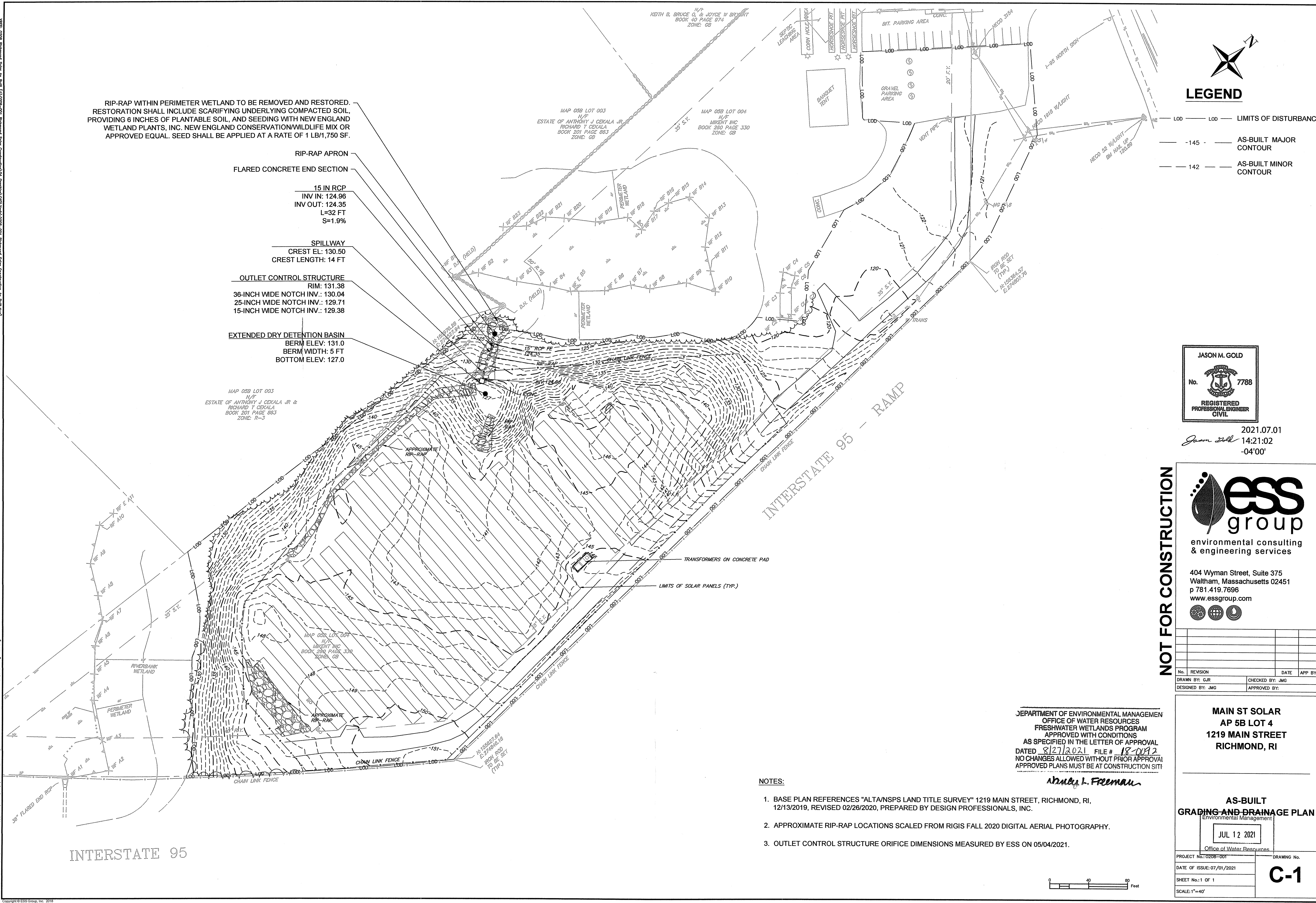


DATE: Jun 30, 2021 11:42:42 AM
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 PLOTTER: HP DesignJet T1100e
 PLOTTING METHOD: Plot Driver
 PLOTTING SCALE: 1.0000
 PLOTTING SPEED: 1200
 PLOTTING STATUS: Success
 PLOTTING TIME: 00:00:00
 PLOTTING USER: jgold
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RIP-RAP WITHIN PERIMETER WETLAND TO BE REMOVED AND RESTORED. RESTORATION SHALL INCLUDE SCARIFYING UNDERLYING COMPACTED SOIL, PROVIDING 6 INCHES OF PLANTABLE SOIL, AND SEEDING WITH NEW ENGLAND WETLAND PLANTS, INC. NEW ENGLAND CONSERVATION/WILDLIFE MIX OR APPROVED EQUAL. SEED SHALL BE APPLIED AT A RATE OF 1 LB/1,750 SF.

- RIP-RAP APRON
- FLARED CONCRETE END SECTION
- 15 IN RCP
INV IN: 124.96
INV OUT: 124.35
L=32 FT
S=1.9%
- SPILLWAY
CREST EL: 130.50
CREST LENGTH: 14 FT
- OUTLET CONTROL STRUCTURE
RIM: 131.38
36-INCH WIDE NOTCH INV.: 130.04
25-INCH WIDE NOTCH INV.: 129.71
15-INCH WIDE NOTCH INV.: 129.38
- EXTENDED DRY DETENTION BASIN
BERM ELEV: 131.0
BERM WIDTH: 5 FT
BOTTOM ELEV: 127.0



LEGEND

- LIMITS OF DISTURBANCE
- AS-BUILT MAJOR CONTOUR
- AS-BUILT MINOR CONTOUR

JASON M. GOLD
 No. 7788
 REGISTERED PROFESSIONAL ENGINEER CIVIL

2021.07.01
 14:21:02
 -04'00"

NOT FOR CONSTRUCTION

ess group
 environmental consulting & engineering services

404 Wyman Street, Suite 375
 Waltham, Massachusetts 02451
 p 781.419.7696
 www.essgroup.com

No.	REVISION	DATE	APP BY

DRAWN BY: GJR CHECKED BY: JMG
 DESIGNED BY: JMG APPROVED BY:

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED 8/27/2021 FILE # 18-0092
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Abigail L. Freeman

- NOTES:**
- BASE PLAN REFERENCES "ALTA/NSPS LAND TITLE SURVEY" 1219 MAIN STREET, RICHMOND, RI, 12/13/2019, REVISED 02/28/2020, PREPARED BY DESIGN PROFESSIONALS, INC.
 - APPROXIMATE RIP-RAP LOCATIONS SCALED FROM RIGIS FALL 2020 DIGITAL AERIAL PHOTOGRAPHY.
 - OUTLET CONTROL STRUCTURE ORIFICE DIMENSIONS MEASURED BY ESS ON 05/04/2021.

INTERSTATE 95

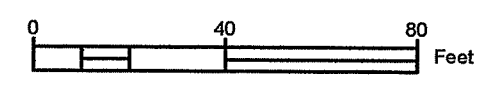
MAIN ST SOLAR
 AP 5B LOT 4
 1219 MAIN STREET
 RICHMOND, RI

AS-BUILT GRADING AND DRAINAGE PLAN
 Environmental Management

JUL 12 2021
 Office of Water Resources

PROJECT No.: 0208-001 DRAWING No.
 DATE OF ISSUE: 07/01/2021
 SHEET No.: 1 OF 1
 SCALE: 1"=40'

C-1



PROPOSED MAIN STREET SOLAR ARRAY CONSTRUCTION PLANS

PROPERTY

1219 MAIN STREET
RICHMOND, RI 02898
AP 5B, LOT 004

DEVELOPER / PREPARED FOR

PINE GATE RENEWABLES, LLC
1111 HAWTHORNE LANE
CHARLOTTE, NC 28205

OWNER/APPLICANT

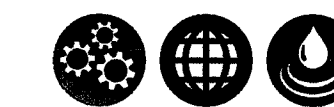
MAIN STREET SOLAR, LLC
1111 HAWTHORNE LANE
CHARLOTTE, NC 28205

PREPARED BY:



environmental consulting
& engineering services

100 Fifth Avenue, 5th Floor
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

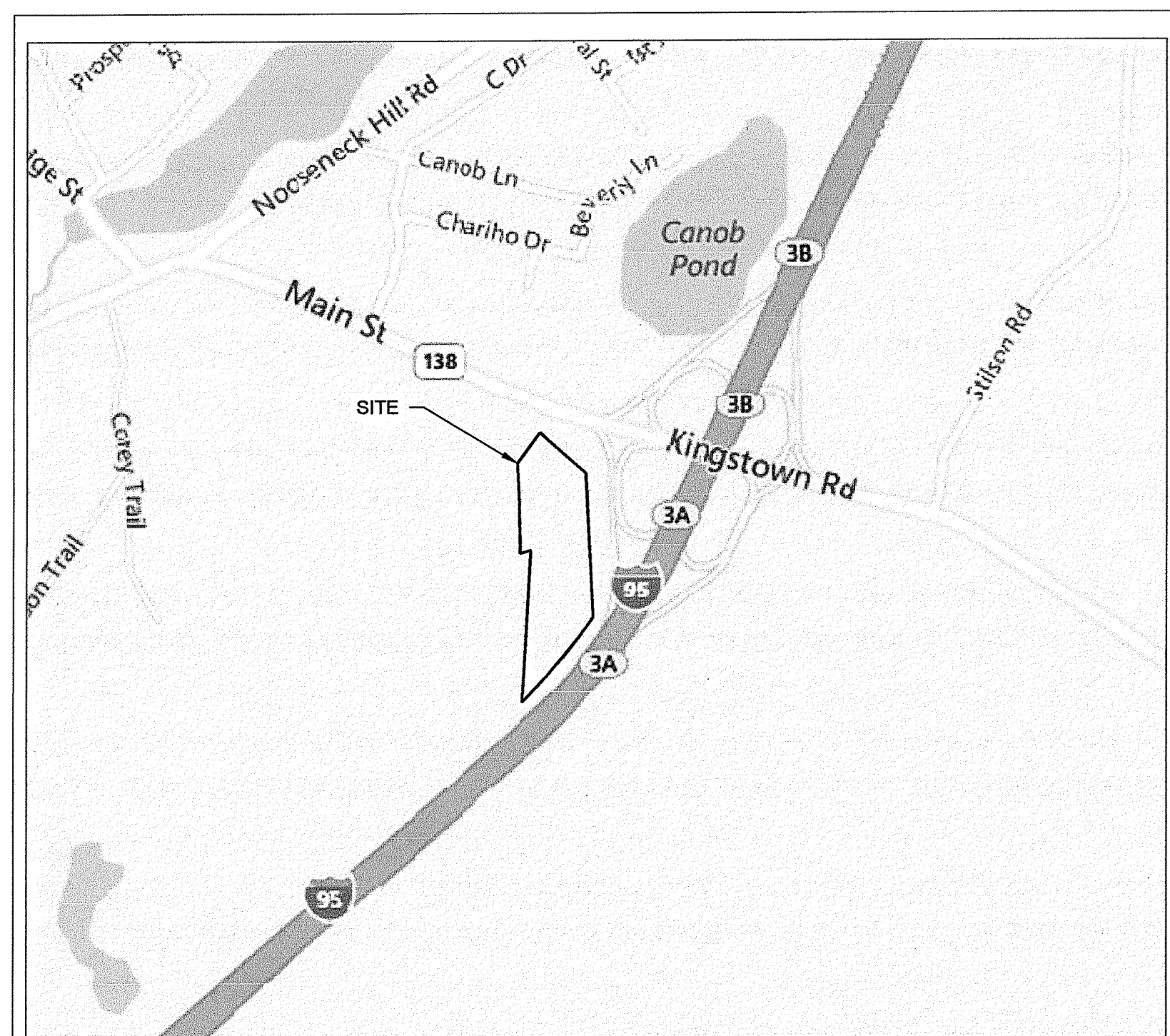


INDEX OF SHEETS

Sheet Number	Sheet Title
1	COVER
2	NOTES
3	SITE LAYOUT
4	GRADING AND DRAINAGE
5	SESC PLAN
6	DETAILS
7	DETAILS

ATTACHMENT V-1: "PROPERTY AND TOPOGRAPHIC SURVEY" DESIGN
PROFESSIONALS, INC.

ATTACHMENT V-2: "PROPERTY AND TOPOGRAPHIC SURVEY" DESIGN
PROFESSIONALS, INC.



LOCATION MAP



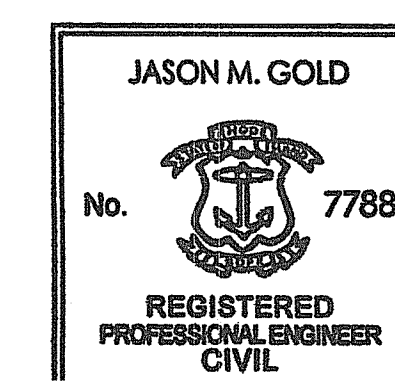
SEPTEMBER 14, 2018

REVISION 1: APRIL 16, 2019

REVISION 2: APRIL 26, 2019

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESH WATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS REQUIRED IN THE LETTER OF APPROVAL
DATED JUL 18 2019 FILE # 18-0092
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS PRINTED AT CONSTRUCTION SITE

Jonathan D. Senechal



Environmental Management

MAY 28 2019

Office of Water Resources

Jason Gold 2019.04.29
19:25:16 -04'00'

ISSUED FOR CONSTRUCTION

GENERAL NOTES:

- 1. SOILS RESOURCES DATA FROM USGS NRCS WEB SOIL SURVEY.
2. 2011 LIDAR DATA FROM RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM (RIGIS).
3. BASE PLAN REFERENCES "PROPERTY AND TOPOGRAPHIC SURVEY", 1219 MAIN STREET, RICHMOND, RI, 08/07/2017, REVISED 06/29/2018, PREPARED BY DESIGN PROFESSIONALS INC.
4. WETLANDS FLAGGED BY ESS ON 07/13/2017.
5. ALL PHOTOVOLTAIC, STRUCTURAL, AND ELECTRICAL INFORMATION PROVIDED TO ESS BY PINE GATE RENEWABLES, INC.

CONSTRUCTION NOTES:

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
2. WORK WITHIN LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE'S STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
3. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, OR FIRE HYDRANTS WITHOUT APPROPRIATE PERMITS.
4. AREAS OUTSIDE THE LIMITS OF THE PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
5. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
6. IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, SEDIMENT, GROUNDWATER, OR OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
7. LIMITS OF DISTURBANCE (LOD) HAVE BEEN SET ON THE DRAWINGS. HOWEVER, THESE MAY BE EXTENDED OR REDUCED IN ORDER TO MEET FIELD CONDITIONS. THE ENGINEER SHALL REVIEW AND APPROVE ANY CHANGE IN THE LOD PRIOR TO ANY ALTERATION.
8. NO CHANGES ARE TO BE MADE UNLESS AUTHORIZED BY THE OWNER.
9. ALL WORK AND MATERIALS SHALL CONFORM TO "MASTER SPECIFICATIONS FOR SOLAR DEVELOPMENT" PREPARED BY PINE GATE RENEWABLES, LLC, AS APPLICABLE WORK NOT ADDRESSED BY THE "MASTER SPECIFICATIONS FOR SOLAR DEVELOPMENT" SHALL CONFORM TO RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED AUGUST 2013, AS SUPPLEMENTED AND RHODE ISLAND STANDARD DETAILS, JUNE 15, 1998, AS AMENDED BY REVISION. THIS WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
9.1. STILLING BASINS FOR WATER POLLUTION CONTROL - SECTION 210
9.2. CONSTRUCTION ACCESS - SECTION 211
9.3. AGGREGATE AND GRAVEL BASE COURSES - SECTION 301
9.4. PAVEMENT APRON - PART 400
9.5. DRIVEWAYS - SECTION 905
9.6. DUST CONTROL - SECTION 90
10. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, AND PERMIT CONDITIONS.
11. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, STREETS, PAVEMENTS, HIGHWAY GUARDS, CURBS, EDGING, TREES AND PLANTINGS, ETC. ON OR OFF THE PREMISES, AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AT HIS/HER OWN EXPENSE AS REQUIRED BY THE ENGINEER ANY ITEMS DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK.
12. THE CONTRACTOR SHALL DISPOSE OF ALL RUBBISH, AND DEBRIS IN ACCORDANCE WITH THE SPECIFICATIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN SAFE AND CLEAN CONDITION.
13. CONSTRUCTION SEQUENCE SHALL BE COORDINATED TO MINIMIZE DISTURBANCE OF EXISTING CONDITIONS AND OPERATIONS AND SHALL BE CONDUCTED AS FOLLOWS:
13.1. ERECT OR POST A 12-IN WIDE X 18-IN LONG WEATHER RESISTANT SIGN WHICH BOLDLY STATES "DEM #185-0092" IN ACCORDANCE WITH THE RIDOT INSIGNIFICANT ALTERATION PERMIT.
13.2. INSTALL SNOW FENCE IDENTIFYING LIMITS OF DISTURBANCE AND AREAS INTERNAL TO THE SITE THAT REQUIRE PROTECTION (AS SHOWN ON PLANS) BEFORE START OF LAND DISTURBANCE.
13.3. INSTALL ALL PERIMETER EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES THAT ARE REQUIRED TO BE IN PLACE AND FUNCTIONAL BEFORE ANY EARTHWORK BEGINS. THIS SHALL BE DONE IN ACCORDANCE WITH THE RI SESC HANDBOOK. UPON ACCEPTABLE COMPLETION OF SITE PREPARATION AND INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, SITE CONSTRUCTION ACTIVITIES MAY COMMENCE.
13.4. INSTALL CONSTRUCTION ENTRANCE
13.5. GRADE AREA OF TEMPORARY SEDIMENT TRAP PER SPECIFICATIONS SHOWN ON PLANS.
13.6. INSTALL INTERIOR SEDIMENT CONTROL ONCE ROUGH GRADING OF RESPECTIVE AREA IS COMPLETE, AND PRIOR TO COMMENCEMENT OF UPGRADE EARTH WORK.
13.7. UPON COMMENCEMENT OF SITE CONSTRUCTION ACTIVITIES, THE OPERATOR SHALL INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. SUCH TEMPORARY OR PERMANENT SOIL STABILIZATION MEASURES MUST BE INSTALLED PRIOR TO INITIATING LAND DISTURBANCE IN SUBSEQUENT PHASES.
13.8. ROUTINE INSPECTION AND MAINTENANCE AND/OR MODIFICATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES WHILE EARTHWORK IS ONGOING IS REQUIRED.
13.9. FILL TEMPORARY SEDIMENT TRAP.
13.10. CONSTRUCT STORMWATER DETENTION BASIN AND INSTALL OUTLET CONTROL STRUCTURE, SPILLWAY, OUTLET PIPE AND LEVEL SPREADER ASSOCIATED WITH THE STORMWATER DETENTION BASIN.
13.11. COMPLETE FINAL SITE STABILIZATION OF ANY DISTURBED AREAS AFTER EARTHWORK HAS BEEN COMPLETED. REMOVE ANY ACCUMULATED SEDIMENTS FROM THE DETENTION BASIN INCLUDING THE OUTLET CONTROL STRUCTURE, SPILLWAY, OUTLET PIPE AND LEVEL SPREADER ONCE FINAL SITE STABILIZATION IS COMPLETED.
13.12. SUITABLY AMEND, TILL, AND RE-VEGETATE QUALIFIED PERVIOUS AREA AND LAYDOWN AREA TO RESTORE INFILTRATION CAPACITY.
13.13. REMOVE 12" X 18" DEM SIGN, SNOW FENCE AND TEMPORARY EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES. REMOVE TEMPORARY EROSION CONTROLS FROM THE OUTLET PIPE OF THE OUTLET CONTROL STRUCTURE WITHIN THE DETENTION BASIN. BIODEGRADABLE FILTER SOCKS MAY REMAIN.

CONSTRUCTION NOTES CONTINUED:

- 14. THE CONTRACTOR SHALL USE DESIGNATED LOCATIONS WITHIN THE ESTABLISHED LIMITS OF DISTURBANCE TO ACCESS THE SITE.
15. DUST CONTROL PROCEDURES AND PRACTICES SHALL BE USED TO SUPPRESS DUST DURING THE CONSTRUCTION PROCESS. EXAMPLES OF DUST CONTROL MEASURES INCLUDE WATER TREATMENT, MULCH, AND TEMPORARY VEGETATION.
16. CARE SHOULD BE TAKEN TO THE BEST OF THE OPERATOR'S ABILITY TO AVOID DISTURBING LARGE AREAS PRIOR TO ANTICIPATED PRECIPITATION EVENTS. AT A MINIMUM, STORM EVENTS MUST BE MONITORED AND TRACKED IN ORDER TO DETERMINE WHEN POST-STORM EVENT INSPECTIONS MUST BE CONDUCTED. INSPECTIONS MUST BE CONDUCTED AND DOCUMENTED 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 AND/OR AFTER A SIGNIFICANT AMOUNT OF RUNOFF OR SNOWMELT.
17. NO TOPSOIL OR PRIME AGRICULTURAL SOIL, AS DEFINED IN CHAPTER 18.08 OF THE TOWN OF RICHMOND ZONING CODE ORDINANCE, SHALL BE REMOVED FROM THE SITE FOR INSTALLATION OF THE FACILITY.
18. ONCE GRADED, THE QUALIFIED PERVIOUS AREAS (OPA) SHOWN ON DRAWING C-2 SHALL BE SURROUNDED WITH A SNOW FENCE. CONSTRUCTION VEHICLES MUST NOT DRIVE OVER THE AREA UNLESS REQUIRED TO ACCESS THE LAYDOWN AREA. IF THE SOIL WITHIN THE OPA BECOMES COMPACTED, IT MUST BE SUITABLY AMENDED, TILLED, AND RE-VEGETATED ONCE CONSTRUCTION IS COMPLETE TO RESTORE INFILTRATION CAPACITY.
19. FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, AND OTHER DELETERIOUS MATERIAL.

SEDIMENTATION & EROSION CONTROL NOTES:

- 1. THE CONTRACTOR IS REQUIRED TO REVIEW AND IMPLEMENT THE SOIL EROSION AND SEDIMENT CONTROL PLAN THROUGHOUT CONSTRUCTION. THE PLAN MUST BE MAINTAINED AT THE SITE. IT IS THE OPERATOR'S RESPONSIBILITY TO MANAGE THE SITE DURING EACH CONSTRUCTION PHASE SO AS TO PREVENT POLLUTANTS FROM LEAVING THE SITE. THIS MAY REQUIRE THE CONTRACTOR TO REVISE AND AMEND THE SESC PLAN DURING CONSTRUCTION TO ADDRESS VARYING SITE AND/OR WEATHER CONDITIONS, SUCH AS BY ADDING OR REALIGNING EROSION OR SEDIMENT CONTROLS TO ENSURE THE SESC PLAN REMAINS COMPLIANT WITH THE RIDOT CONSTRUCTION GENERAL PERMIT.
2. EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN HEREIN OR AS DIRECTED BY THE ENGINEER.
3. PERIMETER SOIL AND EROSION CONTROLS SHALL BE PLACED PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN THE TRIBUTARY WATERSHED. CONTRACTOR TO NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES. ALL SOIL AND EROSION CONTROLS SHALL BE CHECKED AND REPAIRED AS NECESSARY.
4. ALL TEMPORARY EROSION, RUNOFF, SEDIMENT, AND POLLUTION PREVENTION CONTROL MEASURES SHALL BE INSTALLED BY THE TIME EACH PHASE OF EARTH DISTURBANCE HAS BEGUN.
5. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EACH STORM EVENT GREATER THAN 0.25 INCHES OF RAINFALL. ALL DAMAGED FILTER SOCKS SHALL BE REPLACED. ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES TO PREVENT OFF-SITE TRACKING OF EARTH, SEDIMENT AND DEBRIS.
7. INITIATE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE AREA HAS TEMPORARILY OR PERMANENTLY CEASED. ANY DISTURBED AREA THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN 14 DAYS MUST BE STABILIZED IN ACCORDANCE WITH THE RI SESC HANDBOOK USING STRAW MULCH, TEMPORARY SEEDING, OR PERMANENT SEEDING.
8. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF FOUR INCHES OF LOAM PLACED BEFORE BEING PERMANENTLY SEEDDED AND MULCHED. EXISTING LOAM TO BE REUSED SHALL BE FREE OF DEBRIS. LOAM FROM AN OFF SITE BORROW SOURCE SHALL BE SAMPLED AND APPROVED FOR USE BY THE ENGINEER PRIOR TO ITS DELIVERY TO THE SITE.
9. EROSION CONTROL MEASURES SHALL BE REMOVED WHEN THE DISTURBED AREA IS STABILIZED OR AS SPECIFIED BY THE ENGINEER. DISTURBED AREA RESULTING FROM THE FILTER SOCK REMOVAL OPERATION SHALL BE PERMANENTLY SEEDDED. ALL ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.
10. TEMPORARY STRAW MULCH OR TEMPORARY EROSION CONTROL BLANKETS SHALL BE USED WHERE NON-VEGETATIVE COVER IS REQUIRED FOR A PERIOD GREATER THAN 14 DAYS BUT LESS THAN SIX MONTHS. MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MACHINE RESULTING IN 100% COVERAGE OF THE DISTURBED SOIL. IF ANCHORING IS NECESSARY, TACKIFIERS AND/OR NETTING EITHER WITH THE MULCH OR IMMEDIATELY FOLLOWING MULCH APPLICATION SHALL BE USED.
11. TEMPORARY SEEDING SHALL BE USED WHERE VEGETATIVE COVER IS REQUIRED FOR A PERIOD GREATER THAN ONE MONTH BUT LESS THAN TWELVE MONTHS ON DISTURBED SOIL AREAS. RAPIDLY GROWING ANNUAL GRASSES WILL BE UNIFORMLY APPLIED AT THE RATE ASSOCIATED WITH HYDRAULIC APPLICATION (HYDROSEEDING). THE SITE SHALL BE CHECKED PERIODICALLY TO ASSESS THE GROWTH OF THE PLANTS. IF SEEDING FAILS TO GROW, THE AREA SHALL BE RE-ESTABLISHED TO PROVIDE ADEQUATE EROSION CONTROL. THE SEED MIXTURE SHALL BE RIDOT TEMPORARY SEED MIX (M18.10.5), OR APPROVED EQUIVALENT.
12. PERMANENT SEEDING SHALL BE USED ON AREAS WHERE PERMANENT VEGETATIVE COVER IS NEEDED TO STABILIZE THE SOIL AND REDUCE EROSION AND SEDIMENTATION. RAPIDLY GROWING ANNUAL GRASSES SHALL BE UNIFORMLY APPLIED AT THE RATE ASSOCIATED WITH HYDRAULIC APPLICATION (HYDROSEEDING). THE SEED MIXTURE TO BE USED FOR PERMANENT STABILIZATION ARE SHOWN HEREIN.
13. SEEDING SHALL OCCUR PRIOR TO OCTOBER 15TH. AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15TH, MUST BE STABILIZED THROUGH THE USE OF NON-VEGETATIVE EROSION CONTROL MEASURES. AREAS SEEDDED BETWEEN MAY 15TH AND AUGUST 15TH SHALL BE COVERED WITH STRAW MULCH. DURING THESE MONTHS, TEMPORARY AND PERMANENT SEEDDED AREAS SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING.
14. TREATMENT CHEMICALS SHALL NOT BE APPLIED.

