TOWN OF LYSANDER
PLANNING BOARD MEETING
8220 Loop Road
Thursday, July 13, 2023 at 7:00 p.m.

I. PUBLIC HEARING -- (Continuation from June 8, 2023)

SEQR Review: West Genesee Road Solar 1, LLC: 1235 West Genesee Road

1. Controlled Site Use — West Genesee Road Solar 1, LLC
   Case No. 2023—004 — 1235 West Genesee Road

SEQR Review: 3353 Cold Springs Solar, LLC: 3400 Cold Springs Road

PUBLIC HEARING -- (Continuation from June 8, 2023)

2. Minor Subdivision — 3354 Cold Springs Solar, LLC
   Case No. 2023—008 — 3400 Cold Springs Road

II. APPROVAL OF MINUTES

Review and approval of the minutes of the May 11, 2023 and June 8, 2023 regular Planning Board meeting.

III. OLD BUSINESS

1. Controlled Site Use — West Genesee Road Solar 1, LLC
   Case No. 2023—004 — 1235 West Genesee Road

2. Minor Subdivision — 3354 Cold Springs Solar, LLC
   Case No. 2023—008 — 3400 Cold Springs Road

3. Controlled Site Use — New Leaf Energy: 3354 Cold Springs Solar
   Case No. 2023—005 — 3400 Cold Springs Road

IV. OTHER BUSINESS

1. Recommendation to Town Board: Melvin Farms Letter of Intent; which is available on the website at www.townoflysander.org.

V. ADJOURN

The next regular Town of Lysander Planning Board meeting is scheduled for **Monday,** August 14, 2023 at 7:00 p.m.

West Genesee Solar

ERDMAN ANTHONY

June 27, 2023

Ms. Karen Rice; Planning Board
Mr. Al Yager; Town Engineer
Town of Lysander
8220 Loop Road
Baldwinsville, NY 13027

SUBJECT: West Genesee Road Solar 1, LLC
1235 West Genesee Road Solar Site

Dear Ms. Rice and Mr. Yager;

By this letter we are Transmitting seven (7) copies of the following for your use, review, and information:

1. A Glare Analysis
2. Powin (Battery Manufacturer) *Emergency Response Guide for AHJ's*
3. National Grid *Coordinated Electric System Interconnect Review* (CESIR).
4. 3-Line Electrical Diagram (including energy storage batteries)
5. Updated Site Plans (Rev. 06-27-2023)

By this letter we are also providing the following written responses to comments provided by your office in a June 7, 2023 letter addressed to Chairman Corey & Lysander Planning Board Members.

Site Plan Review Comments:

1. I would recommend that the Planning Board request view shed rendering of the site depicting the view after construction from driveway of the Ingersoll residence located on the South side of West Genesee Road across the street from the project and from the driveways of the Gruden and Smith residences on the east side of Fenner Road.
   Response: *New and updated Visual Simulations are being prepared to reflect the latest Site Plans. These new Visual Simulations will be submitted upon their completion.*

2. The Planning Board should request a copy of the interconnect agreement from Nation Gird to verify that additional off-site electrical grid improvement will not be required for this to move forward.
   Response: *A copy of the National Grid CESIR study is included with this submission.*

3. Due to the rising grade of the site going up hill away from West Genesee Road and Fenner Road the Planning Board should consider requesting that the developer specify panels should be lower than the proposed 20' height to help maximize the effectiveness of the proposed screening and minimize the visual impact associated with the project.
   Response: *The updated Site Plans now indicate a maximum height of* 12-ft ±.

4. The stripped topsoil piles should be used to construct berms with the proposed plantings on top of the berms along the West Genesee Road and Fenner Road frontage to help maximize the effectiveness of the proposed vegetative screening.

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Response: *We do not recommend or endorse this as the existing on-site soils are generally well draining. The topsoil piles and any berms created using the stockpiled topsoil will dry out quickly. Any trees planted in the stockpiled topsoil berms will undoubtedly have a higher mortality rate than if they were simply planted at grade in the existing ground. Also, if trees are planted in stockpiled topsoil berms, there would be no opportunity to retain them as they would have to be removed (ta access the topsoil) during any future site decommissioning and restoration.*

5. I would recommend that all of the trees specified in the landscaping plan have a minimum height of 7' when they are planted and be spaced at I0'OC.
   Response: *The Landscaping Plan has been updated to include a minimum tree height of 7' and spaced at 10' on center.*

6. I would recommend that the boxwood shrubs be replaced with a more wind tolerant species such as juniper shrub, pieris, holly or inkberry planted at 4' OC.
   Response: *The Landscaping Plan has been updated to include the common juniper instead of the boxwood shrubs. The common juniper does well in drier conditions, which is expected due the well draining soils that exist on the subject site. Holly, pieris and inkberry shrubs typically need more moisture (than junipers) and do better in damp and poorly draining soils.*

7. I would recommend that the open areas in front of the site be seeded with a Ernst wild flower seed mix that would provide habitat improvement and be aesthetically pleasing.
   Response: *Any disturbed open areas in the front of and around the fenced array will now be seeded with an Ernst Wildflower seed mix. However, we do not anticipate or see the need to till any undisturbed or established grass / meadow areas in order to re-seed with a wildflower seed mix.*

8. The spacing between the rows of trees should be equal to the OC spacing between the trees and that the row spacing between the shrubs and trees be reduce to 4'-5'.
   Response: *The spacing between the rows of trees is equal to the 10' OC spacing between the trees per the Note under the Planting table. The row spacing between the shrubs and trees has been reduced to 4' – 5' which is also called in a Note under the Planting Table on the revised Landscaping Plan.*

9. The plantings should be placed in a mulch bed to promote as much rapid growth as possible.
   Response: *A note specifying the thickness and extent of the mulch bedding for the plantings has been added to the Landscape Plan.*

