SITE PLAN SET CORTLANDT MILL SOLAR FARM CORTLANDT MANOR, WESTCHESTER COUNTY, NEW YORK

PREPARED FOR: CVE NORTH AMERICA INC.

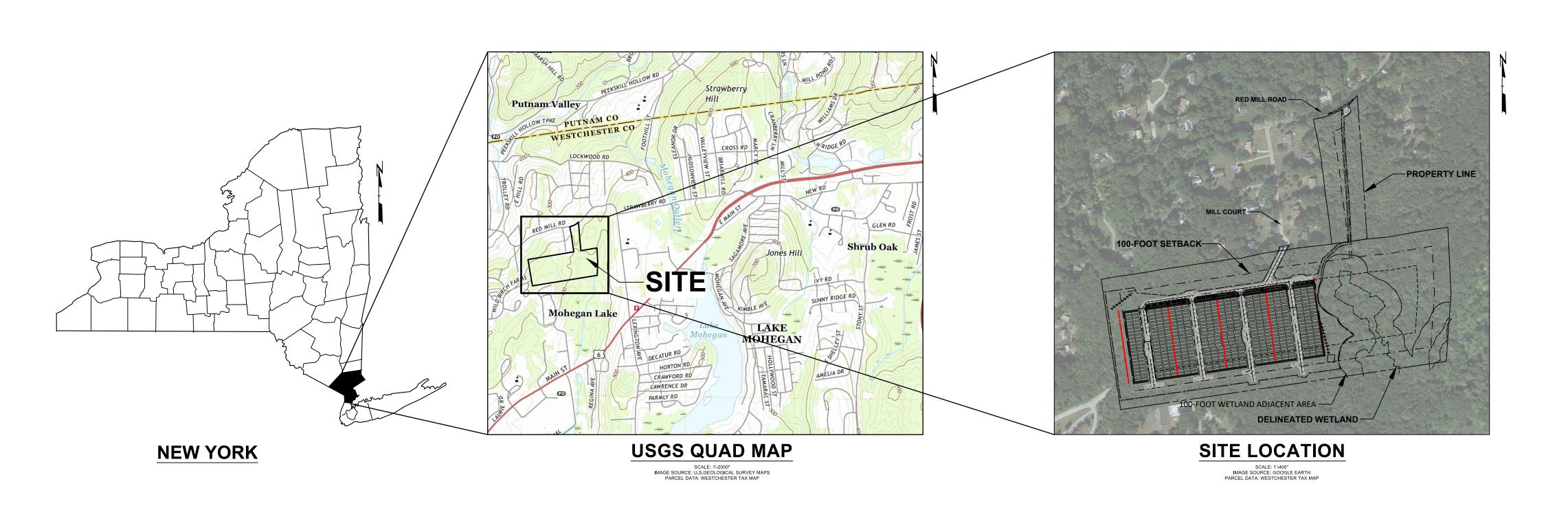
109 WEST 27TH STREET, 8TH FLOOR

NEW YORK, NEW YORK 10001

PREPARED BY: TRC ENGINEERS, INC.

1430 BROADWAY, 10TH FLOOR **NEW YORK, NEW YORK 10018**

DATE: JUNE 2020 - REVISED MARCH 2021



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1430 Broadway, 10th Floor

www.TRCcompanies.com

New York, NY 10018 Phone: 212.221.7822

	SITE DATA	
TAX ID#	PROPERTY OWNER	SITE ADDRESS
13.18-2-2.4	KIRQUEL DEVELOPMENT LTD	0 MILL COURT ROAD
13.14-5-25	PARR PATRICK J & SHARON	CORTLANDT, NY, 10520

SYSTEM SUMMARY

DC SYSTEM SIZE: 4,984.56 KW AC SYSTEM SIZE: 5,000.00 KW

MODULE: HANWHA Q CELLS QPEAK DUO (430W)

MODULE QUANTITY: 11,592

INVERTER: SUNGROW SG125HV (LIMITED TO 50% OUTPUT POWER) **INVERTER QUANTITY: 80**

LAND USE INFORMATION					
LAND USE	UNIT	EXISTING	PROPOSED		
DISTURBED AREA	ACRES	N/A	19.30		
SOLAR AREA	ACRES	N/A	9.06		
WETLAND AREA	ACRES	2.18	2.18		

ZONING DATA CHART - R-40										
(ONE-FAMILY RESIDENCE DISTRICT)										
LOT DESCRIPTIO N	LOT AREA (SF)	LOT WIDTH (FT)	FRONT YARD SETBACK (FT)	SIDE YARD SETBACK (FT)	REAR YARD SETBACK (FT)	BUILDING COVERAGE (SF)	LANDSCAPE COVERAGE (%)	BUILDING HEIGHT (FT)	BUILDING FLOOR AREA (SF)	FLOOR AREA RATIO
REQUIRED/ PERMITTED	40,000 MIN.	150 MIN.	50 MIN.	30' MAX. OR 20% OF WIDTH	30 MIN.	122,494 MAX. *	50% MIN.	2 ^{1/2} STORIES OR 35' MAX.	187,548 MAX. **	0.1 MAX. ***
PROPOSED	1,883,099	811.8 / 2,073.1	202	109.8 / 763.3	150.1		70%			
* BUILDING CO	VERAGE = 659	% OF ALLOWEI	D FLOOR AREA	RATIO = (0.65	* (188,453 / 1,8	883,099)) * 1,88	3,099 = 122,494	1 S.F.		

MAXIMUM FLOOR AREA (MFA) = $7,675 + ((1,883,099) / 1,000) \times 96) = 188,453$ SF PER ZONING REGULATIONS (SEE TABLE OF DIMENSIONAL REGULATIONS, MAXIMUM FLOOR AREA IN RESIDENTIAL DISTRICTS, SECTION 307-17, ATTACHMENT 4, NOTE **) *** FLOOR AREA RATIO = MAXIMUM BUILDING FLOOR AREA / LOT AREA = 188.453 SF / 1.883.099 SF = 0.1

	LOCAL LAW NO.8-2018								
	REGULATION OF SOLAR ENERGY SYSTEMS WITHIN THE TOWN OF CORTLANDT								
LOT DESCRIPTION	LOT SIZE (SF/AC)	FRONT YARD SETBACK (FT)	SIDE YARD SETBACK (FT)	REAR YARD SETBACK (FT)	STRUTURE HEIGHT (FT)	LANDSCAPE COVERAGE (%)	FENCE HEIGHT (FT)		
MINIMUM REQUIRED	435,600 / 10	200	200	200	25' / 2 STORIES	50%	8		
PROPOSED	1,883,099 / 43.12	202 (N)	109.8* (W) / 763.3 (E)	150.1* (S)	9'	70%	8.5		

* - CHAPTER 255-8.A.10.B.2 STATES THE APPROVING AUTHORITY AT ITS DISCRETION MAY VARY THE TIER 3 SOLAR ENERGY SYSTEM SETBACK TO NOT LESS THAN 100 FEET. IN CASES SUCH AS PLANNED HERE WHERE THE SYSTEM IS LOCATED MORE THAN 200 FEET FROM THE NEAREST HABITABLE BUILDING.

GENERAL NOTES

- THE PROJECT HORIZONTAL COORDINATES SYSTEM IS BASED ON NAD83 NEW YORK STATE PLANE (US SURVEY FEET. EAST ZONE, NY83-E). ELEVATIONS ARE BASED ON NAVD88 (US SURVEY FEET)
- TOPOGRAPHY SHOWN ON THESE PLANS WAS COMPLETED BY LAND DESIGN ASSOCIATES ENGINEERING, SURVEYING AND
- LAND ARCHITECTURE D.P.C. USING A BASE & ROVER RTKGPS SYSTEM TO DEVELOP CONTOURS AT A 2 FOOT INTERVAL. 3. PROJECT PROPERTY BOUNDARIES ARE BASED ON INFORMATION PROVIDED BY LAND DESIGN ASSOCIATES ENGINEERING.
- SURVEYING AND LAND ARCHITECTURE D.P.C. LAND SURVEYING FROM A SURVEY COMPLETED IN OCTOBER 2019. 4. EXISTING UTILITIES ARE APPROXIMATE AND SHOULD BE VERIFIED BY CONTRACTOR. DIG SAFELY NEW YORK (811) SHALL BE NOTIFIED A MINIMUM OF 72-HOURS PRIOR TO COMMENCING ANY EXCAVATION.
- THIS IS A PRELIMINARY DESIGN PLAN PROVIDED FOR PERMITTING ONLY. FINAL DESIGN SHALL BE MODIFIED TO SUPPORT CONSTRUCTION, MATCH FINAL ELECTRICAL INTERCONNECTION STUDIES, EQUIPMENT PURCHASED, AND POSSIBLE PERMIT CONSTRAINTS REVEALED DURING PROJECT'S REVIEW.
- 6. ALL WORK DETAILED ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, AND ANY OTHER APPLICABLE TECHNICAL REPORTS. WHERE INDICATED. STATE AND/OR LOCAL CODES AND STANDARD SPECIFICATIONS SHALL APPLY
- 7. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING STATE AND FEDERAL REQUIREMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN OR ADJACENT TO THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE
- CONSTRUCTION SHALL NOT OCCUR IN ANY PUBLIC RIGHTS OF WAY. PUBLIC OR PRIVATE EASEMENTS. BEYOND THE LIMITS OF DISTURBANCE, OR OUTSIDE THE PROPERTY LIMITS WITHOUT NECESSARY PERMITS AND APPROVALS. ANY PUBLIC OR PRIVATE PROPERTY OR IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE COST OF THE CONTRACTOR.
- 10. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT OF WAY. OVERNIGHT PARKING OF CONSTRUCTION VEHICLES ON PRIVATE PROPERTY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 11. ALL PROPERTY CORNERS OR MONUMENTS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF NEW YORK.
- 12. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THE PROJECT.
- 13. CONTRACTOR SHALL FIELD FIT ALL PROPOSED CULVERT INVERTS TO PROVIDE POSITIVE DRAINAGE IN THE DIRECTION OF EXISTING SLOPES. ALL CULVERTS TO BE INSTALLED AT ADEQUATE DEPTHS AND TO DAYLIGHT. INLETS AND OUTLETS OF ALL CULVERTS TO BE STABILIZED WITH RIP RAP IN ACCORDANCE WITH EROSION CONTROL PLAN.
- 14. THE CONTRACTOR SHALL SECURE PERMITS FROM THE STATE, COUNTY, AND TOWN AUTHORITIES AS NECESSARY BEFORE DRIVING CONSTRUCTION EQUIPMENT OVER AND ACROSS STATE, COUNTY OR TOWN MAINTAINED ROADS.
- 15. ALL WORK IN THE PUBLIC RIGHT OF WAYS SHALL CONFORM WITH THE NEW YORK DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS", DATED JANUARY 1, 2019 OR CURRENT EDITION.
- 16. WETLANDS AND WATERCOURSES SHOWN IN THIS PLAN ARE SUBJECT TO FUTURE CONFIRMATION BY NYSDEC
- 17. THE EROSION AND SEDIMENTATION CONTROL MEASURES FOR THIS PROJECT SHALL BE IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THE PROJECT
- 18. TREES AND OTHER VEGETATION IN AREAS OF IDENTIFIED CLEARING AND GRUBBING MAY BE REDUCED TO CHIPS BY THE USE OF CHIPPING MACHINES OR STUMP GRINDER AND BE PREPARED FOR USE AS EROSION CONTROL MIX. ALL OTHER CHIPS AND WOOD WASTE RESULTING FROM CLEARING AND GRUBBING OPERATIONS SHALL BE DISPOSED OF OFF-SITE AT AN APPROPRIATELY LICENSED FACILITY AND IN A MANNER AS APPROVED BY THE OWNER
- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING IMPROVEMENTS AND FACILITIES TO REMAIN IN PLACE. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR AND REPLACEMENT OF DAMAGED ITEMS AS A RESULT OF CONSTRUCTION OF THE PROPOSED FACILITY.
- 20. THE WORK SHALL BE CARRIED OUT NEAR AND UNDER ENERGIZED EQUIPMENT. EXTREME CAUTION IS REQUIRED AT ALL TIMES. THE CONTRACTOR SHALL STRICTLY FOLLOW ALL APPLICABLE SAFETY REQUIREMENTS.
- 21. EARTHWORK: UNLESS EXPLICITLY STATED OTHERWISE, REFER TO THE LATEST EDITION OF THE STATE OF NEW YORK, DEPARTMENT OF TRANSPORTATION, STANDARDS SPECIFICATIONS, CONSTRUCTION AND MATERIALS, FOR GENERAL REQUIREMENTS, PRODUCTS, AND EXECUTION RELATED TO THE COMPLETION OF PROPOSED WORK.
- 22. THE LIMITS OF DISTURBANCE SHALL BE FIELD STAKED BY A LICENSED LAND SURVEYOR PRIOR TO THE START OF WORK. A COPY OF THE STAKEOUT SKETCH SHALL BE PROVIDED TO THE TOWN OF CORTLANDT.
- 23. PRIOR TO THE ISSUANCE OF A BUILDING PERMIT, THE APPLICANT SHALL SUBMIT A NOTICE OF INTENT (N.O.I.) TO THE NYSDEC AND PROVIDE PROOF OF COVERAGE UNDER THE SPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES TO THE TOWN OF CORTLANDT.
- 24. ANY IMPORTED SOIL SHALL MEET THE NYSDEC STANDARDS OF UNRESTRICTED FILL AND BE SUITABLE FOR RESIDENTIAL USE. CONSTRUCTION DEBRIS IS NOT PERMITTED TO BE IMPORTED. ANY MATERIAL MEETING THE NYSDEC DEFINITION OF BENEFICIAL USE SHALL BE CERTIFIED AS SUCH BY THE DESIGN PROFESSIONAL OF RECORD. NOTIFY THE TOWN OF CORTLANDT PRIOR TO IMPORT. SOIL TESTING MAY STILL BE REQUIRED
- 25. PRIOR TO THE BACKFILLING OF ANY STORM WATER BEST MANAGEMENT PRACTICE, DOTS-ENGINEERING SHALL BE NOTIFIED TO PERFORM AN INSPECTION. CONTACT ENGINEERING AT 914-734-1060 TO SCHEDULE AN INSPECTION.
- 26. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, THE ENGINEER/ARCHITECT SHALL SUBMIT A CERTIFICATION ADDRESSED TO "THE TOWN OF CORTLANDT DEPARTMENT OF TECHNICAL SERVICES" THAT THE SITE WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS ON FILE WITH THE TOWN AND THAT THERE IS NO ADVERSE IMPACTS TO ADJACENT AND ADJOINING NEIGHBORS AS IT PERTAINS TO DRAINAGE AND RUNOFF.
- 27. THE APPLICANT IS AWARE THAT THE ENTIRE SITE MUST BE 100% STABILIZED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. DISTURBED AREAS SHALL BE RESTORED AND STABILIZED APPROPRIATELY AND IN A TIMELY MANNER. APPLICANT SHALL SUBMIT A NOTICE OF TERMINATION FOR THE SPDES GENERAL PERMIT.
- 28. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, AN "AS-BUILT" SURVEY PREPARED BY A LICENSED PROFESSIONAL LAND SURVEYOR OF THE PROPERTY SHALL BE SUBMITTED TO THE DEPARTMENT OF TECHNICAL SERVICES.
- 29. NO RECYCLED MATERIAL (C&D) SHALL BE BROUGHT TO THE SITE WITHOUT PRIOR TOWN OF CORTLANDT WRITTEN ACKNOWLEDGEMENT. ALL RECYCLED MATERIAL MUST BE COMPLIANT WITH THE NYSDEC'S BENEFICIAL USE DETERMINATION AND BE UNCONTAMINATED.
- 30. ALL DEMOLITION DEBRIS INCLUDING FOUNDATIONS AND SLABS SHALL BE LAWFULLY DISPOSED OF OFF-SITE.
- 31. ELECTRICAL DESIGN PROVIDED HEREON WAS PREPARED BY CVE NA.

NOTE: UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

NOT FOR CONSTRUCTION







rawn by: A. REXROAT

A. REXROAT

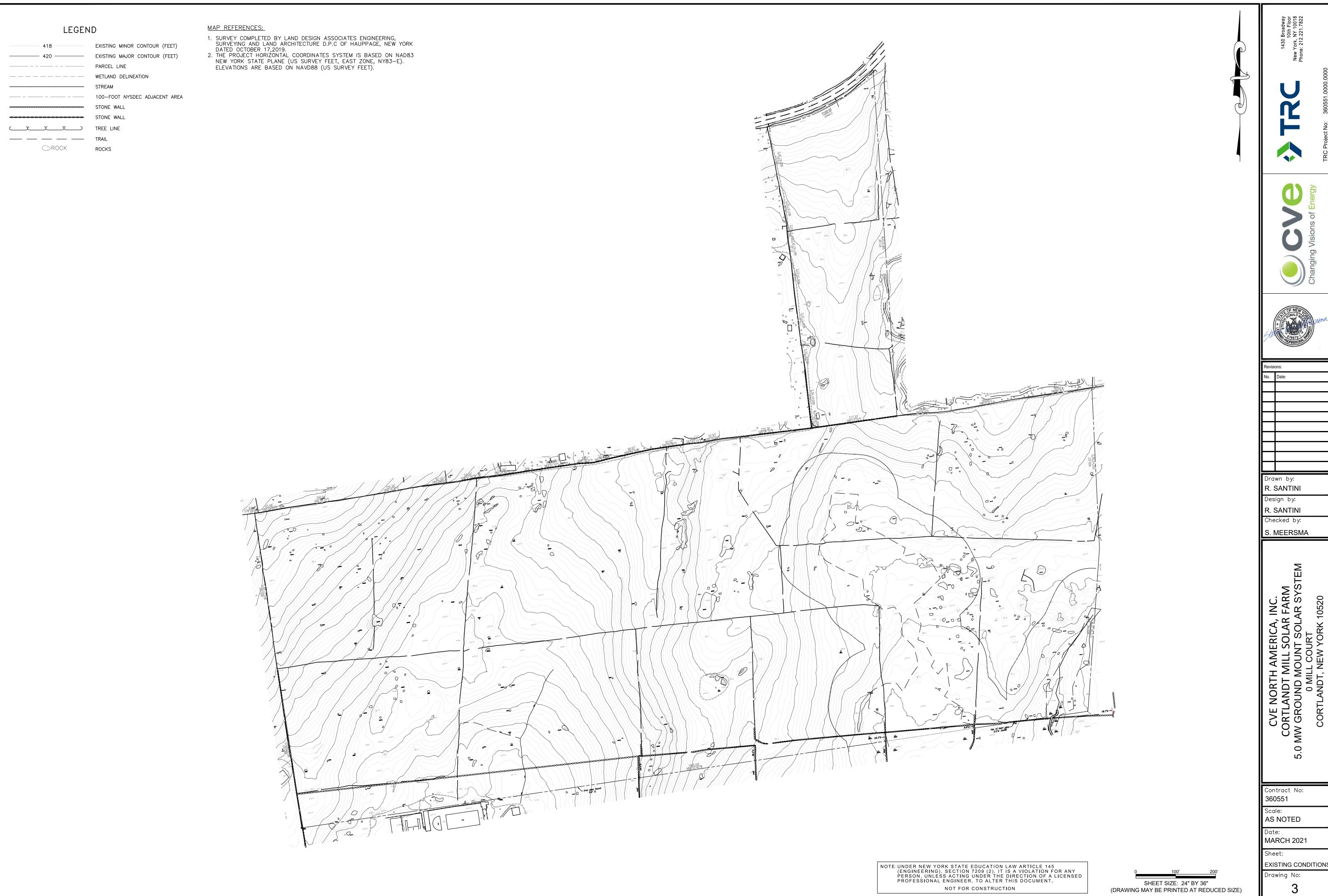
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AS NOTED

