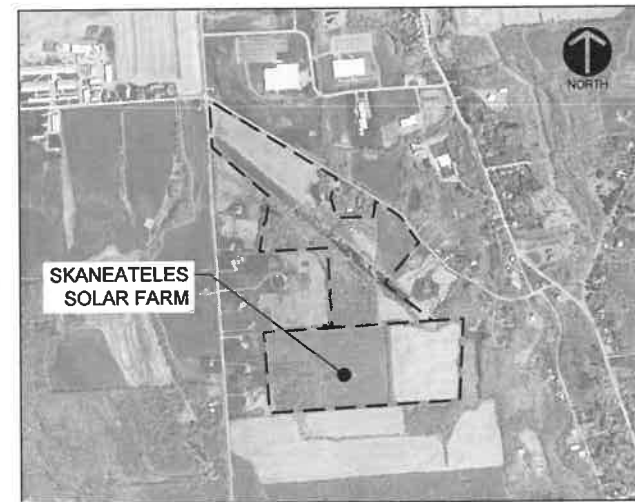


TJA-NY-SKANEATELES SOLAR FARM, LLC.

SKANEATELES SOLAR FARM

740 SHELDON ROAD
TOWN OF SKANEATELES



LOCATION MAP
1"=1000'

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C120	SHEET 6 OF	18	OVERALL GRADING & EROSION CONTROL PLAN
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C300 - C301	SHEET 9 - 10 OF	18	DRIVEWAY PROFILE
C500 - C507	SHEET 11 - 18 OF	18	DETAILS I - DETAILS VIII

PROJECT INFORMATION:

LATITUDE: 42.977653 N
 LONGITUDE: 76.453936 W
 TOWN: SKANEATELES
 COUNTY: ONONDAGA
 STATE: NEW YORK

PROJECT OWNER/APPLICANT:

TJA-NY-SKANEATELES SOLAR FARM, LLC.
 150 JOHN VERTENTE BOULEVARD
 NEW BEDFORD, MA 02745
 PH: (315) 558-2344
 CONTACT: MICHAEL FRATESCHI

PREPARED BY:

BERGMANN
 2 WINNERS CIRCLE, SUITE 102
 ALBANY, NY 12205
 PH: (518) 556-3631
 CONTACT: ERIC REDDING, P.E.

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 www.bergmannpc.com
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**TJA-NY-SKANEATELES
SOLAR FARM, LLC.**

**SKANEATELES
SOLAR FARM**
 740 SHELDON ROAD
 SKANEATELES, NY 13152

Date Revised	Description

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CONSTRUCTION

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Project Manager ECR	Discipline Lead ECR
Designer JL	Reviewer ECR
Date Issued 06/31/2022	Project Number 18227-00

Sheet Name

COVER SHEET

Drawing Number

C000

ARCH D 246-6
M.T.J.M. Clean Energy/0116207.D01 T.J.A. Clean Energy - Skaneateles Solar Proj. 4.0 Dwg. 01.1 CHN1823700C010.dwg
1/05/2025 9:41 AM

SEQUENCE OF CONSTRUCTION:

- PRE-CONSTRUCTION MEETING HELD TO INCLUDE PROJECT MANAGER, OPERATOR'S ENGINEER, CONTRACTOR, AND SUB-CONTRACTORS PRIOR TO LAND DISTURBING ACTIVITIES.
- CONSTRUCT CONSTRUCTION ENTRANCE/EXIT AT LOCATIONS DESIGNATED ON PLANS.
- INSTALL PERIMETER SILT SOCK.
- HAVE A QUALIFIED PROFESSIONAL CONDUCT AN ASSESSMENT OF THE SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- BEGIN CLEARING AND GRUBBING OPERATIONS. CLEARING AND GRUBBING SHALL BE DONE ONLY IN AREAS WHERE EARTHWORK WILL BE PERFORMED AND ONLY IN AREAS WHERE CONSTRUCTION IS PLANNED TO COMMENCE WITHIN 14 DAYS AFTER CLEARING AND GRUBBING. NO MORE THAN 5 ACRES WILL BE DISTURBED AT ANY ONE GIVEN TIME.
- STRIP TOPSOIL AND STOCKPILE IN A LOCATION ACCEPTABLE TO CONSTRUCTION MANAGER. WHEN STOCKPILE IS COMPLETE, INSTALL PERIMETER SILT FENCE, SEED SURFACE WITH 100% PERENNIAL RYEGRASS MIXTURE AT A RATE OF 2-4 LBS. PER 1000 SF. APPLY 90-100 LBS PER 1000 SF OF MULCH.
- COMMENCE EARTHWORK CUT AND FILLS. THE WORK SHALL BE PROGRESSED TO ALLOW A REASONABLE TRANSFER OF CUT AND FILL EARTH FOR ROUGH GRADING AND EARTH MOVING. THE CONTRACTOR WILL BE GIVEN SOME LATITUDE TO VARY FROM THE FOLLOWING SCHEDULE IN ORDER TO MEET THE FIELD CONDITIONS ENCOUNTERED. CONTRACTOR SHALL REVIEW VARIATIONS TO SWPPP WITH DESIGN ENGINEER AND QUALIFIED PROFESSIONAL PRIOR TO IMPLEMENTATION. NO MORE THAN 5 ACRES WILL BE DISTURBED AT ANY ONE GIVEN TIME.
- INSTALL TEMPORARY CONSTRUCTION ROAD (SEE SHEET C502 FOR DETAIL), AS NEEDED, AND IMMEDIATELY STABILIZE WITH CRUSHED STONE (OR EQUIVALENT) TO PREVENT EROSION AS SOON AS PRACTICABLE.
- STABILIZE ALL AREAS AS SOON AS PRACTICABLE. IDLE IN EXCESS OF 7 DAYS AND IN WHICH CONSTRUCTION WILL NOT RECOMMENCE WITHIN 14 DAYS.
- INSTALL PERIMETER FENCE, SOLAR PANELS, UTILITIES, AND APPURTENANCES. TRENCH EXCAVATION/BACKFILL AREAS SHOULD BE STABILIZED PROGRESSIVELY AT THE END OF EACH WORKDAY WITH SEED AND STRAW MULCH AT A RATE OF 100% PERENNIAL RYE GRASS AT 2-4 LBS./1000 SF MULCHED AT 90-100 LBS./1000 SF.
- STABILIZE ALL AREAS IDLE IN EXCESS OF 7 DAYS IN WHICH CONSTRUCTION WILL NOT RECOMMENCE WITHIN 14 DAYS.
- REMOVE TEMPORARY CONSTRUCTION EXIT(S) AND PERIMETER SILT SOCK ONCE THE SITE HAS REACHED 80% UNIFORM STABILIZATION.
- REMOVE TEMPORARY CONSTRUCTION ROAD AND CONSTRUCT THE PROPOSED LIMITED-USE PERVIOUS GRAVEL DRIVEWAY (SEE SHEET C500 AND C501 FOR DETAIL). THE SUB-GRADE MATERIAL WHERE THE DRIVEWAY IS TO BE INSTALLED SHALL BE DECOMPACTED PER NYSDOT'S "DEEP-RIPPING AND DECOMPACTION" MANUAL, DATED APRIL 2008. CONTRACTOR SHALL AVOID FREQUENT HEAVY TRAFFIC ON THE LIMITED-USE PERVIOUS GRAVEL.

GENERAL NOTES:

- 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 1-800-962-7862.
- THE CONTRACTOR SHALL PERFORM ALL WORK IN COMPLIANCE WITH TITLE 20 OF FEDERAL REGULATIONS, PART 1926, SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION (OSHA).
- HIGHWAY DRAINAGE ALONG ALL ROADS AND PRIVATE DRIVES SHALL BE KEPT CLEAN OF MUD, DEBRIS ETC. AT ALL TIMES.
- THE CONTRACTOR SHALL CONSULT THE DESIGN ENGINEER BEFORE DEVIATING FROM THESE PLANS.
- 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.
- IF SUSPICIOUS AND/OR HAZARDOUS MATERIAL IS ENCOUNTERED DURING DEMOLITION/CONSTRUCTION, ALL WORK SHALL STOP AND THE ONONDAGA COUNTY DEPARTMENT OF HEALTH AND THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 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.
- EXCAVATED WASTE MATERIAL REMOVED FROM THE SITE SHALL BE PLACED AT A LOCATION ACCEPTABLE TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
- AREAS DISTURBED OR DAMAGED AS PART OF THIS PROJECT'S CONSTRUCTION THAT ARE OUTSIDE OF THE PRIMARY WORK AREA SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- UNLESS COVERED BY THE CONTRACT SPECIFICATIONS OR AS NOTED ON THE PLANS, ALL WORK SHALL CONFORM TO THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED MAY 1, 2008 AND ANY SUBSEQUENT APPENDICES.

WASTE/HAZARDOUS MATERIAL PRACTICES:

- WHENEVER POSSIBLE COVERED TRASH CONTAINERS SHOULD BE USED.
- DAILY SITE CLEANUP IS REQUIRED TO REDUCE DEBRIS AND POLLUTANTS IN THE ENVIRONMENT.
- CONTRACTOR SHALL PROVIDE A SAFE STORAGE SPACE FOR ALL PAINTS, STAINS AND SOLVENTS INSIDE A COVERED STORAGE AREA.
- ALL FUELS, OILS, AND GREASE MUST BE KEPT IN CONTAINERS AT ALL TIMES.

EROSION & SEDIMENT CONTROL NOTES:

- INSTALL EROSION CONTROL MEASURES AS INDICATED ON THE PLAN PRIOR TO THE START OF ANY EXCAVATION WORK. EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL MANUAL, NEW YORK STATE HEALTH DEPARTMENT, AND THE GOVERNING MUNICIPAL REQUIREMENTS.
- REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANAGER. REPLACE TOPSOIL TO A MINIMUM 4" DEPTH WITH TOPSOIL OR AMENDED SOIL. ALL DISTURBED AREAS TO BE SEED TO PROMOTE VEGETATION AS SOON AS PRACTICABLE.
- IF THE SEASONS PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE "STANDARDS", NETTING OR LIQUID MULCH BINDER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE 80% UNIFORM VEGETATION HAS BEEN ACHIEVED.
- ALL EROSION CONTROL MEASURES ARE TO BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE AND SHALL BE REPLACED AT A MINIMUM OF EVERY 3 MONTHS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL OR AMENDED TO ALL DISTURBED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
- THE CONTRACTOR SHALL DESIGNATE A MEMBER OF HIS/HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL, EROSION CONTROL STRUCTURES, TREE PROTECTION AND PRESERVATION THROUGHOUT CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE FINISH GRADED TO PROMOTE VEGETATION ON ALL EXPOSED AREAS AS SOON AS PRACTICABLE. STABILIZATION PRACTICES (TEMPORARY/PERMANENT SEEDING, MULCHING, GEOTEXTILES, ETC.) MUST BE IMPLEMENTED WITHIN SEVEN (7) DAYS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND NOT EXPECTED TO RESUME WITHIN FOURTEEN (14) DAYS.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. ALL CONSTRUCTION DEBRIS AND SEDIMENT SPOILS, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
- DUST SHALL BE CONTROLLED BY WATERING.
- ADJOINING PROPERTY SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
- SLOPE TRACKING SHALL BE IMPLEMENTED ON ALL SLOPE 1 ON 3 OR GREATER AT THE END OF EACH WORK DAY AND PRIOR TO FINAL SLOPE GRADING AND STABILIZATION.

SITE STABILIZATION:

- WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS, THE AREA SHOULD BE MULCHED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON.
- MULCHES SHOULD BE APPLIED AT THE RATES SHOWN IN THE MULCH APPLICATION RATES TABLE. VERY LITTLE BARE GROUND SHOULD BE VISIBLE THROUGH THE MULCH.
- STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN. A TRACTOR-DRAWN IMPLEMENT MAY BE USED TO "CRIMP" THE STRAW OR HAY INTO THE SOIL - ABOUT 3 INCHES. THIS METHOD SHOULD BE LIMITED TO SLOPES NO STEEPER THAN 3H:1V. THE MACHINERY SHOULD BE OPERATED ALONG THE CONTOUR. NOTE: CRIMPING OF HAY OR STRAW BY RUNNING OVER IT WITH TRACKED MACHINERY IS NOT RECOMMENDED.
- BEFORE SEEDING IS APPLIED THE CONTRACTOR SHALL SPREAD SOIL TO PREVENT PONDING AND CONFIRM THAT SOIL WILL SUSTAIN THE SEED GERMINATION AND ESTABLISHMENT OF VEGETATION.
- GRADED AREAS SHOULD BE SCARIFIED OR OTHERWISE LOOSEMED TO A DEPTH OF 3 TO 5 INCHES TO PERMIT BONDING OF THE TOPSOIL TO THE SURFACE AREAS AND TO PROVIDE A ROUGHENED SURFACE TO PREVENT TOPSOIL FROM SLIDING DOWN SLOPE. COMPACTED SOILS SHOULD BE SCARIFIED TO A DEPTH OF 6 TO 12 INCHES, ALONG CONTOUR WHEREVER POSSIBLE, PRIOR TO SEEDING.
- TOPSOIL OR AMENDED SOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A MINIMUM DEPTH OF 6 INCHES. SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SODDING OR SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE. IRREGULARITIES IN THE SURFACE RESULTING FROM TOPSOIL PLACEMENT SHOULD BE CORRECTED IN ORDER TO PREVENT FORMATION OF DEPRESSIONS.
- TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OR SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- WHEN USED AS A MULCH REPLACEMENT, THE APPLICATION RATE (THICKNESS) OF THE COMPOST SHOULD BE 1/2" TO 3/4". COMPOST SHOULD BE PLACED EVENLY AND SHOULD PROVIDE 100% SOIL COVERAGE. NO SOIL SHOULD BE VISIBLE.
- POLYMERIC AND GUM TACKIFIERS MIXED AND APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS MAY BE USED TO TACK MULCH. AVOID APPLICATION DURING RAIN AND ON WINDY DAYS. A 24-HOUR CURING PERIOD AND A SOIL TEMPERATURE HIGHER THAN 45°F ARE TYPICALLY REQUIRED. APPLICATION SHOULD GENERALLY BE HEAVIEST AT EDGES OF SEEDING AREAS AND AT CRESTS OF RIDGES AND BANKS TO PREVENT LOSS BY WIND. THE REMAINDER OF THE AREA SHOULD HAVE BINDER APPLIED UNIFORMLY. BINDERS MAY BE APPLIED AFTER MULCH IS SPREAD OR SPRAYED INTO THE MULCH AS IT IS BEING BLOWN ONTO THE SOIL. APPLYING STRAW AND BINDER TOGETHER IS GENERALLY MORE EFFECTIVE.
- SYNTHETIC BINDERS, OR CHEMICAL BINDERS, MAY BE USED AS RECOMMENDED BY THE MANUFACTURER TO ANCHOR MULCH PROVIDED SUFFICIENT DOCUMENTATION IS PROVIDED TO SHOW THEY ARE NON-TOXIC TO NATIVE PLANT AND ANIMAL SPECIES.
- MULCH ON SLOPES OF 6% OR STEEPER SHOULD BE HELD IN PLACE WITH NETTING, LIGHTWEIGHT PLASTIC, FIBER, OR PAPER NETS MAY BE STAPLED OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- SHREDDED PAPER HYDROMULCH SHOULD NOT BE USED ON SLOPES STEEPER THAN 6%. WOOD FIBER HYDROMULCH MAY BE APPLIED ON STEEPER SLOPES PROVIDED A TACKIFIER IS USED. THE APPLICATION RATE FOR ANY HYDROMULCH SHOULD BE 2,000 LB/ACRE AT A MINIMUM.
- LIME, FERTILIZER, SEED, AND MULCH DISTURBED AREAS PER THE EROSION AND SEDIMENT CONTROL PLANS, IN AREAS OF STEEP SLOPES OR OBVIOUS AREAS WHERE POTENTIAL EROSION MAY OCCUR, AN EROSION CONTROL MAT OR FLEXIBLE GROWTH MEDIUM (FGM) SHALL BE USED. FGM SHALL BE USED, FGM SHALL BE USED PER MANUFACTURER SPECIFICATIONS.
- ONCE A SECTION OF THE ALIGNMENT HAS BEEN STABILIZED, NO CONSTRUCTION TRAFFIC SHALL OCCUR TO REMOVE ANY BMPS UNTIL THE SECTION HAS ACHIEVED 80% PERENNIAL VEGETATIVE COVER. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM 80% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NONVEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS.

