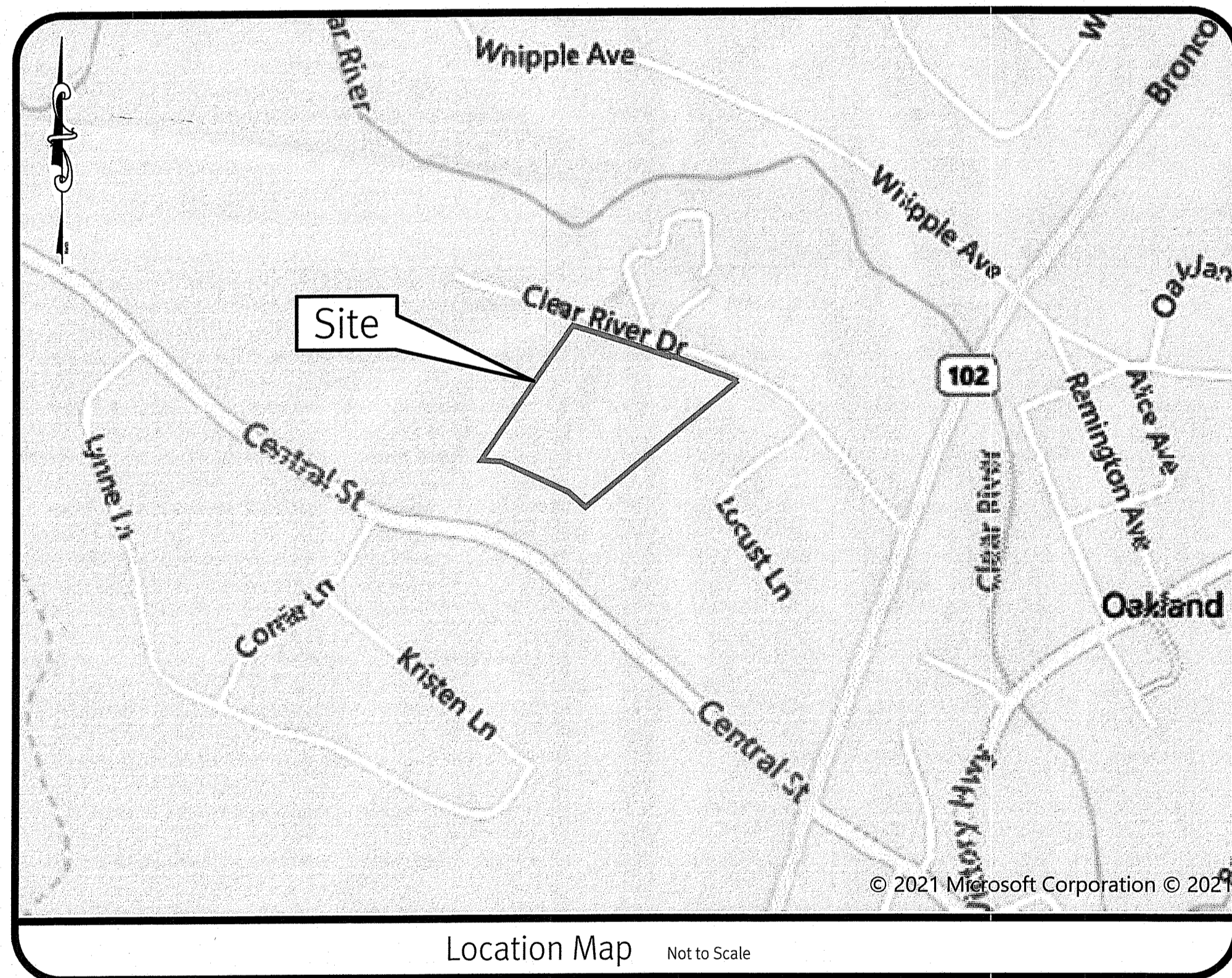


RIDEM Preliminary Determination Submission

Saint John Solar

138 Clear River Drive
Burrillville, RI

Assessor's Plat 178 Lot 13



Sheet List Table

- 1 Cover Sheet
- 2 Half Mile Radius & USGS Map
- 3 General Notes and Legend
- 4 Boundary Survey
- 5 Existing Analysis Plan
- 6 Soil Erosion & Sediment Control Plan
- 7 Site Development Plan
- 8 Pond Details
- 9 Details

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 17 2021 FILE # 21-0001
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin A. Semack

Environmental Management
SEP 14 2021
Office of Water Resources

SESC / O&M
The Soil Erosion and Sediment Control Plan (SESC) and Stormwater Operation and Maintenance Plan (O&M) are required documents with this plan set and must be maintained by the contractor and owner on site.

DiPrete Engineering

Two Stafford Court Cranston, RI 02920
tel 401-943-1000 fax 401-464-6006 www.diprete-eng.com

Boston • Providence • Newport

KEVIN DEMERS
REGISTERED PROFESSIONAL ENGINEER
CIVIL

This plan set must not be used for construction purposes unless stamped 'Issued for Construction' and stamped by a registered Professional Engineer of DiPrete Engineering.

DiPrete Engineering only warrants plans on a DiPrete Engineering Professional Engineer Preliminary Determination Submission. DiPrete Engineering does not warrant plans by any other party.

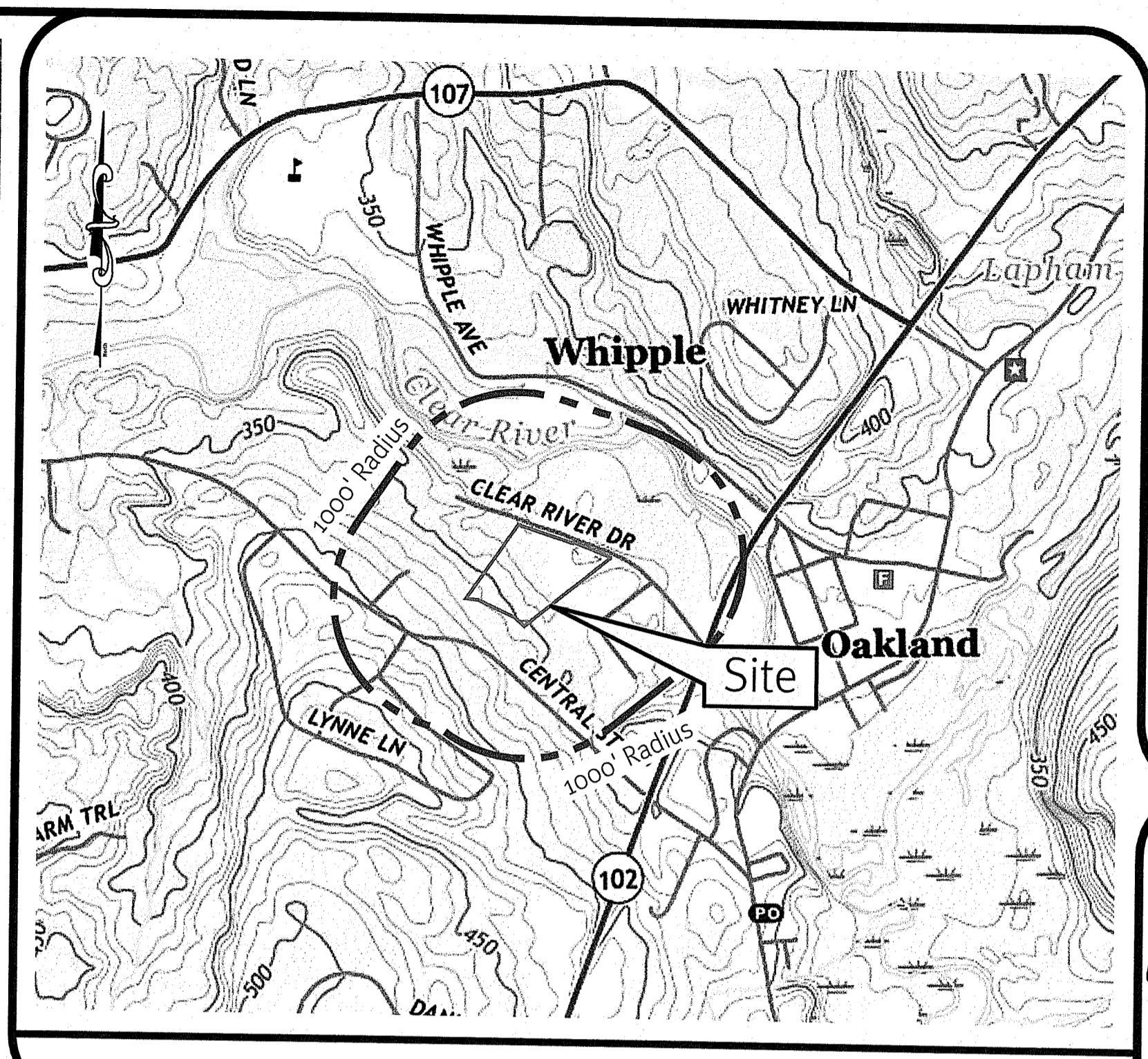
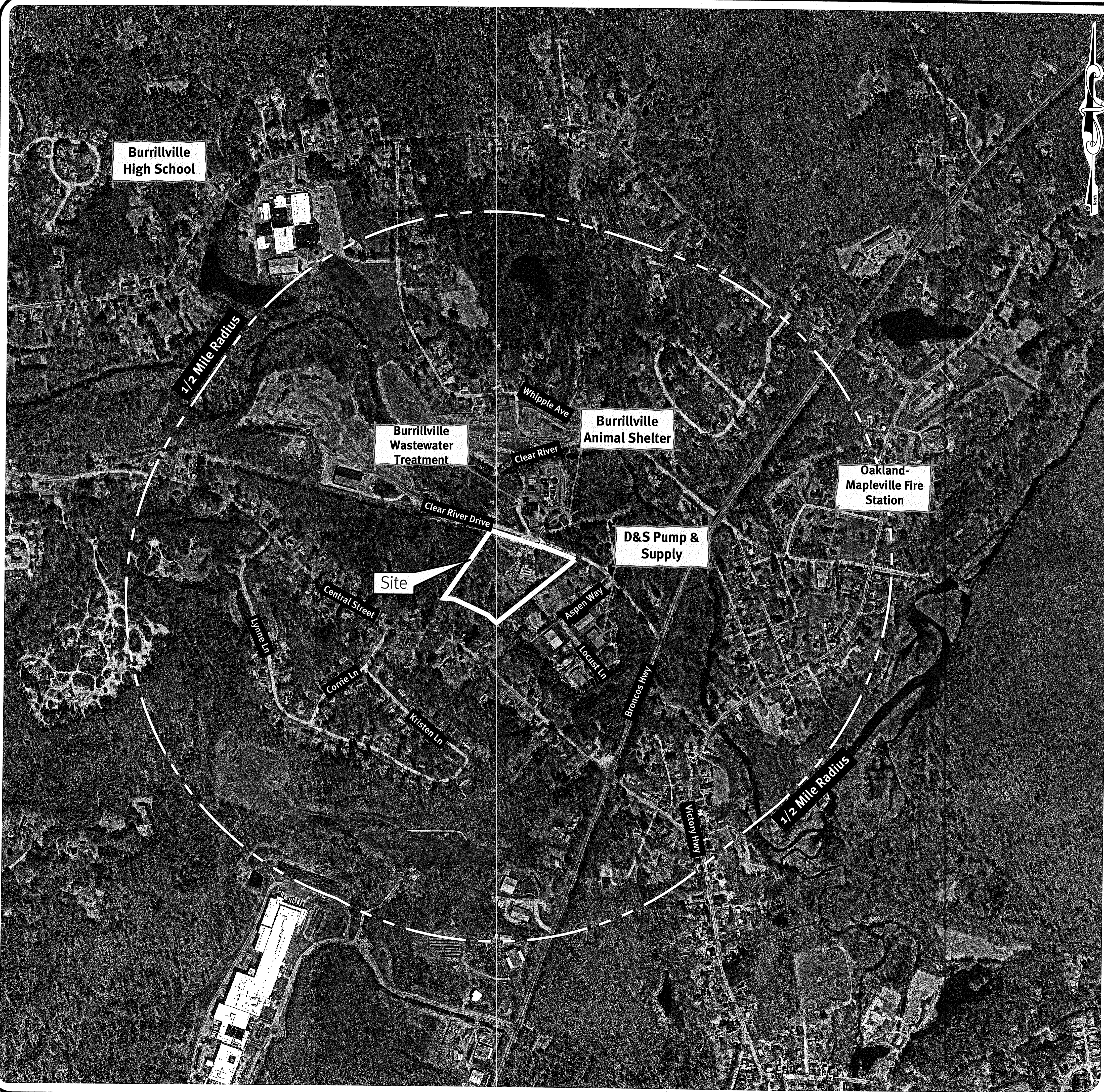
The contractor is responsible for all of the means, methods, safety precautions and requirements, and O&M conformance in the implementation of this plan and design.

Existing utilities shown on this plan are approximate only. DiPrete Engineering does not warrant the accuracy of these utilities due to locations of existing utilities. See 'Utility Note' on Sheet 2.

No.	Date	Description	By
1	09/17/2021	SESC Preliminary Determination Submission	BE
2	09/17/2021	RIDEM Preliminary Determination Submission	BE
3	09/17/2021	RIDEM Preliminary Determination Submission	SDM

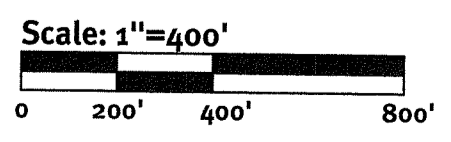
Cover Sheet
Saint John Solar
Burrillville, Rhode Island
AP 178 Lot 13
Applicant
Woonsocket Consumers Coal
139 Hamlet Avenue, Woonsocket, RI 02895
tel (401) 762-5461

z:\demain\projects\2727-005 clear river solar\hatched drawings\2727-005 covr.dwg Plotdate: 4/27/2021



USGS Map Scale: 1"=1000'
 Environmental Management
 SEP 14 2021
 Office of Water Resources
 Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

Photo Obtained from Nearmap.com. Date of Photography 03/21/2020.



DiPrete Engineering
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KEVIN DEMERS
 REGISTERED PROFESSIONAL ENGINEER CIVIL

This plan set must not be used for construction purposes unless prepared for construction and stamped by a registered Professional Engineer of DiPrete Engineering.
 Only the contractor is responsible for obtaining all necessary permits and for the safety of the construction. DiPrete Engineering does not warrant plans by any other party.
 The contractor is responsible for all of the means, methods, safety, and implementation of this plan and design.
 Existing utilities shown on this plan are for information only. DiPrete Engineering assumes no responsibility for damages caused due to locations of existing utilities. See Utility Note on Sheet 3.

