

EXETER MAIL SOLAR PERMITTING PLANS

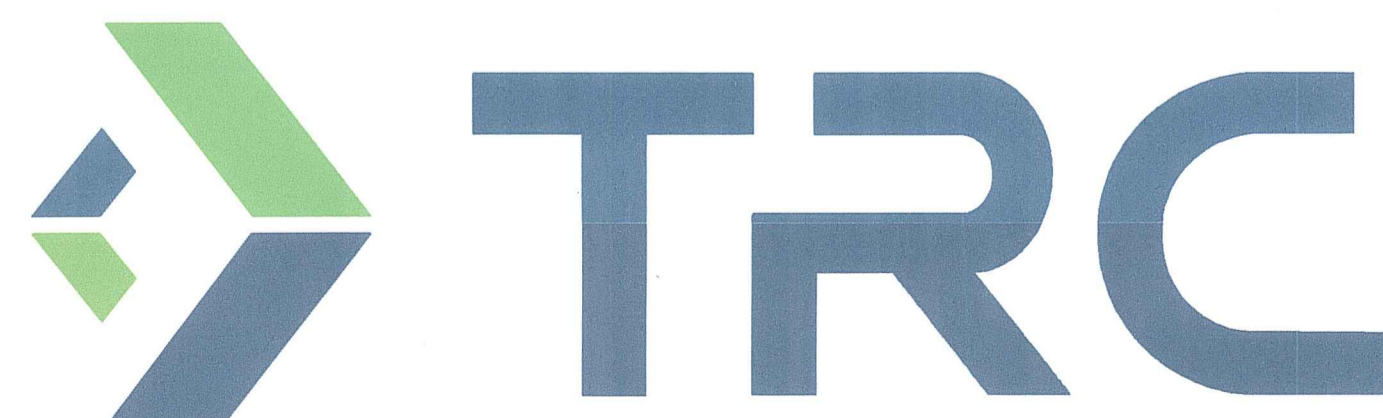
PROPERTY:
 148 MAIL ROAD
 EXETER, RI 02822
 AP 71 BLOCK 4 LOT 14

PROPERTY OWNER:
 RINA STAMAS
 148 MAIL ROAD
 PO BOX 684
 EXETER, RI 02822

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

FEBRUARY 15, 2023
 REVISED: JULY 13, 2023

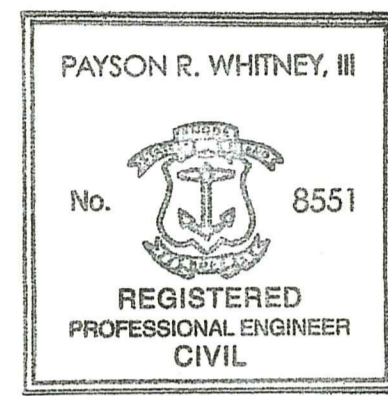
PREPARED BY:



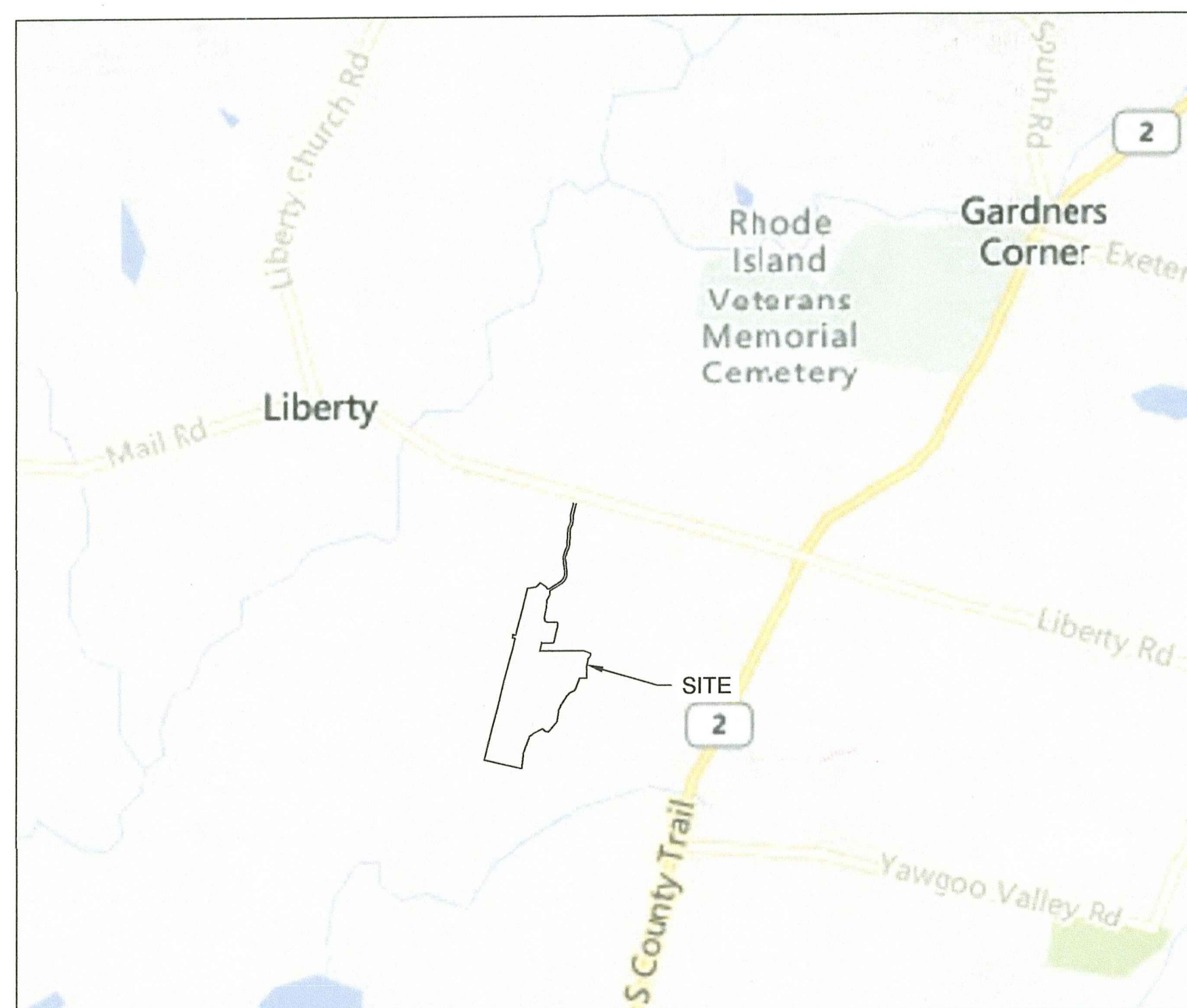
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RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 21 2023 FILE #: 22-0425
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 NOTE PER DEM:
 Kindly be advised that this Permit
 is not equivalent to a
 verification of the type or extent
 of freshwater wetlands on site



Payson R. Whitney, III
 2023-07-14
 12:18-04:00



LOCATION MAP
 SCALE 1"=2000'



DRAWING INDEX

Sheet Number	Sheet Title
1	COVER
2	NOTES
3	NOTES
4	SITE OVERVIEW PLAN
5	SHEET INDEX
6	LAYOUT AND MATERIALS PLAN
7	LAYOUT AND MATERIALS PLAN
8	LAYOUT AND MATERIALS PLAN
9	LAYOUT AND MATERIALS PLAN
10	GRADING AND DRAINAGE PLAN
11	GRADING AND DRAINAGE PLAN
12	GRADING AND DRAINAGE PLAN
13	GRADING AND DRAINAGE PLAN
14	EROSION AND SEDIMENT CONTROL
15	EROSION AND SEDIMENT CONTROL
16	EROSION AND SEDIMENT CONTROL
17	EROSION AND SEDIMENT CONTROL
18	DETAILS
19	DETAILS
20	DETAILS
21	DETAILS
22	DETAILS
23	DETAILS
24	BASIN SECTIONS
25	BASIN SECTIONS
26	BASIN SECTIONS
27	LANDSCAPE PLAN
28	LANDSCAPE PLAN
29	LANDSCAPE PLAN
30	LANDSCAPE PLAN
31	LANDSCAPE NOTES AND DETAILS
32	LANDSCAPE NOTES AND DETAILS
33-45	PROPOSED SOLAR INTERCONNECTION PROJECT PLANS, PREPARED BY VHB, DATED 6/29/2023 (11X17, BOUND SEPERATELY)

ATTACHMENTS

BASE PLAN: "TOPOGRAPHIC SURVEY & PERIMETER SURVEY PLAN",
 DATED MAY 24, 2022, BY FOSTER SURVEY COMPANY.

"ONE LINE", DATED JULY, 2022, REVISED JULY 19, 2022
 BY INDUSTRIA ENGINEERING.

FOR PERMITTING ONLY

RI Environmental Management
 JUL 18 2023
 Office of Water Resources

GENERAL NOTES:

1. BASE PLAN: "TOPOGRAPHIC SURVEY & PERIMETER SURVEY PLAN", DATED MAY 24, 2022, FOSTER SURVEY COMPANY. TOPOGRAPHIC SURVEY INFORMATION HAS BEEN SUPPLEMENTED WITH RHODE ISLAND GIS 2011 LIDAR TOPOGRAPHIC DATA OUTSIDE OF SURVEY AREAS.
2. THE VERTICAL DATUM SHOWN HEREON REFERENCES NAVD83, 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. ENGINEER'S ENDORSEMENT IS LIMITED TO PLANS PREPARED BY TRC AND DOES NOT EXTEND TO INTERCONNECTION PLANS PREPARED BY VHB. PLANS NOT INTENDED FOR CONSTRUCTION.
4. WETLANDS WERE DELINEATED BY TRC COMPANIES IN SEPTEMBER 2021.
5. A PORTION OF THE PROPERTY IS LOCATED WITHIN A RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT NATURAL HERITAGE AREA. NATURAL HERITAGE AREA BOUNDARY OBTAINED FROM RHODEMAP. RIGS AND RIDEM IN APRIL 2022. NATURAL HERITAGE AREA BOUNDARY LOCATIONS ARE APPROXIMATE. THE LIMITS OF DISTURBANCE ASSOCIATED WITH THE PROPOSED PROJECT ARE NOT WITHIN A NATURAL HERITAGE AREA.
6. THE SITE IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA ACCORDING TO FEMA FIRM PANELS 44009C0091J, 44009C0093J, AND 44009C0090J DATED APRIL 3, 2022.
7. A PORTION OF THE SITE IS LOCATED WITHIN A GROUNDWATER PROTECTION OVERLAY, RECHARGE AREA AND A NON-COMMUNITY WELLHEAD PROTECTION AREA. THE SITE IS NOT LOCATED WITHIN A GROUNDWATER PROTECTION OVERLAY, AQUIFER AREA OR A COMMUNITY WELLHEAD PROTECTION AREA ACCORDING TO THE TOWN OF EXETER, RHODE ISLAND ONLINE GIS MAP.

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.
15. NOTIFY ENGINEER IF LEDGE IS ENCOUNTERED WITHIN 2-FEET OF FINAL GRADE.

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, LAYDOWN AREA AND ROAD.
 - 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 STORMWATER BASINS. SPECIAL CARE SHALL BE TAKEN TO PREVENT SEDIMENT-LADEN RUNOFF FROM ENTERING THE BASINS.

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 SWALES, BASINS, OUTLET STRUCTURES, DRAINAGE PIPES AND LEVEL SPREADERS.
- 2.4.3. REMOVE RIDEM PERMIT SIGN, LOG 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 RIDES 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 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 PRACTICAL, 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 RAINDROF SPLASH. SPREAD WOOD CHIP MULCH UNIFORMLY RESULTING IN 100% COVERAGE OF DISTURBED SOIL TO BE STABILIZED. SUGGESTED APPLICATION RATE IS 6 CVI, 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 (HYDROSEED). 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-5. 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 HYDRO-MULCH AND EROSION CONTROL BLANKET/TURF REINFORCEMENT MATS.
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 SEED MIX TABLES ON DRAWING L-5 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 HYDROSEEDING NOTES ON DRAWING L-5 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 SEEDING 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 CLEANUP. 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 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 NO 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. ALL SEDIMENT SHALL BE REMOVED PRIOR TO FINAL SITE STABILIZATION. SAND AND STONE SHALL BE REPLACED TO RE-ESTABLISH THE FILTRATION CAPACITY OF THE BASINS AND STONE BERMS AS NECESSARY.
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.

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.

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 8-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 TRAPS SHALL BE REMOVED AND RESTORED AFTER THE CONTRIBUTING DRAINAGE AREA IS STABILIZED.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: SEP 21 2023 FILE # 22-0425
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
NOTE PER DEM:
Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site

DATE: Jul 13, 2023 - 2:01 PM
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396 SPRINGFIELD AVENUE, 2ND FLOOR
SUMMIT, NJ 07901

EXETER MAIL SOLAR
AP 71 BLOCK 4 LOT 14
148 MAIL ROAD
EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER CIVIL
Not Valid Without Signature

2023-07-14		12:18:04:0		0	
1	RESPONSE TO TECHNICAL COMMENTS	7/13/2023	GJR	PRW	PRW
No.	REVISION	DATE	DRAWN	DESIGN	CHK
DRAWN BY: GJR		DESIGNED BY: JMG		CHECKED BY: JMG	

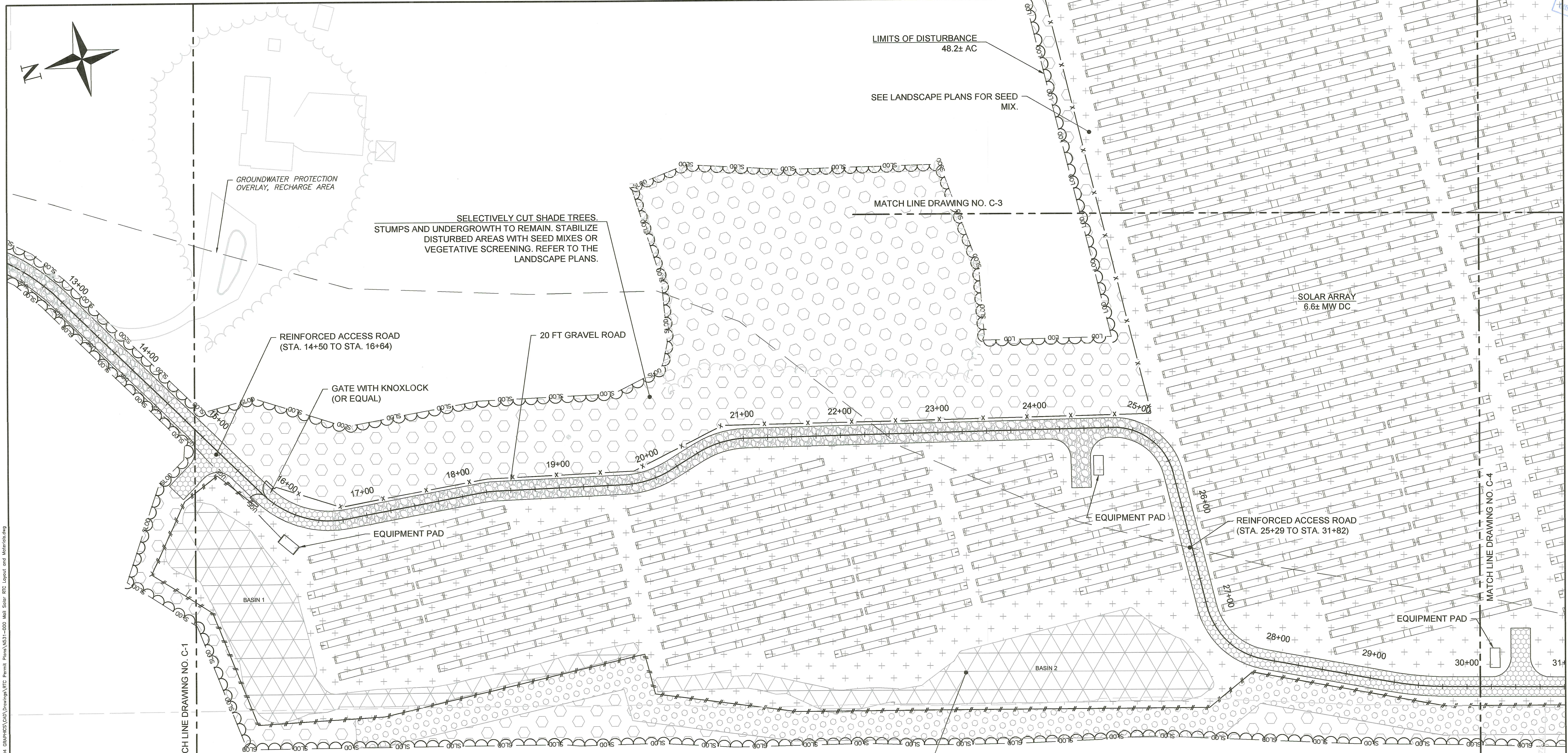
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PERMITTING PLANS NOTES

FOR PERMITTING ONLY

PROJECT NO: NS31-000
DATE OF ISSUE: 2/15/2023
SHEET NO.: 2 OF 45

RI Environmental Management
 JUL 18 2023
 Office of Water Resources



DATE: Jul 13, 2023 7:28PM
 DRAWN BY: P. Whitney
 PROJECT: RI DEPT. OF ENVIRONMENTAL MANAGEMENT, OFFICE OF WATER RESOURCES, FRESHWATER WETLANDS PROGRAM, PERMITTING PLANS, LAYOUT AND MATERIALS PLAN
 SHEET: 1 OF 2

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS
 SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 21 2023 FILE #: 22-0425
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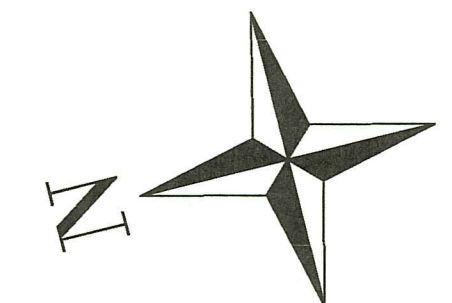
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**PERMITTING PLANS
 LAYOUT AND MATERIALS PLAN**
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DRAWING NO:
C-2
 PROJECT NO: NS1-000
 DATE OF ISSUE: 07/14/2023
 SHEETS: 2 OF 2
 RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM

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RI Department of Environmental Management
 JUL 18 2023
 Division of Water Resources



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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 DATED: SEP 21 2023 FILE #: 22-0425
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Nancy L. Freeman

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 NOTE PER DEM:
 Kindly be advised that this drawing is not a **NON-POINT SOURCE** COMMUNITY WELLHEAD PROTECTION AREA verification of the extent of freshwater wetlands on site

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.

50 FT WETLAND SETBACK

100 FT SOIL DISTURBANCE SETBACK

7-FT CHAIN LINK FENCE
 35.7± AC

SOLAR ARRAY
 6.6± MW DC

BASIN 5

BASIN 4

MATCH LINE DRAWING NO. C-2

MATCH LINE DRAWING NO. C-4

LIMITS OF DISTURBANCE
 48.2± AC

SEE LANDSCAPE PLANS FOR SEED
 MIX.

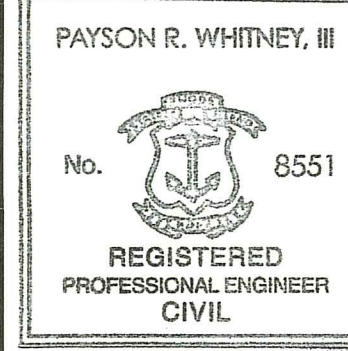
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 148 MAIL ROAD
 EXETER, RI 02822



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

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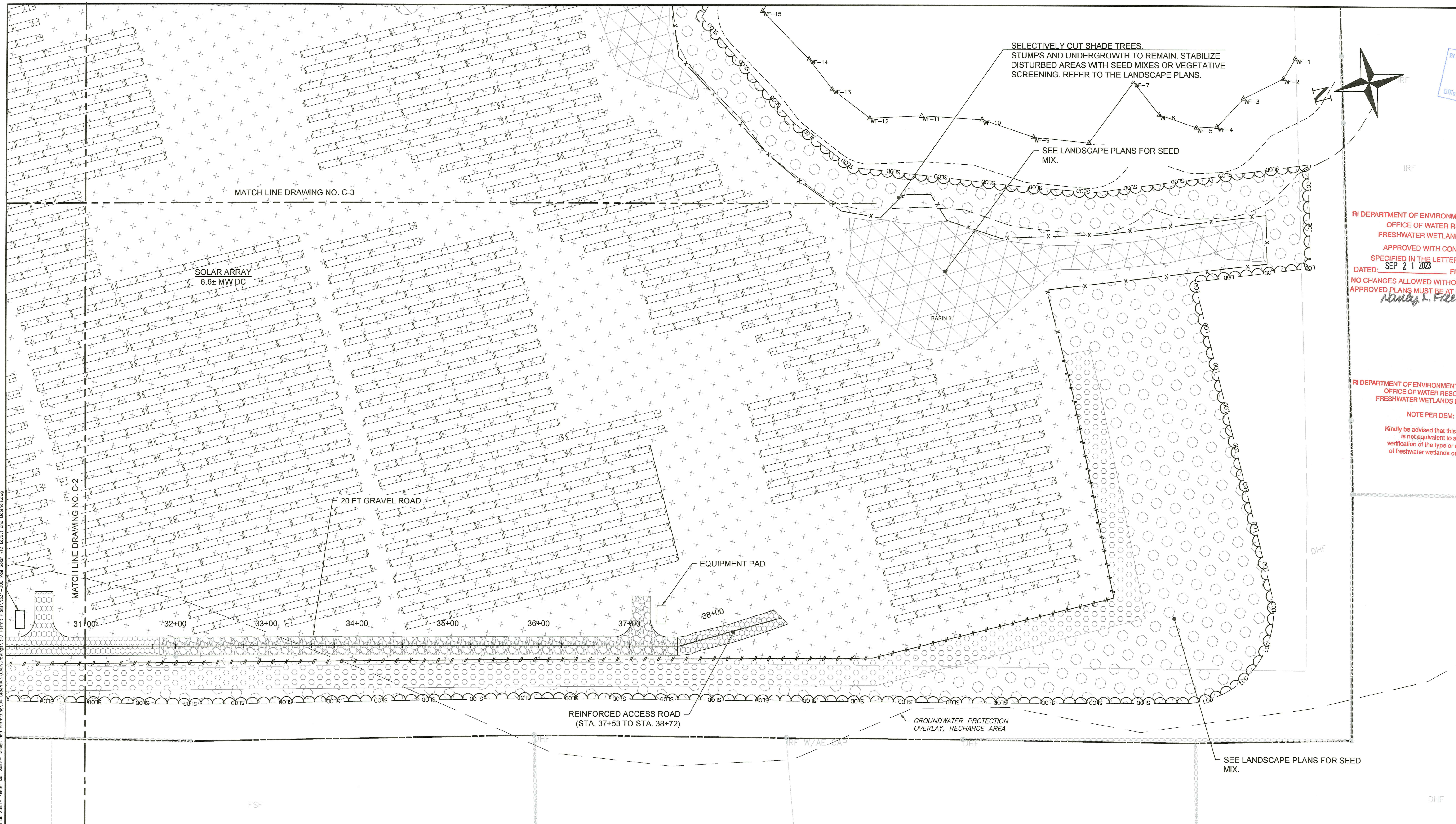
No.	REVISION	DATE	DRAWN	DESIGN	CHK

**PERMITTING PLANS
 LAYOUT AND MATERIALS PLAN**

FOR PERMITTING ONLY

DRAWING NO:
C-3

PROJECT NO: MS31-000
 DATE OF ISSUE: 2/15/2023
 SHEET NO: 6 OF 45



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.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED: SEP 21 2023 FILE #: 22-0425
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 NOTE PER DEM:
 Kindly be advised that this permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DATE: Jul 13, 2023 - 2:07PM FILENAME: C:\Work\N31-000\N31-000\N31-000_Mat_Solar_RTC_Layout_and_Materials.dwg

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EXETER MAIL SOLAR
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 148 MAIL ROAD
 EXETER, RI 02822

PAYSON R. WHITNEY, III
 No. 8551
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 Not Valid Without Signature

0 50' 100'
 SCALE: 1" = 50'
 2023-07-14
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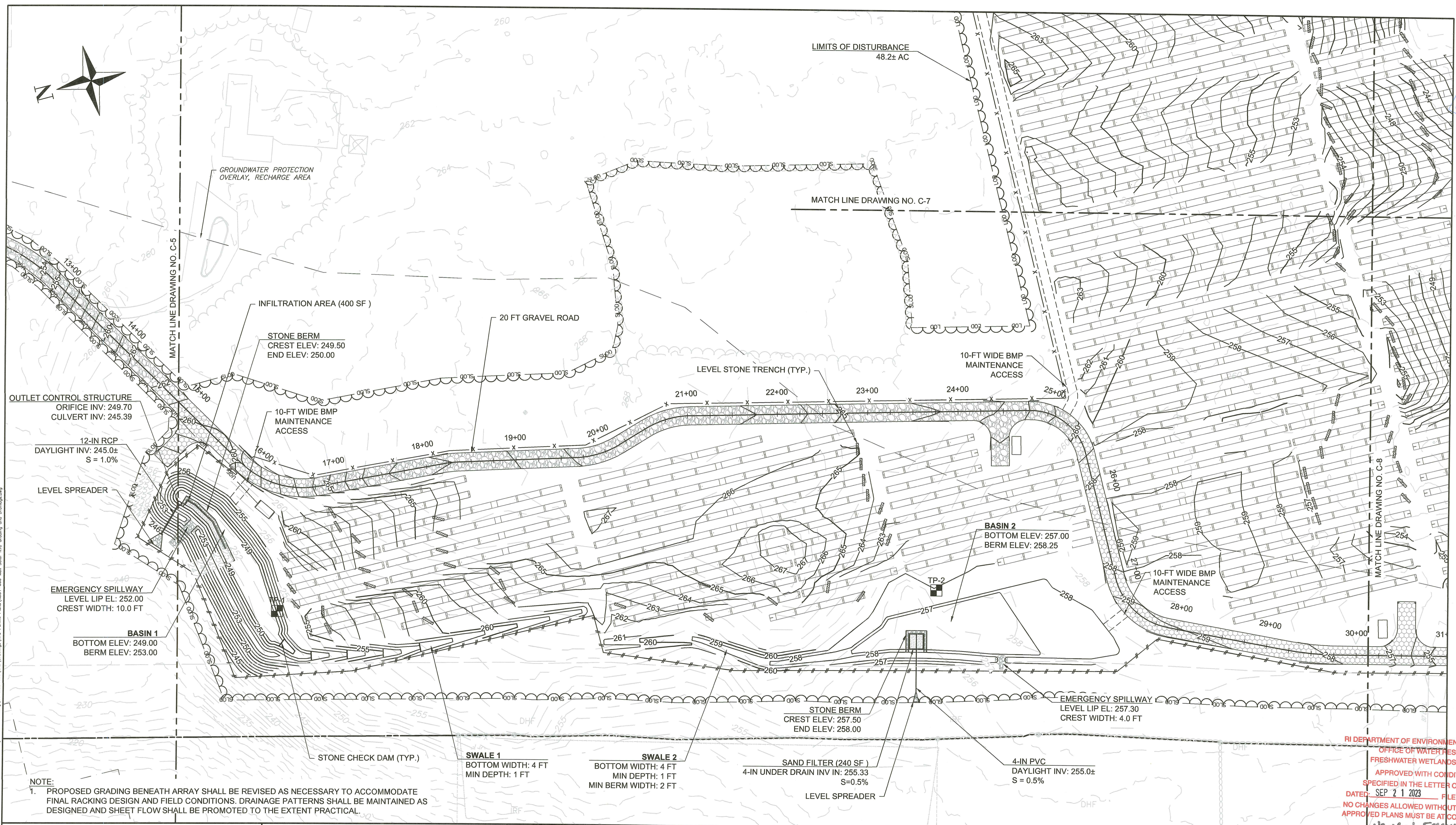
No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: AHB DESIGNED BY: JMG CHECKED BY: JMG

PERMITTING PLANS
LAYOUT AND MATERIALS PLAN
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DRAWING NO:
C-4
 PROJECT NO: N631-000
 DATE OF ISSUE: 2/15/2023
 SHEET NO: 9 OF 45

RI Department of Environmental Management
 JUL 18 2023
 Office of Water Resources



NOTE:
 1. PROPOSED GRADING BENEATH ARRAY SHALL BE REVISED AS NECESSARY TO ACCOMMODATE FINAL RACKING DESIGN AND FIELD CONDITIONS. DRAINAGE PATTERNS SHALL BE MAINTAINED AS DESIGNED AND SHEET FLOW SHALL BE PROMOTED TO THE EXTENT PRACTICAL.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
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 DATED: SEP 21 2023 FILE #: 22-0425
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 CIVIL
 Not Valid Without Signature

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No.	REVISION	DATE	DATE	CHK
1	RESPONSE TO RIDEM TECHNICAL COMMENTS	7/13/2023	J.R.	J.M.G.
			J.M.G.	J.M.G.

