EXETER TEN SOLAR
WETLANDS APP. 22-0160 PERMIT MOD.

PROPERTY:
590 TEN ROD ROAD
EXETER, RI 02822
AP 37 BLOCK 1 LOT 5

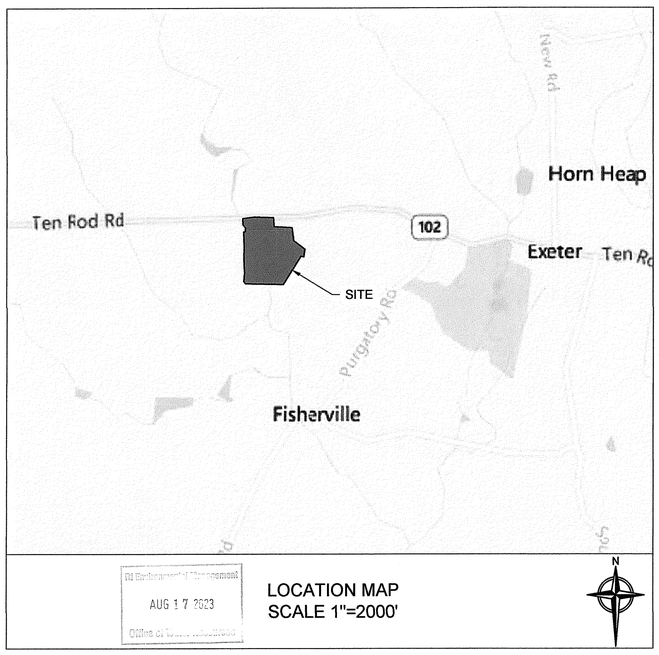
PROPERTY OWNER:
RAE MACDONOUGH
2103 HARRIET AVE #104
MINNEAPOLIS, MN 55405

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 24 2023 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Stanley L. Freeman

PREPARED FOR:
RENEW SOLAR RI EXETER TEN, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

MAY 2, 2022
REV: JUNE 30, 2023 & AUGUST 15, 2023

PREPARED BY:



RI Department of Environmental Management
AUG 17 2023
Office of Water Resources

LOCATION MAP
SCALE 1"=2000'

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

RI PROFESSIONAL ENGINEER
ENDORSEMENT

PAYSON R. WHITNEY, III
No. 8551
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

2023-08-15
15:09-04:00
Not Valid Without Signature

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*LANDSCAPE PLANS FROM TOWN OF EXETER FINAL PLAN SUBMITTAL

FOR PERMITTING ONLY

GENERAL NOTES:

1. BASE PLAN: "ALTA/NSPS LAND TITLE SURVEY", DATED APRIL 1, 2022, CONTROL POINT ASSOCIATES, INC.
2. THE VERTICAL DATUM SHOWN HEREON REFERENCES NAVD88, IN FEET. THE HORIZONTAL DATUM SHOWN HEREON REFERENCES NAD83 RHODE ISLAND STATE PLANE, IN US SURVEY FEET.
3. ENGINEER'S ENDORSEMENT IS FOR PERMITTING PURPOSES ONLY. PLANS NOT INTENDED FOR CONSTRUCTION.
4. WETLANDS WERE DELINEATED BY TRC COMPANIES IN 2018 AND SEPTEMBER 2021.
5. APPROXIMATE EXISTING CART PATHS GPS LOCATED BY TRC COMPANIES IN 2018.
6. A PORTION OF THE SITE IS LOCATED WITHIN A RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NATURAL HERITAGE AREA. NATURAL HERITAGE AREA BOUNDARY OBTAINED FROM RHODEMAP, RIGIS, AND RIDEM IN APRIL 2022. NATURAL HERITAGE AREA BOUNDARY LOCATIONS ARE APPROXIMATE.
7. A PORTION OF THE SITE IS LOCATED WITHIN A ZONE A - SPECIAL FLOOD HAZARD AREA (SFHA), 100-YEAR FLOODPLAIN IN ACCORDING TO FEMA FIRM PANEL 44009C0080J (EFFECTIVE APRIL 3, 2020).
8. SITE IS NOT LOCATED WITHIN A GROUNDWATER PROTECTION OVERLAY, GROUNDWATER RECHARGE, OR WELLHEAD PROTECTION AREA ACCORDING TO THE TOWN OF EXETER, RHODE ISLAND ONLINE GIS MAP.
9. THESE PLANS FOLLOW THE TOWN OF EXETER'S CONDITIONS OF APPROVAL AS DESCRIBED IN THEIR RECORD OF DECISION FOR PRELIMINARY APPROVAL, GRANTED APRIL 4, 2023.
10. AN INSIGNIFICANT ALTERATION PERMIT WAS GRANTED FOR THE SITE ON JULY 20, 2022 FOLLOWING RIDEM'S REVIEW OF A REQUEST FOR PRELIMINARY DETERMINATION SUBMITTED FOR THE SITE ON MAY 5, 2022 (WETLAND APPLICATION NO. 22-0160).

DOCUMENT USE:

1. THESE PLANS AND THE CORRESPONDING CAD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE PREPARED BY TRC ENGINEERS, 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 TRC ENGINEERS, 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 TRC ENGINEERS, 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.

CONSTRUCTION NOTES:

1. NO CHANGES ARE TO BE MADE UNLESS AUTHORIZED BY THE OWNER.
2. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING, UNDERSTANDING, AND COMPLYING WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, PERMIT CONDITIONS, ETC.
3. ALL PRODUCTS TO BE INSTALLED PER MANUFACTURER'S OR DISTRIBUTOR'S INSTRUCTIONS. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO INSTALLATION.
4. UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM TO RIDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION AMENDED 2018, WITH ALL REVISIONS AND R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.
5. REFER TO CONSTRUCTION RECOMMENDATIONS INCLUDED IN THE "GEOTECHNICAL ENGINEERING REPORT" PREPARED BY TERRACON CONSULTANTS, INC., DATED JULY 5, 2018 AS REVISED.
6. 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 THE CONTRACTOR'S EXPENSE ANY ITEMS DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK.
7. 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 AND TOWN IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
8. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING AND GENERATED RUBBLE, DEBRIS AND OTHER DELETERIOUS MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS AND ALL APPLICABLE CODES AND REGULATIONS.
9. THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN A SAFE AND CLEAN CONDITION FOR THE DURATION OF CONSTRUCTION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
11. 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.
12. 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.
13. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
14. THE CONTRACTOR SHALL USE DESIGNATED LOCATIONS WITHIN THE ESTABLISHED LIMITS OF DISTURBANCE TO ACCESS THE SITE.
15. PER CONDITION 11 OF THE 4/4/2023 PRELIMINARY PLAN APPROVAL "THE TOWN CONSTABLE SHALL BE CONSULTED AS TO THE REQUIRED DETAILS NEEDED DURING CONSTRUCTION TO PREVENT TRAFFIC BACKUPS AND SECURE PUBLIC SAFETY ON TEN ROD ROAD WHILE HEAVY EQUIPMENT/DUMPS ARE TRAVELING TO AND FROM THE SITE; ANY DETAILS SHALL BE PAID BY THE APPLICANT."

CONSTRUCTION SEQUENCE NOTES:

1. PHASING AND CONSTRUCTION SEQUENCE SHALL BE IMPLEMENTED TO MINIMIZE THE AMOUNT OF EARTH DISTURBANCE AT ANY ONE TIME. EARTH DISTURBANCE ACTIVITIES DURING EACH PHASE OF CONSTRUCTION SHALL BE LIMITED TO A MAXIMUM OF 5 ACRES WITH A COMMON DRAINAGE LOCATION. INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE AREA HAS TEMPORARILY OR PERMANENTLY CEASED AND PRIOR TO INITIATING LAND DISTURBANCE IN SUBSEQUENT PHASES.
2. WORK ASSOCIATED WITH THE PROJECT IS EXPECTED TO OCCUR IN THE FOLLOWING GENERAL ORDER, THOUGH SOME TASKS MAY OCCUR SIMULTANEOUSLY OR IN A DIFFERENT ORDER BASED ON CONTRACTOR'S MEANS AND METHODS:
   - 2.1. PHASE 1 SITE ACCESS
     - 2.1.1. ERECT OR POST A TWELVE (12) INCH WIDE BY EIGHTEEN (18) INCH LONG WEATHER RESISTANT SIGN WHICH BOLDLY STATES THE RIDEM PERMIT NUMBER. SIGN SHALL NOT BE INSTALLED TO A LIVE TREE.
     - 2.1.2. CLEARLY MARK LIMITS OF DISTURBANCE FOR ALL PHASES.
     - 2.1.3. INSTALL ALL PERIMETER EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES THAT ARE REQUIRED TO BE IN PLACE AND FUNCTIONAL BEFORE ANY SITE WORK 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.
     - 2.1.4. MARK SHADE TREES TO BE CUT FOR APPROVAL.
     - 2.1.5. CLEAR TREES AND SELECTIVELY CUT APPROVED SHADE TREES
     - 2.1.6. CLEAR AND GRUB ONLY AREAS REQUIRED TO COMPLETE THE WORK INCLUDED IN PHASE 1.
     - 2.1.7. INSTALL AND MAINTAIN CONSTRUCTION ENTRANCE AND LAYDOWN AREA.
   - 2.2. PHASE 2 SITE STORMWATER CONTROLS
     - 2.2.1. INSTALL INTERIOR EROSION AND SEDIMENT CONTROLS.
     - 2.2.2. CLEAR AND GRUB ONLY AS NEEDED TO COMPLETE THE WORK INCLUDED IN PHASE 2.
     - 2.2.3. INSTALL TEMPORARY SEDIMENT TRAPS.
     - 2.2.4. INSTALL BASINS.
     - 2.2.5. SPECIAL CARE SHALL BE TAKEN TO PREVENT SEDIMENT-LADEN RUNOFF FROM ENTERING THE BASINS. ANY SEDIMENT DEPOSITED WITHIN THE BASINS OR TRAPPED BY THE FILTER SOCK AND SILT FENCE MUST BE PROMPTLY REMOVED. SEDIMENT-LADEN RUNOFF HAS THE POTENTIAL TO ADVERSELY AFFECT THE INFILTRATION CAPACITY OF UNDERLYING SOILS. IF SEDIMENT IS DEPOSITED INTO THE BASINS THE UNDERLYING SOILS MUST BE EXCAVATED TO REMOVE ANY DEPOSITED SEDIMENT AND SUPPLEMENTED TO RE-ESTABLISH THE INFILTRATION CAPACITY OF THE UNDERLYING SOILS TO THEIR PRE-CONSTRUCTION CONDITION.
   - 2.3. PHASE 3 EQUIPMENT AND FENCE INSTALLATION
     - 2.3.1. CLEAR AND GRUB ONLY AS NEEDED TO COMPLETE THE WORK INCLUDED IN PHASE 3.
     - 2.3.2. GRADE AND PREPARE AREA WITHIN FENCE AS NECESSARY FOR SOLAR ARRAY INSTALLATION.
     - 2.3.3. INSTALL TEMPORARY STABILIZATION.
     - 2.3.4. RESTORE TEMPORARY SEDIMENT TRAPS.
     - 2.3.5. INSTALL PERIMETER FENCE, SOLAR ARRAY, AND ASSOCIATED WORK.
     - 2.3.6. INSTALL LEVEL STONE TRENCHES.
     - 2.3.7. REMOVE AND RESTORE TEMPORARY LAYDOWN AREA BY REMOVING CRUSHED STONE AND FILTER CLOTH AND SUITABLY TILLING AND AMENDING SOILS TO RESTORE INFILTRATION CAPACITY. AERATE ANY EXISTING TURF AREAS THAT HAVE BECOME COMPACTED DURING CONSTRUCTION.
   - 2.4. PHASE 4 FINAL SITE STABILIZATION
     - 2.4.1. PERMANENTLY STABILIZE SITE.
     - 2.4.2. INSPECT, CLEAN, AND REPAIR ALL BASINS AND FOREBAYS.
     - 2.4.3. REMOVE RIDEM PERMIT SIGN, LOD MARKINGS, TEMPORARY POLLUTION PREVENTION MEASURES, AND TEMPORARY EROSION AND SEDIMENT CONTROLS.
     - 2.4.4. COMPLETE FINAL SITE STABILIZATION OF ALL REMAINING DISTURBED AREAS AFTER REMOVAL OF TEMPORARY EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES.
     - 2.4.5. COMPLETE SITE CLEANUP AND RESTORATION.

EROSION & SEDIMENTATION 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 RIPDES CONSTRUCTION GENERAL PERMIT.
2. EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AS SHOWN HEREIN OR AS DIRECTED BY A THIRD PARTY DESIGNATED SITE INSPECTOR.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES TO PREVENT OFF-SITE TRACKING OF EARTH, SEDIMENT AND DEBRIS. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT OF WAYS AT THE END OF EACH DAY.
4. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. THE ENTRANCE SHALL BE APPROXIMATELY 50 FEET LONG, AND SHALL BE MADE OF CRUSHED STONE CONSISTENT WITH RIDOT MATERIAL SPECIFICATION M.01.09 TABLE I, COLUMN II. THE WIDTH OF THE CONSTRUCTION ENTRANCE SHALL BE EQUAL TO THE WIDTH OF THE PROPOSED SITE ENTRANCE. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADS. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADS SHALL BE REMOVED. DURING WET WEATHER, IT MAY BE NECESSARY TO WASH VEHICLE TIRES AT THESE LOCATIONS PRIOR TO VEHICLES LEAVING THE SITE.
5. PERIMETER SOIL AND EROSION CONTROLS SHALL BE PLACED PRIOR TO ANY CONSTRUCTION ACTIVITIES. CONTRACTOR TO NOTIFY THE THIRD PARTY DESIGNATED SITE INSPECTOR AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES. ALL SOIL AND EROSION CONTROLS SHALL BE CHECKED AND REPAIRED AS NECESSARY.
6. ALL TEMPORARY EROSION, RUNOFF, SEDIMENT, AND POLLUTION PREVENTION CONTROL MEASURES SHALL BE INSTALLED BY THE TIME EACH PHASE OF EARTH DISTURBANCE HAS BEGUN.
7. EXISTING PLANTABLE SOIL SHALL BE PRESERVED TO THE MAXIMUM EXTENT FEASIBLE AND AS NECESSARY TO SUPPORT HEALTHY VEGETATION, PROMOTE SOIL STABILIZATION, AND INCREASE STORMWATER INFILTRATION RATES.
8. 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.
9. TEMPORARY STRAW MULCH, WOOD CHIP 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.
10. WOOD CHIP MULCH GENERATED ON-SITE MAY BE APPLIED TO SLOPES 3:1 OR FLATTER FOR TEMPORARY EROSION CONTROL WHEN SOIL AND SITE CONDITIONS ARE SUITABLE FOR SPREADING. ALL MULCH MATERIAL SHALL BE CAPABLE OF BEING APPLIED EVENLY SUCH THAT IT PROVIDES 100% INITIAL SOIL COVERAGE AND ADHERES TO THE SOIL SURFACE, DOES NOT SLIP ON SLOPES WHEN IT RAINS OR IS WATERED, DOES NOT BLOW OFF SITE AND DISSIPATES RAINDROP SPLASH. SPREAD WOOD CHIP MULCH UNIFORMLY RESULTING IN 100% COVERAGE OF DISTURBED SOIL TO BE STABILIZED. SUGGESTED APPLICATION RATE IS 6 CY/1,000 SQ FT. DO NOT SPREAD WOOD CHIPS ON SLOPES SO THICK THAT IT WILL SLIP OR SLUMP.
11. IF SEEDING IS PERFORMED WHERE WOOD CHIPS HAVE BEEN PREVIOUSLY APPLIED, THE WOOD CHIPS SHOULD BE REMOVED OR TILLED INTO THE GROUND AND ADDITIONAL NITROGEN APPLIED PRIOR TO SEEDING. NITROGEN APPLICATION RATE SHALL BE DETERMINED BY SOIL TEST AT TIME OF SEEDING.
12. WHERE SOIL PROTECTION FALLS BELOW 100%, REAPPLY SOIL PROTECTION WITHIN 48 HOURS. DETERMINE THE CAUSE OF THE FAILURE. IF FAILURE WAS THE RESULT OF WIND, CONSIDER APPLYING A TACKIFIER OR NETTING. IF FAILURE WAS CAUSED BY CONCENTRATING WATER, INSTALL ADDITIONAL MEASURES TO CONTROL WATER AND SEDIMENT MOVEMENT, REPAIR EROSION DAMAGE, REAPPLY MULCH WITH ANCHORING OR USE TEMPORARY EROSION CONTROL BLANKETS.
13. 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 (HYDORSEED). 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.
14. 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.
15. ALL DISTURBED OR UNVEGETATED SOIL SHALL HAVE A MINIMUM OF FOUR INCHES OF LOAM (RIDOT M.18.01) OR PLANTABLE SOIL (RIDOT M.18.02) PLACED BEFORE BEING PERMANENTLY SEEDED AND MULCHED AS APPLICABLE. LOAM OR PLANTABLE SOIL FROM AN OFF SITE BORROW SOURCE SHALL BE SAMPLED AND APPROVED FOR USE PRIOR TO ITS DELIVERY TO THE SITE.
16. PERMANENT SEEDING SHALL BE APPLIED HYDRAULICALLY. REFER TO THE GENERAL LANDSCAPE AND SEEDING NOTES ON DRAWING L-3. HYDROSEED PRODUCTS APPROVED BY THE ENGINEER SHALL BE APPLIED AS PERMANENT SEEDING PRIOR TO INSTALLING EROSION CONTROL BLANKETS OR TURF REINFORCEMENT MATS. GROUNDWATER SEEPAGE OCCURRING AT CUT SLOPES SHALL BE ADDRESSED PRIOR TO INSTALLING HYDROSEED AND EROSION CONTROL BLANKET/TURF REINFORCEMENT MAT.
17. PERMANENT SEEDING SHALL BE USED ON AREAS SHOWN AND 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). REFER TO THE SEEDING NOTES ON DRAWING L-3 FOR THE SEED MIXTURES TO BE USED FOR PERMANENT STABILIZATION.
18. FULL ADVANTAGE SHALL BE TAKEN OF TIME AND WEATHER CONDITIONS BEST SUITED FOR SEEDING. REFER TO THE SEEDING NOTES ON DRAWING L-3 FOR THE NORMAL DATES FOR PERMANENT SEEDING. 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 31ST AND AUGUST 15TH SHALL BE COVERED WITH STRAW MULCH. DURING THESE MONTHS, TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING.
19. DUST FROM THE SITE SHALL BE CONTROLLED BY USING COVERED TRUCKS, WETTING EXPOSED SOIL AREAS, SEEDING, INSTALLING WIND SCREENS AND/OR BARRIERS, MINIMIZING UNNECESSARY TRANSFERS AND DISTURBANCES OF EARTH MATERIALS AND ON-GOING CONSTRUCTION CLEAN-UP. SEVERAL APPLICATIONS PER DAY MAY BE NECESSARY DEPENDING UPON WEATHER CONDITIONS AND WORK ACTIVITY. DUST CONTROL TREATMENT AGENTS SHALL NOT BE APPLIED.
20. 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.
21. INSPECTIONS OF EROSION CONTROLS SHALL BE CONDUCTED BY QUALIFIED PERSONNEL, AS DESIGNATED BY THE RIPDES CGP, RETAINED BY AND REPORTING TO RENEW SOLAR RI EXETER TEN, LLC. (THIRD PARTY DESIGNATED SITE INSPECTOR). INSPECTIONS OF EROSION CONTROLS MUST BE 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. ALL DAMAGED EROSION CONTROLS SHALL BE REPLACED. ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.
22. FILL MATERIAL SHALL BE FREE OF STUMPS, WOODS, ROOTS, AND OTHER DELETERIOUS MATERIAL.
23. SOIL AND MATERIAL STOCKPILES SHALL BE LOCATED AND MANAGED AS SHOWN HEREIN, AND AS SPECIFIED BY THE ENGINEER. ALL SOIL STOCKPILES SHALL BE SURROUNDED BY EROSION CONTROL BARRIERS REGARDLESS OF THEIR DURATION OF EXPOSURE UNTIL SUCH TIME AS THE MATERIAL IS RESPREAD AND STABILIZED OR TRANSPORTED OFF SITE. STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH OR COVERED WITH POLYETHYLENE SHEETING. SOIL AND MATERIAL STOCKPILES SHALL NOT BE LOCATED IN AREAS ASSOCIATED WITH PERMANENT STORMWATER BASINS.
24. SELF-INSTALLED ABOVE-GRADE CONCRETE WASHOUTS SHOULD BE CONSTRUCTED WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FEET, BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUIDS AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. INCLUDE A MINIMUM OF 12 INCHES OF FREEBOARD IN THE SIZING CALCULATIONS. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NOT LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE, SLURRIES AND LIQUIDS SHALL BE REMOVED AND PROPERLY DISPOSED OF.
25. ONCE GRADED, STORMWATER BASINS SHALL BE SURROUNDED WITH SNOW FENCE AND PROTECTED FROM HEAVY EQUIPMENT. IF THE SOIL OR SAND FILTER BECOMES COMPACTED, IT SHALL BE SUITABLY AMENDED, TILLED, AND RE-VEGETATED AS NEEDED ONCE CONSTRUCTION IS COMPLETE TO RESTORE INFILTRATION CAPACITY.
26. THE TEMPORARY LAYDOWN AREA SHALL BE RESTORED TO ORIGINAL CONDITIONS WITHIN FOURTEEN DAYS AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED. THE SUBGRADE SHALL BE SUITABLY AMENDED, TILLED, AND RE-VEGETATED TO RESTORE INFILTRATION CAPACITY.

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OFFICE OF WATER RESOURCES
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PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL
2023-08-15 15:09-04:00

No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	TOWN PRELIM. PLAN APPROVAL CONDITION	4/14/23	JKT	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD. NOTES

FOR PERMITTING ONLY

Drawing No.
N-1

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 2 OF 26

RI Environmental Management
AUG 17 2023
Office of Water Resources

DATE: Aug 15, 2023 - 10:25AM
FILENAME: G:\Waltham\Jobs\V833-000 Nautilus Solar-- Exeter Ten Solar-- Design and Permitting\04 GSI\PROFILES\CAD\Drawings\ROEM P0V833-000 Exeter Ten Solar PD Notes.dwg

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STORMWATER BASIN NOTES:

1. AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF PLANTABLE SOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED. ALL GRADED AREAS SHALL BE NO STEEPER THAN 3:1. ALL TREES SHALL BE CLEARED AND GRUBBED WITHIN 15 FEET OF THE TOE OF THE EMBANKMENT, AND WITHIN 25 FEET OF THE PRINCIPAL SPILLWAY OUTLET. AREAS TO BE COVERED BY THE DETENTION BASIN WILL BE CLEARED OF ALL BOULDERS TREES, BRUSH, LOGS, FENCES, RUBBISH AND OTHER OBJECTIONABLE MATERIAL.
2. ALL WORK ON 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 BASINS.
3. 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 OF 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.
4. ALL EXCAVATED AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING.
5. FILL MATERIAL - THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND MUST HAVE AT LEAST 30% PASSING THE #200 SIEVE. MATERIALS USED IN THE OUTER SHELL OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION OF THE QUALITY REQUIRED TO PREVENT EROSION OF THE EMBANKMENT.
6. PLACEMENT - AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8-INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SPILLWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.
7. COMPACTION - THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF HEAVY EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER TIRED OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL IT WILL NOT CRUMBLE, YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT. WHEN REQUIRED BY THE APPROVING AGENCY THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99 (STANDARD PROCTOR).

TEMPORARY SEDIMENT TRAP NOTES

1. CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
2. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS. 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.
3. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES, SEEDING FOR TEMPORARY VEGETATIVE COVER; SEEDING FOR PERMANENT VEGETATIVE COVER; OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.
4. CARRY OUT CONSTRUCTION OPERATIONS IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
5. 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. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. THE HEIGHT OF THE STONE OUTLET OR WEIR CREST SHOULD BE MAINTAINED AT LEAST 1 FOOT BELOW THE CREST OF THE EMBANKMENT. ALSO CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
6. 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. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

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.
8. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN EXCAVATING NEAR AND BACKFILLING IN THE VICINITY OF EXISTING UTILITIES, INCLUDING THE USE OF HAND EXCAVATION WHERE APPROPRIATE.

SITEWIDE CUT/FILL ANALYSIS

CUT (CUBIC YARDS)	FILL (CUBIC YARDS)	NET CUT (CUBIC YARDS)
2095 +/-	1951 +/-	144 +/-

PROPOSED LEGEND

- OHW — OHW — OVERHEAD WIRES
- UGE — UGE — UNDERGROUND ELECTRIC
- x — x — CHAIN LINK FENCE
- // // // // // — CHAIN LINK FENCE WITH PRIVACY SLATS
- LOD — LOD — LIMITS OF DISTURBANCE
- SLOD — SLOD — COMBINED LIMITS OF DISTURBANCE / FILTER SOCK & SILT FENCE
- SF — FILTER SOCK & SILT FENCE
- FS — FILTER SOCK
- LIMITS OF SHADE TREE CLEARING
- CRUSHED STONE ACCESS ROAD
- REINFORCED ACCESS ROAD
- SANDFILTER
- UTILITY POLE (CUSTOMER OWNED)
- UTILITY POLE (UTILITY OWNED)
- TP — TEST PIT

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 24 2023 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Stanley L. Freeman

EMERGENCY CONTACT NUMBERS

EXETER FIRE DEPARTMENT	(401) 295-3173
EXETER TOWN SARGENT'S OFFICE	(401) 294-3720
IN THE CASE OF AN EMERGENCY, DIAL 911	

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

RENEW SOLAR RI EXETER TEN, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2023-08-15 15:10-04:00

No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	TOWN FINAL PLAN	08/15/2023	GJR	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD. NOTES

FOR PERMITTING ONLY

DRAWING NO: **N-2**

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 3 OF 26

RI Environmental Management
AUG 17 2023
Office of Water Resources

DATE: Aug 15, 2023 - 10:25AM
FILENAME: G:\Waltham\Jobs\V633-000 Nautilus Solar- Exeter Ten Solar- Design and Permitting\04 GRAPHICS\CAD\Drawings\V633EM P01V633-000 Exeter Ten Solar PD Notes.dwg

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POB
(BK. 217, PG. 145)
& SURVEYORS
DESCRIPTION

TEN ROD ROAD

DECORATIVE ACCESS GATE

50' PER. WETLAND

POINT OF INTERCONNECTION

MAP 24 - BLOCK 1 - LOT 4
N/F LANDS OF
AUDUBON SOCIETY OF RI
BK. 101, PG. 510
#0 TEN ROD ROAD

N

APPROX LOC OF FLOOD ZONE LINE (PER REF #2)

ZONE "X-UNSHADED"

ZONE "X-SHADED"

100' FRONT SETBACK

NATURAL HERITAGE AREA

CRUSHED STONE ACCESS ROAD
(STA. 0+00 TO STA. 2+35)

12 FT WIDE ACCESS ROAD

EQUIPMENT PAD

LOC OF STREAM SHOWN PER FIELD LOCATION

100' RIVERBANK WETLAND

APPROX LOC OF FLOOD ZONE LINE (PER REF #2)

50' PER. WETLAND

MAP 37 - BLOCK 1 - LOT 7
N/F LANDS OF
MATTHEW B. ARMSTRONG

MAP 37 - BLOCK 1 - LOT 6
N/F LANDS OF
BRIAN T. MAUHS
BK. 527, PG. 56
#44 TEN ROD ROAD

209 FT ± TO NEAREST
OFF-SITE RESIDENCE

343 FT ± TO
TEN ROD ROAD

MAP 37 - BLOCK 5 - LOT 3
N/F LANDS OF
DAVID E. PAYETTE &
JENNIFER W. PAYETTE
BK. 394, PG. 311
#5 LOCUST VALLEY ROAD

REINFORCED ACCESS ROAD
(STA. 2+35 TO END)

LIMITS OF DISTURBANCE
13.4± AC

7-FT CHAIN LINK FENCE
10.9± AC

24 FT WIDE GATE
WITH KNOX LOCK

EQUIPMENT PAD

MAP 37 - BLOCK 5 - LOT 4
N/F LANDS OF
MARVIN M. PELSER, JR. &
SHARON A. PELSER
(PER TOWN GIS)
#17 LOCUST VALLEY ROAD

WETLAND 1

BASIN 3

SOLAR ARRAY
7.3± ACRES
3.7± MW DC
6,864± MODULES

50' SIDE SETBACK

100' SOIL DIST. SETBACK

LOC OF UNNAMED STREAM
SHOWN PER FIELD LOCATION

EDGE OF WATER

APPROX LOC OF EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7

50' PER. WETLAND

MAP 37 - BLOCK 5 - LOT 5
N/F LANDS OF
PATRICIA HOWLAND &
MATTHEW HOWLAND
BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

MAP 37 - BLOCK 1 - LOT 8
N/F LANDS OF
STEPHEN R. MATTSCHECK
BK. 105, PG. 817
#628 TEN ROD ROAD

APPROX LOC OF FLOOD ZONE LINE (PER REF #3)

80' SIDE SETBACK

BASIN 4

BASIN 2

100' SOIL DIST. SETBACK

LOC OF FISHERVILLE BROOK SHOWN PER FIELD LOCATION

FISHERVILLE BROOK

APPROX LOC OF FLOOD ZONE LINE (PER REF #3)

SPECIAL AQUATIC SITE (WETLAND 2)

BASIN 1

200' RIVERBANK WETLAND

50' PERIMETER WETLAND

100' SOIL DIST. SETBACK

LIMIT OF SHADE TREE CUTTING
6.9± AC

MAP 37 - BLOCK 5 - LOT 6
N/F LANDS OF
PAUL R. STORTI &
CHARLENE M. STORTI
BK. 54, PG. 522
#35 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 14
N/F LANDS OF
CRAIG ALAN SWANSON
BK. 399, PG. 237
#59 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 15
N/F LANDS OF
THERESA C. DONOVAN &
WILLIAM G. DONOVAN
BK. 106, PG. 324
#75 LOCUST VALLEY ROAD

APPROX LOC OF FLOOD ZONE LINE (PER REF #3)

EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7

BRANCH OF QUEEN RIVER AKA FISHERVILLE BROOK

EDGE OF FISHERVILLE BROOK (SHOWN PER REF #3)

MAP 37 - BLOCK 1 - LOT 9
N/F LANDS OF
STEPHEN P. MATTSCHECK
(PER TOWN GIS)
#0 HALLVILLE ROAD

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 24 2023 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

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404 Wyman Street, Suite 375
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RENEW SOLAR RI EXETER TEN, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

0 100' 200'
SCALE: 1" = 100'

2023-08-15
15:10-04:0
0

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD.
SITE OVERVIEW PLAN

FOR PERMITTING ONLY

DRAWING NO:
SO-1

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 4 OF 26

RI Environmental Management
AUG 17 2023
Office of Water Resources

DATE: Aug 15, 2023 — 10:28AM
DRAWING: K:\Projects\016226-000 Nautilus Solar– Exeter Ten Solar– Design and Permitting\04 GRAPHICS\CAD\Drawings\BUDEN (FI)\V6320–000 Exeter Ten Solar PP Site Overview.dwg

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TEN ROD ROAD

PAVED APRON

POINT OF INTERCONNECTION

DECORATIVE ACCESS GATE

NATIONAL GRID UTILITY POLE (TYP.)

REBUILT STONE WALL AND PLANTINGS AS SHOWN ON DRAWING L-1

CUSTOMER OWNED UTILITY POLE (TYP.)

SELECTIVELY PRUNE LIMBS AS REQUIRED FOR OVERHEAD WIRE CROSSING

CRUSHED STONE ACCESS ROAD (STA. 0+00 TO STA. 2+35)

STABILIZE DISTURBED AREAS WITH SEED MIX AS SHOWN ON THE LANDSCAPE PLANS

12 FT WIDE ACCESS ROAD

EQUIPMENT PAD

24 FT WIDE GATE WITH KNOX LOCK

REINFORCED ACCESS ROAD (STA. 2+35 TO END)

20 FT WIDE ACCESS ROAD

LIMITS OF DISTURBANCE
13.4± AC

7-FT CHAIN LINK FENCE
10.9± AC

LIMIT OF SHADE TREE CLEARING

EQUIPMENT PAD

MAINTAIN EXISTING VEGETATION. SUPPLEMENT PER LANDSCAPE PLANS

SEE LANDSCAPE PLANS FOR SEED MIX

SELECTIVELY CUT SHADE TREES. STUMPS AND UNDERGROWTH TO REMAIN. STABILIZE DISTURBED AREAS WITH SEED MIXES OR VEGETATIVE SCREENING. REFER TO THE LANDSCAPE PLANS.

SEE LANDSCAPE PLANS FOR SEED MIX

STONE WALLS TO BE REMOVED AS NEEDED

SOLAR ARRAY
7.3± ACRES
3.7± MW DC
6,864± MODULES

BASIN 3

WETLAND 1

100' RIVERBANK WETLAND

50' PER WETLAND

100' R.B. WETLAND

100' SOIL DIST. SETBACK

100' FRONT SETBACK

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

MAP 37 - BLOCK 1 - LOT 7
N/F LANDS OF
MATTHEW B. ARMSTRONG
BK. 534, PG. 303
#554 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 4
N/F LANDS OF
BRIAN T. MAUHS
BK. 527, PG. 56
#544 TEN ROD ROAD

MAP 37 - BLOCK 5 - LOT 3
JENNIFER W. PAYETTE
BK. 394, PG. 311
#5 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 4
N/F LANDS OF
MARVIN M. PELSER, JR. &
SHARON A. PELSER
(PER TOWN GIS)
#17 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 5
N/F LANDS OF
PATRICIA HOWLAND &
MATTHEW HOWLAND
BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

MATCH LINE DRAWING NO. C-2

MATCH LINE DRAWING NO. C-2

NOTES:

1. FINAL LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRES, POLES, INVERTERS, ETC. TO BE DETERMINED BY OTHERS AND APPROVED BY OWNER. ALL ELECTRICAL CONNECTION AND DISTRIBUTION WITHIN THE ARRAY SHALL BE UNDERGROUND. ALL UNDERGROUND ELECTRICAL NOT SHOWN ON THIS PLAN SET.
2. FINAL NUMBER AND LOCATION OF SOLAR MODULES TO BE DESIGNED BY OTHERS. PRIOR TO INSTALLATION. FINAL NUMBER AND LOCATION MAY VARY AS NEEDED WITHIN PROPOSED FENCE LINE. MAX PANEL HEIGHT SHALL NOT EXCEED 15 FEET.
3. 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.
4. 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 A MINIMUM OF ONE (1) SIGN EACH FENCE SIDE AROUND THE FULL INSTALLATION PERIMETER.
5. POST SIGNAGE WITH 24-HOUR EMERGENCY CONTACT INFORMATION ON THE VEHICLE GATE.
6. EXTERIOR LIGHTING IS NOT PROPOSED.
7. DECORATIVE ACCESS GATE SUBJECT TO APPROVAL BY TOWN PLANNER PRIOR TO INSTALLATION.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE: 1" = 50'

2023-08-15 15:10-04:00

No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	TOWN PRELIM. PLAN APPROVAL CONDITION	4/14/23	JKT	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD.
LAYOUT AND MATERIALS PLAN

FOR PERMITTING ONLY

DRAWING NO: **C-1**

PROJECT NO: 016228
DATE OF ISSUE: 5/2/2022
SHEET NO: 5 OF 26

RI Environmental Management
AUG 17 2023
Office of Water Resources

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DATE: Apr 15, 2023 - 11:09AM
FILENAME: C:\Waltham Jobs\16228-000 Nautilus Solar- Exeter Ten Solar- Design and Permitting\04 GRAPHICS\GIS\Drawings\RIDEM PP\16228-000 Exeter Ten Solar PD Layout and Materials.dwg

MATCH LINE DRAWING NO. C-1

MATCH LINE DRAWING NO. C-1

N

BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

CART PATH

SOLAR ARRAY
7.3± ACRES
3.7± MW DC
6,864± MODULES

BASIN 4

BASIN 2

BASIN 1

100' SOIL DIST. SETBACK

APPROX LOC OF FLOOD ZONE LINE (PER REF #3)

LOC OF UNNAMED STREAM SHOWN PER FIELD LOCATION

APPROX LOC OF EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7

WETLAND FLAG 1-38 NOT FOUND

LOC OF FISHERVILLE BROOK SHOWN PER FIELD LOCATION

FISHERVILLE BROOK

EDGE OF WATER

EDGE OF WOODS

EDGE OF WETLAND (SEE NOTE #14)

ZONE "X" ZONE "X-UNSHADED"

WETLAND 1

SPECIAL AQUATIC SITE (WETLAND 2)

200' RIVERBANK WETLAND

50' PERIMETER WETLAND

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

MAP 37 - BLOCK 5 - LOT 6
N/F LANDS OF
PAUL R. STORTI &
CHARLENE M. STORTI
BK. 54, PG. 522
#35 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 14
N/F LANDS OF
CRAIG ALAN SWANSON
BK. 399, PG. 237
#59 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 15
N/F LANDS OF
THERESA C. DONOVAN &
WILLIAM G. DONOVAN
BK. 106, PG. 324
#75 LOCUST VALLEY ROAD

LIMIT OF SHADE TREE CLEARING

MAINTAIN EXISTING VEGETATION.
SUPPLEMENT PER LANDSCAPE PLANS

SELECTIVELY CUT SHADE TREES.
STUMPS AND UNDERGROWTH TO REMAIN. STABILIZE DISTURBED AREAS WITH SEED MIXES OR VEGETATIVE SCREENING. REFER TO THE LANDSCAPE PLANS.

SEE LANDSCAPE PLANS FOR SEED MIX

SEE LANDSCAPE PLANS FOR SEED MIX

100' SOIL DIST SETBACK

APPROX LOC OF FLOOD ZONE LINE (PER REF #3)

ZONE "X" ZONE "X-UNSHADED"

BRANCH OF QUEEN RIVER AKA FISHERVILLE BROOK

EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7

EDGE OF FISHERVILLE BROOK (SHOWN PER REF #5)

LOC OF WLF F1-53 THROUGH F1-76 SHOWN PER REF. 7

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 24 2023 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

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404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
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RENEW SOLAR RI EXETER TEN, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2023-08-15
15:10-04:0
0

SCALE: 1" = 50'

No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	TOWN FINAL PLAN	08/15/2023	GJR	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD.
LAYOUT AND MATERIALS PLAN

FOR PERMITTING ONLY

DRAWING NO:
C-2

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 6 OF 26

RI Environmental Management
AUG 17 2023
Office of Water Resources

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DATE: Aug 15, 2023 - 10:04am
FILENAME: G:\Waltham\Jobs\V4335-002 Nautilus Solar— Exeter Ten Solar— Design and Permitting\V4 GRAPHICS\CAD\Drawings\RIDEM_PD\V4335-000 Exeter Ten Solar PD Layout and Materials.dwg

N

TEN ROD ROAD

EDGE OF WOODS

RHODE ISLAND HIGHWAY BOUNDARY

50' PERC. WETLAND

100' FRONT SETBACK

APPROX LOC OF FLOOD ZONE LINE (PER REF #2)

ZONE "X" UNSHADED

ZONE "A" UNNUMBERED

EDGE OF WETLAND (SEE NOTE #14)

LOC OF STREAM SHOWN PER FIELD LOCATION

1 STORY FRAME BUILDING

STONE WALL

100' R.B. WETLAND

100' SOIL DIST. SETBACK

SEE INSET VIEW

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

MAP 37 - BLOCK 1 - LOT 7
N/F LANDS OF
MATTHEW B. ARMSTRONG
BK. 534, PG. 303
#554 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 6
N/F LANDS OF
BRIAN T. MAUHS
BK. 527, PG. 56
#544 TEN ROD ROAD

Per RIDEM
Area crosshatched is for installation of native trees & shrubs. No clearing of existing vegetation is authorized. See Condition No. 10 of the revised permit letter.

GRASS CHANNEL 3N
WITH TRM
BOTTOM WIDTH: 2 FT
DEPTH: 1 FT
LENGTH: 90 FT

RIVERBANK WETLAND

10-FT-WIDE BMP MAINTENANCE ACCESS

EMERGENCY SPILLWAY
LEVEL LIP EL: 179.25
CREST WIDTH: 15.0 FT

STONE BERM
CREST ELEV: 177.00
END ELEV: 180.00

BASIN 3
BOTTOM EL.: 176.50
BERM EL.: 181.75
BERM WIDTH: 5 FT

WETLAND 1

EDGE OF WETLAND (PER REF. 7)

LOC OF UNNAMED STREAM SHOWN PER FIELD LOCATION

GRASS CHANNEL 4
WITH TRM
BOTTOM WIDTH: 2 FT
DEPTH: 2 FT
LENGTH: 240 FT

APPROX LOC OF EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7

50' PERC. WETLAND

100' SOIL DIST. SETBACK

STONE CHECK DAM

TP 1

TP 2

LEVEL STONE TRENCH (TYP.)

MAP 37 - BLOCK 5 - LOT 3
N/F LANDS OF
DAVID E. PAYETTE &
JENNIFER W. PAYETTE
BK. 394, PG. 311
#5 LOCUST VALLEY ROAD

GRASS CHANNEL 3S
WITH TRM
BOTTOM WIDTH: 8 FT
DEPTH: 1 FT
LENGTH: 330 FT

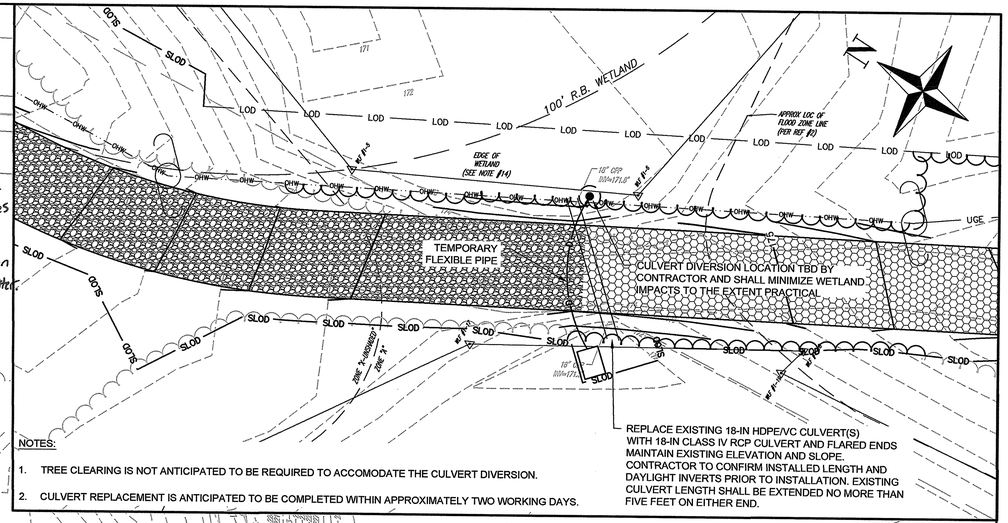
LIMIT OF SHADE TREE CLEARING

MAP 37 - BLOCK 5 - LOT 4
N/F LANDS OF
MARVIN M. PELSER, JR. &
SHARON A. PELSER
(PER TOWN GIS)
#17 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 5
N/F LANDS OF
PATRICIA HOWLAND &
MATTHEW HOWLAND
BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

MATCH LINE DRAWING NO. C-4

MATCH LINE DRAWING NO. C-4



NOTES:

1. TREE CLEARING IS NOT ANTICIPATED TO BE REQUIRED TO ACCOMODATE THE CULVERT DIVERSION.
2. CULVERT REPLACEMENT IS ANTICIPATED TO BE COMPLETED WITHIN APPROXIMATELY TWO WORKING DAYS.

INSET VIEW
SCALE: 1"=10'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 2 4 2023 FILE #: 22-0160
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AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE: 1" = 50'

2023-08-15 15:11-04:00

No.	REVISION	DATE	DRAWN	DESIGN	CHK
3	RESPONSE TO PEER REVIEW COMMENTS	6/14/2023	GJR	GJR	JMG
2	RESPONSE TO PEER REVIEW COMMENTS	4/14/2023	JKT	JMG	JMG
1	RESPONSE TO RIDEM COMMENTS	6/30/2022	GJR	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD.
GRADING AND DRAINAGE PLAN

FOR PERMITTING ONLY

DRAWING NO:
C-3

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 7 OF 26

RI Environmental Management
AUG 17 2023
Office of Water Resources

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DATE: Aug 15, 2023 - 10:27AM
FILENAME: G:\Waltham\Jobs\V632-000 Hautlux Solar– Exeter Ten Solar– Design and Permitting\GIS GRAPHICS\CAD\Drawings\VRDEM PD\V632-000 Exeter Ten Solar PD Grading and Drainage.dwg

MATCH LINE DRAWING NO. C-3

MATCH LINE DRAWING NO. C-3

N

GRASS CHANNEL 4
WITH TRM
BOTTOM WIDTH: 2 FT
DEPTH: 2 FT
LENGTH: 240 FT

STONE BERM
CREST ELEV: 174.50
END ELEV: 175.00

BASIN 4
BOTTOM EL.: 174.00
BERM EL.: 175.00
BERM WIDTH: 3 FT

EMERGENCY SPILLWAY
LEVEL LIP EL: 174.50
CREST WIDTH: 10.0 FT

10-FT WIDE BMP MAINTENANCE ACCESS (PER REF #2)

STONE BERM
CREST ELEV: 175.50
END ELEV: 176.00

BASIN 2
BOTTOM EL.: 175.00
BERM EL.: 176.00
BERM WIDTH: 5 FT

EMERGENCY SPILLWAY
LEVEL LIP EL: 175.50
CREST WIDTH: 20.0 FT

GRASS CHANNEL 2
WITH TRM
BOTTOM WIDTH: 2 FT
DEPTH: 1 FT
LENGTH: 135 FT

SPECIAL AQUATIC SITE (WETLAND 2)

EMERGENCY SPILLWAY
LEVEL LIP EL: 182.50
CREST WIDTH: 15.0 FT

BASIN 1
BOTTOM EL.: 180.00
BERM EL.: 184.00
BERM WIDTH: 5 FT

PEA GRAVEL DIAPHRAGM
LENGTH: 275 FT SURFACE
ELEV: 182.50

10-FT WIDE BMP MAINTENANCE ACCESS

LEVEL STONE TRENCH (TYP.)