MARCH 2021 GENERAL NOTES

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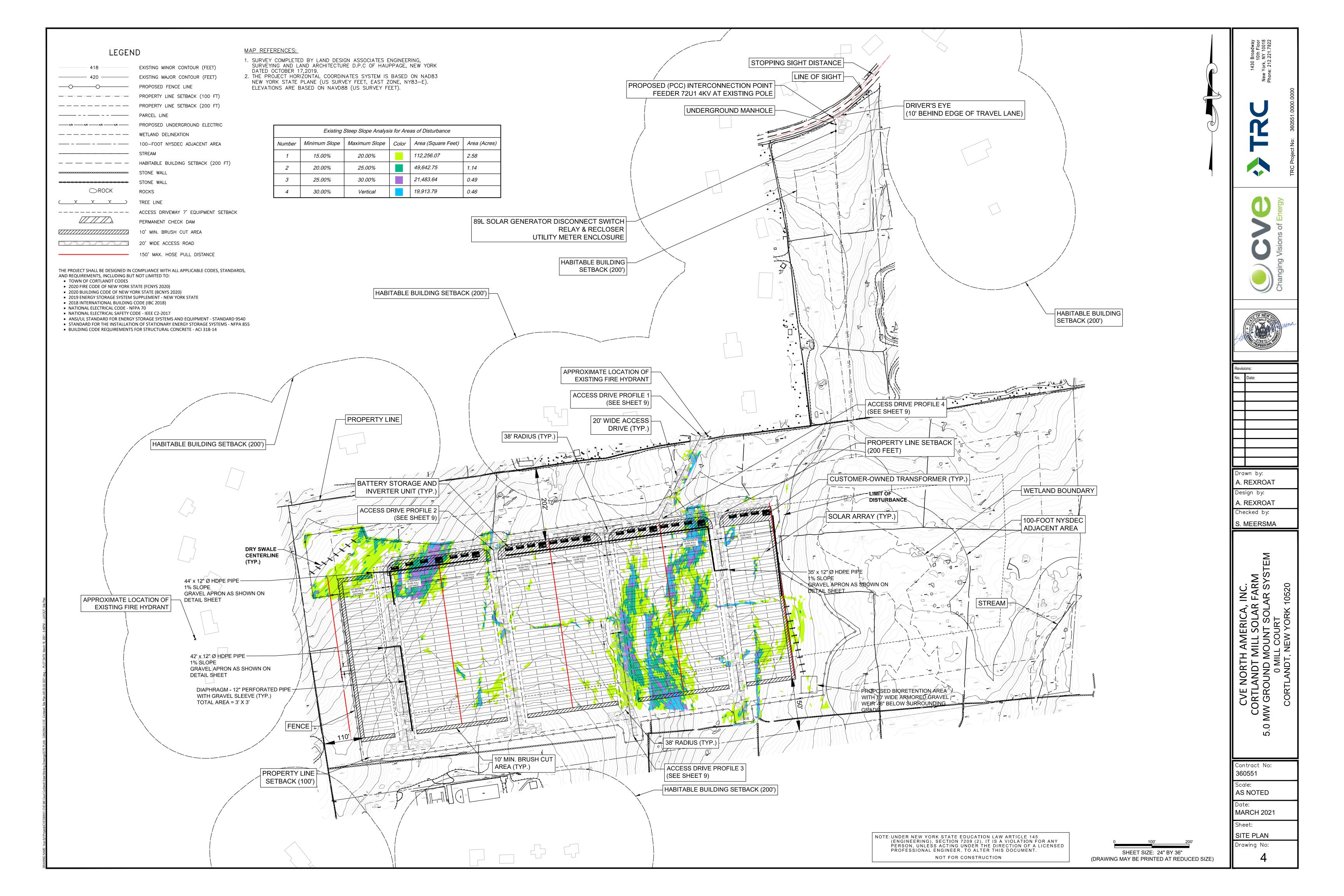
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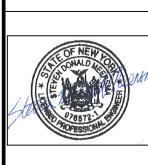
MARCH 2021

EXISTING CONDITIONS



LEGEND ---- LOD ------ LOD ----- LIMIT OF DISTURBANCE 418 EXISTING MINOR CONTOUR (FEET) — — — — — — WETLAND DELINEATION ———— STREAM ○ROCK ---- TRAIL STONE WALL TREE LINE TREES TO BE REMOVED STONE WALLS TO BE REMOVED STONE WALLS TO BE REMOVED ROCK ROCKS TO BE REMOVED ---- REMOVED TRAIL LIMIT OF TREE REMOVAL MAP REFERENCES: 1. SURVEY COMPLETED BY LAND DESIGN ASSOCIATES ENGINEERING, SURVEYING AND LAND ARCHITECTURE D.P.C OF HAUPPAGE, NEW YORK DATED OCTOBER 17,2019. 2. THE PROJECT HORIZONTAL COORDINATES SYSTEM IS BASED ON NAD83 NEW YORK STATE PLANE (US SURVEY FEET, EAST ZONE, NY83-E). ELEVATIONS ARE BASED ON NAVD88 (US SURVEY FEET). NOTE:UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.





Drawn by: R. SANTINI Design by: R. SANTINI

Checked by:

S. MEERSMA

CVE NORTH AMERICA, INC.
CORTLANDT MILL SOLAR FARM
O MOUNT SOLAR SYSTEM
O MILL COURT
CORTLANDT, NEW YORK 10520 5.0

Contract No: 360551

Scale: AS NOTED

MARCH 2021

Sheet: DEMOLITION PLAN

Drawing No:

SHEET SIZE: 24" BY 36" (DRAWING MAY BE PRINTED AT REDUCED SIZE)

NOT FOR CONSTRUCTION

LEGEND ---- LOD ------ LOD ----- LIMIT OF DISTURBANCE 418 EXISTING MINOR CONTOUR (FEET) — — — — — — WETLAND DELINEATION ---- STREAM ○ROCK ROCKS ---- TRAIL STONE WALL TREE LINE TREES TO BE REMOVED STONE WALLS TO BE REMOVED STONE WALLS TO BE REMOVED ○ROCK ROCKS TO BE REMOVED ---- REMOVED TRAIL AREAS OF DISTURBANCE NOT INCLUDED IN PREVIOUS TREE SURVEY AREA OF 25% OR GREATER EXISTING SLOPE WITHIN AREAS OF DISTURBANCE MAP REFERENCES: SURVEY COMPLETED BY LAND DESIGN ASSOCIATES ENGINEERING, SURVEYING AND LAND ARCHITECTURE D.P.C OF HAUPPAGE, NEW YORK DATED OCTOBER 17,2019. THE PROJECT HORIZONTAL COORDINATES SYSTEM IS BASED ON NAD83 NEW YORK STATE PLANE (US SURVEY FEET, EAST ZONE, NY83-E). ELEVATIONS ARE BASED ON NAVD88 (US SURVEY FEET).

Total Acreage of Revised LOD	19.3	Acres
Acreage of June LOD in Bartlett Tree Survey	19.5	Acres
Number of Trees in June LOD surveyed	4208	Trees
Acreage of June LOD in Bartlett Survey with slopes greater than 25%	0.92	Acres
Number of Trees on slopes greater than 25%	156	Trees
Acreage of Revised LOD not in Bartlett Tree Survey	1.3	Acres
Estimated number of Trees not in Bartlett Tree Survey	281	Trees
Acreage of Revised LOD not in Bartlett Tree Survey on slopes greater than 25%	0.06	Acres
Estimated number of trees on slopes greater than 25% not in Bartlett Tree Survey	10	Trees
TOTAL Number Trees within Revised LOD – surveyed and estimated	3396	Trees
TOTAL number of trees within Revised LOD – on slopes greater than 25% (surveyed and estimated)	166	Trees

NOTE: NUMBERS ON TREE PLAN REFERENCE A TREE IDENTIFICATION NUMBER IN BARTLETT SURVEY.



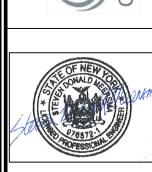












Revisi	ons:
No.	Date:

Drawn by:
R. SANTINI
Design by:
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R. SANT	INI
Checked	by:

S.	MEERSMA

CVE NORTH A CORTLANDT M MW GROUND MC

Contract No: 360551

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AS NOTED

MARCH 2021 Sheet:

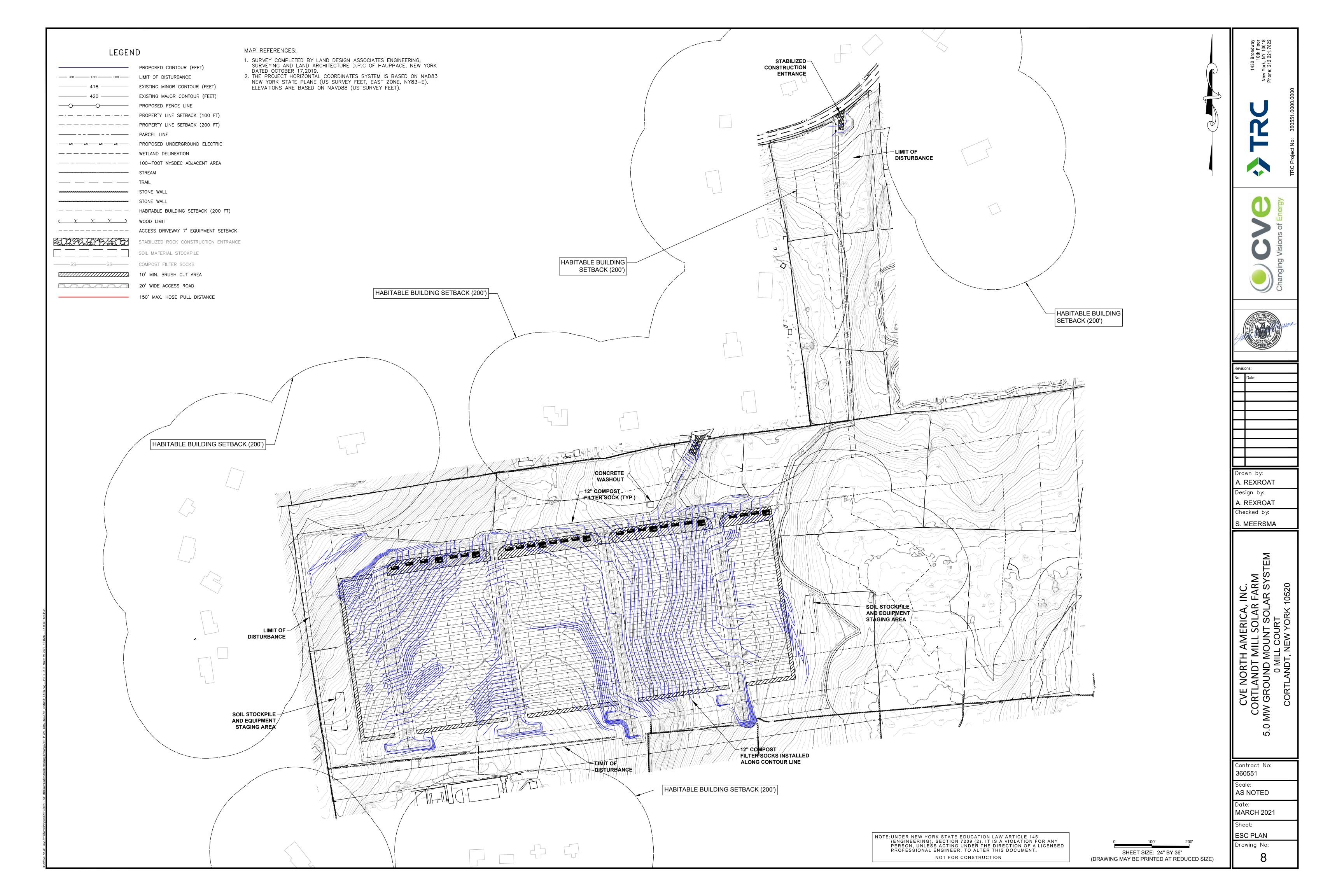
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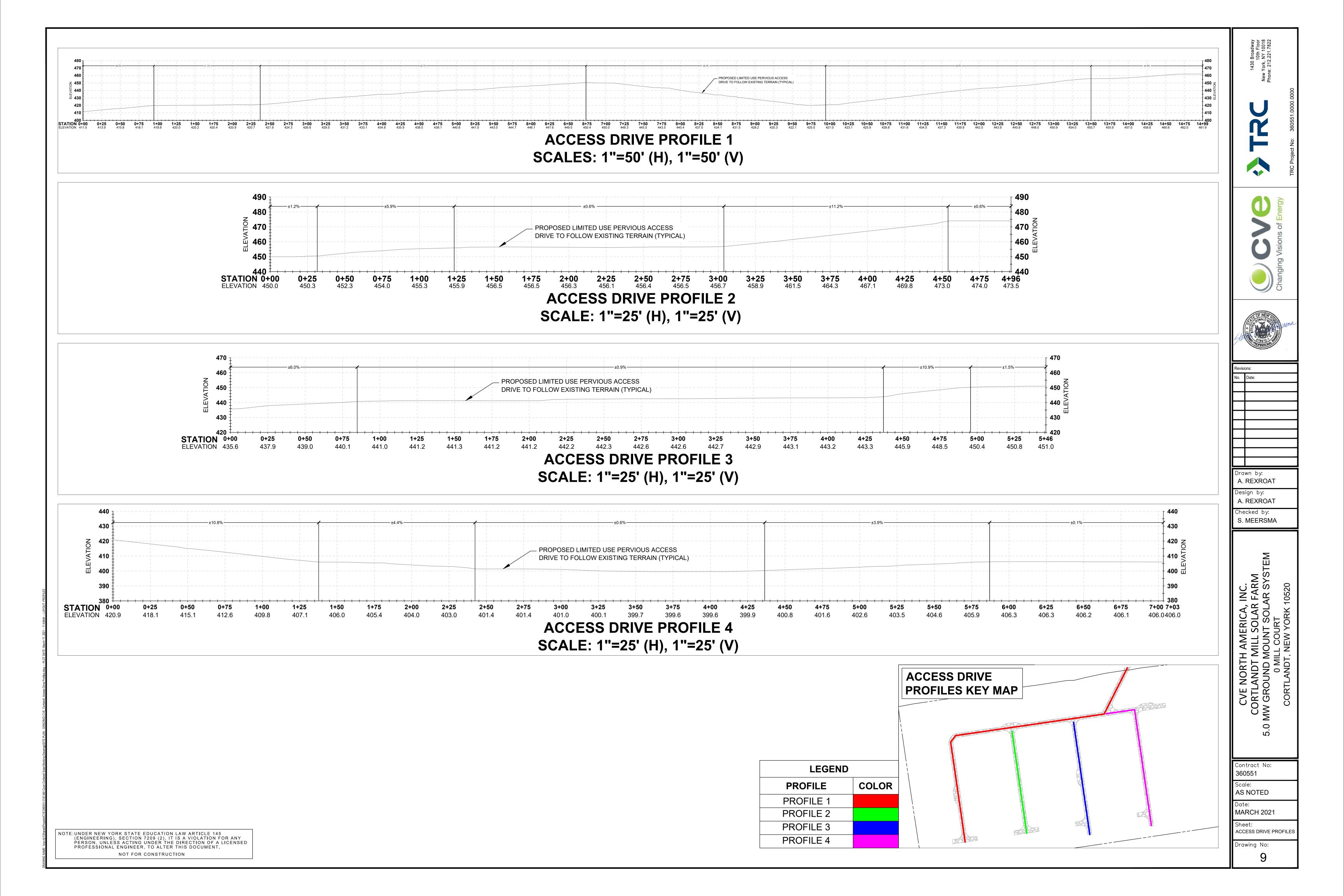
SHEET SIZE: 24" BY 36" (DRAWING MAY BE PRINTED AT REDUCED SIZE)

