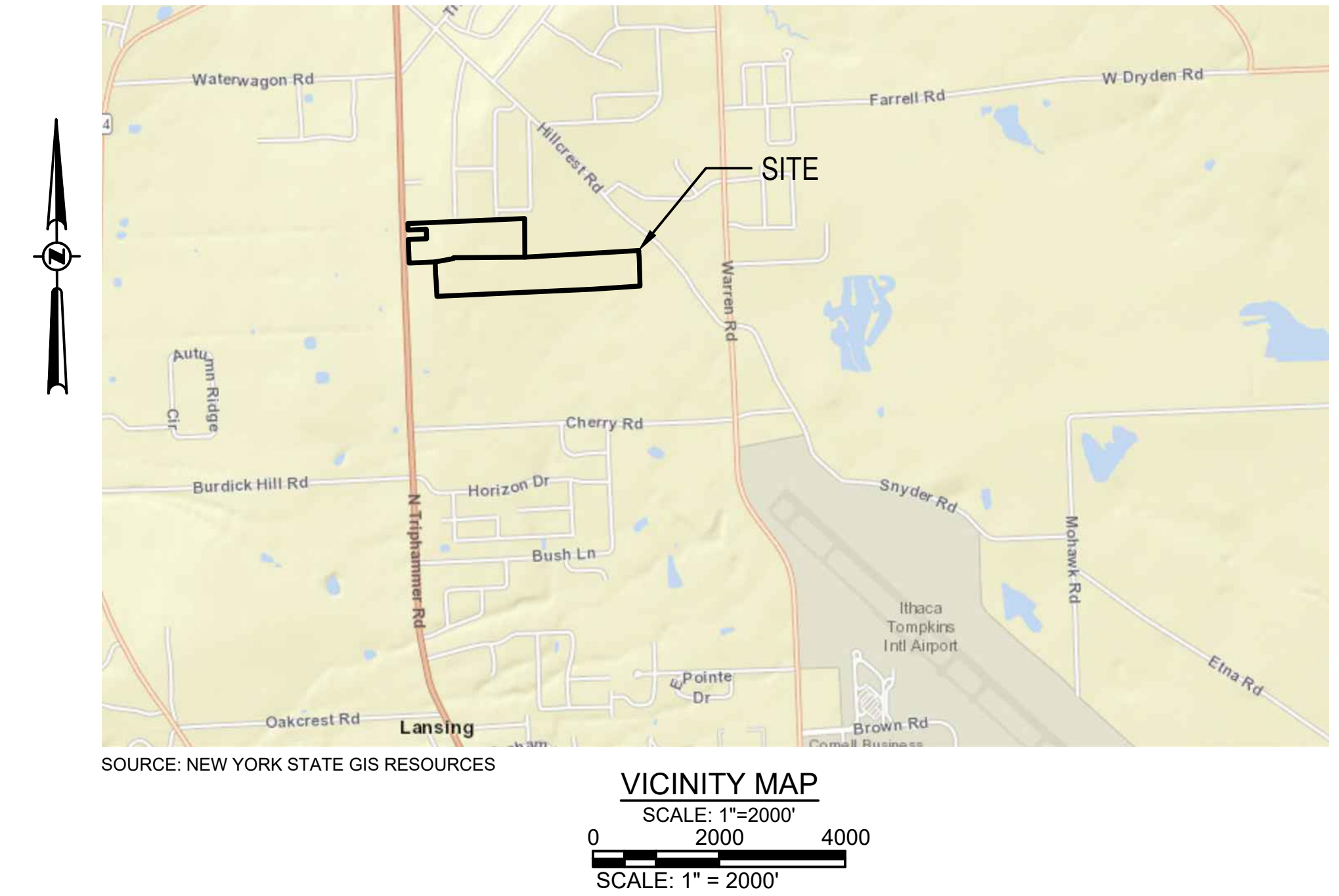


NY LANSING II, LLC

NORTH TRIPHAMMER ROAD SOLAR PROJECT 3.0 MW AC LANSING, NEW YORK



PLANS

ISSUED FOR: CLIENT REVIEW
 ISSUE DATE: 07/29/2024
 LAST REVISED: 07/29/2024

PROJECT CONTACTS

ENGINEER:
 P.W. GROSSER CONSULTING, INC.
 630 JOHNSON AVENUE, SUITE 7, BOHEMIA, NY 11716
 TEL: (631) 589-6353
 FAX: (631) 589-8705

MUNICIPAL CONTACTS

TOWN:
 TOWN OF LANSING
 26 AUBURN ROAD
 LANSING, NY 14882
 TEL (607) 533-4142

COUNTY:
 TOMPKINS COUNTY
 320 N TIOGA STREET
 ITHACA, NY 14850
 TEL (607) 274-5431

SITE INFORMATION

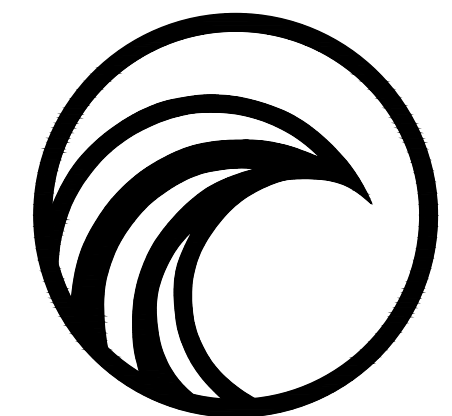
SITE: NORTH TRIPHAMMER ROAD, LANSING NY, 14882
 TM #: 44-1-1.2 & 44-1-3.3
 LOT AREA: 66.83 AC

SHEET INDEX

NO.	SHEET	TITLE
1.	COVER	
2.	C-001	GENERAL NOTES AND LEGEND INFORMATION
3.	C-100	EXISTING CONDITIONS PLAN
4.	C-101	CONCEPTUAL SITE LAYOUT PLAN
5.	C-200	CONCEPTUAL GRADING AND DRAINAGE PLAN
6.	C-201	CONCEPTUAL EROSION AND SED. CONTROL PLAN
7.	C-500	CONCEPTUAL LANDSCAPING PLAN
8.	C-501	PRIME SOILS IMPACT MAP
9.	C-600	SITE DETAILS
10.	C-601	EROSION AND SED. CONTROL DETAILS
11.	C-602	ELECTRICAL THREE LINE DIAGRAM

CLIENT INFORMATION

CLIENT:
 NY LANSING II, LLC
 P.O. BOX 384
 CALLICOON, NY 12783



PWGC

CLIENT DRIVEN SOLUTIONS

P.W. GROSSER CONSULTING, INC.

630 Johnson Avenue • Suite 7
 Bohemia • NY • 11716-2618
 Phone: (631) 589-6353 • Fax: (631) 589-8705
 E-mail: INFO@PWGROSSER.COM

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 NOT FOR CONSTRUCTION**

**COVER
 SHEET 1 OF 11**

BASEMAP NOTES

- EXISTING CONDITIONS BASEMAP INFORMATION IS BASED ON LIDAR FROM NYS GIS DATA DOWNLOADED ON 04-01-24.
- PROPOSED SOLAR DEVELOPMENT LAYOUT INFORMATION IS BASED ON CONCEPTUAL LAYOUT PLAN DEVELOPED BY MONGAUP RIVER SOLAR, SHEET TITLED "LAYOUT TECHNICAL REVIEW" AT 1":250' SCALE, DATED 03-26-24. ALL BASEMAP INFORMATION IS TO BE CONSIDERED APPROXIMATE AND IS TO BE FIELD VERIFIED BY A NEW YORK STATE LICENSED SURVEYOR PRIOR TO FINALIZING DESIGN.
- LOT LINES BASED ON INFORMATION PROVIDED FROM NYS GIS; DOWNLOADED ON 04-01-24.

SURVEY NOTES

- ALL SURVEY AND SITE STAKEOUTS FOR PROPOSED FEATURES SHALL BE PERFORMED BY A NEW YORK STATE LICENSED SURVEYOR.
- CONTRACTOR WILL BE RESPONSIBLE TO LOCATE, MARK AND PROTECT ALL EXISTING SURVEY, PROPERTY, AND RIGHT-OF-WAY MARKERS FOR THE SITE. ANY MARKERS, PINS, MONUMENTS OR OTHER FEATURES DEFINING PROPERTY LIMITS THAT MAY BE DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE PROPERLY TIED AND RESET BY A NEW YORK STATE LICENSED SURVEYOR UPON COMPLETION OF THE WORK.
- THE HORIZONTAL DATUM IS NAD83 NEW YORK STATE PLANE COORDINATE SYSTEM, (US FT).
- THE VERTICAL DATUM IS NAVD88.

GENERAL NOTES

- THE INFORMATION IN THIS DRAWING SET IS CONCEPTUAL AND IS INTENDED FOR TOWN BOARD PLANNING AND DISCUSSION PURPOSES ONLY. THIS DRAWING SET IS NOT TO BE USED FOR CONSTRUCTION OR BIDDING PURPOSES.
- CONTRACTOR WILL BE RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS AND SITE FEATURES PRIOR TO CONSTRUCTION. ANY DISCREPANCIES FOUND SHALL BE DOCUMENTED IN WRITING AND SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- CONTRACTOR WILL BE RESPONSIBLE TO LOCATE AND MARK OUT ALL EXISTING UTILITIES, INCLUDING THOSE UNDERGROUND, PRIOR TO CONSTRUCTION. ANY POTENTIAL INTERFERENCES WITH PROPOSED FEATURES SHALL BE DOCUMENTED IN WRITING AND SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE FEATURES AND UTILITIES THAT ARE NOT DESIGNATED FOR REMOVAL. ANY SITE FEATURE, UTILITY, STREET APPURTENANCE, OR OTHER ITEM THIS IS DAMAGED BY THE CONTRACTOR OR ITS SUBCONTRACTORS DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED IN-KIND BY THE CONTRACTOR, AS DETERMINED BY THE OWNER OR ENGINEER, AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR WILL BE REQUIRED TO OBTAIN ANY ADDITIONAL PERMITS REQUIRED TO DO THE WORK OR DELIVER MATERIALS TO THE SITE THAT ARE NOT PROVIDED BY THE OWNER OR ENGINEER. ALL WORK WITHIN AN EXISTING RIGHT-OF-WAY WILL REQUIRE PERMITTING WITH RESPECTIVE OWNER, STATE OR COUNTY AGENCY, TOWN DEPARTMENT OF PUBLIC WORKS, OR HIGHWAY DEPARTMENT AS APPLICABLE.

ZONING ANALYSIS

TM #: 44-1-12 & 44-1-3.3
 EXISTING ZONING: RESIDENTIAL - MODERATE DENSITY (R2)
 LOT AREA: 66.83 ACRES
 PROPOSED USE: SOLAR ENERGY FACILITY

	REQUIRED	PROPOSED
LOT SIZE	N/A	31,517 AC.
MAX. LOT COVERAGE	25%	22.24%
MAX. HEIGHT	18'	15'
PROPERTY SETBACK (FRONT & ROAD)	60'	1255.6'
PROPERTY SETBACK (SIDE)	10'	45.8'
PROPERTY SETBACK (BACK)	25'	91.0'

EROSION AND SEDIMENT CONTROL NOTES

- ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (BLUE BOOK), AND LOCAL GOVERNING SOIL AND WATER CONSERVATION DISTRICT STANDARDS. THE EROSION AND SEDIMENT CONTROLS SHOWN ON THESE PLANS AND AS DESCRIBED IN THE PROJECT SWPPP REPRESENT THE MINIMUM REQUIREMENTS AND ADDITIONAL EROSION AND SEDIMENT CONTROLS MAY BE REQUIRED BASED ON CONDITIONS ENCOUNTERED IN THE FIELD. CONTRACTOR WILL BE RESPONSIBLE FOR ENSURING PROJECT REMAINS IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND STANDARDS PERTAINING TO EROSION AND SEDIMENT CONTROLS.
- EROSION AND SEDIMENT CONTROLS WILL BE INSTALLED PRIOR TO ANY EARTH DISTURBING ACTIVITIES AND WILL BE MAINTAINED FOR THE DURATION OF THE WORK, INCLUDING TEMPORARY CONSTRUCTION SWALES AND DETENTION POND WITH OUTLET STRUCTURE AND ROCK OUTLET PROTECTION.
- CONTRACTOR WILL UTILIZE MEANS, METHODS AND SEQUENCING THAT MINIMIZE THE AMOUNT OF EARTH DISTURBANCE TO THE EXTENT PRACTICAL, AND NOT TO EXCEED MORE THAN 5.0 ACRES AT ANY GIVEN TIME.
- CONTRACTOR SHALL PROTECT ALL ON-SITE, ADJACENT AND/OR DOWNSTREAM STORM/SANITARY SEWERS, AND/OR OTHER WATER COURSES FROM CONTAMINATION BY WATER BORNE SILTS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS OR OTHER POLLUTANTS ORIGINATING FROM THE SITE OR WORK BEING PERFORMED.
- CONTRACTOR WILL FOLLOW GOOD HOUSEKEEPING AND SPILL CONTROL PRACTICES DURING SITE ACTIVITIES TO MINIMIZE STORMWATER CONTAMINATION FROM CONCRETE, PETROLEUM PRODUCTS AND WASTE MATERIALS. NO WET OR FRESH CONCRETE, LEACHATE OR WASHINGS FROM EQUIPMENT SHALL BE ALLOWED TO MIGRATE INTO EXISTING STORM/SANITARY SEWERS, DITCHES OR OTHER WATERS OF NEW YORK STATE.
- ALL EXCAVATED OR IMPORTED MATERIAL STOCKPILES SHALL BE SUITABLY STABILIZED AND SURROUNDED BY SILT FENCE TO MINIMIZE POTENTIAL FOR SEDIMENT LADEN RUNOFF DISCHARGING TO DOWNSTREAM AREAS OR DRAINAGE FEATURES. DISTURBED SOILS OR STOCKPILES THAT ARE TO BE EXPOSED FOR MORE THAN 14 CALENDAR DAYS SHALL BE TEMPORARILY STABILIZED WITH SEED MIX CONSISTING OF RYEGRASS (ANNUAL OR PERENNIAL) APPLIED AT 30 LBS PER ACRES (0.7 LBS PER 1,000 SQ. FT.), OR CERTIFIED "AROOSTOOK" WINTER RYE (CEREAL RYE) APPLIED AT 100 LBS PER ACRES (2.5 LBS PER 1,000 SQ. FT.) IF SEEDING IN OCTOBER OR NOVEMBER.
- CONTRACTOR MATERIAL AND EQUIPMENT STAGING AREAS AND CONSTRUCTION ENTRANCE LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF CONSTRUCTION. CONSTRUCTION ENTRANCES AS SHOWN ON THE PLANS MAY BE MODIFIED BY THE CONTRACTOR WITH PRIOR APPROVAL FROM THE OWNER AND ENGINEER.
- ALL EXISTING OR NEWLY INSTALLED CATCH BASINS/DRAINAGE INLETS SHALL HAVE DROP INLET PROTECTION INSTALLED THROUGHOUT THE DURATION OF CONSTRUCTION TO PREVENT SEDIMENTATION FROM ENTERING THE STORM SYSTEM. CONTRACTOR SHALL MAINTAIN OR REPLACE DROP INLET PROTECTION WHEN SIGNIFICANT SEDIMENT BUILDUP IS OBSERVED OR IS NOT FUNCTIONING CORRECTLY.
- CONTRACTOR SHALL TAKE ALL NECESSARY AND APPROPRIATE MEASURES TO MITIGATE OR PREVENT FUGITIVE DUST THROUGHOUT THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL ADHERE TO METHODS AS DESCRIBED IN THE PROJECT SWPPP.
- COMPLETED WORK THAT IS NOT SUBJECT TO FURTHER EARTHWORK OR CONSTRUCTION ACTIVITIES SHALL BE PERMANENTLY SEEDED AND MULCHED WITH HAY OR STRAW WITHIN ONE WEEK OF FINAL DISTURBANCE. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE VEGETATIVE COVER IS ESTABLISHED.