No.	Date	Description	By
1	05/07/2021	Final Design	JD
2	08/10/2021	Final Design	JD
3	09/14/2021	Final Design	JD

Drawn By: SCM Design By: JD

Half Mile Radius & USGS Map
Saint John Solar
 Burrillville, Rhode Island
 AP 178 Lot 13
 Applicant
Woonsocket Consumers Coal
 139 Hamer Avenue, Woonsocket, RI 02895
 tel (401) 765-5461
 DE Job No: 2727-005 Copyright 2020 by DiPrete Engineering Associates, Inc.

General Notes:

- 1. THE SITE IS LOCATED ON THE TOWN OF BURRILLVILLE ASSESSOR'S PLAT 178 LOT 13.
2. THE SITE IS APPROXIMATELY 9.71 ACRES AND IS ZONED G1.
3. THE OWNER OF AP 178 LOT 13 IS: WOOSOCKET CONSUMERS COAL CO INC.
4. THIS SITE IS LOCATED IN FEMA FLOOD ZONE X. REFERENCE FEMA FLOOD INSURANCE RATE MAP 44070135G, MAP REVISED MARCH 2, 2009.
5. THIS PLAN IS SUBSTANTIALLY CORRECT IN ACCORDANCE WITH A CLASS IV STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
6. THE BOUNDARY LINE AS SHOWN ON THIS PLAN DEPICTS THE RESULTS OF A CLASS I BOUNDARY RETRACEMENT SURVEY AS PERFORMED BY DIPRETE ENGINEERING ASSOCIATES, INC.
7. CONTOUR DATA SHOWN ON THIS PLAN CONFORMS TO A T-4 TOPOGRAPHICAL SURVEY STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.
8. ALL WORK PERFORMED HEREIN IS TO BE GOVERNED BY CURRENT EDITIONS OF THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
9. THE SITE IS WITHIN A: GROUNDWATER RECHARGE AREA
10. THE SITE LIES WITHIN THE ROUTE 102 DEVELOPMENT MANAGEMENT DISTRICT.
11. THE CLEAR RIVER (RIDEM WATERBODY ID# RI0001002R-050) WATER QUALITY CLASSIFICATION IS: B.
12. THERE WERE NO STONE WALLS OR LEDGE OUTCROPS VISIBLE.
13. GAS / WATER / SEWER / TELEPHONE / CABLE UTILITIES INFORMATION IS NOT APPLICABLE TO THIS PROJECT AND IS NOT PROVIDED.
14. NO SEWER OR WATER SERVICE IS PROPOSED.
15. THERE WERE NO ARCHEOLOGICAL SITES OBSERVED WITHIN THE LIMITS OF THE PROJECT.
16. THERE ARE NO BOAT LAUNCHES OR PUBLIC FISHING AREAS WITHIN THE LIMITS OF, OR CLOSELY ADJACENT TO, THE SITE.
17. THE FOLLOWING DOCUMENTS ARE CONSIDERED PART OF THE PROJECT PLANS AND THE CONTRACTOR/ OWNER MUST MAINTAIN THESE DOCUMENTS AS PART OF A FULL PLAN SET:
18. THE DRAINAGE SYSTEM IS DESIGNED TO MEET THE TOWN OF BURRILLVILLE'S SUBDIVISION AND LAND DEVELOPMENT REGULATIONS WITH THE USE OF SWALES AND INFILTRATION BASIN.
19. THE SITE IS PROPOSED TO BE BUILT IN ONE PHASE.
20. TEST PITS AND SOIL EVALUATIONS WERE COMPLETED BY DIPRETE ENGINEERING ON NOVEMBER 23, 2020.
21. ANY PROPRIETARY PRODUCTS REFERENCED IN THIS PLAN SET ARE REPRESENTATIVE OF THE MINIMUM DESIGN REQUIREMENTS FOR THE PURPOSE IT PROPOSES TO SERVE.
22. THIS PLAN SET MAY REFERENCE AND/OR INCLUDE REPRODUCTIONS OF PROPRIETARY PRODUCTS/DETAILS BY OTHERS, AND/OR THEIR ASSOCIATED SPECIFICATIONS.
23. NO WELLS WERE IDENTIFIED AS BEING WITHIN 400 FEET OF THE PROPOSED SOLAR ARRAY FIELD.
24. NO AREAS OF FUTURE CLEARING WERE IDENTIFIED. ALL CLEARING ASSOCIATED WITH THE SOLAR ARRAY IS SHOWN PER THE LIMIT OF DISTURBANCE WITHIN THIS PLAN SET.

Soil Erosion and Sedimentation Control Notes:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL ON SITE WHICH MUST BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS AND AUTHORITY HAVING JURISDICTION.
2. ALL EROSION CONTROL, TEMPORARY SWALES, TEMPORARY SEDIMENT TRAPS, ETC. MUST BE INSTALLED PER THE RHODE ISLAND SOIL EROSION AND SEDIMENTATION CONTROL LATEST EDITION AND THE SOIL EROSION AND SEDIMENT CONTROL PLAN (SESC).
3. TEMPORARY SWALES MUST BE USED TO CONTROL RUNOFF DURING CONSTRUCTION. TEMPORARY SWALES MUST BE VEGETATED AFTER CONSTRUCTION.
4. ONCE THE SEDIMENT TRAPS ARE NO LONGER REQUIRED AND ALL TRIBUTARY AREAS HAVE BEEN STABILIZED, THE TEMPORARY SEDIMENTATION BASIN MUST BE CLEANED AND BROUGHT TO FINAL DESIGN GRADES.
5. FOR SEQUENCE OF CONSTRUCTION, PROJECT PHASING AND CONSTRUCTION PHASING SEE SESC PLAN.
6. CONTRACTOR MAY MODIFY SEQUENCE OF CONSTRUCTION WITH APPROVAL FROM DESIGN ENGINEER AND OWNER.
7. IF CONCRETE TRUCKS ARE WASHED OUT ON SITE, ALL WASHOUT MUST BE COMPLETED IN THE DESIGNATED CONCRETE WASHOUT AREA.
8. THE USE OF HEAVY EQUIPMENT SHALL BE AVOIDED AS MUCH AS POSSIBLE.
9. SPECIFICALLY, AS PER STORMWATER RULE 250-RIGR-15-10-8-1605, STABILIZATION OF DISTURBED AREAS MUST BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBANCE ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE.
10. STABILIZATION MUST BE COMPLETED USING VEGETATIVE STABILIZATION MEASURES OR USING ALTERNATIVE MEASURES WHENEVER VEGETATIVE MEASURES ARE DEEMED IMPRACTICABLE OR DURING PERIODS OF DROUGHT.
11. MULCH (OR ENGINEER-APPROVED STABILIZATION METHOD) MUST BE PLACED WITHIN 72 HOURS OF FINAL GRADING AND REMAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.

Demolition Notes:

- 1. CONTRACTOR MUST OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.
2. CONTRACTOR MUST PERFORM DAILY SWEEPING AT CONSTRUCTION ENTRANCE DURING DEMOLITION AND CONSTRUCTION TO MINIMIZE SEDIMENTS ON EXTERNAL STREETS.
3. ANY EXISTING BUILDING(S) AND PROPERTY PROPOSED TO REMAIN WHICH ARE DAMAGED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (RAD) ALL MATERIALS INDICATED ON THE PLANS UNLESS SPECIFIED OTHERWISE HERE IN.
5. IN ADDITION TO THESE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, ALL DISTURBED AREAS INCLUDING THE CONTRACTOR'S STOCKPILE AND STAGING AREAS WITHIN THE LIMIT OF WORK MUST BE RESTORED TO MATCH THE DESIGN PLANS.
6. CONTRACTOR MUST DOCUMENT LOCATION OF ALL SUBSURFACE UTILITIES REMAINING IN PLACE AFTER DEMOLITION (ACTIVE AND INACTIVE/ABANDONED).
7. CONTRACTOR MUST OBTAIN ALL FEDERAL, STATE, AND MUNICIPAL APPROVALS PRIOR TO THE START OF CONSTRUCTION.

Traffic Notes:

- 1. ALL TRAFFIC CONTROL MUST CONFORM TO THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
2. DURING CONSTRUCTION, TRAFFIC CONES ARE TO BE USED FOR SEPARATION OF ACTIVE TRAFFIC FROM WORK ZONE PER MUTCD REQUIREMENTS.
3. DURING CONSTRUCTION FLAGGERS MUST BE EMPLOYED TO ENSURE SAFETY FOR INTERACTION OF CONSTRUCTION VEHICLES AND ACTIVE TRAFFIC.
4. ALL SIGNS, FLAGGERS, TRAFFIC CONTROL DEVICES, AND TEMPORARY TRAFFIC ZONE ACTIVITIES MUST MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC (MUTCD) LATEST EDITION AND SUBSEQUENT ADDENDA.
5. TEMPORARY CONSTRUCTION SIGNS MUST BE MOUNTED ON RIDOT APPROVED SUPPORTS AND MUST BE REMOVED OR COVERED WHEN NOT APPLICABLE.

Layout and Materials:

- 1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS.
2. SEE SOLAR DESIGN DRAWINGS FOR EXACT SOLAR STRUCTURE DIMENSIONS AND DETAILS.
3. PROPOSED BOUNDS AND ANY EXISTING PROPERTY LINE MONUMENTATION DISTURBED DURING CONSTRUCTION MUST BE SET OR RESET BY A RHODE ISLAND PROFESSIONAL LICENSED SURVEYOR.
4. CONTRACTOR MUST NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, AND DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS.
5. ALL LIMESTONE, FERTILIZER, PESTICIDES AND/OR HERBICIDES THAT ARE APPLIED TO ESTABLISH VEGETATIVE COVER MUST BE APPLIED IN CONCENTRATIONS AND AT NO GREATER AN APPLICATION RATE OR FREQUENCY THAN ALLOWED BY THE RHODE ISLAND GENERAL LAWS, LATEST REVISION.
6. CONTRACTOR MUST VERIFY LOCATION OF PROJECT FEATURES IN ACCORDANCE WITH THE STAMPED PAPER COPIES OF THE PLANS AND SPECIFICATIONS WHICH ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.

Grading and Utility Notes:

- 1. CONSTRUCTION TO COMMENCE SUMMER 2021 OR UPON RECEIPT OF ALL NECESSARY APPROVALS.
2. THE CONTRACTOR MUST COORDINATE WITH ALL OF THE APPROPRIATE UTILITY COMPANIES FOR AGREEMENTS TO SERVICE THE SITE.
3. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING FINISH GRADING AND DRAINAGE AROUND THE STRUCTURES TO ENSURE SURFACE WATER AND/OR GROUNDWATER ARE DIRECTED AWAY FROM THE STRUCTURES.
4. PRIOR TO START OF CONSTRUCTION, CONTRACTOR MUST VERIFY EXISTING PAVEMENT ELEVATIONS AT INTERFACE WITH PROPOSED PAVEMENTS, AND EXISTING GROUND ELEVATIONS ADJACENT TO DRAINAGE OUTLETS TO ASSURE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED FACILITIES.
5. ALL PROPOSED UNDERGROUND UTILITIES SERVING THE SITE AND BUILDINGS TO BE COORDINATED WITH OWNER, SOLAR ENGINEER, AND SITE ENGINEER PRIOR TO INSTALLATION.
6. ALL RETAINING WALLS AND STEEP SLOPES ARE SUBJECT TO FINAL STRUCTURAL DESIGN.
7. ALL CUT AND FILL WORK MUST BE DONE UNDER THE DIRECTION OF A RHODE ISLAND PROFESSIONAL GEOTECHNICAL ENGINEER.
8. MATERIAL STOCKPILES MUST NOT BE LOCATED IN THE RIGHT-OF-WAY, AND OPEN TRENCHES MUST NOT BE LEFT OVERNIGHT.
9. ALL LOAM IN DISTURBED AREAS MUST BE STOCKPILED FOR FUTURE USE.
10. ALL EXCESS SOIL, TREES, ROCKS, BouldERS, AND OTHER REFUSE, MUST BE DISCARDED OFF SITE IN AN ACCEPTABLE MANNER AT AN APPROVED LOCATION.
11. NO STUMP DUMPS ARE PROPOSED ON SITE.
12. THE CONTRACTOR SHALL AVOID EXCESSIVE COMPACTION OF THE SOIL COVER, ESPECIALLY THE TOPSOIL.
ELECTRIC:
PROPOSED ELECTRIC UTILITIES ARE SHOWN SCHEMATICALLY AND ARE PROPOSED TO BE PRIMARILY UNDERGROUND.

PROPOSED ELECTRIC UTILITIES ARE SHOWN SCHEMATICALLY AND ARE PROPOSED TO BE PRIMARILY UNDERGROUND. OWNER AND CONTRACTOR MUST COORDINATE FINAL DESIGN WITH APPROPRIATE UTILITY COMPANIES. ALL WORK MUST BE IN ACCORDANCE WITH EACH UTILITY COMPANY'S STANDARDS AND DETAILS, AS WELL AS LOCAL AND FEDERAL REGULATIONS.

Site Lighting:

SITE LIGHTING (TEMPORARY AND PERMANENT) MUST BE DIRECTED AWAY FROM AND SHIELDED FROM ENVIRONMENTALLY SENSITIVE AREAS AND ABUTTING LANDS.

Abbreviations Legend:

Table with 2 columns: Abbreviation and Description. Includes ADA, AHJ, AP, BC, BT, BIT, BIO, BS, BW, CB, CATCH BASIN, CALCULATED, CENTERLINE, CHORD ANGLE, CLDP, CO, CONC, (D), DCB, DCI, DMH, DP, ELEV, EOP, ESC, EX, FES, FFE, GS, HW, HC, HDPE, ID, INV, IP, LF, LOD, LP, (M), N/F, OHW, PE, R, PR, PVC, RADIUS, R&D, RCP, RHHB, RIB, RL, ROW, S, SD, SED, SF, SFL, SFM, SG, SHL, SMH, SNDF, SS, STA, TC, TD, TF, TRANS, TW, TYP, UDS, IN, UIS, UP, WO, WQ.