DRAWN BY: AHB DESIGNED BY: JMG CHECKED BY: JMG

**PERMITTING PLANS
 GRADING AND DRAINAGE PLAN**

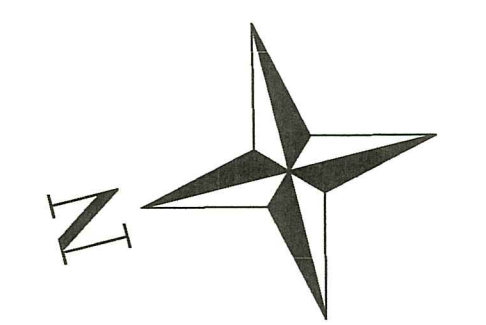
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DRAWING NO. **C-6**
 PROJECT NO: NS31-000
 DATE OF ISSUE: 2/15/2023
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 OFFICE OF WATER RESOURCES
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DATE: Jul 13, 2023 2:10PM
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01.1.8.2023
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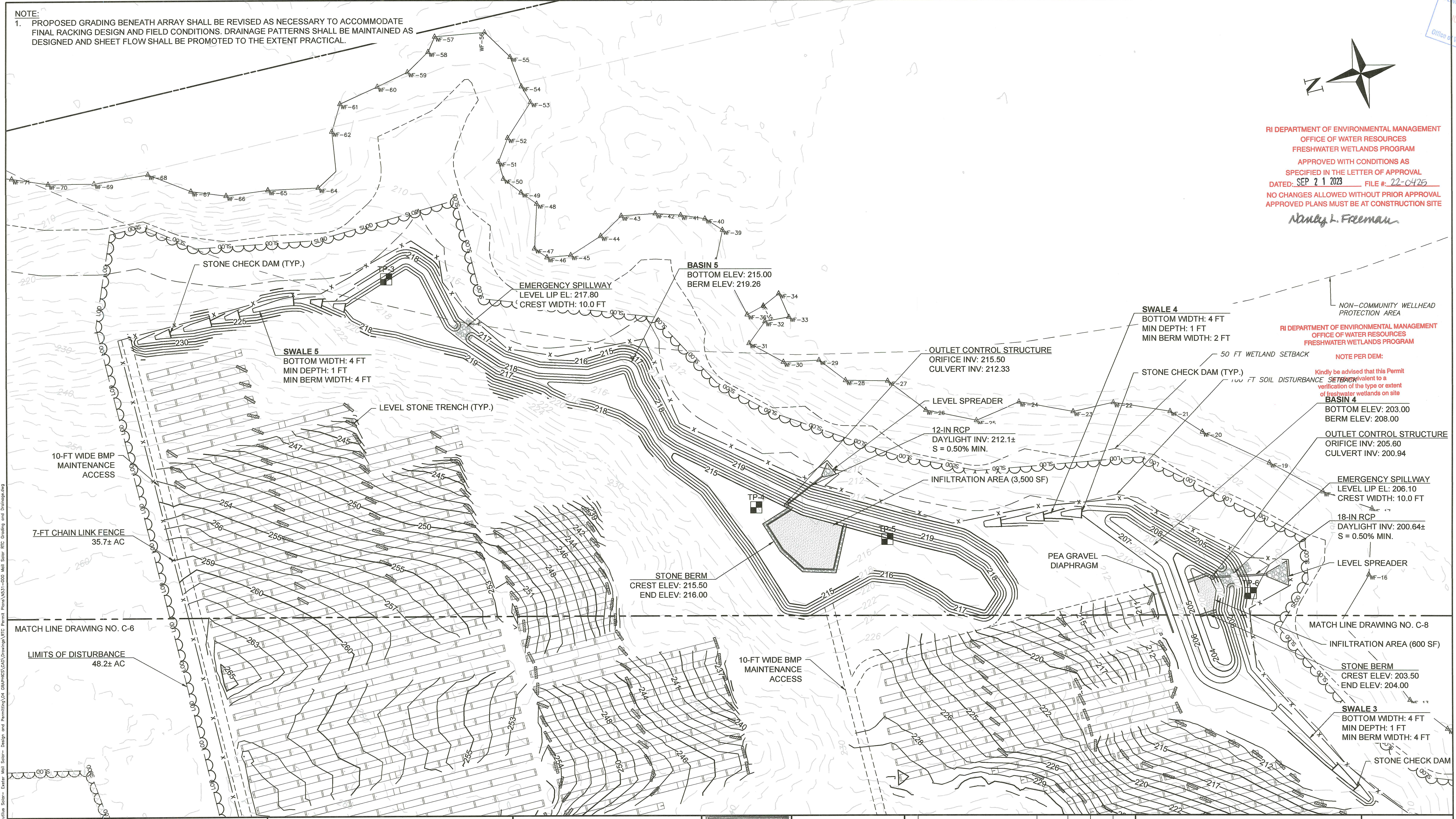
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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: SEP 21 2023 FILE #: 22-0425
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Nancy L. Freeman

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM

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148 MAIL ROAD
EXETER, RI 02822

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No. 8551
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CIVIL

0 50' 100'
SCALE: 1" = 50'
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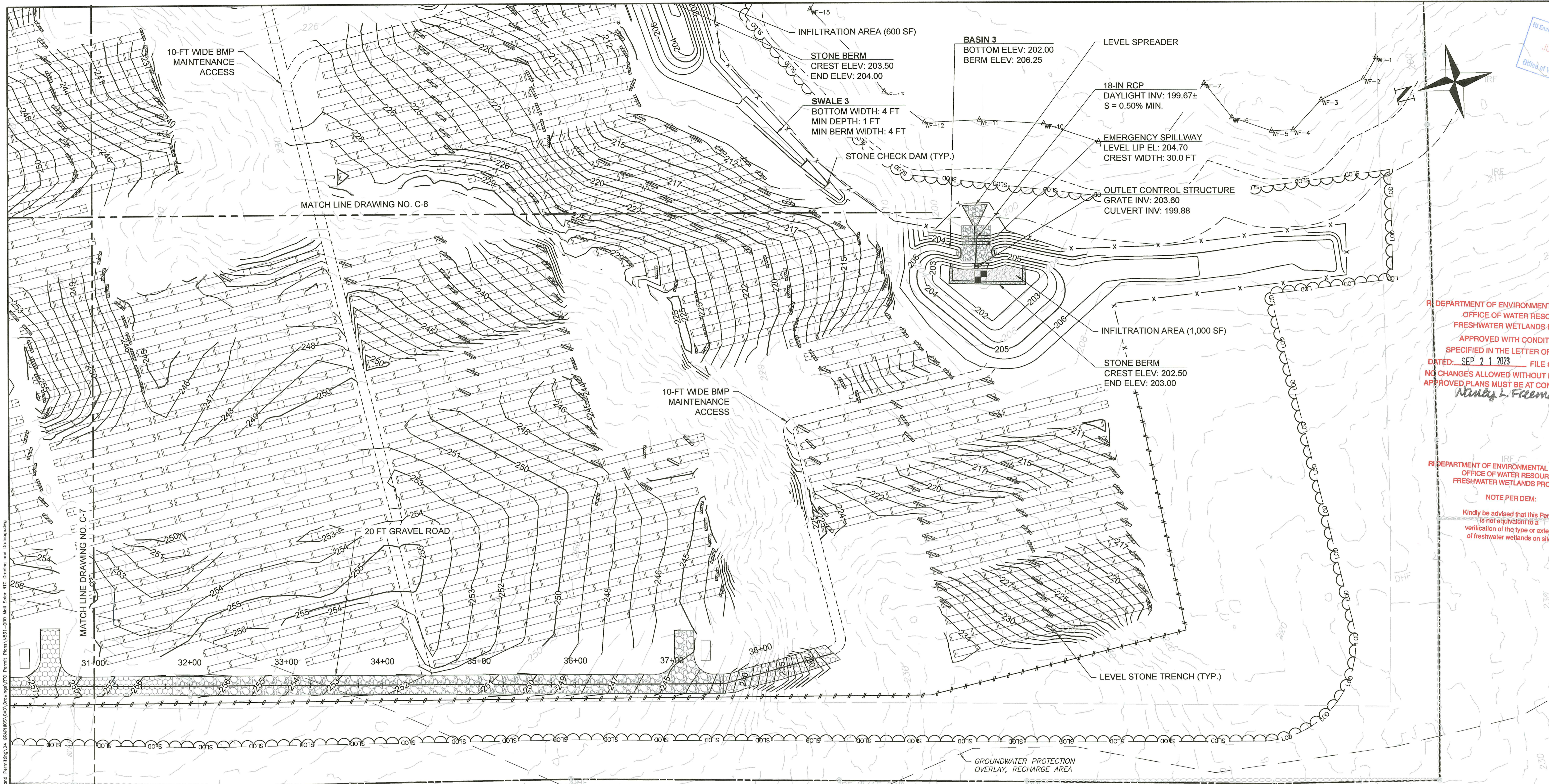
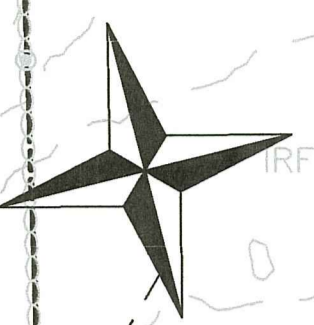
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1	RESPONSE TO RIEM TECHNICAL COMMENTS	7/13/2023	GJR	JMG	JMG

**PERMITTING PLANS
GRADING AND DRAINAGE PLAN**
FOR PERMITTING ONLY

DRAWING NO:
C-7
PROJECT NO: N531-000
DATE OF ISSUE: 2/15/2023
SHEET NO: 12 OF 45

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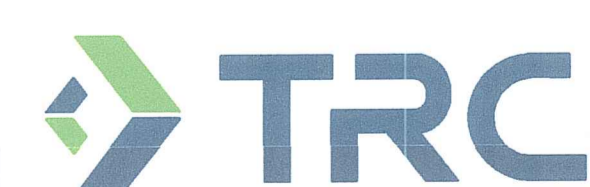

RI Environmental Management
 JUL 18 2023
 Office of Water Resources



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 DATED: SEP 21 2023 FILE # 72-0425
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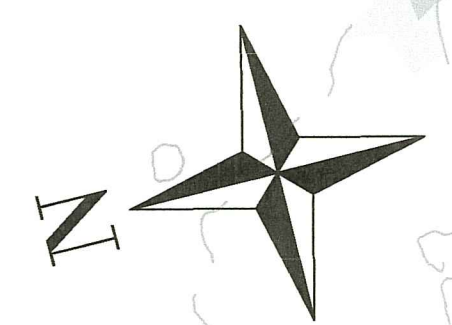
 <p>404 Wyman Street, Suite 375 Waltham, Massachusetts 02451 p 781.419.7696 www.trccompanies.com</p>	<p>RENEW SOLAR RI EXETER MAIL, LLC 396 SPRINGFIELD AVENUE, 2ND FLOOR SUMMIT, NJ 07901</p>	<p>EXETER MAIL SOLAR AP 71 BLOCK 4 LOT 14 148 MAIL ROAD EXETER, RI 02822</p>	<p>PAYSON R. WHITNEY, III No. 8551  REGISTERED PROFESSIONAL ENGINEER CIVIL Not Valid Without Signature</p>	<p>0 50' 100' SCALE: 1" = 50' 2023-07-14 12:21-04:0 0</p>	<table border="1"> <tr> <td>1</td> <td>RESPONSE TO RIDEM TECHNICAL COMMENTS</td> <td>7/13/2023</td> <td>GJR</td> <td>JMG</td> <td>JMG</td> </tr> <tr> <td>No.</td> <td>REVISION</td> <td>DATE</td> <td>DRAWN</td> <td>DESIGN</td> <td>CHK</td> </tr> </table> <p>DRAWN BY: AHB DESIGNED BY: JMG CHECKED BY: JMG</p>	1	RESPONSE TO RIDEM TECHNICAL COMMENTS	7/13/2023	GJR	JMG	JMG	No.	REVISION	DATE	DRAWN	DESIGN	CHK	<p>PERMITTING PLANS GRADING AND DRAINAGE PLAN</p> <p>FOR PERMITTING ONLY</p>	<p>DRAWING NO: C-8 PROJECT NO: N831-000 DATE OF ISSUE: 2/16/2023 SHEET NO: 13 OF 45</p>
1	RESPONSE TO RIDEM TECHNICAL COMMENTS	7/13/2023	GJR	JMG	JMG														
No.	REVISION	DATE	DRAWN	DESIGN	CHK														

FILED: Jul 13 2023 2:10PM
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RI Department of Environmental Management
Office of Water Resources
JUL 18 2023

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 0-15%
SLOPES >15%

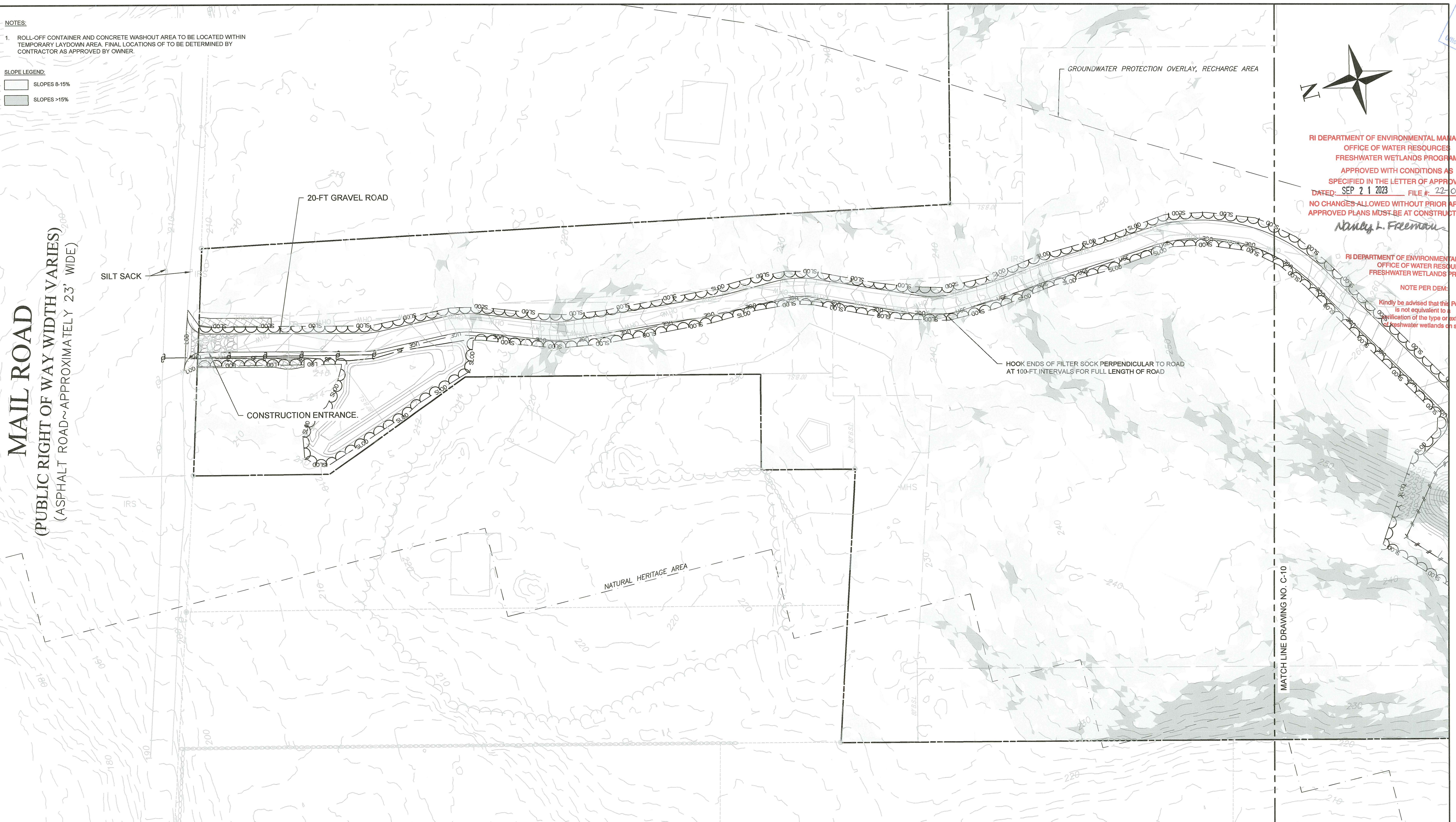


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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: SEP 21 2023 FILE #: 22-0425
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM

NOTE PER DEM:
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MAIL ROAD
(PUBLIC RIGHT OF WAY WIDTH VARIES)
(ASPHALT ROAD ~ APPROXIMATELY 23' WIDE)

SILT SACK

20-FT GRAVEL ROAD

CONSTRUCTION ENTRANCE

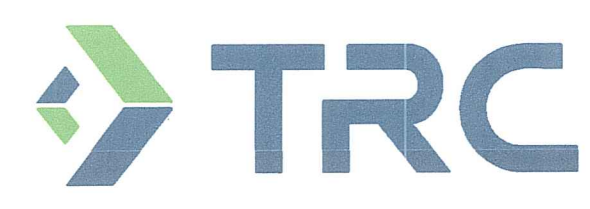
NATURAL HERITAGE AREA

GROUNDWATER PROTECTION OVERLAY, RECHARGE AREA

HOOK ENDS OF FILTER SOCK PERPENDICULAR TO ROAD AT 100-FT INTERVALS FOR FULL LENGTH OF ROAD

MATCH LINE DRAWING NO. C-10

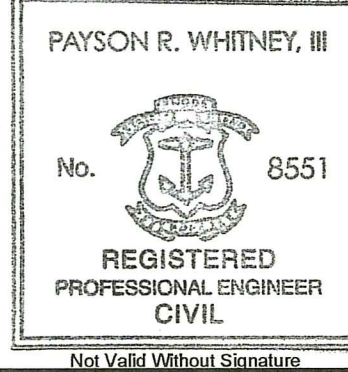
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No.	REVISION	DATE	DRAWN	DESIGN	CHK
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DRAWN BY: AHB DESIGNED BY: JMG CHECKED BY: JMG

PERMITTING PLANS
EROSION AND SEDIMENT CONTROL

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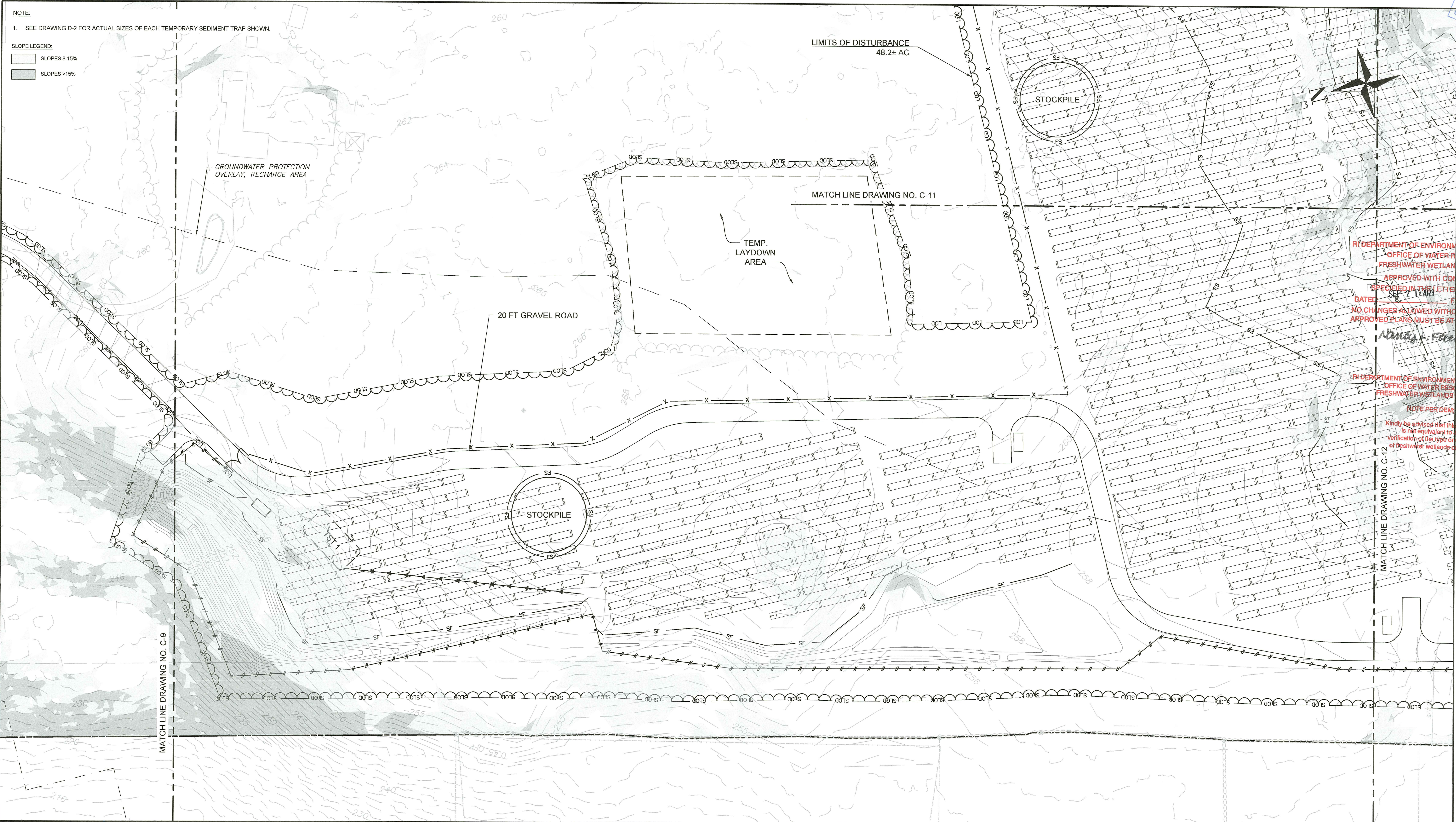
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C-9

PROJECT NO: N031-000
DATE OF ISSUE:
SHEET NO: 14 OF 45

RI Environmental Management
 JUL 18 2023
 Office of Water Resources

NOTE:
 1. SEE DRAWING D-2 FOR ACTUAL SIZES OF EACH TEMPORARY SEDIMENT TRAP SHOWN.

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: SEP 21 2023 FILE #: 22-0475
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy Freeman

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

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

MATCH LINE DRAWING NO. C-12

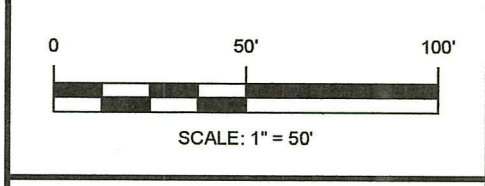
MATCH LINE DRAWING NO. C-9

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

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

EXETER MAIL SOLAR
 AP 71 BLOCK 4 LOT 14
 148 MAIL ROAD
 EXETER, RI 02822

PAYSON R. WHITNEY, III
 No. 8551
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 Not Valid Without Signature



2023-07-14
 12:22-04:0
 0

No.	REVISION	DATE	DRAWN	DESIGN	CHK
0					

DRAWN BY: AHB DESIGNED BY: JMC CHECKED BY: JMC

PERMITTING PLANS
 EROSION AND SEDIMENT CONTROL
FOR PERMITTING ONLY

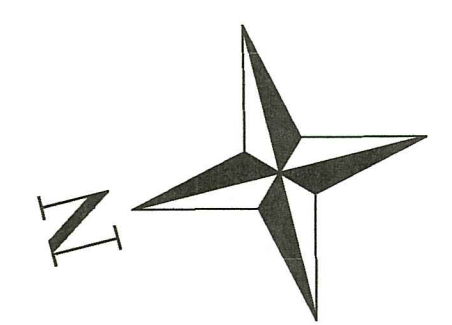
DRAWING NO:
C-10
 PROJECT NO: NES1-000
 DATE OF ISSUE: 2/16/2023
 SHEET NO: 15 OF 45

NOTE: July 13, 2023 - 8:10AM
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RI Department of Environmental Management
JUL 18 2023
Office of Water Resources

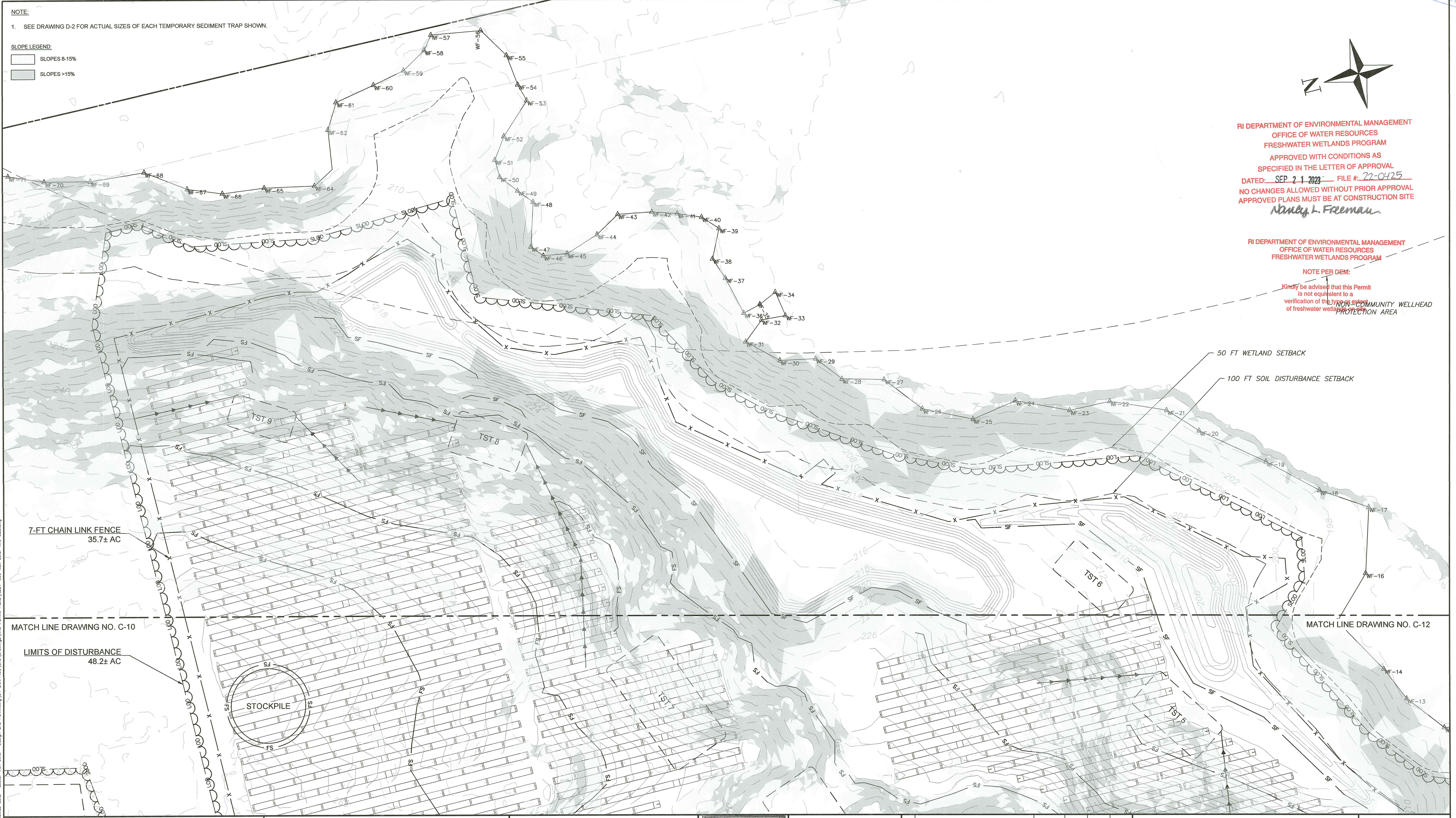
NOTE:
1. SEE DRAWING D-2 FOR ACTUAL SIZES OF EACH TEMPORARY SEDIMENT TRAP SHOWN.

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SLOPES >15%



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATED: SEP 21 2023 FILE #: 22-0425
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Nancy L. Freeman

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OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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DATE: Jul 13, 2023 - 2:14 PM
FILENAME: C:\Users\jwh\OneDrive\Documents\Projects\2023\22-0425\Drawings\2023\Permit Plans\N531-000 Mail Solar Erosion Control.dwg
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AP 71 BLOCK 4 LOT 14
148 MAIL ROAD
EXETER, RI 02822

PAYSON R. WHITNEY, III
No. 8551
REGISTERED PROFESSIONAL ENGINEER
CIVIL
Not Valid Without Signature

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

2023-07-14
12:22:04:0
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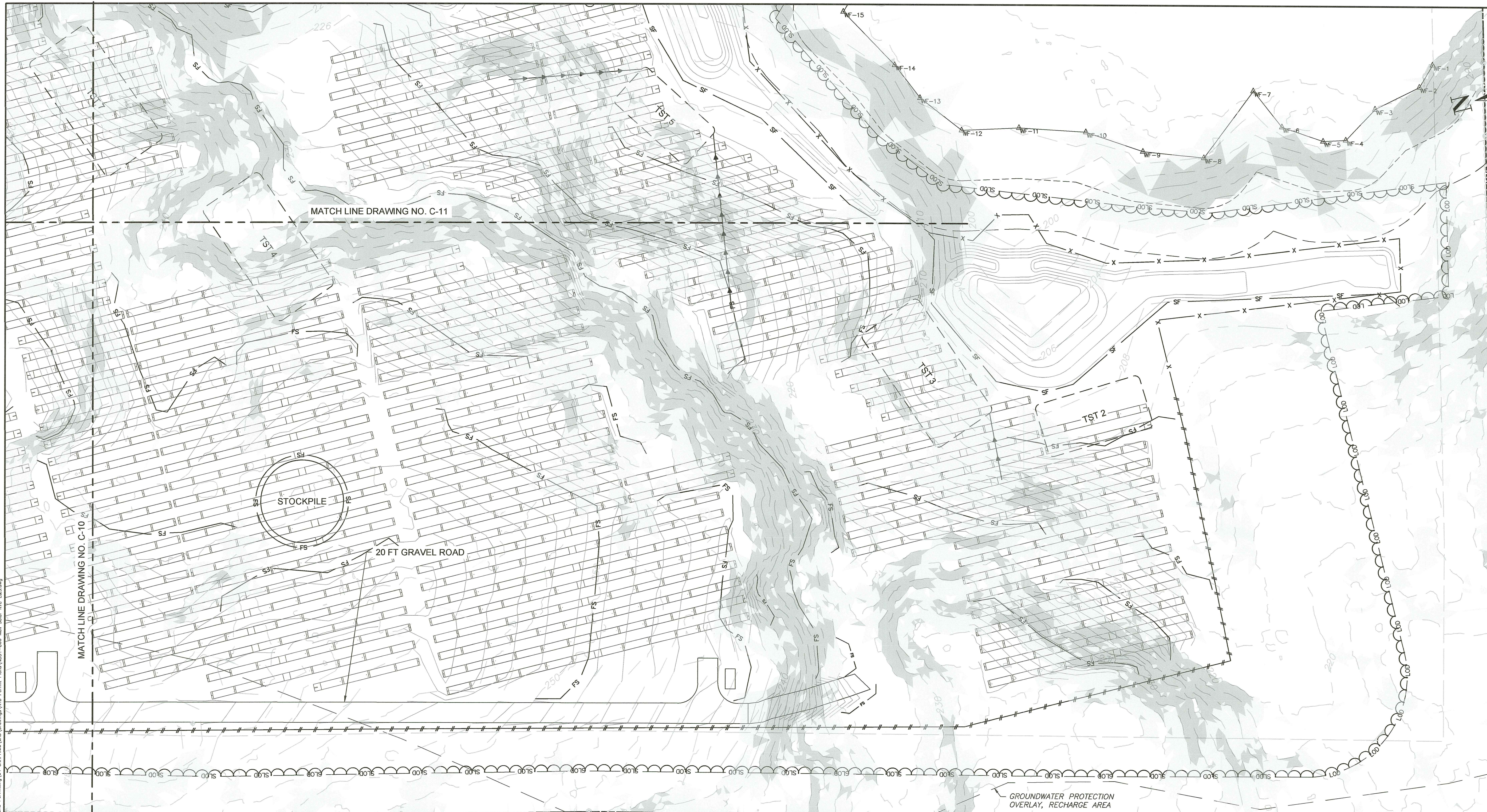
No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: AHB DESIGNED BY: JMG CHECKED BY: JMG

PERMITTING PLANS
EROSION AND SEDIMENT CONTROL
FOR PERMITTING ONLY

DRAWING NO:
C-11
PROJECT NO: N531-000
DATE OF ISSUE: 2/15/2023
SHEET NO: 18 OF 48

RI Environmental Management
 JUL 18 2023
 Office of Water Resources



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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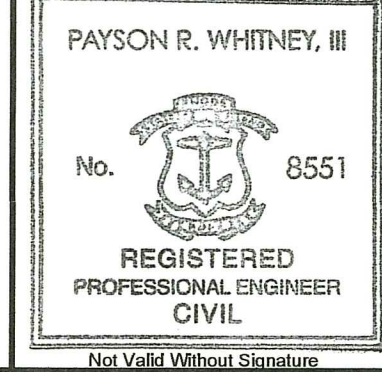
NOTE:
 1. SEE DRAWING D-2 FOR ACTUAL SIZES OF EACH TEMPORARY SEDIMENT TRAP SHOWN.

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 User: jwhitney
 Title: Design and Permitting
 Author: jwhitney
 Date: 07-13-2023 2:10PM
 Plot: 07/13/2023 2:10PM
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 Plot Style: HP DesignJet T1100e.ctb
 Plot Range: Extents
 Plot Scale: 1" = 50'
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RENEW SOLAR RI EXETER MAIL, LLC
 396 SPRINGFIELD AVENUE, 2ND FLOOR
 SUMMIT, NJ 07901

EXETER MAIL SOLAR
 AP 71 BLOCK 4 LOT 14
 148 MAIL ROAD
 EXETER, RI 02822



SCALE: 1" = 50'

2023-07-14
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No.	REVISION	DATE	DRAWN	DESIGN	CHK

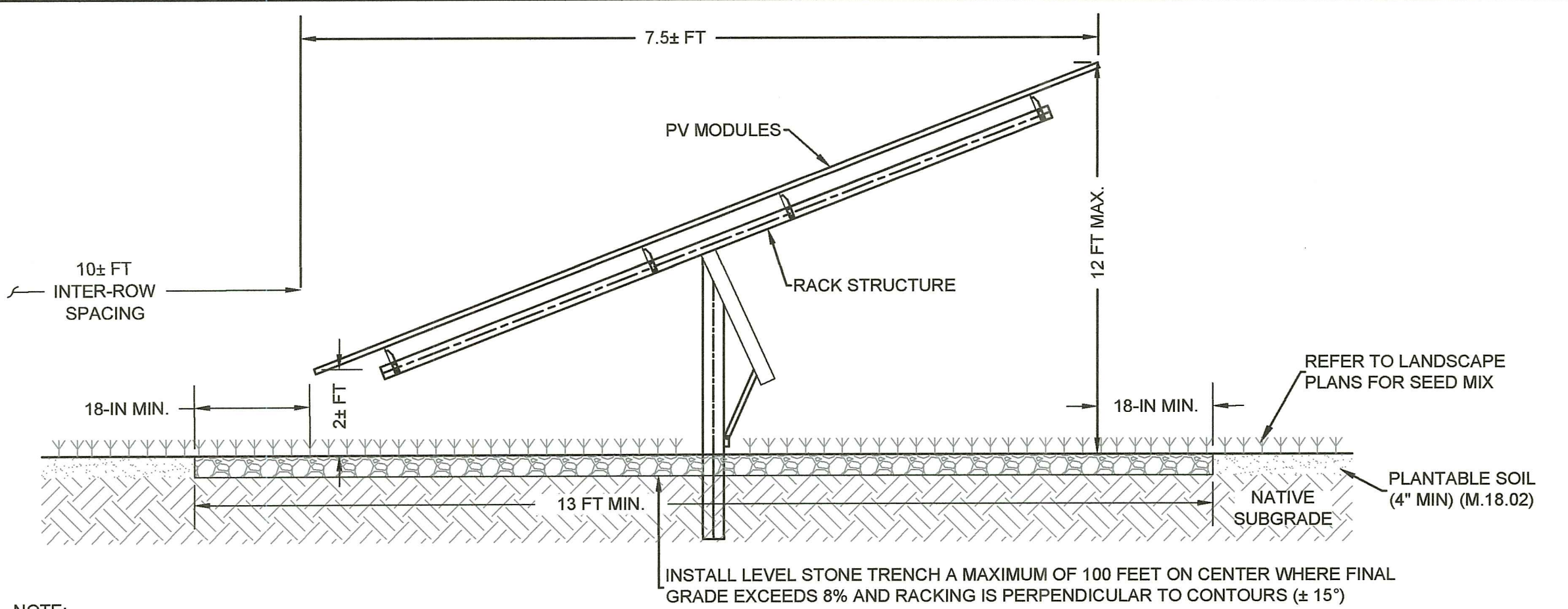
DRAWN BY: AHB DESIGNED BY: JMG CHECKED BY: JMG

**PERMITTING PLANS
 EROSION AND SEDIMENT CONTROL**

FOR PERMITTING ONLY

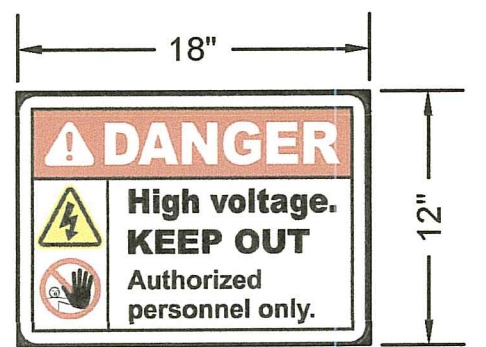
DRAWING NO:
C-12

PROJECT NO: H531-000
 DATE OF ISSUE: 2/15/2023
 SHEET NO: 17 OF 45



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.
 2. THE PROPOSED SOLAR ARRAY RACKING DESIGN PREPARED BY OTHERS UTILIZES A TRACKER MOUNTING SYSTEM. THE PANEL HEIGHT WILL VARY THROUGHOUT THE DAY.