GENERAL PHOTOVOLTAIC SOLAR ENERGY SYSTEM (PSES) NOTES:

- 1. ALL PSES EQUIPMENT SHALL USE MATERIALS, COLORS, AND TEXTURES THAT WILL BLEND INTO THE NATURAL SETTING AND EXISTING ENVIRONMENT.
2. ALL PSES EQUIPMENT SHALL BE DESIGNED TO AVOID OR MITIGATE ANY DISRUPTION, INTERFERENCES WITH, OR LOSS OF RADIO, TELEPHONE, TELEVISION OR SIMILAR SIGNALS.
3. THE CONSTRUCTION OF ALL PROPOSED PSES EQUIPMENT SHALL BE CONSISTENT WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
4. ALL PRECAUTIONS SHALL BE TAKEN TO PROTECT NEIGHBORING PROPERTIES FROM EXPOSURE TO ANY RADIATION PRODUCED AS A RESULT OF THE PSES.

UTILITIES NOTES:

- 1. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
2. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY COMPANIES, IN WRITING, A MINIMUM OF 72 HOURS PRIOR TO ANY CONSTRUCTION WITHIN 15 FEET OF A UTILITY LINE.
3. EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT DIGSAFE, NOTIFY ALL NON-MEMBER UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
4. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OR JURISDICTION OF THE UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, WATER, GAS AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE WORK TO BE PERFORMED UNDER THIS CONTRACT.
5. UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES.
6. IF REQUIRED, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
7. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.

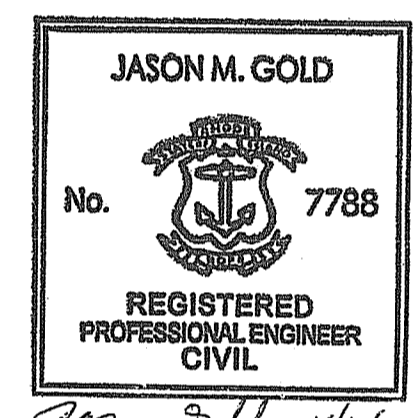
DETENTION BASIN NOTES:

- 1. ALL WORK ON PERMANENT DETENTION BASIN STRUCTURES SHALL BE CARRIED OUT IN AREAS FREE FROM WATER. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL TEMPORARY DIKES, LEVEES, COFFERDAMS, DRAINAGE CHANNELS, AND DIVERSION SWALES AS NECESSARY TO PROTECT THE AREAS TO BE OCCUPIED BY THE DETENTION BASIN.
2. THE CONTRACTOR SHALL ALSO FURNISH, INSTALL, OPERATE, AND MAINTAIN ALL NECESSARY PUMPING AND OTHER EQUIPMENT REQUIRED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE WORK AND FOR MAINTAINING THE EXCAVATIONS, FOUNDATION, AND OTHER PARTS OF THE WORK FREE FROM WATER AS REQUIRED OR DIRECTED BY THE ENGINEER FOR CONSTRUCTING EACH PART OF THE WORK. AFTER HAVING SERVED THEIR PURPOSE, ALL TEMPORARY PROTECTIVE WORKS SHALL BE REMOVED OR LEVELED AND GRADED TO THE EXTENT REQUIRED TO PREVENT OBSTRUCTION IN ANY DEGREE WHATSOEVER OF THE FLOW OF WATER TO THE SPILLWAY OR OUTLET WORKS AND SO AS NOT TO INTERFERE IN ANY WAY WITH THE OPERATION OR MAINTENANCE OF THE STRUCTURE. THE REMOVAL OF WATER FROM THE REQUIRED EXCAVATION AND THE FOUNDATION SHALL BE ACCOMPLISHED IN A MANNER AND TO THE EXTENT THAT WILL MAINTAIN STABILITY OF THE EXCAVATED SLOPES AND BOTTOM REQUIRED EXCAVATIONS AND WILL ALLOW SATISFACTORY PERFORMANCE OF ALL CONSTRUCTION OPERATIONS. DURING THE PLACING AND COMPACTING OF MATERIAL IN REQUIRED EXCAVATIONS, THE WATER LEVEL AT THE LOCATIONS BEING REFILLED SHALL BE MAINTAINED BELOW THE BOTTOM OF THE EXCAVATION AT SUCH LOCATIONS WHICH MAY REQUIRE DRAINING THE WATER SUMPS FROM WHICH THE WATER SHALL BE PUMPED.
3. ALL EXCAVATED AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SLIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING IN ACCORDANCE WITH LOCAL NATURAL RESOURCES CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS.
4. THE RCP OUTLET PIPE SHALL BE LAID IN A CONCRETE BEDDING / CRADLE FOR ITS ENTIRE LENGTH. THIS BEDDING / CRADLE SHALL CONSIST OF HIGH SLUMP CONCRETE PLACED UNDER THE PIPE AND UP THE SIDES OF THE PIPE AT LEAST 50% OF ITS OUTSIDE DIAMETER WITH A MINIMUM THICKNESS OF 6 INCHES. WHERE A CONCRETE CRADLE IS NOT NEEDED FOR STRUCTURAL REASONS, FLOWABLE FILL MAY BE USED AS DESCRIBED IN NOTE 5 BELOW. GRAVEL BEDDING IS NOT PERMITTED.
5. BACKFILL ADJACENT TO PIPES OR STRUCTURES SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE ADJOINING FILL MATERIAL. THE FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL NEEDS TO FILL COMPLETELY ALL SPACES UNDER AND ADJACENT TO THE PIPE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A CONCRETE STRUCTURE OR PIPE, UNLESS THERE IS A COMPACTED FILL OF 24 INCHES OR GREATER OVER THE STRUCTURE OR PIPE. STRUCTURE BACKFILL MAY BE FLOWABLE FILL MEETING THE REQUIREMENTS OF THE FEDERAL HIGHWAY ADMINISTRATION STANDARDS. THE MIXTURE SHALL HAVE A 100-200 PSI, 28-DAY UNCONFINED COMPRESSIVE STRENGTH. THE FLOWABLE FILL SHALL HAVE A MINIMUM PH OF 4.0 AND A MINIMUM RESISTIVITY OF 2,000 OHM-CM. MATERIAL SHALL BE PLACED SUCH THAT A MINIMUM OF 6 INCHES (MEASURED PERPENDICULAR TO THE OUTSIDE OF THE PIPE) OF FLOWABLE FILL SHALL BE UNDER (BEDDING), OVER AND, ON THE SIDES OF THE PIPE. IT ONLY NEEDS TO EXTEND UP TO THE SPRING LINE FOR RIGID CONDUITS. AVERAGE SLUMP OF THE FILL SHALL BE 7 INCHES TO ASSURE FLOWABILITY OF THE MATERIAL. ADEQUATE MEASURES SHALL BE TAKEN (SAND BAGS, ETC.) TO PREVENT FLOATING THE PIPE. WHEN USING FLOWABLE FILL, ALL METAL PIPE SHALL BE BITUMINOUS COATED. ANY ADJOINING SOIL FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED 4 INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER MANUALLY DIRECTED COMPACTION EQUIPMENT. THE MATERIAL SHALL COMPLETELY FILL ALL Voids ADJACENT TO THE FLOWABLE FILL ZONE. AT NO TIME DURING THE BACKFILLING OPERATION SHALL DRIVEN EQUIPMENT BE ALLOWED TO OPERATE CLOSER THAN FOUR FEET, MEASURED HORIZONTALLY, TO ANY PART OF A STRUCTURE. UNDER NO CIRCUMSTANCES SHALL EQUIPMENT BE DRIVEN OVER ANY PART OF A STRUCTURE OR PIPE UNLESS THERE IS A COMPACTED FILL OF 24 INCHES OR GREATER OVER THE STRUCTURE OR PIPE. BACKFILL MATERIAL OUTSIDE THE STRUCTURAL BACKFILL (FLOWABLE FILL) ZONE SHALL BE OF THE TYPE AND QUALITY CONFORMING TO THAT SPECIFIED FOR THE CORE OF THE EMBANKMENT OR OTHER EMBANKMENT MATERIALS.

DOCUMENT USE

- 1. THESE PLANS AND THE CORRESPONDING CAD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE PREPARED BY ESS GROUP, INC., AND SHALL NOT BE USED, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED WRITTEN CONSENT OF ESS GROUP, INC. ANY UNAUTHORIZED USE, REUSE, MODIFICATION, OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT, SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO ESS GROUP, INC.
2. CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, OR DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS OR OWNER, BUT SHALL VERIFY LOCATIONS OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
3. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS, AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURER'S LITERATURE, SHOP DRAWINGS, AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF CONSTRUCTION PERMITS
FRESHFIELD PLANTATION
AS SPECIFIED IN THE PLAN OF APPROVAL
DATED JUL 18 2019
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

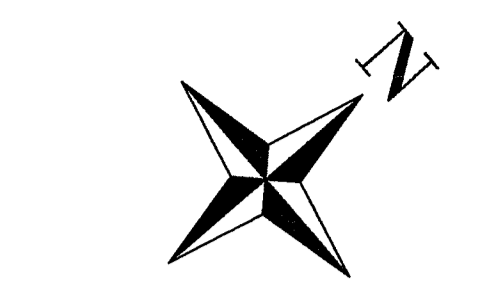
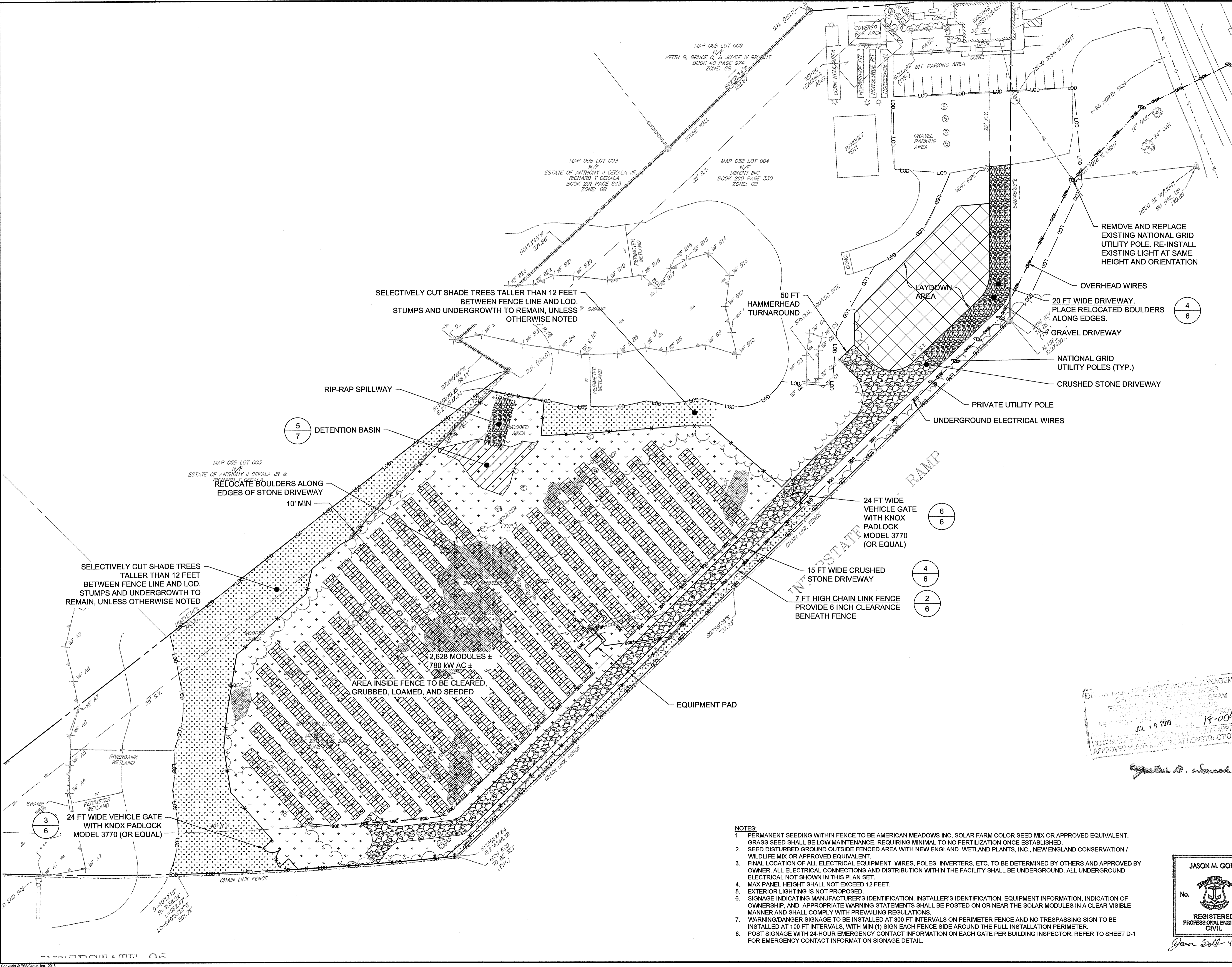


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environmental consulting & engineering services
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Waltham, Massachusetts 02451
p 781.419.7696
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Table with 2 columns: No., REVISION. Includes fields for DRAWN BY: PKN, CHECKED BY: JMG, DESIGNED BY: JMG, APPROVED BY: JMG.

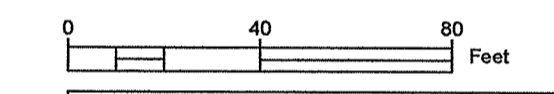
MAIN ST SOLAR
AP 5B LOT 4
1219 MAIN STREET
RICHMOND, RI
PROJECT No.: 0208-001
DATE OF ISSUE: 9/14/2018
SHEET No.: 2 OF 7
SCALE:
DRAWING No.
N-1

DATE: APR 25, 2019 - 3:37PM
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 PROJECT: Richmond Solar Construction
 DRAWING: 18-0092-001-001-001-001.dwg
 SHEET: 3 OF 7
 SCALE: 1"=40'
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LEGEND

- LOD LIMITS OF DISTURBANCE
- OHW OVERHEAD WIRES
- UGE UNDERGROUND ELECTRICAL
- CHAIN LINK FENCE
- PROPERTY LINE
- STONE DRIVEWAY
- GRAVEL DRIVEWAY
- PROPOSED GRASS LAND COVER
- DETENTION BASIN FOOTPRINT
- SHADE TREES TO BE REMOVED ONLY. DO NOT GRUB OR STUMP.
- MODULE AND SCREW LOCATION
- PRIVATE UTILITY POLE
- NATIONAL GRID UTILITY POLE



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APPROVED FOR CONSTRUCTION
 JUL 18 2019
 18-0092

No.	REVISION	DATE	APP BY
2	LAYOUT	4/25/19	JMG
1	ISSUED FOR CONSTRUCTION	4/18/19	JMG

DESIGNED BY: JMG CHECKED BY: JMG
 APPROVED BY: JMG

**MAIN ST SOLAR
 AP 5B LOT 4
 1219 MAIN STREET
 RICHMOND, RI**

LAYOUT AND MATERIALS

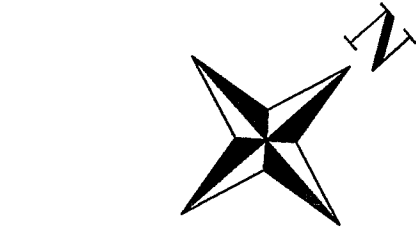
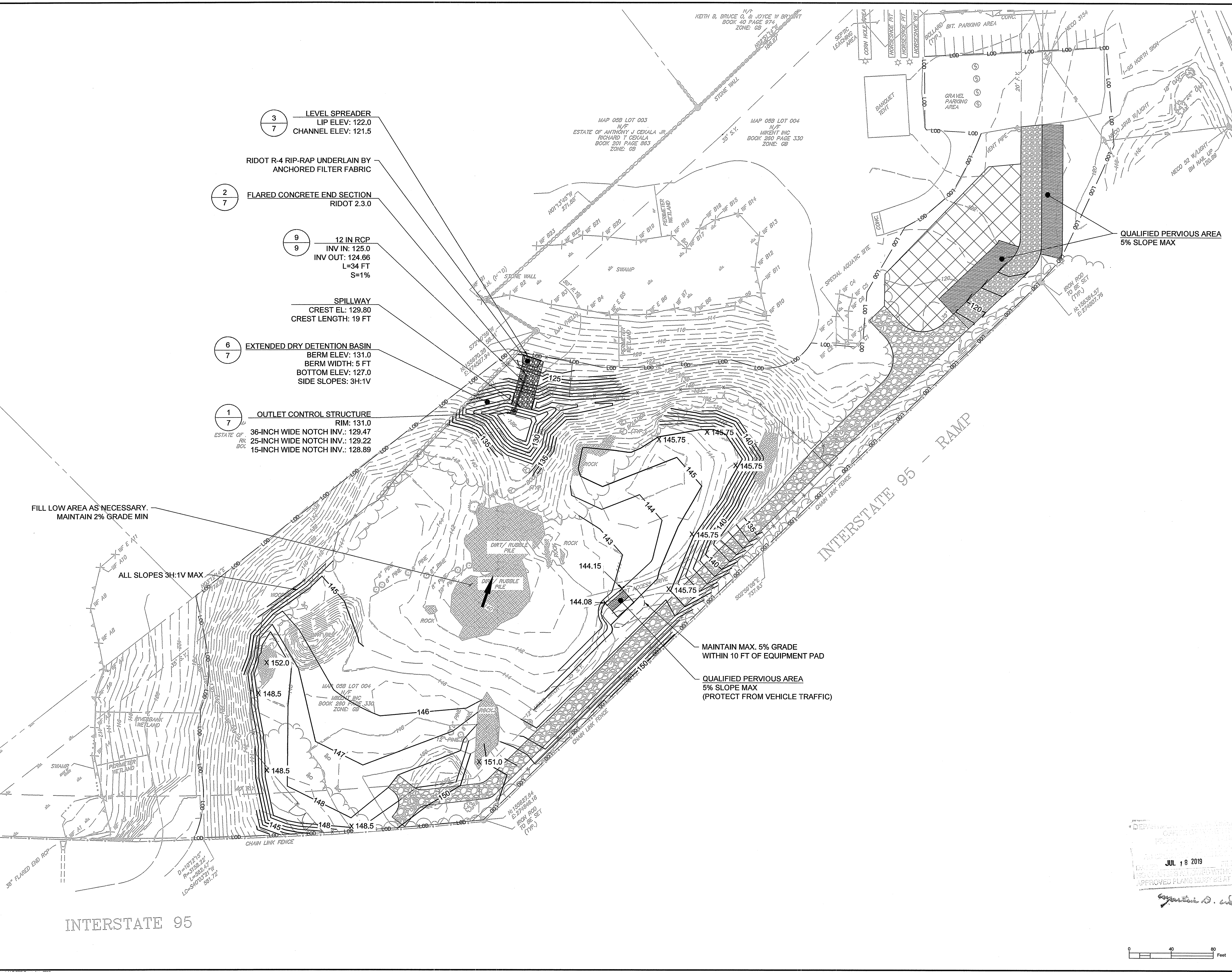
JASON M. GOLD
 No. 7788
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

Jason Gold 4/18/19

PROJECT No.: 0208-001	DRAWING No.
DATE OF ISSUE: 9/14/2018	C-1
SHEET No.: 3 OF 7	
SCALE: 1"=40'	

- NOTES:**
- PERMANENT SEEDING WITHIN FENCE TO BE AMERICAN MEADOWS INC. SOLAR FARM COLOR SEED MIX OR APPROVED EQUIVALENT. GRASS SEED SHALL BE LOW MAINTENANCE, REQUIRING MINIMAL TO NO FERTILIZATION ONCE ESTABLISHED.
 - SEED DISTURBED GROUND OUTSIDE FENCED AREA WITH NEW ENGLAND WETLAND PLANTS, INC., NEW ENGLAND CONSERVATION / WILDLIFE MIX OR APPROVED EQUIVALENT.
 - FINAL LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRES, POLES, INVERTERS, ETC. TO BE DETERMINED BY OTHERS AND APPROVED BY OWNER. ALL ELECTRICAL CONNECTIONS AND DISTRIBUTION WITHIN THE FACILITY SHALL BE UNDERGROUND. ALL UNDERGROUND ELECTRICAL NOT SHOWN IN THIS PLAN SET.
 - MAX PANEL HEIGHT SHALL NOT EXCEED 12 FEET.
 - EXTERIOR LIGHTING IS NOT PROPOSED.
 - SIGNAGE INDICATING MANUFACTURER'S IDENTIFICATION, INSTALLER'S IDENTIFICATION, EQUIPMENT INFORMATION, INDICATION OF OWNERSHIP, AND APPROPRIATE WARNING STATEMENTS SHALL BE POSTED ON OR NEAR THE SOLAR MODULES IN A CLEAR VISIBLE MANNER AND SHALL COMPLY WITH PREVAILING REGULATIONS.
 - WARNING/DANGER SIGNAGE TO BE INSTALLED AT 300 FT INTERVALS ON PERIMETER FENCE AND NO TRESPASSING SIGN TO BE INSTALLED AT 100 FT INTERVALS, WITH MIN (1) SIGN EACH FENCE SIDE AROUND THE FULL INSTALLATION PERIMETER.
 - POST SIGNAGE WITH 24-HOUR EMERGENCY CONTACT INFORMATION ON EACH GATE PER BUILDING INSPECTOR. REFER TO SHEET D-1 FOR EMERGENCY CONTACT INFORMATION SIGNAGE DETAIL.

