

# EDRI CONVENTION CENTER PV ARRAY

PLAT 7, LOT 1 · RESERVOIR ROAD · GLOCESTER · RHODE ISLAND

## PERMITTING DOCUMENTS

JANUARY 19, 2022

REVISED: FEBRUARY 3, 2023

**APPLICANT/PROPERTY OWNER**  
**THE DIOCESE OF RHODE ISLAND**  
**D/B/A THE EPISCOPAL DIOCESE**  
**OF RHODE ISLAND**

872 RESERVOIR ROAD  
 GLOCESTER, RI 02859  
 (401) 568-4055

**DEVELOPER**  
**RER ENERGY GROUP**

4700 POTTSVILLE PIKE  
 READING, PA 19605  
 (610) 332-7232

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**PREPARED BY**



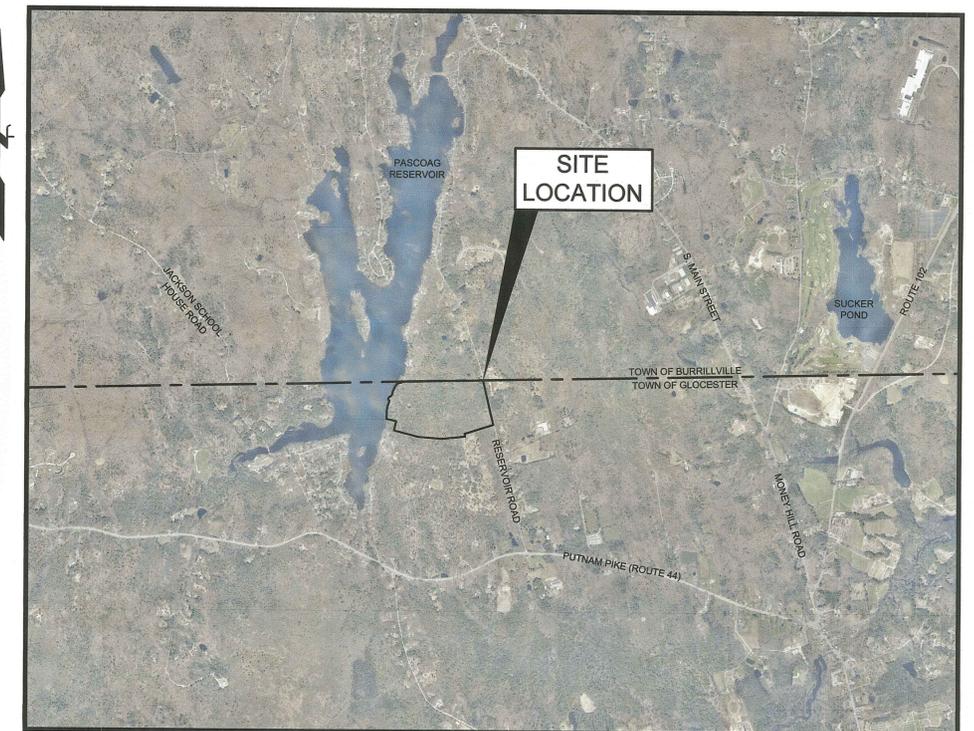
**FUSS & O'NEILL**

317 IRON HORSE WAY, SUITE 204  
 PROVIDENCE, RI 02908  
 401.861.3070  
 www.fando.com

**PROJECT TEAM**

NATIONAL LAND  
 SURVEYORS-DEVELOPERS, INC.  
 42 HAMLET AVE.  
 WOONSOCKET, RI 02895

NATURAL RESOURCE SERVICES  
 180 TINKHAM LANE, PO BOX 311  
 HARRISVILLE, RI 02830



**LOCATION MAP**

SCALE: 1" = 2000'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS  
 SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: AUG. 25, 2023 FILE #: 2023-005  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Signature of Shawn M. Martin*

RI Environmental Management  
 FEB 08 2023  
 Office of Water Resources



PROJ. No.: 20171012.A20  
 DATE: SEPTEMBER 27, 2022

**GI-001**

SHEET 1 OF 18

**PLAN FOR NOTICE**

| LEGEND |  | EXIST | PROP |
|--------|--|-------|------|
| ---    | PROPERTY LINE, RIGHT-OF-WAY CENTERLINE | ---   | ---  |
| ---    | LIMIT OF DISTURBANCE EASEMENT          | ---   | ---  |
| ---    | BUILDING SETBACK                       | ---   | ---  |
| ---    | STATE HIGHWAY BASELINE                 | ---   | ---  |
| ---    | ZONING LINE                            | ---   | ---  |
| ---    | EDGE OF WATER                          | ---   | ---  |
| ---    | WETLAND LINE                           | ---   | ---  |
| ---    | BUFFER ZONE                            | ---   | ---  |
| ---    | WETLAND SYMBOL                         | ---   | ---  |
| ---    | GRAVEL ROAD                            | ---   | ---  |
| ---    | EDGE OF PAVEMENT                       | ---   | ---  |
| ---    | BITUMINOUS CURB                        | ---   | ---  |
| ---    | CONCRETE CURB                          | ---   | ---  |
| ---    | PRECAST CONC. CURB                     | ---   | ---  |
| ---    | VERT. GRAN. CURB                       | ---   | ---  |
| ---    | LIMIT OF CURB TYPE                     | ---   | ---  |
| ---    | SAW CUT                                | ---   | ---  |
| ---    | MATCH LINE                             | ---   | ---  |
| ---    | SOLID WHITE LINE                       | ---   | ---  |
| ---    | SOLID YELLOW LINE                      | ---   | ---  |
| ---    | BROKEN WHITE LINE                      | ---   | ---  |
| ---    | BROKEN YELLOW LINE                     | ---   | ---  |
| ---    | SOLID WHITE CHANNELIZING LINE          | ---   | ---  |
| ---    | SOLID YELLOW CHANNELIZING LINE         | ---   | ---  |
| ---    | DOUBLE YELLOW LINE                     | ---   | ---  |
| ---    | STOP LINE                              | ---   | ---  |
| ---    | GUARD RAIL                             | ---   | ---  |
| ---    | STOCKADE FENCE                         | ---   | ---  |
| ---    | WIRE FENCE                             | ---   | ---  |
| ---    | CHAIN LINK FENCE                       | ---   | ---  |
| ---    | TREE LINE                              | ---   | ---  |
| ---    | SHRUB LINE                             | ---   | ---  |
| ---    | STONE WALL                             | ---   | ---  |
| ---    | RETAINING WALL                         | ---   | ---  |
| ---    | MINOR CONTOUR                          | ---   | ---  |
| ---    | MAJOR CONTOUR                          | ---   | ---  |
| ---    | TOP OF SLOPE                           | ---   | ---  |
| ---    | BOTTOM OF SLOPE                        | ---   | ---  |
| ---    | BUILDING                               | ---   | ---  |
| ---    | BOLLARD                                | ---   | ---  |
| ---    | SIGN                                   | ---   | ---  |
| ---    | DOUBLE SIGN                            | ---   | ---  |
| ---    | PARKING METER                          | ---   | ---  |
| ---    | PARKING COUNT                          | ---   | ---  |
| ---    | CROSSWALK                              | ---   | ---  |
| ---    | CONC. PAVEMENT                         | ---   | ---  |
| ---    | NORMAL PAVEMENT                        | ---   | ---  |
| ---    | HEAVY DUTY PAVEMENT                    | ---   | ---  |
| ---    | ADA OR ACCESSIBLE RAMP                 | ---   | ---  |
| ---    | HANDICAP PARKING                       | ---   | ---  |
| ---    | VAN-ACCESSIBLE HANDICAP PARKING        | ---   | ---  |
| ---    | TOP & BOTTOM ELEVATION                 | ---   | ---  |
| ---    | SPOT ELEVATION w/ LEADER               | ---   | ---  |
| ---    | SPOT ELEVATION                         | ---   | ---  |
| ---    | SOIL BORING                            | ---   | ---  |
| ---    | MONITORING WELL                        | ---   | ---  |
| ---    | TEST PIT LOCATION                      | ---   | ---  |
| ---    | IRON PIPE                              | ---   | ---  |
| ---    | DRILL HOLE                             | ---   | ---  |
| ---    | IRON PIN                               | ---   | ---  |
| ---    | MONUMENT                               | ---   | ---  |
| ---    | MAIL BOX                               | ---   | ---  |
| ---    | CONTROL POINT                          | ---   | ---  |

| ABBREVIATIONS  |                                   |
|----------------|-----------------------------------|
| GENERAL APPROX | APPROXIMATE BITUMINOUS PAVEMENT   |
| BIT            | BOTTOM OF WALL                    |
| BW             | CONCRETE CURB                     |
| CC             | CAPE CODE BERM                    |
| CCB            | CONCRETE CURB                     |
| ELEV           | ELEVATION                         |
| EXIST          | EXISTING                          |
| GR             | GRANITE CURB                      |
| MAX            | MAXIMUM                           |
| MIN            | MINIMUM                           |
| NTS            | NOT TO SCALE                      |
| PCC            | PRECAST CONCRETE CURB             |
| PROP           | PROPOSED                          |
| R&D            | REMOVE AND DISPOSE                |
| R&R            | REMOVE AND RESET                  |
| R&S            | REMOVE AND STACK                  |
| TOS            | TOP OF SLOPE                      |
| TW             | TOP OF WALL                       |
| TYP            | TYPICAL                           |
| VGC            | VERTICAL GRANITE CURB             |
| UTILITY CB     | CATCH BASIN                       |
| OMP            | CORRUGATED METAL PIPE             |
| CPP            | CORRUGATED POLYETHYLENE PIPE      |
| DCB            | DOUBLE CATCH BASIN                |
| DI             | DUCTILE IRON PIPE                 |
| F&G            | FRAME AND GRATE                   |
| F&C            | FRAME AND COVER                   |
| HOPE           | HIGH DENSITY POLYETHYLENE HYDRANT |
| HYD            | HYDRANT                           |
| INV            | INVERT ELEVATION                  |
| PVC            | POLYVINYL CHLORIDE PIPE           |
| RCP            | REINFORCED CONCRETE PIPE          |
| RD             | ROOF DRAIN                        |
| SMH            | SEWER MANHOLE                     |
| TSV            | TAPPING SLEEVE, VALVE AND BOX     |
| UP             | UTILITY POLE                      |

| No. | DATE      | DESCRIPTION                                     | DESIGNER | REVIEWER |
|-----|-----------|---|----------|----------|
| 7.  | 2/3/2023  | ISSUED FOR PUBLIC COMMENT                       | LAM      | AGG      |
| 6.  | 12/2/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE  | AGG/SMM  |
| 5.  | 10/3/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE  | AGG/SMM  |
| 4.  | 9/27/2022 | ISSUED FOR BUDGETARY PRICING                    | AFJ/GEE  | AGG/SMM  |
| 3.  | 6/13/2022 | RIDEM RESPONSE TO COMMENTS                      | AFJ/GEE/ | AGG/SMM  |
| 2.  | 5/4/2022  | ISSUED FOR RER COORDINATION                     | AFJ/GEE  | AGG/SMM  |
| 1.  | 1/19/2022 | ISSUED FOR RIDEM PERMITTING                     | AFJ/GEE  | AGG/SMM  |

### GENERAL NOTES

1. REFERENCES:  
 A. THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2018 EDITION, REVISIONS AND ALL CURRENT ADDENDA, ARE MADE A PART HEREOF, AS IF ATTACHED HERETO. ALL REFERENCES TO "STATE STANDARD SPECIFICATIONS" SHALL REFER TO THE LATEST EDITION OF THE STATE OF RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.  
 B. THE STATE OF RHODE ISLAND STANDARD DETAILS, 2015 EDITION, AND ALL CURRENT REVISIONS, ARE MADE A PART HEREOF, AS IF ATTACHED HERETO. ALL REFERENCES TO "STATE STANDARD DETAILS" SHALL REFER TO THE LATEST EDITION OF THE STATE OF RHODE ISLANDS STANDARD DETAILS.  
 C. THE STATE OF RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, 2016 EDITION, REVISIONS AND ALL CURRENT ADDENDA, ARE MADE A PART HEREOF, AS IF ATTACHED HERETO. ALL REFERENCES TO "SOIL EROSION AND SEDIMENT CONTROL HANDBOOK" SHALL REFER TO THE LATEST EDITION OF THE STATE OF RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.

2. EXISTING CONDITIONS:  
 A. SURVEY: PROPERTY BOUNDARY AND TOPOGRAPHICAL INFORMATION WERE OBTAINED FROM A PLAN TITLED EXISTING CONDITIONS PLAN, BY NORBERT A. THERIEN PROFESSIONAL LAND SURVEYOR AND NATIONAL SURVEYORS-DEVELOPERS INC, DATED JUNE 2021.  
 B. FLOOD ZONE: THE SUBJECT SITE LIES WITHIN ZONE X, AN AREA OF MINIMAL FLOOD HAZARD, FROM 1-PERCENT ANNUAL-CHANCE FLOOD EVENT, PER FLOOD INSURANCE RATE MAP (FIRM) PROVIDENCE COUNTY PANEL NO. 4400700100G, REVISED FEBRUARY 2, 2009.  
 C. UTILITIES: THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE ONLY AND HAVE NOT YET BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE.

3. MATERIAL:  
 A. BITUMINOUS CONCRETE PAVEMENT: BITUMINOUS PAVEMENTS SHALL MEET REQUIREMENTS OF PART 400 OF THE STATE STANDARD SPECIFICATIONS.  
 B. LANDSCAPE AREAS: ALL SURFACED AREAS OR DISTURBED AREAS NOT SPECIFIED ON THE PLANS SHALL RECEIVE 4 INCHES OF TOPSOIL, SEED, MULCH, AND BE WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

4. UTILITIES:  
 A. STORM DRAINAGE: STORM DRAIN PIPING SHALL BE SMOOTH LINED BE DOUBLE-WALL HIGH DENSITY POLYETHYLENE PIPE, (n=0.012) WITH WATER TIGHT JOINTS. THE SIZES OF ALL PIPES ARE NOTED ON THE PLANS.  
 PIPES BETWEEN OUTFALLS AND THE NEAREST UP STREAM STRUCTURE SHALL BE REINFORCED CONCRETE PIPE WITH PRECAST CONCRETE FLARED END SECTIONS (R.I. STD. 2.3.0).  
 ALL CATCH BASINS SHALL BE PRECAST CONCRETE, AS SPECIFIED ON THE DETAIL SHEETS, WITH BICYCLE SAFE GRATES, R.I. STANDARD 6.3.2, OR APPROVED EQUAL.

### GENERAL CONSTRUCTION REQUIREMENTS

1. DISCHARGES FROM CONSTRUCTION SITE ARE REGULATED BY THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT RHODE ISLAND POLLUTANT DISCHARGE SYSTEM ELIMINATION (RIDESP) PROGRAM. THE PROJECT SHALL COMPLY WITH THE CONDITIONS OF THE RIDESP GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SITE RUNOFF, AND THE CITY OF PROVIDENCE CODE OF ORDINANCES, CHAPTER V ARTICLE VII "SOIL EROSION AND SEDIMENT CONTROL".

2. THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. THE CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER IN WRITING OF ANY ERRORS, OMISSIONS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, INSPECTIONS, BONDS, ETC. AND OTHER APPROVAL RELATED ITEMS WITH THE LOCAL AND STATE MUNICIPALITIES. APPLICATION FEES SHALL BE PAID BY OWNER. NO CONSTRUCTION SHALL COMMENCE UNTIL SUCH PERMITS HAVE BEEN SECURED AND THE CONTRACTOR HAS SUPPLIED THE REQUIRED NOTICES.

4. METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS AND SPECIFICATIONS OF THE LOCAL MUNICIPALITY AND THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.

5. DEVIATIONS OR CHANGES FROM THESE PLANS WILL NOT BE ALLOWED UNLESS APPROVED BY THE ENGINEER/OWNER.

6. THE CONTRACTOR SHALL CONTACT "DIG SAFE" AT 1-888-344-7233, 72 HOURS PRIOR, EXCLUDING WEEKENDS AND HOLIDAYS, TO ANY EXCAVATION PERFORMED ON SITE.

7. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE ANY EXISTING UTILITIES AND NOTIFY OWNER/ENGINEER OF ANY DISCREPANCIES FROM CONTRACT DOCUMENTS. THE OWNER SHALL BE NOTIFIED AS TO THE RELATIONS REQUIRED PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING, AT HIS/HER EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.

8. AN APPROVED SET OF PLANS, SIGNED SOIL EROSION AND SEDIMENT CONTROL PLAN (AKA STORMWATER POLLUTION PREVENTION PLAN), AND ALL APPLICABLE PERMITS MUST BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES.

9. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

10. CONTRACTOR SHALL IDENTIFY TREES TO BE REMOVED PRIOR TO CONSTRUCTION AND MARK THEM WITH CONSTRUCTION TAPE FOR REVIEW BY THE OWNER/ENGINEER. TREES AND OTHER EXISTING VEGETATION SHALL BE RETAINED WHEREVER FEASIBLE. CONTRACTOR SHALL NOT REMOVE TREES UNTIL REVIEWED AND APPROVED BY THE OWNER/ENGINEER.

11. PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED SITE IMPROVEMENTS.

12. THE CONTRACTOR SHALL RESTORE HARDSCAPE IMPROVEMENTS WITH MATCHING MATERIALS (I.E. ANY PAVEMENT, WALKS, CURBS, ETC.) THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.

13. THE CONTRACTOR SHALL RESTORE DISTURBED LANDSCAPE AREAS TO ORIGINAL CONDITION (I.E. SEEDED, SODDED, PLANTED) UNLESS OTHERWISE DIRECTED WITHIN CONTRACT DOCUMENTS.

14. ADJUST UTILITY COVERS, GRATES, AND HAND HOLES TO FINISH GRADE.

15. ALL EXCESS EXCAVATED MATERIALS, EXCESS FILL, EXCESS CONSTRUCTION MATERIALS, DEBRIS, AND WASTE SHALL BE REMOVED FROM THE SITE AND SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS.

16. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.

17. WORK IS RESTRICTED TO THE HOURS OF 7 AM TO 5 PM ON MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS, UNLESS OTHERWISE APPROVED BY THE OWNER.