STORMWATER POLLUTION PREVENTION PLAN NOTES:

- THE CONTRACTOR SHALL PROVIDE A QUALIFIED INSPECTOR TO INSPECT THE PROJECT AT THE END OF EACH WORK WEEK AND PROVIDE A REPORT AT LEAST ONCE PER WEEK.
- EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL MANUAL, ONONDAGA COUNTY HEALTH DEPARTMENT, AND THE TOWN OF SKANEATELES REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE BEST MANAGEMENT PRACTICES (BMPs) UNTIL GROUND COVER IS ESTABLISHED.
- REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANAGER. REPLACE TOPSOIL TO A MINIMUM 4" DEPTH. ALL DISTURBED AREAS TO BE HYDROSEED AS DIRECTED BY THE CONSTRUCTION MANAGER TO PROMOTE VEGETATION AS SOON AS PRACTICABLE.
- IF THE SEASONS PROHIBIT TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE "STANDARDS", NETTING OR LIQUID MULCH BINDER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE 80% UNIFORM VEGETATION HAS BEEN ACHIEVED.
- ALL EROSION CONTROL MEASURES ARE TO BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE AND SHALL BE REPLACED WHEN THEY HAVE REACHED THE DESIGN LIFE INDICATED IN THE NYS GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL DESIGN MANUAL OR EVERY THREE MONTHS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL TO ALL DISTURBED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
- THE CONTRACTOR SHALL DESIGNATE A MEMBER OF HIS/HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL AND EROSION CONTROL STRUCTURES THROUGHOUT CONSTRUCTION.
- ALL DISTURBED AREAS SHALL BE FINISH GRADED TO PROMOTE VEGETATION ON ALL EXPOSED AREAS AS SOON AS PRACTICABLE. STABILIZATION PRACTICES (TEMPORARY/PERMANENT SEEDING, MULCHING, GEOTEXTILES, ETC.) MUST BE IMPLEMENTED WITHIN SEVEN (7) DAYS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND NOT EXPECTED TO RESUME WITHIN FOURTEEN (14) DAYS.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. ALL CONSTRUCTION DEBRIS AND SEDIMENT SPOILS, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
- DUST SHALL BE CONTROLLED BY WATERING.
- ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
- EROSION CONTROL MEASURES SHOULD BE RELOCATED INWARD AS PERIMETER SLOPE CONSTRUCTION PROGRESSES AND RECONSTRUCTED TO NYS STANDARDS & SPECIFICATION AT THE END OF EACH DAY.
- PERMETER AREAS SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH PROGRESSIVELY AT MINIMUM AT THE END OF EACH WEEK WITH 100% PERENNIAL RYEGRASS MIX AT A RATE OF 2-4 LBS PER 1000 SF AND MULCH 90-100 LBS PER 1000 SF OF WEED FREE STRAW.
- SLOPE TRACKING SHALL BE IMPLEMENTED ON ALL SLOPE 1 ON 3 OR GREATER AT THE END OF EACH WORK DAY AND PRIOR TO FINAL SLOPE GRADING AND STABILIZATION.

TABLE 1. SKANEATELES SOLAR FARM: WETLAND IMPACTS

WETLAND TYPE	JURISDICTION	WETLAND AREA (SQ. FT./AC)	AREA OF IMPACT (SQ. FT./AC)	
			TEMPORARY	PERMANENT
BERGMANN DELINEATED WETLAND 1 - PEM	USACE	2,289 SQ. FT./ 0.05 AC	84 SQ. FT./ 0.0019 AC	0 SQ. FT./ 0 AC
BERGMANN DELINEATED WETLAND 2 - PFO	USACE	72,750 SQ. FT./ 1.67 AC	0 SQ. FT./ 0 AC	0 SQ. FT./ 0 AC
BERGMANN DELINEATED WETLAND 3 - PEM	USACE	1,333 SQ. FT./ 0.03 AC	0 SQ. FT./ 0 AC	0 SQ. FT./ 0 AC
BERGMANN DELINEATED WETLAND 4 - PEM	USACE	6,114 SQ. FT./ 0.14 AC	0 SQ. FT./ 0 AC	0 SQ. FT./ 0 AC
TOTAL	---	82,486 SQ. FT./ 1.89 AC	84 SQ. FT./ 0.0019 AC	0 SQ. FT./ 0 AC

- NOTES:**
- PFO - PALUSTRINE FORESTED
 - PEM - PALUSTRINE EMERGENT

TABLE 2. SKANEATELES SOLAR FARM: STREAM 1 IMPACTS

JURISDICTION	LINEAR FEET OF IMPACT (FT.)		AREA OF IMPACT (SQ. FT.)	
	TEMPORARY	PERMANENT	TEMPORARY	PERMANENT
USACE	0	0	0	0

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TJA-NY-SKANEATELES SOLAR FARM, LLC.

SKANEATELES SOLAR FARM
740 SHELDON ROAD
SKANEATELES, NY 13152

Date Revised	Description

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Project Manager ECR	Discipline Lead ECR
Designer JL	Reviewer ECR
Date Issued 08/31/2022	Project Number 18237.00

Sheet Name

GENERAL NOTES
Drawing Number
C010
2 of 18

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VIEW-SHED ANALYSIS MAP
 SCALE: 1"=3000'

NOTES

- PROPERTY IS KNOWN AS TAX MAP ID # 023-05-01.1 & 024-01-34.0, THE TOWN OF SKANEATELES, ONONDAGA COUNTY, NEW YORK.
- LOT AREA = 2,356,161 S.F. OR 54.09 AC. & 2,203,265 S.F. OR 50.58 AC.
- NO CHANGES IN STREET RIGHT OF WAY LINES EITHER COMPLETED OR PROPOSED KNOWN TO THIS SURVEYOR. NO OBSERVABLE EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS.
- VERTICAL DATUM = NAVD88.
- LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARK-OUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES.
- THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. THIS PROPERTY MAY BE SUBJECT TO RESTRICTIONS, COVENANTS AND/OR EASEMENTS, WRITTEN OR IMPLIED.
- THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THIS SURVEY.
- TOPOGRAPHIC INFORMATION SHOWN HEREON TAKEN FROM GROUND SURVEY PERFORMED BY BERGMANN ON JUNE 15-16, 2022.

LEGEND:

	PROPERTY LINE
	EDGE OF PAVEMENT/GRAVEL
	ROAD CENTERLINE
	ADJ. PROPERTY LINE
	RIGHT-OF-WAY LINE
	EASEMENT LINE
	CONTOUR - MAJOR
	CONTOUR - MINOR
	TREELINE
	OVERHEAD UTILITY WIRE
	DELINEATED STREAM
	100 FT STREAM OR WETLAND BUFFER
	STORM PIPE
	UNDERGROUND GAS LINE
	UNDERGROUND TELEPHONE LINE
	EDGE OF FIELD ROAD
	EDGE OF MOW LINE
	SWALE
	FENCE LINE
	DELINEATED WETLAND - PEM (PALUSTRINE EMERGENT)
	DELINEATED WETLAND - PFO (PALUSTRINE FOREST)
	ONE POST SIGN
	BOLLARD/POST
	REBAR FOUND
	PIPE FOUND
	CONTROL POINT
	GAS METER
	UTILITY POLE
	WATER VALVE
	DECIDUOUS TREE
	INVERT OR INVERT WITH END SECTION
	TELEPHONE JUNCTION BOX



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 SKANEATELES, NY 13152

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Project Manager BCR	Discipline Lead BCR
Designer JL	Reviewer BCR
Date Issued 08/31/2022	Project Number 16237.00

Sheet Name

EXISTING CONDITIONS PLAN

Drawing Number

X100

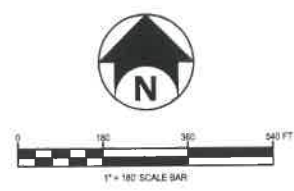
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10/31/2022 9:41 AM



SITE PLAN DATA TABLE		
SITE IS LOCATED IN THE "RR" RURAL RESIDENTIAL ZONING DISTRICT.		
PROPOSED USE: SOLAR		
PARCEL 023-05-01.1 & 024-01-34.2		
TOWN OF SKANEATELES, COUNTY OF ONONDAGA		
STATE OF NEW YORK		
APPLICANT:	OWNER(S) OF RECORD:	
TJA-NY-SKANEATELES SOLAR FARM, LLC.	ELIZABETH SARGENT, TRUSTEE OF GORDON FAMILY BENEFIT TRUST	
150 JOHN VERETTE BOULEVARD	NEW BEDFORD, MA 02745	
(519) 556-2344		
PLANS PREPARED BY:		
BERGMANN		
2 WINNERS CIRCLE, SUITE 102		
ALBANY, NY 12205		
(518) 556-3631		
DESCRIPTION	REQUIRED	PROPOSED (023-05-01.1 & 024-01-34.2)
MIN. LOT SIZE	2 AC	104.876 AC.
MIN. SIDE YARD SETBACK	60 FT	100.56 FT
MIN. FRONT YARD SETBACK	60 FT	768.06 FT
MIN. REAR YARD SETBACK	60 FT	62.06 FT
MAX. PANEL HEIGHT	15 FT	<15 FT
MAX. LOT COVERAGE (EXCLUDING SOLAR PANELS)	20%	1.07%
MAX. LOT COVERAGE (SOLAR PANELS)	25%	20.13%

ELECTRICAL DATA CHART	
SYSTEM SIZE	4,350 MW AC/5,065 MW DC
MODULE TYPE	ZINSHINE SOLAR Z3M7-SHLD0144-60M
MODULE QUANTITY	11,232
MODULE WATTAGE	540 W @ STC/26% FACIAL
INVERTER TYPE	SUNNY 1P PEAK3 1504US
INVERTER QUANTITY	29

- LEGEND:**
- PROPOSED SOLAR PANELS
 - PROPOSED UNDERGROUND ELECTRIC
 - PROPOSED OVERHEAD ELECTRIC
 - PROPOSED PERIMETER FENCE
 - PROPOSED LAYDOWN/STAGING AREA
 - PROPOSED LIMITED USE PERVIOUS GRAVEL DRIVEWAY
 - DELINEATED WETLAND - PEM (PALUSTRINE EMERGENT)
 - DELINEATED WETLAND - PFO (PALUSTRINE FOREST)
 - DELINEATED STREAM
 - 100 FT STREAM OR WETLAND BUFFER
 - SETBACK LINE
 - PROPOSED TREELINE
 - EXISTING TREELINE
 - PROPOSED DIVERSION SWALE
 - PROPOSED UTILITY POLE
 - PROPOSED LANDSCAPE SCREENING



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TJA-NY-SKANEATELES SOLAR FARM, LLC.

SKANEATELES SOLAR FARM
740 SHELDON ROAD
SKANEATELES, NY 13152

Date Revised	Description

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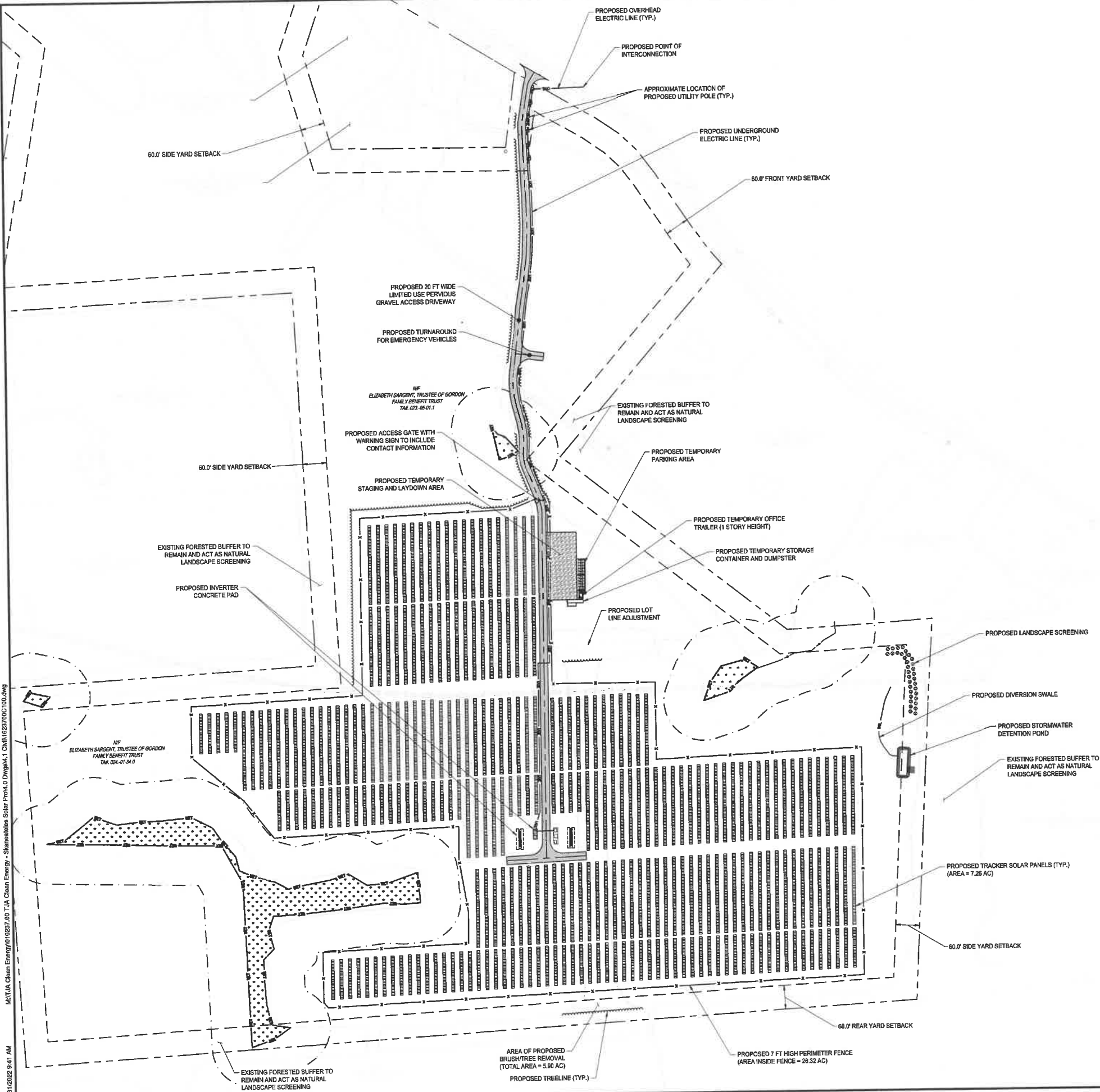
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Project Manager	Discipline Lead
ECR	ECR
Designer	Reviewer
JL	ECR
Date Issued	Project Number
08/31/2022	18237.00
Sheet Name	

