RWE CLEAN ENERGY

FRANKFORD A SOLAR FARM
SEDIMENT & STORMWATER MANAGEMENT PLANS

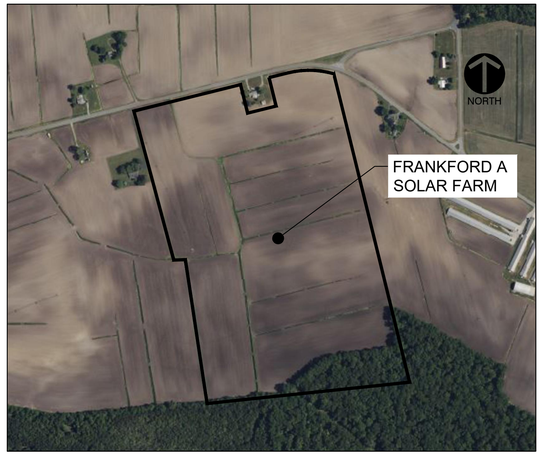
27858 CYPRESS ROAD
TOWN OF FRANKFORD

PARCEL DATA

- EXISTING CONDITIONS:
  - LOT AREA = 3,007,295 S.F. OR 69.038 ACRES
- PROPOSED CONDITIONS:
  - GRAVEL ACCESS DRIVEWAY AREA = 42,677 S.F. OR 0.979 ACRES
  - PANEL AREA = 288,197 S.F. OR 6.616 ACRES
  - EQUIPMENT PAD AREA = 1,440 S.F., OR 0.033 ACRES
  - PERIMETER FENCE AREA = 979,229 S.F. OR 22.48 ACRES
  - LEASE AREA = 1,016,255 S.F. OR 23.33 ACRES
  - SYSTEM SIZE = 4.0 MW AC
- EXISTING WETLAND AREA: N/A
- PROPOSED DISCHARGE LOCATION (SUB-DRAINAGE AREA P-2): AGRICULTURAL DITCH (38.4719 N ; 75.2603 W)
- PROPOSED DISCHARGE LOCATION (SUB-DRAINAGE AREA P-3): ROADSIDE DITCH (38.4764 N ; 75.2624 W)
- PROPOSED TOTAL LIMIT OF DISTURBANCE PER DISCHARGE LOCATION (SUB-DRAINAGE AREA P-2) : 2.958 ACRES
- PROPOSED TOTAL LIMIT OF DISTURBANCE PER DISCHARGE LOCATION (SUB-DRAINAGE AREA P-3) : 0.429 ACRES

SEDIMENT AND STORMWATER CONSTRUCTION NOTES

- THE DNREC SEDIMENT AND STORMWATER PROGRAM (OR THE RELEVANT DELEGATED AGENCY)SHALL BE NOTIFIED IN WRITING 5 DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN .
- REVIEW AND/OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATION, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
- IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY DNREC OR THE DELEGATED AGENCY.
- FOLLOWING SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHOULD BE APPROVED BY THE DEPARTMENT'S WELL PERMITS BRANCH.
- APPROVED PLANS REMAIN VALID FOR 5 YEARS FROM THE DATE OF APPROVAL.
- POST CONSTRUCTION VERIFICATION DOCUMENTS SHALL BE SUBMITTED TO THE DEPARTMENT (OR THE RELEVANT DELEGATED AGENCY) WITHIN 60-DAYS OF STORMWATER MANAGEMENT FACILITY COMPLETION.
- APPROVAL OF A SEDIMENT AND STORMWATER MANAGEMENT PLAN DOES NOT GRANT OR IMPLY A RIGHT TO DISCHARGE STORMWATER RUNOFF. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ACQUIRING ANY AND ALL AGREEMENTS, EASEMENTS, ETC., NECESSARY TO COMPLY WITH STATE DRAINAGE AND OTHER APPLICABLE LAWS.
- THE NOTICE OF INTENT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT FOR THIS PROJECT IS # (TO BE FILLED IN ONCE RECEIVED), THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY THE DEPARTMENT.
- THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT.
- THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT AND DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.
- BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHOULD CALL MISS UTILITY AT 811 OR 1-800-282-8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ONSITE.
- BEST AVAILABLE TECHNOLOGY (BAT) SHALL BE EMPLOYED TO MANAGE TURBID DISCHARGES IN ACCORDANCE WITH REQUIREMENTS OF 7 DEL.C. CH. 60 AND THE CURRENT DELAWARE CONSTRUCTION GENERAL PERMIT (CGP).
- DOCUMENTATION OF SOIL TESTING AND MATERIALS USED FOR TEMPORARY OR PERMANENT STABILIZATION INCLUDING BUT NOT LIMITED TO SOIL TEST RESULTS, SEED TAGS, SOIL AMENDMENT TAGS, ETC, SHALL BE PROVIDED TO THE DEPARTMENT (OR THE RELEVANT DELEGATED AGENCY) TO VERIFY THAT THE PERMANENT OR TEMPORARY STABILIZATION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN.
- THE DEPARTMENT (OR THE RELEVANT DELEGATED AGENCY) MAY REQUIRE ADDITIONAL SOIL TESTING AND REAPPLICATION OF PERMANENT OR TEMPORARY STABILIZATION IN ACCORDANCE WITH THE SPECIFICATIONS IN THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, OR ALTERNATIVE MEASURES THAT PROVIDE FUNCTIONAL EQUIVALENCY.
- WHEN DIRECTED BY THE DEPARTMENT (OR THE RELEVANT DELEGATED AGENCY), THE OWNER SHALL ACQUIRE THE SERVICES OF A THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER (CCR) TO PERFORM WEEKLY CONSTRUCTION REVIEWS. SEDIMENT AND STORMWATER MANAGEMENT PLANS APPROVED BY THE DEPARTMENT SHALL HAVE A THIRD PARTY CCR.



LOCATION MAP
1"=500'

SITE LEGEND:

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- PROPERTY SETBACK LINE
- PROPOSED LEASE LINE
- PROPOSED ACCESS/UTILITY EASEMENT
- RIGHT-OF-WAY (R.O.W.) LINE
- EXISTING TREELINE
- EDGE OF EXISTING GRAVEL DRIVEWAY
- EDGE OF EXISTING ROADWAY
- TAX DITCH RIGHT-OF-WAY
- EXISTING STREAM
- EDGE OF WATER
- EXISTING SWALE
- STORM PIPE
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- CONTOUR - MAJOR
- CONTOUR - MINOR
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED PERIMETER FENCE
- LIMITS OF DISTURBANCE
- COMPOST FILTER LOG
- PROPOSED GRASS CHANNEL
- PROPOSED CONTOUR - MAJOR
- PROPOSED CONTOUR - MINOR
- PROPOSED LIMITS OF CONDITIONAL USE AREA
- PROPOSED DIRVEWAY
- TRACKER SOLAR PANELS
- PROPOSED ASPHALT APRON
- PROPOSED CULVERT AND FLARED END SECTION
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- EXISTING ONE POST SIGN
- MONUMENT FOUND
- IRON BAR/CAPPED REBAR FOUND
- INVERT OR INVERT WITH END SECTION
- EXISTING MAILBOX
- IRON PIPE/POST FOUND
- SANITARY MANHOLE
- FLOW ARROW

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PROJECT INFORMATION:

LATITUDE: 38.472801 N
LONGITUDE: 75.259457 W

TOWN: FRANKFORD
HUNDRED: BALTIMORE
COUNTY: SUSSEX
STATE: DELAWARE
STREET: 27858 CYPRESS ROAD
WATERSHED: BUNTINGS BRANCH
TAX MAP ID: 533-8.00-10.00
NOI #: TBD

PROJECT OWNER/DEVELOPER:

RWE CLEAN ENERGY
100 SUMMIT LAKE DRIVE
VALHALLA, NY 10595
PH: (973) 600-4328
CONTACT: JOE SHANAHAN
EMAIL: SHANAHANJ@CONEDCEB.COM

DESIGNER:

COLLIERS ENGINEERING & DESIGN
18 CORPORATE WOODS BLVD, SUITE 400
ALBANY, NY 12211
PH: (518) 862-0325
CONTACT: ERIC REDDING, P.E.
EMAIL: ERIC.REDDING@COLLIERSENG.COM

OWNER/DEVELOPER CERTIFICATION

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED STANDARD PLAN AND THAT RESPONSIBLE PERSONNEL (I.E. BLUE CARD HOLDER) INCOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING PRIOR TO INITIATION OF THE PROJECT, AT A DNREC SPONSORED OR APPROVED TRAINING COURSE FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. IN ADDITION, I GRANT THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE RELEVANT DELEGATED AGENCY THE RIGHT TO CONDUCT ON-SITE REVIEWS, AND I UNDERSTAND MY RESPONSIBILITIES UNDER THE NPDES CONSTRUCTION GENERAL PERMIT, AS REFERENCED ON THIS COVERSHEET.

OWNER/DEVELOPER:
RWE CLEAN ENERGY
100 SUMMIT LAKE DRIVE
VALHALLA, NY 10595

Joe Shanahan — 5/31/2024
OWNER/DEVELOPER SIGNATURE — DATE

Joe Shanahan, SENIOR PROJECT MANAGER
OWNER/DEVELOPER NAME AND TITLE

WETLAND CERTIFICATION

THIS PROPERTY, TAX MAP #533-8.00-10.00, HAS BEEN EXAMINED BY COLLIERS FOR THE PRESENCE OF WATERS OF THE UNITED STATES, INCLUDING WETLANDS (SECTION 404 AND 10), STATE SUBAQUEOUS LANDS AND STATE REGULATED WETLANDS AS ESTABLISHED BY THE REVIEWING AGENCIES IN THE FORM OF MANUALS, POLICIES AND PROCEDURES IN PLACE AT THE TIME THAT THE INVESTIGATION WAS CONDUCTED. THE WETLANDS INFORMATION CONTAINED IN THIS PLAN SET IS IN ACCORDANCE WITH THIS CRITERIA PER ARMY CORPS JD # NAP-2022-00750-85.

Jacob Erle — 12/27/2023
NATURAL RESOURCE SCIENTIST SIGNATURE — DATE

JACOB ERLE
NATURAL RESOURCE SCIENTIST NAME AND TITLE

LICENSED PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLIES WITH THE APPLICABLE STATE AND LOCAL REGULATIONS AND ORDINANCES.

Eric Redding — 05/31/2024
LICENSED PROFESSIONAL ENGINEER SIGNATURE — DATE

ERIC REDDING, PE, GEOGRAPHIC DISCIPLINE LEADER
LICENSED PROFESSIONAL ENGINEER NAME AND TITLE

CALL BEFORE YOU DIG !
DELAWARE LAW REQUIRES
NOTICE AT LEAST 2 FULL WORKING DAYS,
BUT NOT MORE THAN 10 FULL WORKING DAYS,
BEFORE EXCAVATION IS SCHEDULED TO BEGIN.
Dig|Safely. Delaware
1-800-282-8555

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.

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Formerly Known as BERGMANN

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ALL STATES REQUIRE NOTIFICATION OF EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN ANY STATE
FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION

ERIC REDDING LICENSE No.26736 DELAWARE PROFESSIONAL ENGINEER

MAJOR SITE PLAN APPLICATION
FOR
RWE CLEAN ENERGY

PARCEL ID 533-8.00-10.00

27858 CYPRESS ROAD
TOWN OF FRANKFORD
SUSSEX COUNTY
DELAWARE

Colliers Engineering & Design
ALBANY
18 Corporate Woods Blvd.
Suite 400
Albany, NY 12211
Phone: 518.862.0325
COLLIERS ENGINEERING & DESIGN CT, P.C.

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	5/31/2024	JL	WD

PROJECT NUMBER:	DRAWING NAME:
23013689A	C000

SHEET TITLE: COVER SHEET

SHEET NUMBER: 1 of 17

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

xref: Xrefs\gis_tm\23013689A\civil_3D\proj\24_1 Civil\23013689A C000.dwg\C000 By: WDABBOUDE

GENERAL NOTES:

1. THE UNDERGROUND STRUCTURES AND UTILITIES SHOWN ON THIS MAP HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORD MAPS, THEY ARE NOT CERTIFIED TO THE ACCURACY OF THEIR LOCATION AND/OR COMPLETENESS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND EXTENT OF ALL UNDERGROUND STRUCTURES AND UTILITIES PRIOR TO ANY DIGGING OR CONSTRUCTION ACTIVITIES IN THEIR VICINITY. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES FIELD STAKED BEFORE STARTING WORK BY CALLING 1-800-282-8555.
2. THE CONTRACTOR SHALL PERFORM ALL WORK IN COMPLIANCE WITH TITLE 29 OF FEDERAL REGULATIONS, PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION (OSHA).
3. HIGHWAY DRAINAGE ALONG ALL ROADS AND PRIVATE DRIVES SHALL BE KEPT CLEAN OF MUD, DEBRIS ETC. AT ALL TIMES.
4. THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER BEFORE DEVIATING FROM THESE PLANS.
5. IN ALL TRENCH EXCAVATIONS, CONTRACTOR MUST LAY THE TRENCH SIDE SLOPES BACK TO A SAFE SLOPE, USE A TRENCH SHIELD OR PROVIDE SHEETING AND BRACING.
6. IF SUSPICIOUS AND/OR HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION/CONSTRUCTION, ALL WORK SHALL STOP AND THE SUSSEX COUNTY DEPARTMENT OF HEALTH AND THE DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL SHALL BE NOTIFIED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL THE DEVELOPER HAS OUTLINED APPROPRIATE ACTION FOR DEALING WITH THE WASTE MATERIAL AND THE DEVELOPMENT PLANS ARE MODIFIED AS MAY BE NECESSARY.
7. EXCAVATED WASTE MATERIAL REMOVED FROM THE SITE SHALL BE PLACED AT A LOCATION ACCEPTABLE TO THE DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL.
8. AREAS DISTURBED OR DAMAGED AS PART OF THIS PROJECTS CONSTRUCTION THAT ARE OUTSIDE OF THE PRIMARY WORK AREA SHALL BE RESTORED, AT THE CONTRACTORS EXPENSE, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
9. UNLESS COVERED BY THE CONTRACT SPECIFICATIONS OR AS NOTED ON THE PLANS, ALL WORK SHALL CONFORM TO THE DELAWARE DEPARTMENT OF TRANSPORTATION (DELDOT) STANDARD SPECIFICATIONS.
10. THE VEGETATION OF THE ENTIRE SITE, INCLUDING THE AREA OUTSIDE OF THE FENCE SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT SO THAT IT DOES NOT BECOME OVERGROWN.

CONSTRUCTION SITE WASTES - GENERAL:

1. AN INDIVIDUAL SHOULD BE DESIGNATED TO OVERSEE AND ENFORCE WASTE MANAGEMENT PROCEDURES AND SPILL PREVENTION PRACTICES PER THE DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL GUIDELINES.
2. DESIGNATE A WASTE COLLECTION AREA ON-SITE THAT DOES NOT RECEIVE A SUBSTANTIAL AMOUNT OF RUNOFF AND DOES NOT DRAIN DIRECTLY TO A WATERBODY. STORAGE AREAS SHOULD NOT BE LOCATED NEWAR INLETS OR STORMWATER MANAGEMENT CONVEYANCE SYSTEMS.
3. REDUCE THE SOURCES OF WASTE TO THE GREATEST EXTENT POSSIBLE.
4. ENSURE THAT CONTAINERS HAVE WATERTIGHT LIDS SO THEY CAN BE COVERED BEFORE PERIODS OF RAIN, AND KEEP CONTAINERS IN A COVERED AREA WHENEVER POSSIBLE. DUMPSTERS AND OTHER CONTAINERS SHOULD NOT BE HOSED OUT. LET THE TRASH-HAULING CONTRACTOR CLEAN OUT CONTAINERS.
5. SCHEDULE WASTE COLLECTION TO PREVENT CONTAINERS FROM OVERFILLING. DURING THE DEMOLITION PHASE OF CONSTRUCTION, PROVIDE EXTRA CONTAINERS AND SCHEDULE MORE FREQUENT PICKUPS.
6. COLLECT, REMOVE AND DISPOSE OF ALL CONSTRUCTION SITE WASTES AT AUTHORIZED DISPOSAL AREAS. A LOCAL ENVIRONMENTAL AGENCY CAN BE CONTACTED TO IDENTIFY THESE DISPOSAL SITES.
7. PROVIDED PROPER SANITARY FACILITIES FOR CONSTRUCTION WORKERS.

WASTE MANAGEMENT PRACTICES

1. ALL WASTE MATERIAL SHALL BE COLLECTED AND STORED IN SECURELY LIDDED DUMPSTERS IN A LOCATION THAT DOES NOT DRAIN TO A WATERBODY.
2. WASTE MATERIALS SHALL BE SALVAGED AND/OR RECYCLED WHENEVER POSSIBLE.
3. THE DUMPSTERS SHALL BE EMPTIED A MINIMUM OF TWICE PER WEEK, OR MORE IF NECESSARY. THE LICENSED TRASH HAULER IS RESPONSIBLE FOR CLEANING OUT DUMPSTERS.
4. TRASH SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE DELAWARE LAWS.
5. TRASH CANS SHALL BE PLACED AT ALL LUNCH SPOTS AND LITTERING IS STRICTLY PROHIBITED. RECYCLE BINS SHALL BE PLACED NEAR THE CONSTRUCTION TRAILER.
6. IF FERTILIZER BAGS CAN NOT BE STORED IN A WEATHER-PROOF LOCATION, THEY SHALL BE KEPT ON A PALLET AND COVERED WITH PLASTIC SHEETING WHICH IS OVERLAPPED AND ANCHORED.

PETROLEUM PRODUCTS

1. STORE PETROLEUM PRODUCTS AND FUEL FOR VEHICLES IN COVERED AREAS, LINED WITH A DOUBLE LAYER OF PLASTIC SHEETING OR SIMILAR MATERIAL.
2. VEHICLE FUELING OPERATIONS SHOULD BE ESTABLISHED IN A DESIGNATED AREA. THE ABOVEGROUND FUELING TANKS NEED TO BE SET IN AN IMPERVIOUS BERM WITH A CAPACITY TEN PERCENT GREATER THAN THAT OF THE LARGEST CONTAINER.
3. ROUTINE INSPECTIONS OF THE TANK AND THE SECONDARY CONTAINMENT ARE REQUIRED.
4. CLEARLY LABEL ALL PRODUCTS.
5. KEEP TANKS OFF THE GROUND WITH LIDS SECURELY FASTENED.
6. OIL AND OILY WATERS SUCH AS CRANKCASE OIL, CANS, RAGS, AND PAPER DROPPED INTO OILS AND LUBRICANTS SHOULD BE DISPOSED OF IN A PROPER RECEPTABLES OR RECYCLED.
7. WASTE OIL FOR RECYCLING SHOULD NOT BE MIXED WITH DEGREASERS, SOLVENTS , AND ANTIFREEZE, OR BRAKE FLUID.

NUTRIENT MANAGEMENT

1. STORE FERTILIZERS IN COVERED AREAS NOT SUBJECT TO STORMWATER RUNOFF
2. APPLY FERTILIZERS AT THE MIINIMUM RATE AND TO THE MINIMUM AREA NECESSARY, PREFERABLY BASED ON SOIL TESTS.
3. WORK FERTILIZERS AND LIMING MATERIALS INTO THE SOIL DEPTHS OF 4 TO 6 INCHES.
4. USE DETERGENTS ONLY AS RECOMMENDED, AND LIMIT THEIR USE ONSITE. WASH WATER CONTAINING DETERGENTS SHOULD NOT BE DUMPED INTO THE STORM DRAIN SYSTEM. IT SHOULD BE DIRECTED T A SANITARY SEWER OR BE OTHERWISE CONTAINED SO THAT IT CAN BE TREATED OR PROPERLY DISPOSED OF.

EQUIPMENT MAINTENANCE PRACTICES

1. IF POSSIBLE, EQUIPMENT SHOULD BE TAKEN TO OFF-SITE COMMERCIAL FACILITIES FOR WASHING AND MAINTENANCE.
2. IF PERFORMED ON-SITE, VEHICLES SHALL BE WASHED WITH HIGH-PRESSURE WATER SPAY WITHOUT DETERGENTS IN AN AREA CONTAINED BY AN IMPERVIOUS BERM.
3. DRIP PANS SHALL BE USED FOR ALL EQUIPMENT MAINTENANCE.
4. EQUIPMENT SHALL BE INSPECTED FOR LEAKS ON A DAILY BASIS.
5. WASHOUT FROM CONCRETE TRUCKS SHALL BE DISPOSED OF IN A TEMPORARY PIT FOR HARDENING PROPER DISPOSAL.
6. FUEL NOZZLES SHALL BE EQUIPPED WITH AUTOMATIC SHUT-OFF VALVES.
7. ALL USED PRODUCTS SUCH AS OIL, ANTIFREEZE, SOLVENTS AND TIRES SHALL BE DISPOSED OF IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS AND LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.
8. CONTAINERS OR EQUIPMENT THAT MAY MALFUNCTION AND CAUSE LEAKS OR SPILLS SHOULD BE IDENTIFIED THROUGH REGULAR INSPECTION OF STORAGE AND USE AREAS. EQUIPMENT AND CONTAINERS SHOULD BE INSPECTED REGULARLY FOR LEAKS, CORROSION SUPPORT OR FOUNDATION FAILURE, OR ANY OTHER SIGNS OF DETERIORATION AND SHOULD BE TESTED FOR SOUNDNESS. ANY FOUND TO BE DEFECTIVE SHOULD BE REPAIRED OR REPLACED IMMEDIATELY. AMPLE SUPPLIES AND SPILL KITS NEED TO BE READILY AVAILABLE ON SITE FOR SPILL REMEDIATION. PERFORM PERIODIC RECONNAISSANCE OF THE CONSTRUCTION SITE TO IDENTIFY ANY ADDITIONAL WASTER MATERIAL OR WATER SOURCES THAT NEED TO BE ADDRESSED.