GRADING NOTES

- CONCEPTUAL GRADING DESIGN SHOWN IN THESE PLANS IS BASED ON NYS LIDAR INFORMATION PROVIDED TO PWGC BY PACKER ASSOCIATES, INC. AND IS TO BE CONSIDERED APPROXIMATE AND CONCEPTUAL, AND FOR DISCUSSION PURPOSES ONLY. GRADING DESIGN IS SUBJECT TO CHANGE BASED ON FURTHER SITE INVESTIGATIONS AND ANALYSIS.
- ADDITIONAL SITE GEOTECHNICAL ANALYSIS IS REQUIRED TO VERIFY GRADING CONSTRAINTS AND FEASIBILITY.
- GRADING SHALL PERFORMED IN ACCORDANCE WITH ALL APPLICABLE STATE AND OSHA REQUIREMENTS. THE CONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF OSHA, AND ANY OTHER AGENCY HAVING JURISDICTION WITH REGARD TO SAFETY PRECAUTIONS WITH TRENCHING OR EXCAVATION AND GRADING OPERATIONS. THE REQUIREMENTS SET FORTH HEREIN ARE INTENDED TO SUPPLEMENT REQUIREMENTS ESTABLISHED BY THESE AGENCIES. IN THE CASE OF A CONFLICT BETWEEN REQUIREMENTS OF OTHER JURISDICTIONAL AGENCIES AND THESE DOCUMENTS, THE MORE STRINGENT REQUIREMENT ON THE CONTRACTOR SHALL APPLY.
- VOIDS LEFT BY UTILITY OR STRUCTURE EXCAVATIONS, OR GRUBBING OPERATIONS SHALL BE BACKFILLED AND PROPERLY COMPACTED WITH STRUCTURAL FILL (NYS DOT ITEM 304.12 OR EQUIVALENT) IN AREAS UNDER AND WITHIN 5 FEET HORIZONTALLY OF ALL STRUCTURES, AND PAVEMENTS. IN GRASSED AREAS, VOIDS LEFT SHALL BE FILLED AND PROPERLY COMPACTED WITH SUITABLE ON-SITE BACKFILL AS APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL DEWATER ALL EXCAVATIONS TO PREVENT THE INTRODUCTION OF GROUNDWATER OR PONDED WATER INTO THE TRENCHES/EXCAVATIONS AND WILL PROVIDE ALL EQUIPMENT NECESSARY TO MAINTAIN THE WATER AS NECESSARY. DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SWPPP.
- UNLESS OTHERWISE DIRECTED, THE CONTRACTOR SHALL PLACE AT MINIMUM 6 INCHES OF CLEAN TOPSOIL IN ALL DISTURBED AND NEWLY GRADED AREAS PRIOR TO SEEDING.

WETLANDS NOTES

- EXISTING STREAM AND WETLANDS INFORMATION IS BASED ON DEC ENVIRONMENTAL RESOURCE MAPPER PUBLICLY AVAILABLE DATA DOWNLOADED ON 04-01-24, AND A WETLANDS DELINEATION PERFORMED BY PWGC ON 06-15-24.
- ACTUAL LIMITS OF ALL STREAMS, WETLANDS AND WETLAND ADJACENT AREAS ARE TO BE FIELD VERIFIED VIA SURVEY AND WILL BE MARKED IN THE FIELD BY SURVEY MARKERS, RIBBON, FLAGS, OR EQUIVALENT PRIOR TO START OF CONSTRUCTION.
- EFFORTS SHALL BE MADE TO MINIMIZE DISTURBANCE TO ANY STATE OR FEDERALLY REGULATED WETLANDS. UNNECESSARY REMOVAL OF VEGETATION OR DEGRADATION ALONG STREAM BANKS IS PROHIBITED.
- IF TEMPORARY ACCESS IS REQUIRED IN WETLAND AREAS, TEMPORARY TIMBER MATS WILL BE USED TO MINIMIZE DISTURBANCE TO UNDERLYING WETLAND SOILS.
- STAGING OF ANY CONSTRUCTION MATERIALS OR EQUIPMENT IS PROHIBITED IN WETLAND AREAS.
- ANY WETLAND DISTURBANCE IS TO BE RESTORED WITH APPROPRIATE WETLAND SEED MIX IN ACCORDANCE WITH NYS DOT ITEM 203.01920007 OR MOST CURRENT ACOE REQUIREMENTS RELATED TO WETLANDS MITIGATION. COMPONENT OF THE SEED MIX MAY BE SUBSTITUTED WITH THE ENGINEER'S APPROVAL.

WETLANDS AREA OF DISTURBANCE

GRAVEL ACCESS ROAD: 0.36 AC.
 SOLAR PANEL H-POSTS: 568 POSTS x 1.3 SF = 0.017 AC.
 FENCE POSTS: 254 POSTS x 1.3 SF = 0.008 AC.
 RAIN GARDENS: 0.17 AC.
 TOTAL: 0.555 AC.

REQUIRED WETLANDS MITIGATION AREA: 0.555 AC. x 1.5 = 0.8325 AC.
 PROVIDED WETLANDS MITIGATION AREA: 0.85 AC.

LEGEND

EXISTING	CONCEPTUAL	NOTES
TOPOGRAPHIC FEATURES		
		MINOR CONTOURS (5-FT INTERVAL) MAJOR CONTOURS (10-FT INTERVAL) LIMITS OF GRADING
DRAINAGE ELEMENTS		
		STREAM WATER BAR
		LINED SWALE ROCK OUTLET PROTECTION
		DRAINAGE CULVERT DETENTION POND OUTLET STRUCTURE
		WETLANDS MITIGATION AREA
SITE FEATURES		
		PROPERTY BOUNDARY ZONING SETBACK
		APPROXIMATE WETLAND LIMITS POTENTIAL WETLAND LIMITS
		ADJACENT PROPERTY BOUNDARY APPROXIMATE WETLANDS OFFSET
		PAVED ROADWAY GRAVEL ROADWAY
		OVERHEAD ELECTRICAL UTILITY UNDERGROUND ELECTRICAL UTILITY
		8-FT TALL DEER FENCE SOLAR PANEL ARRAY
		SEED RESTORATION LIMITS TREE LINE
EROSION AND SEDIMENT CONTROL		
		SILT FENCE LAND GRADING ACTIVITIES
		STABILIZED CONSTRUCTION ENTRANCE DUST CONTROL MEASURES
		LIMITS OF CLEARING

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3	CLIENT REVIEW	07/29/2024
2	WETLANDS UPDATE	07/24/2024
1	CLIENT REVIEW	04/05/2024
Number	Revision Description	Revision Date

Designed By: _____ Date Submitted: _____
 Drawn By: **HLW/RV** Date Created: **03/28/2024**
 Approval By: **MTS** Scale: **AS NOTED**

Client:
NY LANSING II, LLC
P.O. BOX 384
CALLICOON, NY 12783

Project:
NORTH TRIPHAMMER ROAD
SOLAR FARM CONCEPTUAL
SITE PLAN

Project Address:
NORTH TRIPHAMMER ROAD
TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

County Tax Map Number: **44-1-1.2 & 44-1-3.3** Contact Number: ---
 Regulatory Reference Number: ---

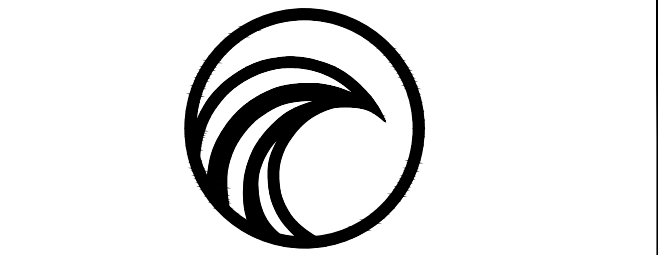
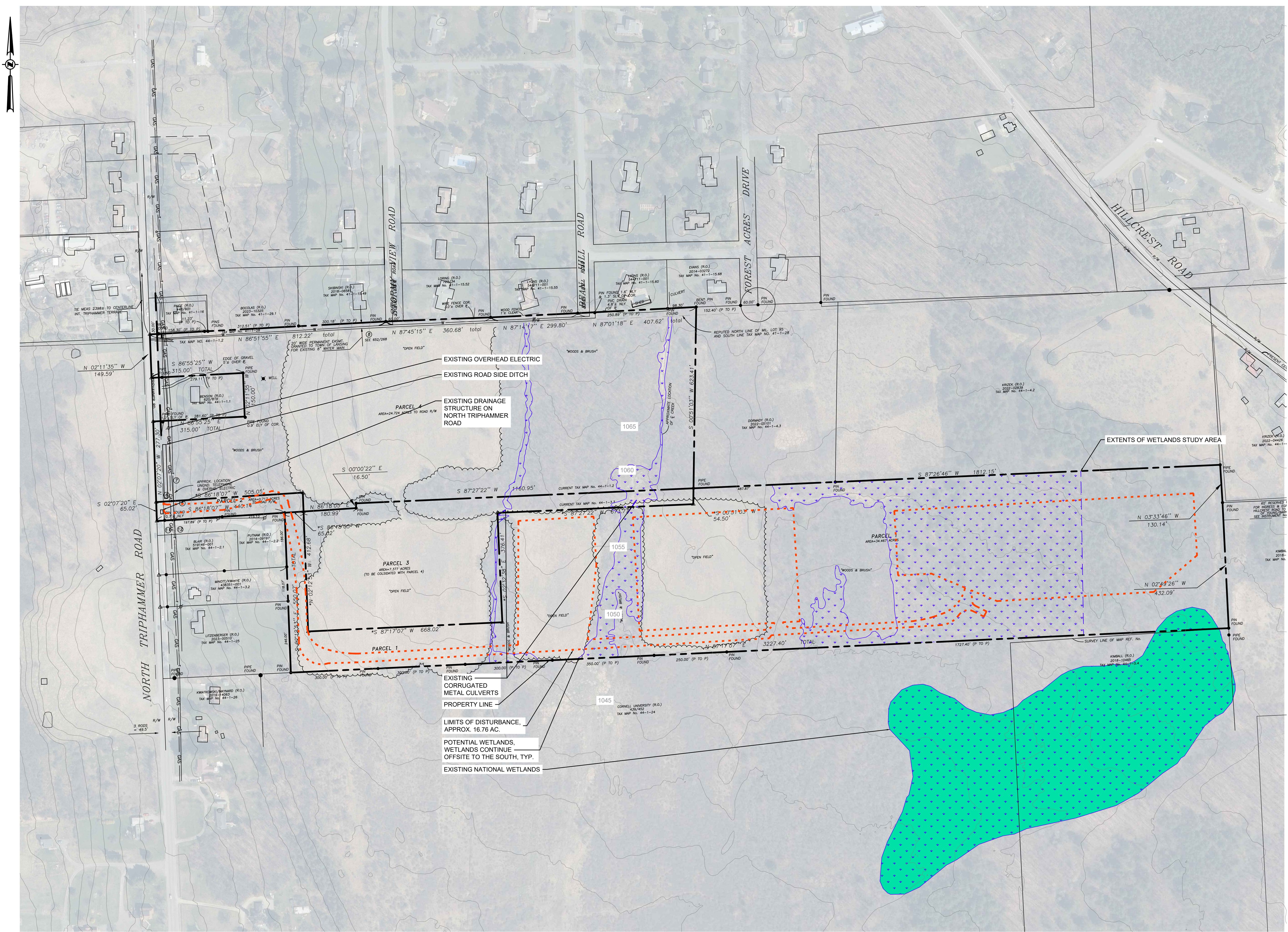
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GENERAL NOTES AND LEGEND INFORMATION

STATE OF NEW YORK
 MICHAEL SCARFONE
 LICENSED PROFESSIONAL ENGINEER
 103321

Drawing Number: **C-001**
 Sheet **2** of **11**
 PWGC Project Number: **DRS2404**

Unauthorised alteration or addition to this drawing and related documents is a violation of Section 7209 of the New York State Education Law.



PWGC
 CLIENT DRIVEN SOLUTIONS
 P.W. GROSSER CONSULTING INC.

630 Johnson Avenue - Suite 7
 Bohemia - NY - 11716-2618
 Phone: (631) 589-6353 - Fax: (631) 589-8705
 E-mail: INFO@PWGROSSER.COM

CONSULTANTS

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3	CLIENT REVIEW	07/29/2024
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Number	Revision Description	Revision Date

Designed By: _____ Date Submitted: _____
 Drawn By: **HLW/RPV** Date Created: **03/28/2024**
 Approved By: **MTS** Scale: **1" = 150'**

Client:
NY LANSING II, LLC
P.O. BOX 384
CALLICOON, NY 12783

Project:
NORTH TRIPHAMMER ROAD
SOLAR FARM CONCEPTUAL
SITE PLAN

Project Address:
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TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

County Tax Map Number: **44-1.1.2 & 44-1.3.3** Contract Number: _____
 Regulatory Reference Number: _____

File of Drawing: _____

**EXISTING
 CONDITIONS
 PLAN**



Drawing Number:
C-100
 Sheet **3** of **11**
 PWGC Project Number:
DRS2404

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CONSULTANTS
SYSTEM SUMMARY

MODULE:
MANUFACTURER: HANWHA
MODEL: Q.PEAK DUO XL-G11.3 / BFG
MODULE OUTPUT POWER: 585 WP
STRING SIZE: 24
NUMBER OF STRINGS: 252
MODULE QUANTITY: 6,048
PV SYSTEM OUTPUT: 3,538.08 KWP DC

COMBINER BOX:
CB QTY/INPUTS (QTY/INP): 11 CBs (6 INPUTS)
12 CBs (5 INPUTS)

INVERTER:
MANUFACTURER: SUNGROW
MODEL: SG3150 UD-MV
QUANTITY/RATING: 1 / 3,000 KW (LIMITED)
PV SYSTEM OUTPUT: 3,000 KW AC
DC SYSTEM VOLTAGE: 1,500 V