LIMIT OF SHADE TREE CLEARING

TP 5

TP 4

TP 3

WETLAND 1

50' PERIMETER WETLAND

200' RIVERBANK WETLAND

100' SOIL DIST. SETBACK

FISHERVILLE BROOK

BRANCH OF QUEEN RIVER AKA FISHERVILLE BROOK

LOC OF UNNAMED STREAM SHOWN PER FIELD LOCATION

LOC OF FISHERVILLE BROOK SHOWN PER FIELD LOCATION

APPROX LOC OF EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7

APPROX LOC OF FLOOD ZONE LINE (PER REF #2)

EDGE OF WETLAND (SEE WF FLAG NOTES)

EDGE OF WATER

EDGE OF WETLAND (SEE WF FLAGS)

LOC OF WF #1-43 THROUGH #1-70 SHOWN PER REF. 7

EDGE OF FISHERVILLE BROOK (SHOWN PER REF #3)

EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7

ZONE "X" (UNSHADED)

ZONE "X" (SHADED)

ZONE "A"

OPEN FIELD

NOT FOUND

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

MAP 37 - BLOCK 5 - LOT 6
N/F LANDS OF
PAUL R. STORTI &
CHARLENE M. STORTI
BK. 54, PG. 522
#35 LOCUST VALLEY ROAD

BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 14
N/F LANDS OF
CRAIG ALAN SWANSON
BK. 399, PG. 237
#59 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 15
N/F LANDS OF
THERESA C. DONOVAN &
WILLIAM G. DONOVAN
BK. 106, PG. 324
#75 LOCUST VALLEY ROAD

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: OCT 2 4 2023 FILE #: 22-0160
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SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2023-08-15 15:11-04:00

SCALE: 1" = 50'

No.	REVISION	DATE	DRAWN	DESIGN	CHK
2	RESPONSE TO PEER REVIEW COMMENTS	6/14/2023	GJR	JMG	JMG
1	RESPONSE TO PEER REVIEW COMMENTS	4/14/2023	JKT	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD.
GRADING AND DRAINAGE PLAN

FOR PERMITTING ONLY

DRAWING NO: **C-4**

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 8 OF 26

RI Environmental Management
AUG 17 2023
Office of Water Resources

DATE: Aug 15, 2023 - 10:27AM
FILENAME: G:\Waltham\Jobs\V632-000 Nautilus Solar- Exeter Ten Solar- Design and Permitting\04 GRAPHICS\GIA\Drawings\VREM PD\V632-000 Exeter Ten Solar PD Grading and Drainage.dwg

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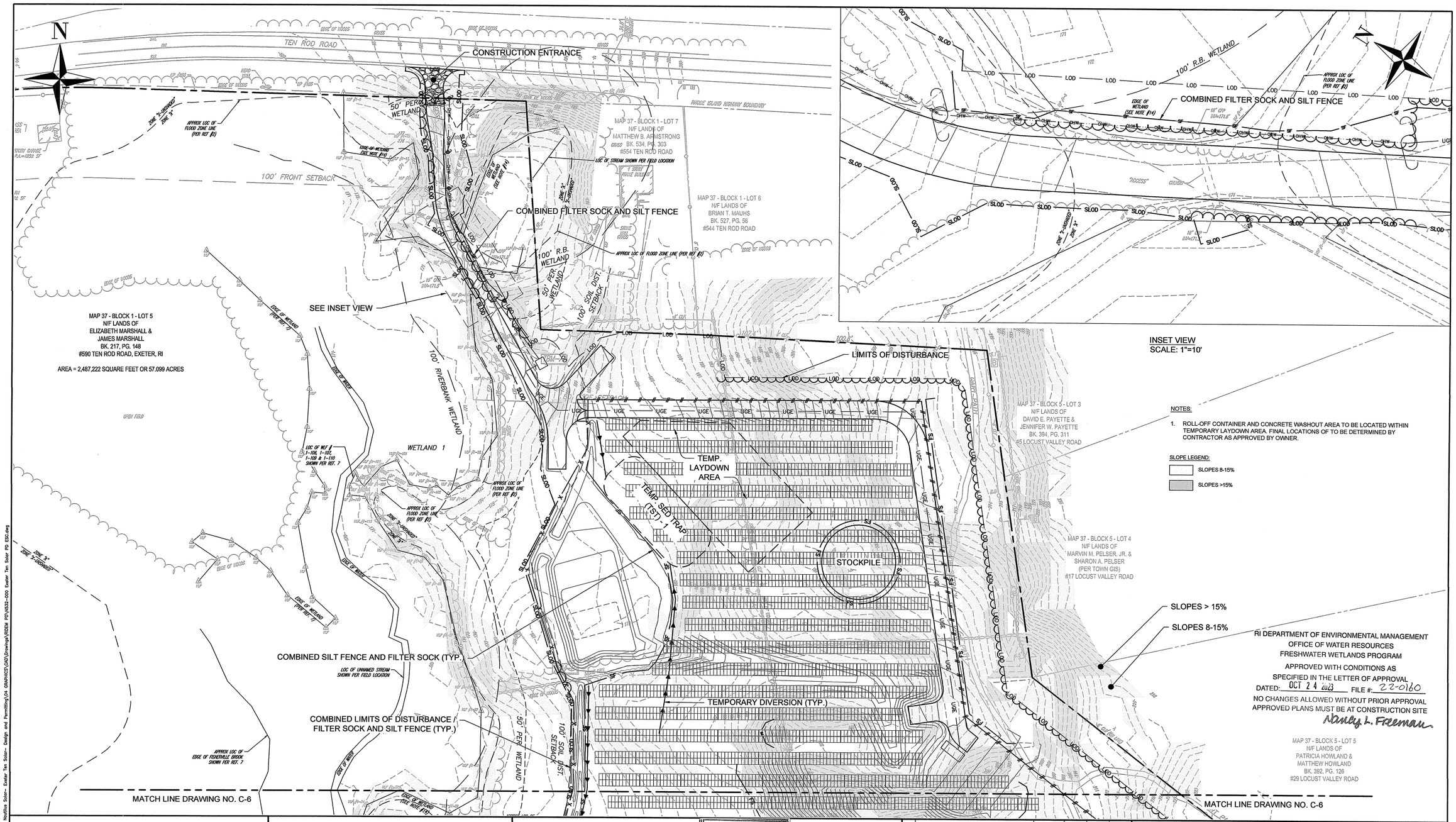

INSET VIEW
SCALE: 1"=10'

NOTES:

1. ROLL-OFF CONTAINER AND CONCRETE WASHOUT AREA TO BE LOCATED WITHIN TEMPORARY LAYDOWN AREA. FINAL LOCATIONS OF TO BE DETERMINED BY CONTRACTOR AS APPROVED BY OWNER.

SLOPE LEGEND:

SLOPES 8-15%

SLOPES >15%

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 24 2023 FILE #: 22-0160
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SUMMIT, NJ 07901

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AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE: 1" = 50'

2023-08-15 15:11-04:0 0

No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	RESPONSE TO PEER REVIEW COMMENTS	4/13/2023	JKT	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD.
EROSION AND SEDIMENT CONTROL PLAN

FOR PERMITTING ONLY

DRAWING NO:
C-5

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 9 OF 26

DATE: Aug 15, 2023 - 10:27AM
FILENAME: G:\Waltham\Vol4\16252-000 Nautilus Solar- Exeter Ten Solar- Design and Permitting\04 GRAPHICS\CAD\Drawings\WRDM PD\16252-000 Exeter Ten Solar PD ESC.dwg

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MATCH LINE DRAWING NO. C-5

MATCH LINE DRAWING NO. C-5

BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

SLOPE LEGEND:
SLOPES 8-15%
SLOPES >15%

N

FILTER SOCK (TYP.)

TEMP. SED TRAP (TST)-2

STOCKPILE

TEMPORARY DIVERSION (TYP.)

TEMP. SED TRAP (TST)-3

100' SOIL DIST. SETBACK

COMBINED LIMITS OF DISTURBANCE / FILTER SOCK AND SILT FENCE (TYP.)

WETLAND 1

200' RIVERBANK WETLAND

SPECIAL AQUATIC SITE (WETLAND 2)

50' PERIMETER WETLAND

100' SOIL DIST. SETBACK

TEMP. SED TRAP (TST)-4

MAP 37 - BLOCK 5 - LOT 6
N/F LANDS OF
PAUL R. STORTI &
CHARLENE M. STORTI
BK. 54, PG. 522
#35 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 14
N/F LANDS OF
CRAIG ALAN SWANSON
BK. 399, PG. 237
#59 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 15
N/F LANDS OF
THERESA C. DONOVAN &
WILLIAM G. DONOVAN
BK. 106, PG. 324
#75 LOCUST VALLEY ROAD

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

LIMITS OF DISTURBANCE

SLOPES 8-15%

SLOPES > 15%

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2023-08-15
15:12-04:00

0 50' 100'
SCALE: 1" = 50'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD.
EROSION AND SEDIMENT CONTROL PLAN

FOR PERMITTING ONLY

DRAWING NO:
C-6

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 10 OF 26

RI Environmental Management
AUG 17 2023
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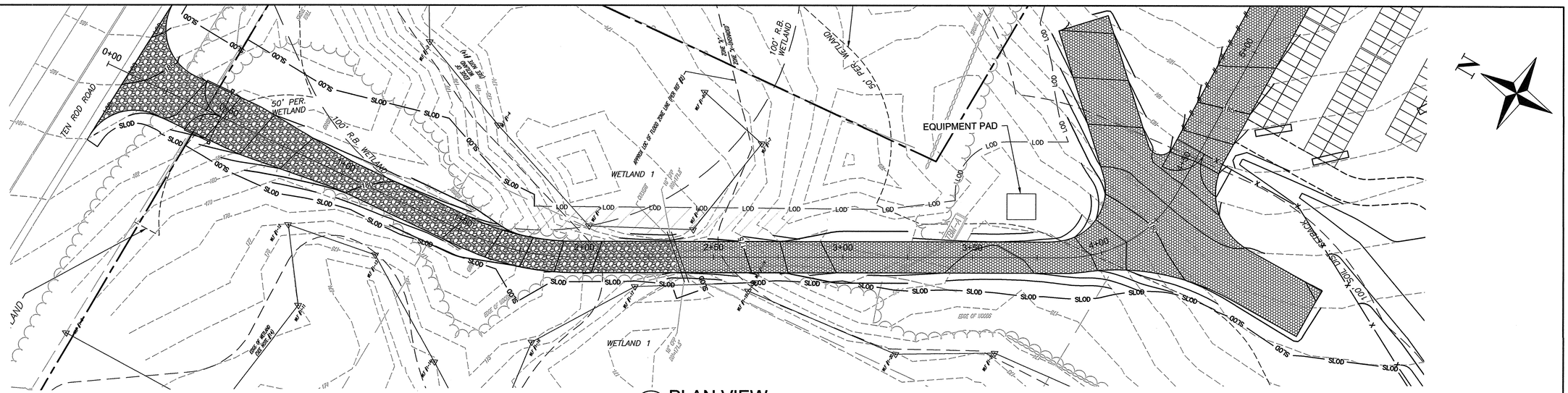
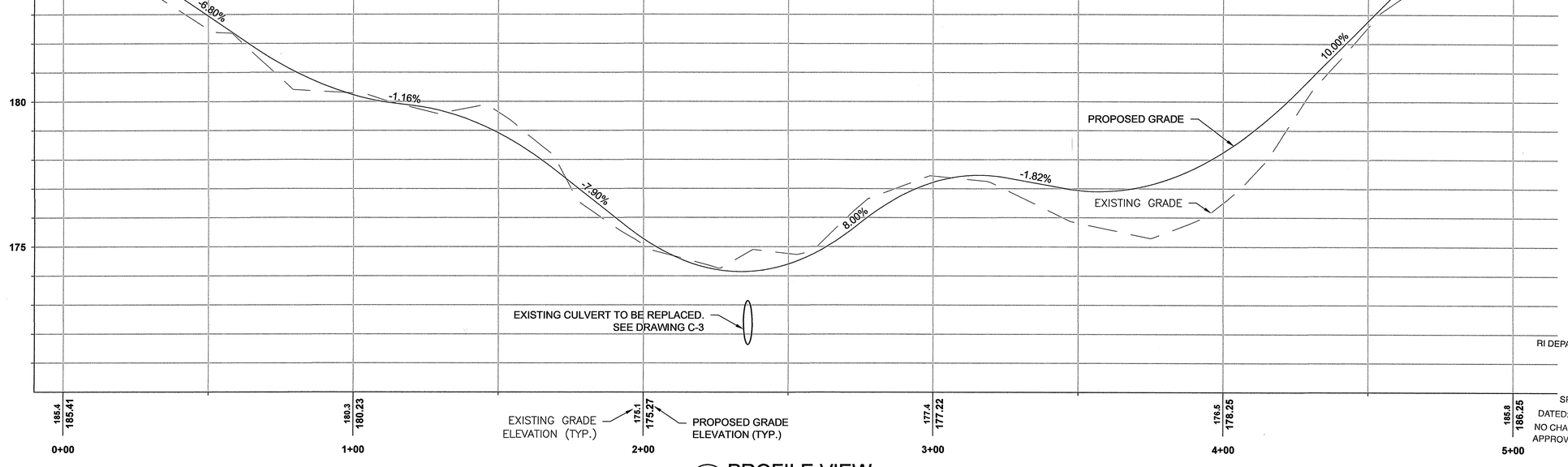
DATE: Aug 15, 2023 – 10:27AM
FILENAME: G:\Wethern\Vol4\SHARED\CAD\Drawings\052824 PSV\052832-000 Exeter Ten Solar PD ESC.dwg
Northus Solar– Exeter Ten Solar– Design and Permitting\Vol4 SHARED\CAD\Drawings\052824 PSV\052832-000



1/11 PLAN VIEW

SCALE: 1" = 20'



2/11 PROFILE VIEW

SCALE: 1" = 20' H, 1" = 10' V

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 24 2023 FILE #: 22-0160
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396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL

0 20' 40'
SCALE: 1" = 20'

2023-08-15 15:12-04:00

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD.
ACCESS ROAD PROFILE

FOR PERMITTING ONLY

DRAWING NO:
P-1

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 11 OF 26

RI Environmental Management
AUG 17 2023
Office of Water Resources

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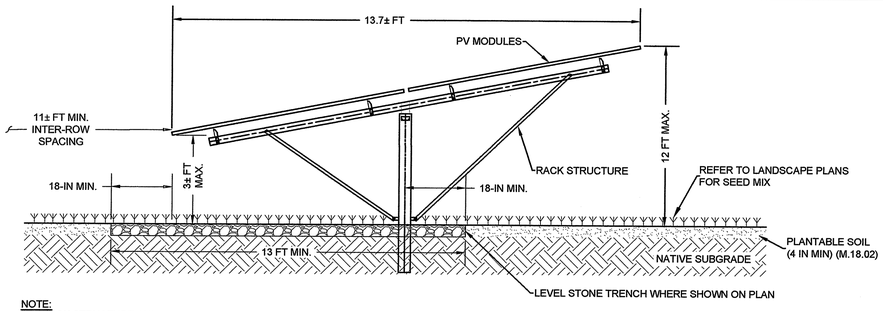
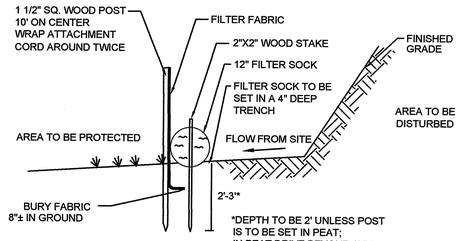
DATE: Aug 16, 2023 - 12:25AM
FILE: J:\Projects\Active\016226-000 NovaSus Solar- Exeter Ten Solar- Design and Permitting\04 GRAPHICS\CAD\Drawings\BSEM P01\NS2-000 Exeter Ten Solar P2 Road Profile.dwg

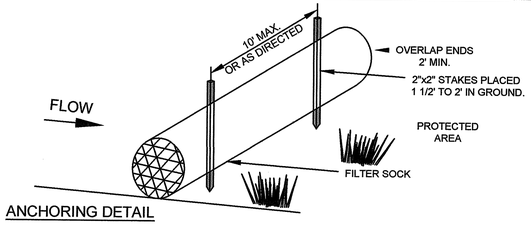


NOTE:
1. RACK STRUCTURE AND PV MODULES SHOWN FOR ILLUSTRATIVE PURPOSES. ACTUAL COMPONENTS AND DIMENSIONS AS APPROVED BY OWNER. FOUNDATION TYPE TO BE DETERMINED BY OTHERS. CONCRETE BALLASTS ARE NOT PERMITTED.

1/12 TYPICAL SOLAR PANEL AND RACK
SCALE: NTS



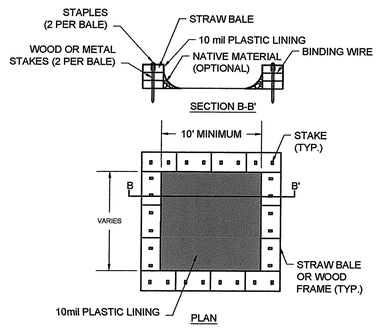
2/12 TYPICAL COMBINED SILT FENCE & FILTER SOCK
SCALE: NTS



ANCHORING DETAIL

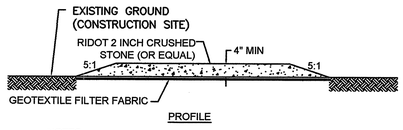
CONSTRUCTION SPECIFICATIONS
1. FILTER SOCKS SHALL BE FILTREXX SILTSOXX OR APPROVED EQUIVALENT. FILTER SOCK AND COMPOST MATERIALS SHALL BE IN ACCORDANCE WITH AASHTO MP 9-06, LATEST REVISION.
2. FILTER SOCKS SHALL BE 12 INCHES IN DIAMETER.
3. FILTER SOCKS SHALL BE PLACED IN ACCORDANCE WITH THIS PLAN SET AND IN A ROW WITH ENDS OVERLAPPING 2 FEET (MIN.).
4. FILTER SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES, 10 FEET ON CENTER (MAX).
5. INSPECTION SHALL BE FREQUENT AND REPAIR AND/OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. FILTER SOCKS SHALL NOT BE MOVED TO OTHER LOCATIONS IN THE PROJECT ONCE PLACED.

3/12 TYPICAL FILTER SOCK
SCALE: NTS



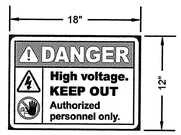
NOTES:
1. CONCRETE WASHOUT SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. PROVIDE 12 INCHES OF FREEBOARD.
2. PLASTIC LINING SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.
3. WASHOUT SHALL BE CLEANED OR REPLACED ONCE 75% FULL.
4. ACTUAL DIMENSIONS TO BE DETERMINED BY THE CONTRACTOR.

4/12 TYPICAL CONCRETE WASHOUT
SCALE: NTS

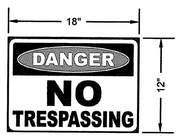


NOTES:
1. REFER TO DRAWING N-1 FOR TEMPORARY LAYDOWN AREA RESTORATION NOTES.

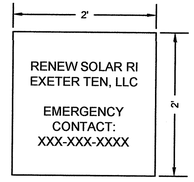
6/12 TYPICAL LAYDOWN AREA
SCALE: NTS



DANGER SIGN NOTES:
1. SIGN SHALL BE 0.040 IN. RUST FREE ALUMINUM.
2. SIGN SHALL COMPLY WITH ANSI Z535.
3. DANGER SIGN TO BE SPACED EVERY 300 FEET ALONG FENCE LINE.

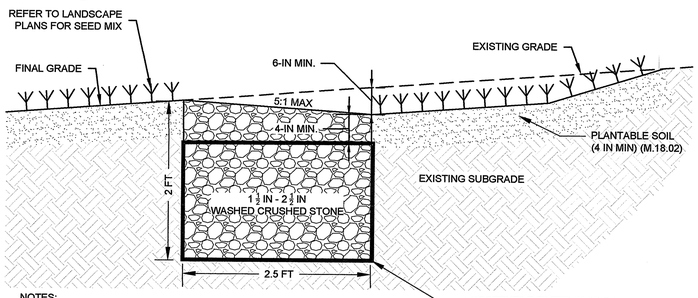


NO TRESPASSING SIGN NOTES:
1. SIGN SHALL BE 0.040 IN. RUST FREE ALUMINUM.
2. SIGN SHALL COMPLY WITH ANSI Z535.
3. NO TRESPASSING SIGN TO BE SPACED EVERY 100 FEET ALONG FENCE LINE.



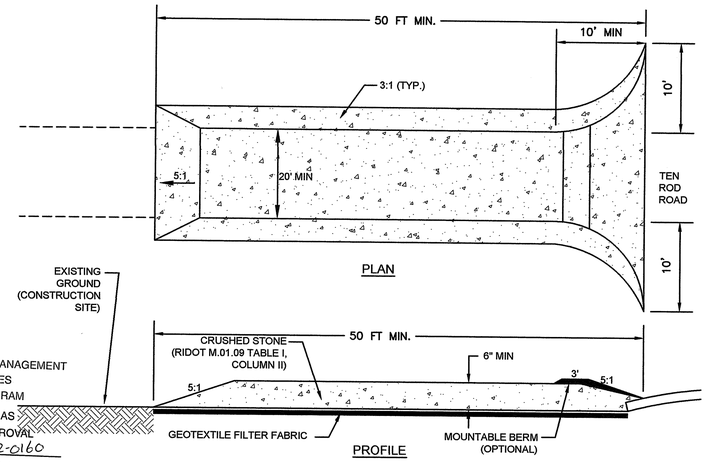
EMERGENCY CONTACT SIGN NOTES:
1. SIGN SHALL BE REFLECTIVE RUST FREE ALUMINUM.
2. EMERGENCY CONTACT TELEPHONE NUMBER TO BE PROVIDED BY OWNER.

5/12 TYPICAL SIGN DETAILS
SCALE: NTS



NOTES:
1. LEVEL STONE TRENCH SHALL RUN PARALLEL TO FINAL GRADE CONTOUR AT A CONSISTENT ELEVATION FOR A MINIMUM LENGTH OF 13 FEET OR AS NECESSARY TO EXTEND 18 INCHES BEYOND BOTH THE DRIP EDGE AND THE CENTER DRIP LINE.
2. GEOTEXTILE FABRIC: CLASS "C" APPARENT OPENING SIZE (ASTM D-4751).
3. STONE TRENCH LOCATIONS SHOWN ON DRAWINGS C-3 AND C-4. ADDITIONAL LEVEL STONE TRENCHES SHALL BE INSTALLED AS NECESSARY TO PREVENT DRIP EDGE EROSION.

7/12 TYPICAL LEVEL STONE TRENCH
SCALE: NTS



9/12 RIDEM PERMIT SIGN
SCALE: NTS

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OFFICE OF WATER RESOURCES
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DATED: OCT 24 2023 FILE #: 22-0160
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8/12 TYPICAL CONSTRUCTION ENTRANCE
SCALE: NTS

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EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

2023-08-15
15:12-04:0
0

No.	REVISION	DATE	DRAWN	DESIGN	CHK
2	RIDEM PERMIT MODIFICATION	08/15/2023	GJR	PRW	GJR
1	RESPONSE TO PEER REVIEW COMMENTS	4/14/2023	JKT	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD.
DETAILS

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D-1

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO. 12 OF 26

RI Environmental Management
AUG 17 2023
Office of Water Resources

DATE: Aug 15, 2023 - 10:28AM
FILENAME: C:\Waltham\Vdisk\V832-000 Nautilus Solar- Exeter Ten Solar- Design and Permitting\04 GRAPHICS\CAD\Drawings\RIBDM PD\V832-000 Exeter Ten Solar PD Details.dwg

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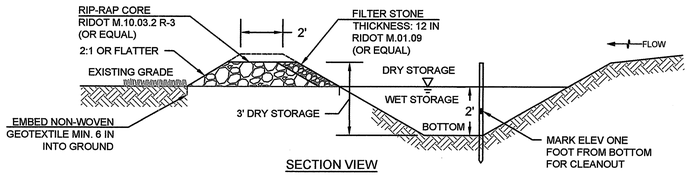
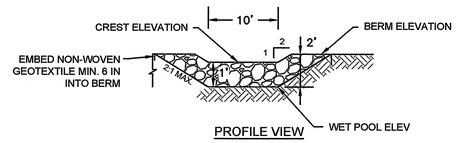
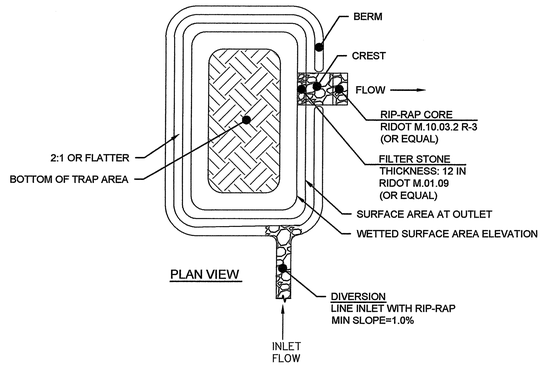


SECTION VIEW



PROFILE VIEW

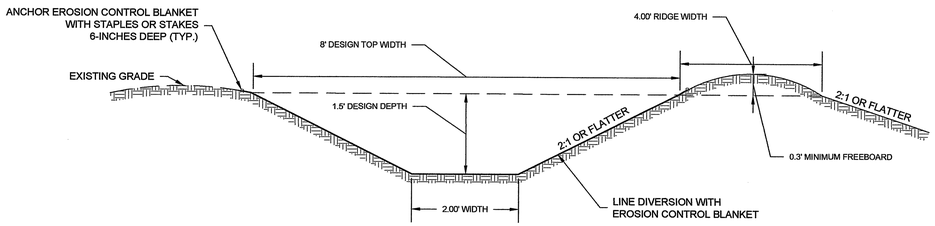


PLAN VIEW

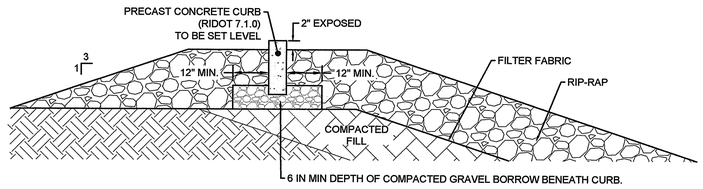
TEMPORARY SEDIMENT TRAPS SUMMARY TABLE

PARAMETER	TST-1	TST-2	TST-3	TST-4
DRAINAGE AREA, AC	3.60	1.42	2.86	1.52
WET VOLUME RQD, CF	6,533	2,579	5,193	2,754
DRY VOLUME RQD, CF	6,533	2,579	5,193	2,754
MINIMUM DEPTHS (MEASURED FROM BOTTOM OF SEDIMENT TRAP)				
SEDIMENT REMOVAL	1'	1'	1'	1'
BOTTOM OF FILTER STONE (WET STORAGE)	2'	2'	2'	2'
WEIR CREST (DRY STORAGE)	3'	3'	3'	3'
BERM	4'	4'	4'	4'
MINIMUM AREAS (SQUARE FEET)				
WET STORAGE SURFACE AREA (AW)	3,843	1,517	3,055	1,620
DRY STORAGE SURFACE AREA (AD)	9,223	3,641	7,332	3,888

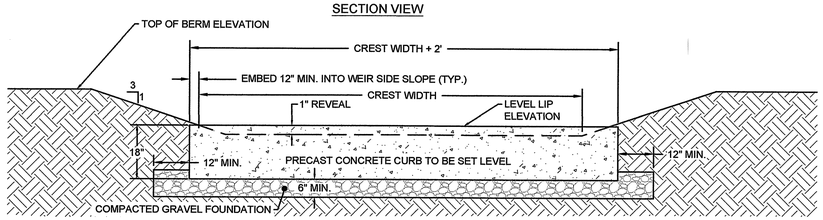
1/13 TYPICAL TEMPORARY SEDIMENT TRAPS
SCALE: NTS



2/13 TYPICAL TEMPORARY DIVERSION
SCALE: NTS



SECTION VIEW

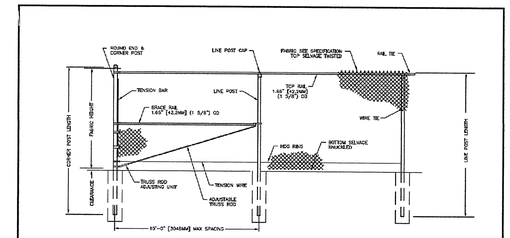


PROFILE VIEW

LOCATION	LEVEL LIP ELEVATION	CREST WIDTH (FT)	RIP RAP THICKNESS (IN)	RIP RAP GRADATION
BASIN 1	182.50	15	12	R-3
BASIN 2	175.50	20	12	R-3
BASIN 3	179.25	15	12	R-3
BASIN 4	174.50	10	12	R-3

NOTES:
1. CONCRETE CURB SHALL BE SET LEVEL ON A COMPACTED GRAVEL BORROW SUBBASE BEDDING
2. CURB JOINTS SHALL BE SEALED WITH NON-SHRINK GROUT TO PROVIDE A CONTINUOUS FLAT TOP SURFACE.

4/13 TYPICAL EMERGENCY SPILLWAY
SCALE: NTS



TYPICAL FENCE ELEVATION / SECTION

TOP RAIL / TRUSSED BRACE RAIL
BOTTOM TENSION WIRE

NOTES:
1. DESIGN AND SPECIFICATION SUBJECT TO CHANGE.
2. FOOTING AND POSTS AS REQUIRED BY SITE CONDITIONS & CODES.

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CHAIN LINK
TYPICAL FENCE ELEVATION / SECTION
BY: FJR 05.19.05 | SCALE: NTS | DWG #: CL10
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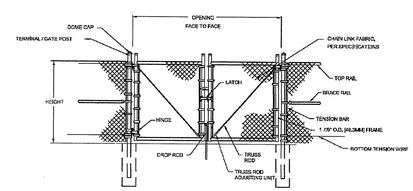
NOTES:
1. FINAL FENCE DETAIL TO BE SELECTED BY OWNER.
2. INSTALL FENCE PER MANUFACTURER INSTRUCTIONS.
3. FENCE POSTS TO BE PILE DRIVEN EXCEPT AT CORNERS AND GATES WHICH SHALL BE SET IN CONCRETE.
4. FENCE HEIGHT SHALL BE 7 FEET.
5. PROVIDE 6-8 INCH CLEARANCE BENEATH THE FENCE ALONG AT LEAST ONE THIRD OF EACH SIDE OF THE FENCE.
6. INSTALL PVC OR HDPE PRIVACY SLATS WHERE INDICATED ON DRAWINGS L-1 AND L-2.

3/13 TYPICAL 7-FT CHAIN LINK FENCE
SCALE: NTS



TYPICAL DOUBLE SWING GATE ELEVATION / SECTION

TOP RAIL / TRUSSED BRACE RAIL
BOTTOM TENSION WIRE

NOTES:
DESIGN AND SPECIFICATION SUBJECT TO CHANGE
VERTICAL & HORIZONTAL MEMBERS MAXIMUM 8' O.C.
FOOTING AND POSTS AS REQUIRED BY SITE CONDITIONS & CODES

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CHAIN LINK
DOUBLE SWING GATE ELEVATION / SECTION
BY: ART 2.11.10 | SCALE: NTS | DWG #: CL12
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Nancy L. Freeman

NOTES:
1. FINAL GATE DETAIL TO BE SELECTED BY OWNER.
2. INSTALL GATE PER MANUFACTURER INSTRUCTIONS.
3. GATE POSTS SHALL BE SET IN CONCRETE.
4. FENCE HEIGHT SHALL BE 7 FEET, GATE OPENING WIDTH PER PLAN.

5/13 TYPICAL VEHICLE GATE
SCALE: NTS

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No. 8551
REGISTERED
PROFESSIONAL ENGINEER
CIVIL

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No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	TOWN FINAL PLAN	08/15/2023	GJR	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD.
DETAILS

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D-2

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 13 OF 26

RI Environmental Management
AUG 17 2023
Office of Water Resources

DATE: Aug 15, 2023 - 1:42PM
FILENAME: C:\Users\JGrzybek\Local\Temp\AcPublish_23908\NS32~000 Exeter Ten Solar PD Details.dwg

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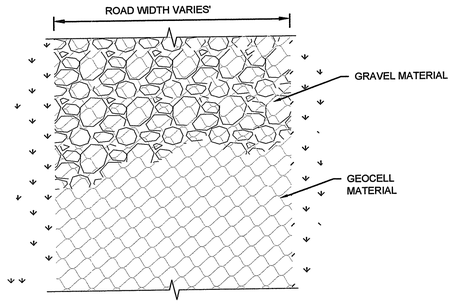
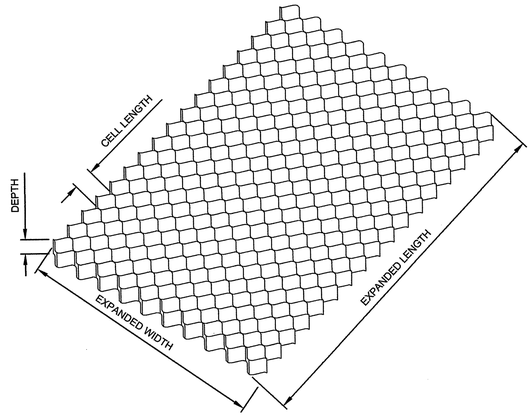
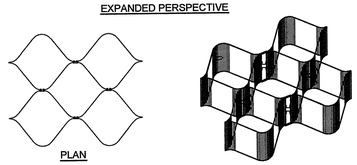


PLAN VIEW

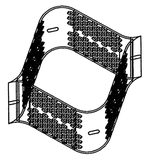


EXPANDED PERSPECTIVE

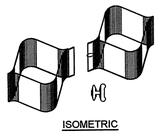


PLAN

ISOMETRIC



PERFORATED STRIP WITH I-SLOT



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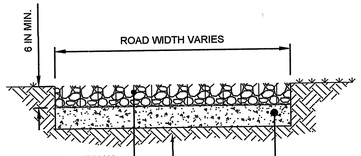


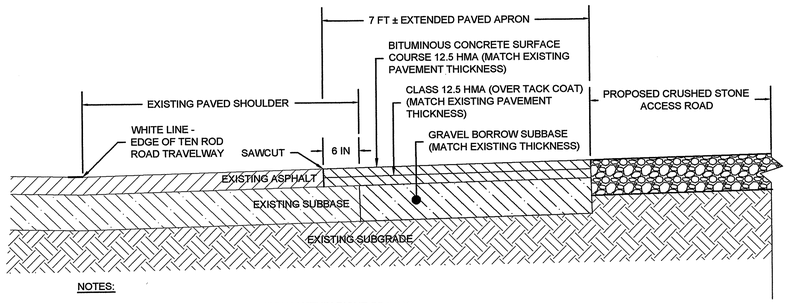
CELLULAR CONFINEMENT SYSTEM - GEOCELL OR APPROVED EQUAL

NOTES:

1. GEOCELL FILL MATERIAL SHALL CONSIST OF CLEAN, WASHED, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF RIDOT M.01.09, TABLE I, COLUMN II. CRUSHED STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. CRUSHED STONE SURFACE MATERIAL SHALL NOT BE COMPACTED.
2. GEOCELL REINFORCEMENT IS TO BE INSTALLED FROM STATION 2+35 TO END OF ROAD, REFER TO DRAWING NUMBERS C-1 AND P-1 FOR LOCATIONS.

1/14 TYPICAL REINFORCED ACCESS ROAD

SCALE: NTS



NOTES:

1. MATCH EXISTING DRAINAGE PATTERNS WITHIN RIGHT OF WAY.
2. SAW CUT EXISTING PAVEMENT 6 INCHES FROM EDGE OF PAVEMENT. TACK COAT FACE BEFORE PAVING.

2/14 TYPICAL PAVED APRON

SCALE: NTS

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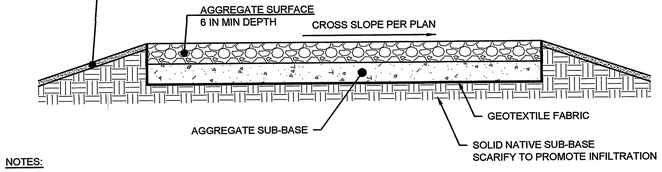

NOTES:

1. EXISTING PLANTABLE SOIL SHALL BE REMOVED UNTIL A SOLID NATIVE SUB-BASE HAS BEEN REACHED.
2. A GEOTEXTILE FABRIC SHALL BE INSTALLED ON TOP OF THE SOLID NATIVE SUB-BASE BEFORE THE AGGREGATE SUB-BASE IS INSTALLED.
3. THE AGGREGATE SURFACE SHALL BE A MINIMUM OF 6 INCHES IN DEPTH AND CONSTRUCTED COMPLETELY OUT OF WASHED ANGULAR CRUSHED STONE OR WASHED CRUSHED GRAVEL MEETING THE GRADATION OF RIDOT M.01.09 TABLE I, COLUMN II.
4. THE AGGREGATE SUB-BASE SHALL BE A MINIMUM OF 12 INCHES IN DEPTH AND CONSTRUCTED COMPLETELY OUT OF ANGULAR GRAVEL BORROW MEETING THE GRADATION OF RIDOT M.01.09 TABLE I, COLUMN I, TYPE IA .
5. AGGREGATE COMPACTION SHALL BE A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY COMPACTED IN 6 INCH LIFTS.
6. DETAIL INCORPORATES GRAVEL ACCESS ROAD DESIGN RECOMMENDATIONS INCLUDED IN THE "GEOTECHNICAL ENGINEERING REPORT" PREPARED BY TERRACON CONSULTANTS, INC., DATED JULY 5, 2018.
7. EROSION AND RILLING SHALL BE MITIGATED BY THE CONTRACTOR. WASHED CRUSHED STONE SHALL BE RE-GRADED AS NECESSARY TO MAINTAIN ITS PERVIOUS CHARACTERISTICS IF PONDING IS OBSERVED AFTER PRECIPITATION EVENTS OF 1.2 INCHES OR GREATER OVER A 24-HOUR PERIOD. PERIODIC REJUVENATION OF THE WASHED CRUSHED STONE SURFACE BY REMOVAL OF FINE SEDIMENTS, REPLENISHMENT OF THE AGGREGATE SURFACE, AND SURFACE SCARIFICATION SHALL BE COMPLETED AS NECESSARY.

3/14 TYPICAL ACCESS ROAD

SCALE: NTS

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PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2023-08-15 15:13-04:00

No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	TOWN FINAL PLAN	08/15/2023	GJR	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD. DETAILS

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D-3

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 14 OF 26

Environmental Management
AUG 17 2023
Office of Water Resources

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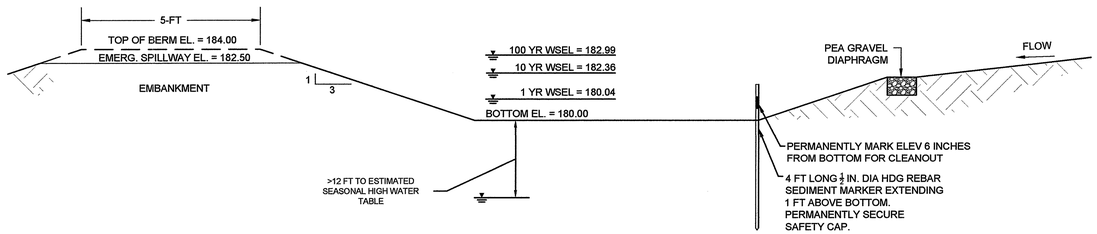
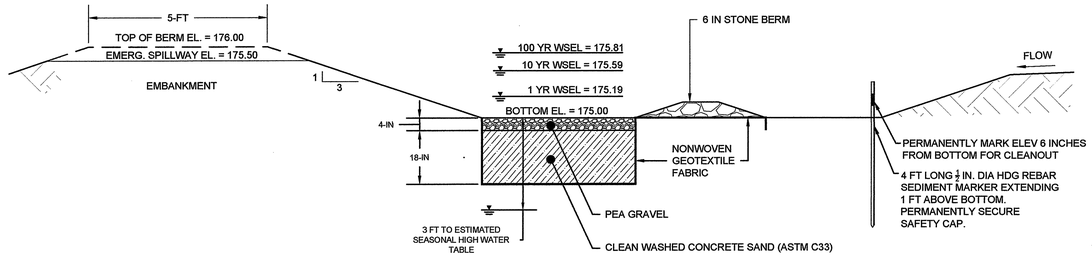
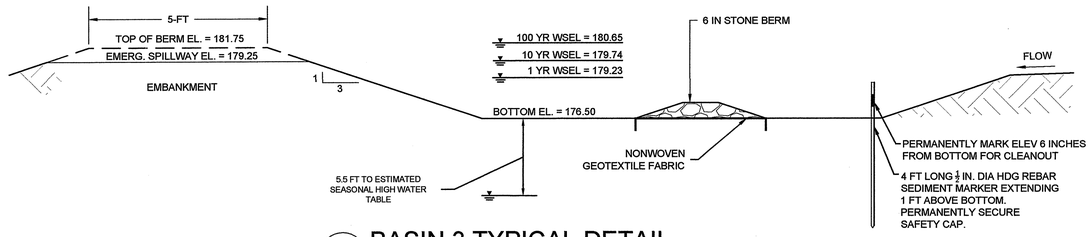
DATE: Aug 15, 2023 - 10:28AM
FILENAME: C:\Waltham\Local\VA52--000 Nautilus Solar-- Exeter Ten Solar-- Design and Permitting\04 GRAPHICS\CAD\Drawings\V852d P01\VA52--000 Exeter Ten Solar P0 D4of6.dwg



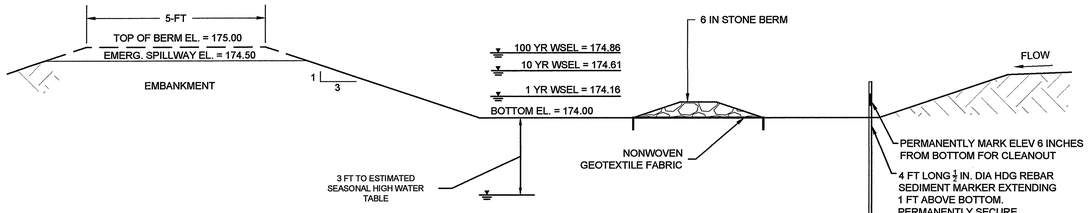
1/15 BASIN 1 TYPICAL DETAIL
SCALE: NTS



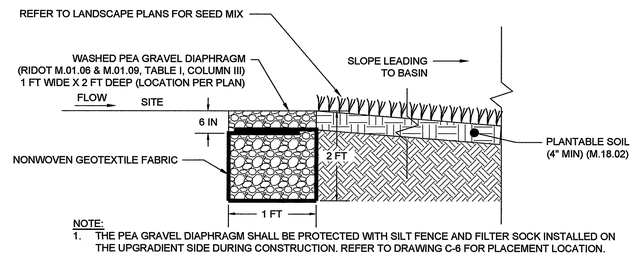
2/15 BASIN 2 TYPICAL DETAIL
SCALE: NTS



3/15 BASIN 3 TYPICAL DETAIL
SCALE: NTS

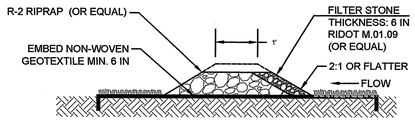


4/15 BASIN 4 TYPICAL DETAIL
SCALE: NTS

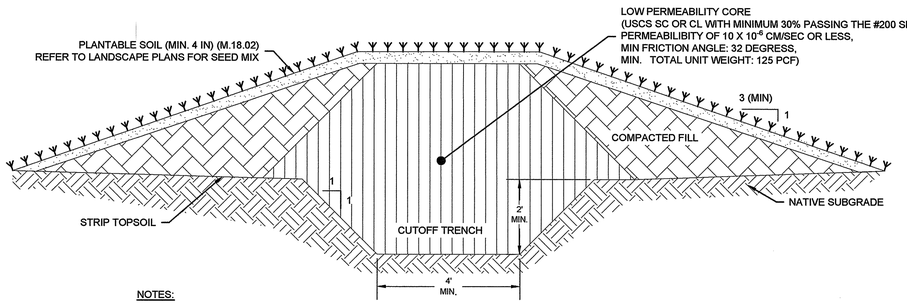


NOTE:
1. THE PEA GRAVEL DIAPHRAGM SHALL BE PROTECTED WITH SILT FENCE AND FILTER SOCK INSTALLED ON THE UPGRADIENT SIDE DURING CONSTRUCTION. REFER TO DRAWING C-6 FOR PLACEMENT LOCATION.

5/15 TYPICAL PEA GRAVEL DIAPHRAGM
SCALE: NTS



6/15 TYPICAL STONE BERM
SCALE: NTS



NOTES:
1. SEE STORMWATER BASIN NOTES ON DRAWING N-2
2. EMBANKMENT SHALL BE STABILIZED WITH A MINIMUM OF 4 INCHES OF PLANTABLE SOIL AND SEED OR FILTER FABRIC AND RIP-RAP AS SHOWN.
3. LOW PERMEABILITY CORE NOT REQUIRED FOR BASIN 2 OR BASIN 4.

7/15 TYPICAL BASIN EMBANKMENT CROSS SECTION
SCALE: NTS

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 24 2023 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

TRC
404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
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RENEW SOLAR RI EXETER TEN, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2023-08-15 15:13-04:00

No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	TOWN FINAL PLAN	08/15/2023	GJR	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD. DETAILS

FOR PERMITTING ONLY

D-4

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 15 OF 26

Received
AUG 17 2023
DEM-OWR

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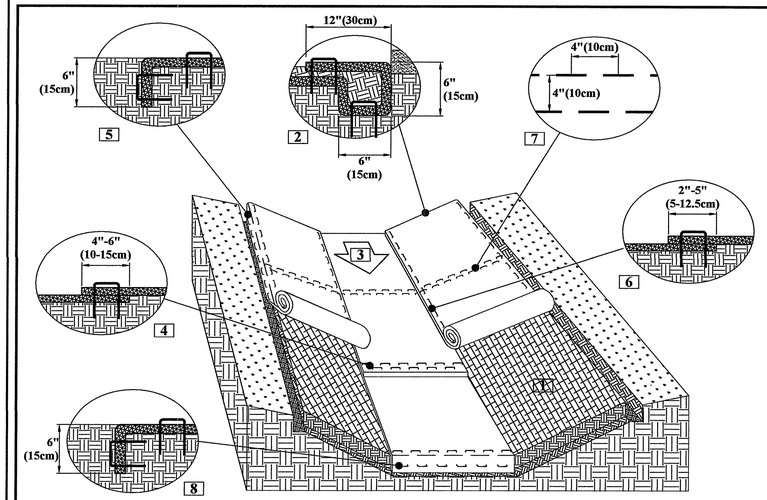
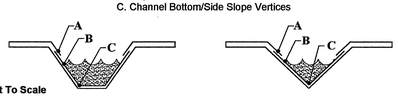
DATE: Aug 15, 2023 - 10:28AM
FILENAME: G:\Waltham\Jobs\V632~000 Nautilus Solar~ Exeter Ten Solar~ Design and Permitting\04 GRAPHICS\CAD\Drawings\WIDEM PD\V632~000 Exeter Ten Solar PD Details.dwg



CRITICAL POINTS
A. Overlaps and Seams
B. Projected Water Line
C. Channel Bottom/Side Slope Vertices



Drawing Not To Scale

NOTES:
*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

**In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECP's.

CHANNEL INSTALLATION DETAIL

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the channel by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs.
3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. Place consecutive RECPs end-over-end (Shingle style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent RECPs must be overlapped approximately 2"-5" (5-12.5cm) (Depending on RECPs type) and stapled.
7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 -12m) intervals. Use a double row of staples staggered 4"(10cm) apart and 4"(10cm) on center over entire width of the channel.
8. The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12" (30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.

NORTH AMERICAN GREEN
5401 St. Wendel - Cynthiana Rd. Poseyville, IN 47633
PH: 800-722-2040
www.nagreen.com

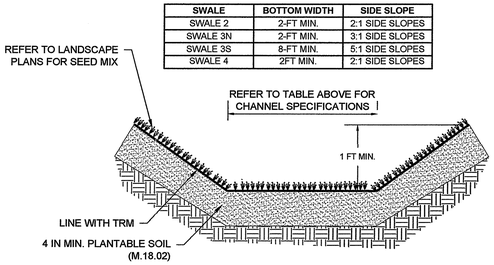
Disclaimer:
The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

Drawn on: 5-4-17

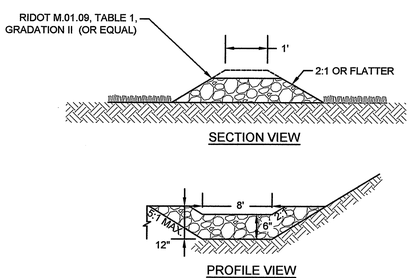
NOTE:
PERMANENT TRM SHALL BE NORTH AMERICAN GREEN ERONET P300 OR APPROVED EQUAL.