10. A note will need to be added to the landscaping plan that states the following "All plants that have received deer damage, are dead or not in good condition, shall be replaced w/in 1 year. Plants that have received deer damage shall not be the replaced in kind. The site shall be inspected annually by the Town Engineer to determine trees and shrubs that need to be replaced."
    Response: *The Landscaping Plan (sheet C-6.0) has been updated to include the above note which has been placed in a box so it stands out.*

ERDMAN ANTHONY

11. As proposed the landscaping plan will provide little to no visual screening for several years after the project tis constructed due to the proposed height of the panels, the site topography and height of the proposed trees when they are planted. The Board should consider the effects of the minimal screening that is included in the project on the view shed of the agricultural corridor along NYS Rte. 370 and the potential property value impacts to the surrounding properties.
Response: *Comment acknowledged. The landscape plantings have been moved closer to the roads, taller trees at a denser spacing are now proposed as well as a denser spacing for the proposed shrubs, and hedge link screening slats have been added to the northern and western fence lines.*

12. Grading plans and cross sections for the proposed dry stormwater ponds will need to be provided.
Response: *The revised Site Plans now include proposed grading for the stormwater "pocket ponds" and details are now included for their outlet weirs.*

13. A SWPPP will need to be provided.
Response: *A draft SWPPP for this project was submitted at the June 8, 2023 Planning Board meeting.*

14. Additional silt fence should be added to the grading and erosion control plan to minimize the potential for sediment laden stormwater from leaving the disturbed area.
Response: *Additional silt fence has been added to the Grading and Erosion Control Plan.*

15. Correspondence from the NYSDOT should be provided to verify that the proposed driveway location is acceptable to the NYSDOT.
Response: *The NYSDOT Driveway Permit application process is underway. A Part 1 for a Minor Commercial Entrance has been submitted for their review. Drawings and details needed for the HWP are now included in the Site Plans.*

16. Details for the concrete pads the site equipment will be placed on will need to be include in the site details.
Response: *Details for the concrete pads for the equipment have been added to the submitted revised / updated Site Plans.*

17. Details related to the signage components of the battery energy storage system will need to be included in the site details.
Response: *NEC compliant Warning signage for the entire system array has been added to Site Plan sheet C-3.*

18. A decommissioning plan for the solar power generation system and battery energy storage system will need to be provided.
Response: *A decommissioning plan / estimate for the solar power generation system and battery energy system was submitted on May 24, 2023.*

19. A one- or three-line electrical diagram detailing the battery energy storage system layout, associated components, and electrical interconnection methods, with all National Electrical Code compliant disconnects and over current devices will need to be provided.

ERDMAN ANTHONY

Response: *A 3-line Electrical diagram detailing the battery energy storage system layout, associated components, and electrical interconnection methods is included in this submission.*

20. An emergency operations plan associated with the Battery Energy Storage system will need to be provided.
Response: *An Emergency Response Guide for AHJ's prepared by the Battery manufacturer (Powin) is included in this submission*

SEQRA Review comments

21. The New York State Office of Parks Recreation and Historic preservation letter attached to the SEQR indicates that additional information will be required from the applicant before finds can be rendered by the office. The applicant will need to provide a no effect letter from SHPO before action is taken on the SEQR review.
Response: *Comment acknowledged. The "No Effect" letter will be submitted upon our receipt from NYSOPRHP. The letter will also be added to a final draft of the SWPPP.*

22. This SEQR indicates that 100% of this site is prime agricultural soils. Per the recommendations included in the Onondaga County Farm Land Protection Plan the Board should consider the affects of the proposed project related to impacts on farmland resources and agricultural communities.
Response: *Comment acknowledged. A note has been added to the cover sheet regarding NYS Ag & Markets construction guidance and requirements. Topsoil removed during the site's construction is being stored on site for the site's future restoration should it ever be decommissioned.*

We trust the above satisfactorily addresses all your concerns with the submitted Site Plans and application documents.

If anyone has any questions, please contact us.

Sincerely,

Marc Kenward, PE
Senior Associate

ERDMAN ANTHONY

mdk

Enc: As noted on page 1 of this letter.

c: Terrance Nolan, New Leaf Energy, Inc.
Chris Collett, New Leaf Energy, Inc.

SITE USE PERMIT SET

1235 WEST GENESEE ROAD, LYSANDER NY 13027
2.90 MWAC RATED SOLAR + STORAGE ELECTRIC SYSTEM

GENERAL NOTES

1. AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE THE EPC PROVIDER HIRED BY THE SYSTEM/PROJECT OWNER.
2. WHEN THERE IS A CONFLICT BETWEEN THESE GENERAL NOTES AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
3. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS.
4. THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A CONSTRUCTION LEVEL DESIGN AND ASSOCIATED DRAWINGS AND DETAILS.
5. COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS.
6. UNLESS OTHERWISE NOTED, THE DESIGN REPRESENTED ON THESE PLANS IS BASED ON THE INFORMATION AND CRITERIA LISTED IN THE "BASIS OF DESIGN" SECTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH INFORMATION IN PREPARATION OF THE CONSTRUCTION DESIGN.
7. THE EXISTING CONDITIONS REPRESENTED ON THESE PLANS ARE BASED ON PUBLICLY AVAILABLE INFORMATION AND THE SITE DISCOVERY SUMMARIZED IN THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF SUCH INFORMATION AND SUPPLEMENT WITH ANY ADDITIONAL REQUIRED INFORMATION.
8. UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT SHALL BE CONSIDERED TO BE NEW.
9. ALL EQUIPMENT AND COMPONENTS SHALL BE MOUNTED IN COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS, CONSTRUCTION DETAILS, AND/OR PRUDENT INDUSTRY STANDARDS.
10. TO THE EXTENT THAT TREES AND OTHER FEATURES AFFECT THE SYSTEM'S PRODUCTION, SUCH PRODUCTION MODELING IS BASED ON THE EXISTING APPROXIMATE HEIGHTS AND LOCATIONS RELATIVE TO THE SYSTEM AND MAY BE IMPACTED AS TREES GROW AND OTHER FEATURES CHANGE.

NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS

CONSTRUCTION OF THIS PROJECT IS TO COMPLY TO THE EXTENT PRACTICAL WITH THE LATEST NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS GUIDELINES FOR SOLAR ENERGY PROJECTS – CONSTRUCTION MITIGATION FOR AGRICULTURAL LANDS. THIS INCLUDES COMPLIANCE WITH ENVIRONMENTAL MONITORING, CONSTRUCTION REQUIREMENTS, POST CONSTRUCTION RESTORATION AND POST CONSTRUCTION ENVIRONMENTAL MONITORING AND REMEDIATION.

NYSDOT HIGHWAY WORK PERMIT DESIGNER CONTACT STATEMENT

ERDMAN ANTHONY CONSULTING ENGINEERS IS RESPONSIBLE FOR THE CIVIL-SITE DESIGN OF THIS PROJECT. MARC KENWARD IS THE DESIGNER AND IS FAMILIAR WITH NYSDOT STANDARDS AND REQUIREMENTS AND SHALL BE CONTACTED AT 585-427-8888 TO RESOLVE ISSUES OR PROBLEMS DURING CONSTRUCTION. ALL REVISIONS, INCLUDING REVISIONS NECESSARY DUE TO FIELD CONDITIONS, SHALL BE APPROVED BY THE NYSDOT.

PROJECT SCOPE

THIS PROJECT CONSISTS OF THE INSTALLATION OF BATTERY ENERGY STORAGE EQUIPMENT, PER THE SYSTEM DESCRIPTION BELOW. THE ENERGY STORAGE MODULES WILL BE INSTALLED IN PURPOSE BUILT ENCLOSURES WITH INTEGRATED FIRE SUPPRESSION AND COOLING SYSTEMS. THE ENERGY STORAGE MODULES WILL BE WIRED IN SERIES AND PARALLEL TO ACCOMMODATE THE POWER REQUIREMENTS OF THE POWER CONVERSION SYSTEM OR DC-DC CONVERTER (DEPENDENT ON PROJECT REQUIREMENTS). THE COMBINED POWER WILL BE CONNECTED TO CERTIFIED POWER CONVERSION SYSTEMS THAT CONVERT AC/DC AND DC/AC FOR CHARGE/DISCHARGE CAPABILITIES. DC-DC CONVERTERS WILL BE USED IN DC COUPLED PROJECTS WITH ONLY CERTIFIED INVERTERS (DC/AC) DISCHARGING ENERGY TO THE GRID.

SYSTEM DESCRIPTION

MODULES	TSM-585NEG19RC	SYSTEM SIZE (KWAC)	2,900 KWAC
STC RATING (W)	585 WDC	INVERTER(S)	(1) SMA SC 4000-UP-US (FACTORY LIMITED TO 2990KW)
RACKING	ATI DURATRACK	CEC EFFICIENCY	98 %
AZIMUTH	180°	TILT ANGLE	+/- 52°

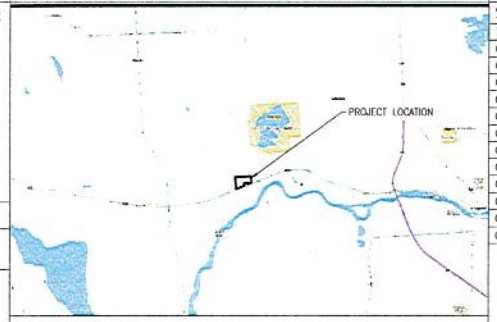
ENERGY STORAGE SYSTEM DESCRIPTION

SYSTEM POWER CAPACITY	2990 KWAC
SYSTEM ENERGY CAPACITY	# HOURS AT RATED POWER CAPACITY
POWER CONVERSION SYSTEM / INVERTER	SMA SC 4000 UP-US (FACTORY LIMITED TO 2990KW)
DC / DC CONVERTER	SMA DC-DC CONVERTER

TOTAL SYSTEM DESCRIPTION

STORAGE CHARGING MODE	PV ONLY

LOCATION MAP



AERIAL VIEW

DRAWING LIST

SHEET NUMBER	SHEET TITLE
T-1	TITLE PAGE
CIVIL	
C-1.0	EXISTING CONDITIONS PLAN
C-2.0	TREE CLEARING AND DEMO PLAN
C-3.0	LAYOUT AND MATERIALS PLAN
C-4.0	GRADING AND EROSION CONTROL PLAN
C-4.1	GRADING AND EROSION CONTROL PLAN
C-5.0	CIVIL DETAILS
C-5.1	CIVIL DETAILS
C-5.2	DRIVEWAY PERMIT DETAILS
C-5.4	DRIVEWAY PERMIT DETAILS
C-5.3	DRIVEWAY PERMIT DETAILS
C-6.0	LANDSCAPING PLAN

APPLICABLE CODES AND STANDARDS

2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL BUILDING CODE WITH NJ AMENDMENTS
UL-1703 – SOLAR MODULES
UL-1741 – INVERTERS, COMBINER BOXES
UL-2703 – RACKING MOUNTING SYSTEMS AND CLAMPING DEVICES FOR PV MODULES
UL-1642 – STANDARD FOR LITHIUM BATTERIES
UL-1973 – STANDARD FOR BATTERIES FOR USE IN LIGHT ELECTRIC RAIL (LER) APPLICATIONS AND STATIONARY APPLICATION
UL-9540 – STANDARD FOR ENERGY STORAGE SYSTEM AND EQUIPMENT