SEQUENCE OF CONSTRUCTION

1. NOTIFY THE DNREC SEDIMENT AND STORMWATER PROGRAM AND SUSSEX COUNTY CONSERVATION DISTRICT IN WRITING AT LEAST FIVE (5) DAYS PRIOR TO TO THE START OF CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED AND CONDUCTED WITH THE THE SUSSEX COUNTY CONSERVATION DISTRICT CONSTRUCTION SITE REVIEWER. THE LANDOWNER/DEVELOPER, CONTRACTOR AND THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING; THE DESIGNER IS RECOMMENDED TO ATTEND.
3. CLEARING AND GRUBBING FOR THE AREAS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.
4. CONSTRUCTION OF PERIMETER CONTROLS. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
5. PREPARE SITE FOR CONSTRUCTION. ROUGH GRADING. STRIPPING AND STOCKPILING TOPSOIL. AREAS THAT WILL NOT BE FURTHER DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE STOCKPILED IN THE AREAS SHOWN ON THE DRAWINGS, LEVELED ON SITE, OR DISPOSED OF OFF-SITE IN A LEGAL MANNER. STOCKPILES SHALL BE TEMPORARILY STABILIZED WITH SILT FENCE AND/OR TEMPORARY SEEDING.
6. INSTALL PROPOSED GRAVEL DRIVEWAY AND SOLAR PANELS.
7. GRADE PROPOSED BIOSWALE.
8. MAINTENANCE OF CONSTRUCTION SITE STORMWATER MANAGEMENT BMPS. THE CON TRACTOR SHOULD AT ALL TIMES PROTECT AGAINST SEDIMENT AND DEVRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHOULD BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT SHOULD BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY ANY AGENCY CONSTRUCTION SITE REVIEWER.
9. UNDERGROUND UTILITIES. EXCAVATED MATERIAL FOR UTILITIES SHALL EITHER BE LEVELED ON SITE, OR DISPOSED OF OFF-SITE IN A LEGAL MANNER.
10. FINAL GRADING: REMAINING AREAS SHALL BE SEEDED AND MULCHED WITHIN 5 DAYS OF FINAL GRADING.
11. INSTALL PERIMETER FENCING.
12. TEMPORARY SOIL EROSION CONTROL MEASURES ARE TO BE REMOVED WHEN PERMANENT MEASURES ARE IN PLACE AND THE AREA IS STABILIZED, WITH WRITTEN APPROVAL FROM THE SUSSEX COUNTY CONSERVATION DISTRICT SITE REVIEWER.
13. THE TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL REQUIRE SUBMISSION AND ACCEPTANCE OF THE POST CONSTRUCTION VERIFICATION DOCUMENTS, INCLUDING FINAL STABILIZATION THROUGHOUT THE SITE, ALL ELEMENTS OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN IMPLEMENTED, AND ACCEPTANCE OF THE FINAL OPERATION AND MAINTENANCE PLAN.

CONTINUED MAINTENANCE OF ALL PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE OWNER, CON EDISON DEVELOPMENT, INC. MAINTENANCE RESPONSIBILITIES SHALL BECOME A PART OF ANY SALES OR EXCHANGE AGREEMENT FOR THE LAND ON WHICH THE PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE LOCATED.

HAZARDOUS MATERIALS:

1. LOCAL WASTE MANAGEMENT AUTHORITIES SHOULD BE CONSULTED ABOUT THE REQUIREMENTS FOR HANDLING AND DISPOSING OF HAZARDOUS MATERIALS. RIGHT TO KNOW AND REPORTING REQUIREMENTS FOR CHEMICALS AND CHEMICAL COMPOUNDS MUST BE FOLLOWED.
2. THE ENTIRE PRODUCT SHOULD BE USED BEFORE DISPOSING OF THE CONTAINER. A HAZARDOUS WASTE CONTAINER SHOULD BE EMPTIED AND CLEANED BEFORE IT IS DISPOSED OF TO PREVENT LEAKS. IF PRODUCT REMNANTS ARE WET OR MOIST, LET THEM DRY BEFORE CLEANING AND DISPOSING OF THE CONTAINER.
3. THE ORIGINAL PRODUCT LABEL SHOULD NEVER BE REMOVED FROM THE CONTAINER AS IT CONTAINS IMPORTANT SAGETY INFORMATION. FOLLOW THE MANUFACTURES RECOMMENDED SAFETY MEASURES AND METHOD OF DISPOSAL, WHICH SHOULD BE PRINTED ON THE LABEL.
4. IF EXCESS PRODUCT NEED TO BE DISPOSED OF, THEY SHOULD NEVER BE MIXED DURING DISPOSAL UNLESS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER.
5. HAZARDOUS WASTE CONTAINERS SHOULD BE PLACED IN SECONDARY CONTAINMENT.
6. STATE OR LOCAL SOLID WASTE REGULATORY AGENCIES OR PRIVATE FIRMS SHOULD BE CONSULTED TO ENSURE THE PROPER DISPOSAL OF CONTAMINATED SOILS THAT HAVE BEEN EXPOSED. SOME LANDFILLS MIGHT ACCEPT CONTAMINATED SOILS BUT THEY REQUIRE LABORATORY TESTS FIRST.

MATERIAL INVENTORY

1. CONTRACTOR SHALL DOCUMENT THE STORAGE AND USE OF THE FOLLOWING MATERIAL ON-SITE: CONCRETE, DETERGENTS, PAINTS (ENAMEL AND LATEX), CLEANING SOLVENTS, PESTICIDES, WOOD SCRAPS, FERTILIZERS, PETROLEUM BASED PRODUCTS.

GOOD HOUSEKEEPING PRACTICES

1. STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS SHALL BE STORED IN A NEAT ORDERLY MANNER IN THEIR ORIGINAL LABELED CONTAINERS AND COVERED.
3. SUBSTANCES SHALL NOT BE MIXED.
4. WHEN POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP PTIOR TO DISPOSAL OF THE CONTAINER.
5. MANUFACTURERS' INSTRUCTIONS FOR DISPOSAL SHALL BE STRICTLY ADHERED TO.
6. THE SITE FOREMAN SHALL DESIGNATE SOMEONE TO INSPECT ALL BMPS DAILY.

EQUIPMENT MAINTENANCE PRACTICES

1. IF POSSIBLE, EQUIPMENT SHOULD BE TAKEN TO OFF-SITE COMMERCIAL FACILITIES FOR WASHING AND MAINTENANCE.
2. IF PERFORMED ON-SITE, VEHICLES SHALL BE WASHED WITH HIGH-PRESSURE WATER SPAY WITHOUT DETERGENTS IN AN AREA CONTAINED BY AN IMPERVIOUS BERM.
3. DRIP PANS SHALL BE USED FOR ALL EQUIPMENT MAINTENANCE.
4. EQUIPMENT SHALL BE INSPECTED FOR LEAKS ON A DAILY BASIS.
5. WASHOUT FROM CONCRETE TRUCKS SHALL BE DISPOSED OF IN A TEMPORARY PIT FOR HARDENING PROPER DISPOSAL.
6. FUEL NOZZLES SHALL BE EQUIPPED WITH AUTOMATIC SHUT-OFF VALVES.
7. ALL USED PRODUCTS SUCH AS OIL, ANTIFREEZE, SOLVENTS AND TIRES SHALL BE DISPOSED OF IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS AND LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS.

POLLUTION PREVENTION - SPILL PREVENTION:

1. FUELING SHOULD ONLY TAKE PLACE IN SIGNED DESIGNATED AREAS, AWAY FROM DOWNSTREAM DRAINAGE FACILITIES AND WATER COURSES.
2. FUELING MUST BE WITH NOZZLES EQUIPPED WITH AUTOMATIC SHUT-OFF TO CONTROL DRIPS. DO NOT TOP OFF.
3. PROTECT THE AREAS WHERE EQUIPMENT OR VEHICLES ARE BEING REPAIRED, MAINTAINED, FUELED OR PARKED FROM STORM WATER RUN-ON AND RUNOFF.
4. USE BARRIERS SUCH AS BERMS TO PREVENT STORM WATER RUN-ON AND RUNOFF, AND TO CONTAIN SPILLS..
5. PLACE A "FUELING AREA" SIGN NEXT TO EACH FUELING AREA.
6. STORE HAZARDOUS MATERIALS SUCH AS FUELS, SOLVENTS, OIL AND CHEMICALS IN SECONDARY CONTAINMENT.
7. INSPECT VEHICLES AND EQUIPMENT FOR LEAKS ON EACH DAY OF USE. REPAIR FLUID AND OIL LEAKS IMMEDIATELY.
8. ABSORBENT SPILL CLEAN-UP MATEIALS AND SPILL KITS MUST BE AVAILBLE IN FUELING AREAS AND ON FUEL TRUCKS.
9. IF FUELING IS TO TAKE PLACE AT NIGHT, MAKE SURE THE FUELING AREA IS SUFFICIENTLY ILLUMINATED.
10. PROPERTLY DISPOSE OF USED OILS, FLUIDS LUBRICANTS AND SPILL CLEAN-UP MATERIALS.

CLEAN UP SPILLS

1. IF IT IS SAFE TO DO SO, IMMEDIATELY CONTAIN AND CLEAN UP ANY CHEMICAL AND/OR HAZARDOUS MAATERIAL SPILLS.
2. PROPERLY DISPOSE OF USED OIL, FLUIDS, LUBRICANTS AND SPILL CLEAN-UP MATERIALS.
3. DO NOT BURY SPILLS OR WASH THEM DOWN WITH WATER.

LEAKS AND DRIPS

1. USE DRIP PANS OR ABSORBENT PADS AT ALL TIMES. PLACE UNDER AND AROUND LEAKY EQUIPMENT.
2. DO NOT ALLOW OIL, GREASE, FUEL OR CHEMICALS TO DRIP ONTO THE GROUND.
3. HAVE SPILL KITS AND CLEAN UP MATERIAL ON-SITE.
4. REPAIR LEAKY EQUIPMENT WASTE IN SEALED CONTAINERS CONSTRUCTED OF SUITABLE MATERIAL. LABEL THESE CONTAINERS PROPERLY.
5. CLEAN UP ALL SPILLS AND LEAKS. PROMPTLY DISPOSE OF WASTE AND SPENT CLEAN UP MATERIALS.

SPILL PREVENTION PRACTICES

1. POTENTIAL SPILL AREAS SHALL BE IDENTIFIED AND CONTAINED IN COVERED AREAS WITH NO CONNECTION TO THE STORM DRAIN SYSTEM.
2. WARNING SIGNS SHALL BE POSTED IN HAZARDOUS MATERIAL STORAGE AREAS.
3. PREVENTIVE MAINTENANCE SHALL BE PERFORMED ON ALL TANKS, VALVES, PUMPS, PIPES AND OTHER EQUIPMENT AS NECESSARY.
4. LOW OR NON-TOXIC SUBSTANCES SHALL BE PRIORITIZED FOR USE.
5. CONTACT INFORMATION FOR REPORTING SPILLS THROUGH THE DNREC 24-HOUR TOLL FREE NUMBER SHALL BE PROMINENTLY POSTED.

CONTACT INFORMATION

DNREC 24-HOUR TOLL FREE NUMBER	800-662-8802
DNREC SOLID & HAZARDOUS MANAGEMENT SECTION	302-739-9403

ADDITIONAL STORMWATER MAINTENANCE NOTES

1. THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE SUSSEX COUNTY CONSERVATION DISTRICT RESERVES THE RIGHT TO ENTER PRIVATE PROPERTY FOR PURPOSES OF PERIODIC SITE REVIEWS.
2. THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE SUSSEX COUNTY CONSERVATION DISTRICT SHOULD BE NOTIFIED WITHIN 30 BUSINESS DAYS IF THE PROPERTY OWNERSHIP IS TRANSFERRED TO A NEW PERSON OR ENTITY.
3. THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE SUSSEX COUNTY CONSERVATION DISTRICT MAY SEEK ENFORCEMENT ACTION AGAINST ANY OWNER DEEMED NEGLIGENT IN FULFILLING THE OPERATION AND MAINTENANCE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
4. THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE SUSSEX COUNTY CONSERVATION DISTRICT SHOULD BE CONTACTED IF A CONCERN ARISES REGARDING A STORMWATER MANAGEMENT FACILITY, BEFORE ANY NON-ROUTINE MAINTENANCE, OR IF MODIFICATIONS TO THE FACILITY ARE DESIRED.
5. ANY DESIGN MODIFICATION TO THE STORMWATER SYSTEM SHALL REQUIRE THE CREATION OF A NEW POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN AND/OR OPERATION AND MAINTENANCE PLAN WITHOUT APPROVAL OF THE PLANS BY THE DNREC SEDIMENT AND STORMWATER PROGRAM OR THE SUSSEX COUNTY CONSERVATION DISTRICT.
6. FOR ALL STORMWATER EASEMENT AREAS (I.E., ACCESS, MAINTENANCE, OR OFFSITE) AND THE MINIMUM 15-FOOT WIDE ACCESSWAYS TO ALL STORMWATER FACILITIES AND THEIR STRUCTURAL COMPONENTS, REGULAR MOWING SHOULD BE PERFORMED TO KEEP THE GRASS 6 INCHES OR LESS; NO TREES OR SHRUBS SHOULD BE PLANTED, AND ANY FOUND GROWING SHOULD BE REMOVED; AND NO PERMANENT STRUCTURES, SUCH AS FENCES OR SHEDS, SHOULD BE LOCATED WITHIN THE EASEMENT OR ACCESSWAY.
7. TREES SHOULD NOT BE PLANTED AND SHOULD BE REMOVED IF FOUND GROWING, ON AND WITHIN 15 FEET OF ALL POND EMBANKMENTS, ON POND SLOPES AND SAFETY BENCHES, AND WITHIN 10 FEET OF STRUCTURAL COMPONENTS, SUCH AS PIPE INLETS.
8. WHEN THE FACILITY IS EXCAVATED TO REMOVE ACCUMULATED SEDIMENT, THE DISPOSAL AREA SHALL BE PERMANENTLY STABILIZED SO THAT IT DOES NOT RECREATE AN EROSION PROBLEM. ANY MATERIAL TAKEN OFFSITE SHALL STILL BE USED OR DISPOSED OF IN AN APPROVED DNREC MANNER.
9. BEFORE ANY EARTHWORK OR EXCAVATION TAKES PLACE, THE CONTRACTOR SHOULD CALL MISS UTILITY AT 811 OR 1-800-282-8555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, TO HAVE ALL EXISTING UTILITIES MARKED ONSITE.

DELDOT GENERAL NOTES

1. ALL ENTRANCES SHALL CONFORM TO THE DELAWARE DEPARTMENT OF TRANSPORTATION'S (DELDOT'S) CURRENT DEVELOPMENT COORDINATION MANUAL AND SHALL BE SUBJECT TO ITS APPROVAL.
2. AS OF THE ISSUANCE OF THE NOTICE TO PROCEED (NTP) ALL MATERIALS AND WORKMANSHIP WITHIN THE STATE OF DELAWARE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CURRENT STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SUPPLEMENTAL SPECIFICATIONS, STANDARD CONSTRUCTION DETAILS, SPECIAL PROVISIONS, PAS MANUAL AND DESIGN GUIDANCE MEMORANDUMS.
3. ALL DISTURBED AREAS WITHIN THE STATE RIGHT-OF-WAY, BUT NOT IN THE PAVEMENT, SHALL BE TOP-SOILED (6” MINIMUM), FERTILIZED, SEEDED AND MULCHED. IF SOD IS USED NEXT TO SIDEWALK OR SHARED-USE PATH, CONTRACTOR SHALL GRADE TOPSOIL ADJACENT TO THE SIDEWALK OR SHARED-USE PATH PRIOR TO PLACEMENT OF SOD TO ENSURE THAT SOD IS PLACED FLUSH OR JUST BELOW EDGE OF SIDEWALK OR SHARED-USE PATH TO AVOID WATER PONDING ON THE SIDEWALK OR SHARED-USE PATH.
4. A 72-HOUR (MINIMUM) NOTICE SHALL BE GIVEN TO THE DELDOT DISTRICT PERMIT SUPERVISOR PRIOR TO STARTING ENTRANCE CONSTRUCTION.
5. MISS UTILITY OF DELAWARE SHALL BE NOTIFIED THREE (3) CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, AT 1-800-282-8555.
6. THE DEVELOPER SHALL BE REQUIRED TO FURNISH AND PLACE RIGHT-OF-WAY MONUMENTS IN ACCORDANCE WITH DELDOT'S DEVELOPMENT COORDINATION MANUAL.
7. AT THE DISCRETION OF THE PUBLIC WORKS INSPECTOR, ANY DAMAGED, NON-COMPLIANT OR MISSING CURB OR SIDEWALK FOUND ON SITE WILL NEED TO BE REPAIRED OR REPLACED TO MEET CURRENT DELDOT STANDARDS.
8. AS OF THE ISSUANCE OF THE NOTICE TO PROCEED (NTP), ALL SIGNING, STRIPING, AND MAINTENANCE OF TRAFFIC IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL FOLLOW THE GUIDELINES SHOWN IN THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DELAWARE MUTCD) FOR STREETS AND HIGHWAYS. THE DEVELOPER OR PROPERTY OWNERS SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL SIGNS INSTALLED AS PART OF THIS PROJECT.
9. PLAN LOCATION AND DIMENSIONS SHALL BE STRICTLY ADHERED TO UNLESS OTHERWISE DIRECTED BY THE DELDOT INSPECTOR.
10. A COPY OF THE-UP-TO DATE APPROVED CONSTRUCTION DOCUMENTS AND DELDOT APPROVAL LETTERS SHALL BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES AND BE AVAILABLE FOR INSPECTION BY DELDOT PERSONNEL.
11. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED IN ORDER TO SECURE THE MOST ACCURATE INFORMATION AVAILABLE AS TO UTILITY LOCATION AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST 48-HOURS IN ADVANCE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM DUE TO HIS/HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELAWARE (SEE NOTE #5).
12. SHOULD UTILITY RELOCATION BE REQUIRED, THE DEVELOPER MUST SUBMIT A UTILITY RELOCATION PLAN FOR DELDOT REVIEW, ALONG WITH CORRESPONDENCE FROM THE UTILITY COMPANIES STATING PRELIMINARY APPROVAL TO THE RELOCATION AND DESIGN OF THE UTILITIES PRIOR TO THE DELDOT PRE-CONSTRUCTION MEETING. NO PHYSICAL CONSTRUCTION CAN OCCUR UNTIL THE UTILITY PLANS ARE APPROVED, THE INDIVIDUAL UTILITY COMPANIES ISSUE FINAL APPROVAL, AND A DELDOT UTILITY PERMIT IS ISSUED TO THE UTILITY COMPANY.
13. UPON COMPLETION OF THE CONSTRUCTION OF THE SIDEWALK OR SHARED-USE PATH ACROSS THIS PROJECT'S FRONTAGE AND PHYSICAL CONNECTION TO ADJACENT EXISTING FACILITIES, THE DEVELOPER, THE PROPERTY OWNERS OR BOTH ASSOCIATED WITH THIS PROJECT, SHALL BE RESPONSIBLE TO REMOVE ANY EXISTING ROAD TIE-IN CONNECTIONS LOCATED ALONG ADJACENT PROPERTIES, AND RESTORE THE AREA TO GRASS. THESE DISTURBED AREAS SHALL BE TOP-SOILED (6” MINIMUM), FERTILIZED, SEEDED AND MULCHED. SUCH ACTIONS SHALL BE COMPLETED AT DELDOT'S DISCRETION, AND IN CONFORMANCE WITH THE DEVELOPMENT COORDINATION MANUAL.
14. DELDOT WILL NOT PROVIDE THE RESPECTIVE LOCAL LAND USE AGENCY WITH A 'NO OBJECTION TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY NOTICE' UNTIL THE ENTRANCE(S) ARE COMPLETED TO THE SATISFACTION OF THE DEPARTMENT.
15. DESIGN, FABRICATION AND INSTALLATION OF ALL PERMANENT SIGNING SHALL BE AS OUTLINED IN THE LATEST VERSION OF THE DELAWARE MUTCD.
16. DESIGN AND INSTALLATION OF ALL PAVEMENT MARKINGS AND STRIPING SHALL BE AS OUTLINED IN THE LATEST VERSION OF THE DELAWARE MUTCD. FOR FINAL PERMANENT PAVEMENT MARKINGS:
   a. EPOXY RESIN PAINT SHALL BE REQUIRED FOR LONG LINE STRIPING.
   b. THERMO PLASTIC (EXTRUDED OR PREFORMED MATERIAL) WILL BE REQUIRED ON ASPHALT SURFACES, FOR SHORT LINE STRIPING, I.E. SYMBOLS/LEGENDS.
   c. PERMANENT PAVEMENT MARKING TAPE (PER DELDOT'S APPROVED MATERIALS LIST) WILL BE REQUIRED ON CONCRETE SURFACES, FOR SHORT LINE STRIPING, I.E. SYMBOLS/LEGENDS.
17. REMOVAL OF PAVEMENT MARKING PAINT OR TAPE SHALL COMPLY WITH SECTION 5.11.2 OF THE DEVELOPMENT COORDINATION MANUAL.
18. BREAKAWAY POSTS SHALL BE USED WHEN INSTALLING ALL SIGNS. REFERENCE DELDOT'S STANDARD CONSTRUCTION DETAILS, SECTION VIII - TRAFFIC, T-15.
19. ALL FIXED OBJECTS ARE TO BE MINIMUM OF 10-FEET FROM THE EDGE OF TRAVEL LANE AND 5-FEET FROM THE EDGE OF PAVEMENT. REFERENCE SECTION 5.5.5 OF THE DEVELOPMENT MANUAL. ANY FIXED OBJECT THAT DOES NOT MEET THIS REQUIREMENT SHALL BE RELOCATED.
20. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL PAVING WITHIN THE STATE OF DELAWARE RIGHT-OF-WAY IS INSTALLED TO THE ELEVATIONS SHOWN AND NO PONDING OF WATER EXISTS AFTER PAVING IS COMPLETE.
21. ALL PROPOSED CLOSED STORMDRAIN SYSTEMS SHALL BE VIDEO INSPECTED, REPAIRED AS NECESSARY AND APPROVED PRIOR TO THE INSTALLATION OF FINAL PAVING. IF REPAIRS ARE NEEDED, THE REPAIRED PIPE SECTIONS WILL NEED TO BE VIDEO INSPECTED AGAIN BEFORE THE REPAIR CAN BE APPROVED.
22. THE DEVELOPER AND EXISTING/FUTURE OWNER OF NON-STATE MAINTAINED ROADWAYS SHALL ENSURE THAT THE TRAFFIC CONTROL DEVICES ON SAID ROADWAYS OPEN TO PUBLIC TRAVEL ARE IN COMPLIANCE WITH THE LATEST VERSION OF THE DELAWARE MUTCD.
23. ALL SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM STANDARD T-99 DRY DENSITY.