Existing Legend:

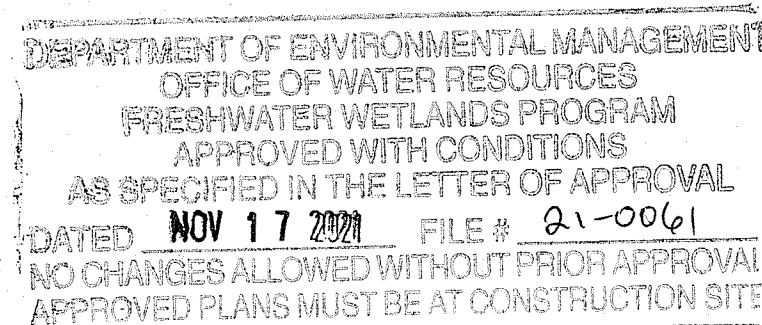
Table with 2 columns: Symbol and Description. Includes PROPERTY LINE, ASSESSORS LINE, BUILDING, BRUSHLINE, GUARDRAIL, FENCE, RETAINING WALL, STONE WALL, MINOR CONTOUR LINE, MAJOR CONTOUR LINE, WATER LINE, SEWER LINE, SEWER FORCE MAIN, GAS LINE, ELECTRIC LINE, OVERHEAD WIRES, DRAINAGE LINE, SOILS LINES, 50' PERIMETER WETLAND, 100' RIVERBANK WETLAND, 200' RIVERBANK WETLAND, FEMA BOUNDARY, STREAM, WETLAND LINE & FLAG, STATE HIGHWAY LINE, STATE FREEWAY LINE.

Proposed Legend:

Table with 2 columns: Symbol and Description. Includes PROPERTY LINE, BUILDING SETBACKS, CHAINLINK FENCE, GUARDRAIL, RETAINING WALL, MINOR CONTOUR LINE, MAJOR CONTOUR LINE, SPOT ELEVATION, EDGE OF PAVEMENT, BITUMINOUS BERM, CONCRETE CURB, BUILDING FOOTPRINT, BUILDING OVERHANG, ASPHALT PAVEMENT, HEAVY DUTY ASPHALT PAVEMENT, HEAVY DUTY CONCRETE, CONCRETE, ASPHALT SIDEWALK, SAWCUT LINE, SIGN, SINGLE LIGHT, DOUBLE LIGHT, OVERHANGING LIGHT, ACCESSIBLE PARKING SPACE SYMBOLS, BUILDING INGRESS/EGRESS, DRAINAGE LINE, PERFORATED SUBDRAIN, SWALE, SEWER FORCE MAIN, GAS LINE, WATER LINE, HYDRANT ASSEMBLY, WATER SHUT OFF, WATER VALVE, THRUST VALVE, SEWER LINE, OVERHEAD WIRE, ELECTRIC, TELEPHONE, CABLE LINE, LIMIT OF DISTURBANCE/LIMIT OF CLEARING, SEDIMENTATION BARRIER, SILT FENCE, COMPOST SOCK OR APPROVED EQUAL, SLOPES STEEPER THAN 3:1 (2:1 OR 1:1 SLOPES), UNDERGROUND INFILTRATION OUTLINE, POND ACCESS, RIPRAP, SAND FILTER, BIO RETENTION, CATCH BASIN, DOUBLE CATCH BASIN, MANHOLE, FLARED END SECTION, HEADWALL.

Utility Note:

ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN WERE PROVIDED BY OTHERS AND ARE APPROXIMATE ONLY. LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATION, BLASTING, UTILITY INSTALLATION, BACKFILLING, GRADING, PAVEMENT RESTORATION, AND ALL OTHER SITE WORK. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THESE DOCUMENTS.



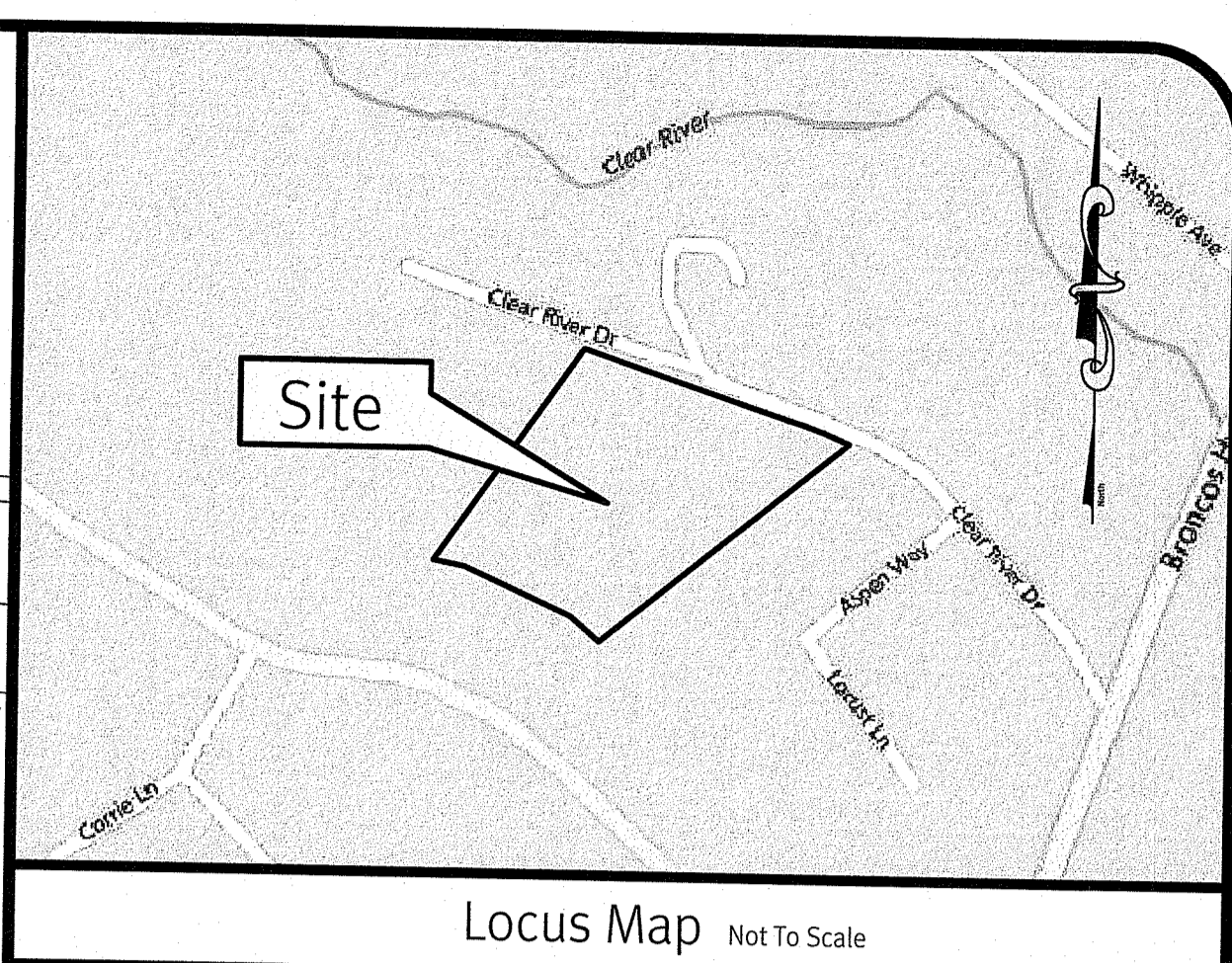
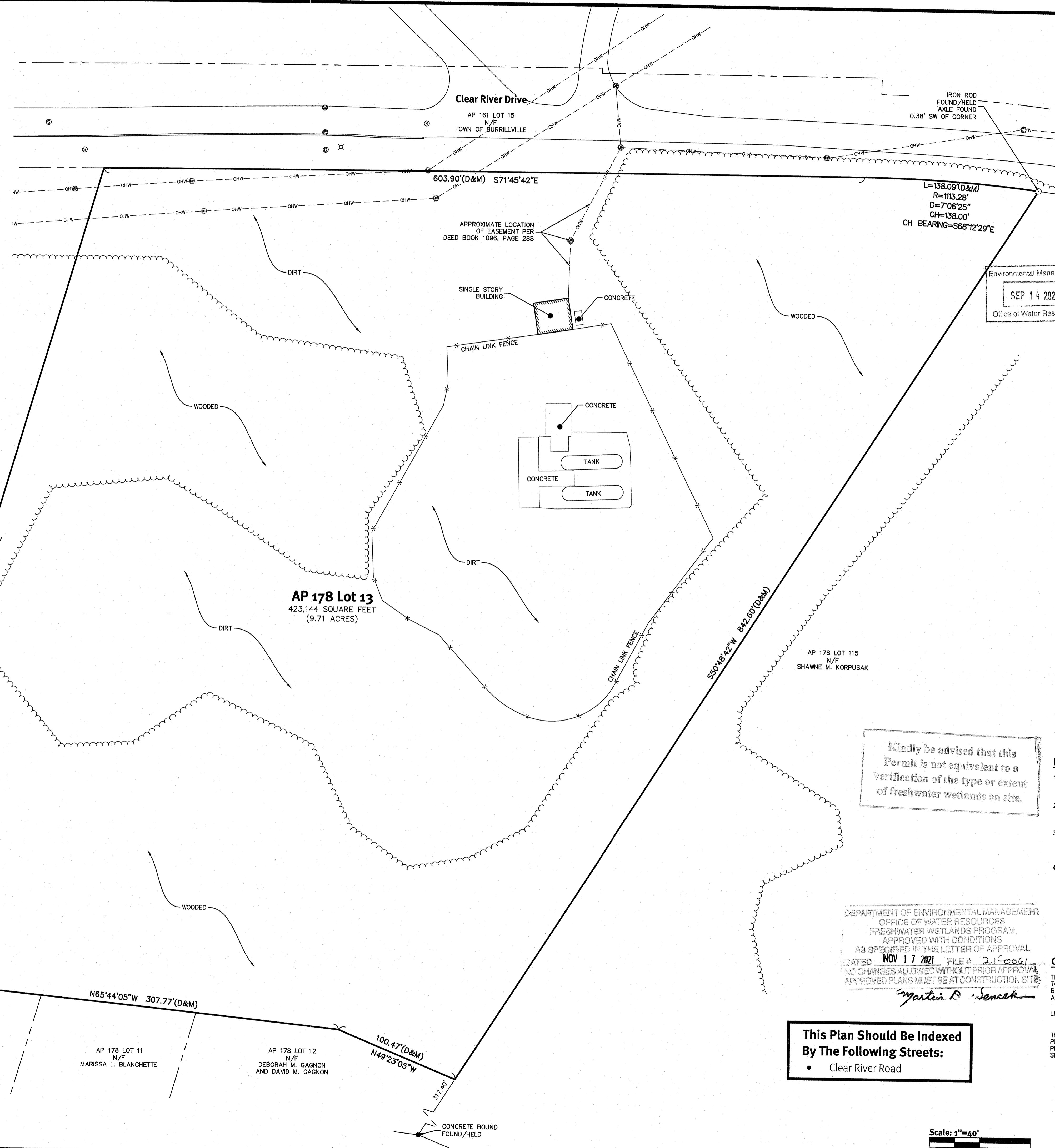
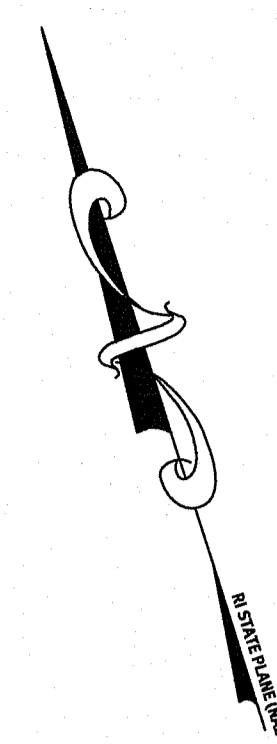
DiPrete Engineering logo and contact information: Two Stafford Court Cranston, RI 02920, tel: 401-943-1000, fax: 401-964-6060, www.diprete-eng.com.

Professional Engineer seal for Kevin Demers, Registered Professional Engineer Civil, No. 055797.

This plan set must not be used for construction purposes unless stamped 'Issued for Construction' and stamped by a registered Professional Engineer of DiPrete Engineering.

Revision table with columns: No., Date, Description, Drawn By, SDM, Design By, JID.

General Notes And Legend, Saint John Solar, Applicant: Woonsocket Consumers Coal, AP 178 Lot 13, Burrillville, Rhode Island.



Legend

NOT ALL ITEMS SHOWN WILL APPEAR ON THE SURVEY

BUILDING	AP	ASSESSOR'S PLAT	N/F (D)	MEASURED	CHORD ANGLE	HANDICAPPED	PROPERTY LINE	ASSESSORS LINE	TREELINE	GUARDRAIL	FENCE	RETAINING WALL	STONE WALL	MINOR CONTOUR LINE	MAJOR CONTOUR LINE	WATER LINE	SEWER LINE	SEWER FORCE MAIN	GAS LINE	ELECTRIC LINE	OVERHEAD WIRES	DRAINAGE LINE	NAIL FOUND/SET	DRILL HOLE FOUND/SET	IRON ROD/PIPE FOUND/SET	BOUND FOUND/SET	SIGN	BOLLARD	SOIL EVALUATION	CATCH BASIN	DOUBLE CATCH BASIN	DRAINAGE MANHOLE	FLARED END SECTION	GUY POLE	ELECTRIC MANHOLE/HANDHOLE	UTILITY/POWER POLE	LIGHTPOST	SEWER/SEPTIC MANHOLE	SEWER VALVE	CLEANOUT	HYDRANT	IRRIGATION VALVE	WATER VALVE	WELL	MONITORING WELL	UNKNOWN MANHOLE	GAS VALVE	WETLAND FLAG	BENCH MARK	SHRUB	TREE
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- General Notes:**
- THE PARCEL IS FOUND ON ASSESSOR'S PLAT 178, LOT 13 IN THE TOWN OF BURRILLVILLE, PROVIDENCE COUNTY, RHODE ISLAND.
 - THE OWNER PER DEED BOOK 1070, PAGE 99 IS WOONSOCKET CONSUMERS COAL CO., INC.
 - BASED ON GRAPHICAL PLOTTING ONLY, THE PARCEL IS LOCATED IN ZONE X PER FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP 44007C0135G, DATED MARCH 2, 2009. THIS DESIGNATION MAY CHANGE BASED UPON REVIEW BY A FLOOD ZONE SPECIALIST OR BY THE RESULTS OF A COMPREHENSIVE FLOOD STUDY.
 - THE PARCEL IS ZONED GI - GENERAL INDUSTRY BASED ON THE TOWN OF BURRILLVILLE, RHODE ISLAND ZONING DISTRICTS MAP. ANY OVERLAY DISTRICTS, SPECIAL PERMITS OR VARIANCES SPECIFIC TO THIS SITE ARE NOT TAKEN INTO CONSIDERATION. PLEASE CONTACT THE ZONING DEPARTMENT FOR ANY ADDITIONAL INFORMATION OR FOR A CERTIFICATE OF ZONING.
 - THERE WERE NO CEMETERIES, GRAVE SITES AND OR BURIAL GROUNDS OBSERVED WITHIN THE LIMITS OF THE SURVEY.
 - FIELD SURVEY PERFORMED BY DIPRETE ENGINEERING ON NOVEMBER 14, 2020. THIS PLAN REFLECTS ON THE GROUND CONDITIONS AS OF THAT DATE.
 - THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. DIPRETE ENGINEERING IS NOT RESPONSIBLE FOR ANY UNKNOWN OR UNRECORDED EASEMENTS, DEEDS OR CLAIMS THAT A TITLE REPORT WOULD DISCLOSE.