OVERALL SITE PLAN

Drawing Number
C100
4 of 18

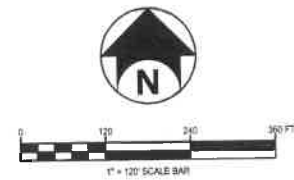
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SITE PLAN DATA TABLE		
SITE IS LOCATED IN THE TYP RURAL RESIDENTIAL ZONING DISTRICT.		
PROPOSED USE: SOLAR		
PARCEL 023-05-01.1 & 024-01-34.0		
TOWN OF SKANEATELES, COUNTY OF ONONDAGA		
STATE OF NEW YORK		
APPLICANT:		OWNER(S) OF RECORD:
TJA-NY-SKANEATELES SOLAR FARM, LLC.		ELIZABETH SARGENT, TRUSTEE OF
150 JOHN VERTENTE BOULEVARD		GORDON FAMILY BENEFIT TRUST
NEW BEDFORD, MA 02745		
(617) 558-2344		
PLANS PREPARED BY:		
BERGMANN		
2 WINNERS CIRCLE, SUITE 102		
ALBANY, NY 12205		
(518) 556-3531		
DESCRIPTION	REQUIRED	PROPOSED (023-05-01.1 & 024-01-34.0)
MIN. LOT SIZE	2 AC	104.67± AC
MIN. SIDE YARD SETBACK	10 FT	100.5± FT
MIN. FRONT YARD SETBACK	50 FT	788.0± FT
MIN. REAR YARD SETBACK	50 FT	82.0± FT
MAX. PANEL HEIGHT	15 FT	<15 FT
MAX. LOT COVERAGE (EXCLUDING SOLAR PANELS)	25%	1.07%
MAX. LOT COVERAGE (SOLAR PANELS)	25%	20.13%

ELECTRICAL DATA CHART	
SYSTEM SIZE	4,350 MW AC/6,065 MW DC
MODULE TYPE	ZHSHINE SOLAR ZSM7-SH4.DD144-60MM
MODULE QUANTITY	11,232
MODULE WATTAGE	540 W @ STC/BIFACIAL
INVERTER TYPE	SUNNY HP PEAK3 150-US
INVERTER QUANTITY	28

- LEGEND:**
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JL	ECR
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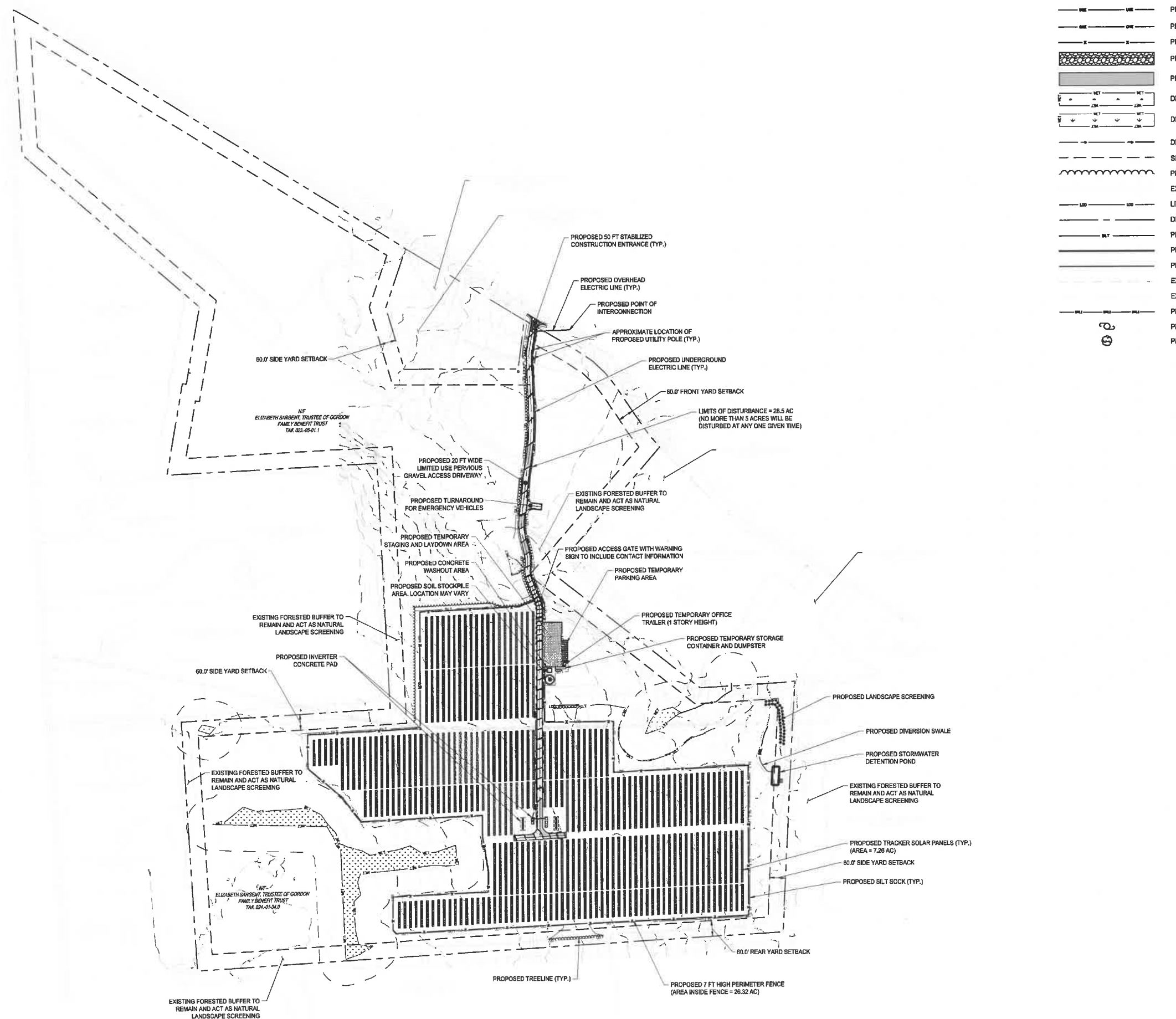
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SITE PLAN

Drawing Number

C101

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LEGEND:

	PROPOSED SOLAR PANELS
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED OVERHEAD ELECTRIC
	PROPOSED PERIMETER FENCE
	PROPOSED LAYDOWN/STAGING AREA
	PROPOSED LIMITED USE PERVIOUS GRAVEL DRIVEWAY
	DELINEATED WETLAND - PEM (PALUSTRINE EMERGENT)
	DELINEATED WETLAND - PFO (PALUSTRINE FOREST)
	DELINEATED STREAM
	SETBACK LINE
	PROPOSED TREELINE
	EXISTING TREELINE
	LIMIT OF DISTURBANCE
	DRIVEWAY SECTION ALIGNMENT
	PROPOSED SILT SOCK
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED DIVERSION SWALE
	PROPOSED UTILITY POLE
	PROPOSED LANDSCAPE SCREENING

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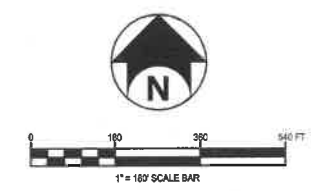
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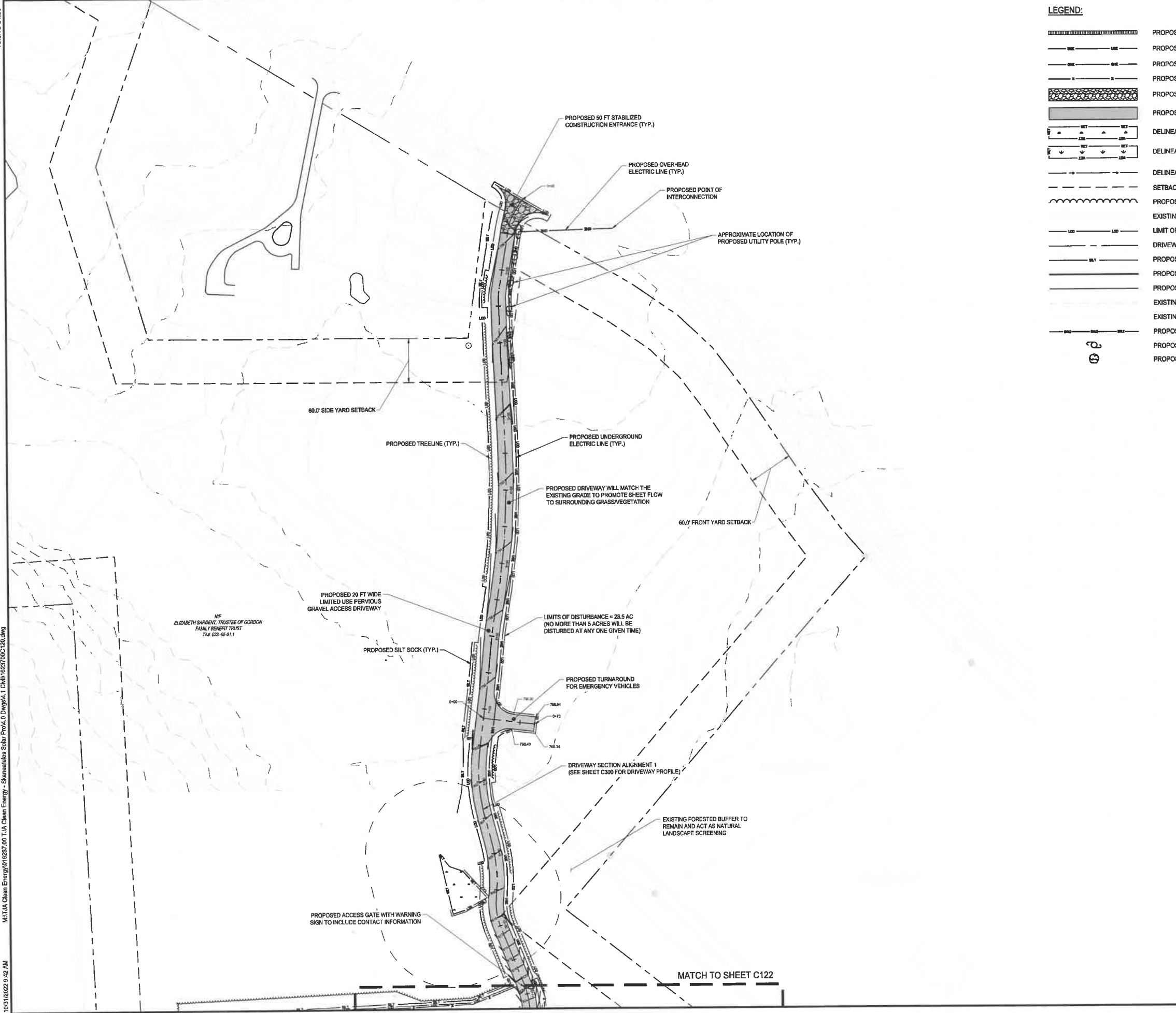
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Sheet Name
**OVERALL GRADING
 & EROSION
 CONTROL PLAN**

Drawing Number
C120

6 of 18

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LEGEND:

	PROPOSED SOLAR PANELS
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED OVERHEAD ELECTRIC
	PROPOSED PERIMETER FENCE
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	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
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	PROPOSED LANDSCAPE SCREENING



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 740 SHELDON ROAD
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Date Revised	Description

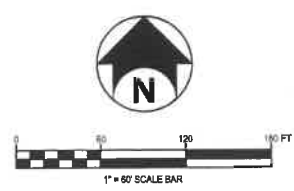
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Designer JL	Reviewer ECR
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**GRADING & EROSION
 CONTROL PLAN**

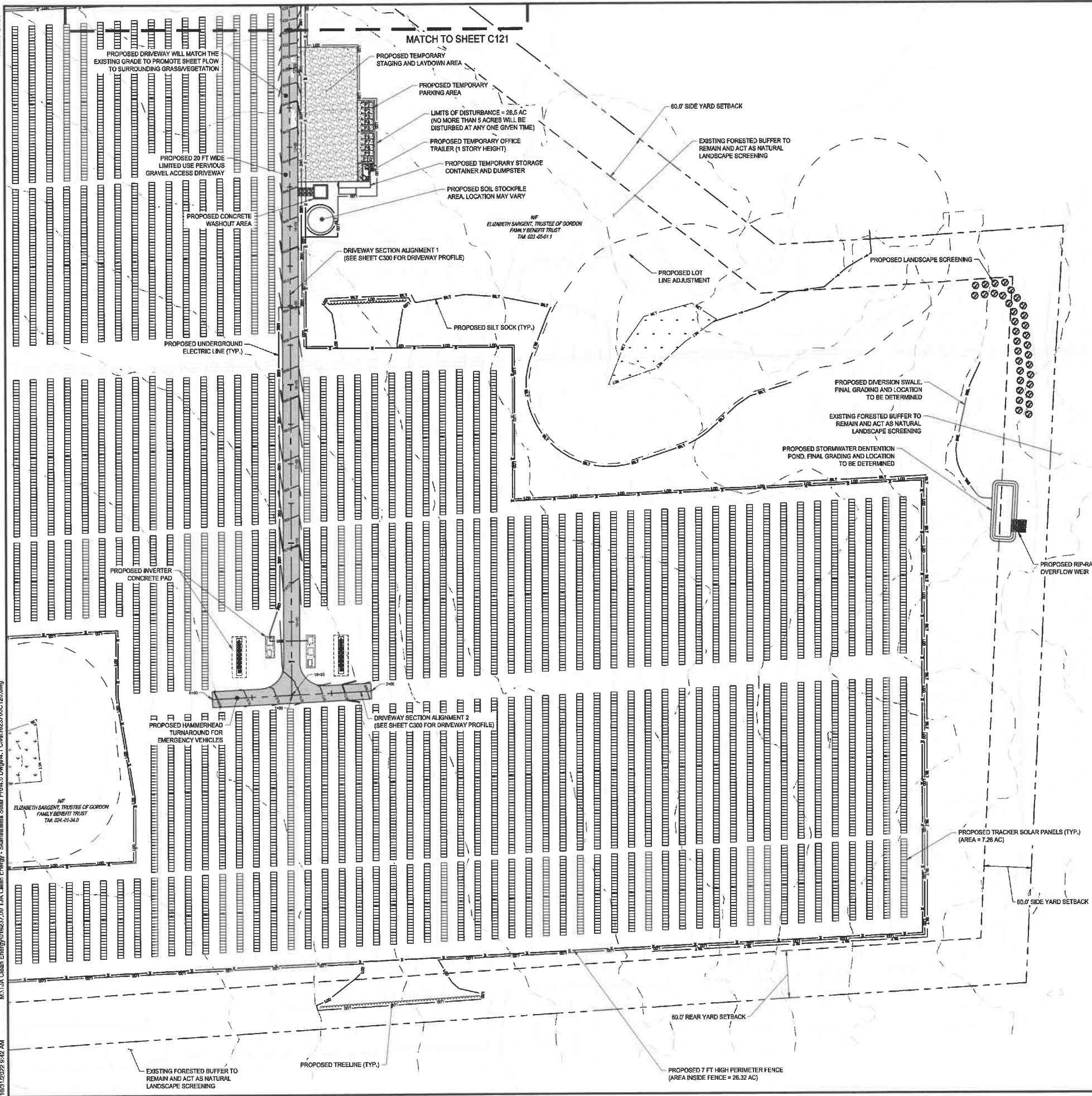
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C121



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MATCH TO SHEET C122

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- LEGEND:**
- PROPOSED SOLAR PANELS
 - PROPOSED UNDERGROUND ELECTRIC
 - PROPOSED OVERHEAD ELECTRIC
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 - EXISTING MINOR CONTOUR
 - PROPOSED DIVERSION SWALE
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 - PROPOSED LANDSCAPE SCREENING