MV INTERCONNECTION:
TRANSFORMER QTY/RATING: 2 / 3,425 KW
INTERCON. VOLTAGE: 34.5 KV

RACKING:
MANUFACTURER: TBD
CONFIGURATION: SAT - 1 MODULE PORTRAIT
TILT: ±55°
AZIMUTH: 177°

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Drawn By: **HLW/RPV** Date Created: **03/28/24**
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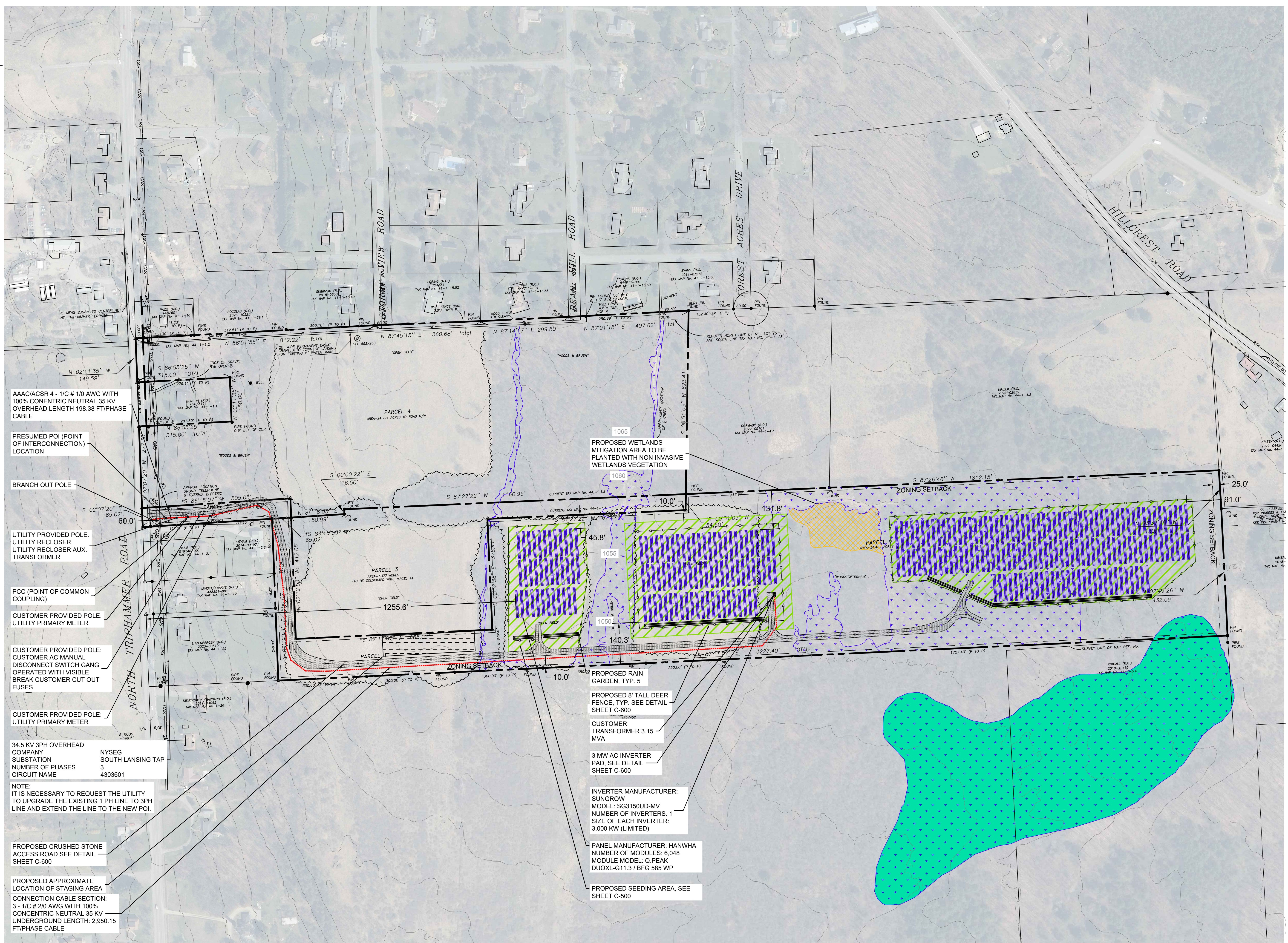
Project:
**NORTH TRIPHAMMER ROAD
SOLAR FARM CONCEPTUAL
SITE PLAN**

Project Address:
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TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK**

County Tax Map Number: **44-1-1.2 & 44-1-3.3** Cont'd Number: ---
Regulatory Reference Number: ---
File of Drawing: ---

**CONCEPTUAL
SITE LAYOUT
PLAN**

Drawing Number: **C-101**
Sheet **4** of **11**
PWGC Project Number: **DRS2404**

AAAC/ACSR 4 - 1/C # 1/0 AWG WITH 100% CONCENTRIC NEUTRAL 35 KV OVERHEAD LENGTH 198.38 FT/PHASE CABLE

PRESUMED POI (POINT OF INTERCONNECTION) LOCATION

BRANCH OUT POLE

UTILITY PROVIDED POLE: UTILITY RECLOSER UTILITY RECLOSER AUX. TRANSFORMER

PCC (POINT OF COMMON COUPLING)

CUSTOMER PROVIDED POLE: UTILITY PRIMARY METER

CUSTOMER PROVIDED POLE: CUSTOMER AC ANNUAL DISCONNECT SWITCH GANG OPERATED WITH VISIBLE BREAK CUSTOMER CUT OUT FUSES

CUSTOMER PROVIDED POLE: UTILITY PRIMARY METER

34.5 KV 3PH OVERHEAD COMPANY SUBSTATION NYSEG SOUTH LANSING TAP NUMBER OF PHASES 3 CIRCUIT NAME 4303601

NOTE: IT IS NECESSARY TO REQUEST THE UTILITY TO UPGRADE THE EXISTING 1 PH LINE TO 3PH LINE AND EXTEND THE LINE TO THE NEW POI.

PROPOSED CRUSHED STONE ACCESS ROAD SEE DETAIL SHEET C-600

PROPOSED APPROXIMATE LOCATION OF STAGING AREA

CONNECTION CABLE SECTION: 3 - 1/C # 2/0 AWG WITH 100% CONCENTRIC NEUTRAL 35 KV UNDERGROUND LENGTH: 2,950.15 FT/PHASE CABLE

PROPOSED WETLANDS MITIGATION AREA TO BE PLANTED WITH NON INVASIVE WETLANDS VEGETATION

PROPOSED RAIN GARDEN, TYP. 5

PROPOSED 8' TALL DEER FENCE, TYP. SEE DETAIL SHEET C-600

CUSTOMER TRANSFORMER 3.15 MVA

3 MW AC INVERTER PAD, SEE DETAIL SHEET C-600

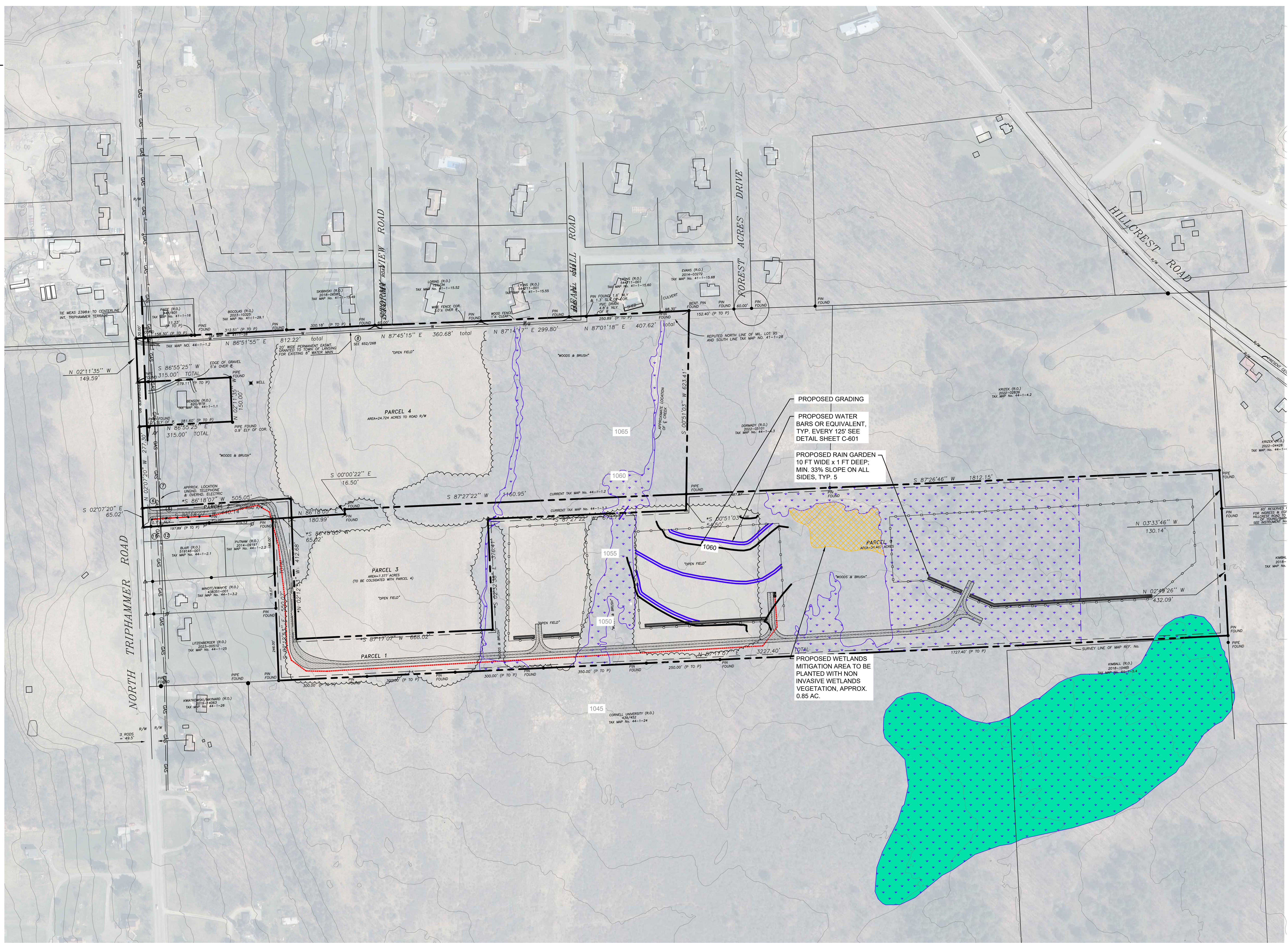
INVERTER MANUFACTURER: SUNGROW MODEL: SG3150UD-MV NUMBER OF INVERTERS: 1 SIZE OF EACH INVERTER: 3,000 KW (LIMITED)

PANEL MANUFACTURER: HANWHA NUMBER OF MODULES: 6,048 MODULE MODEL: Q.PEAK DUOXL-G11.3 / BFG 585 WP

PROPOSED SEEDING AREA, SEE SHEET C-500

CONSULTANTS

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Drawn By	HLW/RPV	Date Created	03/28/2024
Approved By	MTS	Scale	1" = 150'

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CALLICOON, NY 12783

Project:
**NORTH TRIPHAMMER ROAD
SOLAR FARM CONCEPTUAL
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Project Address:
**NORTH TRIPHAMMER ROAD
TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK**


County Tax Map Number: 44-1-1.2 & 44-1-3.3
Regulatory Reference Number: ...

**CONCEPTUAL
GRADING AND
DRAINAGE PLAN**

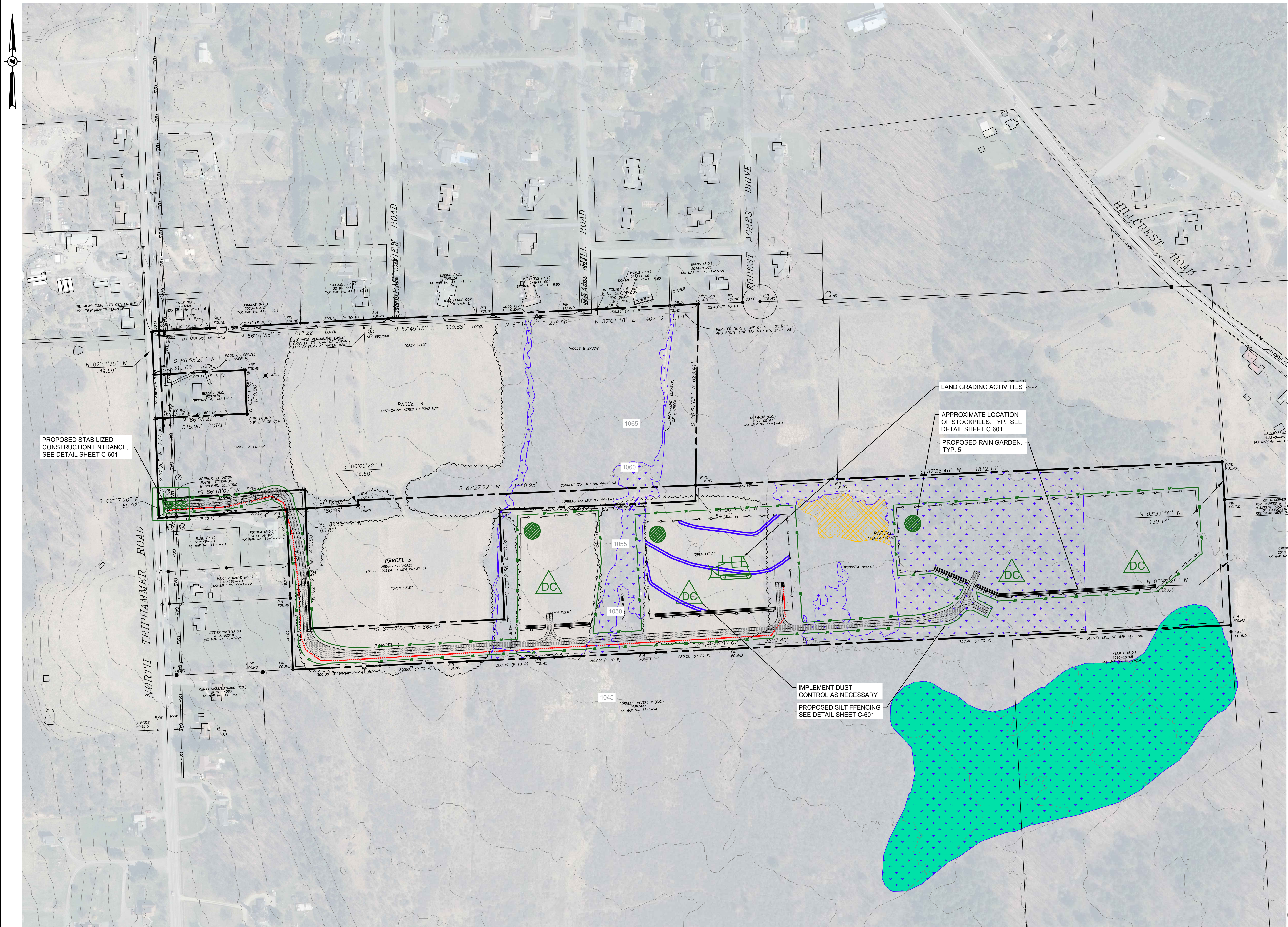
Drawing Number:
C-200

Sheet
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PWGC Project Number:
DRS2404