- Plan References:**
- PROPERTY OF JOHN F. AND LUCILLE KOPRUSAK AND JOHNS AND NORMA M. KOPRUSAK, BURRILLVILLE, R.I., DATED JUNE 1971, SCALE 1"=80', PLAN BY BIBEAULT ENGINEERING ASSOCIATES, INC., RECORDED IN PLAN BOOK 5, PAGE 28.
 - DIVISION OF LAND OWNED BY RODERIC R. TIMPANY & WALLACE A. DUMAIS JR. & ROGER TURCOTTE, BURRILLVILLE, RHODE ISLAND, DATED DECEMBER 1989, SCALE 1"=80', RECORDED IN PLAN BOOK 20, PAGE 31.
 - PROPOSED RIGHT OF WAY OVER BLOCK 32, LOT 47, OWNED BY THE TOWN OF BURRILLVILLE, FOR BLOCK 32, LOT 126, OWNED BY RODERIC R. TIMPANY, BURRILLVILLE, RHODE ISLAND, DATED JANUARY, 1994, SCALE 1"=100', PLAN BY NATIONAL SURVEYORS-DEVELOPERS, INC., RECORDED IN PLAN BOOK 22, PAGE 32.
 - FINAL MINOR SUBDIVISION, IRENE NOLDA, MAP 178, LOT 9, 450 CENTRAL STREET, BURRILLVILLE, RHODE ISLAND, DATED SEPTEMBER, 2009, SCALE 1"=80', PLAN BY NATIONAL SURVEYORS-DEVELOPERS, INC., RECORDED IN PLAN BOOK 2010, PAGE 8.

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 17 2021 FILE # 21-0061
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin A. Senek

This Plan Should Be Indexed By The Following Streets:

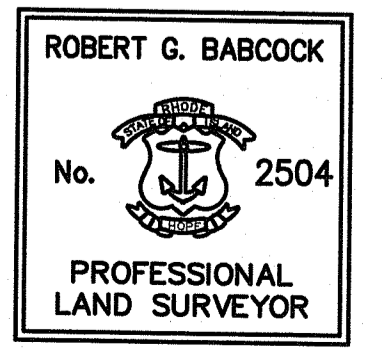
- Clear River Road

Certification:

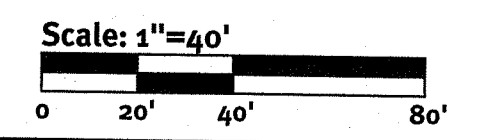
THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO SECTION 9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON NOVEMBER 25, 2015, AS FOLLOWS:

LIMITED CONTENT BOUNDARY SURVEY CLASS 1
PERIMETER SURVEY

THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS:
PERIMETER RETRACEMENT PERFORMED BY DIPRETE ENGINEERING FOR THE PURPOSE OF SITE ENGINEERING AND PERMITTING.



Robert G. Babcock
ROBERT G. BABCOCK, RIPLS #2504, COA #S.000A160
1/4/21



DiPrete Engineering
Two Stafford Court Cranston, RI 02920
tel: (401) 949-1000 fax: (401) 464-6006 www.diprete-eng.com

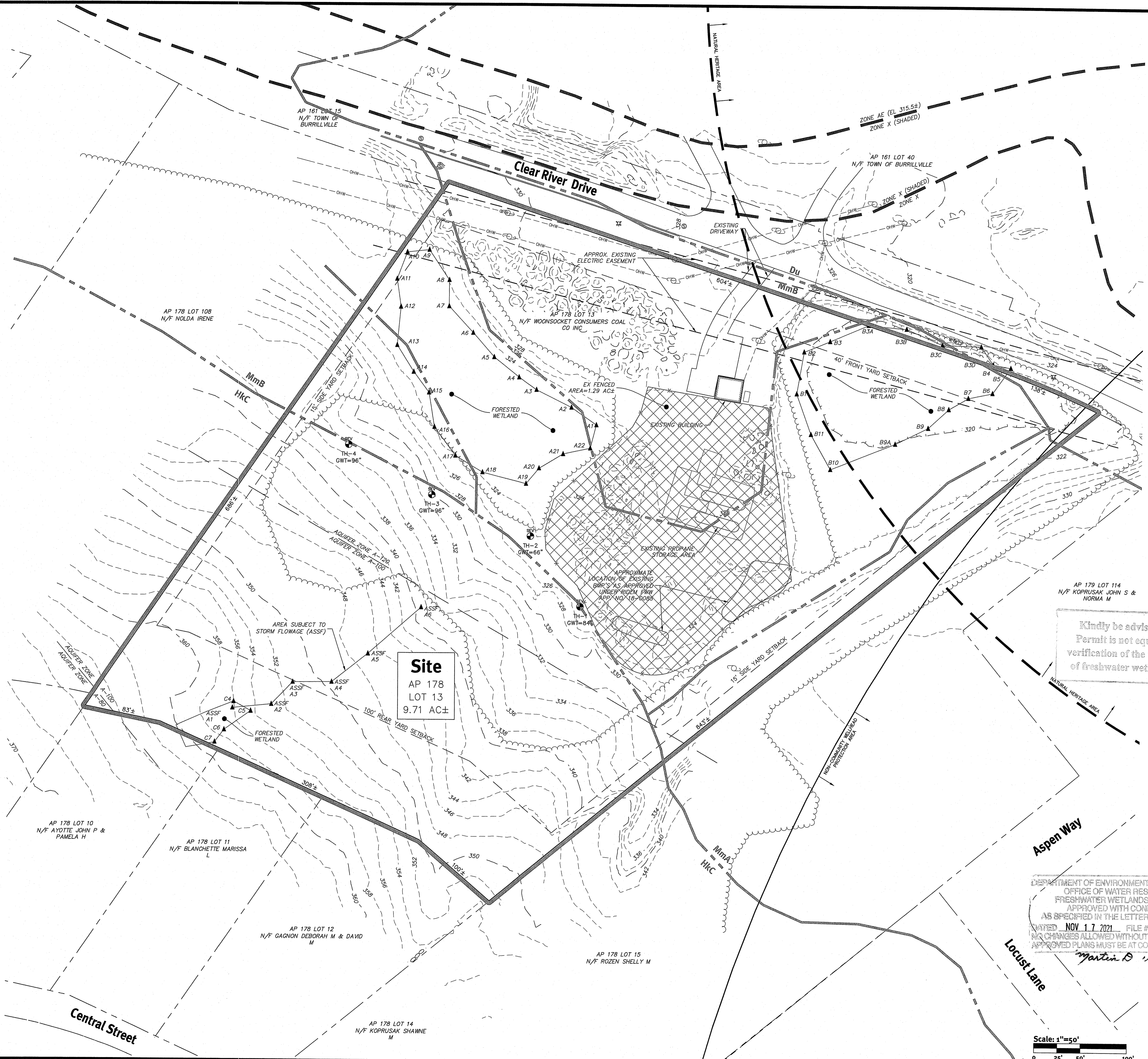
Boston • Providence • Newport

o	3/12/2020	Boundary Survey	A.L.F.
No.	Date	Description	By:

Boundary Survey
Saint John Solar
Burrillville, Rhode Island

Client: **Hexagon Energy, LLC**
722 Preston Ave, Suite 102, Charlottesville, Virginia 22903
tel: (434) 227-5090

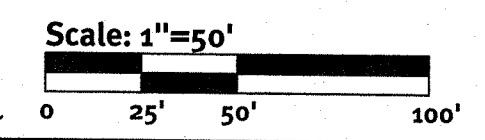
DE Job No: 272-405 Copyright 2020 by DiPrete Engineering Associates, Inc.



Environmental Management
 SEP 14 2021
 Office of Water Resources

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

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED NOV 17 2021 FILE # 21-0061
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
 Martin D. Senczek



KEVIN DEMERS
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

This plan set must not be used for construction purposes unless stamped 'Issued for Construction' and stamped by a registered Professional Engineer of Diprete Engineering.
 Diprete Engineering only warrants plans on a Diprete Engineering project prepared by a registered Professional Engineer of Diprete Engineering. Diprete Engineering does not warrant plans by any other party.
 The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA compliance in the implementation of this plan and design.
 Existing utilities shown on this plan are approximate only. Diprete Engineering does not warrant the accuracy of the shown locations of existing utilities. See 'Utility Mark on Sheet'.

No.	Date	Description	By
1	09/16/2021	SDM Preliminary Determination Submittal	SDM
2	09/16/2021	SDM Preliminary Determination Submittal	SDM
3	09/16/2021	SDM Preliminary Determination Submittal	SDM
4	09/16/2021	SDM Preliminary Determination Submittal	SDM
5	09/16/2021	SDM Preliminary Determination Submittal	SDM
6	09/16/2021	SDM Preliminary Determination Submittal	SDM
7	09/16/2021	SDM Preliminary Determination Submittal	SDM
8	09/16/2021	SDM Preliminary Determination Submittal	SDM
9	09/16/2021	SDM Preliminary Determination Submittal	SDM
10	09/16/2021	SDM Preliminary Determination Submittal	SDM
11	09/16/2021	SDM Preliminary Determination Submittal	SDM
12	09/16/2021	SDM Preliminary Determination Submittal	SDM
13	09/16/2021	SDM Preliminary Determination Submittal	SDM
14	09/16/2021	SDM Preliminary Determination Submittal	SDM
15	09/16/2021	SDM Preliminary Determination Submittal	SDM
16	09/16/2021	SDM Preliminary Determination Submittal	SDM
17	09/16/2021	SDM Preliminary Determination Submittal	SDM
18	09/16/2021	SDM Preliminary Determination Submittal	SDM
19	09/16/2021	SDM Preliminary Determination Submittal	SDM
20	09/16/2021	SDM Preliminary Determination Submittal	SDM
21	09/16/2021	SDM Preliminary Determination Submittal	SDM
22	09/16/2021	SDM Preliminary Determination Submittal	SDM
23	09/16/2021	SDM Preliminary Determination Submittal	SDM
24	09/16/2021	SDM Preliminary Determination Submittal	SDM
25	09/16/2021	SDM Preliminary Determination Submittal	SDM
26	09/16/2021	SDM Preliminary Determination Submittal	SDM
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28	09/16/2021	SDM Preliminary Determination Submittal	SDM
29	09/16/2021	SDM Preliminary Determination Submittal	SDM
30	09/16/2021	SDM Preliminary Determination Submittal	SDM
31	09/16/2021	SDM Preliminary Determination Submittal	SDM
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46	09/16/2021	SDM Preliminary Determination Submittal	SDM
47	09/16/2021	SDM Preliminary Determination Submittal	SDM
48	09/16/2021	SDM Preliminary Determination Submittal	SDM
49	09/16/2021	SDM Preliminary Determination Submittal	SDM
50	09/16/2021	SDM Preliminary Determination Submittal	SDM

Existing Analysis Plan
 Saint John Solar
 Burrillville, Rhode Island
 AP 178 Lot 13
 Woonsocket Consumers Coal
 139 Hamlet Avenue, Woonsocket, RI 02895
 tel (401) 762-5465
 DE Reg No: 2727-005 Copyright: 2020 by Diprete Engineering Associates, Inc.

Diprete Engineering
 Two Stafford Court, Cranston, RI 02920
 tel 401-943-7000 fax 401-464-6006 www.diprete-eng.com
 Boston • Providence • Newport

z:\demain\projects\2727-005 clear river solar\autocad\drawings\2727-005-plan.dwg Plotted: 4/17/2021

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

SLOPES TABLE

8% - 15%	
15% AND GREATER	

Soil Erosion Control Legend:

- DIVERSION RUNOFF CONVEYANCE MEASURE (SWALE AND/OR BERM)
- TEMPORARY SEDIMENT TRAP
- APPROXIMATE SESC TRAP DISTURBANCE AREA LINE (5 ACRE MAX)
- EROSION CONTROL (COMPOST SOCK, SILT FENCE (RI STD 9.2.0) OR APPROVED EQUAL)
- CLASS C SILT FENCE
- LIMIT OF DISTURBANCE (NO SEDIMENT CONTROL)
- LIMIT OF DISTURBANCE (WITH SEDIMENT CONTROL)
- COMPOST FILTER SOCK (8" DIAMETER)
- TRIBUTARY AREA TO SESC BMP
- CONSTRUCTION ENTRANCE (RIDOT STD 9.9.0)
- INFILTRATING AREA (TO BE PROTECTED BY COMPOST SOCK OR SILT FENCE)
- FINAL CONTOUR GRADE
- INLET SEDIMENT CONTROL

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED NOV 17 2021 FILE # 21-004
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

