

PROPRIETARY INFORMATION: THIS DRAWING IS THE PROPERTY OF AMEC ENVIRONMENT & INFRASTRUCTURE AND IS NOT TO BE LOANED OR REPRODUCED IN ANY WAY WITHOUT THE PERMISSION OF AMEC ENVIRONMENT & INFRASTRUCTURE

WEST MAIN ROAD SOLAR 2, LLC

3.1 MW GROUND MOUNTED SOLAR PV DEVELOPMENT

WEST MAIN ROAD PARCEL 30-8

PORTSMOUTH, RHODE ISLAND 02871

FEBRUARY 22, 2021

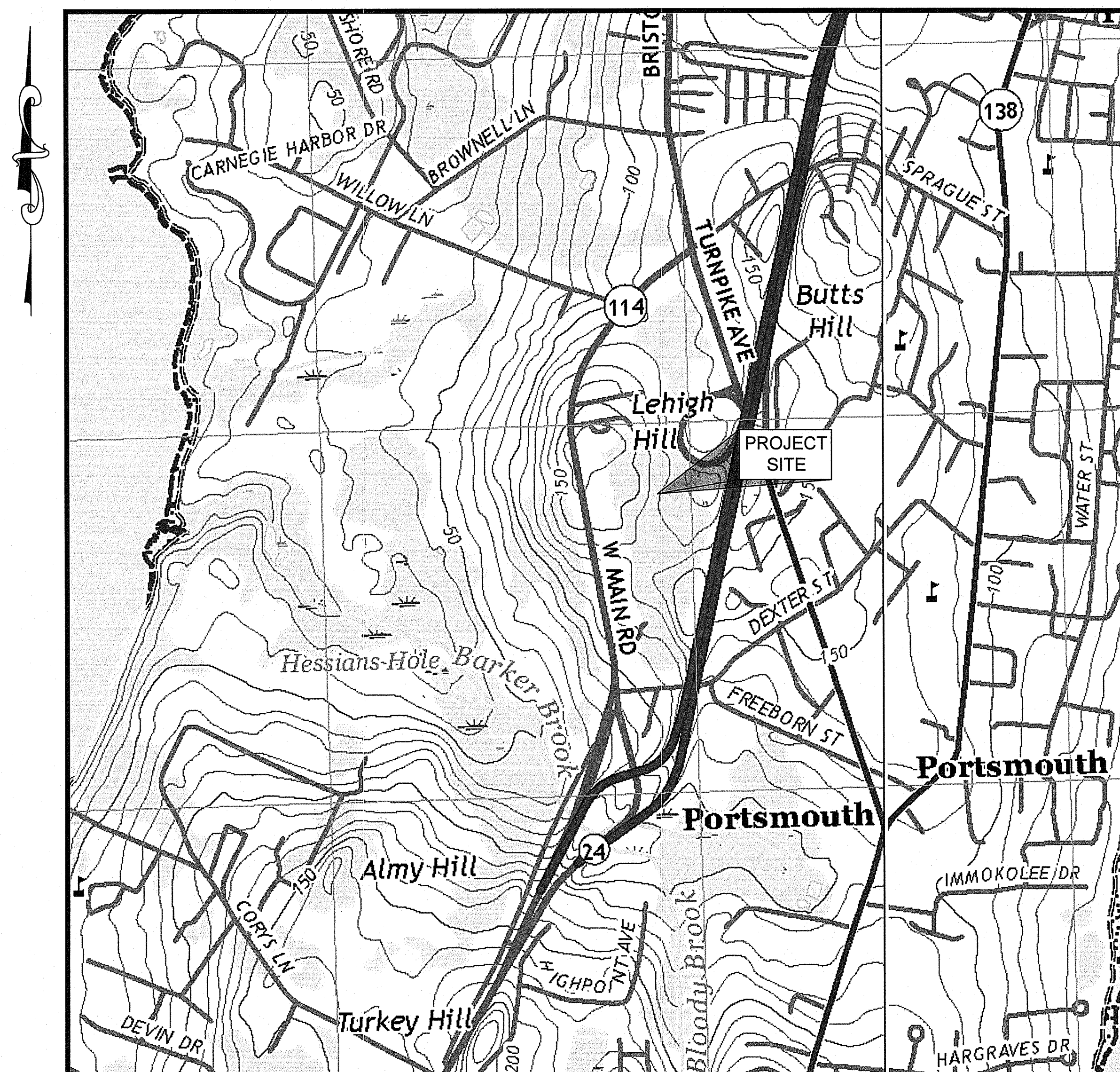
LAST REVISED JULY 19, 2021

ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



AERIAL IMAGE
SCALE: 1" = 800'



LOCUS MAP
SCALE: 1" = 800'

DRAWING INDEX

SHEET NUMBER	DRAWING TITLE	DRAWING NUMBER
	COVER SHEET	
1	EXISTING CONDITIONS PLAN	V-101
2	PROPOSED SITE PLAN	C-101
3	SOIL EROSION AND SEDIMENT CONTROL PLAN	C-102
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PROPERTY OWNER

REGAL, LLC
40 ROGER WILLIAMS CT
PORTSMOUTH, RI 02871

DEVELOPED BY

WEST MAIN ROAD SOLAR 2, LLC
48 WATERFIELD ROAD
PO BOX 808
WINCHESTER, MASSACHUSETTS 01890

PREPARED BY

wood.
WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.
275 PROMENADE STREET, SUITE 100
PROVIDENCE, RHODE ISLAND 02908

RI Environmental Management
JUL 22 2021
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 19 2021 FILE # 21-0130
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

C:\Users\dama.dempsey\OneDrive - Wood PL\Documents\Projects\Work from Home Starting 2020-03-18\Ecomox\Ecomox Portsmouth RI\Map 30 Lot 8 - 3652202097.027.0 CAD\7.1 Design - Permitting\sheet01 - 3652202097 - G-000.dwg - G-000 - Jul. 19. 2021 3:54pm - dama.dempsey

- NOTES:**
- OWNER OF RECORD: REGAL, LLC, SEE REFERENCE TO BOOK 567, PAGE 205 OF PORTSMOUTH COUNTY OF NEWPORT, STATE OF RHODE ISLAND. FOR FURTHER REFERENCE SEE TOWN PLAT 30 / LOT 08. THE TOTAL AREA OF THE LOCUS PARCEL IS 24 ACRES MORE OR LESS.
 - HORIZONTAL DATUM IS BASED ON RHODE ISLAND STATE GRID COORDINATE SYSTEM NAD83 (2011). VERTICAL DATUM IS REFERENCED TO NAVD 88. CONTOUR INTERVAL IS 1 FOOT AS SHOWN AND IS BASED ON THE COMBINATION OF EXISTING RHODE ISLAND GIS ELECTRONIC LIDAR FILES (NGS) AND SURVEY GRADE GPS GROUND SHOTS.
 - WETLANDS SHOWN ON THIS PLAN WERE DELINEATED AND LOCATED BY GPS BY WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC. ON MARCH 9 2021.
 - PROPERTY IS LOCATED IN FLOOD ZONE "X" AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY MAP NUMBER 4405050082J - PANEL 0082 J - B2 OF 228 FOR THE TOWN OF PORTSMOUTH, NEWPORT COUNTY, RHODE ISLAND, WITH AN EFFECTIVE DATE OF SEPTEMBER 04, 2013. ZONE "X" IS DESCRIBED AS AN AREA OF MINIMAL FLOODING.
 - NEITHER WOOD & I OR SGC ENGINEERING, LLC HAVE NOT INDEPENDENTLY VERIFIED THE LOCATION, EXISTENCE, AND SERVICEABILITY OF ANY UTILITIES AND MAKES NO GUARANTEE TO THE COMPLETENESS OR THE ACCURACY OF ANY UTILITIES. ADDITIONAL UTILITIES MAY EXIST IN THE FIELD, WHICH ARE NOT SHOWN ON THIS PLAN. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD PRIOR TO EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES. CALL "DIG SAFE" AT 1-888-344-7233 OR DIAL 811. SGC ENGINEERING, LLC ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN ON THIS PLAN.
 - ZONING INFORMATION:
6.1. ZONING DISTRICT: R20, RESIDENTIAL
6.2. FRONTAGE ALONG WEST MAIN ROAD = 538.83'
 - LOCATION OF NEWPORT ELECTRIC CORPORATION EASEMENT IS BASED ON THE RHODE ISLAND DEPARTMENT OF PUBLIC WORKS AS DEFINED AND SHOWN ON PLAN REFERENCE NO. 5.

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- PLAN REFERENCE:**
(NEWPORT COUNTY / PORTSMOUTH, RHODE ISLAND)
- (COUNTY OF NEWPORT / PORTSMOUTH, RHODE ISLAND)
 - PLAN ENTITLED, "PLAT SHOWING LAND OF ERVING L. & CATHERINE A. LUDLAM", DATED OCTOBER 1940 - SEE PLAN BOOK 3 PAGE 3 / PLAN BOOK 5 PAGE 59 / PLAN BOOK 1A PAGE 52.
 - PLAN ENTITLED, "ANSELMO DRIVE SUBDIVISION PROPERTY OF ANSELMO HEIRS BEING PART OF A. P. 27 LOT 33 WEST MAIN ROAD PORTSMOUTH, RHODE ISLAND" DATED JUNE 1994 - PLAT 295.
 - PLAN ENTITLED, "SUBDIVISION OF MARY L. DUFFIE LAND OFF WEST MAIN ROAD PORTSMOUTH, RHODE ISLAND" DATED AUGUST 1945 - PLAN BOOK 3 PAGE 37 AND SEE BOOK 40 PAGE 543.
 - PLAN ENTITLED, "PLAT SHOWING LAND IN PORTSMOUTH - TAKEN IN FEE SIMPLE BY THE STATE OF RHODE ISLAND & PROVIDENCE PLANTATIONS BY THE DIRECTOR OF PUBLIC WORKS" DATED APRIL 1962 - SHEETS 11, 12, 13, 14, AND 15 - SEE PLAT 1179.