1
 18 SCALE: NTS
TYPICAL SOLAR PANEL AND RACK

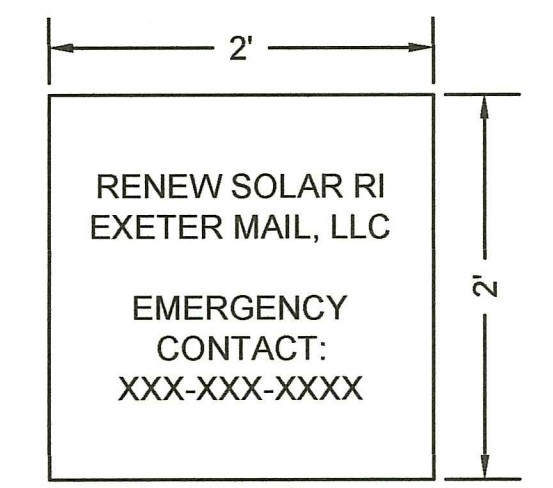


DANGER SIGN NOTES:

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:

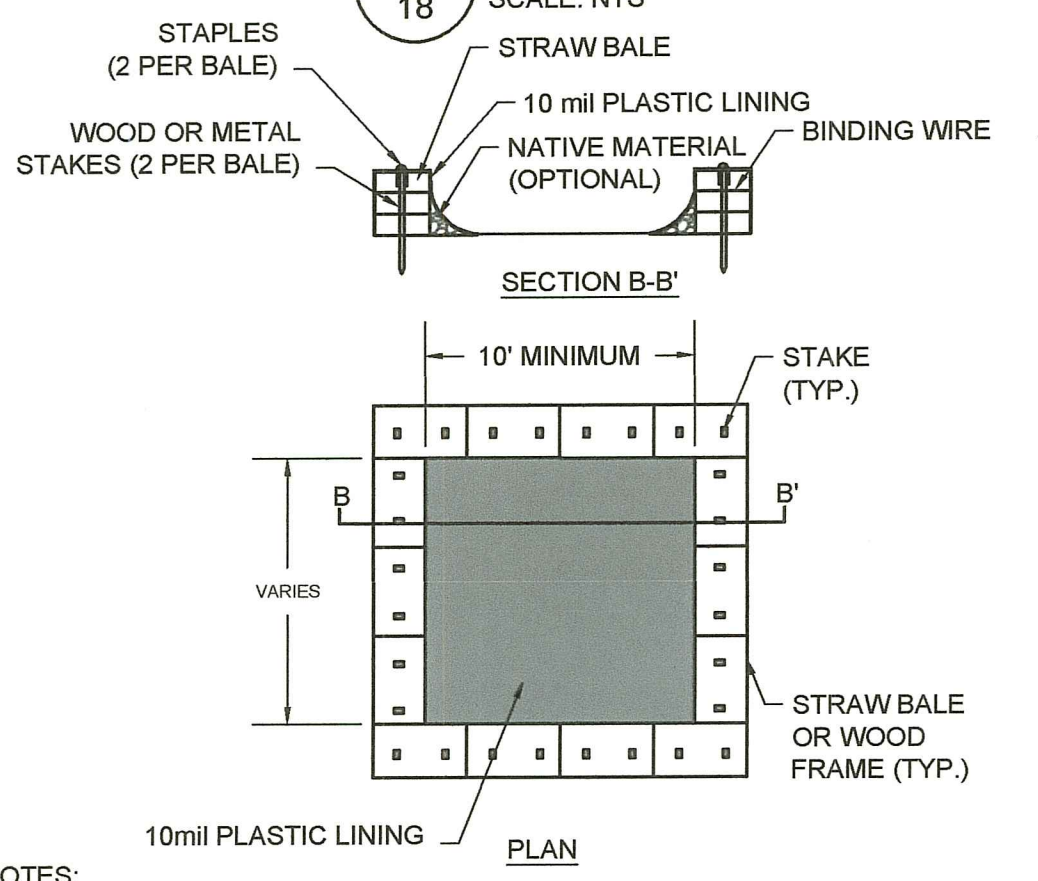
1. SIGN SHALL BE 0.040 IN. RUST FREE ALUMINUM.
2. SIGN SHALL COMPLY WITH ANSI Z535.
3. NO TRESPASSING SIGN TO BE SPACED EVERY 100 FEET ALONG FENCE LINE.



EMERGENCY CONTACT SIGN NOTES:

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

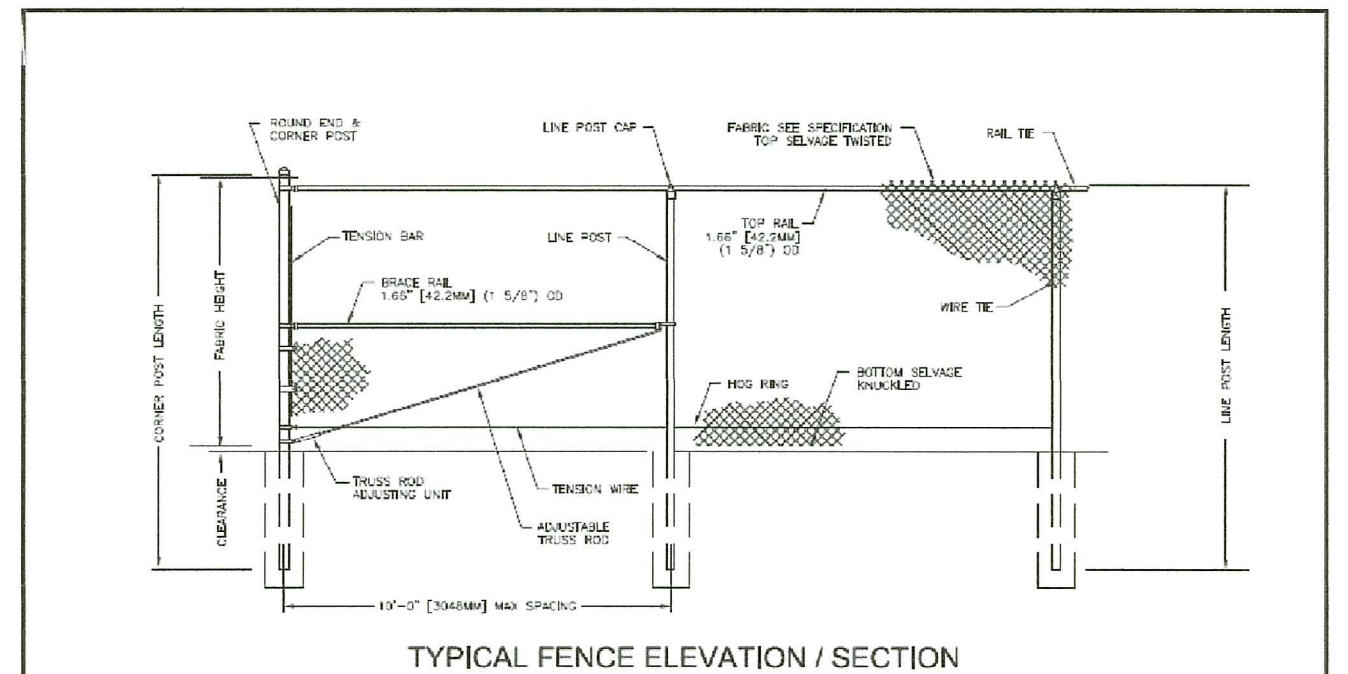
2
 18 SCALE: NTS
TYPICAL SIGN DETAILS



NOTES:

1. CONCRETE WASHOUT SHALL BE CONSTRUCTED PRIOR TO ANY CONCRETE WORK 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.

3
 18 SCALE: NTS
TYPICAL CONCRETE WASHOUT

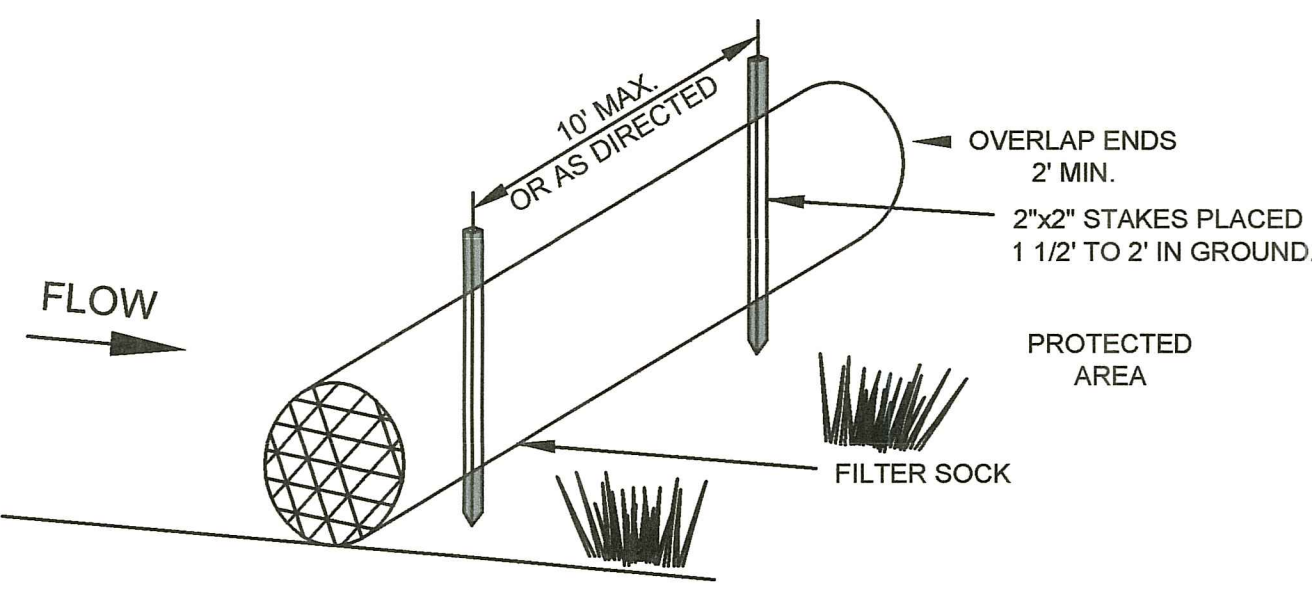


NOTES:
 1. DESIGN AND SPECIFICATION SUBJECT TO CHANGE.
 2. FOOTINGS AND POSTS AS REQUIRED BY SITE CONDITIONS & CODES.

Merchants Metals
 CHAIN LINK
 TYPICAL FENCE ELEVATION / SECTION
 BY: FJR 05.18.05 SCALE: NTS DWG #: CL10
 WWW.MerchantsMetals.com

- 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 GREEN OR BLACK, PVC OR HDPE PRIVACY SLATS WHERE INDICATED ON DRAWINGS L-1 THROUGH L-4.
 7. INSTALL WHITE DEER WARNING FLAGS ON EXTERIOR OF FENCE HORIZONTALLY SPACED APPROXIMATELY 8-10 FEET APART AT AN APPROXIMATE HEIGHT OF 3-4 FEET ABOVE FINISHED GRADE.

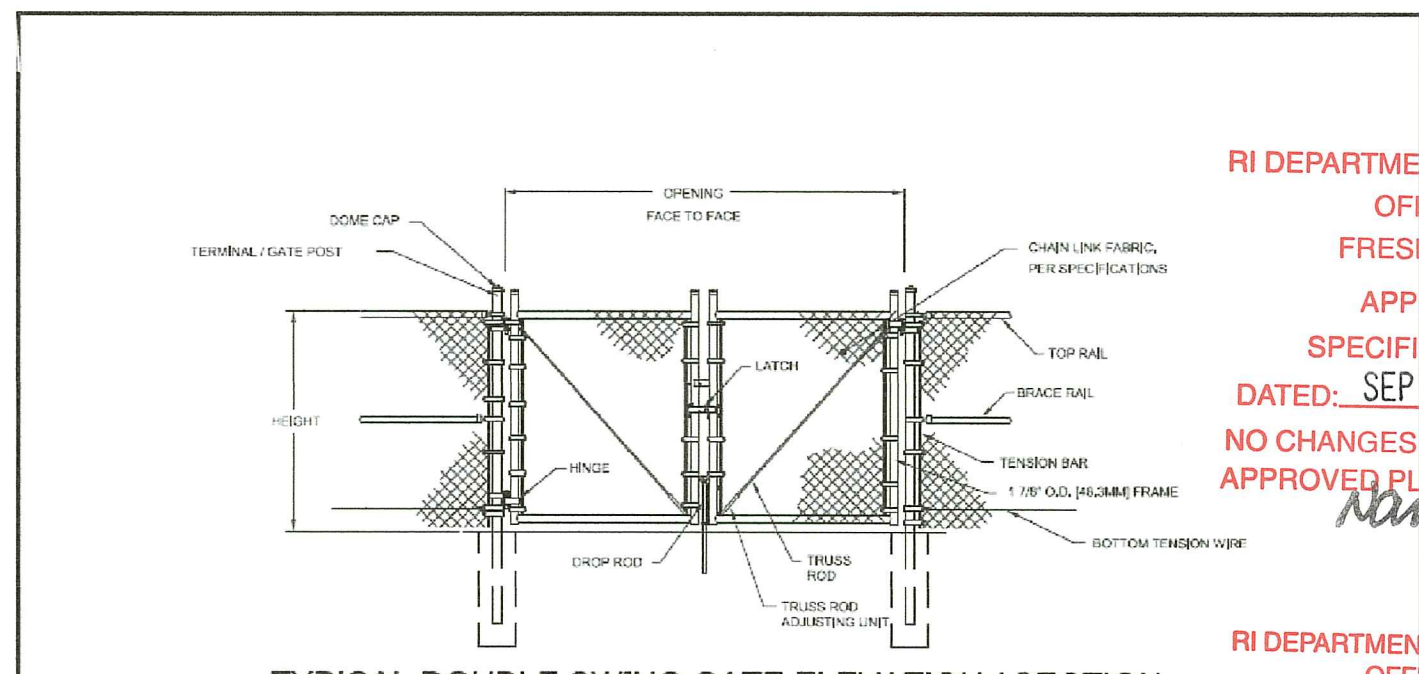
4
 18 SCALE: NTS
TYPICAL 7-FT CHAIN LINK FENCE



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.

5
 18 SCALE: NTS
TYPICAL FILTER SOCK

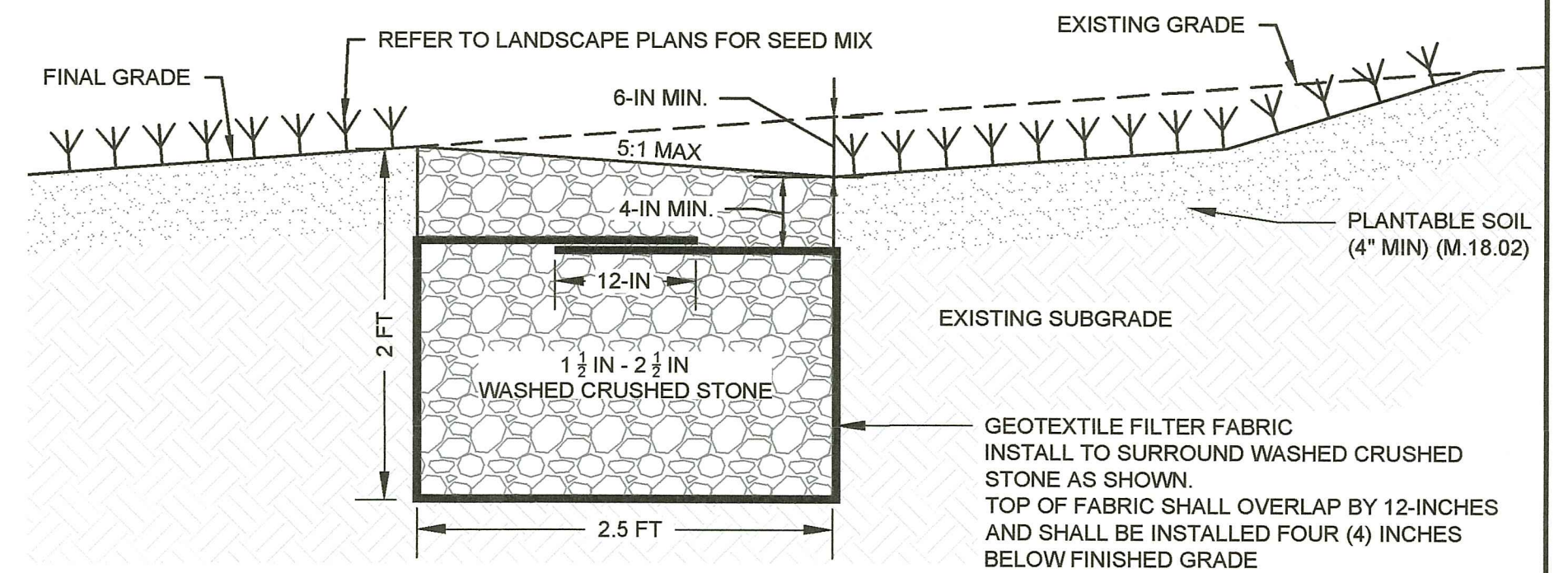


NOTES:
 DESIGN AND SPECIFICATION SUBJECT TO CHANGE.
 VERTICAL & HORIZONTAL DIMENSIONS MAXIMUM 9\"/>

Merchants Metals
 CHAIN LINK
 DOUBLE SWING GATE ELEVATION / SECTION
 BY: ART 2.11.10 SCALE: NTS DWG #: CL12
 WWW.MerchantsMetals.com

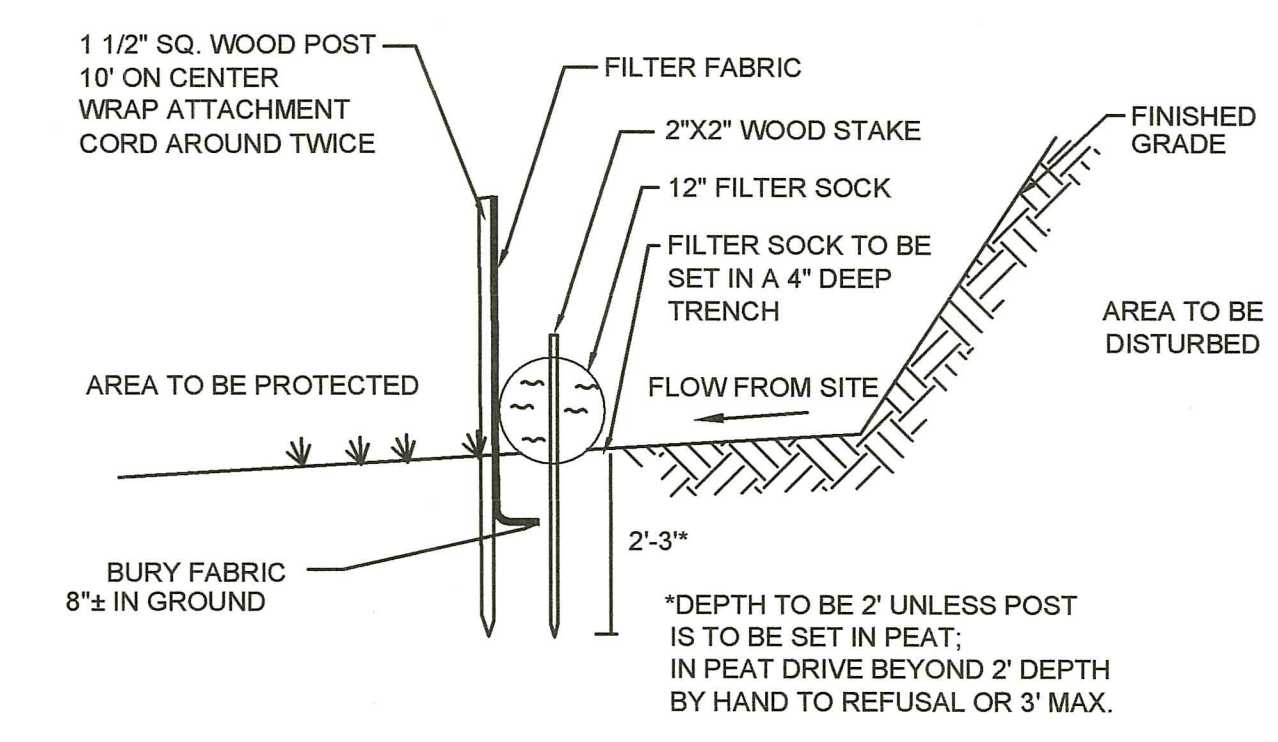
- NOTES:**
1. FINAL GATE DETAIL TO BE SELECTED BY OWNER.
 2. INSTALL GATE PER MANUFACTURER INSTRUCTIONS.
 3. GATE POSTS SHALL BE SET IN CONCRETE.
 4. FENCE HEIGHT SHALL BE 7 FEET. GATE OPENING WIDTH PER PLAN.

6
 18 SCALE: NTS
TYPICAL VEHICLE GATE

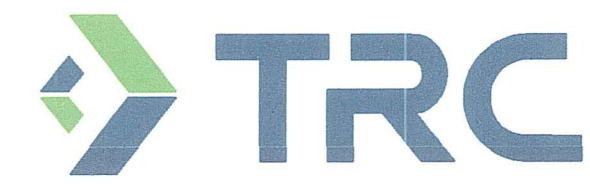


- NOTES:**
1. LEVEL STONE TRENCH SHALL RUN PARALLEL TO FINAL GRADE CONTOUR AT A CONSISTENT ELEVATION FOR A MINIMUM LENGTH OF 13 FEET OR AS NECESSARY TO EXTEND 18 INCHES BEYOND BOTH DRIP EDGES AND CENTER DRIP LINE.
 2. GEOTEXTILE FABRIC: CLASS "C" APPARENT OPENING SIZE (ASTM D-4751).

7
 18 SCALE: NTS
TYPICAL LEVEL STONE TRENCH



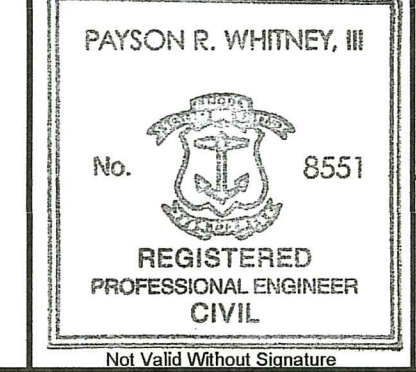
8
 18 SCALE: NTS
TYPICAL COMBINED SILT FENCE & FILTER SOCK



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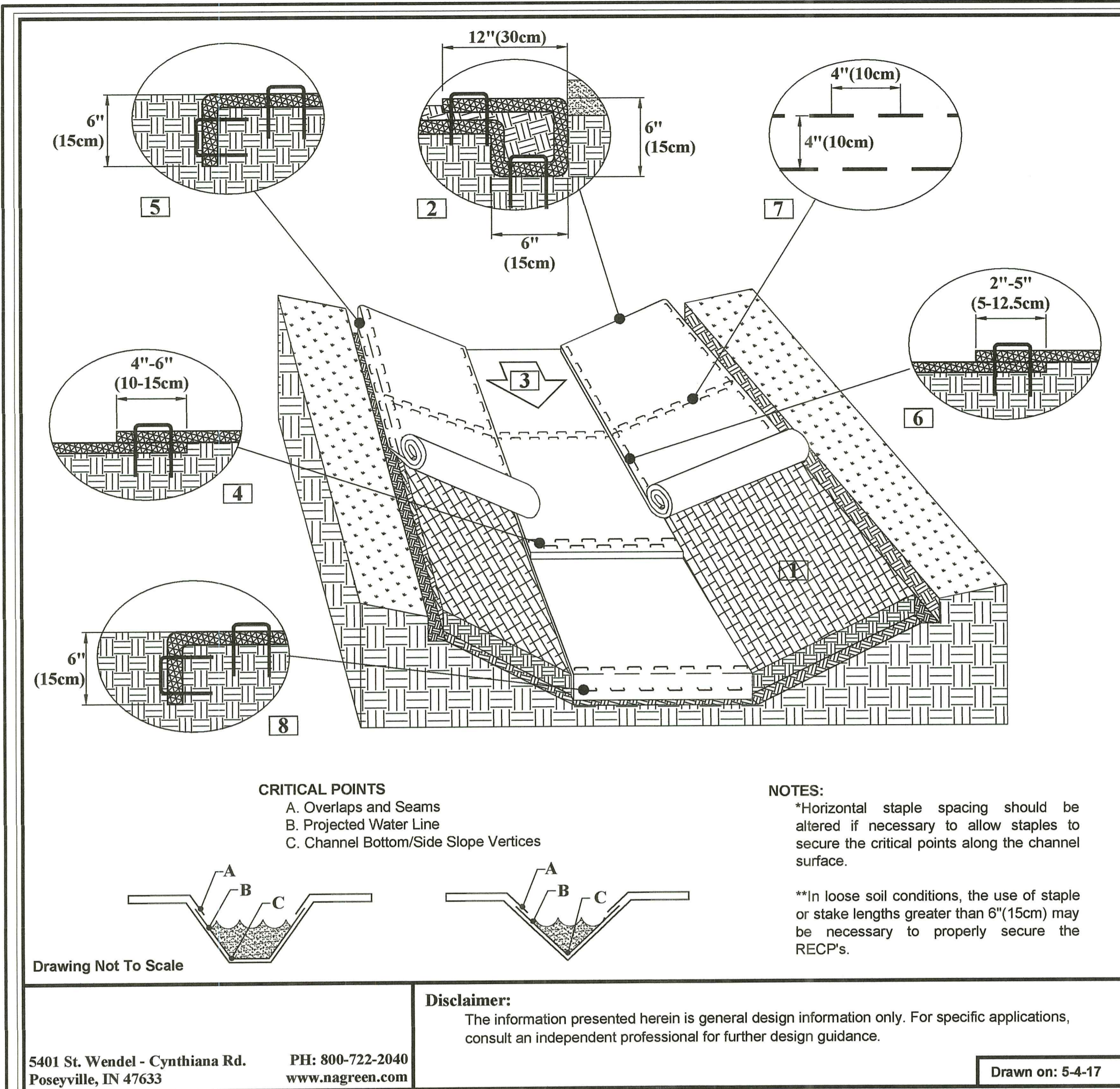
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No.	REVISION	DATE	DATE	GJR	PRW	PRW
1	RESPONSE TO TECHNICAL COMMENTS	7/13/2023		GJR	PRW	PRW

PERMITTING PLANS DETAILS
FOR PERMITTING ONLY

D-1

PROJECT NO: NS31-000
 DATE OF ISSUE: 2/15/2023
 SHEET NO: 18 OF 45

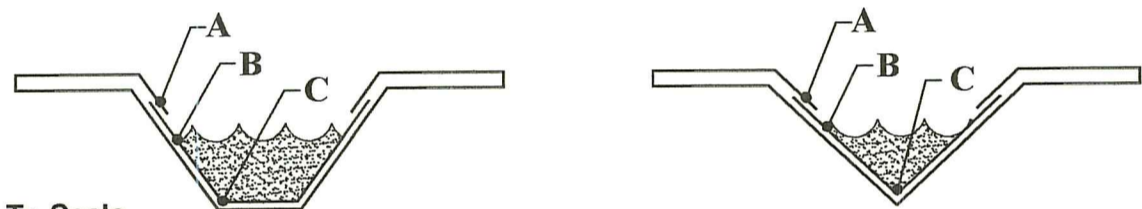


CHANNEL INSTALLATION DETAIL

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.

CRITICAL POINTS

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



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 RECPs.

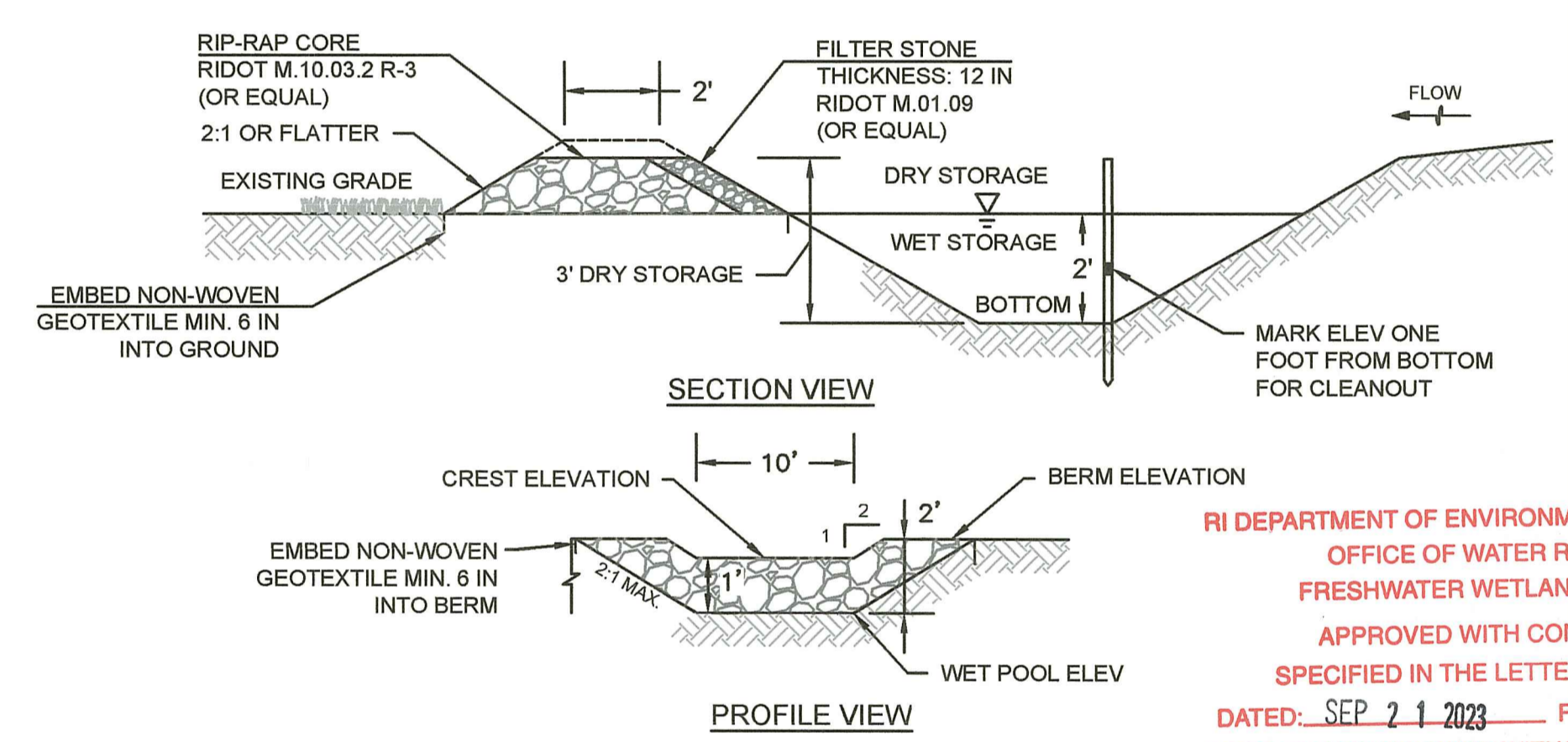
5401 St. Wendel - Cynthiana Rd.
Poseyville, IN 47633
PH: 800-722-2040
www.nagreen.com