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MAP REFERENCES: LEGEND 1. SURVEY COMPLETED BY LAND DESIGN ASSOCIATES ENGINEERING, SURVEYING AND LAND ARCHITECTURE D.P.C OF HAUPPAGE, NEW YORK PROPOSED CONTOUR (FEET) DATED OCTOBER 17,2019. 2. THE PROJECT HORIZONTAL COORDINATES SYSTEM IS BASED ON NAD83 --- LOD ---- LOD --- LIMIT OF DISTURBANCE NEW YORK STATE PLANE (US SURVEY FEET, EAST ZONE, NY83-E). EXISTING MINOR CONTOUR (FEET) ELEVATIONS ARE BASED ON NAVD88 (US SURVEY FEET). EXISTING MAJOR CONTOUR (FEET) STOPPING SIGHT DISTANCE LINE OF SIGHT PROPOSED (PCC) INTERCONNECTION POINT — — — — — PROPERTY LINE SETBACK (200 FT) FEEDER 72U1 4KV AT EXISTING POLE DRIVER'S EYE UNDERGROUND MANHOLE (10' BEHIND EDGE OF TRAVEL LANE) — — — — — WETLAND DELINEATION —— – —— – —— 100-FOOT NYSDEC ADJACENT AREA STONE WALL 10' MIN. BRUSH CUT AREA 20' WIDE ACCESS ROAD --- 150' MAX. HOSE PULL DISTANCE 89L SOLAR GENERATOR DISCONNECT SWITCH **RELAY & RECLOSER** UTILITY METER ENCLOSURE STEEP SLOPE CONSTRUCTION NOTES: DISTURBANCE OR ALTERATION OF AREAS WITH STEEP SLOPES SHALL ADDITIONALLY BE IN CONFORMANCE WITH THE FOLLOWING PROVISIONS: 1. THE PLANNING, DESIGN AND DEVELOPMENT OF BUILDINGS SHALL PROVIDE THE MAXIMUM IN STRUCTURAL SAFETY, SLOPE STABILITY AND HUMAN ENJOYMENT WHILE ADAPTING THE AFFECTED SITE TO, AND TAKING ADVANTAGE OF, THE BEST USE OF THE NATURAL TERRAIN AND AESTHETIC CHARACTER. 2. THE TERRACING OF BUILDING SITES, INCLUDING THE MOUNDING OF SEPTIC TILE FIELDS, SHALL BE KEPT TO AN ABSOLUTE MINIMUM. 3. ROADS AND DRIVEWAYS SHALL FOLLOW THE NATURAL TOPOGRAPHY TO THE GREATEST EXTENT POSSIBLE IN ORDER TO MINIMIZE THE POTENTIAL FOR EROSION AND SHALL BE CONSISTENT WITH ALL OTHER APPLICABLE ORDINANCES AND REGULATIONS OF THE TOWN OF CORTLANDT AND CURRENT ENGINEERING PRACTICES. 4. REPLANTING SHALL CONSIST OF INDIGENOUS VEGETATION AND SHALL REPLICATE THE ORIGINAL VEGETATION ON THE SITE AS MUCH AS POSSIBLE. 5. THE NATURAL ELEVATIONS AND VEGETATIVE COVER OF RIDGELINES SHALL BE DISTURBED ONLY IF THE CREST OF A RIDGE AND THE TREE LINE AT THE RIDGE REMAIN UNINTERRUPTED. THIS MAY BE ACCOMPLISHED EITHER BY POSITIONING BUILDINGS AND AREAS OF DISTURBANCE BELOW A RIDGELINE OR BY POSITIONING BUILDINGS AND AREAS OF DISTURBANCE AT A RIDGELINE SO THAT THE ELEVATION OF THE ROOFLINE OF THE BUILDING IS NO GREATER THAN THE ELEVATION OF THE NATURAL TREE LINE. HOWEVER, UNDER NO CIRCUMSTANCES SHALL MORE THAN 100 FEET ALONG THE RIDGELINE, TO A WIDTH OF 100 FEET GENERALLY CENTERED ON THE RIDGELINE, BE DISTURBED. 6. ANY REGRADING SHALL BLEND IN WITH THE NATURAL CONTOURS AND UNDULATIONS OF THE LAND. 7. CUTS AND FILLS SHALL BE ROUNDED OFF TO ELIMINATE SHARP ANGLES AT THE TOP, BOTTOM AND SIDES OF REGRADED SLOPES. VISIBLE CONSTRUCTION CUTS AND PERMANENT SCARRING SHOULD BE MINIMIZED. 8. THE ANGLE OF CUT AND FILL SLOPES SHALL NOT EXCEED A SLOPE OF ONE VERTICAL TO TWO HORIZONTAL EXCEPT WHERE RETAINING WALLS, STRUCTURAL STABILIZATION OR OTHER METHODS ACCEPTABLE TO THE DIRECTOR OF TECHNICAL SERVICES ARE USED. APPROXIMATE LOCATION OF 9. TOPS AND BOTTOMS OF CUT AND FILL SLOPES SHALL BE SET BACK FROM STRUCTURES A DISTANCE THAT WILL ENSURE THE SAFETY OF THE STRUCTURE IN THE EVENT EXISTING FIRE HYDRANT OF THE COLLAPSE OF THE CUT OR FILL SLOPES, GENERALLY, SUCH DISTANCE SHALL BE CONSIDERED TO BE SIX FEET PLUS 1/2 THE HEIGHT OF THE CUT OR FILL. NEVERTHELESS, A STRUCTURE BUILT ON A SLOPE OR AT THE TOE OF A SLOPE IS PERMITTED IF IT IS PROPERLY DESIGNED TO RETAIN THE SLOPE AND WITHSTAND THE FORCES EXERTED ON IT BY THE RETAINED SLOPE. ACCESS DRIVE PROFILE 1 - ACCESS DRIVE PROFILE 4 10. DISTURBANCE OF ROCK OUTCROPS SHALL BE BY MEANS OF EXPLOSIVE ONLY IF LABOR AND MACHINES ARE NOT EFFECTIVE AND ONLY IF ROCK BLASTING IS (SEE SHEET 9) CONDUCTED IN ACCORDANCE WITH ALL APPLICABLE LAWS AND REGULATIONS OF THE TOWN OF CORTLANDT, COUNTY OF WESTCHESTER, AND THE STATE OF NEW (SEE SHEET 9) PROPERTY LINE 20' WIDE ACCESS | 11. DISTURBANCE OF STEEP SLOPES SHALL BE UNDERTAKEN IN WORKABLE UNITS IN WHICH THE DISTURBANCE CAN BE COMPLETED AND STABILIZED IN ONE CONSTRUCTION SEASON SO THAT AREAS ARE NOT LEFT BARE AND EXPOSED DURING THE WINTER AND SPRING THAW PERIODS (DECEMBER 15 THROUGH APRIL 15). DRIVE (TYP.) 12. DISTURBANCE OF EXISTING VEGETATIVE GROUND COVER SHALL NOT TAKE PLACE MORE THAN 15 DAYS PRIOR TO GRADING AND CONSTRUCTION. 38' RADIUS (TYP.) Drawn by: 13. TEMPORARY SOIL STABILIZATION, INCLUDING, IF APPROPRIATE, TEMPORARY STABILIZATION MEASURES SUCH AS NETTING OR MULCHING TO SECURE SOIL DURING PROPERTY LINE SETBACK A. REXROAT THE GROW-IN PERIOD, MUST BE APPLIED TO AN AREA OF DISTURBANCE WITHIN TWO DAYS OF ESTABLISHING THE FINAL GRADE, AND PERMANENT STABILIZATION MUST (200 FEET) BE APPLIED WITHIN 15 DAYS OF ESTABLISHING THE FINAL GRADE. Design by: 14. SOIL STABILIZATION MUST BE APPLIED WITHIN TWO DAYS OF DISTURBANCE IF THE FINAL GRADE IS NOT EXPECTED TO BE ESTABLISHED WITHIN 60 DAYS. A. REXROAT 15. MEASURES FOR THE CONTROL OF EROSION AND SEDIMENTATION SHALL BE UNDERTAKEN CONSISTENT WITH THE WESTCHESTER COUNTY SOIL AND WATER CONSERVATION DISTRICT'S BEST MANAGEMENT PRACTICES MANUAL FOR EROSION AND SEDIMENT CONTROL AND NEW YORK STATE GUIDELINES FOR URBAN EROSION Checked by: CUSTOMER-OWNED TRANSFORMER (TYP.) BATTERY STORAGE AND AND SEDIMENT CONTROL, AS AMENDED, OR THEIR EQUIVALENTS SATISFACTORY TO THE APPROVAL AUTHORITY S. MEERSMA 16. ALL PROPOSED DISTURBANCE OF STEEP SLOPES SHALL BE UNDERTAKEN WITH CONSIDERATION OF THE SOILS LIMITATIONS CHARACTERISTICS CONTAINED IN THE WETLAND BOUNDARY INVERTER UNIT (TYP.) IDENTIFICATION LEGEND, WESTCHESTER COUNTY SOILS SURVEY, 1989, AS PREPARED BY THE WESTCHESTER COUNTY SOIL AND WATER CONSERVATION DISTRICT, IN TERMS OF RECOGNITION OF LIMITATION OF SOILS ON STEEP SLOPES FOR DEVELOPMENT AND APPLICATION OF ALL MITIGATING MEASURES AND AS DEEMED **ACCESS DRIVE PROFILE 2** NECESSARY BY THE APPROVAL AUTHORITY. SOLAR ARRAY (TYP.) 17. TOPSOIL SHALL BE STRIPPED FROM ALL AREAS OF DISTURBANCE, STOCKPILED AND STABILIZED IN A MANNER TO MINIMIZE EROSION AND SEDIMENTATION AND (SEE SHEET 9 ARM SYSTEM 100-FOOT NYSDEC REPLACED ELSEWHERE ON THE SITE AT THE TIME OF FINAL GRADING. STOCKPILING SHALL NOT BE PERMITTED ON SLOPES OF GREATER THAN 10%. ADJACENT AREA 18. NO ORGANIC MATERIAL OR ROCK WITH A SIZE THAT WILL NOT ALLOW APPROPRIATE COMPACTION OR COVER BY TOPSOIL SHALL BE USED AS FILL MATERIAL. FILL MATERIAL SHALL BE NO LESS GRANULAR THAN THE SOIL UPON WHICH IT IS PLACED AND SHALL DRAIN READILY. 19. COMPACTION OF FILL MATERIALS IN FILL AREAS SHALL BE SUCH TO ENSURE SUPPORT OF PROPOSED STRUCTURES AND STABILIZATION FOR INTENDED USES. APPROXIMATE LOCATION OF STREAM EXISTING FIRE HYDRANT CVE NC ORTLAN GROUI 0 FENCE Contract No: 360551 🖟 38' RADIUS (TYP. Scale: **AS NOTED** 0 MIN. BRUSH CUT ACCESS DRIVE PROFILE 3 PROPERTY LINE (SEE SHEET 9) **MARCH 2021** SETBACK (100') Sheet: **GRADING PLAN** NOTE: UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT. Drawing No: SHEET SIZE: 24" BY 36" NOT FOR CONSTRUCTION

(DRAWING MAY BE PRINTED AT REDUCED SIZE)







GENERAL LANDSCAPE AND SEEDING NOTES

- THE LANDSCAPE PLAN AND DETAILS ARE FOR LANDSCAPING INFORMATION ONLY. PLEASE REFER TO THE SITE LAYOUT PLAN, GRADING PLAN AND/OR UTILITIES PLAN FOR ALL OTHER INFORMATION.
- 2. THE CONTRACTOR SHALL MONITOR AND GUARANTEE THAT ALL PLANTS, TREES, AND SHRUBS SHALL BE HEALTHY AND FREE OF DISEASE FOR THE LIFETIME OF THE PROJECT AFTER SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER. CONTRACTOR SHALL REPLACE ANY DEAD OR UNHEALTHY PLANTS AT CONTRACTOR'S EXPENSE. FINAL ACCEPTANCE SHALL BE MADE IF ALL PLANTS MEET THE GUARANTEE REQUIREMENTS INCLUDING MAINTENANCE. MAINTENANCE RESPONSIBILITIES INCLUDE INVASIVE SPECIES MONITORING, REMOVAL, AND SUPPLEMENTATION. MONITORING OF THE PROJECT SITE SHALL OCCUR IN THE SPRING AND THE FALL TO DETERMINE THE PRESENCE OF INVASIVE SPECIES. SHOULD ANY INVASIVE SPECIES BE IDENTIFIED WITHIN THE PROJECT SITE, THE INVASIVE SPECIES SHALL BE REMOVED ACCORDING TO METHODS MOST LIKELY TO BE EFFECTIVE IN CONTROLLING THAT SPECIES AND SUPPLEMENTING ITS REPLACEMENT WITH APPROPRIATE VEGETATION AND SEED MIX IDENTIFIED (AND APPROVED) ON THIS PLAN AND/OR AN APPROVED EQUAL. ADDITIONAL MAINTENANCE RESPONSIBILITIES INCLUDE: APPROVED CULTIVATING, SPRAYING, WEEDING, WATERING, TIGHTENING OF TREE STRAP GUYS, PRUNING, FERTILIZING, MULCHING, AND ANY OTHER OPERATIONS NECESSARY TO MAINTAIN PLANT VIABILITY. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND CONTINUE FOR THE DURATION OF SOLAR ARRAY USE BY THE OWNER/OPERATOR AFTER FINAL ACCEPTANCE. WATERING OF THE LANDSCAPE BUFFER AREAS SHALL BE IMPLEMENTED BY THE USE OF A WATERING TRUCK.
- THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, APPROVED SEEDING MIX, AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWING(S) AND LISTED IN THE PLANT SCHEDULE(S) AND/OR SEEDING TABLE(S). IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT SCHEDULE AND/OR SEEDING TABLE AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER SHALL APPLY. ALL PLANTS SHALL BE ACCLIMATED BY THE SUPPLY NURSERY TO THE LOCAL HARDINESS ZONE AND BE CERTIFIED THAT THE PLANTING MATERIAL HAS BEEN GROWN FOR A MINIMUM OF (2) TWO YEARS AT THE SOURCE AND OBTAINED WITHIN 200 MILES OF PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT.
- 4. THE LOCATIONS FOR PLANT MATERIAL ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO SLOPE, VEGETATION, AND SITE FACTORS SUCH AS THE LOCATION OF ROCK OUTCROPS. PRIOR TO PLANTING THE CONTRACTOR SHALL ACCURATELY STAKE OUT THE LOCATIONS FOR ALL PLANTS. THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT SHALL APPROVE THE FIELD LOCATIONS OR ADJUSTMENTS OF THE PLANT MATERIAL.
- 5. ALL SHRUB MASSING SHALL BE MULCHED TO A DEPTH OF 2" AND SHREDDED HARDWOOD BARK MULCH SHALL BE USED FOR SHRUB MASSING AREAS.
- S. NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE CONTRACTOR. STAKING THE LOCATION OF ALL TREES AND SHRUBS SHALL BE COMPLETED PRIOR TO PLANTING FOR APPROVAL BY THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT. STAKING OF THE INSTALLED TREE MUST BE COMPLETED THE SAME DAY AS IT IS INSTALLED. ALL TREES SHALL BE STAKED OR GUYED AS PER THE DETAIL. SEE LANDSCAPING PLAN(S) FOR PLANTING DETAILS.
- COORDINATE PLANT MATERIAL LOCATIONS WITH SITE UTILITIES. SEE SITE LAYOUT, GRADING AND/OR UTILITY PLANS FOR STORM, SANITARY, GAS, ELECTRIC, TELEPHONE AND WATER LINES. UTILITY LOCATIONS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.
- 3. LANDSCAPE PLANTING PITS MUST BE FREE DRAINING. PAVEMENT, COMPACTED SUBGRADE, AND BLASTED ROCK SHALL BE REMOVED TO A DEPTH OF 2' OR TO A GREATER DEPTH IF REQUIRED BY PLANTING DETAILS OR SPECIFICATIONS. REPLACE SOIL WITH MODERATELY COMPACTED LOAM OR SANDY LOAM FREE FROM STONES AND RUBBISH 1" OR GREATER IN DIAMETER AND ANY OTHER MATERIAL HARMFUL TO PLANT GROWTH AND DEVELOPMENT. PLANTING INSTALLATION SHALL BE AS DETAILED AND CONTAIN PLANTING MIX AS SPECIFIED UNLESS RECOMMENDED OTHERWISE BY SOIL ANALYSIS.

PLANTING SOIL MIXTURE: 2 PARTS PEAT MOSS

5 PARTS TOPSOIL MYCORHIZA INOCULANT - "TRANSPLANT 1-STEP" AS MANUFACTURED BY ROOTS, INC. OR APPROVED EQUAL. USE PER MANUFACTURER'S RECOMMENDATIONS FOR TREES AND SHRUBS. FERTILIZER/LIME APPLY AS RECOMMENDED BY SOIL ANAYLSIS

- TREES, AND SHRUBS: TREES AND SHRUBS SHALL BE NURSERY GROWN UNLESS OTHERWISE NOTED AND HARDY UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCATION OF THE PROJECT. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL HABIT OF GROWTH. THEY SHALL BE SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE. THEY SHALL HAVE HEALTHY AND WELL-DEVELOPED ROOT SYSTEMS. ALL TREES SHALL HAVE STRAIGHT SINGLE TRUNKS WITH THEIR MAIN LEADER INTACT UNLESS OTHERWISE STATED. THE OWNER, CERTIFIED LANDSCAPE INSPECTOR LANDSCAPE ARCHITECT SHALL ONLY PERMIT SUBSTITUTIONS UPON WRITTEN APPROVAL. THEIR SIZES SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE DRAWINGS. PLANTS LARGER THAN SPECIFIED ON THE DRAWINGS MAY BE USED IF APPROVED. THE USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. ALL TREES AND SHRUBS SHALL BE MULCHED IN ACCORDANCE WITH THE RESPECTIVE PLANTING DETAIL(S) PROVIDED IN THE LANDSCAPING PLAN.
- ALL PRUNING SHALL CONFORM TO THE TREE CARE INDUSTRY ASSOCIATION (TCIA) ANSI A300 (PART 1) - 2017 PRUNING STANDARDS. PRUNING STANDARDS SHALL RECOGNIZE BUT, ARE NOT LIMITED TO, THE FOLLOWING PRUNING OBJECTIVES: MANAGE RISK, MANAGE HEALTH, DEVELOP STRUCTURE, PROVIDE CLEARANCE, MANAGE SIZE OR SHAPE, IMPROVE AESTHETICS, MANAGE PRODUCTION OF FRUIT FLOWERS, OR OTHER PRODUCTS, AND OR MANAGE WILDLIFE HABITAT. DEVELOPING STRUCTURE SHALL IMPROVE BRANCH AND TRUNK ARCHITECTURE, PROMOTE OR SUBORDINATE CERTAIN LEADERS, STEMS. OR BRANCHES; PROMOTE DESIRABLE BRANCH SPACING; PROMOTE OR DISCOURAGE GROWTH IN A PARTICULAR DIRECTION (DIRECTIONAL PRUNING); MINIMIZE FUTURE INTERFERENCE WITH TRAFFIC, LINES OF SIGHT, INFRASTRUCTURE, OR OTHER PLANTS; RESTORE PLANTS FOLLOWING DAMAGE; AND/OR REJUVENATE SHRUBS. PROVIDING CLEARANCE SHALL ENSURE SAFE AND RELIABLE UTILITY SERVICES MINIMIZE CURRENT INTERFERENCE WITH TRAFFIC, LINES OF SITE, INFRASTRUCTURE, OR OTHER PLANTS; RAISE CROWN(S) FOR MOVEMENT OF TRAFFIC OR LIGHT PENETRATION; ENSURE LINES OF SIGHT OR DESIRED VIEWS; PROVIDE ACCESS TO SITES, BUILDINGS, OR OTHER STRUCTURES; AND/OR COMPLY WITH REGULATIONS.
- TOPSOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4 INCHES. CONTRACTOR SHALL SUBMIT TOPSOIL TO A CERTIFIED TESTING LABORATORY TO DETERMINE PH, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. THE CONTRACTOR SHALL SUBMIT THE TEST RESULTS FROM REGIONAL EXTENSION OFFICE OF USDA TO THE OWNER, CERTIFIED LANDSCAPE INSPECTOR, OR LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR GOOD PLANT GROWTH AND PROPER SOIL ACIDITY RECOMMENDED FROM THE TOPSOIL TEST.
- NO PHOSPHOROUS SHALL BE USED AT PLANTING TIME UNLESS SOIL TESTING HAS BEEN COMPLETED AND TESTED BY A HORTICULTURAL TESTING LAB AND SOIL TESTS SPECIFICALLY INDICATE A PHOSPHOROUS DEFICIENCY THAT IS HARMFUL, OR WILL PREVENT NEW LAWNS/GRASSES AND PLANTINGS FROM ESTABLISHING PROPERLY.
- IF SOIL TESTS INDICATE A PHOSPHOROUS DEFICIENCY THAT WILL IMPACT PLANT AND LAWN ESTABLISHMENT, PHOSPHOROUS SHALL BE APPLIED AT THE MINIMUM RECOMMENDED LEVEL PRESCRIBED IN THE SOIL TEST FOLLOWING ALL APPLICABLE STANDARDS, REQUIREMENTS, AND/OR REGULATIONS.
- ALL SLOPES GREATER THAN 3:1 RECEIVING A WILDFLOWER, WETLAND, AND/OR GRASS SEEDING MIXTURE SHALL BE COVERED WITH AN EROSION CONTROL BLANKET.
- ALL WILDFLOWERS AND GRASSES SOWED SHALL BE ALLOWED TO GROW TO THEIR NATURALLY OCCURRING HEIGHTS WHENEVER POSSIBLE. NATIVE WILDFLOWERS AND/OR GRASSES CAN BE MOWED/MAINTAINED (WITHIN ACCEPTABLE AREAS IDENTIFIED AND/OR APPROVED BY APPROPRIATE REGULATORY AGENCIES) AS OFTEN AS NEEDED TO KEEP THE VEGETATION AT A DESIRED AND/OR MANAGEABLE/MANICURED HEIGHT.
- 9. INVASIVE SPECIES SHALL NOT BE PERMITTED.
- 10. ALL PLANT MATERIAL SHALL CONFORM TO THE PLAN SIZE SPECIFICATIONS AS ESTABLISHED BY THE AMERICAN STANDARD FOR NURSERY STOCK LATEST EDITION.

TREE REMOVAL, PRESERVATION, AND REFORESTATION PLANTING CALCULATIONS

THE EXISTING TREES PROPOSED TO BE REMOVED WITHIN THE PROJECT SITE LIMITS OF DISTURBANCE REQUIRE REPLACEMENT EFFORTS TO SATISFY THE FOLLOWING CALCULATIONS:

- TREES SHALL BE REPLANTED AT A MINIMUM RATIO OF 1 TREE PER 1,000 SF OF DISTURBANCE
- FOR EVERY TREE PROPOSED FOR REMOVAL ON A REGULATED STEEP SLOPE (>25%). TWO TREES SHALL **BE PLANTED**
- THE PLANNING BOARD SHALL DETERMINE THE MINIMUM NUMBER OF TREES TO BE REPLANTED. THE TOTAL QUANTITY TO BE REPLANTED SHALL BE SET AT THE MORE STRINGENT OF THE TWO BETWEEN TOTAL NUMBER OF TREES PROPOSED REMOVAL (ADJUSTED FOR STEEP SLOPES) AND THE RATIO OF 1 PER 1,000 SF OF DISTURBANCE.