LEGEND:

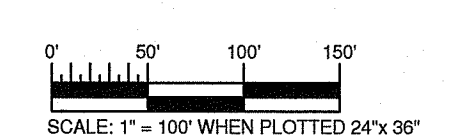
---	PROPERTY LINE
---	ABUTTERS PROPERTY LINE
---	EDGE OF BITUMINOUS CONCRETE
---	BITUMINOUS CONCRETE CURB
---	STONEWALL
---	APPROXIMATE TREE LINE
---	OVERHEAD WIRE
---	APPROXIMATE WETLANDS
---	50' PERIMETER WETLAND
---	WETLAND FLAG WITH IDENTIFIER
---	UTILITY POLE
---	GUY WIRE
---	ELECTRIC MANHOLE
---	DRAIN MANHOLE
---	CATCH BASIN
---	APPROXIMATE TEST PIT LOCATION

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 19 2021 FILE # 21-0130
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Emily L. Freeman

Ri Environmental Management
JUL 22 2021
Office of Water Resources

CERTIFICATION:
THIS SURVEY AND PLAN CONFORM TO CLASS 1 STANDARD AS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS. THE FIELD WORK WAS COMPLETED DURING THE MONTH OF FEBRUARY 2021.

SCOT MACDONALD R.P.L.S. NO. 1996 MAY 5, 2021



REVISION	DATE	ISSUE / REVISION DESCRIPTION
4	07/19/2021	REVISED PER RDM COMMENTS
3	06/22/2021	STATE PERMIT APPLICATIONS
2	05/27/2021	REVISED PER RDM COMMENTS
1	05/05/2021	TEST PITS ADDED
0	02/22/2021	ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

PROJECT: 3.1 MW GROUND MOUNTED SOLAR DEVELOPMENT PARCEL 30-8 WEST MAIN ROAD PORTSMOUTH, RHODE ISLAND

TITLE: EXISTING CONDITIONS PLAN

CLIENT: WEST MAIN ROAD SOLAR 2, LLC 48 WATERFIELD ROAD PO BOX 808 WINCHESTER, MA 01890

DESIGNED BY: CMR	DRAWN BY: DED
CHECKED BY: GAA	SCALE: AS SHOWN
PROJECT NUMBER: 3652200297	DRAWING NUMBER: V-101
SHEET NUMBER: 1 OF 8	

ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

- GENERAL NOTES:**
- SOLAR PV ARRAY AND ELECTRICAL DESIGN, INCLUDING UTILITY POLES, PERFORMED BY OTHERS. ELECTRICAL EQUIPMENT AND COMPONENTS SHOWN TO ILLUSTRATE LOCATIONS ONLY. REFER TO ELECTRICAL DRAWINGS FOR DETAILED ELECTRICAL SYSTEM INFORMATION.
 - AREAS WITHIN THE PROPOSED FENCE AREA ARE TO BE CLEARED, GRUBBED, AND SEEDED WITH LOW GROWTH GRASS. AREAS OUTSIDE OF THE PROPOSED FENCE ARE TO BE CLEARED OF TALL VEGETATION AND SEEDED.

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Nancy L. Freeman

LEGEND:

EXISTING:

- 145 MAJOR CONTOUR
- MINOR CONTOUR
- PROPERTY LINE
- ADJUTERS PROPERTY LINE
- EDGE OF BITUMINOUS CONCRETE
- BITUMINOUS CONCRETE CURB
- STONEWALL
- APPROXIMATE TREE LINE
- OVERHEAD WIRE
- APPROXIMATE WETLANDS
- 50' PERIMETER WETLAND
- WETLAND FLAG WITH IDENTIFIER
- UTILITY POLE
- GUY WIRE
- ELECTRIC MANHOLE
- DRAIN MANHOLE
- CATCH BASIN
- APPROXIMATE TEST PIT LOCATION

PROPOSED:

- 145 MAJOR CONTOUR
- 143 MINOR CONTOUR
- SOLAR PV PANELS (1 C-502)
- UTILITY POLE (3 C-502)
- 6' HIGH CHAIN LINK FENCE (3 C-502)
- SILT FENCE (6 C-502)
- TREE CLEARING LINE (6 C-502)
- LIMIT OF DISTURBANCE (LOD)
- OVERHEAD ELECTRIC (OHE)
- ELECTRIC CONDUIT (EC)
- GRAVEL ACCESS WAY (2 C-502)
- BITUMINOUS DRIVEWAY APRON (4 C-502)
- CONSTRUCTION ACCESS (4 C-502)
- EROSION CONTROL MATTING (5 C-502)
- DIRECT SEEDED PERMANENT GROWSOXX BERM (3 C-502)
- 12" DIRECT SEEDED PERMANENT GROWSOXX BERM (3 C-502)

RI Environmental Management
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REVISION	DATE	ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION	APPROVED
4	07/19/2021	REVISED PER RIDEM COMMENTS	APV
3	06/22/2021	STATE PERMIT APPLICATIONS	APV
2	05/27/2021	REVISED PER RIDEM COMMENTS	APV
1	05/05/2021	DRAINAGE DESIGN REVISIONS	APV
0	02/22/2021	ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION	APV

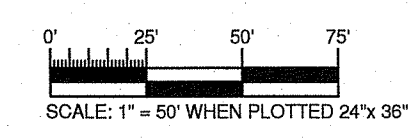
PROJECT: 3.1 MW GROUND MOUNTED SOLAR DEVELOPMENT PARCEL 30-8 WEST MAIN ROAD PORTSMOUTH, RHODE ISLAND

TITLE: SOIL EROSION AND SEDIMENT CONTROL PLAN

CLIENT: WEST MAIN ROAD SOLAR 2, LLC 48 WATERFIELD ROAD PO BOX 808 WINCHESTER, MA 01890

SEAL: ANDREW P. VARDAKIS No. 12219 REGISTERED PROFESSIONAL ENGINEER 7/19/2011

DESIGNED BY: CMR DRAWN BY: DED
 CHECKED BY: GAA SCALE: AS SHOWN
 PROJECT NUMBER: 3652200297
 DRAWING NUMBER: C-102
 SHEET NUMBER: 3 OF 8



ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

REVISED PER RIDEEM COMMENTS	STATE PERMIT APPLICATIONS	REVISED PER RIDEEM COMMENTS	DRAINAGE DESIGN REVISIONS	ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION	ISSUE / REVISION DESCRIPTION	DATE	REVISION	APPROVED	
4	07/19/2021	3	06/22/2021	2	05/27/2021	1	05/05/2021	0	02/22/2021

PROJECT: 3.1 MW GROUND MOUNTED SOLAR DEVELOPMENT PARCEL 30-8 WEST MAIN ROAD PORTSMOUTH, RHODE ISLAND

TITLE: PROPOSED CONSTRUCTION ACCESS

CLIENT: WEST MAIN ROAD SOLAR 2, LLC 48 WATERFIELD ROAD PO BOX 808 WINCHESTER, MA 01890

SEAL: ANDREW P. VARDAKIS No. 12219 REGISTERED PROFESSIONAL ENGINEER 7/19/2011

DESIGNED BY: CHR
CHECKED BY: GAA
PROJECT NUMBER: 3652200297
DRAWING NUMBER: C-103
SHEET NUMBER: 4 OF 8

GENERAL NOTE:
1. EXISTING GRADES ARE TO BE MAINTAINED FOR THE PROPOSED ACCESS ROAD.

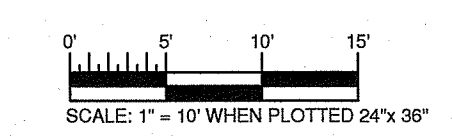
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- LEGEND:
- EXISTING:
- 145 MAJOR CONTOUR
 - MINOR CONTOUR
 - PROPERTY LINE
 - ABUTTERS PROPERTY LINE
 - EDGE OF BITUMINOUS CONCRETE
 - BITUMINOUS CONCRETE CURB
 - STONEWALL
 - APPROXIMATE TREE LINE
 - OVERHEAD WIRE
 - APPROXIMATE WETLANDS
 - 50' PERIMETER WETLAND
 - PW-PW WETLAND FLAG WITH IDENTIFIER
 - A-31 Δ UTILITY POLE
 - GUY WIRE
 - ⊕ ELECTRIC MANHOLE
 - ⊖ DRAIN MANHOLE
 - CATCH BASIN
 - ⊕ APPROXIMATE TEST PIT LOCATION
- PROPOSED:
- 145 MAJOR CONTOUR
 - 143 MINOR CONTOUR
 - SOLAR PV PANELS (1) (C-502)
 - UTILITY POLE (2) (C-502)
 - 6' HIGH CHAIN LINK FENCE (3) (C-502)
 - SILT FENCE (4) (C-502)
 - TC TREE CLEARING LINE
 - LOD LIMIT OF DISTURBANCE
 - OHE OVERHEAD ELECTRIC
 - EC ELECTRIC CONDUIT
 - GRAVEL ACCESS WAY (5) (C-502)
 - BITUMINOUS DRIVEWAY APRON (6) (C-502)
 - CONSTRUCTION ACCESS (7) (C-502)
 - EROSION CONTROL MATTING (8) (C-502)
 - DSPGB DIRECT SEEDED PERMANENT GROWSOXX BERM (9) (C-502)
 - 12" DSPGB 12" DIRECT SEEDED PERMANENT GROWSOXX BERM (10) (C-502)