1/16 TYPICAL TURF REINFORCEMENT MAT (TRM)
SCALE: NTS

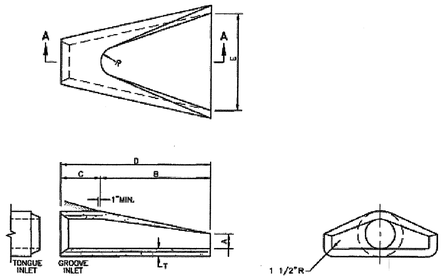
SWALE	BOTTOM WIDTH	SIDE SLOPE
SWALE 2	2-FT MIN.	2:1 SIDE SLOPES
SWALE 3N	2-FT MIN.	3:1 SIDE SLOPES
SWALE 3S	8-FT MIN.	5:1 SIDE SLOPES
SWALE 4	2FT MIN.	2:1 SIDE SLOPES



2/16 TYPICAL GRASS CHANNEL
SCALE: NTS



3/16 TYPICAL STONE CHECK DAM
SCALE: NTS



SECTION A–A

END ELEVATION

DIMENSIONS								REINFORCEMENT
DIA.	A	B	C	D	E	R	T	ONE LAYER REINFORCEMENT IN CENTER OF WALL: MIN. AREA OF EACH WAY (SQ. IN./FT.)
1'-0"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	9"	2"	0.048
1'-3"	6"	2'-3"	3'-10"	6'-1"	2'-6"	11"	2 1/4"	0.054
1'-6"	9"	2'-3"	3'-10"	6'-1"	3'-0"	13"	2 1/2"	0.060
2'-0"	9 1/2"	3'-7 1/2"	2'-8"	6'-1 1/2"	4'-0"	1'-2"	3"	0.072
2'-6"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	1'-3"	3 1/2"	0.084
3'-0"	1'-3"	5'-3"	2'-10 3/4"	6'-1 3/4"	6'-0"	1'-5"	4"	0.096
3'-6"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	1'-10"	4 1/2"	0.108
4'-0"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	1'-10"	5"	0.120
4'-6"	2'-3"	5'-5"	2'-11"	8'-4"	7'-6"	2'-0"	5 1/2"	0.132
5'-0"	2'-6"	5'-0"	3'-3"	8'-3"	8'-0"	2'-0"	6"	0.144

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

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

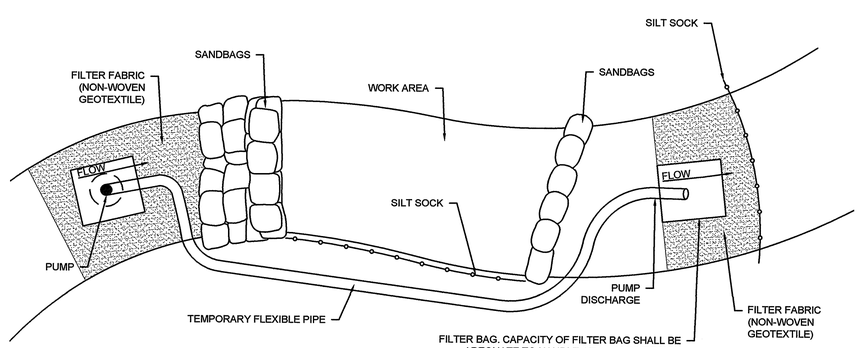
REVISIONS		
NO.	BY	DATE

PRECAST CONCRETE FLARED END SECTION

JUNE 15, 1998
SIGE DATE

R.I. STANDARD 2.3.0

4/16 TYPICAL CONCRETE FLARED END
SCALE: NTS



NOTES:

1. INSTALL TEMPORARY SANDBAGS AND SILT SOCK OR EQUIVALENT TO MAINTAIN A DRY WORK AREA FOR CONSTRUCTION ACTIVITIES AND TO PREVENT SEDIMENTATION.
2. SANDBAGS TO BE LOCATED UPSTREAM OF THE WORK AREA AND DOWNSTREAM OF THE WORK AREA. A TEMPORARY FLEXIBLE PIPE SHALL CONVEY FLOW AROUND THE WORK AREA.
3. SIZE AND PROVIDE A TEMPORARY FLEXIBLE PIPE TO BE WITH ADEQUATE CAPACITY TO MAINTAIN BASE STREAM FLOW.
4. DIVERSION PUMP AND DISCHARGE LINE SIZE AND TYPE TO BE DETERMINED BY CONTRACTOR BASED ON DEWATER OPERATIONS.

5/16 TYPICAL CULVERT DIVERSION
SCALE: NTS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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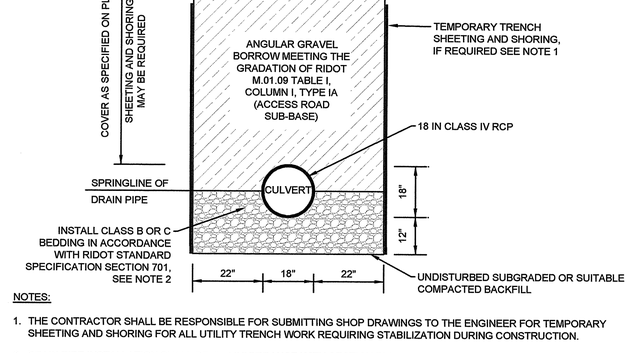

NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS TO THE ENGINEER FOR TEMPORARY SHEETING AND SHORING FOR ALL UTILITY TRENCH WORK REQUIRING STABILIZATION DURING CONSTRUCTION.
2. DRAIN PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 701 - CULVERTS AND STORM DRAINS AND SECTION 205 - TRENCH EXCAVATION OF THE MOST RECENT RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

6/16 TYPICAL CULVERT REPLACEMENT
SCALE: NTS

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

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No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2023-08-15 15:14-04:00

No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	TOWN FINAL PLAN	08/15/2023	GJR	JMG	JMG

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

WETLANDS APP. 22-0160 PERMIT MOD. DETAILS

FOR PERMITTING ONLY

D-5

PROJECT NO: 016226
DATE OF ISSUE: 5/2/2022
SHEET NO: 16 OF 26

RI Environmental Management
AUG 17 2023
Office of Water Resources

DATE: Aug 15, 2023 - 10:30AM
FILE: N:\Engineering\Solar\016226-000 Nautilus Solar– Exeter Ten Solar– Design and Permitting\04 GRAPHICS\CAD\Drawings\ROSH P(V)533–000 Exeter Ten Solar 70 Details.dwg

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LEGEND

PROPOSED LANDSCAPING FEATURES

- ERNST NATIVE/NATURALIZED SOLAR FARM SEED MIX (ERNMX-186-1) OR APPROVED EQUAL
- NEW ENGLAND WETLAND PLANTS, INC. (NEWP) EROSION CONTROL / RESTORATION MIX FOR DRY SITES OR APPROVED EQUAL
- NEW ENGLAND WETLAND PLANTS, INC. (NEWP) RESTORATION MIX FOR DETENTION BASINS OR APPROVED EQUAL
- MAINTAIN/SUPPLEMENT EXISTING VEGETATION
- VISUAL MITIGATION TYPE A: VM-1, VM-2
- VISUAL MITIGATION TYPE B: VM-3

N

LANDSCAPING NOTES:

1. SEE LANDSCAPE NOTES & DETAILS SHEETS L-3 & L-4 FOR GENERAL LANDSCAPE AND SEEDING NOTES; GRASS SEED MIXES; PLANTING DETAILS, TEMPLATES, AND SCHEDULES; AND COORDINATES OF VEGETATIVE BUFFER / SCREENING MITIGATION TABLES.
2. SEE SHEETS C-3 THROUGH C-6 FOR THE OVERALL SITE PLAN AND LAYOUT.

TEN ROD ROAD

DECORATIVE ACCESS GATE

START: REBUILT STONE WALL
- CONTINUE WALL ALONG LOD
- 15-FOOT LONG SECTIONS
- 5-FOOT WIDE WILDLIFE OPENING
- TOTAL LENGTH 100 LINEAR FEET (MIN. OF 5 OPENINGS)

50' PER WETLAND
1 VD
2 CF
1 PM
EVERGREEN TREE PLANTING DETAIL (TYP.)
1 PM
2 VD
1 AA
LANDSCAPING AND REBUILT STONE WALL SUBJECT TO APPROVAL BY RIDEM AND RI ENERGY.
10 CT
NATIVE LANDSCAPE RESTORATION AREA (1,100± SF)
1 AA
END: REBUILT STONE WALL

STABILIZE DISTURBED AREAS WITH NEW ENGLAND WETLAND PLANTS, INC. EROSION CONTROL/RESTORATION MIX FOR DRY SITES (OR APPROVED EQUAL).

SUPPLEMENT EXISTING WOODS AS NEEDED TO GENERALLY BUFFER VIEW OF SOLAR PROJECT FROM OFF-SITE LOCATIONS. ALL MATURE HEALTHY VEGETATION IN THIS AREA SHALL REMAIN. SELECT UNHEALTHY / UNDESIRABLE VEGETATION SHALL BE THINNED / REMOVED TO FACILITATE PLANTING OF ADDITIONAL VEGETATION. A MIX OF NATIVE SHRUB SPECIES SHALL BE UTILIZED WITH EVERGREEN TREE SPECIES WHERE APPROPRIATE IN THIS AREA TO SUPPLEMENT THE EXISTING BUFFER. PROPOSED VEGETATION QUANTITIES AND SPECIES TYPES PLANTED IN THESE AREAS WILL BE SELECTIVE IN NATURE AND BASED ON DISCRETIONARY DECISIONS THAT ARE MADE IN THE FIELD DURING CONSTRUCTION. WIDTH OF BUFFER/SCREEN WILL VARY WITHIN HATCHED AREA BUT WILL BE NO LESS THAN 30 FEET.

MAP 37 - BLOCK 1 - LOT 7
N/F LANDS OF
MATTHEW B. ARMSTRONG
BK. 534, PG. 303
#554 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 6
N/F LANDS OF
BRIAN T. MAUHS
BK. 527, PG. 56
#544 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

MAP 37 - BLOCK 5 - LOT 3
N/F LANDS OF
DAVID E. PAYETTE &
JENNIFER W. PAYETTE
BK. 394, PG. 311
#5 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 4
N/F LANDS OF
MARVIN M. PELSER, JR. &
SHARON A. PELSER
(PER TOWN GIS)
#17 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 2
N/F LANDS OF
PATRICIA HOWLAND &
MATTHEW [illegible]
BK. 39[illegible]
#29 LOCUST [illegible]

NOTE: 8 TO 10-FOOT TALL EVERGREENS

VM1
E:310032.4360
N:180706.5652

VM1
E:309945.9416
N:180709.4906

VM1
E:309932.3037
N:180722.5481

VM1 TYPE A

VM2
E:310028.1221
N:180660.3697

VM2 TYPE A

VM2
E:310263.7957
N:180660.3697

VM2
E:310308.2887
N:180666.8034

VM2
E:310312.3950
N:180667.3972

VM3
E:310289.4368
N:180651.4522

VM3
E:310338.5247
N:180312.4376

VM3 TYPE B

START: REBUILT STONE WALL
- CONTINUE WALL ALONG LIMITS OF DISTURBANCE (LOD)
- TOTAL LENGTH 550 LINEAR FEET

CHAIN LINK FENCE WITH PRIVACY SLATS

END: REBUILT STONE WALL

100' R.B. WETLAND
50' PER WETLAND
50' SOIL DIST. SETBACK
100' RIVERBANK WETLAND
80' SIDE SETBACK
100' FRONT SETBACK
WETLAND 1
100' SOIL DIST. SETBACK
50' PER WETLAND

NEW ENGLAND WETLAND PLANTS, INC. RESTORATION MIX FOR DETENTION BASINS (OR APPROVED EQUAL).

SOLAR ARRAY
7.3± ACRES
3.7± MW DC
6,864± MODULES

ERNST NATIVE/NATURALIZED SOLAR FARM SEED MIX (ERNMX-186-1) (OR APPROVED EQUAL).

MATCH LINE DRAWING NO. L-2

MATCH LINE DRAWING NO. L-2

FOREST CONDITION ASSESSMENT SUMMARY

ECHO WOODS FORESTRY VISITED THE PROJECT SITE IN EXETER ON DECEMBER 11th TO ASSESS THE FOREST CONDITIONS OF THE EASTERN PORTION OF THE PROPERTY. SEE EXECUTIVE SUMMARY LETTER BY ECHO WOODS DATED, DECEMBER 16th 2018 FOR ADDITIONAL INFORMATION REGARDING THE HISTORY OF THE SITE, OBSERVATIONS, AND RECOMMENDATIONS.

" THE RED PINES GROWING HERE MAKE UP 11 PERCENT OF THE BASAL AREA. WHITE PINE IS THE MOST COMMON TREE SPECIES, MAKING UP 64 PERCENT OF THE BASAL AREA, THIS INCLUDES A FEW LARGE TREES AND MANY SMALLER TREES THAT HAVE BECOME ESTABLISHED AS THE RED PINES DIED. THERE ARE ALSO NORWAY SPRUCE TREES HERE, LIKELY PLANTED AT THE SAME TIME AS THE RED PINE - THESE ARE GROWING WELL, BUT HAVEN'T ACHIEVED THE SIZE OF THE LARGEST WHITE PINES. THE BALANCE OF THE FOREST IS OAK TREES, MOST OF WHICH ARE GROWING ALONG THE EDGES OF THE STAND. "

SITE AND FOREST HEALTH OBSERVATIONS:

- 40 STANDING DEAD TREES PER ACRE AND MANY MORE FALLEN TREES ON THE FOREST FLOOR
- MOST COMMON TREES FOUND WERE WHITE PINE - 64%, AND RED PINE - 11 % (75% PINE)
- MOST TREES WERE 4 TO 6 INCH DIAMETER AT BREAST HEIGHT (DBH)
- AESTHETIC VALUES OF THE SITE ARE LOW WITH MANY STANDING DEAD TREES AND TREE STEMS LITTERING THE FOREST FLOOR

SITE PHOTOGRAPH

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Stacey L. Freeman

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396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

REGISTERED LANDSCAPE ARCHITECT
MATTHEW WILLIAM TSUKAMA
No. 705
Not Valid Without Signature

0 50' 100'
SCALE: 1" = 50'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GMT | DESIGNED BY: GMT | CHECKED BY: JMG

FINAL PLAN
LANDSCAPE PLAN NORTH

FOR PERMITTING ONLY

DRAWING NO:
L-1

PROJECT NO: N532-000
DATE OF ISSUE: 2/23/2023
SHEET NO: 17 OF 26

RI Department of Environmental Management
AUG 17 2023
Office of Water Resources

DATE: Feb 23, 2023 - 4:45PM
FILENAME: G:\Waltham\Jobs\N532-000 Nautilus Solar- Exeter Ten Solar- Design and Permitting\04 ENGINEER\CAD\Drawings\Final Plan\N532-000 Exeter Ten Solar Final Landscape.dwg

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MATCH LINE DRAWING NO. L-1

MATCH LINE DRAWING NO. L-1

N

SOLAR ARRAY
7.3± ACRES
3.7± MW DC
6,864± MODULES

WETLAND 1

SPECIAL AQUATIC SITE (WETLAND 2)

100' SOIL DIST. SETBACK

200' RIVERBANK WETLAND

50' PERIMETER WETLAND

100' SOIL DIST SETBACK

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

MAP 37 - BLOCK 5 - LOT 6
N/F LANDS OF
PAUL R. STORTI &
CHARLENE M. STORTI
BK. 54, PG. 522
#35 LOCUST VALLEY ROAD

BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 14
N/F LANDS OF
CRAIG ALAN SWANSON
BK. 399, PG. 237
#59 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 15
N/F LANDS OF
THERESA C. DONOVAN &
WILLIAM G. DONOVAN
BK. 106, PG. 324
#75 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 15

VM3
TYPE B

CHAIN LINK FENCE
WITH PRIVACY SLATS

VM3
E:310639.8390
N:180078.1602

VM3
E:310623.7886
N:179959.0522

VM3
E:310569.5179
N:179976.9164

VM3
TYPE B

VM3
E:310340.1592
N:179609.5402

VM3
E:310327.7607
N:179589.6809

VM3
E:310323.6279
N:179583.0611

ERNST NATIVE/NATURALIZED SOLAR FARM SEED MIX
(ERNMX-186-1) (OR APPROVED EQUAL).

NEW ENGLAND WETLAND PLANTS, INC.
RESTORATION MIX FOR DETENTION BASINS
(OR APPROVED EQUAL).

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AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

REGISTERED LANDSCAPE ARCHITECT
MATTHEW WILLIAM TSUCHIDA
No. 705
Not Valid Without Signature

0 50' 100'
SCALE: 1" = 50'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GMT | DESIGNED BY: GMT | CHECKED BY: JMG

FINAL PLAN
LANDSCAPE PLAN SOUTH

FOR PERMITTING ONLY

DRAWING NO:
L-2

PROJECT NO: N532-000
DATE OF ISSUE: 2/23/2023
SHEET NO: 18 OF 20 26

RI Environmental Management
AUG 17 2023
Office of Water Resources

DATE: Feb 23, 2023 – 4:45PM
FILENAME: G:\Waltham\Vol4\N532-000 NextEra Solar– Exeter Ten Solar– Design and Permitting\04 GRAPHICS\CAD\Drawings\Final Plan\N532–000 Exeter Ten Solar Final Landscape.dwg

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GENERAL LANDSCAPE AND SEEDING NOTES

1. THE LANDSCAPE PLAN AND DETAILS ARE FOR LANDSCAPING INFORMATION ONLY. PLEASE REFER TO THE SITE LAYOUT PLAN, GRADING PLAN AND/OR UTILITIES PLAN FOR ALL OTHER INFORMATION.

2. THE CONTRACTOR SHALL MONITOR AND GUARANTEE THAT ALL PLANTS, TREES, AND SHRUBS SHALL BE HEALTHY AND FREE OF DISEASE FOR A PERIOD OF (1) ONE YEAR AFTER SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER. CONTRACTOR SHALL REPLACE ANY DEAD OR UNHEALTHY PLANTS AT CONTRACTOR'S EXPENSE. FINAL ACCEPTANCE SHALL BE MADE IF ALL PLANTS MEET THE GUARANTEE REQUIREMENTS INCLUDING MAINTENANCE. MAINTENANCE RESPONSIBILITIES INCLUDE INVASIVE SPECIES MONITORING, REMOVAL, AND SUPPLEMENTATION. MONITORING OF THE PROJECT SITE SHALL OCCUR IN THE SPRING AND THE FALL TO DETERMINE THE PRESENCE OF INVASIVE SPECIES. SHOULD ANY INVASIVE SPECIES BE IDENTIFIED WITHIN THE PROJECT SITE, THE INVASIVE SPECIES SHALL BE REMOVED ACCORDING TO METHODS MOST LIKELY TO BE EFFECTIVE IN CONTROLLING THAT SPECIES AND SUPPLEMENTING ITS REPLACEMENT WITH APPROPRIATE VEGETATION AND SEED MIX IDENTIFIED (AND APPROVED) ON THIS PLAN AND/OR AN APPROVED EQUAL. ADDITIONAL MAINTENANCE RESPONSIBILITIES INCLUDE: APPROVED CULTIVATING, SPRAYING, WEEDING, WATERING, TIGHTENING OF TREE STRAP GUYS, PRUNING, FERTILIZING, MULCHING, AND ANY OTHER OPERATIONS NECESSARY TO MAINTAIN PLANT VIABILITY. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND CONTINUE UNTIL 90 DAYS AFTER FINAL ACCEPTANCE.

3. THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, APPROVED SEEDING MIX, AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWING(S) AND LISTED IN THE PLANT SCHEDULE(S) AND/OR SEEDING TABLE(S). IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT SCHEDULE AND/OR SEEDING TABLE AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER SHALL APPLY. ALL PLANTS SHALL BE ACCLIMATED BY THE SUPPLY NURSERY TO THE LOCAL HARDINESS ZONE AND BE CERTIFIED THAT THE PLANTING MATERIAL HAS BEEN GROWN FOR A MINIMUM OF (2) TWO YEARS AT THE SOURCE AND OBTAINED WITHIN 200 MILES OF PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT.

4. THE LOCATIONS FOR PLANT MATERIAL ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO SLOPE, VEGETATION, AND SITE FACTORS SUCH AS THE LOCATION OF ROCK OUTCROPS. PRIOR TO PLANTING THE CONTRACTOR SHALL ACCURATELY STAKE OUT THE LOCATIONS FOR ALL PLANTS. THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT SHALL APPROVE THE FIELD LOCATIONS OR ADJUSTMENTS OF THE PLANT MATERIAL.

5. ALL SHRUB MASSING SHALL BE MULCHED TO A DEPTH OF 2" AND SHREDDED HARDWOOD BARK MULCH SHALL BE USED FOR SHRUB MASSING AREAS.

6. NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE CONTRACTOR. STAKING THE LOCATION OF ALL TREES AND SHRUBS SHALL BE COMPLETED PRIOR TO PLANTING FOR APPROVAL BY THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT. STAKING OF THE INSTALLED TREE MUST BE COMPLETED THE SAME DAY AS IT IS INSTALLED. ALL TREES SHALL BE STAKED OR GUYED AS PER THE DETAIL. SEE LANDSCAPING PLAN(S) FOR PLANTING DETAILS.

7. COORDINATE PLANT MATERIAL LOCATIONS WITH SITE UTILITIES. SEE SITE LAYOUT, GRADING AND/OR UTILITY PLANS FOR STORM, SANITARY, GAS, ELECTRIC, TELEPHONE AND WATER LINES. UTILITY LOCATIONS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.

8. LANDSCAPE PLANTING PITS MUST BE FREE DRAINING. PAVEMENT, COMPACTED SUBGRADE, AND BLASTED ROCK SHALL BE REMOVED TO A DEPTH OF 2' OR TO A GREATER DEPTH IF REQUIRED BY PLANTING DETAILS OR SPECIFICATIONS. REPLACE SOIL WITH MODERATELY COMPACTED LOAM OR SANDY LOAM FREE FROM STONES AND RUBBISH 1" OR GREATER IN DIAMETER AND ANY OTHER MATERIAL. HARMFUL TO PLANT GROWTH AND DEVELOPMENT. PLANTING INSTALLATION SHALL BE AS DETAILED AND CONTAIN PLANTING MIX AS SPECIFIED UNLESS RECOMMENDED OTHERWISE BY SOIL ANALYSIS.

   PLANTING SOIL MIXTURE:
   2 PARTS PEAT MOSS
   5 PARTS TOPSOIL
   MYCORRHIZA INOCULANT - "TRANSPLANT 1-STEP" AS MANUFACTURED BY ROOTS, INC. OR APPROVED EQUAL. USE PER MANUFACTURER'S RECOMMENDATIONS FOR TREES AND SHRUBS. FERTILIZER/LIME APPLY AS RECOMMENDED BY SOIL ANALYSIS

- TREES, AND SHRUBS: TREES AND SHRUBS SHALL BE NURSERY GROWN UNLESS OTHERWISE NOTED AND HARDY UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCATION OF THE PROJECT. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL HABIT OF GROWTH. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE. THEY SHALL HAVE HEALTHY AND WELL-DEVELOPED ROOT SYSTEMS. ALL TREES SHALL HAVE STRAIGHT SINGLE TRUNKS WITH THEIR MAIN LEADER INTACT UNLESS OTHERWISE STATED. THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT SHALL ONLY PERMIT SUBSTITUTIONS UPON WRITTEN APPROVAL. THEIR SIZES SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE DRAWINGS. PLANTS LARGER THAN SPECIFIED ON THE DRAWINGS MAY BE USED IF APPROVED. THE USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. ALL TREES AND SHRUBS SHALL BE MULCHED IN ACCORDANCE WITH THE RESPECTIVE PLANTING DETAIL(S) PROVIDED IN THE LANDSCAPING PLAN.

- ALL PRUNING SHALL CONFORM TO THE TREE CARE INDUSTRY ASSOCIATION (TCIA) ANSI A300 (PART 1) - 2017 PRUNING STANDARDS. PRUNING STANDARDS SHALL RECOGNIZE BUT, ARE NOT LIMITED TO, THE FOLLOWING PRUNING OBJECTIVES: MANAGE RISK, MAINTAIN HEALTH, DEVELOP STRUCTURE, PROVIDE CLEARANCE, MANAGE SIZE OR SHAPE, IMPROVE AESTHETICS, MANAGE PRODUCTION OF FRUIT, FLOWERS, OR OTHER PRODUCTS, AND/OR MANAGE WILDLIFE HABITAT. DEVELOPING STRUCTURE SHALL IMPROVE BRANCH AND TRUNK ARCHITECTURE, PROMOTE OR SUBORDINATE CERTAIN LEADERS, STEMS, OR BRANCHES; PROMOTE DESIRABLE BRANCH SPACING; PROMOTE OR DISCOURAGE GROWTH IN A PARTICULAR DIRECTION (DIRECTIONAL PRUNING); MINIMIZE FUTURE INTERFERENCE WITH TRAFFIC, LINES OF SIGHT, INFRASTRUCTURE, OR OTHER PLANTS; RESTORE PLANTS FOLLOWING DAMAGE; AND/OR REJUVENATE SHRUBS. PROVIDING CLEARANCE SHALL ENSURE SAFE AND RELIABLE UTILITY SERVICES; MINIMIZE CURRENT INTERFERENCE WITH TRAFFIC, LINES OF SITE, INFRASTRUCTURE, OR OTHER PLANTS; RAISE CROWN(S) FOR MOVEMENT OF TRAFFIC OR LIGHT PENETRATION; ENSURE LINES OF SIGHT OR DESIRED VIEWS; PROVIDE ACCESS TO SITES, BUILDINGS, OR OTHER STRUCTURES; AND/OR COMPLY WITH REGULATIONS.

- TOPSOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4 INCHES. CONTRACTOR SHALL SUBMIT TOPSOIL TO A CERTIFIED TESTING LABORATORY TO DETERMINE PH, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. THE CONTRACTOR SHALL SUBMIT THE TEST RESULTS FROM REGIONAL EXTENSION OFFICE OF USDA TO THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR GOOD PLANT GROWTH AND PROPER SOIL ACIDITY RECOMMENDED FROM THE TOPSOIL TEST.

- NO PHOSPHOROUS SHALL BE USED AT PLANTING TIME UNLESS SOIL TESTING HAS BEEN COMPLETED AND TESTED BY A HORTICULTURAL TESTING LAB AND SOIL TESTS SPECIFICALLY INDICATE A PHOSPHOROUS DEFICIENCY THAT IS HARMFUL, OR WILL PREVENT NEW LAWNS/GRASSES AND PLANTINGS FROM ESTABLISHING PROPERLY.

- IF SOIL TESTS INDICATE A PHOSPHOROUS DEFICIENCY THAT WILL IMPACT PLANT AND LAWN ESTABLISHMENT, PHOSPHOROUS SHALL BE APPLIED AT THE MINIMUM RECOMMENDED LEVEL PRESCRIBED IN THE SOIL TEST FOLLOWING ALL APPLICABLE STANDARDS, REQUIREMENTS, AND/OR REGULATIONS.

- ALL SLOPES GREATER THAN 3:1 RECEIVING A WILDFLOWER, WETLAND, AND/OR GRASS SEEDING MIXTURE SHALL BE COVERED WITH AN EROSION CONTROL BLANKET.

- ALL WILDFLOWERS AND GRASSES SOWED SHALL BE ALLOWED TO GROW TO THEIR NATURALLY OCCURRING HEIGHTS WHENEVER POSSIBLE. NATIVE WILDFLOWERS AND/OR GRASSES CAN BE MOWED/MAINTAINED (WITHIN ACCEPTABLE AREAS IDENTIFIED AND/OR APPROVED BY APPROPRIATE REGULATORY AGENCIES) AS OFTEN AS NEEDED TO KEEP THE VEGETATION AT A DESIRED AND/OR MANAGEABLE/MANICURED HEIGHT.

SEEDING

1. APPLY SEED AT RATE PER – SEED MIXTURES
2. PLANTING SEASON: SEED FROM MARCH 15 TO MAY 1, AND AUGUST 15 TO OCTOBER 1. TEMPORARY SEEDING CAN OCCUR OUTSIDE OF THE PLANTING SEASON IN ACCORDANCE WITH THE MIXTURES AND RATES SPECIFIED WITHIN THE APPROVED STORMWATER POLLUTION PREVENTION PLAN.
3. DO NOT SOW IMMEDIATELY FOLLOWING RAIN, WHEN GROUND IS TOO DRY, OR WHEN WINDS EXCEED 12 MPH.
4. APPLY WATER WITH FINE SPRAY IMMEDIATELY AFTER EACH AREA HAS BEEN MULCHED. SATURATE TO 4 INCHES OF SOIL.

HYDROSEEDING:

1. APPLY SEED AT RATES SPECIFIED ON SEED MIX TABLES. APPLICATION RATES FOR SLOPES GREATER THAN 3:1 RECEIVING A WILDFLOWER, AND/OR GRASS SEEDING MIXTURE MAY INCREASE PER SITE CONDITIONS, SEE MANUFACTURER'S RECOMMENDATIONS FOR STEEP SLOPES.

2. PLANTING SEASON: SEE SEEDING NOTE 2 ABOVE FOR TIMING.

3. DO NOT HYDROSEED IMMEDIATELY FOLLOWING RAIN, WHEN GROUND IS TOO DRY, OR WHEN WINDS EXCEED 12 MPH.

4. APPLY GEOPERM BONDED FIBER MATRIX, AND SEEDED SLURRY WITH HYDRAULIC SEEDER AT RATE OF 5,000 LBS. PER ACRE, DRY WEIGHT, AND SEED COMPONENT IS DEPOSITED EVENLY IN ONE PASS AND NOT LESS THAN THE SPECIFIED SEED-SOWING RATE; MANUFACTURED BY GEOENVIRONMENTAL OR AN APPROVED EQUIVALENT.
   - GEOPERM: 3,000 LBS./ACRE
   - SEED MIXTURE: PER SEED MIX (ADD SEED DRY WEIGHT TO TOTAL APPLICATION RATE)

5. AFTER APPLICATION, APPLY WATER WITH FINE SPRAY IMMEDIATELY AFTER EACH AREA HAS BEEN HYDROSEEDED. SATURATE TO 4 INCHES OF SOIL AND MAINTAIN MOISTURE LEVELS TWO TO FOUR INCHES.

6. THE CONTRACTOR SHALL ALSO FOLLOW THE TYPICAL MANUFACTURERS INSTALLATION RECOMMENDATIONS AND FINAL APPLICATION RATES.

MAINTENANCE

1. OCCASIONALLY MOW GRASS WITHIN THE SOLAR FARM TO MAINTAIN SEPARATION DISTANCES BETWEEN LOWER SIDE OF THE SOLAR PANEL AND VEGETATION TO AVOID ANY POTENTIAL SHADING OF THE SOLAR PANELS, AT THE DIRECTION OF THE OWNER'S REPRESENTATIVE – MINIMUM OF 2 TO 3 TIMES PER GROWING SEASON.
2. WATER TO PREVENT SEED MIXTURES AND SOIL FROM DRYING OUT.
3. HAND RAKE AND SMOOTH SURFACE TO REMOVE MINOR DEPRESSIONS OR IRREGULARITIES.
4. CONTROL GROWTH OF WEEDS AND INVASIVE SPECIES USING MECHANICAL METHODS ONLY. CHEMICAL PESTICIDES, HERBICIDES, INSECTICIDES, FUNGICIDES, AND RODENTICIDES SHALL NOT BE USED.
5. IMMEDIATELY RESEED AREAS SHOWING BARE SPOTS WITH SPECIFIED SEED MIXTURE AND APPLICATION RATE.
6. REPAIR WASHOUTS OR GULLIES.
7. PROTECT SEEDED AREAS WITH WARNING SIGNS DURING MAINTENANCE PERIOD.

LEGEND - OVERALL PLANTING TOTALS

LANDSCAPE PLANTING SCHEDULE — VISUAL MITIGATION PLANTING TEMPLATE TYPES A & B

EVERGREEN & DECIDUOUS TREES

(50' VISUAL BUFFER/SCREENING WITH MIX OF TREES)

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
CF	CORNUS FLORIDA FLOWERING DOGWOOD	29	5'-6' HT.	B&B	40'-50' HT.
JV	JUNIPERUS VIRGINIANA EASTERN RED CEDAR	8	8'-10' HT.	B&B	40'-50' HT.
		84	5'-6' HT.		
PM	PICEA MARIANA BLACK SPRUCE	11	8'-10' HT.	B&B	40'-60' HT.
		119	5'-6' HT.		
CT	CHAMAECYPARIS THYOIDES ATLANTIC WHITE CEDAR	6	8'-10' HT.	B&B	30'-40' HT.
		75	5'-6' HT.		

SHRUBS

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
AA	AMELANCHIER ARBOREA DOWNY SHADBUSH	44	6'-8' HT. CLUMP	B&B	15'-20' HT.
CR	CORNUS RACEMOSA GRAY DOGWOOD	73	36"-42" HT.	#3/5 CONT.	6'-10' HT.
MP	MYRICA PENNSYLVANICA NORTHERN BAYBERRY	46	36"-42" HT.	#3/5 CONT.	10'-12' HT.
VD	VIBURNUM DENTATUM ARROWWOOD VIBURNUM	43	3'-4' HT.	B&B	8'-15' HT.

PRELIMINARY SOLAR FARM GRASS SEED MIX

ERNST NATIVE/NATURALIZED SOLAR FARM SEED MIX: ERNMX -186-1, OR APPROVED EQUAL

MIX CONCENTRATION	BOTANICAL NAME	COMMON NAME	RATE (LBS/ACRE)	RATE (LBS/1000 FT²)
34.0%	FESTUCA RUBRA	CREEPING RED FESCUE	262	6
33.0%	FESTUCA OVINA	SHEEP FESCUE		
10.0%	FESTUCA BREVIPILA 'BEACON'	HARD FESCUE 'BEACON'		
5.0%	FESTUCA OVINA VAR. DURIUSCULA 'RHINO'	HARD FESCUE 'RHINO'		
5.0%	FESTUCA OVINA VAR. GLAUCA (F. ARVERNENSIS) (F. GLAUCA), 'BLUE RAY'	BLUE FESCUE, 'BLUE RAY'		
5.0%	POA PRATENSIS, 'ARGYLE'	KENTUCKY BLUEGRASS 'ARGYLE'		
5.0%	POA PRATENSIS, 'SHAMROCK'	KENTUCKY BLUEGRASS 'SHAMROCK'		
3.0%	AGROSTIS PERENNANS, ALBANY PINE BUSH-NY ECOTYPE	AUTUMN BENTGRASS, ALBANY PINE BUSH-NY ECOTYPE		

NOTE:

GRASS SEED MIXES ARE COMPRISED OF GRASSES THAT ARE NATIVE AND/OR INDIGENOUS TO THE AREA AND/OR CONSIDERED FAVORABLE FOR WILDLIFE HABITAT AND SUSTAINABLE GROWTH. ADDITIONALLY, THE SOLAR FARM SEED MIX WAS DEVELOPED ESPECIALLY FOR NATIVE GRASS PLANTINGS AROUND SOLAR ARRAY FIELDS AND SHALL BE UTILIZED ACCORDINGLY. THESE GRASSES WILL MATURE OUT TO A HEIGHT OF APPROXIMATELY 2 TO 2 1/2 FEET HIGH. THERE ARE NO WILDFLOWER OR POLLINATOR SEED SPECIES CONTAINED IN THESE NATIVE GRASS SEED MIXES.

ALTERNATE PRELIMINARY SOLAR FARM GRASS SEED MIX

ERNST SOLAR FARM SEED MIX: ERNMX - 186, OR APPROVED EQUAL (BASED ON AVAILABILITY)

MIX CONCENTRATION	BOTANICAL NAME	COMMON NAME	RATE (LBS/ACRE)	RATE (LBS/1000 FT²)
45.5%	FESTUCA RUBRA	CREEPING RED FESCUE	262	6
15.0%	FESTUCA OVINA VAR. DURIUSCULA, 'JETTY'	HARD FESCUE, 'JETTY'		
15.0%	FESTUCA OVINA VAR. DURIUSCULA, 'GLADIATOR'	HARD FESCUE, 'GLADIATOR'		
10.0%	FESTUCA RUBRA SSP. COMMUTATA	CHEWING FESCUE		
5.0%	POA PRATENSIS, 'KELLY'	KENTUCKY BLUEGRASS, 'KELLY'		
5.0%	POA PRATENSIS, 'MAVERICK'	KENTUCKY BLUEGRASS, 'MAVERICK'		
4.5%	TRIFOLIUM REPENS, DUTCH	WHITE CLOVER, DUTCH		

NOTE:

GRASS SEED MIXES ARE COMPRISED OF GRASSES THAT ARE NATIVE AND/OR INDIGENOUS TO THE AREA AND/OR CONSIDERED FAVORABLE FOR WILDLIFE HABITAT AND SUSTAINABLE GROWTH. ADDITIONALLY, THE SOLAR FARM SEED MIX WAS DEVELOPED ESPECIALLY FOR GRASS PLANTINGS AROUND SOLAR ARRAY FIELDS AND SHALL BE UTILIZED ACCORDINGLY. THESE GRASSES WILL MATURE OUT TO A HEIGHT OF APPROXIMATELY 1 TO 3 FEET HIGH. WHITE CLOVER IS THE ONLY WILDFLOWER OR POLLINATOR SEED SPECIES CONTAINED IN THESE GRASS SEED MIX.

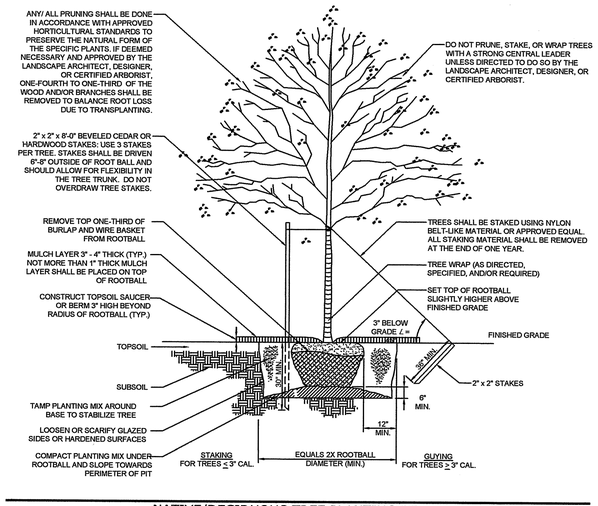
FLOWERING HERBACEOUS LAYER/NORTHEAST SOLAR POLLINATOR SEED MIXES

ERNST NORTHEAST SOLAR POLLINATOR 3' MIX: ERNMX - 612 OR APPROVED EQUAL

MIX CONCENTRATION	BOTANICAL NAME	COMMON NAME	RATE (LBS/ACRE)	RATE (LBS/1000 FT²)
94.9%	FESTUCA OVINA, VARIETY NOT STATED	SHEEP FESCUE, VARIETY NOT STATED	60	1.4
2.5%	ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED		
2.0%	CHAMAECRISTA FASCICULATA, PA ECOTYPE	PARTRIDGE PEA, PA ECOTYPE		
0.3%	OENOTHERA FRUTICOSA VAR. FRUTICOSA	SUNDROPS		
0.3%	TRADESCANTIA OHIENSIS, PA ECOTYPE	OHIO SPIDERWORT, PA ECOTYPE		
SEED AT A RATE OF 60 LB / ACRE WITH 45 LBS / ACRE OF A COVER CROP. FOR A COVER CROP USE EITHER GRAIN OATS (1 JAN TO 31 JUL) OR GRAIN RYE (1 AUG TO 31 DEC)				

NOTE:

NATIVE POLLINATOR SEED MIXES ARE INTENDED TO PROVIDE A EXCELLENT WILDLIFE FOOD AND SHELTER THAT WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE NATIVE WILDFLOWERS AND GRASSES IN THIS MIX PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL. POLLINATOR SEED MIXES ARE INTENDED TO PROVIDE NECTAR AND FOOD SOURCES FOR A VARIETY OF POLLINATORS AND LARVA. THESE MIXES ARE COMPRISED OF A FAIRLY EVEN MIX OF NATIVE AND/OR INDIGENOUS WILDFLOWERS AND GRASSES. THE POLLINATOR SEED MIX IS INTENDED TO BE SOWN IN THE DESIGNATED AREAS OR POCKETS THAT ARE ADJACENT TO THE SOLAR ARRAY FIELD AND AROUND THE INSIDE PERIMETER OF THE SECURITY FENCE. LOCATIONS TO BE DETERMINED BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

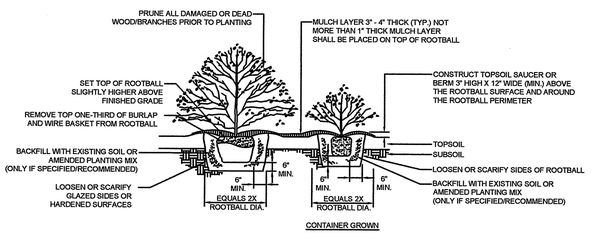


NATIVE/DECIDUOUS TREE PLANTING DETAIL

N.T.S.

EVERGREEN TREE PLANTING DETAIL

N.T.S.



SHRUB PLANTING DETAIL

N.T.S.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 2 4 2023 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

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SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

REGISTERED LANDSCAPE ARCHITECT
MATTHEW WILLIAM TSUGRAN
No. 705
Not Valid Without Signature

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GMT | DESIGNED BY: GMT | CHECKED BY: JMG

FINAL PLAN
LANDSCAPE NOTES AND DETAILS

FOR PERMITTING ONLY

DRAWING NO: **L-3**

PROJECT NO: N532-000
DATE OF ISSUE: 2/23/2023
SHEET NO: 19 OF 26

Received Historical AUG 17 2023 Coastal Resources Mgmt. Council

DATE: Feb 28, 2023 - 4:49PM
FILENAME: G:\Waltham\Jobs\N532-000 Heathus Solar— Exeter Ten Solar— Design and Permitting\04 ISSHEETS\CAD\Drawings\Final Plan\N532-000 Exeter Ten Solar Final Landscape Details.dwg

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LEGEND

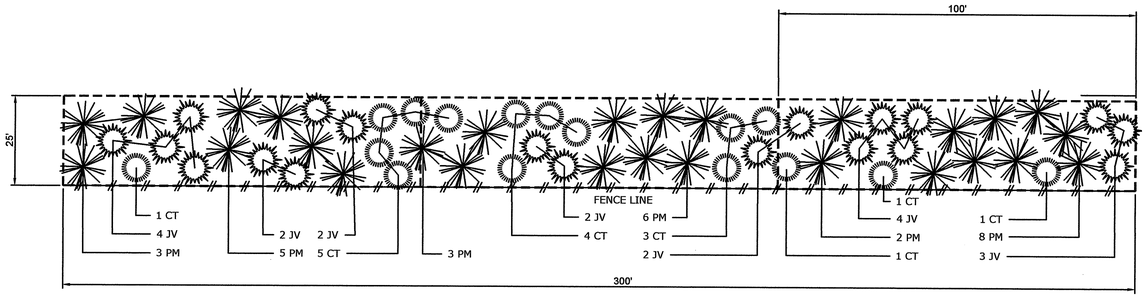
VISUAL MITIGATION PLANTING TEMPLATE - TYPE A

LANDSCAPE PLANTING SCHEDULE: 25' VISUAL BUFFER/SCREENING

EVERGREEN TREES (25' VISUAL BUFFER/SCREENING WITH EVERGREEN TREES ONLY)

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
JV	JUNIPERUS VIRGINIANA EASTERN RED CEDAR	19	5'-6' HT. OR, * 8'-10' HT.	B&B	40'-50' HT.
PM	PICEA MARIANA BLACK SPRUCE	27	5'-6' HT. OR, * 8'-10' HT.	B&B	40'-60' HT.
CT	CHAMAECYPARIS THYOIDES ATLANTIC WHITE CEDAR	16	5'-6' HT. OR, * 8'-10' HT.	B&B	30'-40' HT.

*NOTE: SEE VISUAL MITIGATION PLANTING TYPE A NOTE #3, FOR ADDITIONAL PLANTING INSTRUCTIONS FOR LARGER PLANT MATERIAL TO BE USED AT VM-1 ONLY.



N.T.S.

VISUAL MITIGATION PLANTING TEMPLATE - TYPE A

LEGEND

VISUAL MITIGATION PLANTING TYPE "A":

1. SEE GENERAL SEEDING AND LANDSCAPE NOTES FOR ADDITIONAL PLANTING REQUIREMENTS AND SEED MIXTURES.
2. THE 25-FOOT-WIDE PROPOSED BUFFER TYPE "A" WILL BE A MIX OF NATIVE EVERGREEN TREES, ARRANGED TO FORM A NATURAL APPEARANCE AND CONTINUOUS SOLID SCREEN. SEE THE PLANTING TEMPLATE FOR ARRANGE OF PLANTS AND THE PLANT SCHEDULES FOR TYPE AND SIZE.
3. VM-1 PLANT MATERIAL SIZE IS TO BE 8 - 10 FEET TALL. FOLLOW THE PLANTING TEMPLATE TYPICAL LAYOUT TYPE A FOR BOTH VM-1 AND VM-2 LANDSCAPE BUFFERS.

VM1 - VEGETATIVE BUFFER / SCREEN MITIGATION TABLE

NUMBER	MITIGATION TYPE	LENGTH	LINE/CHORD DIRECTION	START EASTING, NORTHING	END EASTING, NORTHING
L1	TYPE A	87	S88° 03' 46.27"E	E:309945.9416, N:180709.4906	E:310032.4360, N:180706.5652

VM2 - VEGETATIVE BUFFER / SCREEN MITIGATION TABLE

NUMBER	MITIGATION TYPE	LENGTH	LINE/CHORD DIRECTION	START EASTING, NORTHING	END EASTING, NORTHING
L2	TYPE A	236	N90° 00' 00.00"E	E:310028.1221, N:180660.3697	E:310263.7957, N:180660.3697
L3	TYPE A	45	N81° 46' 19.23"E	E:310263.7957, N:180660.3697	E:310308.2887, N:180866.8034

LEGEND

VISUAL MITIGATION PLANTING TEMPLATE - TYPE B

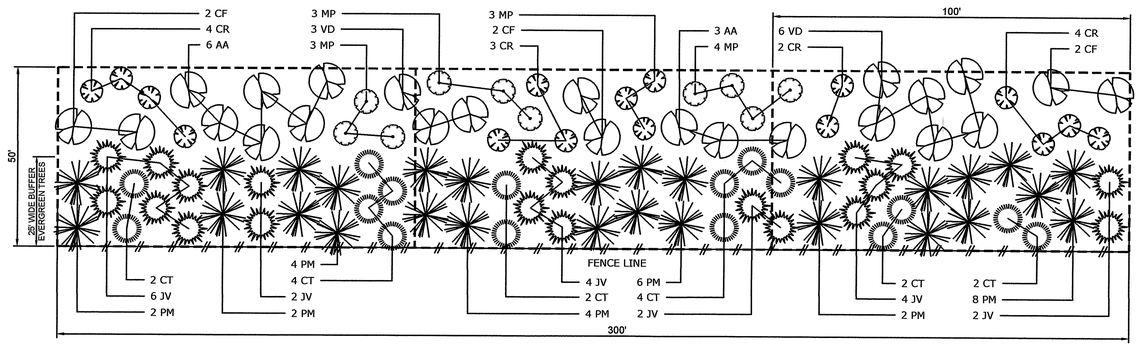
LANDSCAPE PLANTING SCHEDULE: 50' VISUAL BUFFER/SCREENING

EVERGREEN & DECIDUOUS TREES (50' VISUAL BUFFER/SCREENING WITH EVERGREEN TREES ONLY)

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
CF	CORNUS FLORIDA FLOWERING DOGWOOD	6	5'-6' HT.	B&B	40'-50' HT.
JV	JUNIPERUS VIRGINIANA EASTERN RED CEDAR	20	5'-6' HT.	B&B	40'-50' HT.
PM	PICEA MARIANA BLACK SPRUCE	28	5'-6' HT.	B&B	40'-60' HT.
CT	CHAMAECYPARIS THYOIDES ATLANTIC WHITE CEDAR	16	5'-6' HT.	B&B	30'-40' HT.

SHRUBS

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
AA	AMELANCHIER ARBOREA DOWNY SHADBUSH	9	6'-8' HT. CLUMP	B&B	15'-20' HT.
CR	CORNUS RACEMOSA GRAY DOGWOOD	16	36"-42" HT.	#3/5 CONT.	6'-10' HT.
MP	MYRICA PENNSYLVANICA NORTHERN BAYBERRY	10	36"-42" HT.	#3/5 CONT.	10'-12' HT.
VD	VIBURNUM DENTATUM ARROWWOOD VIBURNUM	9	3'-4' HT.	B&B	8'-15' HT.



N.T.S.

VISUAL MITIGATION PLANTING TEMPLATE - TYPE B

LEGEND

VISUAL MITIGATION PLANTING TYPE "B":

1. SEE GENERAL SEEDING AND LANDSCAPE NOTES FOR ADDITIONAL PLANTING REQUIREMENTS AND SEED MIXTURES.
2. THE 50-FOOT-WIDE PROPOSED BUFFER TYPE "B" WILL BE A MIX OF NATIVE EVERGREEN AND DECIDUOUS TREES AND SHRUBS ARRANGED TO FORM A NATURAL APPEARANCE AND CONTINUOUS SOLID SCREEN. SEE THE PLANTING TEMPLATE FOR ARRANGE OF PLANTS AND THE PLANT SCHEDULES FOR TYPE AND SIZE.