DATE: Apr 16, 2019 - 4:17PM
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 PLOTORIENT: Landscape
 PLOTUNIT: Feet
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 PLOTSCALE: 1.0000
 PLOTORIENT: Landscape
 PLOTUNIT: Feet
 PLOTVALUE: 1.0000



LEGEND

- 145 — PROPOSED MAJOR CONTOUR
- 142 — PROPOSED MINOR CONTOUR
- LOD — LOD — LIMITS OF DISTURBANCE
- QUALIFIED PERVIOUS AREA
- X 145.75 SPOT GRADE

JASON M. GOLD

 No. 7788
REGISTERED PROFESSIONAL ENGINEER
CIVIL

Jason Gold 4/16/19

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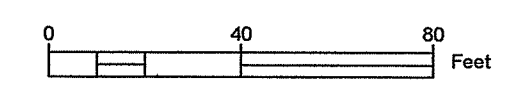
No.	REVISION	DATE	APP BY
1	ISSUED FOR CONSTRUCTION	4/16/2019	JMG

MAIN ST SOLAR
AP 5B LOT 4
1219 MAIN STREET
RICHMOND, RI

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF PERMITS & COMPLIANCE
 PERMITTING AND COMPLIANCE PROGRAM
 APPROVAL
 JUL 18 2019
 18-0092 GRADING AND DRAINAGE
 APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Signature

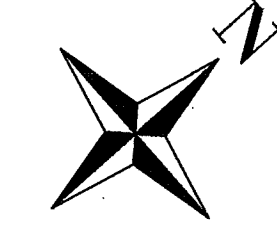
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DATE OF ISSUE: 9/14/2018	C-2
SHEET No.: 4 OF 7	
SCALE: 1"=40'	



INTERSTATE 95

INTERSTATE 95 - RAMP

DATE: Apr 16, 2019 - 4:19PM
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 DRAWN BY: PKN
 CHECKED BY: JMG
 DESIGNED BY: JMG
 APPROVED BY: JMG
 DATE OF ISSUE: 9/14/2018
 SHEET No.: 5 of 7
 SCALE: 1" = 40'
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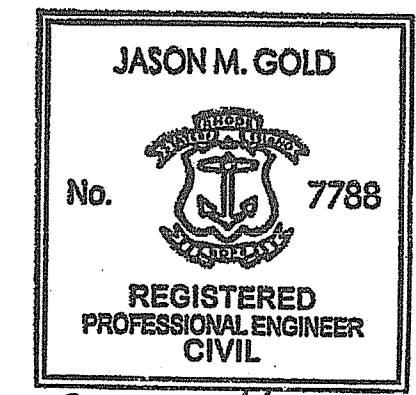


LEGEND

- LOD — LOD — LIMITS OF DISTURBANCE
- FS — FS — 8-INCH FILTER SOCK

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 18 2019 FILE # 18-0092
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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Jason M. Gold



Jason M. Gold 4/16/19



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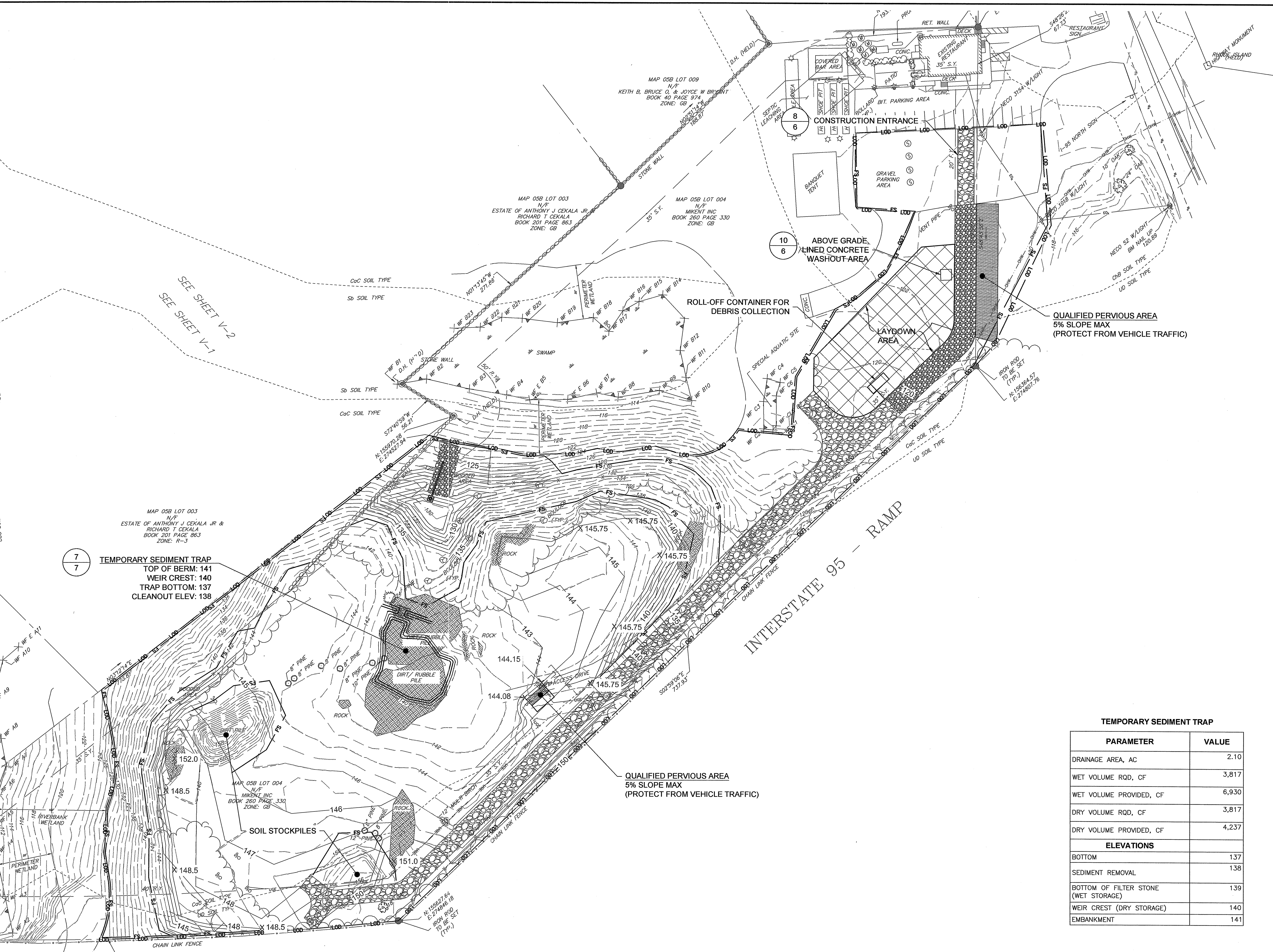
TEMPORARY SEDIMENT TRAP

PARAMETER	VALUE
DRAINAGE AREA, AC	2.10
WET VOLUME REQD, CF	3,817
WET VOLUME PROVIDED, CF	6,930
DRY VOLUME REQD, CF	3,817
DRY VOLUME PROVIDED, CF	4,237
ELEVATIONS	
BOTTOM	137
SEDIMENT REMOVAL	138
BOTTOM OF FILTER STONE (WET STORAGE)	139
WEIR CREST (DRY STORAGE)	140
EMBANKMENT	141

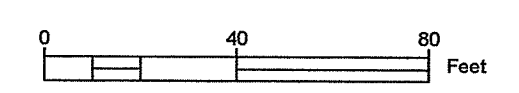
MAIN ST SOLAR
AP 5B LOT 4
1219 MAIN STREET
RICHMOND, RI

SESC PLAN

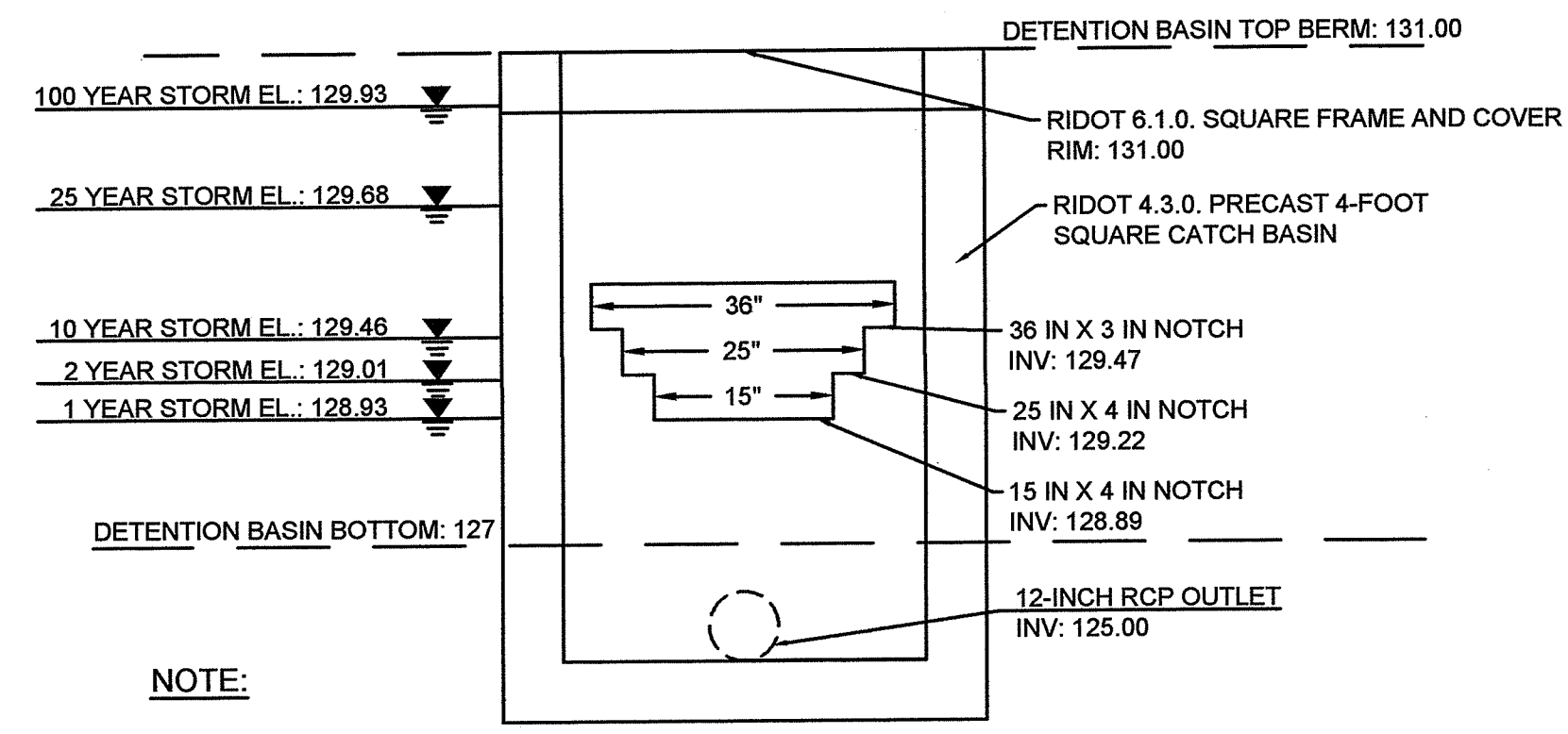
PROJECT No.: 0208-001
 DATE OF ISSUE: 9/14/2018
 SHEET No.: 5 of 7
 SCALE: 1" = 40'
 DRAWING No.
C-3



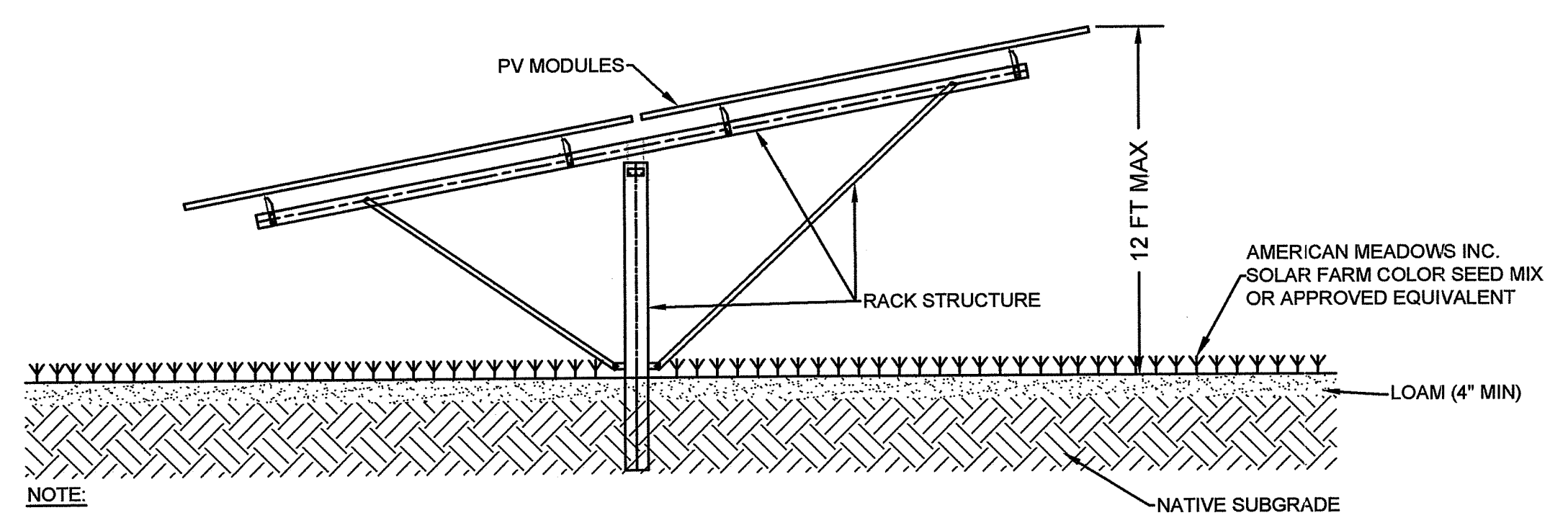
NOTES:
 1. LOCATION OF ROLL-OFF CONTAINER, CONCRETE WASHOUT AREA, AND SOIL STOCKPILE TO BE LOCATED AS FAR FROM WETLAND EDGE AS PRACTICAL. FINAL LOCATION TO BE DETERMINED BY CONTRACTOR AS APPROVED BY OWNER.



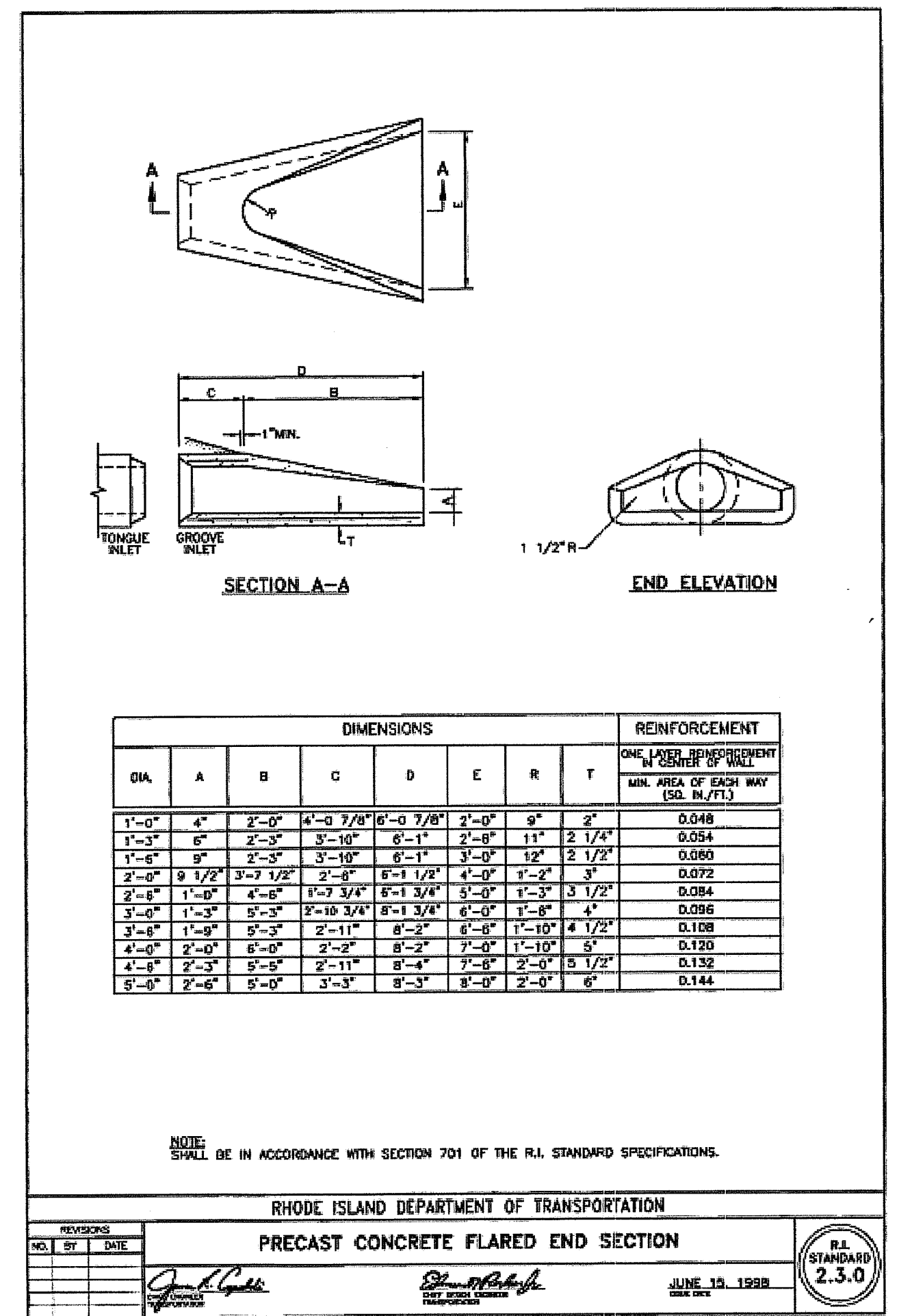
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 PLOT SHEET: 1 OF 7
 PLOT SHEET NO.: 7 OF 7
 PLOT SHEET SCALE: AS NOTED
 PLOT SHEET TITLE: RICHMOND SOLAR RCP DETAILS



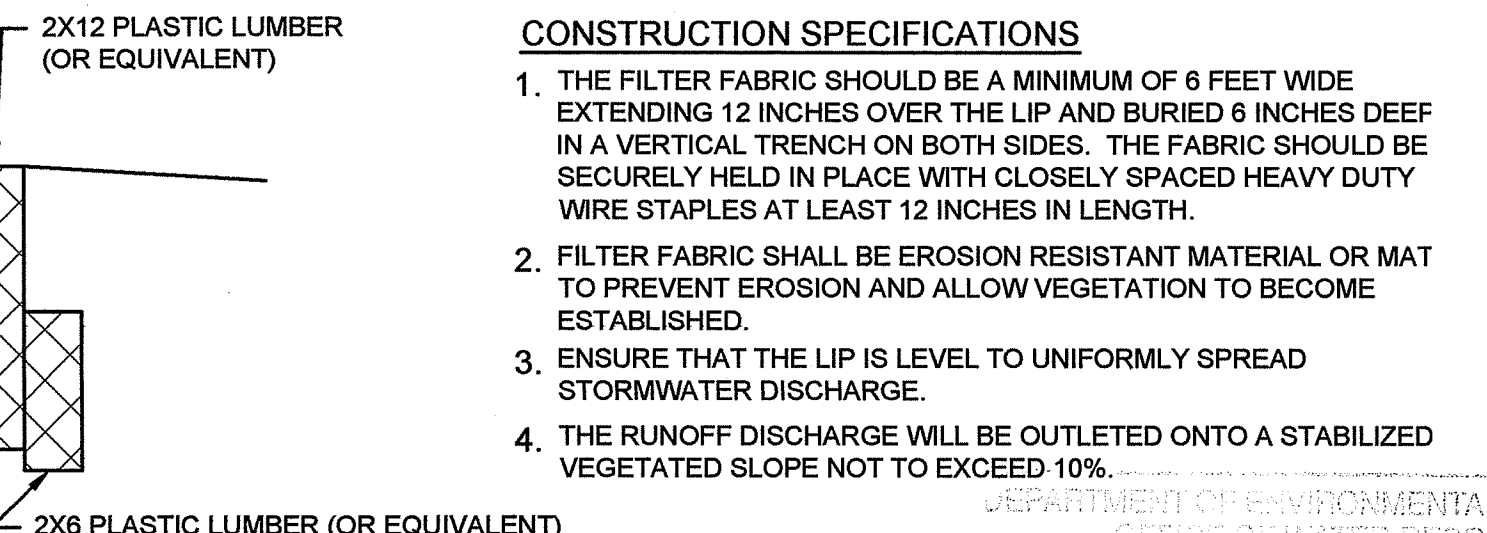
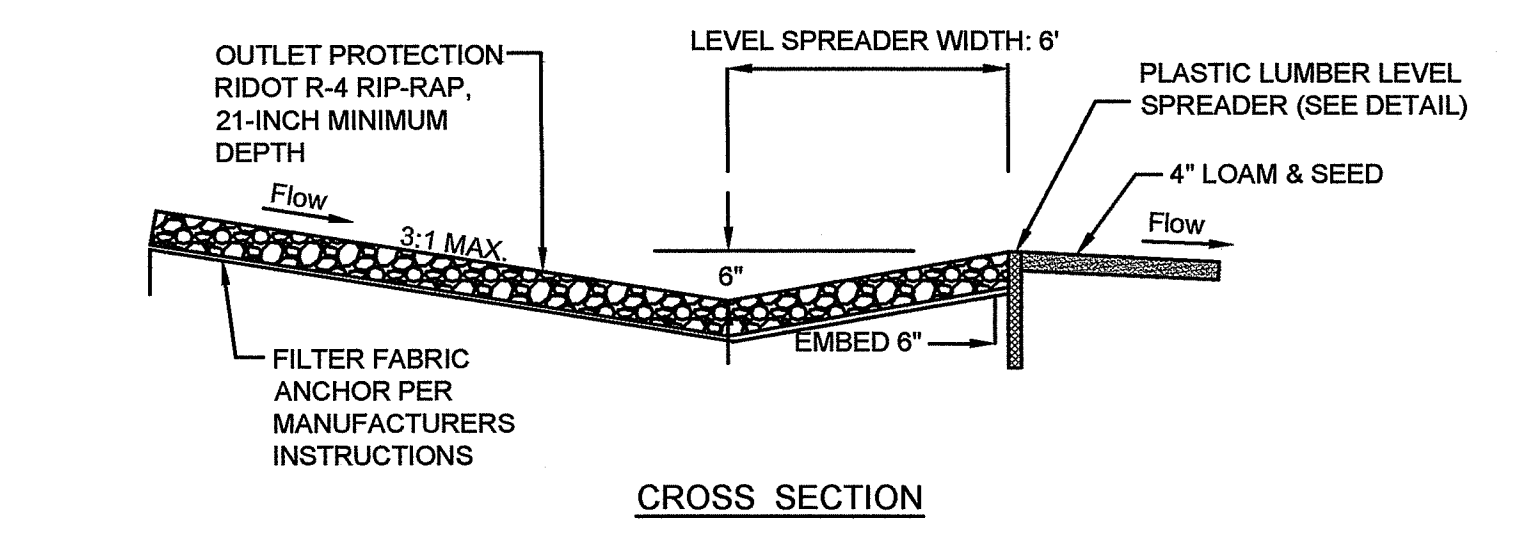
1 OUTLET CONTROL STRUCTURE
SCALE: NTS



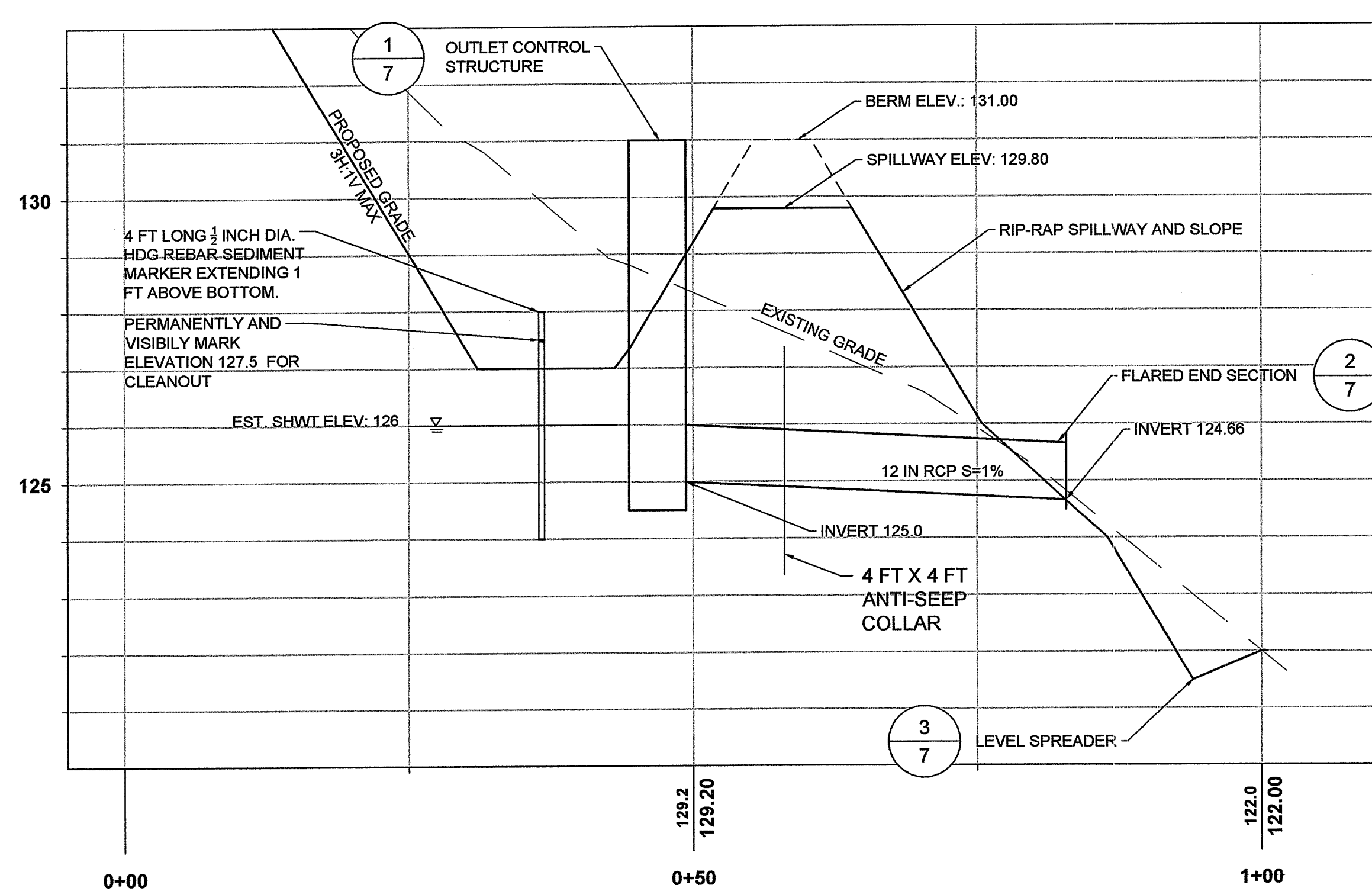
4 SOLAR PANEL AND RACK DETAIL
SCALE: NTS