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HLW/RPV	03/28/24

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**NORTH TRIPHAMMER ROAD
SOLAR FARM CONCEPTUAL
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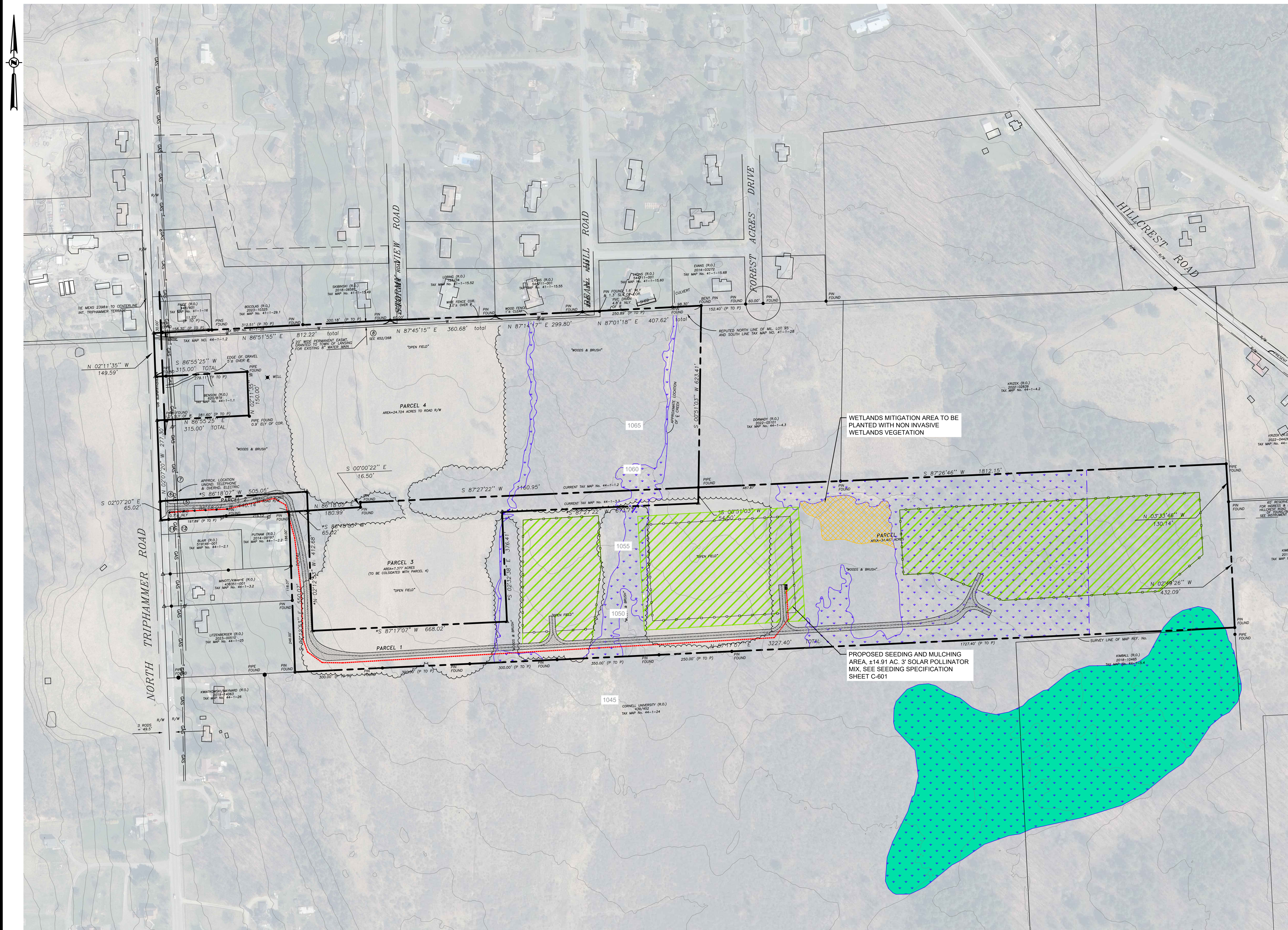
Project Address:
**NORTH TRIPHAMMER ROAD
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TOMPKINS COUNTY, NEW YORK**

County Tax Map Number: **44-1-1.2 & 44-1-3.3**
Regulatory Reference Number: ---

**CONCEPTUAL
EROSION AND SED.
CONTROL PLAN**

Drawing Number: **C-201**
Sheet: **6** of **11**
PRC Project Number: **DRS2404**

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**CONCEPTUAL
LANDSCAPING
PLAN**



Drawing Number:
C-500

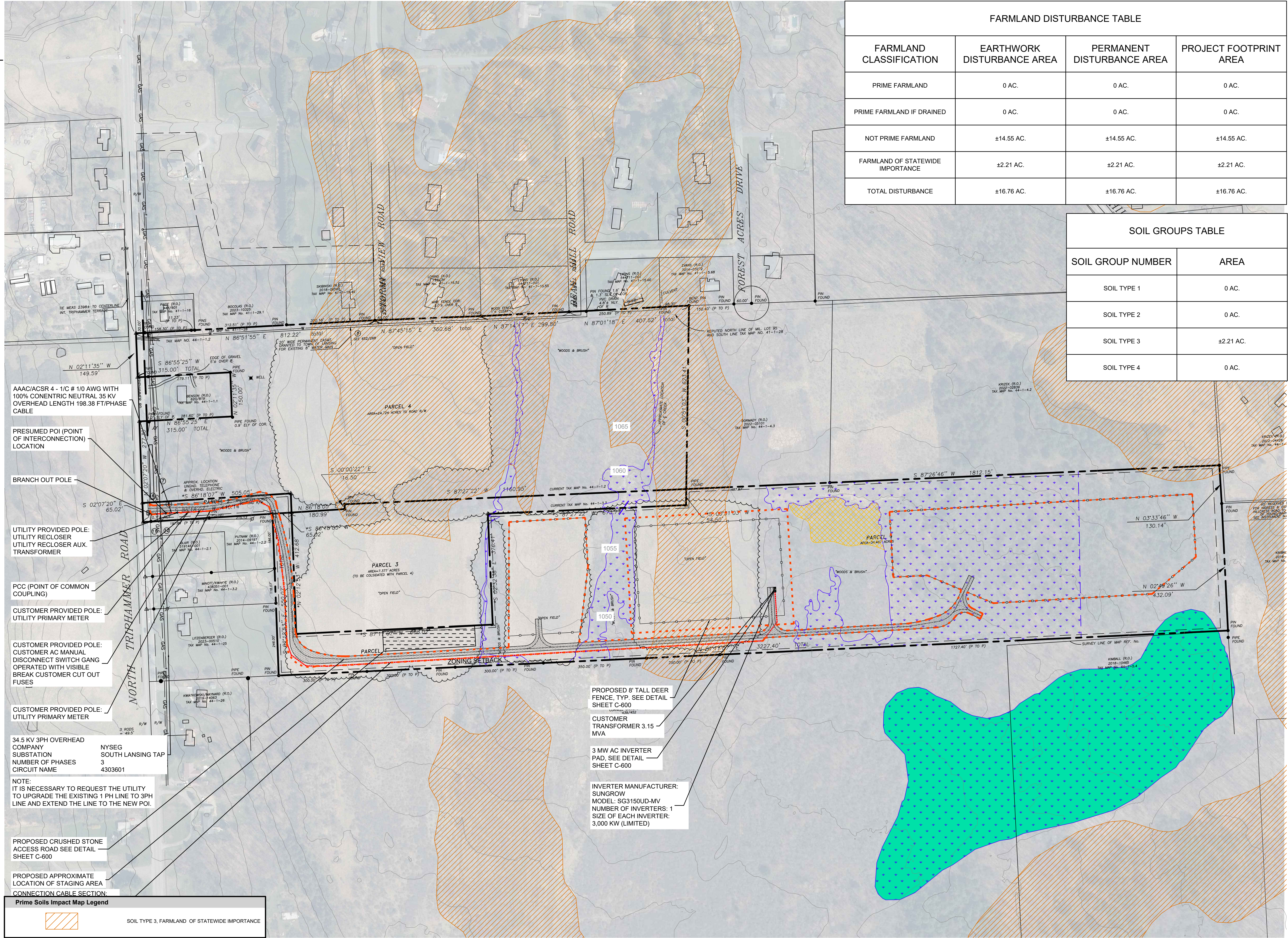
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PWGC Project Number:
DRS2404

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CONSULTANTS

FARMLAND DISTURBANCE TABLE			
FARMLAND CLASSIFICATION	EARTHWORK DISTURBANCE AREA	PERMANENT DISTURBANCE AREA	PROJECT FOOTPRINT AREA
PRIME FARMLAND	0 AC.	0 AC.	0 AC.
PRIME FARMLAND IF DRAINED	0 AC.	0 AC.	0 AC.
NOT PRIME FARMLAND	±14.55 AC.	±14.55 AC.	±14.55 AC.
FARMLAND OF STATEWIDE IMPORTANCE	±2.21 AC.	±2.21 AC.	±2.21 AC.
TOTAL DISTURBANCE	±16.76 AC.	±16.76 AC.	±16.76 AC.

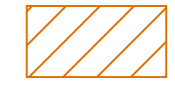
SOIL GROUPS TABLE	
SOIL GROUP NUMBER	AREA
SOIL TYPE 1	0 AC.
SOIL TYPE 2	0 AC.
SOIL TYPE 3	±2.21 AC.
SOIL TYPE 4	0 AC.



- AAAC/ACSR 4 - 1/C # 1/0 AWG WITH 100% CONCENTRIC NEUTRAL 35 KV OVERHEAD LENGTH 198.38 FT/PHASE CABLE
- PRESUMED POI (POINT OF INTERCONNECTION) LOCATION
- BRANCH OUT POLE
- UTILITY PROVIDED POLE: UTILITY RECLOSER UTILITY RECLOSER AUX. TRANSFORMER
- PCC (POINT OF COMMON COUPLING)
- CUSTOMER PROVIDED POLE: UTILITY PRIMARY METER
- CUSTOMER PROVIDED POLE: CUSTOMER AC MANUAL DISCONNECT SWITCH GANG OPERATED WITH VISIBLE BREAK CUSTOMER CUT OUT FUSES
- CUSTOMER PROVIDED POLE: UTILITY PRIMARY METER
- 34.5 KV 3PH OVERHEAD COMPANY SUBSTATION NYSEG SOUTH LANSING TAP NUMBER OF PHASES 3 CIRCUIT NAME 43033601
- NOTE: IT IS NECESSARY TO REQUEST THE UTILITY TO UPGRADE THE EXISTING 1 PH LINE TO 3PH LINE AND EXTEND THE LINE TO THE NEW POI.
- PROPOSED CRUSHED STONE ACCESS ROAD SEE DETAIL SHEET C-600
- PROPOSED APPROXIMATE LOCATION OF STAGING AREA CONNECTION CABLE SECTION:

- PROPOSED 8' TALL DEER FENCE, TYP. SEE DETAIL SHEET C-600
- CUSTOMER TRANSFORMER 3.15 MVA
- 3 MW AC INVERTER PAD, SEE DETAIL SHEET C-600
- INVERTER MANUFACTURER: SUNGROW MODEL: SG3150UD-MV NUMBER OF INVERTERS: 1 SIZE OF EACH INVERTER: 3,000 KW (LIMITED)

Prime Soils Impact Map Legend

	SOIL TYPE 3, FARMLAND OF STATEWIDE IMPORTANCE
---	---

7		
6		
5		
4		
3	CLIENT REVIEW	07/29/2024
2	WETLANDS UPDATE	07/24/2024
1	CLIENT REVIEW	04/05/2024
Number	Revision Description	Revision Date
Designed By		Date Submitted
Drawn By	HLW/RPV	Date Created 03/28/24
Approved By	MTS	Scale 1" = 150'

Client: NY LANSING II, LLC
P.O. BOX 384
CALLICOON, NY 12783

Project: NORTH TRIPHAMMER ROAD
SOLAR FARM CONCEPTUAL
SITE PLAN

Project Address: NORTH TRIPHAMMER ROAD
TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

County Tax Map Number: 44-1.1.2 & 44-1.3.3
Regulatory Reference Number: ...

File of Drawing: ...

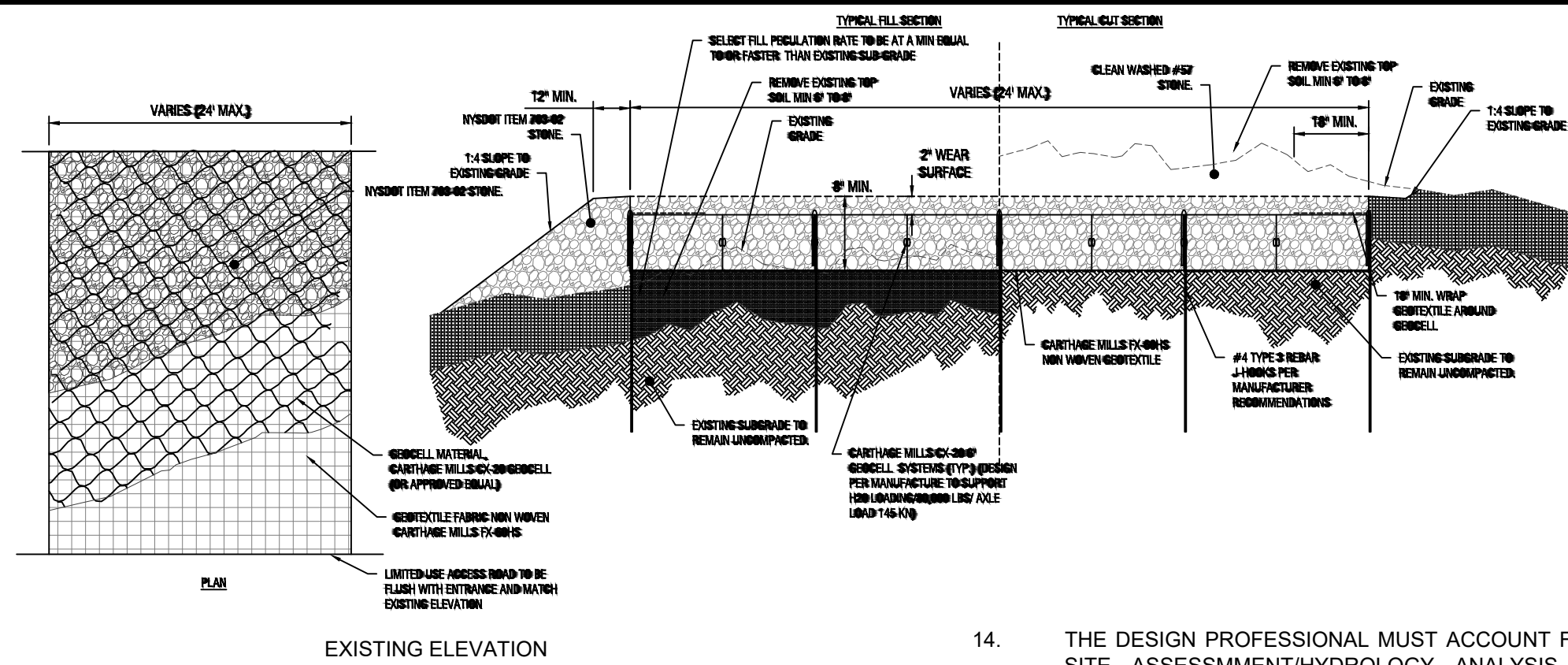
**PRIME SOILS
IMPACT MAP**

State of New York
MICHAEL SCANNON
103321
LICENSED PROFESSIONAL ENGINEER

C-501

Sheet 8 of 11
PWGC Project Number: DR52404

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GENERAL NOTES

1. PROVIDE A 4800 LB/FT ENHANCED WOVEN GEOTEXTILE SEPARATION LAYER AND INSTALL PER MANUFACTURER RECOMMENDATIONS INCLUDING OVERLAPS BASED ON SUB GRADE CBR.
2. THE GEOCELL SHALL BE CONNECTED WITH TYP 3 REBAR J HOOKS.
3. PROVIDE TYP 3 ANCHORS TO KEEP PANELS OPEN FOR INFILL AS REQUIRED
4. GEOCELL INFILL SHALL BE 3/4 TO 1.5" CRUSHED AGGREGATE WITH FINE LIMITED TO LESS THAN 10% TO ALLOW FREE DRAINAGE.
5. LIMIT THE DROP OF INFILL TO PREVENT PANEL DISTORTION.
6. ASSUME HS-20 LOADING

PERMEABLE ACCESS ROAD GENERAL NOTES

1. 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, ETC.)
2. LIMITED USE PERVIOUS ACCESS ROAD IS LIMITED TO LOW IMPACT IRREGULAR MAINTENANCE 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 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 6" TO 8" TOPSOIL AS DIRECTED BY ENGINEER.
7. REMOVE REFUSE SOILS AS DIRECTED BY THE PROJECT ENGINEER. DO NOT PLACE IN AN ARE THAT IMPEDES STORMWATER DRAINAGE.
8. ROADWAY WIDTH TO BE DETERMINED BY CLIENT.
9. THE LIMITED USE PERVIOUS ACCESS ROAD CROSS SLOPE SHALL BE 0% IN MOST CASES AND SHOULD NOT EXCEED 5%. THE LONGITUDINAL SLOPE OF THE ACCESS DRIVE SHOULD NOT EXCEED 5%.
10. 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.
11. 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 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.
12. 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.
13. PROJECTS SHOULD AVOID INSTALLATION OF THE LIMITED USE PERVIOUS ACCESS ROAD IN POORLY DRAINED AREAS, HOWEVER IF NO A

GRAVEL ACCESS ROAD DETAIL

NOT TO SCALE

14. 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.

