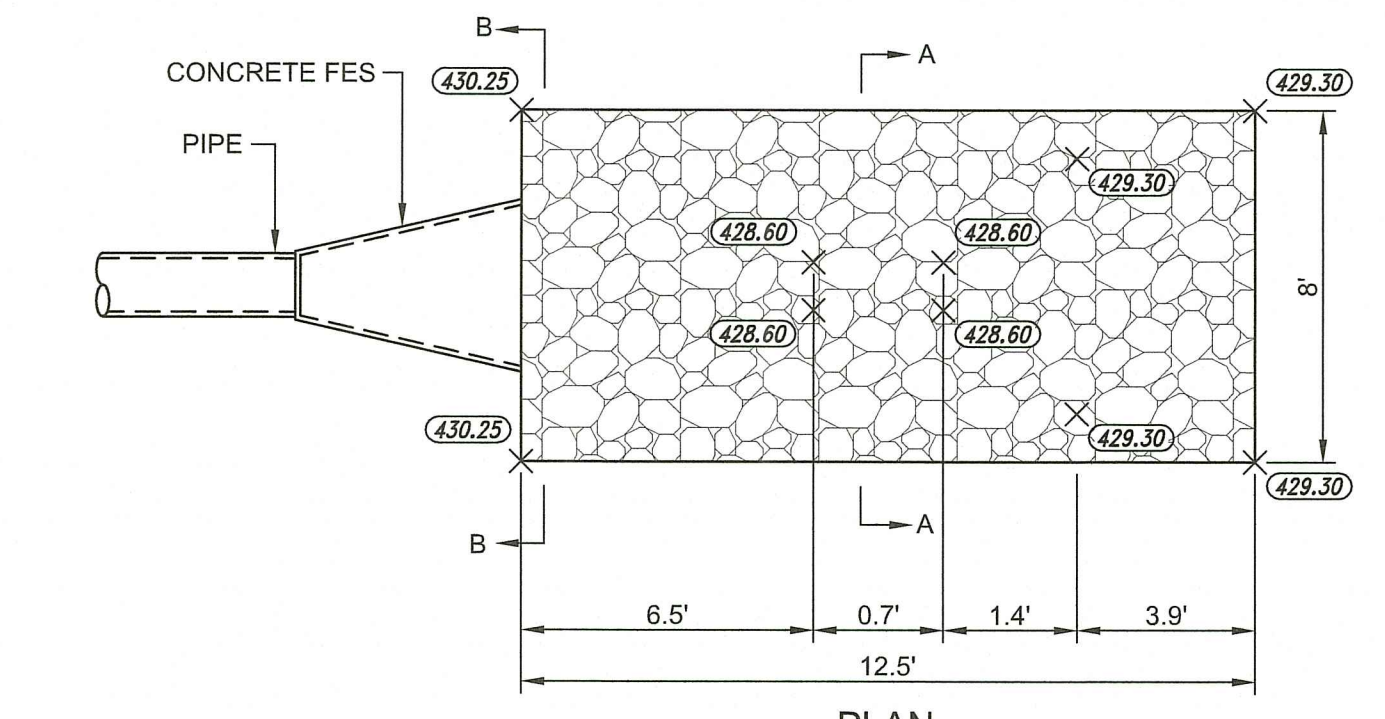


DETENTION BASIN BERM SECTION AT OUTLET  
NOT TO SCALE

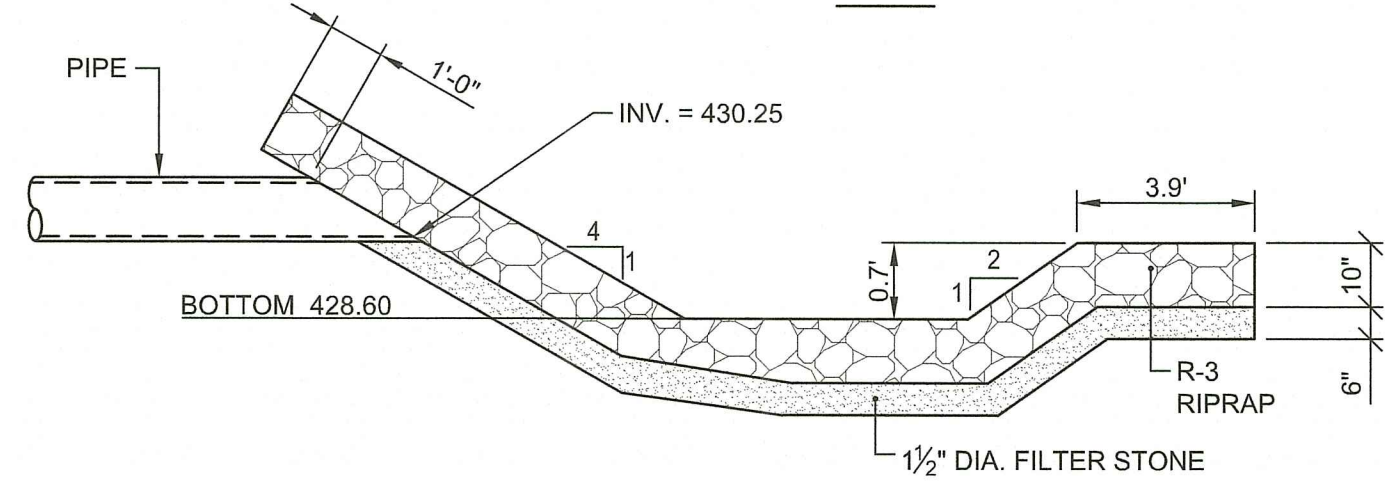
- NOTES:
- DETENTION BASIN BERM SHALL BE CONSTRUCTED WITH COMMON BORROW PLACED IN 12" LIFTS AND COMPACTED TO 95% TO FINISH GRADE.
  - REMOVE ALL EXISTING TOPSOIL AND ORGANIC MATERIAL PRIOR TO CONSTRUCTING DETENTION BASIN BERM.
  - COMMON BORROW SHALL EXTEND A MINIMUM OF 12" BELOW DETENTION BASIN BOTTOM.
  - COMMON BORROW WITHIN THE BASIN BERM SHALL BE FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES (75MM) IN ANY DIMENSION, DEBRIS, BROKEN PAVEMENT, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER.
  - COMMON BORROW WITHIN THE BASIN BERM SHALL HAVE BETWEEN 5 TO 15 PERCENT BY WEIGHT PASSING THE NO. 4 SIEVE AND BETWEEN 30 TO 55 PERCENT BY WEIGHT PASSING THE NO. 200 SIEVE.