### CONSTRUCTION SEQUENCE

CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT ARE EXPECTED TO COMMENCE IN 2022 AND WILL BE COMPLETED BY 2023. THE GENERAL SEQUENCE FOR EACH PHASE OF CONSTRUCTION IS AS FOLLOWS:

- INSTALL PERIMETER SEDIMENT CONTROL BARRIERS, EROSION CONTROL AND PROPOSED CONSTRUCTION ACCESS. EROSION CONTROL MEASURES WILL BE MAINTAINED OR REPLACED AS REQUIRED THROUGHOUT CONSTRUCTION PERIOD. ANY TEMPORARY SOIL STOCKPILE AREAS DURING CONSTRUCTION WILL ALSO BE ENCOMPASSED BY PERIMETER CONTROLS.
- CLEAR THE SITE AND REMOVE DEMOLISHED MATERIALS. PERFORM SELECTIVE CLEARING WHERE INDICATED.
- CONDUCT ROUGH GRADING AND STOCKPILE EXCESS SOILS FOR REMOVAL OR REUSE. INSTALL TEMPORARY STABILIZATION MEASURES AS REQUIRED.
- CONSTRUCT STONE ACCESS DRIVE, AND INSTALL UTILITIES, POLES, AND EQUIPMENT PADS.
- INSTALL PERIMETER FENCING, SOLAR RACKING SYSTEM, GATES, MONITORING WELLS, SOLAR ARRAY TABLES, ETC.
- TOPSOIL AND PERMANENTLY SEED DISTURBED AREAS.
- REMOVE TEMPORARY EROSION CONTROLS MEASURES ONCE PERMANENT VEGETATION COVER HAS BEEN ESTABLISHED AND THE SITE IS STABILIZED, INSPECTED, AND APPROVED BY PERMITTING AUTHORITY AND THE ENGINEER.

### PV ARRAY NOTES

- SCOPE OF WORK:  
 THE PROJECT ENTAILS THE INSTALLATION OF 1.36 MW DC RATED PHOTOVOLTAIC SYSTEMS, WARREN, RI.  
 THIS PHOTOVOLTAIC SYSTEM WILL FUNCTION WITH PHOTOVOLTAIC MODULES (SOURCE CIRCUITS) INSTALLED ON A GROUND MOUNTED FIXED AXIS SYSTEM AT THE SPECIFIED PROJECT LOCATION.  
 PHOTOVOLTAIC DIRECT CURRENT POWER WILL BE INVERTED TO AC POWER BY THE SPECIFIED UL APPROVED INVERTER. SEE ELECTRICAL PAGES AND INVERTER SPECIFICATION SHEETS.
- INTERCONNECTION:  
 THIS PHOTOVOLTAIC SYSTEM WILL CONNECT WITH THE EXISTING ELECTRICAL SYSTEM AT ONE LOCATION SPECIFIED AS THE POINT OF COMMON COUPLING (PCCC).  
 THIS SYSTEM IS INTENDED TO BE OPERATED IN PARALLEL WITH THE UTILITY SERVICE PROVIDER. ANTI-ISLANDING PROTECTION IS A REQUIREMENT OF UL 1741 AND IS INTENDED TO PREVENT THE OPERATION OF THE PV SYSTEM WHEN THE UTILITY GRID IS NOT OPERATIONAL.  
 IN ORDER TO INTERCONNECT THE PHOTOVOLTAIC SYSTEM, A POWER OUTAGE AND CLEARANCE OF FACILITY EQUIPMENT MAY BE REQUIRED. THIS SHALL BE COORDINATED WITH THE FACILITY AND UTILITY SERVICE PROVIDER.  
 PERMISSION TO OPERATE THE SYSTEM IS NOT AUTHORIZED UNTIL FINAL INSPECTIONS AND APPROVALS ARE OBTAINED FROM THE LOCAL AUTHORITY HAVING JURISDICTION AND THE LOCAL UTILITY SERVICE PROVIDER.
- APPLICABLE CODES:  
 INTERNATIONAL BUILDING CODE (IBC), 2015 EDITION, WITH RHODE ISLAND AMENDMENTS  
 NATIONAL ELECTRIC CODE (NATIONAL FIRE PREVENTION ASSOCIATION) NFPA-70 (2017 EDITION), WITH RHODE ISLAND AMENDMENTS
- U.L. LISTINGS:  
 PHOTOVOLTAIC MODULES ARE U.L. LISTED FOR THEIR PURPOSE. ALL OF THE ELECTRICAL EQUIPMENT USED IN THIS SOLAR ELECTRIC SYSTEM SHALL BE U.L. LISTED AND IN OUTDOOR AREAS ENCLOSURES AND CABINETS WILL MEET APPROPRIATE NEMA STANDARDS.  
 ELECTRICAL COMPONENTS AND MATERIALS SUCH AS MODULES, INVERTERS, COMBINER BOXES, DISCONNECTS, CONDUIT, WIRING, ETC. SHALL BE LISTED FOR ITS PURPOSE AND INSTALLED IN A WORKMANLIKE MANNER.
- ATTACHMENT:  
 SOLAR MODULES WILL BE SUPPORTED BY A FIXED STRUCTURE.  
 THE FIXED STRUCTURE SHALL MEET DEAD LOAD, WIND LOAD, AND SEISMIC STANDARDS.  
 STRUCTURAL STABILITY AND THE MEANS OF ATTACHMENT WILL BE CERTIFIED BY A LICENSED ENGINEER. SEE STRUCTURAL PAGES, AND ATTACHMENTS IF PROVIDED, FOR MORE DETAILS.  
 ALL FASTENERS ARE TO BE STAINLESS STEEL UNLESS OTHERWISE NOTED. CONNECTORS SHALL BE TORQUED PER DEVICE LISTING OR ENGINEERING RECOMMENDATIONS. HEX OR SQUARE DRIVE SOCKET HEAD SCREWS ARE RECOMMENDED.
- INSTALLATION:  
 ALL ELECTRICAL WORK TO BE INSTALLED BY A QUALIFIED LICENSED ELECTRICIAN AND APPRENTICES WORKING UNDER THE DIRECT SUPERVISION OF THE LICENSED CONTRACTOR.  
 ALL FABRICATION AND MANUFACTURING SHALL BE PERFORMED BY CERTIFIED INDIVIDUALS IN APPROVED ASSEMBLY AND FABRICATION SHOPS.  
 PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED AMONG SITE CONDITIONS, MANUFACTURER RECOMMENDATIONS, OR AUTHORITY HAVING JURISDICTION.  
 CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER IN THE FORM OF A "RFI", REQUEST FOR INFORMATION, PRIOR TO MAKING ANY CHANGES. APPROVED CHANGES SHALL REQUIRE A DRAWING REVISION TO MAINTAIN CONTROL OVER THE ENGINEER APPROVED DESIGN.  
 THE ELECTRICAL CONTRACTOR IS ADVISED THAT ALL DRAWINGS AND COMPONENT MANUALS ARE TO BE UNDERSTOOD PRIOR TO INSTALLATION. THE CONTRACTOR IS ADVISED TO HAVE ALL SWITCHES IN THE "OFF" POSITION AND FUSES REMOVED PRIOR TO INSTALLATION OF FUSE-BEARING COMPONENTS.

### SOIL EROSION AND SEDIMENT CONTROL INSTALLATION

- THE CONTRACTOR SHALL FOLLOW THE SITE-SPECIFIC SESC PLAN, SITE PREPARATION PLAN, EROSION AND SEDIMENT CONTROL SPECIFICATION, AS WELL AS RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK IN CONSTRUCTING THE EROSION AND SEDIMENT CONTROLS INDICATED ON THE PLANS. ALL EROSION AND SEDIMENT CONTROL MEASURES OR WORKS AND REHABILITATION MEASURES MUST CONFORM TO OR EXCEED THESE REQUIREMENTS.
- THE TIMELY INSTALLATION, INSPECTION, AND MAINTENANCE/REPLACEMENT OF SEDIMENT AND EROSION CONTROL DEVICES TO ENSURE PROPER OPERATION AND PERMIT COMPLIANCE IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL CONSTRUCTION OF THE PROJECT IS COMPLETE AND ACCEPTED BY THE OWNER. THE OWNER IS RESPONSIBLE THEREAFTER. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONTINUE TO BE MAINTAINED IN EFFECTIVE CONDITION UNTIL SITE STABILIZATION.
- PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN, OR AS DIRECTED BY THE RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND LOCAL MUNICIPALITY, OR AS MAY BE REQUIRED TO PREVENT SEDIMENT FLOW TO STORM DRAINS OR SURFACE WATERS.

### SOIL EROSION AND SEDIMENT CONTROL INSPECTION

- A SITE-SPECIFIC SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC PLAN) HAS BEEN PREPARED. THE SESC PLAN MUST BE REVIEWED AND SIGNED BY THE OWNER, OPERATOR (I.E. CONTRACTOR), AND CONTRACTOR'S DESIGNATED SESC INSPECTOR. A HARD-COPY OF THE SIGNED SESC PLAN, INCLUDING ALL INSPECTION REPORTS, CORRECTIVE ACTION LOGS, AND ADDENDA, MUST BE KEPT ON SITE AT ALL TIMES THROUGHOUT CONSTRUCTION.
- AN INSPECTION OF STORMWATER CONTROL MEASURES MUST BE CONDUCTED BY THE CONTRACTOR AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, AND WITHIN TWENTY-FOUR (24) HOURS AFTER ANY STORM EVENT WHICH GENERATES AT LEAST 0.25 INCHES OF RAINFALL PER TWENTY-FOUR (24) HOUR PERIOD.
- THE CONTRACTOR SHALL PREPARE AN INSPECTION REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND TITLES OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SESC PLAN, AND CORRECTIVE ACTIONS WHICH MUST BE MADE. SUCH REPORTS MUST IDENTIFY ANY INCIDENTS OF NONCOMPLIANCE. WHERE AN INSPECTION DOES NOT IDENTIFY ANY INCIDENTS OF NONCOMPLIANCE, AN INSPECTION REPORT MUST STILL BE PREPARED TO CERTIFY THAT THE SITE IS IN COMPLIANCE WITH THE SESC PLAN AND RIDES PERMIT. THE INSPECTION REPORT MUST BE SIGNED BY THE INSPECTOR AND OPERATOR AND KEPT WITH THE ON-SITE SESC PLAN.
- FOLLOWING AN INSPECTION, ALL CORRECTIVE ACTIONS MUST BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS. A CORRECTIVE ACTION LOG MUST BE SIGNED BY THE OPERATOR AND KEPT WITH THE ON-SITE SESC PLAN.
- BASED ON THE RESULTS OF THE INSPECTIONS, THE SESC PLAN MUST BE REVISED AS APPROPRIATE, BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION. SUCH MODIFICATIONS MUST PROVIDE FOR IMPLEMENTATION OF ANY CHANGES TO THE SESC PLAN WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION.
- IF AN INSPECTION REVEALS A DISCHARGE OF SEDIMENTS TO THE WATERS OF THE STATE OR A SEPARATE STORM SEWER SYSTEM, THE PERMITTEE MUST NOTIFY THIS OFFICE OF THE NATURE OF THE DISCHARGE, THE MEASURES TAKEN TO CLEAN UP THE DISCHARGE, AND THE MEASURES TAKEN TO PREVENT FUTURE RELEASES.
- A HARD COPY OF THE COMPLETE SESC PLAN, INCLUDING ALL INSPECTION REPORTS, CORRECTIVE ACTION LOGS, AND ADDENDA, MUST BE RETAINED BY THE OWNER FOR AT LEAST FIVE (5) YEARS FROM THE DATE THAT THE SITE HAS UNDERGONE FINAL STABILIZATION.

### SPILL PREVENTION AND RESPONSE PROCEDURE

- ANY UNEXPECTED OR DELIBERATE DISCHARGE OF WASTE OIL OR ANY OTHER POLLUTANT TO THE STORMWATER DISPOSAL SYSTEM (I.E. INFILTRATION BEST MANAGEMENT PRACTICES, OR CLOSED-CONDUIT DRAINAGE SYSTEM THAT DISCHARGES TO MUNICIPAL SEPARATE STORM SEWER SYSTEM OR WATER BODY) REQUIRES IMMEDIATE NOTIFICATION TO THE RIDEM OIL POLLUTION CONTROL PROGRAM AT (401) 277-2284, AS PER THE OIL POLLUTION CONTROL REGULATIONS. DURING NON-WORKING HOURS, NOTIFICATION OF SPILLS CAN BE MADE TO THE RIDEM DIVISION OF ENFORCEMENT AT (401) 222-3070 (THE 24-HOUR EMERGENCY RESPONSE PHONE NUMBER).
- ANY INCIDENT OF GROUNDWATER CONTAMINATION RESULTING FROM THE IMPROPER DISCHARGE OF POLLUTANTS TO THE STORMWATER DISPOSAL SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AS WELL AS ANY OTHER PARTIES THAT THE RIDEM DETERMINES TO BE RESPONSIBLE FOR THE CONTAMINATION. PURSUANT TO STATE LAWS AND REGULATIONS, THE RIDEM MAY REQUIRE THE PROPERTY OWNER, CONTRACTOR, AND OTHER RESPONSIBLE PARTIES TO REMEDIATE ANY INCIDENTS THAT MAY ADVERSELY IMPACT GROUNDWATER QUALITY.
- UPON TRANSFER OF THE PROPERTY, THE NEW OWNER SHALL BE INFORMED AS TO THE LEGAL RESPONSIBILITIES ASSOCIATED WITH DISPOSAL SYSTEM, AS INDICATED ABOVE.

### STORMWATER MAINTENANCE PROGRAM

OPERATION AND MAINTENANCE OF STORMWATER MANAGEMENT SYSTEM SHALL BE CONDUCTED IN ACCORDANCE WITH SITE-SPECIFIC LONG-TERM OPERATION & MAINTENANCE PLAN.

### ZONING DEVELOPMENT NOTES

- AREAS LISTED WERE FOR EACH INDIVIDUAL SURFACE TYPE AND MAY INCLUDE OTHER UNDERLYING LAND DESCRIPTIONS (E.G., FRESHWATER WETLAND/PERIMETER WETLANDS MAY INCLUDE AREAS OF STEEP SLOPES). TOTAL AREA UNSUITABLE FOR DEVELOPMENT MAY INCLUDE OVERLAPPING SITE CONSTRAINTS.
- ALL STRUCTURES ON THE LOT SHALL NOT EXCEED A MAXIMUM LOT COVERAGE OF 20% OF THE LAND SUITABLE FOR DEVELOPMENT OF THE LOT. REF. GLOUCESTER ZONING ORDINANCE 350-46.H(3).
- NO MORE THAN 40% OF ANY FORESTED AREAS SHALL BE CLEARED FOR THE PURPOSE OF INSTALLING SOLAR INSTALLATIONS. REF. GLOUCESTER ZONING ORDINANCE 350-46.H(4).

| LAND UNSUITABLE FOR DEVELOPMENT       |              |            |
|---------------------------------------|--------------|------------|
| LAND DESCRIPTION (1)                  | AREA (ACRES) | PERCENTAGE |
| TOTAL AREA                            | 69.7         | 100.0%     |
| FRESHWATER WETLAND                    | 33.2         | 47.6%      |
| PERIMETER WETLANDS                    | 7.2          | 10.3%      |
| EXISTING FORESTED AREA                | 69.1         | 99.1%      |
| EASEMENTS                             | 22.0         | 31.6%      |
| DEED RESTRICTIONS                     | 7.6          | 10.9%      |
| HISTORIC CEMETERIES                   | 0.0          | 0.0%       |
| STEEP SLOPES                          | 8.5          | 12.2%      |
| FLOOD HAZARD ZONE                     | 0.0          | 0.0%       |
| TOTAL AREA UNSUITABLE FOR DEVELOPMENT | 50.1         | 71.9%      |

| LAND SUITABLE FOR DEVELOPMENT                                  |              |            |
|--|--------------|------------|
| LAND DESCRIPTION (1)   | AREA (ACRES) | PERCENTAGE |
| TOTAL AREA SUITABLE FOR DEVELOPMENT                            | 19.6         | 28.1%      |
| TOTAL COVERAGE (% OF SUITABLE AREA)                            | 3.5          | 17.8%      |
| FORESTED LAND CLEARING FOR ARRAY (% OF EXISTING FORESTED AREA) | 19.1         | 27.6%      |

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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 DATED: AUG 25 2023 FILE # 22-0251  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
*Martin A. Wemel*

RI Environmental Management  
 FEB 08 2023  
 Office of Water Resources

SCALE:  
 HORZ.: NOT TO SCALE  
 VERT.:  
 DATUM:  
 HORZ.:  
 VERT.:  
 GRAPHIC SCALE

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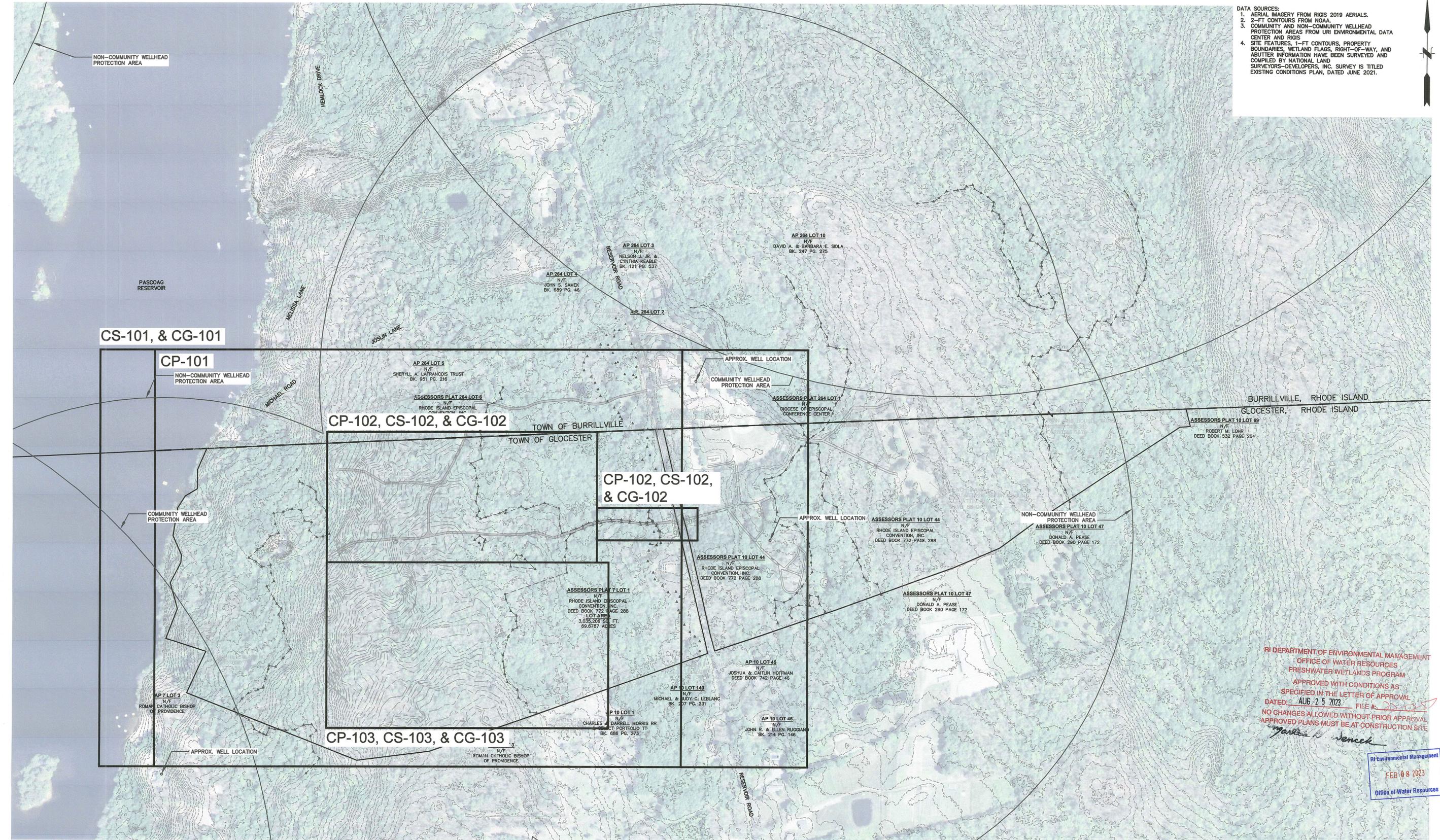
EPISCOPAL DIOCESE OF RHODE ISLAND  
 GENERAL NOTES & LEGEND  
 EDRI CONVENTION CENTER PV ARRAY  
 GLOUCESTER RHODE ISLAND

PROJ. No.: 20171012.A20  
 DATE: SEPT. 30, 2022

**CN-001**  
 SHEET 2 OF 18

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 LAYER STATE:

- DATA SOURCES:  
 1. AERIAL IMAGERY FROM RIGIS 2019 AERIALS.  
 2. 2-FT CONTOURS FROM NOAA.  
 3. COMMUNITY AND NON-COMMUNITY WELLHEAD PROTECTION AREAS FROM URI ENVIRONMENTAL DATA CENTER AND RIGIS  
 4. SITE FEATURES, 1-FT CONTOURS, PROPERTY BOUNDARIES, WETLAND FLAGS, RIGHT-OF-WAY, AND ABUTTER INFORMATION HAVE BEEN SURVEYED AND COMPILED BY NATIONAL LAND SURVEYORS-DEVELOPERS, INC. SURVEY IS TITLED EXISTING CONDITIONS PLAN, DATED JUNE 2021.