GEOCELL MATERIAL NOTES:

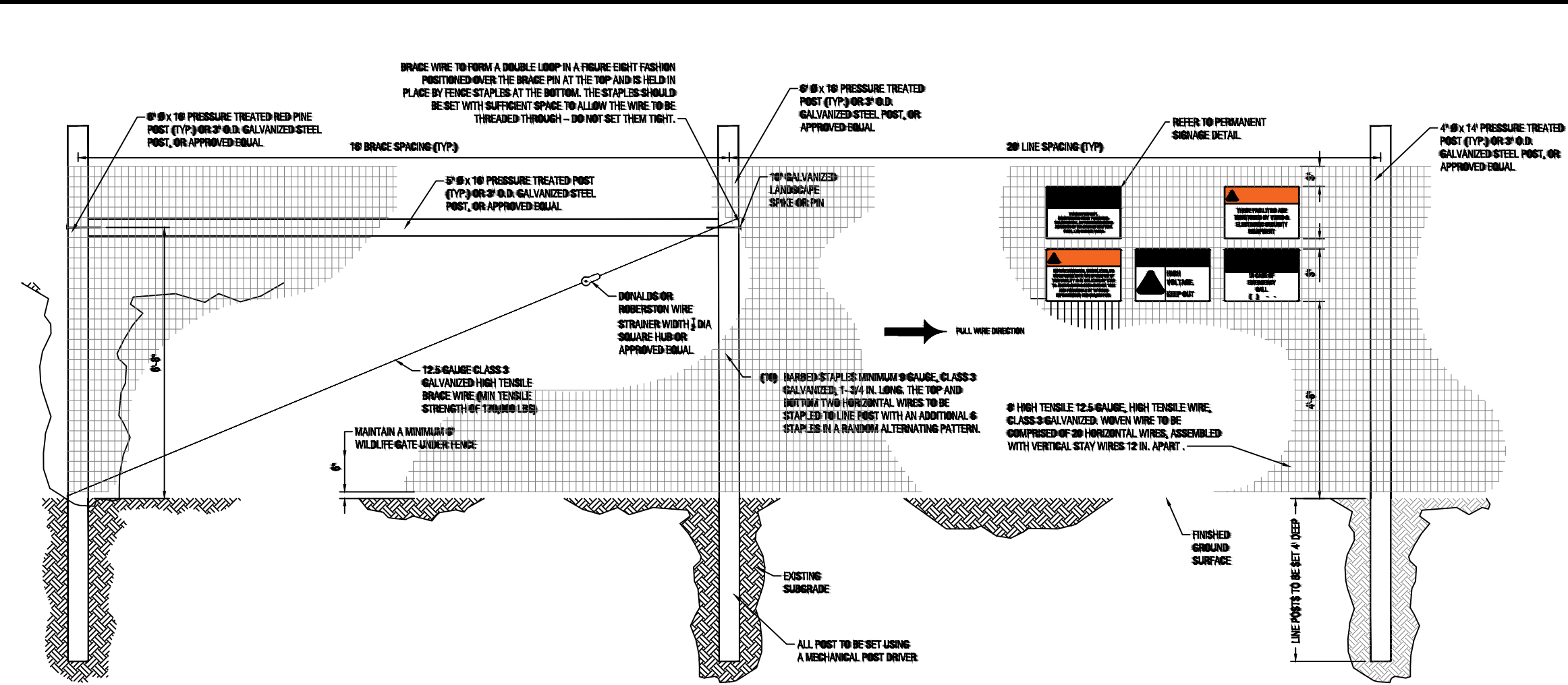
1. THE GEOCELL, OR COMPARABLE PRODUCT, IS SUGGESTED FOR USE ON ROAD PROFILES EXCEEDING 5%.
2. THE GEOCELL PRODUCT IS INTENDED TO LIMIT SHIFTING STONE MATERIAL DURING USE.
3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. WHERE REQUIRED, A NATIVE SOIL WEDGE SHALL BE PLACED TO ACCOMMODATE ROAD CROSS SLOPE OF 2%. NATIVE SOIL SHALL BE COMPACTED TO MATCH EXISTING SOIL CONDITIONS.
5. 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.
6. GEOCELL SYSTEM SHALL BE CARTHAGE MILLS CX-20 6" HS20 LOADING OR APPROVED EQUAL. GEOCELL SHALL BE DESIGNED BASED ON EXISTING SOIL CONDITIONS AND PROPOSED HAUL ROAD SLOPES.
7. 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.
8. THE TOP EDGES OF ADJACENT CELL WALLS SHALL BE FLUSH WHEN CONNECTING. ALIGN THE I-SLOTS FOR INTERLEAF AND END TO END CONNECTIONS. THE GEOCELL PANELS SHALL BE CONNECTED WITH TYPE 3 J HOOKS AT EACH INTERLEAF AND END TO END CONNECTIONS. REFER TO MANUFACTURER'S SPECIFICATION FOR PROPER INSTALLATION, TYING AND CONNECTIONS.
9. PREPARE THE SUBGRADE AS SHOWN ON THE CONSTRUCTION DRAWINGS.
10. COMPACT THE SOIL TO A MINIMUM 95% STANDARD PROCTOR.
11. VERIFY THAT THE SUBGRADE STRENGTH, IF UNACCEPTABLE, THE SOILS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
12. WHERE REQUIRED, PROVIDE GEOTEXTILE SEPARATION LAYER.
13. EXPAND THE GEOCELL SECTIONS INTO POSITION AND CONNECT THE END TO END INTERLEAF CONNECTIONS WITH ATRA KEYS.
14. PLACE THE SPECIFIED INFILL MATERIAL TO 2 INCHES ABOVE CELL WALLS AND COMPACT TO A MINIMUM 95% STANDARD PROCTOR.
15. PROVIDE ADDITIONAL SURFACE MATERIAL AS SPECIFIED.

BASIS OF DESIGN: CARTHAGE MILL

WOVEN GEOTEXTILE MATERIAL NOTES:

1. GEOTEXTILE MATERIAL TO B CARTHAGE MILL FX-60HS OR APPROVED EQUAL.

BASIS OF DESIGN: CARTHAGE MILLS

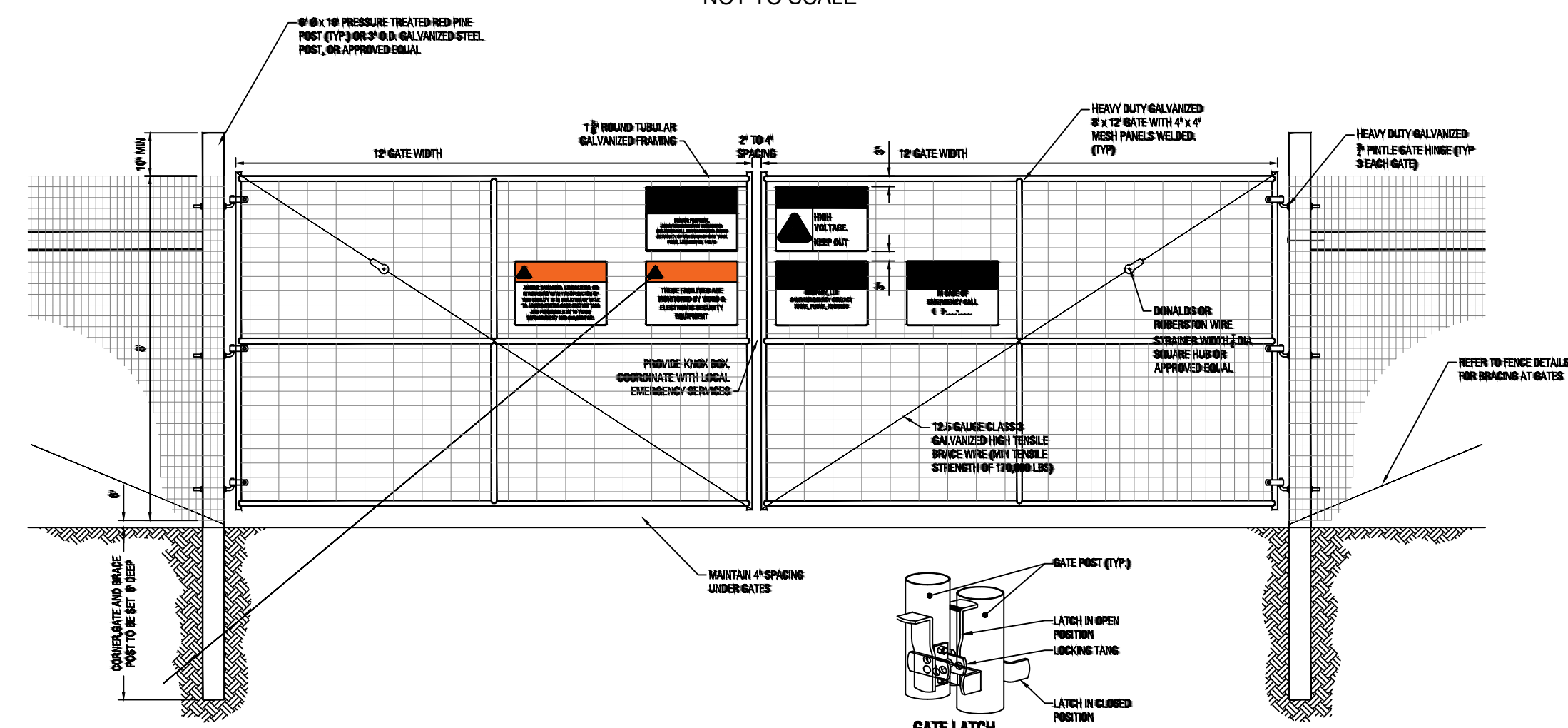


BRACING NOTES

1. BRACING IS REQUIRED AT ALL CORNER, END GATE, AND PULL ASSEMBLIES IN THE FENCE.
2. CORNERS ARE REQUIRED AT ALL POINTS WHERE THE FENCE ALIGNMENT CHANGES 15 DEGREES OR MORE THREE, 6 IN. X 16 FT. VERTICAL POSTS AND TWO 5 IN. X 16 FT. HORIZONTAL BRACES ARE REQUIRED FOR EACH CORNER.
3. END BRACING IS REQUIRED WHERE THE FENCE ENDS AT A BUILDING OR ON EACH SIDE OF A GATE OPENING. TWO, 6 IN. X 16 FT. VERTICAL POSTS AND ONE 5 IN. X 16 FT. HORIZONTAL BRACE ARE REQUIRED FOR EACH END BRACE.
4. PULL ASSEMBLIES ARE REQUIRED IN STRAIGHT SECTIONS OF FENCE SO THAT THE MAXIMUM DISTANCE BETWEEN CORNERS DOES NOT EXCEED 1,320 DT. TWO 6 IN. X 16 FT. VERTICAL POSTS AND ONE 5 IN. X 16 FT. BRACE ARE REQUIRED
5. DOUBLE BRACES (FIGURE 4) SHOULD BE USED ON EACH END FOR STRAIGHT FENCE LINES EXCEEDING 1,000 FT. DOUBLE END BRACES REQUIRE THREE 6 IN. X 16 FT. HORIZONTAL BRACES.