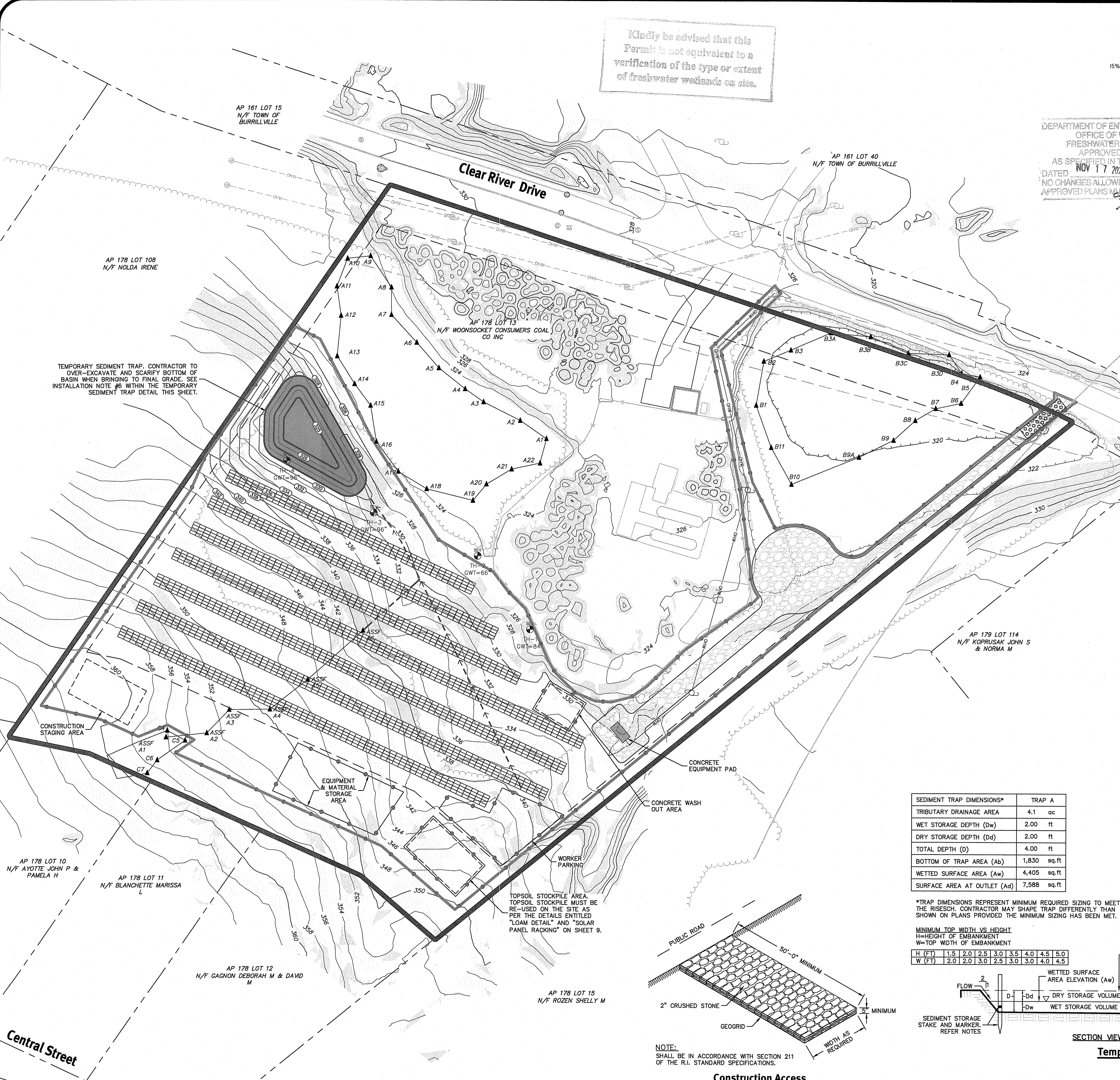
Environmental Management
Office of Water Resources
SEP 14 2021

KEVIN DEMERS
REGISTERED PROFESSIONAL ENGINEER
CIVIL

This plan was prepared by the applicant for construction purposes and is not to be used for any other purpose. The contractor is responsible for all of the means, methods, safety precautions, and requirements, and OSHA compliance in the implementation of this plan and design. Existing utilities shown on this plan are approximate only. DiPrete & Associates, Inc. is not responsible for the accuracy of the location of existing utilities. See Utility Notes on Sheet 2.

No.	Date	Description	By
1	09/14/2021	Initial Design	KJD
2	09/14/2021	Revised Design	KJD
3	09/14/2021	Final Design	KJD

Soil Erosion & Sediment Control Plan
Saint John Solar
Burrillville, Rhode Island
Applicant
Woonsocket Consumers Coal
139 Hamlet Avenue, Woonsocket, RI 02895
tel (401) 762-5461
Design By: SDM
Drawn By: KJD



GENERAL NOTES:

1. THE TEMPORARY SEDIMENT TRAP SHALL MEET ALL REQUIREMENTS FOR TEMPORARY SEDIMENT TRAPS OUTLINED IN THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST REVISION) SECTION SIX: SEDIMENT CONTROL MEASURES
2. THE TEMPORARY SEDIMENT TRAP MUST PROVIDE A STORAGE VOLUME FOR ONE INCH OF RUNOFF FROM THE CONTRIBUTING AREA. HALF OF THE STORAGE MUST BE PROVIDED IN THE FORM OF WET STORAGE. SEE DETAIL BELOW SECTION 6 OF THE RISESCH.
3. ALL CUT AND FILL SLOPES MUST BE 2:1 OR FLATTER EXCEPT FOR THE EXCAVATED WET STORAGE AREA WHERE SLOPES MUST NOT EXCEED 1.5:1.
4. THE OUTLET MUST BE LOCATED AT THE MOST DISTANT HYDRAULIC POINT FROM THE INLET.
5. THE OUTLET CONSISTS OF A PERVIOUS STONE DIKE WITH A CORE OF MODIFIED RIPRAP AND FACED ON THE UPSTREAM SIDE WITH STONE.
6. TEMPORARY SEDIMENT TRAPS MUST OUTLET ONTO STABILIZED GROUND.
7. MAXIMUM HEIGHT OF A TEMPORARY SEDIMENT TRAP EMBANKMENT IS LIMITED TO 5 FEET (BOTTOM OF DRY STORAGE TO TOP OF EMBANKMENT). TOTAL EMBANKMENT HEIGHT MUST NOT EXCEED 6 FEET (BOTTOM OF WET STORAGE TO TOP OF EMBANKMENT).
8. SIDE SLOPES OF THE EMBANKMENT MUST BE 2:1 OR FLATTER.
9. MODIFIED RIPRAP: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.10.03.2.
10. FILTER STONE: SHALL MEET THE REQUIREMENTS OF RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SUBSECTION M.01.03 TABLE I, COLUMN V FILTER STONE.
11. CONSTRUCTION STOCKPILING AND STAGING AREA TO INCLUDE CONCRETE WASHOUT AREA AND VEHICLE FUELING, STORAGE & MAINTENANCE AREA.

INSPECTION, MAINTENANCE, AND REMOVAL REQUIREMENTS:

1. INSTALL "SEDIMENT STORAGE" STAKE WITH A MARKER AT ONE HALF OF THE WET STORAGE VOLUME.
2. INSPECT THE TEMPORARY SEDIMENT TRAP AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.25 INCH OR GREATER.
3. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT.
4. CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
5. WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF THE MINIMUM REQUIRED VOLUME OF THE WET STORAGE, DEWATER THE TRAP AS NEEDED, REMOVE SEDIMENTS AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS.
6. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA AS DESIGNATED BY THE GEOTECHNICAL ENGINEER.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.
8. ALL SEDIMENT TRAPS MUST BE OVER-EXCAVATED BY A MINIMUM OF 24" BELOW BOTTOM AND SCARIFIED PRIOR TO BACKFILL OF SUITABLE MATERIAL FOR INFILTRATION POND BMP'S.

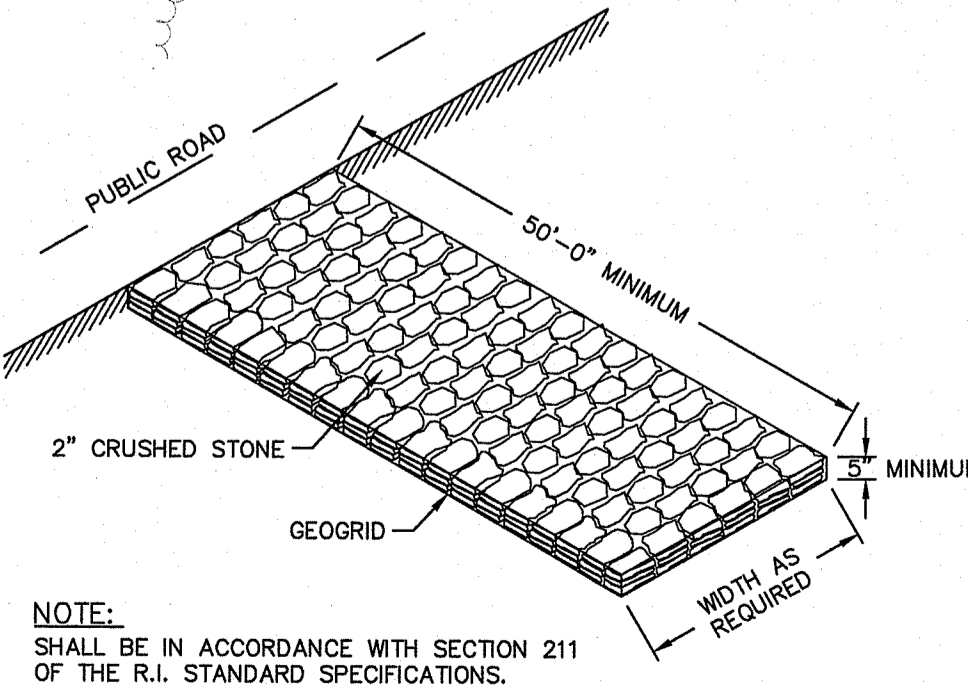
INSTALLATION NOTES:

1. CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA.
2. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
3. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS.
4. USE ONLY FILL MATERIAL FOR THE EMBANKMENT THAT IS FREE FROM EXCESSIVE ORGANICS, DEBRIS, LARGE ROCKS (OVER SIX (6) INCHES) OR OTHER UNSUITABLE MATERIALS. COMPACT THE EMBANKMENT IN 9-INCH LAYERS BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
5. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES: SEEDING FOR TEMPORARY VEGETATION COVER; SEEDING FOR PERMANENT VEGETATIVE COVER; OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.
6. ALL SEDIMENTS TO BOTTOM OF TEMPORARY BASIN MUST BE REMOVED, AND THE ENTIRE POND BOTTOM MUST BE ROTOTILLED TO A MINIMUM DEPTH OF 24 INCHES, PRIOR TO ESTABLISHMENT TO FINAL DESIGN GRADES AND COVER FOR THE PERMANENT INFILTRATION BASIN.

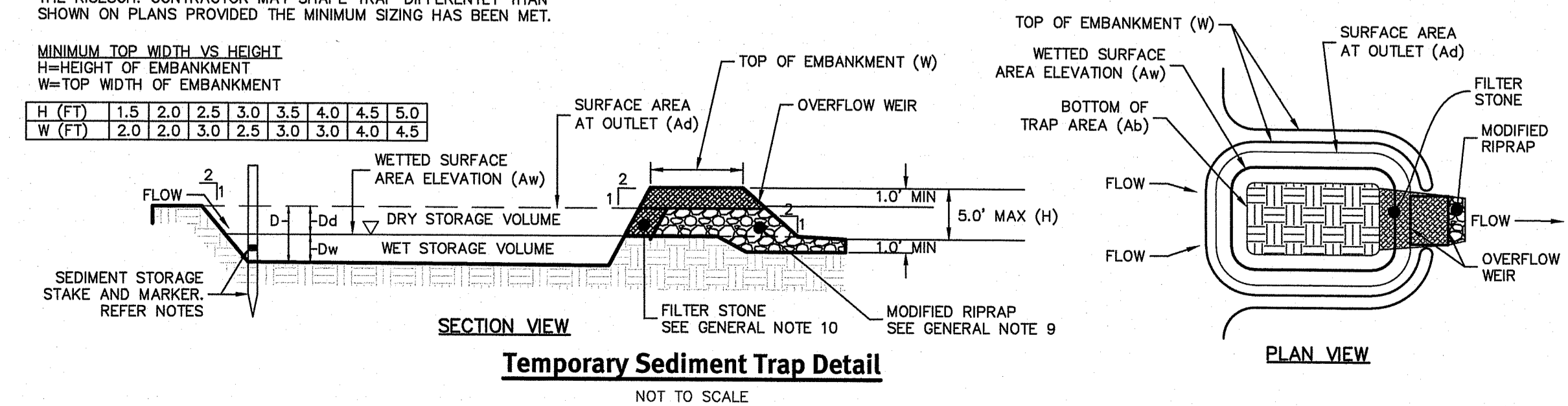
SEDIMENT TRAP DIMENSIONS*	TRAP A
TRIBUTARY DRAINAGE AREA	4.1 ac
WET STORAGE DEPTH (Dw)	2.00 ft
DRY STORAGE DEPTH (Dd)	2.00 ft
TOTAL DEPTH (D)	4.00 ft
BOTTOM OF TRAP AREA (Ab)	1,830 sq.ft
WETTED SURFACE AREA (Aw)	4,405 sq.ft
SURFACE AREA AT OUTLET (Aa)	7,588 sq.ft

*TRAP DIMENSIONS REPRESENT MINIMUM REQUIRED SIZING TO MEET THE RISESCH. CONTRACTOR MAY SHAPE TRAP DIFFERENTLY THAN SHOWN ON PLANS PROVIDED THE MINIMUM SIZING HAS BEEN MET.