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS  
 SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: AUG 25 2023 FILE # 22003  
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|-----|-----------|---|-----------------|----------|
| 7.  | 2/3/2023  | ISSUED FOR PUBLIC COMMENT                       | LAM             | AGG      |
| 6.  | 12/2/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE         | AGG/SMM  |
| 5.  | 10/3/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE         | AGG/SMM  |
| 4.  | 9/27/2022 | ISSUED FOR BUDGETARY PRICING                    | AFJ/GEE         | AGG/SMM  |
| 3.  | 6/13/2022 | RIDEM RESPONSE TO COMMENTS                      | AFJ/GEE/<br>EKO | AGG/SMM  |
| 2.  | 5/4/2022  | ISSUED FOR RER COORDINATION                     | AFJ/GEE         | AGG/SMM  |
| 1.  | 1/19/2022 | ISSUED FOR RIDEM PERMITTING                     | AFJ/GEE         | AGG/SMM  |



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 HORIZ.: NAD83  
 VERT.: NADV88

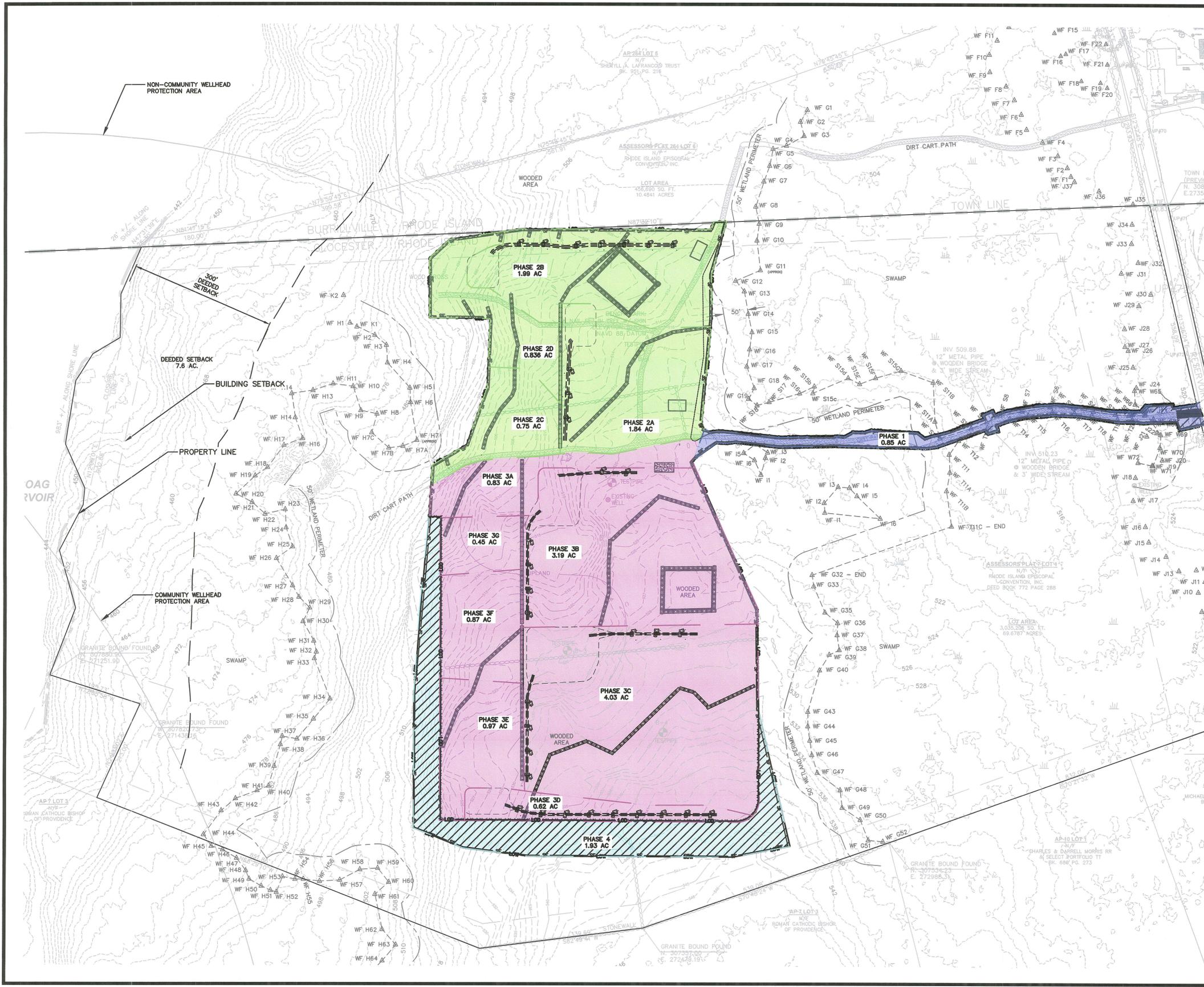
GRAPHIC SCALE

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EPISCOPAL DIOCESE OF RHODE ISLAND  
 INDEX PLAN  
 EDRI CONVENTION CENTER PV ARRAY  
 GLOUCESTER RHODE ISLAND

PROJ. No.: 20171012.A20  
 DATE: SEPT. 30, 2022  
**GI-002**  
 SHEET 3 OF 18

File Path: J:\DWG\2017\1012\2020\CP-101.dwg Layout: CP-101 Plotted: Fri, February 03, 2023 - 1:39 PM User: gemest  
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 LAYER STATE:



**CONSTRUCTION SEQUENCE:**

- THE GENERAL SEQUENCE FOR EACH PHASE OF CONSTRUCTION IS AS FOLLOWS:
- PHASE 1 – ENTRANCE ROAD AND STREAM CROSSING**
1. INSTALL CONSTRUCTION ENTRANCE, AND PERIMETER EROSION AND SEDIMENT CONTROLS INCLUDING WATTLES AROUND PHASE 1 PROJECT LIMITS.
  2. DELINEATE LIMITS OF CLEARING ZONES.
  3. CLEAR AND GRUB AS REQUIRED FOR PHASE 1.
  4. STRIP AND STOCKPILE TOPSOIL PHASE 1 WORK AREA. TEMPORARILY SEED STOCKPILE AS REQUIRED.
  5. ROUGH GRADE ACCESS ROAD.
  6. INSTALL UTILITY POLES.
  7. CONSTRUCT STONE ACCESS ROAD TO CROSSING INCLUDING ELECTRICAL CONDUIT.
  8. CONSTRUCT STREAM CROSSING – CONSTRUCT STREAM CROSSING DURING A PERIOD OF LOW OR NO FLOW, SEE STREAM CROSSING DETAIL.
  9. CONSTRUCT STONE ACCESS ROAD TO END OF PHASE 1 WITH ELECTRICAL CONDUIT.
  10. REPLACE EROSION AND SEDIMENT CONTROLS AS WARRANTED.
- PHASE 2 – NORTHERN ARRAY AREA**
1. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AROUND PHASE 2 PROJECT LIMITS.
  2. DELINEATE LIMITS OF CLEARING ZONES.
  3. CONSTRUCT STONE ACCESS ROADS FOR TREE CLEARING.
  4. CUT PHASE 2 TREES IN ACCORDANCE WITH PLAN AND SITE CLEARING ZONE DETAIL.
    - 4.1. DO NOT REMOVE STUMPS EXCEPT WHERE INDICATED.
    - 4.2. CUT LARGE TREES TO LENGTH AND REMOVE FROM SITE.
    - 4.3. CHIP BRUSH AND BRANCHES AND STOCKPILE FOR FUTURE USE OR REMOVE FROM SITE.
  5. REMOVE STUMPS FROM AREAS REQUIRED TO INSTALL SEDIMENT BASINS AND CONVEYANCE SWALE.
  6. ROUGH GRADE SEDIMENT BASINS AND CONVEYANCE SWALES.
  7. CLEAR AND GRUB AS REQUIRED FOR PHASE 2.
  8. INSTALL STORMWATER INFRASTRUCTURE (E.G. OUTLET CONTROL STRUCTURES, PIPES, ENERGY DISSIPATORS, SEDIMENT TRAP STONE OUTLETS, CONVEYANCE SWALES ETC.). INSTALL SEDIMENT CONTROLS IN STORMWATER INFRASTRUCTURE AND CHECK DAMS, WATTLES, AND SEDIMENT BASIN OUTLET CONTROLS AS INDICATED.
  9. INSTALL WATTLES ALONG CREST OF DETENTION BASIN EMBANKMENTS, AND SILT FENCE BACKED WITH STRAW BALES ALONG TOE OF DETENTION BASIN EMBANKMENTS AND DOWNGRADIENT OF OUTFALLS.
  10. ROUGH GRADE REMAINING PHASE 2 AREAS.
  11. INSTALL SOLAR ARRAY AND ELECTRICAL CONDUIT.
  12. RESPADE TOPSOIL AND FINE GRADE DETENTION BASIN EMBANKMENTS. DO NOT INSTALL TOPSOIL WITHIN DETENTION BASINS UNTIL PHASE 3 WORK AREAS ARE STABILIZED.
  13. CONSTRUCT GRAVEL ACCESS ROADS WITH WATERBARS.
  14. RESPADE TOPSOIL AND FINE GRADE.
  15. INSTALL REMAINING SITE FEATURES (E.G. PERIMETER FENCING, GATES, ETC.).
  16. SEED DISTURBED AREAS AND OVERSEED AREAS THAT WERE CLEARED BUT NOT GRUBBED.
  17. OVER-EXCAVATE SEDIMENT BASINS AND CONVEYANCE SWALES CONVERT TO PERMANENT INFILTRATION BASINS, DETENTION BASINS, AND CONVEYANCE SWALES. REMOVE SEDIMENT FROM OUTLET CONTROL STRUCTURES, ENERGY DISSIPATORS, EMERGENCY SPILLWAYS, OUTLET PIPES, AND FLARED END SECTIONS.
- PHASE 3 – SOUTHERN ARRAY**
1. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AROUND PHASE 3 PROJECT LIMITS.
  2. DELINEATE LIMITS OF CLEARING ZONES.
  3. CONSTRUCT STONE ACCESS ROADS FOR TREE CLEARING.
  4. CUT PHASE 3 TREES IN ACCORDANCE WITH PLAN AND SITE CLEARING ZONE DETAIL.
    - 4.1. DO NOT REMOVE STUMPS EXCEPT WHERE INDICATED.
    - 4.2. CUT LARGE TREES TO LENGTH AND REMOVE FROM SITE.
    - 4.3. CHIP BRUSH AND BRANCHES AND STOCKPILE FOR FUTURE USE OR REMOVE FROM SITE.
  5. REMOVE STUMPS FROM AREAS REQUIRED TO INSTALL SEDIMENT BASINS.
  6. ROUGH GRADE SEDIMENT BASINS AND CONVEYANCE SWALES.
  7. CLEAR AND GRUB AS REQUIRED FOR PHASE 3.
  8. ROUGH GRADE SOLAR ARRAY AREA.
  9. INSTALL STORMWATER INFRASTRUCTURE (E.G. OUTLET CONTROL STRUCTURES, PIPES, ENERGY DISSIPATORS, SEDIMENT TRAP STONE OUTLETS, CONVEYANCE SWALES ETC.). INSTALL SEDIMENT CONTROL IN STORMWATER INFRASTRUCTURE AND CHECK DAMS, WATTLES, AND SEDIMENT BASIN OUTLET CONTROLS AS INDICATED.

10. INSTALL WATTLES ALONG CREST OF DETENTION BASIN EMBANKMENTS, AND SILT FENCE BACKED WITH STRAW BALES ALONG TOE OF DETENTION BASIN EMBANKMENTS AND DOWNGRADIENT OF OUTFALLS.
  11. ROUGH GRADE REMAINING PHASE 3 AREAS.
  12. INSTALL SOLAR ARRAY PIPES, ELECTRICAL CONDUIT, AND INVERTER PAD.
  13. RESPADE TOPSOIL AND FINE GRADE DETENTION BASIN EMBANKMENTS. DO NOT INSTALL TOPSOIL WITHIN DETENTION BASINS UNTIL PHASE 4 WORK AREAS ARE STABILIZED.
  14. CONSTRUCT STONE ACCESS ROADS.
  15. RESPADE TOPSOIL AND FINE GRADE.
  16. INSTALL REMAINING SITE FEATURES (E.G. PERIMETER FENCING, GATES, ETC.).
  17. SEED DISTURBED AREAS AND OVERSEED AREAS THAT WERE CLEARED BUT NOT GRUBBED.
  18. OVER-EXCAVATE SEDIMENT BASINS AND CONVEYANCE SWALES CONVERT TO PERMANENT INFILTRATION BASINS, DETENTION BASINS, AND CONVEYANCE SWALES. REMOVE SEDIMENT FROM OUTLET CONTROL STRUCTURES, ENERGY DISSIPATORS, EMERGENCY SPILLWAYS, OUTLET PIPES, AND FLARED END SECTIONS.
  19. REPLACE EROSION AND SEDIMENT CONTROLS AROUND PROJECT LIMITS AS WARRANTED UNTIL THE SITE IS STABILIZED.
  20. REPAIR ERODED AREAS WITH TOPSOIL AND SEED. INSTALL TOPSOIL WITHIN DETENTION BASINS AND SEED.
- PHASE 4 – SOUTHERN TREE CLEARING AND FINAL CLEANUP/RESTORATION**
17. REPLACE EROSION AND SEDIMENT CONTROLS AROUND PROJECT LIMITS AS WARRANTED. INSTALL PERIMETER EROSION AND SEDIMENT CONTROLS AROUND PHASE 4.
  18. CUT PHASE 4 TREES IN ACCORDANCE WITH PLAN AND SITE CLEARING ZONE DETAIL.
    - 18.1. DO NOT REMOVE STUMPS EXCEPT WHERE INDICATED.
    - 18.2. CUT LARGE TREES TO LENGTH AND REMOVE FROM SITE.
    - 18.3. CHIP BRUSH AND BRANCHES AND STOCKPILE FOR FUTURE USE OR REMOVE FROM SITE.
  19. REMOVE CONSTRUCTION DEBRIS, MATERIALS, AND EQUIPMENT FROM PROJECT SITE.
  20. COMPLETE AS-BUILT SURVEY.
  21. REMOVE EROSION AND SEDIMENT CONTROLS ONCE ALL DISTURBED AREAS HAVE BEEN STABILIZED AND APPROVAL HAS BEEN GRANTED FROM THE ENGINEER.
  22. MAINTAIN VEGETATED AREAS.