BERGMANN
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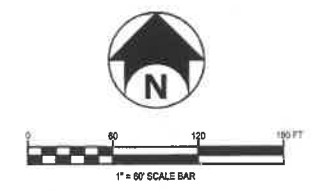
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Sheet Name	

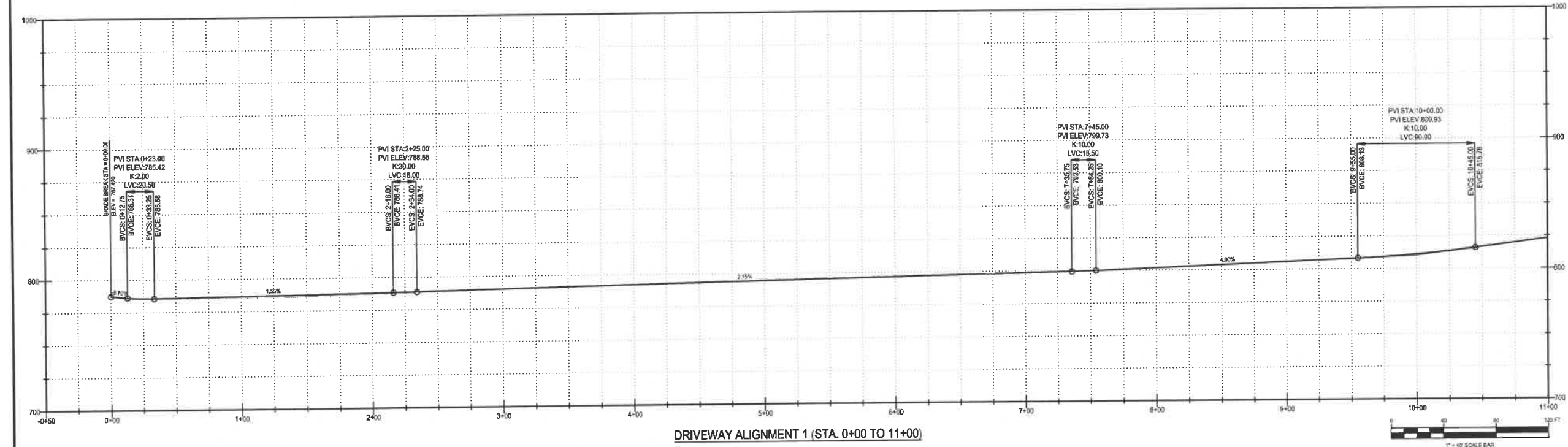


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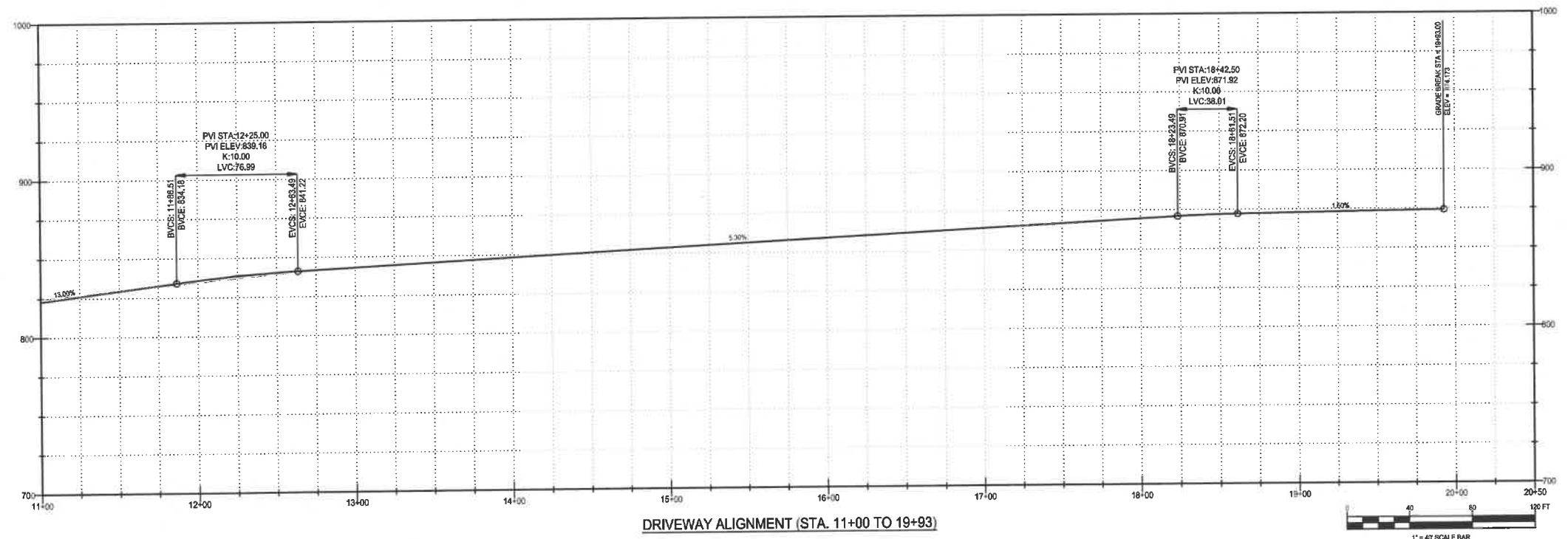
**GRADING & EROSION
 CONTROL PLAN**

Drawing Number
C122

ARCH D 2636



DRIVEWAY ALIGNMENT 1 (STA. 0+00 TO 11+00)



DRIVEWAY ALIGNMENT (STA. 11+00 TO 19+93)



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Designer JL	Reviewer ECR
Date Issued 06/31/2022	Project Number 18237.00

Sheet Name

DRIVEWAY PROFILE

Drawing Number

C300

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SOLAR FARM, LLC.**

**SKANEATELES
SOLAR FARM**

740 SHELDON ROAD
SKANEATELES, NY 13152

Date Revised Description

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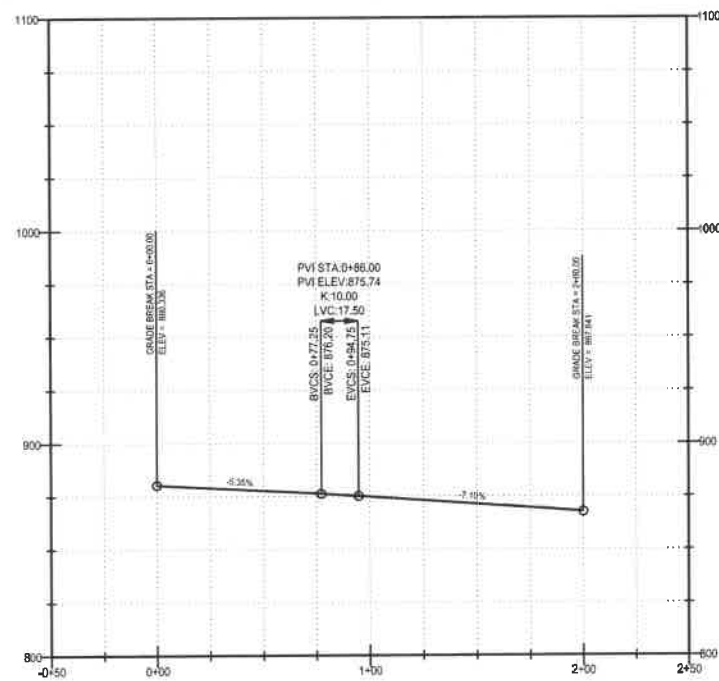
Project Manager	Discipline Lead
EDR	EDR
Designer	Reviewer
JL	EDR
Date Issued	Project Number
08/31/2022	16237.00

Sheet Name

DRIVEWAY PROFILE

Drawing Number

C301

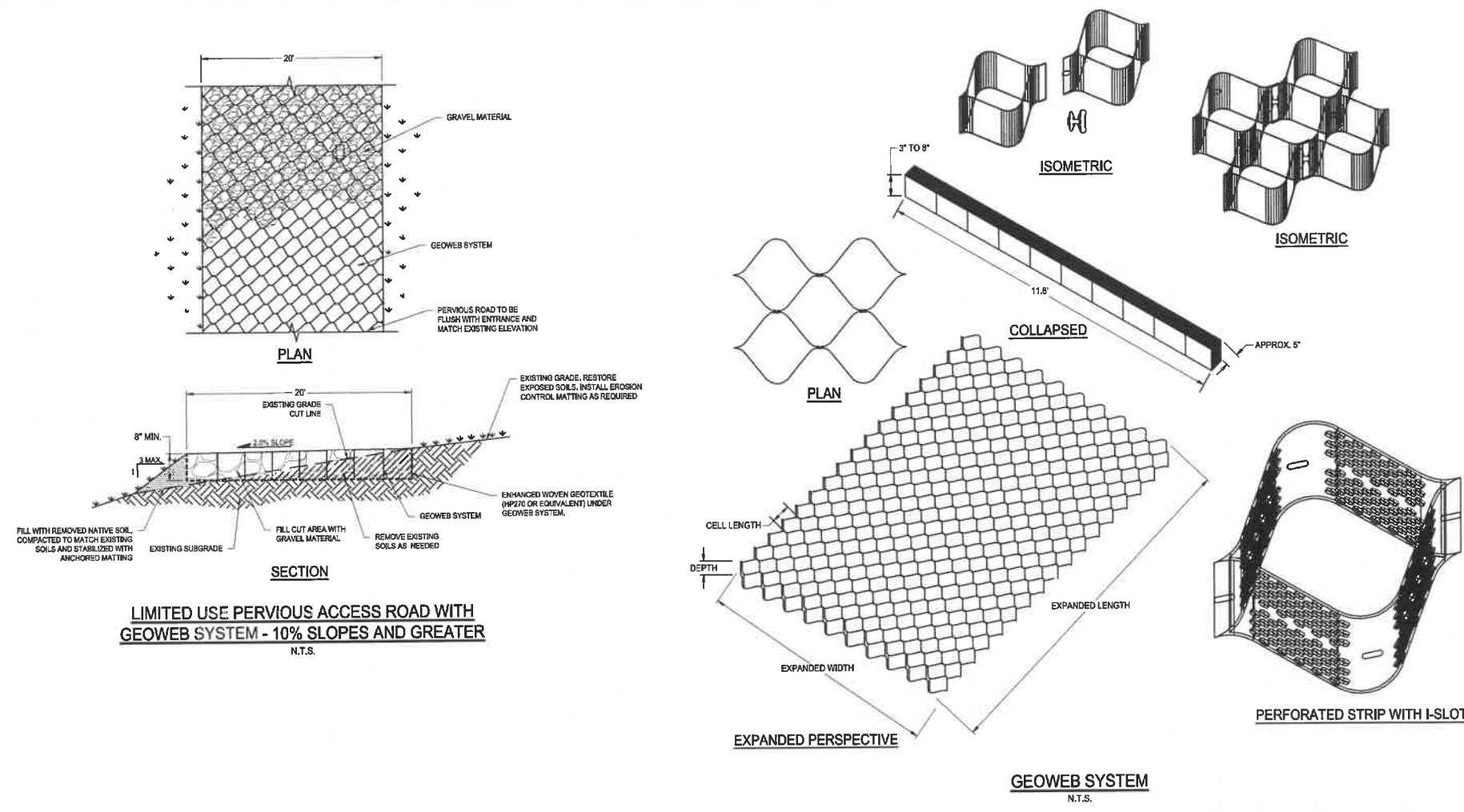


DRIVEWAY ALIGNMENT 2 (STA. 0+00 TO 2+00)



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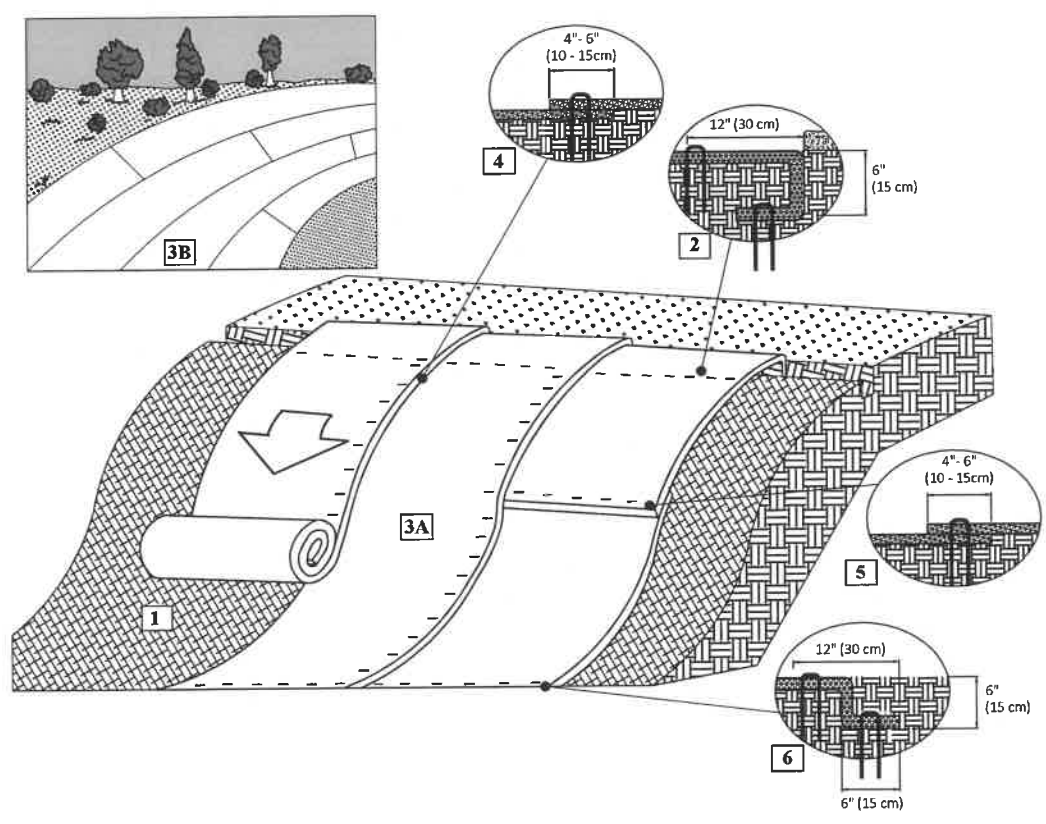
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LIMITED USE PERVIOUS ACCESS ROAD WITH GEOWEB SYSTEM - 10% SLOPES AND GREATER
N.T.S.

GEOWEB SYSTEM
N.T.S.