VM3 - VEGETATIVE BUFFER / SCREEN MITIGATION TABLE

NUMBER	MITIGATION TYPE	LENGTH	LINE/CHORD DIRECTION	START EASTING, NORTHING	END EASTING, NORTHING
L5	TYPE B	343	S08° 14' 20.16"E	E:310289.4368, N:180651.4522	E:310338.5247, N:180312.4376
L6	TYPE B	382	S52° 08' 03.39"E	E:310338.5247, N:180312.4376	E:310639.8390, N:180078.1602
L7	TYPE B	120	S07° 40' 28.84"W	E:310639.8390, N:180078.1602	E:310623.7886, N:179959.0522
L8	TYPE B	57	N71° 46' 48.16"W	E:310623.7886, N:179959.0522	E:310569.5179, N:179976.9164
L9	TYPE B	433	S31° 58' 37.84"W	E:310569.5179, N:179976.9164	E:310340.1592, N:179609.5402
L10	TYPE B	23	S31° 58' 37.84"W	E:310340.1592, N:179609.5402	E:310327.7607, N:179589.6809
L11	TYPE B	8	S31° 58' 37.84"W	E:310327.7607, N:179589.6809	E:310323.6279, N:179583.0611

LEGEND - VM1

LANDSCAPE PLANTING SCHEDULE

PLANTING TEMPLATE TYPE A

TOTAL MITIGATION LENGTH = 105 LF

EVERGREEN TREES

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
JV	JUNIPERUS VIRGINIANA EASTERN RED CEDAR	8	8'-10' HT.	B&B	40'-50' HT.
PM	PICEA MARIANA BLACK SPRUCE	11	8'-10' HT.	B&B	40'-60' HT.
CT	CHAMAECYPARIS THYOIDES ATLANTIC WHITE CEDAR	6	8'-10' HT.	B&B	30'-40' HT.

LEGEND - VM2

LANDSCAPE PLANTING SCHEDULE

PLANTING TEMPLATE TYPE A

TOTAL MITIGATION LENGTH = 285 LF

EVERGREEN TREES

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
JV	JUNIPERUS VIRGINIANA EASTERN RED CEDAR	16	5'-6' HT.	B&B	40'-50' HT.
PM	PICEA MARIANA BLACK SPRUCE	27	5'-6' HT.	B&B	40'-60' HT.
CT	CHAMAECYPARIS THYOIDES ATLANTIC WHITE CEDAR	16	5'-6' HT.	B&B	30'-40' HT.

LEGEND - VM3

LANDSCAPE PLANTING SCHEDULE

PLANTING TEMPLATE TYPE B

TOTAL MITIGATION LENGTH = 1,365 LF

EVERGREEN & DECIDUOUS TREES (50' VISUAL BUFFER/SCREENING WITH EVERGREEN TREES ONLY)

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
CF	CORNUS FLORIDA FLOWERING DOGWOOD	28	5'-6' HT.	B&B	40'-50' HT.
JV	JUNIPERUS VIRGINIANA EASTERN RED CEDAR	92	5'-6' HT.	B&B	40'-50' HT.
PM	PICEA MARIANA BLACK SPRUCE	128	5'-6' HT.	B&B	40'-60' HT.
CT	CHAMAECYPARIS THYOIDES ATLANTIC WHITE CEDAR	72	5'-6' HT.	B&B	30'-40' HT.

SHRUBS

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
AA	AMELANCHIER ARBOREA DOWNY SHADBUSH	42	6'-8' HT. CLUMP	B&B	15'-20' HT.
CR	CORNUS RACEMOSA GRAY DOGWOOD	73	36"-42" HT.	#3/5 CONT.	6'-10' HT.
MP	MYRICA PENNSYLVANICA NORTHERN BAYBERRY	46	36"-42" HT.	#3/5 CONT.	10'-12' HT.
VD	VIBURNUM DENTATUM ARROWWOOD VIBURNUM	39	3'-4' HT.	B&B	8'-15' HT.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 24 2023 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

VISUAL MITIGATION PLANTING SCHEDULE - TYPE A

VISUAL MITIGATION PLANTING SCHEDULE - TYPE B

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

RENEW SOLAR RI EXETER TEN, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

REGISTERED LANDSCAPE ARCHITECT
MATTHEW WILLIAM TSUSHIMA
No. 705
Not Valid Without Signature

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GMT | DESIGNED BY: GMT | CHECKED BY: JMG

FINAL PLAN
LANDSCAPE NOTES AND DETAILS

FOR PERMITTING ONLY

DRAWING NO: **L-4**

PROJECT NO: N532-000
DATE OF ISSUE: 2/23/2023
SHEET NO: 20 OF 26

Received
AUG 17 2023
Office of Water Resources

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DATED: Feb 28, 2023 - 4:47PM
FILENAME: G:\Waltham\Jobs\N532-000 Heatlas Solar— Exeter Ten Solar— Design and Permitting\04 drawings\CAD\Drawings\Final Plan\N532-000 Exeter Ten Solar Final Landscape Details.dwg

RT 102 - TEN ROD ROAD

(AKA VICTORY HIGHWAY)
(PUBLIC - VARIABLE WIDTH)

POB (BK. 217, PG. 148) & SURVEYOR'S DESCRIPTION

RHODE ISLAND HIGHWAY BOUNDARY

MAP 37 - BLOCK 1 - LOT 8
N/F LANDS OF
STEPHEN R. MATTSCHECK
BK. 105, PG. 817
#628 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 7
N/F LANDS OF
MATTHEW B. ARMSTRONG
BK. 534, PG. 303
#554 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 6
N/F LANDS OF
BRIAN T. MAUHS
BK. 527, PG. 56
#544 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

MAP 37 - BLOCK 1 - LOT 9
N/F LANDS OF
STEPHEN P. MATTSCHECK
(PER TOWN GIS)
#0 HALLVILLE ROAD

MAP 37 - BLOCK 1 - LOT 14
N/F LANDS OF
NICOLA RAINONE, JR. &
KATHLEEN S. RAINONE
(PER TOWN GIS)
#120 HALLVILLE ROAD

MAP 37 - BLOCK 1 - LOT 16
N/F LANDS OF
PATRICIA M. MASTORS
REVOCABLE TRUST
BK. 546, PG. 152
#130 HALLVILLE ROAD

MAP 37 - BLOCK 5 - LOT 3
N/F LANDS OF
DAVID E. PAYETTE &
JENNIFER W. PAYETTE
BK. 394, PG. 311
#5 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 4
N/F LANDS OF
MARVIN M. PELSER, JR. &
SHARON A. PELSER
(PER TOWN GIS)
#17 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 5
N/F LANDS OF
PATRICIA HOWLAND &
MATTHEW HOWLAND
BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 6
N/F LANDS OF
PAUL R. STORTI &
CHARLENE M. STORTI
BK. 54, PG. 522
#35 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 14
N/F LANDS OF
CRAIG ALAN SWANSON
BK. 999, PG. 72
#59 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 15
N/F LANDS OF
THERESA C. DONOVAN &
WILLIAM G. DONOVAN
BK. 106, PG. 324
#75 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 16
N/F LANDS OF
MARK F. MONAHAN
BK. 337, PG. 304
#85 LOCUST VALLEY ROAD

TABLE OF APPARENT ENCROACHMENTS

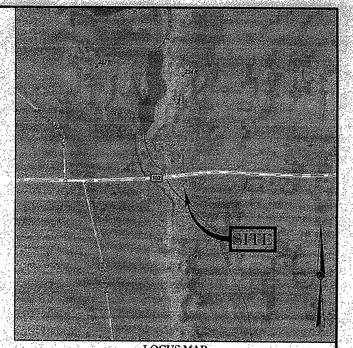
[A] MEANDERING FENCELINES AND STONE WALLS ALONG EASTERLY AND WESTERLY BOUNDARIES OF SURVEYED PARCEL AS WELL AS THROUGH THE PARCEL. FENCE AND WALL ALONG THE BOUNDARIES OWNERSHIP UNKNOWN. FENCELINE O - 2.5' OFFSET FOR 1600'± ALONG WESTERLY BOUNDARY AND 0 - 9.6' OFFSET FOR 1800'± ALONG EASTERLY BOUNDARY. STONEWALLS AND STONEWALL REMAINS O - 2.9' OFFSET FOR 900'± ALONG WESTERLY BOUNDARY AND 0 - 39' OFFSET FOR 340'± ALONG EASTERLY BOUNDARY.

[B] STONE WALL ENTERS LOT 15 BY UP TO 38.4', LOT 9 BY AS MUCH AS 2.7', LOT 3 BY AS MUCH AS 13.1', AND LOT 4 BY AS MUCH AS 8.5'.

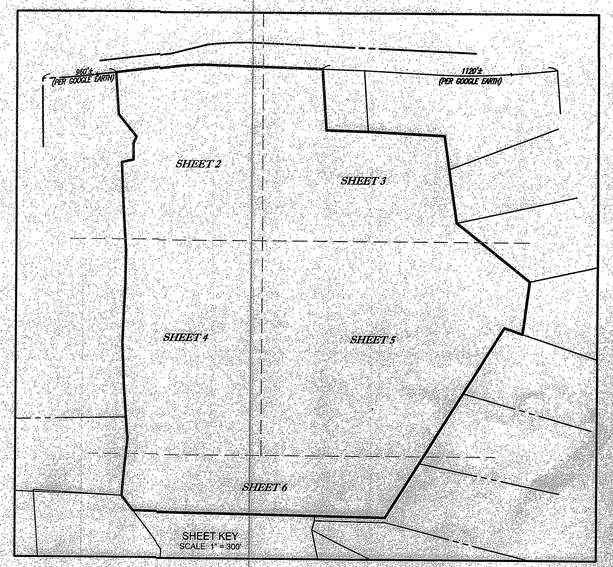
NOTE: THESE ARE THE POSSIBLE ENCROACHMENTS OBSERVED DURING THE FIELD SURVEY. THERE MAY BE OTHERS NOT RECOGNIZED BY THE SURVEYOR.

LEGEND

- TREE LINE
- WETLAND FLAG & NO.
- RHB — RHODE ISLAND HIGHWAY BOUND FOUND
- 1.0' — OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE
- (S) — SURVEY DIMENSION
- (D) — DEED DIMENSION
- 7 — TITLE REPORT EXCEPTION
- A — POSSIBLE ENCROACHMENT LOCATION



LOCUS MAP
©2013 ESRI WORLD STREET MAPS
NOT TO SCALE



SHEET KEY
SCALE: 1" = 300'

REFERENCES:

1. THE TAX ASSESSOR'S MAP OF TOWN OF EXETER, WASHINGTON COUNTY, MAP 37
2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, WASHINGTON COUNTY, RI (ALL JURISDICTIONS) PANEL 80 OF 368," COMMUNITY-PANEL NUMBER 44009C0080J, MAP REVISED APRIL 3, 2020.
3. MAP ENTITLED "LOCUST VALLEY SECTION TWO" AS PREPARED BY RICHARD F. DIETZ, REG CIVIL ENGR. DATED APRIL 1983 AS FILED IN THE TOWN OF EXETER CLERK'S OFFICE AS PLAT NO. 89
4. MAP ENTITLED "MAP OF LOCUST VALLEY SECTION ONE" DATED MARCH 28, 1961 AS PREPARED BY ALFRED E. HANSEN ASSOCIATES , INC. AS FILED IN THE TOWN OF EXETER CLERK'S OFFICE AS PLAT NO. 74.
5. MAP ENTITLED "ALTA/NSPS LAND TITLE SURVEY RI B&C PROJECT NO. 201801260, 002 590 TEN ROD ROAD, EXETER, RI", PREPARED FOR: BOCK & CLARK CORPORATION. PREPARED BY: RAVI ENGINEERING & LAND SURVEY PC, DATED: JULY 10, 2018.
6. MAP ENTITLED "SITE PLAN RENEW SOLAR RI EXETER TEN LLC 590 TEN ROD ROAD", PREPARED BY: TRC ENGINEERING INC, DATED: JULY 2, 2018, SHEETS C-21 C-3, & C-4.
7. ELECTRONIC SHAPE FILES OF STREAM AND WETLAND LOCATIONS, PROVIDED BY CLIENT.

RHODE ISLAND STATE PLANE COORDINATE SYSTEM - NAD 83

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 24 2022 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Wendy F. Freeman

GRAPHIC SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft

THIS SURVEY IS CERTIFIED TO:
RENEW SOLAR RI EXETER TEN LLC
FIRST AMERICAN TITLE INSURANCE COMPANY
JAMES MARSHALL

No.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
1	REVISED TO ADD TOPOGRAPHIC DETAIL OVER PORTION OF SITE	B.S.B.	B.A.V.	J.P.L.	4-01-2022

FIELD DATE	3-23-2022 12-13-2021 12-1-2020
FIELD BOOK NO.	21-16 MA 21-MA 20-17 MA
FIELD BOOK PG	83 149-150 23-24
FIELD CREW	B.S.B.
DRAWN	B.A.V.
REVIEWED	S.P.P.

ALTA/NSPS LAND TITLE SURVEY
RENEW SOLAR RI EXETER TEN LLC
590 TEN ROD ROAD
MAP 37, BLOCK 1, LOT 5
TOWN OF EXETER, WASHINGTON COUNTY
STATE OF RHODE ISLAND

CONTROL POINT ASSOCIATES, INC
ALBANY, NY 518-217-3011
CHALFONT, PA 215-712-9800
HAUPPAUGE, NY 631-360-2442
MANHATTAN, NY 646-780-0411
MT. LAUREL, NJ 609-857-2099
WARREN, NJ 908-668-0099
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
508.948.3000 508.948.3003 FAX
WWW.CPASURVEY.COM

APPROVED	DATE	SCALE	FILE NO.	DWG NO.
J.P.L.	12-21-2020	1" = 100'	03-200321-00	1 OF 6

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON DECEMBER 31, 2020 AS FOLLOWS:

1. TYPE OF BOUNDARY SURVEY — MEASUREMENT SPECIFICATION
   COMPREHENSIVE BOUNDARY SURVEY — I
2. OTHER TYPE OF SURVEY — MEASUREMENT SPECIFICATION
   DATA ACCUMULATION SURVEY — III
   PLANIMETRIC SURVEY (TOPOGRAPHIC SURVEY)
   VERTICAL CONTROL: STANDARD — V-3
   TOPOGRAPHIC SURVEY ACCURACY — T-2
3. THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THIS PLAN IS AS FOLLOWS:
   TO PREPARE ALTA/NSPS LAND TITLE SURVEY AND OBTAIN TOPOGRAPHIC AND PLANIMETRIC INFORMATION TO BE UTILIZED FOR CONVEYANCE OF THE PROPERTY AND AS A BACKGROUND DOCUMENT FOR SITE PLAN PREPARATION

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE "2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS", JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 7(a), 7(b)(1), 7(c), 8, 9, 13, 14 AND 15 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON DECEMBER 1, 2020, UPDATED DECEMBER 13, 2021 & MARCH 23, 2022.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR BLUE INK SEAL

JOHN P. LYNCH
No. 1925
PROFESSIONAL LAND SURVEYOR

JOHN P. LYNCH — DATE: 4-01-2022
RHODE ISLAND PROFESSIONAL LAND SURVEYOR #1925
CERTIFICATE OF AUTHORIZATION NUMBER A350

SEE SHEET 6 OF 6 FOR NOTES
SEE SHEET 2 OF 6 FOR EXHIBIT A - LEGAL DESCRIPTION
SEE SHEET 2 THRU 6 OF 6 FOR PLANIMETRIC DETAIL
SEE SHEET 4 OF 6 FOR SURVEYOR'S DESCRIPTION

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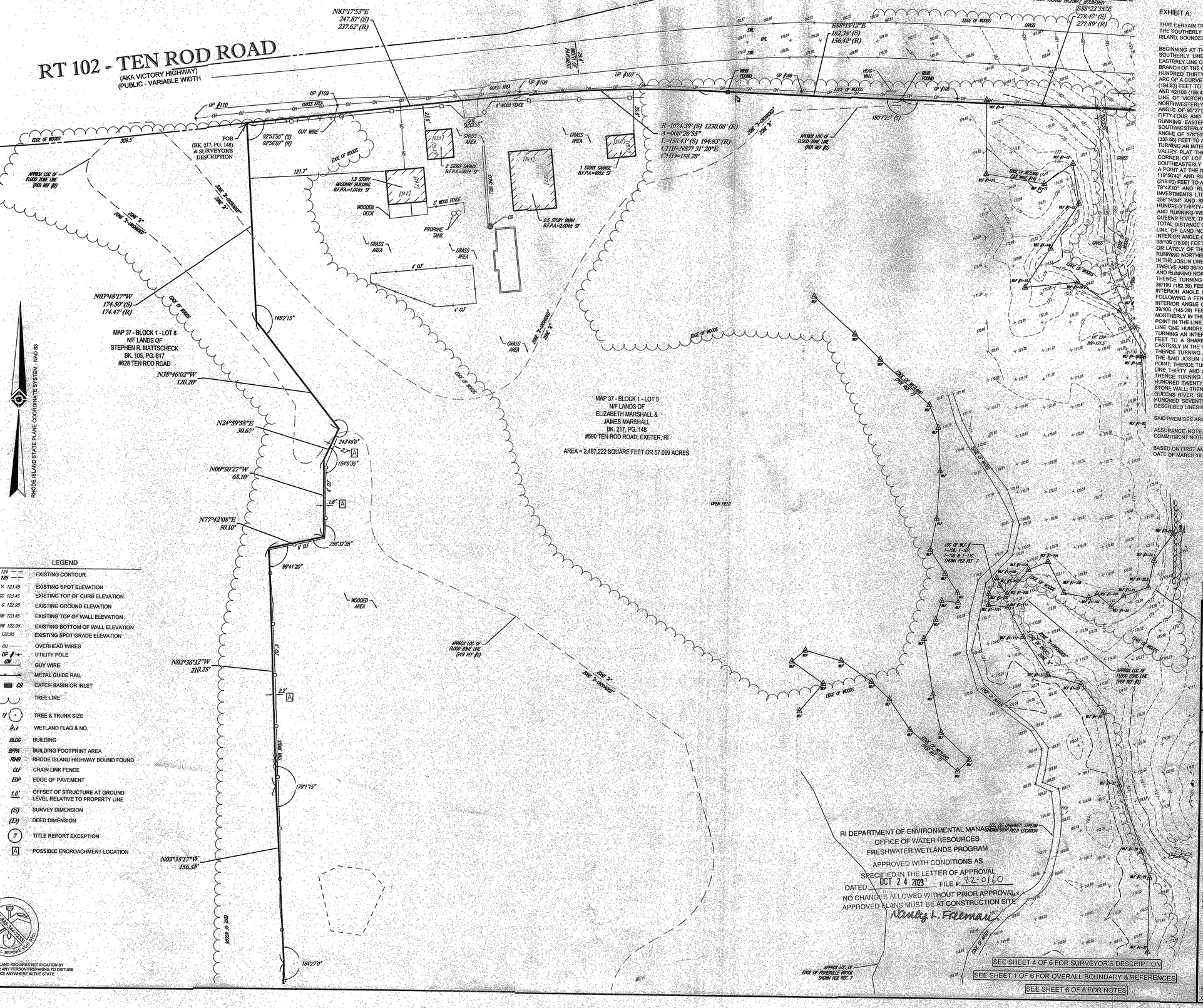
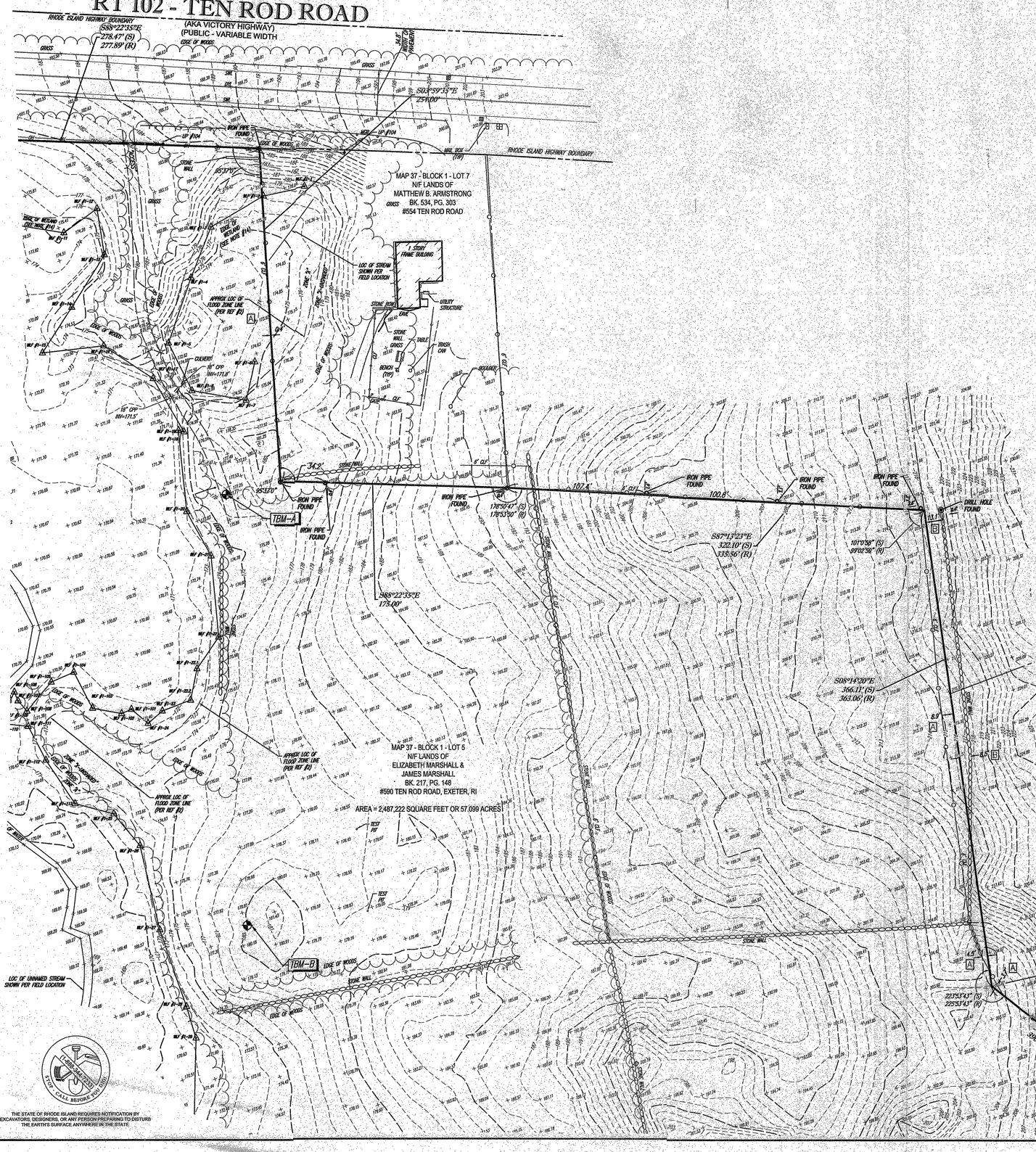
THE COPYING OR REUSE OF THIS DOCUMENT, OR ANYTHING THEREOF, FOR OTHER THAN THE ORIGINAL PROJECT OR THE PURPOSE AGREED TO IN WRITING BY CONTROL POINT ASSOCIATES, INC. IS PROHIBITED. ANY SUCH UNAUTHORIZED USE WITHOUT THE WRITTEN CONSENT OF CONTROL POINT ASSOCIATES, INC. IS PROHIBITED.

THE STATE OF RHODE ISLAND REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.


RT 102 - TEN ROD ROAD
(AKA VICTORY HIGHWAY)
(PUBLIC - VARIABLE WIDTH
RHODE ISLAND HIGHWAY BOUNDARY
S88°22'35"E
278.47' (S)
277.89' (R)
N83°17'53"E
247.87' (S)
237.62' (R)
S89°13'12"E
182.38' (S)
156.42' (R)
POB
(BK. 217, PG. 148)
& SURVEYOR'S
DESCRIPTION
S25°35'0" (S)
S25°50' (R)
309.5'
121.7'
N03°48'17"W
174.50' (S)
174.47' (R)
145°2'15"
N38°46'02"W
120.20'
N24°59'58"E
30.67'
24.3'
154°9'35"
N00°50'27"W
68.10'
N77°42'08"E
50.10'
259°32'35"
99°41'20"
N02°36'32"W
210.25'
179°1'15"
N03°35'17"W
156.58'
184°27'0"
MAP 37 - BLOCK 1 - LOT 8
N/F LANDS OF
STEPHEN R. MATTSCHECK
BK. 105, PG. 817
#628 TEN ROD ROAD
MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI
AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES
R=1074.39' (S) 1230.08' (R)
A=008°26'55"
L=158.43' (S) 194.83' (R)
CHD=N87°31'20"E
CHD=158.28'
180°7'23" (S)
UP #105
UP #106
UP #107
UP #108
UP #109
UP #110
RHB FOUND
HEAD WALL
EDGE OF WOODS
GRASS AREA
GUY WIRE
6' WOOD FENCE
24.6'
36.6'
[33.5']
[24.0']
[36.4']
[25.0']
[42.0']
[31.2']
2 STORY GARAGE
B.F.F.A.=384 S.F.
1 STORY GARAGE
B.F.F.A.=456 S.F.
1.5 STORY
MASONRY BUILDING
B.F.F.A.=1,016 S.F.
2.5 STORY BARN
B.F.F.A.=2,004 S.F.
5' WOOD FENCE
WOODEN
DECK
PROPANE
TANK
CB
4' CLF
6' CLF
1.8'
2.3'
WOODED
AREA
OPEN FIELD
ZONE "X"
ZONE "X-UNSHADED"
APPROX LOC OF
FLOOD ZONE LINE
(PER REF #2)
LOC OF WLF #
1-106, 1-107,
1-109 & 1-110
SHOWN PER REF. 7
WLF #1-1
WLF #1-2
WLF #1-3
WLF #1-4
WLF #1-5
WLF #1-6
WLF #1-7
WLF #1-8
WLF #1-9
WLF #1-10
WLF #1-11
WLF #1-12
WLF #1-13
WLF #1-14
WLF #1-15
WLF #1-16
WLF #1-17
WLF #1-18
WLF #1-19
WLF #1-20
WLF

RT 102 - TEN ROD ROAD



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Nancy L. Freeman

RHODE ISLAND STATE PLANE COORDINATE SYSTEM - NAD 83

LEGEND

124	EXISTING CONTOUR
125	EXISTING CONTOUR
× 123.45	EXISTING SPOT ELEVATION
× TC 123.45	EXISTING TOP OF CURB ELEVATION
× G 122.95	EXISTING GROUND ELEVATION
× TW 123.45	EXISTING TOP OF WALL ELEVATION
× BW 122.95	EXISTING BOTTOM OF WALL ELEVATION
× 122.95	EXISTING SPOT GRADE ELEVATION
OH	OVERHEAD WIRES
UP	UTILITY POLE
GW	GUY WIRE
	METAL GUIDE RAIL
CB	CATCH BASIN OR INLET
	TREE LINE
	TREE & TRUNK SIZE
WF	WETLAND FLAG & NO.
BLDG	BUILDING
BFPA	BUILDING FOOTPRINT AREA
RIHB	RHODE ISLAND HIGHWAY BOUND FOUND
CLF	CHAIN LINK FENCE
EOP	EDGE OF PAVEMENT
1.0'	OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE
(S)	SURVEY DIMENSION
(D)	DEED DIMENSION
7	TITLE REPORT EXCEPTION
A	POSSIBLE ENCROACHMENT LOCATION

SEE SHEET 4 OF 6 FOR SURVEYOR'S DESCRIPTION
SEE SHEET 6 OF 6 FOR NOTES
SEE SHEET 1 OF 6 FOR OVERALL BOUNDARY & REFERENCES

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

THIS SURVEY IS CERTIFIED TO
RENEW SOLAR RI EXETER TEN LLC
FIRST AMERICAN TITLE INSURANCE COMPANY
JAMES MARSHALL

No.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
1	REVISED TO ADD TOPOGRAPHIC DETAIL OVER PORTION OF SITE	B.S.B.	B.A.V.	J.P.L.	4-01-2022

FIELD DATE:
3-23-2022
12-13-2021
12-1-2020
FIELD BOOK NO:
21-16 MA
21-MA
20-17 MA
FIELD BOOK PG:
83
149-150
23-24
FIELD CREW:
B.S.B
DRAWN:
B.A.V

ALTA/NSPS LAND TITLE SURVEY
RENEW SOLAR RI EXETER TEN LLC
590 TEN ROD ROAD
MAP 37, BLOCK 1, LOT 5
TOWN OF EXETER, WASHINGTON COUNTY
STATE OF RHODE ISLAND

CONTROL POINT ASSOCIATES, INC.
332 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
508.948.3000 508.948.3003 FAX
WWW.CPASURVEY.COM
ALBANY, NY 518-217-5010
CHALFONT, PA 215-712-9800
HAUPPAUGE, NY 631-582-2640
MANHATTAN, NY 646-780-0411
MT. LAUREL, NJ 609-857-0999
WARREN, NJ 908-668-0099

REVIEWED:	APPROVED:	DATE	SCALE:	FILE NO.	DWG. NO.
S.P.P.	J.P.L.	12-21-2020	1" = 40'	03-200321-00	23 OF 26

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 438-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON DECEMBER 31, 2020 AS FOLLOWS:

1. TYPE OF BOUNDARY SURVEY — MEASUREMENT SPECIFICATION:
   COMPREHENSIVE BOUNDARY SURVEY — I
2. OTHER TYPE OF SURVEY: — MEASUREMENT SPECIFICATION:
   DATA ACCUMULATION SURVEY (PLANIMETRIC SURVEY, TOPOGRAPHIC SURVEY) — III
   VERTICAL CONTROL STANDARD — V-3
   TOPOGRAPHIC SURVEY ACCURACY — T-2
3. THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THIS PLAN IS AS FOLLOWS:
   PREPARE ALTA/NSPS LAND TITLE SURVEY AND OBTAIN TOPOGRAPHIC AND PLANIMETRIC INFORMATION TO BE UTILIZED FOR CONVEYANCE OF THE PROPERTY AND AS A BACKGROUND DOCUMENT FOR SITE PLAN PREPARATION.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE "2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS", JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 7(a), 7(b)(1), 7(c), 8, 9, 13, 14 AND 15 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON DECEMBER 1, 2020, UPDATED DECEMBER 13, 2021 & MARCH 23, 2022.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR BLUE INK SEAL.

JOHN P. LYNCH
No. 1925
PROFESSIONAL LAND SURVEYOR

JOHN P. LYNCH
RHODE ISLAND PROFESSIONAL LAND SURVEYOR #1925
CERTIFICATE OF AUTHORIZATION NUMBER A350

DATE: 4-01-2022

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THIS PLAN IS THE PROPERTY OF CONTROL POINT ASSOCIATES, INC. AND IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THE PURPOSE DESCRIBED HEREIN. ANY REUSE, WITHOUT THE WRITTEN PERMISSION OF CONTROL POINT ASSOCIATES, INC. IS PROHIBITED.

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SURVEYOR'S METES AND BOUNDS DESCRIPTION
LOT 5, BLOCK 1, MAP 37
TOWN OF EXETER, WASHINGTON COUNTY, RHODE ISLAND

BEGINNING AT A POINT ON THE SOUTHERLY LINE OF ROUTE 102, AKA TEN ROD ROAD AT A CORNER IN COMMON WITH LOT 8, BLOCK 1, MAP 37 (N/F LANDS OF STEPHEN R. MATTSCHECK), RUNNING THENCE;

1. WITH THE SOUTHERLY LINE OF ROUTE 102, AKA TEN ROD ROAD, NORTH 83 DEGREES - 17 MINUTES - 53 SECONDS EAST, A DISTANCE OF 247.87 FEET TO A POINT, RUNNING THENCE;
2. WITH A CURVE TURNING TO THE RIGHT ALONG SAID SOUTHERLY LINE OF ROUTE 102 WITH AN ARC LENGTH OF 158.43 FEET, A RADIUS OF 1074.38 FEET, HAVING AN INTERNAL ANGLE OF 08 DEGREES - 26 MINUTES - 55 SECONDS AND A CHORD BEARING OF NORTH 87 DEGREES - 31 MINUTES - 20 SECONDS EAST AND CHORD LENGTH OF 158.28 FEET, TO A RHODE ISLAND HIGHWAY BOUND FOUND, RUNNING THENCE;
3. WITH THE SOUTHERLY LINE OF SAID ROUTE 102, SOUTH 88 DEGREES - 19 MINUTES - 12 SECONDS EAST, A DISTANCE OF 182.36 FEET TO A RHODE ISLAND HIGHWAY BOUND FOUND, RUNNING THENCE;
4. WITH THE SOUTHERLY LINE OF SAID ROUTE 102, AT AN INTERIOR ANGLE OF 108 DEGREES - 07 MINUTES - 23 SECONDS AT A BEARING SOUTH 88 DEGREES - 22 MINUTES - 35 SECONDS EAST, A DISTANCE OF 278.47 FEET TO AN IRON PIPE FOUND AT CORNER IN COMMON WITH LOT 7, BLOCK 1, MAP 37 (N/F LANDS OF MATHEW B. ARMSTRONG), RUNNING THENCE;
5. ALONG THE DIVIDING BETWEEN SAID LOT 7 AND LOT 5 AT AN INTERIOR ANGLE OF 95 DEGREES - 37 MINUTES - 00 SECONDS AT A BEARING OF SOUTH 03 DEGREES - 59 MINUTES - 35 SECONDS EAST, A DISTANCE OF 254.00 FEET TO AN IRON PIPE FOUND, RUNNING THENCE;
6. ALONG THE DIVIDING BETWEEN SAID LOT 7 AND LOT 5 AT AN INTERIOR ANGLE OF 264 DEGREES - 23 MINUTES - 00 SECONDS AT A BEARING OF SOUTH 88 DEGREES - 22 MINUTES - 35 SECONDS EAST, A DISTANCE OF 175.00 FEET TO AN IRON PIPE FOUND 0.4 FEET EAST OF A CORNER IN COMMON WITH LOT 6, BLOCK 1, MAP 37 (N/F LANDS OF BRIAN T. MAUHS), RUNNING THENCE;
7. ALONG THE DIVIDING LINE BETWEEN SAID LOT 6 AND LOT 5 AT AN INTERIOR ANGLE OF 178 DEGREES - 50 MINUTES - 47 SECONDS AT A BEARING OF SOUTH 87 DEGREES - 13 MINUTES - 23 SECONDS EAST, A DISTANCE OF 322.10 FEET TO POINT AT A CORNER IN COMMON WITH LOT 3, BLOCK 5, MAP 37 (N/F LANDS OF DAVID E. PAYETTE & JENNIFER W. PAYETTE), RUNNING THENCE;
8. ALONG THE DIVIDING LINE BETWEEN SAID LOT 3 & LOT 4, BLOCK 5, MAP 37 (N/F LANDS OF MARVIN M. PELSER, JR. & SHARON A. PELSER) WITH LOT 5 AT AN INTERIOR ANGLE OF 101 DEGREES - 00 MINUTES - 58 SECONDS AT A BEARING OF SOUTH 08 DEGREES - 14 MINUTES - 20 SECONDS EAST, A DISTANCE OF 369.11 FEET TO A POINT AT A CORNER IN COMMON WITH LOT 5, BLOCK 5, MAP 37 (N/F LANDS OF PATRICIA HOWLAND & MATTHEW HOWLAND), RUNNING THENCE;
9. ALONG THE DIVIDING LINE BETWEEN SAID LOT 5, BLOCK 5, MAP 37 AND LOT 5, BLOCK 1, MAP 37 AT AN INTERIOR ANGLE OF 223 DEGREES - 53 MINUTES - 43 SECONDS AT A BEARING OF SOUTH 52 DEGREES - 08 MINUTES - 03 SECONDS EAST, A DISTANCE OF 391.14 FEET TO A POINT 0.7 FEET WEST OF A GRANITE BOUND FOUND AT A CORNER IN COMMON WITH LOT 6, BLOCK 5, MAP 37 (N/F LANDS OF PAUL R. STORTI & CHARLENE M. STORTI), RUNNING THENCE;
10. ALONG THE DIVIDING LINE BETWEEN SAID LOT 6 AND LOT 5 AT AN INTERIOR ANGLE OF 120 DEGREES - 11 MINUTES - 28 SECONDS AT A BEARING OF SOUTH 07 DEGREES - 40 MINUTES - 29 SECONDS EAST, A DISTANCE OF 218.00 FEET TO A GRANITE BOUND FOUND AT CORNER IN COMMON WITH LOT 14, BLOCK 5, MAP 37 (N/F LANDS OF CRAIG ALEN SWANSON), RUNNING THENCE;
11. ALONG THE DIVIDING LINE BETWEEN SAID LOT 14 AND LOT 5 AT AN INTERIOR ANGLE OF 79 DEGREES - 27 MINUTES - 17 SECONDS AT A BEARING OF NORTH 71 DEGREES - 48 MINUTES - 48 SECONDS WEST, A DISTANCE OF 80.16 FEET TO A GRANITE BOUND FOUND AT A CORNER IN COMMON WITH SAID LOT 14, RUNNING THENCE;
12. ALONG THE DIVIDING LINE BETWEEN SAID LOT 14, LOT 15, BLOCK 5, MAP 37 (N/F LANDS OF THRESA C. DONOVAN & WILLIAM G. DONOVAN), & LOT 16, BLOCK 5, MAP 37 (N/F LANDS OF MARK F. MONAHAN) WITH LOT 5 AT AN INTERIOR ANGLE OF 256 DEGREES - 14 MINUTES - 34 SECONDS AT A BEARING OF SOUTH 31 DEGREES - 58 MINUTES - 38 SECONDS WEST, A DISTANCE OF 936.00 FEET TO A GRANITE BOUND FOUND AT A CORNER IN COMMON WITH SAID LOT 16, RUNNING THENCE;
13. ALONG THE DIVIDING LINE BETWEEN SAID LOT 16 & LOT 16, BLOCK 1, MAP 37 (N/F LANDS OF PATRICIA M. MASTORS REVOCABLE TRUST) AT AN INTERIOR ANGLE OF 121 DEGREES - 00 MINUTES - 00 SECONDS AT A BEARING OF NORTH 89 DEGREES - 01 MINUTES - 22 SECONDS WEST, A DISTANCE OF 1058.43 FEET TO A GRANITE BOUND FOUND AT A CORNER IN COMMON WITH LOT 14, BLOCK 1, MAP 37 (N/F LANDS OF NICOLA RAINONE, JR. & KATHLEEN S. RAINONE), RUNNING THENCE;
14. ALONG THE DIVIDING LINE BETWEEN SAID LOT 14 AND LOT 5 AT AN INTERIOR ANGLE OF 128 DEGREES - 37 MINUTES - 20 SECONDS AT A BEARING OF NORTH 37 DEGREES - 38 MINUTES - 42 SECONDS WEST, A DISTANCE OF 78.96 FEET TO A POINT AT A CORNER IN COMMON WITH LOT 9, BLOCK 1, MAP 37 (N/F LANDS OF STEPHEN P. MATTSCHECK), THENCE THE FOLLOWING THREE COURSES ALONG THE DIVIDING LINE BETWEEN LOT 9 AND LOT 5;
15. WITH AN INTERIOR ANGLE OF 137 DEGREES - 23 MINUTES - 32 SECONDS AT A BEARING OF NORTH 04 DEGREES - 57 MINUTES - 45 SECONDS EAST, A DISTANCE OF 126.30 FEET TO A DRILL HOLE FOUND, RUNNING THENCE;
16. WITH AN INTERIOR ANGLE OF 178 DEGREES - 27 MINUTES - 40 SECONDS AT A BEARING OF NORTH 06 DEGREES - 30 MINUTES - 06 SECONDS EAST, A DISTANCE OF 112.36 FEET TO A POINT, RUNNING THENCE;
17. WITH AN INTERIOR ANGLE OF 190 DEGREES - 54 MINUTES - 50 SECONDS AT A BEARING OF NORTH 04 DEGREES - 24 MINUTES - 44 SECONDS WEST, A DISTANCE OF 89.51 FEET TO A POINT AT A CORNER IN COMMON WITH LOT 8, BLOCK 1, MAP 37 (N/F LANDS OF STEPHEN R. MATTSCHECK), RUNNING THENCE ALONG THE DIVIDING LINE BETWEEN SAID LOT 8 AND LOT 5 THE FOLLOWING 12 COURSES;
18. WITH AN INTERIOR ANGLE OF 179 DEGREES - 57 MINUTES - 47 SECONDS AT A BEARING OF NORTH 04 DEGREES - 28 MINUTES - 57 SECONDS WEST, A DISTANCE OF 126.56 FEET TO A POINT, RUNNING THENCE;
19. WITH AN INTERIOR ANGLE OF 177 DEGREES - 48 MINUTES - 40 SECONDS AT A BEARING OF NORTH 02 DEGREES - 15 MINUTES - 37 SECONDS WEST, A DISTANCE OF 182.36 FEET TO A DRILL HOLE FOUND, RUNNING THENCE;
20. WITH AN INTERIOR ANGLE OF 175 DEGREES - 51 MINUTES - 40 SECONDS AT A BEARING OF NORTH 01 DEGREES - 52 MINUTES - 43 SECONDS EAST, A DISTANCE OF 101.11 FEET TO A POINT, RUNNING THENCE;
21. WITH AN INTERIOR ANGLE OF 179 DEGREES - 05 MINUTES - 30 SECONDS AT A BEARING OF NORTH 02 DEGREES - 47 MINUTES - 13 SECONDS EAST, A DISTANCE OF 145.39 FEET TO A POINT, RUNNING THENCE;
22. WITH AN INTERIOR ANGLE OF 181 DEGREES - 55 MINUTES - 30 SECONDS AT A BEARING OF NORTH 00 DEGREES - 51 MINUTES - 43 SECONDS EAST, A DISTANCE OF 138.35 FEET TO A POINT, RUNNING THENCE;
23. WITH AN INTERIOR ANGLE OF 184 DEGREES - 27 MINUTES - 00 SECONDS AT A BEARING OF NORTH 03 DEGREES - 35 MINUTES - 17 SECONDS WEST, A DISTANCE OF 156.58 FEET TO A POINT, RUNNING THENCE;
24. WITH AN INTERIOR ANGLE OF 179 DEGREES - 01 MINUTES - 15 SECONDS AT A BEARING OF NORTH 02 DEGREES - 38 MINUTES - 32 SECONDS WEST, A DISTANCE OF 210.25 FEET TO A POINT, RUNNING THENCE;
25. WITH AN INTERIOR ANGLE OF 99 DEGREES - 41 MINUTES - 20 SECONDS AT A BEARING OF NORTH 77 DEGREES - 42 MINUTES - 08 SECONDS EAST, A DISTANCE OF 50.10 FEET TO A POINT, RUNNING THENCE;
26. WITH AN INTERIOR ANGLE OF 258 DEGREES - 32 MINUTES - 35 SECONDS AT A BEARING OF NORTH 00 DEGREES - 50 MINUTES - 27 SECONDS WEST, A DISTANCE OF 68.10 FEET TO A POINT, RUNNING THENCE;
27. WITH AN INTERIOR ANGLE OF 154 DEGREES - 09 MINUTES - 35 SECONDS AT A BEARING OF NORTH 24 DEGREES - 59 MINUTES - 58 SECONDS WEST, A DISTANCE OF 30.67 FEET TO A POINT, RUNNING THENCE;
28. WITH AN INTERIOR ANGLE OF 243 DEGREES - 46 MINUTES - 00 SECONDS AT A BEARING OF NORTH 38 DEGREES - 46 MINUTES - 02 SECONDS WEST, A DISTANCE OF 120.20 FEET TO A POINT, RUNNING THENCE;
29. WITH AN INTERIOR ANGLE OF 145 DEGREES - 02 MINUTES - 15 SECONDS AT A BEARING OF NORTH 03 DEGREES - 48 MINUTES - 17 SECONDS WEST, A DISTANCE OF 174.50 FEET TO A POINT WITH AN INTERIOR ANGLE OF 92 DEGREES - 53 MINUTES - 50 SECONDS, WHICH IS THE POINT OF BEGINNING.

CONTAINING 2,487,222 SQUARE FEET, 57.099 ACRES

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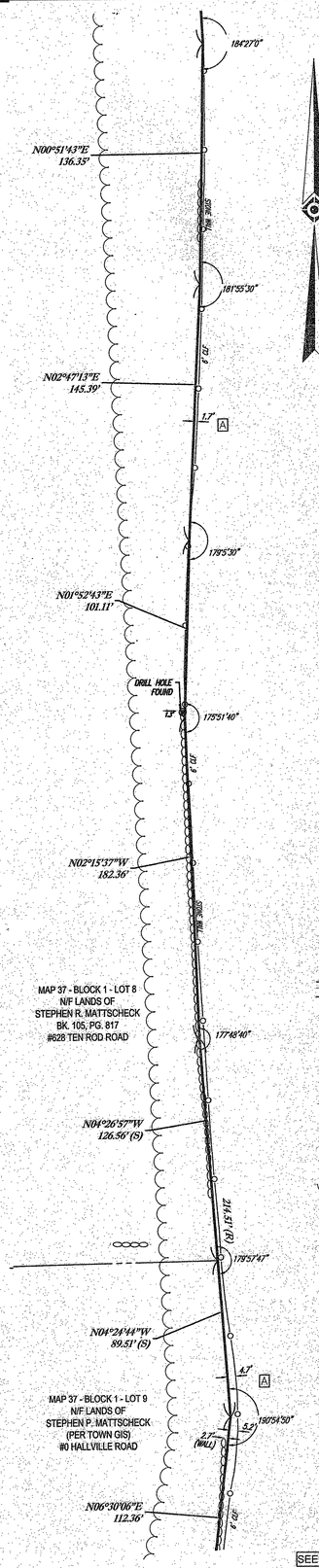
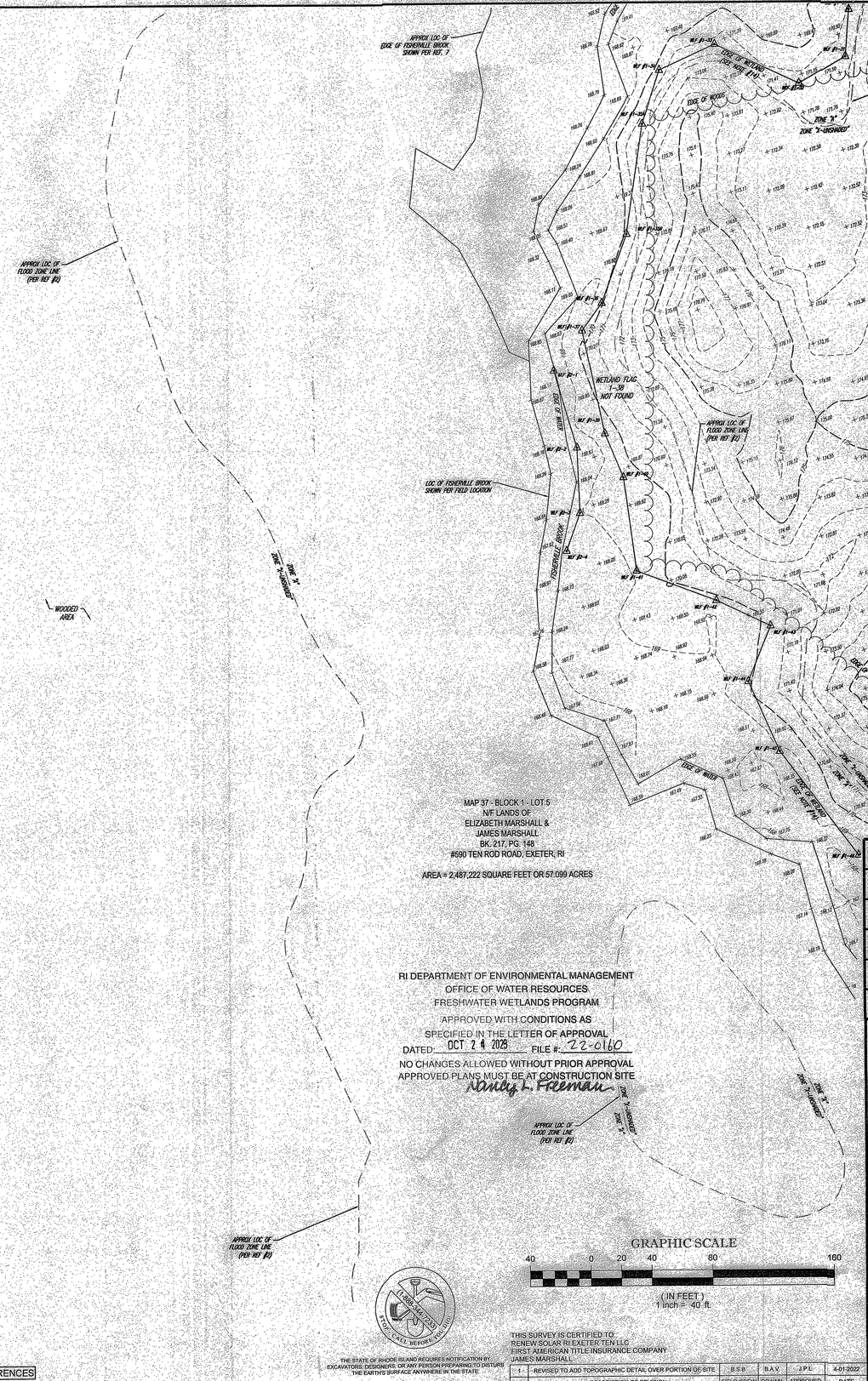


LEGEND

124 / 125	EXISTING CONTOUR
× 123.45	EXISTING SPOT ELEVATION
× TC 123.45	EXISTING TOP OF CURB ELEVATION
× G 122.53	EXISTING GROUND ELEVATION
× TW 123.45	EXISTING TOP OF WALL ELEVATION
× BW 122.95	EXISTING BOTTOM OF WALL ELEVATION
× 122.95	EXISTING SPOT GRADE ELEVATION
OH	OVERHEAD WIRES
UP / GW	UTILITY POLE / GUY WIRE
	METAL GUIDE RAIL
CB	CATCH BASIN OR INLET
	TREE LINE
	TREE & TRUNK SIZE
WF	WETLAND FLAG & NO.
BLDG	BUILDING
BFPA	BUILDING FOOTPRINT AREA
RIHB	RHODE ISLAND HIGHWAY BOUND FOUND
CLF	CHAIN LINK FENCE
EOP	EDGE OF PAVEMENT
1.0'	OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE
(S)	SURVEY DIMENSION
(D)	DEED DIMENSION
7	TITLE REPORT EXCEPTION
A	POSSIBLE ENCROACHMENT LOCATION

SEE SHEET 6 OF 6 FOR NOTES
SEE SHEET 1 OF 6 FOR OVERALL BOUNDARY & REFERENCES



MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 24 2020 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

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DIG SAFE! CALL BEFORE YOU DIG 1-800-DIG-SAFE

THIS SURVEY IS CERTIFIED TO:
RENEW SOLAR RI EXETER TEN LLC
FIRST AMERICAN TITLE INSURANCE COMPANY
JAMES MARSHALL

NO	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
1.	REVISED TO ADD TOPOGRAPHIC DETAIL OVER PORTION OF SITE	B.S.B.	B.A.V.	J.P.L.	4-01-2022

FIELD DATE:
3-23-2020
12-13-2021
2-21-2020
FIELD BOOK(S):
21-16 MA
21-MA
20-17 MA
FIELD BOOK PG.
83
146-150
23-24
FIELD CREW:
B.S.B.
DRAWN:
B.A.V.
REVIEWED:
S.P.P.