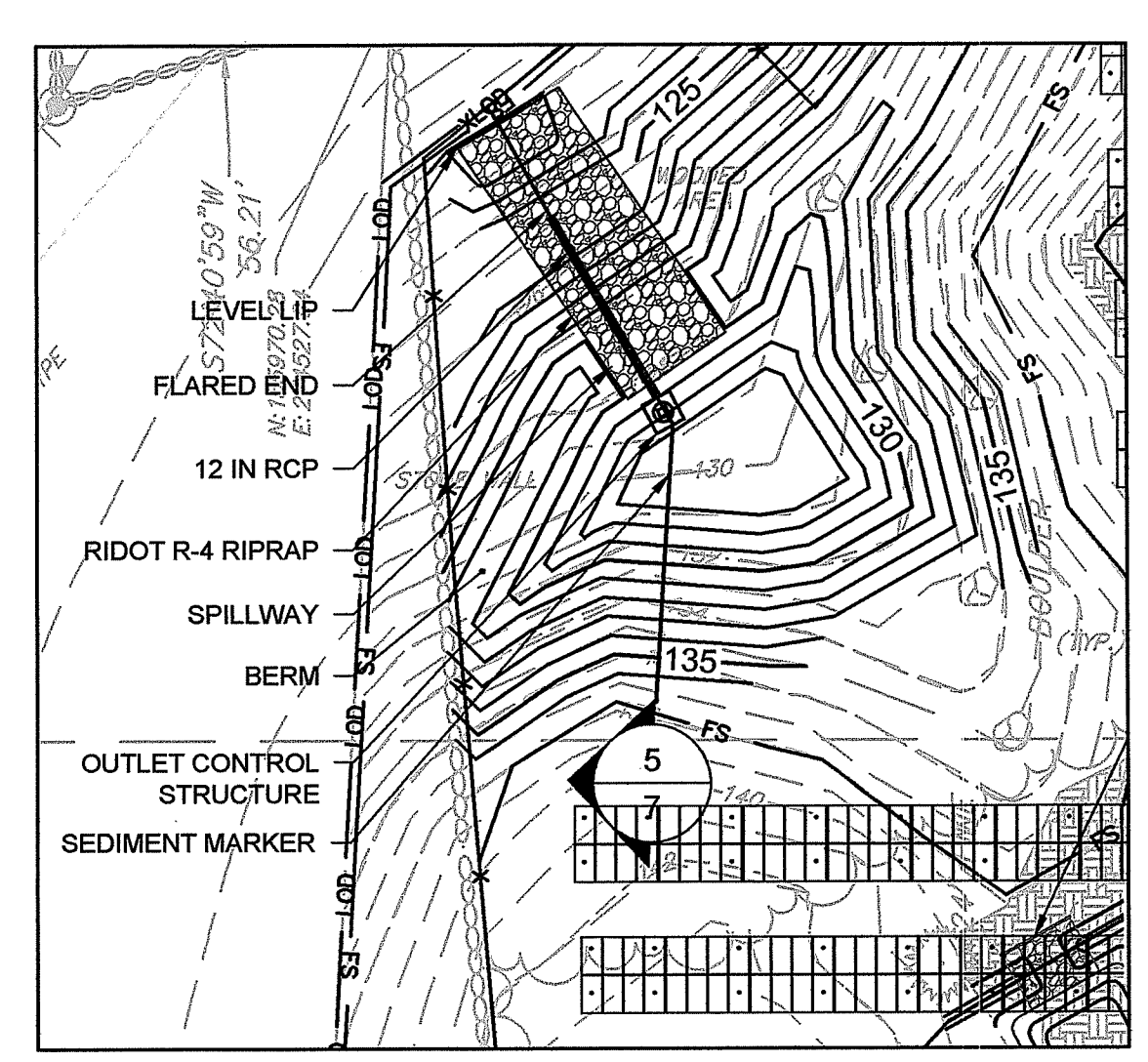
2 FLARED END SECTION
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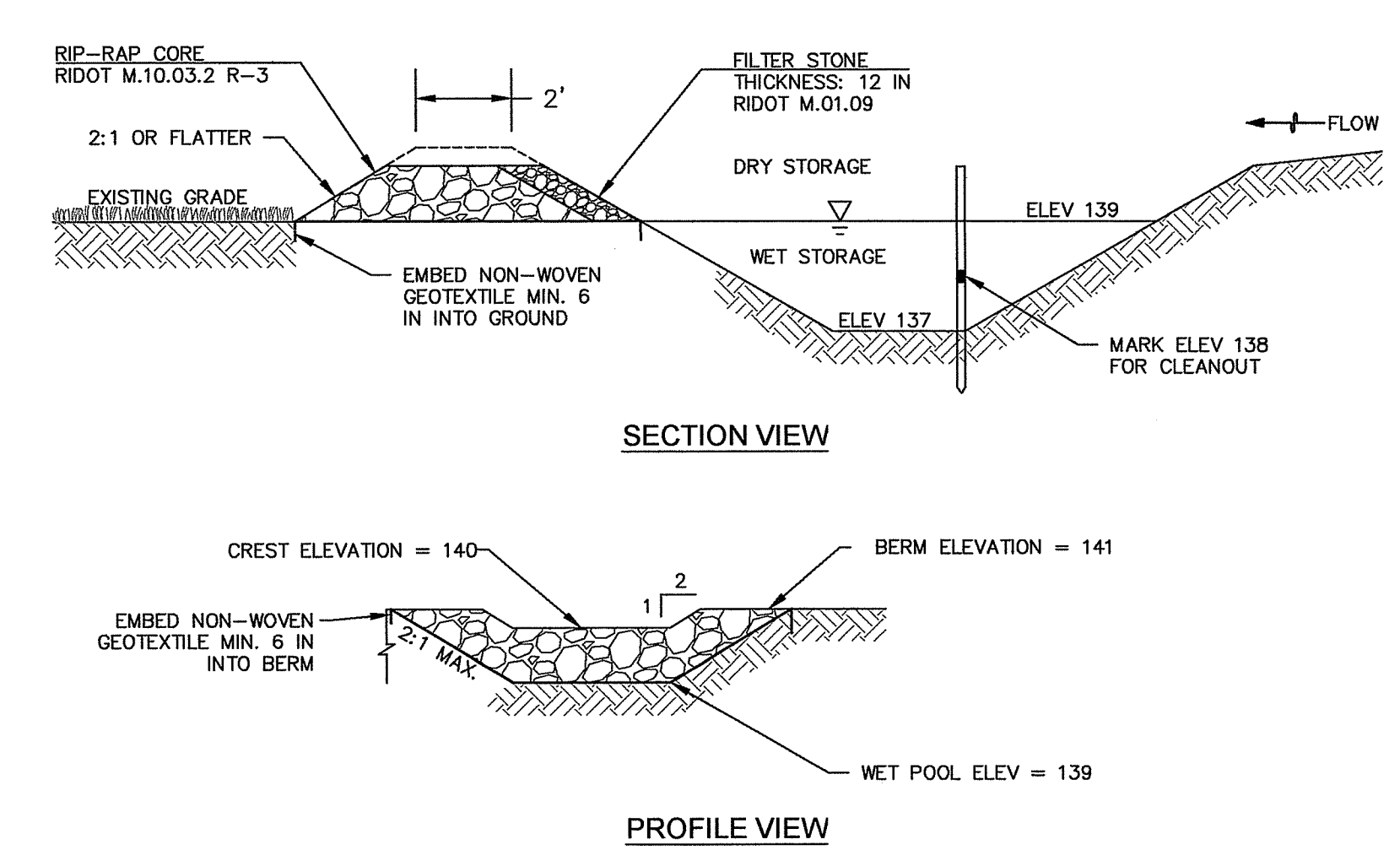
3 LEVEL SPREADER
SCALE: NTS



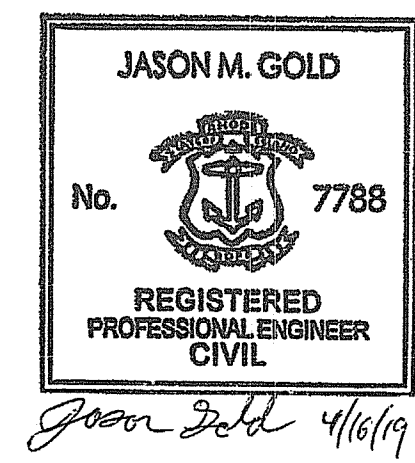
5 DETENTION BASIN PROFILE
SCALE: 1"=10'H, 1"=2' V



6 DETENTION BASIN PLAN VIEW
SCALE: 1"=30'



7 TEMPORARY SEDIMENT TRAP DETAIL
SCALE: NTS



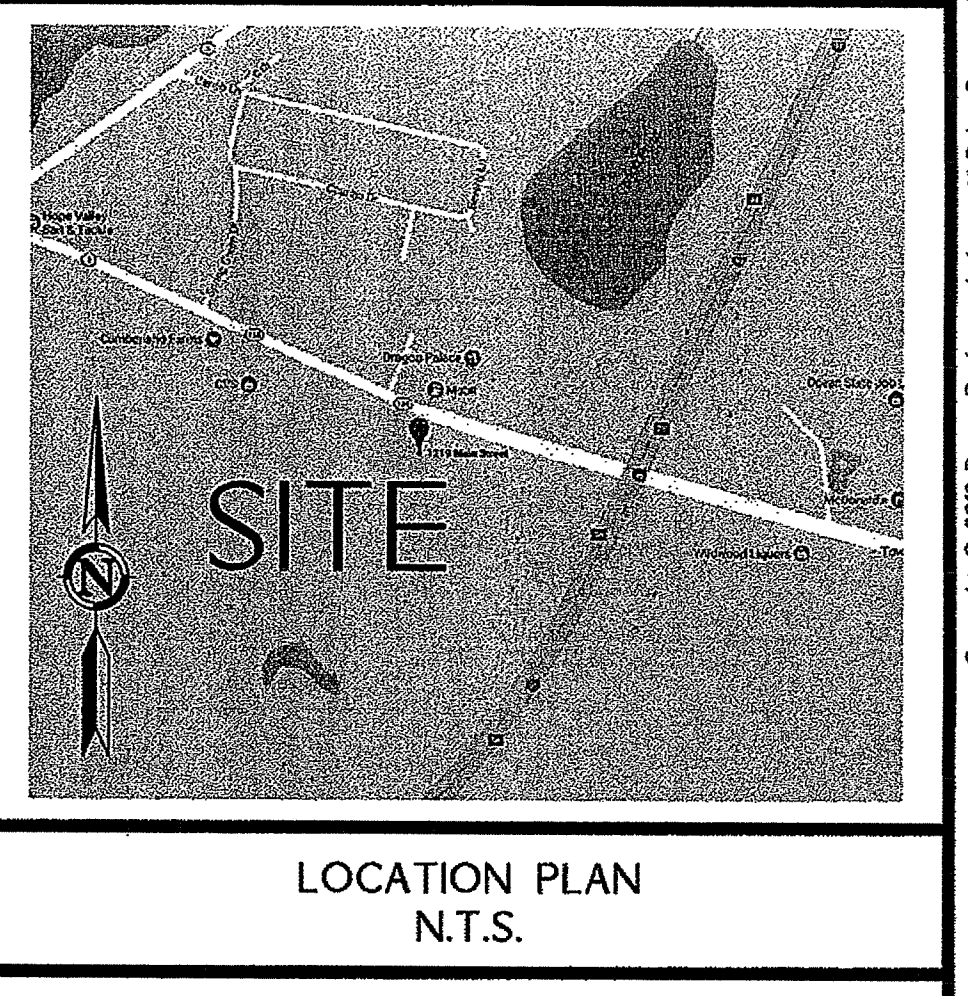
1	ISSUED FOR CONSTRUCTION	4/16/19	JMG
No.	REVISION	DATE	APP BY
DRAWN BY:	GR	CHECKED BY:	PRW
DESIGNED BY:	JMG	APPROVED BY:	JMG

**MAIN ST SOLAR
AP 5B LOT 4
1219 MAIN STREET
RICHMOND, RI**

DETAILS

PROJECT No.: 0208-001	DRAWING No.
DATE OF ISSUE: 9/14/2018	D-2
SHEET No.: 7 OF 7	
SCALE: AS NOTED	

EXISTING	DESCRIPTION
POWER	ELECTRICAL LINES, OVERHEAD
	UTILITY POLE
PROPERTY	PROPERTY LINE
	EASEMENT LINE
	IRON PIPE
	IRON ROD
	IRON ROD TO BE SET
	MONUMENT
ROADS	GUARD RAIL
	SIGN
SITE FEATURES	EDGE OF WATER
	BARBED WIRE FENCE
	CHAIN LINK FENCE
	RAIL FENCE
	STOCKADE FENCE
	WIRE FENCE
	TREE
	TREE LINE
	STAND PIPE
	BOULDER
	STONE WALL
STORM SEWER	STORM DRAIN PIPE
TOPOGRAPHY	CONTOUR
	SPOT ELEVATION
WETLANDS	WETLANDS LINE



USDA SOILS:
 CcC: CANTON-CHARLTON-ROCK OUTCROP COMPLEX
 ChB: CANTON AND CHARLTON FINE SANDY LOAMS
 CcK: CANTON AND CHARLTON FINE SANDY LOAMS
 HkC: HINCKLEY LOAMY SAND
 Ss: SCARBORO MUCKY FINE SANDY LOAM
 SuB: SUTTON VERY STONY FINE SANDY LOAM
 SwA: SWANSEA MUCK
 Ud: URBAN LAND
 W: WATER

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 18 2019 FILE # 18-0092
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

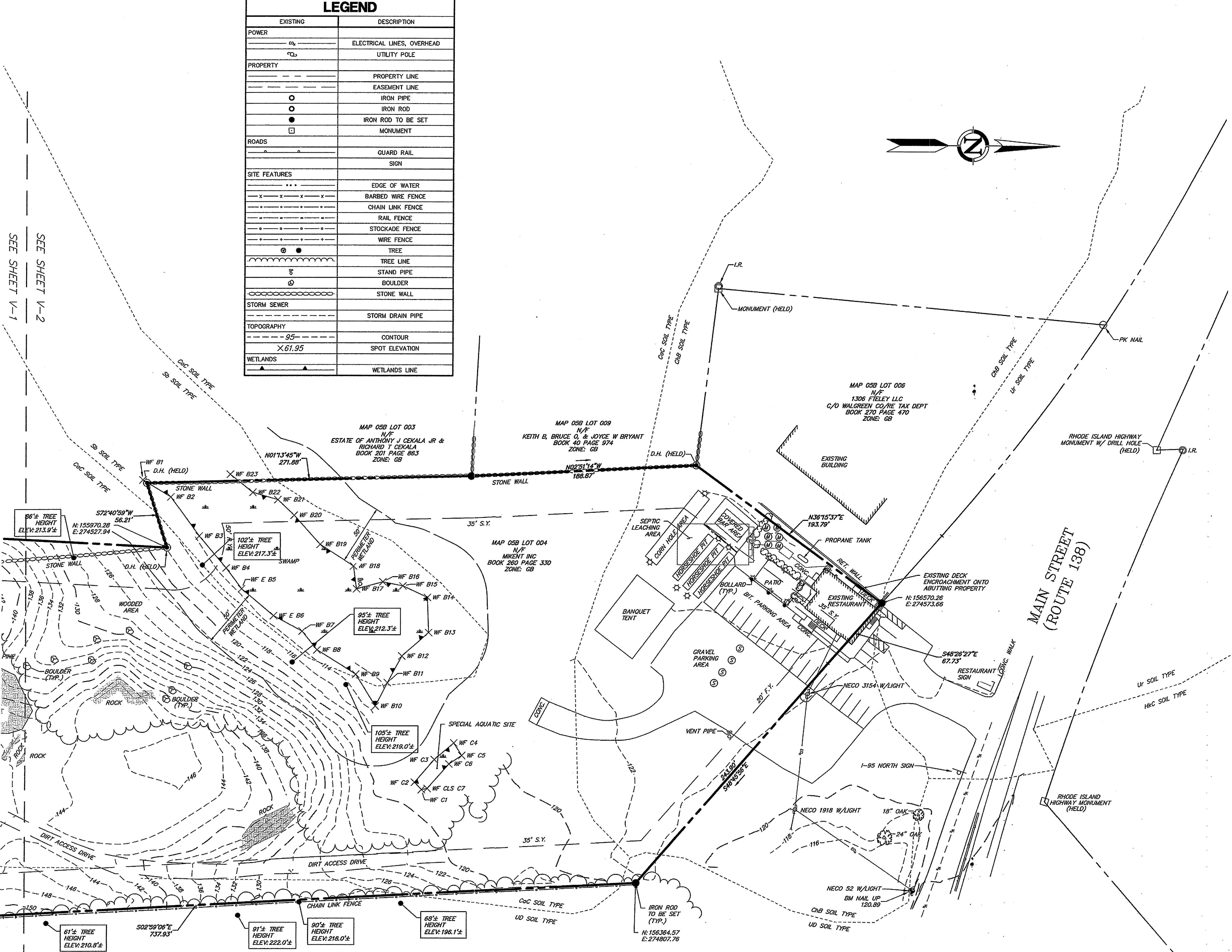
- NOTES:
1. PROPERTY IS IN THE GB (GENERAL BUSINESS) ZONE.
 2. PARCEL CONTAINS 36,318± SQUARE FEET OR 8.337 ACRES.
 3. THE FIELD SURVEY TO PERFORM A COMPREHENSIVE BOUNDARY SURVEY (CLASS 1) AND A DATA ACCUMULATION SURVEY (CLASS T-2) WERE PERFORMED ON JULY 18-25, 2017.
 4. HORIZONTAL DATUM IS BASED ON NAD83. VERTICAL DATUM IS BASED ON NAVD83.
 5. SOIL LINES DEPICTED ARE AS MAPPED BY THE USDA NATURAL RESOURCES CONSERVATION SERVICE.
 6. PARCEL IS LOCATED WITHIN THE NATURAL HERITAGE AREA #163. HOWEVER, NO OBSERVATIONS ON-SITE PER ESS GROUP, INC. COMMUNICATION WITH RIDEM ON 7/12/2017.
 7. PARCEL IS NOT LOCATED WITHIN COMMUNITY WELLDHE PROTECTION AREA/ NON-COMMUNITY WELLDHE PROTECTION AREA/ HISTORIC DISTRICT. THERE ARE NO VISIBLE HISTORIC STRUCTURES OR CEMETERIES ON SITE.
 8. ENTIRE PARCEL IS LOCATED WITHIN THE AQUIFER PROTECTION OVERLAY DISTRICT.
 9. WATER LINE DEPICTED ON PLAN IS BASED UPON INFORMATION FROM TOWN OF RICHMOND GIS.
 10. SEPTIC LEACHING AREA DEPICTED ON PLAN IS BASED ON MAP REFERENCE #5.
 11. WETLANDS AS DEPICTED ON THE MAP WERE FIELD DELINEATED BY ESS GROUP, INC. & FIELD LOCATED BY DESIGN PROFESSIONALS IN JULY, 2017.
 12. EXISTING RESTAURANT AS DEPICTED ON THE MAP IS EXISTING NON-COMFORMING TO TOWN OF RICHMOND ZONING REGULATIONS.
 13. PROPERTY DOES NOT FALL WITHIN THE LIMITS OF A FLOOD HAZARD ZONE AS DEPICTED ON: "FIRM FLOOD INSURANCE RATE MAP NUMBER 440900004H TOWN OF RICHMOND RHODE ISLAND WASHINGTON COUNTY PANEL 64 OF 368 COMMUNITY NUMBER 44031 EFFECTIVE DATE: OCTOBER 19, 2016 FEDERAL EMERGENCY MANAGEMENT AGENCY FEDERAL INSURANCE ADMINISTRATION.
 14. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD DRAWING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO DESIGN PROFESSIONALS, INC. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION.
 15. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" FOR UNDERGROUND UTILITY MARKING AT LEAST TWO FULL WORKING DAYS PRIOR TO START OF CONSTRUCTION: 1-800-922-4455 OR WWW.CBYD.COM.

- MAP REFERENCES:
1. RICHMOND KINGSTON ROAD A INTERSTATE HIGHWAY INTERCHANGE SCALE 30 FEET PER INCH 4 SHEETS PLAT NO. 850 RHODE ISLAND DEPARTMENT OF PUBLIC WORKS DIVISION OF ROADS AND BRIDGES.
 2. RICHMOND & HOPKINTON INTERSTATE HIGHWAY SOUTHERN NOOSENECK SECTION FROM BAKER ROAD TO CONNECTICUT LINE SCALE 1"=20' REVISION 10-21-98 BY ANTHONY V. GIOVANNI & ASSOCIATES.
 3. NEW CANOPY, ISLANDS AND STORE LAYOUT 1209 MAIN STREET RICHMOND, RHODE ISLAND SITE/LANDSCAPING PLAN DATE 10-30-97 SCALE 1"=20' REVISION 10-21-98 BY ANTHONY V. GIOVANNI & ASSOCIATES.
 4. WALGREENS SITE PLAN STORE NUMBER 11633 SCALE 1"=20' DATE: 07/19/07 REVISED TO 02/06/08 APPLICANT: MARK INVESTMENTS BY BOHLER ENGINEERING, P.C. & EDWARDS AND KELCEY.
 5. GREAT TRAIL PLANNING AND DESIGN RESTAURANT A.P. 59, LOT 4, MAIN STREET RICHMOND, RHODE ISLAND PREPARED FOR: MIKENT, INC. AUGUST, 2011 SCALE 1"=20' BY MILLSTONE ENGINEERING, P.C.

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:
 1. COMPREHENSIVE BOUNDARY SURVEY CLASS 1
 2. DATA ACCUMULATION SURVEY CLASS T-2
 THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: THE PURPOSE OF THE SURVEY IS TO DEPICT THE EXISTING PROPERTY LINES RELATIVE TO EXISTING IMPROVEMENTS ON AND IMMEDIATELY ADJACENT TO THE PROPERTY.