MAINTENANCE OF TRAFFIC NOTES

1. ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH: THE CONTRACT DOCUMENTS, THE LATEST VERSION OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (HEREINAFTER REFERRED TO AS THE “DELAWARE MUTCD”), CURRENT STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND SUPPLEMENTAL SPECIFICATIONS, INCLUDING ALL REVISIONS AS OF THE DATE OF THE ENTRANCE PERMIT APPROVAL.
2. CONTRACTOR SHALL SUPPLY MESSAGE BOARDS THAT ARE TO BE PLACED TEN (10) DAYS PRIOR TO CONSTRUCTION AND/OR TRAFFIC PATTERN CHANGES. THE MESSAGE BOARDS MUST REMAIN IN PLACE FIVE (5) DAYS AFTER WORK HAS STARTED AND/OR AFTER TRAFFIC PATTERN CHANGES. THE NUMBER OF MESSAGE BOARDS, LOCATIONS, AND WORDING ON THE MESSAGE BOARDS SHALL BE COORDINATED WITH THE DISTRICT SAFETY OFFICER
3. THE DEPARTMENT RESERVES THE RIGHT TO STOP THE CONTRACTOR'S OPERATIONS, IF, IN THE OPINION OF THE DEPARTMENT'S REPRESENTATIVE, THE CONTRACTOR'S OPERATIONS ARE NOT IN COMPLIANCE WITH THE DELAWARE MUTCD, THE SPECIFICATIONS OR THE PLANS OR IF THE CONTRACTOR'S OPERATIONS ARE DEEMED UNSAFE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE LOCAL 911 CENTER, LOCAL SCHOOLS AND DELDOT COMMUNITY RELATIONS OF ALL ROADS AND LANES TO BE CLOSED A MINIMUM OF SEVEN (7) CALENDAR DAYS BEFORE THE CLOSURE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE TRANSPORTATION MANAGEMENT CENTER IS NOTIFIED EACH AND EVERY DAY WHEN WORK IS BEING PERFORMED IN STATE RIGHT-OF-WAY. THE CONTRACTOR SHALL IDENTIFY THE TYPE OF WORK, ANY LANE(S) OR SHOULDER(S) CLOSED, THE LENGTH OF TIME FOR WORK, WHEN THE LANE RESTRICTIONS ARE IN PLACE AND WHEN LANE RESTRICTIONS ARE LIFTED, CONTACT PERSON/PHONE NUMBER AND STATE INSPECTOR. THE TRANSPORTATION MANAGEMENT CENTER CAN BE REACHED AT (302) 659-4600.
6. WHEN SIDE ROADS INTERSECT THE WORK ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED INCLUDING PERMANENT WARNING SIGNS.
7. ALL STORAGE OF EQUIPMENT AND MATERIAL SHALL COMPLY WITH THE DELAWARE MUTCD, SECTION 6G.21.
8. ALL PAVEMENT MARKINGS THAT ARE NO LONGER IN USE AND CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND COMPLETELY OBLITERATED BY A METHOD APPROVED BY THE ENGINEER. PAINTING OVER THE CONFLICTING PAVEMENT MARKINGS WILL NOT BE ACCEPTED AS A METHOD OF REMOVAL.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EXISTING PAVEMENT WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE CONTRACT OR AS DIRECTED BY THE ENGINEER.
10. TYPICAL APPLICATIONS PER THE DELAWARE MUTCD SHALL BE INCORPORATED TO ACHIEVE REQUIRED TEMPORARY TRAFFIC CONTROL AND SAFETY REQUIREMENTS. THIS PROJECT IS SUBJECT TO THE FOLLOWING TYPICAL APPLICATIONS UNLESS DIRECTED OTHERWISE BY THE DELDOT DISTRICT SAFETY OFFICER: TYPICAL APPLICATION CASE 10.

SUSSEX COUNTY PLANNING AND ZONING COMMITTEE CONDITIONS

1. THE USE SHALL BE FOR GROUND-MOUNTED SOLAR ARRAYS. NO OTHER TYPES OF ELECTRIC GENERATION SHALL BE PERMITTED AT THE SITE.
2. THE FINAL SITE PLAN SHALL CLEARLY SHOW THE LIMITS OF THE CONDITIONAL USE AREA FOR THIS SOLAR ARRAY AS WELL AS THE REMAINING ACREAGE THAT IS NOT PART OF THIS CONDITIONAL USE.
3. ANY LIGHTING ON THE FACILITY SHALL ONLY CONSIST OF PERIMETER LIGHTING NEEDED FOR SECURITY PURPOSES. ANY LIGHTING SHALL BE DOWNWARD SCREENED SO THAT IT DOES NOT SHINE ON NEIGHBORING PROPERTIES OR ROADWAYS.
4. ONE UNLIT SIGN, NOT TO EXCEED 32 SQUARE FEET IN SIZE, SHALL BE PERMITTED. THE SIGN SHALL IDENTIFY THE OPERATOR OF THE SOLAR FARM AND SHALL PROVIDE CONTACT INFORMATION IN CASE OF EMERGENCY.
5. THE SITE SHALL BE SECURED BY GATED FENCING AND A "KNOX BOX" OR SIMILAR DEVICE TO ACCOMMODATE EMERGENCY ACCESS BY THE LOCAL FIRE COMPANY OR OTHER EMERGENCY RESPONDERS. THE FENCING SHALL INCLUDE INTERWOVEN SCREENING ALONG THE NORTH AND EASTERN SIDES OF THE ARRAY AREA. THE FENCE LINE AND TYPE OF SCREENING SHALL BE SHOWN ON THE FINAL SITE PLAN.
6. THE LOCATION OF ALL TRANSFORMERS OR SIMILAR EQUIPMENT OR STRUCTURES SHALL BE SHOWN ON THE FINAL SITE PLAN.
7. THE ENTIRE SITE, INCLUDING THE AREA OUTSIDE THE FENCE, SHALL BE MAINTAINED SO THAT IT DOES NOT BECOME OVERGROWN.
8. STORMWATER MANAGEMENT AND EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE STATE AND COUNTY REQUIREMENTS. THESE FACILITIES SHALL BE OPERATED USING BEST MANAGEMENT PRACTICES.
9. THE FINAL SITE PLAN SHALL INCLUDE A DECOMMISSIONING PLAN THAT INCLUDES A FINANCIAL SECURITY TO ENSURE THAT FUNDS ARE AVAILABLE FOR DECOMMISSIONING AND REMOVAL OF THE SOLAR FARM IN ITS ENTIRETY THROUGHOUT THE LIFE OF THE CONDITIONAL USE.
10. THE FINAL SITE PLAN SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE SUSSEX COUNTY PLANNING & ZONING COMMISSION.

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ERIC REDDING LICENSE No. 26736 DELAWARE PROFESSIONAL ENGINEER

MAJOR SITE PLAN APPLICATION
FOR
RWE CLEAN ENERGY

PARCEL ID 533-8.00-10.00

27858 CYPRESS ROAD
TOWN OF FRANKFORD
SUSSEX COUNTY
DELAWARE

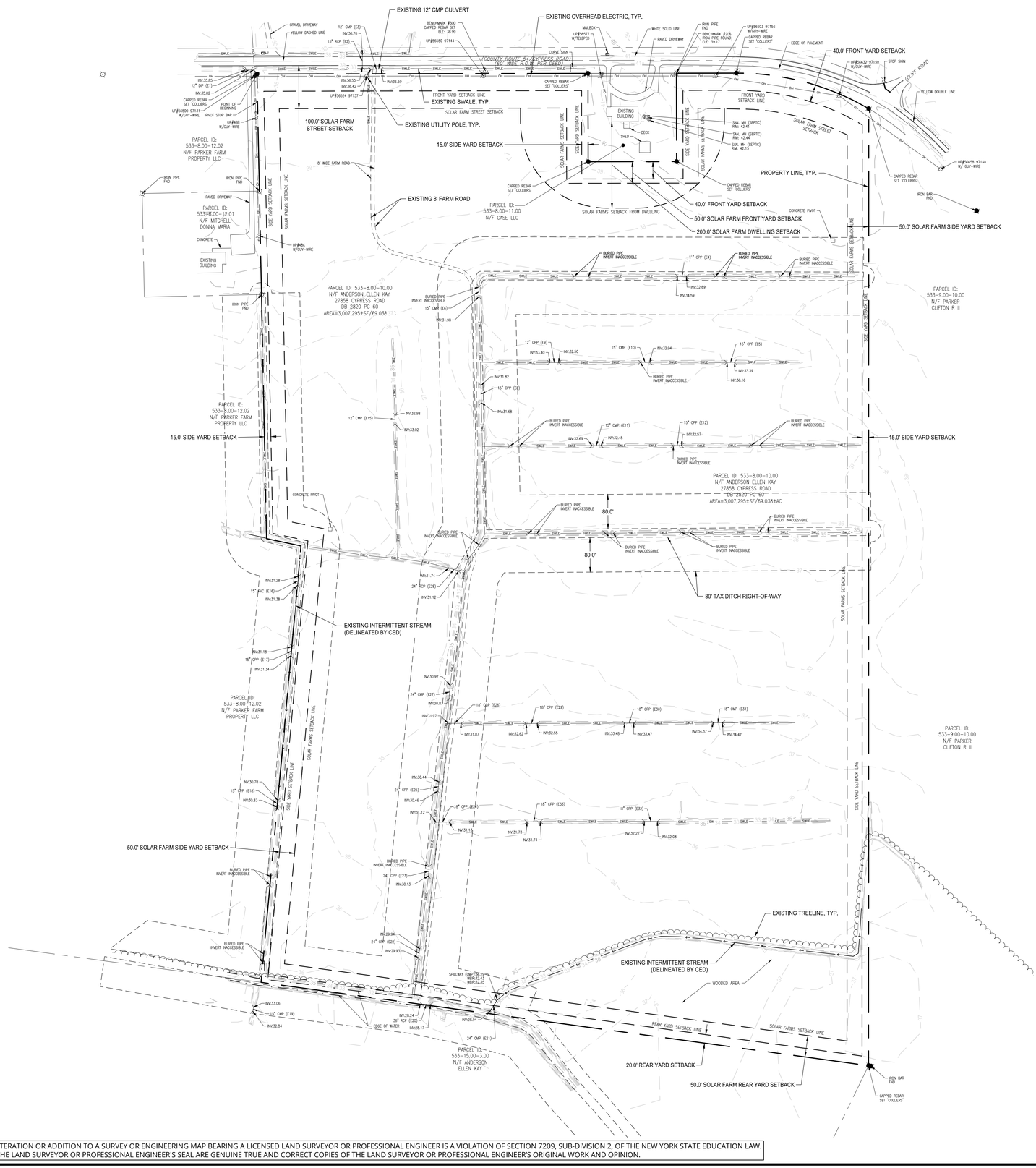
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SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	5/31/2024	JL	WD

PROJECT NUMBER:	DRAWING NAME:
23013689A	C001

SHEET TITLE:
GENERAL NOTES

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



SITE LEGEND:

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- PROPERTY SETBACK LINE
- PROPOSED LEASE LINE
- PROPOSED ACCESS/UTILITY EASEMENT
- RIGHT-OF-WAY (R.O.W.) LINE
- EXISTING TREELINE
- EDGE OF EXISTING GRAVEL DRIVEWAY
- EDGE OF EXISTING ROADWAY
- EXISTING STREAM
- EDGE OF WATER
- EXISTING SWALE
- STORM PIPE
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- CONTOUR - MAJOR
- CONTOUR - MINOR
- TAX DITCH RIGHT-OF-WAY
- EXISTING UTILITY POLE
- EXISTING ONE POST SIGN
- MONUMENT FOUND
- IRON BAR/CAPPED REBAR FOUND
- IRON PIPE/POST FOUND
- SANITARY MANHOLE
- INVERT OR INVERT WITH END SECTION
- EXISTING MAILBOX
- EXISTING GUY WIRE

0 120 240 360 FT

1" = 120' SCALE BAR

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ERIC REDDING LICENSE No. 20738 DELAWARE PROFESSIONAL ENGINEER

MAJOR SITE PLAN APPLICATION

FOR

RWE CLEAN ENERGY

PARCEL ID 533-8.00-10.00

27858 CYPRESS ROAD
TOWN OF FRANKFORD
SUSSEX COUNTY
DELAWARE

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PROJECT NUMBER:	DRAWING NAME:
23013689A	C002

SHEET TITLE:
EXISTING CONDITIONS PLAN

SHEET NUMBER:
3 of 17

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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

ssert Holdings, Inc\23013689A\4.0 Design\4.1 Civil\23013689A C002.dwg\C002 By: WDARBOUZE



SITE PLAN DATA TABLE

SITE IS LOCATED IN THE "AR-1" AGRICULTURAL RESIDENTIAL ZONING DISTRICT.		
PROPOSED USE: PUBLIC UTILITY - SOLAR ENERGY SYSTEM		
PARCEL 533-8.00-10.00 TOWN OF FRANKFORD, COUNTY OF SUSSEX STATE OF DELAWARE		
APPLICANT: RWE CLEAN ENERGY 100 SUMMIT LAKE DRIVE VALHALLA NY, 10595 (978) 888-4088	OWNER(S) OF RECORD: ANDERSON ELLEN KAY	
PLANS PREPARED BY: COLLIERS ENGINEERING & DESIGN 18 CORPORATE WOODS BLVD, 4TH FLOOR ALBANY, NY 12211 (518) 862-0325		
DESCRIPTION	REQUIRED	PROPOSED
MIN. LOT SIZE	32,670 SF	3,007,295± SF
MIN. LOT WIDTH	100 FT	1,417± FT
MIN. LOT DEPTH	100 FT	2,301± FT
MIN. SIDE YARD SETBACK	15 FT	75 FT
MIN. FRONT YARD SETBACK	40 FT	994± FT
MIN. REAR YARD SETBACK	20 FT	92 FT
MAX. PANEL HEIGHT	42 FT	12± FT
MAX. LOT COVERAGE (INCLUDING PANELS)	N/A	11.0± %
CONDITIONAL USE AREA	24.52± ACRES	
AREA OUTSIDE OF CONDITIONAL USE AREA	44.51± ACRES	

SITE LEGEND:

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- PROPERTY SETBACK LINE
- RIGHT-OF-WAY (R.O.W.) LINE
- EXISTING TREELINE
- EDGE OF EXISTING GRAVEL DRIVEWAY
- EDGE OF EXISTING ROADWAY
- EXISTING STREAM
- EDGE OF WATER
- EXISTING SWALE
- STORM PIPE
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- TAX DITCH RIGHT-OF-WAY
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED PERIMETER FENCE
- PROPOSED LEASE LINE
- PROPOSED ACCESS/UTILITY EASEMENT
- PROPOSED GRASS CHANNEL
- PROPOSED LIMITS OF CONDITIONAL USE AREA
- PROPOSED DIRVEWAY
- TRACKER SOLAR PANELS
- PROPOSED ASPHALT APRON
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- EXISTING ONE POST SIGN
- MONUMENT FOUND
- IRON BAR/CAPPED REBAR FOUND
- IRON PIPE/POST FOUND
- SANITARY MANHOLE
- INVERT OR INVERT WITH END SECTION
- EXISTING MAILBOX
- EXISTING GUY WIRE

N

0 120 240 360 FT

1" = 120' SCALE BAR

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REV	DATE	DRAWN BY	DESCRIPTION

ERIC REDDING LICENSE No. 26736 DELAWARE PROFESSIONAL ENGINEER

MAJOR SITE PLAN APPLICATION
FOR
RWE CLEAN ENERGY

PARCEL ID 533-8.00-10.00

27858 CYPRESS ROAD
TOWN OF FRANKFORD
SUSSEX COUNTY
DELAWARE

Colliers Engineering & Design
ALBANY
18 Corporate Woods Blvd.
Suite 400
Albany, NY 12211
Phone: 518.862.0325
COLLIERS ENGINEERING & DESIGN CT, P.C.

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	5/31/2024	JL	WD

PROJECT NUMBER:	DRAWING NAME:
23013689A	C003

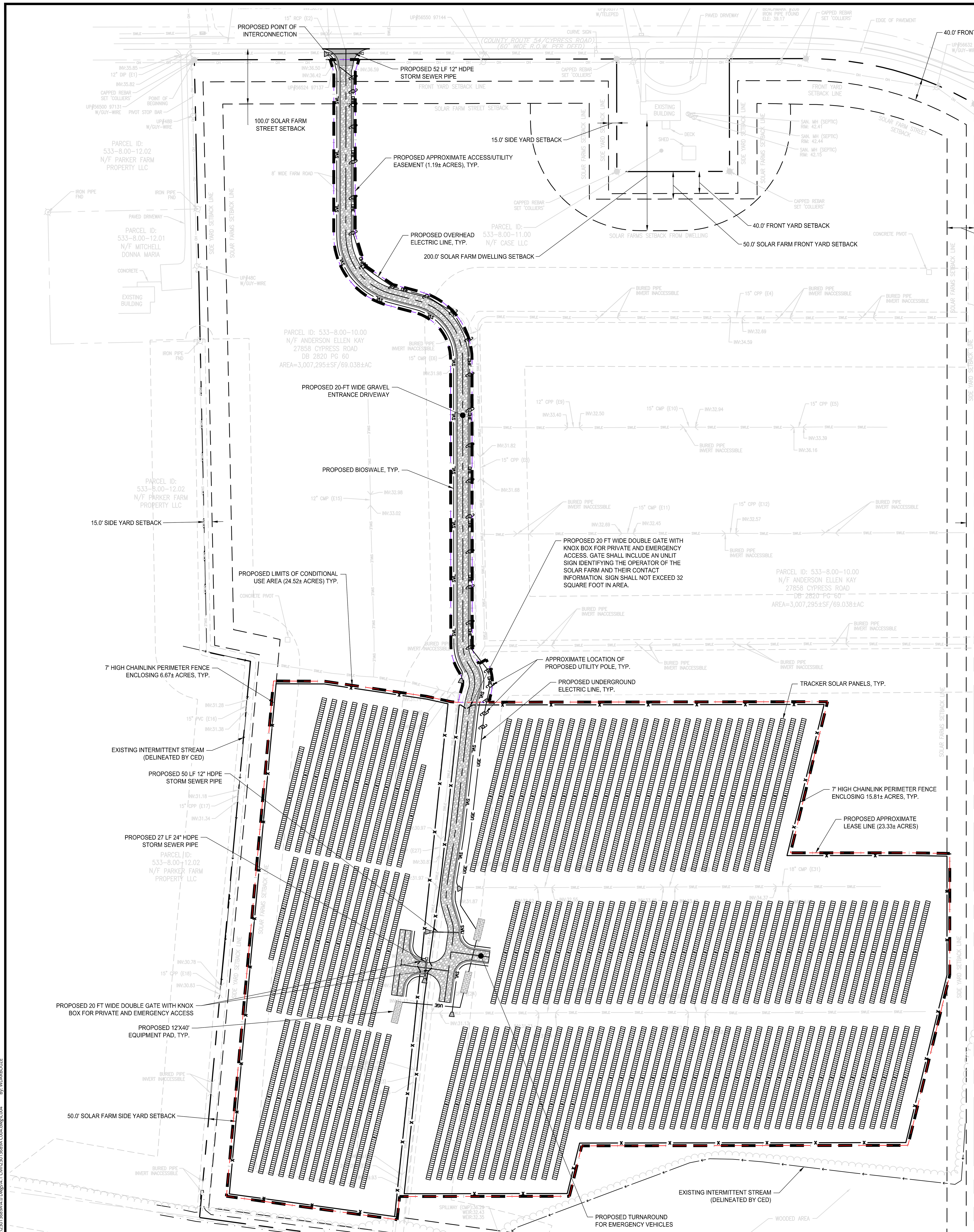
SHEET TITLE: OVERALL SITE PLAN

SHEET NUMBER: 4 of 17

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ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.

sset Holdings, Inc\23013689A\4.0 Dwgs\4.1 Civil\23013689A C003.dwg\C003 By:WDABROUZE

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SITE PLAN DATA TABLE

SITE IS LOCATED IN THE "AR-1" AGRICULTURAL RESIDENTIAL ZONING DISTRICT.