PROJECT DIRECTORY

SYSTEM / PROJECT OWNER
TBD

LAND OWNER / HOST
MANGANO, LLC
1235 WEST GENESEE ROAD
BALDWINSVILLE, NY 13027

AUTHORITY HAVING JURISDICTION
TOWN OF LYSANDER
8220 LOOP ROAD
BALDWINSVILLE, NY 13027

UTILITY
NATIONAL GRID

CIVIL ENGINEER
FIRM: ERDMAN ANTHONY & ASSOCIATES
CONTACT: MARC D. KENWARD, P.E.
PHONE: (585) 427-8888

ELECTRICAL ENGINEER
FIRM: NEW LEAF ENERGY, INC
CONTACT: AHARON WRIGHT, P.E.
PHONE: 978-221-3081

DESIGN ENGINEER
FIRM: NEW LEAF ENERGY, INC.
CONTACT: STEVEN RIGGALL
PHONE: 315-420-6575

GENERAL ABBREVIATIONS

(E)	EXISTING	NS	NORTH-SOUTH
AHJ	AUTHORITY HAVING JURISDICTION	NTS	NOT TO SCALE
AL	ALUMINUM	OAE	OR APPROVED EQUAL
APPROX	APPROXIMATE	OC	ON CENTER
ARY	ARRAY	OD	OUTSIDE DIAMETER
BLDG	BUILDING	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
NLE	NEW LEAF ENERGY	PV	PHOTOVOLTAIC
CL	CENTERLINE	PVC	POLY VINYL CHLORIDE
DAS	DATA ACQUISITION SYSTEM	SCH	SCHEDULE
DIA	DIAMETER	SS	STAINLESS STEEL
DO	DITTO	SSS	SOLAR SUPPORT STRUCTURE
EW	EAST-WEST	STC	STANDARD TEST CONDITIONS
FBO	FURNISHED BY OTHERS	TBD	TO BE DETERMINED
FF	FORWARD FACING	TP	TAMPER PROOF
GALV	GALVANIZED	TYP	TYPICAL
HDG	HOT DIP GALVANIZED	UON	UNLESS OTHERWISE NOTED
HVAC	HEATING VENTILATION AND AIR CONDITIONING	VIF	VERIFY IN FIELD
ID	INSIDE DIAMETER	WP	WEATHER PROOF
MFR	MANUFACTURER		
MOD	SOLAR MODULE		

REV 1.0

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

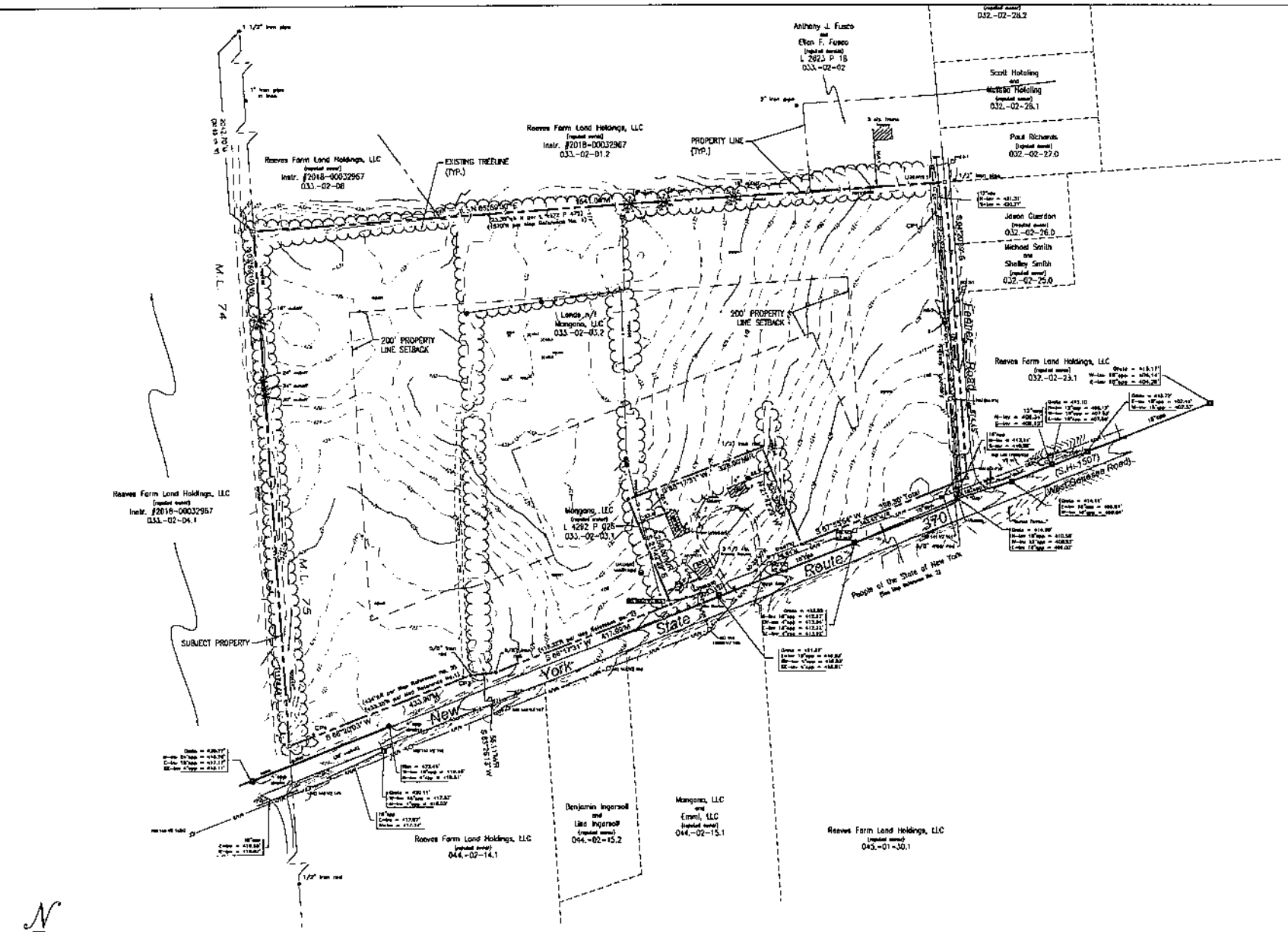
4/27/2023

WEST GENESEE ROAD SOLAR 1, LLC
1235 WEST GENESEE ROAD
LYSANDER, NY 13027

PROJECT NUMBER: 22-0469

REV	DATE	DRAWN	CHECKED	REASON FOR ISSUE
1	04/27/23	SS/KR	MDK	SUP UPDATE
2	06/27/23	SS/KR	MDK/SM	SUP UPDATE

T-1
TITLE PAGE



EXISTING CONDITIONS PLAN

SCALE: 1"=100'