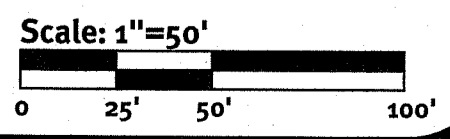
MINIMUM TOP WIDTH VS HEIGHT	
H (FT)	W (FT)
1.5	2.0
2.0	2.5
2.5	3.0
3.0	3.5
3.5	4.0
4.0	4.5
4.5	5.0
5.0	5.5



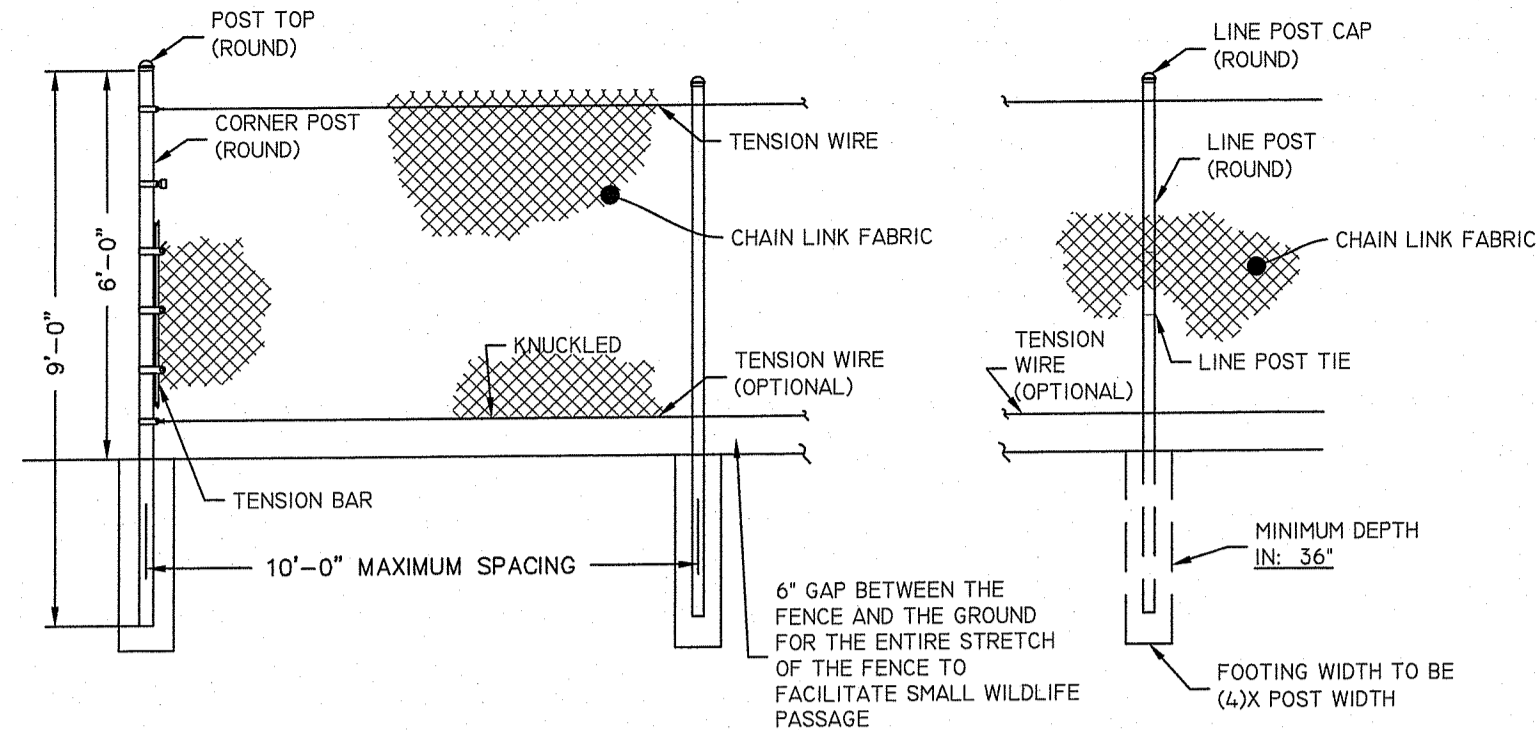
NOTE: SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.
Construction Access
NOT TO SCALE



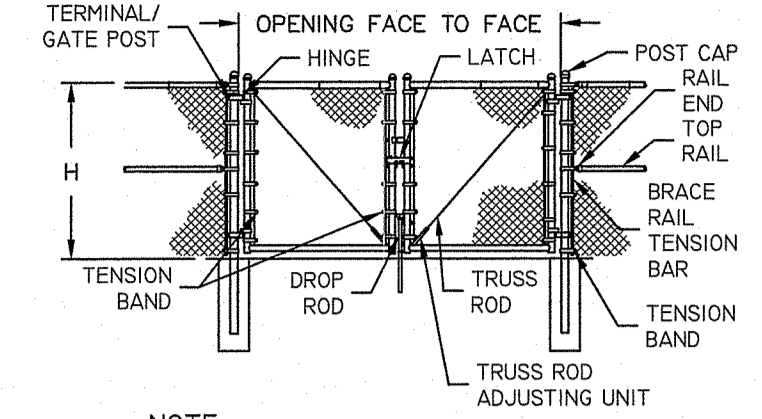
Note: This Plan Must Be Reproduced In Color



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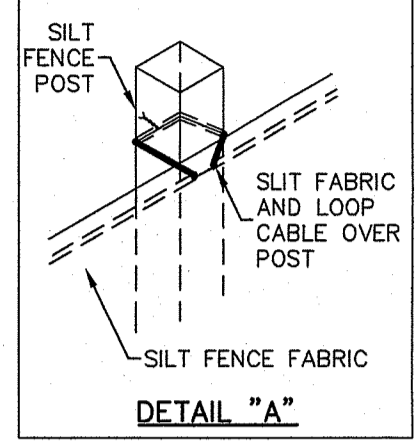


FENCE DETAIL
NOT TO SCALE

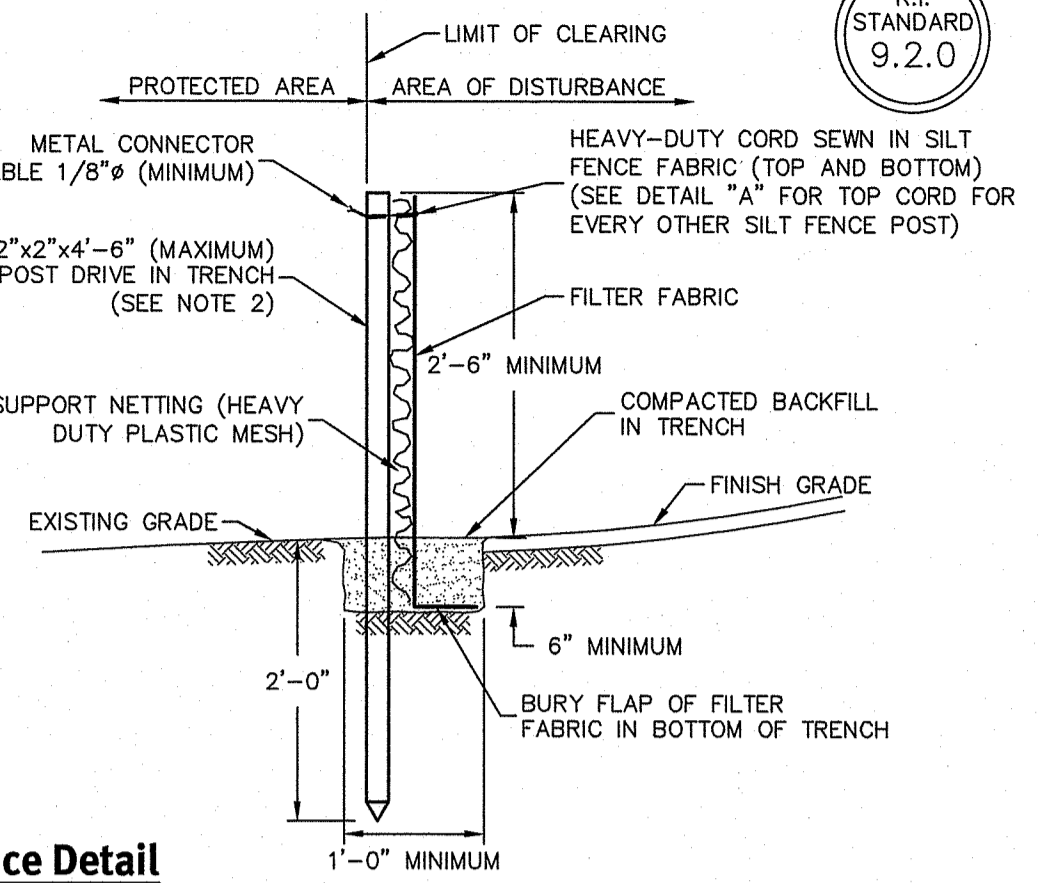


Silt Fence Detail
NOT TO SCALE

- NOTES:**
- SHALL BE IN ACCORDANCE WITH SECTION 206 OF THE R.I. STANDARD SPECIFICATIONS.
 - 2"x2"x4'-6" (MAXIMUM) OAK POSTS FOR SILT FENCE SHALL BE LOCATED 8'-0" (MAXIMUM) O.C. IN WETLAND AREAS AND 4'-0" (MAXIMUM) O.C. IN WETLAND RAINE, GULLY OR DROP-OFF AREAS AS SHOWN ON PLANS.
 - 1"x1"x4'-6" (MINIMUM) POSTS PERMITTED FOR PRE-FABRICATED SILT FENCE.
 - SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.

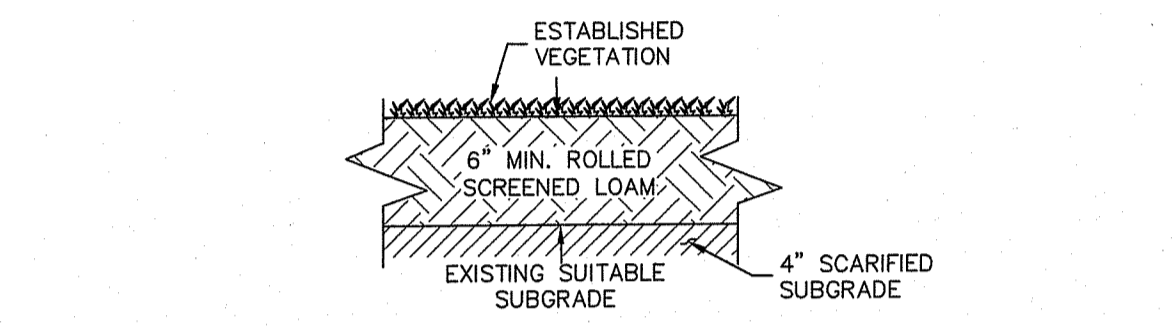


DETAIL "A"



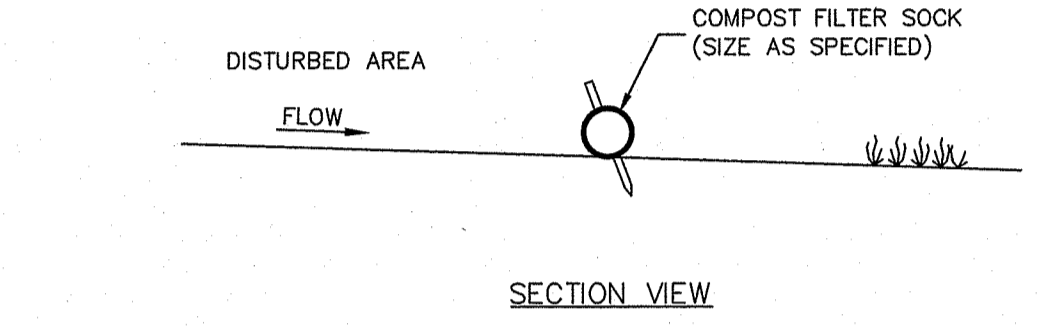
Solar Panel Racking
NOT TO SCALE

- NOTES:**
- ADJACENT PANELS SHALL BE INSTALLED WITH A MINIMUM OF 6 INCHES OF SEPARATION.
 - ROWS OF PANELS SHALL BE INSTALLED AT A SPACING OF APPROXIMATELY 18.6 FEET.
 - TYPICAL SOLAR PANEL RACKING SYSTEM SHOWN. RACKING SYSTEM MANUFACTURER AND FOUNDATIONS TO BE DETERMINED AT TIME OF CONSTRUCTION. SELECTED RACKING SYSTEM SHALL USE A DRIVEN PILE OR SCREW PILE FOUNDATION AND BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - INSTALLED HEIGHT WILL VARY BASED ON THE RACKING LAYOUT AND FINAL DESIGN BUT WILL BE LESS THAN ZONING CODE REQUIREMENTS. PANEL HEIGHT IN AREAS OVER PROPOSED PONDS WILL BE INSTALLED SO THE PANEL BOTTOM IS SET A MINIMUM AT THE TOP OF POND ELEVATION WITHIN THE POND LIMITS.
 - SEE PLANS BY OTHERS FOR PANEL TYPE, QUANTITY AND LOCATIONS.



Loam Detail
NOT TO SCALE

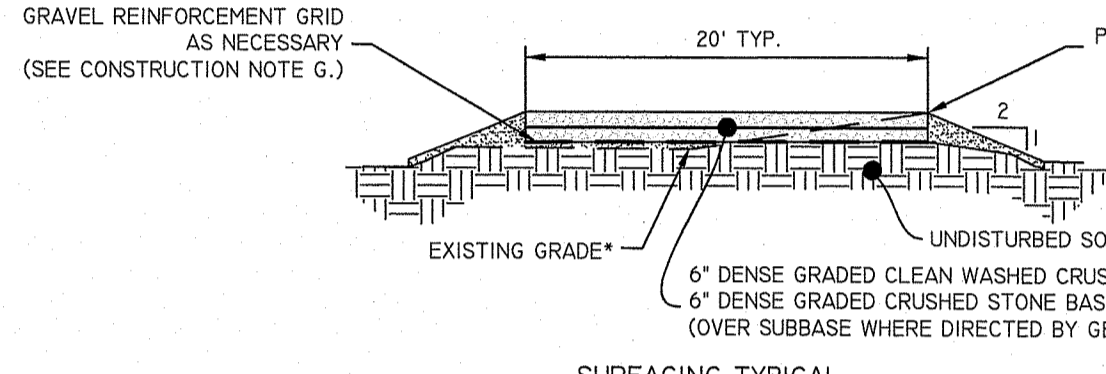
- NOTE:**
- ALL DISTURBED AREAS TO BE LOAMED WITH SCREENED LOAM IN ACCORDANCE WITH RHODE ISLAND DEPARTMENT OF TRANSPORTATION (RIDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION SECTIONS L.01 AND M.18.
 - HYDRAULICALLY APPLY "SOLAR MIX" SEED MIX BY VALLEY GREEN OR APPROVED EQUAL. THE PROPOSED SEED MIX USED BENEATH, BETWEEN AND AROUND THE PANEL ROWS SHALL INCLUDE BOTH SHADE-TOLERANT AND SUN-TOLERANT GRASS SEED TO ENSURE THAT PROPOSED VEGETATION WILL HAVE HIGH RATE OF SURVIVAL SITE-WIDE.
 - PRIOR TO CONSTRUCTION, ON SITE TESTING MUST BE PERFORMED BY HYDROGRASS TECHNOLOGIES INC. (OR OTHER COMPANY APPROVED BY DESIGN ENGINEER AND SOLAR DEVELOPER) TO DETERMINE FINAL PROTOCOL/ GROWTH MEDIUM SELECTION/ MIX RATIOS BASED ON THE SOILS SPECIFIC TO THE PROJECT SITE. FINAL FORMULATION MUST BE PROVIDED TO DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION.
 - CONTRACTOR MAY USE OTHER SIMILAR TECHNOLOGIES ONLY WITH WRITTEN APPROVAL FROM DESIGN ENGINEER AND SOLAR DEVELOPER, AND MUST STILL COMPLY WITH THE NOTE ABOVE.
 - UPON COMPLETION OF SOLAR ARRAY, THE TOPSOIL AND SUBSOIL SHALL BE SUBJECT TO DEEP-TILLING TO HELP ALLEVIATE THE ADVERSE IMPACTS OF SOIL COMPACTION AND PROMOTE VEGETATED GROWTH.