Lawrence R. Gessler, Jr. L.S. # 1905 DATE 7/2/2018

SEE SHEET V-1
 SEE SHEET V-2



INTERSTATE 95 - RAMP

TOWN OF RICHMOND, RHODE ISLAND
 RECEIVED FOR RECORD
 DATE: _____
 AT: _____ M.
 MAP # _____ SLIDE # _____
 Sarah S. Rapose
 Town Clerk

APPROVED BY THE PLANNING BOARD
 Chairperson/Secretary _____ Date: _____

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DESIGN PROFESSIONALS
 CIVIL & TRAFFIC ENGINEERS / PLANNERS / SURVEYORS
 GIS ANALYSTS / LANDSCAPE ARCHITECTS

PREPARED FOR:
 John Typadis
 Oak Square Partners
 119 Brantree St., Suite 211
 Boston, MA 02134

PROJECT NO. 3891
 DATE 7/2/2018
 SCALE 1"=40'

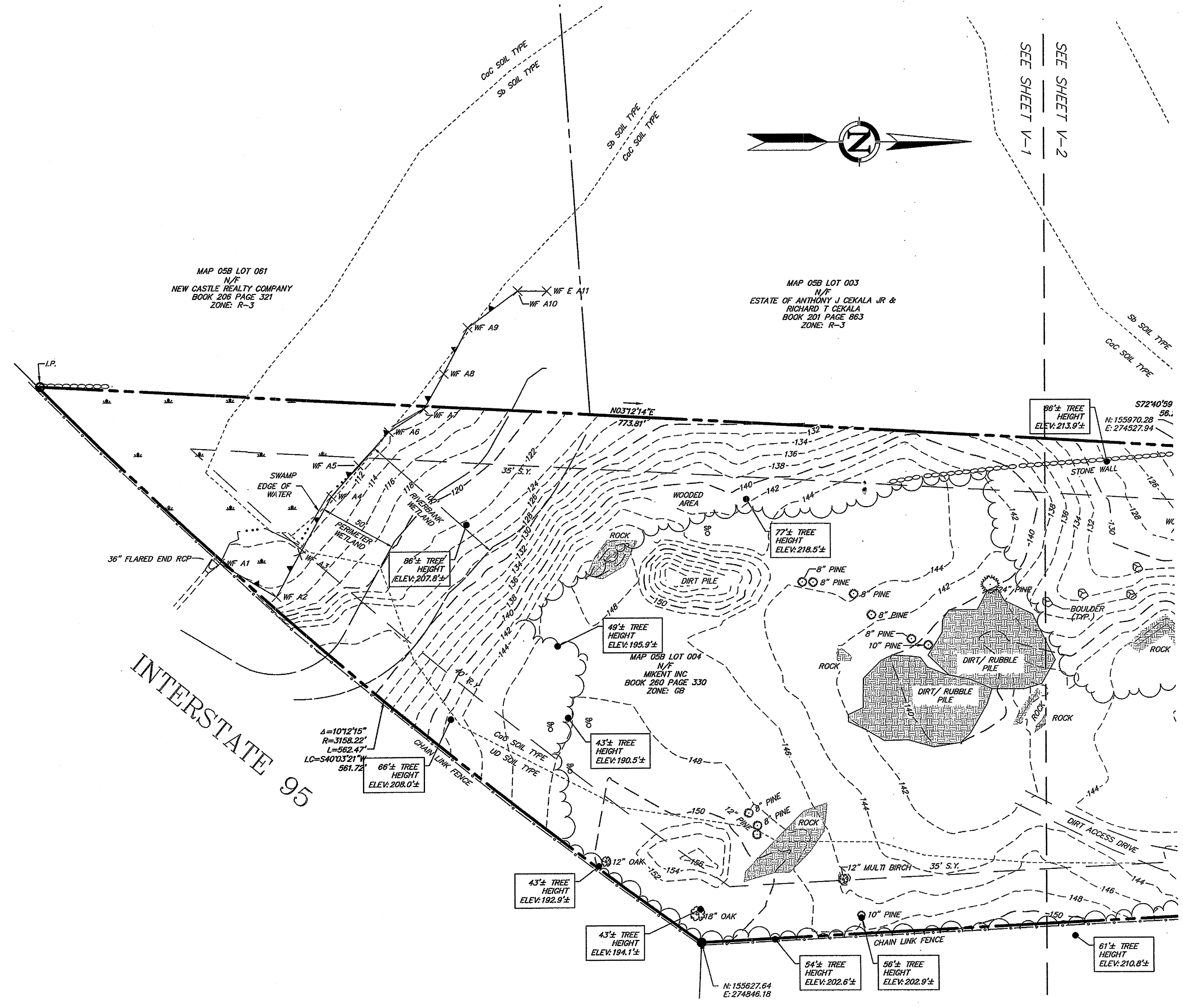
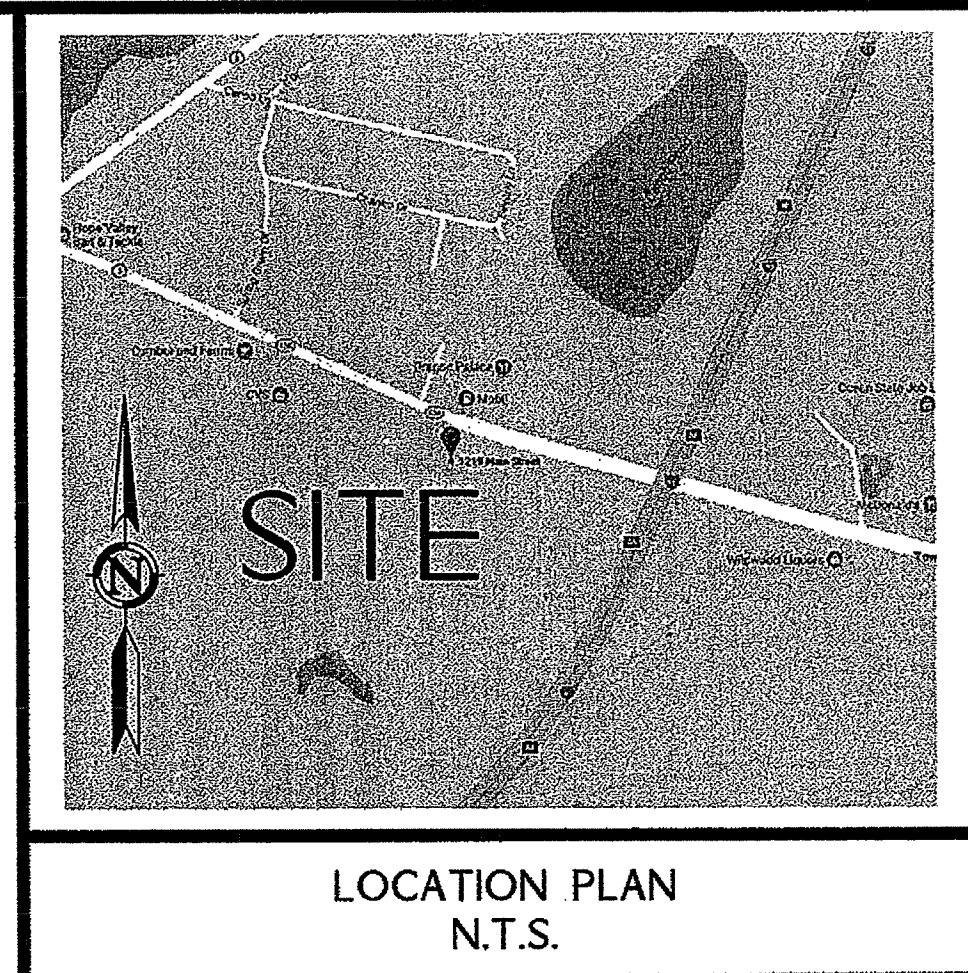
REVISIONS

NO.	DATE	ADD NOTES PER TOWN COMMENTS	RMB
1	6/16/2018		RMB
2	6/20/2018		RMB
3	6/29/2018		RMB

PROPERTY & TOPOGRAPHIC SURVEY
 SHEET V-1

Plotted 6/29/2018 11:40 AM
 Layout 6/29/2018 11:40 AM
 Last Saved By: RebeccaBoutin
 File: C:\work\3891\Survey\3891.dwg

LEGEND	
EXISTING	DESCRIPTION
—●—	ELECTRICAL LINES, OVERHEAD
—○—	UTILITY POLE
---	PROPERTY LINE
---	EASEMENT LINE
○	IRON PIPE
○	IRON ROD
●	IRON ROD TO BE SET
□	MONUMENT
---	ROADS
---	GUARD RAIL
---	SIGN
---	SITE FEATURES
---	EDGE OF WATER
---	BARBED WIRE FENCE
---	CHAIN LINK FENCE
---	RAIL FENCE
---	STOCKADE FENCE
---	WIRE FENCE
○	TREE
---	TREE LINE
---	STAND PIPE
○	BOULDER
○	STONE WALL
---	STORM SEWER
---	STORM DRAIN PIPE
---	TOPOGRAPHY
---	CONTOUR
---	SPOT ELEVATION
---	WETLANDS
---	WETLANDS LINE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 18 2019 FILE # 18-0092
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
RECEIVED BY: [Signature]

MAP REFERENCES:
1. RICHMOND KINGSTON ROAD AN INTERSTATE HIGHWAY INTERCHANGE SCALE 80 FEET PER INCH 4 SHEETS PLAT NO. 850 RHODE ISLAND DEPARTMENT OF PUBLIC WORKS DIVISION OF ROADS AND BRIDGES.
2. RICHMOND & HOPKINTON INTERSTATE HIGHWAY SOUTHERN NOOSENECK SECTION FROM BAKER ROAD TO CONNECTICUT LINE SCALE 80 FEET PER INCH 40 SHEETS SHEET NO 12 PLAT NO. 849 RHODE ISLAND DEPARTMENT OF PUBLIC WORKS DIVISION OF ROADS AND BRIDGES.
3. NEW CANOPY, ISLANDS AND STORE LAYOUT 1208 MAIN STREET RICHMOND, RHODE ISLAND SITE/LANDSCAPING PLAN DATE 10-30-97 SCALE 1"=20' REVISED TO 10-21-98 BY ANTHONY V. GIORDANO & ASSOCIATES.
4. WILGREENS SITE PLAN STORE NUMBER 11633 SCALE 1"=20' DATE: 07/19/07 REVISED TO 02/06/08 APPLICANT: MARK INVESTMENTS BY BOHLER ENGINEERING, P.C. & EDWARDS AND KELCEY
5. GREASE TRAP PLAN AND DETAILS PROPOSED RESTAURANT A.P. 5B, LOT 4, MAIN STREET RICHMOND, RHODE ISLAND PREPARED FOR: MIKENT, INC. AUGUST, 2011 SCALE 1"=20' BY MILLSTONE ENGINEERING, P.C.

NO.	DATE	REVISIONS
1	6/18/2018	ADD NOTES PER TOWN COMMENTS
2	6/20/2018	REVISE PER TOWN COMMENTS
3	6/27/2018	REVISE PER TOWN COMMENTS

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:
a. COMPREHENSIVE BOUNDARY SURVEY CLASS I
DATA ACCUMULATION SURVEY CLASS T-2
THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: THE PURPOSE OF THE SURVEY IS TO DEPICT THE EXISTING PROPERTY LINES RELATIVE TO EXISTING IMPROVEMENTS ON AND IMMEDIATELY ADJACENT TO THE PROPERTY.
Lawrence R. Geisler, Jr.
LAWRENCE R. GEISLER, JR. L.S. # 1905 DATE 7/2/2018

TOWN OF RICHMOND, RHODE ISLAND
RECEIVED FOR RECORD

DATE: _____
AT: _____ M.
MAP #: _____ SLIDE # _____

APPROVED BY THE PLANNING BOARD
Chairperson/Secretary _____ Date: _____
Town Clerk _____

21 HEBERT ST. SUITE 202
SOUTH WINDSOR, CT 06074
860-294-8785 - T
www.dsgprofessionals.com

Design Professionals
CIVIL & TRAFFIC ENGINEERS / PLANNERS / SURVEYORS
GIS ANALYSTS / LANDSCAPE ARCHITECTS

PREPARED FOR:
John Typadis
Oak Square Partners
119 Brantree St., Suite 211
Boston, MA 02134

PROJECT NO.: 3891
DATE: 8/7/2017
DESIGN BY: [Signature]
CHECKED BY: [Signature]
SCALE: AS SHOWN

OAK SQUARE PARTNERS
1219 MAIN STREET
RICHMOND, RHODE ISLAND

BY: [Signature]
DATE: 7/2/2018

PROPERTY & TOPOGRAPHIC SURVEY
SCALE: 1" = 40'

SHEET V-2

MAIN STREET SOLAR PROPOSED 998 KW DC SOLAR ARRAY PRELIMINARY DETERMINATION APPLICATION

PROPERTY
1219 MAIN STREET
RICHMOND, RI 02898
AP 5B, LOT 004

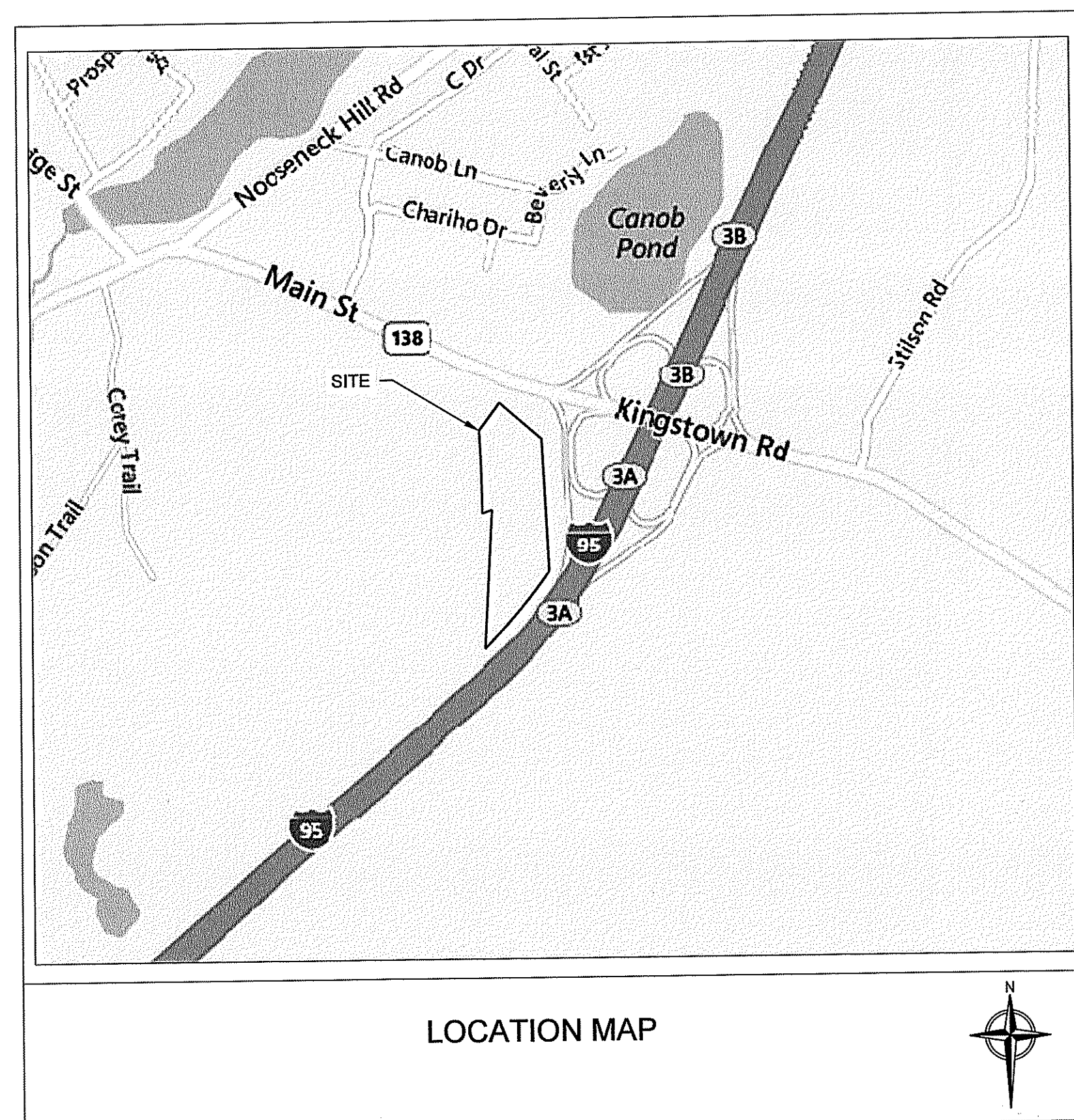
PREPARED FOR
MIKENT, INC
39 NOOSENECK HILL ROAD
WEST GREENWICH, RI 02817

OWNER/APPLICANT
MIKENT, INC
39 NOOSENECK HILL ROAD
WEST GREENWICH, RI 02817

APRIL 16, 2018
REVISED: JULY 5, 2018
PREPARED BY:



100 Fifth Avenue, 5th Floor
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com



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

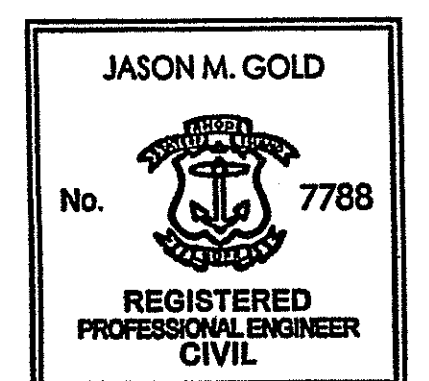
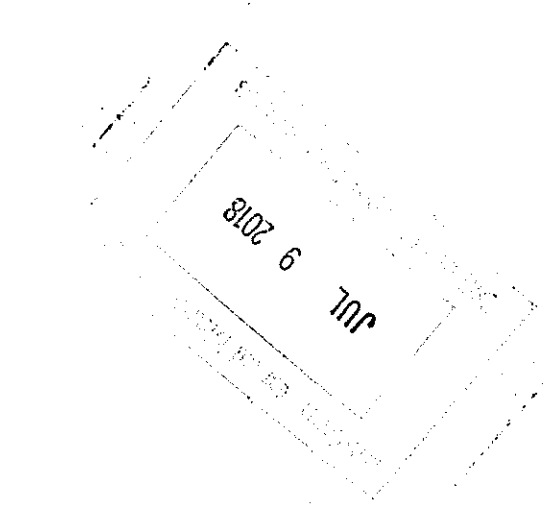
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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DATED JUL 16 2018 FILE # 18-0092
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Christopher D. Wenzel

INDEX OF SHEETS

Sheet Number	Sheet Title
1	COVER
2	NOTES
3	SITE LAYOUT
4	GRADING AND DRAINAGE
5	SESC PLAN
6	DETAILS
7	DETAILS
8	PRE- DEVELOPMENT DRAINAGE AREA
9	POST DEVELOPMENT DRAINAGE AREA

ATTACHMENT V-1: "PROPERTY AND TOPOGRAPHIC SURVEY" DESIGN PROFESSIONALS, INC.

ATTACHMENT V-2: "PROPERTY AND TOPOGRAPHIC SURVEY" DESIGN PROFESSIONALS, INC.



2018.07.05
Jason Gold 19:07:36
-04'00'

NOT FOR CONSTRUCTION

GENERAL NOTES:

- SOILS RESOURCES DATA FROM USGS NRCS WEB SOIL SURVEY.
- 2011 LIDAR DATA FROM RHODE ISLAND GEOGRAPHIC INFORMATION SYSTEM (RIGIS).
- BASE PLAN REFERENCES "PROPERTY AND TOPOGRAPHIC SURVEY", 1219 MAIN STREET, RICHMOND, RI, 08/07/2017, REVISED 06/29/2018, PREPARED BY DESIGN PROFESSIONALS INC.
- WETLANDS FLAGGED BY ESS ON 07/13/2017
- ENGINEER'S ENDORSEMENT IS FOR PERMITTING PURPOSES ONLY. PLANS NOT INTENDED FOR CONSTRUCTION.

CONSTRUCTION NOTES:

- NO CHANGES ARE TO BE MADE UNLESS AUTHORIZED BY THE OWNER.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, AND PERMIT CONDITIONS.
- THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, STREETS, PAVEMENTS, HIGHWAY GUARDS, CURBING, EDGING, TREES AND PLANTINGS, ETC. ON OR OFF THE PREMISES, AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AT HIS/HER OWN EXPENSE AS REQUIRED BY THE ENGINEER ANY ITEMS DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK.
- THE CONTRACTOR SHALL DISPOSE OF ALL RUBBISH, AND DEBRIS IN ACCORDANCE WITH THE SPECIFICATIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN SAFE AND CLEAN CONDITION.
- CONSTRUCTION SEQUENCE SHALL BE COORDINATED TO MINIMIZE DISTURBANCE OF EXISTING CONDITIONS AND OPERATIONS AND SHALL BE CONDUCTED AS FOLLOWS:
 - INSTALL CONSTRUCTION ENTRANCE.
 - INSTALL SNOW FENCE IDENTIFYING LIMITS OF DISTURBANCE AND AREAS INTERNAL TO THE SITE THAT REQUIRE PROTECTION (AS SHOWN ON PLANS) BEFORE START OF LAND DISTURBANCE.
 - INSTALL ALL PERIMETER EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES THAT ARE REQUIRED TO BE IN PLACE AND FUNCTIONAL BEFORE ANY EARTHWORK BEGINS. THIS SHALL BE DONE IN ACCORDANCE WITH THE RI SESC HANDBOOK. UPON ACCEPTABLE COMPLETION OF SITE PREPARATION AND INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, SITE CONSTRUCTION ACTIVITIES MAY COMMENCE.
 - GRADE AREA OF TEMPORARY SEDIMENT TRAP PER SPECIFICATIONS SHOWN ON PLANS.
 - INSTALL INTERIOR SEDIMENT CONTROL ONCE ROUGH GRADING OF RESPECTIVE AREA IS COMPLETE, AND PRIOR TO COMMENCEMENT OF UPGRADIENT EARTH WORK.
 - CONSTRUCT STORMWATER DETENTION BASIN AND INSTALL OUTLET CONTROL STRUCTURE, SPILLWAY, OUTLET PIPE AND LEVEL SPREADER ASSOCIATED WITH THE STORMWATER DETENTION BASIN.
 - UPON COMMENCEMENT OF SITE CONSTRUCTION ACTIVITIES, THE OPERATOR SHALL INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. SUCH TEMPORARY OR PERMANENT SOIL STABILIZATION MEASURES MUST BE INSTALLED PRIOR TO INITIATING LAND DISTURBANCE IN SUBSEQUENT PHASES.
 - ROUTINE INSPECTION AND MAINTENANCE AND/OR MODIFICATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES WHILE EARTHWORK IS ONGOING IS REQUIRED.
 - COMPLETE FINAL SITE STABILIZATION OF ANY DISTURBED AREAS AFTER EARTHWORK HAS BEEN COMPLETED.
 - FILL TEMPORARY SEDIMENT TRAP ONCE FINAL SITE STABILIZATION IS COMPLETED.
 - REMOVE SNOW FENCE AND TEMPORARY EROSION FROM THE OUTLET PIPE OF THE OUTLET CONTROL STRUCTURE WITHIN THE DETENTION BASIN. BIODEGRADABLE FILTER SOCK MAY REMAIN.
- ALL NECESSARY FEES AND CONSTRUCTION PERMITS SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- WORK WITHIN PUBLIC WAYS SHALL COMPLY WITH APPLICABLE MUNICIPAL AND STATE REQUIREMENTS.
- THE CONTRACTOR SHALL USE DESIGNATED LOCATIONS WITHIN THE ESTABLISHED LIMITS OF DISTURBANCE TO ACCESS THE SITE.
- DUST CONTROL PROCEDURES AND PRACTICES SHALL BE USED TO SUPPRESS DUST DURING THE CONSTRUCTION PROCESS. EXAMPLES OF DUST CONTROL MEASURES INCLUDE WATER TREATMENT, MULCH, AND TEMPORARY VEGETATION.
- CARE SHOULD BE TAKEN TO THE BEST OF THE OPERATOR'S ABILITY TO AVOID DISTURBING LARGE AREAS PRIOR TO ANTICIPATED PRECIPITATION EVENTS. AT A MINIMUM, STORM EVENTS MUST BE MONITORED AND TRACKED IN ORDER TO DETERMINE WHEN POST-STORM EVENT INSPECTIONS MUST BE CONDUCTED. INSPECTIONS MUST BE CONDUCTED AND DOCUMENTED 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 AND/OR AFTER A SIGNIFICANT AMOUNT OF RUNOFF OR SNOWMELT.
- NO TOPSOIL OR PRIME AGRICULTURAL SOIL, AS DEFINED IN CHAPTER 18.08 OF THE TOWN OF RICHMOND ZONING CODE ORDINANCE, SHALL BE REMOVED FROM THE SITE FOR INSTALLATION OF THE FACILITY.
- ONCE GRADED, THE QUALIFIED PERVIOUS AREA (QPA) SHOWN ON DRAWING C-2 SHALL BE SURROUNDED WITH A SNOW FENCE. CONSTRUCTION VEHICLES MUST NOT DRIVE OVER THE AREA. IF THE SOIL WITHIN THE QPA BECOMES COMPACTED, IT MUST BE SUITABLY AMENDED, TILLED, AND RE-VEGETATED ONCE CONSTRUCTION IS COMPLETE TO RESTORE INFILTRATION CAPACITY.