ALTA/NSPS LAND TITLE SURVEY
RENEW SOLAR RI EXETER TEN LLC
590 TEN ROD ROAD
MAP 37, BLOCK 1, LOT 5
TOWN OF EXETER, WASHINGTON COUNTY
STATE OF RHODE ISLAND

CONTROL POINT ASSOCIATES, INC.
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
508.948.3000 508.948.3003 FAX
WWW.CPASURVEY.COM
ALBANY, NY 518-217-5010
CHALFONT, PA 215-712-9800
HAUPPAUGE, NY 631-580-3645
MANHATTAN, NY 646-780-9411
MT. LAUREL, NJ 609-857-2099
WARREN, NJ 908-668-0099

APPROVED: J.P.L. | DATE: 12-21-2020 | SCALE: 1" = 40' | FILE NO.: 03-200321-00 | DWG. NO.: 24 OF 26

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON DECEMBER 31, 2020 AS FOLLOWS:

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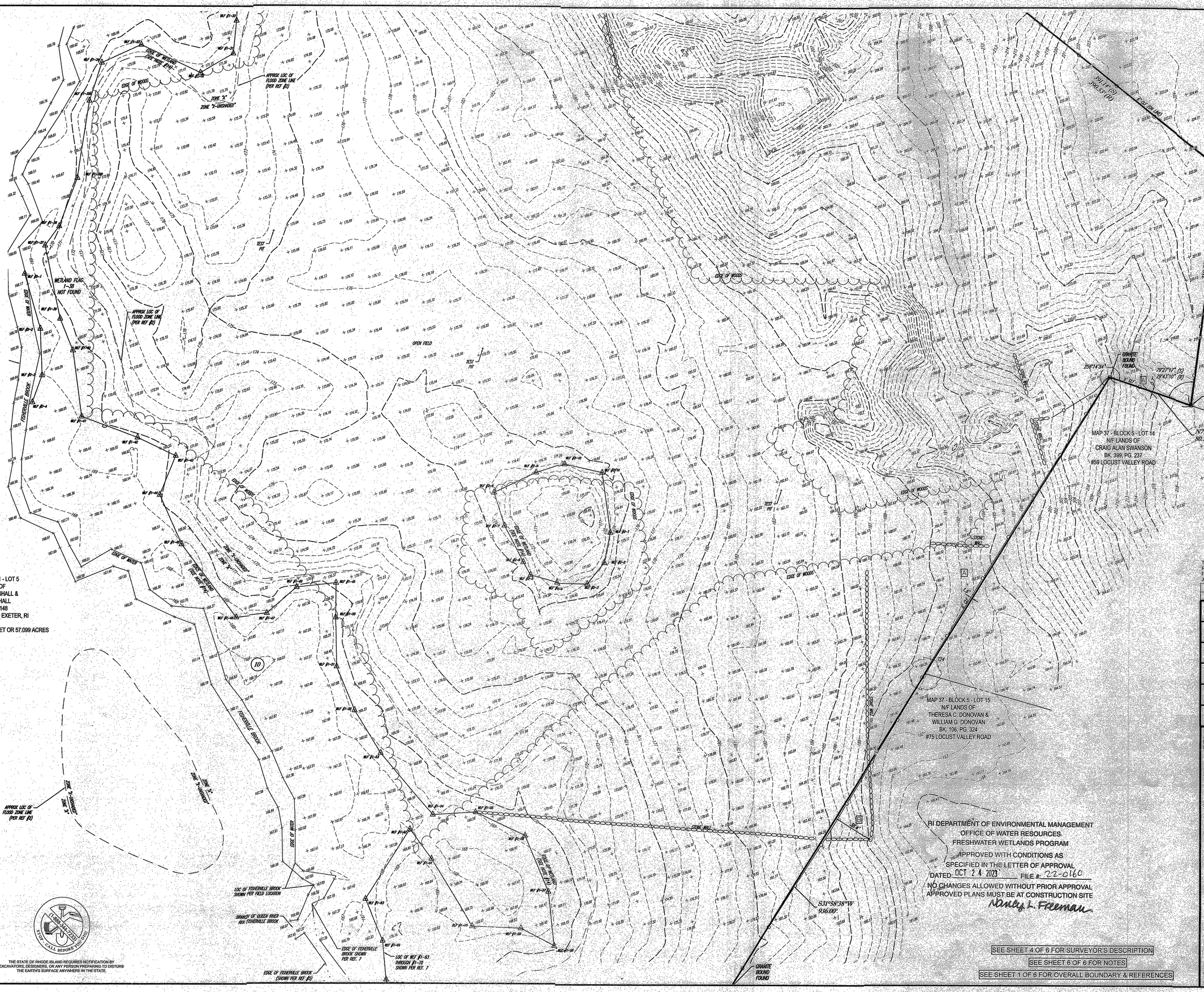
JOHN P. LYNCH
No. 1925
PROFESSIONAL LAND SURVEYOR

JOHN P. LYNCH
RHODE ISLAND PROFESSIONAL LAND SURVEYOR #1925
CERTIFICATE OF AUTHORIZATION NUMBER A350

DATE: 4-01-2022



LEGEND

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A	POSSIBLE ENCROACHMENT LOCATION

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

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JAMES MARSHALL

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FIELD DATE: 3-23-2022, 12-13-2021, 12-1-2020
FIELD BOOK NO: 21-16 MA, 21-MA, 20-17 MA
FIELD BOOK PG: 83, 148-150, 23-24
FIELD CREW: B.S.B.
DRAWN: B.A.V.
REVIEWED: S.P.P.
APPROVED: J.P.L.
DATE: 12-21-2020
SCALE: 1" = 40'
FILE NO: 03-200321-00
DWG. NO: 25 OF 26

ALTA/NSPS LAND TITLE SURVEY
RENEW SOLAR RI EXETER TEN LLC
590 TEN ROD ROAD
MAP 37, BLOCK 1, LOT 5
TOWN OF EXETER, WASHINGTON COUNTY
STATE OF RHODE ISLAND

CONTROL POINT ASSOCIATES, INC.
352 TURNPIKE ROAD
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED OCT 24 2023 FILE #: 22-0160
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Nancy L. Freeman

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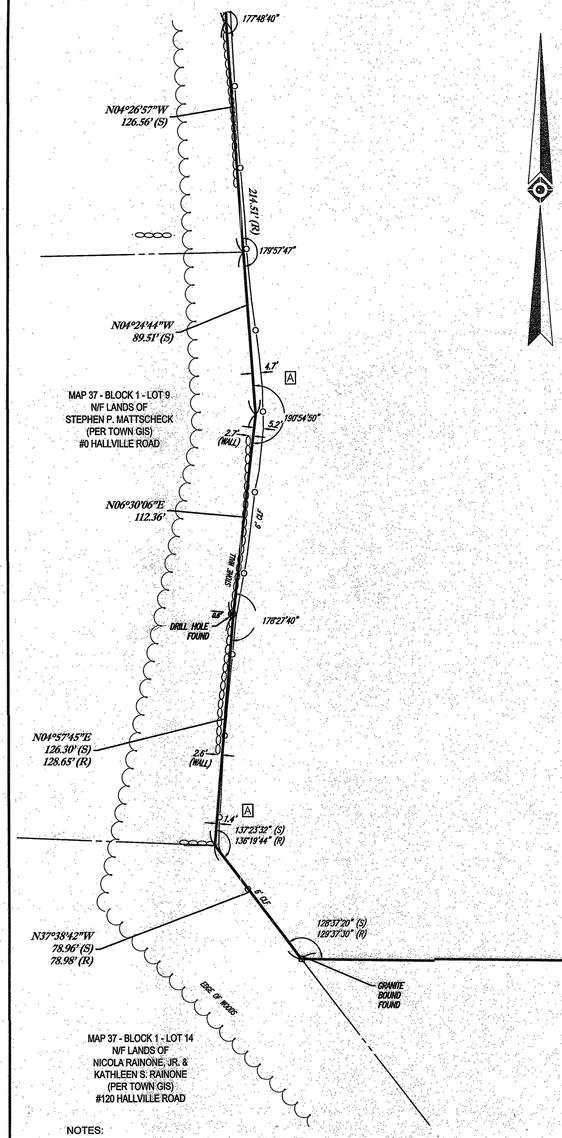

RHODE ISLAND STATE PLANE COORDINATE SYSTEM - NAD 83

LEGEND

124 / 125	EXISTING CONTOUR
× 123.45	EXISTING SPOT ELEVATION
× TC 123.45	EXISTING TOP OF CURB ELEVATION
× G. 122.95	EXISTING GROUND ELEVATION
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BLDG	BUILDING
BFPA	BUILDING FOOTPRINT AREA
RIHB	RHODE ISLAND HIGHWAY BOUND FOUND
CLF	CHAIN LINK FENCE
EOP	EDGE OF PAVEMENT
1.0'	OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE
(S)	SURVEY DIMENSION
(D)	DEED DIMENSION
7	TITLE REPORT EXCEPTION
A	POSSIBLE ENCROACHMENT LOCATION

NOTES:

1. PROPERTY KNOWN AS LOT 5 AS SHOWN ON THE TOWN OF EXETER, WASHINGTON COUNTY, STATE OF RHODE ISLAND MAP NO. 37.
2. AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES (7)
3. THE LOCATION OF UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN. UTILITY INFORMATION SHOWN IS LIMITED TO VISIBLE UTILITY HARDWARE AND UTILITY MARKOUTS AT THE SURFACE AND DOES NOT INCLUDE SUCH ITEMS AS SUBSURFACE PIPING, UTILITY LINES, ETC. BEFORE ANY EXCAVATION IS TO BEGIN, UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.
4. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
5. THIS SURVEY WAS PREPARED WITH REFERENCE TO A COMMITMENT FOR TITLE INSURANCE PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, HAVING A COMMITMENT NO. 3020-892728R2, WITH AN EFFECTIVE DATE OF JULY 2, 2020, WHERE THE FOLLOWING SURVEY RELATED EXCEPTIONS APPEAR IN SCHEDULE B - PART II:

   GENERAL EXCEPTIONS 1 THRU 6 ARE NOT SURVEY RELATED AND HAVE NOT BEEN COMMENTED ON AS A PART OF THIS SURVEY.

   (7) THE EXACT ACREAGE OR SQUARE FOOTAGE BEING OTHER THAN AS STATED SCHEDULE A OR THE PLAN(S) THEREIN REFERRED TO - **SEE NOTE #2**

   (8) WATER RIGHTS RESERVED IN DEED RECORDED IN BOOK 15 AT PAGE 283. - **SPECIFIC LOCATION OF DITCH AND MEADOW IS UNKNOWN. DESCRIPTION OF STREAM IN DEED IS VAGUE. THE LOCATION CANNOT BE DETERMINED FROM THE RECORD DOCUMENT.**

   (9) RESTRICTIONS AS SET FORTH IN DEED RECORDED IN BOOK 30 AT PAGE 157. - **EASEMENT IS BLANKET IN NATURE.**

   (10) RIPARIAN RIGHTS OF OTHERS IN AND TO ANY BROOKS OR STREAMS CROSSING LOCUS. - **FISHERVILLE BROOK AND UNNAMED STREAM SHOWN.**

   (11) FARM, FOREST AND OPEN SPACE TAXATION LIST RECORDED IN BOOK 83 AT PAGE 683. - **LOT 5 INCLUDED ON LIST.**

   (13) MEMORANDUM OF SOLAR SITE LEASE AGREEMENT BY AND BETWEEN JAMES MARSHALL AND RENEW SOLAR RI EXETER TEN, LLC DATED JULY 18, 2018 AND RECORDED ON OCTOBER 3, 2018 IN BOOK 624, PAGE 280. - **BLANKET IN NATURE.**

   (14) TOWN OF EXETER RECORD OF DEXISION - CONDITIONAL MASTER PLAN APPROVAL DATED JANUARY 22, 2019 AND RECORDED IN BOOK 529, PAGE 193. - **SOLAR APPLICATION BLANKET IN NATURE.**

   (15) TOWN OF EXETER, RI ZONING DECISION DATED MARCH 25, 2019 AND RECORDED ON APRIL 9, 2019 AT 2:22 P.M. IN BOOK 531, PAGE 280. - **BLANKET IN NATURE.**

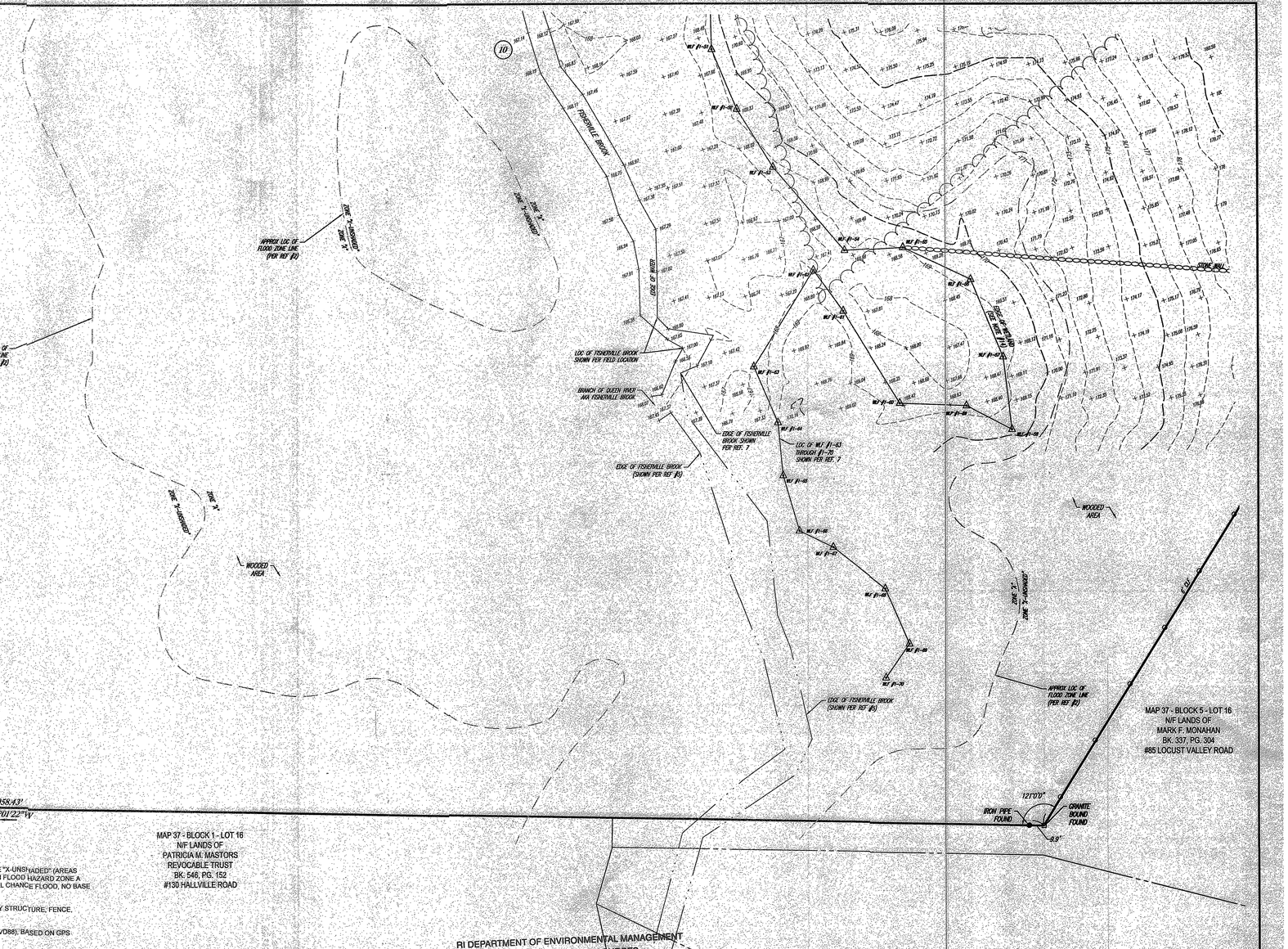
NOTES (CONTINUED):

6. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE "X-UNSHADED" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND IN FLOOD HAZARD ZONE A (SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, NO BASE FLOOD ELEVATIONS DETERMINED) PER REF. #2.
7. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
8. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS).
   TEMPORARY BENCH MARKS SET:

   TBM-A: CONTROL POINT 2, IRON ROD WITH CAP SET AT ELEVATION= 177.16'

   TBM-B: CONTROL POINT 19, IRON ROD WITH CAP SET AT ELEVATION = 180.09'

   PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.
9. THE PROPERTY DESCRIBED IN THE TITLE COMMITMENT AS EXHIBIT "A" IS THE SAME AS SHOWN ON THE SURVEY.
10. SITE WAS OCCUPIED BY RESIDENTIAL AND OTHER OUT BUILDINGS AT THE TIME OF THE SURVEY, ALSO, OPEN FIELDS, AND MIXED WOODS.
11. AT TIME OF SURVEY THERE ARE NO KNOWN RECENTLY COMPLETED OR KNOWN PROPOSED CHANGES TO THE STREET RIGHT-OF-WAYS SHOWN ON THIS SURVEY.
12. AT TIME OF SURVEY THERE WERE NO CEMETERIES, GRAVESITES, AND/OR BURIAL GROUNDS OBSERVED OR NOTED IN RECORD DOCUMENTS OBTAINED OR PROVIDED.
13. AT TIME OF SURVEY THERE IS NO OBSERVED EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.
14. WETLANDS WERE DELINEATED BY OTHERS AND FIELD LOCATED BY CONTROL POINT ON DECEMBER 13, 2021.
15. THE PROPERTY HAS DIRECT ACCESS TO TEN ROD ROAD AT TWO POINTS, A DIRT/GRAVEL DRIVEWAY THROUGH A WOOD GATE NEAR THE NORTHWESTERLY PROPERTY CORNER AND A DIRT/GRAVEL PATH NEAR THE NORTHEASTERLY PROPERTY CORNER. BOTH POINTS OF ACCESS ARE SHOWN.
16. HALLVILLE ROAD IS 960± FEET WESTERLY OF THE NORTHWESTLY PROPERTY CORNER (PER GOOGLE EARTH) AND IS THE NEAREST INTERSECTING PUBLIC STREET TO THE SURVEYED PROPERTY.
17. AT TIME OF SURVEY NO PARKING SPACES WERE OBSERVED.
18. PLANIMETRIC AND TOPOGRAPHIC FEATURES COMPILED BY CONTROL POINT ASSOCIATES, INC., UTILIZING PHOTOGRAMMETRIC METHODS FROM UAV PHOTOGRAPHY. UAV PHOTOGRAPHY PERFORMED BY CONTROL POINT ASSOCIATES, INC., ON MAY 19, 2021 AND DECEMBER 7, 2021, WITH A PHOTO SCALE OF 0.75 CM GSD.
19. PHOTOGRAMMETRIC MAPPING HAS BEEN COMPLIED IN ACCORDANCE WITH PROCEDURES THAT HAVE BEEN DEMONSTRATED TO COMPLY WITH THE AMERICAN SOCIETY OF PHOTOGRAMMETRY AND REMOTE SENSING (ASPRS) CLASS 1 STANDARD FOR A HORIZONTAL MAPPING SCALE OF 1" = 40' AND A CONTOUR INTERVAL OF 1'.
20. AERIAL CONTROL PROVIDED BY CONTROL POINT ASSOCIATES, INC., UTILIZING PROPELLER AEROPOINTS ON MAY 19, 2021 AND DECEMBER 7, 2021.



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: OCT 2 4 2023 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Wendy L. Freeman

THE STATE OF RHODE ISLAND REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.
1-888-DIG-RITE (1-888-344-7483) TOLL FREE BEFORE YOU DIG

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

SEE SHEET 1 OF 6 FOR OVERALL BOUNDARY & REFERENCES
SEE SHEET 4 OF 6 FOR SURVEYOR'S DESCRIPTION

THIS SURVEY IS CERTIFIED TO:
RENEW SOLAR RI EXETER TEN LLC
FIRST AMERICAN TITLE INSURANCE COMPANY
JAMES MARSHALL

No.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
1	REVISED TO ADD TOPOGRAPHIC DETAIL OVER PORTION OF SITE	B.S.B.	B.A.V.	J.P.L.	4-01-2022

FIELD DATE: 1-23-2021, 12-13-2021, 12-1-2020
FIELD BOOK NO: 21-15 MA, 21-MC, 20-17 MA
FIELD BOOK PG: 93-1, 149-150, 23-24
FIELD CREW: B.S.B.
DRAWN: B.A.V.
REVIEWED: S.P.P.

ALTA/NSPS LAND TITLE SURVEY
RENEW SOLAR RI EXETER TEN LLC
590 TEN ROD ROAD
MAP 37, BLOCK 1, LOT 5
TOWN OF EXETER, WASHINGTON COUNTY
STATE OF RHODE ISLAND

CONTROL POINT ASSOCIATES, INC.
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
508.948.3080 508.948.3083 FAX
WWW.CPASURVEY.COM
ALBANY, NY 518-217-5010
CHALFONT, PA 215-712-9800
HAUPPAUGE, NY 631-580-2545
MANHATTAN, NY 646-780-0411
MT LAUREL, NJ 609-857-2099
WARREN, NJ 908-668-0099

APPROVED	DATE	SCALE	FILE NO.	DWG. NO.
J.P.L.	12-21-2020	1" = 40'	03-200321-00	26 OF Z6

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON DECEMBER 31, 2020 AS FOLLOWS:

1. TYPE OF BOUNDARY SURVEY — MEASUREMENT SPECIFICATION
   COMPREHENSIVE BOUNDARY SURVEY — I
2. OTHER TYPE OF SURVEY — MEASUREMENT SPECIFICATION
   DATA ACCUMULATION SURVEY — III
   (PLANIMETRIC SURVEY, TOPOGRAPHIC SURVEY)
   VERTICAL CONTROL STANDARD — V-3
   TOPOGRAPHIC SURVEY ACCURACY — T-2
3. THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THIS PLAN IS AS FOLLOWS:
   PREPARE ALTA/NSPS LAND TITLE SURVEY AND OBTAIN TOPOGRAPHIC AND PLANIMETRIC INFORMATION TO BE UTILIZED FOR CONVEYANCE OF THE PROPERTY AND AS A BACKGROUND DOCUMENT FOR SITE PLAN PREPARATION

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE "2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS", JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 7(a), 7(b)(1), 7(c), 8, 9, 13, 14 AND 15 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON DECEMBER 1, 2020, UPDATED DECEMBER 13, 2021 & MARCH 23, 2022.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR BLUE INK SEAL

JOHN P. LYNCH
No. 1925
PROFESSIONAL LAND SURVEYOR

JOHN P. LYNCH
DATE: 4-01-2022
RHODE ISLAND PROFESSIONAL LAND SURVEYOR #1925
CERTIFICATE OF AUTHORIZATION NUMBER A350

RI Environmental Management
MAY 05 2022
Office of Water Resources

EXETER TEN SOLAR
RIDEM PRELIMINARY DETERMINATION

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

PROPERTY:

590 TEN ROD ROAD
EXETER, RI 02822
AP 37 BLOCK 1 LOT 5

PROPERTY OWNER:

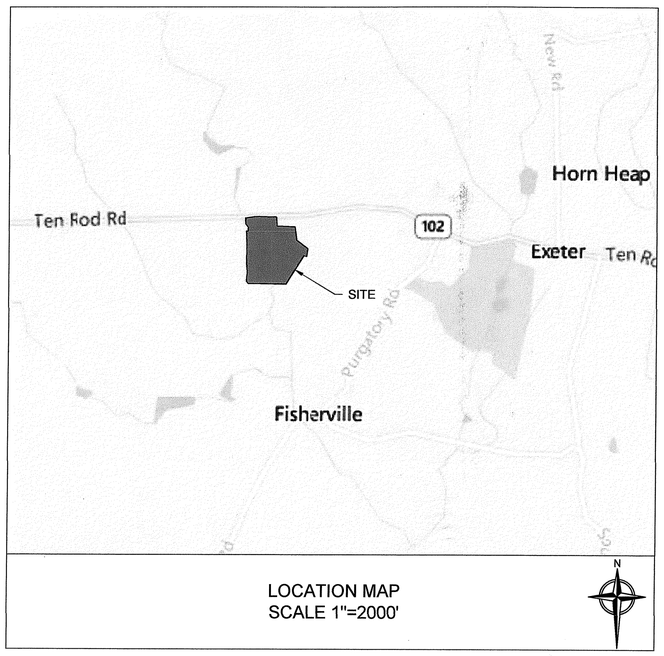
JAMES MARSHALL
590 TEN ROD ROAD
EXETER, RI 02822

PREPARED FOR:

RENEW SOLAR RI EXETER TEN, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

MAY 2, 2022

PREPARED BY:



LOCATION MAP
SCALE 1"=2000'

ess group
environmental consulting
& engineering services

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

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2022.05.02
18:08:37
-04'00'

DRAWING INDEX

Drawing Number	Sheet Title
1	COVER
2	NOTES
3	NOTES
4	SITE OVERVIEW PLAN
5	LAYOUT AND MATERIALS PLAN
6	LAYOUT AND MATERIALS PLAN
7	GRADING AND DRAINAGE PLAN
8	GRADING AND DRAINAGE PLAN
9	EROSION AND SEDIMENT CONTROL PLAN
10	EROSION AND SEDIMENT CONTROL PLAN
11	ACCESS ROAD PROFILE
12	DETAILS
13	DETAILS
14	DETAILS
15	DETAILS
16	DETAILS
ATTACHMENTS	
"ALTA/NSPS LAND TITLE SURVEY", DATED APRIL 1, 2022, CONTROL POINT ASSOCIATES, INC.	

FOR PERMITTING ONLY

RIDEM COPY

GENERAL NOTES:

1. BASE PLAN: "ALTA/NSPS LAND TITLE SURVEY", DATED APRIL 1, 2022, CONTROL POINT ASSOCIATES, INC.
2. THE VERTICAL DATUM SHOWN HEREON REFERENCES NAVD88, IN FEET. THE HORIZONTAL DATUM SHOWN HEREON REFERENCES NAD83 RHODE ISLAND STATE PLANE, IN US SURVEY FEET.
3. ENGINEER'S ENDORSEMENT IS FOR PERMITTING PURPOSES ONLY. PLANS NOT INTENDED FOR CONSTRUCTION.
4. WETLANDS WERE DELINEATED BY TRC COMPANIES IN 2018 AND SEPTEMBER 2021.
5. A PORTION OF THE SITE IS LOCATED WITHIN A RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NATURAL HERITAGE AREA. NATURAL HERITAGE AREA BOUNDARY OBTAINED FROM RHODEMAP, RIGIS, AND RIDEM IN APRIL 2022. NATURAL HERITAGE AREA BOUNDARY LOCATIONS ARE APPROXIMATE.

DOCUMENT USE:

1. THESE PLANS AND THE CORRESPONDING CAD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE PREPARED BY ESS GROUP, LLC., 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, LLC. 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, LLC.
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.

CONSTRUCTION NOTES:

1. NO CHANGES ARE TO BE MADE UNLESS AUTHORIZED BY THE OWNER.
2. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING, UNDERSTANDING, AND COMPLYING WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, PERMIT CONDITIONS, ETC.
3. ALL PRODUCTS TO BE INSTALLED PER MANUFACTURER'S OR DISTRIBUTOR'S INSTRUCTIONS. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO INSTALLATION.
4. UNLESS OTHERWISE NOTED, ALL WORK SHALL CONFORM TO RIDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2004 EDITION AMENDED 2018, WITH ALL REVISIONS AND R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.
5. REFER TO CONSTRUCTION RECOMMENDATIONS INCLUDED IN THE "GEOTECHNICAL ENGINEERING REPORT" PREPARED BY TERRACON CONSULTANTS, INC., DATED JULY 5, 2018 AS REVISED.
6. 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 THE CONTRACTOR'S EXPENSE ANY ITEMS DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK.
7. 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.
8. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING AND GENERATED RUBBLE, DEBRIS AND OTHER DELETERIOUS MATERIAL IN ACCORDANCE WITH THE SPECIFICATIONS AND ALL APPLICABLE CODES AND REGULATIONS.
9. THE CONTRACTOR SHALL MAINTAIN THE PROJECT SITE IN A SAFE AND CLEAN CONDITION FOR THE DURATION OF CONSTRUCTION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
11. 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.
12. 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.
13. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
14. THE CONTRACTOR SHALL USE DESIGNATED LOCATIONS WITHIN THE ESTABLISHED LIMITS OF DISTURBANCE TO ACCESS THE SITE.

CONSTRUCTION SEQUENCE NOTES:

1. PHASING AND CONSTRUCTION SEQUENCE SHALL BE IMPLEMENTED TO MINIMIZE THE AMOUNT OF EARTH DISTURBANCE AT ANY ONE TIME. EARTH DISTURBANCE ACTIVITIES DURING EACH PHASE OF CONSTRUCTION SHALL BE LIMITED TO A MAXIMUM OF 5 ACRES WITH A COMMON DRAINAGE LOCATION. INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE, BUT NOT MORE THAN FOURTEEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THE AREA HAS TEMPORARILY OR PERMANENTLY CEASED AND PRIOR TO INITIATING LAND DISTURBANCE IN SUBSEQUENT PHASES.
2. WORK ASSOCIATED WITH THE PROJECT IS EXPECTED TO OCCUR IN THE FOLLOWING GENERAL ORDER, THOUGH SOME TASKS MAY OCCUR SIMULTANEOUSLY OR IN A DIFFERENT ORDER BASED ON CONTRACTOR'S MEANS AND METHODS:

2.1. PHASE 1 SITE ACCESS

2.1.1. ERECT OR POST A TWELVE (12) INCH WIDE BY EIGHTEEN (18) INCH LONG WEATHER RESISTANT SIGN WHICH BOLDLY STATES THE RIDEM PERMIT NUMBER. SIGN SHALL NOT BE INSTALLED TO A LIVE TREE.

2.1.2. CLEARLY MARK LIMITS OF DISTURBANCE FOR ALL PHASES.

2.1.3. INSTALL ALL PERIMETER EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES THAT ARE REQUIRED TO BE IN PLACE AND FUNCTIONAL BEFORE ANY SITE WORK 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.

2.1.4. MARK SHADE TREES TO BE CUT FOR APPROVAL.

2.1.5. CLEAR TREES AND SELECTIVELY CUT APPROVED SHADE TREES

2.1.6. CLEAR AND GRUB ONLY AREAS REQUIRED TO COMPLETE THE WORK INCLUDED IN PHASE 1.

2.1.7. INSTALL AND MAINTAIN CONSTRUCTION ENTRANCE AND LAYDOWN AREA.

2.2. PHASE 2 SITE STORMWATER CONTROLS

2.2.1. INSTALL INTERIOR EROSION AND SEDIMENT CONTROLS.

2.2.2. CLEAR AND GRUB ONLY AS NEEDED TO COMPLETE THE WORK INCLUDED IN PHASE 2.

2.2.3. INSTALL TEMPORARY SEDIMENT TRAPS.

2.2.4. INSTALL BASINS.

2.2.5. SPECIAL CARE SHALL BE TAKEN TO PREVENT SEDIMENT-LADEN RUNOFF FROM ENTERING THE BASINS. ANY SEDIMENT DEPOSITED WITHIN THE BASINS OR TRAPPED BY THE FILTER SOCK AND SILT FENCE MUST BE PROMPTLY REMOVED. SEDIMENT-LADEN RUNOFF HAS THE POTENTIAL TO ADVERSELY AFFECT THE INFILTRATION CAPACITY OF UNDERLYING SOILS. IF SEDIMENT IS DEPOSITED INTO THE BASINS THE UNDERLYING SOILS MUST BE EXCAVATED TO REMOVE ANY DEPOSITED SEDIMENT AND SUPPLEMENTED TO RE-ESTABLISH THE INFILTRATION CAPACITY OF THE UNDERLYING SOILS TO THEIR PRE-CONSTRUCTION CONDITION.

2.3. PHASE 3 EQUIPMENT AND FENCE INSTALLATION

2.3.1. CLEAR AND GRUB ONLY AS NEEDED TO COMPLETE THE WORK INCLUDED IN PHASE 3.

2.3.2. GRADE AND PREPARE AREA WITHIN FENCE AS NECESSARY FOR SOLAR ARRAY INSTALLATION.

2.3.3. INSTALL TEMPORARY STABILIZATION.

2.3.4. RESTORE TEMPORARY SEDIMENT TRAPS.

2.3.5. INSTALL PERIMETER FENCE, SOLAR ARRAY, AND ASSOCIATED WORK.

2.3.6. REMOVE AND RESTORE TEMPORARY LAYDOWN AREA BY REMOVING CRUSHED STONE AND FILTER CLOTH AND SUITABLY TILLING AND AMENDING SOILS TO RESTORE INFILTRATION CAPACITY. AERATE ANY EXISTING TURF AREAS THAT HAVE BECOME COMPACTED DURING CONSTRUCTION.

2.4. PHASE 4 FINAL SITE STABILIZATION

2.4.1. PERMANENTLY STABILIZE SITE.

2.4.2. INSPECT, CLEAN, AND REPAIR ALL BASINS AND FOREBAYS.

2.4.3. REMOVE RIDEM PERMIT SIGN, LOD MARKINGS, TEMPORARY POLLUTION PREVENTION MEASURES, AND TEMPORARY EROSION AND SEDIMENT CONTROLS.

2.4.4. COMPLETE FINAL SITE STABILIZATION OF ALL REMAINING DISTURBED AREAS AFTER REMOVAL OF TEMPORARY EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES.

2.4.5. COMPLETE SITE CLEANUP AND RESTORATION.

EROSION & SEDIMENTATION 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 RIPDES CONSTRUCTION GENERAL PERMIT.
2. EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AS SHOWN HEREIN OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES TO PREVENT OFF-SITE TRACKING OF EARTH, SEDIMENT AND DEBRIS. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT TRACKED ONTO PUBLIC RIGHT OF WAYS AT THE END OF EACH DAY.
4. TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. THE ENTRANCE SHALL BE APPROXIMATELY 50 FEET LONG, AND SHALL BE MADE OF CRUSHED STONE CONSISTENT WITH RIDOT MATERIAL SPECIFICATION M.01.09 TABLE I, COLUMN II. THE WIDTH OF THE CONSTRUCTION ENTRANCE SHALL BE EQUAL TO THE WIDTH OF THE PROPOSED SITE ENTRANCE. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO ROADS. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADS SHALL BE REMOVED. DURING WET WEATHER, IT MAY BE NECESSARY TO WASH VEHICLE TIRES AT THESE LOCATIONS PRIOR TO VEHICLES LEAVING THE SITE.
5. PERIMETER SOIL AND EROSION CONTROLS SHALL BE PLACED PRIOR TO ANY CONSTRUCTION ACTIVITIES. 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.
6. ALL TEMPORARY EROSION, RUNOFF, SEDIMENT, AND POLLUTION PREVENTION CONTROL MEASURES SHALL BE INSTALLED BY THE TIME EACH PHASE OF EARTH DISTURBANCE HAS BEGUN.
7. EXISTING PLANTABLE SOIL SHALL BE PRESERVED TO THE MAXIMUM EXTENT FEASIBLE AND AS NECESSARY TO SUPPORT HEALTHY VEGETATION, PROMOTE SOIL STABILIZATION, AND INCREASE STORMWATER INFILTRATION RATES.
8. 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.
9. TEMPORARY STRAW MULCH, WOOD CHIP 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.
10. WOOD CHIP MULCH GENERATED ON-SITE MAY BE APPLIED TO SLOPES 3:1 OR FLATTER FOR TEMPORARY EROSION CONTROL WHEN SOIL AND SITE CONDITIONS ARE SUITABLE FOR SPREADING. ALL MULCH MATERIAL SHALL BE CAPABLE OF BEING APPLIED EVENLY SUCH THAT IT PROVIDES 100% INITIAL SOIL COVERAGE AND ADHERES TO THE SOIL SURFACE, DOES NOT SLIP ON SLOPES WHEN IT RAINS OR IS WATERED, DOES NOT BLOW OFF SITE AND DISSIPATES RAINDROP SPLASH. SPREAD WOOD CHIP MULCH UNIFORMLY RESULTING IN 100% COVERAGE OF DISTURBED SOIL TO BE STABILIZED. SUGGESTED APPLICATION RATE IS 6 CY/1,000 SQ FT. DO NOT SPREAD WOOD CHIPS ON SLOPES SO THICK THAT IT WILL SLIP OR SLUMP.
11. IF SEEDING IS PERFORMED WHERE WOOD CHIPS HAVE BEEN PREVIOUSLY APPLIED, THE WOOD CHIPS SHOULD BE REMOVED OR TILLED INTO THE GROUND AND ADDITIONAL NITROGEN APPLIED PRIOR TO SEEDING. NITROGEN APPLICATION RATE SHALL BE DETERMINED BY SOIL TEST AT TIME OF SEEDING.
12. WHERE SOIL PROTECTION FALLS BELOW 100%, REAPPLY SOIL PROTECTION WITHIN 48 HOURS. DETERMINE THE CAUSE OF THE FAILURE. IF FAILURE WAS THE RESULT OF WIND, CONSIDER APPLYING A TACKIFIER OR NETTING. IF FAILURE WAS CAUSED BY CONCENTRATING WATER, INSTALL ADDITIONAL MEASURES TO CONTROL WATER AND SEDIMENT MOVEMENT, REPAIR EROSION DAMAGE, REAPPLY MULCH WITH ANCHORING OR USE TEMPORARY EROSION CONTROL BLANKETS.
13. 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 (HYDORSEED). 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.
14. 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.
15. ALL DISTURBED OR UNVEGETATED SOIL SHALL HAVE A MINIMUM OF FOUR INCHES OF LOAM (RIDOT M.18.01) OR PLANTABLE SOIL (RIDOT M.18.02) PLACED BEFORE BEING PERMANENTLY SEEDED AND MULCHED AS APPLICABLE. LOAM OR PLANTABLE SOIL FROM AN OFF SITE BORROW SOURCE SHALL BE SAMPLED AND APPROVED FOR USE PRIOR TO ITS DELIVERY TO THE SITE.
16. PERMANENT SEEDING SHALL BE APPLIED WITH A HYDROMULCH APPROVED BY THE ENGINEER. APPROVED HYDRO-MULCH SHALL BE APPLIED AS PERMANENT SEEDING PRIOR TO INSTALLING EROSION CONTROL BLANKETS OR TURF REINFORCEMENT MATS. GROUNDWATER SEEPAGE OCCURRING AT CUT SLOPES SHALL BE ADDRESSED PRIOR TO INSTALLING HYDRO-MULCH AND EROSION CONTROL BLANKET/TURF REINFORCEMENT MAT.
17. PERMANENT SEEDING SHALL BE USED ON AREAS SHOWN AND 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 MIXTURES TO BE USED FOR PERMANENT STABILIZATION ARE SHOWN HEREIN.
18. FULL ADVANTAGE SHALL BE TAKEN OF TIME AND WEATHER CONDITIONS BEST SUITED FOR SEEDING. THE NORMAL DATES FOR PERMANENT SEEDING SHALL BE FROM APRIL 1ST TO MAY 31ST OR AUGUST 15TH 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 31ST AND AUGUST 15TH SHALL BE COVERED WITH STRAW MULCH. DURING THESE MONTHS, TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING.
19. DUST FROM THE SITE SHALL BE CONTROLLED BY USING COVERED TRUCKS, WETTING EXPOSED SOIL AREAS, SEEDING, INSTALLING WIND SCREENS AND/OR BARRIERS, MINIMIZING UNNECESSARY TRANSFERS AND DISTURBANCES OF EARTH MATERIALS AND ON-GOING CONSTRUCTION CLEAN-UP. SEVERAL APPLICATIONS PER DAY MAY BE NECESSARY DEPENDING UPON WEATHER CONDITIONS AND WORK ACTIVITY. DUST CONTROL TREATMENT AGENTS SHALL NOT BE APPLIED.
20. 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.
21. INSPECTIONS OF EROSION CONTROLS 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. ALL DAMAGED FILTER SOCKS SHALL BE REPLACED. ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.
22. FILL MATERIAL SHALL BE FREE OF STUMPS, WOODS, ROOTS, AND OTHER DELETERIOUS MATERIAL.
23. SOIL AND MATERIAL STOCKPILES SHALL BE LOCATED AND MANAGED AS SHOWN HEREIN, AND AS SPECIFIED BY THE ENGINEER. ALL SOIL STOCKPILES SHALL BE SURROUNDED BY EROSION CONTROL BARRIERS REGARDLESS OF THEIR DURATION OF EXPOSURE UNTIL SUCH TIME AS THE MATERIAL IS RESPREAD AND STABILIZED OR TRANSPORTED OFF SITE. STOCKPILES THAT ARE NOT TO BE USED WITHIN 30 DAYS SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH OR COVERED WITH POLYETHYLENE SHEETING.
24. SELF-INSTALLED ABOVE-GRADE CONCRETE WASHOUTS SHOULD BE CONSTRUCTED WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FEET, BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUIDS AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. INCLUDE A MINIMUM OF 12 INCHES OF FREEBOARD IN THE SIZING CALCULATIONS. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NOT LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE, SLURRIES AND LIQUIDS SHALL BE REMOVED AND PROPERLY DISPOSED OF.
25. ONCE GRADED STORMWATER DETENTION BASINS SHALL BE SURROUNDED WITH SNOW FENCE AND PROTECTED FROM HEAVY EQUIPMENT. IF THE SOIL OR SAND FILTER BECOMES COMPACTED, IT SHALL BE SUITABLY AMENDED, TILLED, AND RE-VEGETATED AS NEEDED ONCE CONSTRUCTION IS COMPLETE TO RESTORE INFILTRATION CAPACITY.
26. THE TEMPORARY LAYDOWN AREA SHALL BE RESTORED TO ORIGINAL CONDITIONS WITHIN FOURTEEN DAYS AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED. THE SUBGRADE SHALL BE SUITABLY AMENDED, TILLED, AND RE-VEGETATED TO RESTORE INFILTRATION CAPACITY.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
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No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION NOTES

FOR PERMITTING ONLY

DRAWING NO: **N-1**

PROJECT NO: NS32-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 2 OF 16

RI Environmental Management
MAY 05 2022
Office of Water Resources

DATE: Monday, May 02, 2022 - 3:03pm
FILENAME: N:\Projects\NS32-000 NextEra Solar_ Exeter Ten Solar_ Design and Permitting\04 drawings\CAD\Drawings\RIDEM PO\NS32-000 Exeter Ten Solar PO Notes.dwg

STORMWATER BASIN NOTES:

1. AREAS DESIGNATED FOR BORROW AREAS, EMBANKMENT AND STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF PLANTABLE SOIL. ALL TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED. ALL GRADED AREAS SHALL BE NO STEEPER THAN 3:1. ALL TREES SHALL BE CLEARED AND GRUBBED WITHIN 15 FEET OF THE TOE OF THE EMBANKMENT, AND WITHIN 25 FEET OF THE PRINCIPAL SPILLWAY OUTLET. AREAS TO BE COVERED BY THE DETENTION BASIN WILL BE CLEARED OF ALL BOULDERS TREES, BRUSH, LOGS, FENCES, RUBBISH AND OTHER OBJECTIONABLE MATERIAL.
2. ALL WORK ON 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 BASINS.
3. 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 OF 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.
4. ALL EXCAVATED AREAS SHALL BE GRADED TO PROVIDE PROPER DRAINAGE AND LEFT IN A SIGHTLY CONDITION. ALL EXPOSED SURFACES OF THE EMBANKMENT, SPILLWAY, SPOIL AND BORROW AREAS, AND BERMS SHALL BE STABILIZED BY SEEDING, LIMING, FERTILIZING AND MULCHING.
5. FILL MATERIAL - THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED DESIGNATED BORROW AREAS. IT SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6 INCHES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. FILL MATERIAL FOR THE CENTER OF THE EMBANKMENT SHALL CONFORM TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL AND MUST HAVE AT LEAST 30% PASSING THE #200 SIEVE. MATERIALS USED IN THE OUTER SHELL OF THE EMBANKMENT MUST HAVE THE CAPABILITY TO SUPPORT VEGETATION OF THE QUALITY REQUIRED TO PREVENT EROSION OF THE EMBANKMENT.
6. PLACEMENT - AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8-INCH THICK (BEFORE COMPACTION) LAYERS WHICH ARE TO BE CONTINUOUS OVER THE ENTIRE LENGTH OF THE FILL. THE MOST PERMEABLE BORROW MATERIAL SHALL BE PLACED IN THE DOWNSTREAM PORTIONS OF THE EMBANKMENT. THE PRINCIPAL SPILLWAY MUST BE INSTALLED CONCURRENTLY WITH FILL PLACEMENT AND NOT EXCAVATED INTO THE EMBANKMENT.
7. COMPACTION - THE MOVEMENT OF THE HAULING AND SPREADING EQUIPMENT OVER THE FILL SHALL BE CONTROLLED SO THAT THE ENTIRE SURFACE OF EACH LIFT SHALL BE TRAVERSED BY NOT LESS THAN ONE TREAD TRACK OF HEAVY EQUIPMENT OR COMPACTION SHALL BE ACHIEVED BY A MINIMUM OF FOUR COMPLETE PASSES OF A SHEEPSFOOT, RUBBER TIRED OR VIBRATORY ROLLER. FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SUCH THAT THE REQUIRED DEGREE OF COMPACTION WILL BE OBTAINED WITH THE EQUIPMENT USED. THE FILL MATERIAL SHALL CONTAIN SUFFICIENT MOISTURE SO THAT IF FORMED INTO A BALL IT WILL NOT CRUMBLE, YET NOT BE SO WET THAT WATER CAN BE SQUEEZED OUT. WHEN REQUIRED BY THE APPROVING AGENCY THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM. EACH LAYER OF FILL SHALL BE COMPACTED AS NECESSARY TO OBTAIN THAT DENSITY, AND IS TO BE CERTIFIED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. ALL COMPACTION IS TO BE DETERMINED BY AASHTO METHOD T-99 (STANDARD PROCTOR).