- 3,396 TOTAL TREES TO BE REMOVED WITHIN THE PROPOSED PROJECT SITE LIMITS OF DISTURBANCE
- TOTAL DISTURBED AREA = 840,994 SF
- 165 TREES TO BE REMOVED ON STEEP SLOPES (>25%)

THEREFORE

THE TOTAL TREE PLANTING REPLACEMENT CALCULATIONS ARE AS FOLLOWS:

- 1 TREE PER 1,000 SF OF DISTURBANCE REQUIREMENT = 840,994 DIVIDED BY 1,000 = 841 TREES
- 2 TREES FOR EVERY TREE PROPOSED REMOVED TREE ON REGULATED STEEP SLOPE (>25%) = 165 x 2 = 330 TREES

CONCLUSION:

THE TOTAL NUMBER/QUANTITY OF TREES REQUIRED TO BE REPLANTED SHALL BE BASED ON THE MOST STRINGENT OF THE TWO REQUIREMENTS SET FORTH ABOVE. THEREFORE, THE TOTAL NUMBER/QUANTITY OF TREES THAT ARE TO SERVE AS APPROPRIATE REPLACEMENT PLANTINGS = 841 TREES

ADDITIONAL GIVENS AND CALCULATIONS AND CONCLUSIONS

- THE LANDSCAPING PLAN PROVIDES PROPOSED TREE PLANTINGS THAT PROVIDE MITIGATION TO POTENTIAL VIEWS INTO THE PROJECT SITE TO THE BEST EXTENT POSSIBLE
- THE LANDSCAPING PLAN PROVIDES ADDITIONAL PROPOSED TREE AND SHRUB PLANTINGS THAT ARE POLLINATOR-FRIENDLY AND A BENEFICIAL ENHANCEMENT TO WILDLIFE HABITAT INCREASING **BIODIVERSITY IN AND AROUND THE PROJECT SITE**
- 274 EVERGREEN TREES (6'-7' MIN. HT.) ARE PROPOSED ON THE LANDSCAPING PLAN CREDIT = 1:1 = 274 TREE TOTAL CREDIT
- 28 ORNAMENTAL TREES (6'-8' CLUMP/1" CAL. MIN.) ARE PROPOSED ON THE LANDSCAPING PLAN CREDIT = 3:1 = 9 TREE TOTAL CREDIT
- 213 SHRUBS (3/5 GALLON CONTAINERS MIN.) ARE PROPOSED ON THE LANDSCAPING PLAN CREDIT = 10:1 = 21 TREE TOTAL CREDIT

THEREFORE

THE TOTAL TREE CREDIT FOR THE PROPOSED TREE AND SHRUB PLANTINGS ON THE LANDSCAPING PLAN = 274 + 9 + 21 = 304 TREES TOTAL CREDIT

841 TREES ARE REQUIRED TO BE REPLANTED TO SATISFY THE MOST STRINGENT TREE REPLACEMENT

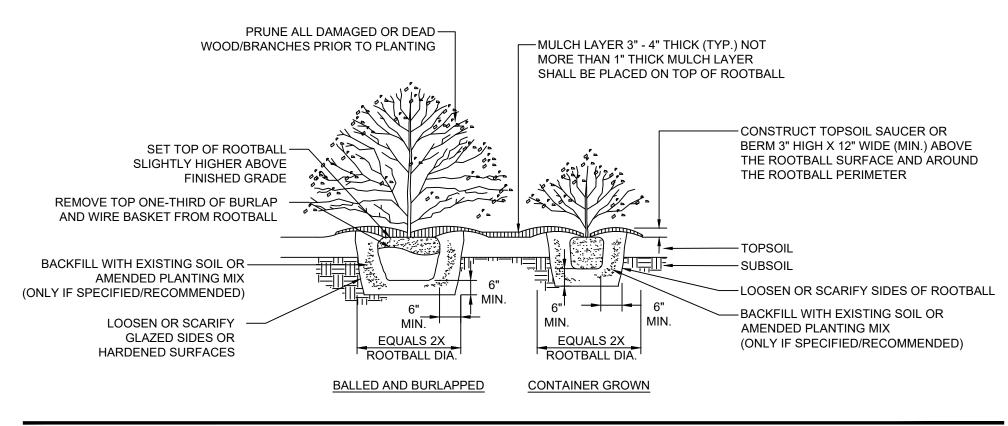
304 TREES CAN BE USED AS CREDIT BASED ON THE PROPOSED PLANTINGS ON THE LANDSCAPING PLAN

841 - 304 = 537 TREE REPLACEMENT PLANTINGS REMAIN

THE REMAINING 537 TREES WILL BE PLANTED ONCE THE PROJECT HAS BEEN DECOMMISSIONED. THE TREES WILL BE PLANTED IN THE AREA WHERE THE SOLAR ARRAY SYSTEM WAS SITED AND WILL BE REMOVED.

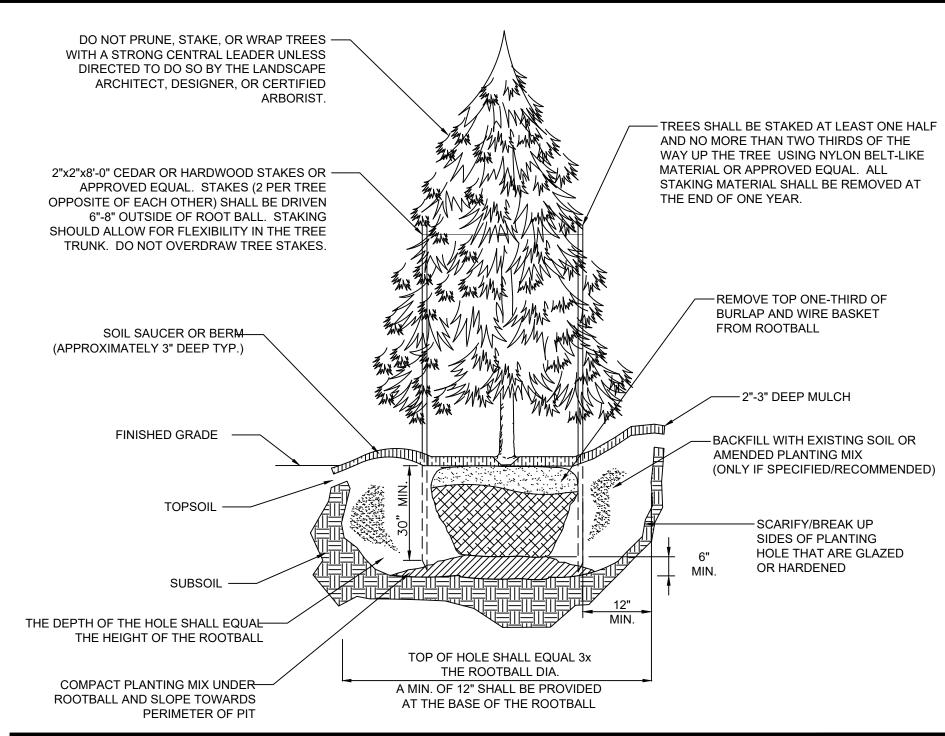
THE TREE SPECIES TO BE PLANTED AFTER DECOMMISSIONING WILL BE LIKE OR SIMILAR TO THE ORIGINAL SPECIES THAT EXISTED ON THE PROJECT SITE PRIOR TO CONSTRUCTION AND THE TREE SURVEY PREPARED BY BARTLETT TREE EXPERTS (DATED NOVEMBER 2, 2020) WILL BE REFERENCED TO ENSURE THAT THE PROPER TREE SPECIES ARE PROCURED AND INSTALLED IN THE SAME LOCATIONS AS THAT OF THE ORIGINAL TREE SPECIES THAT ORIGINALLY EXISTED ON THE SITE PRIOR TO CONSTRUCTION TO THE BEST EXTENT

ANY REMAINING TREES THAT CANNOT BE PLANTED DUE TO SPACING, AVAILABILITY, LAYOUT LIMITATIONS, AND/OR ANY OTHER REASONABLE RESTRICTIONS WILL BE ACCOUNTED FOR VIA MONETARY PAYMENT FEE-IN LIEU OF TO COMPENSATE FOR ANY REMAINING DEFICIENCIES IN TREE QUANTITY TOTALS REQUIRED.



SHRUB PLANTING DETAIL

- IN AREAS WITH MASS PLANTINGS, CONTINUOUS EXCAVATION AND MULCHING PRACTICES SHALL BE IMPLEMENTED WHENEVER POSSIBLE
- IT IS NOT RECOMMENDED TO AMEND THE EXISTING SOIL BEFORE BACKFILLING THE HOLE UNLESS SOIL CONDITIONS ARE POOR FOR PLANTING.
- WATER THOROUGHLY TO HELP ENSURE THE REMOVAL OF AIR POCKETS



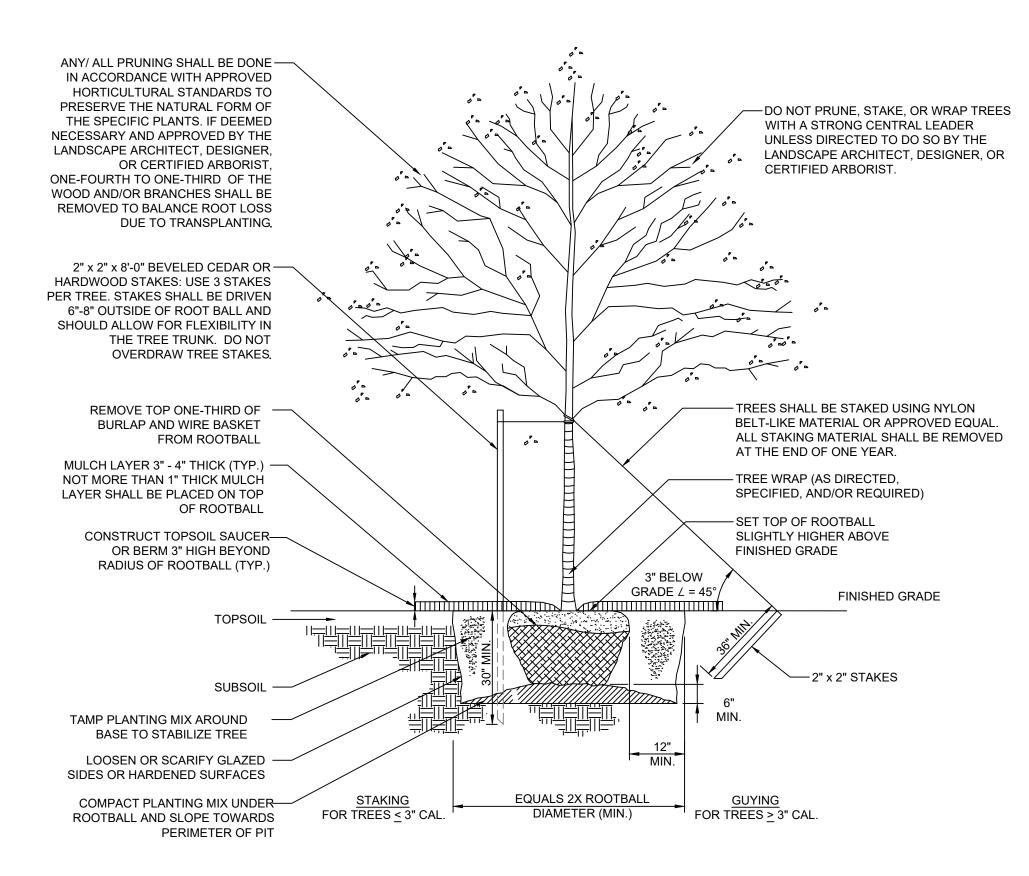
EVERGREEN TREE PLANTING DETAIL

N.T.S.

- TREE PLANTING SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT WAS PRE-DUG IN THE NURSERY.
- NEVER CUT THE PRIMARY LEADER.

CONDITIONS ARE POOR FOR PLANTING.

- IT IS NOT RECOMMENDED TO AMEND THE EXISTING SOIL BEFORE BACKFILLING THE HOLE UNLESS SOIL
- WATER THOROUGHLY TO HELP ENSURE THE REMOVAL OF AIR POCKETS AND PROPERLY SET THE TREE.



NATIVE/DECIDUOUS TREE PLANTING DETAIL

N.T.S.

- TREE PLANTING SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT WAS PRE-DUG IN THE NURSERY
- NEVER CUT THE PRIMARY LEADER.
- IT IS NOT RECOMMENDED TO AMEND THE EXISTING SOIL BEFORE BACKFILLING THE HOLE UNLESS SOIL CONDITIONS
- WATER THOROUGHLY TO HELP ENSURE THE REMOVAL OF AIR POCKETS AND PROPERLY SET THE TREE

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Drawn by:

Design by:

Checked by:

INC. R FARM AR SYS-

ENORTH AMERICA, II LANDT MILL SOLAR F COUND MOUNT SOLAI CVE NO CORTLAI

Contract No: 360551

Scale: AS NOTED

MARCH 2021

TREE PRESERVATION A REFORESTATION PLAN Drawing No:

THE PURPOSE AND INTENT OF THIS POLLINATOR-FRIENDLY WILDLIFE EXHIBIT IS TO PROVIDE AN EXPLANATION OF CONCEPT IN APPROACH FOR SUPPLEMENTING AND ENHANCING THE EXISTING VEGETATION AND LANDSCAPE ELEMENTS WITHIN THE PROJECT SITE. LEGITIMATE CONCERTED EFFORTS TO IMPLEMENT BEST MANAGEMENT PRACTICES THAT ARE POLLINATOR-FRIENDLY AND A BENEFIT WILDLIFE ARE CITED BELOW. THE IMPLEMENTATION OF THESE BEST MANAGEMENT PRACTICES CAN INCREASE VARIETIES IN WILDLIFE AND PLANT SPECIES RESULTING IN AN INCREASE OF BIODIVERSITY WITHIN THE PROJECT SITE AND BEYOND. THE BEST

 PROVIDE A PLANTING SCHEME THROUGHOUT THE PROJECT SITE USING PLANT SPECIES THAT ARE NATIVE AND/OR INDIGENOUS TO THE AREA AND ARE POLLINATOR-FRIENDLY. POLLINATOR-FRIENDLY ORNAMENTAL TREES AND SHRUBS MAY INCLUDE DOWNY SHADBUSH (AMELANCHIER ARBOREA), RED CHOKEBERRY (ARONIA ARBUTIFOLIA), COMMON WITCH HAZEL (HAMAMELIS VIRGINIANA), COMMON WINTERBERRY (ILEX VERTICILLATE), AMERICAN CRANBERRY (VIBURNUM TRILOBUM), AND/OR HIGHBUSH BLUEBERRIES (VACCINIUM CORYMBOSUM).

MANAGEMENT PRACTICES ARE AS FOLLOWS:

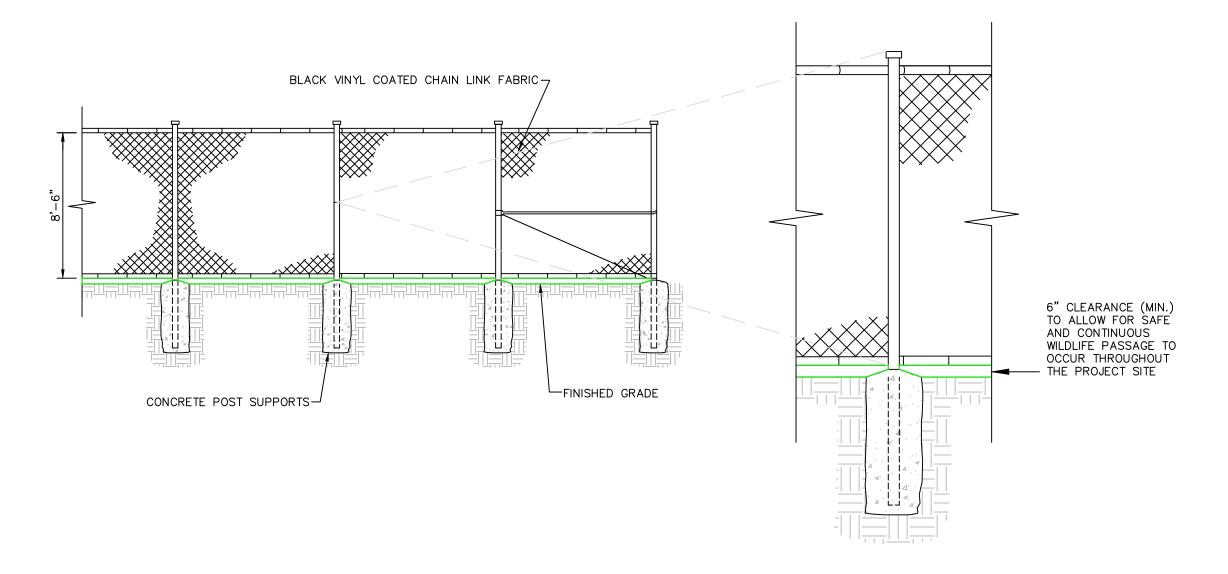
- WITHIN THE PROJECT SITE, A LOW-GROWING PERMANENT SEED MIX WILL MOST LIKELY BE PROPOSED THROUGHOUT MOST OF THE AREA TO MINIMIZE EROSION CONCERNS. IT IS ANTICIPATED THAT THIS SEED MIX WILL BE COMPRISED OF NATIVE/INDIGENOUS WARM AND COOL SEASON GRASSES WITH RED AND WHITE CLOVER POLLINATORS. IT IS IMPORTANT TO NOTE, THAT THIS TYPE OF LONG-TERM PERMANENT GROUND COVER HELPS TO MINIMIZE THE NEED FOR FREQUENT MOWING.
- A NATIVE POLLINATOR-FRIENDLY SEED MIX GROUND COVER IS INTENDED TO BE SOWN WHEREVER POSSIBLE IN AREAS WHERE MOWING IS NOT OF CONCERN. THESE MIXES ARE TYPICALLY COMPRISED OF AN EVEN MIX OF NATIVE WILDFLOWERS AND WARM AND COOL SEASON GRASSES. THE POLLINATOR SEED MIXES THAT MAY BE PROPOSED ARE INTENDED TO SERVE AS PERMANENT EROSION AND SEDIMENT BMPS WITHIN THE PROJECT AREA AS WELL. FURTHERMORE, IT IS RECOMMENDED THAT NATIVE WILDFLOWERS AND GRASSES BE SOWN IN SELECTED LOCATIONS THAT WILL ALLOW THE POLLINATOR-FRIENDLY FLOWER SPECIES TO DEVELOP TO THE BEST EXTENT POSSIBLE. THEY MAY ALSO SERVE AS A FOUNDATION FOR THE LOCAL COMMUNITY TO SUPPORT BEEKEEPING INITIATIVES.
- THE NATIVE POLLINATOR-FRIENDLY PLANT SPECIES THAT ARE LISTED ABOVE ARE WOODY-TYPE (TYPICALLY DECIDUOUS IN NATURE) AND CAN PROVIDE EVEN MORE BENEFITS WHEN PLANTED TOGETHER WITH POLLINATOR GROUNDCOVER SPECIES BY CREATING WILDLIFE HABITAT AREAS, SHELTER, AND FOOD SOURCES THAT DIFFER FROM THE GROUNDCOVERS. IMPLEMENTING THE VARIOUS TYPES OF PLANTS CAN ATTRACT DIFFERENT VARIETIES OF WILDLIFE AND THEREFORE, INCREASE AND ENHANCE BIODIVERSITY.
- WILDLIFE-FRIENDLY CHAIN LINK FENCING IS RECOMMENDED IN SPECIFIC DESIGNATED AREAS WITHIN THE PROJECT SITE TO ALLOW FOR CONTINUED USE OF THE EXISTING WILDLIFE CORRIDORS AND ACCESS TO EXISTING VERNAL POOLS FOUND WITHIN THE PROJECT SITE. THESE VERNAL POOLS PROVIDE ADDITIONAL WILDLIFE BENEFITS AND PROVIDING ACCESS WITHOUT LIMITATION FURTHER ENHANCES AND INCREASES BIODIVERSITY.
- EARLY SUCCESSION WILL OCCUR AS A RESULT OF THE CONSTRUCTION OF THE PROJECT SITE. MANY WILDLIFE SPECIES RELY ON EARLY SUCCESSION HABITATS WHICH REQUIRE OPEN SPACE AND LAND AREAS TO BE MOST EFFECTIVE AND BENEFICIAL. VARIOUS TYPES OF GRASSLAND AND SHRUBLAND BIRDS ALONG WITH OTHER VARIETIES OF WILDLIFE PREFER EARLY SUCCESSION HABITATS FOR THE EXCELLENT COVER AND QUALITY OF FOOD AVAILABLE MAKING THIS TYPE OF HABITAT AN IMPORTANT COMPONENT FOR INCREASING BIODIVERSITY OPPORTUNITIES OF THE PROJECT SITE.
- PROVIDE A VARIETY OF POLLINATOR-FRIENDLY (WOODY-TYPE AND PERENNIAL) PLANTINGS IN THE LAYDOWN AREA AFTER CONSTRUCTION OF THE PROJECT IS COMPLETE TO TAKE ADVANTAGE OF THIS UNIQUE OPEN AREA AND TREAT IT AS ANOTHER OPPORTUNITY TO FURTHER ENHANCE AND INCREASE BIODIVERSITY.
- UTILIZE FELLED TREES TO CONSTRUCT WILDLIFE HABITAT PILES AND STRATEGICALLY LOCATE IN DESIGNATED AREAS - NOTING THE BENEFITS THAT ARE CITED IN THIS EXHIBIT.
- INCORPORATE BIRD AND NEST BOXES THROUGHOUT THE PROJECT SITE -NOTING THE BENEFITS THAT ARE CITED IN THIS EXHIBIT.

REFERENCES AND RESOURCES

- MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION - THE MASSACHUSETTS BUFFER MANUAL
- UMASS CLEAN ENERGY EXTENSION BEST MANAGEMENT PRACTICES FOR POLLINATOR-FRIENDLY SOLAR ARRAYS
- THE PENNSYLVANIA STATE EXTENSION DEAD WOOD FOR WILD
- AUDUBON SOCIETY WHY SOLAR POWER IS GOOD FOR BIRDS
- ERNST SEED COMPANY SOLAR SPECIFIC AND POLLINATOR-FRIENDLY SEED MIXES
- GOOGLE IMAGES VARIOUS ONLINE PHOTO IMAGES
- MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION VERNAL POOLS: A SIGNIFICANT WILDLIFE HABITAT
- NATURAL RESOURCE CONSERVATION SERVICE (VERMONT) EARLY SUCCESSION BENEFITS
- NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS -NYS UTILITY CORRIDOR POLLINATOR HABIT GUIDELINES -POLLINATOR HABITAT SEED MIX: WET AND DRY MESIC SITES

WILDLIFE-FRIENDLY CHAIN LINK FENCE DETAIL

NOT TO SCALE



FELLED TREES AND WILDLIFE HABITAT PILES







USING FELLED TREES TO CREATE WILDLIFE HABITAT PILES WITHIN THE PROJECT SITE IS A GREAT WAY TO ATTRACT A VARIETY OF WILDLIFE SPECIES. WILDLIFE HABITAT PILES CAN BE IMPLEMENTED IN STRATEGIC LOCATIONS ALONG THE DESIGNATED WILDLIFE CORRIDOR AREAS TO MAXIMIZE THEIR EFFECTIVENESS WITHIN THE PROJECT SITE AND BEYOND.