SEDIMENTATION & EROSION CONTROL NOTES:

- THE CONTRACTOR IS REQUIRED TO REVIEW AND IMPLEMENT THE SOIL EROSION AND SEDIMENT CONTROL PLAN THROUGHOUT CONSTRUCTION. THE PLAN MUST BE MAINTAINED AT THE SITE. IT IS THE OPERATOR'S RESPONSIBILITY TO MANAGE THE SITE DURING EACH CONSTRUCTION PHASE SO AS TO PREVENT POLLUTANTS FROM LEAVING THE SITE. THIS MAY REQUIRE THE CONTRACTOR TO REVISE AND AMEND THE SESC PLAN DURING CONSTRUCTION TO ADDRESS VARYING SITE AND/OR WEATHER CONDITIONS, SUCH AS BY ADDING OR REALIGNING EROSION OR SEDIMENT CONTROLS TO ENSURE THE SESC PLAN REMAINS COMPLIANT WITH THE RIPDES CONSTRUCTION GENERAL PERMIT.
- EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN HEREIN OR AS DIRECTED BY THE ENGINEER.
- PERIMETER SOIL AND EROSION CONTROLS SHALL BE PLACED PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN THE TRIBUTARY WATERSHED. CONTRACTOR TO NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES. ALL SOIL AND EROSION CONTROLS SHALL BE CHECKED AND REPAIRED AS NECESSARY.
- ALL TEMPORARY EROSION, RUNOFF, SEDIMENT, AND POLLUTION PREVENTION CONTROL MEASURED SHALL BE INSTALLED BY THE TIME EACH PHASE OF EARTH DISTURBANCE HAS BEGUN.
- EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EACH STORM EVENT GREATER THAN 0.25 INCHES OF RAINFALL. ALL DAMAGED FILTER SOCKS SHALL BE REPLACED. ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES TO PREVENT OFF-SITE TRACKING OF EARTH, SEDIMENT AND DEBRIS.
- INITIATE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE AREA HAS TEMPORARILY OR PERMANENTLY CEASED. ANY DISTURBED AREA THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN 14 DAYS MUST BE STABILIZED IN ACCORDANCE WITH THE RI SESC HANDBOOK USING STRAW MULCH, TEMPORARY SEEDING, OR PERMANENT SEEDING.
- ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF FOUR INCHES OF LOAM PLACED BEFORE BEING PERMANENTLY SEEDED AND MULCHED. EXISTING LOAM TO BE REUSED, SHALL BE FREE OF DEBRIS. LOAM FROM AN OFF SITE BORROW SOURCE SHALL BE SAMPLED AND APPROVED FOR USE BY THE ENGINEER PRIOR TO ITS DELIVERY TO THE SITE.
- EROSION CONTROL MEASURES SHALL BE REMOVED WHEN THE DISTURBED AREA IS STABILIZED OR AS SPECIFIED BY THE ENGINEER. DISTURBED AREA RESULTING FROM THE FILTER SOCK REMOVAL OPERATION SHALL BE PERMANENTLY SEEDED. ALL ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.
- TEMPORARY STRAW MULCH OR TEMPORARY EROSION CONTROL BLANKETS SHALL BE USED WHERE NON-VEGETATIVE COVER IS REQUIRED FOR A PERIOD GREATER THAN 14 DAYS BUT LESS THAN SIX MONTHS. MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MACHINE RESULTING IN 100% COVERAGE OF THE DISTURBED SOIL. IF ANCHORING IS NECESSARY, TACKIFIERS AND/OR NETTING EITHER WITH THE MULCH OR IMMEDIATELY FOLLOWING MULCH APPLICATION SHALL BE USED.
- TEMPORARY SEEDING SHALL BE USED WHERE VEGETATIVE COVER IS REQUIRED FOR A PERIOD GREATER THAN ONE MONTH BUT LESS THAN TWELVE MONTHS ON DISTURBED SOIL AREAS. RAPIDLY GROWING ANNUAL GRASSES WILL BE UNIFORMLY APPLIED AT THE RATE ASSOCIATED WITH HYDRAULIC APPLICATION (HYDROSEEDING). THE SITE SHALL BE CHECKED PERIODICALLY TO ASSESS THE GROWTH OF THE PLANTS. IF SEEDING FAILS TO GROW, THE AREA SHALL BE RE-ESTABLISHED TO PROVIDE ADEQUATE EROSION CONTROL. THE SEED MIXTURE SHALL BE RIDOT TEMPORARY SEED MIX (M18.10.5), OR APPROVED EQUIVALENT.
- PERMANENT SEEDING SHALL BE USED ON AREAS WHERE PERMANENT VEGETATIVE COVER IS NEEDED TO STABILIZE THE SOIL AND REDUCE EROSION AND SEDIMENTATION. RAPIDLY GROWING ANNUAL GRASSES SHALL BE UNIFORMLY APPLIED AT THE RATE ASSOCIATED WITH HYDRAULIC APPLICATION (HYDROSEEDING). THE SEED MIXTURE TO BE USED FOR PERMANENT STABILIZATION ARE SHOWN HEREIN.
- SEEDING SHALL OCCUR PRIOR TO OCTOBER 15TH. AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15TH, MUST BE STABILIZED THROUGH THE USE OF NON-VEGETATIVE EROSION CONTROL MEASURES. AREAS SEEDED BETWEEN MAY 15TH AND AUGUST 15TH SHALL BE COVERED WITH STRAW MULCH. DURING THESE MONTHS, TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING.
- TREATMENT CHEMICALS SHALL NOT BE APPLIED.

UTILITIES NOTES:

- THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY COMPANIES, IN WRITING, A MINIMUM OF 72 HOURS PRIOR TO ANY CONSTRUCTION WITHIN 15 FEET OF A UTILITY LINE.
- EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. ADDITIONAL UTILITIES MAY EXIST THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT DIGSAFE, NOTIFY ALL NON-MEMBER UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OR JURISDICTION OF THE UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, WATER, GAS AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE WORK TO BE PERFORMED UNDER THIS CONTRACT.
- UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES.
- IF REQUIRED, OVERHEAD LINES SHALL BE RELOCATED BY THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUL 16 2018 FILE # 18-0092
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Jonathan D. Wenzel



2018.07.05
Jason Gold 19:07:11
-04'00'

NOT FOR CONSTRUCTION

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environmental consulting & engineering services

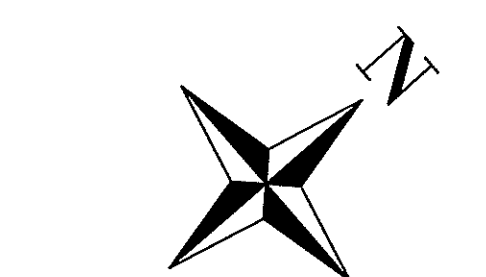
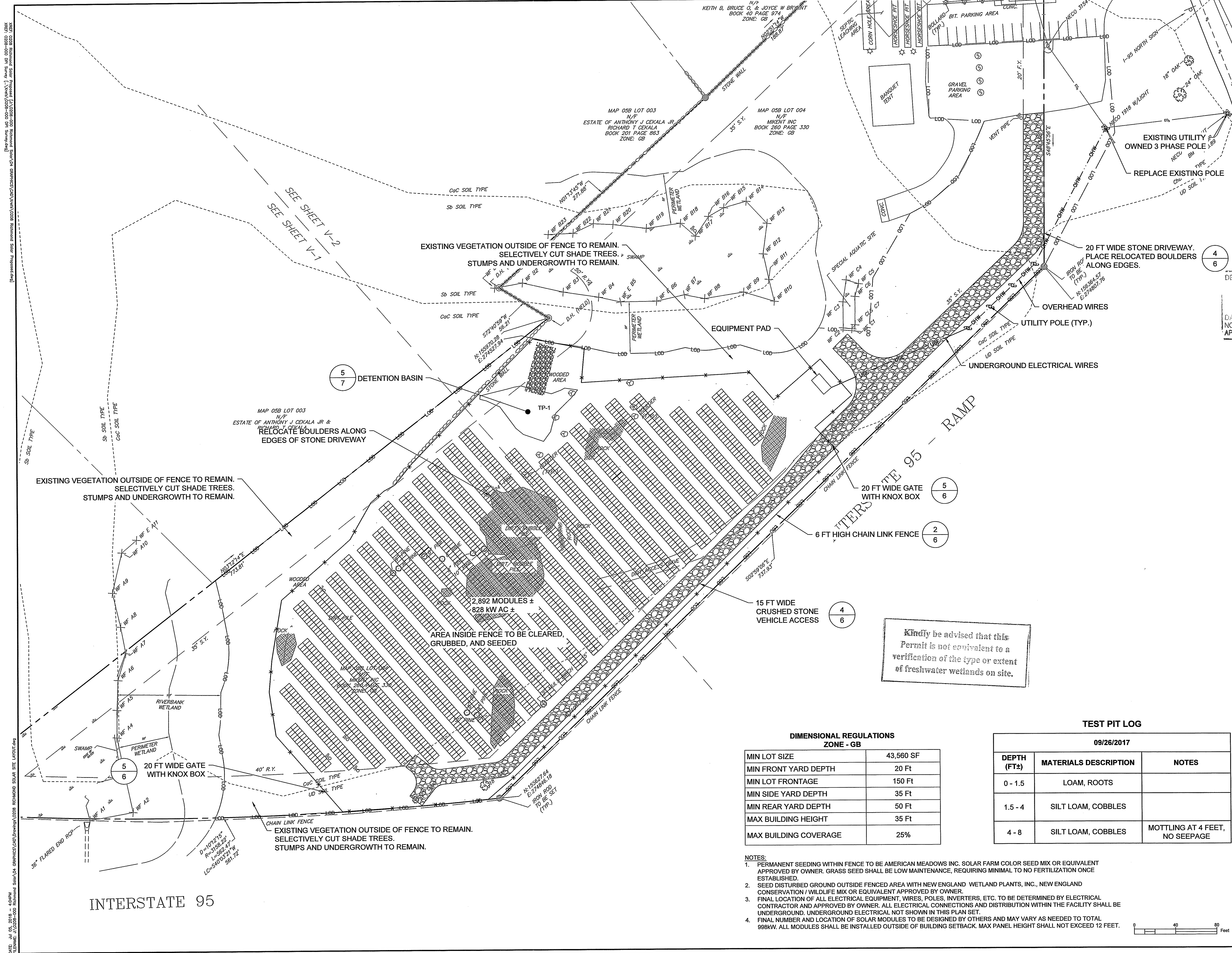
100 Fifth Avenue, 5th Floor
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

1	REVISION	07/05/2018	JMG
No.	REVISION	DATE	APP BY
DRAWN BY: PN		CHECKED BY: GR	
DESIGNED BY: JMG		APPROVED BY:	

**MAIN ST SOLAR
AP 5B LOT 4
1219 MAIN STREET
RICHMOND, RI**

NOTES

PROJECT No.: 0208-000	DRAWING No.
DATE OF ISSUE: 04/16/2018	N-1
SHEET No.: 2 OF 9	
SCALE:	



LEGEND

- LOD — LIMITS OF DISTURBANCE
- OHW — OVERHEAD WIRES
- UGE — UNDERGROUND ELECTRICAL
- X — CHAIN LINK FENCE
- STONE DRIVEWAY
- UTILITY POLE

4
6

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Jonathan D. Wenzel

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER CIVIL

Jason Gold 2018.07.05
19:06:53 -04'00'

NOT FOR CONSTRUCTION

ESS group
environmental consulting & engineering services
100 Fifth Avenue, 5th Floor
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

1	REVISION COMMENTS	DATE	APP BY

TEST PIT LOG

09/26/2017		
DEPTH (FT±)	MATERIALS DESCRIPTION	NOTES
0 - 1.5	LOAM, ROOTS	
1.5 - 4	SILT LOAM, COBBLES	
4 - 8	SILT LOAM, COBBLES	MOTTLING AT 4 FEET, NO SEEPAGE

**DIMENSIONAL REGULATIONS
ZONE - GB**

MIN LOT SIZE	43,560 SF
MIN FRONT YARD DEPTH	20 Ft
MIN LOT FRONTAGE	150 Ft
MIN SIDE YARD DEPTH	35 Ft
MIN REAR YARD DEPTH	50 Ft
MAX BUILDING HEIGHT	35 Ft
MAX BUILDING COVERAGE	25%

- NOTES:**
- PERMANENT SEEDING WITHIN FENCE TO BE AMERICAN MEADOWS INC. SOLAR FARM COLOR SEED MIX OR EQUIVALENT APPROVED BY OWNER. GRASS SEED SHALL BE LOW MAINTENANCE, REQUIRING MINIMAL TO NO FERTILIZATION ONCE ESTABLISHED.
 - SEED DISTURBED GROUND OUTSIDE FENCED AREA WITH NEW ENGLAND WETLAND PLANTS, INC., NEW ENGLAND CONSERVATION / WILDLIFE MIX OR EQUIVALENT APPROVED BY OWNER.
 - FINAL LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRES, POLES, INVERTERS, ETC. TO BE DETERMINED BY ELECTRICAL CONTRACTOR AND APPROVED BY OWNER. ALL ELECTRICAL CONNECTIONS AND DISTRIBUTION WITHIN THE FACILITY SHALL BE UNDERGROUND. UNDERGROUND ELECTRICAL NOT SHOWN IN THIS PLAN SET.
 - FINAL NUMBER AND LOCATION OF SOLAR MODULES TO BE DESIGNED BY OTHERS AND MAY VARY AS NEEDED TO TOTAL 996KW. ALL MODULES SHALL BE INSTALLED OUTSIDE OF BUILDING SETBACK. MAX PANEL HEIGHT SHALL NOT EXCEED 12 FEET.

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

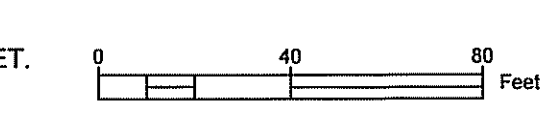
**MAIN ST SOLAR
AP 5B LOT 4
1219 MAIN STREET
RICHMOND, RI**

SITE LAYOUT

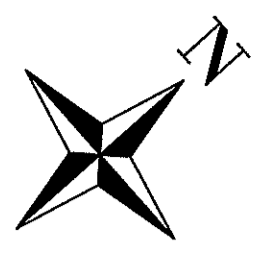
PROJECT No.: 0208-000	DRAWING No.
DATE OF ISSUE: 04/16/2018	C-1
SHEET No.: RIDEM COMMENTS	
SCALE: 1"=40'	

[Map/Drawn: 04/16/2018 10:40AM] [Plot/Print: 09/26/2017 19:06:53] [User: jgold] [Printer: HP DesignJet T1100e] [Scale: 1"=40'] [Title: MAIN ST SOLAR AP 5B LOT 4 SITE LAYOUT.dwg] [Path: C:\Users\jgold\AppData\Local\Temp\1\155527216-155527216.dwg] [Plot Area: 11.5x17.0] [Plot Device: HP DesignJet T1100e] [Plot Driver: HP DesignJet T1100e] [Plot Style: HP DesignJet T1100e.ctb] [Plot Color: True] [Plot Lineweight: 0.20] [Plot Linetype: ByLayer] [Plot Linecolor: ByLayer] [Plot Lineplot: On] [Plot Linejoin: Round] [Plot Linecap: Flat] [Plot Linedash: None] [Plot Linecolor: ByLayer] [Plot Lineplot: On] [Plot Linejoin: Round] [Plot Linecap: Flat] [Plot Linedash: None]

INTERSTATE 95



DATE: Jul 07, 2018 6:48PM User: JMG (Project: C:\Users\jmg\Documents\2018\0208\0208 MAIN ST SOLAR\DWG\0208 MAIN ST SOLAR GRADING.dwg)
 PLOT: 0208 MAIN ST SOLAR GRADING.dwg (Scale: 1/4"=1'-0")
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LEGEND

- 145 — PROPOSED MAJOR CONTOUR
- 142 — PROPOSED MINOR CONTOUR
- LOD — LOD — LIMITS OF DISTURBANCE

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUL 16 2018 FILE # 18-0012
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Jonathan D. Wencel

JASON M. GOLD
 No. 7788
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL

Jason Gold 2018.07.05
 19:06:35 -04'00'

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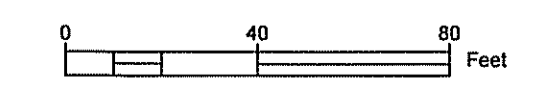
No.	REVISION	DATE	APP BY
1	RIDEM COMMENTS	07/05/2018	JMG

DRAWN BY: PKN CHECKED BY: GR
 DESIGNED BY: JMG APPROVED BY:

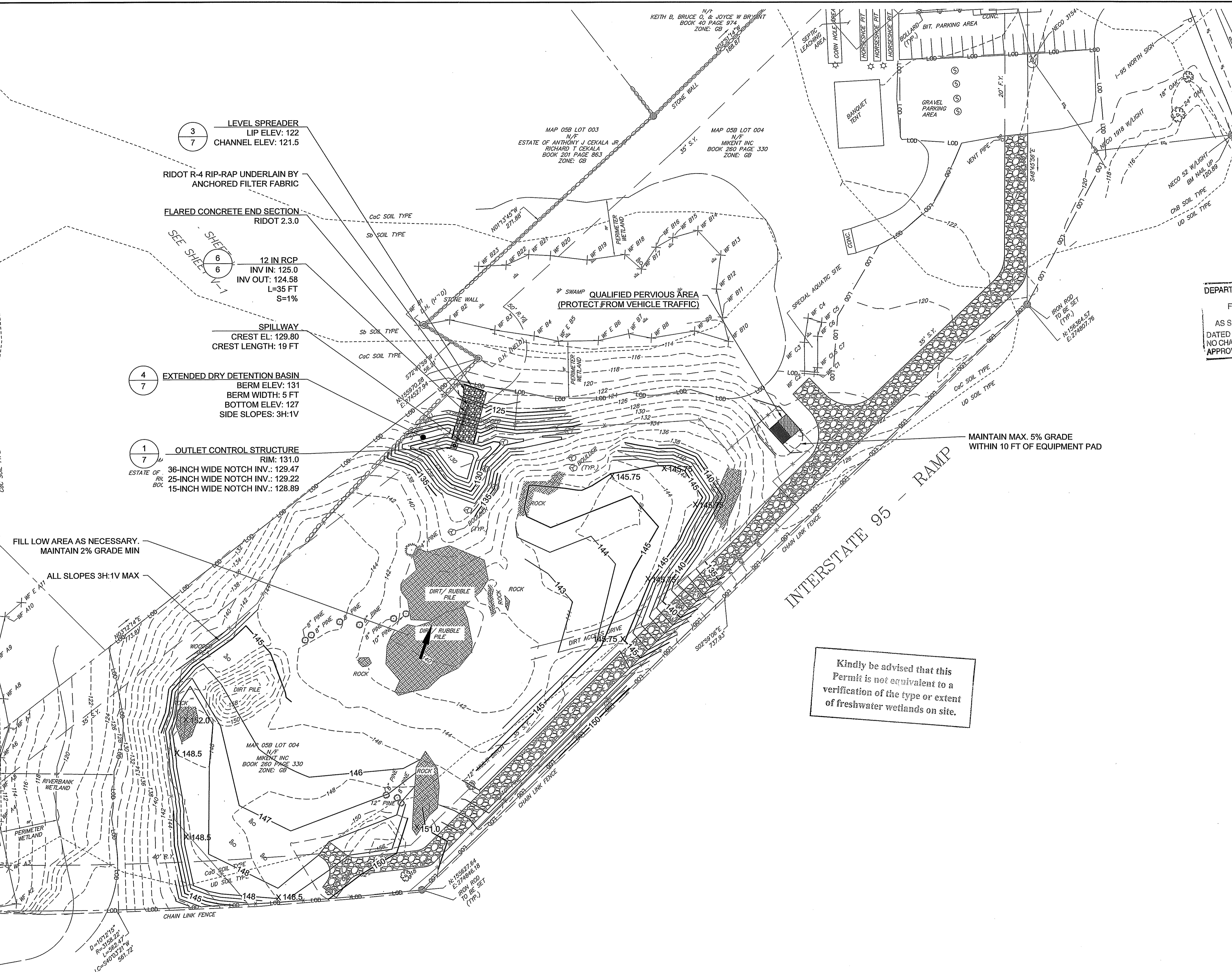
MAIN ST SOLAR
AP 5B LOT 4
1219 MAIN STREET
RICHMOND, RI

GRADING AND DRAINAGE

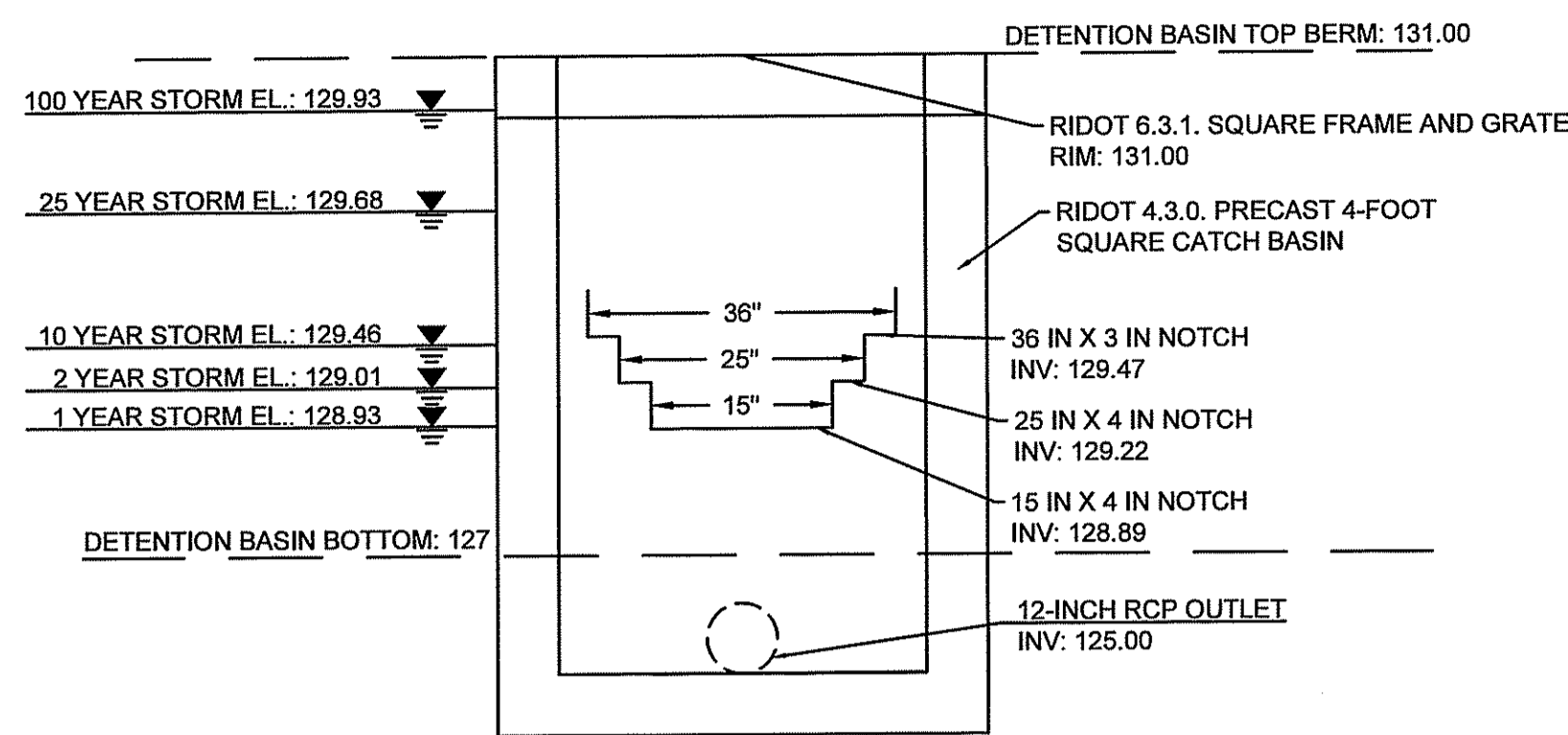
PROJECT No.: 0208-000 DRAWING No.
 DATE OF ISSUE: 04/16/2018
 SHEET No.: 4 OF 9
 SCALE: 1"=40'
C-2