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

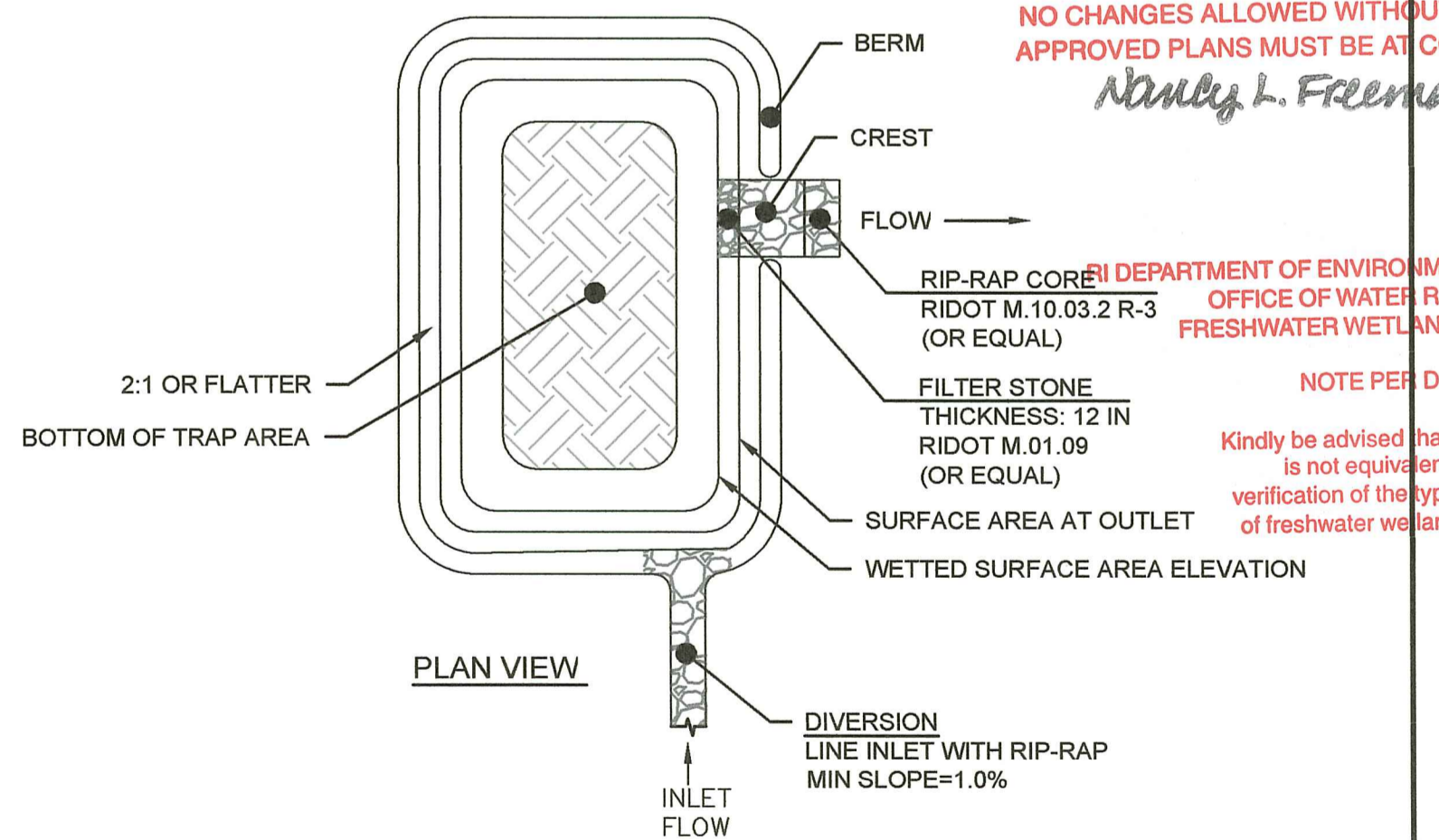
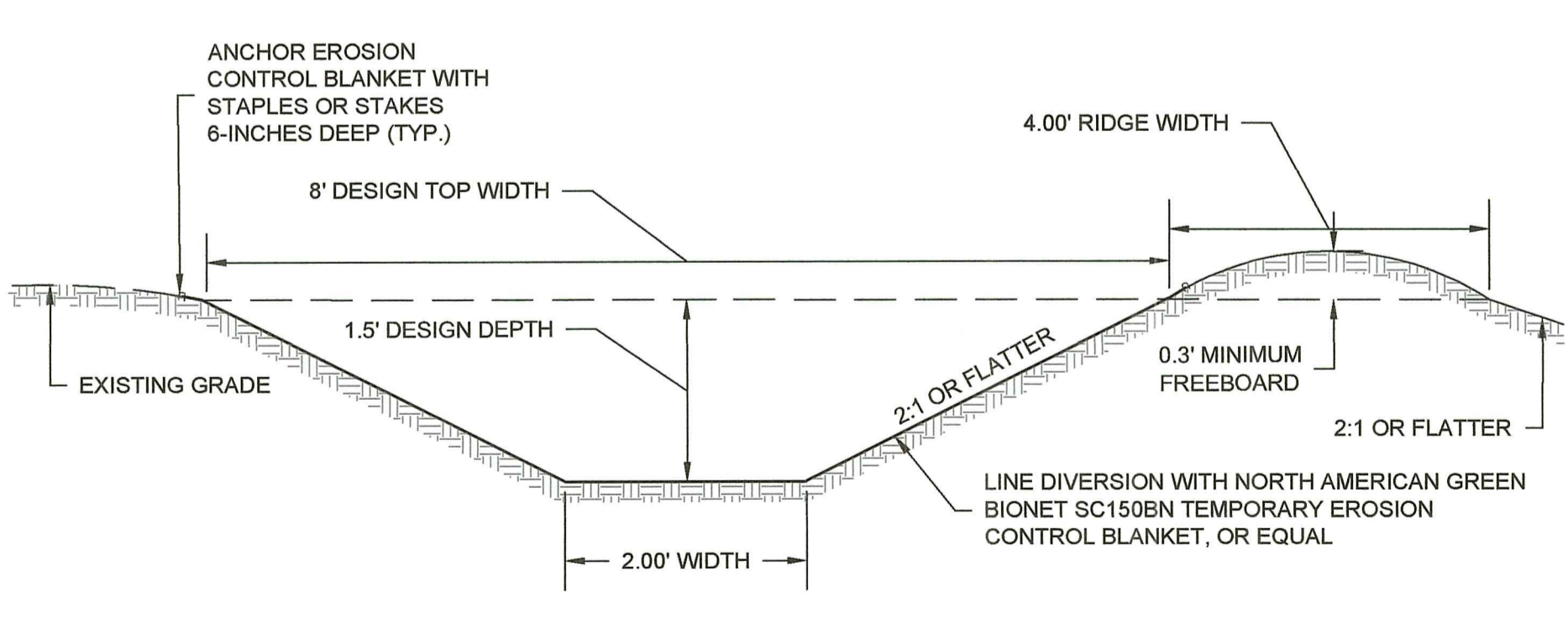
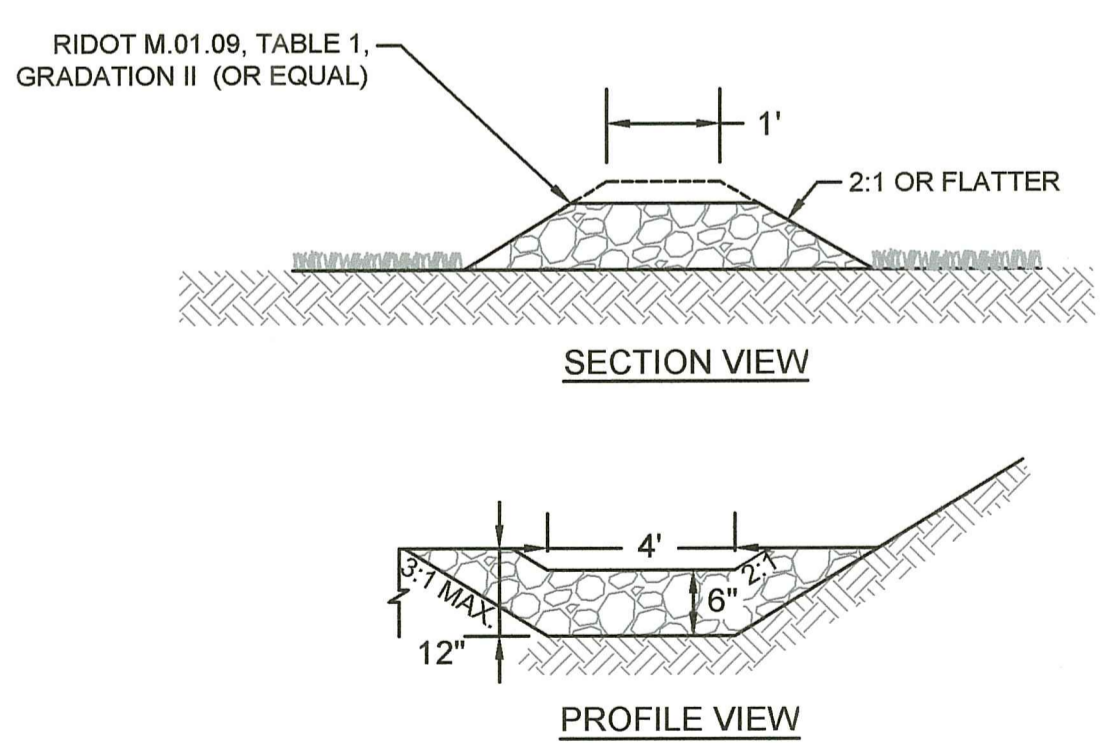
Drawn on: 5-4-17

TEMPORARY SEDIMENT TRAPS SUMMARY TABLE

PARAMETER	TST-1	TST-2	TST-3	TST-4	TST-5	TST-6	TST-7	TST-8	TST-9
DRAINAGE AREA, AC	1.1	3.0	4.8	4.9	2.3	1.8	5.0	2.3	1.2
WET VOLUME RQD, CF	1,916	5,392	8,662	8,833	4,158	3,322	9,097	4,232	2,254
DRY VOLUME RQD, CF	1,916	5,392	8,662	8,833	4,158	3,322	9,097	4,232	2,254
MINIMUM DEPTHS (MEASURED FROM BOTTOM OF SEDIMENT TRAP)									
SEDIMENT REMOVAL	1'	1'	1'	1'	1'	1'	1'	1'	1'
BOTTOM OF FILTER STONE (WET STORAGE)	2'	2'	2'	2'	2'	2'	2'	2'	2'
WEIR CREST (DRY STORAGE)	3'	3'	3'	3'	3'	3'	3'	3'	3'
BERM	4'	4'	4'	4'	4'	4'	4'	4'	4'
MINIMUM AREAS (SQUARE FEET)									
WET STORAGE SURFACE AREA (AW)	1,798	5,200	8,448	8,448	4,048	3,198	8,710	3,870	2,176
DRY STORAGE SURFACE AREA (AD)	2,178	5,832	9,248	9,248	4,608	3,698	9,522	4,418	2,592



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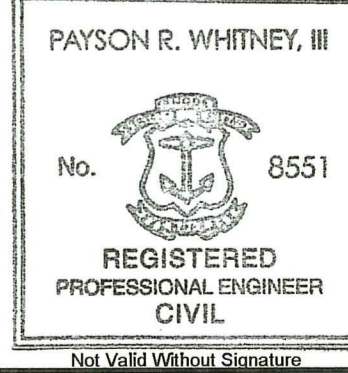


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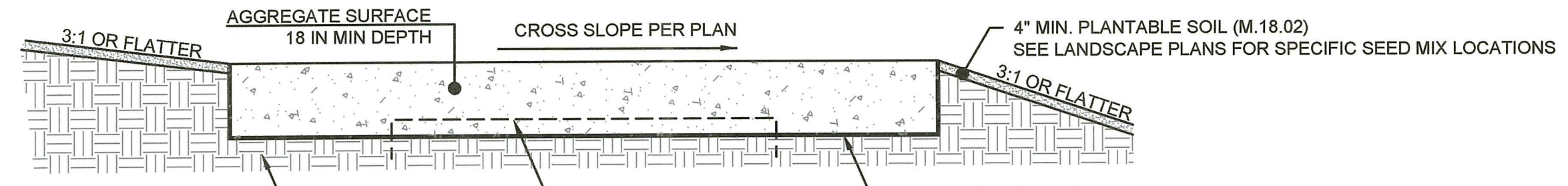


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No.	REVISION	DATE	DATE	GJR	JMG	JMG
1	RESPONSE TO RIDEM TECHNICAL COMMENTS	6/20/2023		GJR	JMG	JMG
	REVISION					CHK

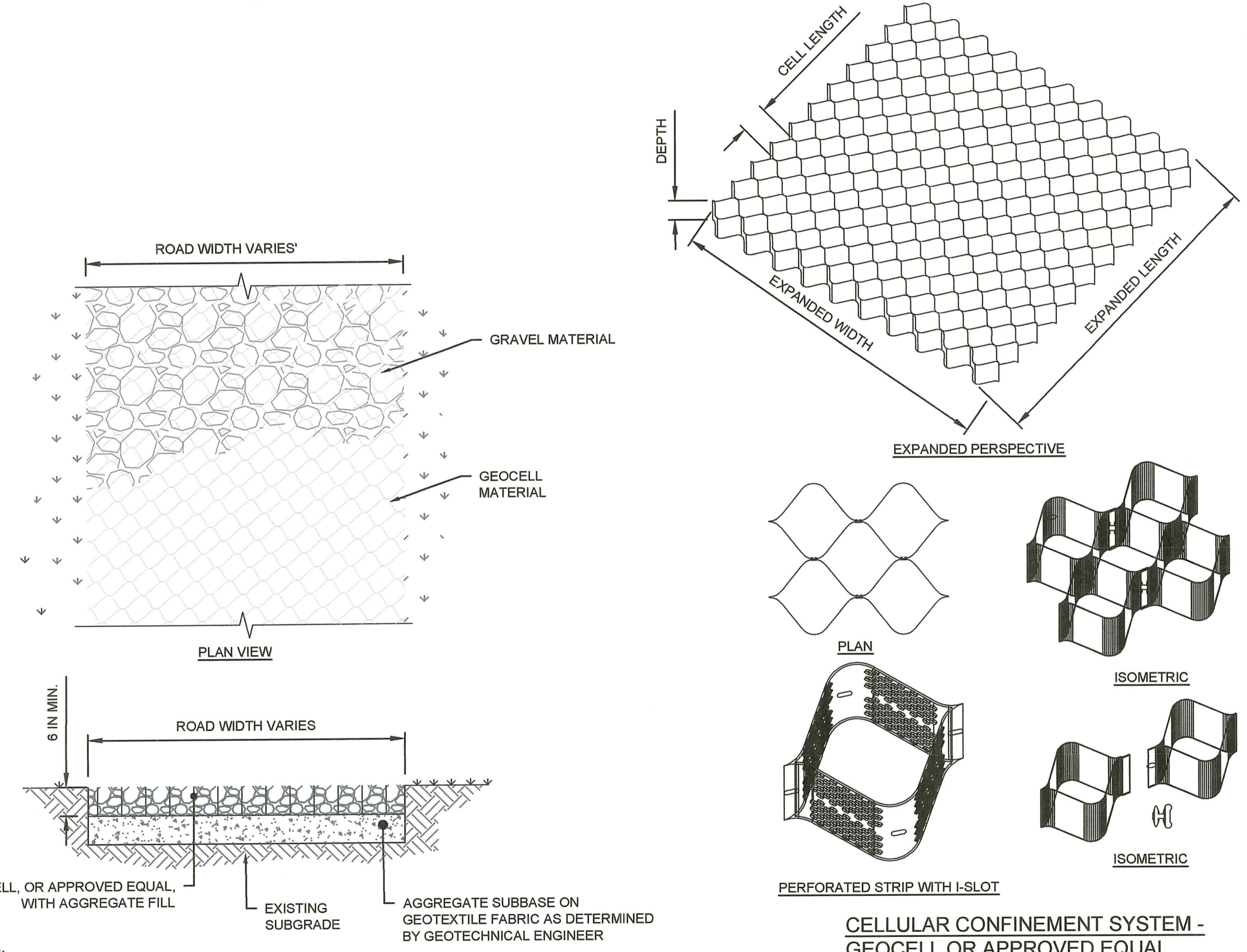
PERMITTING PLANS
DETAILS
FOR PERMITTING ONLY

D-2
PROJECT NO: NS31-000
DATE OF ISSUE: 2/15/2023
SHEET NO: 19 OF 46



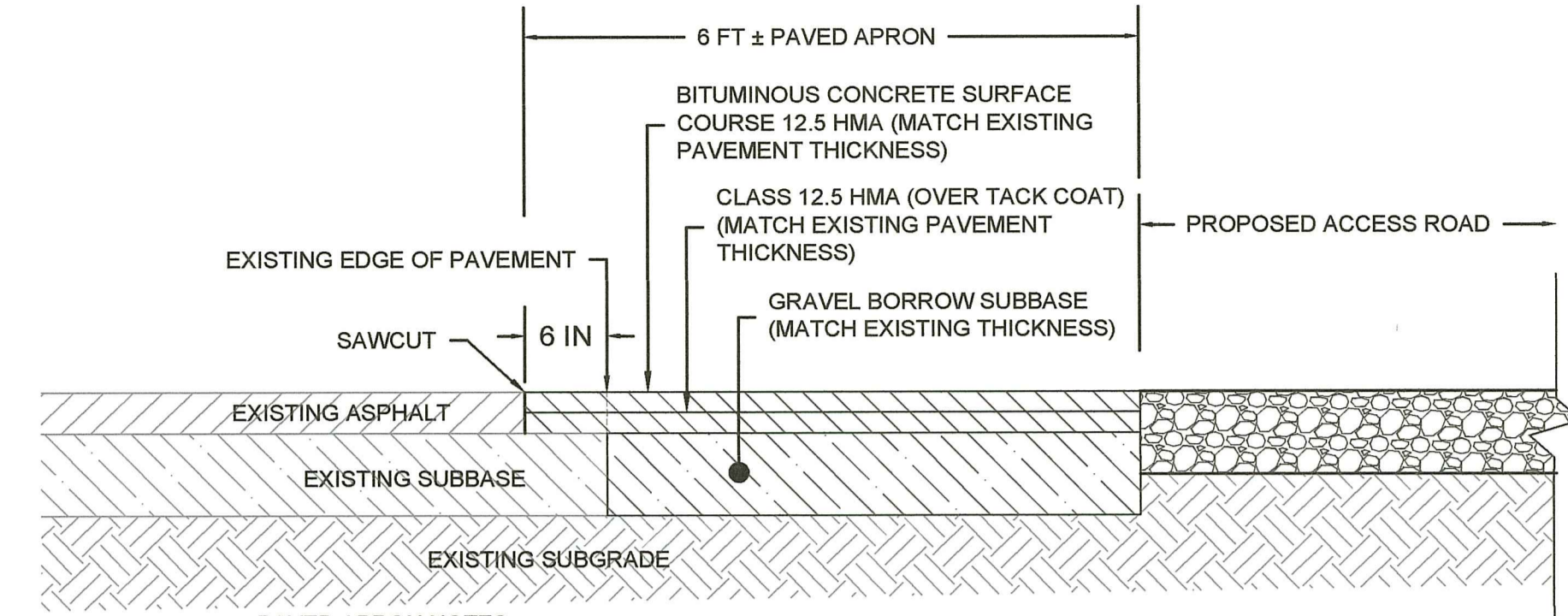
- NOTES:**
1. WIDTH OF THE ACCESS ROAD SHALL BE 20 FEET.
 2. EXISTING TOPSOIL SHALL BE REMOVED UNTIL A SOLID NATIVE SUB-BASE HAS BEEN REACHED.
 3. A GEOTEXTILE FABRIC SHALL BE INSTALLED ON TOP OF THE SOLID NATIVE SUB-BASE BEFORE THE AGGREGATE SUB-BASE IS INSTALLED.
 4. FROM THE PAVED APRON TO STATION 2+50 AND FROM STATION 14+40 TO THE END OF THE ROAD THE AGGREGATE SURFACE SHALL BE A MINIMUM OF 18 INCHES IN DEPTH AND CONSTRUCTED COMPLETELY OUT OF ANGULAR GRAVEL BORROW MEETING THE GRADATION OF RIDOT M.01.09 TABLE I, COLUMN IA, TYPE IA OR WELL-GRADED CRUSHED STONE RANGING IN SIZE FROM 1/2 INCH TO 1 3/4 INCH. BETWEEN STATIONS 2+50 TO 14+40 THE AGGREGATE SURFACE SHALL BE CONSTRUCTED COMPLETELY OUT OF WASHED ANGULAR CRUSHED STONE OR WASHED CRUSHED GRAVEL MEETING THE GRADATION OF RIDOT M.01.09 TABLE I, COLUMN II.
 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, REPLISHMENT OF THE AGGREGATE SURFACE, AND SURFACE SCARIFICATION SHALL BE COMPLETED AS NECESSARY.

1 TYPICAL UNREINFORCED GRAVEL ROAD
SCALE: NTS



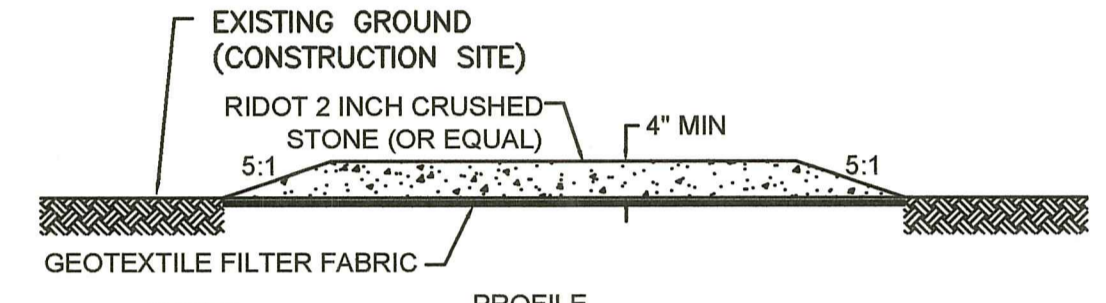
- NOTES:**
1. GEOCELL FILL MATERIAL SHALL CONSIST OF CLEAN, WASHED, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF RIDOT M.01.09, TABLE I, COLUMN II. CRUSHED STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. CRUSHED STONE SURFACE MATERIAL SHALL NOT BE COMPACTED.
 2. REFER TO THE LAYOUT AND MATERIALS DRAWINGS FOR LOCATIONS OF GEOCELL REINFORCEMENT.

2 TYPICAL REINFORCED ACCESS ROAD
SCALE: NTS



- PAVED APRON NOTES:**
1. MATCH EXISTING DRAINAGE PATTERNS WITHIN MAIL ROAD RIGHT OF WAY.
 2. SAW CUT EXISTING PAVEMENT 6 INCHES FROM EDGE OF PAVEMENT. TACK COAT FACE BEFORE PAVING.

3 TYPICAL PAVED APRON
SCALE: NTS



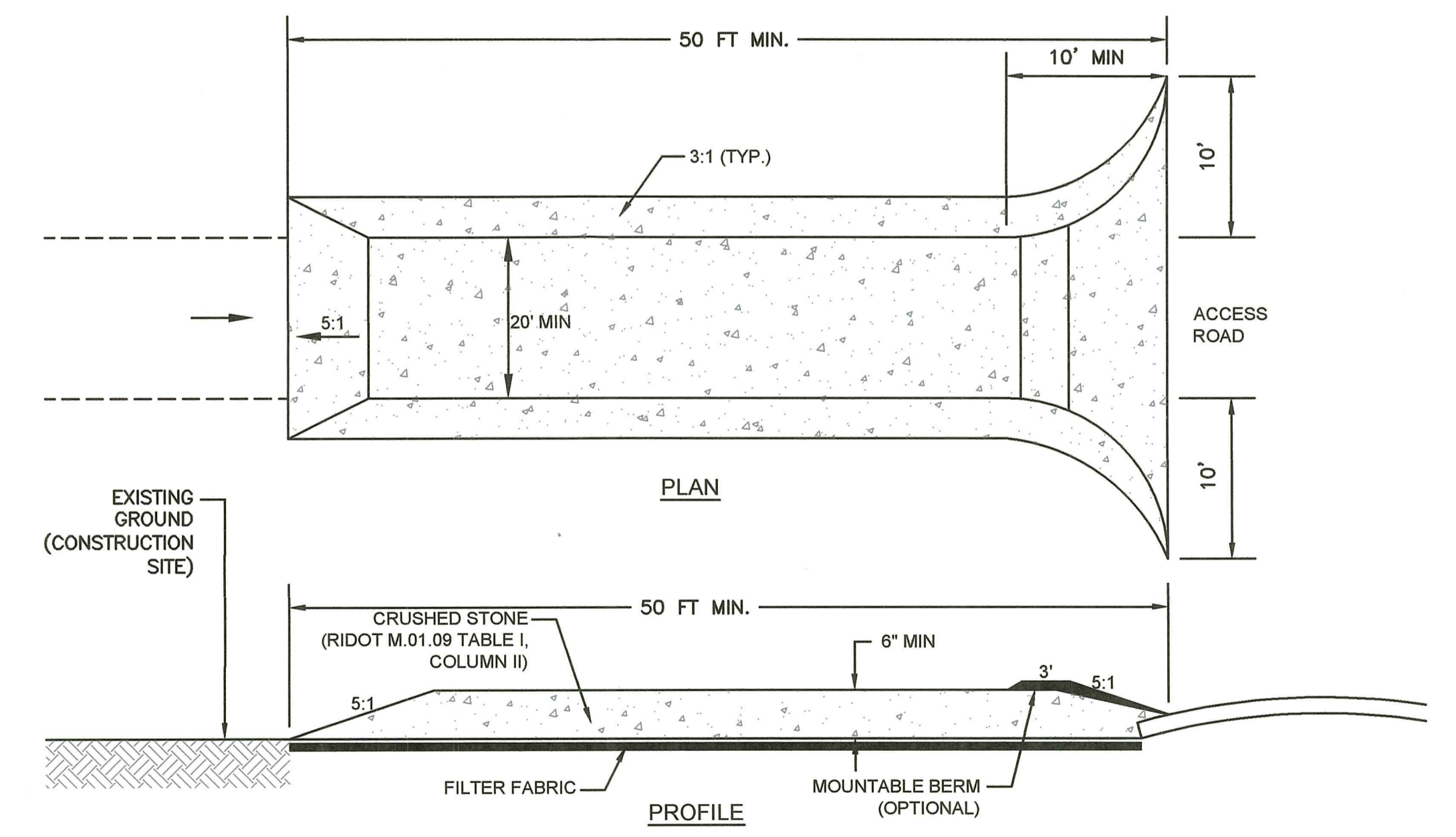
- NOTES:**
1. REFER TO DRAWING N-1 FOR TEMPORARY LAYDOWN AREA RESTORATION NOTES.

4 TYPICAL LAYDOWN AREA
SCALE: NTS

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL DATED: SEP 21 2023 FILE #: 22-0435
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL APPROVED ALLOWANCES MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

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

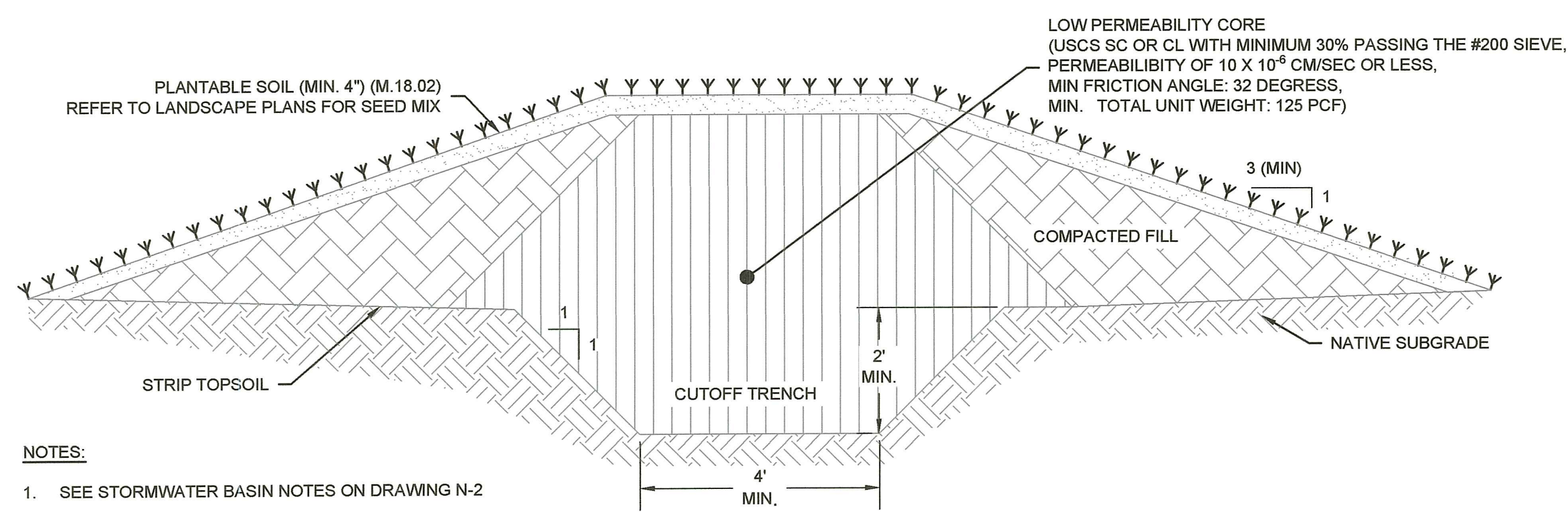
NOTE PER DEM:
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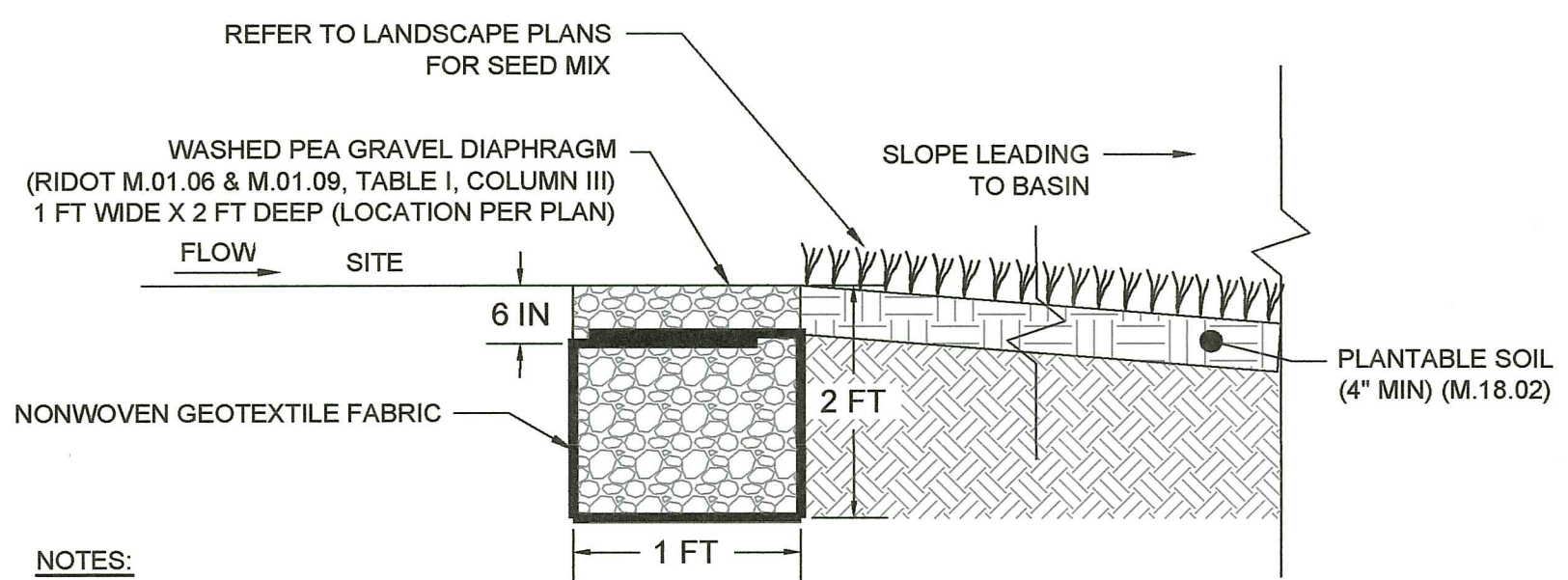
5 TYPICAL CONSTRUCTION ENTRANCE
SCALE: NTS

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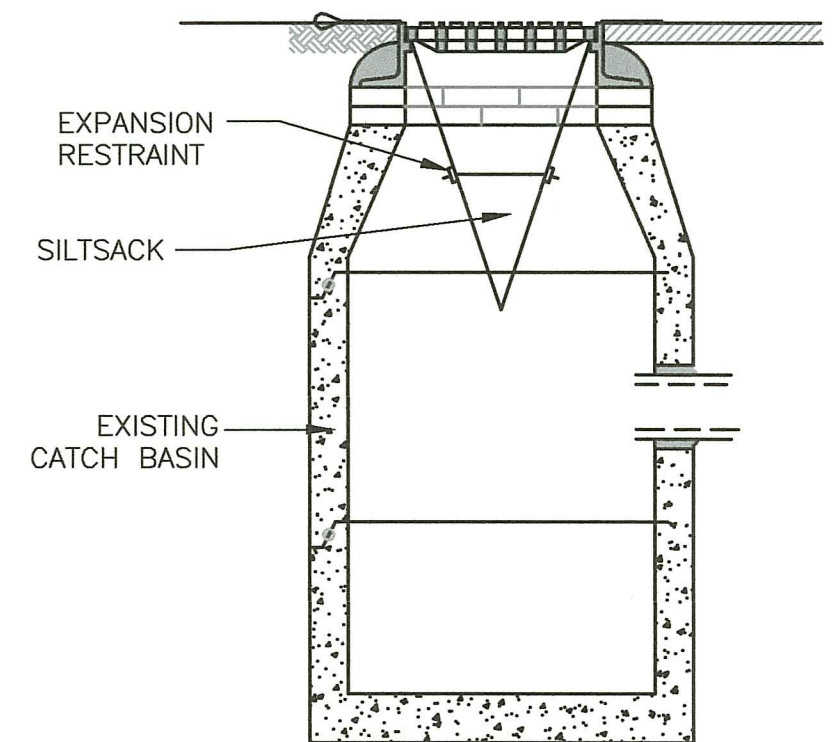
<p>404 Wyman Street, Suite 375 Waltham, Massachusetts 02451 p 781.419.7696 www.trccompanies.com</p>	<p>RENEW SOLAR RI EXETER MAIL, LLC 396 SPRINGFIELD AVENUE, 2ND FLOOR SUMMIT, NJ 07901</p>	<p>EXETER MAIL SOLAR AP 71 BLOCK 4 LOT 14 148 MAIL ROAD EXETER, RI 02822</p>	<p>PAYSON R. WHITNEY, III No. 8551 REGISTERED PROFESSIONAL ENGINEER CIVIL</p>	<p>2023-07-14 12:23-04:0 0</p>	<table border="1"> <tr> <th>No.</th> <th>REVISION</th> <th>DATE</th> <th>DRAWN</th> <th>DESIGN</th> <th>CHK</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	REVISION	DATE	DRAWN	DESIGN	CHK							<p>PERMITTING PLANS DETAILS</p> <p>FOR PERMITTING ONLY</p>	<p>D-3</p> <p>PROJECT NO: N531-000 DATE OF ISSUE: 2/15/2023 SHEET NO: 20 OF 45</p>
						No.	REVISION	DATE	DRAWN	DESIGN	CHK								
<p>DRAWN BY: GJR DESIGNED BY: JMG CHECKED BY: JMG</p>																			