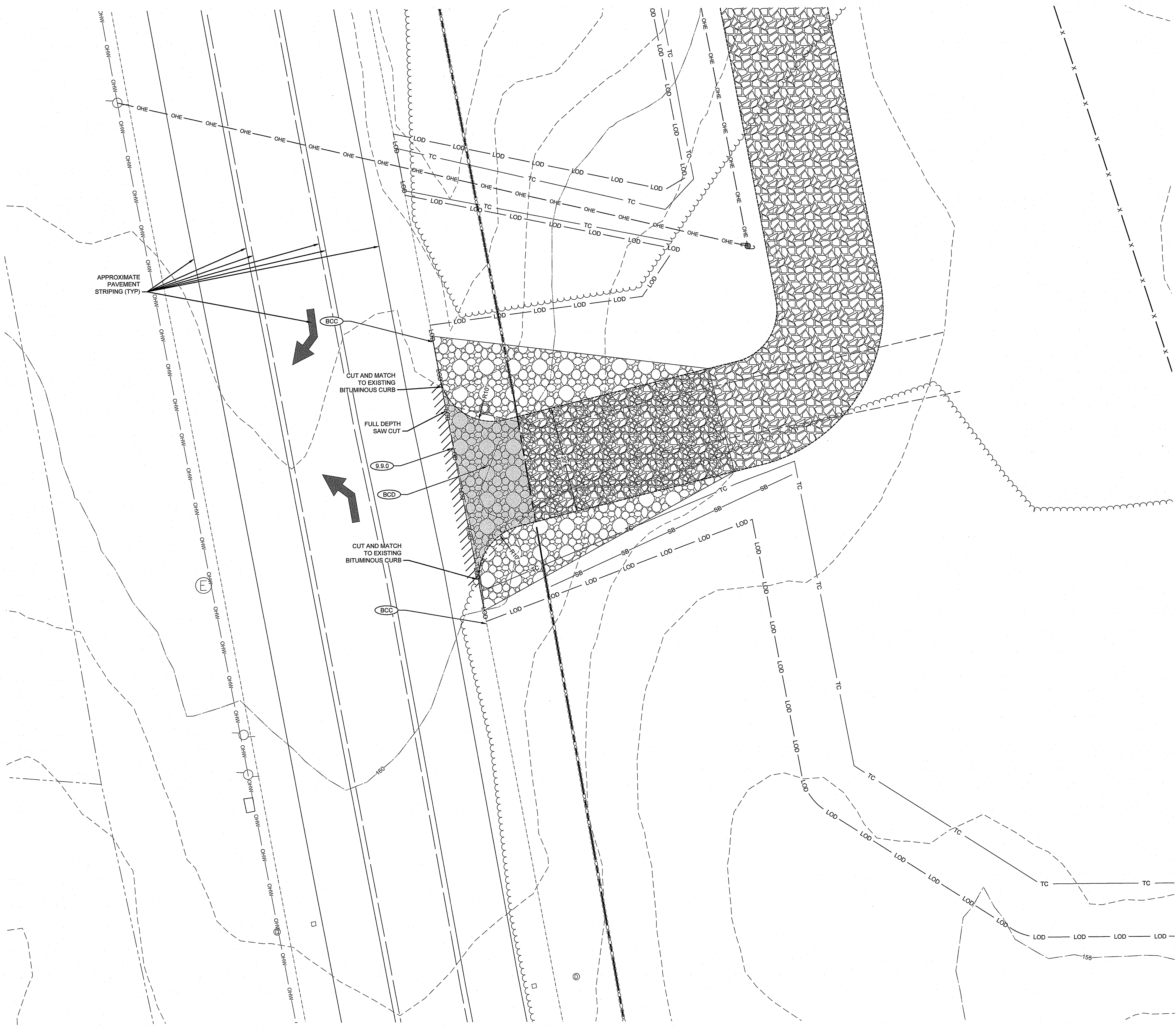
- RIDOT SITE LEGEND:
- 9.9.0 CONSTRUCTION ACCESS
 - BCC BITUMINOUS CONCRETE CURB
 - BCD BITUMINOUS CONCRETE DRIVEWAY
 - 3" BITUMINOUS CONCRETE CLASS 12.5
 - 6" GRAVEL BORROW SUBBASE COURSE

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Nancy L. Freeman



ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION

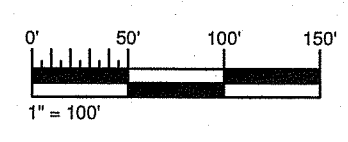




EXISTING SLOPES



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Dana L. Freeman



RI Environmental Management
 JUL 22 2021
 Office of Water Resources

wood.
 WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.
 275 PROMENADE STREET, SUITE 100
 PROVIDENCE, RHODE ISLAND 02908
 TELEPHONE: (401) 848-9200
 WEB: WWW.WOODPLC.COM

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REVISION	DATE	ISSUE / REVISION DESCRIPTION
4	07/19/2021	REVISED PER RIDEM COMMENTS STATE PERMIT APPLICATIONS
3	08/22/2021	REVISED PER RIDEM COMMENTS DRAINAGE DESIGN REVISIONS
2	08/27/2021	ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION
1	08/08/2021	
0	02/22/2021	

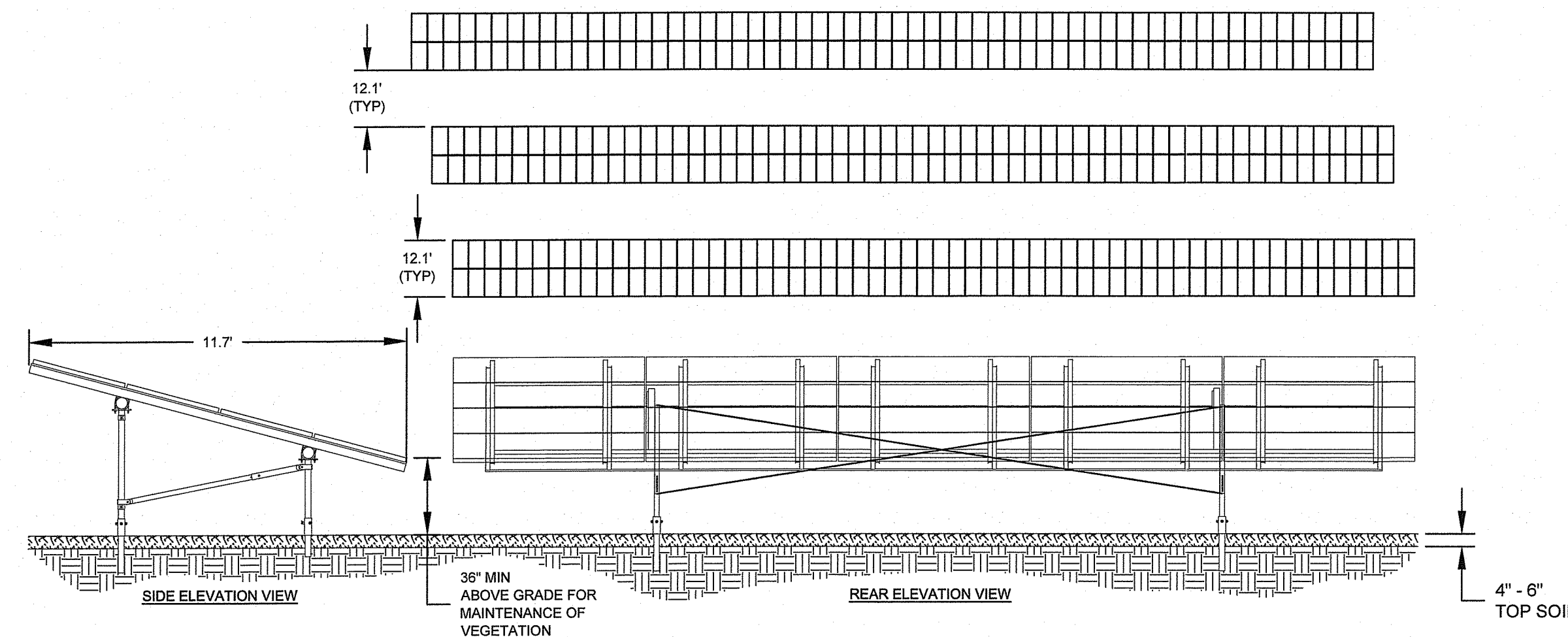
PROJECT: 3.1 MW GROUND MOUNTED SOLAR DEVELOPMENT PARCEL 30-B WEST MAIN ROAD PORTSMOUTH, RHODE ISLAND
 TITLE: SLOPES