BENEFITS FROM WILDLIFE HABITATS PILES CONSTRUCTED OUT OF FELLED/DEAD TREES INCLUDE PROVIDING SHELTER AND FOOD TO MANY WILDLIFE SPECIES MAKING THEM A VALUABLE RESOURCE AND EFFECT NATURAL TOOL THAT CAN EASILY BE IMPLEMENTED TO CREATE INCREASED BIODIVERSITY WITHING THE PROJECT SITE AREA.



BIRD BOXES AND NEST BOXES



BIRD BOXES AND NEST BOXES CAN BE ERECTED IN MANY LOCATIONS THROUGHOUT THE PROJECT SITE, ATTRACTING A VARIETY OF BIRD SPECIES THAT MAY INCLUDE BLUE BIRDS, KESTRELS, OWLS, AND SPARROWS TO NAME A FEW. IT IS RECOMMENDED THAT THE BOXES BE FENCE OR POLE-MOUNTED WHENEVER POSSIBLE AND ADDITIONAL PROTECTIVE MEASURES SUCH AS SHIELDING BE IMPLEMENTED TO PREVENT UNWANTED PREDATORS FROM INVADING THE NESTS.







SOLAR FARM GRASS SEED MIXES

BOTANICAL NAME	COMMON NAME	MIX CONCENTRATION	RATE (LBS/ACRE)	RATE (LBS/1000 FT	
FESTUCA RUBRA	CREEPING RED FESCUE	34%			
FESTUCA OVINA	SHEEP FESCUE	33%			
FESTUCA BREVIPILA 'BEACON'	HARD FESCUE 'BEACON'	10%			
FESTUCA OVINA VAR. DURIUSCULA 'RHINO'	HARD FESCUE 'RHINO'	5%	262	6	
FESTUCA OVINA VAR. GLAUCA (F. ARVERNENSIS) (F. GLAUCA), 'BLUE RAY'	BLUE FESCUE 'BLUE RAY'	5%			
POA PRATENSIS 'ARGYLE'	KENTUCKY BLUEGRASS 'ARGYLE'	5%			
POA PRATENSIS 'SHAMROCK'	KENTUCKY BLUEGRASS 'SHAMROCK'	5%			
AGROSTIS PERENNANS, ALBANY PINE BUSH-NY ECOTYPE	AUTUMN BENTGRASS, ALBANY PINE BUSH-NY ECOTYPE	3%			

GRASS SEED MIXES ARE COMPRISED OF GRASSES THAT ARE NATIVE AND/OR INDIGENOUS TO THE AREA AND/OR CONSIDERED FAVORABLE FOR WILDLIFE HABITAT AND SUSTAINABLE GROWTH. ADDITIONALLY, THE SOLAR FARM SEED MIX WAS DEVELOPED ESPECIALLY FOR THE USE OF WARM AND COOL SEASON NATIVE GRASS PLANTINGS AROUND SOLAR ARRAY FIELDS AND SHALL BE UTILIZED ACCORDINGLY. THE WARM AND COOL SEASON GRASSES WILL MINIMIZE EROSION CONCERNS BY PROVIDING A CONSISTENT GROUNDCOVER THROUGHOUT THE YEAR AND MATURE OUT TO A HEIGHT OF APPROXIMATELY 2 1/2 FEET HIGH MINIMIZING MOWING AND SHADING CONCERNS AS WELL.

THE SEED MIX ABOVE IS A SPECIFICALLY DEVELOPED MIX HOWEVER, POLLINATOR-FRIENDLY SPECIES SUCH AS RED AND WHITE CLOVER (TRIFOLIUM PRATENSE AND TRIFOLIUM REPENS - RESPECTIVELY) WILL ALSO BE ADDED TO THIS MIX TO ENSURE THAT POLLINATOR SPECIES ARE AVAILABLE THROUGHOUT THE SOLAR ARRAY FIELDS WITHOUT INCREASING CONCERNS FOR EROSION, MOWING, AND/OR SHADING OF THE ARRAYS.

FLOWERING HERBACEOUS LAYER/NORTHEAST NATIVE POLLINATOR SEED MIXES

BOTANICAL NAME	COMMON NAME	MIX CONCENTRATION	RATE (LBS/ACRE)	(LBS)
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	40%		
BOUTELOUA CURTIPENDULA	SIDEOATS GRAMA	23.40%		
COSMOS BIPINNATUS	COSMOS	7.30%		
COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS	3.50%		
ECHINACEA PURPUREA	PURPLE CONEFLOWER	3.50%	3.50%	
ELYMUS VIRGINICUS	VIRGINIA WILDRYE	3%		
SORGHASTRUM NUTANS	INDIANGRASS	2.50%		
LUPINUS POLYPHYLLUS	BIGLEAF LUPINE	2.20%		
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	2%		
DELPHINIUM AJACIS	ROCKET LARKSPUR	2%		
RUDBECKIA HIRTA	BLACKEYED SUSAN	2%		
GAILLARDIA ARISTATA	BLANKET FLOWER	1.50%		
SENNA HEBECARPA	WILD SENNA	1%		
PENSTEMON DIGITALIS	TALL WHITE BEARDTONGUE	1%		
PAPAVER RHOEAS	SHIRLEY MIX (CORN POPPY, SHIRLEY MIX)	0.60%		
ANDROPOGON GERARDII	BIG BLUESTEM	0.50%	20	
ELYMUS CANADENSIS	CANADA WILDRYE	0.50%		
COREOPSIS TINCTORIA	PLAINS COREOPSIS	0.50%		
LIATRIS SPICATA	BLAZING STAR	0.40%		
ASCLEPIAS SYRIACA	COMMON MILKWEED	0.40%		
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	0.40%		
ZIZIA AUREA	GOLDEN ALEXANDERS	0.30%		
ASCLEPIAS INCARNATA	SWAMP MILKWEED	0.30%		
MONARDA FISTULOSA	WILD BERGAMONT	0.20%		
PENSTEMON LAEVIGATUS	APPALACHIAN BEARDTONGUE	0.20%		
SENNA MARILANDICA	MARYLAND SENNA	0.20%		
SOLIDAGO NEMORALIS	GRAY GOLDENROD	0.10%		
TRADESCANTIA OHIENSIS	OHIO SPIDERWORT	0.10%		
ASTER LAEVIS	SMOOTH BLUE ASTER	0.10%		
ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	0.10%		
ASTER PRENANTHOIDES	ZIGZAG ASTER	0.10%		
HELIOPSIS HELIANTHOIDES	OXEYE SUNFLOWER	0.10%		

NATIVE POLLINATOR SEED MIXES ARE INTENDED TO PROVIDE AN EXCELLENT WILDLIFE FOOD AND SHELTER THAT WILL ATTRACT A VARIETY OF POLLINATORS AND SONGBIRDS. THE NATIVE WILDFLOWERS AND GRASSES IN THIS MIX PROVIDE AN ATTRACTIVE DISPLAY OF COLOR FROM SPRING TO FALL. POLLINATOR SEED MIXES ARE INTENDED TO PROVIDE NECTAR AND FOOD SOURCES FOR A VARIETY OF POLLINATORS AND LARVA. THESE MIXES ARE COMPRISED OF A FAIRLY EVEN MIX OF NATIVE AND/OR INDIGENOUS WILDFLOWERS AND GRASSES.

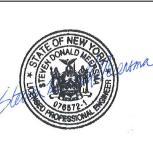
THE POLLINATOR SEED MIX IS INTENDED TO BE SOWN EVERYWHERE ELSE POSSIBLE WITHIN THE PROJECT SITE - IN AREAS WHERE MOWING IS NOT NECESSARY AND THE POLLINATOR-FRIENDLY PLANT SPECIES ARE ABLE TO GROW TO THEIR NATURALLY OCCURRING HEIGHTS AND DEVELOP FLOWER. AREAS WITHIN THE PROJECT SITE THAT MAY BE CONSIDERED TO SOW THIS SEED MIX ARE IN DESIGNATED PLANTING STRIPS OUTSIDE OF THE SOLAR ARRAY FIELD, OTHER AREAS AROUND THE OUTER PERIMETER OF THE VEGETATIVE PLANTING BUFFER, AND IN AREAS WHERE THE FENCING MAY HAVE ODD ANGLES CREATING PLANTING "POCKETS" FOR THE POLLINATOR-FRIENDLY PLANTINGS.

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New York, Phone: 212







Drawn by: Design by: Checked by:

> FARM AR SYS NORTH AME LANDT MILL S OUND MOUN

Contract No: 360551

Scale: AS NOTED

MARCH 2021

ENHANCEMENT FEATURES Drawing No:

L-102

ACCESS ASSOCIATED WITH RENEWABLE ENERGY PROJECTS IN NEW YORK STATE.

3. REMOVE STUMPS, ROCKS AND DEBRIS AS NECESSARY. FILL VOIDS TO MATCH EXISTING NATIVE

SOILS AND COMPACTION LEVEL.

4. REMOVED TOPSOIL MAY BE SPREAD IN ADJACENT AREAS AS DIRECTED BY THE PROJECT

4. REMOVED TOPSOIL MAY BE SPREAD IN ADJACENT AREAS AS DIRECTED BY THE PROJECT ENGINEER. COMPACT TO THE DEGREE OF THE NATIVE INSITU SOIL. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE

5. GRADE ROADWAY, WHERE NECESSARY, TO NATIVE SOIL AND DESIRED ELEVATION. MINOR GRADING FOR CROSS SLOPE CUT AND FILL MAY BE REQUIRED.

6. REMOVE REFUSE SOILS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN AREA THAT IMPEDES STORMWATER DRAINAGE.

. ROADWAY WIDTH ABOVE MINIMUM TO BE DETERMINED BY CLIENT.

8. THE LIMITED USE PERVIOUS ACCESS ROAD CROSS SLOPE SHALL BE 2% IN MOST CASES AND SHOULD NOT EXCEED 6%. THE LONGITUDINAL SLOPE OF THE ACCESS DRIVE SHOULD NOT

9. THE LIMITED USE PERVIOUS ACCESS ROAD IS NOT INTENDED TO BE UTILIZED FOR CONSTRUCTION WHICH MAY SUBJECT THE ACCESS TO SEDIMENT TRACKING. THIS SPECIFICATION IS TO BE DEVELOPED FOR POST—CONSTRUCTION USE. SOIL RESTORATION PRACTICES MAY BE APPLICABLE TO RESTORE CONSTRUCTION RELATED COMPACTION TO PRE—EXISTING CONDITIONS AND SHOULD BE VERIFIED BY SOIL PENETROMETER READINGS. THE PENETROMETER READINGS SHALL BE COMPARED TO THE RESPECTIVE RECORDED READINGS TAKEN PRIOR TO CONSTRUCTION, EVERY 100 LINEAR FEET ALONG THE PROPOSED ROADWAY.

10. TO ENSURE THAT SOIL IS NOT TRACKED ONTO THE LIMITED USE PERVIOUS ACCESS ROAD, IT SHALL NOT BE USED BY CONSTRUCTION VEHICLES TRANSPORTING SOIL, FILL MATERIAL, ETC. IF THE LIMITED USE PERVIOUS ACCESS IS COMPLETED DURING THE INITIAL PHASES OF CONSTRUCTION, A STANDARD NEW YORK STATE STABILIZED CONSTRUCTION ACCESS SHALL BE CONSTRUCTED AND UTILIZED TO REMOVE SEDIMENT FROM CONSTRUCTION VEHICLES AND EQUIPMENT PRIOR TO ENTERING THE LIMITED USE PERVIOUS ACCESS ROAD FROM ANY LOCATION ON, OR OFF SITE. MAINTENANCE OF THE PERVIOUS ACCESS ROAD WILL BE REQUIRED IF SEDIMENT IS OBSERVED WITHIN THE CLEAN STONE.

11. THE LIMITED USE PERVIOUS ACCESS ROAD SHALL NOT BE CONSTRUCTED OR USED UNTIL ALL AREAS SUBJECT TO RUNOFF ONTO THE PERVIOUS ACCESS HAVE ACHIEVED FINAL STABILIZATION.

12. PROJECTS SHOULD AVOID INSTALLATION OF THE LIMITED USE PERVIOUS ACCESS ROAD IN POORLY DRAINED AREAS, HOWEVER IF NO ALTERNATIVE LOCATION IS AVAILABLE, THE PROJECT SHALL UTILIZE WOVEN GEOTEXTILE MATERIAL AS DETAILED IN FOLLOWING NOTES.

13. THE DRAINAGE DITCH IS OFFERED IN THE DETAIL FOR CIRCUMSTANCES WHEN CONCENTRATED FLOW COULD NOT BE AVOIDED. THE INTENTION OF THIS DESIGN IS TO MINIMIZE ALTERATIONS TO HYDROLOGY, HOWEVER WHEN DEALING WITH 5%-15% GRADES NOT PARALLEL TO THE CONTOUR, A ROADSIDE DITCH MAY BE REQUIRED. THE NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS FOR GRASSED WATERWAYS AND VEGETATED WATERWAYS ARE APPLICABLE FOR SIZING AND STABILIZATION. DIMENSIONS FOR THE GRASSED WATERWAY SPECIFICATION WOULD BE DESIGNED FOR PROJECT SPECIFIC HYDROLOGIC RUNOFF CALCULATIONS, AND A SEPARATE DETAIL FOR THE SPECIFIC GRASSED WATERWAY WOULD BE INCLUDED IN THIS PRACTICE. RUNOFF DISCHARGES WILL BE SUBJECT TO THE OUTLET REQUIREMENTS OF THE REFERENCED STANDARD. INCREASED POST-DEVELOPMENT RUNOFF FROM THE ASSOCIATED ROADSIDE DITCH MAY REQUIRE ADDITIONAL PRACTICES TO ATTENUATE RUNOFF TO PRE-DEVELOPMENT CONDITIONS.

14. IF A ROADSIDE DITCH IS NOT UTILIZED TO CAPTURE RUNOFF FROM THE ACCESS ROAD, THE PERVIOUS ACCESS ROAD WILL HAVE A WELL-ESTABLISHED PERENNIAL VEGETATIVE COVER, WHICH SHALL CONSIST OF UNIFORM VEGETATION (I.E. BUFFER), 20 FEET WIDE AND PARALLEL TO THE DOWN GRADIENT SIDE OF THE ACCESS ROAD. POST-CONSTRUCTION OPERATION AND MAINTENANCE PRACTICES WILL MAINTAIN THIS VEGETATIVE COVER TO ENSURE FINAL STABILIZATION FOR THE LIFE OF THE ACCESS ROAD.

15. THE DESIGN PROFESSIONAL MUST ACCOUNT FOR THE LIMITED USE PERVIOUS ACCESS ROAD IN THEIR SITE ASSESSMENT/HYDROLOGY ANALYSIS. IF THE HYDROLOGY ANALYSIS SHOWS THAT THE HYDROLOGY HAS BEEN ALTERED FROM PRE— TO POST—DEVELOPMENT CONDITIONS (SEE APPENDIX A OF GP—0—20—001 FOR THE DEFINITION OF "ALTER THE HYDROLOGY..."), THE DESIGN MUST INCLUDE THE NECESSARY DETENTION/RETENTION PRACTICES TO ATTENUATE THE RATES (10 AND 100 YEAR EVENTS) TO PRE—DEVELOPMENT CONDITIONS.

GEOGRID MATERIAL NOTE

1. THE GEOGRID, OR COMPARABLE PRODUCT, IS INTENDED FOR USE FOR ALL CONDITIONS, IN ORDER TO ASSIST IN MATERIAL SEPARATION FROM NATIVE SOILS AND PRESERVE ACCESS

2. GRAVEL FILL MATERIAL SHALL CONSIST OF 1-4" CLEAN, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYSDOT ITEM 703-02, SIZE DESIGNATION 3-5 OF TABLE 703-4. STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. GRAVEL SHALL NOT BE COMPACTED.

3. GEOGRID SHALL BE MIRAFI BXG110 OR APPROVED EQUAL. GEOGRID SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED HAUL ROAD SLOPES.

4. IF MORE THAN ONE ROLL WIDTH IS REQUIRED, ROLLS SHOULD OVERLAP A MINIMUM OF NINE

5. REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER TYING AND CONNECTIONS.

6. LIMITED USE PERVIOUS ACCESS ROAD SHALL BE TOP DRESSED AS REQUIRED WITH ONLY 1-4" CRUSHED STONE MEETING NYSDOT ITEM 703-02 SPECIFICATIONS.

BASIS OF DESIGN: TENCATE MIRAFI BXG110 GEOGRIDS; 365 SOUTH HOLLAND DRIVE, PENDERGRASS, GA; 800-685-9990 OR 706-693-2226; WWW.MIRAFI.COM

GEOWEB MATERIAL NOTES:

 THE GEOWEB, OR COMPARABLE PRODUCT, IS SUGGESTED FOR USE ON ROAD PROFILES EXCEEDING 10%. THE GEOWEB PRODUCT IS INTENDED TO LIMIT SHIFTING STONE MATERIAL DURING USE.

2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

3. WHERE REQUIRED, A NATIVE SOIL WEDGE SHALL BE PLACED TO ACCOMMODATE ROAD CROSS SLOPE OF 2%. NATIVE SOIL SHALL BE COMPACTED TO MATCH EXISTING SOIL CONDITIONS.

4. GRAVEL FILL MATERIAL SHALL CONSIST OF 1-4" CLEAN, DURABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYSDOT ITEM 703-02, SIZE DESIGNATION 3-5 OF TABLE 703-4. STONE MAY BE PLACED IN FRONT OF, AND SPREAD WITH, A TRACKED VEHICLE. GRAVEL SHALL NOT BE COMPACTED.

5. GEOWEB SYSTEM SHALL BE PRESTO GEOSYSTEM GEOWEB OR APPROVED EQUAL. GEOWEB SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED HAUL ROAD SLOPES.

6. LIMITED USE PERVIOUS ACCESS ROAD SHALL BE TOP DRESSED AS REQUIRED WITH ONLY 1-4" CRUSHED STONE, SIZE 3A, MEETING NYSDOT ITEM 703-02 SPECIFICATIONS.