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



INTERSTATE 95

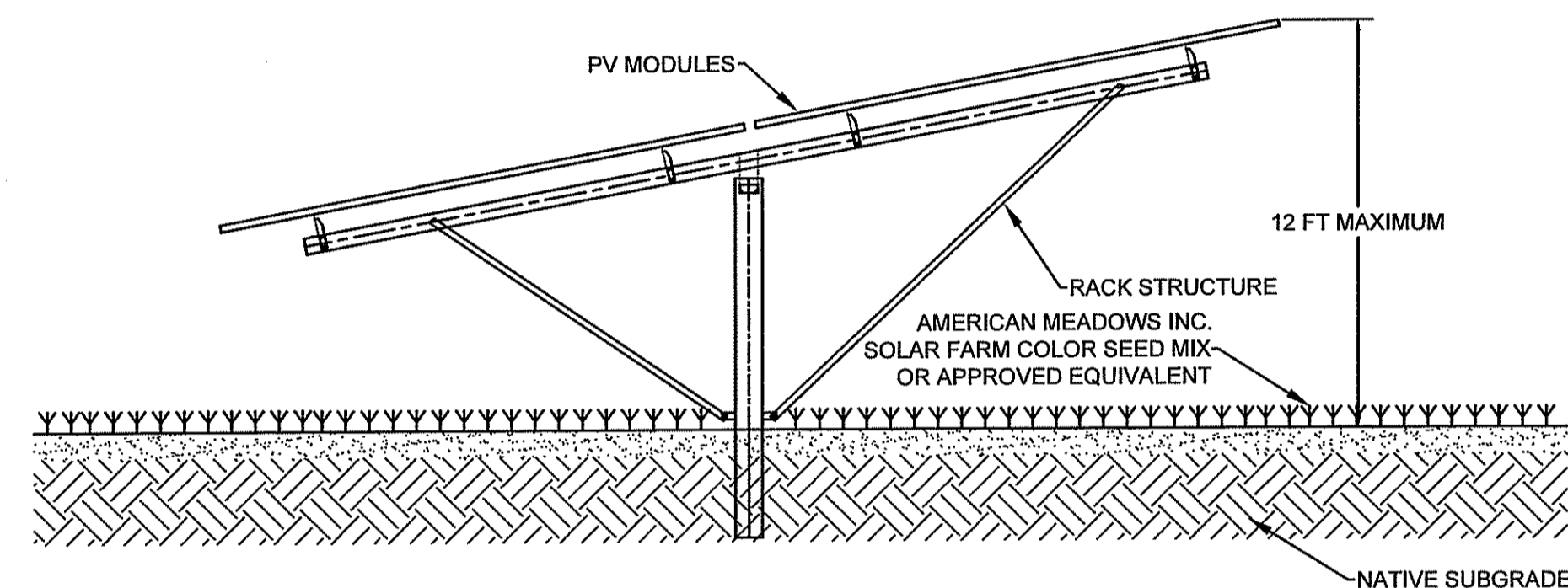


1 OUTLET CONTROL STRUCTURE

SCALE: NTS

NOTES:

1. INSTALL STORMRAX FLAT TRASH RACK OR APPROVED EQUIVALENT OVER ORIFICE.

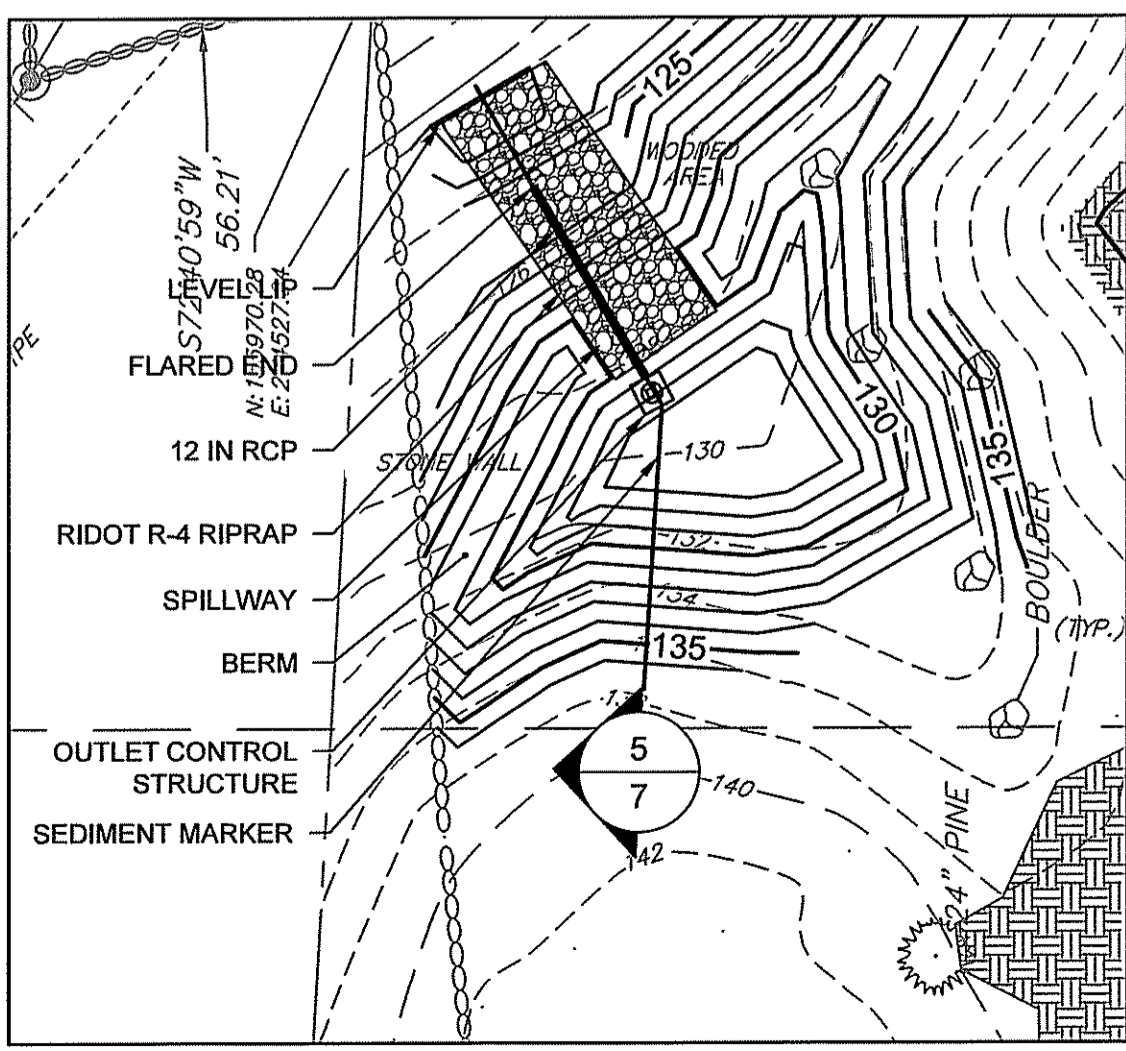


6 SOLAR PANEL AND RACK DETAIL

SCALE: NTS

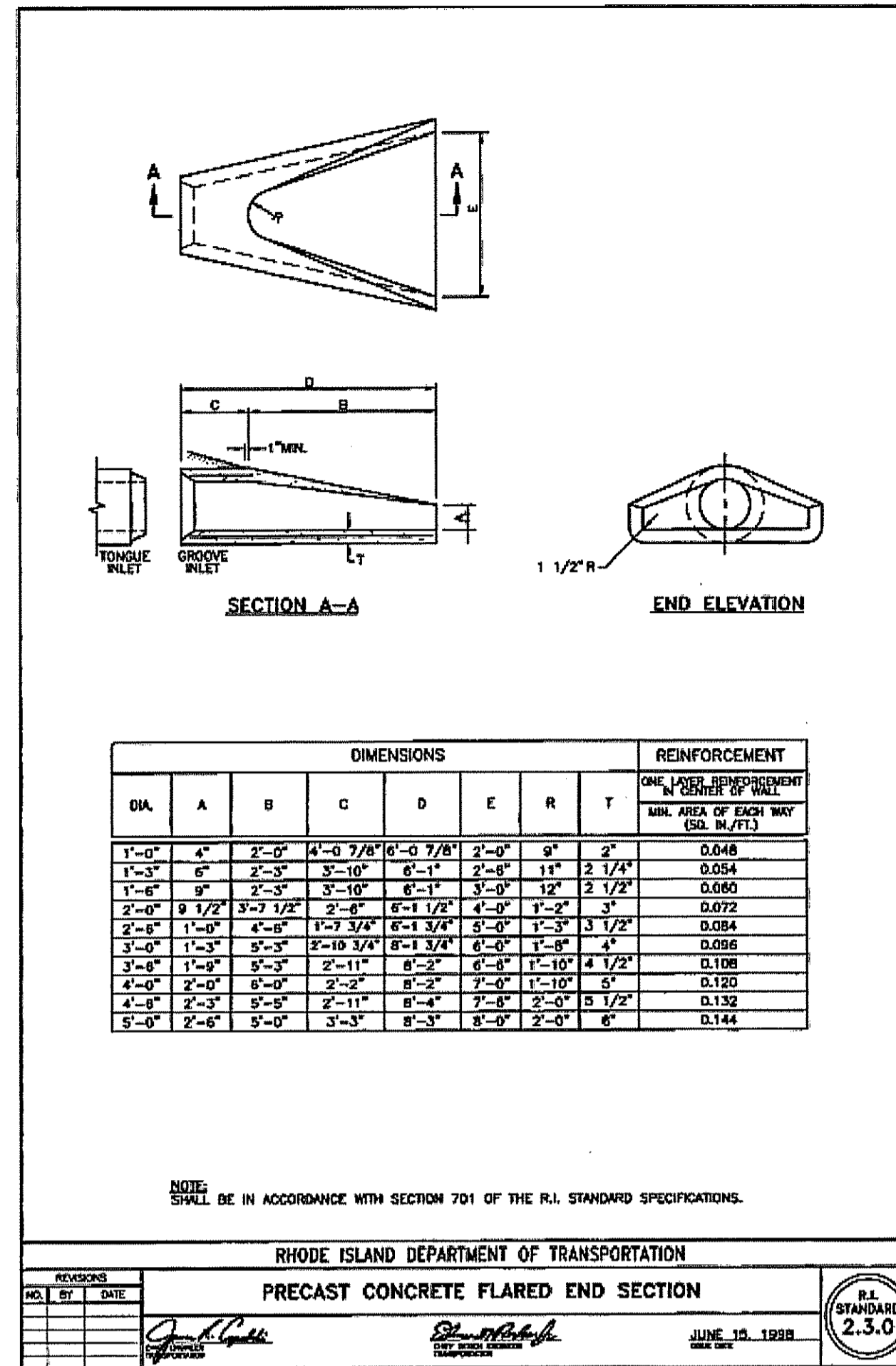
NOTES:

1. RACK STRUCTURE AND PV MODULES SHOWN FOR ILLUSTRATIVE PURPOSES. ACTUAL COMPONENTS AND DIMENSIONS AS APPROVED BY OWNER. FOUNDATION TYPE TO BE DETERMINED BY OTHERS.



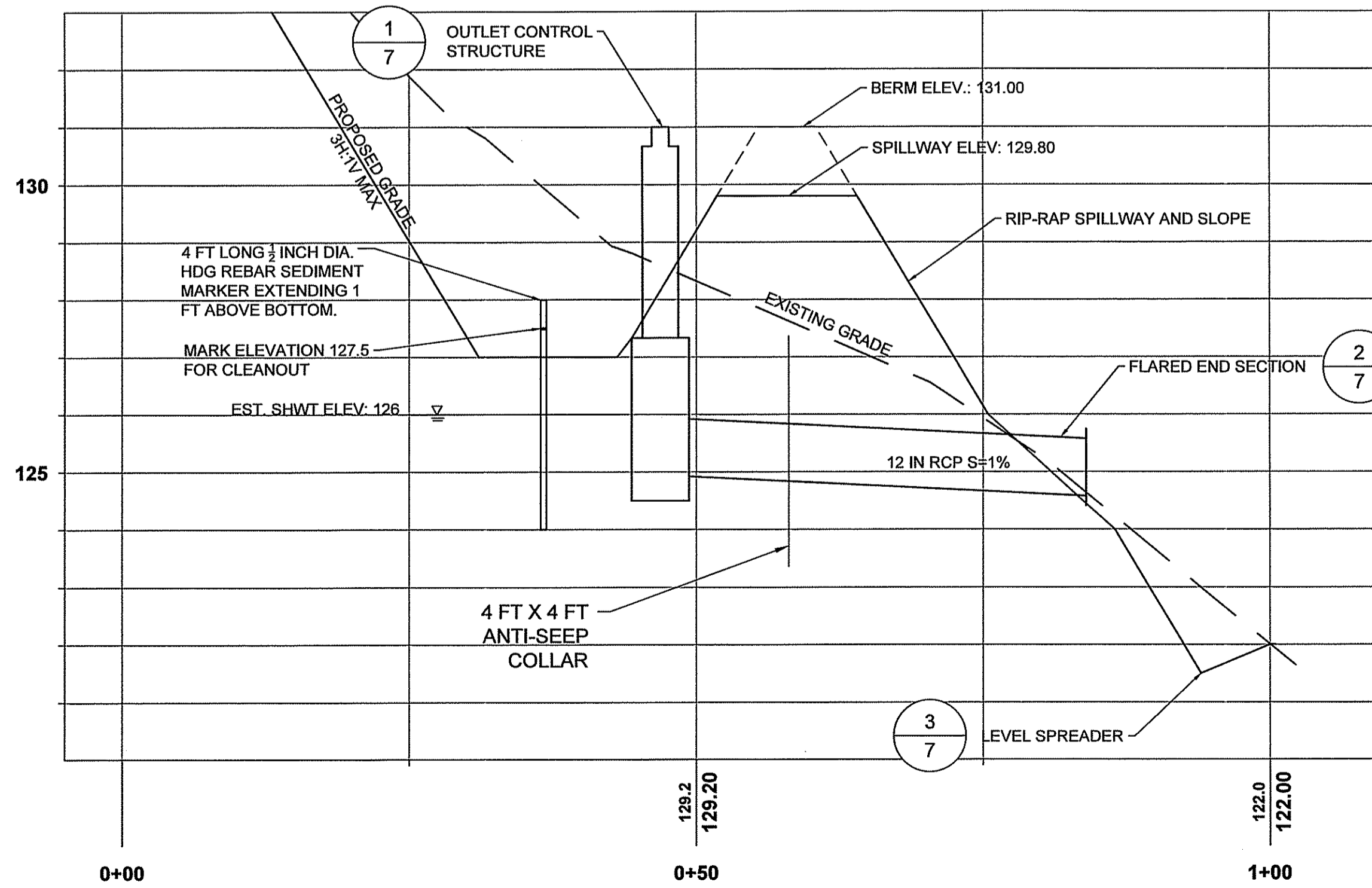
4 DETENTION BASIN PLAN VIEW

SCALE: 1" = 30'



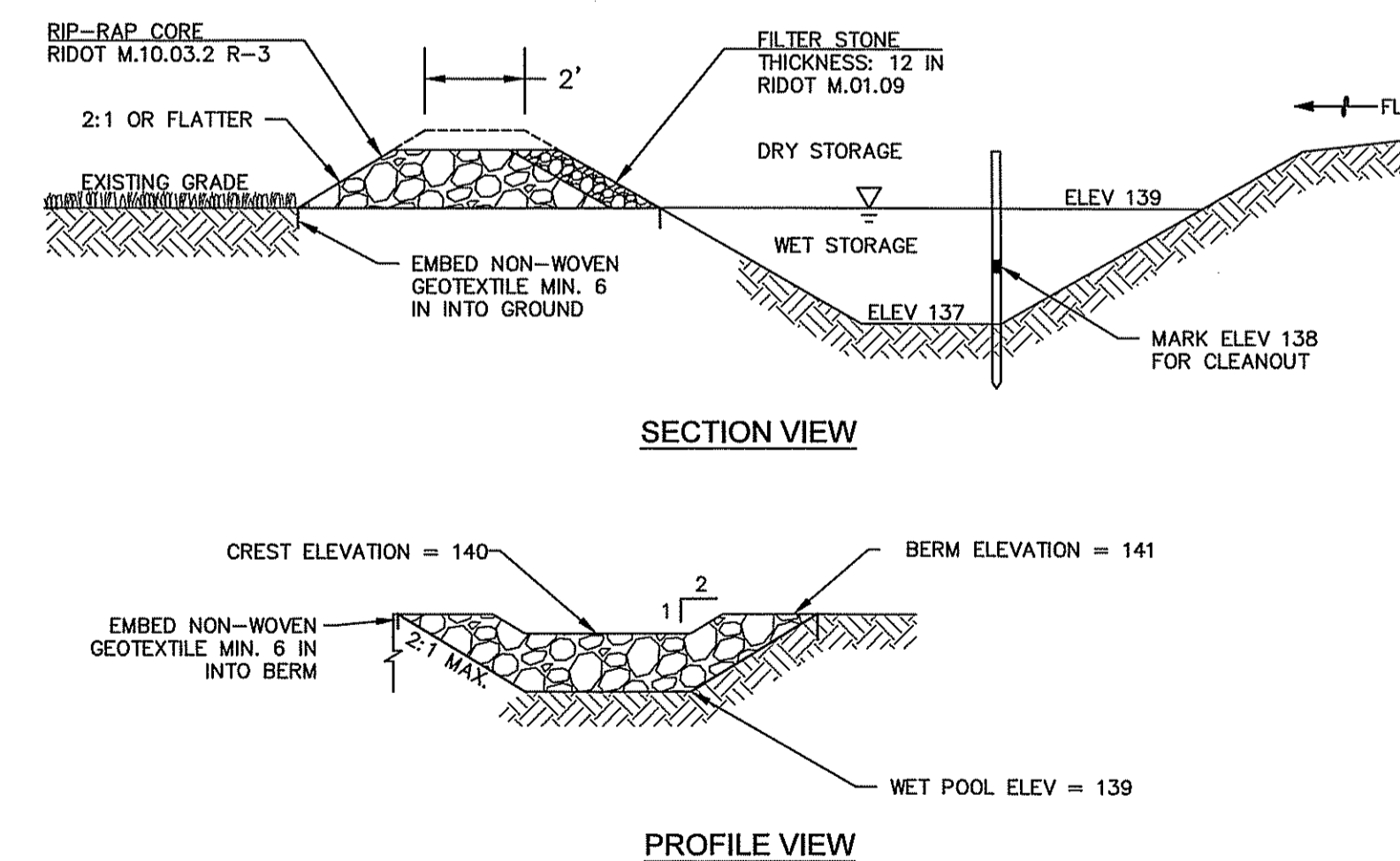
2 FLARED END SECTION

SCALE: NTS



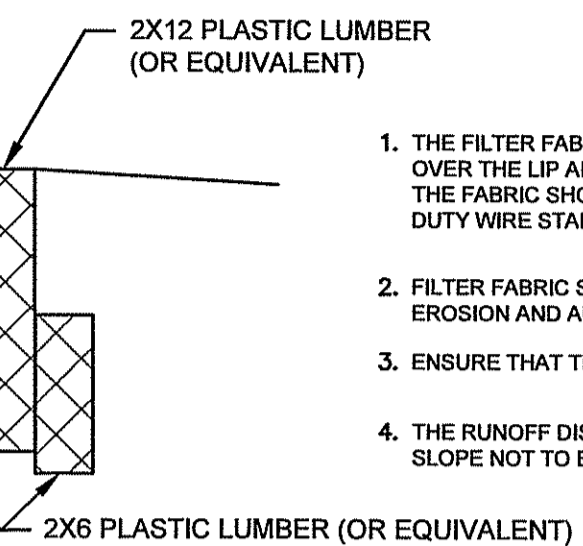
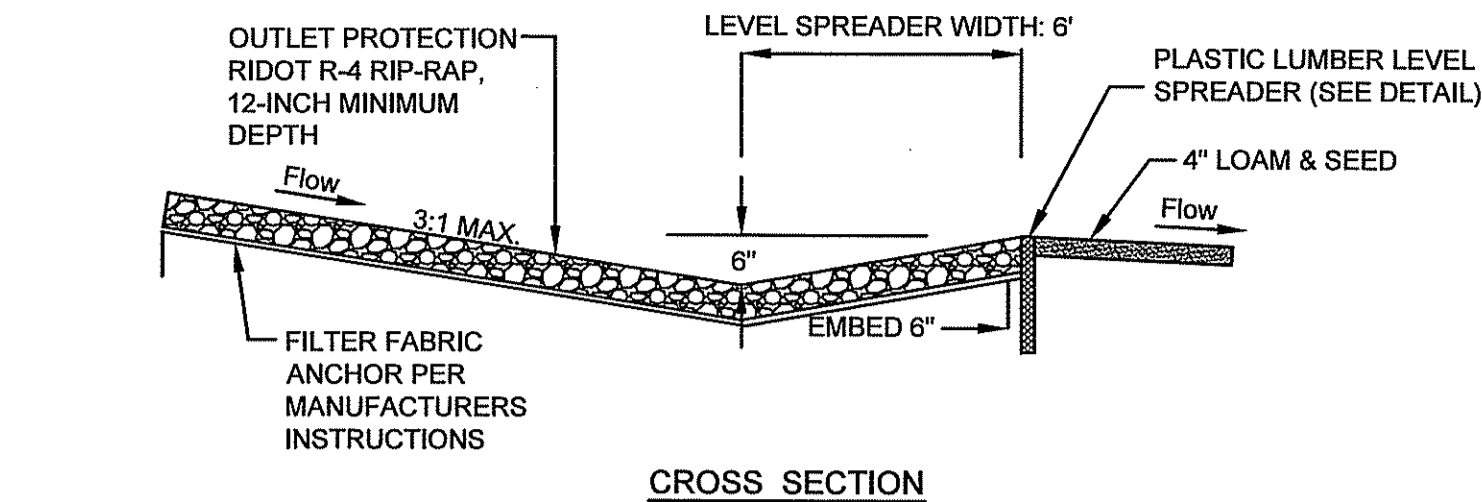
5 DETENTION BASIN PROFILE

SCALE: 1" = 10'H, 1" = 2' V



7 TEMPORARY SEDIMENT TRAP DETAIL

SCALE: NTS

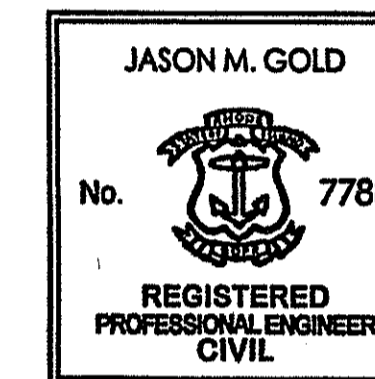


CONSTRUCTION SPECIFICATIONS

1. THE FILTER FABRIC SHOULD BE A MINIMUM OF 6 FEET WIDE EXTENDING 12 INCHES OVER THE LIP AND BURIED 6 INCHES DEEP IN A VERTICAL TRENCH ON BOTH SIDES. THE FABRIC SHOULD BE SECURELY HELD IN PLACE WITH CLOSELY SPACED HEAVY DUTY WIRE STAPLES AT LEAST 12 INCHES IN LENGTH.
2. FILTER FABRIC SHALL BE EROSION RESISTANT MATERIAL OR MAT TO PREVENT EROSION AND ALLOW VEGETATION TO BECOME ESTABLISHED.
3. ENSURE THAT THE LIP IS LEVEL TO UNIFORMLY SPREAD STORMWATER DISCHARGE.
4. THE RUNOFF DISCHARGE WILL BE OUTLETED ONTO A STABILIZED VEGETATED SLOPE NOT TO EXCEED 10%.

3 LEVEL SPREADER

SCALE: NTS



Jason Gold 2018.07.05 19:05:51 -04'00'

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1	RIDEM COMMENTS	07/05/2018	JMG
No.	REVISION	DATE	APP BY
DRAWN BY: GR	CHECKED BY: PN		
DESIGNED BY: JMG	APPROVED BY:		

MAIN ST SOLAR
 AP 5B LOT 4
 1219 MAIN STREET
 RICHMOND, RI

DETAILS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED 11/6/2018 FILE # 18-0092
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 REVISED PLANS MUST BE AT CONSTRUCTION SITE

Jason D. Wensch

PROJECT No.: 0208-000

DATE OF ISSUE: 04/16/2018

SHEET No.: 7 OF 9

SCALE: AS NOTED

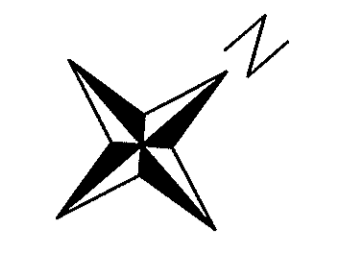
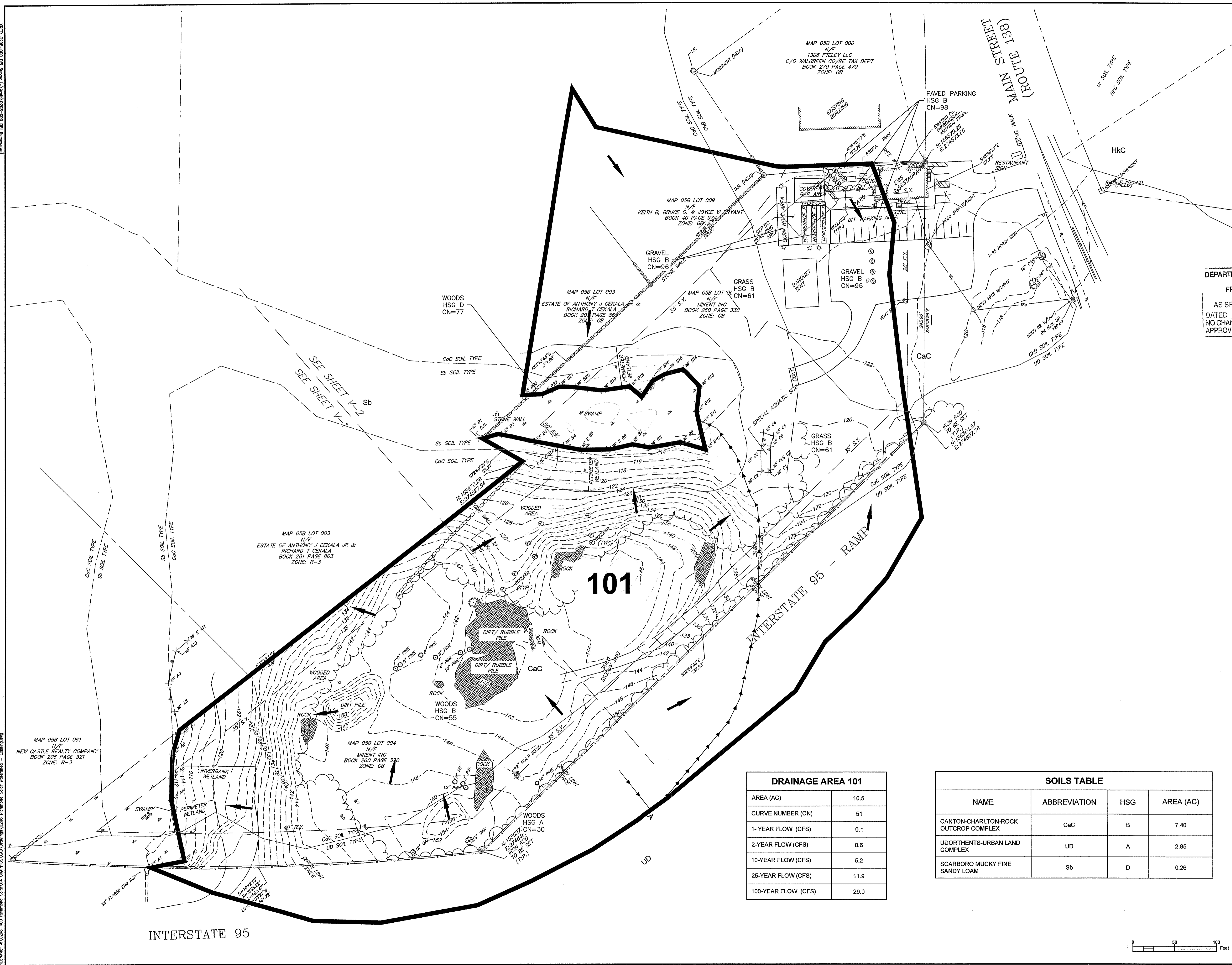
DRAWING No.