PROPOSED USE: PUBLIC UTILITY - SOLAR ENERGY SYSTEM

PARCEL 533-8.00-10.00
TOWN OF FRANKFORD, COUNTY OF SUSSEX
STATE OF DELAWARE

APPLICANT:
RWE CLEAN ENERGY
100 SUMMIT LAKE DRIVE
VALHALLA NY, 10595
(978) 888-4088

OWNER(S) OF RECORD:
ANDERSON ELLEN KAY

PLANS PREPARED BY:
COLLIERS ENGINEERING & DESIGN
18 CORPORATE WOODS BLVD, 4TH FLOOR
ALBANY, NY 12211
(518) 862-0325

DESCRIPTION	REQUIRED	PROPOSED
MIN. LOT SIZE	32,670 SF	3,007,295± SF
MIN. LOT WIDTH	100 FT	1,417± FT
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MIN. REAR YARD SETBACK	20 FT	92 FT
MAX. PANEL HEIGHT	42 FT	12± FT
MAX. LOT COVERAGE (INCLUDING PANELS)	N/A	11.0± %

CONDITIONAL USE AREA 24.52± ACRES

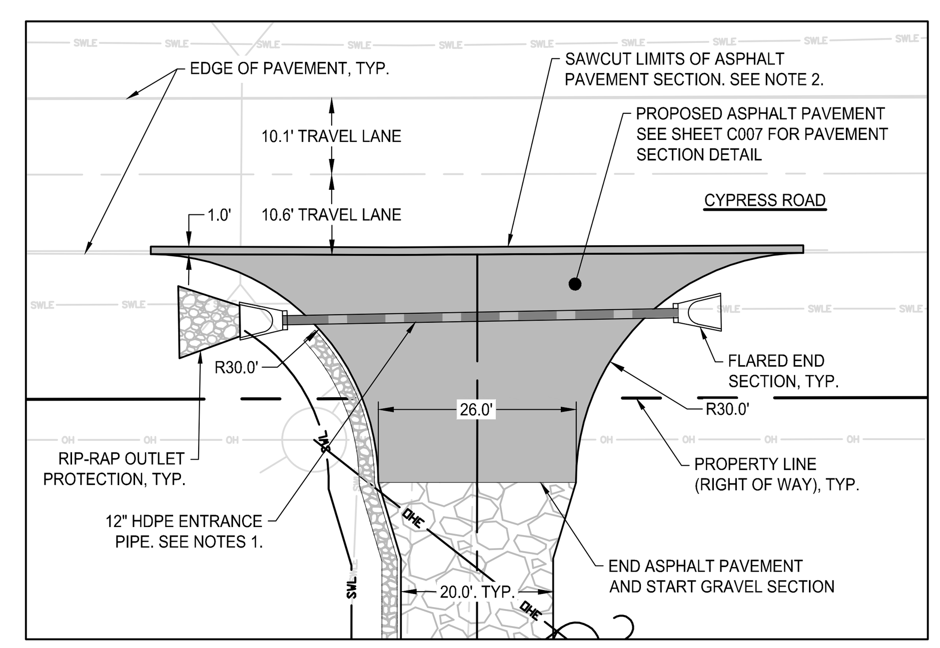
AREA OUTSIDE OF CONDITIONAL USE AREA 44.51± ACRES

SITE LEGEND:

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- PROPERTY SETBACK LINE
- RIGHT-OF-WAY (R.O.W.) LINE
- EXISTING TREELINE
- EDGE OF EXISTING GRAVEL DRIVEWAY
- EDGE OF EXISTING ROADWAY
- EXISTING STREAM
- EDGE OF WATER
- EXISTING SWALE
- STORM PIPE
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- TAX DITCH RIGHT-OF-WAY
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED UNDERGROUND ELECTRIC
- PROPOSED PERIMETER FENCE
- PROPOSED LEASE LINE
- PROPOSED ACCESS/UTILITY EASEMENT
- PROPOSED GRASS CHANNEL
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- EXISTING UTILITY POLE
- EXISTING ONE POST SIGN
- MONUMENT FOUND
- IRON BAR/CAPPED REBAR FOUND
- IRON PIPE/POST FOUND
- SANITARY MANHOLE
- INVERT OR INVERT WITH END SECTION
- EXISTING MAILBOX
- EXISTING GUY WIRE

FIRE NOTES:

1. NO WATER SERVICE IS REQUIRED OR PROPOSED FOR THE PROPOSED PROJECT.
2. ALL FIRE LANES, FIRE HYDRANTS, AND FIRE DEPARTMENT CONNECTIONS SHALL BE MARKED IN ACCORDANCE WITH THE STATE FIRE PREVENTION REGULATIONS



DRIVEWAY ENTRANCE DETAIL

SCALE: 1"=20'

1" = 20' SCALE BAR

NOTES:

1. USE PIPE MATERIALS AS SPECIFIED IN DELDOT DESIGN GUIDANCE MEMORANDUM NUMBER 1-20. THE LONGITUDINAL SLOPE FROM THE ENTRANCE PAVEMENT TO THE TOP OF THE PIPE SHALL BE 6:1. THE MINIMUM PIPE SIZE SHALL BE 12".
2. WHEN AN ASPHALT PAVEMENT SECTION IS PROPOSED, THE EXISTING FRONTAGE ROAD PAVEMENT SHALL BE SAWCUT 1' INSIDE THE EDGE OF PAVEMENT. THE TIE-IN SHALL BE DONE PER THE ASPHALT PAVEMENT TIE-IN DETAIL.
3. IF STORMWATER RUNOFF FROM THE SITE DOES NOT DISCHARGE INTO STATE RIGHT-OF-WAY DURING PRE EXISTING CONDITIONS. DELDOT WILL NOT ALLOW THE OUTFLOW TO DISCHARGE INTO THE STATE RIGHT-OF-WAY FOR POST CONDITIONS.

1" = 100' SCALE BAR

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REV	DATE	DRAWN BY	DESCRIPTION

ERIC REDDING LICENSE No. 26736 DELAWARE PROFESSIONAL ENGINEER

MAJOR SITE PLAN APPLICATION
FOR
RWE CLEAN ENERGY

PARCEL ID 533-8.00-10.00

27858 CYPRESS ROAD
TOWN OF FRANKFORD
SUSSEX COUNTY
DELAWARE

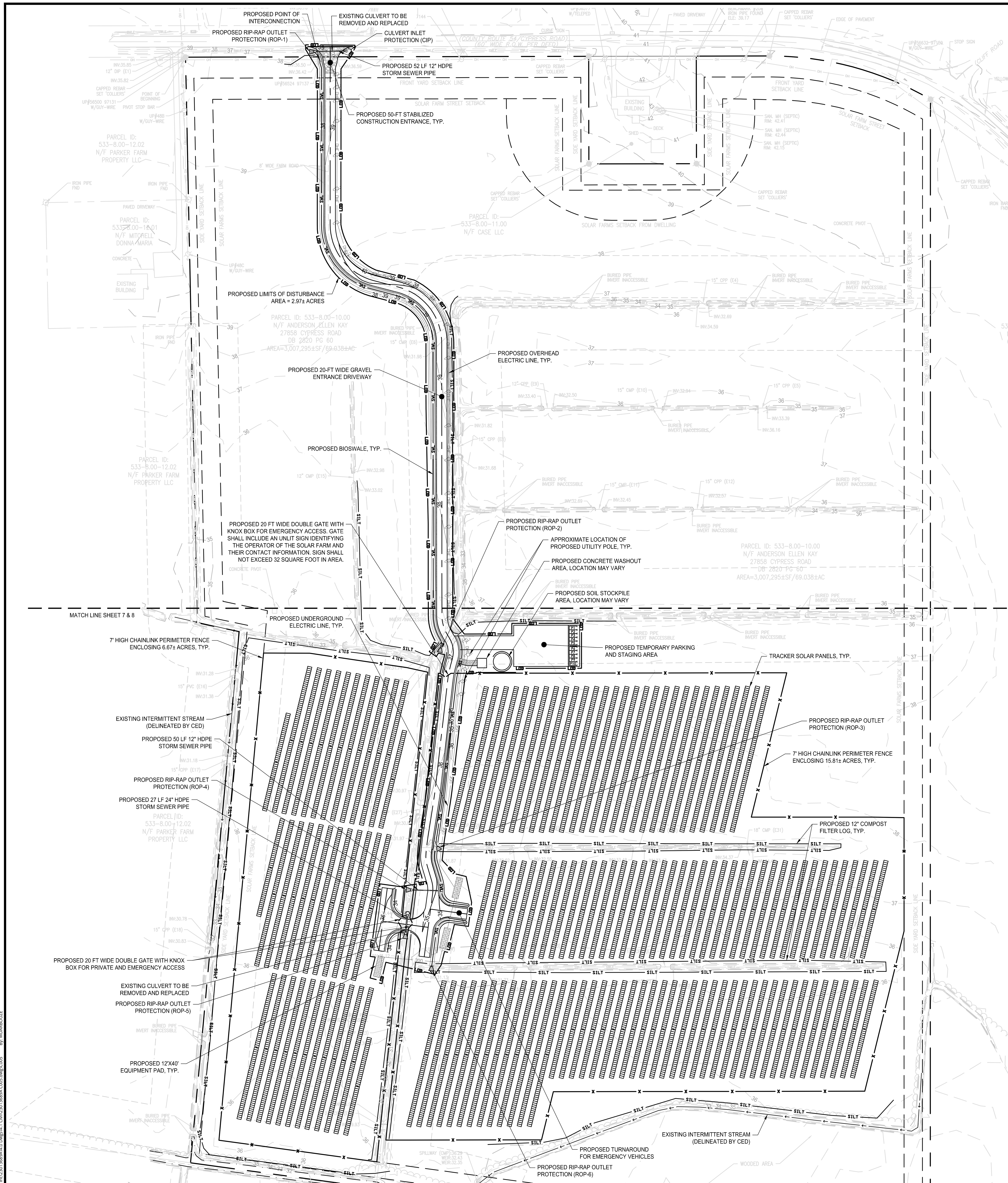
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ALBANY
18 Corporate Woods Blvd.
Suite 400
Albany, NY 12211
Phone: 518.862.0325
COLLIERS ENGINEERING & DESIGN CT, P.C.

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	5/31/2024	JL	WD

PROJECT NUMBER:	DRAWING NAME:
23013689A	C004

SHEET TITLE: SITE PLAN

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.

SEQUENCE OF CONSTRUCTION NOTES:

1. NOTIFY THE DNREC SEDIMENT AND STORMWATER PROGRAM AND SUSSEX COUNTY CONSERVATION DISTRICT IN WRITING AT LEAST FIVE (5) DAYS PRIOR TO TO THE START OF CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED AND CONDUCTED WITH THE THE SUSSEX COUNTY CONSERVATION DISTRICT CONSTRUCTION SITE REVIEWER. THE LANDOWNER/DEVELOPER, CONTRACTOR AND THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING; THE DESIGNER IS RECOMMENDED TO ATTEND.
3. CLEARING AND GRUBBING FOR THE AREAS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.
4. CONSTRUCTION OF PERIMETER CONTROLS. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
5. PREPARE SITE FOR CONSTRUCTION. ROUGH GRADING. STRIPPING AND STOCKPILING TOPSOIL. AREAS THAT WILL NOT BE FURTHER DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE STOCKPILED IN THE AREAS SHOWN ON THE DRAWINGS, LEVELED ON SITE, OR DISPOSED OF OFF-SITE IN A LEGAL MANNER. STOCKPILES SHALL BE TEMPORARILY STABILIZED WITH SILT FENCE AND/OR TEMPORARY SEEDING.
6. INSTALL PROPOSED GRAVEL DRIVEWAY AND SOLAR PANELS.
7. GRADE PROPOSED BIOSWALE.
8. MAINTENANCE OF CONSTRUCTION SITE STORMWATER MANAGEMENT BMPS. THE CON TRACTOR SHOULD AT ALL TIMES PROTECT AGAINST SEDIMENT AND DEVRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHOULD BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT SHOULD BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY ANY AGENCY CONSTRUCTION SITE REVIEWER.
9. UNDERGROUND UTILITIES. EXCAVATED MATERIAL FOR UTILITIES SHALL EITHER BE LEVELED ON SITE, OR DISPOSED OF OFF-SITE IN A LEGAL MANNER.
10. FINAL GRADING: REMAINING AREAS SHALL BE SEEDED AND MULCHED WITHIN 5 DAYS OF FINAL GRADING.
11. INSTALL PERIMETER FENCING.
12. TEMPORARY SOIL EROSION CONTROL MEASURES ARE TO BE REMOVED WHEN PERMANENT MEASURES ARE IN PLACE AND THE AREA IS STABILIZED.
13. THE TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL REQUIRE SUBMISSION AND ACCEPTANCE OF THE POST CONSTRUCTION VERIFICATION DOCUMENTS, INCLUDING FINAL STABILIZATION THROUGHOUT THE SITE, ALL ELEMENTS OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN IMPLEMENTED, AND ACCEPTANCE OF THE FINAL OPERATION AND MAINTENANCE PLAN.

CONTINUED MAINTENANCE OF ALL PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE OWNER, CON EDISON DEVELOPMENT, INC. MAINTENANCE RESPONSIBILITIES SHALL BECOME A PART OF ANY SALES OR EXCHANGE AGREEMENT FOR THE LAND ON WHICH THE PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE LOCATED.

MISCELLANEOUS NOTES

1. THE EXISTING AGRICULTURAL FIELD MAY HAVE UNDERLYING AGRICULTURAL FIELD TILES FOR DRAINAGE PURPOSES. CONTRACTOR SHALL PROCEED WITH CARE IF FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION. FIELD TILES SHALL BE REPAIRED AND REPLACED IN KIND IF DAMAGED DURING CONSTRUCTION.

DNREC GENERAL NOTES:

1. THE DEPARTMENT OR DELEGATED AGENCY SHALL BE NOTIFIED IN WRITING 5 DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. REVIEW AND/OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATION, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
3. FOLLOWING SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
4. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
5. AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHOULD BE APPROVED BY THE DEPARTMENT'S WELL PERMITS BRANCH.
6. POST CONSTRUCTION VERIFICATION DOCUMENTS SHALL BE SUBMITTED TO THE DEPARTMENT OR DELEGATED AGENCY WITHIN 60-DAYS OF STORMWATER MANAGEMENT FACILITY COMPLETION.
7. THE NOTICE OF INTENT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT FOR THIS PROJECT IS # (TO BE FILLED IN ONCE RECEIVED). THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY THE DEPARTMENT.
8. THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT.
9. THE CONTRACTOR SHALL AT ALL TIMES PROTECT AGAINST SEDIMENT AND DEBRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHALL BE CHECKED DAILY AND ADJUSTED OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY THE AGENCY CONSTRUCTION SITE REVIEWER.

SITE LEGEND:

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- PROPERTY SETBACK LINE
- RIGHT-OF-WAY (R.O.W.) LINE
- EXISTING TREELINE
- EDGE OF EXISTING GRAVEL DRIVEWAY
- EDGE OF EXISTING ROADWAY
- EXISTING STREAM
- EDGE OF WATER
- SWLE — EXISTING SWALE
- ST — STORM PIPE
- X — EXISTING FENCE
- OH — EXISTING OVERHEAD ELECTRIC
- TAX DITCH RIGHT-OF-WAY
- OHE — PROPOSED OVERHEAD ELECTRIC
- UGE — PROPOSED UNDERGROUND ELECTRIC
- X — PROPOSED PERIMETER FENCE
- PROPOSED LEASE LINE
- PROPOSED ACCESS/UTILITY EASEMENT
- LOD — LIMITS OF DISTURBANCE
- SILT — COMPOST FILTER LOG
- SWL — PROPOSED GRASS CHANNEL
- PROPOSED CONTOUR - MAJOR
- PROPOSED CONTOUR - MINOR
- EXISTING CONTOUR - MAJOR
- EXISTING CONTOUR - MINOR
- PROPOSED LIMITS OF CONDITIONAL USE AREA
- PROPOSED DIRVEWAY
- PROPOSED ASPHALT APRON
- TRACKER SOLAR PANELS
- PROPOSED CULVERT AND FLARED END SECTION
- PROPOSED UTILITY POLE
- EXISTING UTILITY POLE
- EXISTING ONE POST SIGN
- MONUMENT FOUND
- IRON BAR/CAPPED REBAR FOUND
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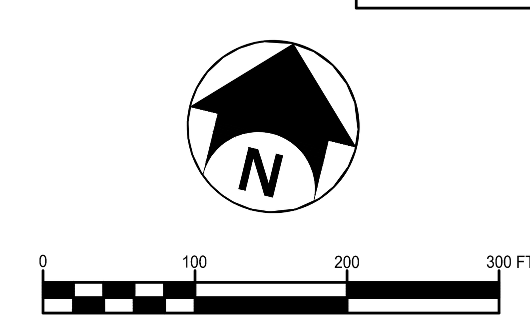
OWNER/DEVELOPER CERTIFICATION

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED STANDARD PLAN AND THAT RESPONSIBLE PERSONNEL (I,E, BLUE CARD HOLDER) INCOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING PRIOR TO INITIATION OF THE PROJECT, AT A DNREC SPONSORED OR APPROVED TRAINING COURSE FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. IN ADDITION, I GRANT THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE RELEVANT DELEGATED AGENCY THE RIGHT TO CONDUCT ON-SITE REVIEWS.

OWNER/DEVELOPER:
RWE CLEAN ENERGY
100 SUMMIT LAKE DRIVE
VALHALLA, NY 10595

OWNER/DEVELOPER SIGNATURE ______ DATE ______

OWNER/DEVELOPER NAME AND TITLE (PRINTED OR TYPED) ______



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REV	DATE	DRAWN BY	DESCRIPTION

ERIC REDDING LICENSE No. 26736 DELAWARE PROFESSIONAL ENGINEER

MAJOR SITE PLAN APPLICATION
FOR
RWE CLEAN ENERGY

PARCEL ID 533-8.00-10.00

27858 CYPRESS ROAD
TOWN OF FRANKFORD
SUSSEX COUNTY
DELAWARE

Colliers Engineering & Design
ALBANY
18 Corporate Woods Blvd.
Suite 400
Albany, NY 12211
Phone: 518.862.0325
COLLIERS ENGINEERING & DESIGN CT, P.C.

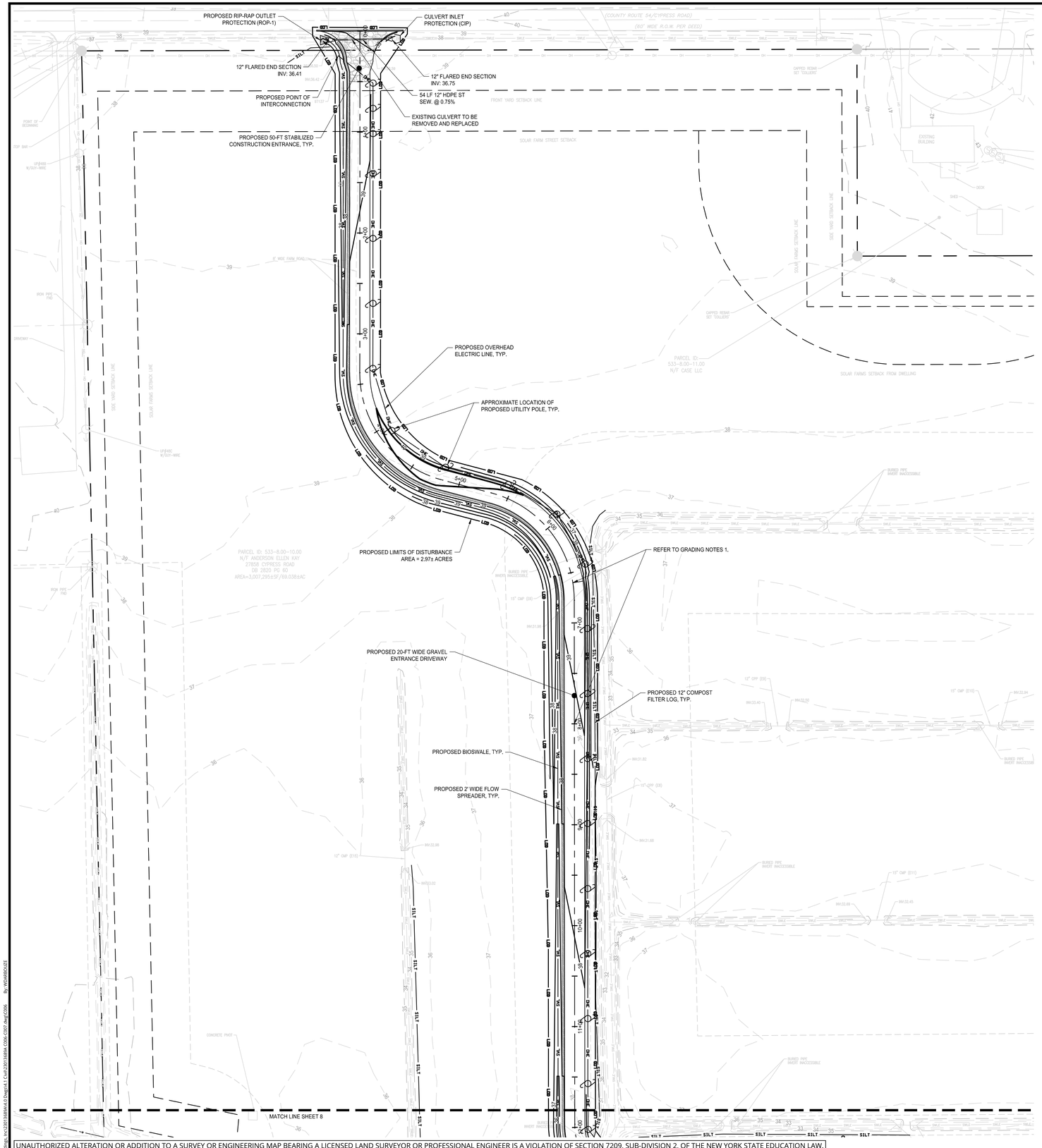
SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	5/31/2024	JL	WD

PROJECT NUMBER:	DRAWING NAME:
23013689A	C005

SHEET TITLE: OVERALL CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

sset Holdings, Inc\23013689A\4.0 Dwgs\4.1 Civil\23013689A C005.dwg\C005 By: WDARBOUZE



SEQUENCE OF CONSTRUCTION NOTES:

1. NOTIFY THE DNREC SEDIMENT AND STORMWATER PROGRAM AND SUSSEX COUNTY CONSERVATION DISTRICT IN WRITING AT LEAST FIVE (5) DAYS PRIOR TO TO THE START OF CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED AND CONDUCTED WITH THE THE SUSSEX COUNTY CONSERVATION DISTRICT CONSTRUCTION SITE REVIEWER, THE LANDOWNER/DEVELOPER, CONTRACTOR AND THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING; THE DESIGNER IS RECOMMENDED TO ATTEND.
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5. PREPARE SITE FOR CONSTRUCTION. ROUGH GRADING, STRIPPING AND STOCKPILING TOPSOIL. AREAS THAT WILL NOT BE FURTHER DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE STOCKPILED IN THE AREAS SHOWN ON THE DRAWINGS, LEVELED ON SITE, OR DISPOSED OF OFF-SITE IN A LEGAL MANNER. STOCKPILES SHALL BE TEMPORARILY STABILIZED WITH SILT FENCE AND/OR TEMPORARY SEEDING.
6. INSTALL PROPOSED GRAVEL DRIVEWAY AND SOLAR PANELS.
7. GRADE PROPOSED BIOSWALE.
8. MAINTENANCE OF CONSTRUCTION SITE STORMWATER MANAGEMENT BMPS. THE CON TRACTOR SHOULD AT ALL TIMES PROTECT AGAINST SEDIMENT AND DEVRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHOULD BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT SHOULD BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY ANY AGENCY CONSTRUCTION SITE REVIEWER.
9. UNDERGROUND UTILITIES. EXCAVATED MATERIAL FOR UTILITIES SHALL EITHER BE LEVELED ON SITE, OR DISPOSED OF OFF-SITE IN A LEGAL MANNER.
10. FINAL GRADING: REMAINING AREAS SHALL BE SEEDED AND MULCHED WITHIN 5 DAYS OF FINAL GRADING.
11. INSTALL PERIMETER FENCING.
12. TEMPORARY SOIL EROSION CONTROL MEASURES ARE TO BE REMOVED WHEN PERMANENT MEASURES ARE IN PLACE AND THE AREA IS STABILIZED.
13. THE TERMINATION OF THE CONSTRUCTION GENERAL PERMIT WILL REQUIRE SUBMISSION AND ACCEPTANCE OF THE POST CONSTRUCTION VERIFICATION DOCUMENTS, INCLUDING FINAL STABILIZATION THROUGHOUT THE SITE. ALL ELEMENTS OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN IMPLEMENTED, AND ACCEPTANCE OF THE FINAL OPERATION AND MAINTENANCE PLAN.