1 TYPICAL BASIN EMBANKMENT CROSS SECTION
 SCALE: NTS



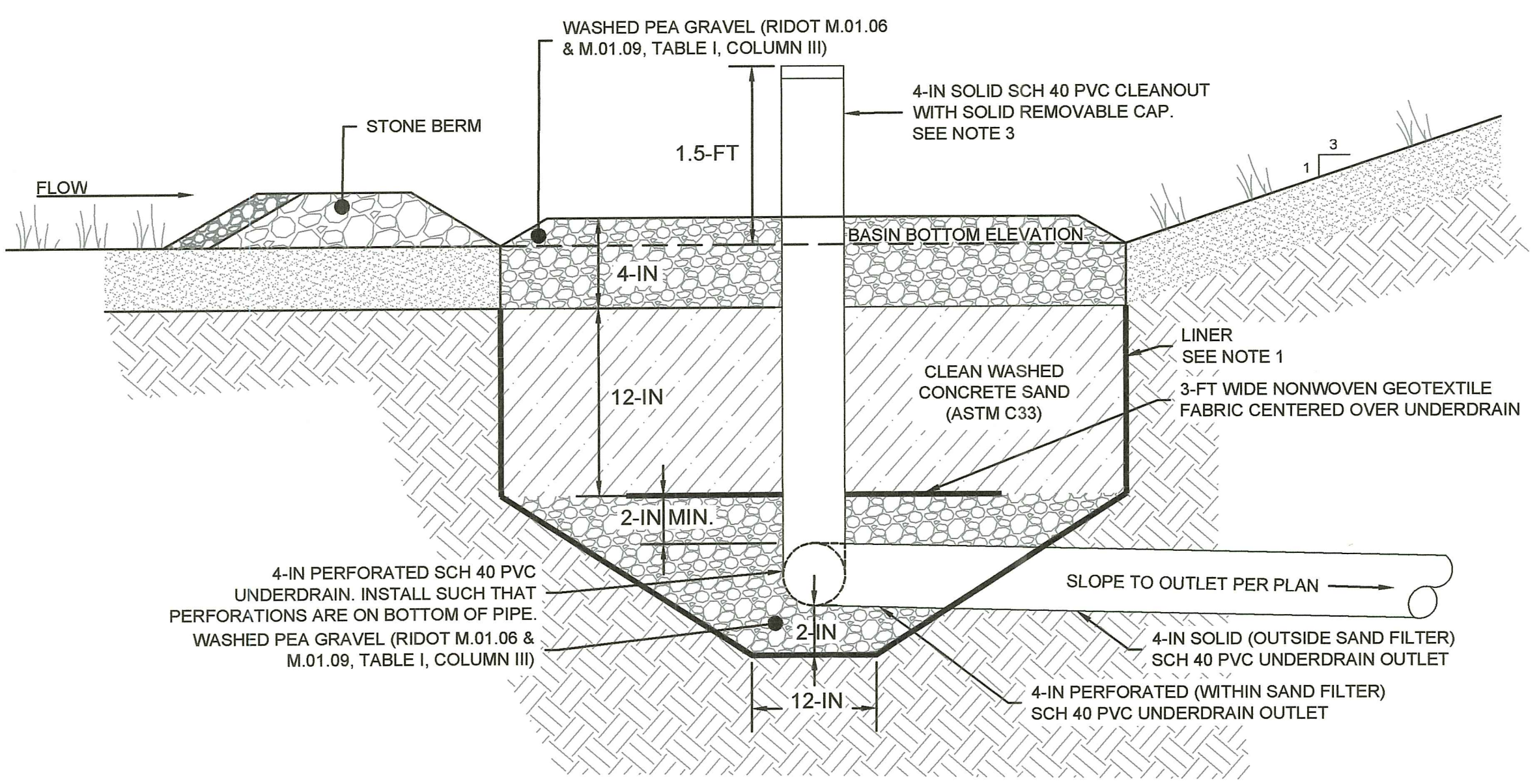
2 TYPICAL PEA GRAVEL DIAPHRAGM
 SCALE: NTS



3 TYPICAL SILT SACK
 SCALE: NTS

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Nancy L. Freeman

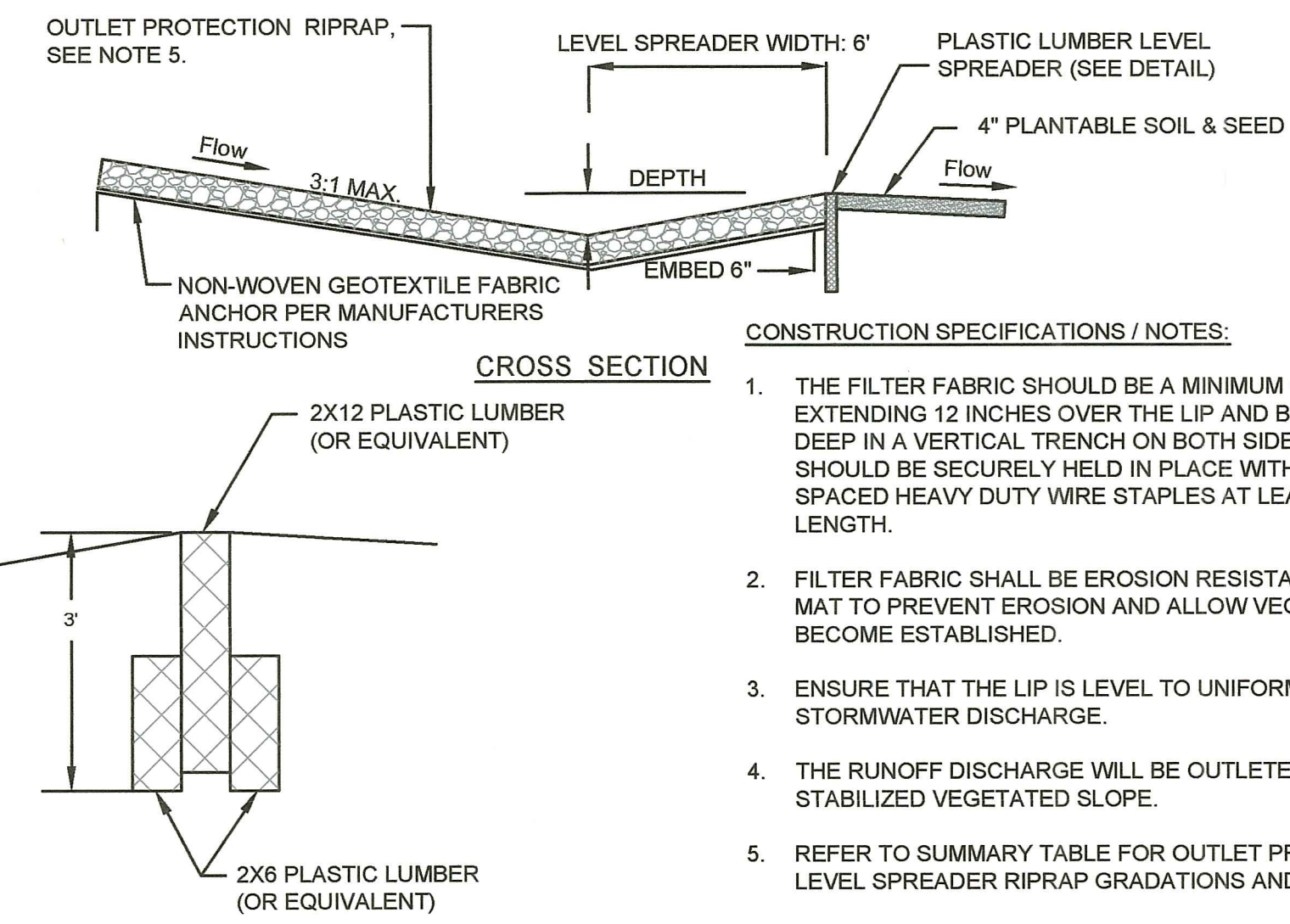
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- NOTES:
- THE LINER MATERIAL FOR BASIN 2 SHALL CONSIST OF NONWOVEN GEOTEXTILE.
 - ALL LINER MATERIALS SHALL BE INSTALLED AND ANCHORED PER MANUFACTURER INSTRUCTIONS.
 - UNDERDRAIN CLEANOUT SHALL BE PLACED AT THE END OF THE UNDERDRAIN WITHIN THE SAND FILTER.

SAND FILTER SUMMARY TABLE	
BASIN #	BASIN 2
BASIN BOTTOM ELEVATION	257
TOP OF PEA GRAVEL ELEVATION	257.17
BOTTOM OF SAND ELEVATION	255.84
SAND FILTER SURFACE AREA (SQUARE FEET)	240
TOP OF SAND TO ESHGW DEPTH (FEET)	3.5±

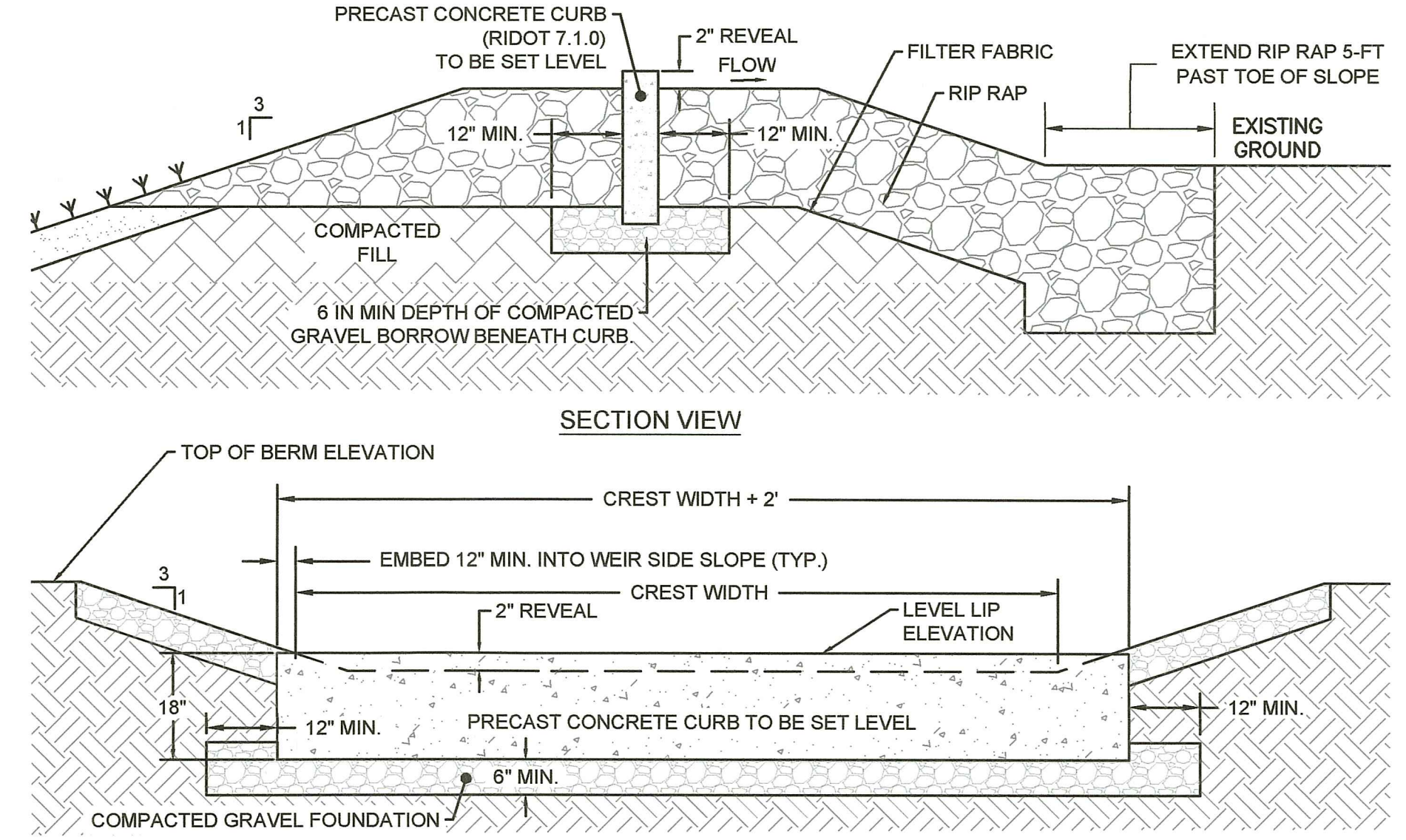
4 TYPICAL SAND FILTER
 SCALE: NTS



- CONSTRUCTION SPECIFICATIONS / NOTES:
- THE FILTER FABRIC SHOULD BE A MINIMUM OF 6 FEET WIDE EXTENDING 12 INCHES OVER THE LIP AND BURIED 6 INCHES DEEP IN A VERTICAL TRENCH ON BOTH SIDES. THE FABRIC SHOULD BE SECURELY HELD IN PLACE WITH CLOSELY SPACED HEAVY DUTY WIRE STAPLES AT LEAST 12 INCHES IN LENGTH.
 - FILTER FABRIC SHALL BE EROSION RESISTANT MATERIAL OR MAT TO PREVENT EROSION AND ALLOW VEGETATION TO BECOME ESTABLISHED.
 - ENSURE THAT THE LIP IS LEVEL TO UNIFORMLY SPREAD STORMWATER DISCHARGE.
 - THE RUNOFF DISCHARGE WILL BE OUTLETED ONTO A STABILIZED VEGETATED SLOPE.
 - REFER TO SUMMARY TABLE FOR OUTLET PROTECTION AND LEVEL SPREADER RIPRAP GRADATIONS AND THICKNESSES.

LEVEL SPREADER SUMMARY TABLE					
BASIN #	BASIN 1	BASIN 2	BASIN 3	BASIN 4	BASIN 5
DEPTH (INCHES)	6	6	6	7	6
LEVEL LIP LENGTH (FEET)	17	6	26	27	16
RIPRAP GRADATION	R-3	R-3	R-3	R-4	R-3
RIPRAP THICKNESS (INCHES)	12	12	12	18	12

5 TYPICAL LEVEL SPREADER
 SCALE: NTS



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

EMERGENCY SPILLWAY SUMMARY TABLE					
BASIN #	BASIN 1	BASIN 2	BASIN 3	BASIN 4	BASIN 5
TOP OF BERM ELEVATION	253.00	258.25	206.25	208.00	219.26
LEVEL LIP ELEVATION	252.00	257.30	204.70	206.10	217.80
CREST WIDTH (FEET)	10	4	30	10	10
RIPRAP GRADATION	R-3	R-3	R-3	R-3	R-3
RIPRAP THICKNESS (INCHES)	12	12	12	12	12

6 TYPICAL EMERGENCY SPILLWAY
 SCALE: NTS

DATE: Jul 13, 2023 - 2:19PM FILENAME: C:\Users\jwh131-000\Documents\RenewSolar\RI\Drawings\WTC Permit\Drawings\WTC Permit - Plans\W31-000 Mail Solar - RC - Detail.dwg

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 148 MAIL ROAD
 EXETER, RI 02822

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

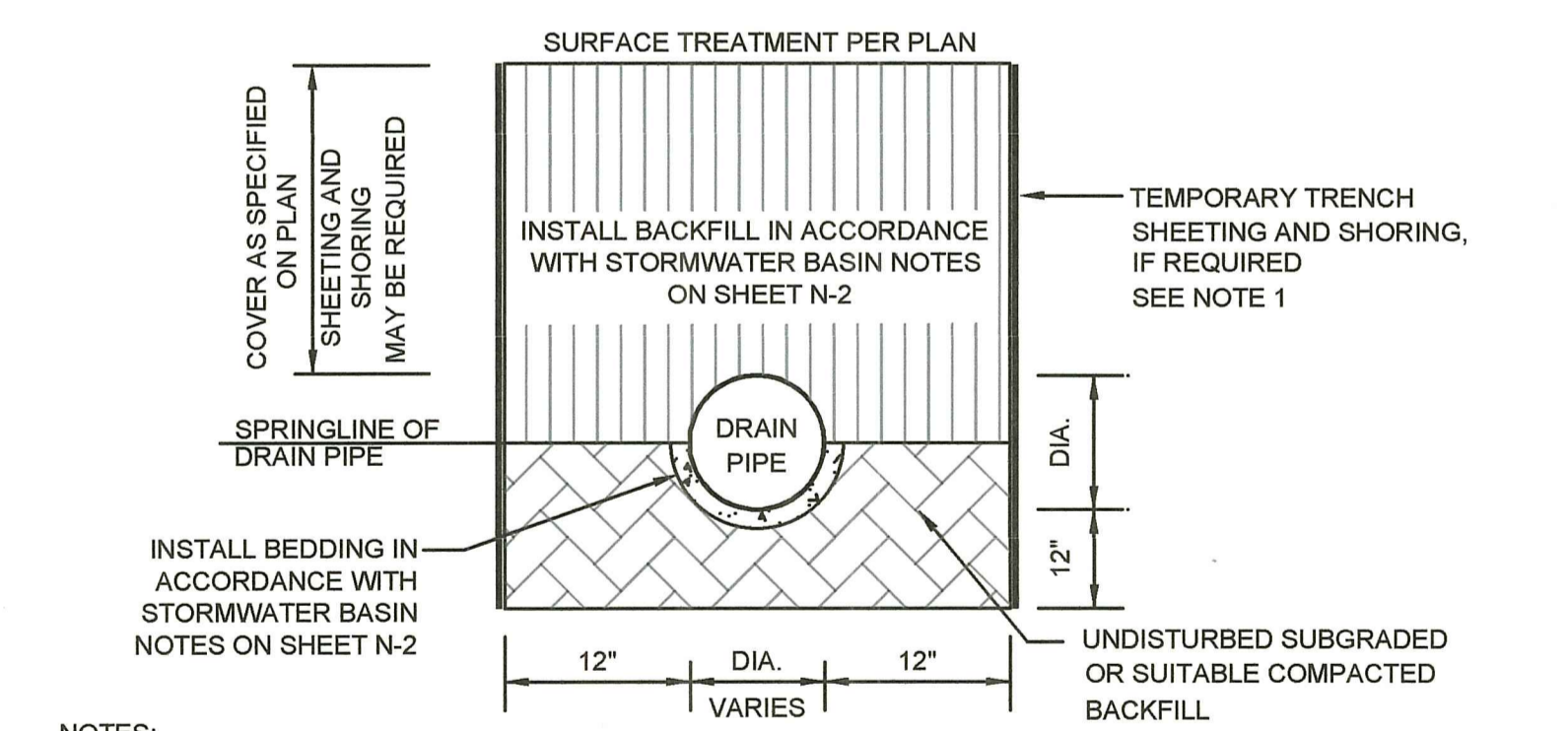
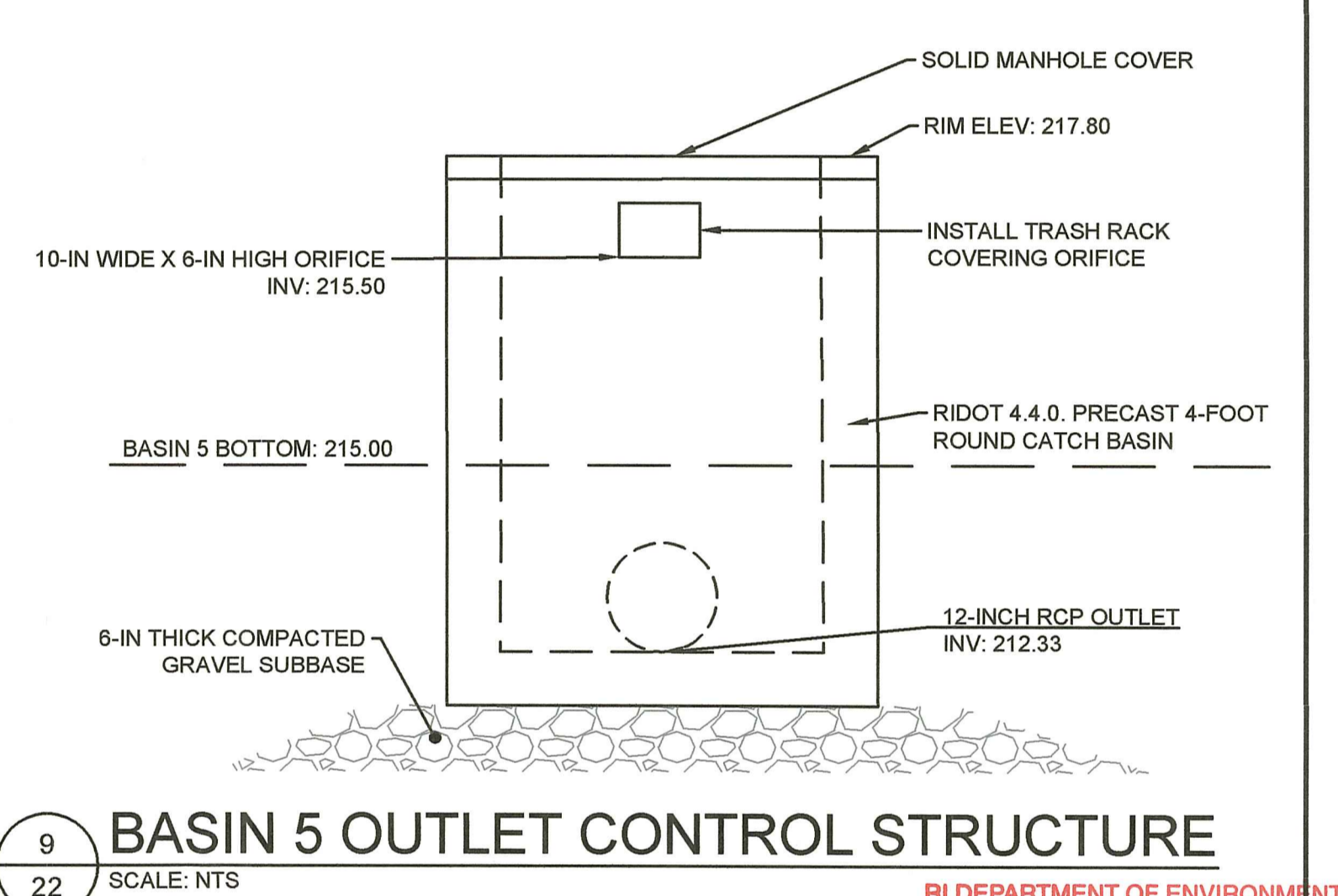
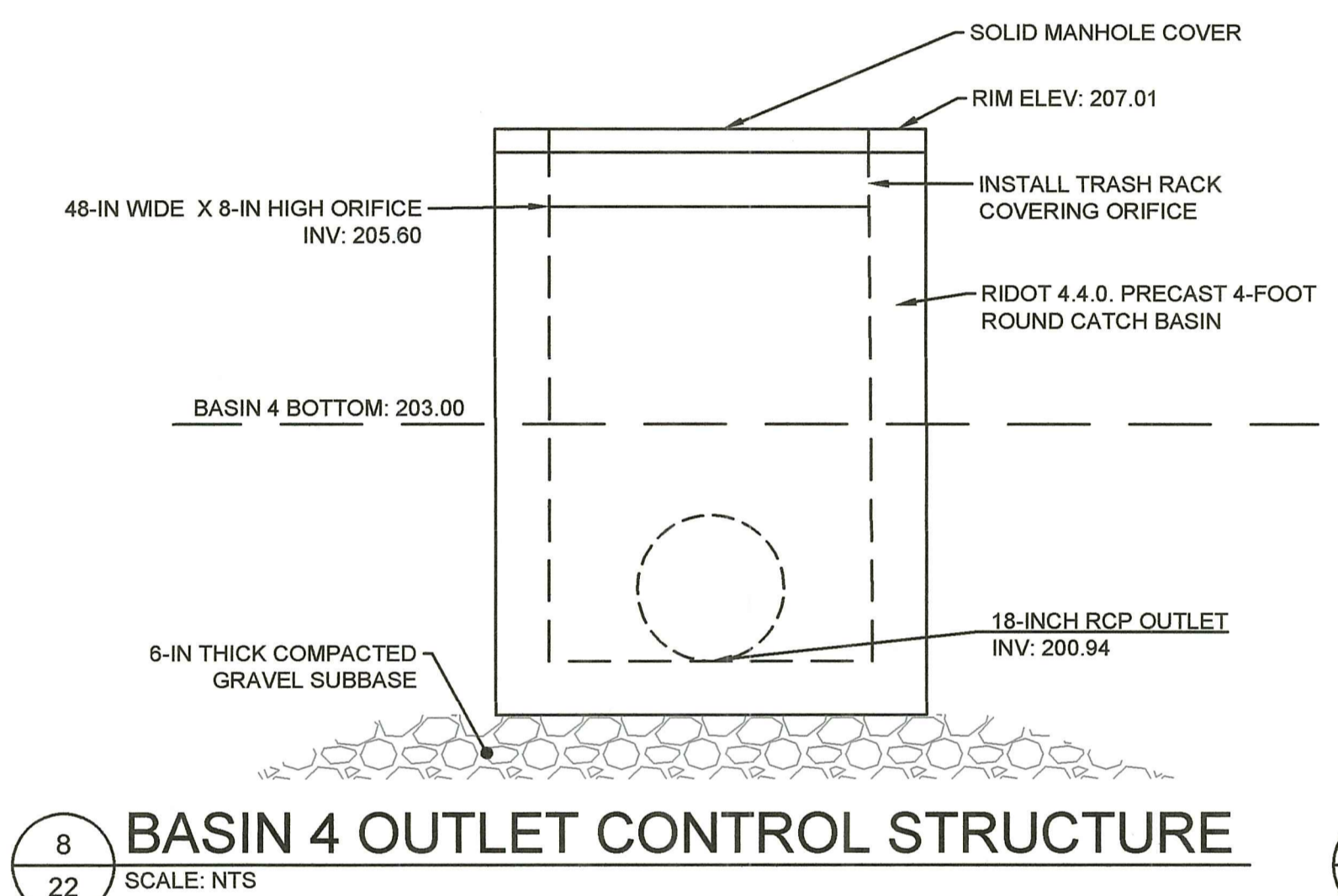
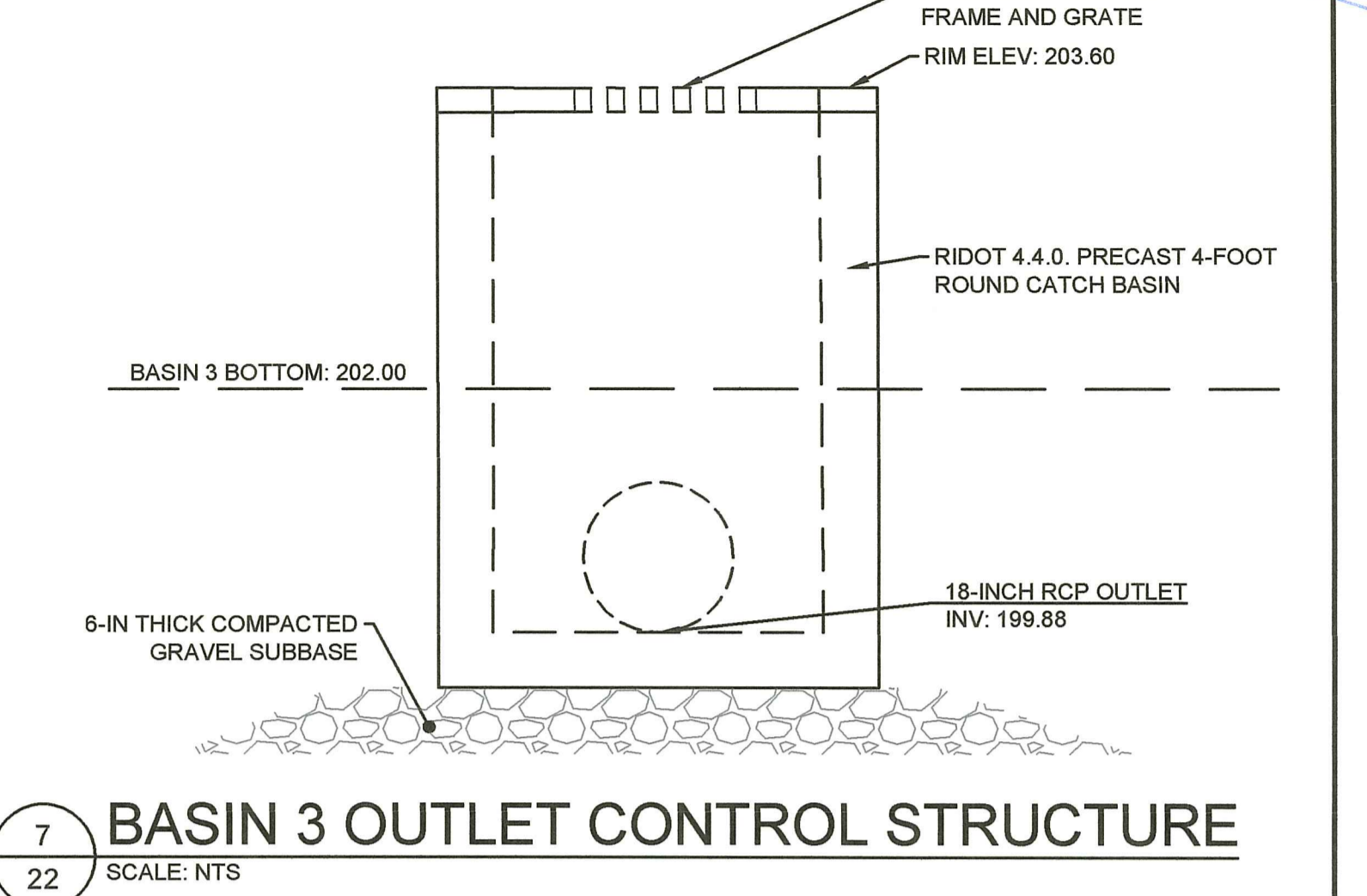
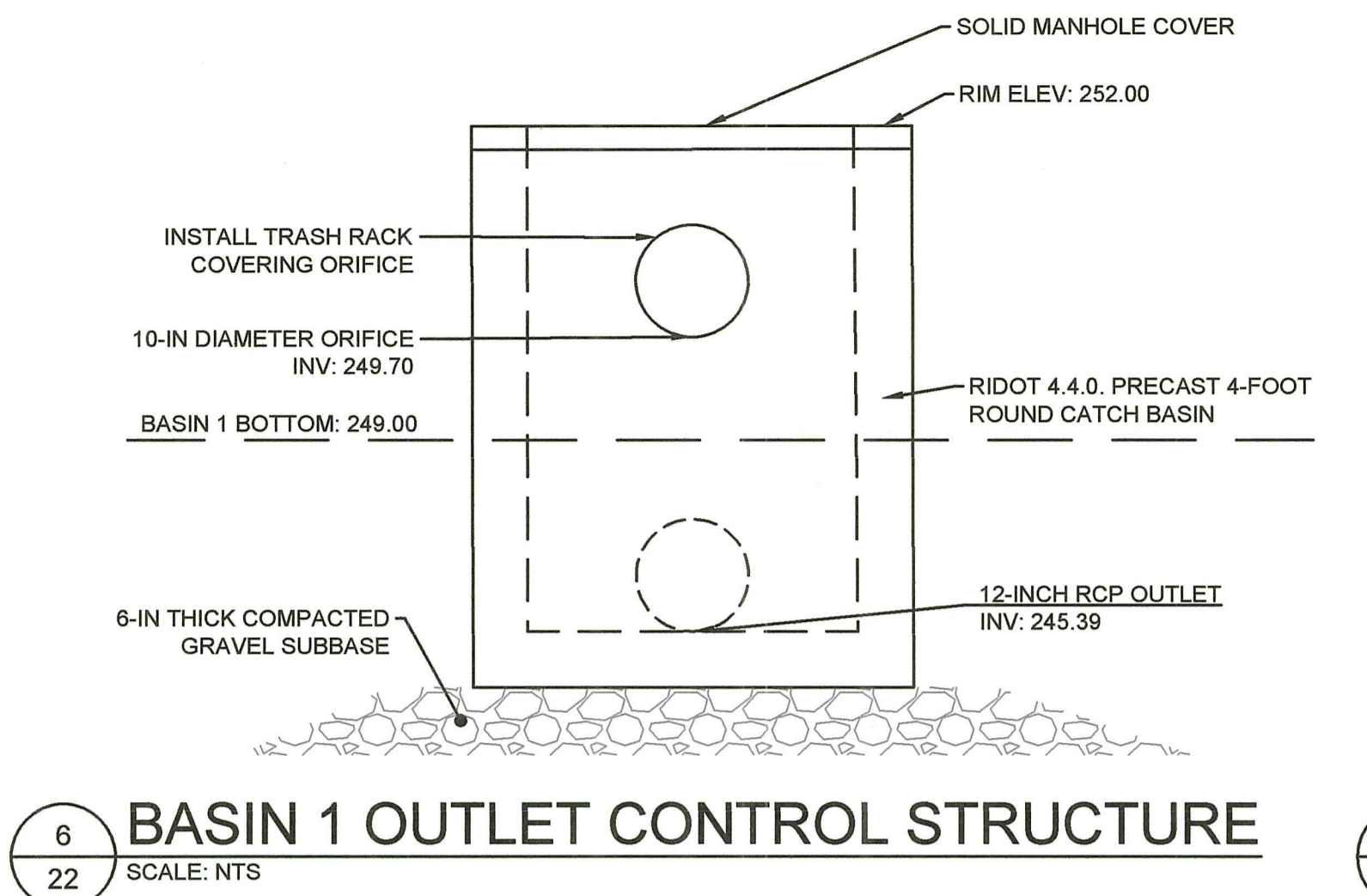
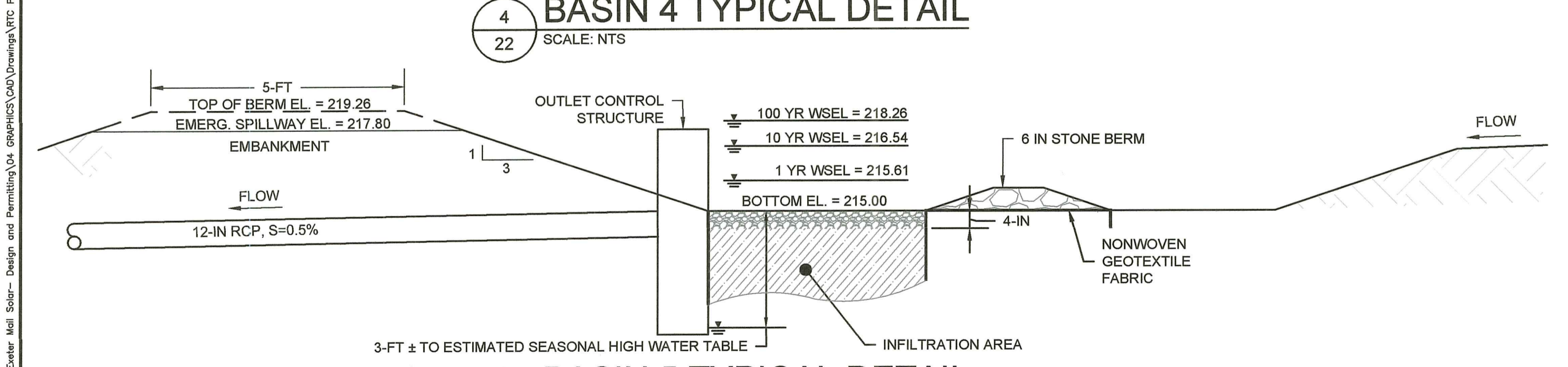
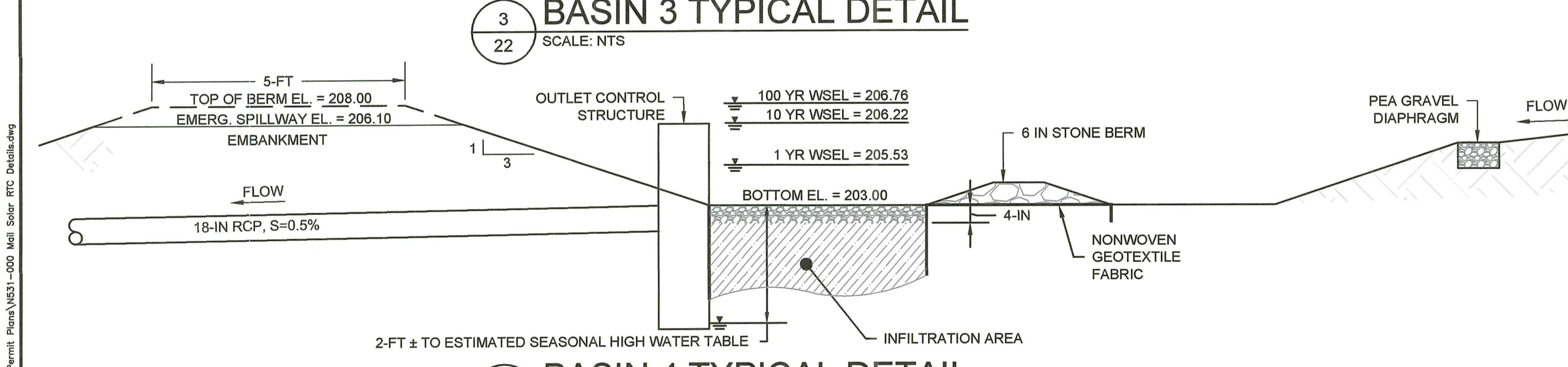
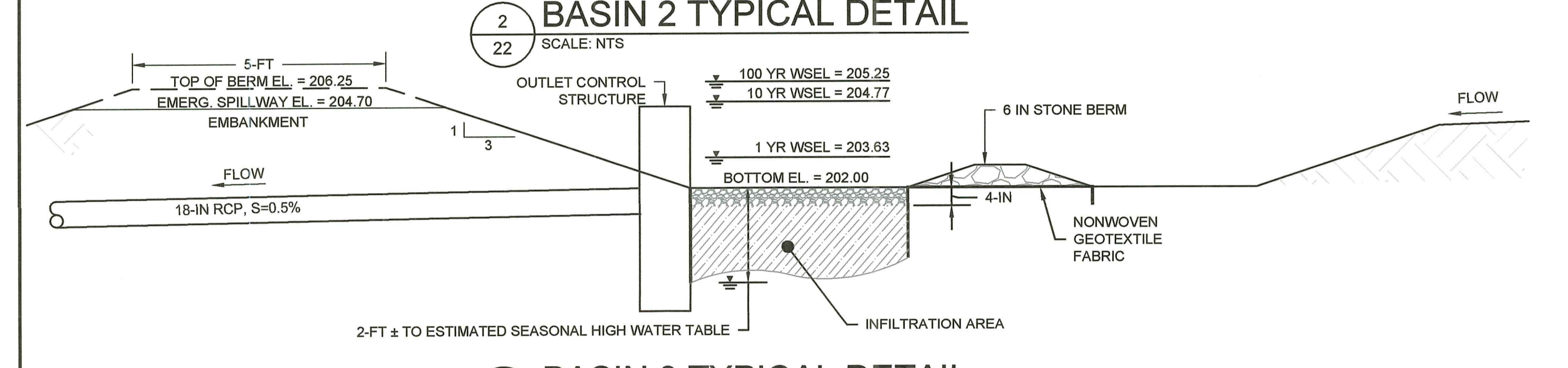
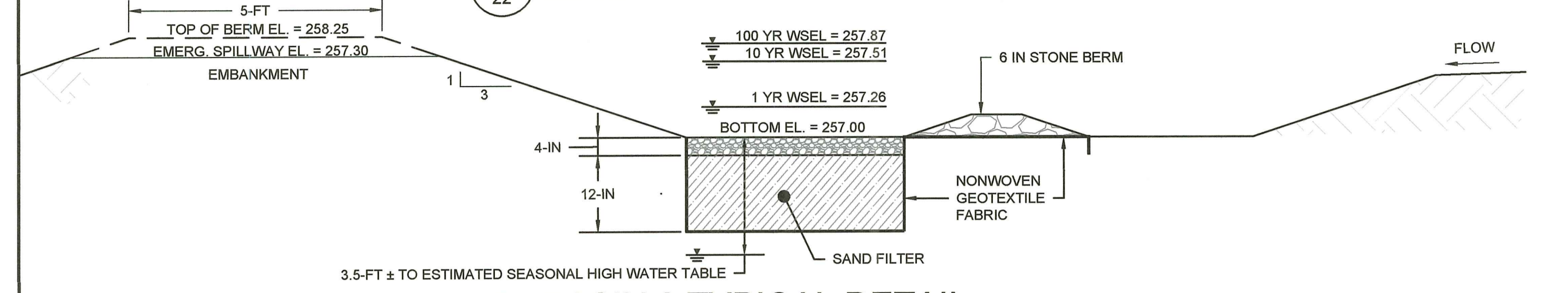
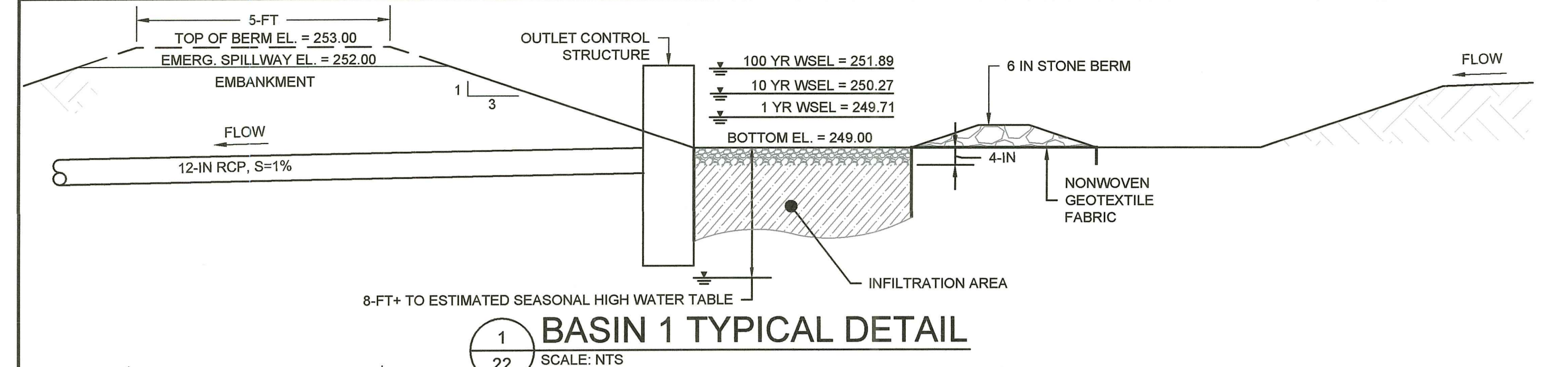
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No.	REVISION	DATE	DRAWN	DESIGN	CHK
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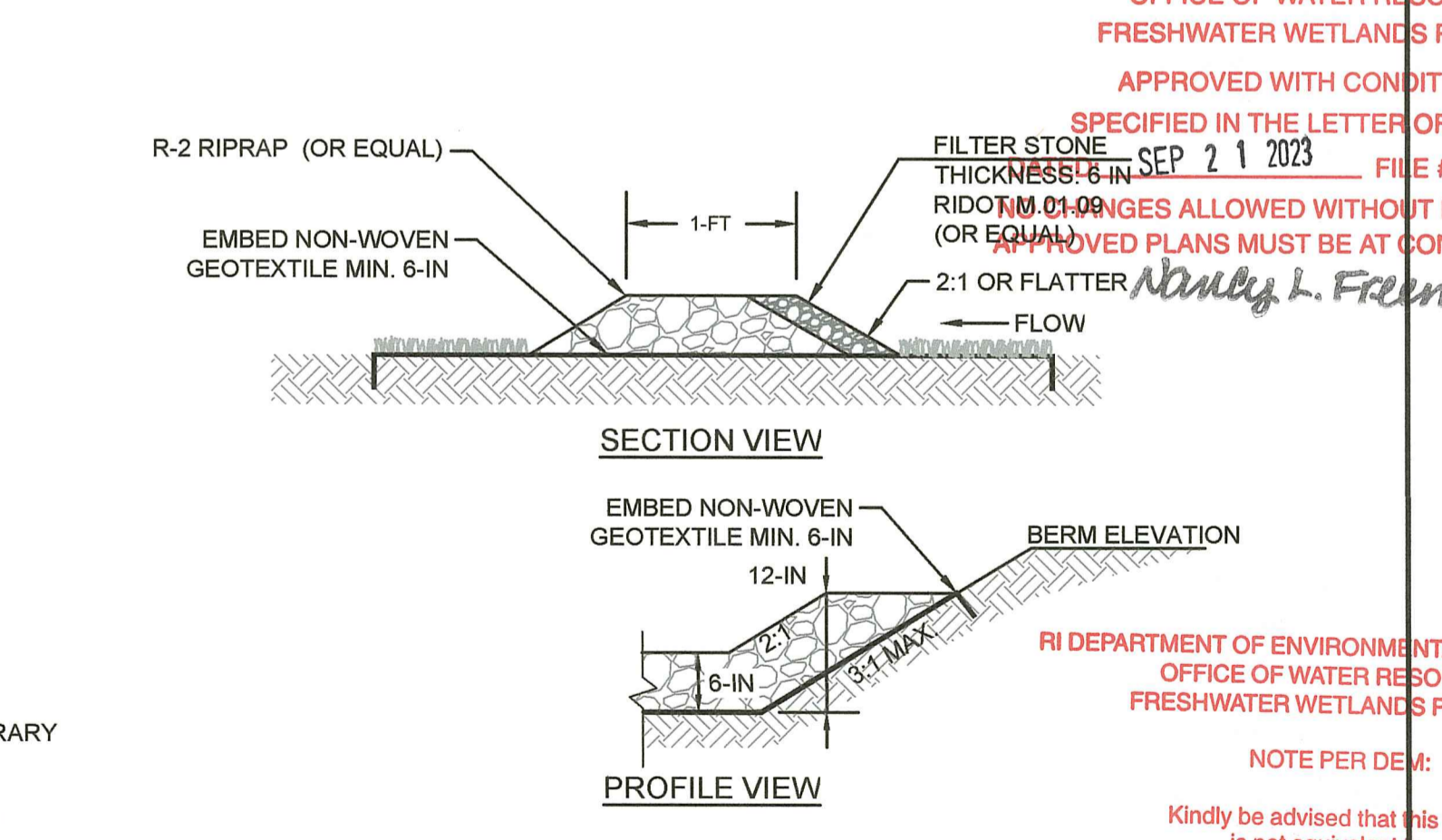
PERMITTING PLANS DETAILS
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D-4
 PROJECT NO: N531-000
 DATE OF ISSUE: 2/15/2023
 SHEET NO: 21 OF 46