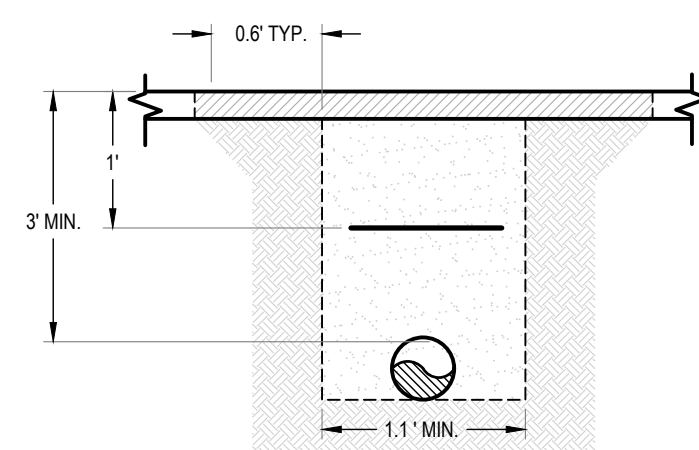
8-FT DEER FENCE DETAIL

NOT TO SCALE



8-FT DEER FENCE GATE DETAIL

NOT TO SCALE

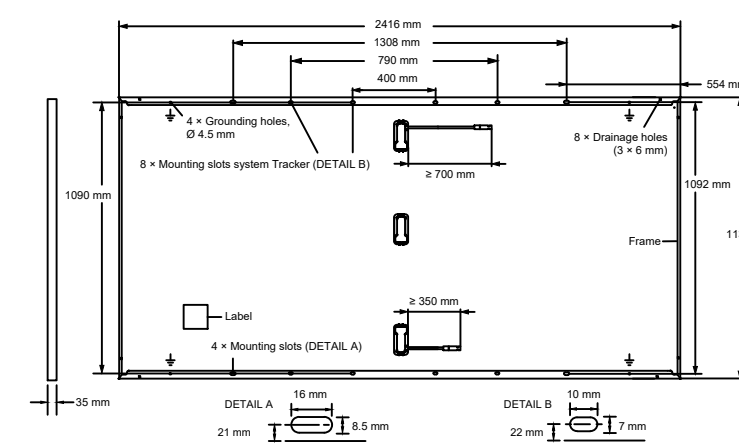


ELECTRICAL TRENCH DETAIL

NOT TO SCALE

MECHANICAL SPECIFICATION

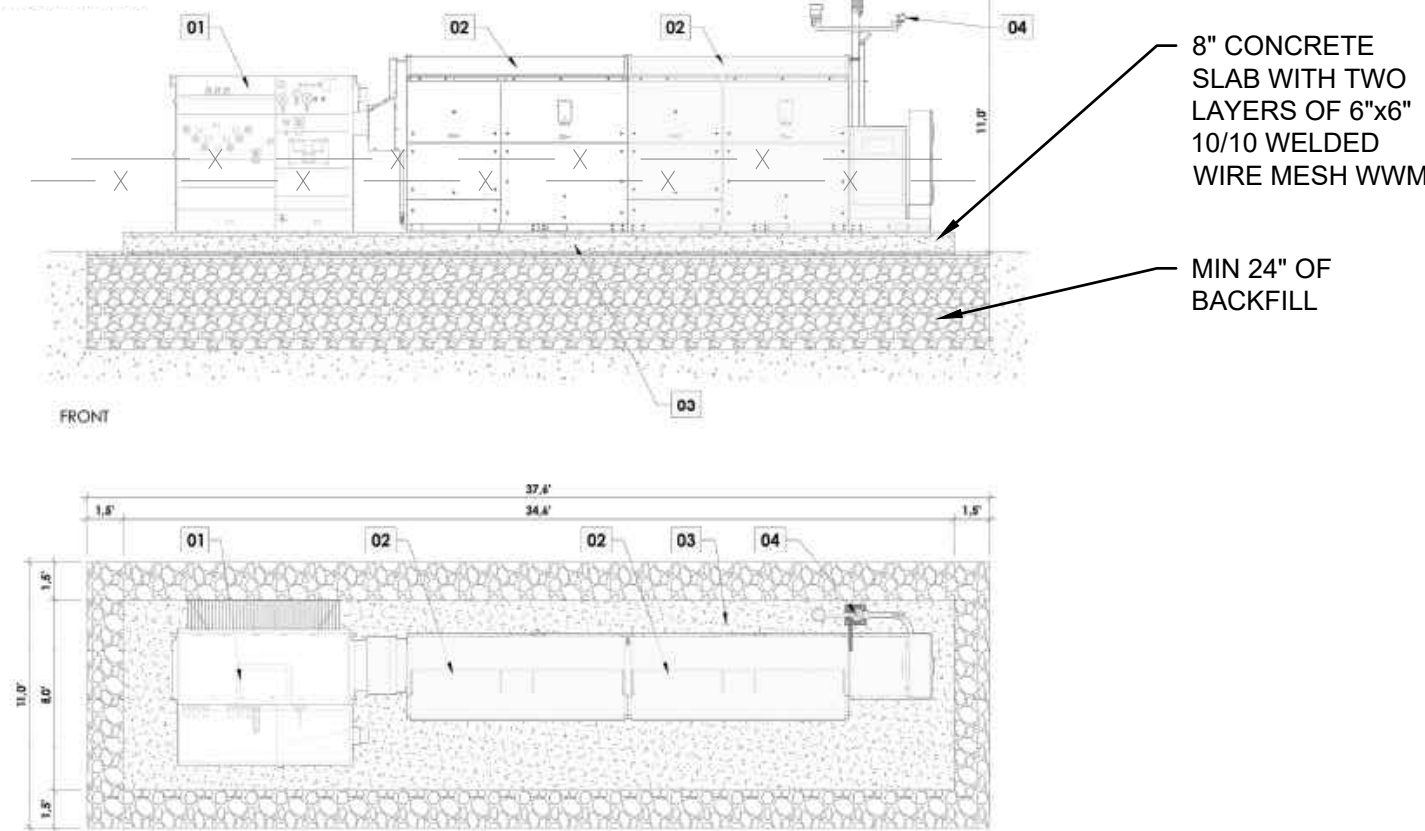
Format	2416 mm x 1134 mm x 35 mm (including frame)
Weight	34.4 kg
Front Cover	2 mm thermally pre-stressed glass with anti-reflection technology
Back Cover	2 mm semi-tempered glass
Frame	Anodised aluminium
Cell	6 x 26 monocrystalline Q ANTUM solar half cells
Junction box	53-101 mm x 32-60 mm x 15-18 mm Protection class IP67, with bypass diodes
Cable	4 mm² Solar cable; (+) ≥ 700 mm, (-) ≥ 350 mm
Connector	Stäubli MC4-Evo2, Hanwha Q CELLS HQC4; IP68



SOLAR PANEL MECHANICAL SPECIFICATION DETAIL

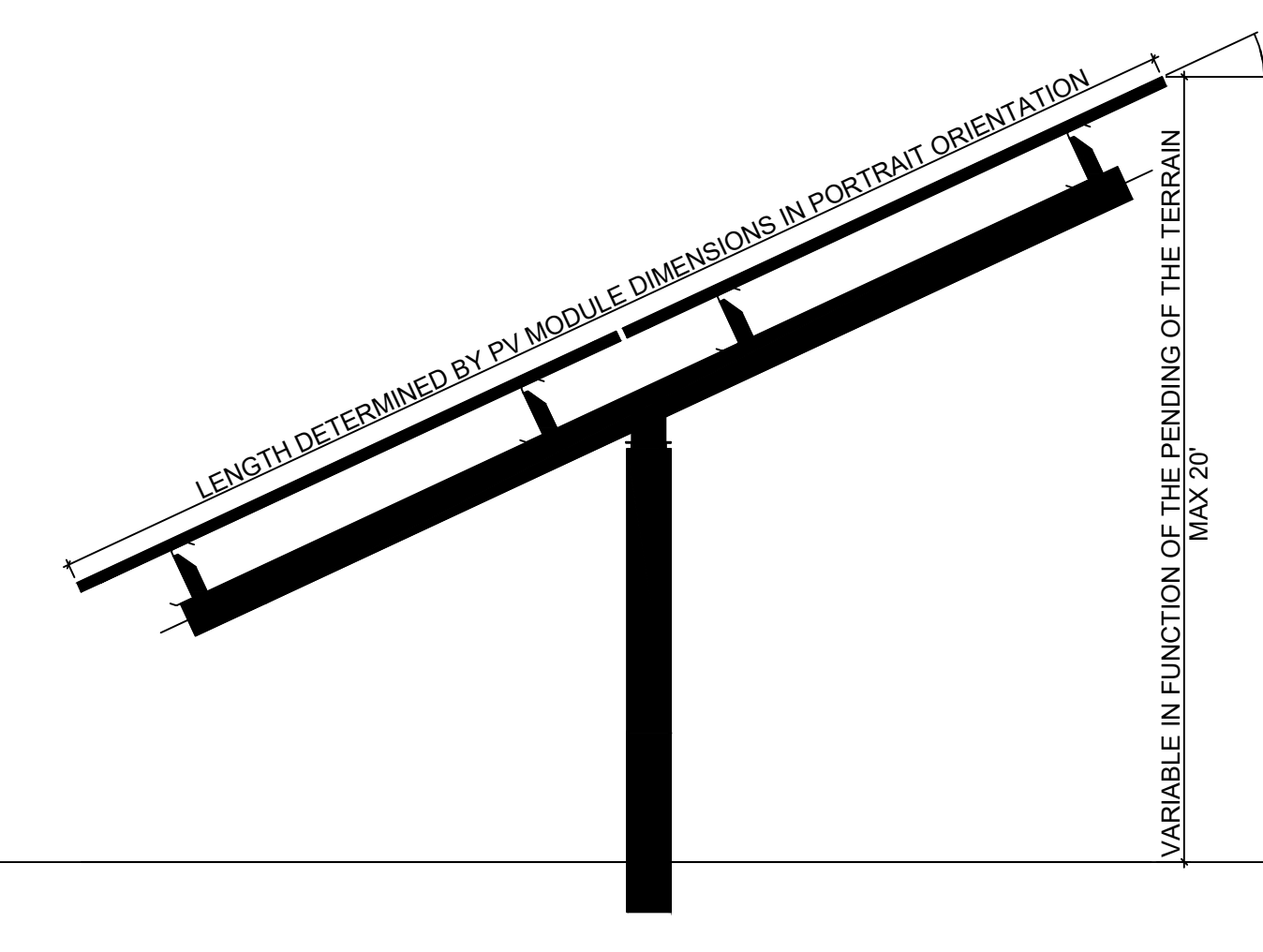
NOT TO SCALE

- 01 - TRANSFORMER
- 02 - INVERTER
- 03 - REINFORCED CONCRETE SLAB PSI 3500
- 04 - AUXILIARY EQUIPMENT PAD



CONCRETE EQUIPMENT PAD DETAIL

NOT TO SCALE



TYPICAL RACK SECTION DETAIL

NOT TO SCALE



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E-mail: INF@PWGROSSER.COM

CONSULTANTS

FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION

7		
6		
5		
4		
3	CLIENT REVIEW	07/28/2024
2	WETLANDS UPDATE	07/24/2024
1	CLIENT REVIEW	04/05/2024
Number	Revision Description	Revision Date

Designed By: _____ Date Submitted: _____
 Drawn By: HLW/RPV Date Created: 03/28/24
 Approved By: MTS Scale: AS NOTED

Client:
NY LANSING II, LLC
 P.O. BOX 384
 CALLICOON, NY 12783

NORTH TRIPHAMMER ROAD SOLAR FARM CONCEPTUAL SITE PLAN

Project Address:
NORTH TRIPHAMMER ROAD
TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

County Tax Map Number: 44-1-1.2 & 44-1-3.3
 Regulatory Reference Number: ---

Title of Drawing: ---

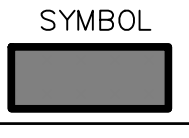
SITE DETAILS

State of New York
 MICHAEL SCARVIN
 103321
 LICENSED PROFESSIONAL ENGINEER

Drawing Number: **C-600**
 Sheet 9 of 11
 Project Number: DRS2404

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STANDARD AND SPECIFICATIONS FOR TEMPORARY CONSTRUCTION AREA SEEDING FOR WINTER SHUTDOWN



- CONSTRUCTION SPECIFICATIONS**
1. THE AREA MUST BE ROUGH GRADED AND SLOPES PHYSICALLY STABLE. LARGE DEBRIS AND ROCKS ARE USUALLY REMOVED.
 2. SEED BED MUST BE SEEDED WITHIN 24 HOURS OF DISTURBANCE OR SCARIFICATION OF THE SOIL SURFACE WILL BE NECESSARY PRIOR TO SEEDING.
 3. FERTILIZER OR LIME ARE NOT TYPICALLY USED FOR TEMPORARY SEEDINGS.
 4. LATE FALL OR EARLY WINTER, THEN SEED CERTIFIED 'ARROSTOOK' WINTER RYE AT 100 LBS. PER ACRE (2.5 LBS./1000 SQ. FT.).
 5. HYDRO-SEEDING METHOD TO BE USED WHICH WILL PROVIDE UNIFORM APPLICATION OF SEED TO THE AREA AND RESULT IN RELATIVELY GOOD SOIL TO SEED CONTACT.
 6. MULCH THE AREA WITH WOOD FIBER HYDRO-MULCH OR OTHER SPRAYABLE PRODUCTS APPROVED FOR EROSION CONTROL.

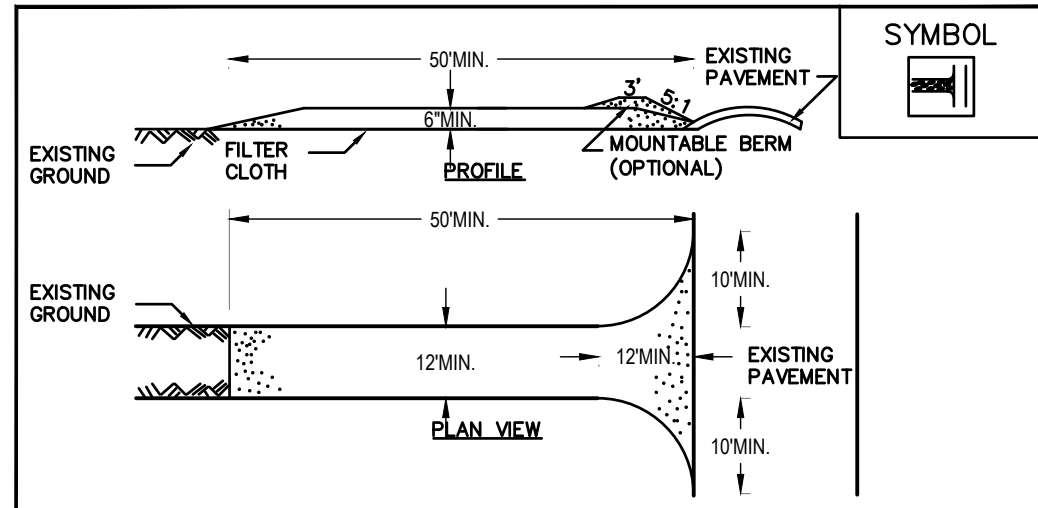
STANDARD AND SPECIFICATIONS FOR LOOSE STABILIZATION BLANKETS FOR WINTER SHUTDOWN

HYDRAULICALLY APPLIED BLANKETS
 THESE BLANKETS ARE FORMED BY MIXING DIFFERENT TYPES OF MATERIALS WITH WATER AND ARE THEN APPLIED USING STANDARD HYDROSEEDING EQUIPMENT. THESE BLANKETS SHOULD NOT BE USED IN AREAS OF CONCENTRATED FLOW SUCH AS DITCHES AND CHANNELS.
FLEXIBLE GROWTH MEDIUM (FGM) - THIS METHOD HAS THE ADDED COMPONENT OF 1/2 INCH LONG, CRIMPED MANMADE FIBERS WHICH ADD A MECHANICAL BOND TO THE CHEMICAL BOND PROVIDED BY BRNS. THIS INCREASES THE BLANKET'S RESISTANCE TO BOTH HANDS OF IMPACT AND EROSION DUE TO RUNOFF. UNLIKE BRNS, A FLEXIBLE GROWTH MEDIUM TYPICALLY DOES NOT REQUIRE A CURING TIME TO BE EFFECTIVE. PROPERLY APPLIED, AN FGM IS ALSO VERY EFFECTIVE.
 THERE IS NO NEED TO SMOOTH THE SLOPE PRIOR TO APPLICATION. IN FACT SOME ROUGHENING OF THE SURFACE (EITHER NATURAL OR MECHANICALLY INDUCED) IS PREFERABLE.
 HOWEVER, LARGE ROCKS (>9 INCHES) AND EXISTING RILLS SHOULD BE REMOVED PRIOR TO APPLICATION. MIXING AND APPLICATION RATES SHOULD FOLLOW MANUFACTURER'S RECOMMENDATIONS.