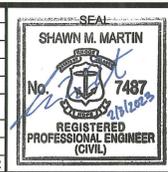
**WETLAND NOTES:**

1. J-SERIES, K-SERIES, F-SERIES, I-SERIES, I-SERIES, AND WETLAND FLAGS T11C THROUGH G-34 WERE NOT VERIFIED BY RIDEM FRESHWATER WETLANDS PROGRAM.
2. THE EXISTING CART PATH BETWEEN THE WETLAND FLAG T-SERIES AND S-SERIES IS LOCATED WITHIN THE 50-FT PERIMETER WETLAND.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS  
 SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: AUG 2 5 2023 FILE #: 22-057  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Martin D. Wencek*  
 RI Environmental Management  
 FEB 08 2023  
 Office of Water Resources

| No. | DATE      | DESCRIPTION                                     | DESIGNER        | REVIEWER |
|-----|-----------|---|-----------------|----------|
| 7.  | 2/3/2023  | ISSUED FOR PUBLIC COMMENT                       | LAM             | AGG      |
| 6.  | 12/2/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE         | AGG/SMM  |
| 5.  | 10/3/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE         | AGG/SMM  |
| 4.  | 9/27/2022 | ISSUED FOR BUDGETARY PRICING                    | AFJ/GEE         | AGG/SMM  |
| 3.  | 6/13/2022 | RIDEM RESPONSE TO COMMENTS                      | AFJ/GEE/<br>EKO | AGG/SMM  |
| 2.  | 5/4/2022  | ISSUED FOR RIDER COORDINATION                   | AFJ/GEE         | AGG/SMM  |
| 1.  | 1/19/2022 | ISSUED FOR RIDER PERMITTING                     | AFJ/GEE         | AGG/SMM  |



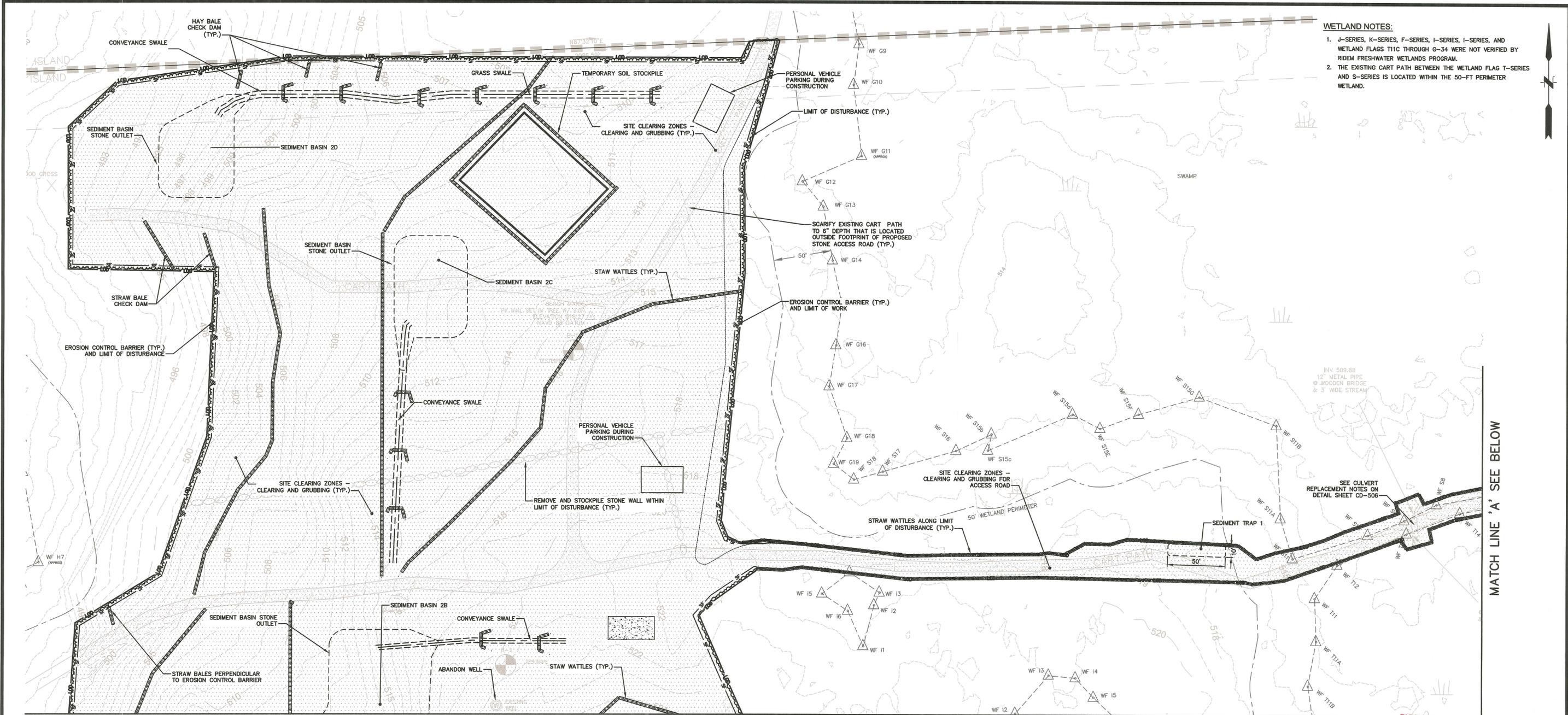
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| VERT: _____     |
| GRAPHIC SCALE   |

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EPISCOPAL DIOCESE OF RHODE ISLAND  
 OVERALL PREPARATION SITE PLAN  
 EDRI CONVENTION CENTER PV ARRAY  
 GLOCESTER RHODE ISLAND

PROJ. No.: 20171012.A20  
 DATE: SEPT. 30, 2022  
**CP-101**  
 SHEET 4 OF 18

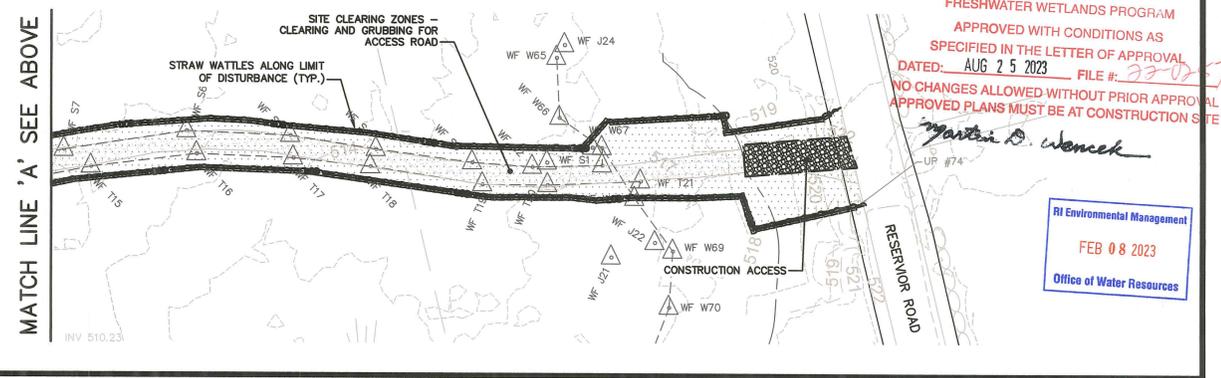
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 LAYER STATE:



- WETLAND NOTES:**
- J-SERIES, K-SERIES, F-SERIES, I-SERIES, I-SERIES, AND WETLAND FLAGS T11C THROUGH G-34 WERE NOT VERIFIED BY RIDEM FRESHWATER WETLANDS PROGRAM.
  - THE EXISTING CART PATH BETWEEN THE WETLAND FLAG T-SERIES AND S-SERIES IS LOCATED WITHIN THE 50-FT PERIMETER WETLAND.

MATCH LINE 'A' SEE BELOW

MATCH LINE SEE SHEET CP-103



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: AUG 25 2023 FILE #: 2302  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Shawn M. Martin*

RI Environmental Management  
 FEB 08 2023  
 Office of Water Resources

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|-----|-----------|---|-----------------|----------|
| 7.  | 2/3/2023  | ISSUED FOR PUBLIC COMMENT                       | LAM             | AGG      |
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| 1.  | 1/19/2022 | ISSUED FOR RIDEM PERMITTING                     | AFJ/GEE         | AGG/SMM  |



SEAL

SCALE:  
 HORZ.: 1" = 40'  
 VERT.:  
 DATUM:  
 HORZ.: NAD83  
 VERT.: NADV88

GRAPHIC SCALE

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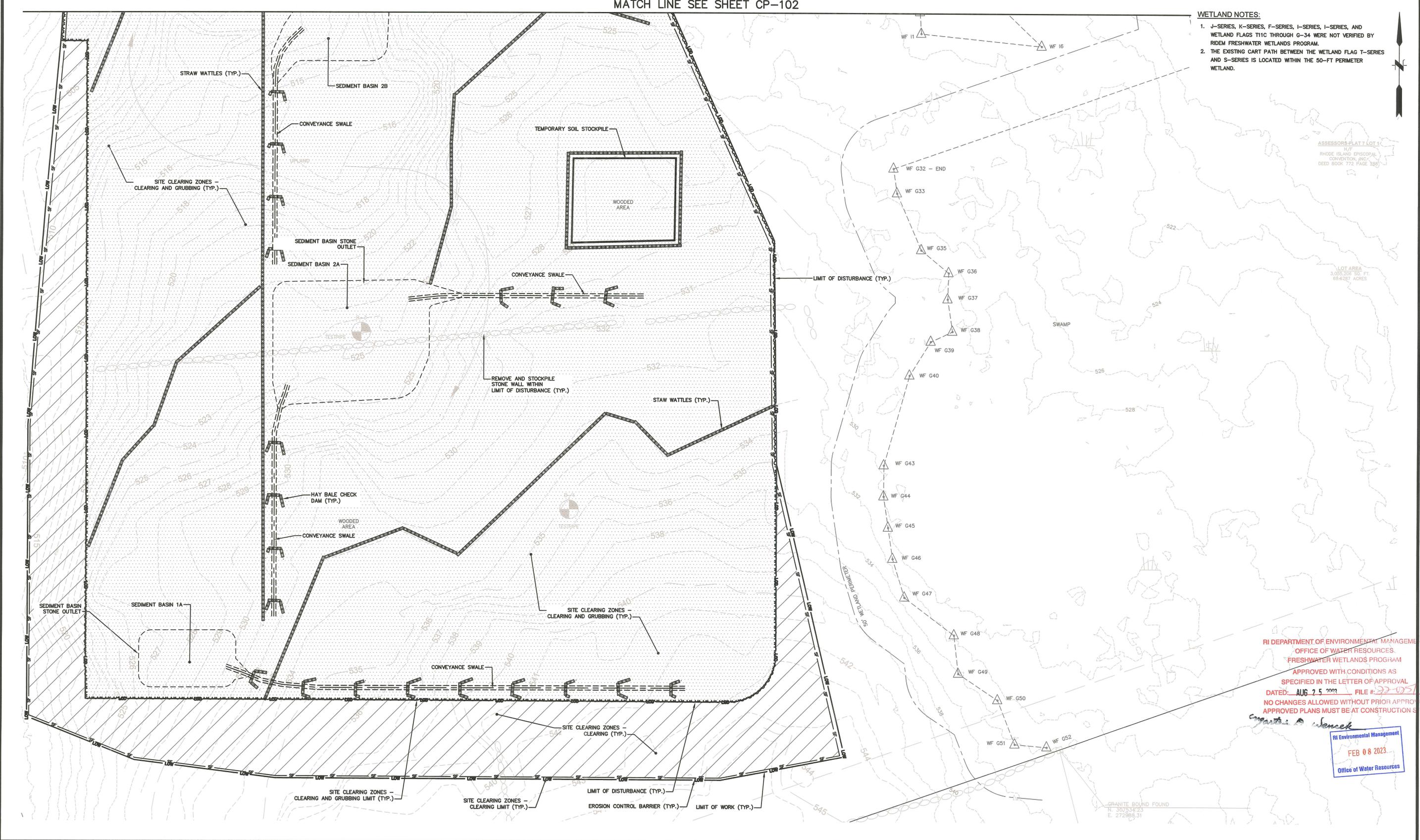
EPISCOPAL DIOCESE OF RHODE ISLAND  
 SITE PREPARATION PLAN NO. 1  
 EDRI CONVENTION CENTER PV ARRAY  
 GLOUCESTER RHODE ISLAND

PROJ. No.: 20171012.A20  
 DATE: SEPT. 30, 2022  
**CP-102**  
 SHEET 5 OF 18

MATCH LINE SEE SHEET CP-102

WETLAND NOTES:

- J-SERIES, K-SERIES, F-SERIES, I-SERIES, I-SERIES, AND WETLAND FLAGS T11C THROUGH G-34 WERE NOT VERIFIED BY RIDEM FRESHWATER WETLANDS PROGRAM.
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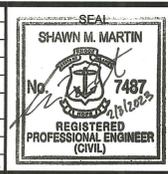


RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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SEAL

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EPISCOPAL DIOCESE OF RHODE ISLAND  
 SITE PREPARATION PLAN NO. 2  
 EDRI CONVENTION CENTER PV ARRAY  
 GLOUCESTER  
 RHODE ISLAND

PROJ. No.: 20171012\_A20  
 DATE: SEPT. 30, 2022  
**CP-103**  
 SHEET 6 OF 18



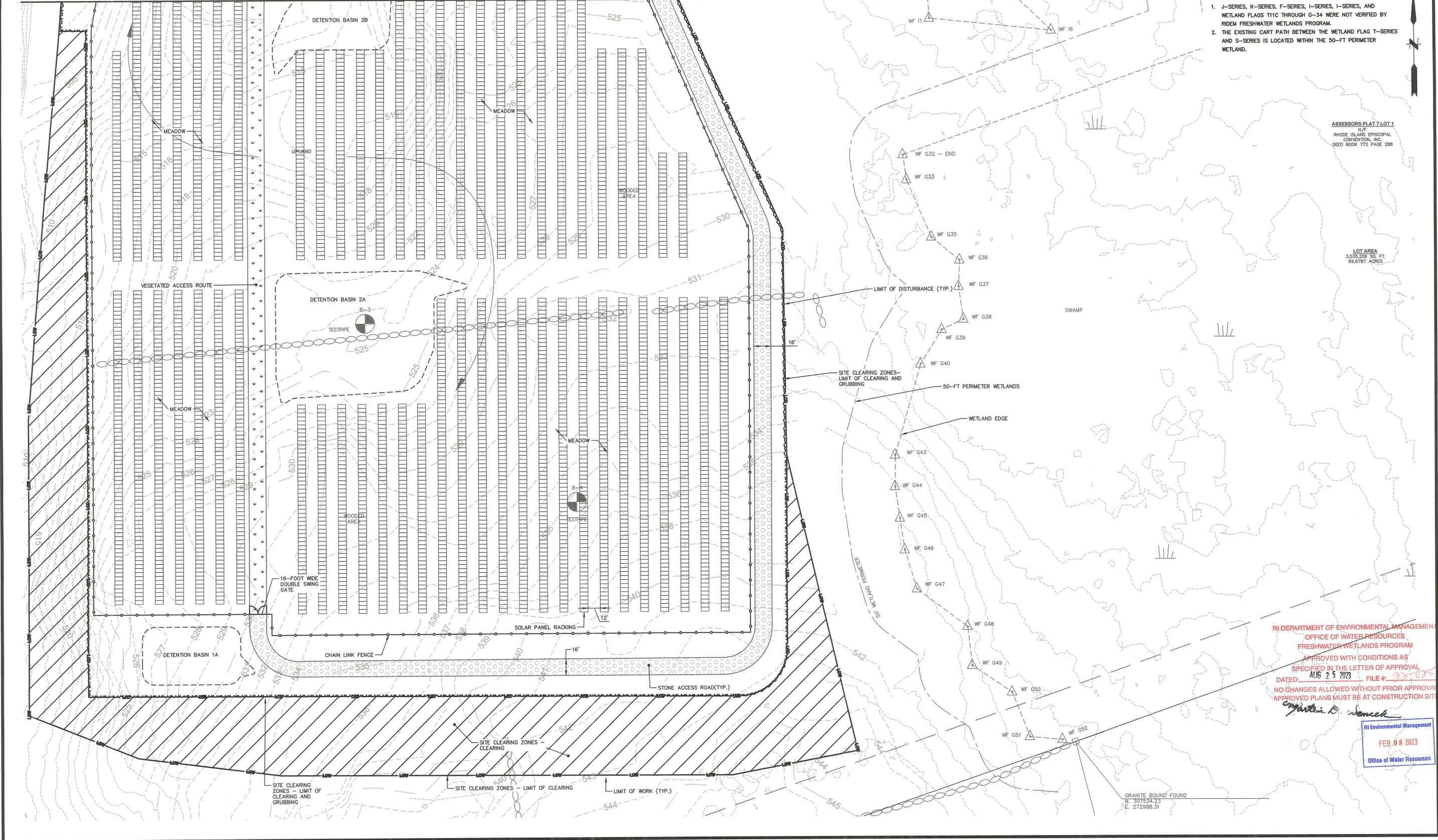


MATCH LINE SEE SHEET CS-102

- WETLAND NOTES:**
1. J-SERIES, K-SERIES, F-SERIES, I-SERIES, L-SERIES, AND WETLAND FLAGS T11C THROUGH G-34 WERE NOT VERIFIED BY RIDEM FRESHWATER WETLANDS PROGRAM.
  2. THE EXISTING CART PATH BETWEEN THE WETLAND FLAG T-SERIES AND S-SERIES IS LOCATED WITHIN THE 50-FIT PERIMETER WETLAND.

ASSESSORS PLAT 7 LOT 1  
N/T  
RHODE ISLAND EPISCOPAL  
CONVENTION, INC.  
DEED BOOK 772 PAGE 288

LOT AREA  
3,035,286 SQ. FT.  
69.8787 ACRES



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: AUG 25 2023 FILE #: 22-000  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Signature*

RI Environmental Management  
FEB 08 2023  
Office of Water Resources

GRANITE BOUND FOUND  
N: 307534.23  
E: 272988.31

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| No. | DATE      | DESCRIPTION                                     | DESIGNER        | REVIEWER |
|-----|-----------|---|-----------------|----------|
| 7.  | 2/3/2023  | ISSUED FOR PUBLIC COMMENT                       | LAM             | AGG      |
| 6.  | 12/2/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE         | AGG/SMM  |
| 5.  | 10/3/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE         | AGG/SMM  |
| 4.  | 9/27/2022 | ISSUED FOR BUDGETARY PRICING                    | AFJ/GEE         | AGG/SMM  |
| 3.  | 6/13/2022 | RIDEM RESPONSE TO COMMENTS                      | AFJ/GEE/<br>EKO | AGG/SMM  |
| 2.  | 5/4/2022  | ISSUED FOR RER COORDINATION                     | AFJ/GEE         | AGG/SMM  |
| 1.  | 1/19/2022 | ISSUED FOR RIDEM PERMITTING                     | AFJ/GEE         | AGG/SMM  |



SEAL

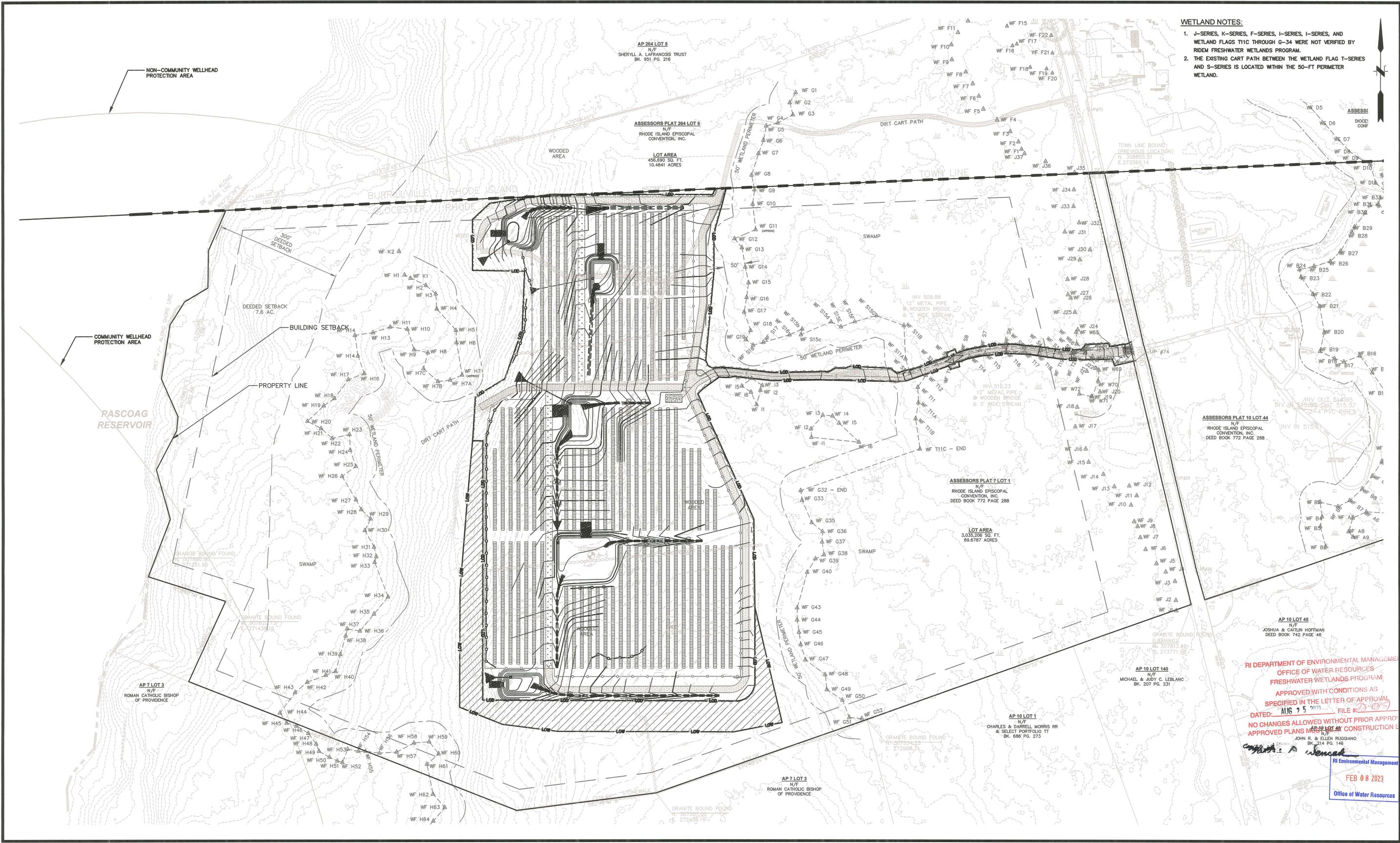
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HORZ.: 1"= 40'  
VERT.:  
DATUM:  
HORZ.: NAD83  
VERT.: NADV88  
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GRAPHIC SCALE