RI Department of Environmental Management
 Office of Water Resources
 JUL 18 2023
 Office of Water Resources



- 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.



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 SEP 21 2023 FILE # 22-0425
 ORANGE ALLOWED WITHOUT PRIOR APPROVAL (OR SOLID) APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Walter J. Freeman

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EXETER MAIL SOLAR
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 148 MAIL ROAD
 EXETER, RI 02822

PAYSON R. WHITNEY, III
 No. 8551
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 Not Valid Without Signature

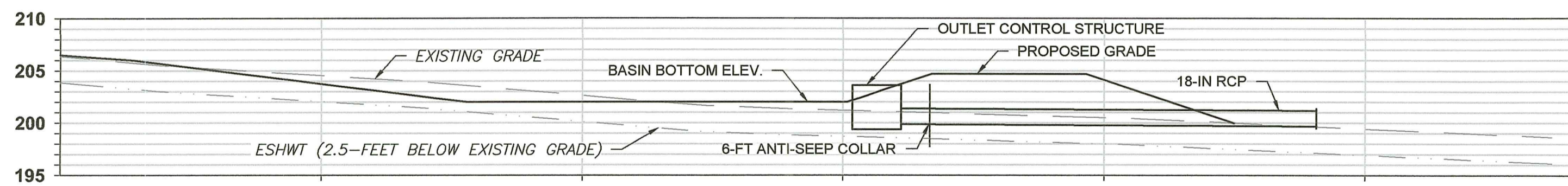
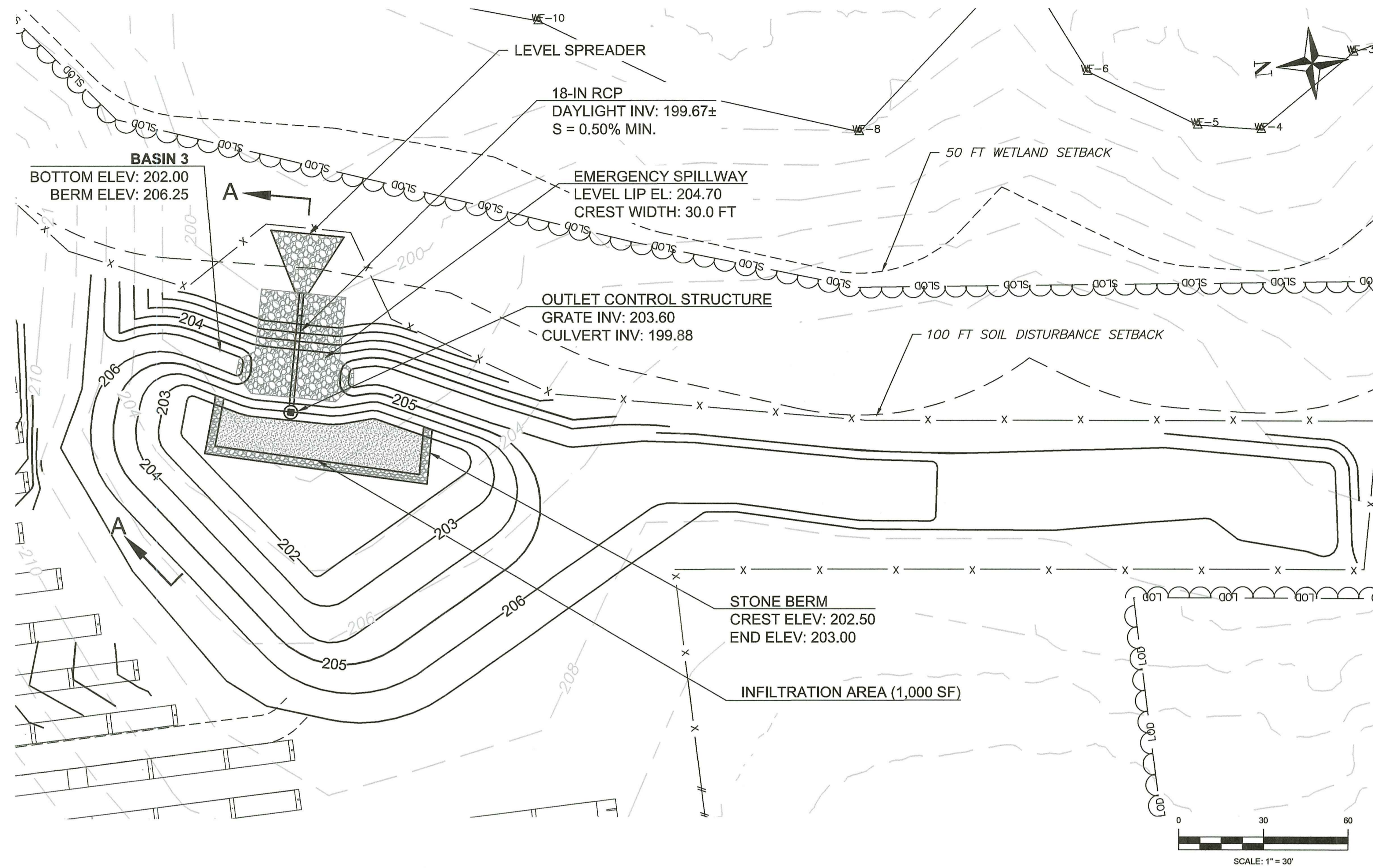
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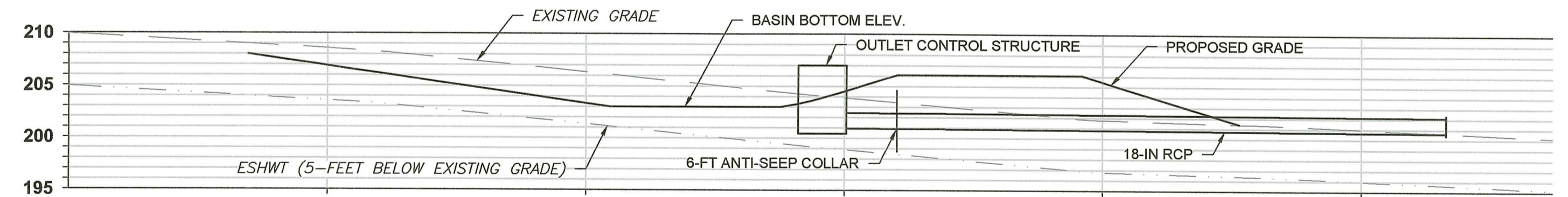
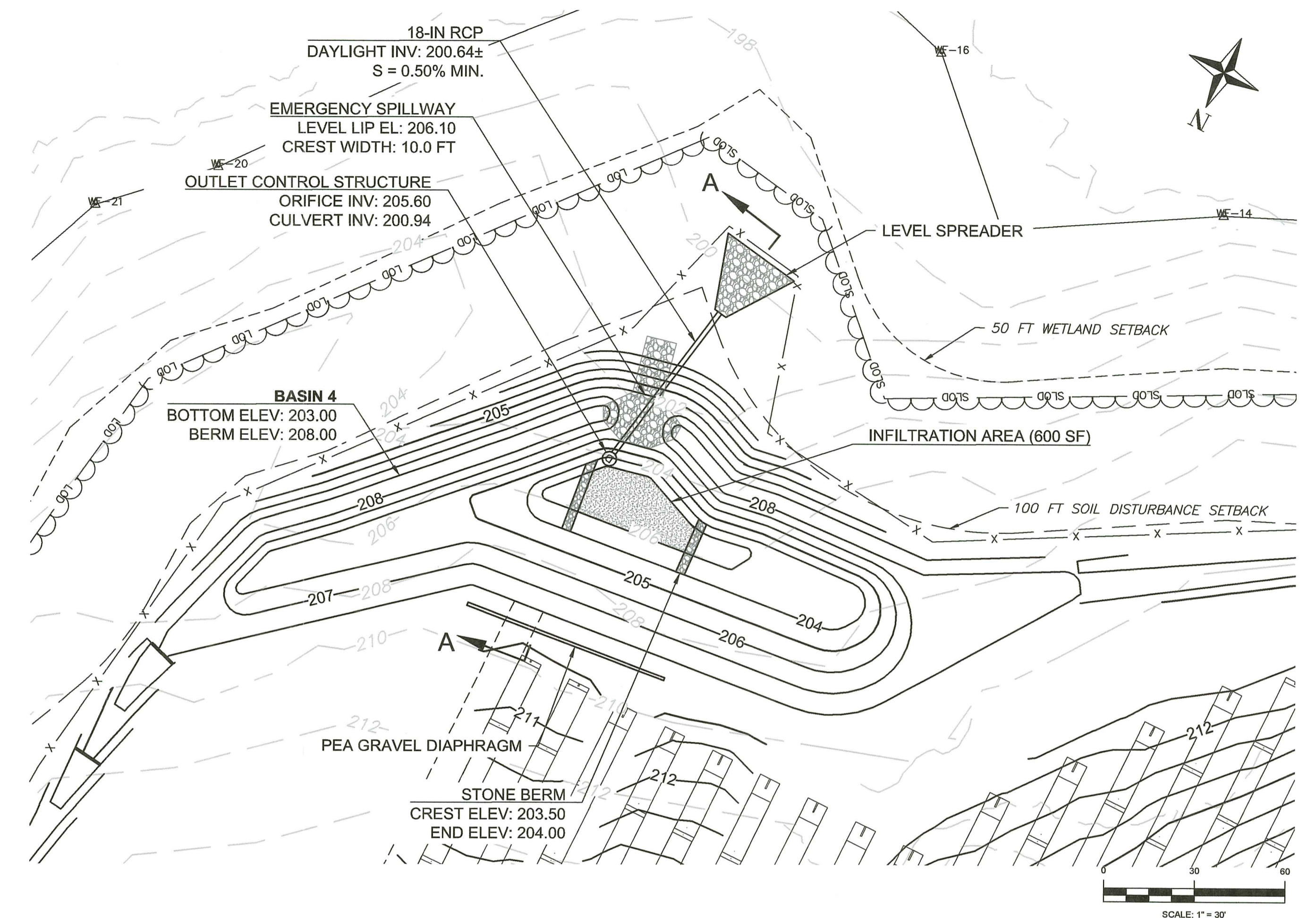
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 DATE OF ISSUE: 2/15/2023
 SHEET NO: 22 OF 45

DATE: Jul 12, 2023 - 2:10PM
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RI Department of Environmental Management
 JUL 18 2023
 Office of Water Resources



1
25 **BASIN 3 PLAN AND SECTION A**
 PLAN SCALE: 1"=30', SECTION HORIZONTAL AND VERTICAL SCALE: 1"=10'



2
25 **BASIN 4 PLAN AND SECTION A**
 PLAN SCALE: 1"=30', SECTION HORIZONTAL AND VERTICAL SCALE: 1"=10'

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 DATED: SEP 21 2023 FILE #: 22-0425
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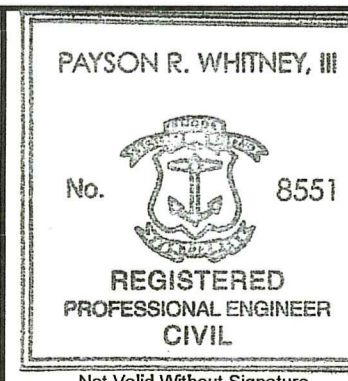
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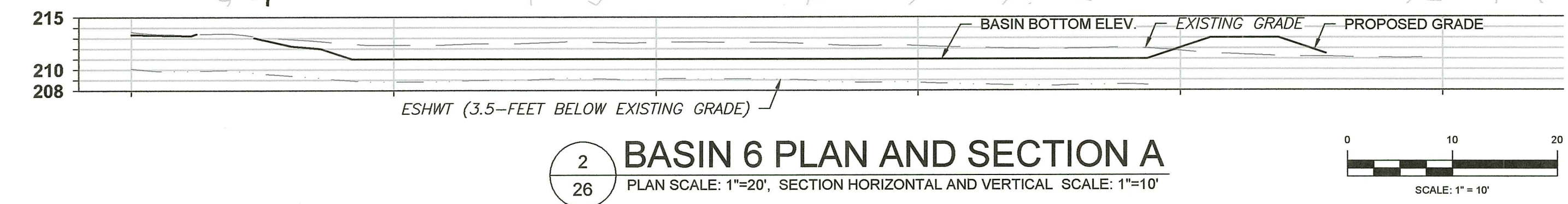
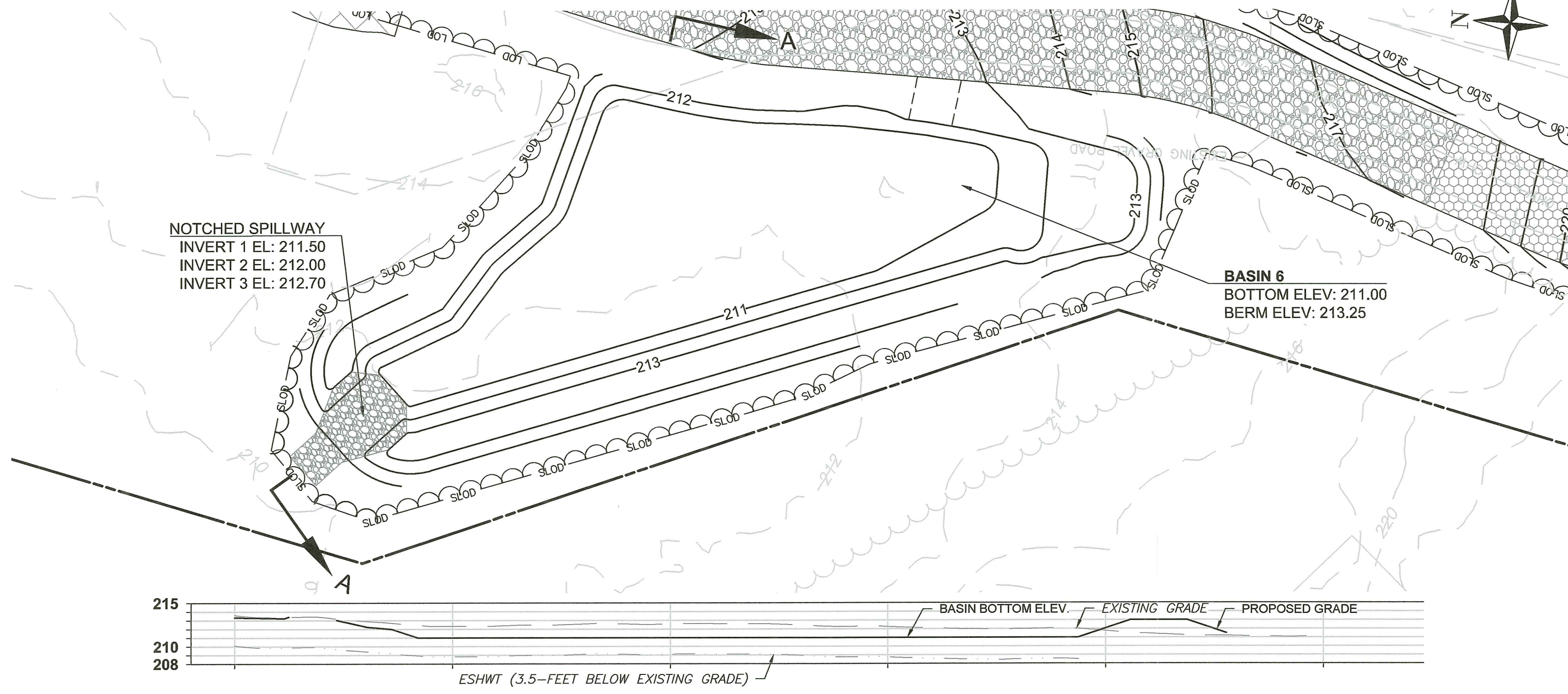
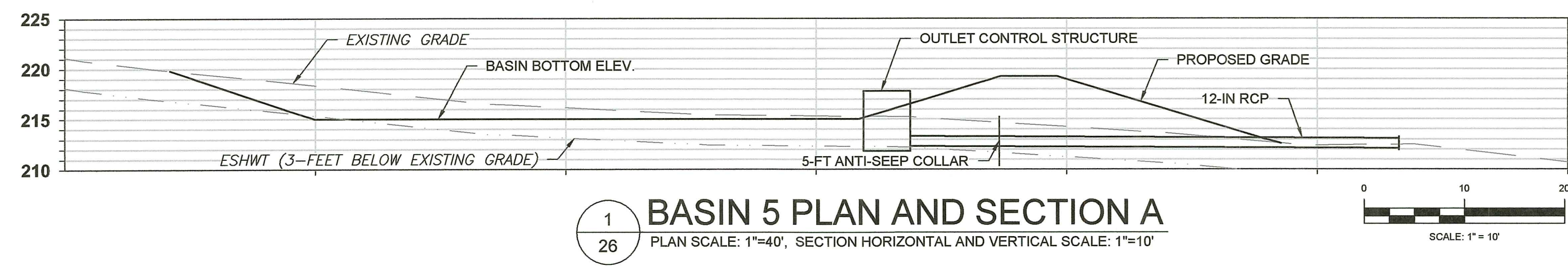
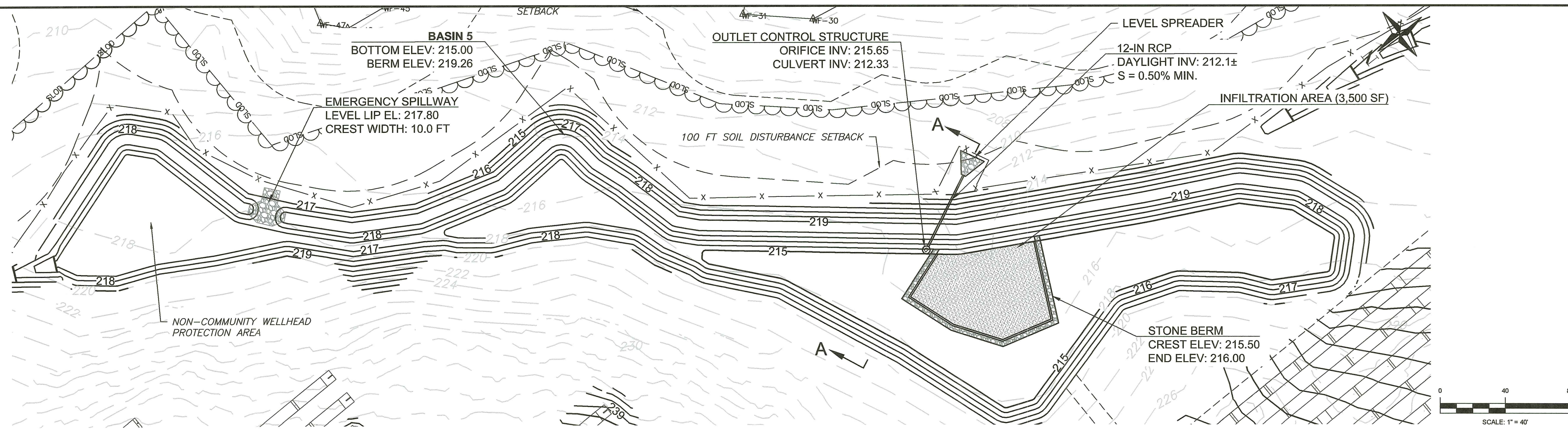
**PERMITTING PLANS
 BASIN SECTIONS**
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S-2

PROJECT NO: N631-000
 DATE OF ISSUE: 2/15/2023
 SHEET NO: 25 OF 45

DATE: Jul 13, 2023, 2:22PM; FILENAME: G:\Whitney\N631-000\Drawings\WRC Permit\Plan\N631-000 Mail Solar RITZ Basin Sections.dwg; Design and Permitting\04_06\N631-000 Mail Solar RITZ Basin Sections.dwg; Exeter Mail Solar; Design and Permitting\04_06\N631-000 Mail Solar RITZ Basin Sections.dwg; Copyright © TRC 2023

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PAYSON R. WHITNEY, III
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 REGISTERED PROFESSIONAL ENGINEER
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No.	REVISION	DATE	DRAWN	DESIGN	CHK
1	RESPONSE TO TECHNICAL COMMENTS	7/13/2023	GJR	JMG	JMG
DRAWN BY: GJR DESIGNED BY: JMG CHECKED BY: JMG					





PERMITTING PLANS
BASIN SECTIONS
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S-3
 PROJECT NO: NS31-000
 DATE OF ISSUE: 2/15/2023
 SHEET NO: 26 OF 46

DATE: Jul 13, 2023 - 2:37PM
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LEGEND

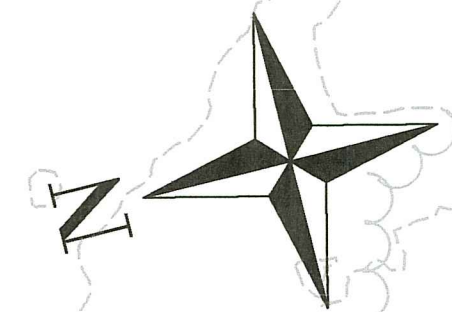
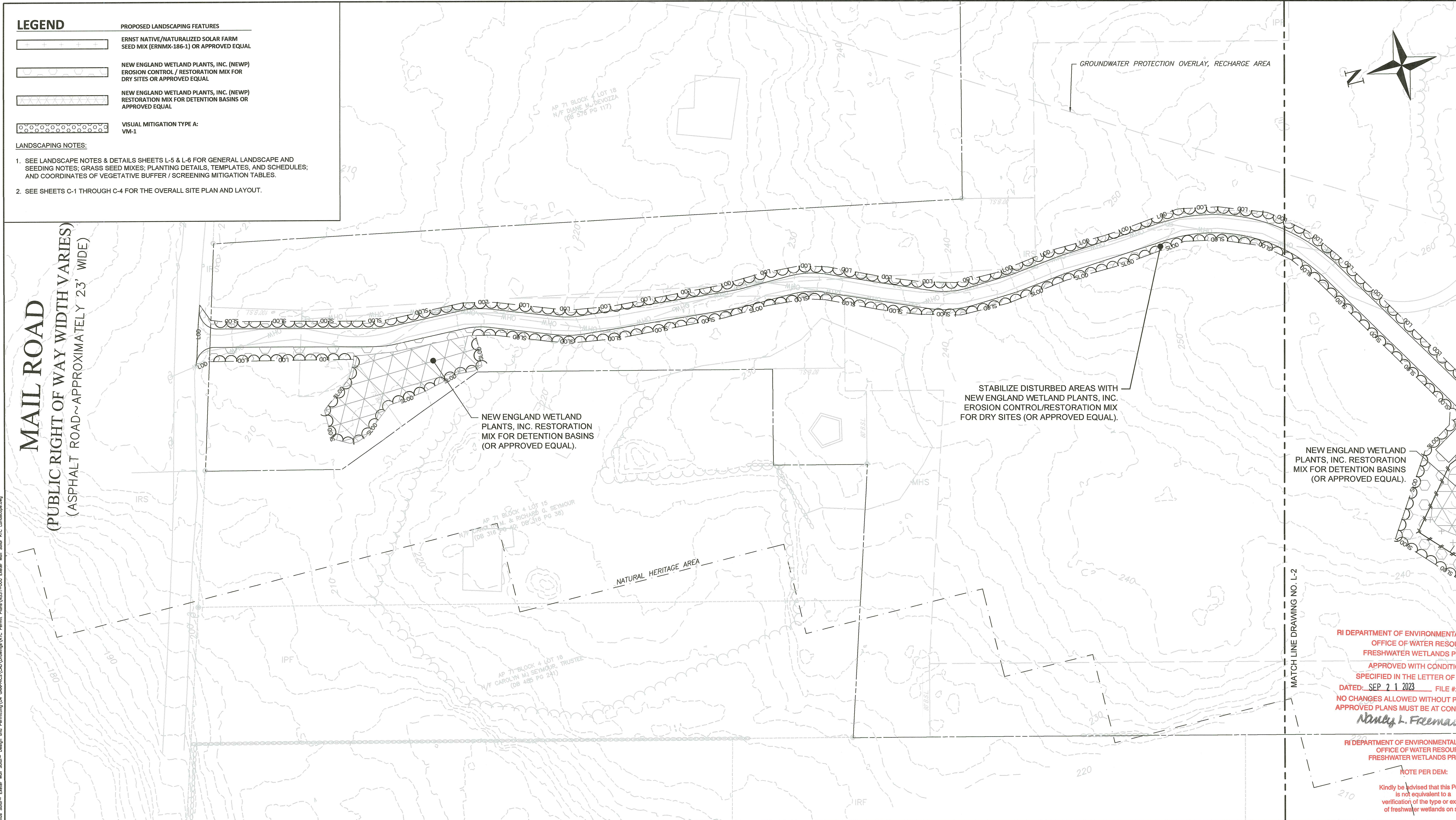
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-  ERNST NATIVE/NATURALIZED SOLAR FARM SEED MIX (ERNMX-186-1) OR APPROVED EQUAL
-  NEW ENGLAND WETLAND PLANTS, INC. (NEWP) EROSION CONTROL / RESTORATION MIX FOR DRY SITES OR APPROVED EQUAL
-  NEW ENGLAND WETLAND PLANTS, INC. (NEWP) RESTORATION MIX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

LANDSCAPING NOTES:

1. SEE LANDSCAPE NOTES & DETAILS SHEETS L-5 & L-6 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-1 THROUGH C-4 FOR THE OVERALL SITE PLAN AND LAYOUT.