7. THE TOP EDGES OF ADJACENT CELL WALLS SHALL BE FLUSH WHEN CONNECTING. ALIGN THE I—SLOTS FOR INTERLEAF AND END TO END CONNECTIONS. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAD AND END TO END CONNECTIONS. REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER INSTALLATION, TYING, ANCHORING, AND

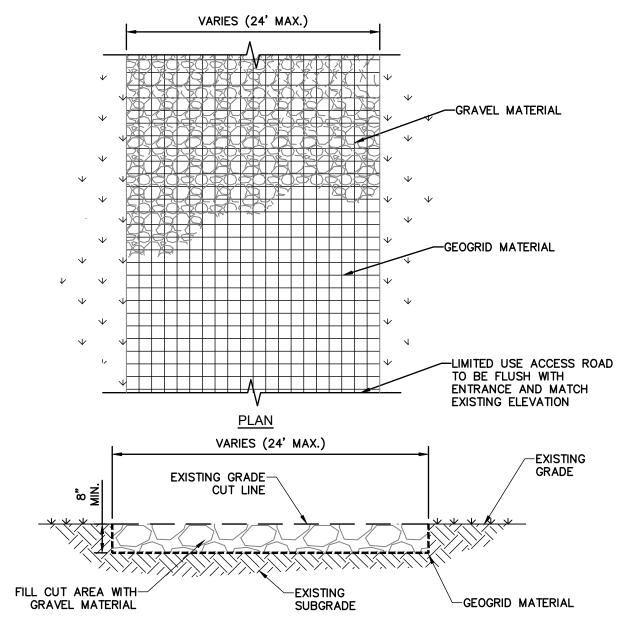
BASIS OF DESIGN: PRESTO GEOSYSTEMS GEOWEB; 670 NORTH PERKINS STREET, APPLETON, WI; 800-548-3424 OR 920-738-1222; INFO@PRESTOGEO.COM;

WOVEN GEOTEXTILE MATERIAL NOTES:

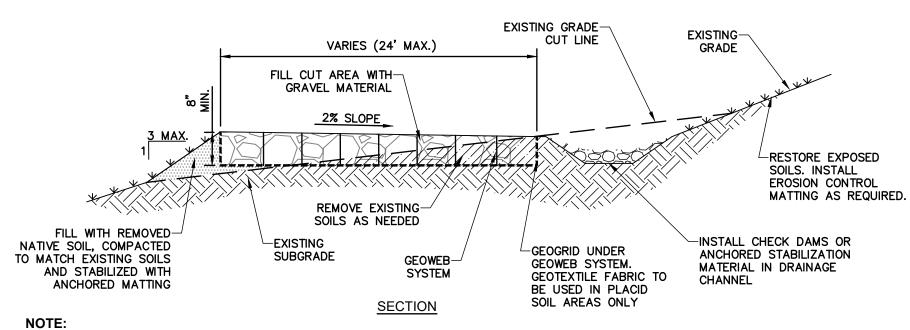
1. SPECIFIED GEOTEXTILE WILL ONLY BE UTILIZED IN PLACID SOILS. PLACID SOILS CONSIST OF POORLY DRAINED SOILS COMPOSED OF FINELY TEXTURED PARTICLES AND ARE PRONE TO RUTTING. PLACID SOILS ARE TYPICALLY PRESENT IN LOW-LYING AREAS WITH HYDROLOGIC SOILS GROUP (HSG) OF C OR D, OR AS SPECIFIED BY AN ENGINEER, ENVIRONMENTAL SCIENTIST, SOIL SCIENTIST, OR GEOTECHNICAL DATA.

2. THE CONCERN FOR POTENTIAL REDUCTION OF NATIVE INFILTRATION RATES DUE TO THE GEOTEXTILE MATERIAL WOULD NOT BE A SIGNIFICANT CONCERN IN POORLY DRAINED SOILS WHERE SEGREGATION OF PERVIOUS STONE AND NATIVE MATERIALS IS CRUCIAL FOR LONG TERM

BASIS OF DESIGN: TENCATE MIRAFI RSi-SERIES WOVEN GEOSYNTHETICS; 365 SOUTH HOLLAND DRIVE, PENDERGRASS, GA;800-685-9990 OR 706-693-2226; WWW.MIRAFI.COM

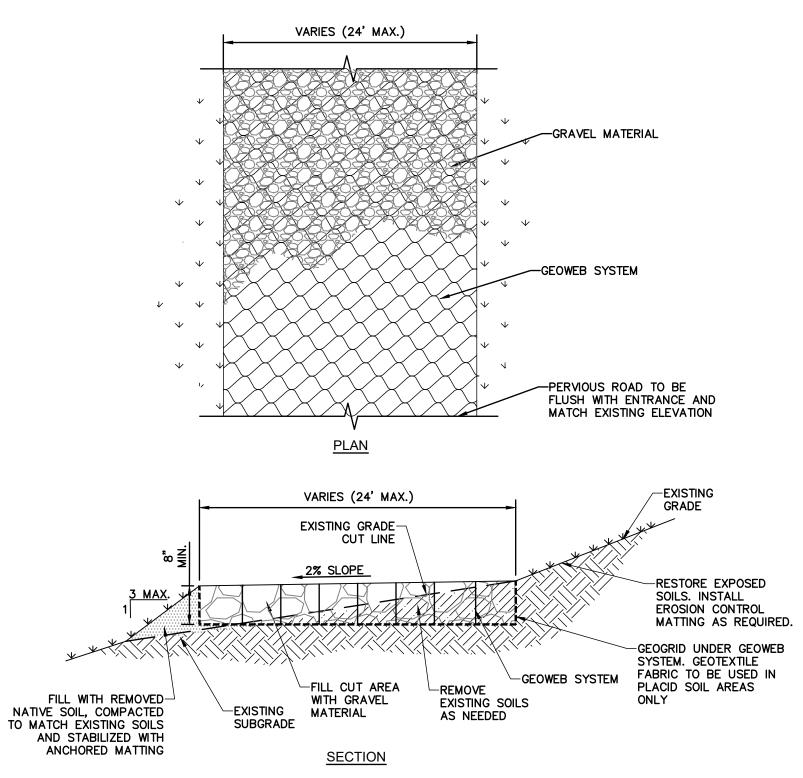


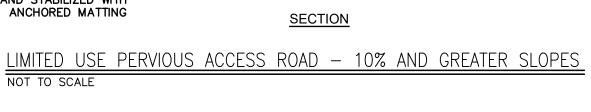
LIMITED USE PERVIOUS ACCESS ROAD - 0% TO 10% SLOPES

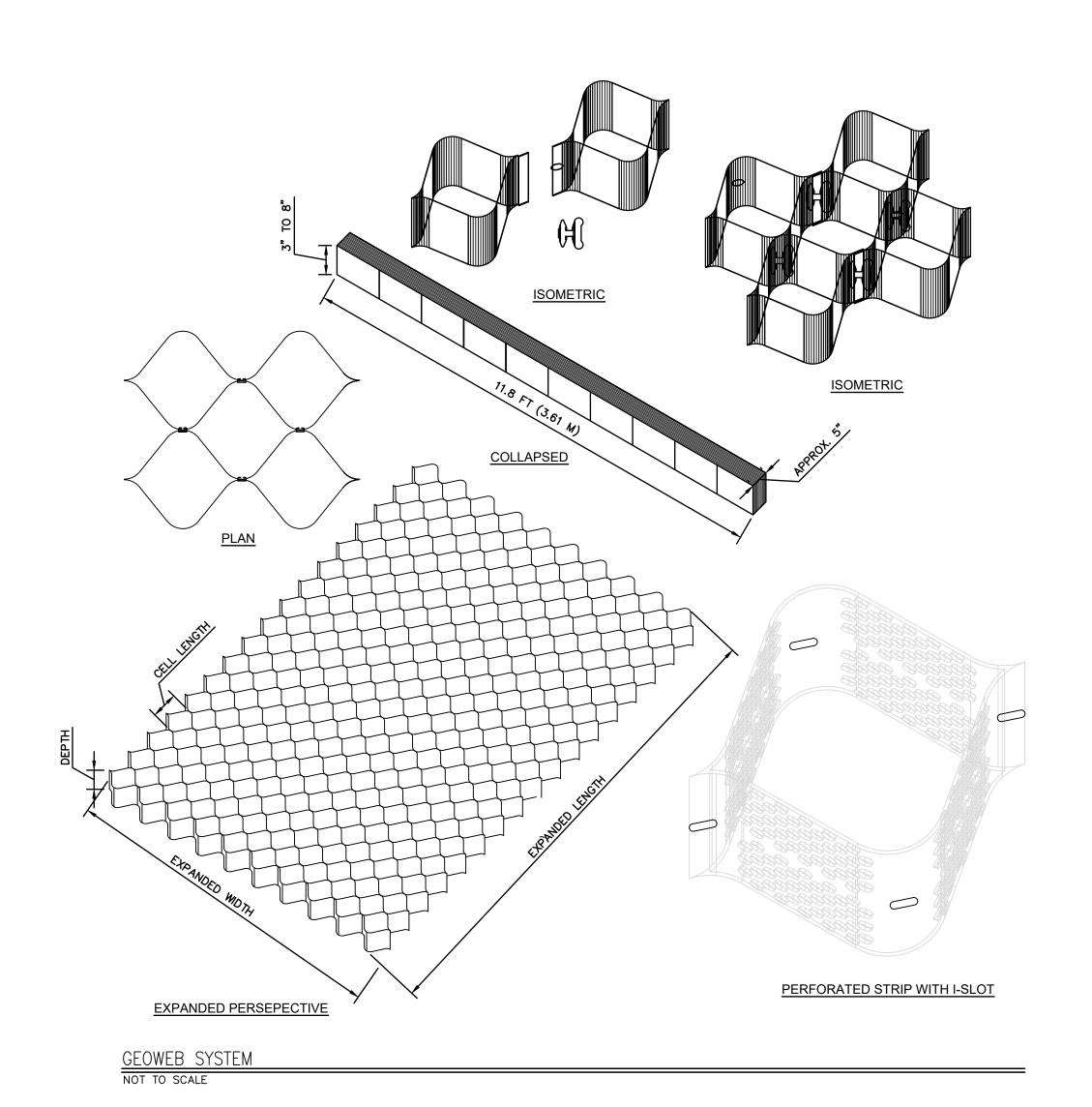


1. THE ROADSIDE DITCH SHALL BE DESIGNED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROLS FOR GRASSED AND VEGETATED WATERWAYS. ADDITIONAL DETAILS WILL BE PROVIDED SPECIFIC TO THE SITE DESIGN

<u>LIMITED USE PERVIOUS ACCESS ROAD - 10% AND GREATER SLOPES WITH DITCH</u>
NOT TO SCALE







NOTE: UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

NOT FOR CONSTRUCTION

v York, NY 10018

TAT V





Revisions:

No. Date:

Drawn by:
T. MILL

Design by:

C. CONNELLY

Checked by:

S. MEERSMA

TEM

E NORTH AMERICA, INC.
FLANDT MILL SOLAR FARM
ROUND MOUNT SOLAR SYSTE
0 MILL COURT
RTLANDT, NEW YORK 10520

Contract No: **360551**

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Scale: AS NOTED

Date: MARCH 2021

Sheet:
DETAIL SHEET 1

Drawing No:

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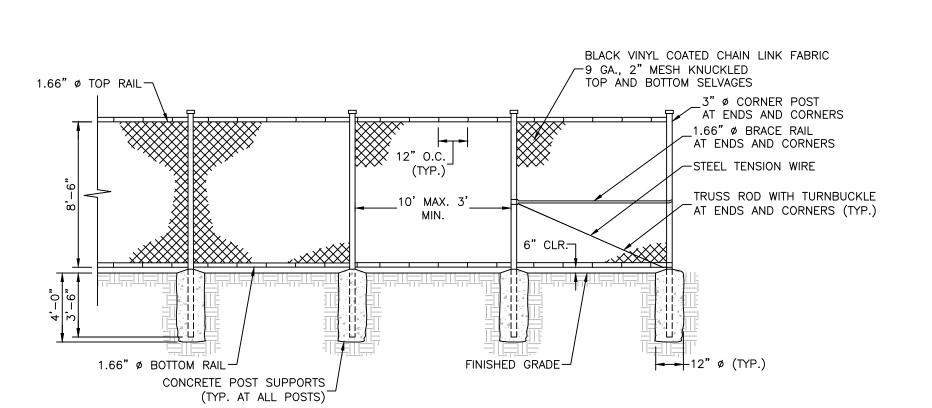
Scale: **AS NOTED**

360551

MARCH 2021

DETAIL SHEET 2 Drawing No:

NOT FOR CONSTRUCTION



FENCE INSTALLATION NOTES

- THE OPENINGS IN THE LINKS SHALL BE A MAXIMUM OF 2"
- CHAIN LINK FENCE IS TO BE FINISHED WITH BLACK VINYL COATING
- TERMINAL POSTS TO BE 2½"Ø SCHEDULE 40 PIPING.

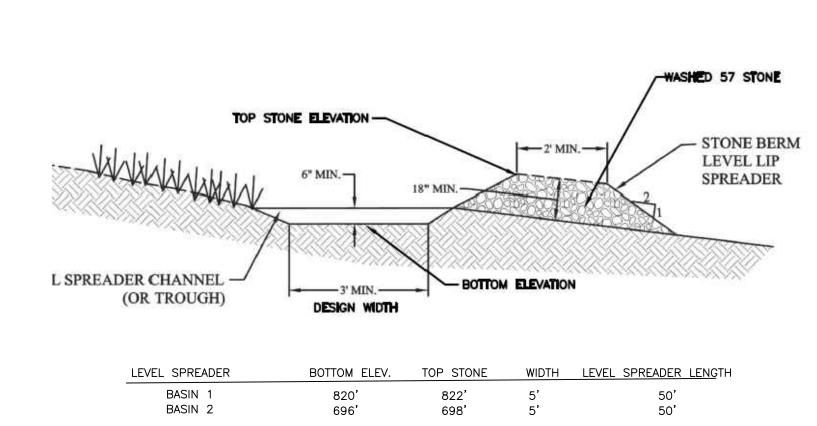
CHAIN LINK FENCE & GATE DETAIL NOT TO SCALE

MILL COURT CORTLANDT, NY

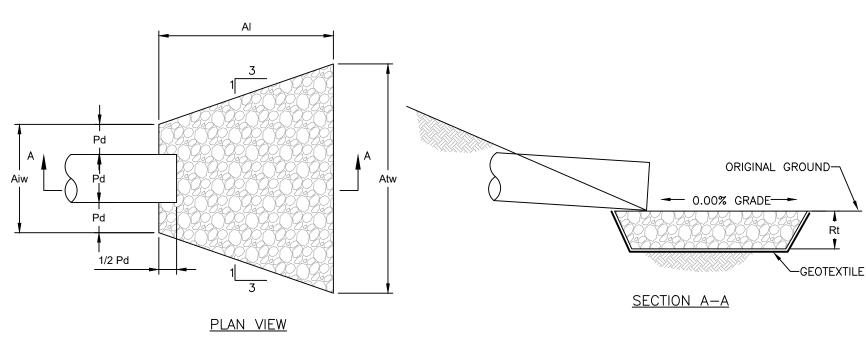
SITE OWNER: CVE NORTH AMERICA, INC. SITE OWNER NUMBER: 914.847.0043

O & M COMPANY: CVE NORTH AMERICA, INC. O & M COMPANY NUMBER: 914.847.0043





LEVEL SPREADER TOE OF SLOPE NOT TO SCALE



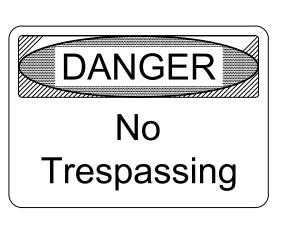
ALL APRONS SHALL BE CONSTRUCTED TO THE DIMENSIONS SHOWN. TERMINAL WIDTHS SHALL BE ADJUSTED AS NECESSARY TO MATCH RECEIVING CHANNELS.

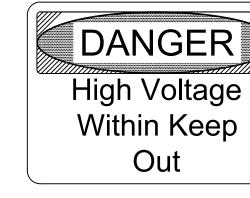
ALL APRONS SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EACH RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.

EXTEND RIPRAP ON BACK SIDE OF APRON TO AT LEAST 1/2 DEPTH OF PIPE ON BOTH SIDES TO PREVENT SCOUR AROUND THE PIPE.

> RIP RAP OUTLET PROTECTION NOT TO SCALE

PIPE	DIDE RIPRAP		APRON		
DIA Pd (IN)	SIZE D ₅₀ - (IN)	THICK. Rt (IN)	LENGTH AI (FT)	INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)
12	9	18	12	4	10





<u>NOTES</u>

6" PONDING

2.5 - 4' PLANTING SOIL

6" PERFORATED PIPE IN 8" GRAVEL

BIORETENTION - SOIL SPECIFICATIONS

SOIL FOR TOTAL PHOSPHORUS.

REQUIREMENTS.

JACKET

- 1. SIGNS SHALL CONFORM TO THE 2013 OSHA AND ANSI REQUIREMENTS.
- SIGNS SHALL BE 20" WIDE BY 14" HIGH. SIGNS SHALL HAVE A MOUNTING HEIGHT OF BETWEEN 45 TO 66 INCHES.
- SIGN PANELS SHALL BE 10 GAUGE ALUMINUM WITH HIGH VISIBILITY REFLECTIVE SHEETING. 5. MOUNT A SET OF SIGNS NOT MORE THAN EVERY 100 FEET ALONG PERIMETER FENCING.

FENCE WARNING SIGNS NOT TO SCALE

BIORETENTION PROFILE

1. SOIL MEDIA COMPOSITION SHALL BE A UNIFORM MIXTURE OF 50% TO 70% SAND

2. THE SOIL MEDIA SHALL CONTAIN LESS THAN 5% CLAY, HAVE A pH RANGE OF 5.2 TO 7.6, AND A LOW PHOSPHORUS INDEX (BETWEEN 0 AND 25). A PERMEABILITY OF AT

USED AS A SOIL AMENDMENT TO INCREASE ORGANIC CONTENT AS REQUIRED.

(ASTM C-33) AND 50% TO 30% ORGANIC MATERIAL (TOPSOIL) BY VOLUME. THE MEDIA BLEND SHALL CONTAIN SHALL AVERAGE OF 5% ORGANIC MATTER SUCH AS COMPOST OR

PEAT, AND BE FREE OF STONES, STUMPS, ROOTS, WOODY MATERIAL OVER 2" IN

LEAST 1.0 FEET PER DAY (0.5"/HR) IS REQUIRED. ONLY COMPOST OR PEAT SHALL BE

3. THE SOIL MEDIA SHALL BE TESTED FOR TOTAL PHOSPHORUS CONTENT AT A QUALIFIED

4. ACCEPTANCE OF THE SOIL MEDIA SHALL BE BASED UPON THE CONTRACTOR OR

LABORATORY, ONE THAT IS CERTIFIED BY THE NEW YORK STATE DEPARTMENT OF HEALTH (NYSDOH) ENVIRONMENTAL LABORATORY APPROVAL PROGRAM (ELAP) TO TEST

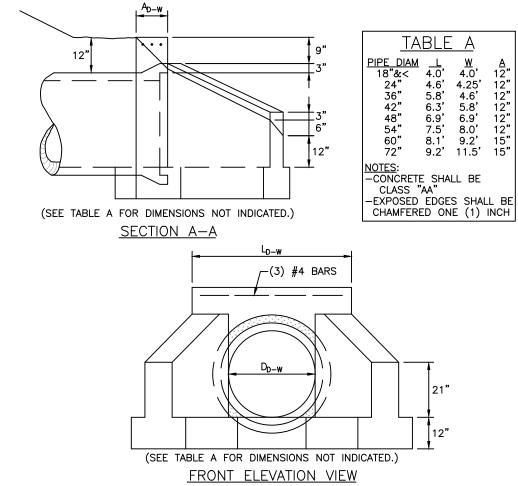
SUPPLIER PROVIDING TO THE ENGINEER COPIES OF TESTING RESULTS CERTIFYING THAT

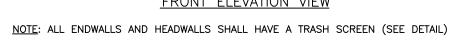
THE SAND GRADATION, TOPSOIL GRADATION, ORGANIC MATTER CONTENT, pH,

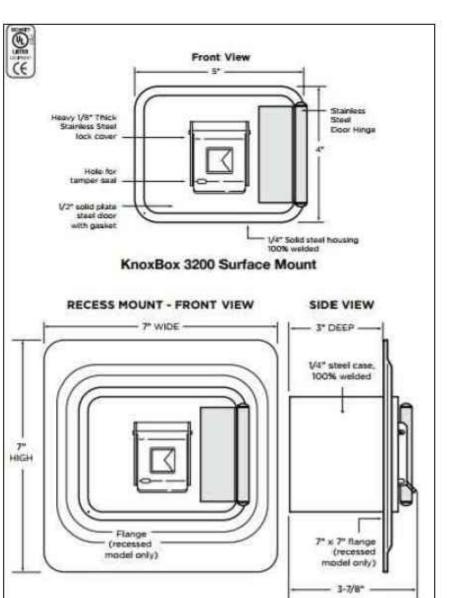
PERMEABILITY, AND TOTAL PHOSPHORUS CONTENT ALL CONFORM TO THE STATED

NOT TO SCALE

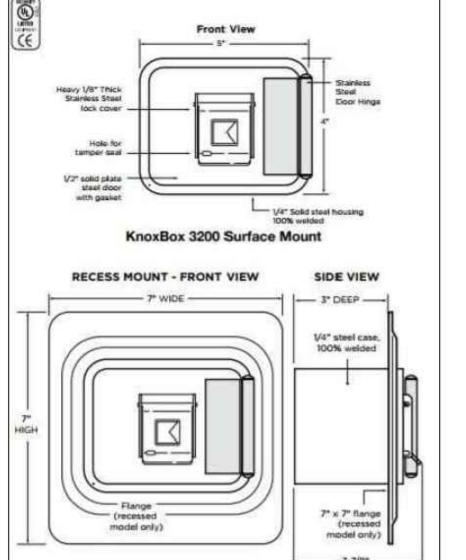
DIAMETER, ANIMAL WASTE, BRUSH, OR SEEDS FROM NOXIOUS WEEDS.