CLIENT: WEST MAIN ROAD SOLAR 2, LLC 48 WATERFIELD ROAD PO BOX 808 WINCHESTER, MA 01890

SEAL: ANDREW P. VARDAKIS No. 12219 REGISTERED PROFESSIONAL ENGINEER 1/2/2011

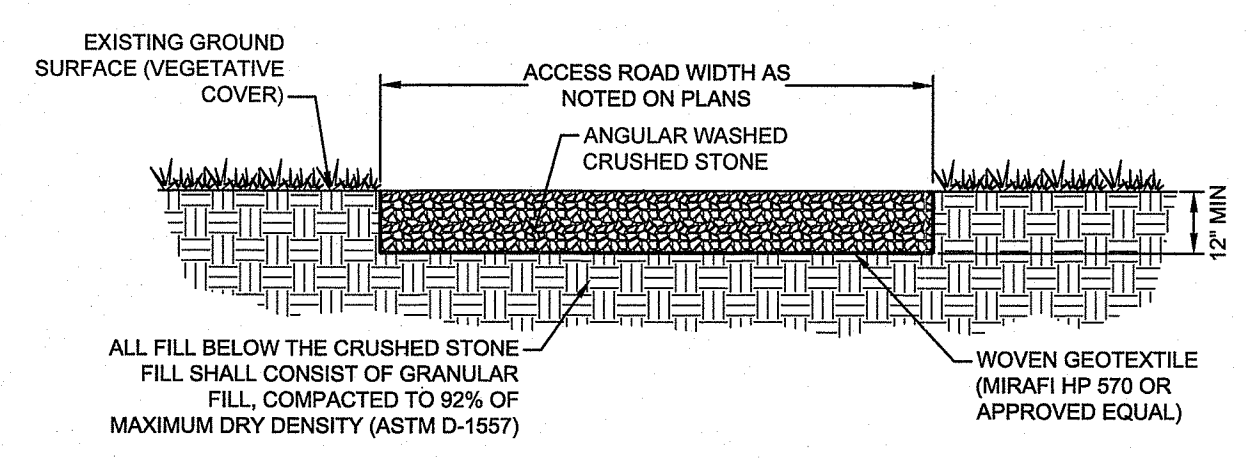
DESIGNED BY: CMR DRAWN BY: DED
 CHECKED BY: GAA SCALE: AS SHOWN
 PROJECT NUMBER: 3852200297
 DRAWING NUMBER: C-104
 SHEET NUMBER: 5 OF 8

ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION



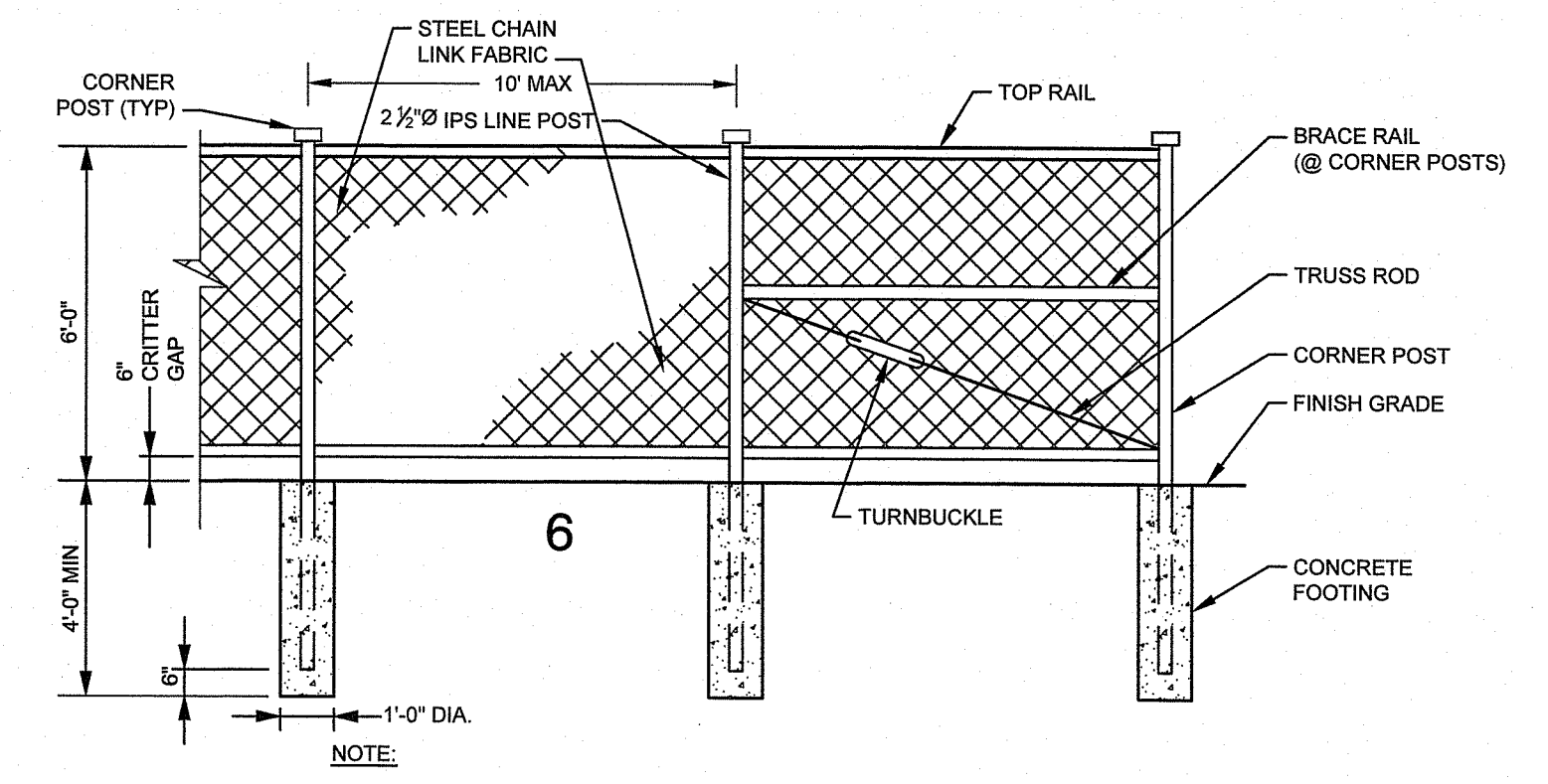
NOTE:
1. DESIGN FOR FOUNDATIONS, RACKING, AND MODULES BY OTHERS. DETAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY.

SOLAR PV ARRAY
NOT TO SCALE



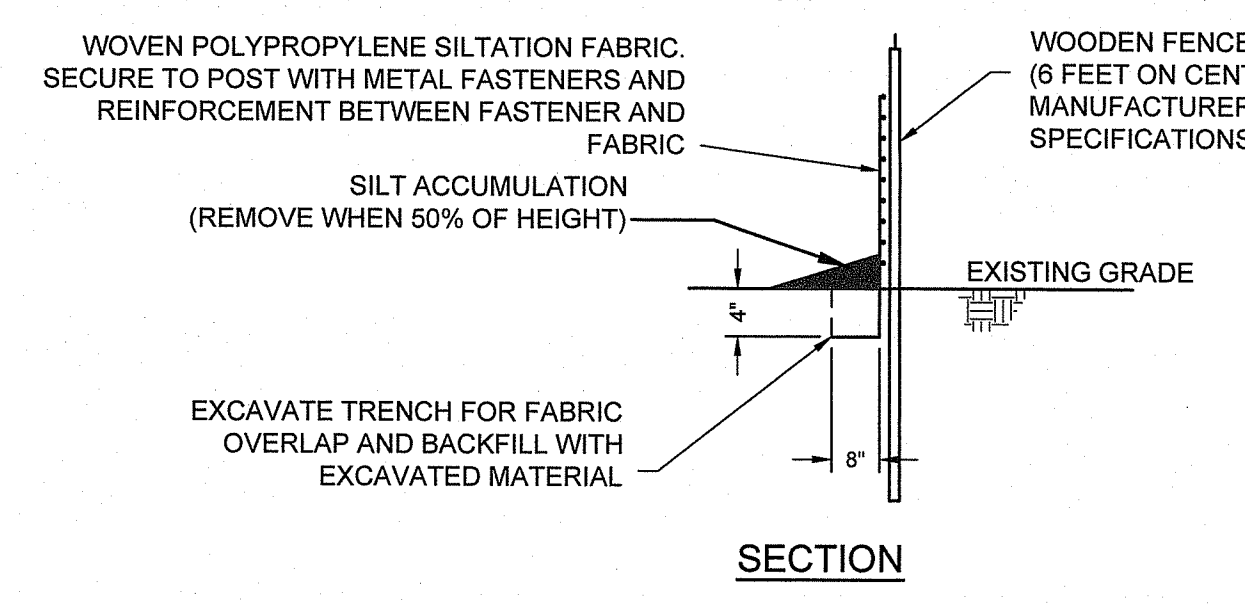
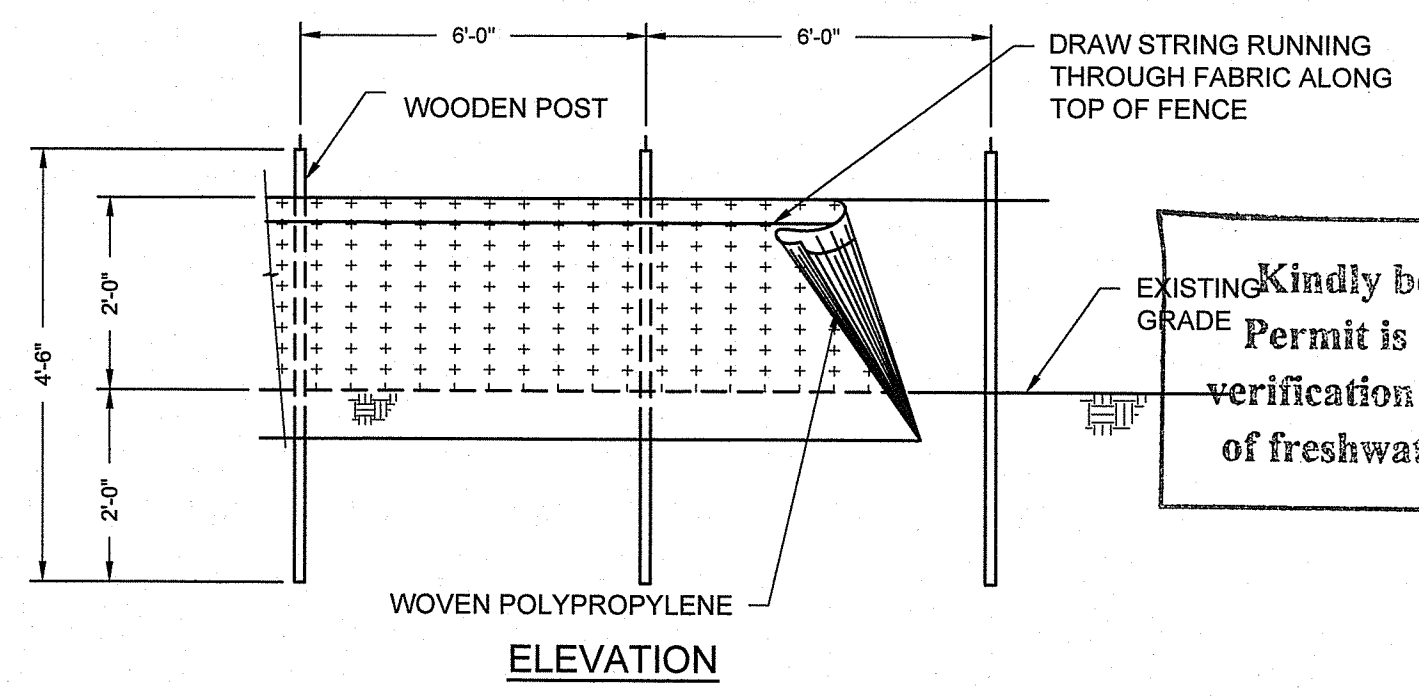
NOTES:
1. ACCESS ROAD TO BE CONSTRUCTED OF A MINIMUM 12" OF ANGULAR WASHED CRUSHED STONE FILL.
2. REMOVED ALL ORGANIC SOIL BELOW PROPOSED ACCESS ROAD AREAS.
3. ACCESS ROADS ARE ANTICIPATED TO BE UTILIZED FOR MAINTENANCE ACTIVITIES ONLY UPON COMPLETION OF CONSTRUCTION. RIDEM TECHNICAL JUSTIFICATION FOR CRUSHED STONE ROADWAY BASED ON VERY LIMITED USE.