- GENERAL NOTES:**
- USE OF THIS DETAIL/CRITERION IS LIMITED TO ACCESS ROADS USED ON AN OCCASIONAL BASIS ONLY (I.E. PROVIDE ACCESS FOR MOWING, EQUIPMENT REPAIR OR MAINTENANCE).
 - LIMITED USE PERVIOUS ACCESS ROAD IS LIMITED TO LOW IMPACT IRRREGULAR MAINTENANCE ACCESS ASSOCIATED WITH RENEWABLE ENERGY PROJECTS IN NEW YORK STATE.
 - REMOVE STUMPS, ROCKS AND DEBRIS AS NECESSARY. FILL VOIDS TO MATCH EXISTING NATIVE SOILS AND COMPACTION LEVEL.
 - REMOVED TOPSOIL MAY BE SPREAD IN ADJACENT AREAS AS DIRECTED BY THE PROJECT ENGINEER. COMPACT TO THE DEGREE OF THE NATIVE IN SITU SOIL. DO NOT PLACE IN AN AREA THAT IMPEDES STORM WATER DRAINAGE.
 - GRADE ROADWAY, WHERE NECESSARY, TO NATIVE SOILS AND DESIRED ELEVATION. MINOR GRADING FOR CROSS SLOPE CUT AND FILL MAY BE REQUIRED.
 - REMOVE REUSE SOILS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN AREA THAT IMPEDES STORM WATER DRAINAGE.
 - ROADWAY WIDTH TO BE DETERMINED BY CLIENT.
 - THE LIMITED USE PERVIOUS ACCESS ROAD CROSS SLOPE SHALL BE 2.0% IN MOST CASES AND SHOULD NOT EXCEED 6%. THE LONGITUDINAL SLOPE OF THE ACCESS DRIVE SHOULD NOT EXCEED 15%.
 - LIMITED USE PERVIOUS ACCESS ROAD IS NOT INTENDED TO BE UTILIZED FOR CONSTRUCTION WHICH MAY SUBJECT THE ACCESS TO SETTLEMENT 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.
 - 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 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. THE LIMITED USE PERVIOUS ACCESS ROAD SHALL NOT BE CONSTRUCTED OR USED UNTIL ALL AREAS SUBJECT TO RUNOFF TO THE PERVIOUS ACCESS HAVE ACHIEVED FINAL STABILIZATION.
 - 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.
 - THE DRAINAGE DITCH IS OFFERED IN THE DETAIL FOR CIRCUMSTANCES WHEN CONCENTRATED FLOW COULD NOT BE AVOIDED. THE INTENTION OF THE 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 CONTROL 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 DISCHARGE 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.
 - 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.
 - 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.
- GEOWEB MATERIAL NOTES:**
- THE GEOWEB, OR COMPARABLE PRODUCT, IS SUGGESTED FOR USE ON ROAD PROFILES EXCEEDING 10%. THE GEOWEB PRODUCT IS INTENDED TO LIMIT LIFTING STONE MATERIAL DURING USE.
 - INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - WHERE REQUIRED, A NATIVE SOIL WEDGE SHALL BE PLACED TO ACCOMMODATE ROAD CROSS SLOPE OF 1.5%. NATIVE SOIL SHALL BE COMPACTED TO MATCH EXISTING SOIL CONDITIONS.
 - GRAVEL FILL MATERIAL SHALL CONSIST OF 1/4" CLEAN, DRAINABLE, SHARP-ANGLED CRUSHED STONE OF UNIFORM QUALITY, MEETING THE SPECIFICATIONS OF NYSDOT ITEM 705-02, SIZE DESIGNATION 3/8 OF TABLE 705.4. STONE MAY BE PLACED IN FRONT OF AND SPREAD WITH A TRACKED VEHICLE. GRAVEL SHALL NOT BE COMPACTED.
 - GEOWEB SYSTEM SHALL BE PRESTO GEOSYSTEM GEOWEB OR APPROVED EQUAL. GEOWEB SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED HAUL ROAD SLOPES.
 - LIMITED USE PERVIOUS ACCESS ROAD SHALL BE FLUSH WITH CONNECTIVE. ALIGN THE ISLOTS FOR INTERLEAF AND END TO END CONNECTIONS. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATTRA KEYS AT THE INTERLEAF AND END TO END CONNECTIONS. REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER INSTALLATION, TYING AN CONNECTIONS.
- BASIS OF DESIGN: PRESTO GEOSYSTEMS GEOWEB, 670 NORTH PERKINS STREET, APPLETON, WI, 800-546-3424 OR 920-738-1222. INFO@PRESTOGEOWEB.COM. WWW.PRESTOGEOWEB.COM.**
- WOVEN GEOTEXTILE MATERIAL NOTES:**
- 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 FROM AN ENVIRONMENTAL SCIENTIST, SOIL SCIENTIST OR GEOTECHNICAL DATA.
 - THE CONCERN OF 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 OPERATION AND MAINTENANCE.
- BASIS OF DESIGN: TENCATE MIRAFI RS-SERIES WOVEN GEOSYNTHETICS, 365 SOUTH HOLLAND DRIVE, PENDERGRASS, GA, 800-685-9590 OR 706-983-2226. WWW.MIRAFI.COM**

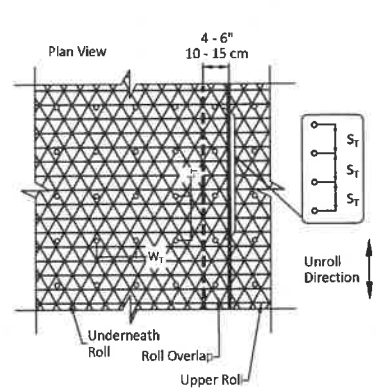


EROSION CONTROL BLANKET
N.T.S.

Instructions

- 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.
- Begin at the top of the slope by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench. Anchor the RECPs with a row of staples/stakes/pins spaced at S_T apart in the trench after stapling. Backfill and compact the trench after stapling and fold the roll over downslope. Secure RECPs over compacted soil with a row of staples/stakes/pins spaced at S_T apart across the width of the RECPs.
- Roll the RECPs (A) down or (B) horizontally across the slope. 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. RollMax RECPs and ECBs should utilize Staple Pattern C, TRMs and VMax materials should utilize Staple Pattern D.
- The edges of parallel RECPs must be stapled with approximately 4" - 6" (10 - 15 cm) overlap.
- Consecutive RECPs spliced down the slope must overlapped with the upstream mat atop the downstream mat (shingle style). The overlap should be 4" - 6" (10 - 15 cm).
- At the terminal end, secure each mat across the width with a row of staples/stakes/pins spaced at S_T. If exposed to flow, foot traffic, wind uplift or other disruption, trench the terminal end in as shown in detail.
- 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 be 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

Dimension	Staple Pattern	
	C	D
W _T	30" (75 cm)	24" (60 cm)
L _T	30" (75 cm)	20" (50 cm)
S _T	18" (45 cm)	18" (45 cm)
Nominal Frequency	1.7 / SY	3.0 / SY
Application	ECB (Degradable)	TRM (Permanent)

*Note: Staple Pattern A and B used prior to 8/2019 have been discontinued.

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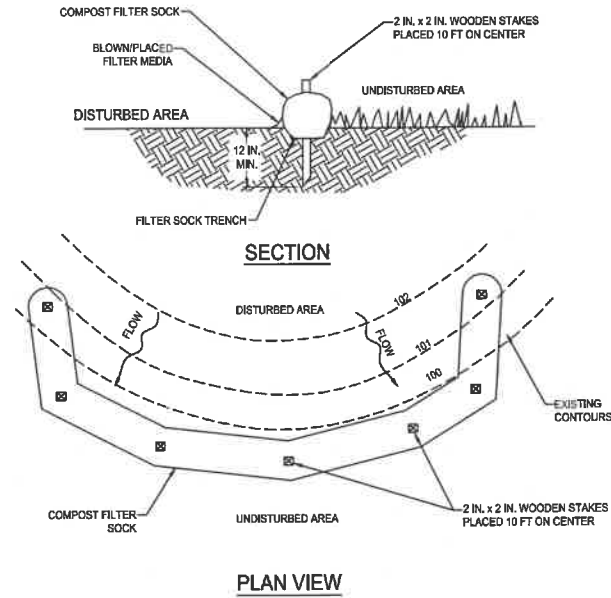
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JL	ECR
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DETAILS I

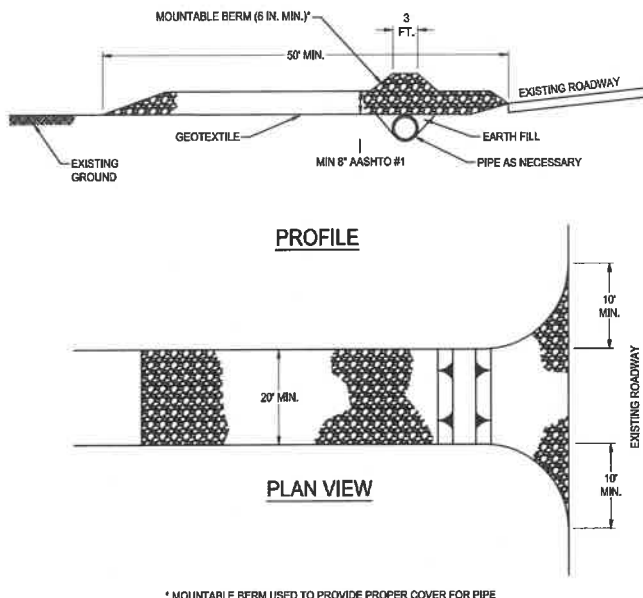
Drawing Number
C500



NOTES:

- SOCK FABRIC AND COMPOST SHALL MEET ALL STATE STANDARDS.
- COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 6 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
- COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED, THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

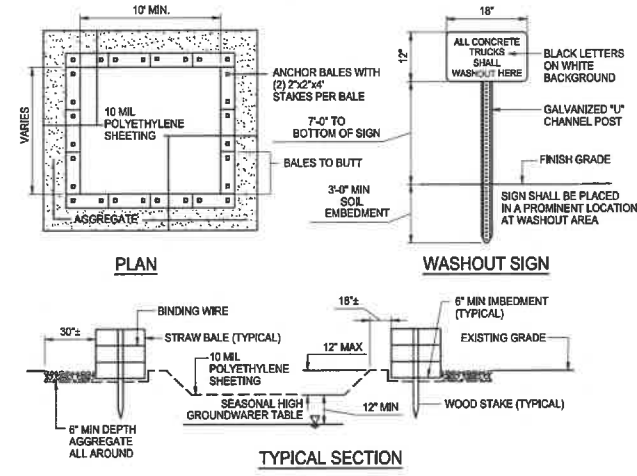
12" COMPOST FILTER SOCK
N.T.S.



NOTES:

- REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
- RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
- MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
- MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

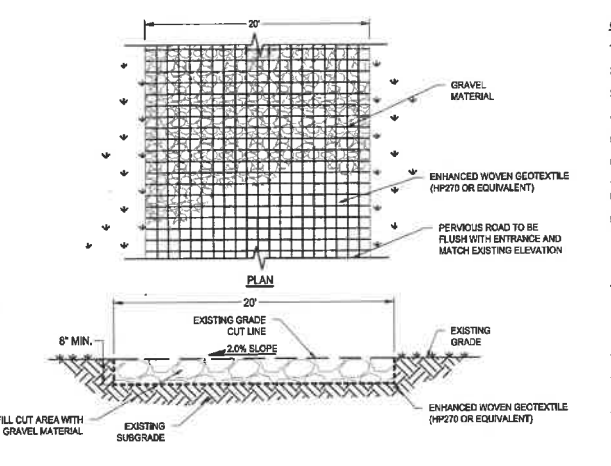
STABILIZED CONSTRUCTION ENTRANCE
N.T.S.



NOTES:

- CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
- CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
- WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
- WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
- ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
- AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

CONCRETE WASHOUT AREA
N.T.S.



WOVEN GEOTEXTILE MATERIAL NOTES:

- 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 LOWLYING AREAS WITH HYDROLOGIC SOILS GROUP (HSG) OF C OR D OR AS SPECIFIED FROM AN ENVIRONMENTAL SCIENTIST, SOIL SCIENTIST OR GEOTECHNICAL DATA.
- THE CONCERN OF 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 OPERATION AND MAINTENANCE.
- REFER TO SHEET C04 FOR HP270 ENHANCED WOVEN GEOTEXTILE SPECIFICATION DETAIL.

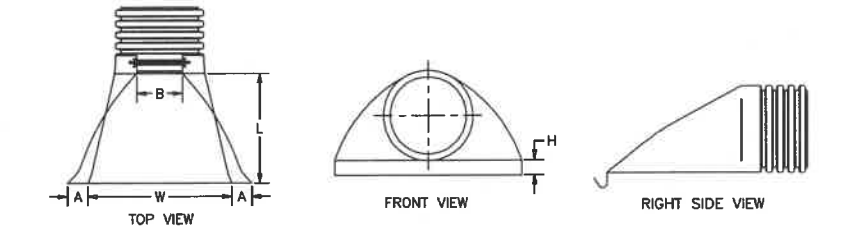
BASES OF DESIGN: TENCATE MIRA118S SERIES WOVEN GEOSYNTHETICS; 365 SOUTH HOLLAND DRIVE, FENDERGRASS, GA; 800-655-9595 OR 706-833-2226; WWW.MIRA118.COM

LIMITED USE PERVIOUS ACCESS ROAD - 0% TO 10% SLOPES
N.T.S.

GENERAL NOTES:

- USE OF THIS DETAIL CRITERION IS LIMITED TO ACCESS ROADS USED ON AN OCCASIONAL BASIS ONLY (I.E. PROVIDE ACCESS FOR MOWING, EQUIPMENT REPAIR OR MAINTENANCE).
- LIMITED USE PERVIOUS ACCESS ROAD IS LIMITED TO LOW IMPACT IRREGULAR MAINTENANCE ACCESS ASSOCIATED WITH RENEWABLE ENERGY PROJECTS IN NEW YORK STATE.
- REMOVE STUMPS, ROCKS AND DEBRIS AS NECESSARY, FILL VOIDS TO MATCH EXISTING NATIVE SOILS AND COMPACTION LEVEL.
- REMOVED TOPSOIL MAY BE SPREAD IN ADJACENT AREAS AS DIRECTED BY THE PROJECT ENGINEER, COMPACT TO THE DEGREE OF THE NATIVE IN SITU SOIL. DO NOT PLACE IN AN AREA THAT IMPEDES STORM WATER DRAINAGE.
- GRADE ROADWAY, WHERE NECESSARY, TO NATIVE SOILS AND DESIRED ELEVATION. MINOR GRADING FOR CROSS SLOPE CUT AND FILL MAY BE REQUIRED.
- REMOVE REFUSE SOILS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN AREA THAT IMPEDES STORM WATER DRAINAGE.
- ROADWAY WIDTH TO BE DETERMINED BY CLIENT.
- THE LIMITED USE PERVIOUS ACCESS ROAD CROSS SLOPE SHALL BE 2.0% IN MOST CASES AND SHOULD NOT EXCEED 5%.
- THE LONGITUDINAL SLOPE OF THE ACCESS DRIVE SHOULD NOT EXCEED 15%.
- 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 COMPACTED 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.
- 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 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.
- 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.
- 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.
- THE DRAINAGE DITCH IS OFFERED IN THE DETAIL FOR CIRCUMSTANCES WHEN CONCENTRATED FLOW COULD NOT BE AVOIDED. THE INTENTION OF THE DESIGN IS TO MINIMIZE ALTERNATIVES TO HYDROLOGY, HOWEVER WHEN DEALING WITH 5%+ SLOPES 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 DESIGN 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 DISCHARGE 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.
- IF A ROADSIDE DITCH IS NOT UTILIZED TO CAPTURE RUNOFF FROM THE ACCESS ROAD, THE PERVIOUS ACCESS ROAD WILL HAVE A WELL-ESTABLISHED PERVIOUS VEGETATIVE COVER, WHICH SHALL CONSIST OF UNIFORM VEGETATION (I.E. BUFFERS) 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.
- 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 67-02-001 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.

PIPE DIAMETER, in (mm)						
Diameter in (mm)	12 (300)	15 (375)	18 (450)	24 (600)	30 (750)	36 (900)
A in (mm)	6.5 (165)	6.5 (165)	7.5 (191)	7.5 (191)	7.5 (191)	7.5 (191)
B (max) in (mm)	10.0 (254)	10.0 (254)	15.0 (381)	18.0 (475)	22.0 (559)	25.0 (635)
H in (mm)	6.5 (165)	6.5 (165)	6.5 (165)	6.5 (165)	8.6 (218)	8.6 (218)
L in (mm)	25.0 (635)	25.0 (635)	32.0 (813)	36.0 (914)	58.0 (1473)	58.0 (1473)
W in (mm)	29.0 (737)	28.0 (711)	35.0 (889)	45.0 (1143)	63.0 (1600)	63.0 (1600)



NOTES:

- PRODUCT SHOWN FROM AOS, INC. OF HOPE MEETING ASTM D3550 MINIMUM CELL CLASSIFICATION 213320C
- AN ALTERNATIVE SUPPLIER CAN BE USED AS LONG AS MINIMUM SPECIFICATIONS ABOVE ARE MET
- WHEN PROVIDED, METAL THREADED FASTENING ROD SHALL BE STAINLESS STEEL
- INVERT OF THE PIPE AND THE END SECTION SHALL BE AT THE SAME ELEVATION

TYPICAL FLARED END SECTION SPECIFICATION
N.T.S.