KNOX BOX NOT TO SCALE



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(2080mm × 1030mm × 35mm) 55.1lbs (25.0kg) 0.13 in (3.2mm) thermally pre-stressed glass with anti-reflection technology Composite film Anodized aluminum 6 × 24 monocrystalline Q.ANTUM solar half cells 2.09-3.98 in \times 1.26-2.36 in \times 0.59-0.71 in (53-101 mm \times 32-60 mm \times 15-18 mm), [P67, with bypass diodes 4 mm² Solar cable; (+) ≥55.1 in (1400 mm), (-) ≥55.1 in (1400 mm) Stāubli MC4-Evo2, Hanwha Q CELLS HQC4, Amphenol UTX, Renhe 05-8, JMTHY JM601A; Tongling Cable01S-F, IP68 or ELECTRICAL CHARACTERISTICS POWER CLASS 49.09 41.39 Voltage at MPP 41.08 Efficiency¹ MINIMUM PERFORMANCE AT NORMAL Power at MPP Current at MPP Voltage at MPP $^4\text{Measurement tolerances P}_{\text{MPP}} \pm 3\%; |_{\text{SC}}; V_{\text{OC}} \pm 5\% \text{ at STC}: 1000 \text{ W/m², } 25 \pm 2\,^{\circ}\text{C, AM 1.5 according to IEC 60904-3} \cdot \\ ^2\text{800 W/m², NMOT, spectrum AM 1.5}$ PERFORMANCE AT LOW IRRADIANCE Q CELLS PERFORMANCE WARRANTY first year. Thereafter max. 0.54% degradation per year. At least 931% of nominal power up to 10 years. At es. Full warranties in accordance with the warranty terms of the Q CELLS sales organisation of your respective Typical module performance under low irradiance conditions in comparison to STC conditions (25°C, 1000 W/m²) TEMPERATURE COEFFICIENTS +0.04 Temperature Coefficient of V_{oc} Temperature Coefficient of Is -0.35 Normal Module Operating Temperature NMOT [°F] 109±5.4 (43±3°C) Temperature Coefficient of P_M PROPERTIES FOR SYSTEM DESIGN 1500 (IEC)/1500 (UL) Safety Class Maximum System Voltage V_{SYS}
 Maximum Series Fuse Rating
 [A DC]

 Max. Design Load, Push / Pull²
 [lbs/ft²]
 -40°F up to +185°F (-40 °C up to +85 °C) [lbs/ft²] 113 (5400Pa)/50 (2400Pa) QUALIFICATIONS AND CERTIFICATES PACKAGING INFORMATION UL 1703, CE-compliant, IEC 61215:2016, IEC 61730:2016. Number of Modules per Pallet Application Class II, U.S. Patent No. 9,893,215 (solar cells) Number of Pallets per 53' Trailer Number of Pallets per 40' HC-Container

Note: Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use

400 Spectrum Center Drive, Suite 1400, Irvine, CA 92618, USA | TEL +1 949 748 59 96 | EMAIL inquiry@us.g-cells.com | WEB www.g-cells.us

MECHANICAL SPECIFICATION

 $81.9 \, \text{in} \times 40.6 \, \text{in} \times 1.38 \, \text{in}$ (including frame)

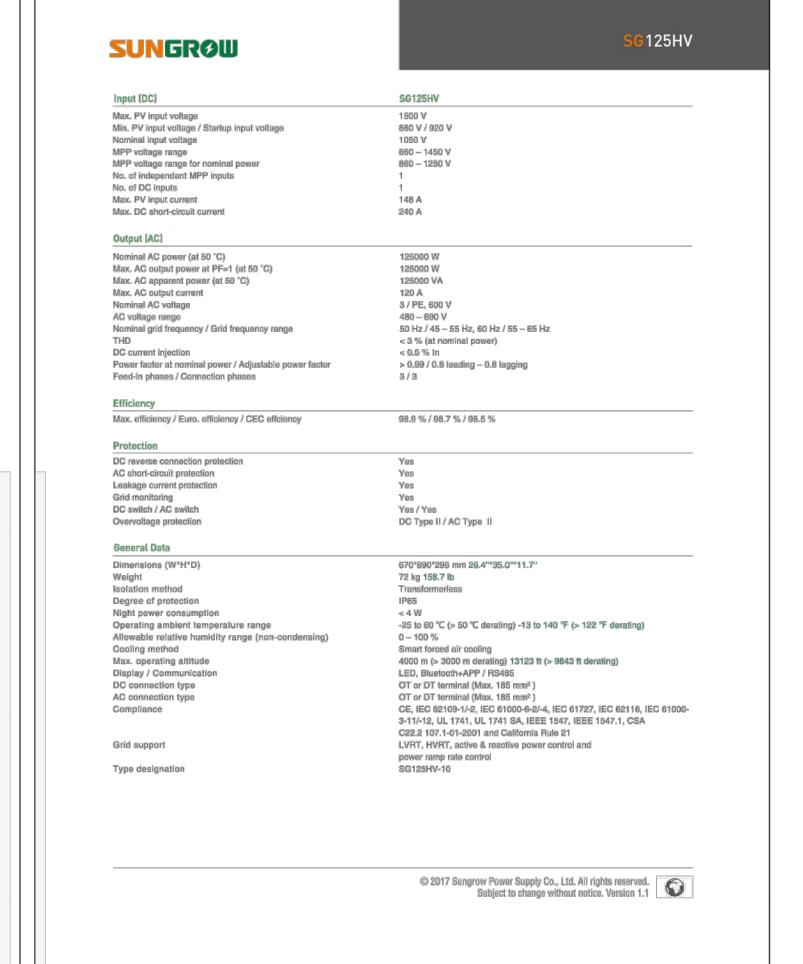
SUNGROW SG125HV String Inverter for 1500 Vdc System Easy 0&M

Virtual central solution, easy for O&M

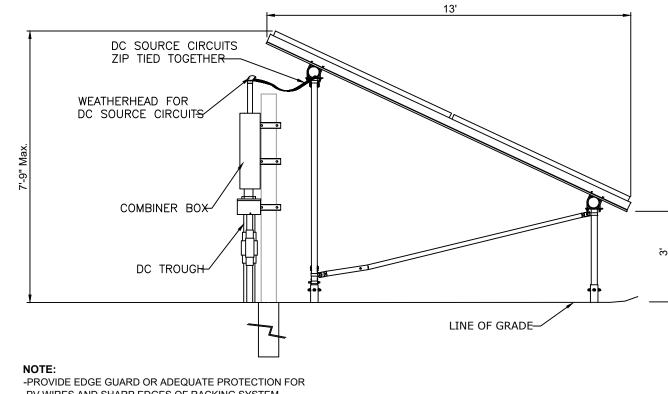
Compact design and light weight for easinstallation High Yield · Patent five-level topology, max. efficiency 98.9 %, European efficiency 98.7 %, CEC efficiency 98.5 % Compact design and light weight for easy Full power operation without derating at 50 °C Grid Support

Complian Saved Investment DC 1500 V, AC 600 V, low system initial · Compliance with both IEC and UL safety, EMC and grid support regulations • 1 to 5 MW power block design for lower MV Low/High voltage ride through (L/HVRT) transformer and labor cost Active & reactive power control and power Max. DC/AC ratio up to 1.5 ramp rate control Circuit Diagram **Efficiency Curve** 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% Normalized Output Power © 2017 Sungrow Power Supply Co., Ltd. All rights reserved. Subject to change without notice. Version 1.1

Engineered in Germany



Hanwha Q CELLS America Inc.



PV WIRES AND SHARP EDGES OF RACKING SYSTEM. -PROVIDE DRIP LOOP AND SUPPORT.

> SOLAR PANEL DETAIL NOT TO SCALE

1430 Broadway 10th Floor / York, NY 10018 ne: 212.221.7822



Drawn by: T. MILL Design by: C. CONNELLY

Checked by:

S. MEERSMA

CVE NORTH AMERICA, INC.
CORTLANDT MILL SOLAR FARM
0 MW GROUND MOUNT SOLAR SYSTEM
0 MILL COURT
CORTLANDT, NEW YORK 10520

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Contract No: 360551

Scale: AS NOTED

Date: MARCH 2021

Sheet: **DETAIL SHEET 3**

Drawing No:

NOTE: UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING), SECTION 7209 (2), IT IS A VIOLATION FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT. NOT FOR CONSTRUCTION

EROSION AND SEDIMENT CONTROL MEASURES SHALL CONSIST OF NON-WOVEN FILTER FABRIC MATERIAL WITH A WIRE MESH BACKING, OR A WOVEN FABRIC (SILT FENCE). ALL MATERIAL SHALL BE NEW AND FREE FROM DEFECTS THAT WOULD COMPROMISE THE EFFECTIVENESS OF THE CONTROL MEASURES, AFTER COMPLETION, ALL MATERIAL SHALL BE DISPOSED PROPERLY. LOCATION OF EROSION AND SEDIMENT CONTROL STRUCTURES CAN BE SEEN ON THE SITE PLAN. NOTE: ALL WATER CONTROL MEASURES ARE LOCATED DOWN-GRADIENT FROM DISTRIBUTED STREET. IF TOPSOIL IS TO BE STORED IN AN AREA NOT SHOWN ON THE SITE PLAN, DUE TO UNFORESEEN EVENTS, PRIOR TO STORING, THE DOWN-GRADIENT PERIMETER OF THE STORAGE AREA SHALL BE PROPERLY PROTECTED PER THE SPECIFICATIONS DETAILED ON THIS PLAN.

CONSTRUCTION HOUSEKEEPING

CONTRACTOR SHALL MAINTAIN THE PROJECT SITES IN ACCORDANCE WITH THE FOLLOWING PERFORMANCE STANDARDS:

MATERIAL STOCKPILING: MATERIAL RESULTING FROM CLEARING AND GRUBBING, GRADING, AND OTHER CONSTRUCTION ACTIVITIES, OR NEW MATERIAL DELIVERED TO THE SITE, SHALL BE STOCKPILED UPSLOPE OF DISTURBED AREAS. THE STOCKPILE AREAS SHALL HAVE THE PROPER EROSION AND SEDIMENT CONTROLS INSTALLED TO PREVENT MIGRATION OF SEDIMENTS AND MATERIALS.

STAGING, STORAGE, AND MARSHALLING AREAS: CONSTRUCTION MATERIALS AND EQUIPMENT SHALL BE STORED IN DESIGNATED STAGING AREAS AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE OWNER OR OWNER'S REPRESENTATIVE, OR ENGINEER. STAGING, STORAGE, AND MARSHALLING AREAS SHALL BE LOCATED IN AN AREA THAT MINIMIZES IMPACTS TO STORMWATER QUALITY. CHEMICALS, SOLVENTS FERTILIZERS, AND OTHER TOXIC MATERIALS SHALL BE COLLECTED AND DISPOSED OF AT AN APPROVED SOLID WASTE OR CHEMICAL DISPOSAL FACILITY. BULK STORAGE OF FUEL MATERIALS WILL BE STAGED AT THE PROJECT MARSHALLING YARD PER SAFETY DATA SHEET (SDS) SPECIFICATION AND ENVIRONMENTAL HEALTH AND SAFETY STANDARDS, WHICHEVER IS MORE RESTRICTIVE.

EQUIPMENT CLEANING AND MAINTENANCE: ALL ONSITE CONSTRUCTION VEHICLES SHALL BE MONITORED FOR LEAKS AND SHALL RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE RISK OF LEAKAGE. ANY EQUIPMENT LEAKING OIL, FUEL, OR HYDRAULIC OIL SHALL BE REPAIRED OR REMOVED FROM THE PROJECT SITE IMMEDIATELY. STORAGE, PARKING, MAINTENANCE, AND SERVICING OF CONSTRUCTION VEHICLES SHALL BE A MINIMUM OF 200—FEET FROM A WETLAND, WATERBODY, OR OTHER ECOLOGICALLY SENSITIVE AREA AND STORMWATER CONVEYANCE FEATURES OR WATER QUALITY TREATMENT BMPS. PETROLEUM PRODUCTS AND HYDRAULIC FLUIDS THAT ARE NOT IN VEHICLES SHALL BE STORED IN TIGHTLY SEALED CONTAINERS THAT ARE CLEARLY LABELED. ALL GASOLINE, DIESEL FUEL, OR OTHER FUEL STORAGE VESSELS WITH GREATER THAN 25—GALLON SHELL CAPACITY MUST HAVE SECONDARY CONTAINMENT CONSTRUCTED OF AN IMPERVIOUS MATERIAL CAPABLE OF CONTAINING A MINIMUM OF 110% OF THE SHELL CAPACITY.

DEBRIS AND OTHER MATERIALS: CONTRACTOR SHALL MANAGE ALL LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER TO PREVENT MATERIALS FROM BECOMING A SOURCE OF POLLUTION. ALL DEMOLITION WASTE, DEBRIS, AND RUBBISH GENERATED DURING CONSTRUCTION OF THE PROJECT SHALL BE PROPERLY REMOVED FROM THE SITE AS IT OCCURS. ALL MATERIALS SHALL BE PROPERLY DISPOSED OF OFF—SITE IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THE PROPER HANDLING, STORAGE, AND DISPOSAL OF HAZARDOUS SUBSTANCES.

TRENCH OR FOUNDATION DEWATERING: TRENCH DEWATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, SUMPS, BASINS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL REMOVE COLLECTED WATER FROM THE PONDED AREAS, EITHER THROUGH GRAVITY OR PUMPING, IN A MANNER THAT SPREADS IT THROUGH NATURAL WOODED OR VEGETATED BUFFERS OR TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT LADEN WATER FROM DEWATERING TO FLOW OVER DISTURBED AREAS OF THE PROJECT SITES. OTHER MEASURES OR METHODS MAY BE UTILIZED AS REVIEWED AND APPROVED BY THE ENGINEER.

NON-STORMWATER DISCHARGES: CONTRACTOR SHALL IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER

CONCRETE WASHOUT AREAS: DESIGNATED CONCRETE WASHOUT AREAS SHALL BE PROVIDED AS NEEDED TO ALLOW CONCRETE TRUCKS TO WASHOUT OR DISCHARGE SURPLUS CONCRETE AND WASH WATER ONSITE. CONCRETE WASHOUT AREAS SHALL BE A DIKED IMPERVIOUS AREA LOCATED A MINIMUM OF 100 FEET FROM A DRAINAGE WAY, WATERBODY, WETLAND AREA, OR INFILTRATION BMP. CONCRETE WASHOUT AREAS SHALL HAVE PROPER SIGNAGE AND BE CONSTRUCTED TO PREVENT CONTACT BETWEEN WASHWATER AND STORMWATER. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF CONCRETE WASHOUT AREAS. CONCRETE WASHOUT AREAS SHALL NOT BE FILLED BEYOND 95 OF DESIGN CAPACITY AND SHALL BE CLEANED OUT ONCE 75% CAPACITY HAS BEEN MET UNLESS A NEW FACILITY HAS BEEN CONSTRUCTED.

ADDITIONAL REQUIREMENTS: COMPLETION OF THE WORK WILL REQUIRE FREQUENT ACCESS TO VARIOUS PORTIONS OF THE PROJECT AREA FROM STATE AND LOCAL ROADWAYS. CONTRACTOR SHALL MONITOR PUBLIC ROADWAYS AND SHALL CLEAN PAVEMENT BY MEANS NECESSARY IN THE EVENT THAT SEDIMENT OR TRACKING IS OBSERVED. SIGNAGE SHALL BE POSTED AT INTERSECTIONS OF PROJECT ACCESS ROADS AND PUBLIC WAYS, STATING COMPANY NAME AND 24—HOUR CONTACT PHONE NUMBER.

TEMPORARY STABILIZATION FOR FROZEN CONDITIONS

SITE STABILIZATION: MULCHING SHOULD BE TRACKED INTO SOIL PRIOR TO FROZEN CONDITIONS, OR ANCHORED WITH NATURAL FIBER NETTING. APPLICATION OF MULCHING SHOULD BE PERFORMED PRIOR TO SIGNIFICANT SNOW FALL. IF STRAW MULCH ALONE IS USED FOR TEMPORARY STABILIZATION, IT SHALL BE APPLIED AT DOUBLE THE STANDARD RATE OF 2 TONS PER ACRE, MAKING THE APPLICATION RATE 4 TONS PER ACRE. OTHER MANUFACTURED MULCHES SHOULD BE APPLIED AT DOUBLE THE MANUFACTURER'S RECOMMENDED RATE. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTS CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES SHOULD BE INITIATED BY THE END OF NEXT BUSINESS DAY AND COMPLETED WITHIN THREE DAYS. ACCUMULATED SNOW AND FROZEN CONDITIONS ALONE ARE NOT CONSIDERED STABILIZATION.

<u>SLOPES</u>: ALL SLOPES AND GRADES MUST BE PROPERLY STABILIZED WITH APPROVED METHODS. ROLLED EROSION CONTROL PRODUCTS MUST BE USED ON ALL SLOPES GREATER THAN 3H:1V, OR WHERE CONDITIONS FOR EROSION DICTATE SUCH MEASURES.

<u>SETBACKS</u>: A MINIMUM 25-FOOT BUFFER SHALL BE MAINTAINED FROM ALL PERIMETER CONTROLS SUCH AS SILT FENCE. MARK SILT FENCE WITH TALL STAKES THAT ARE VISIBLE ABOVE THE SNOW PACK. EDGES OF DISTURBED AREAS THAT DRAIN TO A WATERBODY WITHIN 100-FEET WILL HAVE 2 ROWS OF SILT FENCE, 5-FEET APART, INSTALLED ALONG THE CONTOUR.

<u>SOIL STOCKPILES</u>: STOCKPILED SOILS MUST BE PROTECTED BY THE USE OF ESTABLISHED VEGETATION, ANCHORED –DOWN MULCH, ROLLED EROSION CONTROL PRODUCTS, OR OTHER DURABLE COVERING. SEDIMENT CONTROLS MUST BE INSTALLED DOWNSLOPE OF THE PILE TO CONTROL SEDIMENTATION TO UNDISTURBED LOCATIONS.

CONSTRUCTION ENTRANCE: ALL ENTRANCE AND EXIT LOCATIONS TO THE SITE MUST BE PROPERLY STABILIZED AND MUST

BE MAINTAINED TO ACCOMMODATE SNOW MANAGEMENT AS SET FORTH IN THE NEW YORK SSESC.

SNOW MANAGEMENT: SNOW MANAGEMENT SHALL NOT DESTROY OR DEGRADE EROSION AND SEDIMENT CONTROL PRACTICES. PLOWING PERFORMED SHOULD NOT MIGRATE PLACED CRUSHED STONE OR ACCUMULATED MATTING DEBRIS WITHIN WATERBODIES, CONVEYANCES OR PROTECTED AREAS. PREPARE A SNOW MANAGEMENT PLAN WITH ADEQUATE STORAGE FOR SNOW AND CONTROL OF MELT WATER, REQUIRING CLEARED SNOW TO BE STORED IN A MANNER NOT AFFECTING ONGOING CONSTRUCTION ACTIVITIES. ENLARGE AND STABILIZE ACCESS POINTS TO PROVIDE FOR SNOW MANAGEMENT AND STOCKPILING. DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS. ALL DEBRIS OR ICE DAMS FROM PLOWING OPERATIONS THAT RESTRICT FLOW OF RUNOFF AND MELT WATER SHALL BE REMOVED.

FROST HEAVES: HEAVING FROST, FROZEN GROUND, WINTER CONDITIONS AND EQUIPMENT CAN AFFECT EROSION AND SEDIMENTATION CONTROL PRACTICES. EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE CHECKED FOR DAMAGE BY TRAINED CONTRACTOR AND QUALIFIED INSPECTORS. DEFICIENCIES SHALL BE REPAIRED AND OR INSTALLED MEASURES SHALL BE REPLACED AS DEEMED NECESSARY. THIS IS ESPECIALLY IMPORTANT DURING THAWING PERIODS AND PRIOR TO SPRING RAIN EVENTS.