- CONSTRUCTION SPECIFICATIONS**
1. FOMS ARE TYPICALLY APPLIED IN TWO STAGES. UNLESS SPECIFICALLY RECOMMENDED TO BE APPLIED IN ONE APPLICATION BY THE MANUFACTURER, THE SEED MIXTURE AND SOIL AMENDMENTS SHOULD BE APPLIED FIRST.
 2. AFTER THE SEED MIXTURE IS APPLIED, THE HYDRAULICALLY APPLIED BLANKETS SHOULD BE SPRAYED OVER THE AREA AT THE REQUIRED APPLICATION RATE, ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

U.S. DEPARTMENT OF AGRICULTURE
 NATURAL RESOURCES CONSERVATION SERVICE
 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SEEDING/STABILIZATION BLANKET SPECIFICATIONS

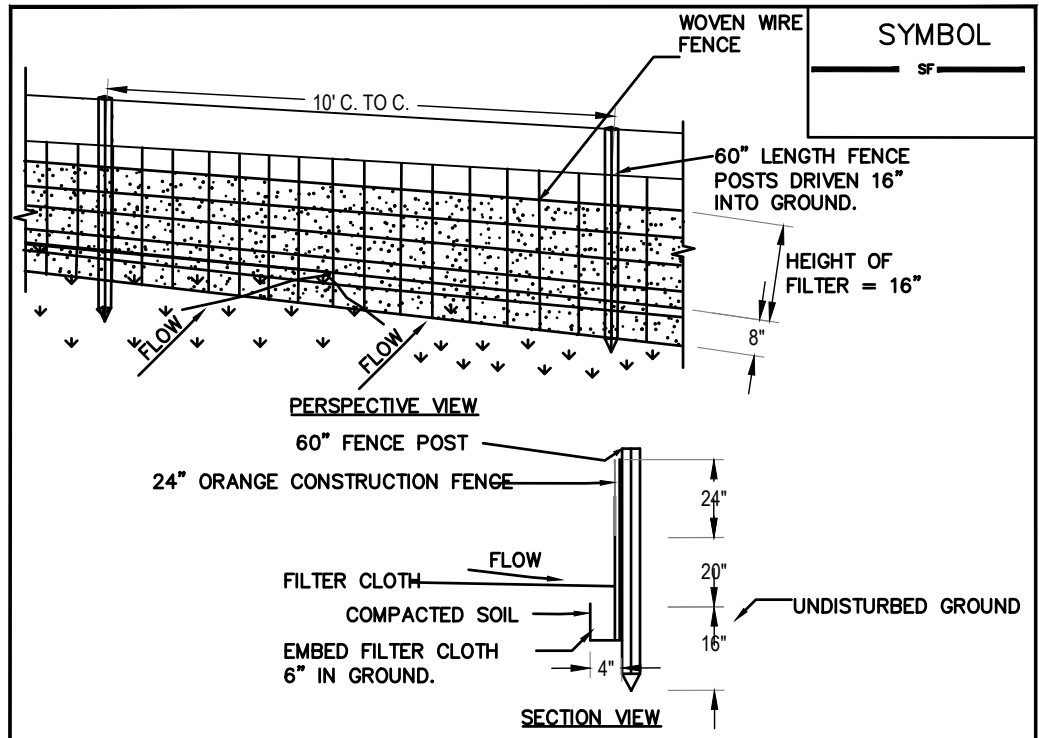


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

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 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH AND ORANGE CONSTRUCTION FENCING TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN.
3. WHEN TWO SECTIONS OF FILTER CLOTH AND ORANGE CONSTRUCTION FENCING ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILUNKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOTAF, ENVROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

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 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SILT FENCE

CONSTRUCTION SPECIFICATIONS

1. CLEAN AND STRIP ROADED AND PARKING AREAS OF ALL VEGETATION, ROOTS AND OTHERS OBJECTIONABLE MATERIAL.
2. LOCATE PARKING AREAS ON NATURALLY FLAT AREAS AS AVAILABLE. KEEP GRADES SUFFICIENT FOR DRAINAGE, BUT NOT MORE THAN 2 TO 3 PERCENT.
3. PROVIDE SURFACE DRAINAGE AND DIVERT EXCESS RUNOFF TO STABILIZED AREAS.
4. MAINTAIN CUT AND FILL SLOPES TO 2:1 OR FLATTER AND STABILIZED WITH VEGETATION AS SOON AS GRADING IS ACCOMPLISHED.
5. SPREAD 6-INCH COURSE OF CRUSHED STONE EVENLY OVER THE FULL WIDTH OF THE ROAD AND SMOOTH TO AVOID DEPRESSIONS.
6. PROVIDE APPROPRIATE SEDIMENT CONTROL MEASURES TO PREVENT OFFSITE SEDIMENTATION.

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 NATURAL RESOURCES CONSERVATION SERVICE
 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

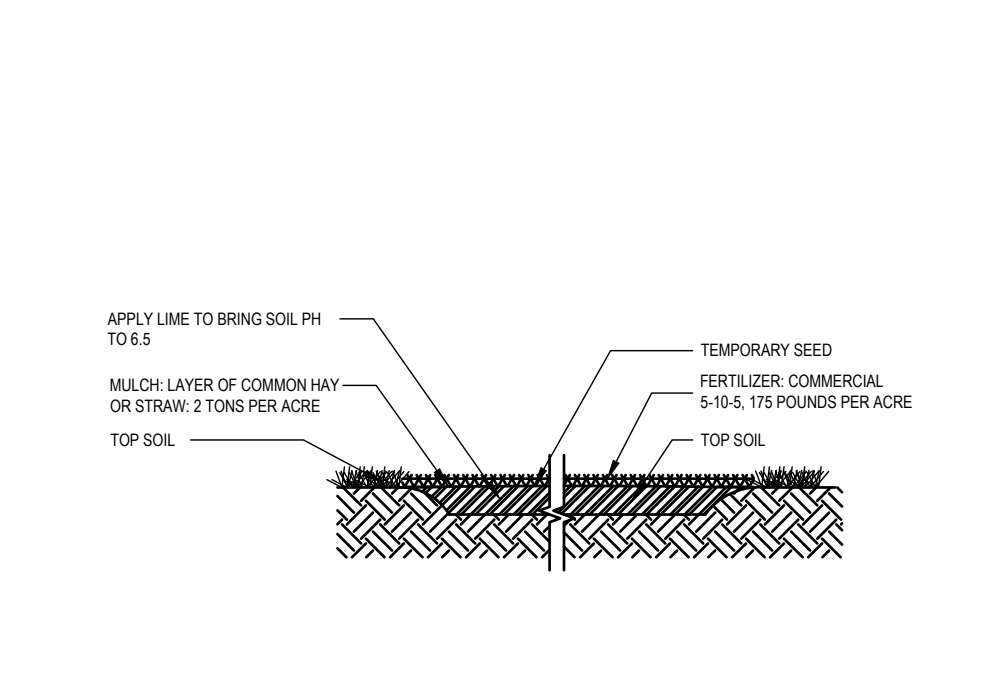
CONSTRUCTION ROAD STABILIZATION

CONSTRUCTION SPECIFICATIONS

1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS".
3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
5. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.
6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
7. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 8 INCHES IN THICKNESS.
8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOIL, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
9. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
11. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
12. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
13. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
14. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.

U.S. DEPARTMENT OF AGRICULTURE
 NATURAL RESOURCES CONSERVATION SERVICE
 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

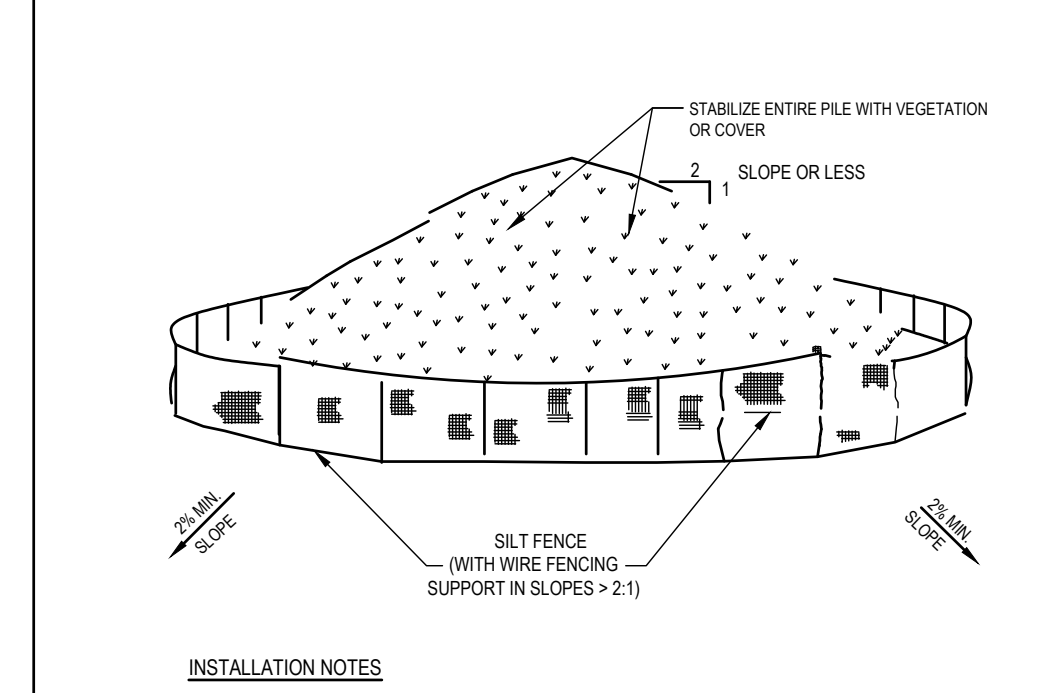
LANDGRADING SPECIFICATIONS



- CONSTRUCTION SPECIFICATIONS**
1. TOP SOIL, SEED, MULCH, AND FERTILIZER DISTURBED SOIL AREAS THAT WILL BE EXPOSED FOR 14 DAYS OR MORE.

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TEMPORARY TOPSOIL FERTILIZER, SEED AND MULCH DETAIL



- INSTALLATION NOTES**
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
 3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
 4. SEE SILT FENCE DETAIL ABOVE.
 5. SILT FENCE TO BE 10' FROM TOE OF SLOPE AND 10' FROM PROPERTY LINES.

SOIL STOCK PILE DETAIL

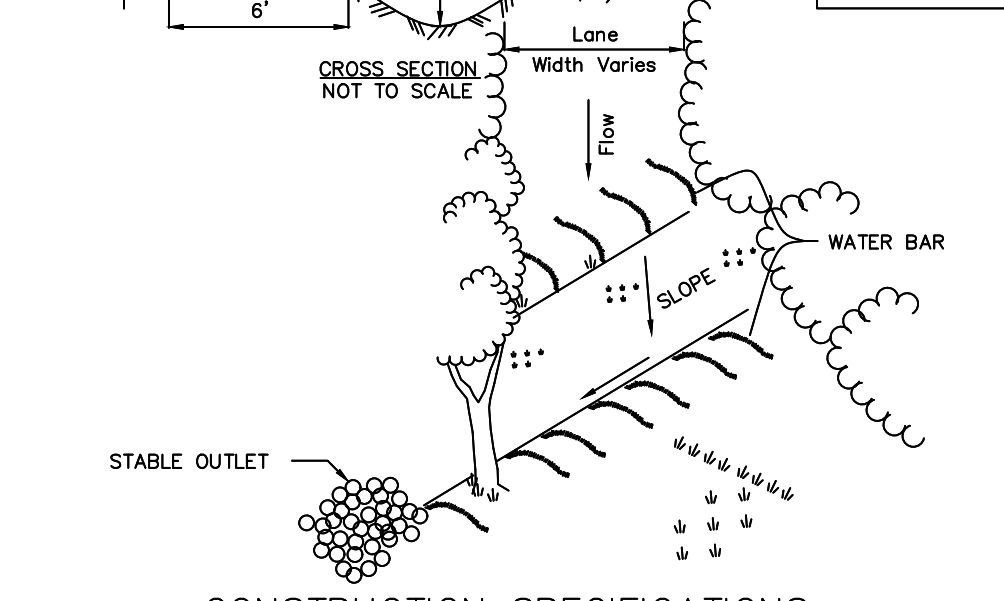
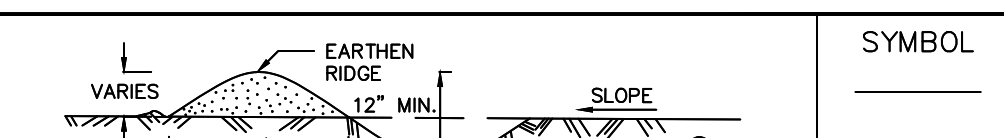
SEEDING NOTE:

1. ERNEST CONSERVATION SEEDS NORTHEAST POLLINATOR 3' MIX - ERNMX-612 TO BE SEEDED BELOW SOLAR PANELS. SEED AT 40 LB/AC WITH 30 LB/AC OF A COVER CROP. FOR A COVER CROP USE EITHER GRAIN OATS (1 JAN TO 31 JUL) OR GRAIN RYE (1 AUG TO 31 DEC).

NORTHEAST SOLAR POLLINATOR 3' MIX - ERNMX-612	
SHEEP FESCUE, VARIETY NOT STATED	94.90%
BUTTERFLY MILKWEED	2.50%
PARTRIDGE PEA, PA ECOTYPE	2.00%
SHOWY EVENING PRIMROSE	0.30%
ZIGZAG SPIDERWORT, VA ECOTYPE	0.30%

WINTER SHUTDOWN CONSTRUCTION SCHEDULE

1. POST CLEARING THE EXPOSED SOIL SHALL BE COVERED WITH MATERIAL(S) AS SET FORTH IN THE TECHNICAL STANDARD. NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, TO PREVENT THE EXPOSED SOIL FROM ERODING (SEE STANDARD AND SPECIFICATIONS FOR TEMPORARY CONSTRUCTION AREA SEEDING/STABILIZATION FOR WINTER SHUT DOWN, ABOVE).
2. REGULARLY INSPECT, MAINTAIN AND RE-SEED ANY AREAS THAT ARE NOT ADEQUATELY STABILIZED UP UNTIL THE JULY 1 START DATE AND THEREAFTER, UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
3. SITE INSPECTIONS ARE TO TAKE PLACE TWICE PER MONTH WITH PHOTOS PROVIDED TO THE TOWN TO DEMONSTRATE THAT THE SITE REMAINS STABILIZED/PROTECTED UNTIL CONSTRUCTION STARTS.
4. ONCE CONSTRUCTION STARTS, INSPECTIONS SHALL CONTINUE MONTHLY, WITH PHOTOS SUBMITTED TO THE TOWN, TO ENSURE THAT THE TEMPORARY STABILIZATION MEASURES REMAIN IN PLACE IN AREAS NOT UNDER ACTIVE CONSTRUCTION.