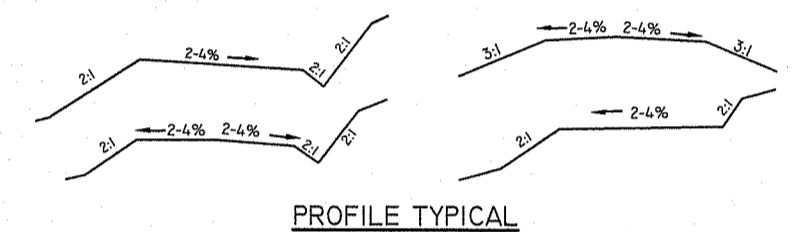
Compost Filter Sock
NOT TO SCALE

- Notes:**
- COMPOST FILTER SOCKS MUST BE USED TO CONSTRUCT THE FILTER BERMS ON SITE.
 - COMPOST FILTER SOCKS MUST BE USED ON SIGNIFICANT FLOW PATHS AND PLACED PARALLEL TO THE SLOPE OF THE FLOW BASED ON THE COMPOST FILTER SOCK REQUIREMENTS IN THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (2016).
 - TALL GRASSES MUST BE CUT PRIOR TO INSTALLATION TO MINIMIZE POTENTIAL FOR UNDERCUTTING. COMPOST FILTER SOCKS MUST BE NETTED OR OTHERWISE ANCHORED AFTER INSTALLATION.
 - SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE ABOVE GROUND HEIGHT OF THE SOCK.
 - ANY SECTION OF COMPOST FILTER SOCK WHICH HAVE BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED. CONCENTRATED FLOWS MUST NOT BE DIRECTED TOWARDS ANY COMPOST FILTER SOCK.
 - CONTRACTOR MUST FIELD ADJUST FILTER SOCKS AS NECESSARY. CERTAIN AREAS MAY BE OMITTED AS NECESSARY OR ADDITIONAL MEASURES ADDED BASED ON FIELD CONDITIONS.
 - CONTRACTOR TO MODIFY FILTER SOCK CONDITIONS AS SITE GRADING IS REVISED. FILTER SOCKS MUST BE IN PLACE WHEN A RAINFALL GREATER THAN 0.25" IS EXPECTED.

SLOPE %	MAXIMUM 8" DIAMETER SOCK SPACING
5	300 FEET
2 (OR LESS)	200 FEET
10	100 FEET
15	70 FEET
20	50 FEET
25	40 FEET
30	30 FEET
35	30 FEET
40	30 FEET
45	20 FEET
50	20 FEET



SURFACING TYPICAL



PROFILE TYPICAL

CLEAN CRUSHED STONE SPECIFICATIONS

SIEMER DESIGNATION	PERCENTAGE BY MASS (WEIGHT) PASSING SQUARE MESH SIEVES
90mm (3.5in)	100
75mm (3in)	90-100
50mm (2in)	75-100
25mm (1in)	50-80
12.5mm (0.5in)	30-60
4.75mm (No. 4)	0-40
7.5mm (No. 200)	0

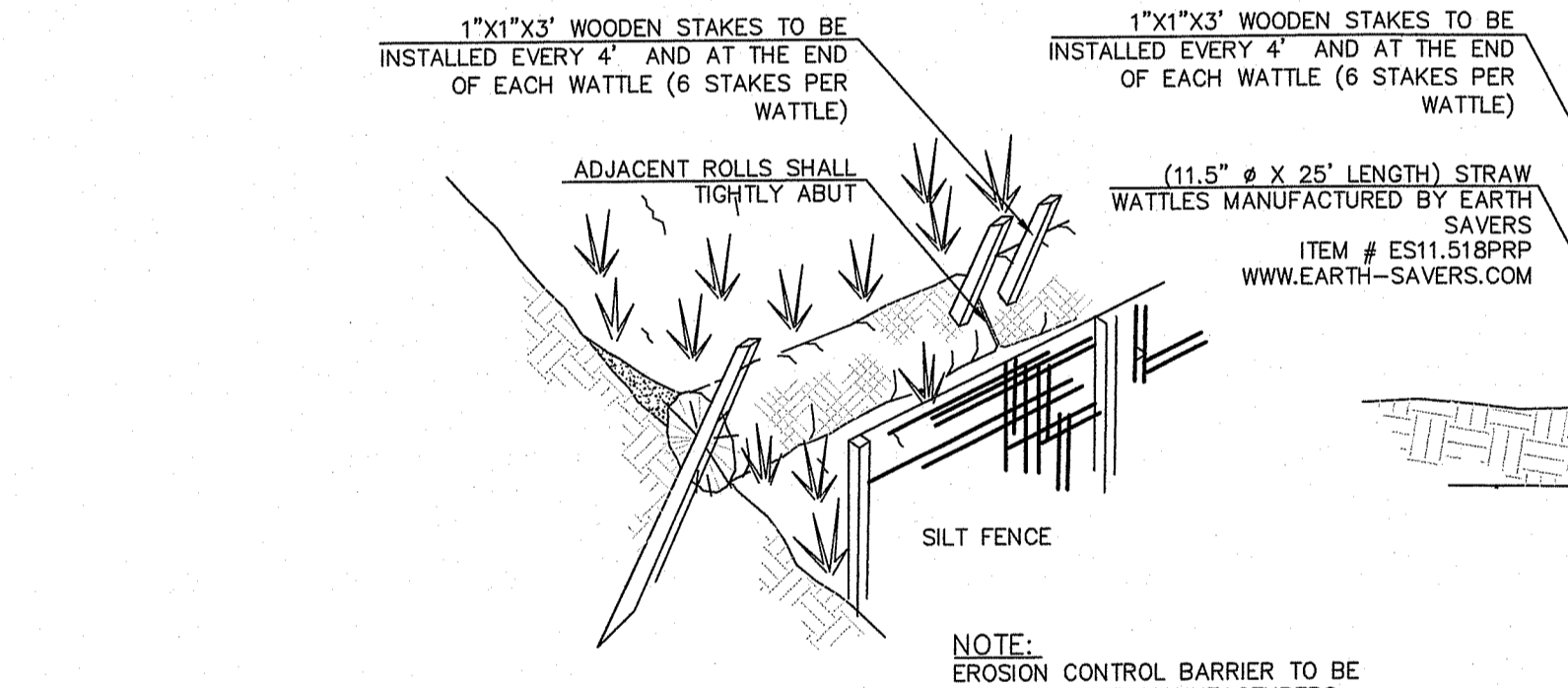
- DENSE GRADED CLEAN CRUSHED STONE:**
- DENSE GRADED CLEAN WASHED CRUSHED STONE MUST CONSIST OF CLEAN WASHED, HARD, UNIFORMLY GRADED, CRUSHED STONE. IT MUST BE SUFFICIENTLY FREE FROM DIRT, DELETERIOUS MATERIAL, AND PIECES THAT ARE STRUCTURALLY WEAK AND MUST MEET THE FOLLOWING REQUIREMENTS:
 - SOURCE OF MATERIAL MUST BE OBTAINED FROM AREAS STRIPPED AND CLEANED OF SOIL AND DEBRIS BEFORE BLASTING
 - MATERIAL COARSER THAN THE 4.75MM (NO. 4) SIEVE MUST NOT BE MORE THAN 30 PERCENT, BY MASS (WEIGHT), OF THIN AND/OR ELONGATED PIECES.

BASE SPECIFICATIONS

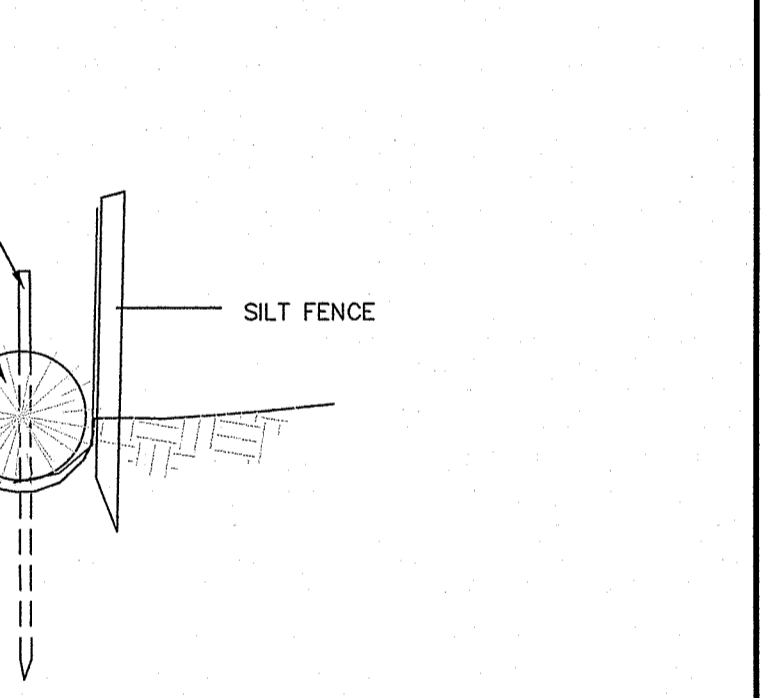
SIEMER DESIGNATION	PERCENTAGE BY MASS (WEIGHT) PASSING SQUARE MESH SIEVES
90mm (3.5in)	100
75mm (3in)	90-100
50mm (2in)	75-100
25mm (1in)	50-80
12.5mm (0.5in)	30-60
4.75mm (No. 4)	15-40
7.5mm (No. 200)	0-6

- DENSE GRADED CRUSHED STONE FOR BASE:**
- DENSE GRADED CRUSHED STONE FOR BASE MUST CONSIST OF CLEAN, HARD, UNIFORMLY GRADED, CRUSHED STONE. IT MUST BE SUFFICIENTLY FREE FROM DIRT, DELETERIOUS MATERIAL, AND PIECES THAT ARE STRUCTURALLY WEAK AND MUST MEET THE FOLLOWING REQUIREMENTS:
 - SOURCE OF MATERIAL MUST BE OBTAINED FROM AREAS STRIPPED AND CLEANED OF SOIL AND DEBRIS BEFORE BLASTING
 - MATERIAL COARSER THAN THE 4.75MM (NO. 4) SIEVE MUST NOT BE MORE THAN 30 PERCENT, BY MASS (WEIGHT), OF THIN AND/OR ELONGATED PIECES.

- CONSTRUCTION & MAINTENANCE NOTES:**
- CONSTRUCTION OPERATIONS MUST BE CARRIED OUT IN SUCH A MANNER TO MINIMIZE POTENTIAL EROSION AND WATER QUALITY DEGRADATION.
 - FIXED EROSION CONTROLS AND SITE STABILIZATION MUST BE CONDUCTED IN ACCORDANCE WITH APPROVED BMP'S OR PURSUANT TO PROJECT SPECIFIC PERMITS.
 - TREES, STUMPS, ROOTS, BRUSH AND WEEDS MUST BE REMOVED FROM THE WORK AREA IF DETERMINED NECESSARY TO SAFELY CONSTRUCT ROADWAY.
 - ON WEAK BEARING SOIL SUCH AS LOOSE ALLUVIAL, OR WETLAND SOILS, SURFACE TREATMENTS SHOULD BE UNDERLAIN WITH WOVEN GEOTEXTILES.
 - AT MINIMUM, ROADSIDE DITCHES MUST BE LEFT BELOW ROAD SURFACE.
 - DISCHARGE POINTS, FOR DITCHES MUST NOT BE NEAR WETLANDS OR STREAMS, AND OR BE LOCATED AT THE DIRECTION OF THE DESIGN ENGINEER.
 - CONTRACTOR TO INSTALL GRAVEL REINFORCEMENT GRID AS NECESSARY TO PREVENT EROSION AND/OR VEHICULAR DAMAGE TO THE ACCESS ROAD.
 - THE CRUSHED STONE ACCESS PATH SHALL EXTEND FROM THE EXISTING ROADWAY TO THE SOLAR SITE.
 - THE ACCESS PATH WILL ONLY BE USED FOR INFREQUENT MAINTENANCE OF THE SOLAR SITE AND EMERGENCY USE BY FIRE APPARATUS.
 - WASHED CRUSHED STONE ACCESS ROAD WILL BE PERIODICALLY SCARIFIED, AND REPLENISHED OF WASHED CRUSHED STONE WHEN NEEDED, TO PROMOTE THE LONG-TERM VIABILITY OF THE ACCESS ROAD SURFACE AS PREVIOUS PAVEMENT. THESE MEASURES ARE IDENTIFIED IN THE "STORMWATER SYSTEM OPERATION AND MAINTENANCE PLAN" REPORT.