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Date Revised	Description

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Designer JL	Reviewer EDR
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DETAILS II
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C501
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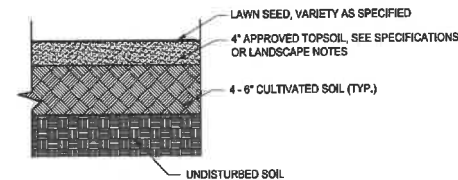
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Designer JL	Reviewer ECR
Date Issued 08/31/2022	Project Number 18237.00

Sheet Name

DETAILS III

Drawing Number

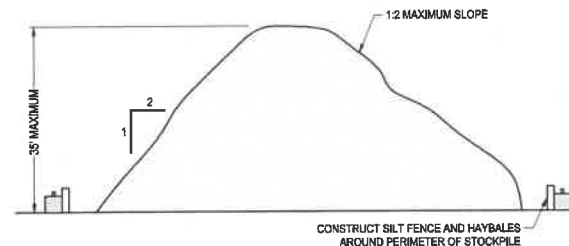
C502



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.

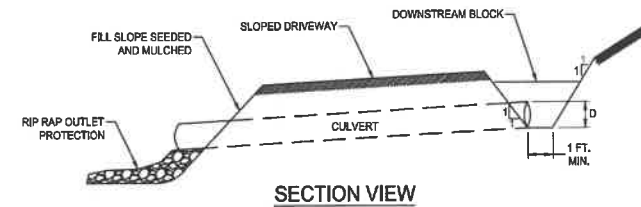
SOIL RESTORATION DETAIL N.T.S.



NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE BE 1V:2H.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH SILT FENCING, THEN STABILIZED WITH VEGETATION OR COVERED.
4. APPLICATION OF SOIL STABILIZATION MEASURES, I.E. SEEDING AND MULCH APPLICATION, SHALL BE COMPLETED WITHIN FOURTEEN (14) DAYS FROM THE DATE SOIL ACTIVITY HAS CEASED.
5. LOCATION OF THE SOIL STOCKPILE TO BE DETERMINED BY CONSTRUCTION MANAGER ON SITE.

STOCKPILE DETAIL N.T.S.

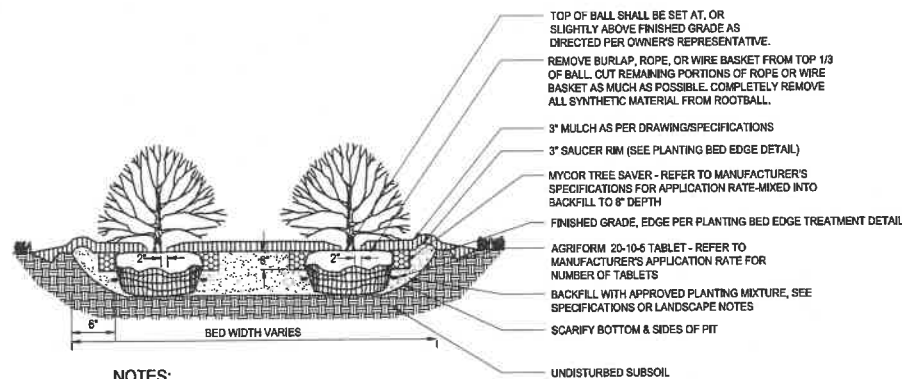


SECTION VIEW

NOTES:

1. CUT AND FILL SLOPES SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF DRIVEWAY GRADING. THESE AREAS SHALL BE BLANKETED WHEREVER THEY ARE LOCATED WITHIN 50 FEET OF A SURFACE WATER OR WITHIN 100 FEET OF AN HIGH QUALITY OR EXCEPTIONAL VALUE SURFACE WATER OR WHERE A SUITABLE VEGETATIVE FILTER STRIP DOES NOT EXIST.
2. A TOP DRESSING COMPOSED OF HARD, DURABLE STONE SHALL BE PROVIDED FOR SOILS HAVING LOW STRENGTH.
3. DRIVEWAY DITCHES SHALL BE PROVIDED WITH ADEQUATE PROTECTIVE LINING WHEREVER RUNOFF CANNOT SHEET FLOW AWAY FROM THE DRIVEWAY.
4. DRIVEWAY SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED DRIVEWAYS, DITCHES, OR CROSS DRAINS SHALL BE REPAIRED IMMEDIATELY.

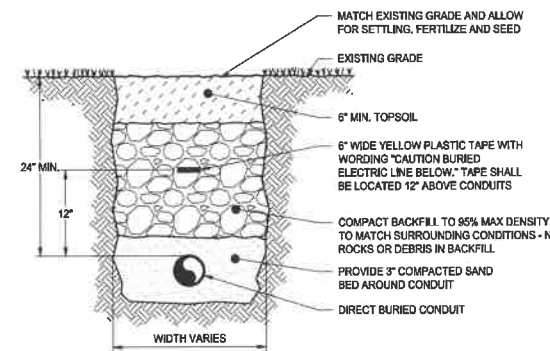
CROSS CULVERT N.T.S.



NOTES:

1. MAINTAIN A 2' MINIMUM RADIUS CLEAR OF MULCH AROUND THE TRUNK.
2. PLANTING BED DEPTH IN LAWN AREAS SHALL BE A MINIMUM OF 18" DEEP AND/OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
3. ALL PLANTING BEDS SHALL BE FREE OF CONSTRUCTION DEBRIS.

SHRUB PLANTING 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.

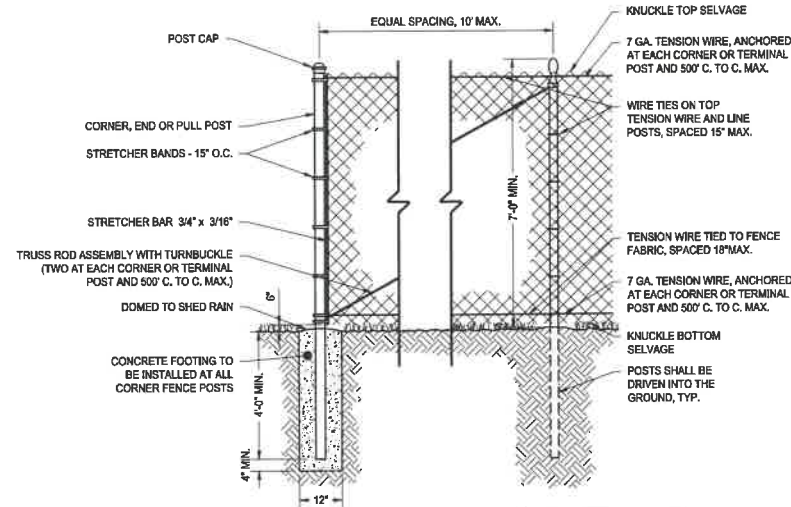
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SOLAR FARM, LLC.**

**SKANEATELES
SOLAR FARM**
740 SHELDON ROAD
SKANEATELES, NY 13152

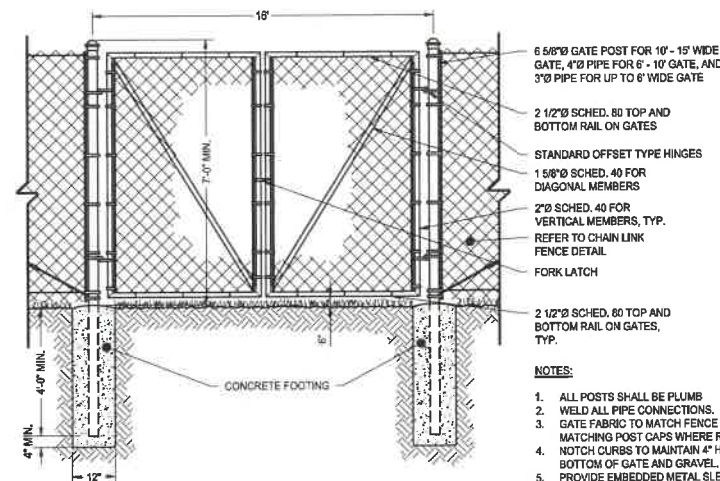
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- NOTES:**
- ALL POSTS SHALL BE PLUMB
 - WIRE TIES SHALL BE PLACED 15" ON CENTER ALONG TOP RAIL AND LINE POSTS.

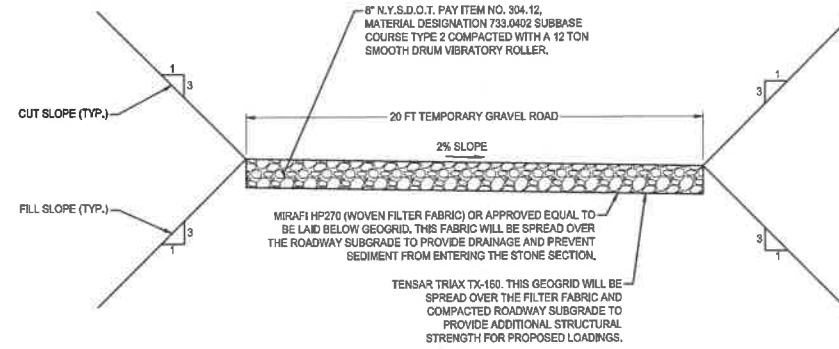
USE	NOM. CD.
LINE POSTS	2 1/2"
CORNER, END, GATE, & PULL POSTS	3"
RAILS	1 5/8"
GATE FRAMES	2"

CHAIN-LINK FENCE DETAIL
N.T.S.



- NOTES:**
- ALL POSTS SHALL BE PLUMB
 - WELD ALL PIPE CONNECTIONS.
 - GATE FABRIC TO MATCH FENCE FABRIC. PROVIDE MATCHING POST CAPS WHERE REQUIRED.
 - NOTCH CURBS TO MAINTAIN 4" HEIGHT BETWEEN BOTTOM OF GATE AND GRAVEL.
 - PROVIDE EMBEDDED METAL SLEEVE AND HOLD OPEN FOR EACH LEAF OF GATE.
 - CONTRACTOR SHALL INSTALL A KNOX BOX NEXT TO GATE FOR FIRE DEPARTMENT ACCESS.
 - POSTS SHALL BE DRIVEN INTO THE GROUND.
 - PROVIDE 6" WILDLIFE GAP BELOW FENCE

CHAIN-LINK FENCE GATE DETAIL
N.T.S.



TEMPORARY GRAVEL CONSTRUCTION ROAD
N.T.S.

CONSTRUCTION NOTES:

- 8" N.Y.S.D.O.T. PAY ITEM NO. 304.12, MATERIAL DESIGNATION 733.0402 SUBBASE COURSE TYPE 2 COMPACTED WITH A 12 TON SMOOTH DRUM VIBRATORY ROLLER.
- ACCESS DRIVE STONE TO BE ACQUIRED FROM N.Y.S.D.O.T. APPROVED QUARRY.
- THE DRIVEWAY SHOULD BE STRIPPED OF VEGETATION AND TOPSOIL, THEN PROOFROLLED WITH A LOADED TRUCK.
- IF ANY SOFT SURFACE SOILS ARE ENCOUNTERED, THEY SHOULD BE REMOVED AND REPLACED WITH COMPACTED FILL. ALL UNSTABILIZED FILL MATERIAL MUST PRODUCE A CBR OF 3.0 OR GREATER.

NOTES:

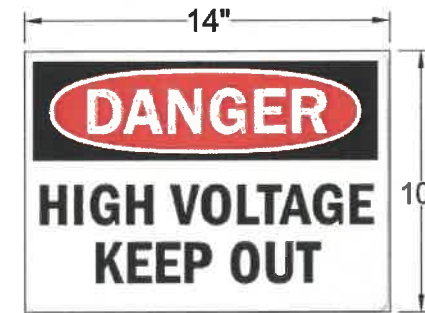
- CUT AND FILL SLOPES SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF DRIVEWAY GRADING. THESE AREAS SHALL BE BLANKETED WHEREVER THEY ARE LOCATED WITHIN 50 FEET OF A SURFACE WATER OR WITHIN 100 FEET OF A HIGH QUALITY SURFACE WATER OR WHERE A SUITABLE VEGETATIVE FILTER STRIP DOES NOT EXIST.
- A TOP DRESSING COMPOSED OF HARD, DURABLE STONE SHALL BE PROVIDED FOR SOILS HAVING LOW STRENGTH.
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- DRIVEWAYS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT, DAMAGED DRIVEWAYS, DITCHES, OR CROSS DRAINS SHALL BE REPAIRED IMMEDIATELY.



MOUNTED GATE AND FENCE LABEL (NOT TO SCALE)

NOTES:

- MOUNT TO EACH GATE DOOR AND FENCE PERIMETER LOCATION (APPROX. EVERY 300') WITH RESPECTIVE NOMENCLATURE.
- THIS SIGN IS TO BE MADE OF ALUMINUM



MOUNTED GATE AND FENCE LABEL (NOT TO SCALE)

NOTES:

- MOUNT TO EACH GATE DOOR AND FENCE PERIMETER LOCATION (APPROX. EVERY 50') WITH RESPECTIVE NOMENCLATURE.
- THIS SIGN IS TO BE MADE OF ALUMINUM

WARNING SIGNS
N.T.S.

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ECR	ECR
Designer	Reviewer
JL	ECR
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Sheet Name

DETAILS IV

Drawing Number

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ZXM7-SPLDD144 Series



Znshinesolar 10BB HALF-CELL Bifacial Light-Weight Double Glass Monocrystalline PERC PV Module

520W | 525W | 530W | 535W | 540W | 545W



Excellent cells efficiency

MBB technology decreases the distance between bus bars and finger grid line which is benefit to power increase.



Better Weak Illumination Response

More power output in weak light condition, such as haze, cloudy, and morning



Anti PID

Limited power degradation caused by PID effect is guaranteed under strict testing condition for mass production



High wind and snow resistance

- 5400 Pa snow load
- 2400 Pa wind load



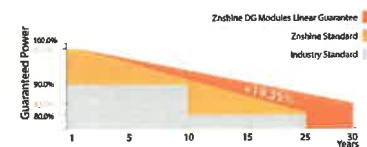
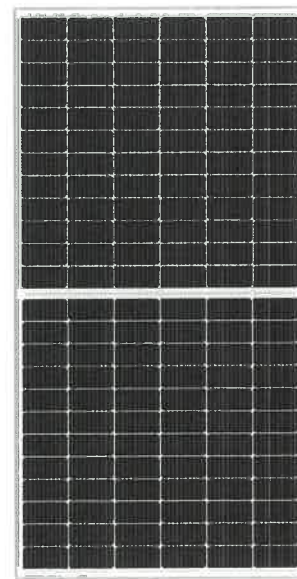
30 years power warranty

After 30 years our solar panel keeps at least 80% of its initial power output



Bifacial technology

Enables additional energy harvesting from rear side(up to 25%)



12 years product guarantee
30 years output guarantee

0.5% annual degradation
over 30 years



Founded in 1988 ZNSHINE solar is a world's leading high-tech PV module manufacturer. With the state-of-the-art production lines, the company boasts module capacity of 6GW. Bloomberg has listed ZNSHINE as a global Tier 1 PV module maker. Today ZNSHINE has distributed its sales to more than 60 countries around the globe.

www.znshinesolar.com

SOLAR ARRAY DETAIL
N.T.S.