SECTION B-B SECTION A-A

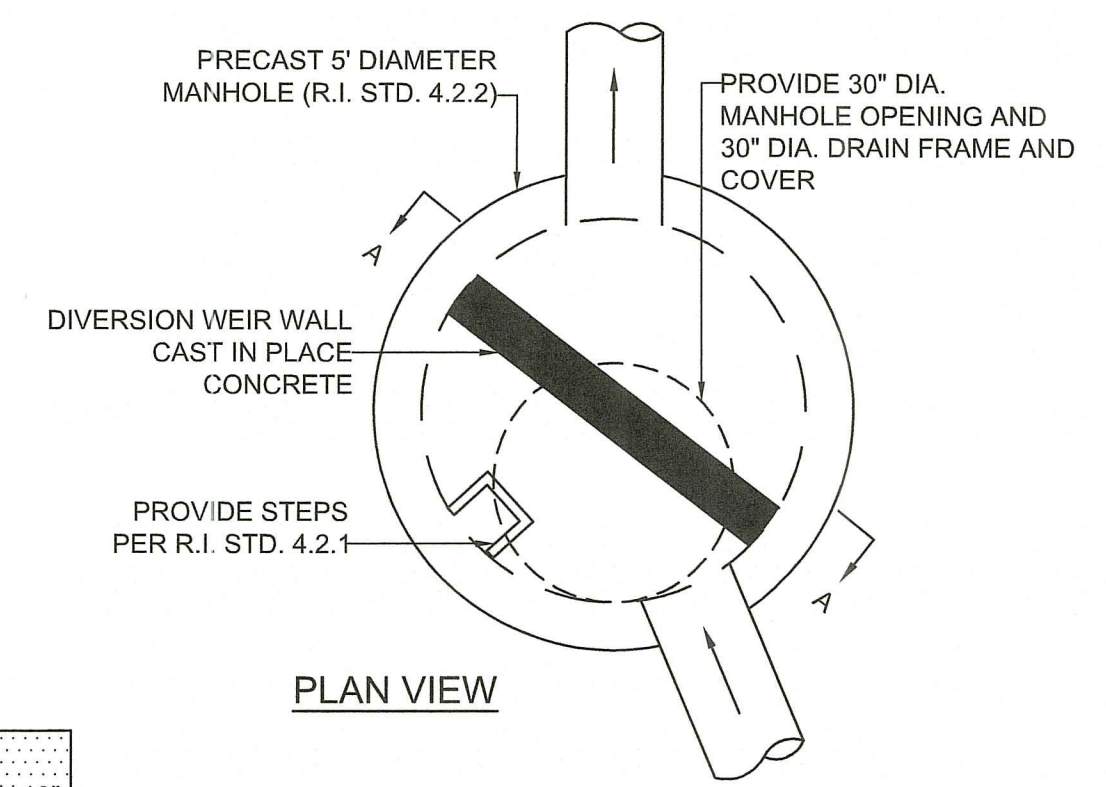


PLAN

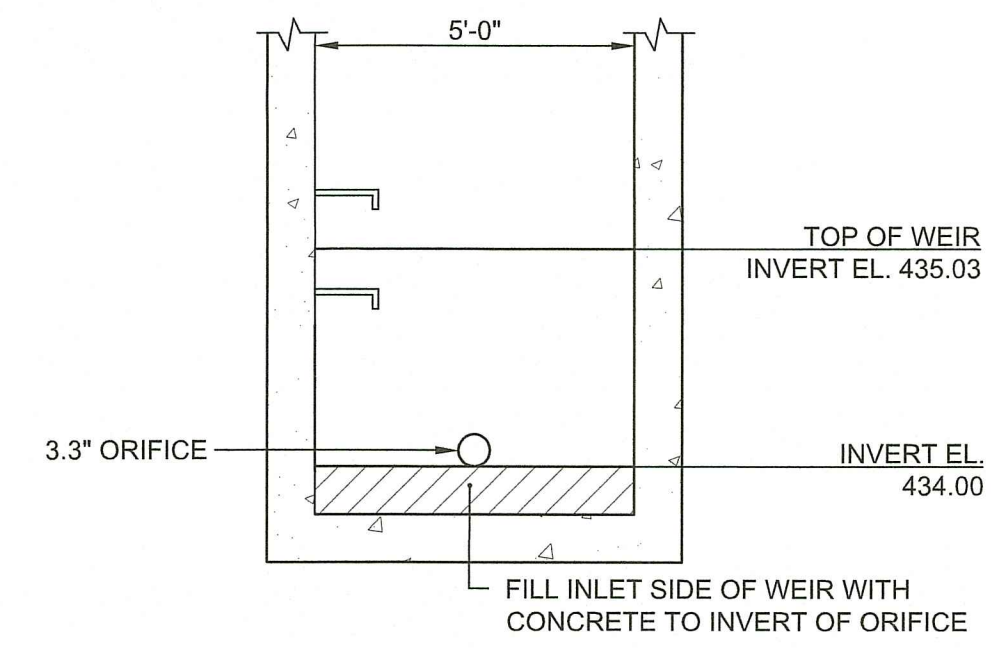


SIDE ELEVATION

RPP RIPRAP PLUNGE POOL 1  
NOT TO SCALE



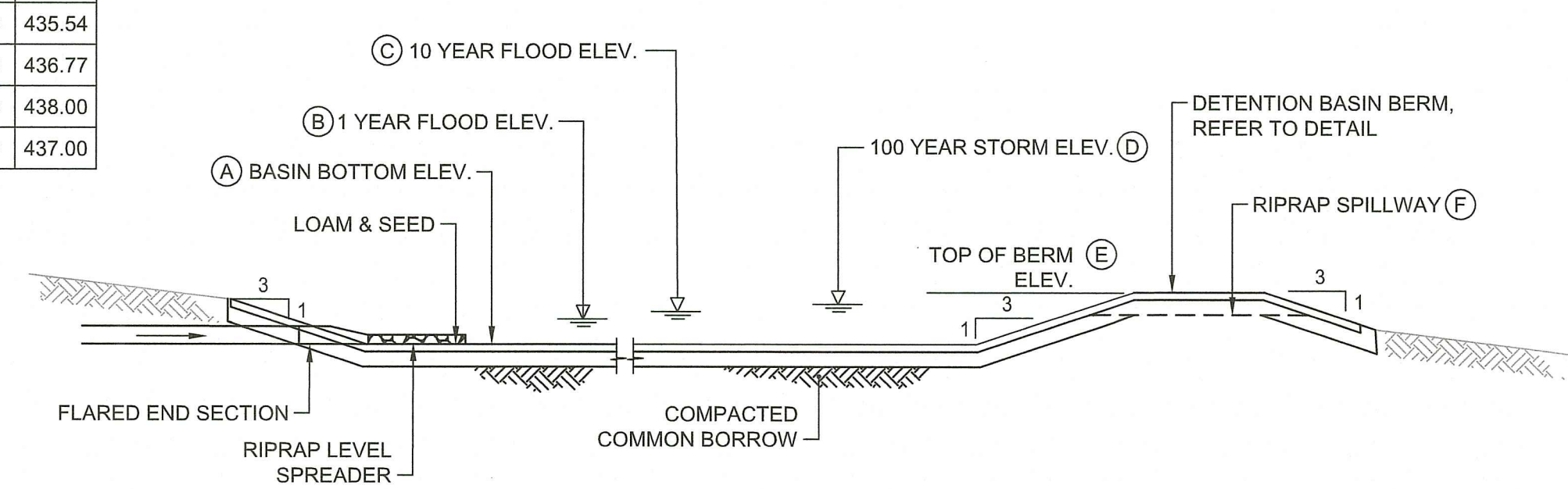
PLAN VIEW



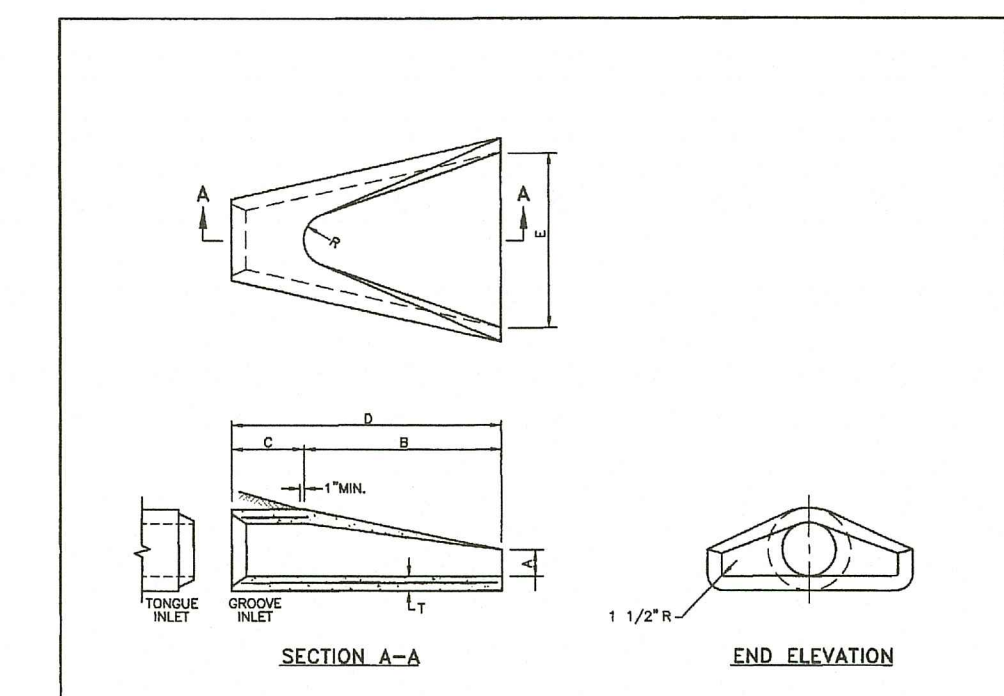