0 100' 200'

new leaf energy

EDMAN ANTHONY

NOT FOR CONSTRUCTION

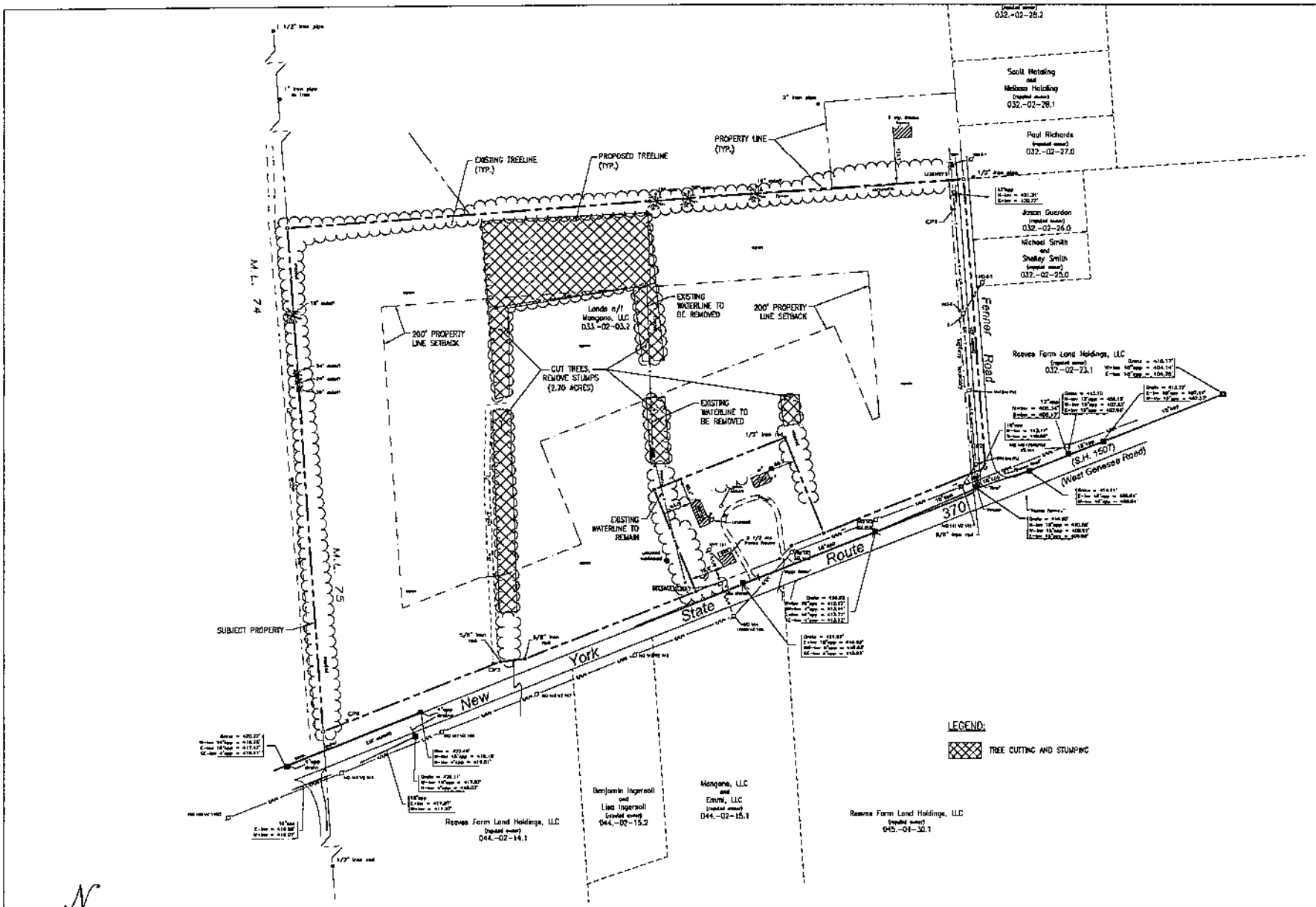
4/27/2023

WEST GENESEE ROAD SOLAR 1, LLC
1235 WEST GENESEE ROAD
LYSANDER, NY 13027

PROJECT NUMBER: 22-0469

NO	DATE	DRAWN	CHECKED	RELEASE DWG.
1	01/27/23	SR/CS	WDK	SUP UPDATE
2	03/27/23	SR/CS	WDK/DM	SUP UPDATE

C-1.0
EXISTING CONDITIONS



TREE CLEARING AND DEMOLITION PLAN

SCALE: 1"=100'_FT

0 100' 200'