TEMPORARY SEDIMENT TRAP NOTES

1. CLEAR, GRUB AND STRIP ANY VEGETATION AND ROOT MAT FROM ANY PROPOSED EMBANKMENT AND OUTLET AREA. REMOVE STONES AND ROCKS WHOSE DIAMETER IS GREATER THAN THREE (3) INCHES AND OTHER DEBRIS.
2. EXCAVATE WET STORAGE AND CONSTRUCT THE EMBANKMENT AND/OR OUTLET AS NEEDED TO ATTAIN THE NECESSARY STORAGE REQUIREMENTS. 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.
3. STABILIZE THE EARTHEN EMBANKMENT USING ANY OF THE FOLLOWING MEASURES, SEEDING FOR TEMPORARY VEGETATIVE COVER; SEEDING FOR PERMANENT VEGETATIVE COVER; OR SLOPE PROTECTION, IMMEDIATELY AFTER INSTALLATION.
4. CARRY OUT CONSTRUCTION OPERATIONS IN SUCH A MANNER THAT EROSION AND WATER POLLUTION ARE MINIMIZED.
5. 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. CHECK THE OUTLET TO ENSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. THE HEIGHT OF THE STONE OUTLET OR WEIR CREST SHOULD BE MAINTAINED AT LEAST 1 FOOT BELOW THE CREST OF THE EMBANKMENT. ALSO CHECK FOR SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE.
6. 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. DISPOSE OF THE SEDIMENT REMOVED FROM THE BASIN IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE AND CAUSE SEDIMENTATION PROBLEMS.
7. THE TEMPORARY SEDIMENT TRAP MAY BE REMOVED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

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.
8. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN EXCAVATING NEAR AND BACKFILLING IN THE VICINITY OF EXISTING UTILITIES, INCLUDING THE USE OF HAND EXCAVATION WHERE APPROPRIATE.

PROPOSED LEGEND

- OHW — OHW — OVERHEAD WIRES
- UGE — UGE — UNDERGROUND ELECTRIC
- X — X — CHAIN LINK FENCE
- LOD — LOD — LIMITS OF DISTURBANCE
- SLOD — SLOD — COMBINED LIMITS OF DISTURBANCE / FILTER SOCK
- SF — FILTER SOCK & SILT FENCE
- FS — FILTER SOCK
- LIMITS OF SHADE TREE CLEARING
- CRUSHED STONE ACCESS ROAD
- REINFORCED ACCESS ROAD
- SANDFILTER
- ERNST NORTHEAST SOLAR POLLINATOR 3-FT SEED MIX (ERNMX-612) OR APPROVED EQUAL
- SHADE TREE CLEARING LIMITS. SEED DISTURBED GROUND WITH NEW ENGLAND WETLAND PLANTS, INC. (NEWP) EROSION CONTROL / RESTORATION MIX FOR DRY SITES OR APPROVED EQUAL OR VEGETATIVE SCREEN TO BE SPECIFIED BY LANDSCAPE ARCHITECT
- NEW ENGLAND WETLAND PLANTS, INC. (NEWP) RESTORATION MIX FOR DETENTION BASINS OR APPROVED EQUAL
- MAINTAIN EXISTING VEGETATION
- UTILITY POLE (CUSTOMER OWNED)
- UTILITY POLE (UTILITY OWNED)
- TP — TEST PIT

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
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No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION NOTES

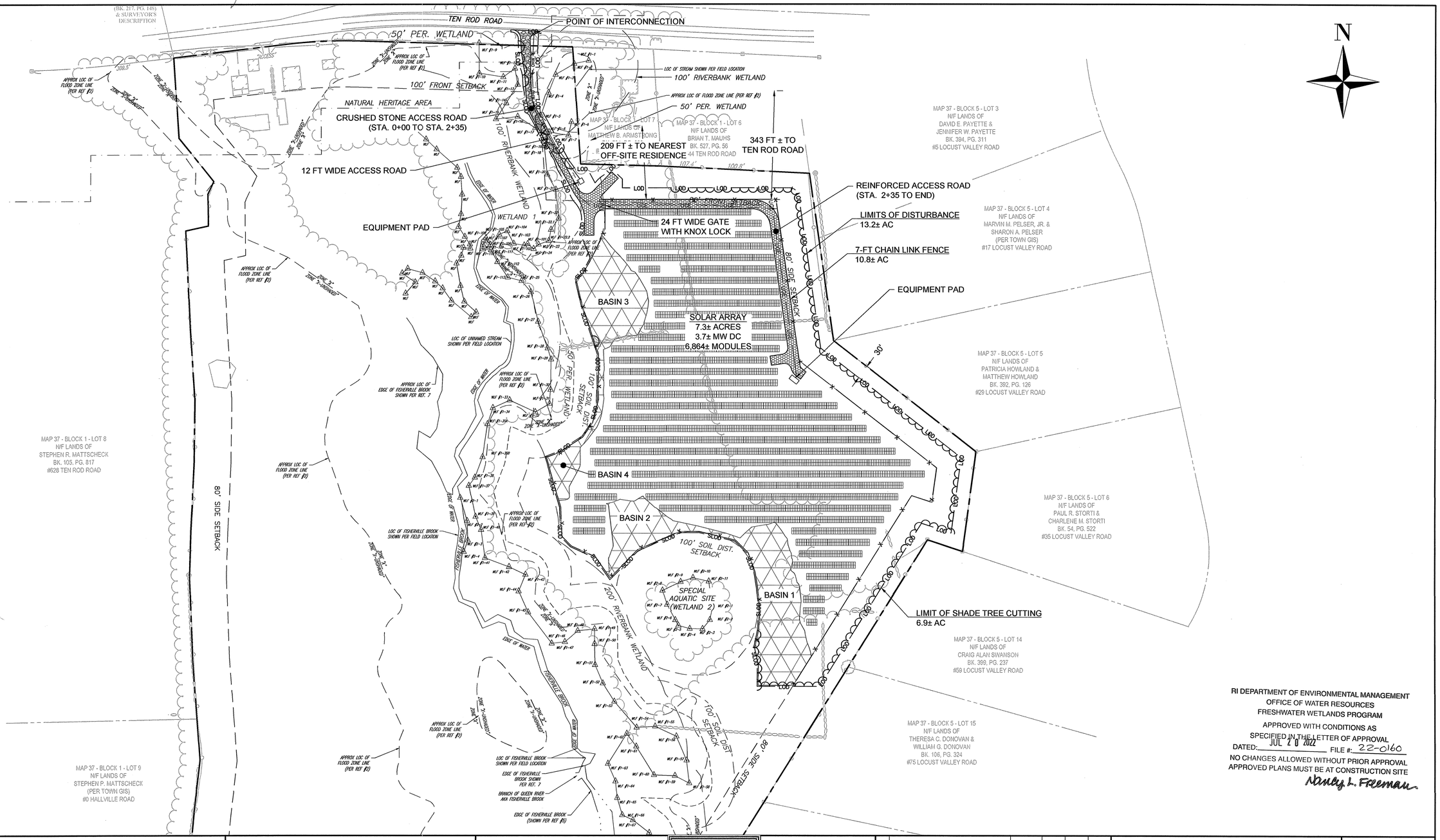
FOR PERMITTING ONLY

DRAWING NO:
N-2

PROJECT NO: M532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 3 OF 16

RI Environmental Management
MAY 05 2022
Office of Water Resources

DATE: May 02, 2022 - 3:39pm
FILENAME: M532-000 Nautilus Solar- Exeter Ten Solar- Design and Permitting\04 GRAPHICS\CAD\Drawings\ROEM PO\M532-000 Exeter Ten Solar PD Notes.dwg



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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MAY 05 2022
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2022.05.02 18:06:53 -04'00'

0 100' 200'
SCALE: 1" = 100'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION
SITE OVERVIEW PLAN

FOR PERMITTING ONLY

DRAWING NO:
SO-1

PROJECT NO: N532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 4 OF 16

DATE: May 02, 2022 - 3:05PM
FILENAME: G:\Wetlands\Data\N532-000 Hartline Solar- Exeter Ten Solar- Design and Permitting\04 GIS\MXDS\Civil\Drawings\ORIGIN PDF\N532-000 Exeter Ten Solar PD Site Overview.dwg

NOTES:

1. FINAL LOCATION OF ALL ELECTRICAL EQUIPMENT, WIRES, POLES, INVERTERS, ETC. TO BE DETERMINED BY OTHERS AND APPROVED BY OWNER. ALL ELECTRICAL CONNECTION AND DISTRIBUTION WITHIN THE ARRAY SHALL BE UNDERGROUND. ALL UNDERGROUND ELECTRICAL NOT SHOWN ON THIS PLAN SET.
2. FINAL NUMBER AND LOCATION OF SOLAR MODULES TO BE DESIGNED BY OTHERS. PRIOR TO INSTALLATION. FINAL NUMBER AND LOCATION MAY VARY AS NEEDED WITHIN PROPOSED FENCE LINE. MAX PANEL HEIGHT SHALL NOT EXCEED 15 FEET.
3. 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.
4. 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 A MINIMUM OF ONE (1) SIGN EACH FENCE SIDE AROUND THE FULL INSTALLATION PERIMETER.
5. POST SIGNAGE WITH 24-HOUR EMERGENCY CONTACT INFORMATION ON THE VEHICLE GATE.
6. EXTERIOR LIGHTING IS NOT PROPOSED.

N

TEN ROD ROAD
PAVED APRON
POINT OF INTERCONNECTION
NATIONAL GRID UTILITY POLE (TYP.)
RHODE ISLAND HIGHWAY BOUNDARY
50' PER WETLAND
100' FRONT SETBACK
CUSTOMER OWNED UTILITY POLE (TYP.)
SELECTIVELY PRUNE LIMBS AS REQUIRED FOR OVERHEAD WIRE CROSSING
CRUSHED STONE ACCESS ROAD (STA. 0+00 TO STA. 2+35)
12 FT WIDE ACCESS ROAD
STABILIZE DISTURBED AREAS WITH NEW ENGLAND WETLAND PLANTS, INC. EROSION CONTROL / RESTORATION MIX FOR DRY SITES (OR APPROVED EQUAL).
EQUIPMENT PAD
24 FT WIDE GATE WITH KNOX LOCK
REINFORCED ACCESS ROAD (STA. 2+35 TO END)
20 FT WIDE ACCESS ROAD
LIMITS OF DISTURBANCE
13.2± AC
7-FT CHAIN LINK FENCE
10.8± AC
LIMIT OF SHADE TREE CLEARING
EQUIPMENT PAD
MAINTAIN EXISTING VEGETATION. SUPPLEMENT PER LANDSCAPE ARCHITECT.
ERNST NORTHEAST SOLAR POLLINATOR 3-FT MIX (ERNMX-612) (OR APPROVED EQUAL).
SELECTIVELY CUT SHADE TREES. STUMPS AND UNDERGROWTH TO REMAIN. STABILIZE DISTURBED AREAS WITH NEW ENGLAND WETLAND PLANTS, INC. EROSION CONTROL / RESTORATION MIX FOR DRY SITES (OR APPROVED EQUAL) OR VEGETATIVE SCREEN TO BE SPECIFIED BY LANDSCAPE ARCHITECT.
SOLAR ARRAY
7.3± ACRES
3.7± MW DC
6,864± MODULES
STONE WALLS TO BE REMOVED AS NEEDED
NEW ENGLAND WETLAND PLANTS, INC. RESTORATION MIX FOR DETENTION BASINS (OR APPROVED EQUAL).
MAP 37 - BLOCK 1 - LOT 7
N/F LANDS OF
MATTHEW B. ARMSTRONG
6PASS BK. 534, PG. 303
#554 TEN ROD ROAD
MAP 37 - BLOCK 1 - LOT 6
N/F LANDS OF
BRIAN T. MAUHS
BK. 527, PG. 56
#544 TEN ROD ROAD
MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI
AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES
MAP 37 - BLOCK 5 - LOT 3
N/F LANDS OF
JENNIFER W. PAYETTE
BK. 394, PG. 311
#5 LOCUST VALLEY ROAD
MAP 37 - BLOCK 5 - LOT 4
N/F LANDS OF
MARVIN M. PELSER, JR. &
SHARON A. PELSER
(PER TOWN GIS)
#17 LOCUST VALLEY ROAD
MAP 37 - BLOCK 5 - LOT 5
N/F LANDS OF
PATRICIA HOWLAND &
MATTHEW HOWLAND
BK. 392, PG. 126
#29 LOCUST VALLEY ROAD
WETLAND 1
BASIN 3
100' RIVERBANK WETLAND
100' R.B. WETLAND
100' SOIL DIST. SETBACK
ZONE "X-UNSHADED" ZONE "X"
APPROX LOC OF 11,000 ZONE LINE (PER REF #2)
APPROX LOC OF FLOOD ZONE LINE (PER REF #2)
EDGE OF WETLAND (SEE NOTE #4)
LOC OF WLF 1-100, 1-102, 1-109 & 1-110 SHOWN PER REF. 7
LOC OF UNNAMED STREAM SHOWN PER FIELD LOCATION
APPROX LOC OF EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7
MATCH LINE DRAWING NO. C-2

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

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MAY 05 2022
Office of Water Resources

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SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER
CIVIL

0 50' 100'
SCALE: 1" = 50'

2022.05.02 18:06:21 -04'00'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION LAYOUT AND MATERIALS PLAN

FOR PERMITTING ONLY

DRAWING NO:
C-1
PROJECT NO: N532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 5 OF 16

DATE: May 02, 2022 - 3:10PM
FILENAME: G:\Waltham\Jobs\N532-000 Nautilus Solar- Exeter Ten Solar- Design and Permitting\04 GRAPHICS\GIS\Drawings\RIDEM PDV\N532-000 Exeter Ten Solar PD layout and Materials.dwg

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MATCH LINE DRAWING NO. C-1

MATCH LINE DRAWING NO. C-1

N

SOLAR ARRAY
7.3± ACRES
3.7± MW DC
6,864± MODULES

BASIN 4

BASIN 2

BASIN 1

100' SOIL DIST. SETBACK

200' RIVERBANK WETLAND

50' PERIMETER WETLAND

100' SOIL DIST. SETBACK

SPECIAL AQUATIC SITE (WETLAND 2)

WETLAND 1

WETLAND FLAG 1-38 NOT FOUND

APPROX LOC OF FLOOD ZONE LINE (PER REF #2)

LOC OF UNNAMED STREAM SHOWN PER FIELD LOCATION

APPROX LOC OF EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7

LOC OF FISHERVILLE BROOK SHOWN PER FIELD LOCATION

EDGE OF WETLAND (SEE NOTE #4)

EDGE OF WOODS

EDGE OF WATER

ZONE "X" ZONE "X-UNSHADED"

ZONE "A" ZONE "A-UNSHADED"

FISHERVILLE BROOK

BRANCH OF QUEEN RIVER AKA FISHERVILLE BROOK

EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7

LOC OF WLF #1-63 THROUGH #1-38 SHOWN PER REF. 7

EDGE OF FISHERVILLE BROOK (SHOWN PER REF #2)

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 6
N/F LANDS OF
PAUL R. STORTI &
CHARLENE M. STORTI
BK. 54, PG. 522
#35 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 14
N/F LANDS OF
CRAIG ALAN SWANSON
BK. 399, PG. 237
#59 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 15
N/F LANDS OF
THERESA C. DONOVAN &
WILLIAM G. DONOVAN
BK. 106, PG. 324
#75 LOCUST VALLEY ROAD

LIMIT OF SHADE TREE CLEARING

MAINTAIN EXISTING VEGETATION.
SUPPLEMENT PER LANDSCAPE ARCHITECT.

SELECTIVELY CUT SHADE TREES.
STUMPS AND UNDERGROWTH TO REMAIN. STABILIZE DISTURBED AREAS WITH NEW ENGLAND WETLAND PLANTS, INC. EROSION CONTROL / RESTORATION MIX FOR DRY SITES (OR APPROVED EQUAL) OR VEGETATIVE SCREEN TO BE SPECIFIED BY LANDSCAPE ARCHITECT.

ERNST NORTHEAST SOLAR
POLLINATOR 3-FT MIX (ERNMX-612)
(OR APPROVED EQUAL).

NEW ENGLAND WETLAND PLANTS, INC.
RESTORATION MIX FOR DETENTION
BASINS (OR APPROVED EQUAL).

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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MAY 05 2022

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EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2022.05.02 18:05:43 -04'00'

0 50' 100'
SCALE: 1" = 50'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION LAYOUT AND MATERIALS PLAN

FOR PERMITTING ONLY

DRAWING NO:
C-2

PROJECT NO: N532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 6 OF 16

DATE: May 02, 2022 – 3:10PM
FILENAME: G:\Waltham\Jobs\N532-000 Nautilus Solar– Exeter Ten Solar– Design and Permitting\04 GRAPHICS\CAD\Drawings\MEDIA PDF\N532-000 Exeter Ten Solar PD Layout and Materials.dwg

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N

TEN ROD ROAD

RHODE ISLAND HIGHWAY BOUNDARY

50' PER. WETLAND

100' FRONT SETBACK

100' R.B. WETLAND

100' RIVERBANK WETLAND

WETLAND 1

50' PER. WETLAND

100' SOIL DIST. SETBACK

MAP 37 - BLOCK 1 - LOT 7
N/F LANDS OF
MATTHEW B. ARMSTRONG
BK. 534, PG. 303
#554 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 6
N/F LANDS OF
BRIAN T. MAUHS
BK. 527, PG. 56
#544 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

MAP 37 - BLOCK 5 - LOT 3
N/F LANDS OF
DAVID E. PAYETTE &
JENNIFER W. PAYETTE
BK. 394, PG. 311
#5 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 4
N/F LANDS OF
MARVIN M. PELSER, JR. &
SHARON A. PELSER
(PER TOWN GIS)
#17 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 5
N/F LANDS OF
PATRICIA HOWLAND &
MATTHEW HOWLAND
BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

SEE INSET VIEW

EMERGENCY SPILLWAY
LEVEL LIP EL: 179.10
CREST WIDTH: 10.0 FT

BASIN 3
BOTTOM EL.: 176.50
BERM EL.: 181.00
BERM WIDTH: 5 FT

STONE BERM
CREST ELEV: 177.00
END ELEV: 180.00

GRASS CHANNEL
WITH TRM
BOTTOM WIDTH: 2 FT
DEPTH: 2 FT
LENGTH: 240 FT

LEVEL STONE TRENCH (TYP.)

LIMIT OF SHADE TREE CLEARING

TP 1

TP 2

LOC. OF STREAM SHOWN PER FIELD LOCATION

LOC. OF UNNAMED STREAM SHOWN PER FIELD LOCATION

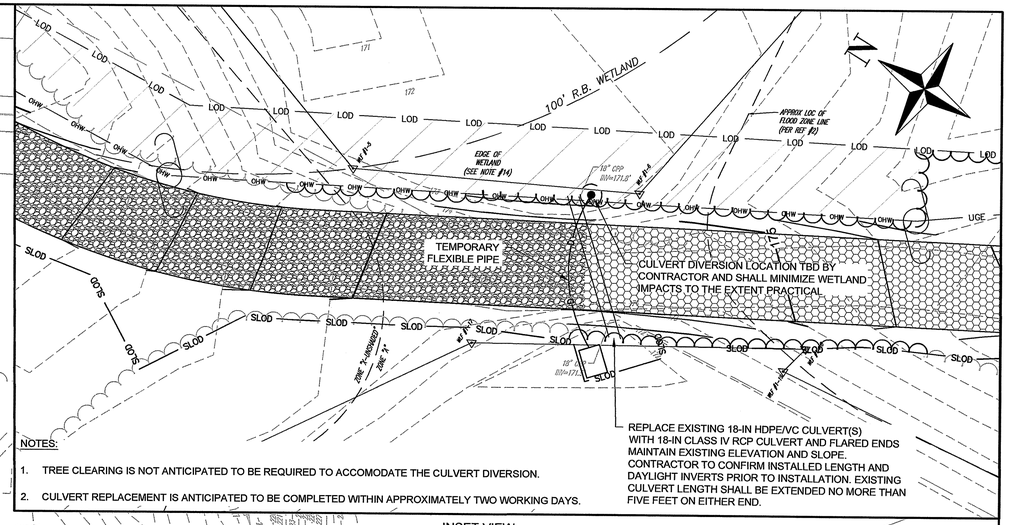
APPROX LOC. OF EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7

APPROX LOC OF FLOOD ZONE LINE (PER REF #2)

EDGE OF WETLAND (SEE NOTE #1A)

MATCH LINE DRAWING NO. C-4

MATCH LINE DRAWING NO. C-4



NOTES:

1. TREE CLEARING IS NOT ANTICIPATED TO BE REQUIRED TO ACCOMODATE THE CULVERT DIVERSION.
2. CULVERT REPLACEMENT IS ANTICIPATED TO BE COMPLETED WITHIN APPROXIMATELY TWO WORKING DAYS.

INSET VIEW
SCALE: 1"=10'

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0160
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AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2022.06.30 16:29:16 -04'00'

SCALE: 1" = 50'

No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	RESPONSE TO RIDEM COMMENTS	6/30/2022	CJR	JMG	JMG

DRAWN BY: CJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION GRADING AND DRAINAGE PLAN

FOR PERMITTING ONLY

DRAWING NO: **C-3**

PROJECT NO: N532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 7 OF 16

DATE: Jun 30, 2022 - 2:00PM
FILENAME: G:\Waltham\Active\N532-000 Nautilus Solar- Exeter Ten Solar- Design and Permitting\04 GRAPHICS\CAD\Drawings\RIDEM PDA\N532-000 Exeter Ten Solar PD Grading and Drainage.dwg

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Environmental Management
JUL 07 2022
Office of Water Resources

RI Environmental Management
JUL 07 2022
Office of Water Resources

MATCH LINE DRAWING NO. C-3

MATCH LINE DRAWING NO. C-3

N

STONE BERM
CREST ELEV: 174.50
END ELEV: 175.00

BASIN 4
BOTTOM EL.: 174.00
BERM EL.: 175.00
BERM WIDTH: 3 FT

EMERGENCY SPILLWAY
LEVEL LIP EL: 174.50
CREST WIDTH: 10.0 FT

LEVEL STONE TRENCH (TYP.)

GRASS CHANNEL WITH TRM
BOTTOM WIDTH: 2 FT
DEPTH: 1 FT
LENGTH: 135 FT

STONE BERM
CREST ELEV: 175.50
END ELEV: 176.00

BASIN 2
BOTTOM EL.: 175.00
BERM EL.: 176.00
BERM WIDTH: 5 FT

EMERGENCY SPILLWAY
LEVEL LIP EL: 175.50
CREST WIDTH: 20.0 FT

BASIN 1
BOTTOM EL.: 180.00
BERM EL.: 184.00
BERM WIDTH: 5 FT

EMERGENCY SPILLWAY
LEVEL LIP EL: 182.50
CREST WIDTH: 15.0 FT

PEA GRAVEL DIAPHRAGM
LENGTH: 275 FT SURFACE
ELEV: 182.50

LIMIT OF SHADE TREE CLEARING

TP 3
TP 4
TP 5

WETLAND 1
SPECIAL AQUATIC SITE (WETLAND 2)
200' RIVERBANK WETLAND
50' PERIMETER WETLAND
100' SOIL DIST. SETBACK
EDGE OF WETLAND (SEE NOTE 1)
EDGE OF WATER
EDGE OF ROAD
LAND
OPEN FIELD
MOWABLE SLOPE
LOC OF UNNAMED STREAM SHOWN PER FIELD LOCATION
APPROX LOC OF EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7
LOC OF FISHERVILLE BROOK SHOWN PER FIELD LOCATION
FISHERVILLE BROOK
BRANCH OF QUEEN RIVER AKA FISHERVILLE BROOK
EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7
EDGE OF FISHERVILLE BROOK (SHOWN PER REF #3)
LOC OF WF #1-63 THROUGH #1-70 SHOWN PER REF. 7
APPROX LOC OF FLOOD ZONE LINE (PER REF #2)
ZONE "A" ZONE "A-UNSHADED"
WETLAND FLAG 1-38 NOT FOUND

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

MAP 37 - BLOCK 5 - LOT 6
N/F LANDS OF
PAUL R. STORTI &
CHARLENE M. STORTI
BK. 54, PG. 522
#35 LOCUST VALLEY ROAD

BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 14
N/F LANDS OF
CRAIG ALAN SWANSON
BK. 399, PG. 237
#59 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 15
N/F LANDS OF
THERESA C. DONOVAN &
WILLIAM G. DONOVAN
BK. 105, PG. 324
#75 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 15

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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RI Environmental Management
MAY 05 2022
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AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER
CIVIL

0 50' 100'
SCALE: 1" = 50'

2022.05.02 18:04:37 -04'00'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION GRADING AND DRAINAGE PLAN

FOR PERMITTING ONLY

DRAWING NO:
C-4

PROJECT NO: N532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 8 OF 16

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DATE: May 02, 2022 - 1:18pm
FILE: N:\Projects\N532-000 Nicolllia Solar– Exeter Ten Solar– Design and Permitting\04 GRAPHICS\CAD\Drawings\RIDEM PD\N532-000 Exeter Ten Solar PD Grading and Drainage.dwg

N

NOTES:

1. ROLL-OFF CONTAINER AND CONCRETE WASHOUT AREA TO BE LOCATED WITHIN TEMPORARY LAYDOWN AREA. FINAL LOCATIONS OF TO BE DETERMINED BY CONTRACTOR AS APPROVED BY OWNER.

SLOPE LEGEND:

SLOPES 8-15%

SLOPES >15%

TEN ROD ROAD

CONSTRUCTION ENTRANCE

RHODE ISLAND HIGHWAY BOUNDARY

MAP 37 - BLOCK 1 - LOT 7
N/F LANDS OF
MATTHEW B. ARMSTRONG
BK. 534, PG. 303
#554 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 6
N/F LANDS OF
BRIAN T. MAUHS
BK. 527, PG. 56
#544 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

MAP 37 - BLOCK 5 - LOT 3
N/F LANDS OF
DAVID E. PAYETTE &
JENNIFER W. PAYETTE
BK. 394, PG. 311
#5 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 4
N/F LANDS OF
MARVIN M. PELSER, JR. &
SHARON A. PELSER
(PER TOWN GIS)
#17 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 5
N/F LANDS OF
PATRICIA HOWLAND &
MATTHEW HOWLAND
BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

LIMITS OF DISTURBANCE

TEMP. LAYDOWN AREA

STOCKPILE

TEMP. SED TRAP (TST) - 1

COMBINED SILT FENCE AND FILTER SOCK (TYP.)

TEMPORARY DIVERSION (TYP.)

12 IN FILTER SOCK / LIMIT OF DISTURBANCE (TYP.)

50' PERP. WETLAND

100' R.B. WETLAND

100' RIVERBANK WETLAND

WETLAND 1

100' FRONT SETBACK

100' SOIL DIST. SETBACK

LOC OF STREAM SHOWN PER FIELD LOCATION

LOC OF UNNAMED STREAM SHOWN PER FIELD LOCATION

APPROX LOC OF FLOOD ZONE LINE (PER REF #2)

LOC OF WF 1-106, 1-107, 1-109 & 1-110 SHOWN PER REF. 7

APPROX LOC OF EDGE OF FENDALLE BROOK SHOWN PER REF. 7

EDGE OF WETLAND (SEE NOTE #4)

EDGE OF WETLAND (PER REF 7)

EDGE OF WOODS

EDGE OF WATER

OPEN FIELD

SLOPES > 15%

SLOPES 8-15%

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: JUL 20 2022 FILE #: 22-0160
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MATCH LINE DRAWING NO. C-6

MATCH LINE DRAWING NO. C-6

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AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER
CIVIL

SCALE: 1" = 50'

2022.05.02 18:03:51 -04'00'

No.	REVISION	DATE	DRAWN	DESIGN	CHK
			GJ		

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION EROSION AND SEDIMENT CONTROL PLAN

FOR PERMITTING ONLY

DRAWING NO:
C-5

PROJECT NO: N532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 9 OF 16

RI Environmental Management
MAY 05 2022
Office of Water Resources

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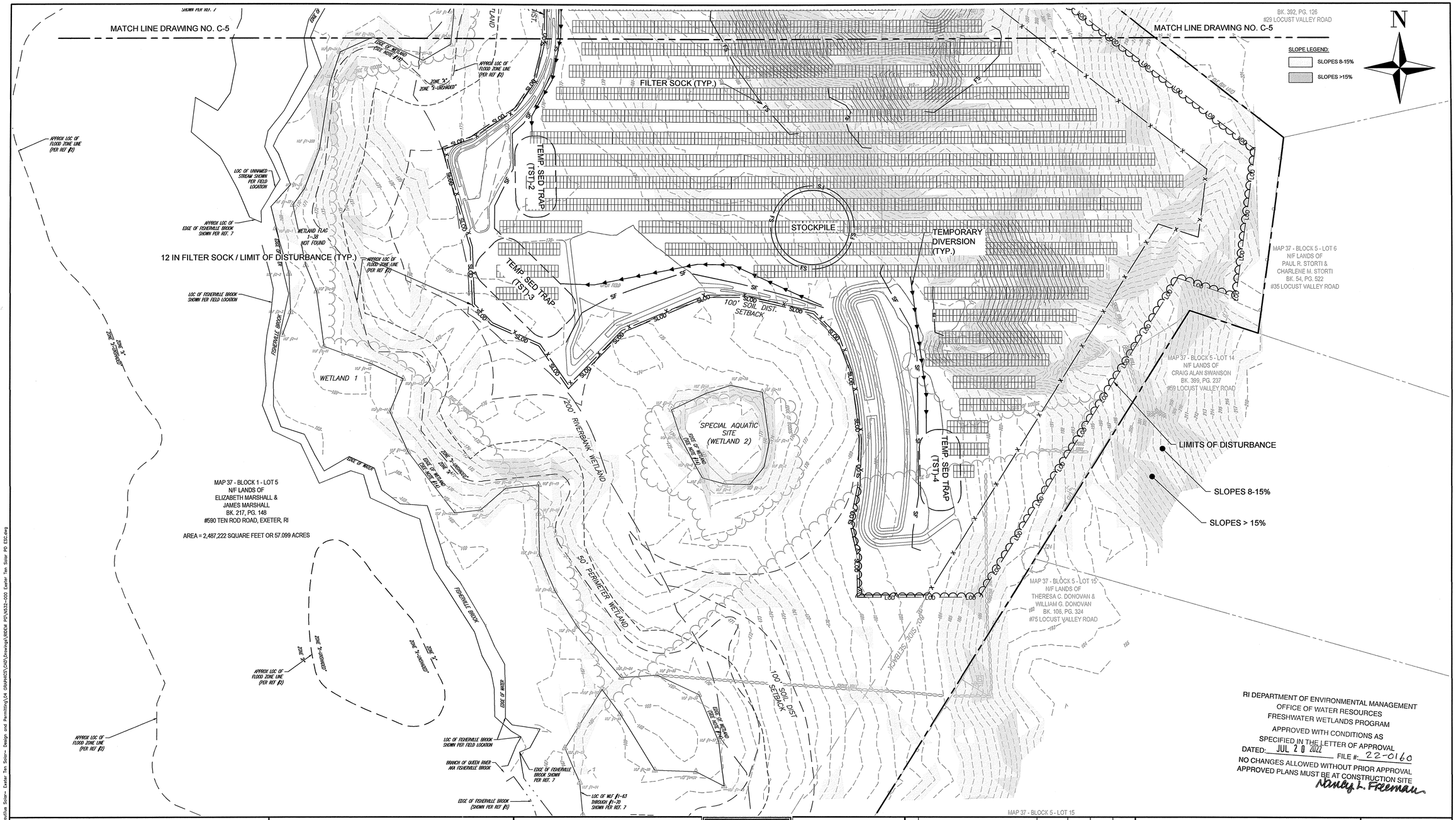
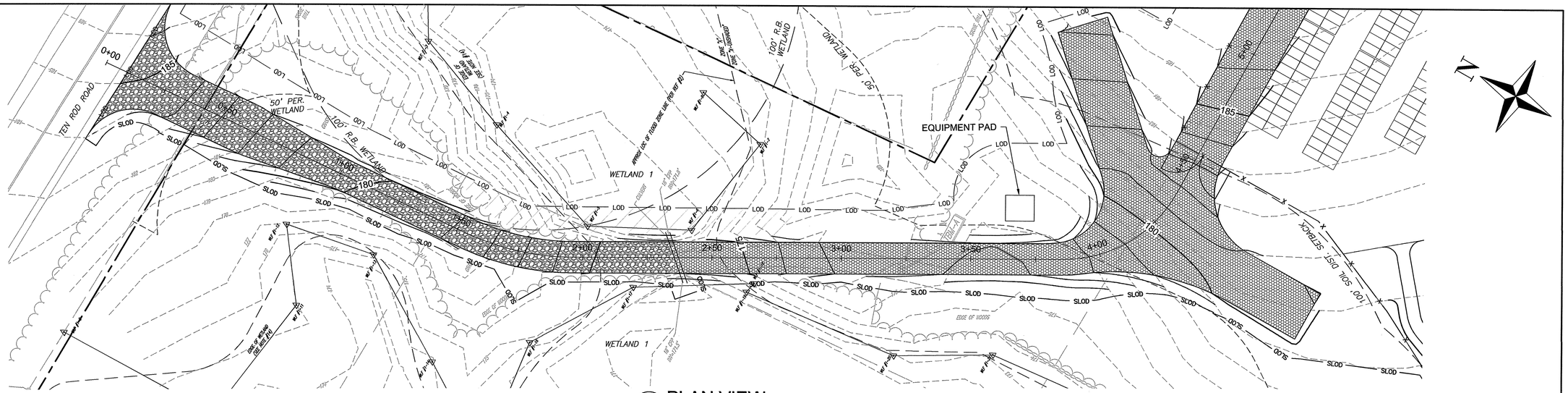
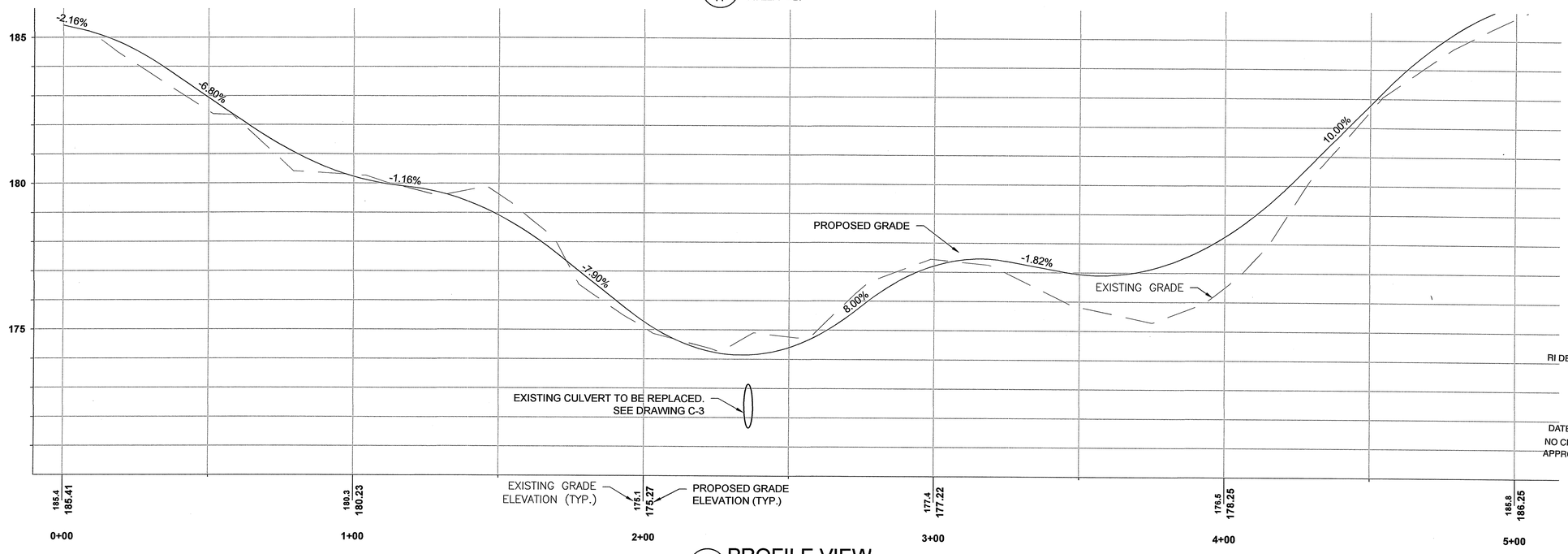
DATE: May 02, 2022 - 3:17pm
PLOTTED BY: Vyacheslav Nikitin
N:\Projects\N532-000 Nautilus Solar- Exeter Ten Solar- Design and Permitting\04 DRAWINGS\CAD\Drawings\RIDEM #2\N532-000 Exeter Ten Solar PD ESC.dwg


MATCH LINE DRAWING NO. C-5
MATCH LINE DRAWING NO. C-5
N
SLOPE LEGEND:
SLOPES 8-15%
SLOPES >15%
FILTER SOCK (TYP.)
TEMP. SED TRAP (TST)-2
STOCKPILE
TEMPORARY DIVERSION (TYP.)
12 IN FILTER SOCK / LIMIT OF DISTURBANCE (TYP.)
TEMP. SED TRAP (TST)-3
100' SOIL DIST. SETBACK
TEMP SED TRAP (TST)-4
SPECIAL AQUATIC SITE (WETLAND 2)
WETLAND 1
200' RIVERBANK WETLAND
50' PERIMETER WETLAND
100' SOIL DIST SETBACK
LIMITS OF DISTURBANCE
SLOPES 8-15%
SLOPES > 15%
MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI
AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES
MAP 37 - BLOCK 5 - LOT 6
N/F LANDS OF
PAUL R. STORTI &
CHARLENE M. STORTI
BK. 54, PG. 522
#35 LOCUST VALLEY ROAD
BK. 392, PG. 126
#29 LOCUST VALLEY ROAD
MAP 37 - BLOCK 5 - LOT 14
N/F LANDS OF
CRAIG ALAN SWANSON
BK. 399, PG. 237
#59 LOCUST VALLEY ROAD
MAP 37 - BLOCK 5 - LOT 15
N/F LANDS OF
THERESA C. DONOVAN &
WILLIAM G. DONOVAN
BK. 106, PG. 324
#75 LOCUST VALLEY ROAD
MAP 37 - BLOCK 5 - LOT 15
EDGE OF WETLAND (SEE NOTE #10)
EDGE OF WATER
FISHERVILLE BROOK
LOC OF FISHERVILLE BROOK SHOWN PER FIELD LOCATION
BRANCH OF QUEEN RIVER AKA FISHERVILLE BROOK
EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7
EDGE OF FISHERVILLE BROOK (SHOWN PER REF #3)
LOC OF WLF #1-63 THROUGH #1-70 SHOWN PER REF. 7
APPROX LOC OF FLOOD ZONE LINE (PER REF #2)
APPROX LOC OF FLOOD-ZONE LINE (PER REF #2)
APPROX LOC OF EDGE OF FISHERVILLE BROOK SHOWN PER REF. 7
LOC OF UNNAMED STREAM SHOWN PER FIELD LOCATION
WETLAND FLAG 1-38 NOT FOUND
ZONE "A" ZONE "X-UNSHADED"
ZONE "X-SHADED"
ZONE "X"
ZONE "A"
ZONE "X"
ZONE "X-SHADED"
ZONE "X"
ZONE "X-SHADED



1/11 PLAN VIEW

SCALE: 1" = 20'



2/11 PROFILE VIEW

SCALE: 1" = 20' H, 1" = 10' V

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

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396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2022.05.02 17:56:18 -04'00'

0 20' 40'
SCALE: 1" = 20'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION
ACCESS ROAD PROFILE

FOR PERMITTING ONLY

DRAWING NO:
P-1
PROJECT NO: N532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 11 OF 16

RI Environmental Management
MAY 05 2022
Office of Water Resources

DATE: May 02, 2022 - 3:11PM
FILENAME: C:\Waltham\Jobs\N532-000 Nautilus Solar- Exeter Ten Solar- Design and Permitting\04 GRAPHICS\CAD\Drawings\BSDM P01\N532-000 Exeter Ten Solar PD Road Profile.dwg

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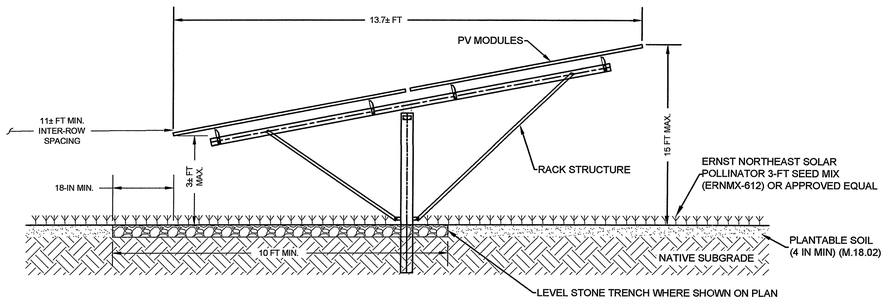
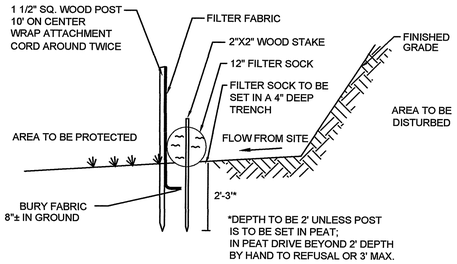
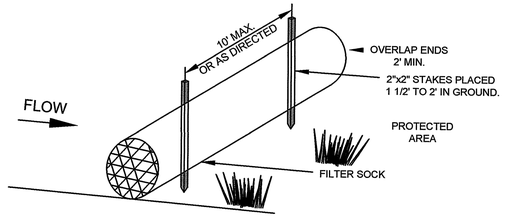


NOTE:
1. RACK STRUCTURE AND PV MODULES SHOWN FOR ILLUSTRATIVE PURPOSES. ACTUAL COMPONENTS AND DIMENSIONS AS APPROVED BY OWNER. FOUNDATION TYPE TO BE DETERMINED BY OTHERS. CONCRETE BALLASTS ARE NOT PERMITTED.

1/12 TYPICAL SOLAR PANEL AND RACK
SCALE: NTS



2/12 TYPICAL COMBINED SILT FENCE & FILTER SOCK
SCALE: NTS

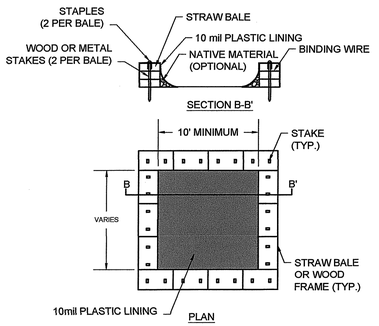


ANCHORING DETAIL

CONSTRUCTION SPECIFICATIONS

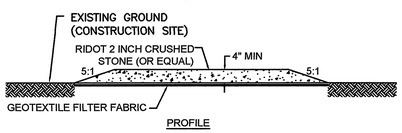
1. FILTER SOCKS SHALL BE FILTREXX SILTSOXX OR APPROVED EQUIVALENT. FILTER SOCK AND COMPOST MATERIALS SHALL BE IN ACCORDANCE WITH AASHTO MP 9-06, LATEST REVISION.
2. FILTER SOCKS SHALL BE 12 INCHES IN DIAMETER.
3. FILTER SOCKS SHALL BE PLACED IN ACCORDANCE WITH THIS PLAN SET AND IN A ROW WITH ENDS OVERLAPPING 2 FEET (MIN.).
4. FILTER SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES, 10 FEET ON CENTER (MAX).
5. INSPECTION SHALL BE FREQUENT AND REPAIR AND/OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. FILTER SOCKS SHALL NOT BE MOVED TO OTHER LOCATIONS IN THE PROJECT ONCE PLACED.

3/12 TYPICAL FILTER SOCK
SCALE: NTS



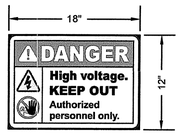
NOTES:
1. CONCRETE WASHOUT SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. PROVIDE 12 INCHES OF FREEBOARD.
2. PLASTIC LINING SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.
3. WASHOUT SHALL BE CLEANED OR REPLACED ONCE 75% FULL.
4. ACTUAL DIMENSIONS TO BE DETERMINED BY THE CONTRACTOR.

4/12 TYPICAL CONCRETE WASHOUT
SCALE: NTS



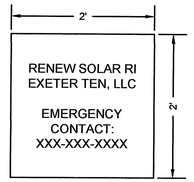
NOTES:
1. REFER TO DRAWING N-1 FOR TEMPORARY LAYDOWN AREA RESTORATION NOTES.

6/12 TYPICAL LAYDOWN AREA
SCALE: NTS



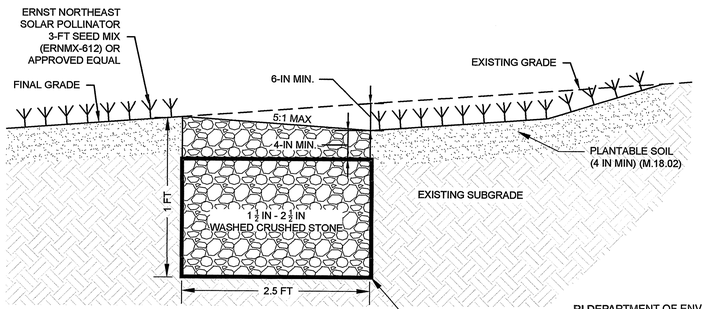
DANGER SIGN NOTES:
1. SIGN SHALL BE 0.040 IN. RUST FREE ALUMINUM.
2. SIGN SHALL COMPLY WITH ANSI Z535.
3. DANGER SIGN TO BE SPACED EVERY 300 FEET ALONG FENCE LINE.

NO TRESPASSING SIGN NOTES:
1. SIGN SHALL BE 0.040 IN. RUST FREE ALUMINUM.
2. SIGN SHALL COMPLY WITH ANSI Z535.
3. NO TRESPASSING SIGN TO BE SPACED EVERY 100 FEET ALONG FENCE LINE.



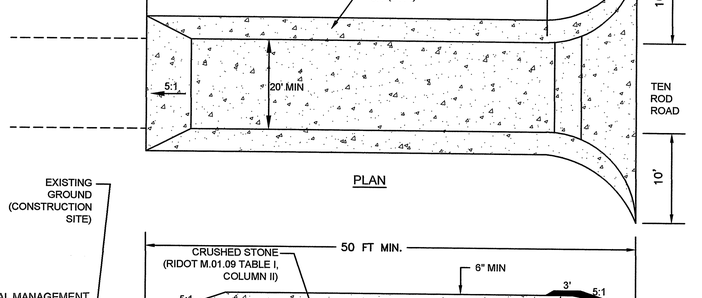
EMERGENCY CONTACT SIGN NOTES:
1. SIGN SHALL BE REFLECTIVE RUST FREE ALUMINUM.
2. EMERGENCY CONTACT TELEPHONE NUMBER TO BE PROVIDED BY OWNER.

5/12 TYPICAL SIGN DETAILS
SCALE: NTS



NOTES:
1. LEVEL STONE TRENCH SHALL RUN PARALLEL TO FINAL GRADE CONTOUR AT A CONSISTENT ELEVATION FOR A MINIMUM LENGTH OF 10 FEET.
2. GEOTEXTILE FABRIC: CLASS "C" APPARENT OPENING SIZE (ASTM D-4751).