CONTINUED MAINTENANCE OF ALL PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE OWNER, CON EDISON DEVELOPMENT, INC. MAINTENANCE RESPONSIBILITIES SHALL BECOME A PART OF ANY SALES OR EXCHANGE AGREEMENT FOR THE LAND ON WHICH THE PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE LOCATED.

MISCELLANEOUS NOTES

1. THE EXISTING AGRICULTURAL FIELD MAY HAVE UNDERLYING AGRICULTURAL FIELD TILES FOR DRAINAGE PURPOSES. CONTRACTOR SHALL PROCEED WITH CARE IF FIELD TILES ARE ENCOUNTERED DURING CONSTRUCTION. FIELD TILES SHALL BE REPAIRED AND REPLACED IN KIND IF DAMAGED DURING CONSTRUCTION.

DNREC GENERAL NOTES:

1. THE DEPARTMENT OR DELEGATED AGENCY SHALL BE NOTIFIED IN WRITING 5 DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. REVIEW AND/OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATION, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
3. FOLLOWING SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
4. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
5. AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHOULD BE APPROVED BY THE DEPARTMENT'S WELL PERMITS BRANCH.
6. POST CONSTRUCTION VERIFICATION DOCUMENTS SHALL BE SUBMITTED TO THE DEPARTMENT OR DELEGATED AGENCY WITHIN 60-DAYS OF STORMWATER MANAGEMENT FACILITY COMPLETION.
7. THE NOTICE OF INTENT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT FOR THIS PROJECT IS # (TO BE FILLED IN ONCE RECEIVED), THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY THE DEPARTMENT.
8. THE OWNER SHALL BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT.
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GRADING NOTES:

1. CONTRACTOR TO GRADE GRAVEL ENTRANCE DRIVEWAY SIDE SLOPE AT 2:1 FROM STATION 6+60 TO 8+00.
2. GRAVEL ENTRANCE DRIVEWAY LONGITUDINAL SLOPE TO TRANSITION FROM EAST - WEST TO WEST - EAST FROM STATION 12+34 TO 12+44.

SITE LEGEND:

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- ADJACENT PROPERTY LINE
- PROPERTY SETBACK LINE
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OWNER/DEVELOPER CERTIFICATION

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED STANDARD PLAN AND THAT RESPONSIBLE PERSONNEL (I.E. BLUE CARD HOLDER) INCOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING PRIOR TO INITIATION OF THE PROJECT, AT A DNREC SPONSORED OR APPROVED TRAINING COURSE FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. IN ADDITION, I GRANT THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE RELEVANT DELEGATED AGENCY THE RIGHT TO CONDUCT ON-SITE REVIEWS.

OWNER/DEVELOPER
RWE CLEAN ENERGY
100 SUMMIT LAKE DRIVE
VALHALLA, NY 10595

Joe Shanahan — 5/31/2024
OWNER/DEVELOPER SIGNATURE — DATE

Joe Shanahan, SENIOR PROJECT MANAGER
OWNER/DEVELOPER NAME AND TITLE (PRINTED OR TYPED)

0 50 100 150 FT
1" = 50' SCALE BAR

CALL BEFORE YOU DIG !
DELAWARE LAW REQUIRES NOTICE AT LEAST 2 FULL WORKING DAYS, BUT NOT MORE THAN 10 FULL WORKING DAYS, BEFORE EXCAVATION IS SCHEDULED TO BEGIN.
Dig|Safely. Delaware
1-800-282-8555

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW. ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.

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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALL811.COM

REV	DATE	DRAWN BY	DESCRIPTION

ERIC REEDING — LICENSE — No. 26736 — DELAWARE — PROFESSIONAL ENGINEER

MAJOR SITE PLAN APPLICATION
FOR
RWE CLEAN ENERGY

PARCEL ID 533-8.00-10.00

27858 CYPRESS ROAD
TOWN OF FRANKFORD
SUSSEX COUNTY
DELAWARE

Colliers Engineering & Design
ALBANY
18 Corporate Woods Blvd.
Suite 400
Albany, NY 12211
Phone: 518.862.0325
COLLIERS ENGINEERING & DESIGN CT, P.C.

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	5/31/2024	JL	WD

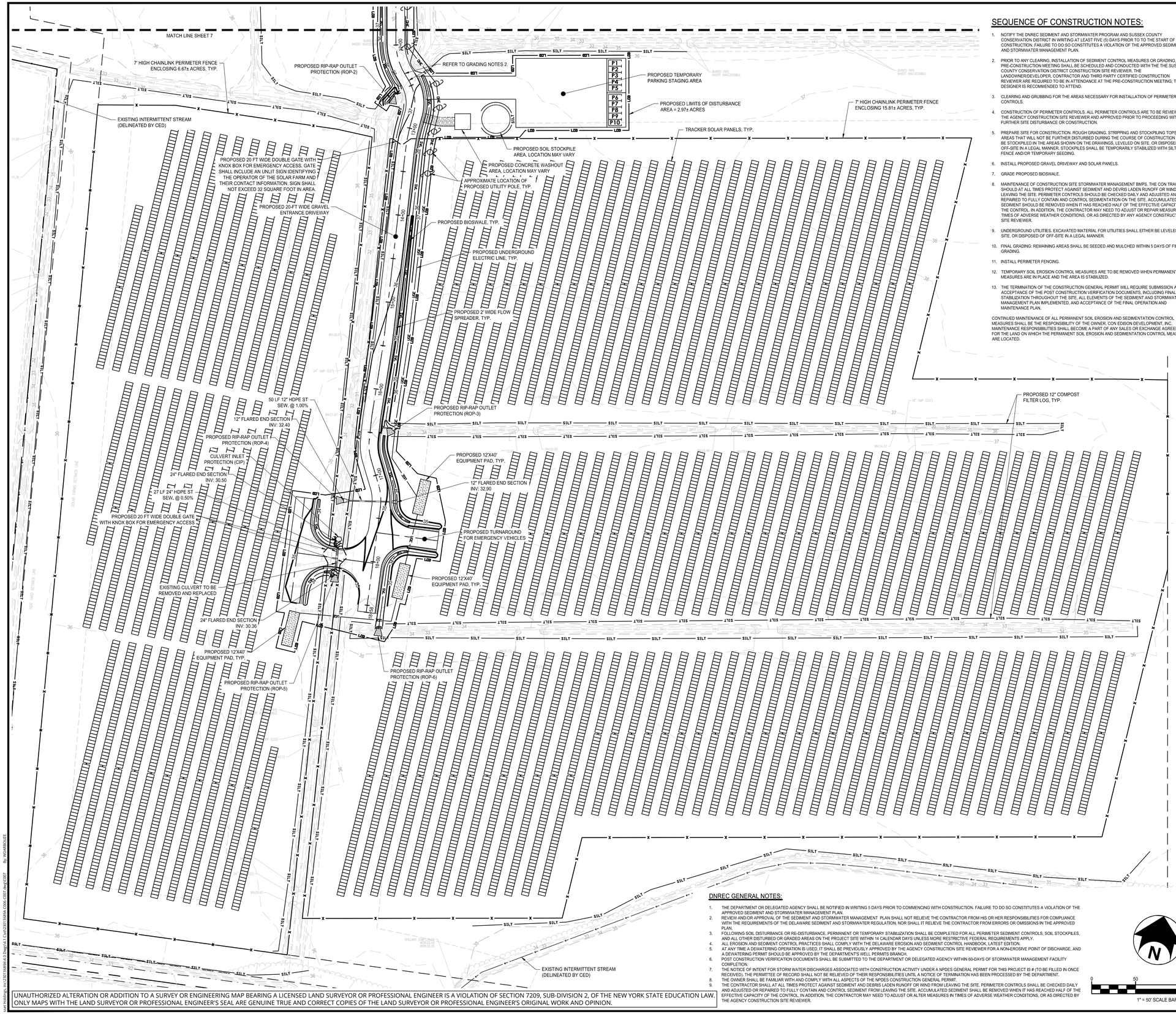
PROJECT NUMBER:	DRAWING NAME:
23013689A	C006

SHEET TITLE:
CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN I

SHEET NUMBER:
7 of 17

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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SEQUENCE OF CONSTRUCTION NOTES:

1. NOTIFY THE DNREC SEDIMENT AND STORMWATER PROGRAM AND SUSSEX COUNTY CONSERVATION DISTRICT IN WRITING AT LEAST FIVE (5) DAYS PRIOR TO TO THE START OF CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. PRIOR TO ANY CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES OR GRADING, A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED AND CONDUCTED WITH THE THE SUSSEX COUNTY CONSERVATION DISTRICT CONSTRUCTION SITE REVIEWER. THE LANDOWNER/DEVELOPER, CONTRACTOR AND THIRD PARTY CERTIFIED CONSTRUCTION REVIEWER ARE REQUIRED TO BE IN ATTENDANCE AT THE PRE-CONSTRUCTION MEETING; THE DESIGNER IS RECOMMENDED TO ATTEND.
3. CLEARING AND GRUBBING FOR THE AREAS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS.
4. CONSTRUCTION OF PERIMETER CONTROLS. ALL PERIMETER CONTROLS ARE TO BE REVIEWED BY THE AGENCY CONSTRUCTION SITE REVIEWER AND APPROVED PRIOR TO PROCEEDING WITH FURTHER SITE DISTURBANCE OR CONSTRUCTION.
5. PREPARE SITE FOR CONSTRUCTION. ROUGH GRADING. STRIPPING AND STOCKPILING TOPSOIL. AREAS THAT WILL NOT BE FURTHER DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE STOCKPILED IN THE AREAS SHOWN ON THE DRAWINGS, LEVELED ON SITE, OR DISPOSED OF OFF-SITE IN A LEGAL MANNER. STOCKPILES SHALL BE TEMPORARILY STABILIZED WITH SILT FENCE AND/OR TEMPORARY SEEDING.
6. INSTALL PROPOSED GRAVEL DRIVEWAY AND SOLAR PANELS.
7. GRADE PROPOSED BIOSWALE.
8. MAINTENANCE OF CONSTRUCTION SITE STORMWATER MANAGEMENT BMPS. THE CON TRACTOR SHOULD AT ALL TIMES PROTECT AGAINST SEDIMENT AND DEVRIS LADEN RUNOFF OR WIND FROM LEAVING THE SITE. PERIMETER CONTROLS SHOULD BE CHECKED DAILY AND ADJUSTED AND/OR REPAIRED TO FULLY CONTAIN AND CONTROL SEDIMENTATION ON THE SITE. ACCUMULATED SEDIMENT SHOULD BE REMOVED WHEN IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. IN ADDITION, THE CONTRACTOR MAY NEED TO ADJUST OR REPAIR MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS, OR AS DIRECTED BY ANY AGENCY CONSTRUCTION SITE REVIEWER.
9. UNDERGROUND UTILITIES. EXCAVATED MATERIAL FOR UTILITIES SHALL EITHER BE LEVELED ON SITE, OR DISPOSED OF OFF-SITE IN A LEGAL MANNER.
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MISCELLANEOUS NOTES

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GRADING NOTES:

1. CONTRACTOR TO GRADE GRAVEL ENTRANCE DRIVEWAY SIDE SLOPE AT 2:1 FROM STATION 6+60 TO 8+00.
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OWNER/DEVELOPER CERTIFICATION

I, THE UNDERSIGNED, CERTIFY THAT ALL LAND CLEARING, CONSTRUCTION AND DEVELOPMENT SHALL BE DONE PURSUANT TO THE APPROVED STANDARD PLAN AND THAT RESPONSIBLE PERSONNEL (I.E. BLUE CARD HOLDER) INCOLVED IN THE LAND DISTURBANCE WILL HAVE A CERTIFICATION OF TRAINING PRIOR TO INITIATION OF THE PROJECT, AT A DNREC SPONSORED OR APPROVED TRAINING COURSE FOR THE CONTROL OF EROSION AND SEDIMENT DURING CONSTRUCTION. IN ADDITION, I GRANT THE DNREC SEDIMENT AND STORMWATER PROGRAM AND/OR THE RELEVANT DELEGATED AGENCY THE RIGHT TO CONDUCT ON-SITE REVIEWS.

OWNER/DEVELOPER:
RWE CLEAN ENERGY
100 SUMMIT LAKE DRIVE
VALHALLA, NY 10595

Joe Shanahan — 5/31/2024
OWNER/DEVELOPER SIGNATURE — DATE

Joe Shanahan, SENIOR PROJECT MANAGER
OWNER/DEVELOPER NAME AND TITLE (PRINTED OR TYPED)

DNREC GENERAL NOTES:

1. THE DEPARTMENT OR DELEGATED AGENCY SHALL BE NOTIFIED IN WRITING 5 DAYS PRIOR TO COMMENCING WITH CONSTRUCTION. FAILURE TO DO SO CONSTITUTES A VIOLATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLAN.
2. REVIEW AND/OR APPROVAL OF THE SEDIMENT AND STORMWATER MANAGEMENT PLAN SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATION, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
3. FOLLOWING SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED FOR ALL PERIMETER SEDIMENT CONTROLS, SOIL STOCKPILES, AND ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WITHIN 14 CALENDAR DAYS UNLESS MORE RESTRICTIVE FEDERAL REQUIREMENTS APPLY.
4. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL COMPLY WITH THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
5. AT ANY TIME A DEWATERING OPERATION IS USED, IT SHALL BE PREVIOUSLY APPROVED BY THE AGENCY CONSTRUCTION SITE REVIEWER FOR A NON-EROSIVE POINT OF DISCHARGE, AND A DEWATERING PERMIT SHOULD BE APPROVED BY THE DEPARTMENT'S WELL PERMITS BRANCH.
6. POST CONSTRUCTION VERIFICATION DOCUMENTS SHALL BE SUBMITTED TO THE DEPARTMENT OR DELEGATED AGENCY WITHIN 60-DAYS OF STORMWATER MANAGEMENT FACILITY COMPLETION.
7. THE NOTICE OF INTENT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT FOR THIS PROJECT IS # (TO BE FILLED IN ONCE RECEIVED). THE PERMITTEE OF RECORD SHALL NOT BE RELIEVED OF THEIR RESPONSIBILITIES UNTIL A NOTICE OF TERMINATION HAS BEEN PROCESSED BY THE DEPARTMENT.
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0 50 100 150 FT
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REV	DATE	DRAWN BY	DESCRIPTION

ERIC REDDING — LICENSE — No. 26736 — DELAWARE — PROFESSIONAL ENGINEER

MAJOR SITE PLAN APPLICATION
FOR
RWE CLEAN ENERGY

PARCEL ID 533-8.00-10.00

27858 CYPRESS ROAD
TOWN OF FRANKFORD
SUSSEX COUNTY
DELAWARE

Colliers Engineering & Design
ALBANY
18 Corporate Woods Blvd
Suite 400
Albany, NY 12211
Phone: 518.862.0325
COLLIERS ENGINEERING & DESIGN CT, P.C.

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	5/31/2024	JL	WD

PROJECT NUMBER:	DRAWING NAME:
23013689A	C007

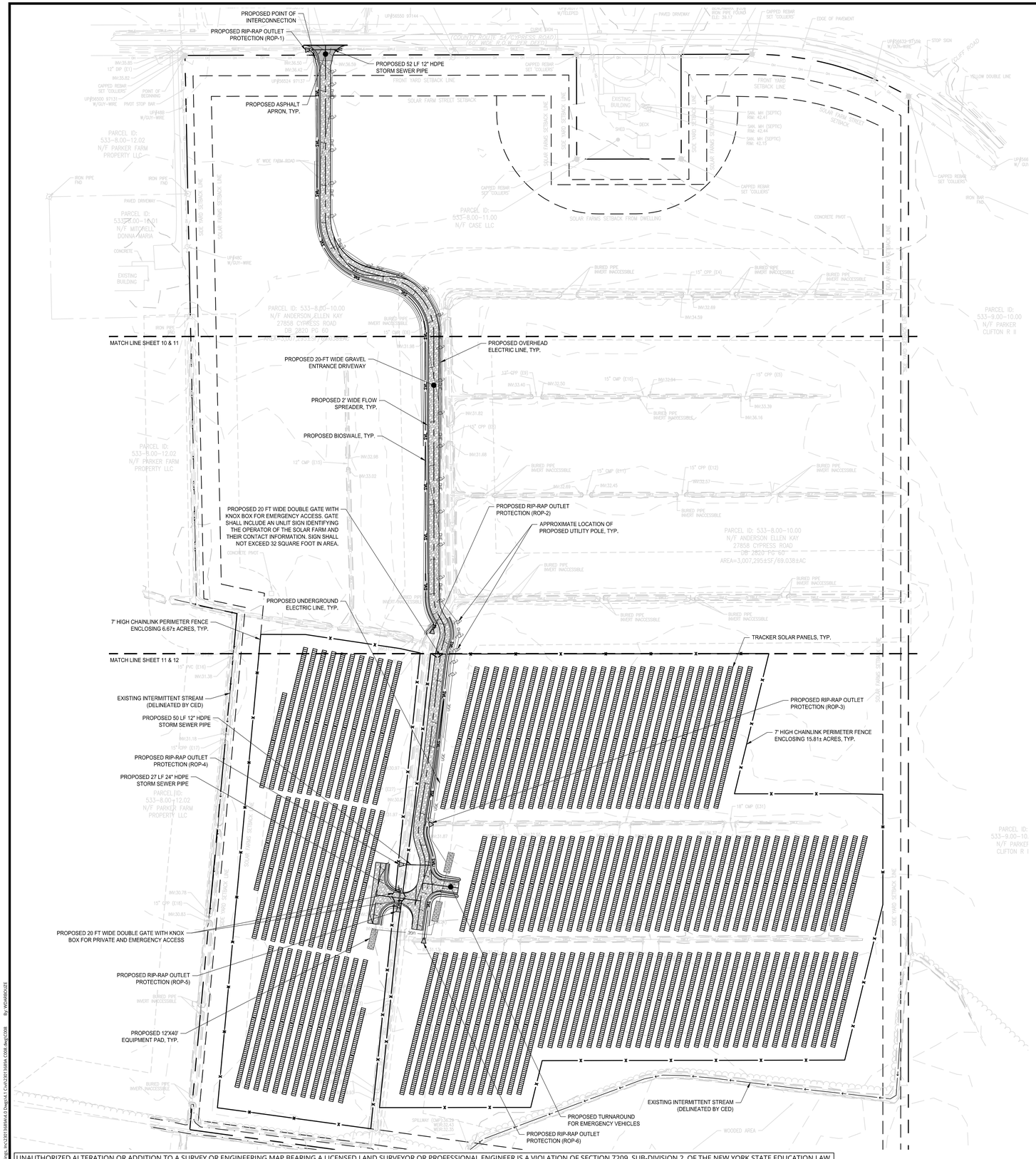
SHEET TITLE:
CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN II

SHEET NUMBER:
8 of 17

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xref: Holdings, Inc\23013689A\v4.0\Dwgs\4.1 Civil\23013689A C006-C007.dwg|C007 By: WDABROUZE



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- FLOW ARROW

OWNER/DEVELOPER CERTIFICATION

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OWNER/DEVELOPER:
RWE CLEAN ENERGY
100 SUMMIT LAKE DRIVE
VALHALLA, NY 10595

Joe Shanahan — 5/31/2024
OWNER/DEVELOPER SIGNATURE — DATE

Joe Shanahan, SENIOR PROJECT MANAGER
OWNER/DEVELOPER NAME AND TITLE (PRINTED OR TYPED)

N

0 100 200 300 FT
1" = 100' SCALE BAR

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REV	DATE	DRAWN BY	DESCRIPTION

ERIC REDDING LICENSE No. 26736 DELAWARE PROFESSIONAL ENGINEER

MAJOR SITE PLAN APPLICATION
FOR
RWE CLEAN ENERGY

PARCEL ID 533-8.00-10.00

27858 CYPRESS ROAD
TOWN OF FRANKFORD
SUSSEX COUNTY
DELAWARE

Colliers Engineering & Design
ALBANY
18 Corporate Woods Blvd.
Suite 400
Albany, NY 12211
Phone: 518.862.0325
COLLIERS ENGINEERING & DESIGN CT, P.C.