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

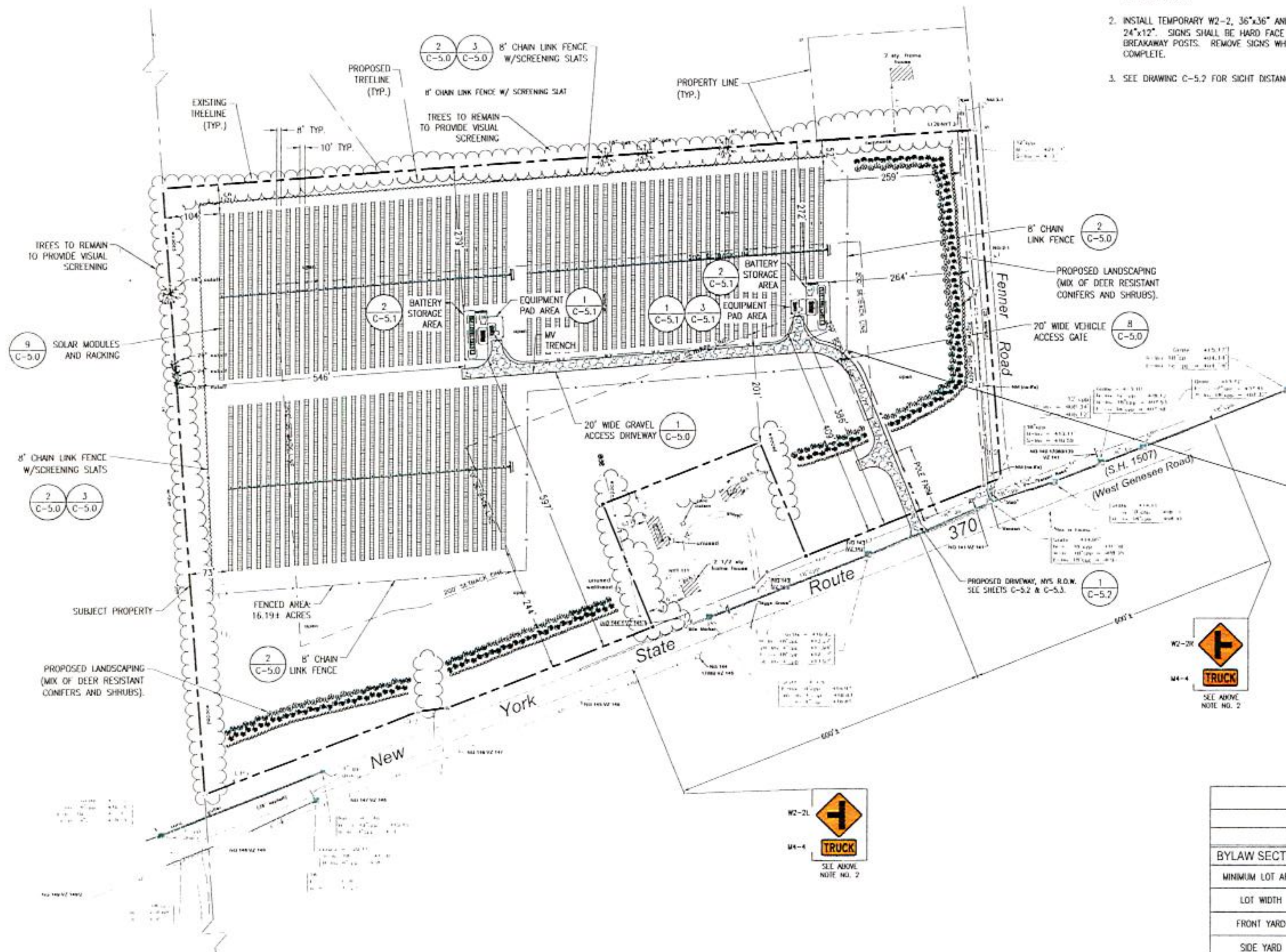
4/27/2023

WEST GENESEE ROAD SOLAR 1, LLC
1235 WEST GENESEE ROAD
LYSANDER, NY 13027

PROJECT NUMBER: 22-0468

BY	DATE	DRAWN	DESIGNED	RELEASE LEVEL
1	04/27/23	SKP/DR	MDK	SUP UPDATE
2	06/27/23	SKP/DR	MDK/SKP	SUP UPDATE

C-2.0
TREE CLEARING AND DEMOLITION PLAN



NOTE:

1. ALL GROUND MOUNTED ELECTRICAL ENERGY STORAGE EQUIPMENT TO HAVE WARNING AND ADVISORY SIGNAGE PER NATIONAL ELECTRIC CODE.
2. INSTALL TEMPORARY W2-2, 36"x36" AND M4-4 SUPPLEMENTAL 24"x12". SIGNS SHALL BE HARD FACE SIGNS MOUNTED ON BREAKAWAY POSTS. REMOVE SIGNS WHEN SITE CONSTRUCTION IS COMPLETE.
3. SEE DRAWING C-5.2 FOR SIGHT DISTANCE EVALUATIONS.

P3: DANGEROUS VOLTAGE
LOCATION: ALL ACCESS POINTS TO THE SITE
NEC: 110.27(C)
BACKGROUND COLOR: ORANGE; TEXT COLOR: BLACK

WARNING
DANGEROUS VOLTAGE
KEEP OUT
QUALIFIED PERSONNEL ONLY

10" × 7"

P1: DIRECTORY MAP
LOCATION: ALL VEHICLE GATES
BACKGROUND COLOR: RED; TEXT COLOR: WHITE

CAUTION
POWER TO THIS SITE IS SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTING MEANS LOCATED AS SHOWN
SITE MAP

8" × 8"

P2: CONTACT INFORMATION
LOCATION: ALL VEHICLE GATES
BACKGROUND COLOR: YELLOW; TEXT COLOR: BLACK

SOLAR OWNER
NAME: TBD
TEL CONTACT: TBD

8" × 3"

ZONING SUMMARY TABLE				
PARCEL NUMBER(S):				
ZONING DISTRICT: AGRICULTURAL (A)				
BYLAW SECTION	UNITS	REQUIRED	PROVIDED	NOTES
MINIMUM LOT AREA	ACRES	20.0	31.22	NONE
LOT WIDTH	FEET	200	1,624	NONE
FRONT YARD	FEET	200/50	244/386**	MODULES/STORAGE
SIDE YARD	FEET	200/20	73/264**	MODULES/STORAGE
REAR YARD	FEET	200/50	52/272**	MODULES/STORAGE
MAXIMUM SOLAR PANEL HEIGHT	FEET	20	18	TOP OF SOLAR MODULE RACK
MAXIMUM LOT COVERAGE	%	50	45*	COVERAGE INCLUDING SOLAR PANELS

* MAXIMUM PROPOSED LOT COVERAGE SHOWN WAS TABULATED BASED ON THE AREA ENCOMPASSED BY THE OUTER EDGE OF THE ARRAY PANELS.