ZXM7-SPLDD144 Series | Znshinesolar 10BB HALF-CELL Bifacial Light-Weight Double Glass Monocrystalline PERC PV Module



ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax(W)*	520	525	530	535	540	545
Power Output Tolerance Pmax(%)	0→+3	0→+3	0→+3	0→+3	0→+3	0→+3
Maximum Power Voltage Vmp(V)	40.70	40.90	41.10	41.30	41.50	41.70
Maximum Power Current Imp(A)	12.79	12.85	12.91	12.96	13.02	13.07
Open Circuit Voltage Voc(V)	49.00	49.20	49.40	49.60	49.80	50.00
Short Circuit Current Isc(A)	13.53	13.59	13.65	13.71	13.77	13.83
Module Efficiency (%)	20.34	20.54	20.74	20.93	21.13	21.32

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°C, AM 1.5
*Measuring tolerance: ±3%

ELECTRICAL CHARACTERISTICS | NMOT*

Maximum Power Pmax(Wp)	388.80	392.70	396.40	399.90	403.60	406.80
Maximum Power Voltage Vmpp(V)	37.90	38.00	38.20	38.40	38.50	38.80
Maximum Power Current Imp(A)	10.26	10.33	10.38	10.42	10.47	10.49
Open Circuit Voltage Voc(V)	45.80	46.00	46.20	46.30	46.50	46.70
Short Circuit Current Isc(A)	10.93	10.98	11.02	11.07	11.12	11.17

*NMOT (Nominal module operating temperature): irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

ELECTRICAL CHARACTERISTICS WITH 25% REAR SIDE POWER GAIN

Front power Pmax/W	520	525	530	535	540	545
Total power Pmax/W	650	656	663	669	675	681
Vmp/V(Total)	40.80	41.00	41.20	41.40	41.60	41.80
Imp/A(Total)	15.93	16.01	16.08	16.15	16.23	16.30
Voc/V(Total)	49.10	49.30	49.50	49.70	49.90	50.10
Isc/A(Total)	16.87	16.95	17.02	17.10	17.17	17.25

MECHANICAL DATA

Solar cells	Mono PERC
Cells orientation	144 (6x24)
Module dimension	2256x1133x35 mm(With Frame)
Weight	33.5 kg
Glass	2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Junction box	IP 68, 3 diodes
Cables	4 mm², 350 mm
Connectors	MC4-compatible

TEMPERATURE RATINGS

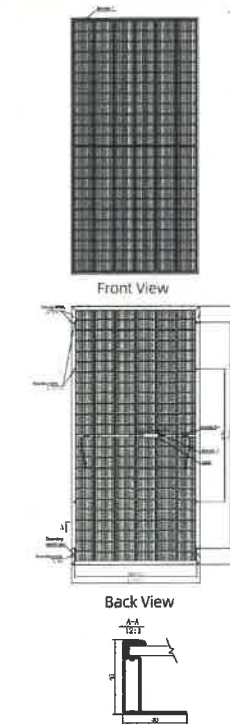
NMOT	44°C ±2°C	Maximum system voltage	1500 V DC
Temperature coefficient of Pmax	-0.35%/°C	Operating temperature	-40°C→+85°C
Temperature coefficient of Voc	-0.29%/°C	Maximum series fuse	30 A
Temperature coefficient of Isc	0.05%/°C	Maximum load(snow/wind)	5400 Pa / 2400 Pa

Refer. Bifacial Factor 70±5%
*Do not connect fuse in Combiner box with two or more strings in parallel connection.
*Remarks: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types

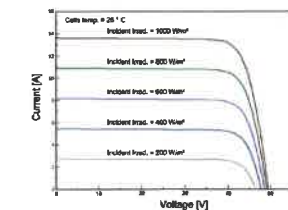
PACKAGING CONFIGURATION

Piece/Box	30
Piece/Container(40'HQ)	600
Piece/Container(20' High cube small package)	1

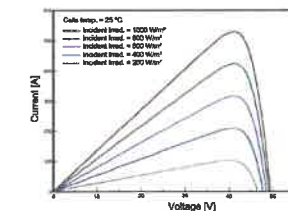
DIMENSIONS(MM)



I-V CURVES OF PV MODULE(530W)



P-V CURVES OF PV MODULE(530W)



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TJA-NY-SKANEATELES SOLAR FARM, LLC.

SKANEATELES SOLAR FARM
740 SHELDON ROAD
SKANEATELES, NY 13152

Date Revised Description

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Project Manager	Discipline Lead
ECR	ECR
Designer	Reviewer
JL	ECR
Date Issued	Project Number
08/31/2022	18237.00

Sheet Name

DETAILS V

Drawing Number

C504

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SUNNY HIGHPOWER PEAK3 125-US / 150-US



Cost effective

- Modular architecture reduces BOS and maximizes system uptime
- Compact design and high power density maximize transportation and logistical efficiency

Maximum flexibility

- Scalable 1,500 VDC building block with best-in-class performance
- Flexible architecture creates scalability while maximizing land usage

Simple install, commissioning

- Ergonomic handling and simple connections enable quick installation
- Centralized commissioning and control with SMA Data Manager

Highly innovative

- SMA Smart Connected reduces O&M costs and simplifies field-service
- Powered by award winning ennexOS cross sector energy management platform

SUNNY HIGHPOWER PEAK3 125-US / 150-US

A superior modular solution for large-scale power plants

The PEAK3 1,500 VDC inverter offers high power density in a modular architecture that achieves a cost-optimized solution for large-scale PV integrators. With fast, simple installation and commissioning, the Sunny Highpower PEAK3 is accelerating the path to energization. SMA has also brought its field-proven Smart Connected technology to the PEAK3, which simplifies O&M and contributes to lower lifetime service costs. The PEAK3 power plant solution is powered by the ennexOS cross sector energy management platform, 2018 winner of the Intersolar smarter E AWARD.

INVERTER DETAIL
N.T.S.

Technical Data

Input [DC]

- Maximum array power
- Maximum system voltage
- Rated MPP voltage range
- MPP operating voltage range
- MPP trackers
- Maximum operating input current
- Maximum input short-circuit current
- Output [AC]**
- Nominal AC power
- Maximum apparent power
- Output phases / line connections
- Nominal AC voltage
- Compatible transformer winding configuration
- Maximum output current
- Rated grid frequency
- Grid frequency / range
- Power factor at rated power / adjustable displacement
- Harmonics (THD)

Efficiency

CEC efficiency

Protection and safety features

- Ground fault monitoring: Risk / Differential current
- DC reverse polarity protection
- AC short circuit protection
- Monitored surge protection [Type 2]: DC / AC
- Protection class / overvoltage category (as per UL 840)

General data

- Device dimensions (W / H / D)
- Device weight
- Operating temperature range
- Storage temperature range
- Audible noise emission [full power @ 1m and 25 °C]
- Internal consumption at night
- Topology
- Cooling concept
- Enclosure protection rating
- Maximum permissible relative humidity (non-condensing)

Additional information

- Mounting
- DC connection
- AC connection
- LED indicators (Status/Fault/Communication)
- SMA Speedwire (Ethernet network interface)
- Data protocols: SMA Modbus / SunSpec Modbus
- Integrated Plant Control / Q on Demand 24/7
- Off-grid capable / SMA Hybrid Controller compatible
- SMA Smart Connected (proactive monitoring and service)

Certifications

- Certifications and approvals
- FCC compliance
- Grid interconnection standards
- Advanced grid support capabilities

Warranty

- Standard
- Optional extensions

Sunny Highpower PEAK3 125-US Sunny Highpower PEAK3 150-US

Maximum array power	187500 Wp STC	1500 VDC	225000 Wp STC
Maximum system voltage			
Rated MPP voltage range	705 V ... 1450 V		880 V ... 1450 V
MPP operating voltage range	684 V ... 1500 V		855 V ... 1500 V
MPP trackers		1	
Maximum operating input current		180 A	
Maximum input short-circuit current		325 A	
Output [AC]			
Nominal AC power	125000 W		150000 W
Maximum apparent power	125000 VA		150000 VA
Output phases / line connections		3 / 3-PE	
Nominal AC voltage	480 V		600 V
Compatible transformer winding configuration		Wye-grounded	
Maximum output current		151 A	
Rated grid frequency		60 Hz	
Grid frequency / range		50 Hz, 60 Hz / -6 Hz ... +6 Hz	
Power factor at rated power / adjustable displacement		1 / 0.0 leading ... 0.0 lagging	
Harmonics (THD)		<3%	
Efficiency			
CEC efficiency	98.5 %		99.0 %
Protection and safety features			
Ground fault monitoring: Risk / Differential current		• / •	
DC reverse polarity protection		•	
AC short circuit protection		•	
Monitored surge protection [Type 2]: DC / AC		• / •	
Protection class / overvoltage category (as per UL 840)		1 / IV	
General data			
Device dimensions (W / H / D)	770 / 830 / 444 mm [30.3 / 32.7 / 17.5 in.]		
Device weight	98 kg [216 lbs]		
Operating temperature range	-25 °C ... +60 °C [-13 °F ... +140 °F]		
Storage temperature range	-40 °C ... +70 °C [-40 °F ... +158 °F]		
Audible noise emission [full power @ 1m and 25 °C]	< 69 dB(A)		
Internal consumption at night	< 5 W		
Topology	Transformerless		
Cooling concept	OptiCool (forced convection, variable speed fans)		
Enclosure protection rating	Type 4X (as per UL 50E)		
Maximum permissible relative humidity (non-condensing)	100%		
Additional information			
Mounting	Rock mount		
DC connection	Terminal lugs - up to 600 kcmil CU/AL		
AC connection	Screw terminals - up to 300 kcmil CU/AL		
LED indicators (Status/Fault/Communication)	•		
SMA Speedwire (Ethernet network interface)	• [2 x RJ45 ports]		
Data protocols: SMA Modbus / SunSpec Modbus	• / •		
Integrated Plant Control / Q on Demand 24/7	• / •		
Off-grid capable / SMA Hybrid Controller compatible	- / •		
SMA Smart Connected (proactive monitoring and service)	•		
Certifications			
Certifications and approvals	UL 62109, UL 1998, CAN/CSA-C22.2 No.62109		
FCC compliance	FCC Part 15, Class A		
Grid interconnection standards	IEEE 1547, UL 1741 SA - CA Rule 21, HECO Rule 14H		
Advanced grid support capabilities	L/HVRT, L/HVRT, Volt-VAr, Volt-Watt, Frequency-Watt, Ramp Rate Control, Fixed Power Factor		
Warranty			
Standard	5 years		
Optional extensions	10 / 15 / 20 years		

Type designation SHP 125-US-20 SHP 150-US-20
 Technical data as of May 2020 • Standard features ◦ Optional features - Not available

Toll Free +1 888 4 SMA USA
www.SMA-America.com

SMA America, LLC

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 Albany, NY 12205
www.bergmannpc.com
 office: 518.862.0325

TJA-NY-SKANEATELES SOLAR FARM, LLC.

SKANEATELES SOLAR FARM
 740 SHELDON ROAD
 SKANEATELES, NY 13152

Date Revised	Description

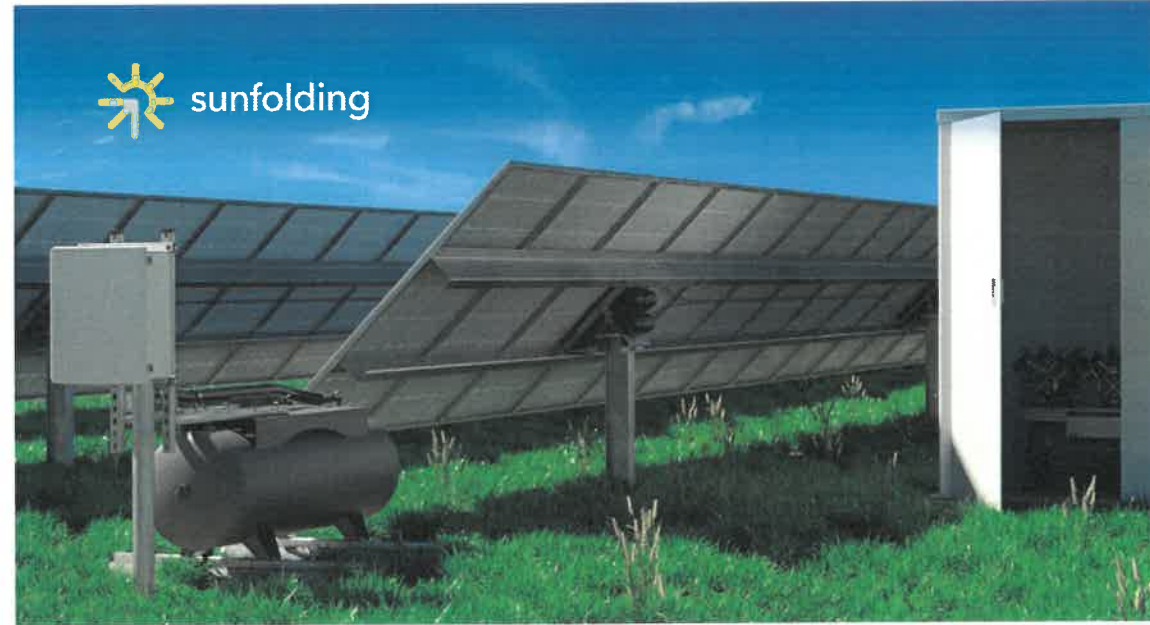
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Project Manager	Discipline Lead
ECR	ECR
Designer	Reviewer
JL	ECR
Date Issued	Project Number
08/31/2022	10237.00

Sheet Name

DETAILS VI
 Drawing Number
C505
 16 of 18



Sunfolding T29™ Single Axis Tracker

The Sunfolding T29™ Single-Axis Tracker improves project profitability by unlocking value on land with challenging terrain, soil, and site boundaries. With a design flexibility unmatched by any other tracker on the market, the Sunfolding T29 adapts to site features and streamlines installation and operations.

With tracker rows that can be virtually any length and removing mechanical linkages from the field, the Sunfolding T29 goes on undulating terrain with no change to the standard product and requires minimal grading.

Ease construction timelines and simplify logistics and material handling with fewer parts and standard off-the-shelf components and tools.

Upgrade your expectations of what a solar tracker can do for you.

www.sunfolding.com

Different Tracker Lengths. One Cost.
Sunfolding trackers can scale down to 2-posts without impacting costs. Fill every corner of the project site with solar modules and trackers for optimal site utilization.

Move Less Dirt.
Shorter tracker rows can follow hills and minimize the need to move dirt. Develop on complex terrain without flattening the land and reduce costs and schedule associated with extensive earthwork.

Simplify Foundations.
With lighter loads on each foundation, Sunfolding projects have lower embedment depth, use less steel, and reduce the risk of post rejection in all soil types.

RACKING SYSTEM DETAIL
N.T.S.