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	5/31/2024	JL	WD

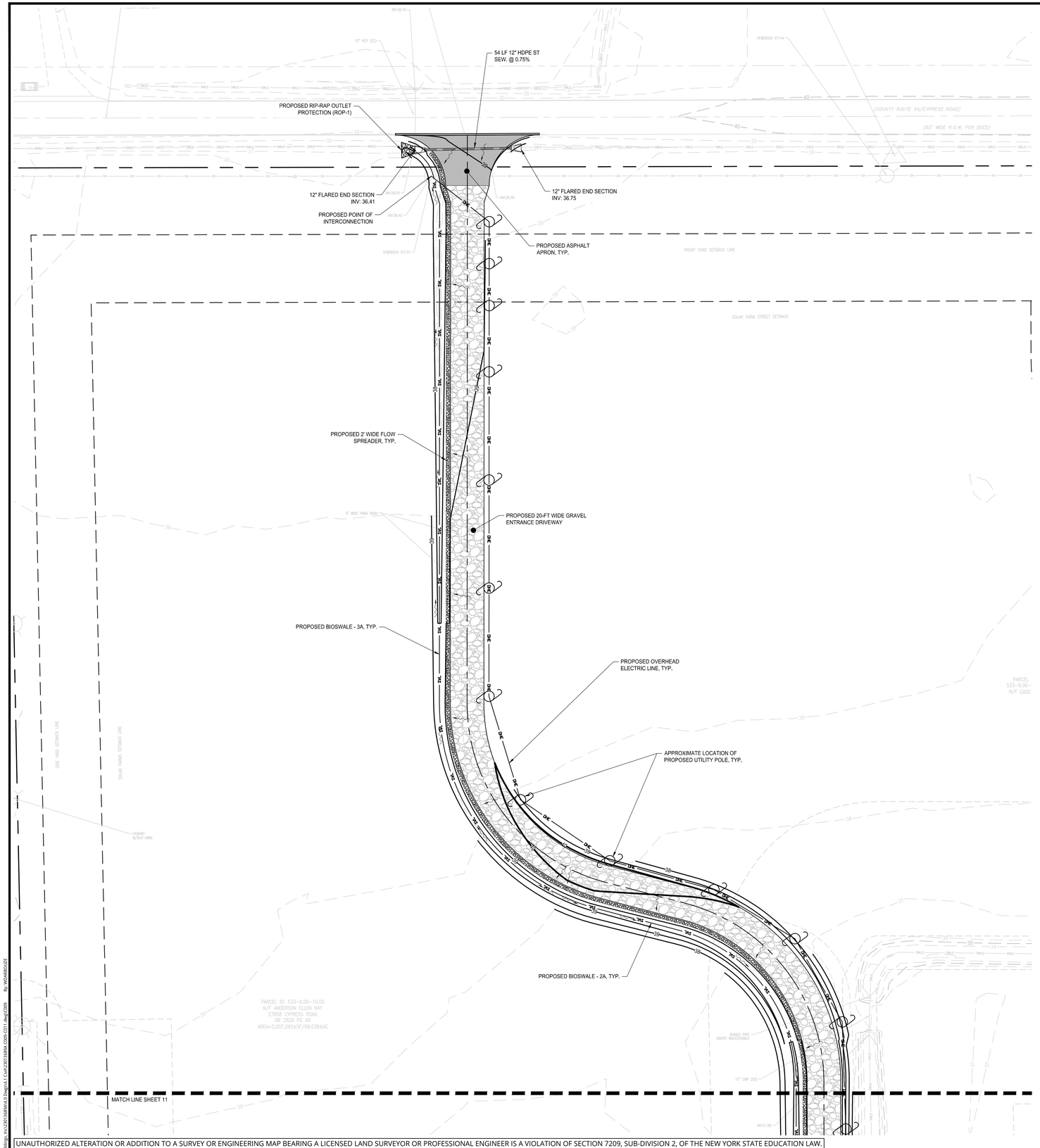
PROJECT NUMBER: 23013689A
DRAWING NAME: C008

SHEET TITLE:
OVERALL POST-CONSTRUCTION SITE SWM PLAN

SHEET NUMBER: 9 of 17

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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MISCELLANEOUS NOTES

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- EXISTING STREAM
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- EXISTING SWALE
- STORM PIPE
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC
- TAX DITCH RIGHT-OF-WAY
- PROPOSED OVERHEAD ELECTRIC
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- PROPOSED LEASE LINE
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MAJOR SITE PLAN APPLICATION

FOR

RWE CLEAN ENERGY

PARCEL ID 533-8.00-10.00

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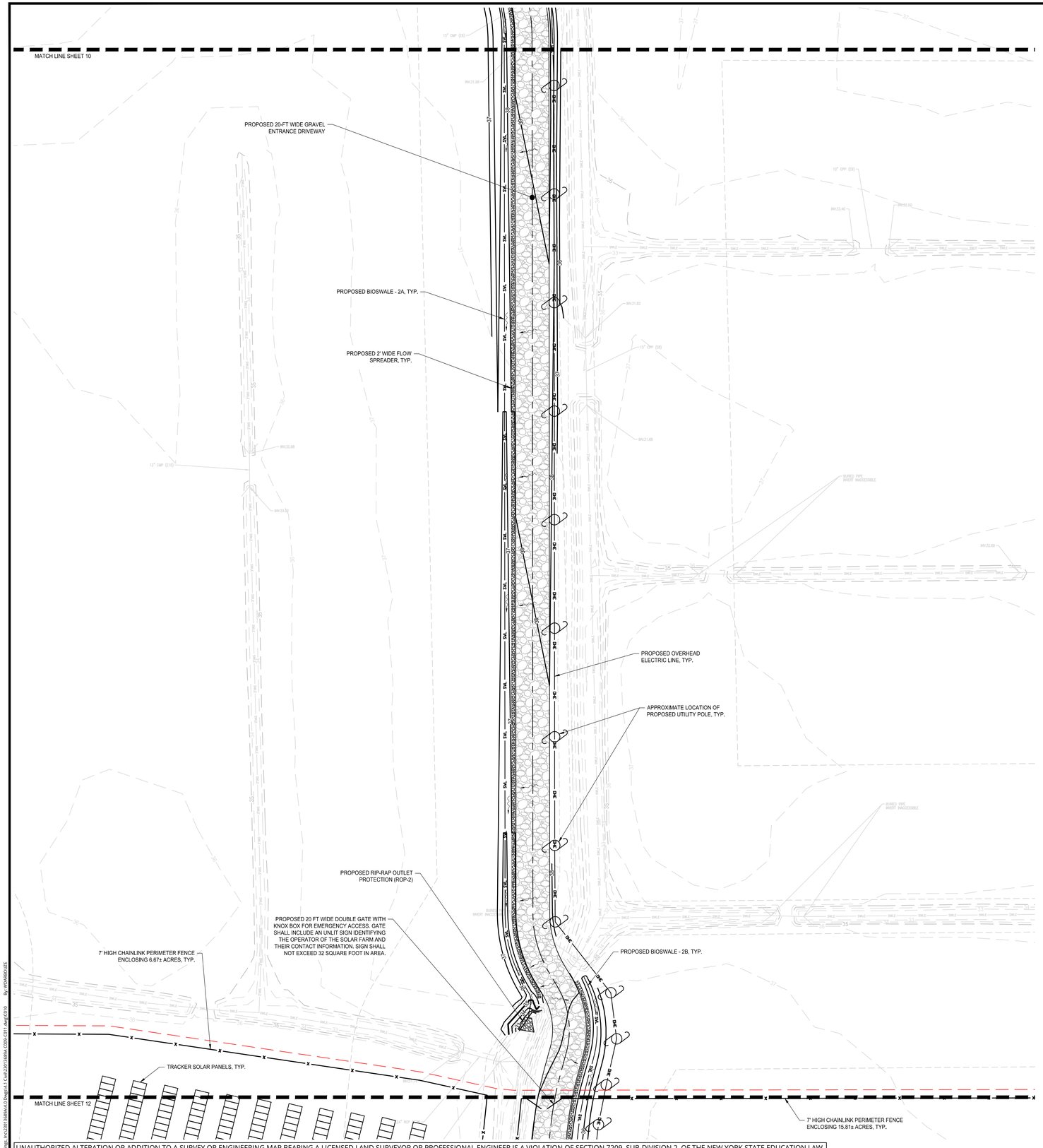
SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	5/31/2024	JL	WD

PROJECT NUMBER:	DRAWING NAME:
23013689A	C009

SHEET TITLE:
POST-CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN I

SHEET NUMBER:
10 of 17

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100 SUMMIT LAKE DRIVE
VALHALLA, NY 10595

Joe Shanahan — OWNER/DEVELOPER SIGNATURE — 5/31/2024 — DATE

Joe Shanahan, SENIOR PROJECT MANAGER — OWNER/DEVELOPER NAME AND TITLE (PRINTED OR TYPED)

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REV	DATE	DRAWN BY	DESCRIPTION

ERIC REDDING — LICENSE — No. 28736 — DELAWARE — PROFESSIONAL ENGINEER

MAJOR SITE PLAN APPLICATION
FOR
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PARCEL ID 533-8.00-10.00

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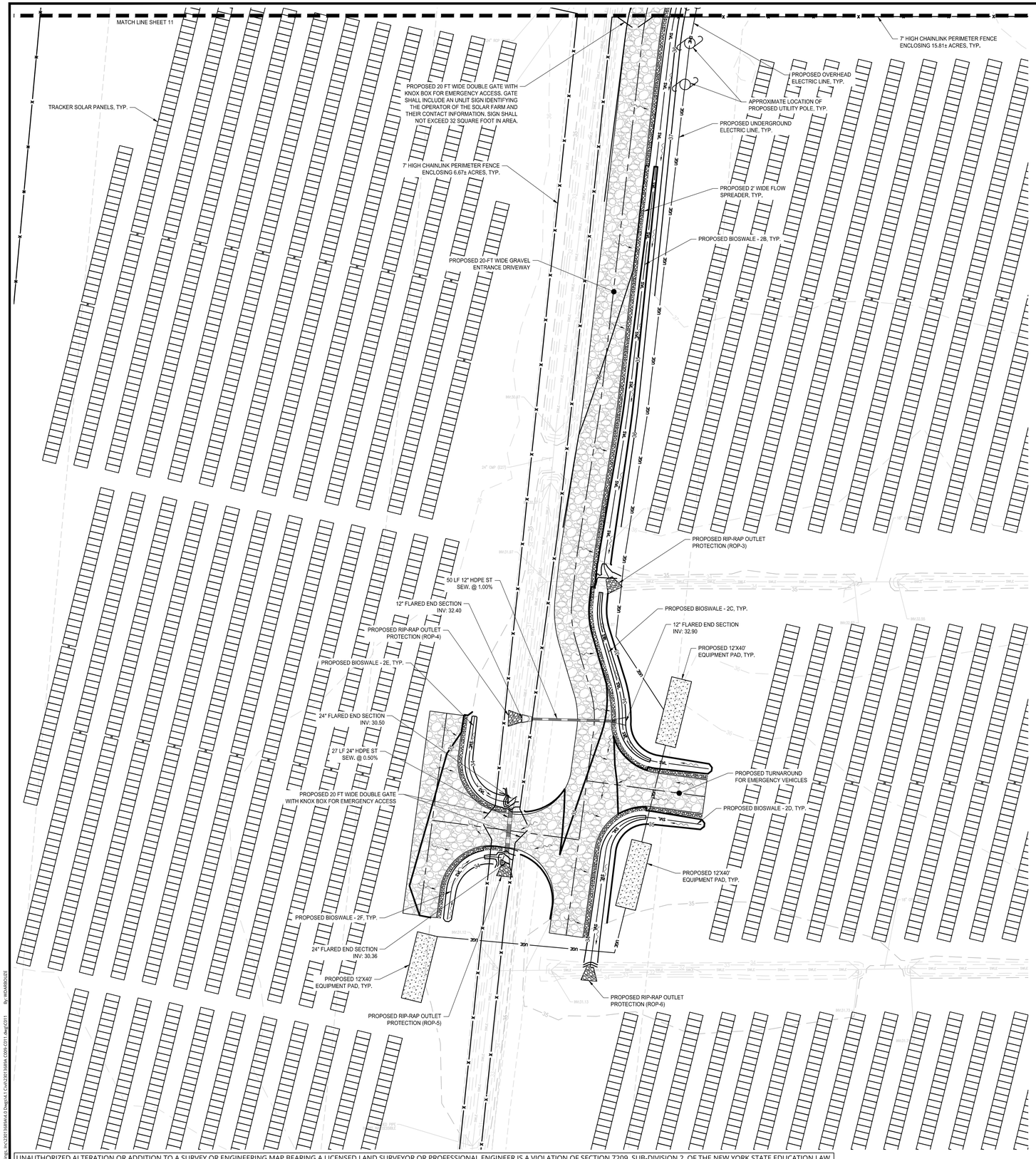
SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	5/31/2024	JL	WD

PROJECT NUMBER:	DRAWING NAME:
23013689A	C010

SHEET TITLE:
POST-CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN II

SHEET NUMBER:
11 of 17

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REV	DATE	DRAWN BY	DESCRIPTION

ERIC REDDING — LICENSE — No. 28738 — DELAWARE — PROFESSIONAL ENGINEER

MAJOR SITE PLAN APPLICATION
FOR
RWE CLEAN ENERGY

PARCEL ID 533-8.00-10.00

27858 CYPRESS ROAD
TOWN OF FRANKFORD
SUSSEX COUNTY
DELAWARE

Colliers Engineering & Design
ALBANY
18 Corporate Woods Blvd.
Suite 400
Albany, NY 12211
Phone: 518.862.0325
COLLIERS ENGINEERING & DESIGN CT, P.C.

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	5/31/2024	JL	WD

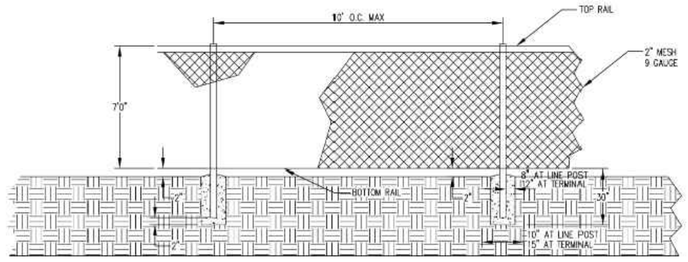
PROJECT NUMBER: 23013689A
DRAWING NAME: C011

SHEET TITLE:
POST-CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN III

SHEET NUMBER:
12 of 17

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

CHAIN LINKED FENCE TO BE INSTALLED WITH FULL-HEIGHT PLASTIC PRIVACY SLATS. COLOR TO BE SELECTED BY OWNER.

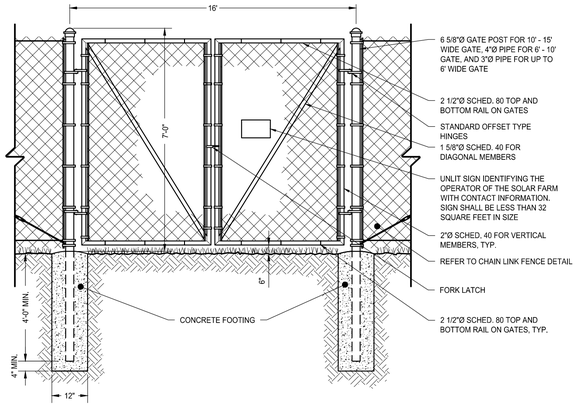


NOTES:

1. ALL POSTS SHALL BE PLUMB
2. POSTS SHALL BE SPACED EVENLY.
3. CORNER POSTS, END POSTS, AND GATEPOSTS SHALL BE TERMINAL.
4. MESH SHALL COMPLY WITH:
   A. 1.2 GSW
   B. RR-F-191-1D
   C. ASTM A-392
   D. AASHTO M-181
5. ALL NON FABRIC MATERIAL SHALL BE HDG
6. FENCE TO BE INSTALLED WITH FULL-HEIGHT PLASTIC PRIVACY SLATS. COLOR TO BE SELECTED BY OWNER.

INTERWOVEN CHAIN-LINK FENCE DETAIL

N.T.S.

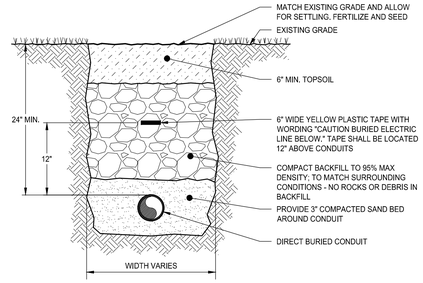


NOTES:

1. ALL POSTS SHALL BE PLUMB
2. WELD ALL PIPE CONNECTIONS.
3. GATE FABRIC TO MATCH FENCE FABRIC. PROVIDE MATCHING POST CAPS WHERE REQUIRED.
4. NOTCH CURBS TO MAINTAIN 4" HEIGHT BETWEEN BOTTOM OF GATE AND GRAVEL.
5. PROVIDE EMBEDDED METAL SLEEVE AND HOLD OPEN FOR EACH LEAF OF GATE.
6. CONTRACTOR SHALL INSTALL A KNOX BOX NEXT TO GATE FOR FIRE DEPARTMENT ACCESS.
7. POSTS SHALL BE DRIVEN INTO THE GROUND.
8. PROVIDE 6" WILDLIFE GAP BELOW FENCE
9. FENCE GATE TO BE INSTALLED WITH FULL-HEIGHT PLASTIC PRIVACY SLATS. COLOR TO BE SELECTED BY OWNER.

CHAIN-LINK FENCE GATE DETAIL

N.T.S.

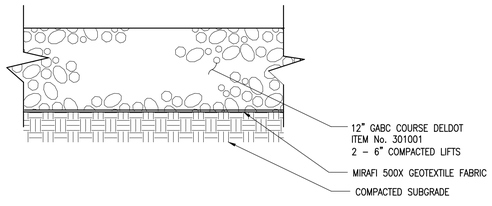


NOTES:

1. REPAIR ALL SETTLEMENT
2. MINIMUM TOP SOIL DEPTH 6"
3. MULTIPLE CONDUITS SHALL BE SPACED 7" ON CENTER

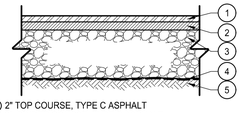
DIRECT BURIED CONDUIT TRENCH DETAIL (IN GRASS)

N.T.S.



TYPICAL GRAVEL PAVEMENT SECTION

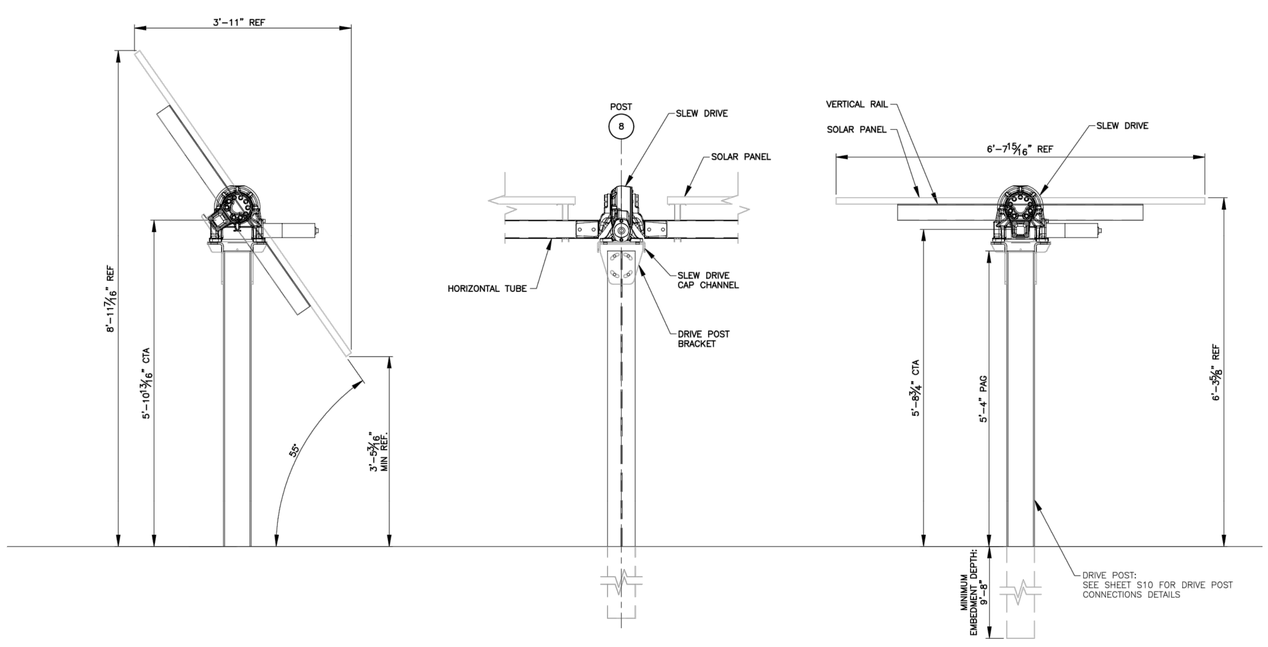
N.T.S.