D-2

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[Map/Drawings/04/000-0000/Drawings/04/000-0000/0000] AutoCAD 2010 - 0000-0000-0000

[Map/Drawings/04/000-0000/Drawings/04/000-0000/0000] AutoCAD 2010 - 0000-0000-0000



LEGEND

	DRAINAGE AREA BOUNDARY
	TIME OF CONCENTRATION FLOW PATH
	GROUND COVER BOUNDARY
	FLOW DIRECTION
	SOIL GROUP BOUNDARY

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Argentine D. Wenczek



Jason Gold 2018.07.05
 19:05:37 -04'00'

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DRAINAGE AREA 101

AREA (AC)	10.5
CURVE NUMBER (CN)	51
1-YEAR FLOW (CFS)	0.1
2-YEAR FLOW (CFS)	0.6
10-YEAR FLOW (CFS)	5.2
25-YEAR FLOW (CFS)	11.9
100-YEAR FLOW (CFS)	29.0

SOILS TABLE

NAME	ABBREVIATION	HSG	AREA (AC)
CANTON-CHARLTON-ROCK OUTCROP COMPLEX	CaC	B	7.40
UDORTHERTS-URBAN LAND COMPLEX	UD	A	2.85
SCARBORO MUCKY FINE SANDY LOAM	Sb	D	0.26

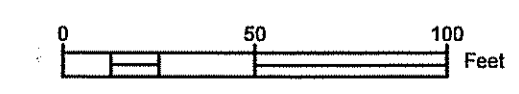
No.	REVISION	DATE	APP BY

DRAWN BY: PKN CHECKED BY: GR
 DESIGNED BY: JMG APPROVED BY:

**MAIN ST SOLAR
 AP 5B LOT 4
 1219 MAIN STREET
 RICHMOND, RI**

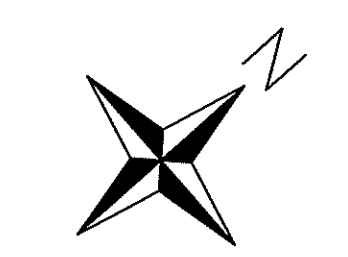
**PRE- DEVELOPMENT
 DRAINAGE AREA**

PROJECT No.: 0208-000 DRAWING No.:
 DATE OF ISSUE: 04/16/2018 **WS-1**
 SHEET No.: 8 OF 9
 SCALE: 1" = 50'



INTERSTATE 95

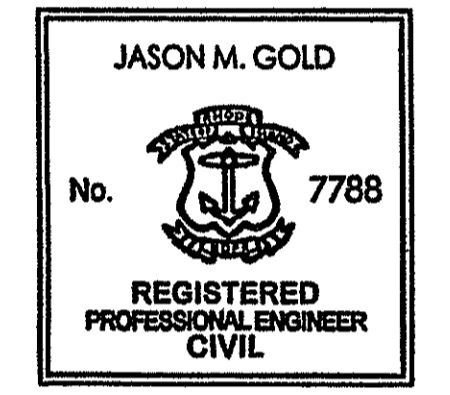
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LEGEND

- DRAINAGE AREA BOUNDARY
- TIME OF CONCENTRATION FLOW PATH
- GROUND COVER BOUNDARY
- FLOW DIRECTION
- SOIL GROUP BOUNDARY

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Martin B. Wenzel



Jason Gold 2018.07.05
 19:05:22 -04'00'

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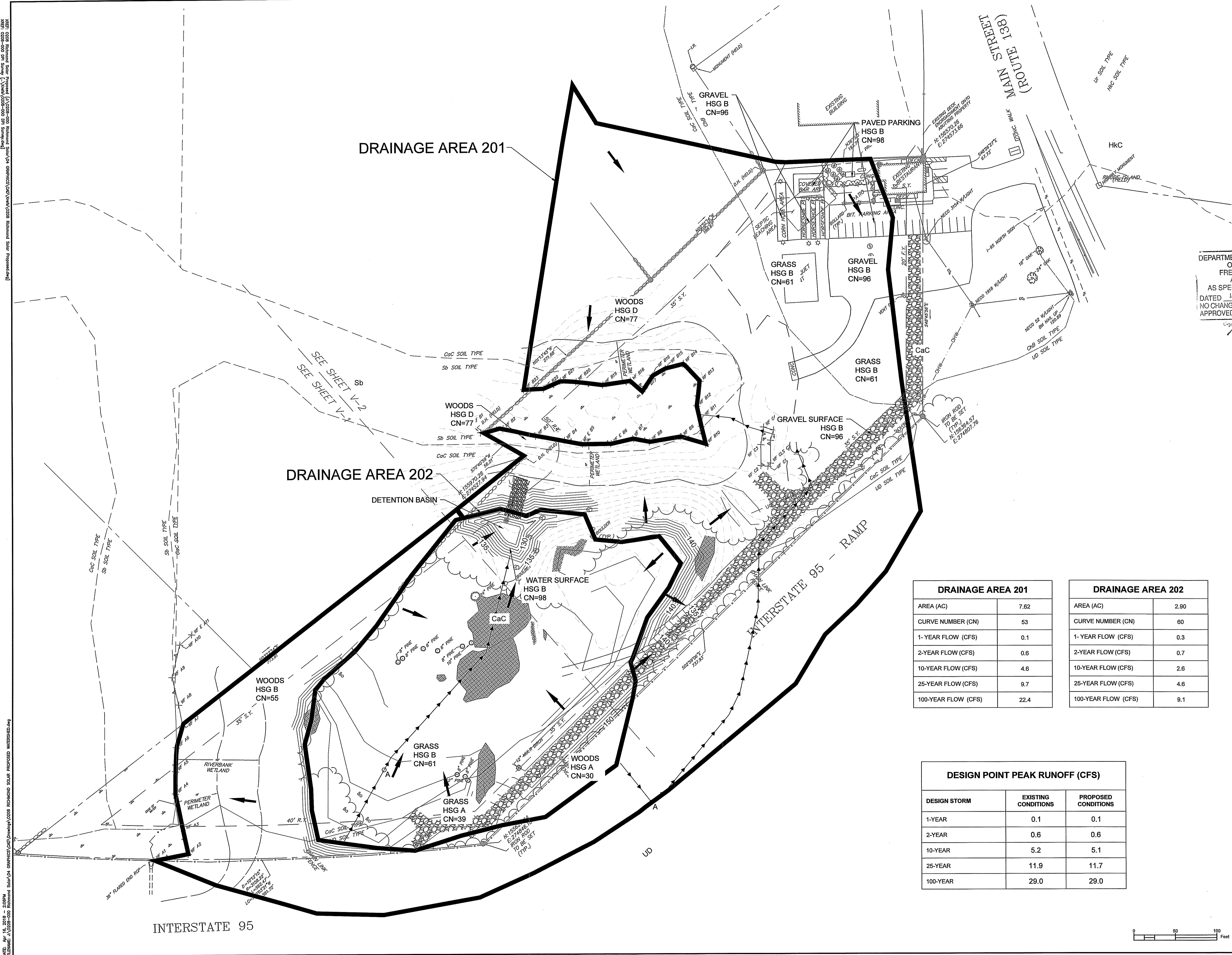
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No.	REVISION	DATE	APP BY

**MAIN ST SOLAR
 AP 5B LOT 4
 1219 MAIN STREET
 RICHMOND, RI**

**POST DEVELOPMENT
 DRAINAGE AREA**

PROJECT No.: 0208-000 DRAWING No.:
 DATE OF ISSUE: 04/16/2018 **WS-2**
 SHEET No.: 9 OF 9
 SCALE: 1"=50'



DRAINAGE AREA 201

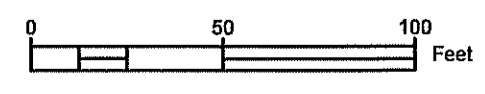
AREA (AC)	7.62
CURVE NUMBER (CN)	53
1-YEAR FLOW (CFS)	0.1
2-YEAR FLOW (CFS)	0.6
10-YEAR FLOW (CFS)	4.6
25-YEAR FLOW (CFS)	9.7
100-YEAR FLOW (CFS)	22.4

DRAINAGE AREA 202

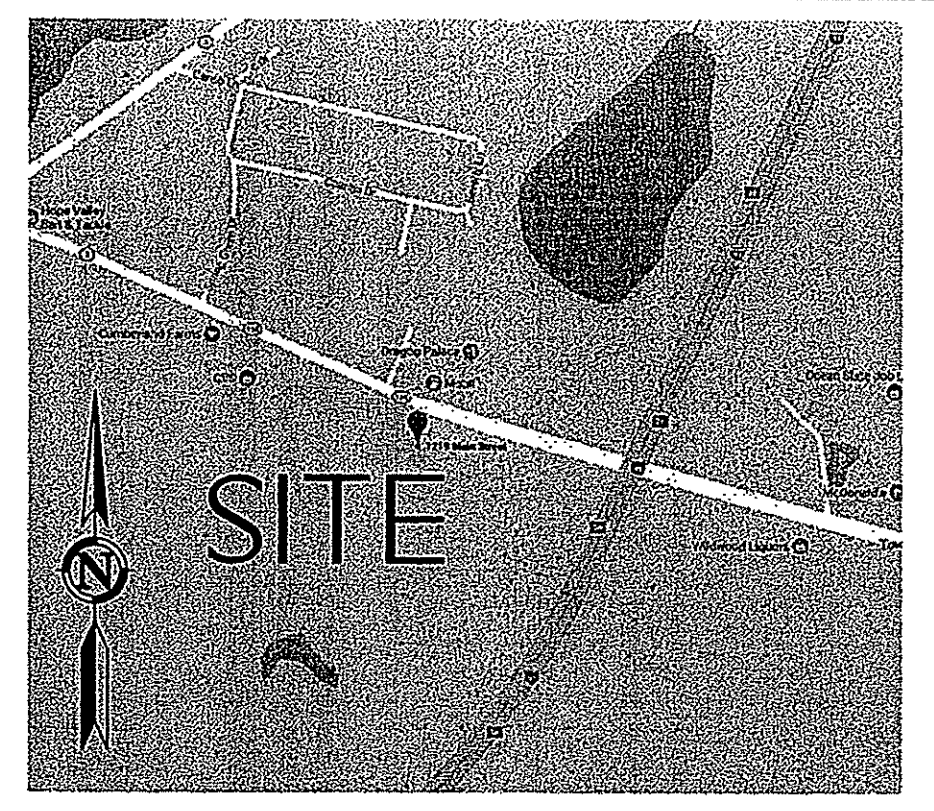
AREA (AC)	2.90
CURVE NUMBER (CN)	60
1-YEAR FLOW (CFS)	0.3
2-YEAR FLOW (CFS)	0.7
10-YEAR FLOW (CFS)	2.6
25-YEAR FLOW (CFS)	4.6
100-YEAR FLOW (CFS)	9.1

DESIGN POINT PEAK RUNOFF (CFS)

DESIGN STORM	EXISTING CONDITIONS	PROPOSED CONDITIONS
1-YEAR	0.1	0.1
2-YEAR	0.6	0.6
10-YEAR	5.2	5.1
25-YEAR	11.9	11.7
100-YEAR	29.0	29.0



EXISTING	DESCRIPTION
—●—	ELECTRICAL LINES, OVERHEAD
—○—	UTILITY POLE
---	PROPERTY LINE
- - -	EASEMENT LINE
○	IRON PIPE
●	IRON ROD
○	IRON ROD TO BE SET
□	MONUMENT
—	GUARD RAIL
—	SIGN
---	EDGE OF WATER
-x-x-x-	BARBED WIRE FENCE
-o-o-o-	CHAIN LINK FENCE
-x-x-x-	RAIL FENCE
-x-x-x-	STOCKADE FENCE
-x-x-x-	WIRE FENCE
○	TREE
○	TREE LINE
○	STAND PIPE
○	BOULDER
○	STONE WALL
---	STORM DRAIN PIPE
---	CONTOUR
×	SPOT ELEVATION
---	WETLANDS LINE



LOCATION PLAN
N.T.S.

USDA SOILS:
 CcC: CANTON-CHARLTON-ROCK OUTCROP COMPLEX
 ChB: CANTON AND CHARLTON FINE SANDY LOAMS
 CcC: CANTON AND CHARLTON FINE SANDY LOAMS
 HkC: HINLEY LOAMY SAND
 Sb: SCARBORO MUCKY FINE SANDY LOAM
 SuB: SUTTON VERY STONY FINE SANDY LOAM
 SwA: SWANSEA MUCK
 UG: URBAN LAND
 W: WATER

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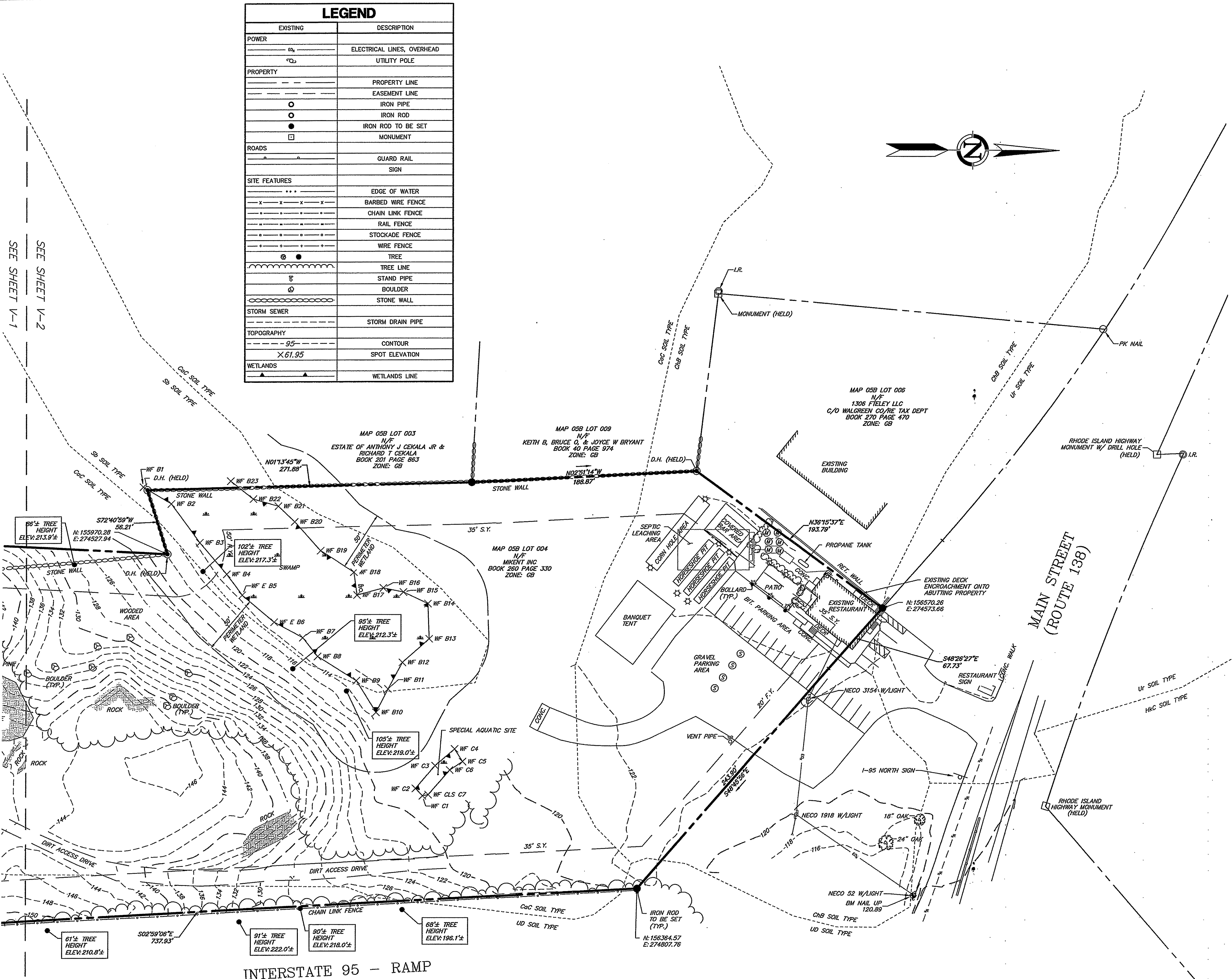
- NOTES:
- PROPERTY IS IN THE GB (GENERAL BUSINESS) ZONE.
 - PARCEL CONTAINS 363,158.4 SQUARE FEET OR 8.337 ACRES.
 - THE FIELD SURVEY TO PERFORM A COMPREHENSIVE BOUNDARY SURVEY (CLASS 1) AND A DATA ACCUMULATION SURVEY (CLASS T-2) WERE PERFORMED ON JULY 18-25, 2017.
 - HORIZONTAL DATUM IS BASED ON NAD83. VERTICAL DATUM IS BASED ON NAVD83.
 - SOIL LINES DEPICTED ARE AS MAPPED BY THE USDA NATURAL RESOURCES CONSERVATION SERVICE.
 - PARCEL IS LOCATED WITHIN THE NATURAL HERITAGE AREA #163. HOWEVER, NO OBSERVATIONS ON-SITE PER ESS GROUP, INC. COMMUNICATION WITH RICHMOND GIS.
 - PARCEL IS NOT LOCATED WITHIN COMMUNITY WELLSHEA PROTECTION AREA / NON-COMMUNITY WELLSHEA PROTECTION AREA / HISTORIC DISTRICT. THERE ARE NO VISIBLE HISTORIC STRUCTURES OR CEMETERIES ON SITE.
 - ENTIRE PARCEL IS LOCATED WITHIN THE AQUIFER PROTECTION OVERLAY DISTRICT.
 - WATER LINE DEPICTED ON PLAN IS BASED UPON INFORMATION FROM TOWN OF RICHMOND GIS.
 - SEPTIC LEACHING AREA DEPICTED ON PLAN IS BASED ON MAP REFERENCE #5.
 - WETLANDS AS DEPICTED ON THE MAP WERE FIELD DELINEATED BY ESS GROUP, INC. & FIELD LOCATED BY DESIGN PROFESSIONALS IN JULY, 2017.
 - EXISTING RESTAURANT AS DEPICTED ON THE MAP IS EXISTING NON-CONFORMING TO TOWN OF RICHMOND ZONING REGULATIONS.
 - PROPERTY DOES NOT FALL WITHIN THE LIMITS OF A FLOOD HAZARD ZONE AS DEPICTED ON: "FIRM FLOOD INSURANCE RATE MAP NUMBER 440800084H TOWN OF RICHMOND RHODE ISLAND WASHINGTON COUNTY PANEL 04 OF 388 COMMUNITY NUMBER 44031 EFFECTIVE DATE: OCTOBER 19, 2015 FEDERAL EMERGENCY MANAGEMENT AGENCY FEDERAL INSURANCE ADMINISTRATION."
 - UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROL TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO DESIGN PROFESSIONALS, INC. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" FOR UNDERGROUND UTILITY MARKING AT LEAST TWO FULL WORKING DAYS PRIOR TO START OF CONSTRUCTION: 1-800-922-4455 OR WWW.CBYD.COM.

- MAP REFERENCES:
- RICHMOND KINGSTON ROAD A INTERSTATE HIGHWAY INTERCHANGE SCALE 80 FEET PER INCH 4 SHEETS PLAT NO. 850 RHODE ISLAND DEPARTMENT OF PUBLIC WORKS DIVISION OF ROADS AND BRIDGES.
 - RICHMOND & HOPKINTON INTERSTATE HIGHWAY SOUTHERN NOOSEVECK SECTION FROM BAKER ROAD TO CONNECTICUT LINE SCALE 80 FEET PER INCH SHEETS SHEET NO. 12 PLAT NO. 848 RHODE ISLAND DEPARTMENT OF PUBLIC WORKS DIVISION OF ROADS AND BRIDGES.
 - NEW CAMP, ISLANDS AND STORE LAYOUT 1209 MAIN STREET RICHMOND, RHODE ISLAND SITE/LANDSCAPE PLAN DATE 10-30-07 SCALE 1"=20' REVISED TO 10-21-08 BY ANTHONY V. GIORANO & ASSOCIATES.
 - WALGREENS SITE PLAN STORE NUMBER 11633 SCALE 1"=20' DATE: 07/19/07 REVISED TO 02/06/08 APPLICANT: MARK INVESTMENTS BY DONLIER ENGINEERING, P.C. & EDWARDS AND KELCEY.
 - GREASE TRAP PLAN AND DETAILS PROPOSED RESTAURANT A.P. 58, LOT 4, MAIN STREET RICHMOND, RHODE ISLAND PREPARED FOR: MIKENT, INC. AUGUST, 2011 SCALE 1"=20' BY MILLSTONE ENGINEERING, P.C.

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:
 a. COMPREHENSIVE BOUNDARY SURVEY CLASS 1
 DATA ACCUMULATION SURVEY CLASS T-2
 THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THE PLAN IS AS FOLLOWS: THE PURPOSE OF THE SURVEY IS TO DEPICT THE EXISTING PROPERTY LINES RELATIVE TO EXISTING IMPROVEMENTS ON AND IMMEDIATELY ADJACENT TO THE PROPERTY.

Lawrence R. Geissler, Jr. L.S. # 1905 DATE 7/2/2018

SEE SHEET V-1
 SEE SHEET V-2



INTERSTATE 95 - RAMP

TOWN OF RICHMOND, RHODE ISLAND
 RECEIVED FOR RECORD

DATE: _____
 AT: _____ M.
 MAP # _____ SLIDE # _____

Sarah S. Raposo
 Town Clerk

APPROVED BY THE PLANNING BOARD

Chairperson/Secretary _____ Date: _____

21 HEBERT DRIVE
 P.O. BOX 1167
 SOUTH WINDSOR, CT 06074
 860-291-8725
 www.dagprofessionals.com

Design Professionals
 CIVIL & TRAFFIC ENGINEERS / PLANNERS / SURVEYORS
 GIS ANALYSTS / LANDSCAPE ARCHITECTS

PREPARED FOR:
 John Typadis
 Oak Square Partners
 119 Brantree St., Suite 211
 Boston, MA 02134

PROJECT NO. 1801
 DATE 7/2/2018
 SCALE 1"=20'

OAK SQUARE PARTNERS
 1219 MAIN STREET
 RICHMOND, RHODE ISLAND

NO.	DATE	REVISIONS
1	6/19/2018	ADD NOTES PER TOWN COMMENTS
2	6/20/2018	REVISE PER TOWN COMMENTS
3	6/27/2018	REVISE PER TOWN COMMENTS

PROPERTY & TOPOGRAPHIC SURVEY

SHEET V-1