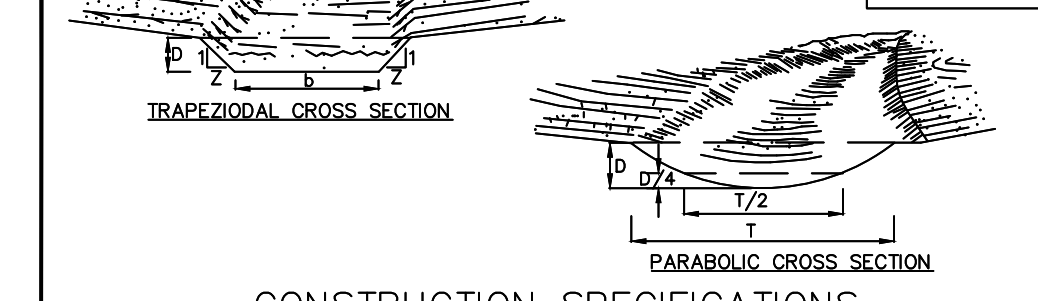
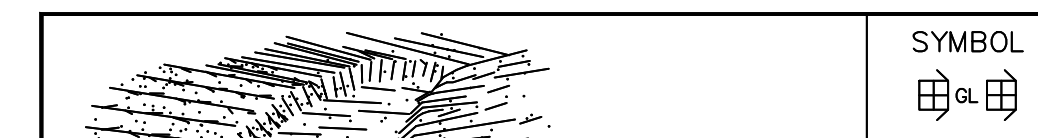


CONSTRUCTION SPECIFICATIONS

1. INSTALL THE WATER BAR AS SOON AS THE RIGHT OF WAY IS CLEARED AND GRADED.
2. DISK OR STRIP THE SOD FROM THE BASE FOR THE CONSTRUCTED RIDGE BEFORE PLACING FILL.
3. TRACK THE RIDGE TO COMPACT IT TO THE DESIGN CROSS SECTION.
4. THE OUTLET SHALL BE LOCATED ON AN UNDISTURBED AREA. FIELD SPACING WILL BE ADJUSTED TO USE THE MOST STABLE OUTLET AREAS. OUTLET PROTECTION WILL BE PROVIDED WHEN NATURAL AREAS ARE NOT ADEQUATE.
5. VEHICLE CROSSING SHALL BE STABILIZED WITH GRAVEL. EXPOSED AREAS SHALL BE SEEDED AND MULCHED WITHIN 2 DAYS.
6. PERIODICALLY INSPECT WATER BARS FOR EROSION DAMAGE AND SEDIMENT. CHECK OUTLET AREAS AND MAKE REPAIRS AS NEEDED TO RESTORE OPERATION.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE.

WATER BARS



CONSTRUCTION SPECIFICATIONS

1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPED NORMAL FLOW.
3. FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE WATERWAY.
4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
5. STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.
 - A. FOR DESIGN VELOCITIES OF LESS THAN 3.5 FT. PER SEC., SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY WATERWAYS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE WATERWAY DURING THE ESTABLISHMENT OF THE VEGETATION.
 - B. FOR DESIGN VELOCITIES OF MORE THAN 3.5 FT. PER SEC., THE WATERWAY SHALL BE STABILIZED WITH SOD, WITH SEEDING PROTECTED BY SUE OR EXCELISOR MATTING OR WITH SEEDING AND MULCHING INCLUDING TEMPORARY DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED.
 - C. STRUCTURAL - VEGETATIVE PROTECTION SUBSURFACE DRAIN FOR BASE FLOW SHALL BE CONSTRUCTED AS SHOWN ON THE STANDARD DRAWING AND AS SPECIFIED IN THE STANDARD AND SPECIFICATIONS FOR SUBSURFACE DRAIN.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE.

GRASSED WATERWAY

SOLAR ARRAY
 COMPANY, LLC
 24HR EMERGENCY CONTACT
 NAME, PHONE, ADDRESS

DANGER
 HIGH VOLTAGE.
 KEEP OUT

SIGNAGE DETAIL
 NOT TO SCALE

PWGC
 CLIENT DRIVEN SOLUTIONS
 P.W. GROSSER CONSULTING INC.
 630 Johnson Avenue - Suite 7
 Bohemia - NY - 11716-2618
 Phone: (631) 589-6353 - Fax: (631) 589-8705
 E-mail: INFO@PWGROSSER.COM

CONSULTANTS

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 NATURAL RESOURCES CONSERVATION SERVICE
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FOR PERMITTING PURPOSES ONLY NOT FOR CONSTRUCTION

7		
6		
5		
4		
3	CLIENT REVIEW	07/29/2024
2	WETLANDS UPDATE	07/24/2024
1	CLIENT REVIEW	04/05/2024
Number	Revision Description	Revision Date

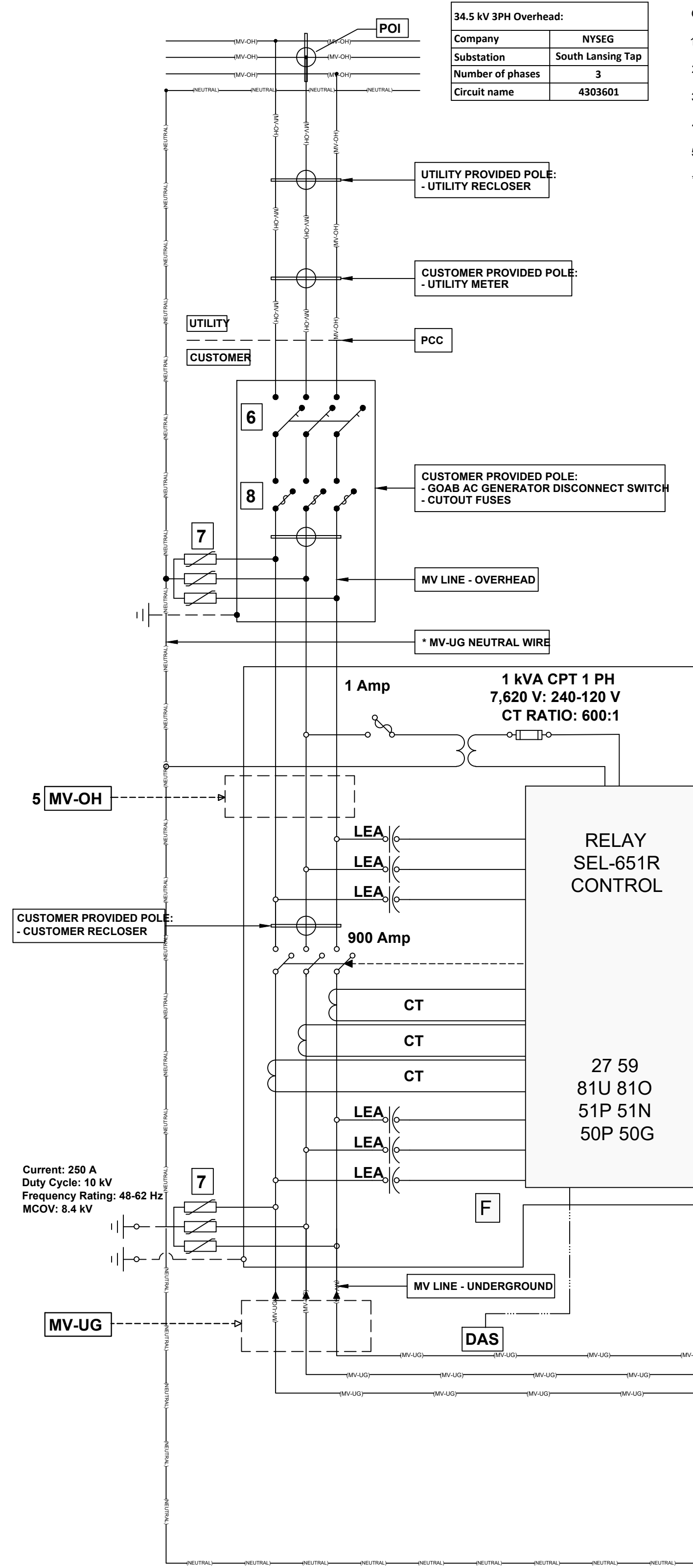
Designed By: _____ Date Submitted: _____
 Drawn By: **HLW/RPV** Date Created: **03/28/2024**
 Approved By: **MTS** Scale: **AS NOTED**

Client:
NY LANSING II, LLC
 P.O. BOX 384
 CALLICOON, NY 12783
 Project:
NORTH TRIPHAMMER ROAD
SOLAR FARM CONCEPTUAL
SITE PLAN
 Project Address:
NORTH TRIPHAMMER ROAD
TOWN OF LANSING
TOMPKINS COUNTY, NEW YORK

County Tax Map Number: **44-1-1.2 & 44-1-3.3** Contd. Number: ---
 Regulatory Reference Number: ---
 File of Drawing: ---

EROSION AND SED. CONTROL DETAILS

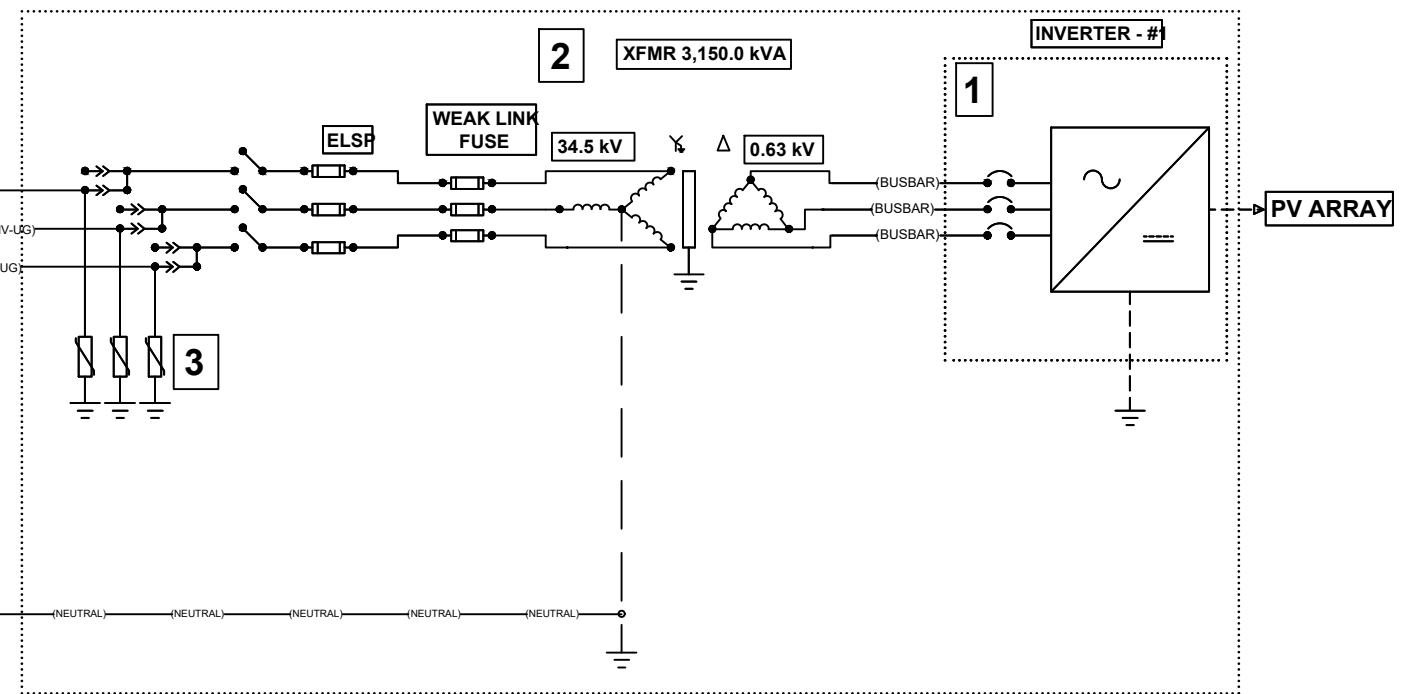
Drawing Number: **C-601**
 Sheet **10** of **11**
 PWGC Project Number: **DRS2404**



- GENERAL NOTES:
1. Only the main equipment manufacturers are indicated.
 2. The inverter power station integrates all the components in a compact outdoor assembly; Pad Mount Transformer and Other Equipment (Monitoring and Auxiliary Equipment).
 3. Ground resistance (Rg) will be at least 25 ohms.
 4. Pad Mount Distribution Transformer provided and installed by Customer. MV Cable, Meter pole, Cutout fuses and Disconnect Switch to be provided and installed by customer.
 5. UTILITY will make the final electrical connection from the CUSTOMER facilities to UTILITY facilities.
- *This Neutral wire is only representative; the real neutral wire is concentric strands integrated in each phase wire.

INVERTER SETTINGS		
DEVICE	PICKUP	CLEARING TIME (SECONDS)
27-1	528.0 V (88%)	2.00
27-2	300.0 V (50%)	1.10
59-1	660.0 V (110%)	2.00
59-2	720.0 V (120%)	0.16
81U-2	56.6 Hz	0.16
81U-1	58.5 Hz	300.00
81O-1	61.2 Hz	300.00
81O-2	62 Hz	0.16

VOLTAGE LINE (kV)	34.50
UTILITY	NYSEG
SUBSTATION	South Lansing Tap
NUMBER OF PHASES	3
CIRCUIT NAME	4303601
AC SYSTEM SIZE (MW)	3.00
POWER FACTOR	1.00
OUTPUT CURRENT (A)	50.20
AC SYSTEM SIZE (MVA)	3.00
1	
MANUFACTURER	Singrow
MODEL	SG150UD-MV
QUANTITY	1
MAX PV INPUT VOLTAGE (V)	1,500
AC POWER (kVA)	3,150
AC OUTPUT POWER (kW) (LIMITED)	3,000
AC OUTPUT VOLTAGE (V)	690
AC OUTPUT CURRENT (A)	2,886.75
UL 1741 AND IEEE 1547	YES
2	
MANUFACTURER	EATON
QUANTITY	1
POWER (kVA)	3,150
HV BIL (kV)	150
LV BIL (kV)	30
NOMINAL HIGH VOLTAGE (kV)	34.50
NOMINAL LOW VOLTAGE (V)	690
IMPEDANCE (%)	5.75
X/R Ratio	>=5
PRIMARY WINDING	WYE
SECONDARY WINDING	DELTA
3	
MANUFACTURER	EATON
MCOV RATING (kV)	22.00
DUTY CYCLE (kV)	27.00
4	
SIZE	2/D AWG
NORMAL TEMP RATING (°C)	105
JACKET	XLPE
CONCENTRIC NEUTRAL	100%
INSULATION LEVEL (%)	100
VOLTAGE RATING (kV)	35
LENGTH (ft)	2,590.15
5	
TYPE	ACSR
SIZE	1/D AWG
LENGTH (ft)	198.38
6	
MANUFACTURER	EATON
RATING (A)	600
VOLTAGE (kV)	15.5
BIL (kV)	200
7	
MANUFACTURER	EATON
QUANTITY	3
MCOV (kV)	22.00
ARRESTER RATING (kV)	27.00
8	
MANUFACTURER	S&C
RATING (kV)	35
RATING (A)	175
BIL (kV)	200
QUANTITY	3



ELECTRICAL THREE LINE DIAGRAM
NOT TO SCALE



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Title of Drawing: ---

**ELECTRICAL
THREE LINE
DIAGRAM**

Drawing Number: **C-602**

Sheet **11** of **11**

PRQC Project Number: **DRS2404**

Unauthorized alteration or addition to the drawings and related documents is a violation of Section 2209 of the New York State Education Law.