**FUSS & O'NEILL**  
317 IRON HORSE WAY, SUITE 204  
PROVIDENCE, RI 02908  
401.861.3070  
www.fando.com

EPISCOPAL DIOCESE OF RHODE ISLAND  
SITE PLAN NO. 2  
EDRI CONVENTION CENTER PV ARRAY  
GLOCESTER  
RHODE ISLAND

PROJ. No.: 20171012.A20  
DATE: SEPT. 30, 2022  
**CS-103**  
SHEET 9 OF 18

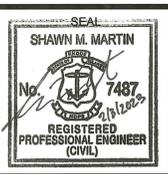
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**WETLAND NOTES:**  
 1. J-SERIES, K-SERIES, F-SERIES, I-SERIES, I-SERIES, AND WETLAND FLAGS T11C THROUGH G-34 WERE NOT VERIFIED BY RIDEM FRESHWATER WETLANDS PROGRAM.  
 2. THE EXISTING CART PATH BETWEEN THE WETLAND FLAG T-SERIES AND S-SERIES IS LOCATED WITHIN THE 50-FT PERIMETER WETLAND.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: AUG 7 5 2023 FILE # 23-057  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS FOR CONSTRUCTION SITE  
 JOHN R. & ELLEN RUGGIANO  
 BK. 214 PG. 148  
 Environmental Management  
 FEB 08 2023  
 Office of Water Resources

| No. | DATE      | DESCRIPTION                                     | DESIGNER        | REVIEWER |
|-----|-----------|---|-----------------|----------|
| 7.  | 2/3/2023  | ISSUED FOR PUBLIC COMMENT                       | LAM             | AGG      |
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| 5.  | 10/3/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE         | AGG/SMM  |
| 4.  | 9/27/2022 | ISSUED FOR BUDGETARY PRICING                    | AFJ/GEE         | AGG/SMM  |
| 3.  | 6/13/2022 | RIDEM RESPONSE TO COMMENTS                      | AFJ/GEE/<br>EKO | AGG/SMM  |
| 2.  | 5/4/2022  | ISSUED FOR RER COORDINATION                     | AFJ/GEE         | AGG/SMM  |
| 1.  | 1/19/2022 | ISSUED FOR RIDEM PERMITTING                     | AFJ/GEE         | AGG/SMM  |



SEAL

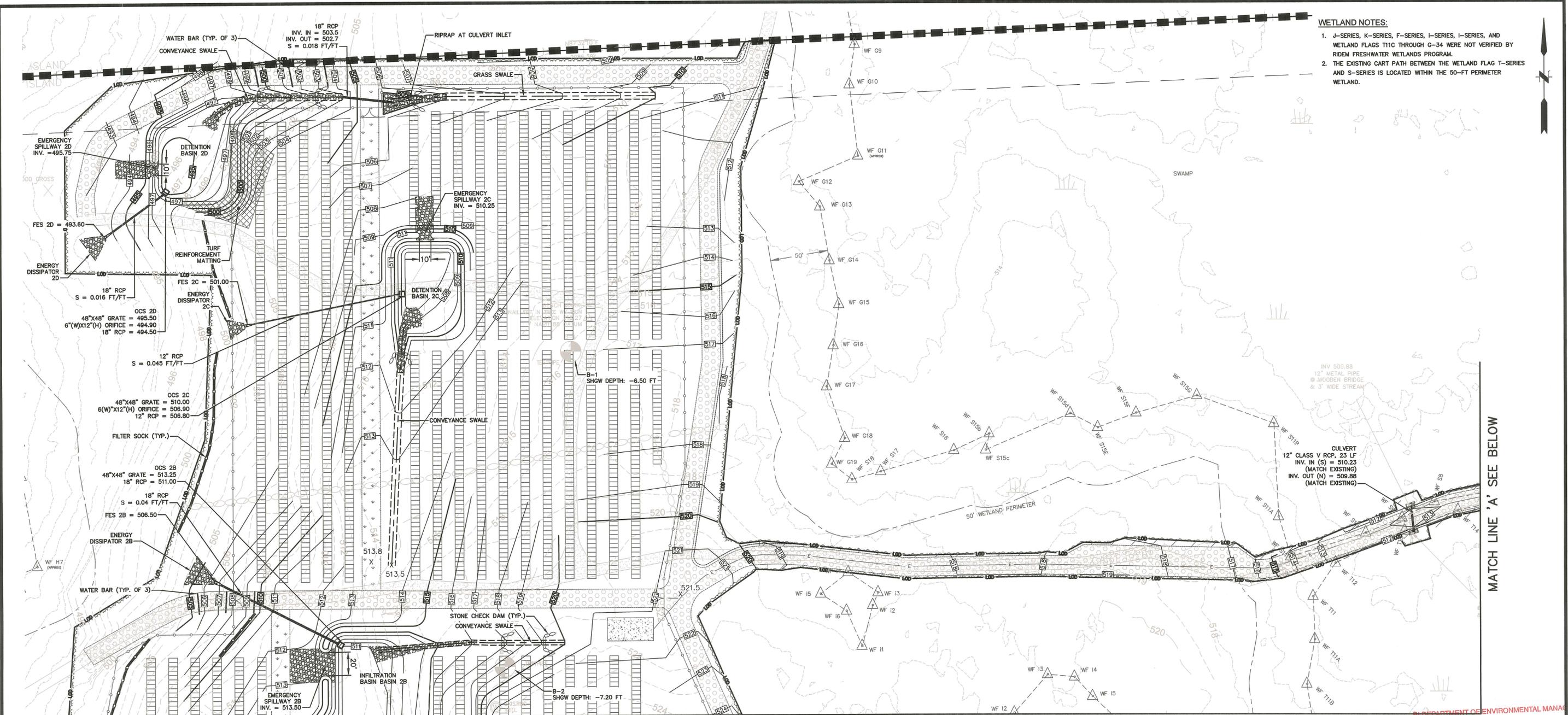
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 VERT:  
 GRAPHIC SCALE



EPISCOPAL DIOCESE OF RHODE ISLAND  
 OVERALL GRADING & DRAINAGE PLAN  
 EDRI CONVENTION CENTER PV ARRAY  
 GLOCESTER RHODE ISLAND

PROJ. No.: 20171012.A20  
 DATE: SEPT. 30, 2022  
**CG-101**  
 SHEET 10 OF 18

File Path: J:\DWG\20171012\20\_GRA06\_LOTT1.dwg Layout: CG-102 Plotted: Fri, February 03, 2023 - 1:42 PM User: gemest  
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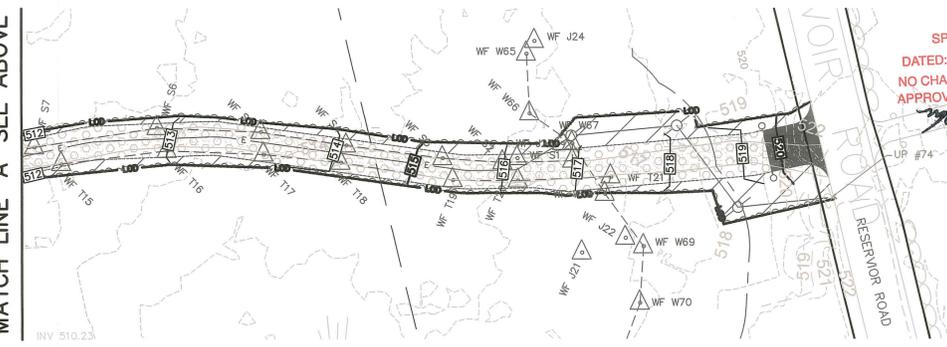


**WETLAND NOTES:**  
 1. J-SERIES, K-SERIES, F-SERIES, I-SERIES, I-SERIES, AND WETLAND FLAGS T11C THROUGH Q-34 WERE NOT VERIFIED BY RIDEM FRESHWATER WETLANDS PROGRAM.  
 2. THE EXISTING CART PATH BETWEEN THE WETLAND FLAG T-SERIES AND S-SERIES IS LOCATED WITHIN THE 50-FT PERIMETER WETLAND.

MATCH LINE 'A' SEE BELOW

MATCH LINE SEE SHEET CG-103

MATCH LINE 'A' SEE ABOVE



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: AUG 7 5 2022 FILE # 22-0257  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

*Martin M. Martin*  
 RI Environmental Management  
 FEB 08 2023  
 Office of Water Resources

| No. | DATE      | DESCRIPTION                                     | DESIGNER    | REVIEWER |
|-----|-----------|---|-------------|----------|
| 7.  | 2/3/2023  | ISSUED FOR PUBLIC COMMENT                       | LAM         | AGG      |
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| 4.  | 9/27/2022 | ISSUED FOR BUDGETARY PRICING                    | AFJ/GEE     | AGG/SMM  |
| 3.  | 6/13/2022 | RIDEM RESPONSE TO COMMENTS                      | AFJ/GEE/EKO | AGG/SMM  |
| 2.  | 5/4/2022  | ISSUED FOR RER COORDINATION                     | AFJ/GEE     | AGG/SMM  |
| 1.  | 1/19/2022 | ISSUED FOR RIDEM PERMITTING                     | AFJ/GEE     | AGG/SMM  |



SEAL

SCALE:  
 HORZ.: 1"= 40'  
 VERT.:  
 DATUM:  
 HORZ.: NAD83  
 VERT.: NADV88  
 GRAPHIC SCALE



EPISCOPAL DIOCESE OF RHODE ISLAND  
 GRADING & DRAINAGE PLAN NO. 1  
 EDRI CONVENTION CENTER PV ARRAY  
 GLOCESTER  
 RHODE ISLAND

PROJ. No.: 20171012\_A20  
 DATE: SEPT. 30, 2022  
**CG-102**  
 SHEET 11 OF 18

MATCH LINE SEE SHEET CG-102

**WETLAND NOTES:**

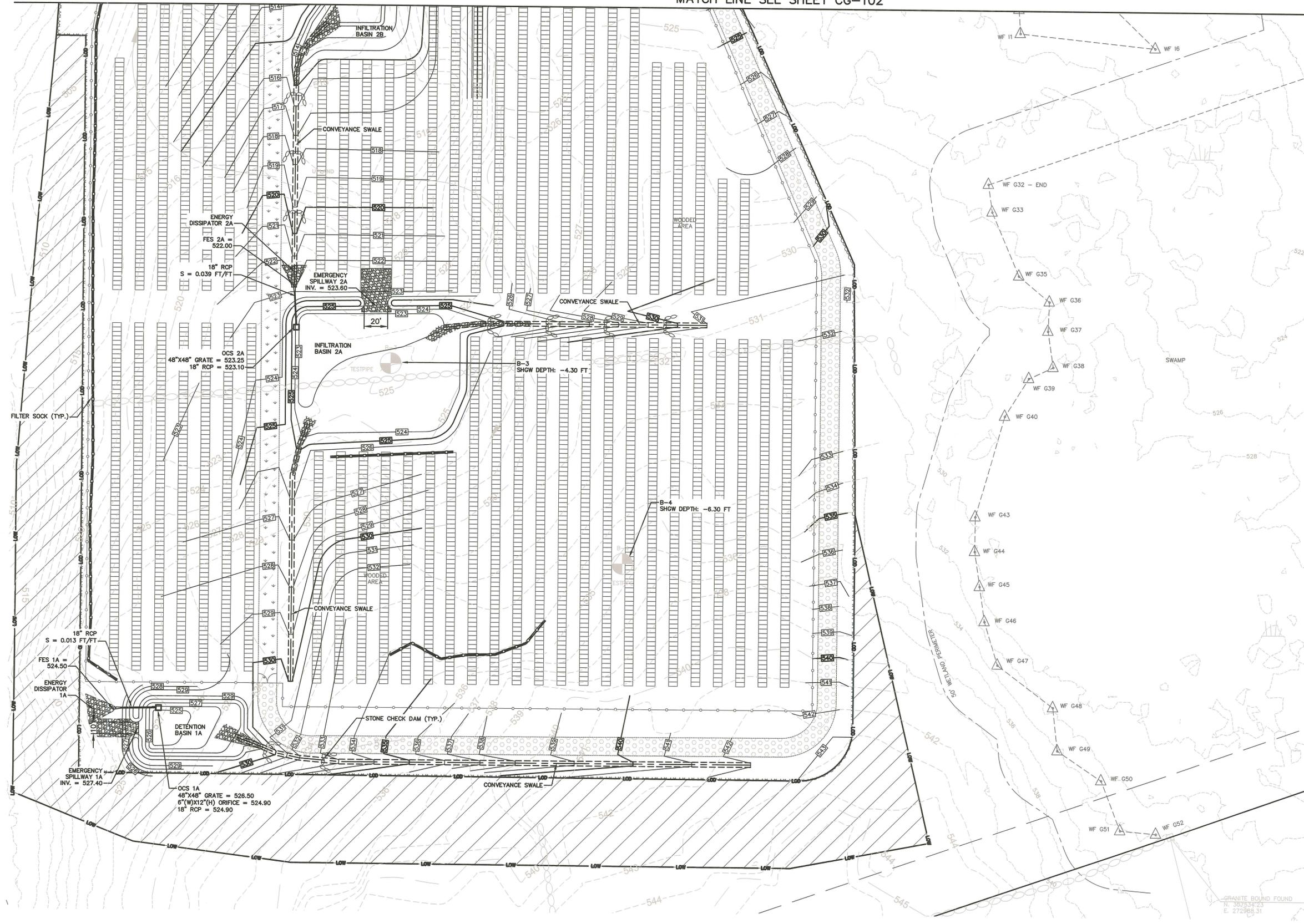
1. J-SERIES, K-SERIES, F-SERIES, I-SERIES, I-SERIES, AND WETLAND FLAGS T11C THROUGH G-34 WERE NOT VERIFIED BY RIDEM FRESHWATER WETLANDS PROGRAM.
2. THE EXISTING CART PATH BETWEEN THE WETLAND FLAG T-SERIES AND S-SERIES IS LOCATED WITHIN THE 50-FT PERIMETER WETLAND.

ASSESSORS PLAT 7 LOT 1  
N/W  
RHODE ISLAND EPISCOPAL  
CONVENTION, INC.  
DEED BOOK 772 PAGE 288

LOT AREA  
3,035,206 SQ. FT.  
69.6787 ACRES

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF WATER RESOURCES  
FRESHWATER WETLANDS PROGRAM  
APPROVED WITH CONDITIONS AS  
SPECIFIED IN THE LETTER OF APPROVAL  
DATED: AUG 7 5 2023 FILE # 23-057  
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

RI Environmental Management  
FEB 08 2023  
Office of Water Resources



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| No. | DATE      | DESCRIPTION                                     | DESIGNER        | REVIEWER |
|-----|-----------|---|-----------------|----------|
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| 2.  | 5/4/2022  | ISSUED FOR RER COORDINATION                     | AFJ/GEE         | AGG/SMM  |
| 1.  | 1/19/2022 | ISSUED FOR RIDEM PERMITTING                     | AFJ/GEE         | AGG/SMM  |



| SEAL  | SEAL |
|---|------|
| SHAWN M. MARTIN<br>REGISTERED PROFESSIONAL ENGINEER (CIVIL)<br>No. 7487 |      |

SCALE:

HORIZ.: 1"= 40'

VERT.:

DATUM:

HORIZ.: NAD83

VERT.: NADV88

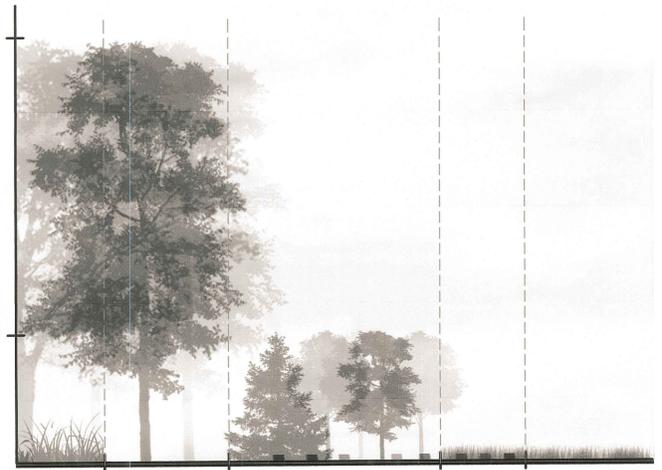
GRAPHIC SCALE

**FUSS & O'NEILL**  
317 IRON HORSE WAY, SUITE 204  
PROVIDENCE, RI 02908  
401.861.3070  
www.fando.com

EPISCOPAL DIOCESE OF RHODE ISLAND  
GRADING & DRAINAGE PLAN NO. 2  
EDRI CONVENTION CENTER PV ARRAY  
GLOUCESTER RHODE ISLAND

PROJ. No.: 20171012.A20  
DATE: SEPT. 30, 2022  
**CG-103**  
SHEET 12 OF 18



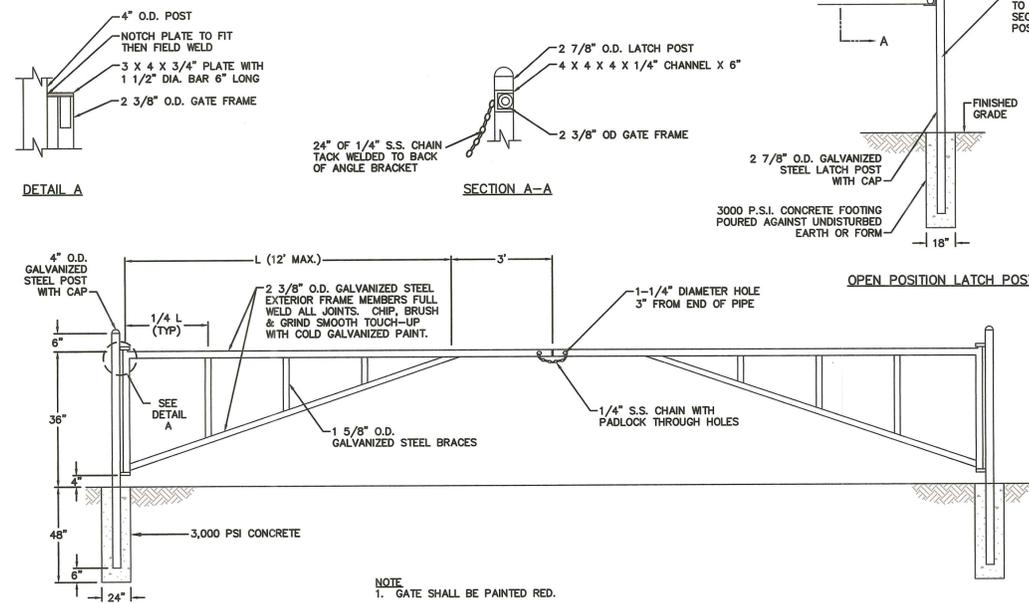


**NOTES:**  
 SELECTIVE CLEARING, CLEARING, AND CLEARING AND GRUBBING LIMITS ARE DEPICTED ON SITE PREPARATION PLANS. CLEARING SEQUENCE, AS OUTLINED IN THE CONSTRUCTION SEQUENCE MUST BE FOLLOWED.