① 2" TOP COURSE, TYPE C ASPHALT
② 3" BINDER COURSE, TYPE B ASPHALT
③ 8" SUBBASE COURSE, GABC OR SIMILAR APPROVED MATERIAL
④ MIRAFI 500X GEOTEXTILE FABRIC
⑤ COMPACTED SUBGRADE

STANDARD DUTY ASPHALT PAVEMENT SECTION

N.T.S.



TYPICAL TRACKER PANEL DETAIL

N.T.S.

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PROJECT NUMBER:	DRAWING NAME:
23013689A	C012

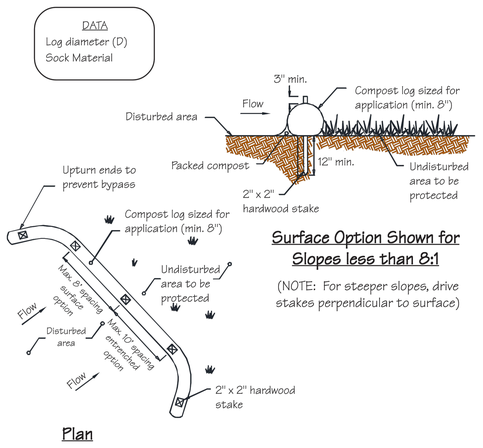
SHEET TITLE:
SITE CONSTRUCTION DETAILS

SHEET NUMBER:
13 of 17

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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

Standard Detail & Specifications
Compost Filter Log



NOTE: Manufacturer's recommendations supersede any installation details shown for this practice

Source:	Symbol:	Detail No.
Adapted from MD Stds & Specs for ESC & Filtrexx™ International	CFL	DE-ESC-3.1.7 Sheet 1 of 2

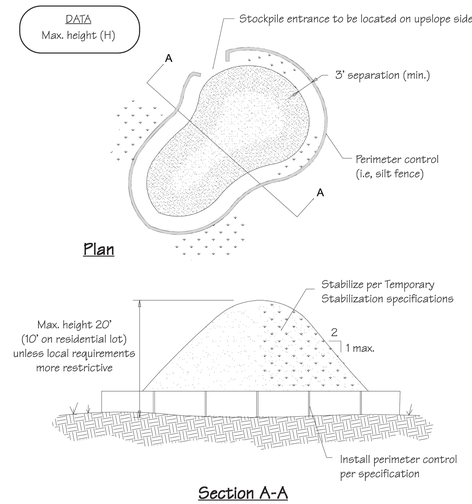
Standard Detail & Specifications
Compost Filter Log

Construction Notes:

1. Prior to installation, clear bedding area of obstructions including rocks or debris larger than 1 inch and fill in any sharp depression areas.
2. If socks are prepared on-site, fill the sock fabric using a pneumatic blower so that the logs are rigid and do not deform. Terminate at the desired length.
3. For trenched applications, excavate 2 to 4 inches below grade along the width and length of the compost filter log.
4. Install the compost filter logs perpendicular to the flow direction and parallel to the slope with the beginning and end of the installation pointing up the slope a minimum of 1 foot elevation difference. On sites where this is not possible, upturn at a minimum length of 10' at a 30 degree angle to prevent runoff bypass.
5. For untrenched applications, blow or hand pack soil, mulch, or compost on the upslope side of the log, filling the bottom void area.
6. Stake the filled log every 10 feet maximum through the center of the sock for trenched applications, or every 8 feet for untrenched. The stake shall be a 2" by 2" hardwood. It should extend 12" below grade and protrude at least 3" above the top of the sock. If located on a slope greater than 8:1, the stake shall be angled downslope at a 45 degree angle to prevent the force of the water from dislodging to log.
7. When the length of the compost filter log needed exceeds the available compost filter sock length, the next sock shall be overlapped a minimum of 12" before being filled, and a stake placed through both socks at the overlap.
8. Remove accumulated sediment when it has reached half of the effective height of the log.
9. Inspect weekly and after rain event. If sock is degrading or the sock is failing, vegetate to secure the compost, replace the log, or reinforce with an additional log. If the log has been crushed due to construction equipment, it can be "fluffed" back to its effective height. If the effective height can no longer be restored, the log shall be replaced or reinforced with an additional compost filter log.

Source:	Symbol:	Detail No.
Adapted from MD Stds & Specs for ESC & Filtrexx™ International	CFL	DE-ESC-3.1.7 Sheet 2 of 2

Standard Detail & Specifications
Soil Stockpile



Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	SP	DE-ESC-3.7.3 Sheet 1 of 2

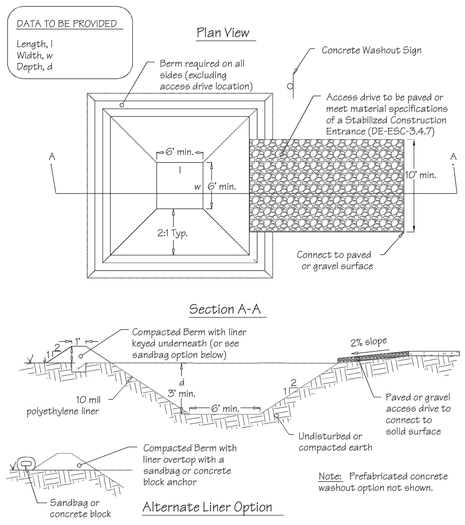
Standard Detail & Specifications
Soil Stockpile

Construction Notes:

1. Locate stockpiles so that they are 50 feet from any storm drain inlet, open channel, wetland or waterbody. Redirect any concentrated flow around the stockpile using an approved erosion and sediment control measure.
2. Secure the perimeter of the stockpile with an approved erosion and sediment control perimeter device.
3. If stockpile is to remain inactive for more than 14 calendar days, the stockpile must be vegetated. Follow the temporary vegetation specifications. The vegetation chosen shall last the duration of the stockpile; the stockpile shall be restabilized if the temporary vegetation dies or erosion results.

Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	SP	DE-ESC-3.7.3 Sheet 2 of 2

Standard Detail & Specifications
Concrete Washout



Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	CW	DE-ESC-3.6.2 Sheet 1 of 2

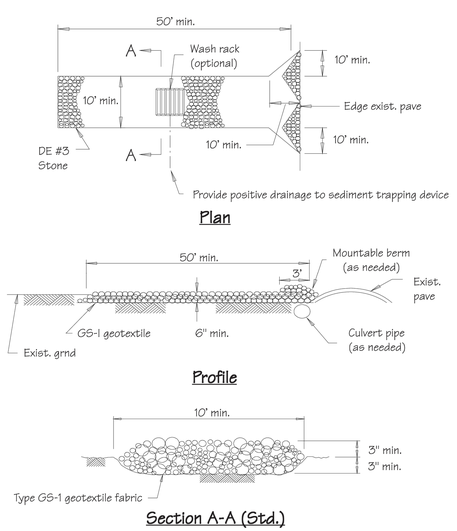
Standard Detail & Specifications
Concrete Washout

Construction Notes:

1. Locate washout area a minimum of 50 feet from open channels, stormdrain inlets, wetlands or waterbodies.
2. Locate washout area so that it is accessible to concrete equipment (service with a minimum 10 foot wide gravel accessway), but so it is not in a highly active construction area causing accidental damage.
3. Minimum dimensions for prefabricated units are 4 feet by 4 feet by 1 foot deep with a minimum 4mil polyethylene plastic liner. Minimum dimensions for constructed concrete washout areas are 6 feet by 6 feet by 3 feet deep, with a minimum 10mil polyethylene liner, 2:1 side slopes, and a 1 foot high by 1 foot wide compacted fill berm.
4. The liner must be free of tears or holes and placed over smooth surfaces to prevent puncturing. For excavated washouts, anchor the liner underneath the berm or overtop with sandbags or concrete blocks to hold in place.
5. Provide a sign designating the washout area, and for large construction sites, provide signs throughout directing traffic to its location.
6. Allow washed out concrete mixture to harden through evaporation of the wastewater. Once the facility has reached 75 percent of its capacity, remove the hardened concrete by reusing the broken aggregate onsite, recycling, or disposing of offsite. The hardened material can be buried on site with minimum of 1 foot of clean, compacted fill.
7. Apply a new liner before reusing the station for additional washouts after maintenance has occurred.

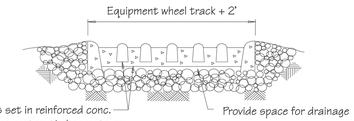
Source:	Symbol:	Detail No.
Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3	CW	DE-ESC-3.6.2 Sheet 2 of 2

Standard Detail & Specifications
Stabilized Construct. Entrance



Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook	SCE	DE-ESC-3.4.7 Sheet 1 of 2

Standard Detail & Specifications
Stabilized Construct. Entrance



Section A-A (Opt.)

Construction Notes:

1. Stone size - Use DE #3 stone.
2. Length - As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness - Not less than size (6) inches.
4. Width - Ten (10) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Geotextile - Type GS-I; placed over the entire area prior to placing of stone.
6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
8. Washing - Vehicle wheels shall be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Inspection - Periodic inspection and needed maintenance shall be provided after each rain.

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook	SCE	DE-ESC-3.4.7 Sheet 2 of 2

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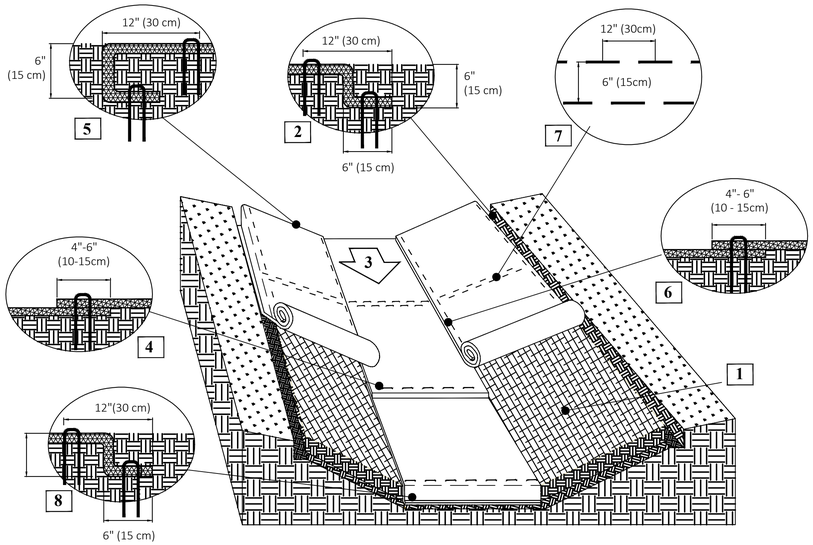
PROJECT NUMBER:	DRAWING NAME:
23013689A	C013

SHEET TITLE:
EROSION & SEDIMENT CONTROL DETAILS

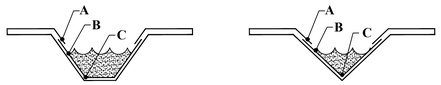
SHEET NUMBER:
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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



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

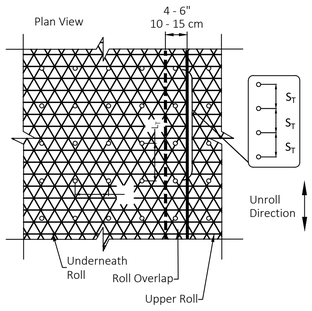


NOTES:
*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

Instructions

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation.
2. Begin at the top of the channel by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench with approximately 12" (30 cm) 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/pins approximately 12" (30 cm) 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" (30 cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes/pins spaced approximately 12" (30 cm) 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/pins in appropriate locations as shown in the staple pattern guide.
4. Place consecutive RECPs end-over-end (Shingle style) with a 4"- 6" (10 - 15 cm) 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/pins spaced at S_T apart in a 6" (15 cm) deep X 6"(15 cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent RECPs must be overlapped approximately 4"- 6" (10 - 15 cm) and secured with staples/stakes/pins at S_T.
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 6" (15 cm) apart and 12" (30 cm) on center over entire width of the channel.
8. The terminal end of the RECPs must be anchored with a row of staples/stakes/pins spaced at S_T apart in a 6" (15 cm) deep X 6" (15 cm) wide trench. Backfill and compact the trench after stapling.
9. Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may by used where staples or twist pins are refused, provided the minimum pullout requirements are met. Bio-degradable fasteners shall not be used with VMax (TRM) or TMax (HPTRM) materials.

Staple Pattern Guide



○ Pin / Staple / Twist Pin, as appropriate for field conditions

	Staple Pattern
Dimension	E
W_T	20" (50 cm)
L_T	20" (50 cm)
S_T	18" (45 cm)
Nominal Frequency	3.8 / SY

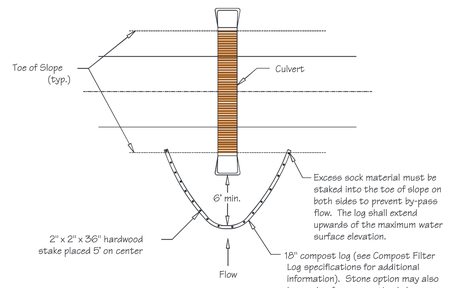
EROSION CONTROL BLANKET STAPLE PATTERN

N.T.S.

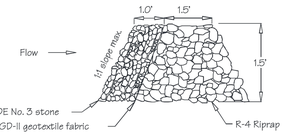
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Standard Detail & Specifications

Culvert Inlet Protection



Plan View - Compost Log Option

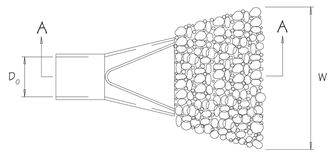


Section View - Stone Option

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook & Filtrexx™ International	CIP	**DE-ESC-3.1.6** Sheet 1 of 2

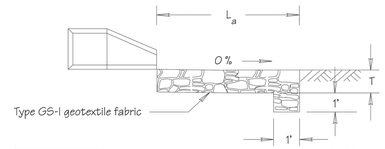
Standard Detail & Specifications

Riprap Outlet Protection - 1



Plan

NOTE: Depress centerline of apron slightly to prevent edge-cutting



NOTE: Key into exist. gnd

DATA
Pipe diameter (D_o)
Apron length (L_a)
Apron width (W)
Riprap size (R No.)
Riprap thickness (T)

Section A-A

Do = 15"
W = 9.5'
La = 8'
D50 = 6"
T = 18"

$T_W < 0.5\ D_o$

Source:	Symbol:	Detail No.
Adapted from MD Stds. & Specs. for ESC	ROP-1	**DE-ESC-3.3.10.1** Sheet 1 of 2

Standard Detail & Specifications

Culvert Inlet Protection

Construction Notes

1. Compost logs shall be designed and installed in accordance with the Standard Detail and Specifications for Compost Logs (DE-ES-3.1.7).
2. If compost logs can not be installed properly or flow conditions exceed the design capabilities of the compost logs, the stone option shall be employed. Additional filtration may be provided by using a Type GD-II geotextile incorporated into the design as an option.
3. Placement of the compost log or stone barrier should be in a "horseshoe" shape and provide a minimum of 6 feet of clearance from the culvert inlet.

Materials

1. Stakes: 2" x 2" x 36" hardwood.
2. Compost media : See requirements in Standard Detail and Specifications for Compost Logs (DE-ES-3.1.7).
3. Filter sock: See requirements in Standard Detail and Specifications for Compost Logs (DE-ES-3.1.7).
4. Geotextile: Type GD-II for stone/riprap option.
5. Stone: DE No. 3 for stone/riprap option.
6. Riprap: R-6 for stone/riprap option.

Source:	Symbol:	Detail No.
Adapted from VA ESC Handbook & Filtrexx™ International	CIP	**DE-ESC-3.1.6** Sheet 2 of 2

Standard Detail & Specifications

Riprap Outlet Protection - 1

Construction Notes:

1. The subgrade for the riprap shall be prepared to the required lines and grades as shown on the plan. Any fill required in the subgrade shall be compacted to a density of approximately that of the surrounding undisturbed material.
2. The riprap shall conform to the grading limits as shown on the plan.
3. Filter cloth shall be protected from punching, cutting or tearing. Any damage other than an occasional small hole shall be repaired by placing another piece of cloth over the damaged area. All connecting joints should overlap a minimum of 1 ft. If the damage is extensive, replace the entire filter cloth.
4. Stone for the riprap or gabion outlets may be placed by equipment. Riprap shall be placed in a manner to prevent damage to the filter cloth. Hand placement will be required to the extent necessary to prevent damage to the conduits, structures, etc.

Source:	Symbol:	Detail No.
Adapted from MD Stds. & Specs. for ESC	ROP-1	**DE-ESC-3.3.10.1** Sheet 2 of 2

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REV	DATE	DRAWN BY	DESCRIPTION

ERIC REDDING LICENSE No. 20738 PROFESSIONAL ENGINEER DELAWARE

MAJOR SITE PLAN APPLICATION

FOR

RWE CLEAN ENERGY

PARCEL ID 533-8.00-10.00

27858 CYPRESS ROAD
TOWN OF FRANKFORD
SUSSEX COUNTY
DELAWARE

Colliers Engineering & Design
ALBANY
18 Corporate Woods Blvd.
Suite 400
Albany, NY 12211
Phone: 518.862.0325
COLLIERS ENGINEERING & DESIGN CT, P.C.

SCALE:	DATE:	DRAWN BY:	CHECKED BY:
AS SHOWN	5/31/2024	JL	WD

PROJECT NUMBER: 23013689A
DRAWING NAME: C014

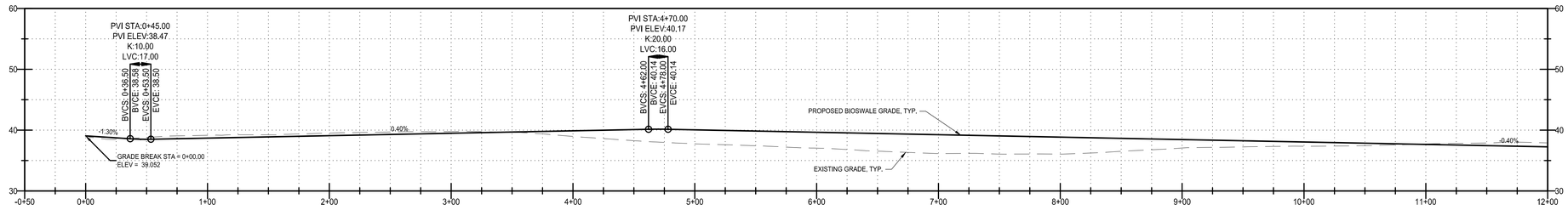
SHEET TITLE: EROSION & SEDIMENT CONTROL DETAILS

SHEET NUMBER: 15 of 17

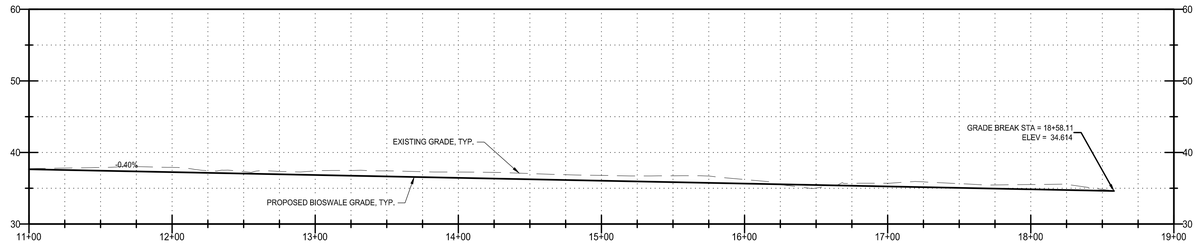
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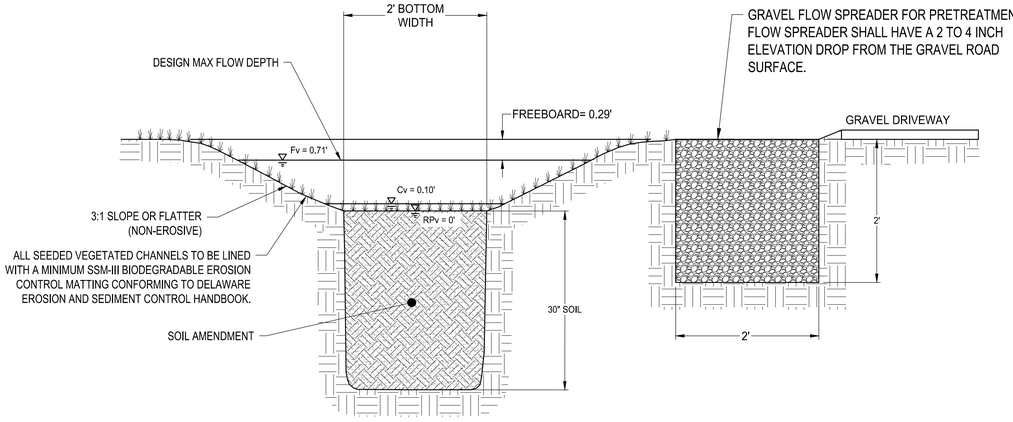
BIOSWALE PROFILE
1" = 10' VERTICAL
1" = 50' HORIZONTAL