SECTION A-A WEIR WALL ELEVATION

OUTLET CONTROL STRUCTURE (OCS)  
NOT TO SCALE

DB	1
(A)	434.00
(B)	434.92
(C)	435.54
(D)	436.77
(E)	438.00
(F)	437.00



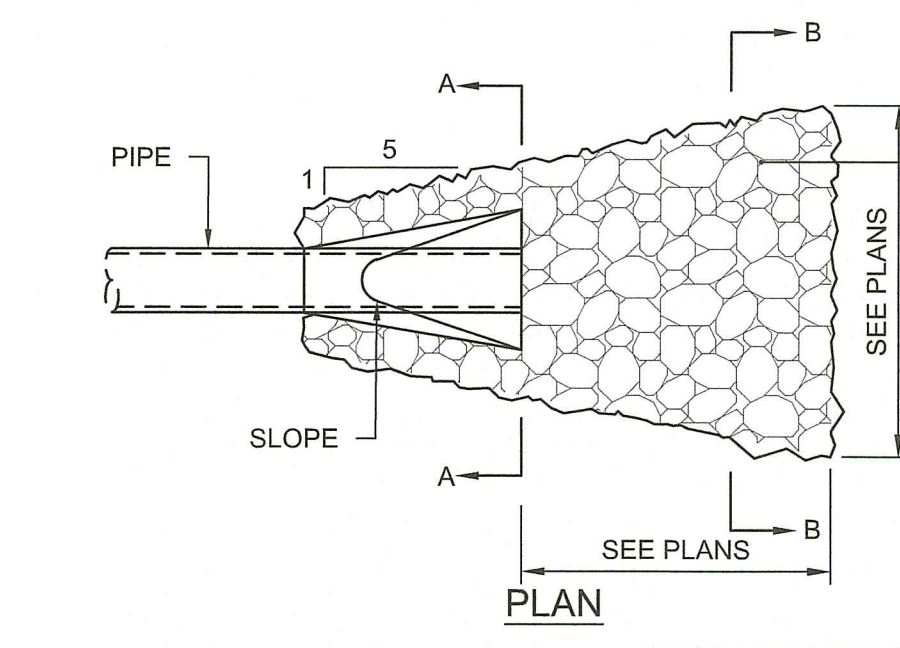
DETENTION BASIN SECTION  
NOT TO SCALE



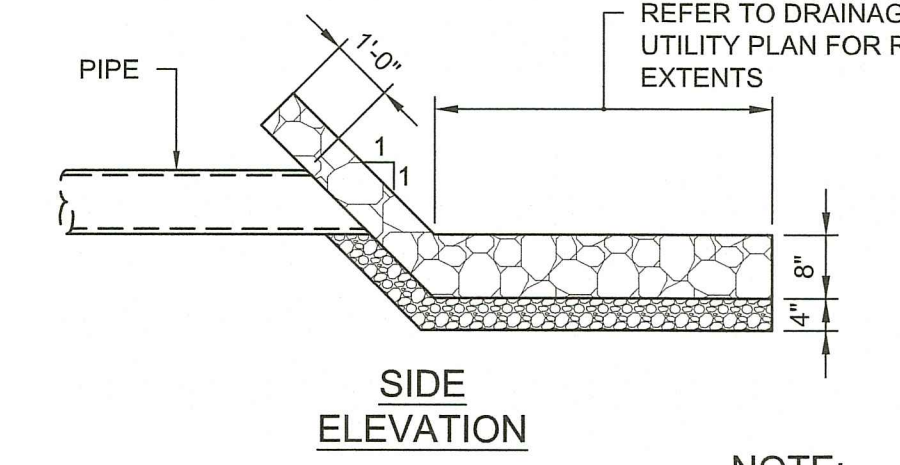
DIMENSIONS							REINFORCEMENT
DA	A	B	C	D	E	F	ONE BAR PER REINFORCEMENT MIN. AREA OF EACH WAY (SQ. IN. (FT <sup>2</sup> ))
1'-0"	4"	2'-0"	4'-0"	7/8"	6'-0"	7/8"	0.048
1'-3"	6"	2'-3"	5'-10"	6'-11"	5'-0"	11"	0.054
1'-6"	8"	2'-6"	7'-10"	8'-11"	5'-0"	13"	0.060
2'-0"	12"	3'-0"	11'-2"	12'-11"	5'-0"	15"	0.072
2'-3"	14"	3'-3"	12'-2"	13'-11"	5'-0"	17"	0.084
3'-0"	18"	4'-0"	15'-0"	16'-11"	5'-0"	21"	0.098
3'-6"	22"	4'-6"	17'-2"	18'-11"	5'-0"	25"	0.108
4'-0"	26"	5'-0"	19'-4"	20'-11"	5'-0"	29"	0.120
4'-6"	30"	5'-6"	21'-6"	22'-11"	5'-0"	33"	0.132
5'-0"	34"	6'-0"	23'-8"	24'-11"	5'-0"	37"	0.144