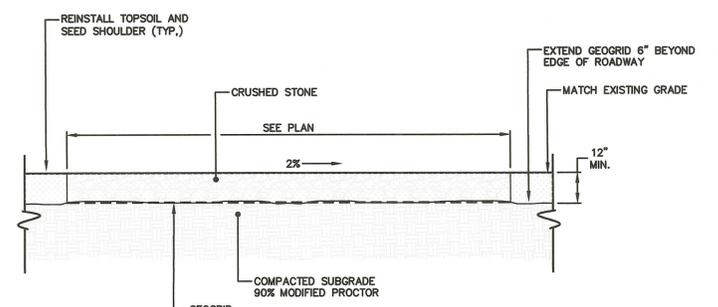
THE FOLLOWING PARAMETERS SHALL APPLY FOR CLEARING DURING CONSTRUCTION:

1. WETLAND - NO DISTURBANCE.
2. 50 FOOT BUFFER - NO DISTURBANCE WITHIN 50 FEET OF WETLAND BOUNDARY.
3. SELECTIVE CLEARING - TREES ARE TO BE CUT TO A MAXIMUM HEIGHT OF 15 FEET. TREES AND UNDERSTORY LESS THAN 15 FEET IN HEIGHT SHALL REMAIN TO THE MAXIMUM EXTENT PRACTICABLE. STUMPS SHALL NOT BE REMOVED.
4. CLEARING - TREES ARE TO BE CUT AT GROUND LEVEL. UNDERSTORY AND BRUSH LESS THAN 5 FEET IN HEIGHT SHALL REMAIN TO MAXIMUM EXTENT PRACTICABLE. STUMPS SHALL NOT BE REMOVED.
5. CLEARING AND GRUBBING - TREES, UNDERSTORY, AND STUMPS SHALL BE REMOVED.

**SITE CLEARING ZONES**  
 NOT TO SCALE



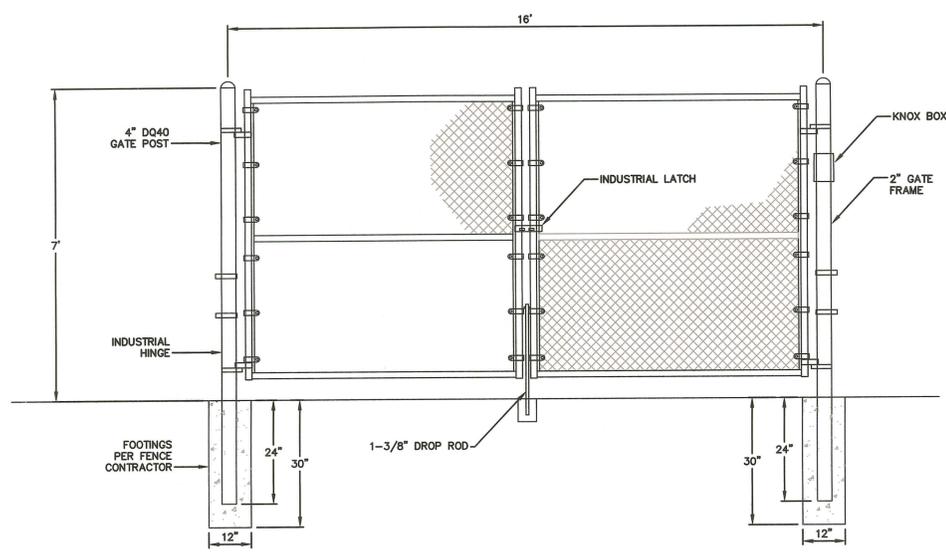
**STEEL PIPE DOUBLE LEAF SWING GATE**  
 SCALE: NOT TO SCALE



**NOTES:**

1. REMOVE TOPSOIL FROM EXISTING CART PATHS. GRADE SUBGRADE TO ACHIEVE UNIFORM SLOPES. SCARIFY SURFACE PRIOR TO PLACEMENT OF CRUSHED STONE.
2. ROAD CROSS-SLOPE SHALL BE 2% AND SHALL MAINTAIN SHEET FLOW TO ADJACENT VEGETATED AREAS.
3. CRUSHED STONE SHALL BE WASHED AND CONSIST OF MIX OF 3/4\"/>

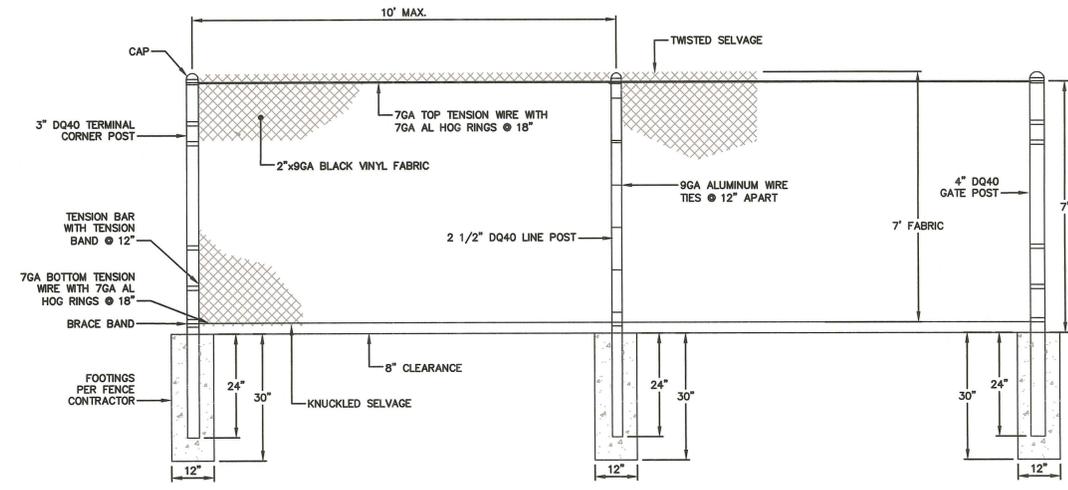
**STONE ACCESS ROAD**  
 NOT TO SCALE



**NOTES:**

1. ALL MATERIALS ARE GALVANIZED.
2. GATE POSTS 4\"/>

**16-FOOT WIDE DOUBLE-SWING GATE**  
 NOT TO SCALE



**NOTES:**

1. FENCING DESIGN TO BE CHECKED BY AN ENGINEER FOR WIND LOADS IF SLATS ARE USED OR IF POOR SOIL CONDITIONS EXIST.
2. STRAIGHT RUNS BETWEEN RACED POSTS SHALL NOT EXCEED 500 FT.
3. FENCE DETAILS ARE INTENDED AS A GUIDE ONLY. ALL FENCE MATERIALS AND CONSTRUCTION METHODS SHALL BE APPROVED BY THE ENGINEER AND FENCE MANUFACTURER.
4. ALL MATERIALS ARE GALVANIZED.
5. GATE POSTS 4\"/>

**CHAIN LINK FENCE**  
 NOT TO SCALE

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| No. | DATE      | DESCRIPTION                                     | DESIGNER        | REVIEWER |
|-----|-----------|---|-----------------|----------|
| 7.  | 2/3/2023  | ISSUED FOR PUBLIC COMMENT                       | LAM             | AGG      |
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| 5.  | 10/3/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE         | AGG/SMM  |
| 4.  | 9/27/2022 | ISSUED FOR BUDGETARY PRICING                    | AFJ/GEE         | AGG/SMM  |
| 3.  | 6/13/2022 | RIDEM RESPONSE TO COMMENTS                      | AFJ/GEE/<br>EKO | AGG/SMM  |
| 2.  | 5/4/2022  | ISSUED FOR RER COORDINATION                     | AFJ/GEE         | AGG/SMM  |
| 1.  | 1/19/2022 | ISSUED FOR RIDEM PERMITTING                     | AFJ/GEE         | AGG/SMM  |



SEAL

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 HORZ.: AS NOTED  
 VERT.:  
 DATUM:  
 HORZ.:  
 VERT.:  
 GRAPHIC SCALE

**FUSS & O'NEILL**  
 317 IRON HORSE WAY, SUITE 204  
 PROVIDENCE, RI 02908  
 401.861.3070  
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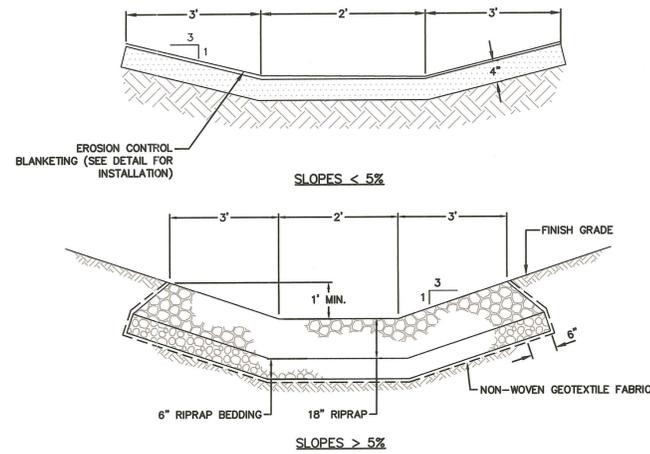
EPISCOPAL DIOCESE OF RHODE ISLAND  
 DETAILS  
 EDRI CONVENTION CENTER PV ARRAY  
 GLOCESTER  
 RHODE ISLAND

PROJ. No.: 20171012.A20  
 DATE: SEPT. 30, 2022  
**CD-502**  
 SHEET 14 OF 18

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: AUG 25 2023 FILE # 2023-0257  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
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*Shawn M. Martin*

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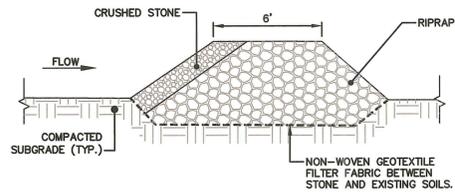


- NOTES:**
- INSTALL WATTLES ALONG UP-GRADE SIDE OF ALL DRAINAGE CHANNELS IMMEDIATELY FOLLOWING CONSTRUCTION. REMOVE WATTLES ONCE VEGETATION IS STABILIZED.
  - FOR SLOPES < 5%
    - EROSION CONTROL BLANKETING SHALL BE SINGLE-NET STRAW BIODEGRADABLE ROLLED EROSION CONTROL BLANKET, ECS-2B, MANUFACTURED BY ACP ENVIRONMENTAL.
  - FOR SLOPES > 5%
    - RIPRAP BEDDING SHALL CONFORM TO NSA No. FS-2 GRADATION.
    - RIPRAP SHALL CONFORM TO MASHOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, SECTION M2.02.2, AND THE FOLLOWING GRADATION.
    - INSTALL STONE CHECK DAMS AT 50-FOOT INTERVALS ALONG SWALE.

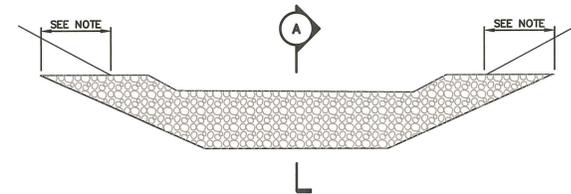
| CHANNEL No. | NSA No. | D50 STONE SIZE |
|-------------|---------|----------------|
| ALL         | R-4     | 6"             |

**CONVEYANCE SWALE**  
NOT TO SCALE

| BASIN #  | TOTAL STORAGE VOLUME REQ. (CF) | WET STORAGE VOLUME (CF) | DRY STORAGE VOLUME (CF) | TOTAL VOLUME PROVIDED (CF) | CLEANOUT DEPTH (FT) |
|----------|--------------------------------|-------------------------|-------------------------|----------------------------|---------------------|
| BASIN 1A | 2,245                          | 3,879                   | 7,759                   | 11,638                     | 1                   |
| BASIN 2A | 14,638                         | 18154                   | 18154                   | 36,308                     | 1.50                |
| BASIN 2B | 11,593                         | 13282                   | 22137                   | 35,419                     | 1.50                |
| BASIN 2C | 6,677                          | 6,125                   | 10,209                  | 16,335                     | 1.50                |
| BASIN 2D | 7,226                          | 6,309                   | 2,103                   | 8,412                      | 1.50                |

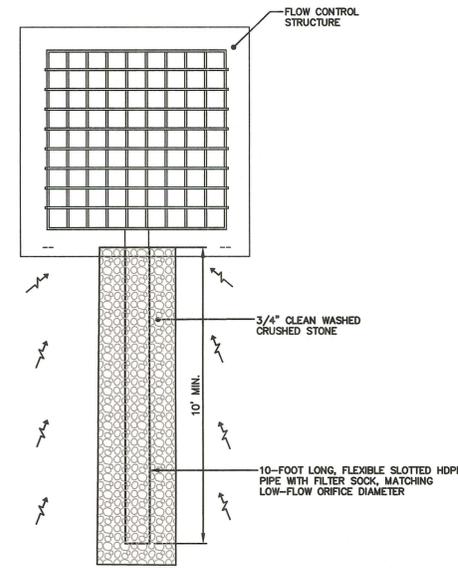


**SECTION A-A**

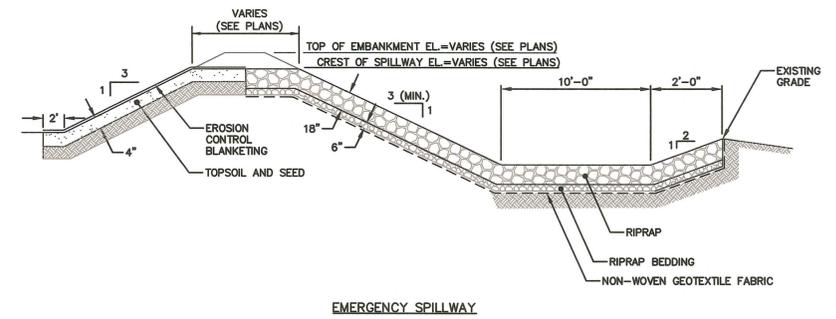


- NOTES:**
- KEY STONE INTO EMBANKMENTS AND EXTEND A MINIMUM OF 12" TO PREVENT FLOW FROM FLANKING SEDIMENT TRAP.
  - CRUSHED STONE SHALL BE 3/8" DIA., CLEAN, WASHED STONE.
  - RIPRAP SHALL BE NSA R-2.

**SEDIMENT BASIN STONE OUTLET**  
NOT TO SCALE

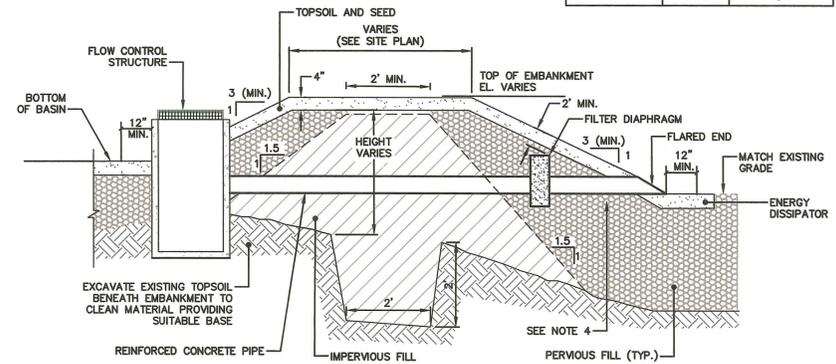


**SEDIMENT BASIN OUTLET**  
NOT TO SCALE



- EMERGENCY SPILLWAY NOTES:**
- SEE EROSION CONTROL BLANKETING DETAIL.
  - RIPRAP BEDDING SHALL CONFORM TO NSA No. FS-2 GRADATION.
  - RIPRAP SHALL CONFORM TO RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (AMENDED 2018), SECTION M10.03.2, AND THE FOLLOWING GRADATION.

| SPILLWAY No. | NSA No. | D50 STONE SIZE |
|--------------|---------|----------------|
| 1A           | R-4     | 6"             |
| 2A           | R-4     | 6"             |
| 2B           | R-4     | 6"             |
| 2C           | R-4     | 6"             |
| 2D           | R-4     | 6"             |