<u>WINTER SHUTDOWN</u>: IN THE EVENT OF <u>TEMPORARY</u> SHUTDOWN TO SOIL DISTURBING ACTIVITIES UNDER WINTER CONDITIONS, TEMPORARY STABILIZATION MEASURES SHALL BE IMPLEMENTED TO ALL DISTURBED AREAS AND SWPPP INSPECTIONS CAN BE REDUCED TO A MONTHLY FREQUENCY. THE CONTRACTOR SHALL REFER TO SOIL STABILIZATION MEASURES IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NOVEMBER 2016) AND SPDES GENERAL PERMIT GP-0-20-001.

PERMANENT CONSTRUCTION AREA SEEDING

FINAL STABILIZATION SHOULD BE IMPLEMENTED AT THE COMPLETION OF EACH PHASE. ONCE CONSTRUCTION IS COMPLETE, EXPOSED SOILS REQUIRE FINAL AND PERMANENT STABILIZATION. SOILS SHOULD BE GRADED SMOOTH AND LEVEL TO ELIMINATE RUTTING AND CONCENTRATED FLOWS, PONDING AND UNEVEN SURFACES FOR FUTURE MAINTENANCE ACTIVITIES. UNIMPROVED AREAS SHOULD BE RESTORED TO ORIGINAL GRADE UNLESS PERMITTED AND PLANNED FOR REQUIRED FUTURE MAINTENANCE. CONSERVED STOCKPILED TOPSOIL SHOULD BE UTILIZED FOR TOPDRESSING GRADED SUB—SOILS AT EXCAVATION LOCATIONS. ANY SEVERELY COMPACTED SECTIONS WILL REQUIRE TILLING OR DISKING TO PROVIDE AN ADEQUATE ROOTING ZONE, TO A MINIMUM DEPTH OF 12". THE SEEDBED MUST BE PREPARED TO ALLOW GOOD SOIL TO SEED CONTACT, WITH THE SOIL NOT TOO SOFT AND NOT TOO COMPACT. ADEQUATE SOIL MOISTURE MUST BE PRESENT TO ACCOMPLISH THIS. IF SURFACE IS POWDER DRY OR STICKY WET, POSTPONE OPERATIONS UNTIL MOISTURE CHANGES TO A FAVORABLE CONDITION. REMOVE ALL STONES AND OTHER DEBRIS FROM THE SURFACE THAT ARE GREATER THAN 4 INCHES, OR THAT WILL INTERFERE WITH FUTURE MOWING OR MAINTENANCE.

SOIL AMENDMENTS SHOULD BE INCORPORATED INTO THE UPPER 2 INCHES OF SOIL WHEN FEASIBLE. THE SOIL SHOULD BE TESTED TO DETERMINE THE AMOUNTS OF AMENDMENTS NEEDED. APPLY GROUND AGRICULTURAL LIMESTONE TO ATTAIN A PH OF 6.0 IN THE UPPER 2 INCHES OF SOIL. IF SOIL MUST BE FERTILIZED BEFORE RESULTS OF A SOIL TEST CAN BE OBTAINED TO DETERMINE FERTILIZER NEEDS, APPLY COMMERCIAL FERTILIZER AT 600 LBS. PER ACRE OF 5-5 -10 OR EQUIVALENT.

IF SOILS ARE SOFT, MECHANICAL MULCHING MAY NOT BE AVAILABLE DUE TO THE INEVITABLE RUTTING WITH MULCHING EQUIPMENT.

ANY UPLAND AREAS THAT ARE DISTURBED SHALL BE STABILIZED USING PERMANENT SEED MIX AS SPECIFIED IN THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (SSESC), UNLESS DIRECTED OTHERWISE IN ASSOCIATED PERMITTING DOCUMENTS.

PROJECT CONSTRUCTION SEQUENCING NOTES

THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCING OR CONSTRUCTION PHASING PLAN FOR OWNER APPROVAL THAT COMPLIES WITH THE PERMITTING REQUIREMENTS, THE PROJECT SWPPP, AND OTHER REQUIREMENTS AS IDENTIFIED BY LOCAL AND STATE AUTHORITIES. THE PLAN SHALL SHOW THAT ACTIVE LAND DISTURBANCE WILL BE LIMITED TO LESS THAN FIVE (5) CONTIGUOUS ACRES AND SHALL ADEQUATELY DISCUSS, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:

- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS FOR TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES AS OUTLINED IN THE PROJECT SWPPP OR AS DIRECTED BY THE OWNER.
 PRIOR TO STARTING ANY WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL OBTAIN ALL PERMITS,
- PRIOR TO COMMENCING ONSITE EARTHWORK ACTIVITIES, THE CONTRACTOR SHALL ESTABLISH THE CONSTRUCTION WORKSPACE LIMITS AND IDENTIFY AND MARK SENSITIVE RESOURCES.
 THE CONTRACTOR SHALL INSTALL ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES (BMPs) IN ORDER TO PROTECT DOWN GRADIENT AREAS. WHERE APPROPRIATE, DIVERSION BMPs SHALL

NOTIFY CITY OFFICIALS OF CONSTRUCTION COMMENCEMENT, AND SUBMIT CONSTRUCTION TIMETABLE.

- BE IMPLEMENTED TO DIRECT RUNOFF FROM UPGRADIENT AREAS AROUND THE PROJECT SITE.

 5. ON—SITE CONSTRUCTION SEQUENCE SHALL START WITH THE MINIMUM AMOUNT OF CLEARING REQUIRED TO INSTALL EROSION CONTROL MEASURES. THIS INCLUDES, SILTATION FENCING, ANTI—TRACK PADS (STABILIZED CONSTRUCTION ENTRANCE), AND OTHER MEASURES NOTED ON THE PLAN. NO WORK SHALL TAKE PLACE UNTIL THE OWNER'S REPRESENTATIVE HAS INSPECTED AND APPROVED INSTALLED MEASURES.
- 6. AFTER PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES WITHIN THE CURRENT PHASE OF WORK ARE INSTALLED AND FUNCTIONING, THE CONTRACTOR SHALL OBTAIN OWNER APPROVAL BEFORE BEGINNING EARTHWORK IN THE SUBSEQUENT PHASE.
- 7. AFTER EROSION CONTROL MEASURES ARE INSTALLED THE TYPICAL SEQUENCE SHALL BE AS FOLLOWS:

 a. REMOVE VEGETATION FROM PROPOSED DEVELOPMENT AREA. ALL STUMPS AND WOOD SHALL BE TAKEN OFF—SITE AND DISPOSED ACCORDINGLY.
- b. REMOVE AND STOCKPILE TOPSOIL AFTER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. THE TOPSOIL SHALL BE SEEDED IMMEDIATELY AFTER STOCKPILING IN ORDER TO STABILIZE THE SLOPE AND LIMIT SEDIMENT RUNOFF. STOCKPILED TOPSOIL SHALL BE SEEDED AND MULCHED WHEN IT IS TO BE STORED MORE THAN 30 DAYS FROM TIME OF STOCKPILING. THE SITE CAN NOW BE REFORMED TO PROPOSED FINAL ELEVATIONS (LESS TOPSOIL DEPTH).
- c. PROCEED WITH ALL WORK DEPICTED ON THE DEMOLITION PLAN, IF ANY.
 d. PREPARE AND COMPACT SUBGRADE (IF AND AS DIRECTED) AND INSTALL DRAINAGE AND STORMWATER BMP'S IN ACCORDANCE WITH "GRADING AND STORMWATER MANAGEMENT PLAN".
- e. EXCAVATE SOIL TO THE DEPTH NECESSARY TO CONSTRUCT GRAVEL ACCESS ROAD AND POROUS ASPHALT PAVEMENT. ALL REMOVED TOPSOIL SHALL BE UTILIZE ON SITE AS LOAM FOR GRASS AREAS. NO SOILS SHALL BE REMOVED FROM THE SUBJECT PROPERTY.
- f. COMPLETE REMAINING GRADING REQUIRED AS SHOWN ON THE GRADING PLANS. INSTALL EROSION CONTROL MATTING ON ALL SLOPES OF 3H:1V OR GREATER (IF ANY), THEN SEED AND MULCH THE AREA.
- g. INSTALL CONCRETE UTILITY PADS, FOOTINGS, PHOTOVOLTAIC PANELS, UTILITY POLES, FENCE AND GATES AND OTHER IMPROVEMENTS PER THE PLAN.
 h. LOAM AND SEED FRONT YARD AND ALL REMAINING DISTURBED AREAS. UTILIZE EXISTING SITE SOIL WHERE POSSIBLE.
- i. REMOVE ALL EROSION AND SEDIMENT STRUCTURES AFTER FINAL STABILIZATION AND ACCEPTANCE. IF STABILIZATION DOES NOT OCCUR (INCLUDING DUE TO SEASONAL CONDITIONS) IN ALL AREAS BEFORE CONTRACTOR HAS SATISFIED ALL OTHER CONDITIONS TO FINAL ACCEPTANCE, CONTRACTOR SHALL PROVIDE A PLAN (INCLUDING APPROPRIATE PERFORMANCE ASSURANCES) TO THE OWNER'S REPRESENTATIVE TO REMOVE SUCH EROSION CONTROL MEASURES AFTER STABILIZATION (AND ALLOWING CONTRACTOR TO ACHIEVE FINAL ACCEPTANCE), FOR ACCEPTANCE IN THE SOLE AND ABSOLUTE DISCRETION BY THE OWNER'S REPRESENTATIVE.
- j. DURING THIS TIME ALL EROSION AND SEDIMENT STRUCTURES SHALL BE MAINTAINED IN PROPER WORKING ORDER. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM AND SHALL ONLY TAKE PLACE WHERE IMMEDIATELY REQUIRED TO FURTHER CONSTRUCTION. IT IS DESIRABLE FOR AN EROSION PREVENTION TO MINIMIZE DISTURBED AREAS. FINAL GRADING AND SEEDING SHALL TAKE PLACE AS SOON AS PRACTICAL.

MULCH ANCHORING REQUIREMENTS

ON SLOPES GREATER THEN 3 PERCENT, STRAW MULCH WILL BE FIRMLY ANCHORED INTO SOIL UTILIZING ONE OF THE FOLLOWING METHODS:

CRIMPING WITH A STRAIGHT OR NOTCHED MULCH CRIMPING TOOL;
 TRACK WALKING WITH DEEP-CLEATED EQUIPMENT OPERATING UP AND DOWN THE SLOPE (MULCH CRIMPED PERPENDICULAR TO THE SLOPE) ON SLOPES <25 PERCENT;

APPLICATION OF MULCH NETTING;
 APPLICATION OF 500 LB./ACRE OF WOOD FIBER MULCH OVER STRAW/HAY MULCH; AND

- COMMERCIALLY AVAILABLE TACKIFIERS (EXCEPT WITHIN 100 FEET OF WATERBODIES OR WETLANDS)

CONSTRUCTION LITTER CONTROL

3. GRAVEL BEDDING TO CONSIST OF AASHTO NO. :

4. FILTER FABRIC TO BE MIRAFI 140N OR EQUAL.

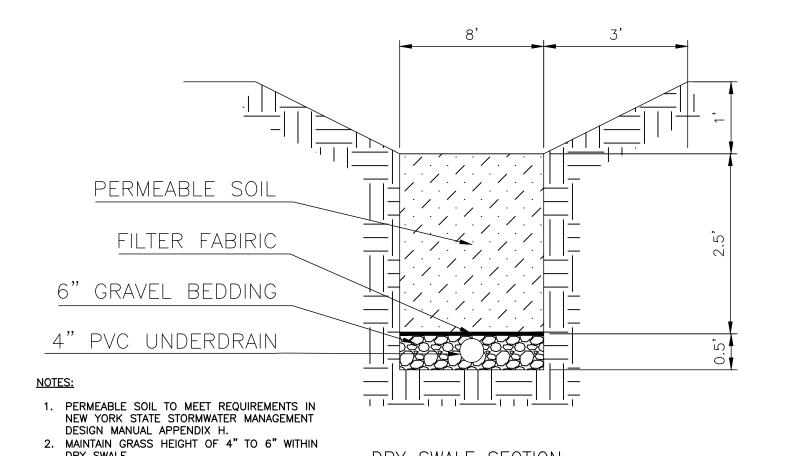
DURING CONSTRUCTION, ALL WRAPPING, BOXES, SCRAPS OF BUILDING MATERIAL, AND OTHER LITTER ITEMS SHALL BE DISPOSED OF PROPERLY BY USE OF DUMPSTER OR CARTED AWAY. THE SITE SHALL BE INSPECTED AND CLEANED DAILY DURING CONSTRUCTION.

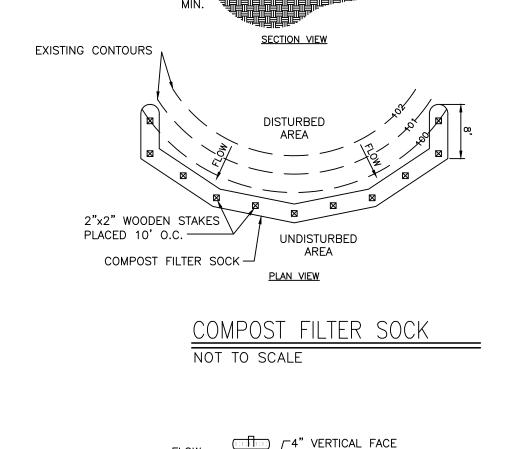
PROTECTION OF POST-CONSTRUCTION STORMWATER BMPs

POST—CONSTRUCTION STORMWATER BMPs DESIGNED FOR WATER QUALITY TREATMENT SHALL NOT BE USED AS A SEDIMENT CONTROL DEVICES DURING CONSTRUCTION PHASE OF THE PROJECT. WHEN POSSIBLE, POST CONSTRUCTION STORMWATER BMP INSTALLATION SHALL OCCUR AFTER FINAL STABILIZATION IS ACHIEVED IN UPGRADIENT AREAS.

CONSTRUCTION PHASE STORMWATER SHALL BE DIVERTED AROUND POST—CONSTRUCTION STORMWATER QUALITY BMPS

CONSTRUCTION PHASE STORMWATER SHALL BE DIVERTED AROUND POST—CONSTRUCTION STORMWATER QUALITY BMPs UNTIL FINAL STABILIZATION IS ACHIEVED IN UPGRADIENT AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF BMP FILTER MATERIAL IN THE EVENT CONSTRUCTION PHASE STORMWATER IS DISCHARGED TO CONSTRUCTED BMPs. NATURE AND DEGREE OF REPAIR SHALL BE AS DIRECTED BY THE OWNER.





EMBEDDING DETAII

2 RE-BARS, STEEL PICKETS,

2'-0" IN GROUND -

ANGLE FIRST STAKE

TOWARD PREVIOUSLY

LAID BALE -

OR 2 X 2 STAKES 1'-6" TO

ANCHORING DETAIL

NOT TO SCALE

BLOWN/PLACED FILTER MEDIA -

DISTURBED

~ 2"x2" WOODEN STAKES PLACED 10' O.C.

- COMPOST FILTER SOCK

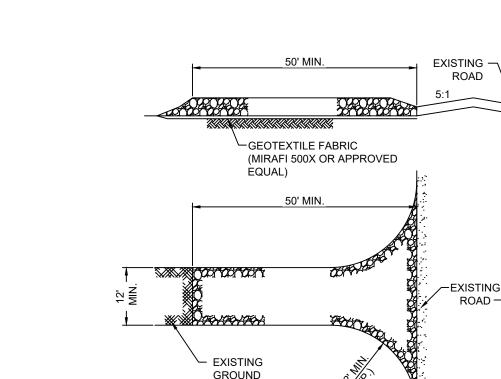
WIRE OR NYLON BOUND

CUT SIDE ALONG THE

BALES PLACED ON THEIR

- PLASTIC LINER, 10

STRAW BALES



SILT FENCE

SEE TYP.

DETAIL

SLOPE OR LESS

INSTALLATION NOTES:

BE DRY AND STABLE.

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL

3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE

SHALL BE SURROUNDED WITH EITHER SILT FENCING

OR STRAW BALES, THEN STABILIZED WITH VEGETATION

2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.

 WIDTH OF STABILIZED CONSTRUCTION ENTRANCE VARIES PER LOCATION. PROVIDE WIDTHS AS INDICATED ON PLAN SET.
 STONE SIZE - USE 1" - 4" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

STABILIZE ENTIRE PILE

SILT FENCE SEE

WITH VEGETATION OR

COVER

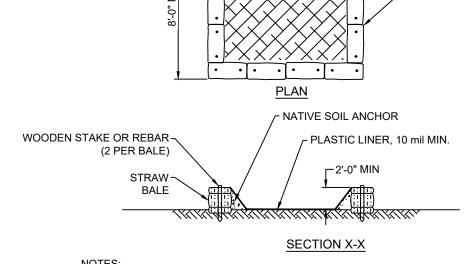
LENGTH - NOT LESS THAN 50 FEET.
 THICKNESS - NOT LESS THAN SIX (6) INCHES.
 WIDTH - TWELVE (12) FOOT MIN. BUT NOT LESS THAN THE FULL ROAD WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. PROVIDE TWENTY-FOUR (24) FOOT WIDTH IF THERE IS ONLY A SINGLE ENTRANCE TO SITE.

GEOTEXTILE - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE.
 SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED,

TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

9. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

STABILIZED CONSTRUCTION ENTRANCE

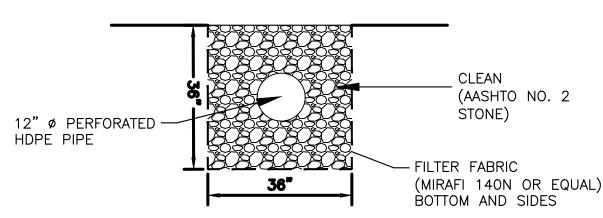


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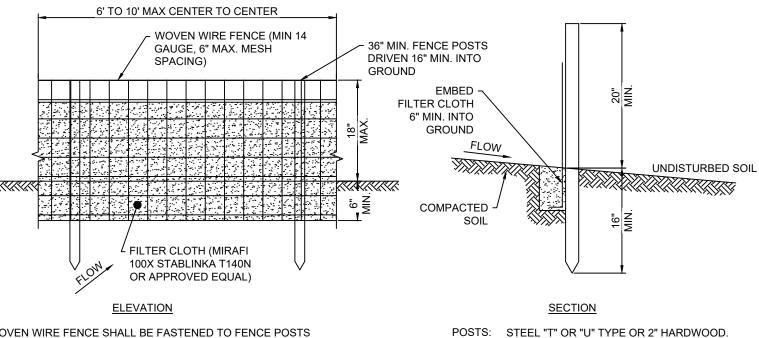
1. SUMP(S) SHALL BE LOCATED NEAR WORK SITES BUT SHALL BE PLACED AS FAR AWAY FROM WETLANDS. BUFFERS AND DRAINAGE SWALES AS PRACTICAL.

SUMP(S) SHALL BE CLEANED AND WASTE CONCRETE REMOVED AND PROPERLY DISPOSED OF PERIODICALLY AND UPON COMPLETION OF WORK.
 A SIGN SHALL BE INSTALLED INDICATING "CONCRETE WASHOUT".

CONCRETE WASHOUT AREA



STORMWATER DIAPHRAGM NOT TO SCALE



 WOVEN WIRE FENCE SHALL BE FASTENED TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 FILTER CLOTH SHALL BE FASTENED SECURELY TO WOVEN WIRE

FILTER CLOTH SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MIDSECTION.

WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.

MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BUILD-UP REACHES ⅓ THE HEIGHT

POSTS: STEEL "T" OR "U" TYPE OR 2" HARDWOOD.

FENCE: WOVEN WIRE. 14½ GA 6" MAX MESH OPENING.

FILTER CLOTH: FILTER X, MIRAFI 100X. STABLINKA

FILTER CLOTH: FILTER X, MIRAFI 100X. STABLINKA T140N OR APPROVED EQUAL.

PREFABRICATED UNIT: ENVIROFENCE OR APPROVED EQUAL

SILT FENCE DETAILS
OF TO SCALE

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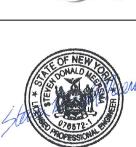
NOT FOR CONSTRUCTION

1430 Broadwa 10th Floo Iew York, NY 1001 hone: 212.221.782

TAT V

f Energy

Changing Visions of Energy



Drawn by:
T. MILL
Design by:

T. MILL

Design by:
C. CONNELLY

Checked by:
S. MEERSMA

MERICA, INC. LL SOLAR FARM UNT SOLAR SYSTEM

CVE NORTH AMERICA, II
CORTLANDT MILL SOLAR F
.0 MW GROUND MOUNT SOLAF
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MARCH 2021

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