NOTE: SHALL BE IN ACCORDANCE WITH SECTION 701 OF THE R.I. STANDARD SPECIFICATIONS.

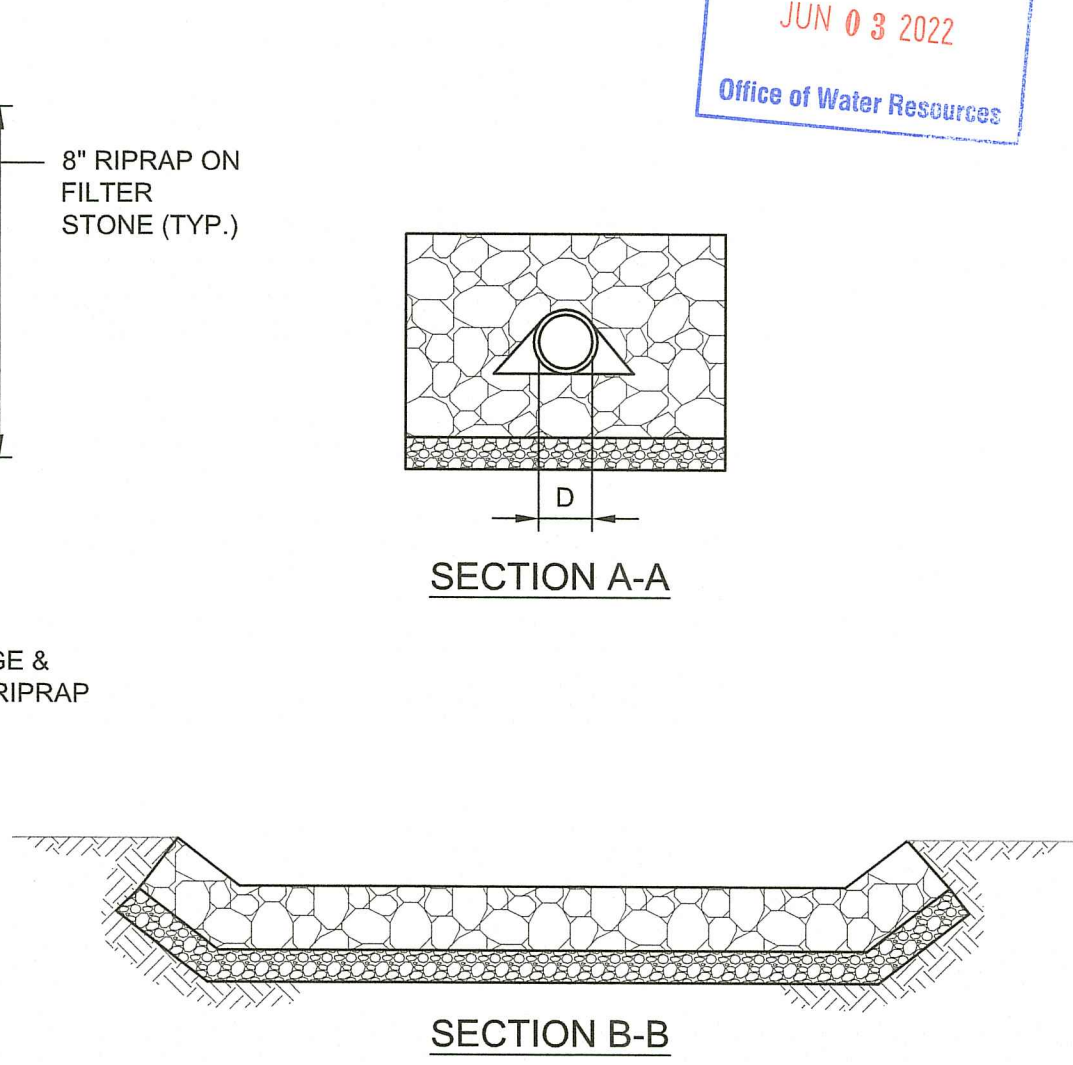
RHODE ISLAND DEPARTMENT OF TRANSPORTATION  
PRECAST CONCRETE FLARED END SECTION  
JUNE 15, 1998