ACCESS ROAD
NOT TO SCALE



NOTE:
1. TYPICAL FENCE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. DESIGN TO BE FINALIZED AT LATER DATE.

CHAIN LINK FENCE
NOT TO SCALE



NOTE:
SEE MANUFACTURER'S SPECIFICATION FOR REINFORCEMENT REQUIREMENTS.

SILT FENCE
NOT TO SCALE

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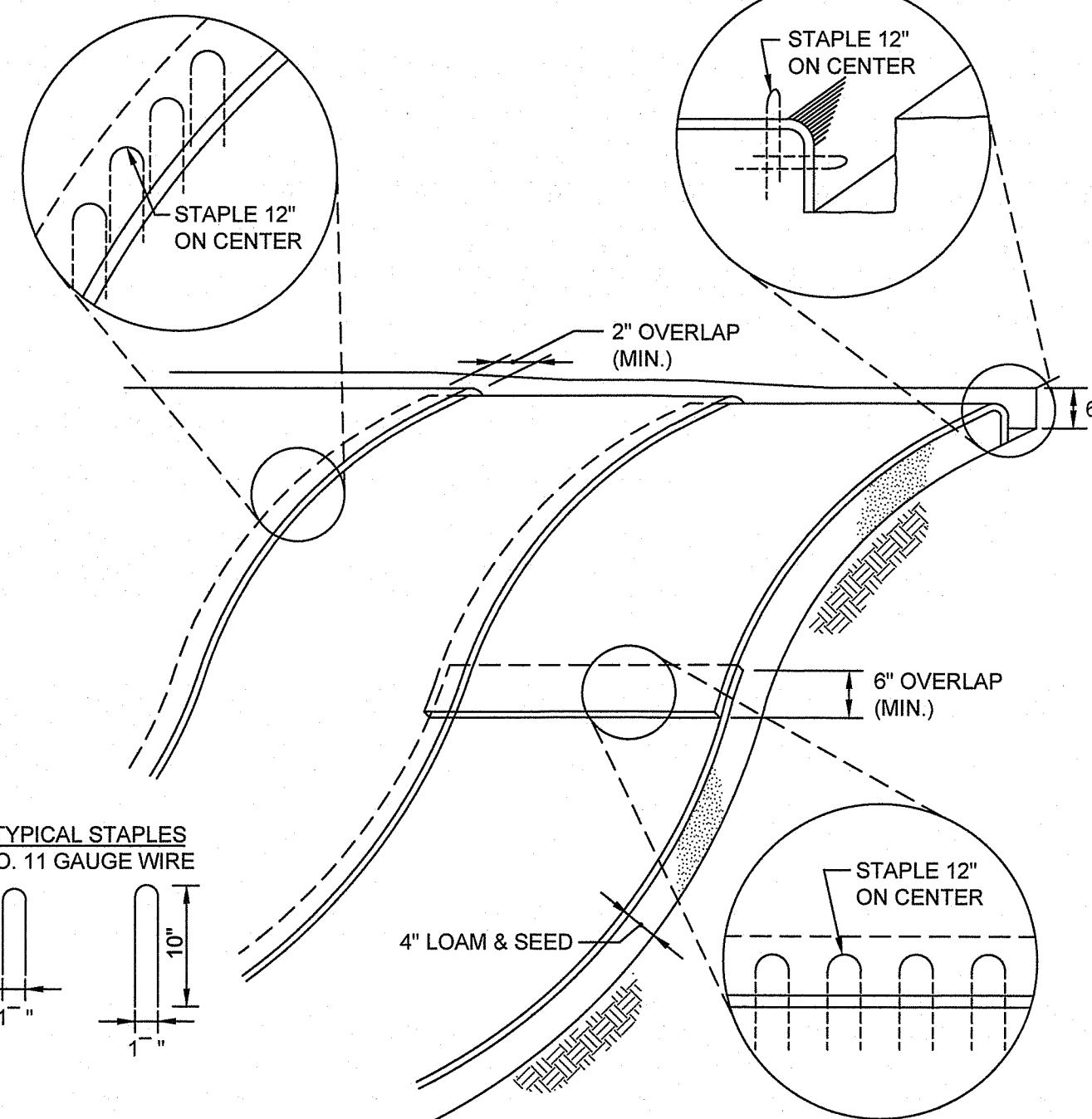
REVISION	DATE	ISSUE / REVISION DESCRIPTION	APPROVED
4	07/19/2021	REVISED PER RIDEM COMMENTS	APV
3	06/22/2021	STATE PERMIT APPLICATIONS	APV
2	06/27/2021	NO CHANGES THIS SHEET	APV
1	06/08/2021	DRAINAGE DESIGN REVISIONS	APV
0	02/22/2021	ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION	APV

PROJECT: 3.1 MW GROUND MOUNTED SOLAR DEVELOPMENT PARCEL 30-B WEST MAIN ROAD PORTSMOUTH, RHODE ISLAND
TITLE:

CLIENT: WEST MAIN ROAD SOLAR 2, LLC
48 WATERFIELD ROAD
PO BOX 808
WINCHESTER, MA 01890

SEAL: ANDREW P. VARDAKIS
No. 12219
REGISTERED PROFESSIONAL ENGINEER
1/10/2011

DESIGNED BY: CMR
CHECKED BY: GAA
PROJECT NUMBER: 3652200297
DRAWING NUMBER: C-502
SHEET NUMBER: 7 OF 8



NOTES:
1. BEGIN AT THE TOP OF MATTING INSTALLATION AREA BY ANCHORING MATTING IN A 6" DEEP TRENCH BACKFILL AND COMPACT TRENCH AFTER STAPLING.
2. ROLL THE MATTING DOWN THE SWALE IN THE DIRECTION OF THE WATER FLOW.
3. THE EDGES OF MATTINGS MUST BE STAPLED WITH A MINIMUM OF 4 INCH OVERLAP WHERE 2 OR MORE STRIP WIDTHS ARE REQUIRED.
4. WHEN MATTINGS MUST BE SPICED DOWN THE SWALE, PLACE MATTING END OVER END WITH 6 INCH (MIN) OVERLAP AND ANCHOR DOWN SLOPE MATTING IN A 6 INCH DEEP TRENCH.
5. EROSION CONTROL MATTING SHALL BE INSTALLED ON STEEP SLOPES (3:1 AND STEEPER AND SLOPES GREATER THAN 15% BENEATH THE ARRAY AREA) AND MANUFACTURED BY NORTH AMERICAN GREEN, EXCELSIOR, OR APPROVED EQUAL.