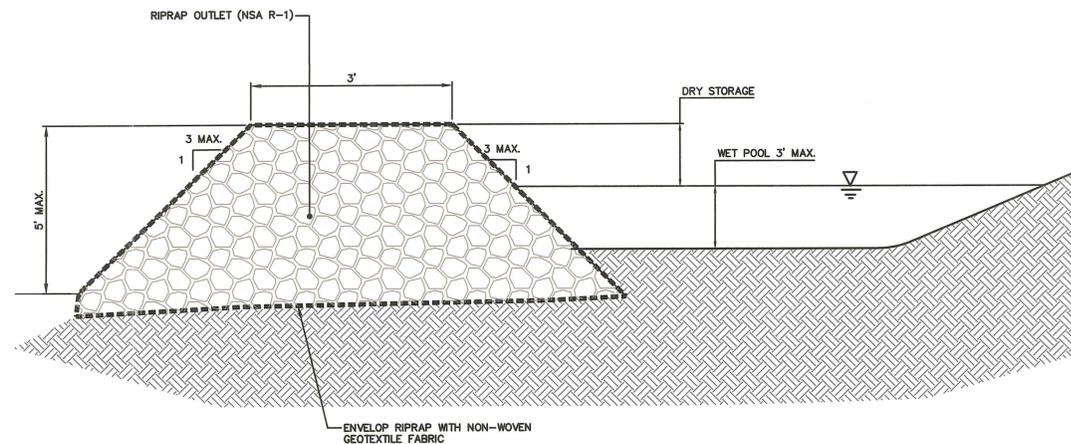


- EMBANKMENT NOTES:**
- IMPERVIOUS MATERIAL FOR USE IN BASIN EMBANKMENT AREAS AND WHERE SHOWN ON THE PLANS SHALL BE COMPOSED OF CLAYS, SILTY CLAYS, OR CLAYEY SILTS. IMPERVIOUS FILL SHALL BE COMPACTED TO 95-PERCENT MODIFIED PROCTOR. THE SOIL SHALL BE FREE OF RUBBISH, ICE, VEGETATIVE MATTER, LOAM, OR OTHER DEBRIS AND HAVE THE FOLLOWING GRADATION AS DEFINED BY A STANDARD SEIVE TEST (ASTM D422):

| U.S. STANDARD SIEVE SIZE | PERCENT PASSING BY WEIGHT |
|--------------------------|---------------------------|
| 3-INCH                   | 100                       |
| No. 10                   | 30 - 90                   |
| No. 40                   | 10 - 70                   |
| No. 200                  | 20 - 40                   |

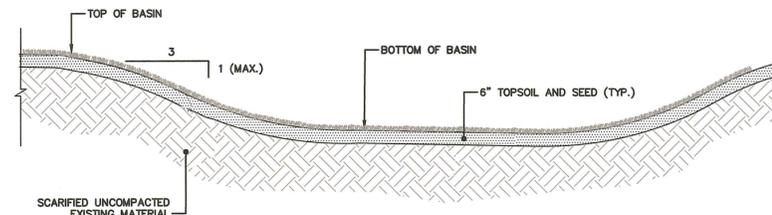
- PERVIOUS BACKFILL MATERIAL FOR USE IN FILL AREAS ASSOCIATED WITH BASIN EMBANKMENTS SHALL BE COMPOSED OF SATISFACTORY ON-SITE MATERIAL OR BORROW SOIL MATERIALS WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE FROM EXCAVATIONS. SATISFACTORY ON-SITE MATERIAL SHALL HAVE SOIL CLASSIFICATION GROUPS OF GW, GP, GM, SW, SP, AND SM ACCORDING TO ASTM D 2487, OR A COMBINATION OF THESE GROUPS AND SHALL BE FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES (75 MM) IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER. PERVIOUS BACKFILL SHALL BE COMPACTED TO 90-PERCENT MODIFIED PROCTOR.
- PIPE INSTALLED THROUGH EMBANKMENT SHALL INCLUDE WATER-TIGHT JOINTS AND INCLUDE FILTER DIAPHRAGM DOWNGRADIENT OF IMPERVIOUS FILL CORE.
- SEE RCP TRENCH DETAIL FOR BEDDING AND INITIAL BACKFILL REQUIREMENTS WHEN OUTSIDE IMPERVIOUS FILL CORE OR FILTER DIAPHRAGM.
- SIEVE, MODIFIED PROCTOR, AND ATTEBURG LIMITS (FOR IMPERVIOUS FILL MATERIAL) SHALL BE TESTED AND PROVIDED TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
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 DATED: AUG 25 2023 FILE # 2023-07  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
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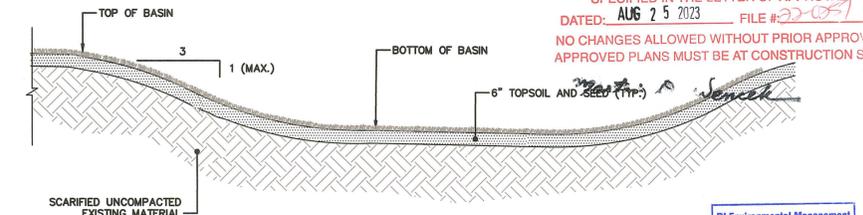
- NOTE:**
- SEDIMENT BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH RIDEM SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.

**TEMPORARY SEDIMENT BASIN**  
NOT TO SCALE



- BASIN NOTES:**
- SEED MIX SHALL BE NEW ENGLAND WETLAND PLANTS "NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES".
  - SEE DETENTION BASINS EMERGENCY SPILLWAY AND EMBANKMENT DETAILS FOR MATERIALS AND CONSTRUCTION OF EMERGENCY SPILLWAY AND EMBANKMENT.

**INFILTRATION BASIN**  
NOT TO SCALE



- BASIN NOTES:**
- SEED MIX SHALL BE NEW ENGLAND WETLAND PLANTS "NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES".

**DETENTION BASIN**  
NOT TO SCALE

RI Environmental Management  
 FEB 08 2023  
 Office of Water Resources

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|-----|-----------|---|-----------------|----------|
| 7.  | 2/3/2023  | ISSUED FOR PUBLIC COMMENT                       | LAM             | AGG      |
| 6.  | 12/2/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE         | AGG/SMM  |
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| 4.  | 9/27/2022 | ISSUED FOR BUDGETARY PRICING                    | AFJ/GEE         | AGG/SMM  |
| 3.  | 6/13/2022 | RIDEM RESPONSE TO COMMENTS                      | AFJ/GEE/<br>EKO | AGG/SMM  |
| 2.  | 5/4/2022  | ISSUED FOR RER COORDINATION                     | AFJ/GEE         | AGG/SMM  |
| 1.  | 1/19/2022 | ISSUED FOR RIDEM PERMITTING                     | AFJ/GEE         | AGG/SMM  |



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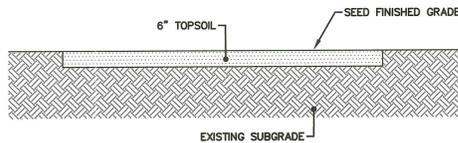
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 DETAILS  
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 RHODE ISLAND

PROJ. No.: 20171012.A20  
 DATE: SEPT. 30, 2022  
**CD-503**  
 SHEET 15 OF 18

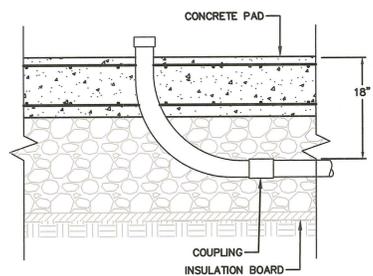


**NOTES:**

1. REUSE TOPSOIL ON-SITE. VERIFY SUITABILITY OF STOCKPILED TOPSOIL TO PRODUCE LOAM. CLEAN TOPSOIL OF ROOTS, PLANTS, SOIL, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
  - 1.1. SUPPLEMENT WITH IMPORTED OR MANUFACTURED LOAM FROM OFF-SITE SOURCES WHEN QUANTITIES ARE INSUFFICIENT. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP.
2. LOAM OR RESPREAD TOPSOIL SHALL CONFORM TO ASTM D5268, WITH PH BETWEEN 5.5 AND 7, A MINIMUM OF 6 PERCENT ORGANIC MATERIAL CONTENT, FREE OF STONES 1 INCH OR LARGER AND FREE OF OTHER EXTRANEOUS MATERIALS. SHALL NOT BE OBTAINED FROM AGRICULTURAL LAND, BOGS, OR MARSHES.
3. ALL SURFACED AREAS OR DISTURBED AREAS NOT SPECIFIED ON THE PLANS SHALL RECEIVE 6 INCHES OF LOAM OR RESPREAD TOPSOIL, SEED, MULCH, AND BE WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
4. SEED MIX SHALL BE "HART'S LOW GROW MIXTURE" OR APPROVED EQUAL BY ENGINEER.

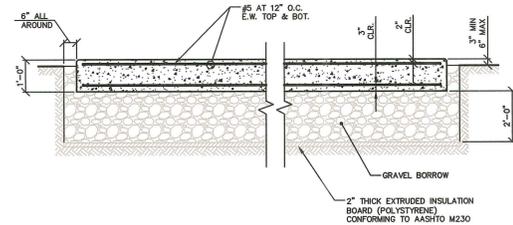
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**UNDERGROUND INVERTER CONDUIT DETAIL**

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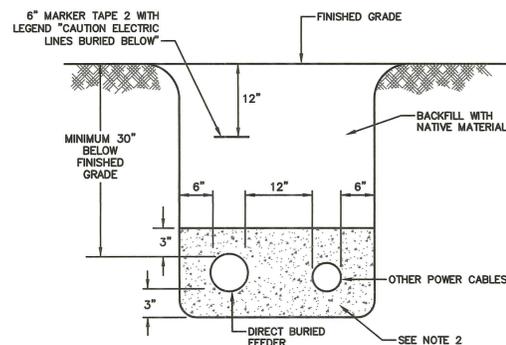


**NOTES:**

1. ALL CONCRETE WORK SHALL CONFORM TO ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
2. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 AND BE DETAILED IN ACCORDANCE WITH ACI 315 "MANUAL OF STANDARD PRACTICE FOR DETAILED REINFORCED CONCRETE STRUCTURES".
3. REBARS SHALL HAVE A MINIMUM CONCRETE COVER AS FOLLOWS:
  - CONCRETE DEPOSITED AGAINST GROUND.....3 IN.
  - CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
    - FOR BARS #5 AND LARGER.....2 IN.
    - FOR BARS SMALLER THAN #5.....1 1/2 IN.
  - CONCRETE NOT EXPOSED TO THE WEATHER OR THE GROUND:
    - SLABS AND WALLS.....3/4 IN.
4. ALL REINFORCING BARS SHALL BE CONTINUOUS AND LAPPED A MINIMUM OF 48 BAR DIAMETERS AT ALL SPLICES, CORNERS, AND INTERSECTIONS UNLESS NOTED OTHERWISE.
5. ALL REINFORCEMENT SHALL BE SECURELY TIED IN ITS PROPOSED LOCATION PRIOR TO AND DURING PLACEMENT OF CONCRETE USING APPROVED CHAIRS, SPACERS AND TIE WIRE AS REQUIRED. NO BARS SHALL BE CUT OR OMITTED IN THE FIELD WITHOUT THE APPROVAL OF THE ENGINEER.
6. CONCRETE PROTECTION FOR REINFORCEMENT SHALL IN ALL CASES BE AT LEAST EQUAL TO THE DIAMETER OF THE BAR EXCEPT FOR CONCRETE SLABS.
7. ALL CONCRETE SHALL BE CAST-IN-PLACE, NORMAL WEIGHT CONCRETE AND SHALL DEVELOP A COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 DAYS. CONCRETE SHALL HAVE A MAXIMUM AGGREGATE SIZE OF 3/4 INCH, A MINIMUM CEMENT CONTENT OF 560 LBS/CU. YD., AND A MAXIMUM SLUMP OF 4 INCHES. 14. CONCRETE SHALL BE CLASS XX IN ACCORDANCE WITH SECTION 601 OF THE RIDOT STANDARD SPECIFICATIONS.
8. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4 INCH CHAMFER UNLESS NOTED.
9. GRAVEL BORROW SHALL BE IN ACCORDANCE WITH SECTION M.01.09, TABLE 1, COLUMN 1A.
10. ALL CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR-ENTRAINED.
11. SIZES AND LOCATIONS OF ALL REQUIRED EMBEDDED ITEMS FOR ALL TRADES SUCH AS ANCHOR BOLTS, PIPING SLEEVES, HOLDOWN ANCHORS, ETC., SHALL BE COORDINATED BY THE CONTRACTOR WITH OTHER TRADES.

**INVERTER PAD**

NOT TO SCALE

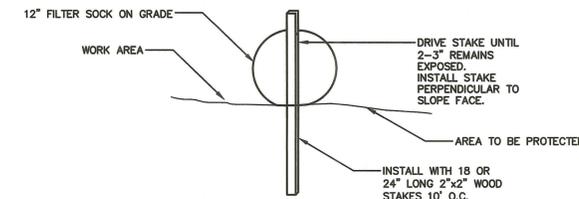


**NOTES:**

1. ALL DIMENSIONS ARE MINIMUM REQUIREMENTS.
2. WHERE SOLID ROCK PREVENTS COMPLIANCE, RACEWAY SHALL BE COVERED BY A MINIMUM OF 2" OF CONCRETE EXTENDING DOWN TO ROCK.
3. MAINTAIN 12" SEPARATION FROM OR OTHER POWER CABLES.

**DIRECT BURIED CABLES**

NOT TO SCALE



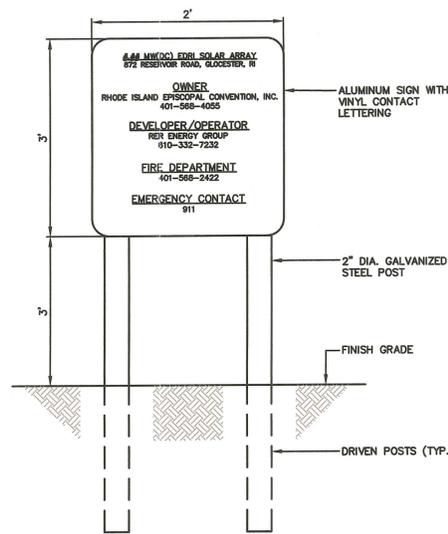
**SECTION VIEW**

**NOTES:**

1. FILTER SOCK SHALL BE 12-INCH FILTREXX SILT SOXX MANUFACTURED BY FILTREXX, OR APPROVED EQUAL.
2. FILTER SOCK SHALL BE INSTALLED AT LOCATIONS AS INDICATED ON THE DRAWINGS.
3. ENDS OF ADJACENT FILTER SOCK SHALL BE TIGHTLY BUTTED OR OVERLAPPED 18" MINIMUM SO THAT NO OPENING EXISTS FOR WATER TO PASS THROUGH. FILTER SOCK SHALL BE FREE OF DAMAGE OR DEFECTS WHEN DELIVERED TO THE SHIPPER. NO VEHICLES SHALL BE DRIVEN OVER WATTLES.
4. FILTER SOCK SHALL BE PERMANENTLY INSTALLED AND LEFT IN PLACE AT THE COMPLETION OF CONSTRUCTION. DAMAGED FILTER SOCKS SHALL BE REPLACED BY OWNER AND OPERATOR AS NECESSARY.

**FILTER SOCK**

NOT TO SCALE



**SITE SIGN**

NOT TO SCALE

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*Shawn M. Martin*

RI Environmental Management  
FEB 08 2023  
Office of Water Resources

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DETAILS

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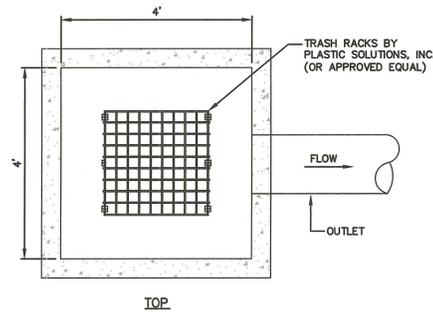
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RHODE ISLAND

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DATE: SEPT. 30, 2022

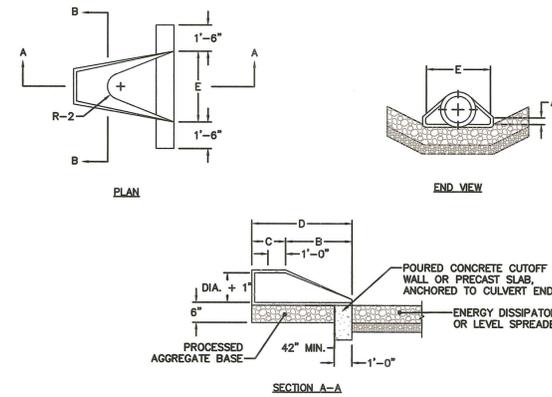
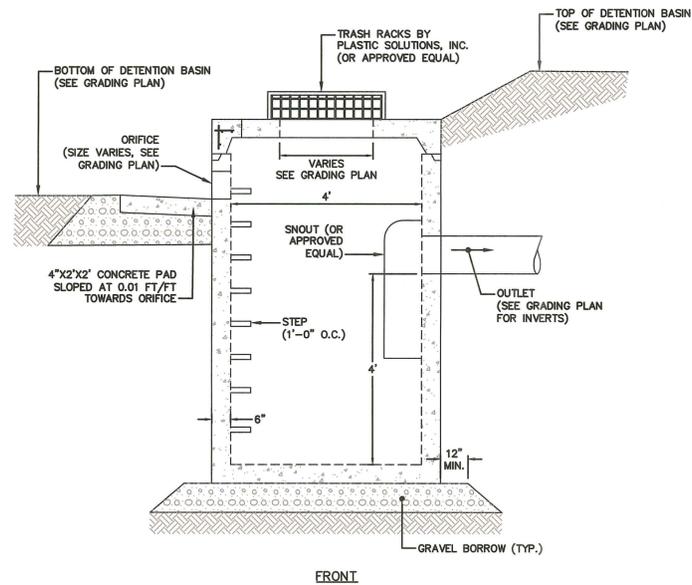
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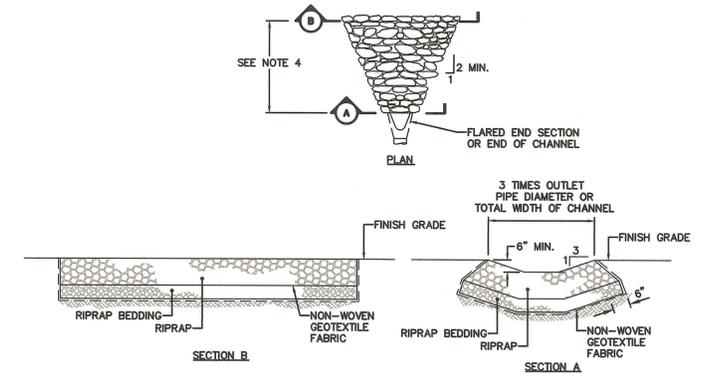


**NOTES:**

1. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ.IN./LIN.FT. (BOTH WAYS).
2. CONCRETE SHALL BE COMPRESSIVE STRENGTH 4000 PSI.
3. STRUCTURE DESIGN SHALL CONFORM TO ASTM C-478 FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS."
4. ONE POUR MONOLITHIC BASE SECTION.
5. IF DEPTH INSIDE STRUCTURE EXCEEDS 4'-6", STRUCTURE STEPS SHALL BE STEEL-REINFORCED WITH A PLASTIC COATING CONFORMING TO ASTM D4101, COPOLYMER POLYPROPYLENE.
6. SECTION JOINTS SHALL BE BUTYL RUBBER PER ASTM C-443 AND FEDERAL SPECIFICATION SS-S-210A.
7. WATERTIGHT SEAL AT PIPE CONNECTIONS SHALL BE MADE WITH RUBBER MANHOLE BOOT.



| DIMENSIONS |    |       |           |           |       |
|------------|----|-------|-----------|-----------|-------|
| DIA.       | A  | B     | C         | D         | E     |
| 12"        | 4" | 2'-0" | 4'-0 7/8" | 6'-0 7/8" | 2'-0" |
| 18"        | 9" | 2'-3" | 13'-10"   | 6'-1"     | 3'-0" |



**NOTES:**

1. RIPRAP SHALL BE PLACED ON 6-INCH THICK LAYER OF RIPRAP BEDDING. RIPRAP BEDDING SHALL CONFORM TO NSA No. FS-2 GRADATION.
  2. RIPRAP THICKNESS SHALL BE 1.5 TIMES THE MAXIMUM STONE DIAMETER.
  3. RIPRAP SHALL CONFORM TO RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION M2.10, AND THE FOLLOWING GRADATION.
- | DISSIPATOR No. | NSA No. | D50 STONE SIZE |
|----------------|---------|----------------|
| ALL            | R-4     | 7"             |
4. APRON LENGTH SHALL CONFORM TO THE FOLLOWING.
- | DISSIPATOR No. | APRON LENGTH |
|----------------|--------------|
| 1A             | 19.75'       |
| 2A             | 20.33'       |
| 2B             | 28.83'       |
| 2C             | 14.73'       |
| 2D             | 20.70'       |
5. DIMENSIONS MAY BE MODIFIED BY ENGINEER TO MEET FIELD CONDITIONS.
  6. UNLESS OTHERWISE SPECIFIED, RIPRAP SHALL BE PLACED.