7/12 TYPICAL LEVEL STONE TRENCH
SCALE: NTS



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DATED: JUL 2 0 2022 FILE #: 22-0160
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8/12 TYPICAL CONSTRUCTION ENTRANCE
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CIVIL

2022.05.02 17:55:53 -04'00'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION DETAILS

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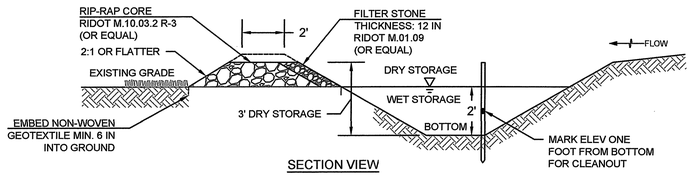
D-1

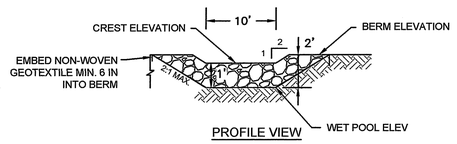
PROJECT NO: N532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 12 OF 16

RI Environmental Management
MAY 0 5 2022
Office of Water Resources

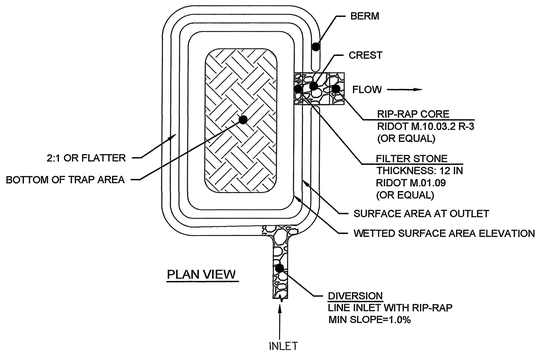
DATE: May 02, 2022 - 3:16PM
FILENAME: G:\Wellman\Jobs\N532-000 Houlihan Solar- Exeter Ten Solar- Design and Permitting\04 DRAWINGS\CAD\Drawings\RIDEM PD\N532-000 Exeter Ten Solar PD Details.dwg



SECTION VIEW



PROFILE VIEW

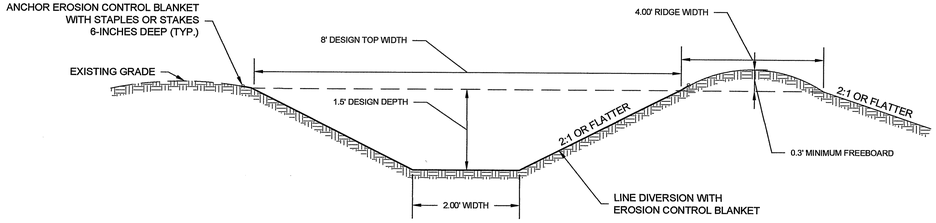


PLAN VIEW

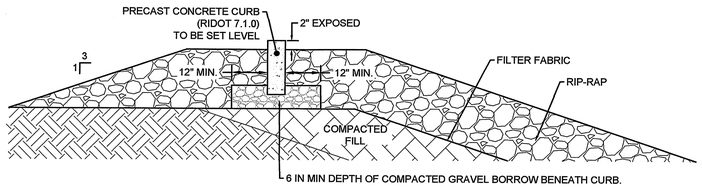
TEMPORARY SEDIMENT TRAPS SUMMARY TABLE

PARAMETER	TST-1	TST-2	TST-3	TST-4
DRAINAGE AREA, AC	3.60	1.42	2.86	1.52
WET VOLUME RQD, CF	6,533	2,579	5,193	2,754
DRY VOLUME RQD, CF	6,533	2,579	5,193	2,754
MINIMUM DEPTHS (MEASURED FROM BOTTOM OF SEDIMENT TRAP)				
SEDIMENT REMOVAL	1'	1'	1'	1'
BOTTOM OF FILTER STONE (WET STORAGE)	2'	2'	2'	2'
WEIR CREST (DRY STORAGE)	3'	3'	3'	3'
BERM	4'	4'	4'	4'
MINIMUM AREAS (SQUARE FEET)				
WET STORAGE SURFACE AREA (AW)	3,843	1,517	3,055	1,620
DRY STORAGE SURFACE AREA (AD)	9,223	3,641	7,332	3,888

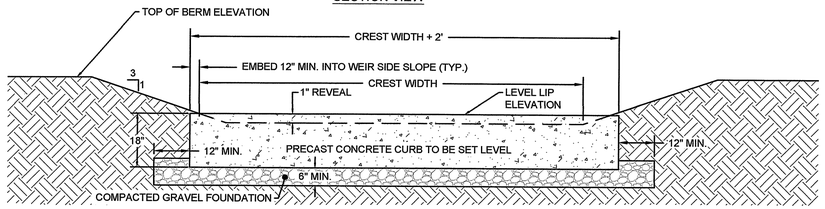
1/13 TYPICAL TEMPORARY SEDIMENT TRAPS
SCALE: NTS



2/13 TYPICAL TEMPORARY DIVERSION
SCALE: NTS



SECTION VIEW

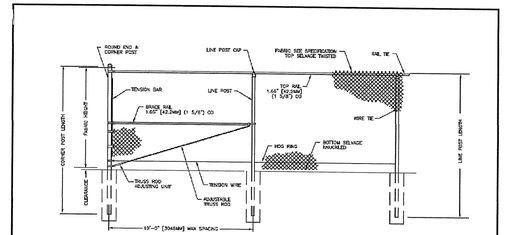


PROFILE VIEW

LOCATION	LEVEL LIP ELEVATION	CREST WIDTH (FT)	RIP RAP THICKNESS (IN)	RIP RAP GRADATION
BASIN 1	182.50	15	12	R-3
BASIN 2	175.50	20	12	R-3
BASIN 3	179.10	10	12	R-3
BASIN 4	174.50	10	12	R-3

NOTES:
1. CONCRETE CURB SHALL BE SET LEVEL ON A COMPACTED GRAVEL BORROW SUBBASE BEDDING
2. CURB JOINTS SHALL BE SEALED WITH NON-SHRINK GROUT TO PROVIDE A CONTINUOUS FLAT TOP SURFACE.

4/13 TYPICAL EMERGENCY SPILLWAY
SCALE: NTS



TYPICAL FENCE ELEVATION / SECTION

TOP RAIL / TRUSSED BRACE RAIL
BOTTOM TENSION WIRE

NOTES:
1. DESIGN AND SPECIFICATION SUBJECT TO CHANGE.
2. FOOTING AND POSTS AS REQUIRED BY SITE CONDITIONS & CODES.

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CHAIN LINK
TYPICAL FENCE ELEVATION / SECTION
BY: FJR 05.19.05 | SCALE: NTS | DWG #: CL10
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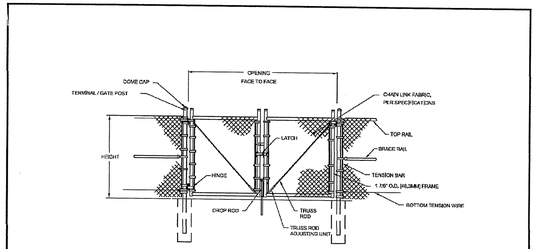
NOTES:
1. FINAL FENCE DETAIL TO BE SELECTED BY OWNER.
2. INSTALL FENCE PER MANUFACTURER INSTRUCTIONS.
3. FENCE POSTS TO BE PILE DRIVEN EXCEPT AT CORNERS AND GATES WHICH SHALL BE SET IN CONCRETE.
4. FENCE HEIGHT SHALL BE 7 FEET.
5. PROVIDE 6-8 INCH CLEARANCE BENEATH THE FENCE ALONG AT LEAST ONE THIRD OF EACH SIDE OF THE FENCE.

3/13 TYPICAL 7-FT CHAIN LINK FENCE
SCALE: NTS



TYPICAL DOUBLE SWING GATE ELEVATION / SECTION

TOP RAIL / TRUSSED BRACE RAIL
BOTTOM TENSION WIRE

NOTES:
DESIGN AND SPECIFICATION SUBJECT TO CHANGE
VERTICAL & HORIZONTAL MEMBERS MAXIMUM 8' O.C.
FOOTING AND POSTS AS REQUIRED BY SITE CONDITIONS & CODES

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CHAIN LINK
DOUBLE SWING GATE ELEVATION / SECTION
BY: ART 2.11.10 | SCALE: NTS | DWG #: CL12
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DATED: JUL 20 2022 FILE #: 22-0160
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy A. Freeman

NOTES:
1. FINAL GATE DETAIL TO BE SELECTED BY OWNER.
2. INSTALL GATE PER MANUFACTURER INSTRUCTIONS.
3. GATE POSTS SHALL BE SET IN CONCRETE.
4. FENCE HEIGHT SHALL BE 7 FEET, GATE OPENING WIDTH PER PLAN.

5/13 TYPICAL VEHICLE GATE
SCALE: NTS

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2022.05.02 17:55:23 -04'00'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION DETAILS

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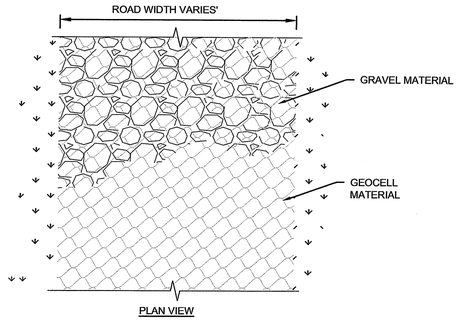
D-2

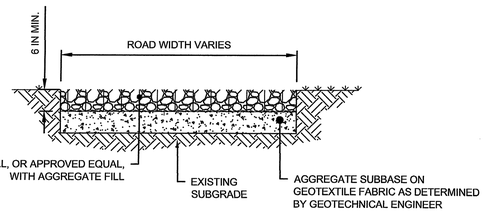
PROJECT NO: N532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 13 OF 16

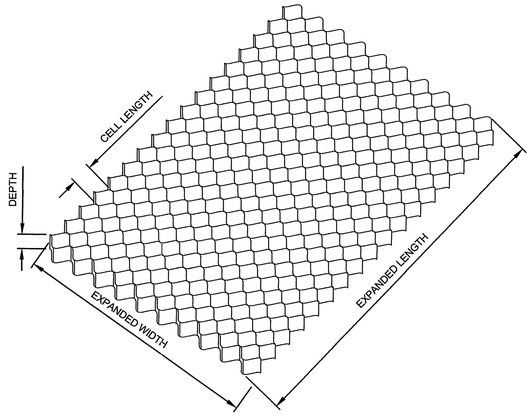
RI Environmental Management
MAY 05 2022
Office of Water Resources

DATE: May 02, 2022 - 3:12PM
FILE: N:\Projects\N500-N599\N532-000 Nicolllua Solar~ Exeter Ten Solar~ Design and Permitting\04 - Design\CAD\Drawings\N532A PDV\N532A-000 Exeter Ten Solar PD Details.dwg

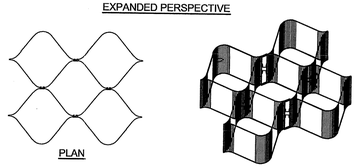


PLAN VIEW



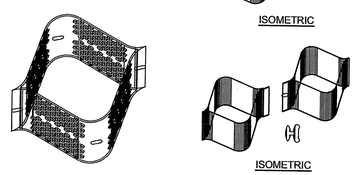


EXPANDED PERSPECTIVE



PLAN

ISOMETRIC



PERFORATED STRIP WITH I-SLOT

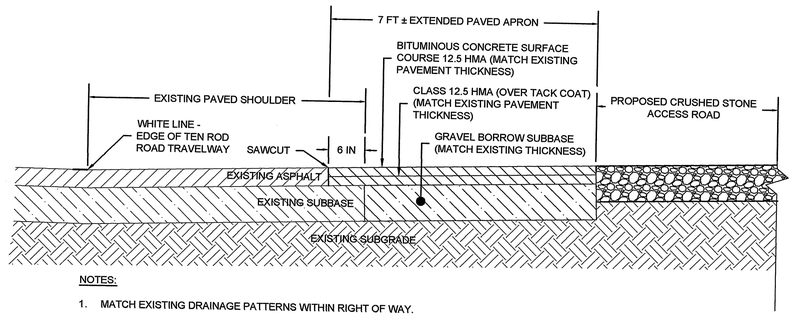
ISOMETRIC

CELLULAR CONFINEMENT SYSTEM - GEOCELL OR APPROVED EQUAL

NOTES:

1. GEOCELL FILL MATERIAL SHALL CONSIST OF CLEAN, WASHED, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF RIDOT M.01.09, TABLE I, COLUMN II. CRUSHED STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. CRUSHED STONE SURFACE MATERIAL SHALL NOT BE COMPACTED.
2. GEOCELL REINFORCEMENT IS TO BE INSTALLED FROM STATION 2+35 TO END OF ROAD, REFER TO DRAWING NUMBERS C-1 AND P-1 FOR LOCATIONS.

1/14 TYPICAL REINFORCED ACCESS ROAD
SCALE: NTS



NOTES:

1. MATCH EXISTING DRAINAGE PATTERNS WITHIN RIGHT OF WAY.
2. SAW CUT EXISTING PAVEMENT 6 INCHES FROM EDGE OF PAVEMENT. TACK COAT FACE BEFORE PAVING.

2/14 TYPICAL PAVED APRON
SCALE: NTS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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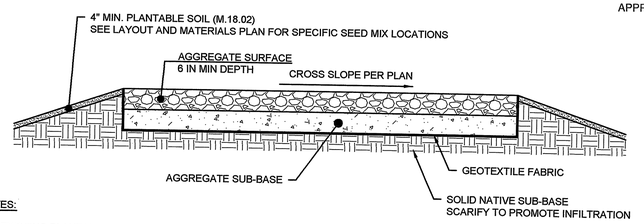

NOTES:

1. EXISTING PLANTABLE SOIL SHALL BE REMOVED UNTIL A SOLID NATIVE SUB-BASE HAS BEEN REACHED.
2. A GEOTEXTILE FABRIC SHALL BE INSTALLED ON TOP OF THE SOLID NATIVE SUB-BASE BEFORE THE AGGREGATE SUB-BASE IS INSTALLED.
3. THE AGGREGATE SURFACE SHALL BE A MINIMUM OF 6 INCHES IN DEPTH AND CONSTRUCTED COMPLETELY OUT OF WASHED ANGULAR CRUSHED STONE OR WASHED CRUSHED GRAVEL MEETING THE GRADATION OF RIDOT M.01.09 TABLE I, COLUMN II.
4. THE AGGREGATE SUB-BASE SHALL BE A MINIMUM OF 12 INCHES IN DEPTH AND CONSTRUCTED COMPLETELY OUT OF ANGULAR GRAVEL BORROW MEETING THE GRADATION OF RIDOT M.01.09 TABLE I, COLUMN I, TYPE IA .
5. AGGREGATE COMPACTION SHALL BE A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY COMPACTED IN 6 INCH LIFTS.
6. DETAIL INCORPORATES GRAVEL ACCESS ROAD DESIGN RECOMMENDATIONS INCLUDED IN THE "GEOTECHNICAL ENGINEERING REPORT" PREPARED BY TERRACON CONSULTANTS, INC., DATED JULY 5, 2018.

3/14 TYPICAL ACCESS ROAD
SCALE: NTS

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2022.05.02 17:54:10 -04'00'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION DETAILS

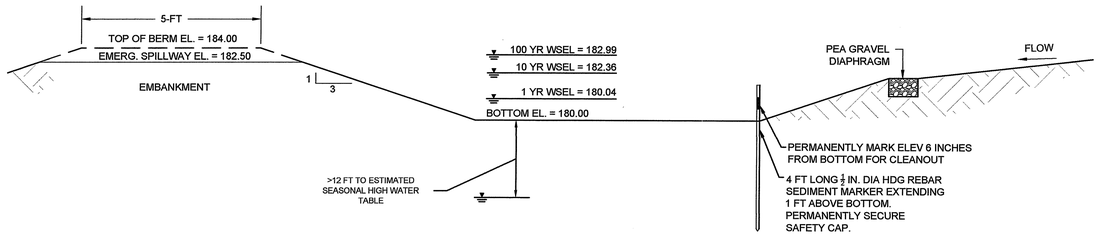
FOR PERMITTING ONLY

D-3

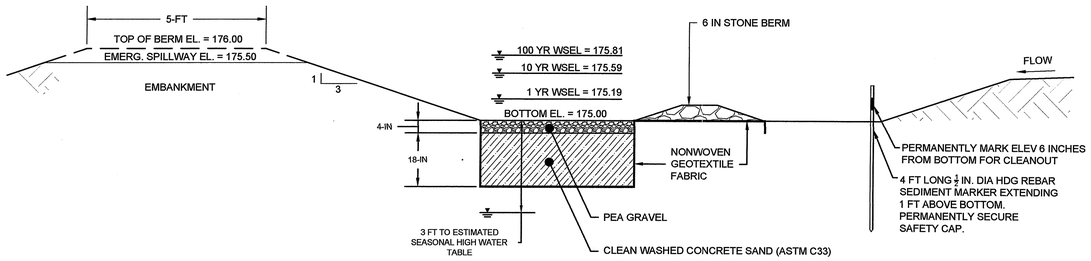
PROJECT NO: N532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 14 OF 16

RI Environmental Management
MAY 05 2022
Office of Water Resources

DATE: May 02, 2022 - 3:12PM
FILENAME: G:\Waltham\Data\N532-000 Houltra Solar— Exeter Ten Solar— Design and Permitting\04 GRAPHICS\CAD\Drawings\VERSM PD\N532-000 Exeter Ten Solar PD Details.dwg



1/15 BASIN 1 TYPICAL DETAIL
SCALE: NTS



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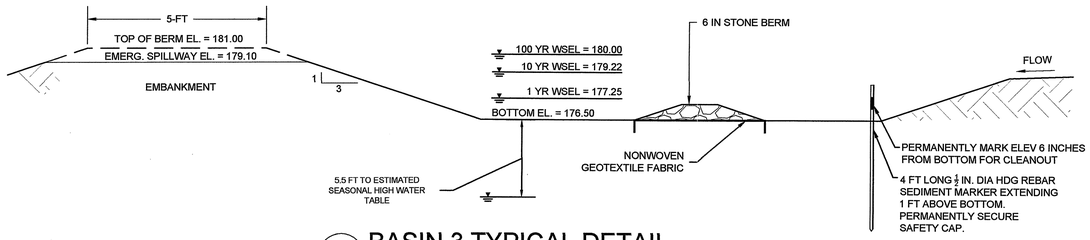
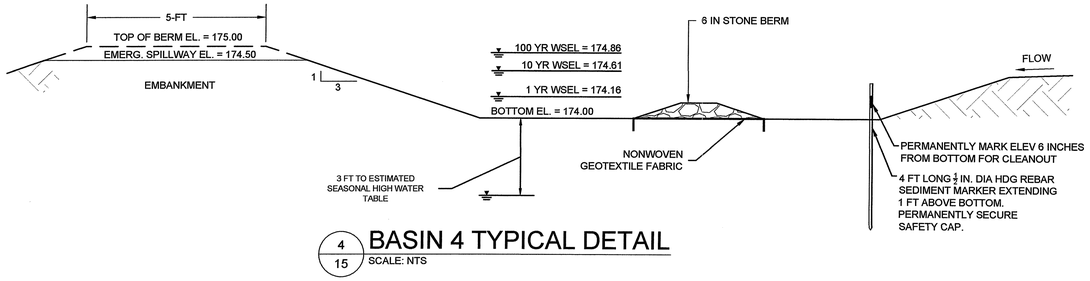
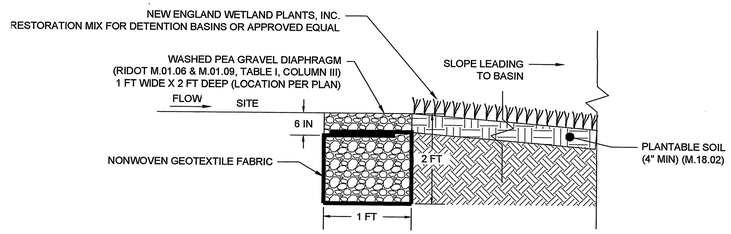
SCALE: NTS



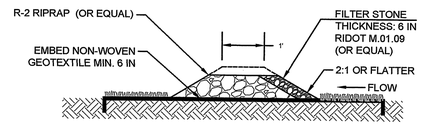
3/15 BASIN 3 TYPICAL DETAIL
SCALE: NTS



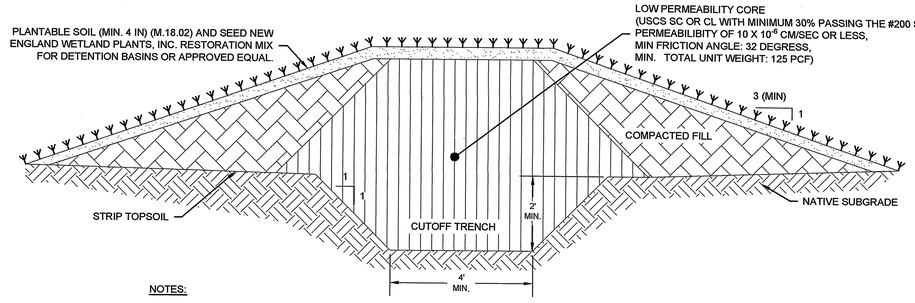
4/15 BASIN 4 TYPICAL DETAIL
SCALE: NTS



5/15 TYPICAL PEA GRAVEL DIAPHRAGM
SCALE: NTS



6/15 TYPICAL STONE BERM
SCALE: NTS



NOTES:

1. SEE STORMWATER BASIN NOTES ON DRAWING N-2
2. EMBANKMENT SHALL BE STABILIZED WITH A MINIMUM OF 4 INCHES OF PLANTABLE SOIL AND SEED OR FILTER FABRIC AND RIP-RAP AS SHOWN.
3. LOW PERMEABILITY CORE NOT REQUIRED FOR BASIN 2 OR BASIN 4.

7/15 TYPICAL BASIN EMBANKMENT CROSS SECTION
SCALE: NTS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0180
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

ess group
environmental consulting & engineering services
404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

RENEW SOLAR RI EXETER TEN, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2022.05.02 17:52:40 -04'00'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION DETAILS

FOR PERMITTING ONLY

D-4

PROJECT NO: N532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 15 OF 16

RI Environmental Management
MAY 05 2022
Office of Water Resources

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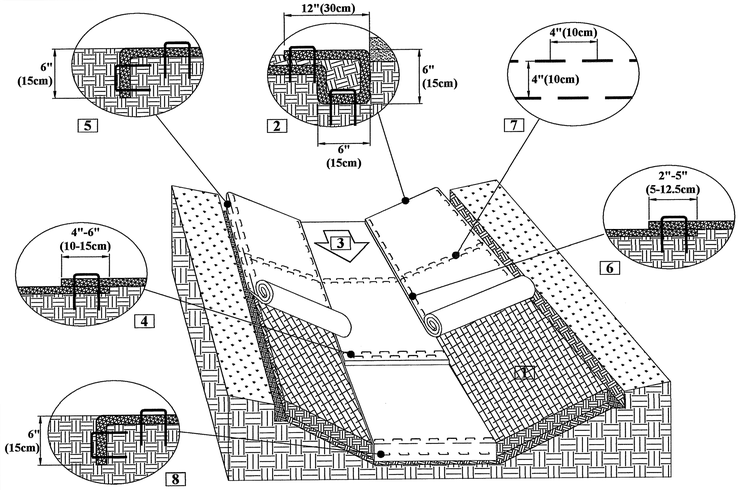
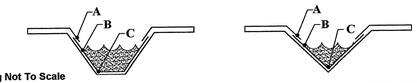
PLOTTED: May 05, 2022 - 3:07pm
FILENAME: G:\Projects\N532-000 NextEra Solar\~ Exeter Ten Solar\~ Design and Permitting\04 GRAPHICS\CAD\Drawings\RIDEM PD\N532-000 Exeter Ten Solar PD Details.dwg



CRITICAL POINTS
A. Overlaps and Seams
B. Projected Water Line
C. Channel Bottom/Side Slope Vertices



Drawing Not To Scale

NOTES:
*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

**In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECP's.

NORTH AMERICAN GREEN
5401 St. Wendel - Cynthiana Rd. PH: 800-722-2040
Poseyville, IN 47633 www.nagreen.com

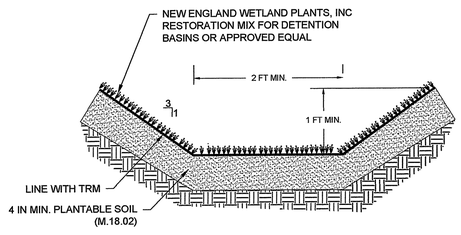
Disclaimer:
The information presented herein is general design information only. For specific applications, consult an independent professional for further design guidance.

Drawn on: 5-4-17

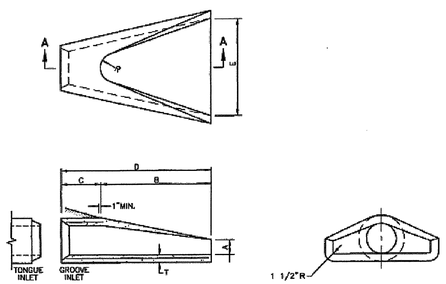
CHANNEL INSTALLATION DETAIL

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the channel by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs.
3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. Place consecutive RECPs end-over-end (Shingle style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent RECPs must be overlapped approximately 2"-5" (5-12.5cm) (Depending on RECPs type) and stapled.
7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 -12m) intervals. Use a double row of staples staggered 4"(10cm) apart and 4"(10cm) on center over entire width of the channel.
8. The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12" (30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.

1/16 TYPICAL TURF REINFORCEMENT MAT (TRM)
SCALE: NTS



2/16 TYPICAL GRASS CHANNEL
SCALE: NTS



SECTION A–A

END ELEVATION

DIMENSIONS								REINFORCEMENT
DIA.	A	B	C	D	E	R	T	ONE LAYER REINFORCEMENT IN CENTER OF WALL MIN. AREA OF EACH WAY (SQ. IN./FT.)
1'-0"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	9"	2"	0.048
1'-3"	6"	2'-3"	3'-10"	6'-1"	2'-6"	11"	2 1/4"	0.054
1'-6"	9"	2'-3"	3'-10"	6'-1"	3'-0"	12"	2 1/2"	0.060
2'-0"	9 1/2"	3'-7 1/2"	2'-8"	6'-1 1/2"	4'-0"	1'-2"	3"	0.072
2'-6"	1'-0"	4'-8"	1'-7 3/4"	6'-1 3/4"	5'-0"	1'-3"	3 1/2"	0.084
3'-0"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	1'-8"	4"	0.096
3'-6"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	1'-10"	4 1/2"	0.108
4'-0"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	1'-10"	5"	0.120
4'-6"	2'-3"	5'-5"	2'-11"	8'-4"	7'-6"	2'-0"	5 1/2"	0.132
5'-0"	2'-6"	5'-0"	3'-3"	8'-3"	8'-0"	2'-0"	6"	0.144

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

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

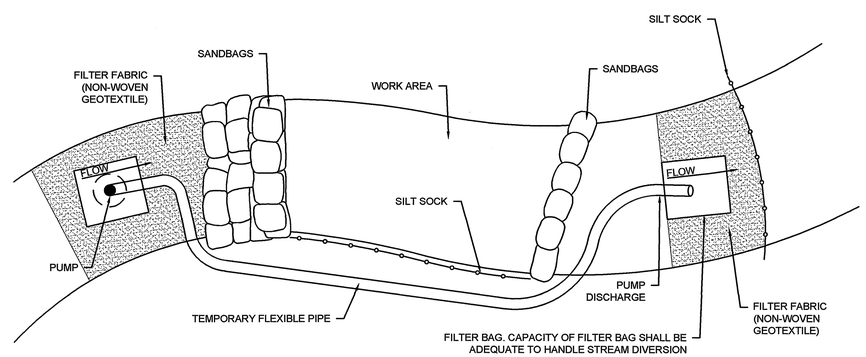
PRECAST CONCRETE FLARED END SECTION

REVISIONS		
NO.	BY	DATE

CHIEF ENGINEER, RHODE ISLAND DEPARTMENT OF TRANSPORTATION — CHIEF OFFICER, HIGHWAYS DIVISION — JUNE 15, 1998 RIDE DATE

R.I. STANDARD 2.3.0

3/16 TYPICAL CONCRETE FLARED END
SCALE: NTS



NOTES:

1. INSTALL TEMPORARY SANDBAGS AND SILT SOCK OR EQUIVALENT TO MAINTAIN A DRY WORK AREA FOR CONSTRUCTION ACTIVITIES AND TO PREVENT SEDIMENTATION.
2. SANDBAGS TO BE LOCATED UPSTREAM OF THE WORK AREA AND DOWNSTREAM OF THE WORK AREA. A TEMPORARY FLEXIBLE PIPE SHALL CONVEY FLOW AROUND THE WORK AREA.
3. SIZE AND PROVIDE A TEMPORARY FLEXIBLE PIPE TO BE WITH ADEQUATE CAPACITY TO MAINTAIN BASE STREAM FLOW.
4. DIVERSION PUMP AND DISCHARGE LINE SIZE AND TYPE TO BE DETERMINED BY CONTRACTOR BASED ON DEWATER OPERATIONS.

4/16 TYPICAL CULVERT DIVERSION
SCALE: NTS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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DATED: JUL 20 2022 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
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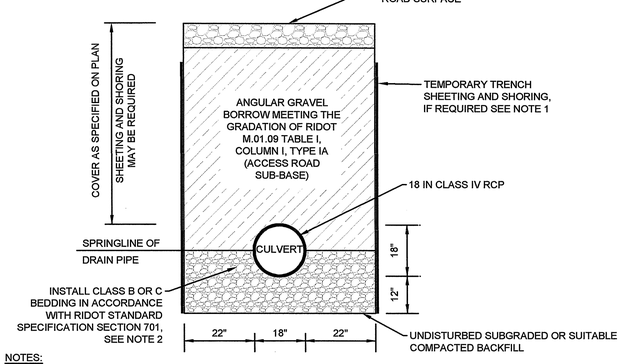
Nancy L. Freeman



NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS TO THE ENGINEER FOR TEMPORARY SHEETING AND SHORING FOR ALL UTILITY TRENCH WORK REQUIRING STABILIZATION DURING CONSTRUCTION.
2. DRAIN PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 701 - CULVERTS AND STORM DRAINS AND SECTION 205 - TRENCH EXCAVATION OF THE MOST RECENT RIDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

5/16 TYPICAL CULVERT REPLACEMENT
SCALE: NTS

ess group
environmental consulting & engineering services
404 Wyman Street, Suite 375
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

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RENEW SOLAR RI EXETER TEN, LLC
396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

EXETER TEN SOLAR
AP 37 BLOCK 1 LOT 5
590 TEN ROD ROAD
EXETER, RI 02822

JASON M. GOLD
No. 7788
REGISTERED PROFESSIONAL ENGINEER
CIVIL

2022.05.02 17:52:10 -04'00'

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: GJR | DESIGNED BY: JMG | CHECKED BY: JMG

RIDEM PRELIMINARY DETERMINATION DETAILS

FOR PERMITTING ONLY

D-5

PROJECT NO: N532-000
DATE OF ISSUE: 5/2/2022
SHEET NO: 16 OF 16

RI Environmental Management
MAY 05 2022
Office of Water Resources

DATE: May 02, 2022 - 3:12PM
FILENAME: G:\Waltham\Jobs\N532-000 Renew Solar- Exeter Ten Solar- Design and Permitting\04 DRAWINGS\CAD\Drawings\N000M PDI\N532-000 Exeter Ten Solar PD Details.dwg

RT 102 - TEN ROD ROAD

(AKA VICTORY HIGHWAY)

(PUBLIC - VARIABLE WIDTH)

POB (BK. 217, PG. 148) & SURVEYOR'S DESCRIPTION

RHODE ISLAND HIGHWAY BOUNDARY

MAP 37 - BLOCK 1 - LOT 8
N/F LANDS OF
STEPHEN R. MATTSCHECK
BK. 105, PG. 817
#628 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 9
N/F LANDS OF
STEPHEN P. MATTSCHECK
(PER TOWN GIS)
#0 HALLVILLE ROAD

MAP 37 - BLOCK 1 - LOT 14
N/F LANDS OF
NICOLA RAINONE, JR. &
KATHLEEN S. RAINONE
(PER TOWN GIS)
#120 HALLVILLE ROAD

MAP 37 - BLOCK 1 - LOT 7
N/F LANDS OF
MATTHEW B. ARMSTRONG
BK. 534, PG. 303
#554 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 6
N/F LANDS OF
BRIAN T. MAUHS
BK. 527, PG. 56
#544 TEN ROD ROAD

MAP 37 - BLOCK 1 - LOT 5
N/F LANDS OF
ELIZABETH MARSHALL &
JAMES MARSHALL
BK. 217, PG. 148
#590 TEN ROD ROAD, EXETER, RI

AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES

MAP 37 - BLOCK 1 - LOT 16
N/F LANDS OF
PATRICIA M. MASTORS
REVOCABLE TRUST
BK. 546, PG. 152
#130 HALLVILLE ROAD

MAP 37 - BLOCK 5 - LOT 3
N/F LANDS OF
DAVID E. PAYETTE &
JENNIFER W. PAYETTE
BK. 394, PG. 311
#5 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 4
N/F LANDS OF
MARVIN M. PELSER, JR. &
SHARON A. PELSER
(PER TOWN GIS)
#17 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 5
N/F LANDS OF
PATRICIA HOWLAND &
MATTHEW HOWLAND
BK. 392, PG. 126
#29 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 6
N/F LANDS OF
PAUL R. STORTI &
CHARLENE M. STORTI
BK. 54, PG. 522
#35 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 14
N/F LANDS OF
CRAIG ALAN SWANSON
BK. 399, PG. 237
#59 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 15
N/F LANDS OF
THERESA C. DONOVAN &
WILLIAM G. DONOVAN
BK. 106, PG. 324
#75 LOCUST VALLEY ROAD

MAP 37 - BLOCK 5 - LOT 16
N/F LANDS OF
MARK F. MONAHAN
BK. 337, PG. 304
#85 LOCUST VALLEY ROAD

TBM-A

TBM-B

RHODE ISLAND STATE PLANE COORDINATE SYSTEM - HAD 83

TABLE OF APPARENT ENCROACHMENTS

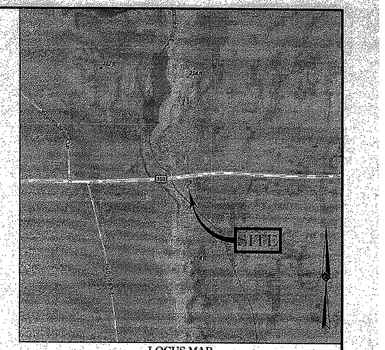
A MEANDERING FENCELINES AND STONE WALLS ALONG EASTERLY AND WESTERLY BOUNDARIES OF SURVEYED PARCEL AS WELL AS THROUGH THE PARCEL. FENCE AND WALL ALONG THE BOUNDARIES OWNERSHIP UNKNOWN. FENCELINE O - 2.5' OFFSET FOR 1600'± ALONG WESTERLY BOUNDARY AND O - 9.6' OFFSET FOR 1890'± ALONG EASTERLY BOUNDARY. STONEWALLS AND STONEWALL REMAINS O - 2.9' OFFSET FOR 900'± ALONG WESTERLY BOUNDARY AND 0 - 39' OFFSET FOR 340'± ALONG EASTERLY BOUNDARY.

B STONE WALL ENTERS LOT 15 BY UP TO 38.4', LOT 9 BY AS MUCH AS 2.7', LOT 3 BY AS MUCH AS 13.1', AND LOT 4 BY AS MUCH AS 8.5'.

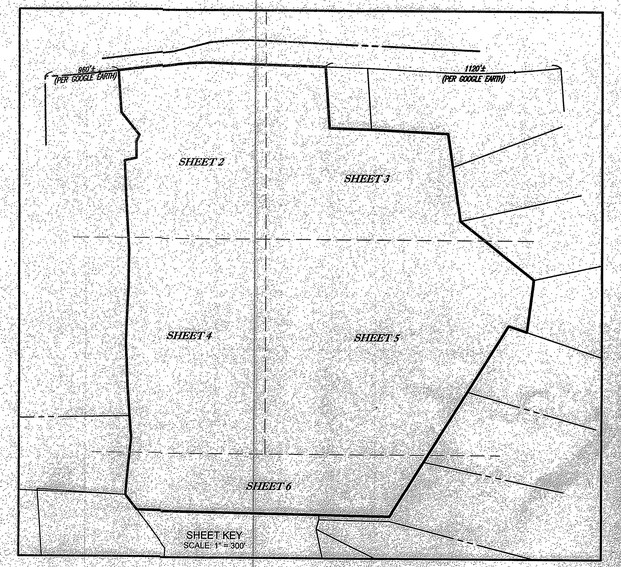
NOTE: THESE ARE THE POSSIBLE ENCROACHMENTS OBSERVED DURING THE FIELD SURVEY. THERE MAY BE OTHERS NOT RECOGNIZED BY THE SURVEYOR.

LEGEND

- TREE LINE
- WETLAND FLAG & NO.
- RHWB RHODE ISLAND HIGHWAY BOUND FOUND
- 1.0' OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE
- (S) SURVEY DIMENSION
- (D) DEED DIMENSION
- (7) TITLE REPORT EXCEPTION
- [A] POSSIBLE ENCROACHMENT LOCATION



LOCUS MAP
©2013 ESRI WORLD STREET MAPS
NOT TO SCALE



SHEET KEY
SCALE: 1" = 300'

REFERENCES

1. THE TAX ASSESSOR'S MAP OF TOWN OF EXETER, WASHINGTON COUNTY, MAP 37.
2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, WASHINGTON COUNTY, RI (ALL JURISDICTIONS) PANEL 80 OF 368," COMMUNITY-PANEL NUMBER 44009C0080J, MAP REVISED: APRIL 3, 2020.
3. MAP ENTITLED "LOCUST VALLEY SECTION TWO" AS PREPARED BY RICHARD F. DIETZ, REG CIVIL ENGR. DATED APRIL 1983 AS FILED IN THE TOWN OF EXETER CLERK'S OFFICE AS PLAT NO. 89.
4. MAP ENTITLED "MAP OF LOCUST VALLEY, SECTION ONE" DATED MARCH 26, 1951 AS PREPARED BY ALFRED E. HANSEN ASSOCIATES, INC. AS FILED IN THE TOWN OF EXETER CLERK'S OFFICE AS PLAT NO. 74.
5. MAP ENTITLED "ALTA/NSPS LAND TITLE SURVEY RI B&C PROJECT NO. 201801260; 002 590 TEN ROD ROAD, EXETER, RI", PREPARED FOR: BOCK & CLARK CORPORATION, PREPARED BY: RAVI ENGINEERING & LAND SURVEY PC, DATED: JULY 10, 2018.
6. MAP ENTITLED "SITE PLAN RENEW SOLAR RI EXETER TEN LLC 590 TEN ROD ROAD", PREPARED BY: TRC ENGINEERING INC, DATED: JULY 2, 2018, SHEETS C-2.1 C-3, & C-4.
7. ELECTRONIC SHAPE FILES OF STREAM AND WETLAND LOCATIONS, PROVIDED BY CLIENT.

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Wendy L. Freeman

SCALE
100 0 50 100 200 400
(IN FEET)
1 inch = 100 ft.

THIS SURVEY IS CERTIFIED TO:
RENEW SOLAR RI EXETER TEN LLC
FIRST AMERICAN TITLE INSURANCE COMPANY
JAMES MARSHALL

No.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
1	REVISED TO ADD TOPOGRAPHIC DETAIL OVER PORTION OF SITE	B.S.B.	B.A.V.	J.P.L.	4-01-2022

FIELD DATE:	9-23-2020 12-13-2021 12-1-2020
FIELD BOOK NO:	21-16 MA 21-MA 20-17 MA
FIELD BOOK PG:	83 - 149-150 23-24
FIELD CREW:	B.S.B.
DRAWN:	B.A.V.
REVIEWED:	S.P.P.
APPROVED:	J.P.L.
DATE:	12-21-2020
SCALE:	1" = 100'
FILE NO:	03-200321-00
DWG NO:	1 OF 6

ALTA/NSPS LAND TITLE SURVEY
RENEW SOLAR RI EXETER TEN LLC
590 TEN ROD ROAD
MAP 37, BLOCK 1, LOT 5
TOWN OF EXETER, WASHINGTON COUNTY
STATE OF RHODE ISLAND

CONTROL POINT ASSOCIATES, INC.
332 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
508.948.3000 - 508.948.3003 FAX
WWW.CPASURVEY.COM
ALBANY, NY 518-217-3010
CHALFONT, PA 215-712-9800
HAUPPAUGE, NY 631-580-2645
MANHATTAN, NY 646-780-0413
MT LAUREL, NJ 609-857-2099
WARREN, NJ 908-668-0099

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON DECEMBER 31, 2020 AS FOLLOWS:

1. TYPE OF BOUNDARY SURVEY: MEASUREMENT SPECIFICATION
   COMPREHENSIVE BOUNDARY SURVEY: 1
2. OTHER TYPE OF SURVEY: MEASUREMENT SPECIFICATION
   DATA ACCUMULATION SURVEY: III
   (PLANIMETRIC SURVEY, TOPOGRAPHIC SURVEY)
   VERTICAL CONTROL STANDARD: V-3
   TOPOGRAPHIC SURVEY ACCURACY: T-2
3. THE PURPOSE FOR THE CONDUCT OF THE SURVEY AND FOR THE PREPARATION OF THIS PLAN IS AS FOLLOWS:
   PREPARE ALTA/NSPS LAND TITLE SURVEY AND OBTAIN TOPOGRAPHIC AND PLANIMETRIC INFORMATION TO BE UTILIZED FOR CONVEYANCE OF THE PROPERTY AND AS A BACKGROUND DOCUMENT FOR SITE PLAN PREPARATION

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NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR BLUE INK SEAL

JOHN P. LYNCH
No. 1925
PROFESSIONAL LAND SURVEYOR

RI Environmental Management
MAY 05 2022
Office of Water Resources

JOHN P LYNCH
RHODE ISLAND PROFESSIONAL LAND SURVEYOR #1925
CERTIFICATE OF AUTHORIZATION NUMBER A350

DATE: 4-01-2022

SEE SHEET 6 OF 6 FOR NOTES
SEE SHEET 2 OF 6 FOR EXHIBIT A - LEGAL DESCRIPTION
SEE SHEET 2 THRU 6 OF 6 FOR PLANIMETRIC DETAIL
SEE SHEET 4 OF 6 FOR SURVEYOR'S DESCRIPTION

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DIG SAFE
811 OR 1-888-344-7233
STOP! CALL BEFORE YOU DIG!
THE STATE OF RHODE ISLAND REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.

RT 102 - TEN ROD ROAD

(AKA VICTORY HIGHWAY)
(PUBLIC - VARIABLE WIDTH

RHODE ISLAND HIGHWAY BOUNDARY
S88°22'35"E
278.47' (S)
277.89' (R)

N83°17'53"E
247.87' (S)
237.62' (R)

S88°15'12"E
182.38' (S)
156.42' (R)

180°7'23" (S)

R=1074.39' (S) 1230.08' (R)
Δ=005°26'55"
L=155.43' (S) 194.83' (R)
CHB=N87°31'20"E
CHD=158.28'

POB
(BK. 217, PG. 148)
& SURVEYOR'S
DESCRIPTION

S25°35'50" (S)
S25°56'07" (R)

309.5

121.7

23.5'

23.5'

30.9'

APPROX LOC OF FLOOD ZONE LINE (PER REF #)

ZONE "A-UNNUMBERED"

ZONE "X"

ZONE "X-UNNUMBERED"

APPROX LOC OF FLOOD ZONE LINE (PER REF #2)

ZONE "X-UNNUMBERED"

ZONE "X"

APPROX LOC OF FLOOD ZONE LINE (PER REF #2)

ZONE "X-UNNUMBERED"

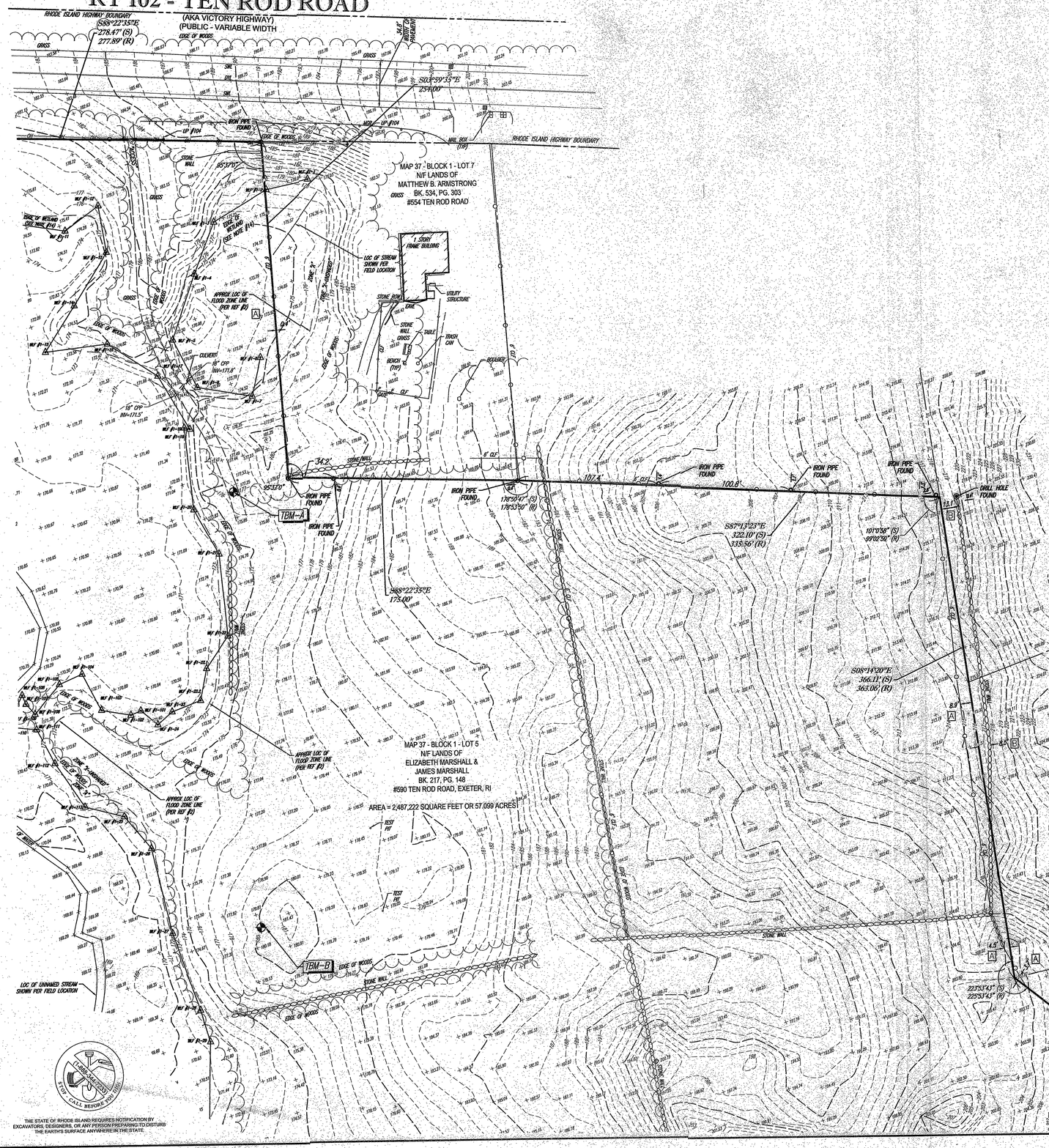
ZONE "X"

APPROX LOC OF FLOOD ZONE LINE (PER REF #2)

ZONE "X"

ZONE "X-UNNUMBERED

RT 102 - TEN ROD ROAD



RHODE ISLAND STATE PLANE COORDINATE SYSTEM - NAD 83

LEGEND

124 / 125	EXISTING CONTOUR
× 123.45	EXISTING SPOT ELEVATION
× TC 123.45	EXISTING TOP OF CURB ELEVATION
× G 122.85	EXISTING GROUND ELEVATION
× TW 123.45	EXISTING TOP OF WALL ELEVATION
× BW 122.85	EXISTING BOTTOM OF WALL ELEVATION
× 122.85	EXISTING SPOT GRADE ELEVATION
OH	OVERHEAD WIRES
UP #	UTILITY POLE
GW	GUY WIRE
	METAL GUIDE RAIL
CB	CATCH BASIN OR INLET
	TREE LINE
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WF #	WETLAND FLAG & NO.
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BFPA	BUILDING FOOTPRINT AREA
RIHB	RHODE ISLAND HIGHWAY BOUND FOUND
CLF	CHAIN LINK FENCE
EOP	EDGE OF PAVEMENT
1.0'	OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE
(S)	SURVEY DIMENSION
(D)	DEED DIMENSION
7	TITLE REPORT EXCEPTION
A	POSSIBLE ENCROACHMENT LOCATION

SEE SHEET 4 OF 6 FOR SURVEYOR'S DESCRIPTION

SEE SHEET 6 OF 6 FOR NOTES

SEE SHEET 1 OF 6 FOR OVERALL BOUNDARY & REFERENCES

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

THIS SURVEY IS CERTIFIED TO:
RENEW SOLAR RI EXETER TEN LLC
FIRST AMERICAN TITLE INSURANCE COMPANY
JAMES MARSHALL

No	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
1.	REVISED TO ADD TOPOGRAPHIC DETAIL OVER PORTION OF SITE	B.S.B.	B.A.V.	J.P.L.	4-01-2022

FIELD DATE
3-23-2022
12-13-2021
12-1-2020

FIELD BOOK NO
21-115 MA
21-MA
20-117-MA

FIELD BOOK PG
93
149-150
23-24

FIELD CREW:
B.S.B

DRAWN:
B.A.V

REVIEWED:
S.P.P.