Silt Fence/Straw Wattle Sediment Barrier
NOT TO SCALE



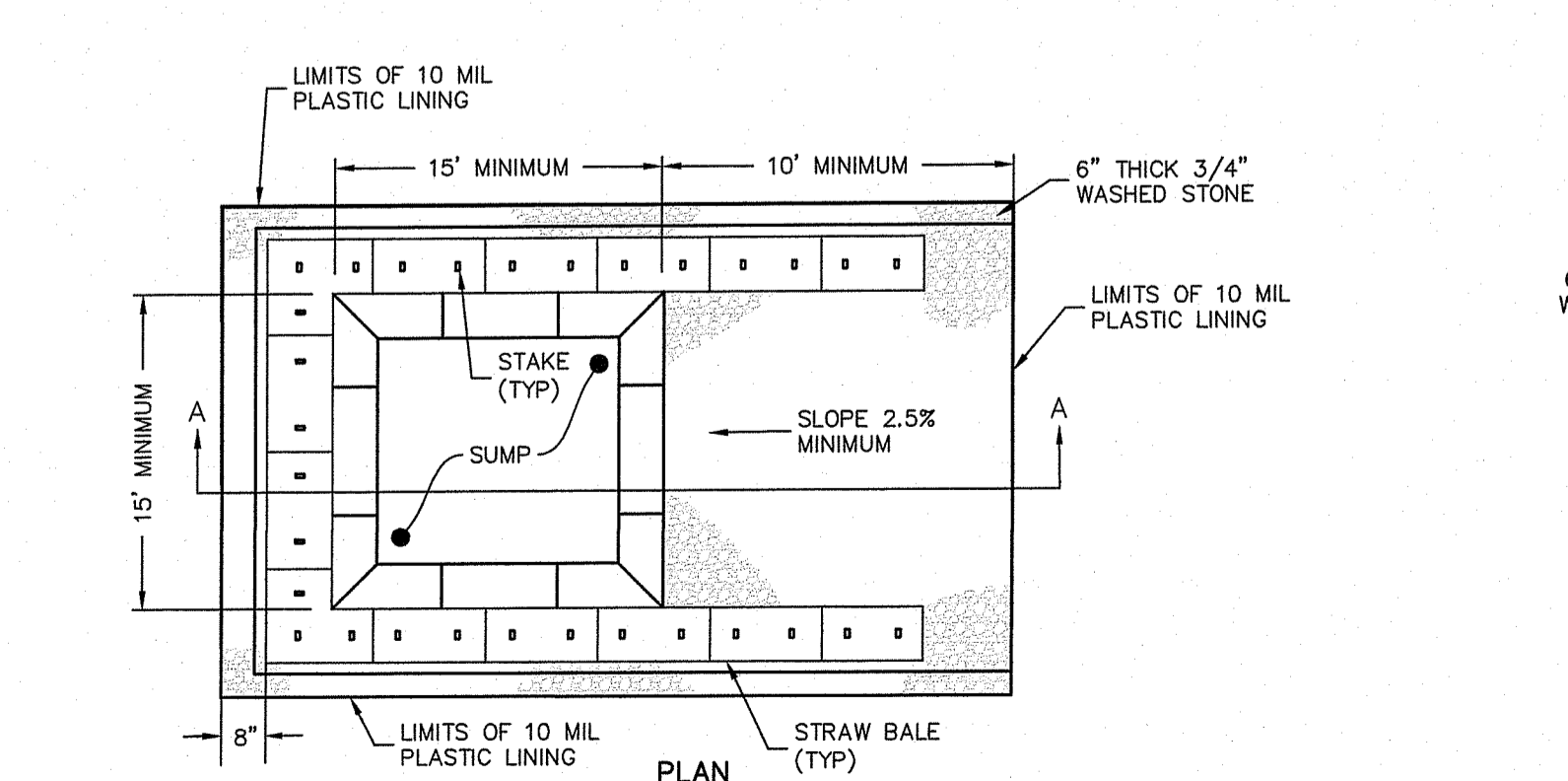
Stockpile Protection
NOT TO SCALE

- NOTES:**
- ALL STOCKPILES MUST BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 3 "STOCKPILE AND STAGING AREA MANAGEMENT" OF THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK (CURRENT EDITION).
 - DIVERT ALL STORMWATER AWAY FROM STOCKPILES.
 - SOIL STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER FORMATION OF THE STOCKPILE WITH SEED MIX COMPATIBLE WITH THE SOIL TYPE.
 - STOCKPILE AND SILT FENCE MUST BE INSPECTED AT LEAST ONCE PER WEEK AND AFTER RAIN EVENTS IN EXCESS OF 1/2" OF RAINFALL. REPAIR/ REPLACE SILT FENCE (AND STOCKPILE COVERS WHERE APPLICABLE) AS NEEDED TO KEEP THEM FUNCTIONING ADEQUATELY.
 - SEDIMENT TRAPPED BY SILT FENCES MUST BE REMOVED AND PROPERLY DISPOSED OF WHENEVER SIGNIFICANT ACCUMULATION OCCURS.

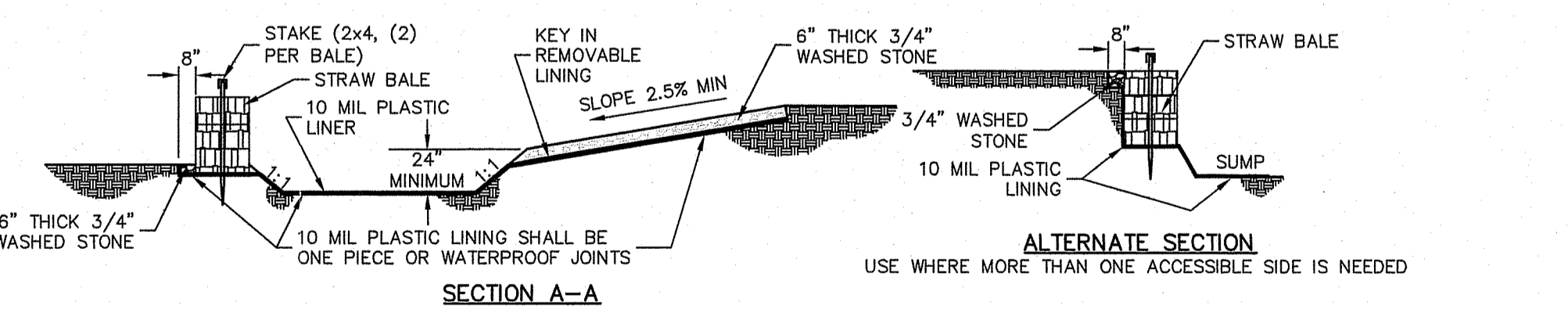
SUBBASE SPECIFICATIONS (WHERE DIRECTED)

CONDITIONS:	ROAD THICKNESS	STONE SIZE	FINES
SUBBASE LAYER WITH GEOTEXTILE FABRIC (NOT EXCESSIVELY WET)	4" MIN.	3-3 1/2"	0-6%
SUBBASE LAYER WITH GEOTEXTILE FABRIC (WET CONDITIONS)	6" MIN.	3-3 1/2"	0-6%

CRUSHED STONE ACCESS PATH DETAIL
NOT TO SCALE

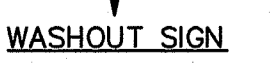


Concrete Washout Area
NOT TO SCALE

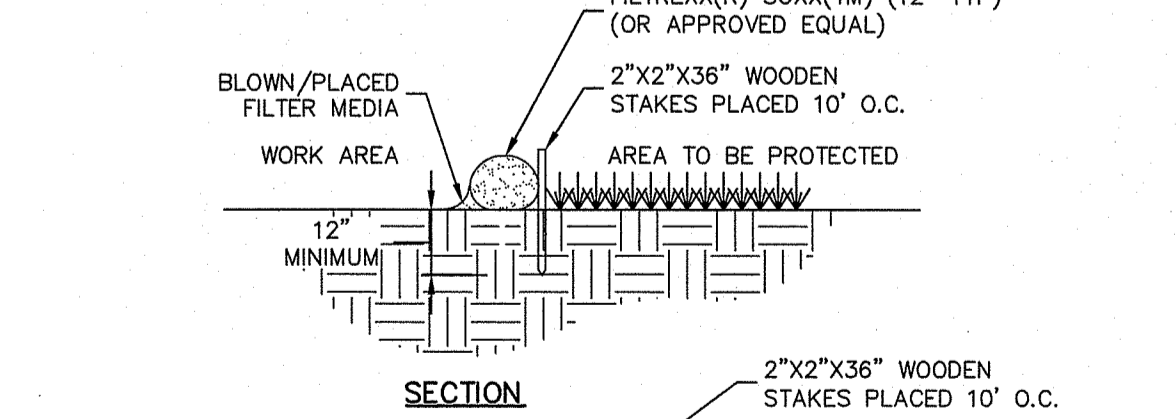


ALTERNATE SECTION
USE WHERE MORE THAN ONE ACCESSIBLE SIDE IS NEEDED

- NOTES:**
- PIT IS SPECIFICALLY DESIGNATED, DIKED AND IMPERVIOUS CONTAINMENT TO PREVENT CONTACT BETWEEN CONCRETE WASH AND STORMWATER.
 - WASH WATER SHALL NOT BE ALLOWED TO FLOW TO SURFACE WATER.
 - FACILITY MUST HOLD SUFFICIENT VOLUME TO CONTAIN CONCRETE WASTE WITH A MINIMUM FREEBOARD OF 12".
 - FACILITY SHALL NOT BE FILLED BEYOND 95% CAPACITY UNLESS A NEW FACILITY IS CONSTRUCTED.
 - SAWCUT PORTLAND CEMENT CONCRETE, RESIDUE FROM SAWCUT AND GRINDING TO BE DISPOSED OF IN THE PIT.
 - CONCRETE WASHOUTS SHALL BE LOCATED A MINIMUM OF 100' FROM DRAINAGE WAYS, INLETS, AND SURFACE WATERS.
 - MANUFACTURED CONCRETE WASHOUT DEVICES MAY BE USED IF REMOVED FROM THE SITE WHEN 95% FULL CAPACITY.

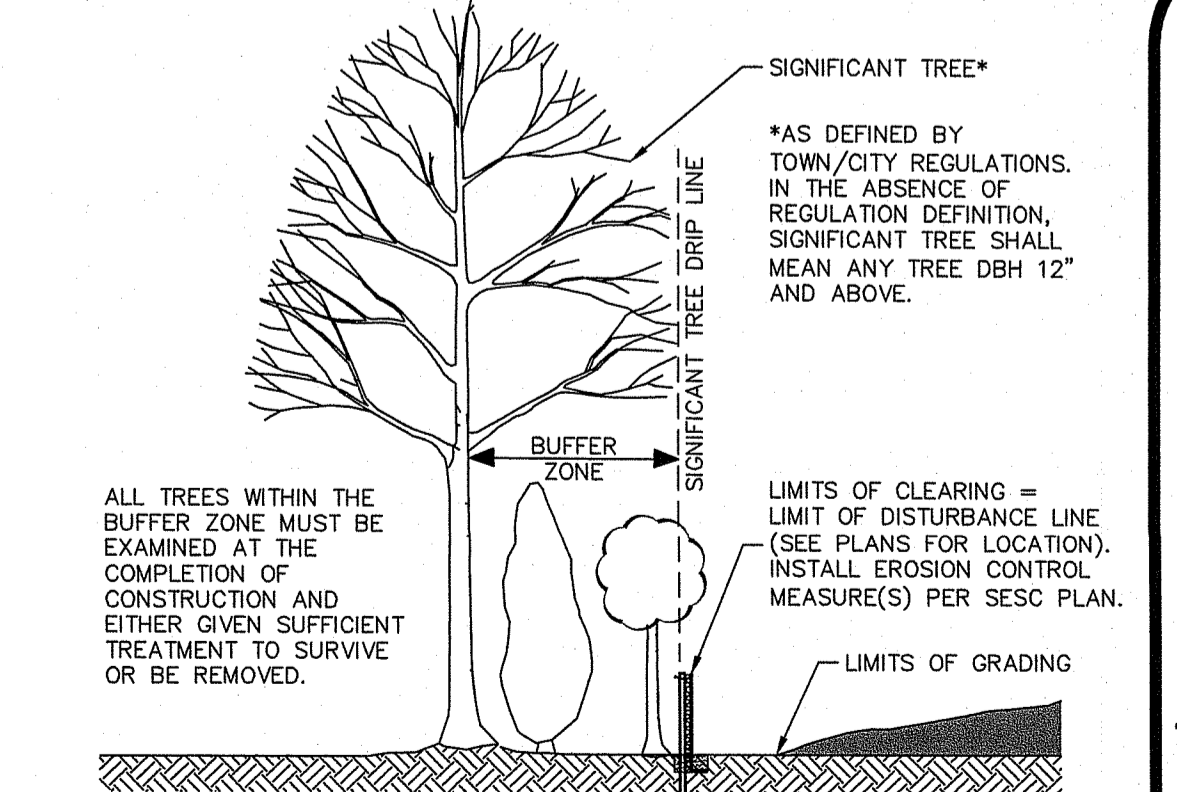


WASHOUT SIGN



Filtrexx Sediment Control (or Approved Equal)
NOT TO SCALE

- NOTES:**
- ALL MATERIAL TO MEET FILTREXX(R) SPECIFICATIONS
 - FILTER MEDIA(TM) FILL TO MEET APPLICATION REQUIREMENTS.
 - COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER. STAKES ARE NOT TO BE USED IN PAVEMENT AREAS.
 - SELF WEIGHT OF FILTREXX SYSTEM IS ADEQUATE TO PREVENT SYSTEM MOVEMENT ONCE POSITIONED ALONG AREA SHOWN ON THE PLANS.
 - CONTRACTOR TO PLACE FILTREXX SEDIMENT CONTROL OR APPROVED EQUAL AROUND ALL CURB INLET LOCATIONS AS SPECIFIED ON PLANS.



Limit of Disturbance at Vegetation
NOT TO SCALE

- NOTES:**
- ALL TREES WITHIN THE BUFFER ZONE MUST BE EXAMINED AT THE COMPLETION OF CONSTRUCTION AND EITHER GIVEN SUFFICIENT TREATMENT TO SURVIVE OR BE REMOVED.
 - LIMITS OF CLEARING (LOC) MUST BE STAKED OUT PRIOR TO CONSTRUCTION. IF ANY SIGNIFICANT TREE DRIP LINE IS ENCRoACHING PAST THE LOC, CONTRACTOR MUST CONTACT SITE ENGINEER PRIOR TO CONSTRUCTION.

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KEVIN DEMERS
REGISTERED PROFESSIONAL ENGINEER CIVIL

Environmental Management
Office of Water Resources
SEP 14 2021

This plan set must not be used for construction purposes unless stamped "Issued for Construction" and stamped by a registered Professional Engineer of DiPrete Engineering.

DiPrete Engineering only warrants plans on a DiPrete Engineering stamp. DiPrete Engineering does not warrant plans by any other party.

The contractor is responsible for all of the means, methods, safety precautions and requirements, and OSHA compliance in the execution of this plan and design.

This is an approximate only. DiPrete Engineering assumes no liability for any errors or omissions in the locations of existing utilities. See Utility Note on Sheet 3.

No.	Date	Description	By	Check	Design By	Check By
1	09/16/2021	PRELIMINARY DETERMINATION	KEVIN DEMERS	KEVIN DEMERS	KEVIN DEMERS	KEVIN DEMERS
2	09/16/2021	PRELIMINARY DETERMINATION	KEVIN DEMERS	KEVIN DEMERS	KEVIN DEMERS	KEVIN DEMERS
3	09/16/2021	PRELIMINARY DETERMINATION	KEVIN DEMERS	KEVIN DEMERS	KEVIN DEMERS	KEVIN DEMERS

Drawn By: SDM
Design By: KID

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Details

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