BIOSWALE PROFILE
1" = 10' VERTICAL
1" = 50' HORIZONTAL







SECTION VIEW
SCALE 1"=1'

BIOSWALE DESIGN CRITERIA							
	BIOSWALE 2A	BIOSWALE 2B	BIOSWALE 2C	BIOSWALE 2D	BIOSWALE 2E	BIOSWALE 2F	BIOSWALE 3A
HYDRAULIC CAPACITY	16.32 CFS	14.61 CFS	17.82 CFS	23.26 CFS	37.50 CFS	37.62 CFS	10.52 CFS
RPV PEAK RATE	0.00 CFS	0.00 CFS	0.00 CFS	0.00 CFS	0.00 CFS	0.00 CFS	0.00 CFS
MANNING'S "N"	0.03	0.03	0.03	0.03	0.03	0.03	0.03
CV PEAK FLOW RATE	4.91 CFS	2.22 CFS	0.79 CFS	1.04 CFS	0.51 CFS	2.44 CFS	1.74 CFS
FV PEAK FLOW RATE	9.43 CFS	4.50 CFS	1.61 CFS	1.97 CFS	1.05 CFS	5.08 CFS	3.39 CFS
AVERAGE HYDRAULIC RESITANCE TIME	18.2 MINS	15.2 MINS	15.3 MINS	6.4 MINS	26.3 MINS	21.0 MINS	17.5 MINS
MAXIMUM VELOCITY	2.83 FPS	2.14 FPS	1.84 FPS	2.35 FPS	2.71 FPS	4.37 FPS	1.56 FPS

PROPOSED VEGETATION						
BIOSWALE 2A	BIOSWALE 2B	BIOSWALE 2C	BIOSWALE 2D	BIOSWALE 2E	BIOSWALE 2F	BIOSWALE 3A
BERMUDA GRASS	BERMUDA GRASS	BERMUDA GRASS	BERMUDA GRASS	BERMUDA GRASS	BERMUDA GRASS	BERMUDA GRASS

NOTES:

1. THE BOTTOM WIDTH OF A TRAPEZOIDAL CHANNEL SHALL BE A MINIMUM OF 2 FEET WIDE TO ENSURE THAT AN ADEQUATE SURFACE AREA EXISTS ALONG THE BOTTOM OF THE CHANNEL FOR FILTERING.
2. IF A CHANNEL BOTTOM WILL BE WIDER THAN 8 FEET, BENCHES, CHECK DAMS, LEVEL SPREADERS, OR MULTI-LEVEL CROSS SECTIONS SHALL BE INCORPORATED TO PREVENT BRAIDING AND EROSION ALONG THE CHANNEL BOTTOM.
3. VEGETATED CHANNEL SIDE SLOPES SHALL BE NO STEEPER THAN 3H:1V.
4. ALL SEEDED VEGETATED CHANNELS REQUIRE A MINIMUM SSM-III BIODEGRADABLE EROSION CONTROL MATTING CONFORMING TO DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK.
5. SOIL AMENDMENTS, WHEN USED, SHALL EXTEND OVER THE LENGTH AND WIDTH OF THE CHANNEL BOTTOM, AND THE COMPOST SHALL BE INCORPORATED TO THE DEPTH AS SHOWN ON THE APPROVED PLAN.
6. DESIGN STORM FLOW DEPTH BASED ON 50% OF RPv PEAK FLOW RATE SHALL BE MAINTAINED AT 4 INCHES OR LESS.
7. PEAK FLOW RATES FOR THE Cv AND Fv STORMS SHALL BE NON-EROSIVE.
8. IF THE Fv STORM EVENT IS NOT CONTAINED WITHIN THE CHANNEL, THE AREA OF INUNDATION SHALL BE SHOWN.
9. ALL VEGETATED CHANNELS MUST BE DESIGNED SO AS TO BE ACCESSIBLE FOR MAINTENANCE.
10. VEGETATED CHANNEL SHALL BE ESTABLISHED AT SUCH A DENSITY TO ACHIEVE A 90% VEGETATED COVER FOR PROJECT COMPLETION.
11. INSTALL A MINIMUM SSM-III BIODEGRADABLE EROSION CONTROL MATTING CONFORMING TO DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK.
12. PLACE 8 INCHES OF COMPOST INTO THE SOIL AMENDMENT AREA TO AN INCORPORATION DEPTH OF 22 INCHES USING AN EXCAVATION AND MIXING METHOD.

BIOSWALE CONSTRUCTION SEQUENCE:

1. THE AREA OF THE VEGETATED CHANNEL SHOULD REMAIN UNDISTURBED DURING GENERAL SITE CONSTRUCTION PRIOR TO VEGETATED CHANNEL CONSTRUCTION TO PREVENT SOIL COMPACTION BY HEAVY EQUIPMENT. HOWEVER, THIS IS SELDOM PRACTICAL, GIVEN THAT THE CHANNELS AREA KEY PART OF THE DRAINAGE SYSTEM AT MOST SITES. IN THESE CASES, DESIGNERS SHOULD INTEGRATE TEMPORARY EROSION AND SEDIMENT CONTROLS SUCH AS DIKES, SILT FENCES AND OTHER EROSION AND SEDIMENT CONTROL MEASURES INTO THE SWALE DESIGN THROUGH THE CONSTRUCTION SEQUENCE. SPECIFICALLY, BARRIERS SHOULD BE INSTALLED AT KEY CHECK DAM LOCATIONS, AND EROSION CONTROL MATTING SHOULD BE USED TO PROTECT THE CHANNEL.
2. IT IS PREFERRED THAT INSTALLATION WILL BEGIN AFTER THE ENTIRE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED WITH VEGETATION. STORMWATER FLOWS SHOULD BE DIVERTED AWAY FROM THE CHANNEL UNTIL THE BOTTOM AND SIDE SLOPES ARE FULLY STABILIZED WITH EITHER VEGETATION OR A TEMPORARY EROSION CONTROL MATTING.
3. GRADE THE VEGETATED CHANNEL TO THE FINAL DIMENSIONS SHOWN ON THE PLAN. EXCAVATORS OR BACKHOES SHOULD WORK FROM THE SIDES TO GRADE AND EXCAVATE THE VEGETATED CHANNELS TO THE APPROPRIATE DESIGN DIMENSIONS. IT IS PREFERRED THAT EXCAVATING EQUIPMENT HAVE ADEQUATE REACH, SO THEY DO NOT HAVE TO SIT INSIDE THE FOOTPRINT OF THE VEGETATED CHANNEL AREA.
4. APPLY SOIL AMENDMENTS IN ACCORDANCE WITH SPECIFICATION 14, SOIL AMENDMENTS.
5. INSTALL CHECK DAMS SHOULD BE CONSTRUCTED LEVEL AT THE DESIGN ELEVATION.
6. SEED THE BOTTOM AND BANKS OF THE VEGETATED CHANNEL AND INSTALL EROSION CONTROL MATTING.
7. PLANT LANDSCAPING MATERIALS AS SHOWN IN THE LANDSCAPING PLAN, AND WATER THEM WEEKLY DURING THE FIRST 2 MONTHS. THE CONSTRUCTION CONTRACT SHOULD INCLUDE A CARE AND REPLACEMENT WARRANTY TO ENSURE THAT VEGETATION IS PROPERLY ESTABLISHED AND SURVIVES DURING THE FIRST GROWING SEASON FOLLOWING CONSTRUCTION.
8. CONDUCT THE FINAL CONSTRUCTION INSPECTION AND DEVELOP A PUNCH LIST FOR FACILITY ACCEPTANCE.

SOIL AMENDMENT:

1. THE PROPOSED AMENDMENT AREA SHALL BE EXCAVATED TO THE REQUIRED INCORPORATION DEPTH AS FOLLOWS:
   - 1.1. REMOVE TOPSOIL AND STOCKPILE FOR LATER USE.
   - 1.2. EXCAVATE SUBSOIL WORKING IN STRIPS PERPENDICULAR TO THE SLOPE/FLOWPATH, USING MULTIPLE LIFTS.
   - 1.3. SEPARATE AND REMOVE A MINIMUM OF 25% OF THE SUBSOIL, TAKING THE MOST DENSELY COMPACTED SOIL FOR REMOVAL. STOCKPILE REMAINING SUBSOIL NEXT TO EXCAVATE AREA SEPARATELY FROM TOPSOIL.
   - 1.4. SCARIFY BOTTOM OF EXCAVATED AREA.
2. AMENDED SOIL SHALL BE RETURNED TO THE SOIL AMENDMENT AREA AS FOLLOWS. THE NUMBER OF LIFTS MAY VARY DEPENDING ON THE CAPABILITIES OF THE EQUIPMENT BEING USED, BUT A MINIMUM OF 2 LIFTS IS REQUIRED.
   - 2.1. REPLACE SUBSOILS BY LOOSENING, AERATING, AND MIXING SUBSOIL.
   - 2.2. REPLACE STOCKPILED TOPSOIL.
   - 2.3. INCORPORATE REQUIRED LAYER OF COMPOST, SUCH THAT COMPOST IS UNIFORMLY INCORPORATED THROUGHOUT. EXISTING SOILS SHALL BE IN DRY CONDITION PRIOR TO INCORPORATING COMPOST.
   - 2.4. REPEAT ABOVE STEPS FOR EACH LIFT.
3. RAKE TO LEVEL AND REMOVE SURFACE WOODY DEBRIS AND ROCKS LARGER THAN 1 INCH.
4. THE FINISHED GRADE OF THE COMBINATION OF REPLACED SUBSOIL, TOPSOIL AND COMPOST SHALL BE A MINIMUM OF 4" ABOVE THE EXISTING GRADE TO ACCOUNT FOR SETTLEMENT, BUT MUST BE ADJUSTED TO ACCOUNT FOR FIELD CONDITIONS AND SOIL TEXTURE, SUCH THAT A FINAL SETTLED GRADE AT THREE MONTHS POST-INSTALLATION MATCHES THE ORIGINAL GRADE.

ONCE THE COMPOST HAS BEEN INCORPORATED, VEGETATIVE STABILIZATION SHOULD BE INITIATED IMMEDIATELY. LIME AND IRRIGATION MAY BE NECESSARY TO ENSURE ADEQUATE GERMINATION AND QUICK ESTABLISHMENT OF VEGETATION. THE SOIL AMENDMENT AREA SHOULD BE PROTECTED FROM RE-COMPACTION, PARTICULARLY FOLLOWING THE FIRST 3 MONTHS OF COMPLETION AS SETTLEMENT OCCURS. AREAS OF SOIL AMENDMENT EXCEEDING 5000 SQUARE FEET SHOULD EMPLOY SIMPLE EROSION CONTROL MEASURES, SUCH AS SILT FENCE, TO REDUCE THE POTENTIAL FOR EROSION AND TRAP SEDIMENT.

BIOSWALE DETAIL
N.T.S.

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ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.

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REV	DATE	DRAWN BY	DESCRIPTION

ERIC REDDING — LICENSE — No. 26738 — DELAWARE — PROFESSIONAL ENGINEER

MAJOR SITE PLAN APPLICATION

FOR

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PARCEL ID 533-8.00-10.00

27858 CYPRESS ROAD
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DRAWING NAME: C015

SHEET TITLE: BMP DETAILS

SHEET NUMBER: 16 of 17

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NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

MULCHING MATERIAL SELECTION GUIDE					
PERCENT SLOPE	TYPE OF MULCH / APP. RATE	DEC. 1 TO FEB. 28(29)	MARCH 1 TO MAY 31	JUNE 1 TO AUG. 31	SEPT. 1 TO NOV. 30
LESS THAN 2%	BLENDED FIBER @ 2000 LBS/AC. MIN.	XXXXXXX	OK (≤ 1 AC.)	XXXXXXX	OK (≤ 1 AC.)
	WOOD FIBER @ 2000 LBS/AC. MIN.	XXXXXXX	OK	XXXXXXX	OK
	BFM @ 3000 LBS/AC. MIN.	OK	OK	OK	OK
	STRAW @ 2 TONS/AC. MIN.	OK	OK	OK	OK
	STABILIZATION MATTING**	OK	OK	OK	OK
	1" COMPOST BLANKET (CB)	OK	OK	OK	OK
2% TO 5.9%	WOOD FIBER @ 2000 LBS/AC. MIN.	XXXXXXX	OK	XXXXXXX	OK
	BFM @ 3000-3500 LBS/AC. MIN.	OK	OK	OK	OK
	STRAW @ 2 TONS/AC. MIN.	OK	OK	OK	OK
	STABILIZATION MATTING**	OK	OK	OK	OK
	1" COMPOST BLANKET (CB)	OK	OK	OK	OK
6% TO 10.9%	WOOD FIBER @ 2000-2500 LBS/AC. MIN.	XXXXXXX	OK	XXXXXXX	OK
	BFM @ 3500-4000 LBS/AC. MIN.	OK	OK	OK	OK
	STRAW @ 2 TONS/AC. MIN.	OK	OK	OK	OK
	STABILIZATION MATTING**	OK	OK	OK	OK
	1" COMPOST BLANKET (CB)	OK	OK	OK	OK
11% TO 24.9%	WOOD FIBER @ 2500-3000 LBS/AC. MIN.	XXXXXXX	OK	XXXXXXX	OK
	BFM @ 3500-4000 LBS/AC. MIN.	OK	OK	OK	OK
	STRAW @ 2 TONS/AC. MIN.	OK	OK	OK	OK
	STABILIZATION MATTING**	OK	OK	OK	OK
	1" COMPOST BLANKET (CB)	OK	OK	OK	OK
25% TO 33%	WOOD FIBER @ 2500-3000 LBS/AC. MIN.	XXXXXXX	OK	XXXXXXX	OK
	BFM @ 4000 LBS/AC. MIN.	XXXXXXX	OK	XXXXXXX	OK
	STRAW @ 2 TONS/AC. MIN.	OK	OK	OK	OK
	STABILIZATION MATTING**	OK	OK	OK	OK
	1" COMPOST BLANKET (CB)	OK	OK	OK	OK
33% AND UP	BFM @ 4000-4500 LBS/AC. MIN.	XXXXXXX	OK	XXXXXXX	OK
	STRAW @ 2 TONS/AC. MIN.	OK	OK	OK	OK
	STABILIZATION MATTING**	OK	OK	OK	OK
	1" COMPOST BLANKET (CB)	2:1 MAX.	2:1 MAX.	2:1 MAX.	2:1 MAX.
COMPANY INFORMATION					
DELAWARE SEDIMENT & STORMWATER PROGRAM - DIVISION OF WATERSHED STEWARDSHIP					
ADDRESS: 89 KINGS HWY, DOVER, DE 19901					
PHONE: (302) 739-9921					
WEB: HTTP://WWW.DNREC.STORMWATER@DELAWARE.GOV					

NOTES:

1. MANUFACTURERS RECOMMENDED A RATES FOR INFORMATIONAL PURPOSES ONLY. PERFORMANCE STANDARD REQUIRES 100% SOIL COVERAGE.
2. STABILIZATION MATTING MUST BE APPLIED IN ACCORDANCE WITH SECTION 3.4.6 OF THE DELAWARE ESC HANDBOOK.
3. STRAW APPLIED ON SLOPES GREATER THAN 33% MUST BE NETTED (THIS DOES NOT APPLY TO TOPSOIL STOCKPILES).
4. OK = ACCEPTABLE TO USE DURING THIS TIME PERIOD
5. XXXXXXX = NOT ACCEPTABLE TO USE DURING THIS TIME PERIOD.
6. ALL APPLICATION RATES ARE MINIMUMS.

SITE STABILIZATION DETAIL

N.T.S.

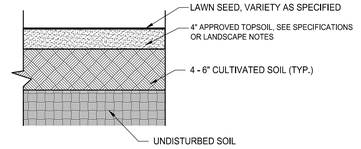
TEMPORARY SEEDING BY RATES, DEPTHS, AND DATES											
MIX #	SPECIES	SEEDING RATE		OPTIMUM SEEDING DATES							PLANTING DEPTH
	CERTIFIED SEED	LB/AC	LB/1,000 SQ. FT.	COASTAL PLAIN			PIEDMONT			ALL	
				2/1 - 4/30	5/1 - 8/14	8/15 - 10/31	3/1 - 4/30	5/1 - 7/31	8/1 - 10/31	10/31 - 2/1	
1	BARLEY	125	4	O	A	O	O	A	O		1-2 INCHES 2-3" SANDY SOILS
2	OATS	125	4	O	A	A	O	A	A		1-2 INCHES 2-3" SANDY SOILS
3	RYE	125	4	O	A	O	O	A	O	A	1-2 INCHES 2-3" SANDY SOILS
4	PERENNIAL RYEGRASS	125	4	O	A	O	O	A	O		0.5 INCHES 1-2" SANDY SOILS
5	ANNUAL RYEGRASS	125	4	O	A	O	O	A	O	A	0.5 INCHES 1-2" SANDY SOILS
6	WINTER WHEAT	125	4	O	A	O	O	A	O	A	1-2 INCHES 2-3" SANDY SOILS
7	FOXTAIL MILLET	30 PLS	0.7		O			O			0.5 INCHES 1-2" SANDY SOILS
8	PEARL MILLET	20 PLS	0.5		O			O			0.5 INCHES 1-2" SANDY SOILS
COMPANY INFORMATION											
DELAWARE SEDIMENT & STORMWATER PROGRAM - DIVISION OF WATERSHED STEWARDSHIP											
ADDRESS: 89 KINGS HWY, DOVER, DE 19901											
PHONE: (302) 739-9921											
WEB: HTTP://WWW.DNREC.STORMWATER@DELAWARE.GOV											

NOTES:

1. WINTER SEEDING REQUIRES 3 TONS PER ACRE OF STRAW MULCH FOR PROPER STABILIZATION.
2. MAY BE PLANTED THROUGHOUT SUMMER IF SOIL MOISTURE IS ADEQUATE OR SEEDED AREA CAN BE IRRIGATED.
3. APPLICABLE ON SLOPES 3:1 OR LESS.
4. FIFTY POUNDS PER ACRE OF ANNUAL LESPEDEZA MAY BE ADDED TO 1/2 THE SEEDING RATE OF ANY OF THE ABOVE SPECIES.
5. USE VARIETIES CURRENTLY RECOMMENDED FOR DELAWARE. CONTACT A COUNTY EXTENSION OFFICE FOR INFORMATION.
6. WARM SEASON GRASSES SUCH AS MILLET OR WEEPING LOVEGRASS MAY BE USED BETWEEN 5/1 AND 9/1 IF DESIRED. SEED AT 3-5 LBS. PER ACRE. GOOD ON LOW FERTILITY AND ACID AREAS. SEED AFTER FROST THROUGH SUMMER AT A DEPTH OF 0.5"

TEMPORARY SITE STABILIZATION SEED MIX

N.T.S.



SEEDING PROCEDURE:

1. CULTIVATE ENTIRE AREA TO 4"-6" DEPTH. HANDRAKE SMOOTH. SPREAD 4" OF TOPSOIL.
2. APPLY ANY SOIL MODIFICATIONS AS NECESSARY (SEE SPECIFICATIONS OR LANDSCAPE NOTES)
3. WATER AREA TO BE SEEDED PRIOR TO LAYING SEED.
4. WATER THOROUGHLY UPON COMPLETION OF SEEDING.
5. APPLY SOIL STABILIZATION AS NECESSARY.

SOIL RESTORATION DETAIL

N.T.S.

Ernst Conservation Seeds
8884 Mercer Pike
Meadville, PA 16335
(800) 873-3321 Fax (814) 336-5191
www.ernstseed.com

Date: May 23, 2022

Low-Growing Wildflower & Grass Mix - ERNMX-156

	Botanical Name	Common Name	Price/Lb
50.00 %	*Festuca ovina, Variety Not Stated*	Sheep Fescue, Variety Not Stated	6.30
21.50 %	*Bouteloua curtipendula, Butte*	Sideoats Grama, Butte	15.70
17.00 %	*Lolium multiflorum*	Annual Ryegrass	1.20
4.00 %	*Linum perenne*	Perennial Blue Flax	48.00
1.50 %	*Coreopsis lanceolata*	Lanceleaf Coreopsis	28.80
1.50 %	*Rudbeckia hirta*	Blackeyed Susan	31.20
1.20 %	*Chrysanthemum maximum*	Shasta Daisy	43.20
1.00 %	*Chamaecrista fasciculata, PA Ecotype*	Partridge Pea, PA Ecotype	7.20
1.00 %	*Papaver rhoeas, Red*	Corn Poppy, Red	28.80
0.30 %	*Asclepias tuberosa*	Butterfly Milkweed	312.00
0.30 %	*Aster oblongifolius, PA Ecotype*	Aromatic Aster, PA Ecotype	336.00
0.20 %	*Achillea millefolium*	Common Yarrow	48.00
0.20 %	*Pycnanthemum tenuifolium*	Narrowleaf Mountainmint	168.00
0.10 %	*Oenothera fruticosa var. fruticosa*	Sundrops	360.00
0.10 %	*Penstemon hirsutus*	Hairy Beardtongue	480.00
0.10 %	*Zizia aurea, PA Ecotype*	Golden Alexanders, PA Ecotype	96.00
100.00 %		**Mix Price/Lb Bulk:**	**$13.74**

Seeding Rate: 20-40 lb per acre

Uplands & Meadows

Specifically designed to provide erosion and sediment control and color on low-fertility sites. After the establishment year, this meadow mix may be mowed annually. This would preferably be in the spring prior to onset of new growth, but it may be after the meadow ceases blooming in the fall. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy and function of the mix will not.

PERMANENT SITE STABILIZATION SEED MIX

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