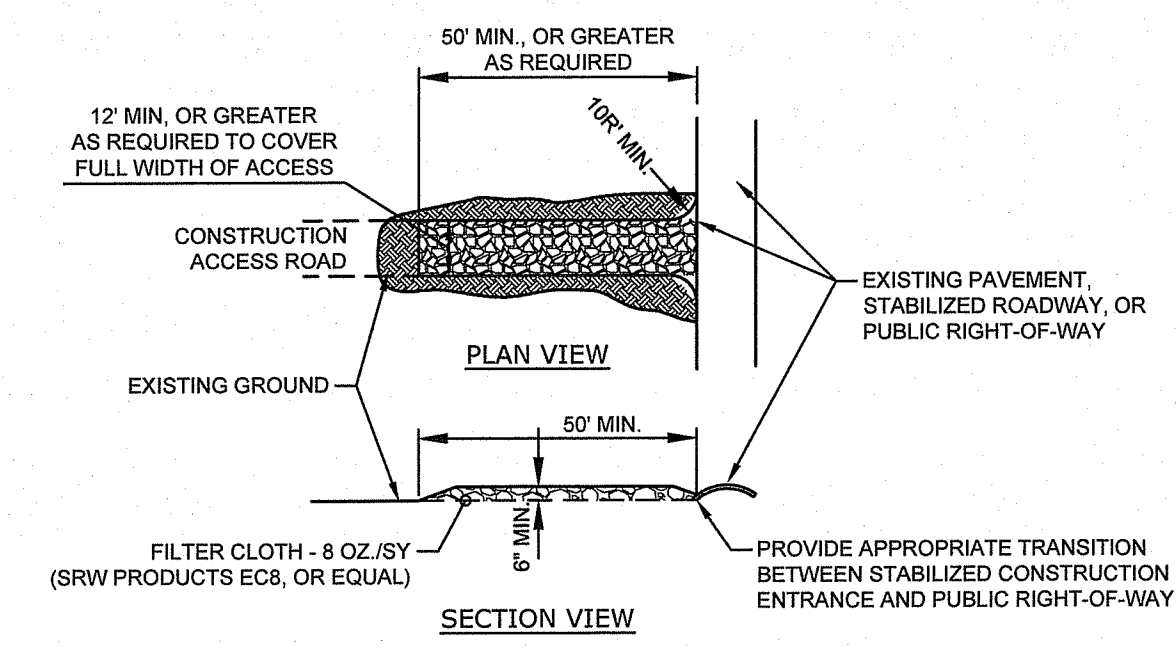
EROSION CONTROL MATTING SLOPE INSTALLATION
NOT TO SCALE

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Andy J. Freeman

Site Owner: West Main Solar 2, LLC
Twenty Four (24) Hour Emergency Contact
Phone Number: 401-692-2070
Solar Disconnect: Located On Customer Owned Disconnect At Site Entrance

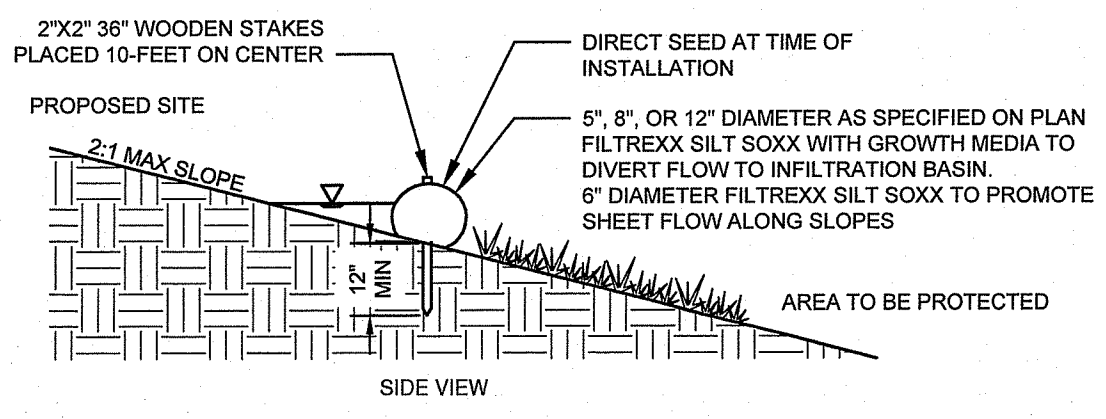
SIGN DETAIL
NOT TO SCALE

RI Environmental Management
JUL 22 2021
Office of Water Resources



NOTES:
1. STONE SIZE - TO BE 1"-3" STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FT.
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FT. MIN, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS OR BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SIDE 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. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - IF WASHING IS REQUIRED, IT SHALL BE DONE ON AN 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 EVENT.

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



DIRECT SEEDED PERMANENT GROWSOXX BERM
NOT TO SCALE

REVISED PER RIDGM COMMENTS	CMR	APV	APPROVED
STATE PERMIT APPLICATIONS	CMR	APV	ISSUED
NO CHANGES THIS SHEET	CMR	APV	ISSUED
DRAINAGE DESIGN REVISIONS	CMR	APV	ISSUED
ISSUED FOR PERMITTING/NOT FOR CONSTRUCTION	CMR	APV	ISSUED
DATE	07/19/2021	08/22/2021	08/27/2021
REVISION	4	3	2

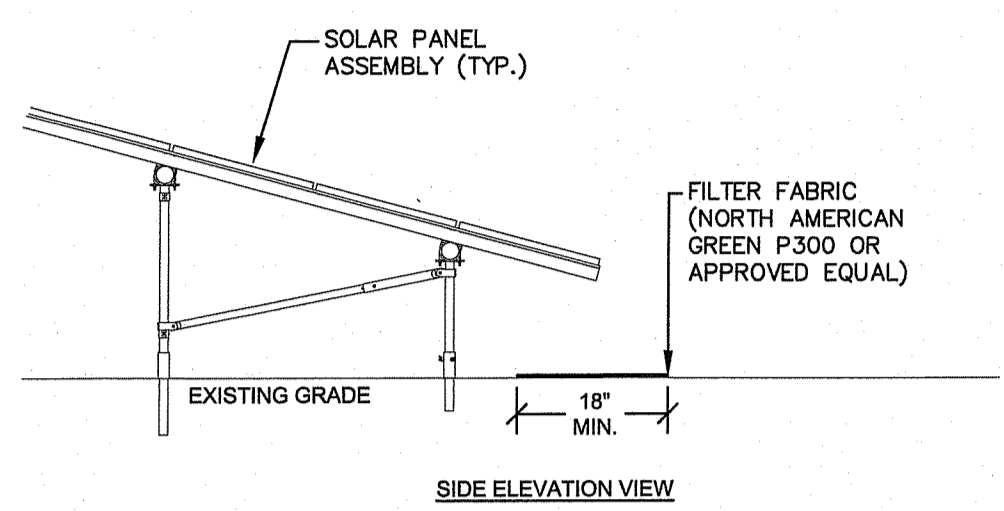
PROJECT: 3.1 MW GROUND MOUNTED SOLAR DEVELOPMENT PARCEL 30-8 WEST MAIN ROAD PORTSMOUTH, RHODE ISLAND

TITLE: DETAILS

CLIENT: WEST MAIN ROAD SOLAR 2, LLC 48 WATERFIELD ROAD PO BOX 808 WINCHESTER, MA 01890

SEAL: ANDREW P. VARDAKIS No. 12219 REGISTERED PROFESSIONAL ENGINEER 1/9/2011

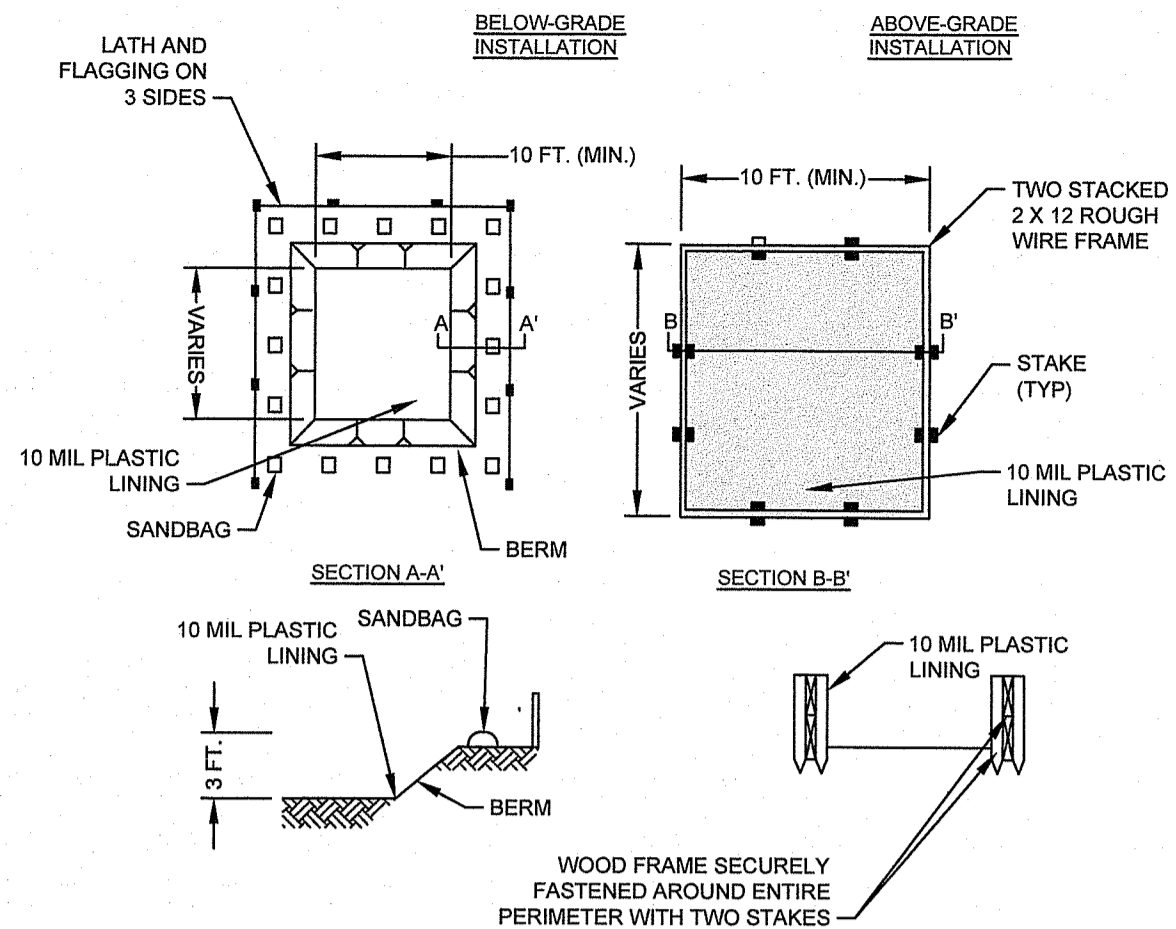
DESIGNED BY: CMR
CHECKED BY: GAA
PROJECT NUMBER: 3652200297
DRAWING NUMBER: C-503
SHEET NUMBER: 8 OF 8



NOTE:

- EROSION PROTECTION SHALL BE INSTALLED ALONG DRIP EDGE OF PANELS IN AREAS WHERE APPRECIABLE EROSION OR SCOUR IS OBSERVED.
- DESIGN FOR FOUNDATIONS, RACKING, AND MODULES BY OTHERS. DETAILS SHOWN FOR ILLUSTRATION PURPOSES ONLY.