Sunfolding T29 Technical Specifications

STRUCTURAL AND MECHANICAL FEATURES	
Tracking Type	Horizontal single-axis tracker with distributed actuation
Drive Type	Sunfolding AirDrive X
Typical Dimensions	Height: ~3 ft (0.9m) Length: 1 to 2 module strings in length (~20 to 50 modules per structure) Width: 1 module in portrait
Tracker-to-Tracker Spacing	North & South: > 6 in (>150 mm)
Structural Materials	Galvanized steel
Wind Load	105 mph (168 kph) 3-second gusts per ASCE7-10 (standard) Up to 130 mph (209 kph) (available)
Snow Load	5 psf (0.24 kPa), higher available upon request
Foundation	All foundation types (driven pier, concrete foundation, ground screw, ballasted, poured)
DESIGN FEATURES	
Module Configuration	Single module in portrait (1P)
Module Spacing	8 mm
Supported Modules	All commercially available framed and frameless crystalline and thin film modules
Module Attachment	Module mounting via top mount clips (with integrated grounding) secured per manufacturer's recommendations
Ground Coverage Ratio (GCR)	Fully configurable, typical range 25% - 55%
Slope Tolerance	17.5% N - S; Unlimited E - W
CONTROL SYSTEM FEATURES	
Control System	Array controller, plus tracker controllers
Data Feed	Modbus TCP/IP
Solar Tracking Method	GPS time and location based on astronomical algorithm
Backtracking	Yes (thin film tracking available)
INSTALLATION, MAINTENANCE & WARRANTY	
Installation	No specialized tools
Maintenance	Completely centralized. No actuator lubrication required. No batteries to replace.
Independent Verification	Third party-verified construction model, installation rate analysis
Standard Warranty	10 years on structural components; 5 years on control components; 3 years on coatings.

www.sunfolding.com
sales@sunfolding.com



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Date Revised Description

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Project Manager ECR	Discipline Lead ECR
Designer JL	Reviewer ECR
Date Issued 08/31/2022	Project Number 18237.00

Sheet Name

DETAILS VII

Drawing Number

C506

UPLAND SEED MIX		
LOW-GROWING WILDFLOWER & GRASS MIX - ERNMX #156		
SEEDING RATE: 20 LB PER ACRE WITH A COVER CROP OF GRAIN RYE AT 30 LB PER ACRE		
SCIENTIFIC NAME	COMMON NAME	% OF MIX
FESTUCA OVINA	SHEEP FESCUE, VARIETY NOT STATED	63.60%
LOLIUM MULTIFLORUM (L. PERENNE VAR. ITALICUM)	ANNUAL RYEGRASS	17%
LINUM PERENNE SSP. LEWISII	PERENNIAL BLUE FLAX	8%
RUDBECKIA HIRTA	BLACKEYED SUSAN, COASTAL PLAIN NC ECOTYPE	2%
COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS, COASTAL PLAIN NC ECOTYPE	2%
CHRYSANTHEMUM LEUCANTHEMUM	OXEYE DAISY	2%
CHRYSANTHEMUM MAXIMUM	SHASTA DAISY	1%
CHAMAECRISTA FASCICULATA (CASSIA F.)	PARTRIDGE PEA, PA ECOTYPE	1%
PAPAVER RHOEAS, SHIRLEY MIX	CORN POPPYSHIRLEY MIX	1%
ACHILLEA MILLEFOLIUM	COMMON YARROW	0.5%
ASTER OBLONGIFOLIUS (SYMPHYOTRICHUM OBLONGIFOLIUM)	AROMATIC ASTER, PA ECOTYPE	0.5%
EUPATORIUM COELESTINUM (CONOCLINIUM C.)	MISTFLOWER, VA ECOTYPE	0.5%
MONARDA PUNCTATA, COASTAL PLAIN SC ECOTYPE	SPOTTED BEEBALM, COASTAL PLAIN SC ECOTYPE	0.5%
ASCLEPIAS TUBEROSA	BUTTERFLY MILKWEED	0.3%
PYCNANTHEMUM TENUIFOLIUM	SLENDER MOUNTAINMINT	0.1%
COMPANY INFORMATION		
ERNST CONSERVATION SEEDS, INC.		
ADDRESS: 8884 MERCER PIKE, MEADVILLE, PA 16335		
PHONE: (800) 873-3321		
WEB: HTTP://WWW.ERNSTSEED.COM		

*OR APPROVED EQUIVALENT

NOTES:

- WHEN FINAL GRADE IS ACHIEVED DURING NON-GERMINATING MONTHS, THE AREA SHOULD BE TEMPORARILY STABILIZED UNTIL THE BEGINNING OF THE NEXT PLANTING SEASON.
- MULCHES SHOULD BE APPLIED AT THE RATES SHOWN IN THE MULCH APPLICATION RATES TABLE. VERY LITTLE BARE GROUND SHOULD BE VISIBLE THROUGH THE MULCH.
- STRAW AND HAY MULCH SHOULD BE ANCHORED OR TACKIFIED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN.
- TOPSOIL SHOULD BE UNIFORMLY DISTRIBUTED ACROSS THE DISTURBED AREA TO A DEPTH OF 4 INCHES MINIMUM. SPREADING SHOULD BE DONE IN SUCH A MANNER THAT SEEDING CAN PROCEED WITH A MINIMUM OF ADDITIONAL PREPARATION OR TILLAGE.
- TOPSOIL SHOULD NOT BE PLACED WHILE THE TOPSOIL OF SUBSOIL IS IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBSOIL IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING AND SEEDBED PREPARATION.
- WHEN USED AS A MULCH REPLACEMENT, THE APPLICATION RATE (THICKNESS) OF THE COMPOST SHOULD BE 1/2" TO 3/4". COMPOST SHOULD BE PLACED EVENLY AND SHOULD PROVIDE 100% SOIL COVERAGE. NO SOIL SHOULD BE VISIBLE. BLANKETING SHALL BE USED ON ALL SLOPES 3H:1V OR STEEPER OR AS NOTED ON THE PLANS.
- PERMANENT STABILIZATION SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF EARTH DISTURBANCE. WETLAND SEED MIX SHOULD BE INSTALLED ONLY IN DRY SWALE.

SOIL AMENDMENT APPLICATION RATE EQUIVALENTS				
SOIL AMENDMENT	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.	NOTES
AGRICULTURAL LIME	6 TONS	240 LB.	2,480 LB.	OR AS PER SOIL TEST: MAY NOT BE REQUIRED IN AGRICULTURAL FIELDS
10-10-20 FERTILIZER	1,000 LB.	25 LB.	210 LB.	
AGRICULTURAL LIME	1 TON	40 LB.	410 LB.	TYPICALLY NOT REQUIRED FOR TOPSOIL STOCKPILES
10-10-20 FERTILIZER	500 LB.	12.5 LB.	100 LB.	
COMPOST STANDARDS				
ORGANIC MATTER CONTENT	80% - 100% (DRY WEIGHT BASIS)			
ORGANIC PORTION	FIBROUS AND ELONGATED			
pH	5.5 - 8.0			
MOISTURE CONTENT	35% - 55%			
PARTICLE SIZE	98% PASS THROUGH 1" SCREEN			
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAXIMUM			
MULCH APPLICATION RATES				
MULCH TYPE	APPLICATION RATE (MIN.)			NOTES
	PER ACRE	PER 1,000 SQ. FT.	PER 1,000 SQ. YD.	
STRAW	3 TONS	140 LB.	1,240 LB.	EITHER WHEAT OR OAT STRAW, FREE OF WEEDS, NOT CHOPPED OR FINELY BROKEN
HAY	3 TONS	140 LB.	1,240 LB.	TIMOTHY, MIXED CLOVER AND TIMOTHY, OR OTHER NATIVE FORAGE GRASSES
WOOD CELLULOSE	1,500 LB.	35 LB.	310 LB.	DO NOT USE ALONE IN WINTER, DURING HOT AND DRY WEATHER OR ON STEEP SLOPES (> 3:1)
WOOD	1,000 LB. CELLULOSE	25 LB.	210 LB.	WHEN USED OVER STRAW OR HAY
WOOD CHIPS	4 - 6 TONS	185 - 275 LB.	1,650 - 2,500 LB.	MAY PREVENT GERMINATION OF GRASSES AND LEGUMES

SITE STABILIZATION SEED MIX

VEGETATIVE STABILIZATION		
STREAMBANK AND WETLAND MIX - ERNMX #128		
SEEDING RATE: 15 LBS PER ACRE, OR 1/2 LB PER 1,000 SQ FT		
SCIENTIFIC NAME	COMMON NAME	% OF MIX
CAREX VULPINOIDEA	FOX SEDGE	20%
ECHINOCHLOA CRUSGALLI VAR. FRUMENTACEA	JAPANESE MILLET	20%
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	20%
POLYGONUM PENNSYLVANICUM	PENNSYLVANIA SMARTWEED	19.5%
AGROSTIS SCABRA	TICKLEGRASS (ROUGH BENTGRASS)	5%
PANICUM VIRGATUM, SHELTER	SHELTER SWITCH GRASS	5%
CAREX STIPATA	AWL SEDGE	3%
PANICUM CLANDESTINUM	TIOGA DEER TONGUE	3%
CAREX SCOPARIA	BLUNT BROOM SEDGE	2.5%
BIDENS CERNUA MIX	NODDING BUR MARIGOLD MIX	1%
JUNCUS TENUIS	PATH RUSH	1%
MULCH: STRAW (SEEDING RATE: 6,000 LBS PER ACRE)		
COMPANY INFORMATION		
ERNST CONSERVATION SEEDS, INC.		
ADDRESS: 8884 MERCER PIKE, MEADVILLE, PA 16335		
PHONE: (800) 873-3321		
WEB: HTTP://WWW.ERNSTSEED.COM		

*OR APPROVED EQUIVALENT

STREAMBANK & WETLAND SEED MIX

POLLINATOR		
FUZZ & BUZZ MIX - ERNMX #146		
SEEDING RATE: 26.5 LBS PER ACRE		
SCIENTIFIC NAME	COMMON NAME	% OF MIX
LOLIUM PERENNE	PERENNIAL RYEGRASS	26.4%
DACTYLIS GLOMERATA	ORCHARDGRASS	25.8%
POA PRATENSIS	KENTUCKY BLUEGRASS	18.9%
FESTUCA ELATIOR X LOLIUM PERENNE	FESTULOLIUM	12.0%
TRIFOLIUM HYBRIDUM	ALSIKE CLOVER	5.7%
TRIFOLIUM PRATENSE	RED CLOVER	5.7%
CHRYSANTHEMUM LEUCANTHEMUM	OXEYE DAISY	1.3%
CICHORIUM INTYBUS	BLUE CHICORY	1.3%
LOTUS CORNICULATUS	BIRD'S FOOT TREFLOIL	1.1%
COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS	0.9%
SOLIDAGO NEMORALIS	GRAY GOLDENROD	0.9%
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PHONE: (800) 873-3321		
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*OR APPROVED EQUIVALENT

NOTES:

- FUZZ & BUZZ MIX TO BE USED INSIDE THE FENCED AREAS. UPLAND SEED MIX TO BE USED OUTSIDE THE FENCE.

POLLINATOR SEED MIX

TYPE OF SOIL DISTURBANCE	SOIL RESTORATION REQUIREMENTS		COMMENTS/EXAMPLES
	RESTORATION NOT PERMITTED		
NO SOIL DISTURBANCE	RESTORATION NOT PERMITTED		PRESERVATION OF NATURAL FEATURES
MINIMAL SOIL DISTURBANCE	RESTORATION NOT REQUIRED		CLEARING AND GRUBBING
AREAS WHERE TOPSOIL IS STRIPPED ONLY - NO CHANGE IN GRADE	HSG A&B APPLY 6 INCHES OF TOPSOIL	HSG C&D AERATE* AND APPLY 6 INCHES OF TOPSOIL	PROTECT AREA FROM ANY ONGOING CONSTRUCTION ACTIVITIES.
	HSG A&B AERATE* AND APPLY 6 INCHES OF TOPSOIL	APPLY FULL SOIL RESTORATION**	
AREAS OF CUT OR FILL	APPLY FULL SOIL RESTORATION (DECOMPACTION AND COMPOST ENHANCEMENT)		
HEAVY TRAFFIC AREAS ON SITE (ESPECIALLY IN A ZONE 5-25 FEET AROUND BUILDINGS BUT NOT WITHIN A 5 FOOT PERIMETER AROUND FOUNDATION WALLS)	RESTORATION NOT REQUIRED, BUT MAY BE APPLIED TO ENHANCE THE REDUCTION SPECIFIED FOR APPROPRIATE PRACTICES.		KEEP CONSTRUCTION EQUIPMENT FROM CROSSING THESE AREAS. TO PROTECT NEWLY INSTALLED PRACTICE FROM ANY ONGOING CONSTRUCTION ACTIVITIES CONSTRUCT A SINGLE PHASE OPERATION FENCE AREA.
AREAS WHERE RUNOFF REDUCTION AND/OR INFILTRATION PRACTICES ARE APPLIED	RESTORATION IS REQUIRED ON REDEVELOPMENT PROJECTS IN AREAS WHERE EXISTING IMPERVIOUS AREA WILL BE CONVERTED TO PERVIOUS AREA.		
REDEVELOPMENT PROJECTS	* AERATION INCLUDES THE USE OF MACHINES SUCH AS TRACTOR-DRAWN IMPLEMENTS WITH COULTERS MAKING A NARROW SLIT IN THE SOIL, A ROLLER WITH MANY SPIKES MAKING INDENTATIONS IN THE SOIL, OR PRONGS WHICH FUNCTION LIKE A MINI-SUBSOILER. ** PER "DEEP RIPPING AND DE-COMPACTION, DEC 2008"		

NOTES:

DURING PERIODS OF RELATIVELY LOW TO MODERATE SUBSOIL MOISTURE, THE DISTURBED SUBSOILS ARE RETURNED TO ROUGH GRADE AND THE FOLLOWING SOIL RESTORATION STEPS APPLIED:

- APPLY 3 INCHES OF COMPOST OVER SUBSOIL. THE COMPOST SHALL BE WELL DECOMPOSED (MATURED AT LEAST 3 MONTHS), WEED-FREE, ORGANIC MATTER. IT SHALL BE AEROBICALLY COMPOSTED, POSSESS NO OBJECTIONABLE ODORS, AND CONTAIN LESS THAN 1% BY DRY WEIGHT, OF MAN-MADE FOREIGN MATTER. THE PHYSICAL PARAMETERS OF THE COMPOST SHALL MEET THE STANDARDS LISTED IN TABLE 5.2 - COMPOST STANDARDS TABLE, EXCEPT FOR "PARTICLE SIZE" 100% WILL PASS THE 1/2" SIEVE. NOTE: ALL BIOSOLIDS COMPOST PRODUCED IN NEW YORK STATE (OR APPROVED FOR IMPORTATION) MUST MEET NYS DEC'S 6 NYCRR PART 360 (SOLID WASTE MANAGEMENT FACILITIES) REQUIREMENTS. THE PART 360 REQUIREMENTS ARE EQUAL TO OR MORE STRINGENT THAN 40 CFR PART 503 WHICH ENSURE SAFE STANDARDS FOR PATHOGEN REDUCTION AND HEAVY METALS CONTENT.
- TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER, TO MIX AND CIRCULATE AIR AND COMPOST INTO THE SUBSOIL.
- ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
- APPLY TOPSOIL TO A DEPTH OF 6 INCHES.
- VEGETATE AS REQUIRED BY THE SEEDING PLAN. USE APPROPRIATE GROUND COVER WITH DEEP ROOTS TO MAINTAIN THE SOIL STRUCTURE. TOPSOIL MAY BE MANUFACTURED AS A MIXTURE OR A MINERAL COMPONENT AND ORGANIC MATERIAL SUCH AS COMPOST. AT THE END OF THE PROJECT AN INSPECTOR SHOULD BE ABLE TO PUSH A 3/8" METAL BAR 12 INCHES INTO THE SOIL JUST WITH BODY WEIGHT. THIS SHOULD NOT BE PERFORMED WITHIN THE DRIP LINE OF ANY EXISTING TREES OR OVER UTILITY INSTALLATIONS THAT ARE WITHIN 24 INCHES OF THE SURFACE.

SOIL RESTORATION DETAILS

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Date Revised Description

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Project Manager	Discipline Lead
ECR	ECR
Designer	Reviewer
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DETAILS VIII

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