PLAN



SIDE ELEVATION

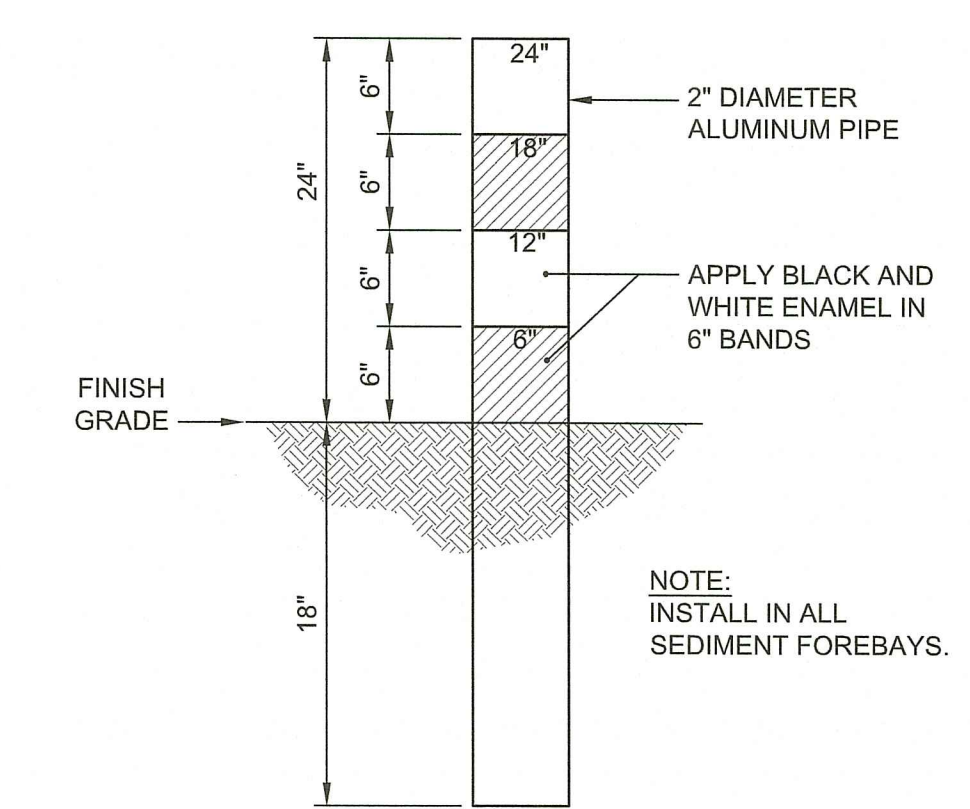


SECTION A-A

SECTION B-B

RLS RIPRAP LEVEL SPREADER  
NOT TO SCALE

NOTE:  
RIPRAP AND FILTER STONE SIZE TO BE DETERMINED



SM SEDIMENT MARKER 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: JUN 3 0 2022 FILE #: 22-0005  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Nancy L. Freeman*

REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT NO.: 21156.00  
DATE: JUNE 1, 2022  
SCALE: AS NOTED  
DESIGNED BY: MA  
CHECKED BY: MA  
DRAWN BY: AWB  
APPROVED BY: DLP  
DRAWING TITLE:

DETAILS 3

DRAWING NO.: C4.3

SHEET NO. 16 OF 16