**OUTLET CONTROL STRUCTURE (OCS)**

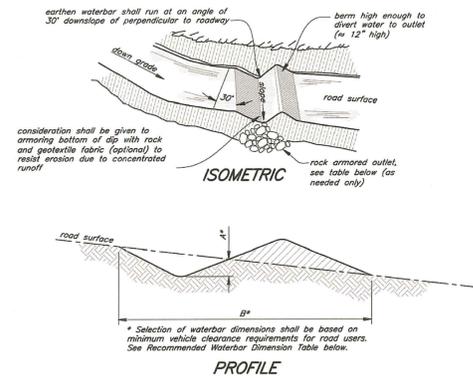
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**FLARED END SECTION (FES)**

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**ENERGY DISSIPATOR**

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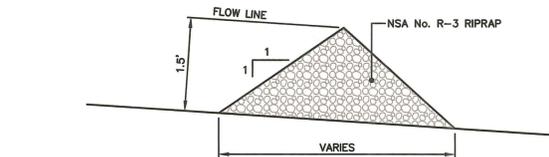
| DIMENSIONS |           |
|------------|-----------|
| A          | 8" TO 12" |
| B          | 6" TO 12" |

**NOTES:**

1. INSTALL WATERBARS AT 200' MAXIMUM SPACING FOR LENGTHS OF STONE ACCESS ROAD IN EXCESS OF 10-PERCENT SLOPE.
2. ARMOR ROCK SHALL BE 12" THICK NSA R-3 (D50=6") STONE INSTALLED WITH FS-2 FILTER STONE BASE. ROCK ARMORED OUTLET SHALL BE EXTENDED 5' BEYOND FILL SLOPES.

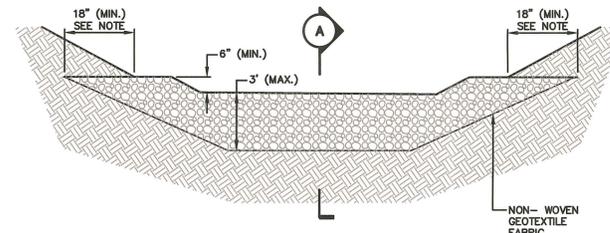
**WATERBAR**

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**(A) STONE CHECK DAM CROSS SECTION**

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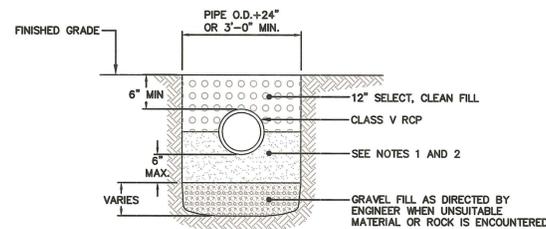


**NOTES:**

1. INSTALL STONE CHECK DAMS AT 50-FOOT INTERVALS ALONG CONVEYANCE SWALES WITH LONGITUDINAL SLOPE GREATER THEN 5%.
2. KEY STONE INTO THE DITCH BANKS AND EXTEND INTO THE ABUTMENTS A MINIMUM OF 10' TO PREVENT FLOW FROM FLANKING THE CHECK DAM.

**STONE CHECK DAM**

NOT TO SCALE



**NOTES:**

1. BEDDING MATERIAL SHALL BE CONTROLLED-LOW STRENGTH MATERIAL WHEN INSTALLED THROUGH EMBANKMENTS AND FOR CULVERTS.
2. BEDDING MATERIAL SHALL BE 3/4" CRUSHED STONE FOR ALL OTHER PIPE SECTIONS.

**RCP TRENCH**

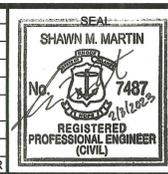
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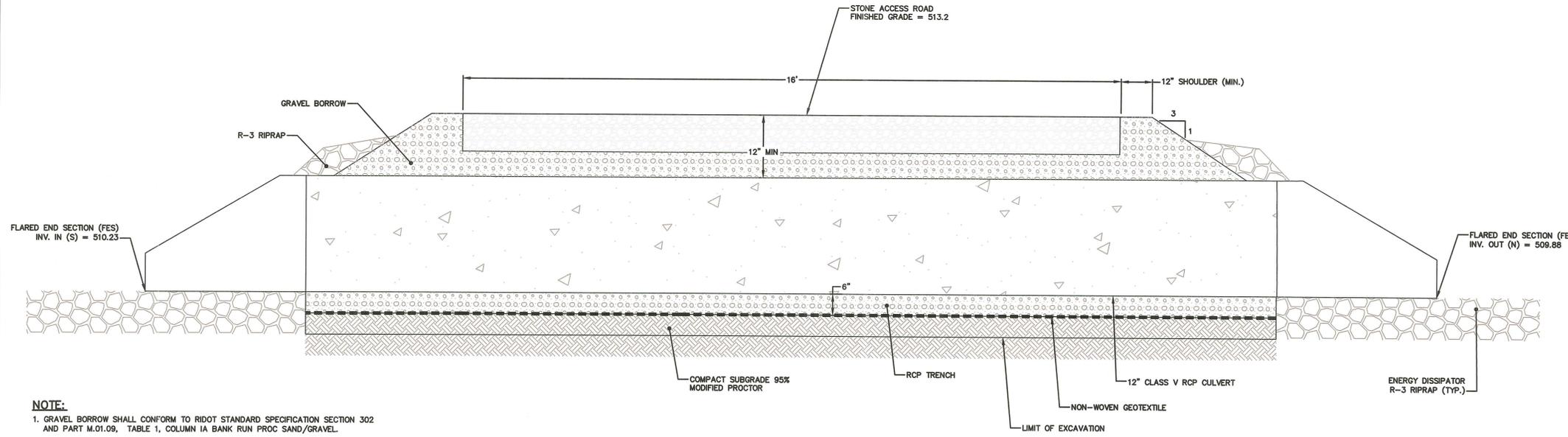
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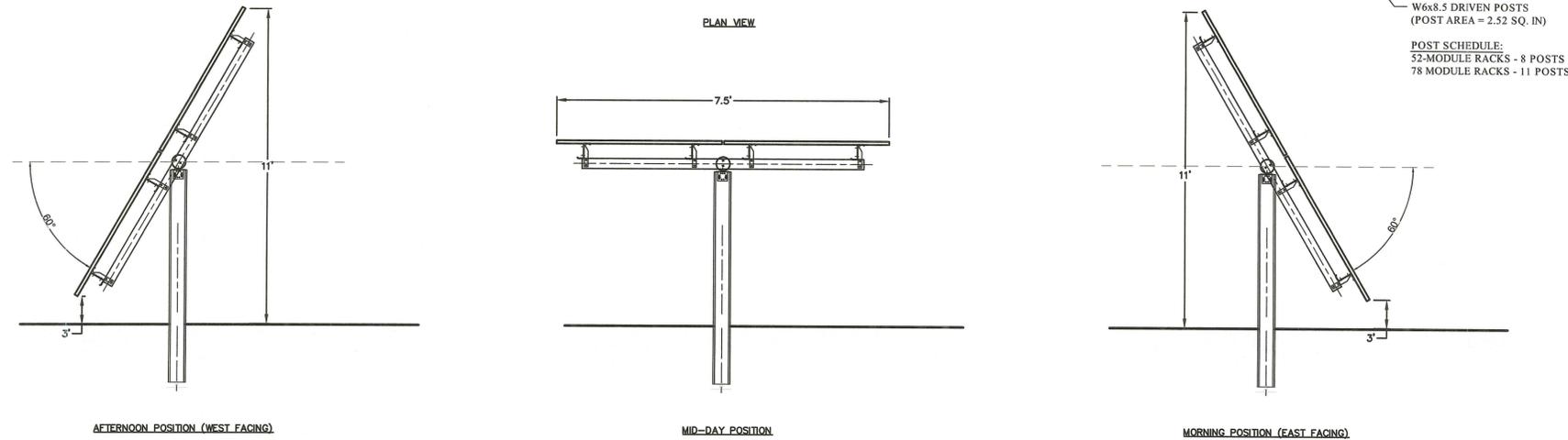
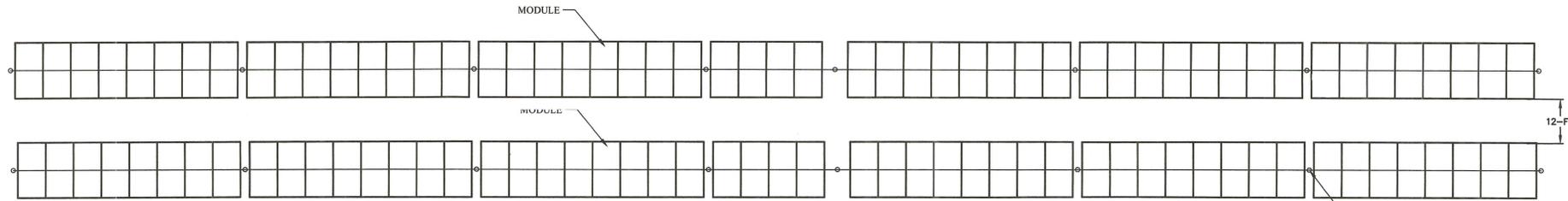
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**NOTE:**  
 1. GRAVEL BORROW SHALL CONFORM TO RIDOT STANDARD SPECIFICATION SECTION 302 AND PART M.01.09, TABLE 1, COLUMN 1A BANK RUN PROC SAND/GRAVEL.

**CULVERT**  
 NOT TO SCALE



**NOTE:**  
 1. AREAS BENEATH AND BETWEEN SOLAR PANEL ROWS SHALL HAVE 6 INCHES OF LOAM AND SEED.

**SOLAR PANEL RACKING**  
 NOT TO SCALE

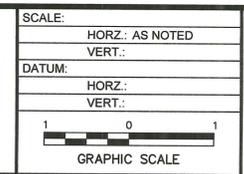
- CULVERT REPLACEMENT NOTES:**
1. DELINEATE LIMITS OF CLEARING ZONES AND PLANT MATERIAL TO REMAIN. CLEARING LIMITS AND PLANT MATERIAL TO REMAIN SHALL BE APPROVED BY WETLAND SCIENTIST.
  2. INSTALL EROSION AND SEDIMENTATION CONTROLS FOR WETLAND CROSSING AS SHOWN ON PLANS.
  3. INSTALL SANDBAG AND POLYMER DIKE/COFFERDAM ON BOTH SIDES OF EXISTING CULVERT.
  4. INSTALL WORK ZONE DEWATERING SYSTEM. ENSURE THAT DEWATERING DISCHARGES ARE DIRECTED TO A STABILIZED SEDIMENT BASIN. MAINTAIN THE DEWATERING SYSTEM AS NEEDED TO ENSURE THAT WORK OCCURS IN DRY CONDITIONS.
  - 4.1. DISCHARGING GROUNDWATER OR ACCUMULATED STORMWATER THAT IS REMOVED FROM EXCAVATIONS, TRENCHES, FOUNDATIONS, VAULTS, OR OTHER SIMILAR POINTS OF ACCUMULATION, IS PROHIBITED UNLESS SUCH WATERS ARE FIRST EFFECTIVELY MANAGED BY APPROPRIATE CONTROL MEASURES. DO NOT DISCHARGE VISIBLE FLOATING SOLIDS OR FOAM.
  - 4.2. TO THE EXTENT FEASIBLE, UTILIZE VEGETATED, UPLAND AREAS OF THE SITE TO INFILTRATE DEWATERING FLUIDS BEFORE DISCHARGE. SUITABLE ON-SITE SOILS ARE CLASSIFIED AS BEING HYDROLOGIC SOIL GROUPS (HSG) A AND B OR THAT HAVE BEEN IDENTIFIED BY A SOIL EVALUATION AS HSG A AND B.
  - 4.3. AT ALL POINTS WHERE DEWATERING FLUIDS ARE DISCHARGED UTILIZE VELOCITY DISSIPATION DEVICES SUCH AS THOSE SPECIFIED IN SECTION FIVE: RUNOFF CONTROL MEASURES OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.
  - 4.4. REPLACE AND CLEAN THE FILTER MEDIA USED IN DEWATERING DEVICES WHEN THE PRESSURE DIFFERENTIAL EQUALS OR EXCEEDS THE MANUFACTURER'S SPECIFICATIONS.
  - 4.5. DEWATERING CONTROL MEASURES MUST BE IMPLEMENTED IN ACCORDANCE WITH MEASURES DEFINED WITHIN CONTAINMENT AREA FOR EARTH MATERIALS; PORTABLE SEDIMENT TANKS AND BAGS; PUMPING SETTLING BASINS; AND PUMP INTAKE PROTECTION SECTIONS OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK.
  - 4.6. TREATMENT CHEMICAL RESTRICTIONS: IF THE OWNER AND/OR THE OPERATOR PLANS TO UTILIZE POLYMERS, FLOCCULANTS, OR OTHER TREATMENT CHEMICALS TO TREAT DEWATERING FLUIDS, THE USE OF SUCH CHEMICALS MUST BE MANAGED IN ACCORDANCE WITH RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, APPENDIX J, CHEMICAL TREATMENT FOR EROSION AND SEDIMENT CONTROL.
  - 4.7. THE DEWATERING OF CONTAMINATED WATER CANNOT BE DISCHARGED WITHOUT PRIOR NOTICE AND A SPECIFIC PERMIT FROM THE RIDEM RIPDES PERMITTING PROGRAM.
  5. REMOVE EXISTING DIRT CART PATH AND EXCAVATE TO SUBGRADE AFTER REMOVING AND DISPOSING EXISTING 12" CMP CULVERT.
  6. STOCKPILE NATIVE MATERIALS (E.G. BOULDERS, ORGANIC SOIL) THAT ARE REMOVED AT UPSTREAM AND DOWNSTREAM ENDS OF EXISTING CULVERT FOR REUSE AS CULVERT FILL. COORDINATE STOCKPILE LOCATION WITH THE ENGINEER AND PROVIDE APPROPRIATE EROSION AND SEDIMENTATION CONTROL BMPs AROUND THE STOCKPILE AREA.
  7. PREPARE SUBGRADE AND GRAVEL BORROW BASE AND INSTALL CULVERT.
  8. INSTALL 12" RCP CULVERT WITH FLARED END SECTIONS MAINTAINING INVERT ELEVATIONS OF EXISTING CROSSING.
  9. PREPARE SUBGRADE AND INSTALL RIP RAP AT INLET AND OUTLET OF CULVERT.
  10. COMMENCE BACKFILLING CULVERT.
  11. PERMANENTLY STABILIZE EMBANKMENT SLOPES WITH RIPRAP, EARTHEN BANK, AND COIR ROLLS. BANKS WILL BE SEED WITH CONSERVATION SEED MIX (NEW ENGLAND WETLAND PLANTS, INC., NEW ENGLAND CONSERVATION/WILDLIFE MIX, OR EQUIVALENT) AT A RATE OF 1 LB PER 1,750 SF AND LIGHTLY RAKE TO INSURE SEED-TO-SOIL CONTACT.
  - 11.1. APPLY A LIGHT MULCH OF CLEAN WEED FREE STRAW.
  12. COMMENCE REMOVAL OF DEWATERING SYSTEM.
  13. STABILIZE ANY REMAINING DISTURBED LOCATIONS WITHIN THE WORK AREA.
  14. COMPLETE INSTALLATION OF STONE ACCESS ROAD GRAVELS AND REINFORCEMENT OVER STREAM CROSSING WORK AREA.
  15. COMPLETE PERMANENT STABILIZATION ON ALL AREAS DISTURBED BY CONSTRUCTION. ALL AREAS NOT RECEIVING STRUCTURAL STABILIZATION MEASURES SHALL BE PERMANENTLY STABILIZED WITH LOAM, SEED, AND MULCH. EROSION CONTROL BLANKETS MAY ALSO BE REQUIRED DEPENDING ON TIME OF YEAR AND SITE CONDITIONS.
  16. REMOVE EROSION CONTROL BARRIERS UPON STABILIZATION OF SLOPES.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
 OFFICE OF WATER RESOURCES  
 FRESHWATER WETLANDS PROGRAM  
 APPROVED WITH CONDITIONS AS  
 SPECIFIED IN THE LETTER OF APPROVAL  
 DATED: AUG 25 2023 FILE # 22-0051  
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL  
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE  
 [Signature]  
 FEB 08 2023  
 Office of Water Resources

| No. | DATE      | DESCRIPTION                                     | DESIGNER        | REVIEWER |
|-----|-----------|---|-----------------|----------|
| 7.  | 2/3/2023  | ISSUED FOR PUBLIC COMMENT                       | LAM             | AGG      |
| 6.  | 12/2/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE         | AGG/SMM  |
| 5.  | 10/3/2022 | RIDEM RESPONSE TO APPLICATION TO ALTER COMMENTS | AFJ/GEE         | AGG/SMM  |
| 4.  | 9/27/2022 | ISSUED FOR BUDGETARY PRICING                    | AFJ/GEE         | AGG/SMM  |
| 3.  | 6/13/2022 | RIDEM RESPONSE TO COMMENTS                      | AFJ/GEE/<br>EKO | AGG/SMM  |
| 2.  | 5/4/2022  | ISSUED FOR RER COORDINATION                     | AFJ/GEE         | AGG/SMM  |
| 1.  | 1/19/2022 | ISSUED FOR RIDEM PERMITTING                     | AFJ/GEE         | AGG/SMM  |



SEAL



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 DETAILS  
 EDRI CONVENTION CENTER PV ARRAY  
 GLOCESTER RHODE ISLAND

PROJ. No.: 20171012.A20  
 DATE: SEPT. 30, 2022  
**CD-506**  
 SHEET 18 OF 18