MAIL ROAD
 (PUBLIC RIGHT OF WAY WIDTH VARIES)
 (ASPHALT ROAD ~ APPROXIMATELY 23' WIDE)



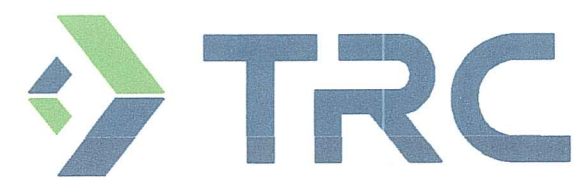
MATCH LINE DRAWING NO. L-2

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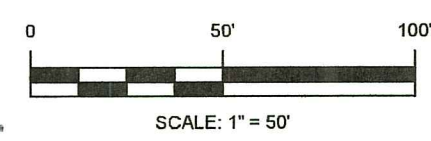
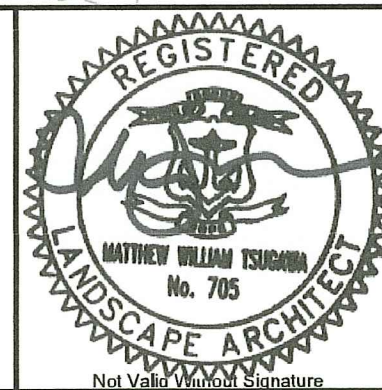
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 396 SPRINGFIELD AVENUE, 2ND FLOOR
 SUMMIT, NJ 07901

EXETER MAIL SOLAR
 AP 71 BLOCK 4 LOT 14
 148 MAIL ROAD
 EXETER, RI 02822



No.	REVISION	DATE	DRAWN	DESIGN	CHK

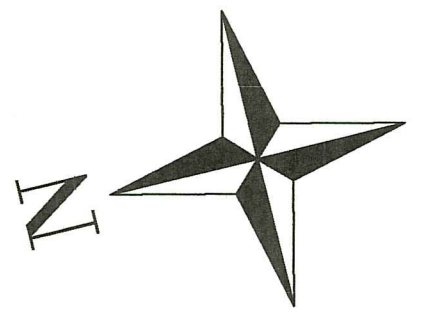
DRAWN BY: AHB DESIGNED BY: JMG CHECKED BY: JMG

**PERMITTING PLANS
 LANDSCAPE PLAN**

FOR PERMITTING ONLY

DRAWING NO:
L-1

PROJECT NO: NS31-000
 DATE OF ISSUE: 2/9/2023
 SHEET NO: 27 OF 32



FOREST CONDITION ASSESSMENT SUMMARY

DR. JAMES H. BROWN, JR., A CONSULTING FORESTER, PREPARED A FORESTRY MANAGEMENT PLAN FOR THE PROPERTY IN 2006 AND UPDATED THE PLAN IN 2016. HE ALSO CONDUCTED A SITE WALK OF THE PROPERTY DURING DECEMBER OF 2018 TO EVALUATE THE CONDITION OF VEGETATION AND HIS FINDINGS FROM THE SITE WALK INCLUDED:

- THE WOODLOT IS A MIX OF OAK (MIXED SPECIES) AND WHITE PINE.
- THE PRESENT OVERSTORY CANOPY TREES ARE 70 TO 90 YEARS OLD AND CONSIST PRIMARILY OF SCARLET AND BLACK OAK, WITH SCATTERED WHITE PINE.
- THERE IS EVIDENCE OF PAST FIRES AND CUTTING.
- MOST OF THE OAKS ARE OF SPROUT ORIGIN, ORIGINATING FROM THE STUMPS OF TREES THAT WERE CUT OR KILLED IN WILDFIRES. SPROUT ORIGIN OAKS ARE PRONE TO DECAY AND ARE SHORTER-LIVED THAN OAK TREES OF SEED ORIGIN. MOST OF THE OAKS IN THE PROJECT AREA ARE OLD AND OF LOW QUALITY.
- THE RECENT GYPSY MOTH INFESTATION AND DRY GROWING SEASONS HAVE TAKEN A TOLL ON THE OAKS. MUCH OF THE PROJECT AREA FEATURES MORTALITY RANGING FROM 50 TO 80 PERCENT OF TOTAL STOCKING WITH ADDITIONAL TREES LIKELY TO DIE IN THE NEXT SEVERAL YEARS DUE TO THE ADVANCED AGE OF THE SPROUT ORIGIN TREES.
- STANDING DEAD OAKS ARE BEGINNING TO BREAK UP WITH LIMBS AND TREE TOPS LITTERING THE FOREST FLOOR, POSING A FIRE HAZARD IN SOME AREAS. THIS CONTINUED DEGRADATION OF THE DEAD OAKS WILL CONTINUE.



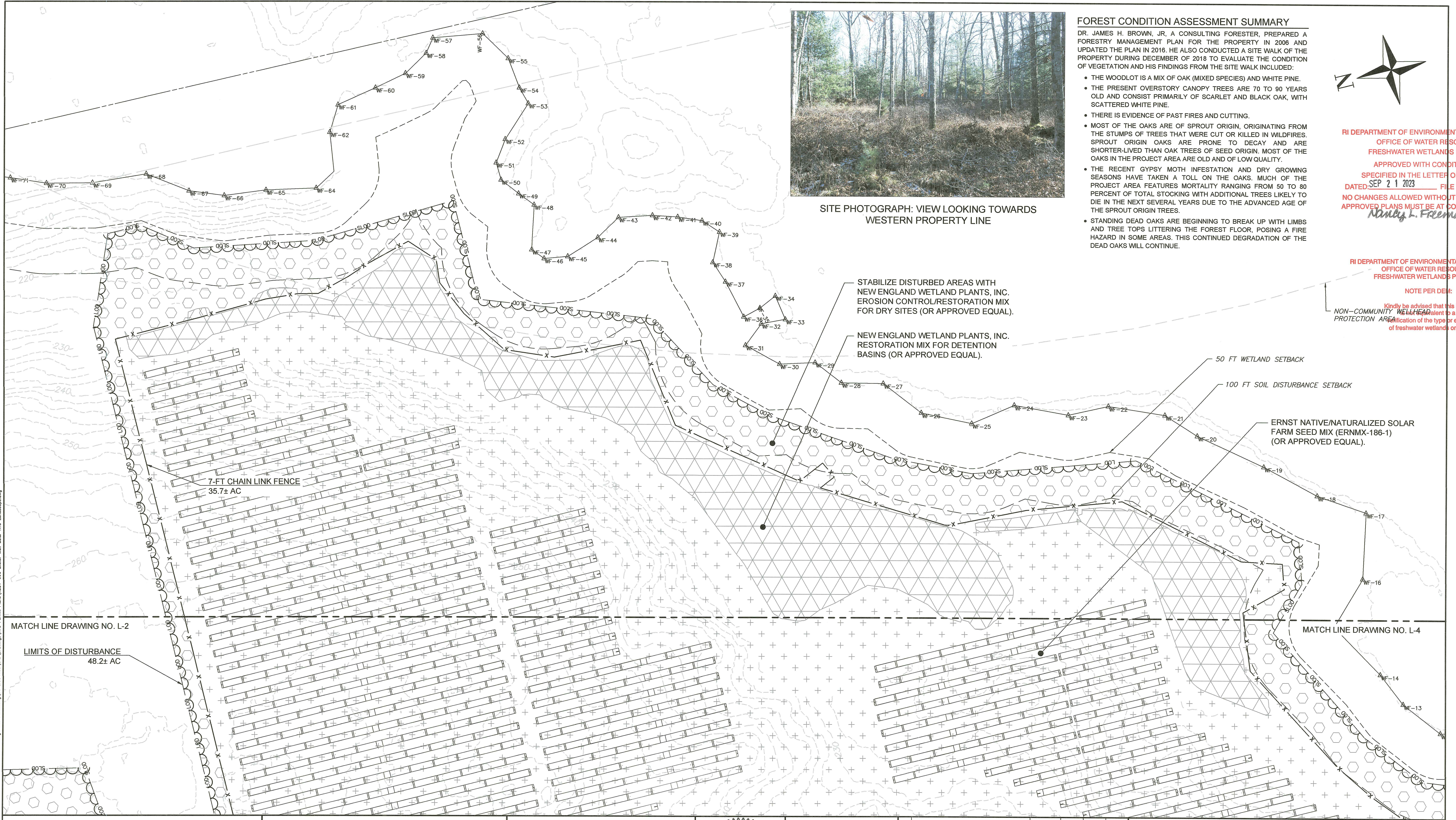
SITE PHOTOGRAPH: VIEW LOOKING TOWARDS WESTERN PROPERTY LINE

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED SEP 21 2023 FILE #: 22-0425
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Only L. Freeman

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

NOTE PER DEED:

Kindly be advised that this Permit is valid only for the purposes stated in the application. Any change in the type or extent of freshwater wetlands on site is subject to the approval of the Office of Water Resources.



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

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

404 Wyman Street, Suite 375
 Waltham, Massachusetts 02451
 p 781.419.7896
 www.trccompanies.com

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

EXETER MAIL SOLAR
 AP 71 BLOCK 4 LOT 14
 148 MAIL ROAD
 EXETER, RI 02822

No.	REVISION	DATE	DRAWN	DESIGN	CHK

DRAWN BY: AHB DESIGNED BY: JMG CHECKED BY: JMG

**PERMITTING PLANS
 LANDSCAPE PLAN**

FOR PERMITTING ONLY

DRAWING NO:
L-3

PROJECT NO: NS31-000
 DATE OF ISSUE: 2/9/2023
 SHEET NO: 29 OF 32

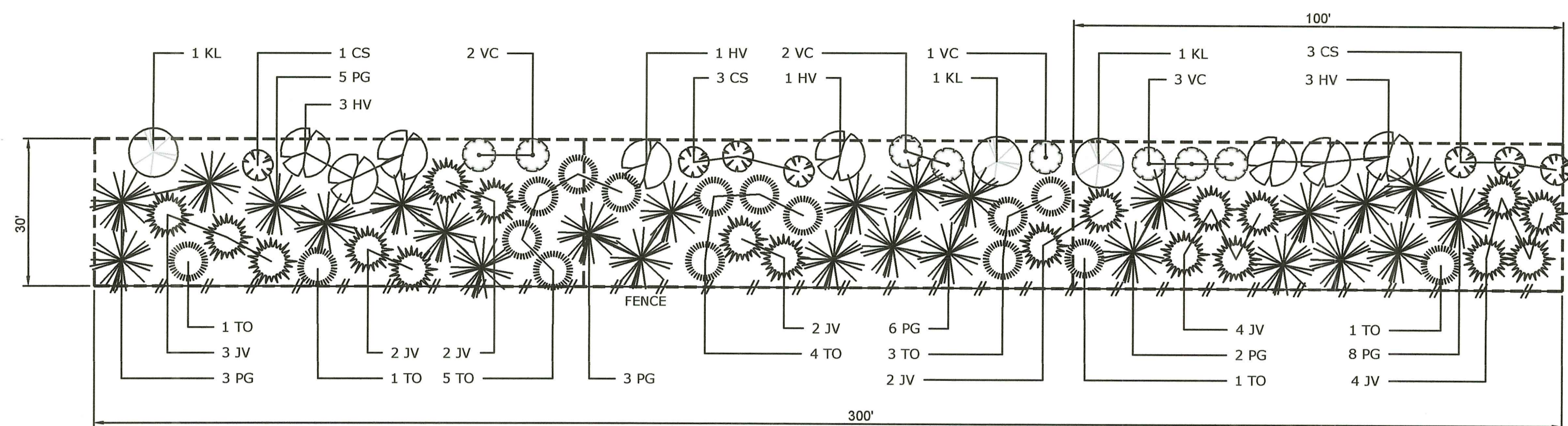
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RI Department of Environmental Management
 JUL 18 2023
 Office of Water Resources

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
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Nancy L. Freeman

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

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



N.T.S.
VISUAL MITIGATION PLANTING TEMPLATE - TYPE A

LEGEND VISUAL MITIGATION PLANTING TEMPLATE - TYPE A
 LANDSCAPE PLANTING SCHEDULE (30' WIDE VISUAL BUFFER/SCREENING EFFORT)

DECIDUOUS AND EVERGREEN TREES

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
JV	JUNIPERUS VIRGINIANA EASTERN RED CEDAR	19	5'-6" HT.	B&B	40'-50' HT.
PG	PICEA GLAUCA WHITE SPRUCE	26	5'-6" HT.	B&B	40'-60' HT.
TO	THUJA OCCIDENTALIS NORTHERN WHITE CEDAR	16	5'-6" HT.	B&B	40'-50' HT.

SHRUBS

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
CS	CORNUS SERICEA RED TWIG DOGWOOD	7	36"-42" HT.	#3/6 CONT.	7'-9" HT.
HV	HAMAMELIS VIRGINIANA COMMON WITCH HAZEL	8	3'-4" HT.	B&B	15'-25" HT.
KL	KALMIA LATIFOLIA MOUNTAIN LAUREL	3	36"-42" HT.	B&B	12'-15" HT.
VC	VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY	8	24"-30" HT.	#3/6 CONT.	6'-12" HT.

TEMPLATE SCHEDULE

LEGEND VISUAL MITIGATION PLANTING TYPE "A"

- SEE GENERAL LANDSCAPE AND SEEDING NOTES ON DRAWING L-5 FOR ADDITIONAL PLANTING REQUIREMENTS AND SEED MIXTURES.
- THE 30-FOOT-WIDE PROPOSED BUFFER TYPE "A" WILL BE A MIX OF NATIVE EVERGREEN TREES, DECIDUOUS TREES AND SHRUBS ARRANGED TO FORM A NATURAL APPEARANCE AND CONTINUOUS SOLID SCREEN. SEE THE PLANTING TEMPLATE FOR ARRANGEMENTS OF PLANTS AND THE PLANT SCHEDULES FOR TYPE AND SIZE.

LEGEND - VM1 PLANTING TEMPLATE TYPE A
 LANDSCAPE PLANTING SCHEDULE TOTAL MITIGATION LENGTH = 2,740 LF

DECIDUOUS AND EVERGREEN TREES

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
JV	JUNIPERUS VIRGINIANA EASTERN RED CEDAR	174	5'-6" HT.	B&B	40'-50' HT.
PG	PICEA GLAUCA WHITE SPRUCE	238	5'-6" HT.	B&B	40'-60' HT.
TO	THUJA OCCIDENTALIS NORTHERN WHITE CEDAR	145	5'-6" HT.	B&B	40'-50' HT.

SHRUBS

SYMBOL	BOTANICAL NAME/ COMMON PLANT NAME	QUANTITY	SIZE	ROOT	MATURE HEIGHT
CS	CORNUS SERICEA RED TWIG DOGWOOD	64	36"-42" HT.	#3/6 CONT.	7'-9" HT.
HV	HAMAMELIS VIRGINIANA COMMON WITCH HAZEL	72	3'-4" HT.	B&B	15'-25" HT.
KL	KALMIA LATIFOLIA MOUNTAIN LAUREL	28	36"-42" HT.	B&B	12'-15" HT.
VC	VACCINIUM CORYMBOSUM HIGHBUSH BLUEBERRY	72	24"-30" HT.	#3/6 CONT.	6'-12" HT.

PLANT SCHEDULE TOTALS

VM1 - VEGETATIVE BUFFER / SCREEN MITIGATION TABLE

NUMBER	MITIGATION TYPE	LENGTH	LINE/CHORD DIRECTION	START EASTING, NORTHING	END EASTING, NORTHING
L1	TYPE A	286	N87° 53' 40.33"W	E:310894.6644, N:161249.5365	E:310608.4236, N:161260.0598
L2	TYPE A	290	N00° 00' 00.00"E	E:310608.4236, N:161260.0598	E:310608.4236, N:161549.8834
L3	TYPE A	992	N13° 45' 28.28"E	E:310608.4236, N:161549.8834	E:310844.4426, N:162513.8410
L4	TYPE A	197	N23° 58' 37.57"E	E:310844.4426, N:162513.8410	E:310924.4137, N:162693.6524
L5	TYPE A	55	N24° 57' 37.43"W	E:310924.4137, N:162693.6524	E:310901.0341, N:162743.8807
L6	TYPE A	431	N13° 46' 11.99"E	E:310901.0341, N:162743.8807	E:311003.5073, N:163162.0219
L7	TYPE A	158	N21° 26' 19.59"E	E:311003.5073, N:163162.0219	E:311061.2678, N:163309.1162
L8	TYPE A	38	N89° 09' 02.33"E	E:311061.2678, N:163309.1162	E:311098.9308, N:163309.6746
L9	TYPE A	261	N01° 04' 23.57"E	E:311098.9308, N:163309.6746	E:311103.8265, N:163571.0101
L10	TYPE A	32	N10° 47' 29.40"E	E:311103.8265, N:163571.0101	E:311109.7823, N:163602.2564

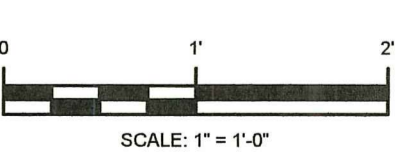
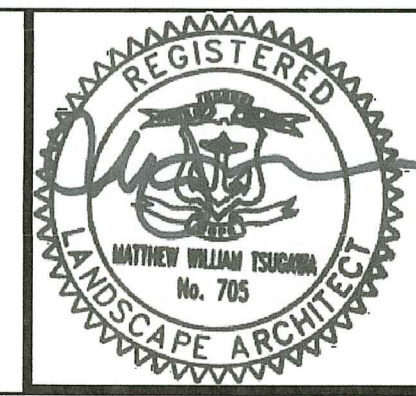
VISUAL MITIGATION (VM) COORDINATE TABLE

DATE: Feb 09, 2023 10:06:00 AM FILENAME: G:\Waltham\03\031-000\Drawings\031-000\031-000_Landscape_Details.dwg

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 MAIL, LLC
 396 SPRINGFIELD AVENUE, 2ND FLOOR
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EXETER MAIL SOLAR
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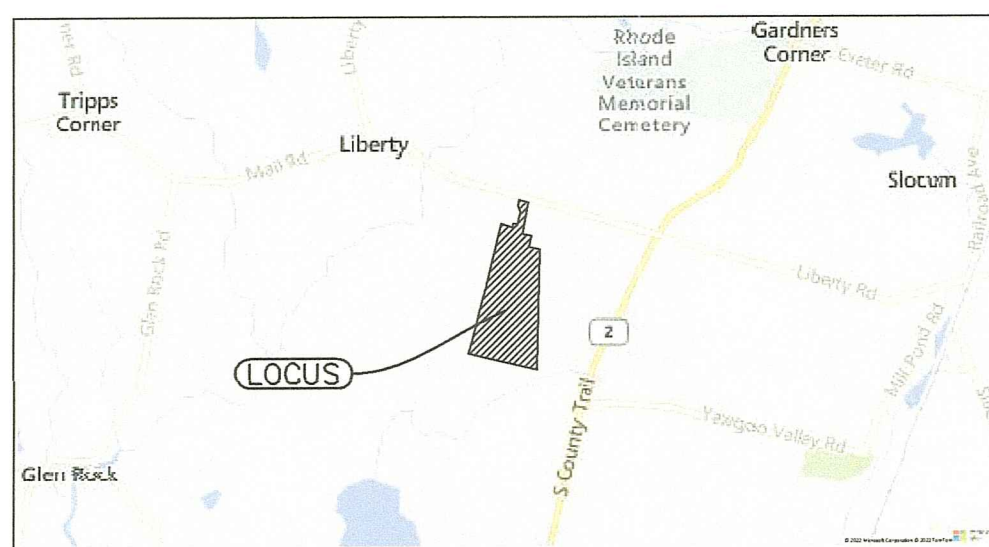


No.	REVISION	DATE	DRAWN	DESIGN	CHK

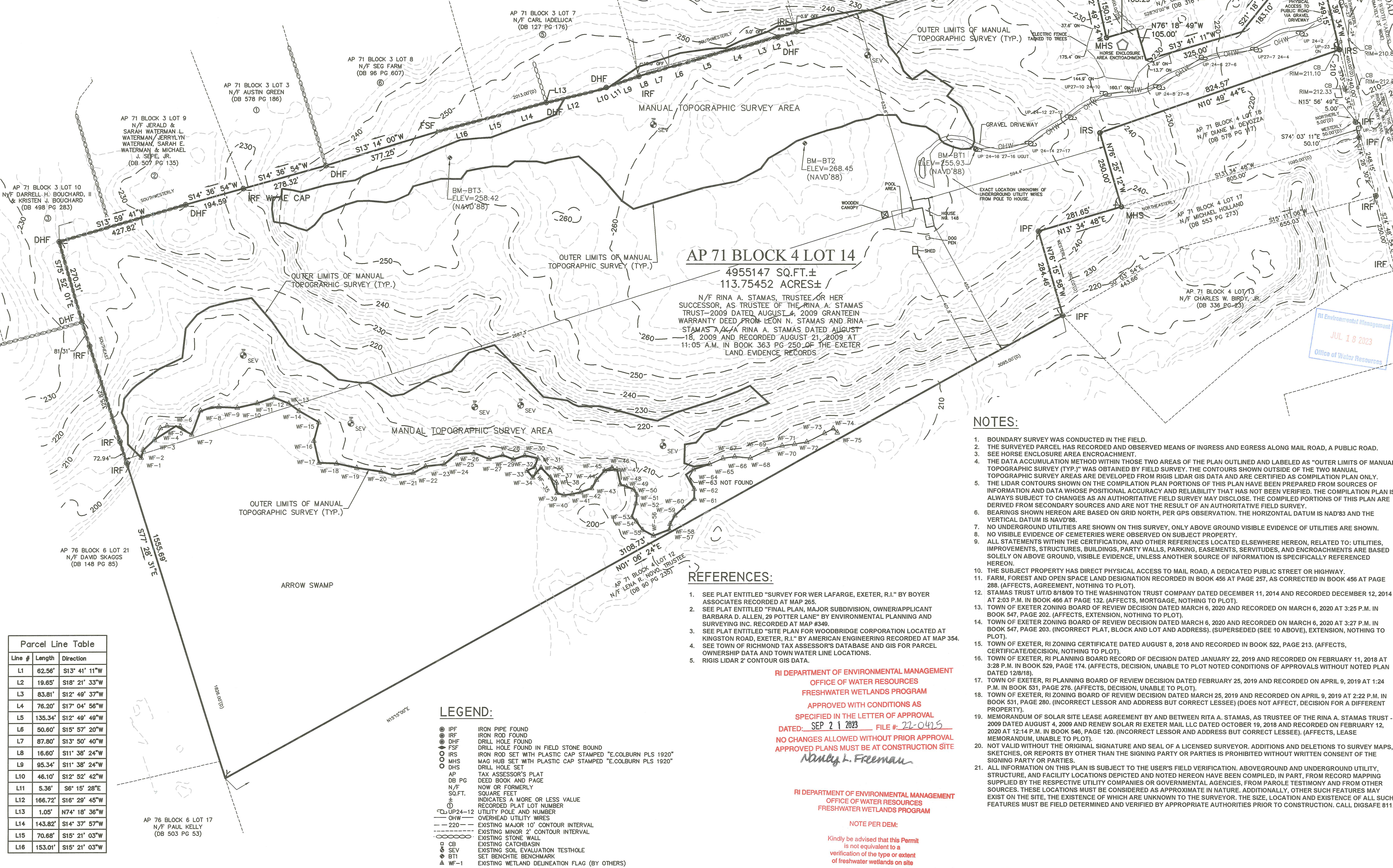
DRAWN BY: AHB DESIGNED BY: JMG CHECKED BY: JMG

PERMITTING PLANS
LANDSCAPE NOTES AND DETAILS
FOR PERMITTING ONLY

DRAWING NO:
L-6
 PROJECT NO: NS31-000
 DATE OF ISSUE: 2/9/2023
 SHEET NO: 32 OF 32



VICINITY MAP
SCALE: 1"=5000'



AP 71 BLOCK 4 LOT 14
 4955147 SQ.FT.±
 113.75452 ACRES±
 N/F RINA A. STAMAS, TRUSTEE OR HER SUCCESSOR, AS TRUSTEE OF THE RINA A. STAMAS TRUST-2009 DATED AUGUST 4, 2009 GRANTEEIN WARRANTY DEED FROM LEON N. STAMAS AND RINA STAMAS AKA RINA A. STAMAS DATED AUGUST 18, 2009 AND RECORDED AUGUST 21, 2009 AT 11:05 A.M. IN BOOK 363 PG 250 OF THE EXETER LAND EVIDENCE RECORDS

Line #	Length	Direction
L1	62.56'	S13° 41' 11" W
L2	19.85'	S18° 21' 33" W
L3	83.81'	S12° 49' 37" W
L4	76.20'	S17° 04' 56" W
L5	135.34'	S12° 49' 49" W
L6	50.60'	S15° 57' 20" W
L7	87.80'	S13° 50' 40" W
L8	16.60'	S11° 38' 24" W
L9	95.34'	S11° 38' 24" W
L10	46.10'	S12° 52' 42" W
L11	5.36'	S6° 15' 28" E
L12	166.72'	S16° 29' 45" W
L13	1.05'	N74° 18' 36" W
L14	143.82'	S14° 37' 57" W
L15	70.68'	S15° 21' 03" W
L16	153.01'	S15° 21' 03" W

- LEGEND:**
- IRF IRON PIPE FOUND
 - DHF DRILL HOLE FOUND
 - FSF DRILL HOLE FOUND IN FIELD STONE BOUND
 - IRS IRON ROD SET WITH PLASTIC CAP STAMPED "E.COLBURN PLS 1920"
 - MHS MAG HUB SET WITH PLASTIC CAP STAMPED "E.COLBURN PLS 1920"
 - DHS DRILL HOLE SET
 - AP TAX ASSESSOR'S PLAT
 - DB PG DEED BOOK AND PAGE
 - N/F NOW OR FORMERLY
 - SQ.FT. SQUARE FEET
 - ± INDICATES A MORE OR LESS VALUE
 - RECORDED PLAT LOT NUMBER
 - UP24-12 UTILITY POLE AND NUMBER
 - OHW OVERHEAD UTILITY WIRES
 - - - 220 - - - EXISTING MAJOR 10' CONTOUR INTERVAL
 - - - - - EXISTING MINOR 2' CONTOUR INTERVAL
 - ○ ○ ○ ○ EXISTING STONE WALL
 - CB EXISTING CATCHBASIN
 - SEV EXISTING SOIL EVALUATION TESTHOLE
 - BT1 SET BENCHMARK BENCHMARK
 - ▲ WF-1 EXISTING WETLAND DELINEATION FLAG (BY OTHERS)

- REFERENCES:**
- SEE PLAT ENTITLED "SURVEY FOR WER LAFARGE, EXETER, R.I." BY BOYER ASSOCIATES RECORDED AT MAP 265.
 - SEE PLAT ENTITLED "FINAL PLAN, MAJOR SUBDIVISION, OWNER/APPLICANT BARBARA D. ALLEN, 29 POTTER LANE" BY ENVIRONMENTAL PLANNING AND SURVEYING INC. RECORDED AT MAP #349.
 - SEE PLAT ENTITLED "SITE PLAN FOR WOODBRIDGE CORPORATION LOCATED AT KINGSTON ROAD, EXETER, R.I." BY AMERICAN ENGINEERING RECORDED AT MAP 354.
 - SEE TOWN OF RICHMOND TAX ASSESSOR'S DATABASE AND GIS FOR PARCEL OWNERSHIP DATA AND TOWN WATER LINE LOCATIONS.
 - RIGIS LIDAR 2' CONTOUR GIS DATA.

RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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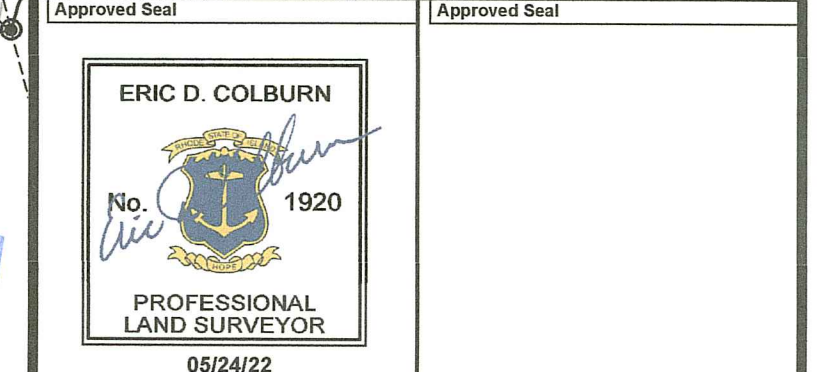
- NOTES:**
- BOUNDARY SURVEY WAS CONDUCTED IN THE FIELD.
 - THE SURVEYED PARCEL HAS RECORDED AND OBSERVED MEANS OF INGRESS AND EGRESS ALONG MAIL ROAD, A PUBLIC ROAD.
 - SEE HORSE ENCLOSURE AREA ENCROACHMENT.
 - THE DATA ACCUMULATION METHOD WITHIN THOSE TWO AREAS OF THE PLAN OUTLINED AND LABELED AS "OUTER LIMITS OF MANUAL TOPOGRAPHIC SURVEY (TYP.)" WAS OBTAINED BY FIELD SURVEY. THE CONTOURS SHOWN OUTSIDE OF THE TWO MANUAL TOPOGRAPHIC SURVEY AREAS ARE DEVELOPED FROM RIGIS LIDAR GIS DATA AND ARE CERTIFIED AS COMPILATION PLAN ONLY.
 - THE LIDAR CONTOURS SHOWN ON THE COMPILATION PLAN PORTIONS OF THIS PLAN HAVE BEEN PREPARED FROM SOURCES OF INFORMATION AND DATA WHOSE POSITIONAL ACCURACY AND RELIABILITY THAT HAS NOT BEEN VERIFIED. THE COMPILATION PLAN IS ALWAYS SUBJECT TO CHANGES AS AN AUTHORITY FIELD SURVEY MAY DISCLOSE. THE COMPILED PORTIONS OF THIS PLAN ARE DERIVED FROM SECONDARY SOURCES AND ARE NOT THE RESULT OF AN AUTHORITY FIELD SURVEY.
 - BEARINGS SHOWN HEREON ARE BASED ON GRID NORTH, PER GPS OBSERVATION. THE HORIZONTAL DATUM IS NAD'83 AND THE VERTICAL DATUM IS NAVD'88.
 - NO UNDERGROUND UTILITIES ARE SHOWN ON THIS SURVEY. ONLY ABOVE GROUND VISIBLE EVIDENCE OF UTILITIES ARE SHOWN.
 - NO VISIBLE EVIDENCE OF CEMETERIES WERE OBSERVED ON SUBJECT PROPERTY.
 - ALL STATEMENTS WITHIN THE CERTIFICATION, AND OTHER REFERENCES LOCATED ELSEWHERE HEREON, RELATED TO: UTILITIES, IMPROVEMENTS, STRUCTURES, BUILDINGS, PARTY WALLS, PARKING, EASEMENTS, SERVITUDES, AND ENCROACHMENTS ARE BASED SOLELY ON ABOVE GROUND, VISIBLE EVIDENCE, UNLESS ANOTHER SOURCE OF INFORMATION IS SPECIFICALLY REFERENCED HEREON.
 - THE SUBJECT PROPERTY HAS DIRECT PHYSICAL ACCESS TO MAIL ROAD, A DEDICATED PUBLIC STREET OR HIGHWAY.
 - FARM, FOREST AND OPEN SPACE LAND DESIGNATION RECORDED IN BOOK 456 AT PAGE 257, AS CORRECTED IN BOOK 456 AT PAGE 288, (AFFECTS, AGREEMENT, NOTHING TO PLOT).
 - STAMAS TRUST U/I/D 8/18/09 TO THE WASHINGTON TRUST COMPANY DATED DECEMBER 11, 2014 AND RECORDED DECEMBER 12, 2014 AT 2:03 P.M. IN BOOK 466 AT PAGE 132. (AFFECTS, MORTGAGE, NOTHING TO PLOT).
 - TOWN OF EXETER ZONING BOARD OF REVIEW DECISION DATED MARCH 6, 2020 AND RECORDED ON MARCH 6, 2020 AT 3:25 P.M. IN BOOK 547, PAGE 202. (AFFECTS, EXTENSION, NOTHING TO PLOT).
 - TOWN OF EXETER ZONING BOARD OF REVIEW DECISION DATED MARCH 6, 2020 AND RECORDED ON MARCH 6, 2020 AT 3:27 P.M. IN BOOK 547, PAGE 203. (INCORRECT PLAT, BLOCK AND LOT AND ADDRESS). (SUPERSEDED (SEE 10 ABOVE), EXTENSION, NOTHING TO PLOT).
 - TOWN OF EXETER, RI ZONING CERTIFICATE DATED AUGUST 8, 2018 AND RECORDED IN BOOK 522, PAGE 213. (AFFECTS, CERTIFICATE/DECISION, NOTHING TO PLOT).
 - TOWN OF EXETER, RI PLANNING BOARD RECORD OF DECISION DATED JANUARY 22, 2019 AND RECORDED ON FEBRUARY 11, 2019 AT 3:25 P.M. IN BOOK 529, PAGE 174. (AFFECTS, DECISION, UNABLE TO PLOT NOTED CONDITIONS OF APPROVALS WITHOUT NOTED PLAN DATED 12/8/18).
 - TOWN OF EXETER, RI ZONING BOARD OF REVIEW DECISION DATED FEBRUARY 25, 2019 AND RECORDED ON APRIL 9, 2019 AT 1:24 P.M. IN BOOK 531, PAGE 276. (AFFECTS, DECISION, UNABLE TO PLOT).
 - TOWN OF EXETER, RI ZONING BOARD OF REVIEW DECISION DATED MARCH 25, 2019 AND RECORDED ON APRIL 9, 2019 AT 2:22 P.M. IN BOOK 531, PAGE 280. (INCORRECT LESSOR AND ADDRESS BUT CORRECT LESSEE) (DOES NOT AFFECT, DECISION FOR A DIFFERENT PROPERTY).
 - MEMORANDUM OF SOLAR SITE LEASE AGREEMENT BY AND BETWEEN RITA A. STAMAS, AS TRUSTEE OF THE RINA A. STAMAS TRUST - 2009 DATED AUGUST 4, 2009 AND RENEW SOLAR RI EXETER MAIL LLC DATED OCTOBER 19, 2018 AND RECORDED ON FEBRUARY 12, 2020 AT 12:14 P.M. IN BOOK 546, PAGE 120. (INCORRECT LESSOR AND ADDRESS BUT CORRECT LESSEE). (AFFECTS, LEASE MEMORANDUM, UNABLE TO PLOT).
 - NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A LICENSED SURVEYOR. ADDITIONS AND DELETIONS TO SURVEY MAPS, SKETCHES, OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
 - ALL INFORMATION ON THIS PLAN IS SUBJECT TO THE USER'S FIELD VERIFICATION. ABOVEGROUND AND UNDERGROUND UTILITY, STRUCTURE, AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROLE TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO THE SURVEYOR. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL DIGSAFE 811.