ALTA/NSPS LAND TITLE SURVEY
RENEW SOLAR RI EXETER TEN LLC

590 TEN ROD ROAD
MAP 37, BLOCK 1, LOT 5
TOWN OF EXETER, WASHINGTON COUNTY
STATE OF RHODE ISLAND

CONTROL POINT ASSOCIATES, INC
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
508.948.3000 508.948.3003 FAX
WWW.CPASURVEY.COM

ALBANY, NY 518-217-5010
CHALFONT, PA 215-712-9800
HAUPPAUGE, NY 631-580-2445
MANHATTAN, NY 646-780-0411
MT LAUREL, NJ 609-857-2099
WARREN, NJ 908-668-0099

APPROVED:	DATE	SCALE	FILE NO.	DWG. NO.	
J.P.L.	12-21-2020	1" = 40'	03-200321-00	3 OF	6

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON DECEMBER 31, 2020 AS FOLLOWS:

1. TYPE OF BOUNDARY SURVEY — MEASUREMENT SPECIFICATION:
   COMPREHENSIVE BOUNDARY SURVEY — I
2. OTHER TYPE OF SURVEY: — MEASUREMENT SPECIFICATION:
   DATA ACCUMULATION SURVEY — III
   (PLANIMETRIC SURVEY, TOPOGRAPHIC SURVEY)
   VERTICAL CONTROL STANDARD — V-3
   TOPOGRAPHIC SURVEY ACCURACY — T-2
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RI Environmental Management
MAY 05 2022
Office of Water Resources

JOHN P. LYNCH
No. 1925
PROFESSIONAL LAND SURVEYOR

JOHN P. LYNCH — DATE: 4-01-2022
RHODE ISLAND PROFESSIONAL LAND SURVEYOR #1925
CERTIFICATE OF AUTHORIZATION NUMBER A350

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SURVEYOR'S
METES AND BOUNDS DESCRIPTION
LOT 5, BLOCK 1, MAP 37
TOWN OF EXETER, WASHINGTON COUNTY, RHODE ISLAND

BEGINNING AT A POINT ON THE SOUTHERLY LINE OF ROUTE 102, AKA TEN ROD ROAD AT A CORNER IN COMMON WITH LOT 8, BLOCK 1, MAP 37 (N/F LANDS OF STEPHEN R. MATTSCHECK), RUNNING THENCE;

1. WITH THE SOUTHERLY LINE OF ROUTE 102, AKA TEN ROD ROAD, NORTH 83 DEGREES - 17 MINUTES - 53 SECONDS EAST, A DISTANCE OF 247.87 FEET TO A POINT, RUNNING THENCE;
2. WITH A CURVE TURNING TO THE RIGHT ALONG SAID SOUTHERLY LINE OF ROUTE 102 WITH AN ARC LENGTH OF 158.43 FEET, A RADIUS OF 1074.39 FEET, HAVING AN INTERNAL ANGLE OF 08 DEGREES - 26 MINUTES - 55 SECONDS AND A CHORD BEARING OF NORTH 87 DEGREES - 31 MINUTES - 20 SECONDS EAST AND CHORD LENGTH OF 158.28 FEET, TO A RHODE ISLAND HIGHWAY BOUND FOUND, RUNNING THENCE;
3. WITH THE SOUTHERLY LINE OF SAID ROUTE 102, SOUTH 88 DEGREES - 15 MINUTES - 12 SECONDS EAST, A DISTANCE OF 182.38 FEET TO A RHODE ISLAND HIGHWAY BOUND FOUND, RUNNING THENCE;
4. WITH THE SOUTHERLY LINE OF SAID ROUTE 102, AT AN INTERIOR ANGLE OF 108 DEGREES - 07 MINUTES - 23 SECONDS AT A BEARING SOUTH 68 DEGREES - 22 MINUTES - 35 SECONDS EAST, A DISTANCE OF 278.47 FEET TO AN IRON PIPE FOUND AT CORNER IN COMMON WITH LOT 7, BLOCK 1, MAP 37 (N/F LANDS OF MATHEW B. ARMSTRONG), RUNNING THENCE;
5. ALONG THE DIVIDING BETWEEN SAID LOT 7 AND LOT 5 AT AN INTERIOR ANGLE OF 95 DEGREES - 37 MINUTES - 00 SECONDS AT A BEARING OF SOUTH 03 DEGREES - 59 MINUTES - 35 SECONDS EAST, A DISTANCE OF 254.00 FEET TO AN IRON PIPE FOUND, RUNNING THENCE;
6. ALONG THE DIVIDING BETWEEN SAID LOT 7 AND LOT 5 AT AN INTERIOR ANGLE OF 264 DEGREES - 23 MINUTES - 00 SECONDS AT A BEARING OF SOUTH 88 DEGREES - 22 MINUTES - 35 SECONDS EAST, A DISTANCE OF 175.00 FEET TO AN IRON PIPE FOUND 0.4 FEET EAST OF A CORNER IN COMMON WITH LOT 6, BLOCK 1, MAP 37 (N/F LANDS OF BRIAN T. MAUHS), RUNNING THENCE;
7. ALONG THE DIVIDING LINE BETWEEN SAID LOT 6 AND LOT 5 AT AN INTERIOR ANGLE OF 178 DEGREES - 50 MINUTES - 47 SECONDS AT A BEARING OF SOUTH 87 DEGREES - 13 MINUTES - 23 SECONDS EAST, A DISTANCE OF 322.10 FEET TO POINT AT A CORNER IN COMMON WITH LOT 3, BLOCK 5, MAP 37 (N/F LANDS OF DAVID E. PAYETTE & JENNIFER W. PAYETTE), RUNNING THENCE;
8. ALONG THE DIVIDING LINE BETWEEN SAID LOT 3 & LOT 4, BLOCK 5, MAP 37 (N/F LANDS OF MARVIN M. PELSER, JR. & SHARON A. PELSER) WITH LOT 5 AT AN INTERIOR ANGLE OF 101 DEGREES - 00 MINUTES - 58 SECONDS AT A BEARING OF SOUTH 08 DEGREES - 14 MINUTES - 20 SECONDS EAST, A DISTANCE OF 366.11 FEET TO A POINT AT A CORNER IN COMMON WITH LOT 5, BLOCK 5, MAP 37 (N/F LANDS OF PATRICIA HOWLAND & MATTHEW HOWLAND; RUNNING THENCE;
9. ALONG THE DIVIDING LINE BETWEEN SAID LOT 5, BLOCK 5, MAP 37 AND LOT 5, BLOCK 1, MAP 37 AT AN INTERIOR ANGLE OF 223 DEGREES - 53 MINUTES - 43 SECONDS AT A BEARING OF SOUTH 52 DEGREES - 08 MINUTES - 03 SECONDS EAST, A DISTANCE OF 391.14 FEET TO A POINT 0.7 FEET WEST OF A GRANITE BOUND FOUND AT A CORNER IN COMMON WITH LOT 6, BLOCK 5, MAP 37 (N/F LANDS OF PAUL R. STORTI & CHARLENE M. STORTI), RUNNING THENCE;
10. ALONG THE DIVIDING LINE BETWEEN SAID LOT 6 AND LOT 5 AT AN INTERIOR ANGLE OF 120 DEGREES - 11 MINUTES - 28 SECONDS AT A BEARING OF SOUTH 07 DEGREES - 40 MINUTES - 29 SECONDS EAST, A DISTANCE OF 216.00 FEET TO A GRANITE BOUND FOUND AT CORNER IN COMMON WITH LOT 14, BLOCK 5, MAP 37 (N/F LANDS OF CRAIG ALEN SWANSON), RUNNING THENCE;
11. ALONG THE DIVIDING LINE BETWEEN SAID LOT 14 AND LOT 5 AT AN INTERIOR ANGLE OF 79 DEGREES - 27 MINUTES - 17 SECONDS AT A BEARING OF NORTH 71 DEGREES - 46 MINUTES - 48 SECONDS WEST, A DISTANCE OF 80.16 FEET TO A GRANITE BOUND FOUND AT A CORNER IN COMMON WITH SAID LOT 14, RUNNING THENCE;
12. ALONG THE DIVIDING LINE BETWEEN SAID LOT 14, LOT 15, BLOCK 5, MAP 37 (N/F LANDS OF THRESA C. DONOVAN & WILLIAM G. DONOVAN), & LOT 16, BLOCK 5, MAP 37 (N/F LANDS OF MARK F. MONAHAN) WITH LOT 5 AT AN INTERIOR ANGLE OF 299 DEGREES - 14 MINUTES - 34 SECONDS AT A BEARING OF SOUTH 31 DEGREES - 58 MINUTES - 38 SECONDS WEST, A DISTANCE OF 936.00 FEET TO A GRANITE BOUND FOUND AT A CORNER IN COMMON WITH SAID LOT 16, RUNNING THENCE;
13. ALONG THE DIVIDING LINE BETWEEN SAID LOT 16 & LOT 16, BLOCK 1, MAP 37 (N/F LANDS OF PATRICIA M. MASTORS REVOCABLE TRUST) AT AN INTERIOR ANGLE OF 121 DEGREES - 00 MINUTES - 00 SECONDS AT A BEARING OF NORTH 89 DEGREES - 01 MINUTES - 22 SECONDS WEST, A DISTANCE OF 1058.43 FEET TO A GRANITE BOUND FOUND AT A CORNER IN COMMON WITH LOT 14, BLOCK 1, MAP 37 (N/F LANDS OF NICOLA RAINONE, JR. & KATHLEEN S. RAINONE), RUNNING THENCE;
14. ALONG THE DIVIDING LINE BETWEEN SAID LOT 14 AND LOT 5 AT AN INTERIOR ANGLE OF 128 DEGREES - 37 MINUTES - 20 SECONDS AT A BEARING OF NORTH 37 DEGREES - 38 MINUTES - 42 SECONDS WEST, A DISTANCE OF 78.96 FEET TO A POINT AT A CORNER IN COMMON WITH LOT 9, BLOCK 1, MAP 37 (N/F LANDS OF STEPHEN P. MATTSCHECK), THENCE THE FOLLOWING THREE COURSES ALONG THE DIVIDING LINE BETWEEN LOT 9 AND LOT 5;
15. WITH AN INTERIOR ANGLE OF 137 DEGREES - 23 MINUTES - 32 SECONDS AT A BEARING OF NORTH 04 DEGREES - 57 MINUTES - 45 SECONDS EAST, A DISTANCE OF 126.30 FEET TO A DRILL HOLE FOUND, RUNNING THENCE;
16. WITH AN INTERIOR ANGLE OF 178 DEGREES - 27 MINUTES - 40 SECONDS AT A BEARING OF NORTH 06 DEGREES - 30 MINUTES - 06 SECONDS EAST, A DISTANCE OF 112.36 FEET TO A POINT, RUNNING THENCE;
17. WITH AN INTERIOR ANGLE OF 180 DEGREES - 54 MINUTES - 50 SECONDS AT A BEARING OF NORTH 04 DEGREES - 24 MINUTES - 44 SECONDS WEST, A DISTANCE OF 89.51 FEET TO A POINT AT A CORNER IN COMMON WITH LOT 9, BLOCK 1, MAP 37 (N/F LANDS OF STEPHEN R. MATTSCHECK), RUNNING THENCE ALONG THE DIVIDING LINE BETWEEN SAID LOT 8 AND LOT 5 THE FOLLOWING 12 COURSES;
18. WITH AN INTERIOR ANGLE OF 179 DEGREES - 57 MINUTES - 47 SECONDS AT A BEARING OF NORTH 04 DEGREES - 28 MINUTES - 57 SECONDS WEST, A DISTANCE OF 128.56 FEET TO A POINT, RUNNING THENCE;
19. WITH AN INTERIOR ANGLE OF 177 DEGREES - 48 MINUTES - 40 SECONDS AT A BEARING OF NORTH 02 DEGREES - 15 MINUTES - 37 SECONDS WEST, A DISTANCE OF 182.36 FEET TO A DRILL HOLE FOUND, RUNNING THENCE;
20. WITH AN INTERIOR ANGLE OF 175 DEGREES - 51 MINUTES - 40 SECONDS AT A BEARING OF NORTH 01 DEGREES - 52 MINUTES - 43 SECONDS EAST, A DISTANCE OF 101.11 FEET TO A POINT, RUNNING THENCE;
21. WITH AN INTERIOR ANGLE OF 179 DEGREES - 05 MINUTES - 30 SECONDS AT A BEARING OF NORTH 02 DEGREES - 47 MINUTES - 13 SECONDS EAST, A DISTANCE OF 145.39 FEET TO A POINT, RUNNING THENCE;
22. WITH AN INTERIOR ANGLE OF 181 DEGREES - 55 MINUTES - 30 SECONDS AT A BEARING OF NORTH 00 DEGREES - 51 MINUTES - 43 SECONDS EAST, A DISTANCE OF 136.35 FEET TO A POINT, RUNNING THENCE;
23. WITH AN INTERIOR ANGLE OF 184 DEGREES - 27 MINUTES - 00 SECONDS AT A BEARING OF NORTH 03 DEGREES - 35 MINUTES - 17 SECONDS WEST, A DISTANCE OF 156.58 FEET TO A POINT, RUNNING THENCE;
24. WITH AN INTERIOR ANGLE OF 179 DEGREES - 01 MINUTES - 15 SECONDS AT A BEARING OF NORTH 02 DEGREES - 36 MINUTES - 32 SECONDS WEST, A DISTANCE OF 210.25 FEET TO A POINT, RUNNING THENCE;
25. WITH AN INTERIOR ANGLE OF 99 DEGREES - 41 MINUTES - 20 SECONDS AT A BEARING OF NORTH 77 DEGREES - 42 MINUTES - 08 SECONDS EAST, A DISTANCE OF 50.10 FEET TO A POINT, RUNNING THENCE;
26. WITH AN INTERIOR ANGLE OF 258 DEGREES - 32 MINUTES - 35 SECONDS AT A BEARING OF NORTH 00 DEGREES - 50 MINUTES - 27 SECONDS WEST, A DISTANCE OF 68.10 FEET TO A POINT, RUNNING THENCE;
27. WITH AN INTERIOR ANGLE OF 154 DEGREES - 09 MINUTES - 35 SECONDS AT A BEARING OF NORTH 24 DEGREES - 59 MINUTES - 58 SECONDS WEST, A DISTANCE OF 30.67 FEET TO A POINT, RUNNING THENCE;
28. WITH AN INTERIOR ANGLE OF 243 DEGREES - 46 MINUTES - 00 SECONDS AT A BEARING OF NORTH 38 DEGREES - 46 MINUTES - 02 SECONDS WEST, A DISTANCE OF 120.20 FEET TO A POINT, RUNNING THENCE;
29. WITH AN INTERIOR ANGLE OF 145 DEGREES - 02 MINUTES - 15 SECONDS AT A BEARING OF NORTH 03 DEGREES - 48 MINUTES - 17 SECONDS WEST, A DISTANCE OF 174.50 FEET TO A POINT WITH AN INTERIOR ANGLE OF 92 DEGREES - 53 MINUTES - 50 SECONDS, WHICH IS THE POINT OF BEGINNING.

CONTAINING 2,487,222 SQUARE FEET, 57.099 ACRES

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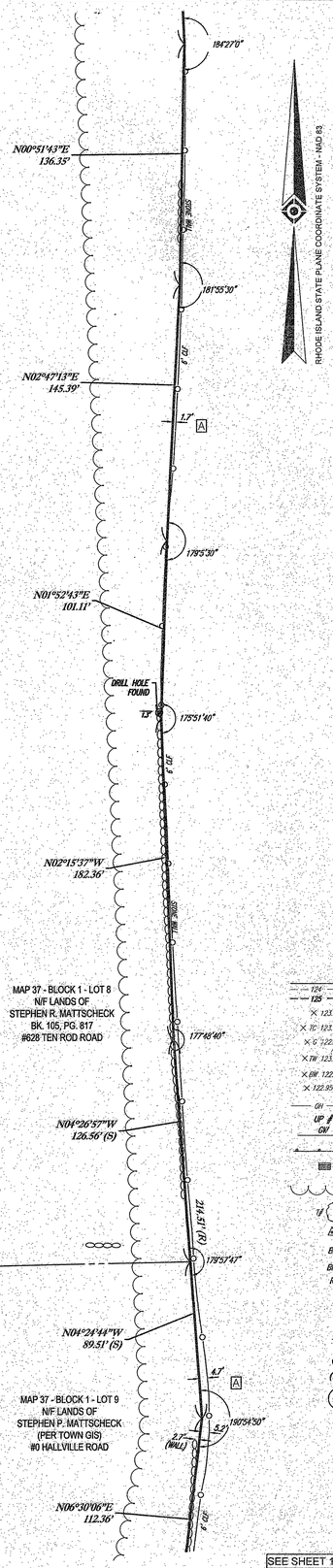

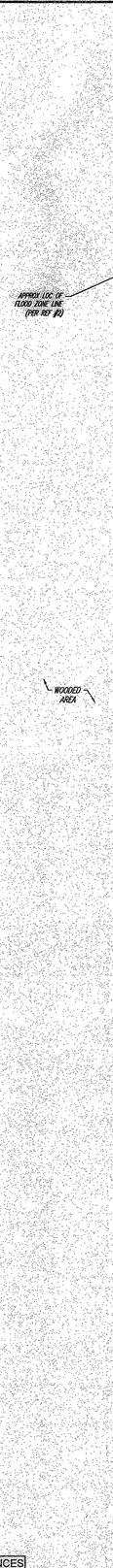

LEGEND

124	EXISTING CONTOUR
125	
123.45	EXISTING SPOT ELEVATION
IC 123.45	EXISTING TOP OF CURB ELEVATION
G 122.55	EXISTING GROUND ELEVATION
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SEE SHEET 6 OF 6 FOR NOTES
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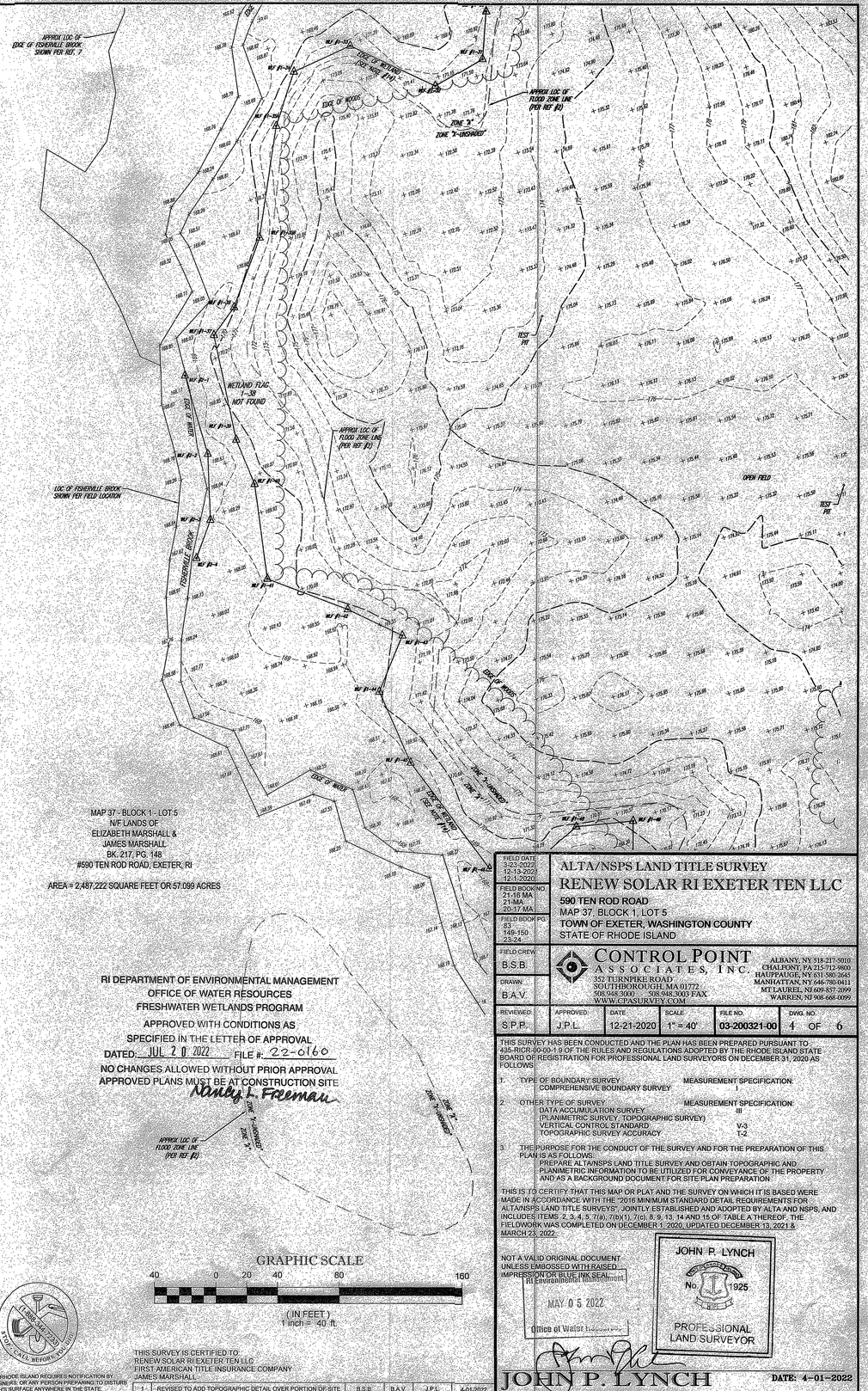

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0160
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Nancy L. Freeman

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

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No.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
-1-	REVISED TO ADD TOPOGRAPHIC DETAIL OVER PORTION OF SITE	B.S.B.	B.A.V.	J.P.L.	4-01-2022

FIELD DATE:	3-23-2022, 12-13-2021, 12-1-2020
FIELD BOOK NO.	21-16 MA, 21-MA, 20-17 MA
FIELD BOOK PG.	83, 149-150, 23-24
FIELD CREW:	B.S.B.
DRAWN:	B.A.V.

ALTA/NSPS LAND TITLE SURVEY
RENEW SOLAR RI EXETER TEN LLC
590 TEN ROD ROAD
MAP 37, BLOCK 1, LOT 5
TOWN OF EXETER, WASHINGTON COUNTY
STATE OF RHODE ISLAND

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508.948.3000 508.948.3003 FAX
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REVIEWED:	APPROVED:	DATE:	SCALE:	FILE NO.	DWG. NO.
S.P.P.	J.P.L.	12-21-2020	1" = 40'	03-200321-00	4 OF 6

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1. TYPE OF BOUNDARY SURVEY: COMPREHENSIVE BOUNDARY SURVEY — MEASUREMENT SPECIFICATION: I
2. OTHER TYPE OF SURVEY: DATA ACCUMULATION SURVEY (PLANIMETRIC SURVEY, TOPOGRAPHIC SURVEY) — MEASUREMENT SPECIFICATION: III; VERTICAL CONTROL STANDARD: V-3; TOPOGRAPHIC SURVEY ACCURACY: T-2
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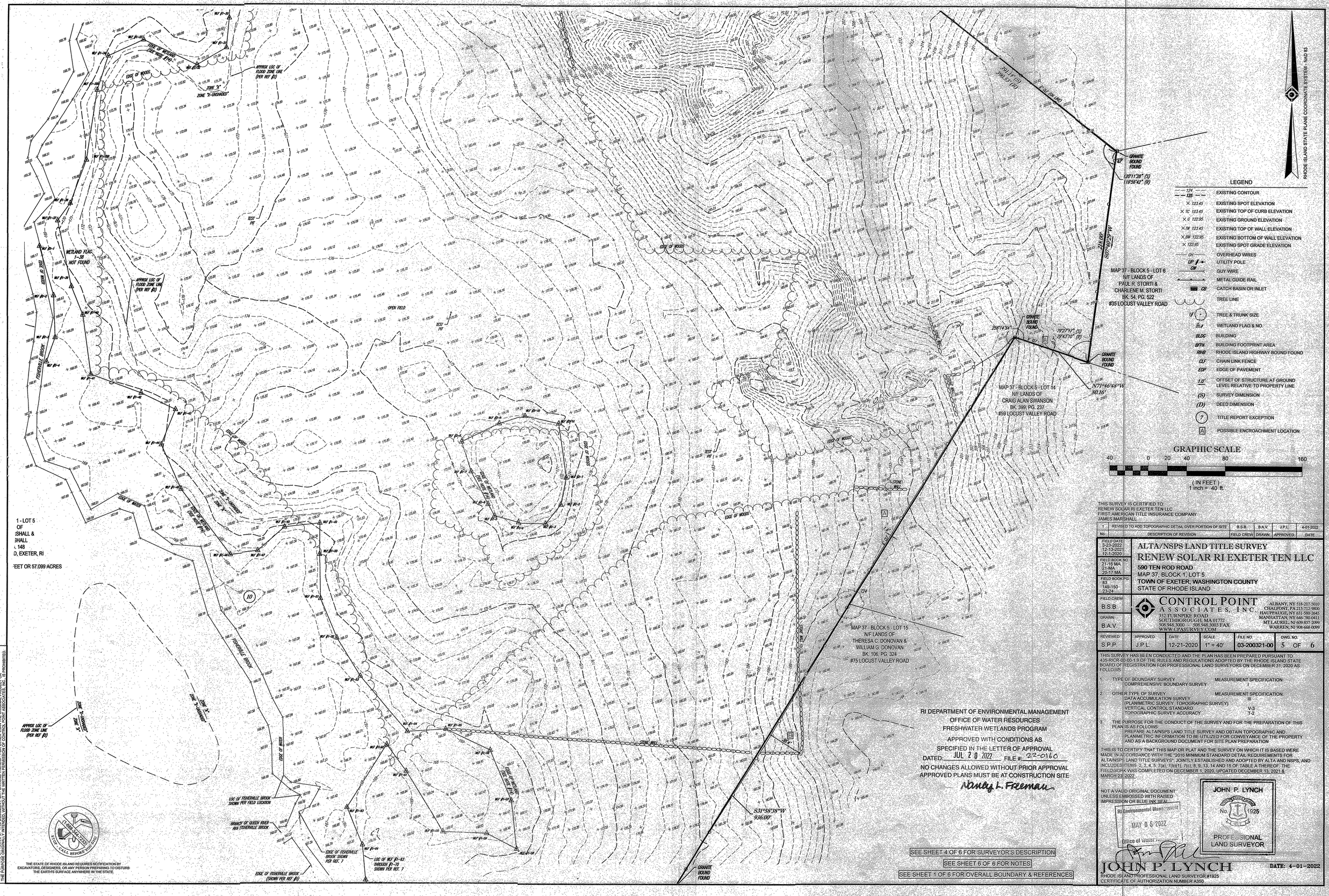
RI Environmental Management
MAY 05 2022
Office of Water Resources

JOHN P. LYNCH
No. 1925
PROFESSIONAL LAND SURVEYOR

JOHN P. LYNCH
RHODE ISLAND PROFESSIONAL LAND SURVEYOR #1925
CERTIFICATE OF AUTHORIZATION NUMBER A350

DATE: 4-01-2022



LEGEND

124	EXISTING CONTOUR
125	EXISTING CONTOUR
× 123.45	EXISTING SPOT ELEVATION
× TC 123.45	EXISTING TOP OF CURB ELEVATION
× G 122.95	EXISTING GROUND ELEVATION
× TW 123.45	EXISTING TOP OF WALL ELEVATION
× BW 122.95	EXISTING BOTTOM OF WALL ELEVATION
× 122.65	EXISTING SPOT GRADE ELEVATION
OH	OVERHEAD WIRES
UP	UTILITY POLE
GW	GUY WIRE
	METAL GUIDE RAIL
CB	CATCH BASIN OR INLET
	TREE LINE
11	TREE & TRUNK SIZE
WF #1	WETLAND FLAG & NO.
BLDG	BUILDING
BFPA	BUILDING FOOTPRINT AREA
RIHB	RHODE ISLAND HIGHWAY BOUND FOUND
CLF	CHAIN LINK FENCE
EOP	EDGE OF PAVEMENT
1.0'	OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE
(S)	SURVEY DIMENSION
(D)	DEED DIMENSION
7	TITLE REPORT EXCEPTION
A	POSSIBLE ENCROACHMENT LOCATION

RHODE ISLAND STATE PLANE COORDINATE SYSTEM - NAD 83

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

THIS SURVEY IS CERTIFIED TO
RENEW SOLAR RI EXETER TEN LLC
FIRST AMERICAN TITLE INSURANCE COMPANY
JAMES MARSHALL

No.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
1	REVISED TO ADD TOPOGRAPHIC DETAIL OVER PORTION OF SITE	B.S.B.	B.A.V.	J.P.L.	4-01-2022

FIELD DATE:
3-23-2022
12-13-2021
12-1-2020

FIELD BOOK NO:
21-16 MA
21-MA
20-17 MA

FIELD BOOK PG:
83
149-150
23-24

FIELD CREW:
B.S.B.

DRAWN:
B.A.V.

ALTA/NSPS LAND TITLE SURVEY
RENEW SOLAR RI EXETER TEN LLC
590 TEN ROD ROAD
MAP 37, BLOCK 1, LOT 5
TOWN OF EXETER, WASHINGTON COUNTY
STATE OF RHODE ISLAND

CONTROL POINT ASSOCIATES, INC.
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
508.948.3000 ~ 508.948.3003 FAX
WWW.CPSURVEY.COM

ALBANY, NY 518-217-5010
CHALFONT, PA 215-712-9800
HAUPPAUGE, NY 631-580-2645
MANHATTAN, NY 646-780-0411
MT. LAUREL, NJ 609-857-2099
WARREN, NJ 908-668-0099

REVIEWED: S.P.P.
APPROVED: J.P.L.
DATE: 12-21-2020
SCALE: 1" = 40'
FILE NO: 03-200321-00
DWG. NO: 5 OF 6

THIS SURVEY HAS BEEN CONDUCTED AND THE PLAN HAS BEEN PREPARED PURSUANT TO 435-RICR-00-00-1.9 OF THE RULES AND REGULATIONS ADOPTED BY THE RHODE ISLAND STATE BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS ON DECEMBER 31, 2020 AS FOLLOWS:

1. TYPE OF BOUNDARY SURVEY — MEASUREMENT SPECIFICATION
   COMPREHENSIVE BOUNDARY SURVEY — I
2. OTHER TYPE OF SURVEY — MEASUREMENT SPECIFICATION
   DATA ACCUMULATION SURVEY (PLANIMETRIC SURVEY, TOPOGRAPHIC SURVEY) — III
   VERTICAL CONTROL STANDARD — V-3
   TOPOGRAPHIC SURVEY ACCURACY — T-2
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THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE "2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS", JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 7(a), 7(b)(1), 7(c), 8, 9, 13, 14 AND 15 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON DECEMBER 1, 2020, UPDATED DECEMBER 13, 2021 & MARCH 23, 2022.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR BLUE INK SEAL.

RI Environmental Management
MAY 06 2022
Office of Water Resources

JOHN P. LYNCH
No. 1925
PROFESSIONAL LAND SURVEYOR

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RHODE ISLAND PROFESSIONAL LAND SURVEYOR #1925
CERTIFICATE OF AUTHORIZATION NUMBER A350

DATE: 4-01-2022

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS
SPECIFIED IN THE LETTER OF APPROVAL
DATED: JUL 20 2022 FILE #: 22-0160
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

SEE SHEET 4 OF 6 FOR SURVEYOR'S DESCRIPTION
SEE SHEET 6 OF 6 FOR NOTES
SEE SHEET 1 OF 6 FOR OVERALL BOUNDARY & REFERENCES

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THE COPYING OR REUSE OF THIS DOCUMENT OR PORTIONS THEREOF FOR ANY OTHER THAN THE ORIGINAL PROJECT OR THE PURPOSE ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF CONTROL POINT ASSOCIATES, INC. IS PROHIBITED.

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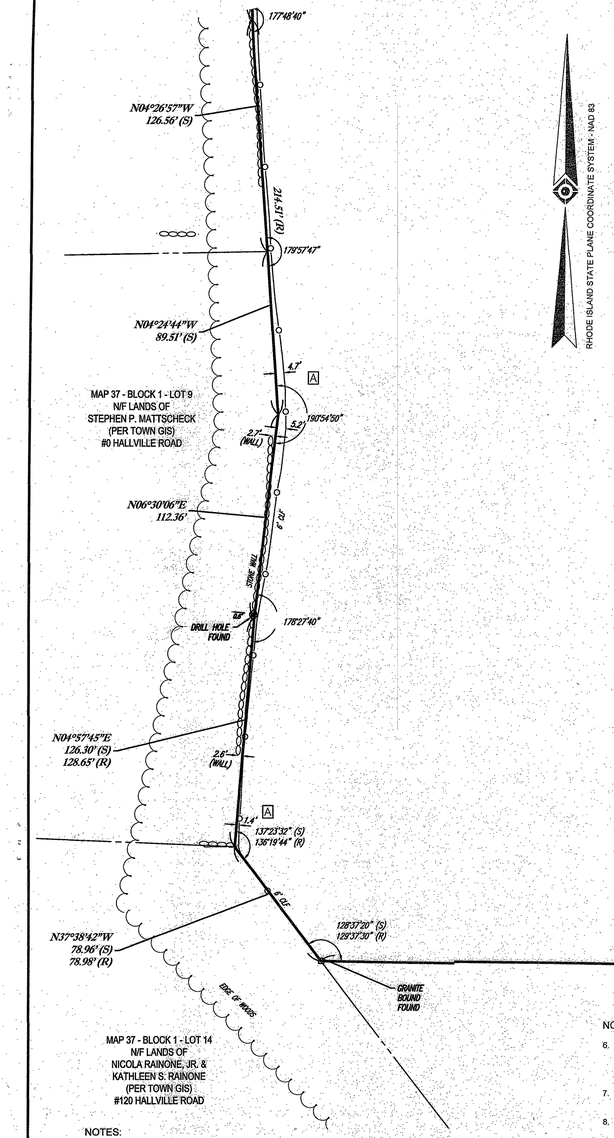
1-800-DIG-RITE (1-800-344-7483)
STOP. CALL BEFORE YOU DIG!



RHODE ISLAND STATE PLANE COORDINATE SYSTEM - NAD 83

LEGEND

124 / 125	EXISTING CONTOUR
X 123.45	EXISTING SPOT ELEVATION
X TC 123.45	EXISTING TOP OF CURB ELEVATION
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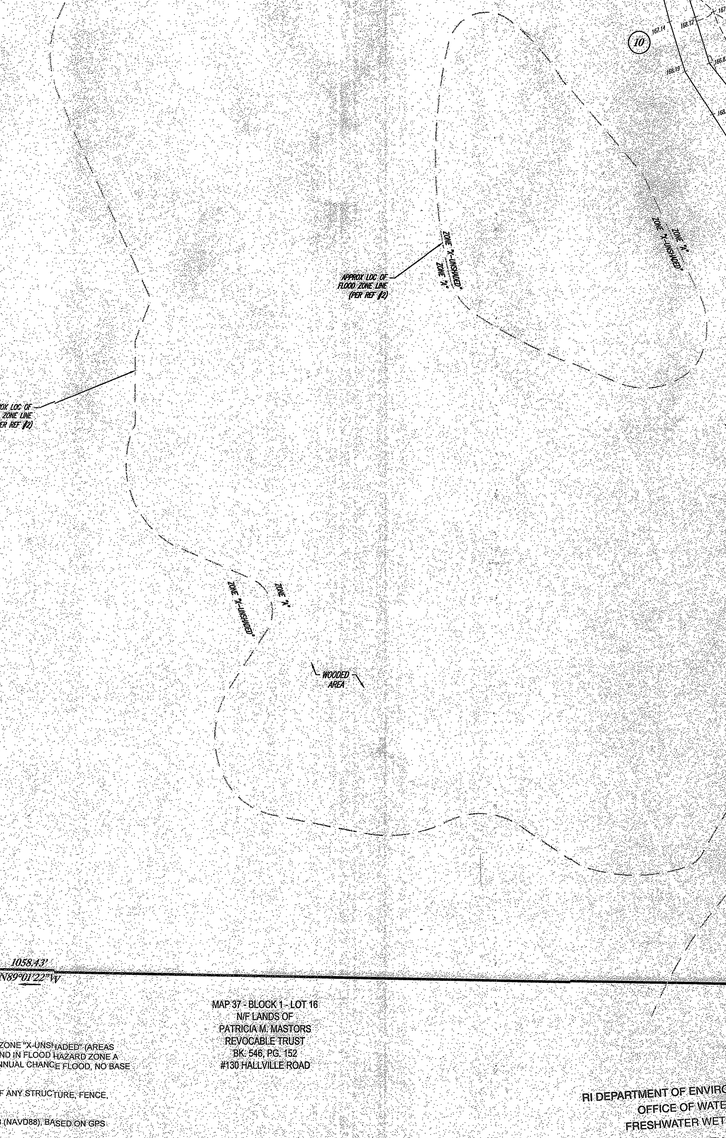

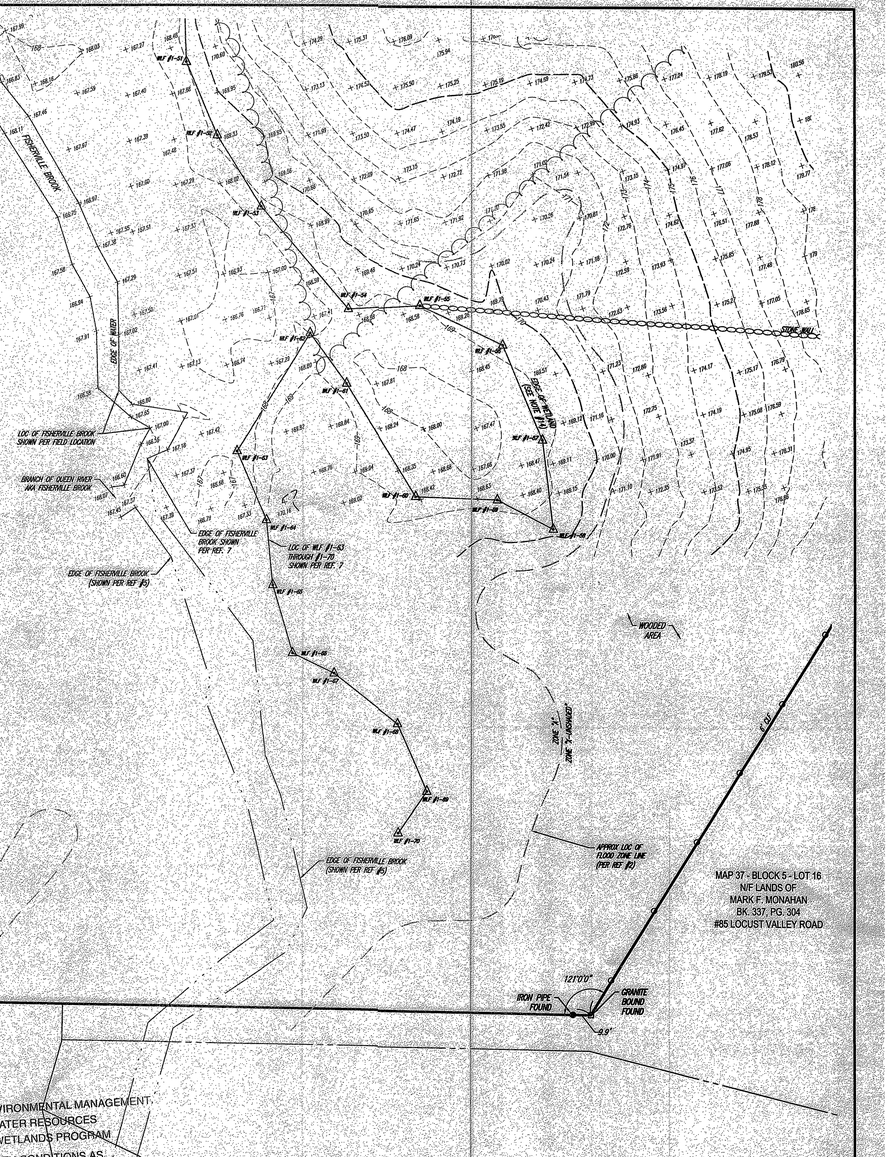

NOTES:

1. PROPERTY KNOWN AS LOT 5 AS SHOWN ON THE TOWN OF EXETER, WASHINGTON COUNTY, STATE OF RHODE ISLAND MAP NO. 37.
2. AREA = 2,487,222 SQUARE FEET OR 57.099 ACRES (7)
3. THE LOCATION OF UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN. UTILITY INFORMATION SHOWN IS LIMITED TO VISIBLE UTILITY HARDWARE AND UTILITY MARKOUTS AT THE SURFACE AND DOES NOT INCLUDE SUCH ITEMS AS SUBSURFACE PIPING, UTILITY LINES, ETC. BEFORE ANY EXCAVATION IS TO BEGIN, UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.
4. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
5. THIS SURVEY WAS PREPARED WITH REFERENCE TO A COMMITMENT FOR TITLE INSURANCE PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, HAVING A COMMITMENT NO. 3020-892722RIZ, WITH AN EFFECTIVE DATE OF JULY 2, 2020, WHERE THE FOLLOWING SURVEY RELATED EXCEPTIONS APPEAR IN SCHEDULE B - PART II:

   GENERAL EXCEPTIONS 1 THRU 6 ARE NOT SURVEY RELATED AND HAVE NOT BEEN COMMENTED ON AS A PART OF THIS SURVEY.

   (7) THE EXACT ACREAGE OR SQUARE FOOTAGE BEING OTHER THAN AS STATED SCHEDULE A OR THE PLAN(S) THEREIN REFERRED TO - **SEE NOTE #2**

   (8) WATER RIGHTS RESERVED IN DEED RECORDED IN BOOK 15 AT PAGE 263. - **SPECIFIC LOCATION OF DITCH AND MEADOW IS UNKNOWN. DESCRIPTION OF STREAM IN DEED IS VAGUE. THE LOCATION CANNOT BE DETERMINED FROM THE RECORD DOCUMENT.**

   (9) RESTRICTIONS AS SET FORTH IN DEED RECORDED IN BOOK 30 AT PAGE 157. - **EASEMENT IS BLANKET IN NATURE.**

   (10) RIPARIAN RIGHTS OF OTHERS IN AND TO ANY BROOKS OR STREAMS CROSSING LOCUS. - **FISHERVILLE BROOK AND UNNAMED STREAM SHOWN**

   (11) FARM, FOREST AND OPEN SPACE TAXATION LIST RECORDED IN BOOK 83 AT PAGE 683. - **LOT 5 INCLUDED ON LIST.**

   (13) MEMORANDUM OF SOLAR SITE LEASE AGREEMENT BY AND BETWEEN JAMES MARSHALL AND RENEW SOLAR RI EXETER TEN, LLC DATED JULY 18, 2018 AND RECORDED ON OCTOBER 3, 2018 IN BOOK 524, PAGE 280. - **BLANKET IN NATURE.**

   (14) TOWN OF EXETER RECORD OF DEXISION - CONDITIONAL MASTER PLAN APPROVAL DATED JANUARY 22, 2019 AND RECORDED IN BOOK 529, PAGE 193. - **SOLAR APPLICATION BLANKET IN NATURE.**

   (15) TOWN OF EXETER, RI ZONING DECISION DATED MARCH 25, 2019 AND RECORDED ON APRIL 9, 2019 AT 2:22 P.M. IN BOOK 531, PAGE 280. - **BLANKET IN NATURE.**

NOTES (CONTINUED):

6. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE "X-UNSHADED" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AND IN FLOOD HAZARD ZONE A (SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD, NO BASE FLOOD ELEVATIONS DETERMINED) PER REF. #2.
7. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
8. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS).
   TEMPORARY BENCH MARKS SET:

   TBM-A: CONTROL POINT 2, IRON ROD WITH CAP SET AT ELEVATION= 177.16'

   TBM-B: CONTROL POINT 18, IRON ROD WITH CAP SET AT ELEVATION = 180.09'

   PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.
9. THE PROPERTY DESCRIBED IN THE TITLE COMMITMENT AS EXHIBIT "A" IS THE SAME AS SHOWN ON THE SURVEY.
10. SITE WAS OCCUPIED BY RESIDENTIAL AND OTHER OUT BUILDINGS AT THE TIME OF THE SURVEY. ALSO, OPEN FIELDS, AND MIXED WOODS.
11. AT TIME OF SURVEY THERE ARE NO KNOWN RECENTLY COMPLETED OR KNOWN PROPOSED CHANGES TO THE STREET RIGHT-OF-WAYS SHOWN ON THIS SURVEY.
12. AT TIME OF SURVEY THERE WERE NO CEMETERIES, GRAVESITES, AND/OR BURIAL GROUNDS OBSERVED OR NOTED IN RECORD DOCUMENTS OBTAINED OR PROVIDED.
13. AT TIME OF SURVEY THERE IS NO OBSERVED EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS.
14. WETLANDS WERE DELINEATED BY OTHERS AND FIELD LOCATED BY CONTROL POINT ON DECEMBER 13, 2021.
15. THE PROPERTY HAS DIRECT ACCESS TO TEN ROD ROAD AT TWO POINTS, A DIRT/GRAVEL DRIVEWAY THROUGH A WOOD GATE NEAR THE NORTHWESTERLY PROPERTY CORNER AND A DIRT/GRAVEL PATH NEAR THE NORTHEASTERLY PROPERTY CORNER. BOTH POINTS OF ACCESS ARE SHOWN.
16. HALLVILLE ROAD IS 960± FEET WESTERLY OF THE NORTHWESTLY PROPERTY CORNER (PER GOOGLE EARTH) AND IS THE NEAREST INTERSECTING PUBLIC STREET TO THE SURVEYED PROPERTY.
17. AT TIME OF SURVEY NO PARKING SPACES WERE OBSERVED.
18. PLANIMETRIC AND TOPOGRAPHIC FEATURES COMPILED BY CONTROL POINT ASSOCIATES, INC., UTILIZING PHOTOGRAMMETRIC METHODS FROM UAV PHOTOGRAPHY. UAV PHOTOGRAPHY PERFORMED BY CONTROL POINT ASSOCIATES, INC., ON MAY 19, 2021 AND DECEMBER 7, 2021, WITH A PHOTO SCALE OF 0.75 CM GSD.
19. PHOTOGRAMMETRIC MAPPING HAS BEEN COMPLIED IN ACCORDANCE WITH PROCEDURES THAT HAVE BEEN DEMONSTRATED TO COMPLY WITH THE AMERICAN SOCIETY OF PHOTOGRAMMETRY AND REMOTE SENSING (ASPRS) CLASS 1 STANDARD FOR A HORIZONTAL MAPPING SCALE OF 1" = 40' AND A CONTOUR INTERVAL OF 1'.
20. AERIAL CONTROL PROVIDED BY CONTROL POINT ASSOCIATES, INC., UTILIZING PROPELLER AEROPOINTS ON MAY 19, 2021 AND DECEMBER 7, 2021.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

SEE SHEET 1 OF 6 FOR OVERALL BOUNDARY & REFERENCES
SEE SHEET 4 OF 6 FOR SURVEYOR'S DESCRIPTION

THIS SURVEY IS CERTIFIED TO:
RENEW SOLAR RI EXETER TEN LLC
FIRST AMERICAN TITLE INSURANCE COMPANY
JAMES MARSHALL

No.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
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FIELD DATE:
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21 MA
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93
149-150
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REVIEWED:
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ALTA/NSPS LAND TITLE SURVEY
RENEW SOLAR RI EXETER TEN LLC
590 TEN ROD ROAD
MAP 37, BLOCK 1, LOT 5
TOWN OF EXETER, WASHINGTON COUNTY
STATE OF RHODE ISLAND

CONTROL POINT ASSOCIATES, INC.
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HAUPPAUGE, NY 631-360-2645
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APPROVED: J.P.L. | DATE: 12-21-2020 | SCALE: 1" = 40' | FILE NO: 03-200321-00 | DWG NO: 6 OF 6

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