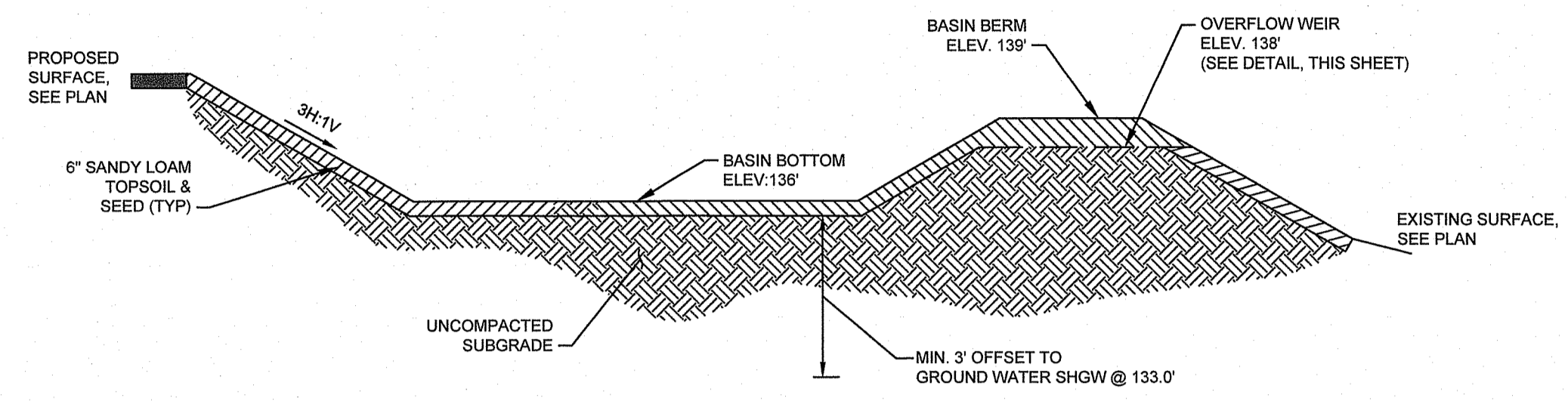
DRIP EDGE EROSION PROTECTION
NOT TO SCALE **9**



NOTES:

- ACTUAL LAYOUT DETERMINED IN THE FIELD.
- LOCATE A MIN. OF 50 FEET FROM STORM DRAINS, OPEN CHANNELS, WATER BODIES, AND JURISDICTIONAL WETLANDS.
- SOIL BASE SHALL BE PREPARED FREE OF ROCKS OR OTHER DEBRIS THAT COULD CAUSE A TEAR IN THE LINER.
- LOCATE WASHOUT AREA AT LEAST 50 FEET FROM SENSITIVE AREAS SUCH AS STORM DRAINS, OPEN DITCHES, OR WATER BODIES, INCLUDING ALL JURISDICTIONAL WETLANDS.

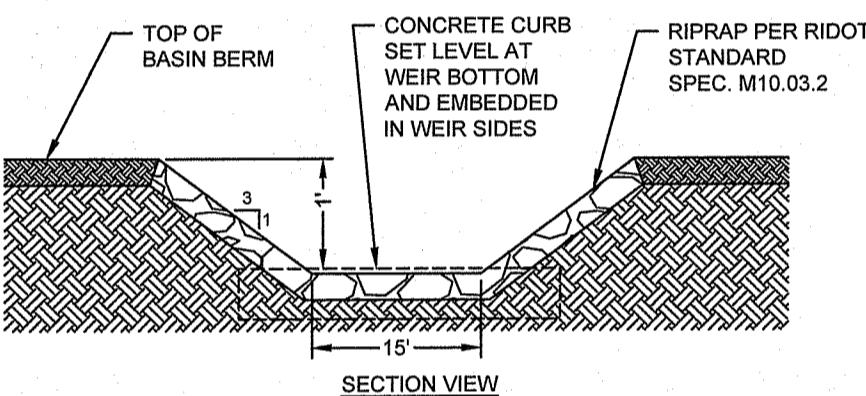
TEMPORARY CONCRETE WASHOUT FACILITY
NOT TO SCALE **10**



NOTES:

- CONTRACTOR SHALL EXCAVATE EXISTING SOIL WITHIN THE FOOTPRINT OF THE BASIN TO A DEPTH OF 36" BELOW EXISTING GROUND AND REPLACED WITH ASTM C33 SAND.
- SIDE SLOPES SHALL BE 3:1 MAX. SEE PLANS.

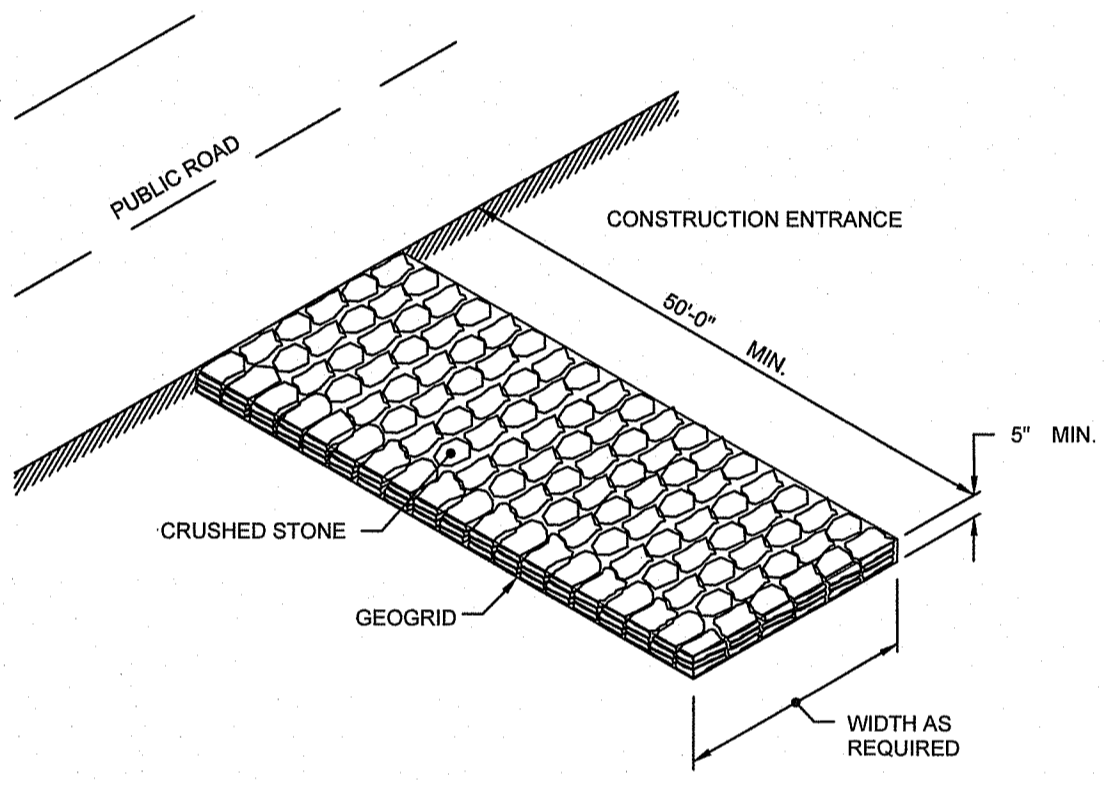
INFILTRATION BASIN CROSS-SECTION
NOT TO SCALE **11**



NOTES:

- RIPRAP TO BE INSTALLED WITHIN THE FULL WIDTH OF THE SPILLWAY AND THE FULL LENGTH OF THE BASIN BERM - FROM THE BASIN BOTTOM TO WHERE MATCHING EXISTING GRADE.
- SEE INFILTRATION BASIN DETAIL AND SAND FILTER DETAIL FOR ELEVATIONS.

OVERFLOW WEIR
NOT TO SCALE **12**

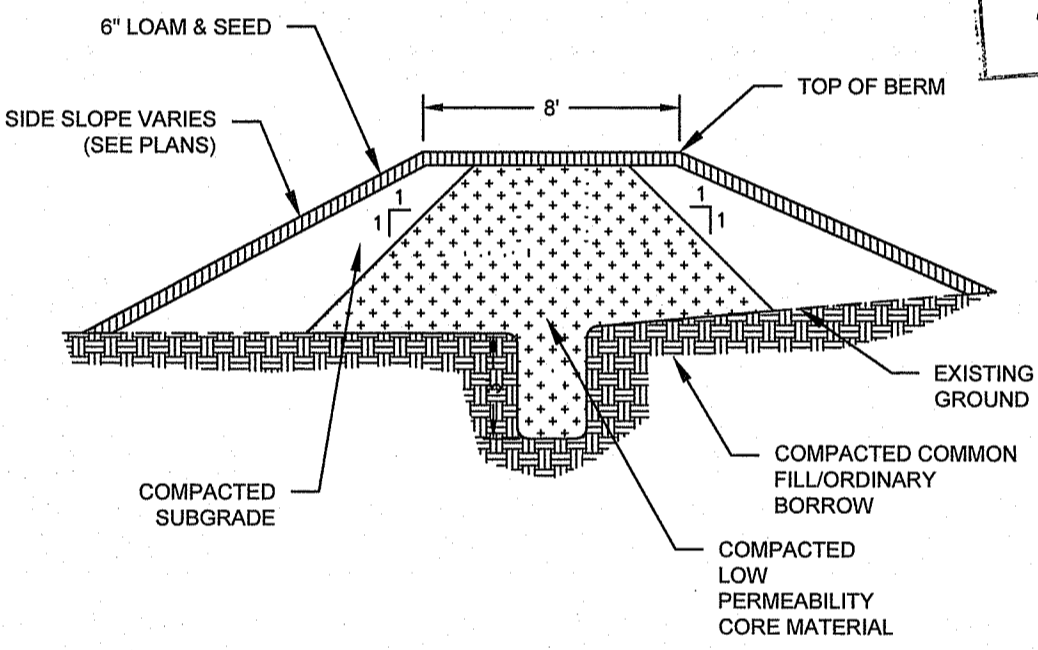


NOTE:

- SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

R.I. STANDARD 9.9.0

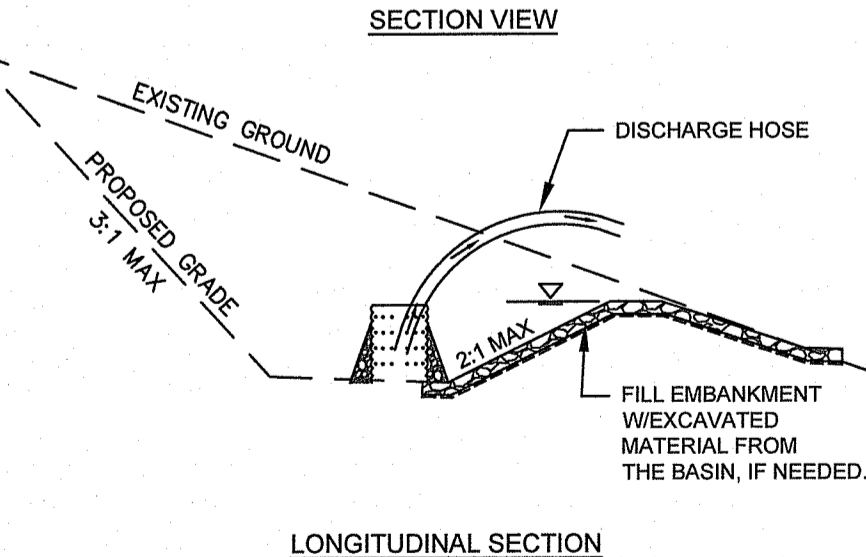
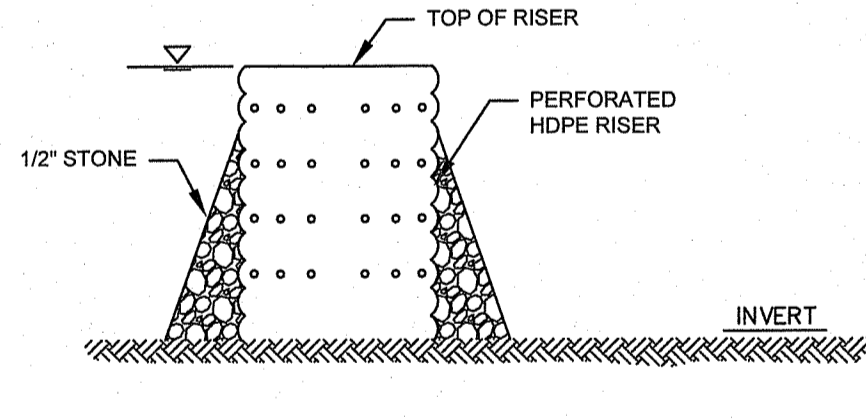
CONSTRUCTION ACCESS
NOT TO SCALE **13**



NOTES:

- LOW PERMEABILITY CORE MATERIAL IS CONTINUOUS FOR THE FULL LENGTH OF THE BERM.

BASIN BERM SECTION
NOT TO SCALE **14**



NOTES:

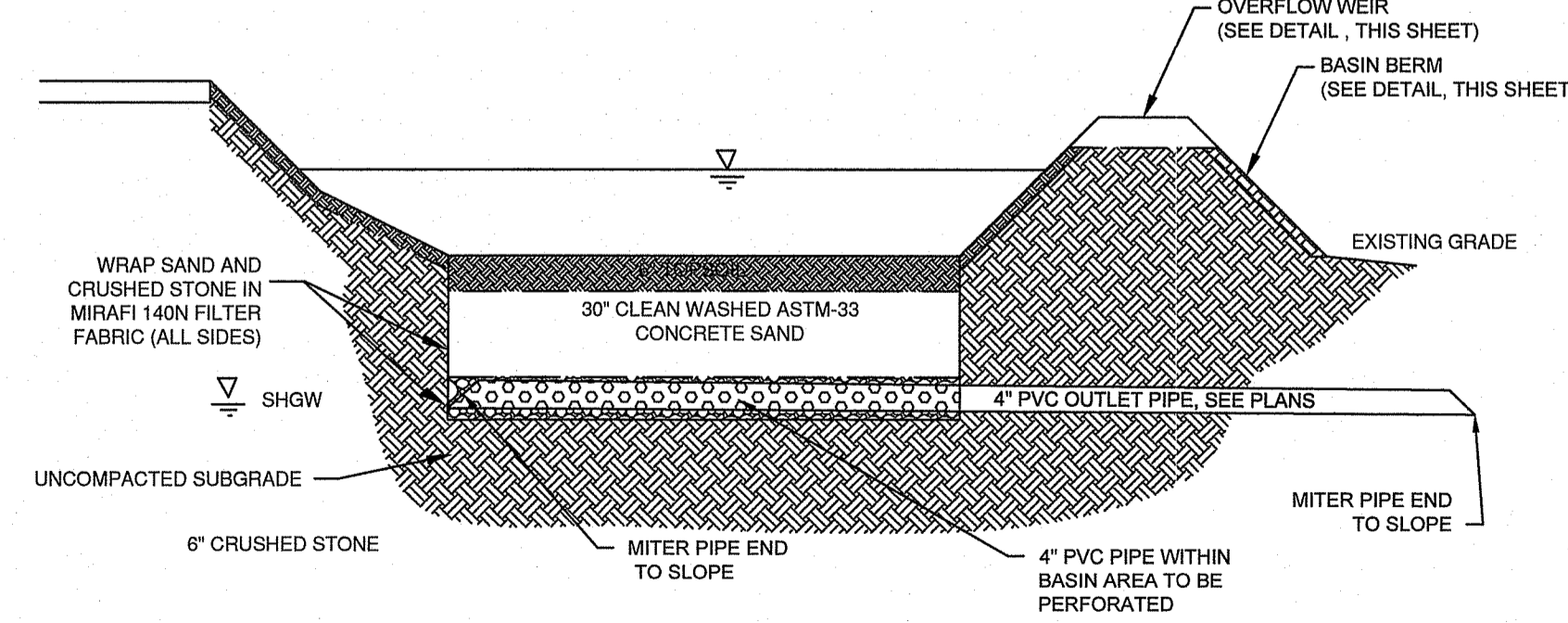
- TRAP CAPACITY: TEMPORARY SEDIMENT TRAP 134 CY/CONTRIBUTING ACRE AND 50% OF THIS VOLUME SHALL BE WET STORAGE.
- TOTAL MIN. STORAGE VOLUME = 1" X CONTRIBUTING AREA.
- SEDIMENT SHALL BE REMOVED WHEN THE BASIN IS 1/2 FULL AT A MINIMUM
- THE BASIN SHALL REMAIN IN PLACE UNTIL THE SITE HAS BEEN STABILIZED WITH BUILDINGS, PAVEMENT, OR ESTABLISHED VEGETATION, AS APPLICABLE.

TEMPORARY SEDIMENT TRAP
NOT TO SCALE **15**

TEMPORARY SEDIMENT TRAP SIZING

SEDIMENT TRAP ID	SEDIMENT TRAP 1	SEDIMENT TRAP 2	SEDIMENT TRAP 3
DRAINAGE AREA, SQ.FT.	202,809	118,406	150,539
DRAINAGE AREA, AC.	4.66	2.72	3.46
REQUIRED STORAGE VOLUME, CU.FT. (1-INCH OF DRAINAGE AREA)	16,901	9,867	12,545
PROPOSED TEMPORARY SEDIMENT TRAP BOTTOM AREA, SQ.FT.	5,410	4,430	3,880
PROPOSED TEMPORARY SEDIMENT TRAP TOP AREA, SQ.FT.	5,665	5,445	4,485
PROPOSED TEMPORARY SEDIMENT TRAP DEPTH, FT.	3	3	3
PROPOSED TEMPORARY SEDIMENT TRAP STORAGE VOLUME, CU.FT.	16,913	9,875	12,548

*MAX. ALLOWED DRAINAGE AREA TO A SEDIMENT TRAP IS 5 ACRES, PER RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK



NOTES:

- SEED BASIN BOTTOM WITH NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS & MOIST SITES BY NEW ENGLAND WETLAND PLANTS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
- SEED BASIN SIDE SLOPES WITH NEW ENGLAND CONSERVATION/WILDLIFE MIX BY NEW ENGLAND WETLAND PLANTS IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.

SAND FILTER
NOT TO SCALE **16**

SAND FILTER ELEVATIONS (FT)

SAND FILTER ID	BERM ELEVATION (FT)	SAND FILTER TOP ELEVATION (FT)	SAND FILTER BOTTOM ELEVATION (FT)	OVERFLOW WEIR ELEVATION (FT)	OVERFLOW WEIR WIDTH (FT)
SF1	130.0	125.0	128.0	128.0	15
SF2	127.0	122.0	125.0	128.0	15

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 19 2021 FILE # 21-0130
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman
Office of Water Resources
JUL 22 2021