Trusted Land Surveyors & Mapping Experts
 8 North Road, Foster, Rhode Island 02825
 (401) 647-9240 team@fostersurvey.com www.fostersurvey.com

Certification of survey:
 This survey has been conducted and the plan has been prepared pursuant to 435-RIGR-00-001.9 of the Rules and Regulations adopted by the Rhode Island State Board of Registration for Professional Land Surveyors on November 25, 2015, as follows:
 (a) Type of Boundary Survey: Measurement Specification:
 Limited Content Boundary Survey I
 (b) Other Type of Survey:
 Data Accumulation Survey III
 Compilation Plan IV
 Vertical Control Standard V-3
 Topographic Survey Accuracy T-1
 Compilation Plan Disclaimer: The compilation portions of this plan relative to the depicted RIGIS LIDAR GIS contours has been prepared from sources of information and data whose positional accuracy and reliability has not been verified and is subject to such changes as an authoritative field survey may disclose. See notes 4 and 5.

(c) Statement of Purpose
 The purpose for the conduct of the survey and for the preparation of the plan is as follows: To perform a Topographic Survey to show the location of the existing site contours, wetland flags, and related topographic features, and a Perimeter Survey of a strip of land along the boundaries of that certain parcel of land identified as Exeter Tax Assessor's Plat 71 Block 4 Lot 14.
 By: Eric D. Colburn PLS Signature
 Eric D. Colburn, PLS No. 1920 Printed PLS Name & License No. LS-A238 COA No.



Topographic Survey & Perimeter Survey Plan

AP 71 BLOCK 4 LOT 14
 148 Mail Road
 Exeter, Rhode Island
 Prepared For: Nautilus Solar Energy

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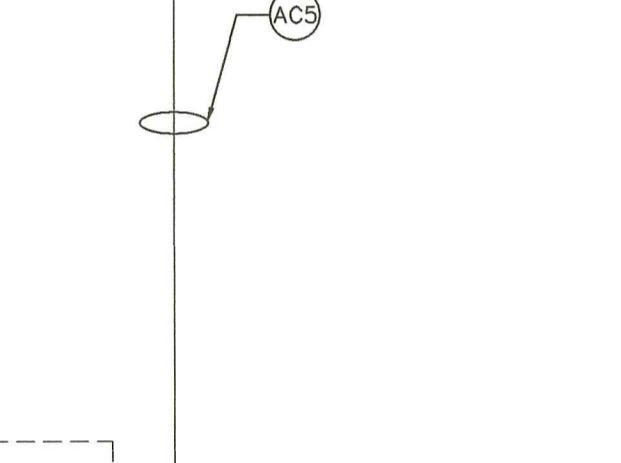
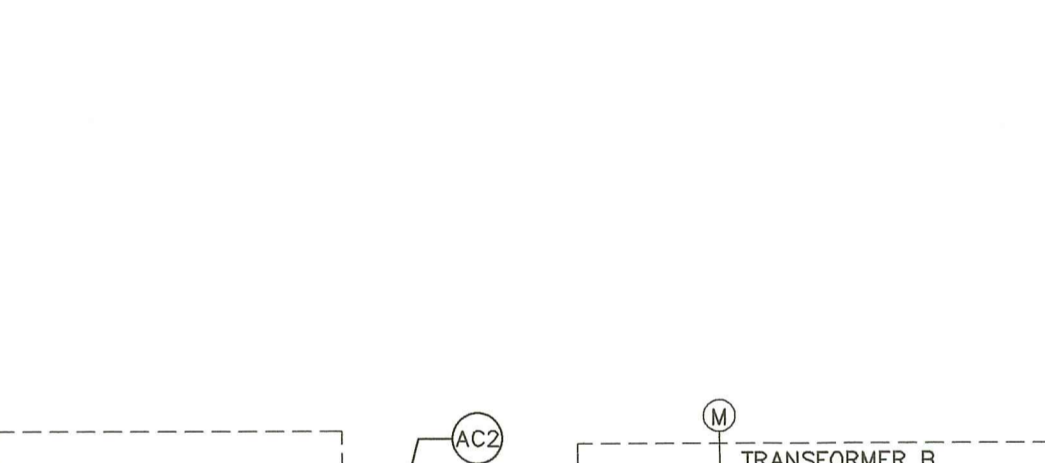
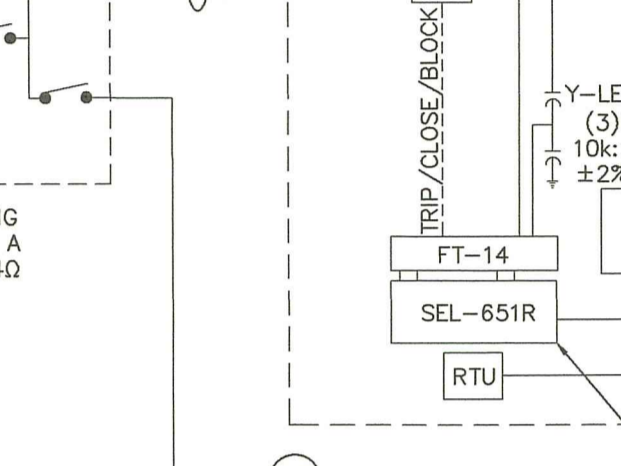
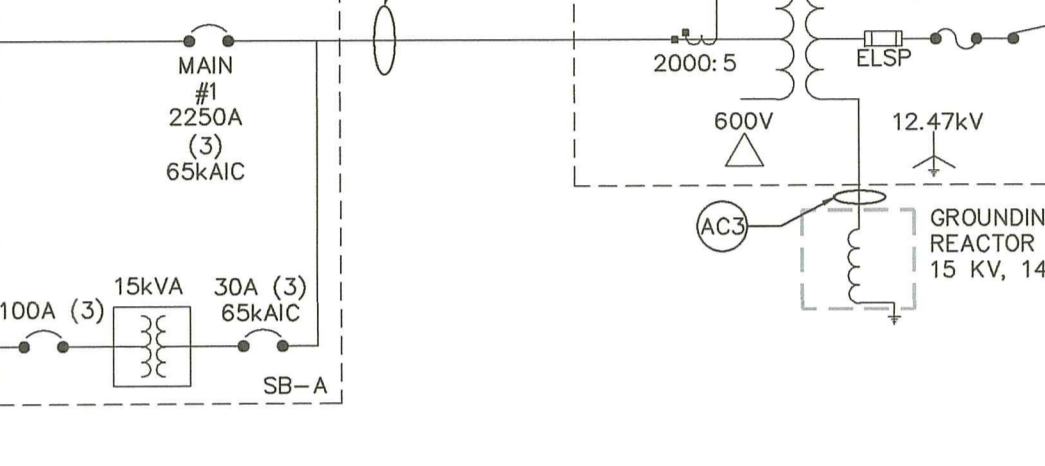
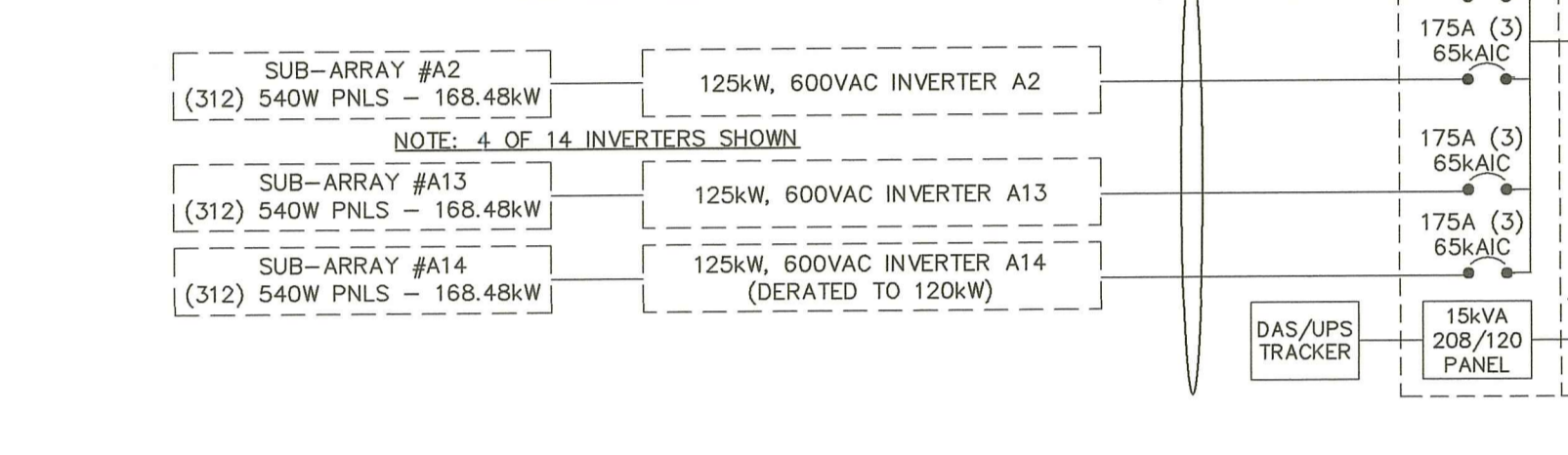
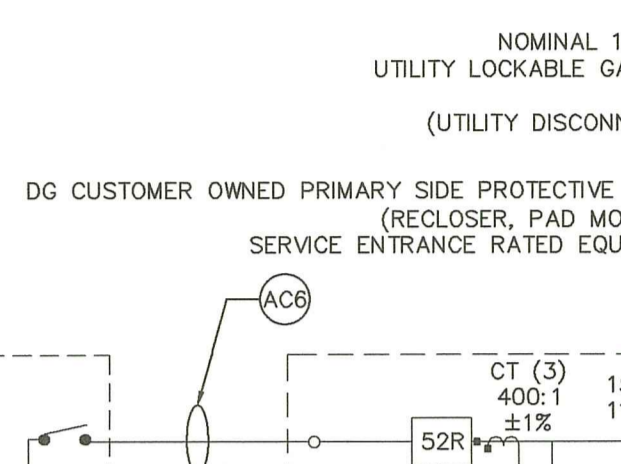
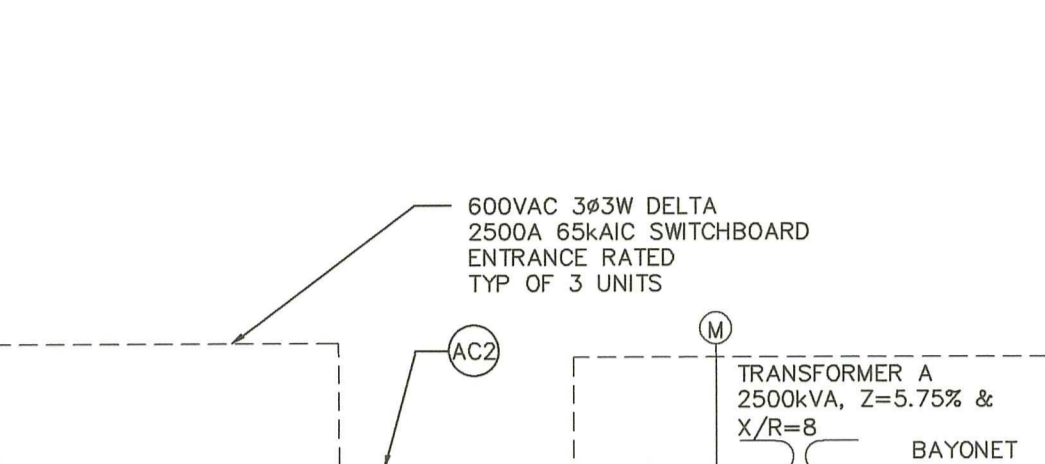
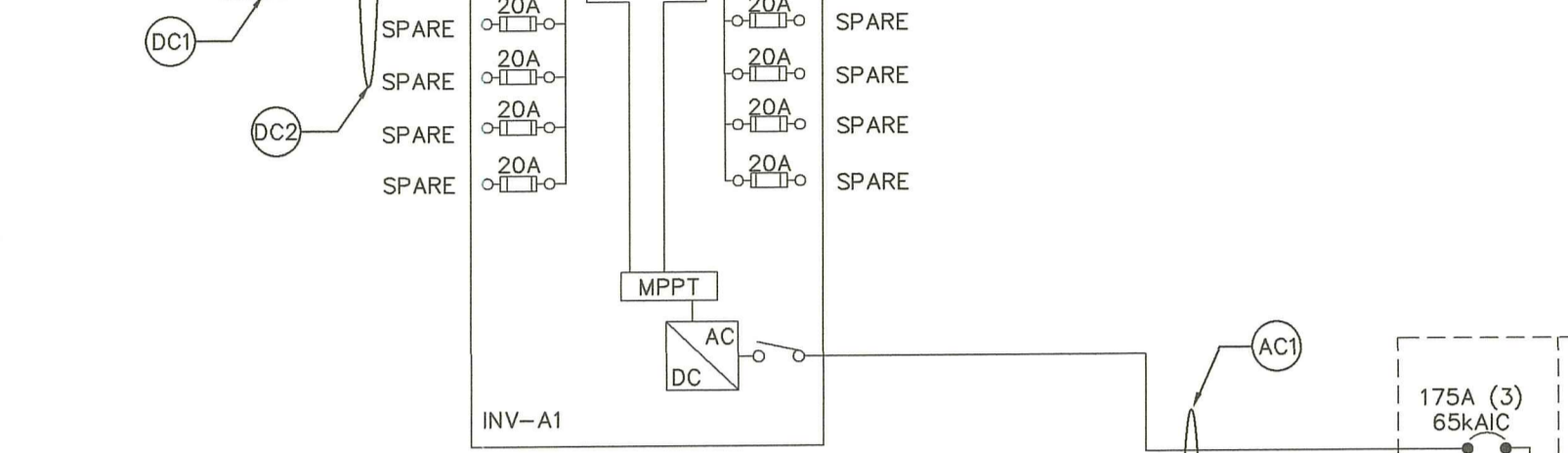
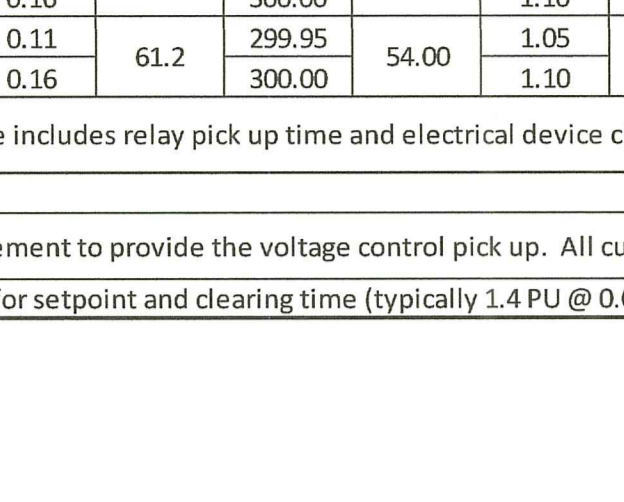
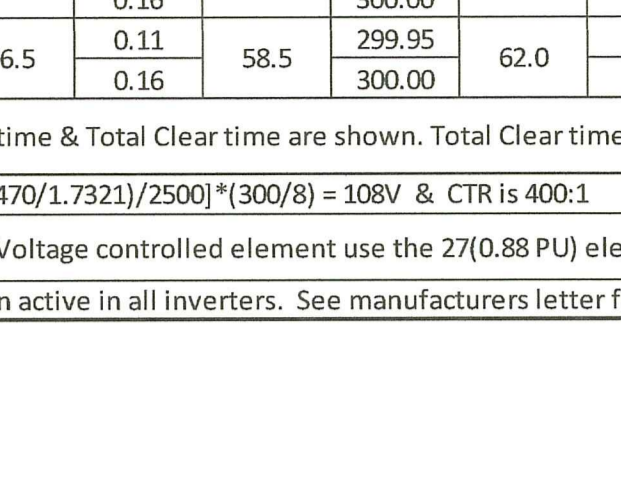
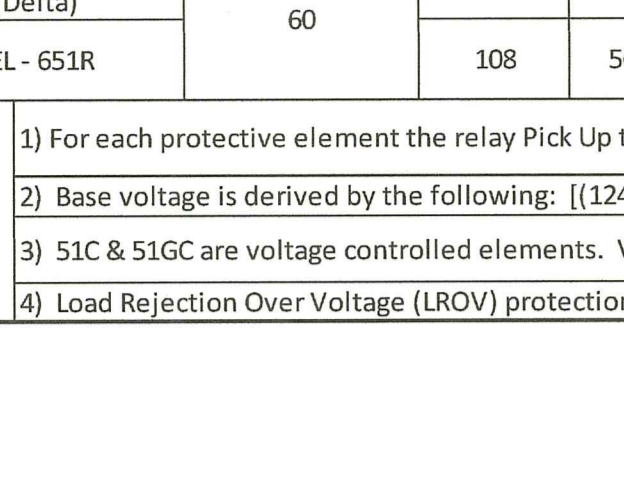
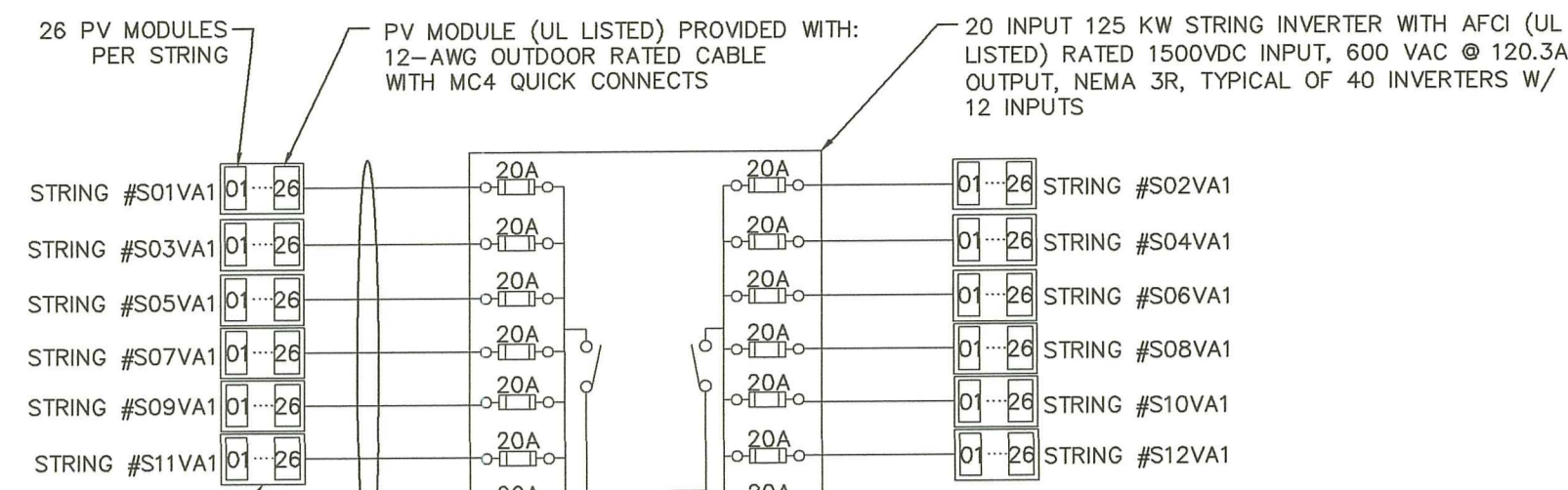
Issue	Date & Issue Description	By Check
00	05/24/22 ORIGINAL ISSUE	EDC EDC

Types of Surveys

Project Name	Project No.
Nautilus Solar	1608

Checked By: EDC
 Drawn By: EDC
 Scale: 1 inch = 150 ft.

Sheet ID	Sheet
V1	1

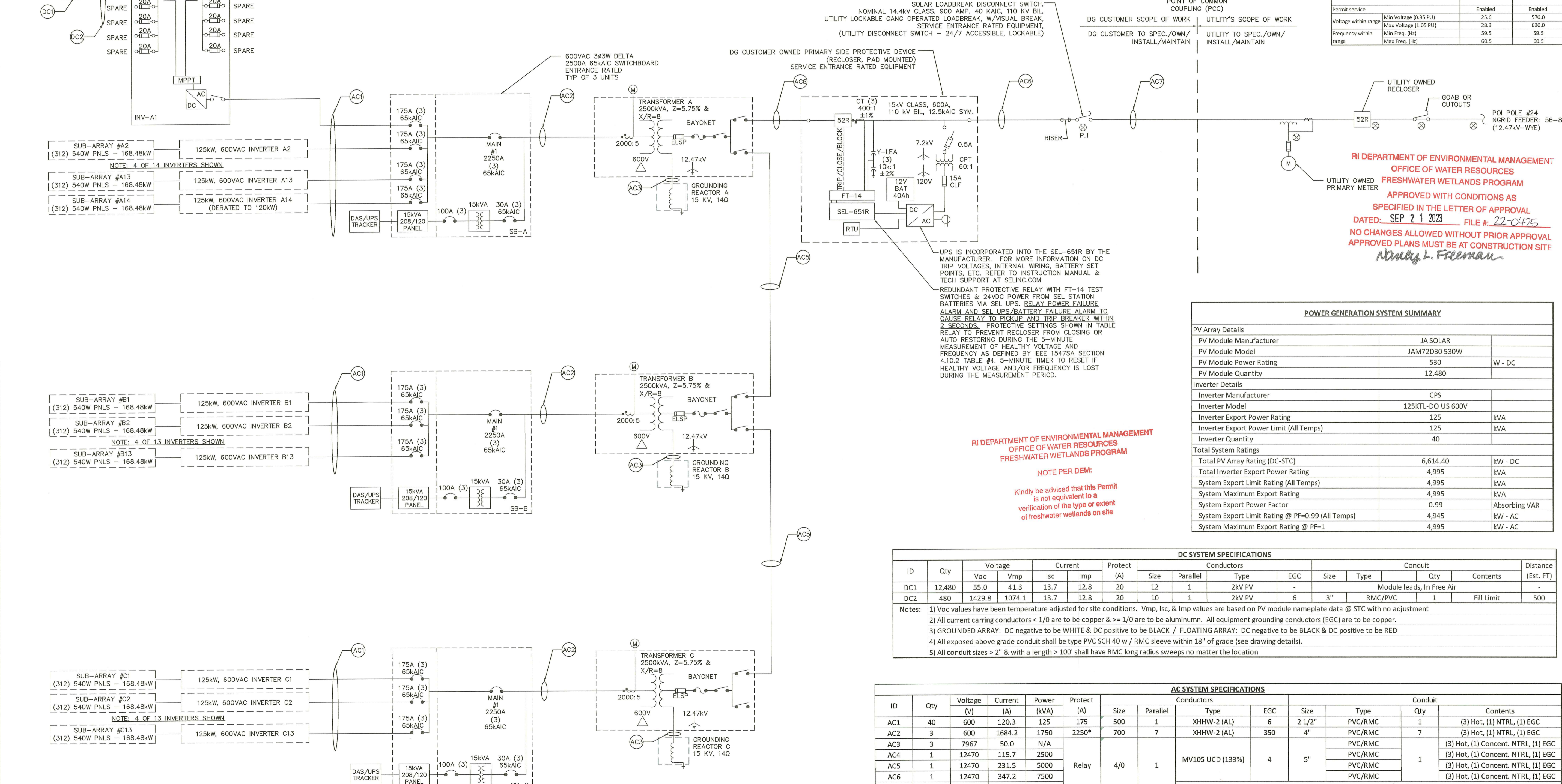


Proposed Relay Settings

Component	Base Info**		Relay Element																							
			81U (Fast)		81U (Slow)		81O (Fast)		81O (Slow)		27 (0.50 PU)		27 (0.88 PU)		59 (1.20 PU)		LROV (1.40 PU)		51		51G		59N			
	Freq (Hz)	Voltage (V)	Freq	Pick Up & Clear(s)	Freq	Pick Up & Clear(s)	Freq	Pick Up & Clear(s)	Freq	Pick Up & Clear(s)	Volt	Pick Up & Clear(s)	Volt	Pick Up & Clear(s)	Volt	Pick Up & Clear(s)	Volt	Clear Time(s)	Amp (sec.)	Curve & T.Dial	Amp (sec.)	Pick Up & Clear(s)	Volt	Pick Up & Clear(s)		
PV Inverters (Delta)	60	600	56.5	0.09	58.5	299.93	62.0	0.16	61.2	299.93	300.0	1.03	528.0	1.93	660.0	1.93	720.0	0.09	-	-	-	-	-	-	-	-
SEL-651R	108	56.5	56.5	0.16	58.5	299.95	62.0	0.16	61.2	299.95	54.00	1.05	95.03	2.00	118.79	1.95	129.59	0.16	1.15	U4	0.58	0.58	U4	54.00	1.00	

- Notes:
- 1) For each protective element the relay Pick Up time & Total Clear time are shown. Total Clear time includes relay pick up time and electrical device clearing time. Inverters have an electrical device clearing time of 70 ms. Recloser (denoted by SEL-651R) has an electrical clearing time of 50ms.
 - 2) Base voltage is derived by the following: $[(12470/1.7321)/2500] * (300/8) = 108V$ & CTR is 400:1
 - 3) 51C & 51G are voltage controlled elements. Voltage controlled element use the 27(0.88 PU) element to provide the voltage control pick up. All current elements subject to change based upon final coordination study. Min pickup for 51C = 0.1
 - 4) Load Rejection Over Voltage (LROV) protection active in all inverters. See manufacturers letter for setpoint and clearing time (typically 1.4 PU @ 0.001sec).

Utility Restoration		
Enter into Service Criteria		
Permit service	SEL-651R	PV Inverters (Delta)
Enter service criteria	Enabled	Enabled
Min Voltage (0.95 PU)	25.6	570.0
Max Voltage (1.05 PU)	28.3	630.0
Min Freq. (Hz)	59.5	59.5
Max Freq. (Hz)	60.5	60.5



RI DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS AS SPECIFIED IN THE LETTER OF APPROVAL
DATED: SEP 21 2023 FILE # 22-0475
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

POWER GENERATION SYSTEM SUMMARY		
PV Array Details		
PV Module Manufacturer	JA SOLAR	
PV Module Model	JAM72D30 530W	
PV Module Power Rating	530	W - DC
PV Module Quantity	12,480	
Inverter Details		
Inverter Manufacturer	CPS	
Inverter Model	125KTL-DO US 600V	
Inverter Export Power Rating	125	kVA
Inverter Export Power Limit (All Temps)	125	kVA
Inverter Quantity	40	
Total System Ratings		
Total PV Array Rating (DC-STC)	6,614.40	kW - DC
Total Inverter Export Power Rating	4,995	kVA
System Export Limit Rating (All Temps)	4,995	kVA
System Maximum Export Rating	4,995	kVA
System Export Power Factor	0.99	Absorbing VAR
System Export Limit Rating @ PF=0.99 (All Temps)	4,945	kW - AC
System Maximum Export Rating @ PF=1	4,995	kW - AC

DC SYSTEM SPECIFICATIONS														
ID	Qty	Voltage		Current		Protect (A)	Conductors			Conduit			Distance (Est. FT)	
		Voc	Vmp	Isc	Imp		Size	Parallel	Type	EGC	Size	Type		Qty
DC1	12,480	55.0	41.3	13.7	12.8	20	12	1	2KV PV	-	-	-	Module leads, In Free Air	-
DC2	480	1429.8	1074.1	13.7	12.8	20	10	1	2KV PV	6	3"	RMC/PVC	1	Fill Limit

Notes:

- 1) Voc values have been temperature adjusted for site conditions. Vmp, Isc, & Imp values are based on PV module nameplate data @ STC with no adjustment
- 2) All current carrying conductors < 1/0 are to be copper & >= 1/0 are to be aluminum. All equipment grounding conductors (EGC) are to be copper.
- 3) GROUNDED ARRAY: DC negative to be WHITE & DC positive to be BLACK / FLOATING ARRAY: DC negative to be BLACK & DC positive to be RED
- 4) All exposed above grade conduit shall be type PVC SCH 40 w / RMC sleeve within 18" of grade (see drawing details).
- 5) All conduit sizes > 2" & with a length > 100' shall have RMC long radius sweeps no matter the location

AC SYSTEM SPECIFICATIONS													
ID	Qty	Voltage (V)	Current (A)	Power (kVA)	Protect (A)	Conductors			Conduit			Contents	
						Size	Parallel	Type	EGC	Size	Type		Qty
AC1	40	600	120.3	125	175	500	1	XHHW-2 (AL)	6	2 1/2"	PVC/RMC	1	(3) Hot, (1) NTRL, (1) EGC
AC2	3	600	1684.2	1750	2250*	700	7	XHHW-2 (AL)	350	4"	PVC/RMC	7	(3) Hot, (1) NTRL, (1) EGC
AC3	3	7967	50.0	N/A							PVC/RMC		(3) Hot, (1) Concent. NTRL, (1) EGC
AC4	1	12470	115.7	2500							PVC/RMC	1	(3) Hot, (1) Concent. NTRL, (1) EGC
AC5	1	12470	231.5	5000							PVC/RMC		(3) Hot, (1) Concent. NTRL, (1) EGC
AC6	1	12470	347.2	7500							PVC/RMC		(3) Hot, (1) Concent. NTRL, (1) EGC
AC7	1	12470	347.2	7500							PVC/RMC		(3) Hot, (1) Concent. NTRL, (1) EGC

Notes:

- 1) All current carrying conductors < 1/0 are to be copper & >= 1/0 are to be aluminum. All equipment grounding conductors (EGC) are to be copper.
- 2) MV105 UCD (133%): Underground primary distribution cable with 133% insulation level & 1/3 concentric neutral. All xfmrs to have 600A dead break elbows
- 3) All Medium Voltage circuits to have (1) Spare conduit installed with mule tape installed & sealed at both ends.
- 4) All exposed above grade conduit shall be type PVC SCH 40 w / RMC sleeve within 18" of grade (see drawing details).
- 5) All conduit sizes > 2" & with a length > 100' shall have RMC long radius sweeps no matter the location
- 6) All Switchboard MCBs are 2500A Frame units with the overcurrent pickup set to Ln = 2250A (90%)

INDUSTRIA ENGINEERING

91 CEDAR ST MILFORD MA 01757

NAUTILUS SOLAR

STAMP

NOTE: DRAFTED IN ANSI D, PRINTING AT OTHER SIZES MAY AFFECT SCALING

DESCRIPTION OF REVISION

REV. #

DATE

7/19/2022

REDUCED SYSTEM SIZE TO 4.995MW AC

ONE LINE

EXETER - MAIL

148 MAIL RD, EXETER RI 02822

NAUTILUS

KC

CHECKED

JS

JULY 2022

FIGURE

E-2