** ALL SOLAR PANELS AND RELATED EQUIPMENT SHALL BE SET BACK AT LEAST 200' FROM ALL EXISTING PROPERTY LINES, PUBLIC ROADS, POWER LINES AND PREXISTING STRUCTURES UNLESS FULLY SCREENED BY VEGETATION OR THE ADJACENT PROPERTY IS ALSO OWNED BY MANGANO, LLC. SETBACKS TO PROPOSED BATTERY STORAGE ARE BASED ON BUILDING CODE FOR THE ZONING DISTRICT.

LAYOUT AND MATERIALS PLAN

SCALE: 1"=100'

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

4/27/2023

WEST GENESEE ROAD SOLAR 1, LLC
1235 WEST GENESEE ROAD
LYSANDER, NY 13027

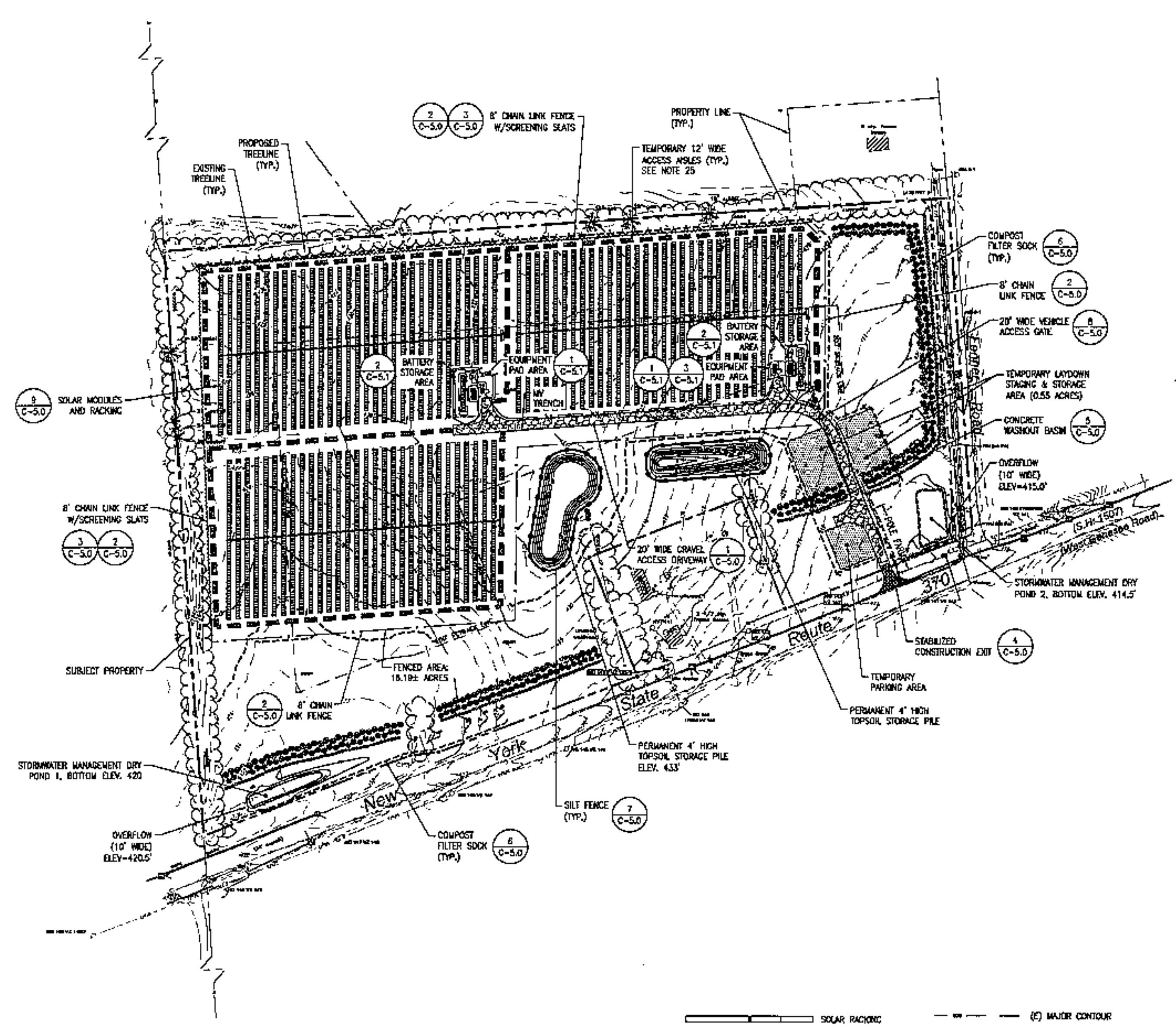
PROJECT NUMBER: 22-0469

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	04/27/23	SP/KR	MOK	SUP UPDATE
2	06/27/23	SP/KR	MOK/SR	SUP UPDATE

C-3.0
LAYOUT AND MATERIALS

EROSION AND SEDIMENT CONTROL NOTES:

1. A SPDES PERMIT SHALL BE IN PLACE PRIOR TO COMMENCING ANY EARTH DISTURBANCE. THE SPDES PERMIT # IS (TBD), AND WAS ISSUED ON (DD/MM/20YY).
2. EROSION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGED CONSTRUCTION PROVIDED IN THE SWPPP. A COPY OF THE APPROVED SWPPP SHALL BE MAINTAINED ON THE SITE.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
4. SEDIMENT BARRIERS SHALL BE INSPECTED AND APPROVED BY THE CEOR BEFORE CONSTRUCTION CAN START.
5. STRAW AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE OF NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY WHEN INSTALLED.
6. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN FOURTEEN (14) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED.
7. SEDIMENT BARRIERS SHALL BE CONSTRUCTED AROUND ALL SOIL STOCKPILE AREAS.
8. CLEAN OUT PROJECT DRAINAGE FEATURES AND STRUCTURES (I.E. CULVERTS, BASINS, SWALES, ETC.) AFTER COMPLETION OF CONSTRUCTION AND AS REQUESTED BY THE CEOR.
9. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE SEDIMENT CONTROL MEASURE OR IN ACCORDANCE WITH SYSTEMS STANDARD SPECIFICATION.
10. THE "TRAINED CONTRACTOR" IS RESPONSIBLE FOR DAILY INSPECTIONS, MAINTENANCE, AND DIRECTING REPAIR ACTIVITIES.
11. DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION OR AS DIRECTED BY THE CONTRACTOR/CEOR.
12. PIPE OUTLETS (IF ANY) SHALL BE STABILIZED WITH STONE. REFER TO DETAILS.
13. TEMPORARY SEEDING (perennial RYE gRASS) SHALL BE AT A RATE OF 45 LBS PER ACRE. DISTURBED AREAS OUTSIDE AND DOWN SLOPE FROM THE CONSTRUCTION LIMITS SHALL BE SIMILARLY SEEDED.
14. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED. A DEWATERING PLAN SHALL BE SUBMITTED FOR APPROVAL BY THE CONTRACTOR TO THE CEOR AND ADDED TO THE SWPPP.
15. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION/SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE CEOR AND WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. A STABILIZED CONSTRUCTION EXIT SHALL BE PROVIDED. A VEHICLE WASH DOWN FACILITIES SHALL BE PROVIDED IF THE STABILIZED CONSTRUCTION ENTRANCE IS INEFFECTIVE IN PREVENTING SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED IMMEDIATELY.
17. NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. NO RE-FUELING SHALL OCCUR WITHIN 100 FEET OF ANY WETLAND RESOURCE AREA AND 200 FEET FROM RIVERFRONT. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
18. THE COST OF REPAIRING EROSION CONTROL MEASURES OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
19. EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
20. CONTRACTOR SHALL SPRAY WATER FROM A WATER TRUCK ON DRY AND WINDY DAYS TO PREVENT DUST FROM FORMING. OTHER ALLOWED FORMS OF DUST CONTROL INCLUDE: CALCIUM CHLORIDE.
21. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF EIGHTY (80) PERCENT OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ESTABLISHED; OR OTHER EQUIVALENT STABILIZATION MEASURES, SUCH AS PERMANENT LANDSCAPE MULCHES, ROCK RIP-RAP OR WASHED/CRUSHED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE NOT COVERED BY PERMANENT STRUCTURES, CONCRETE OR PAVEMENT.
22. AFTER ALL DISTURBED AREAS HAVE REACHED FINAL STABILIZATION, THE CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AT THE DIRECTION OF THE CEOR.
23. AFTER THE REMOVAL OF TEMPORARY EROSION CONTROL MEASURES, THE CONTRACTOR SHALL HAND RAKE AND SEED THE AREA OF THE TEMPORARY EROSION CONTROL MEASURE.
24. EROSION CONTROL MEASURES AS SHOWN ON THESE DRAWINGS IS INTENDED TO CONVEY MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES AS NECESSARY TO PREVENT SOIL EROSION AND TO ACCOMPLISH THE PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP) OBJECTIVES.
25. TEMPORARY ACCESS ROADS/AISLES TO BE USED FOR DELIVERY & DISTRIBUTION OF MATERIALS THROUGH THE SITE. CONTRACTOR SHALL NOT PLACE ACCESS AISLES THROUGH WETLAND AREAS. TEMPORARY ACCESS AISLES AND TEMPORARY STAGING, STORAGE & PARKING AREAS ARE TO BE DE-COMPACTED AND RESTORED PER SWPPP.
26. ALL EXCESS TOPSOIL IS TO REMAIN ON-SITE, STOCKPILED AND PERMANENTLY STABILIZED WITH SEEDING.



N

GRADING AND EROSION CONTROL PLAN

SCALE: 1"=100'

0 100' 200'

SOLAR RACKING	(E) MAJOR CONTOUR
ROAD (GRAVEL)	(E) MINOR CONTOUR
FENCE LINE	TREELINE
FENCE LINE W/ SCREENING	SILT FENCE
PROPERTY LINE	COMPOST FILTER SOCK
STREAM	WETLANDS

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

4/27/2023

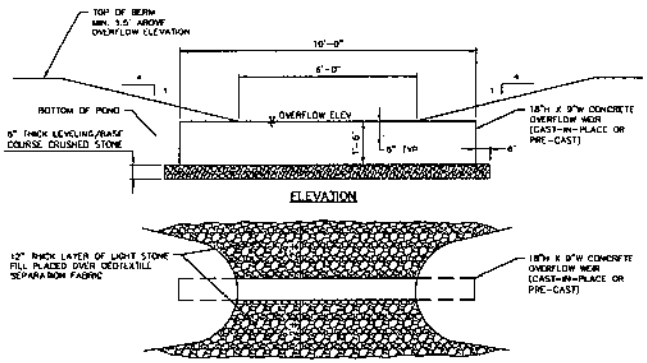
WEST GENESEE ROAD SOLAR 1, LLC
1235 WEST GENESEE ROAD
LYSANDER, NY 13027

PROJECT NUMBER: 22-0489

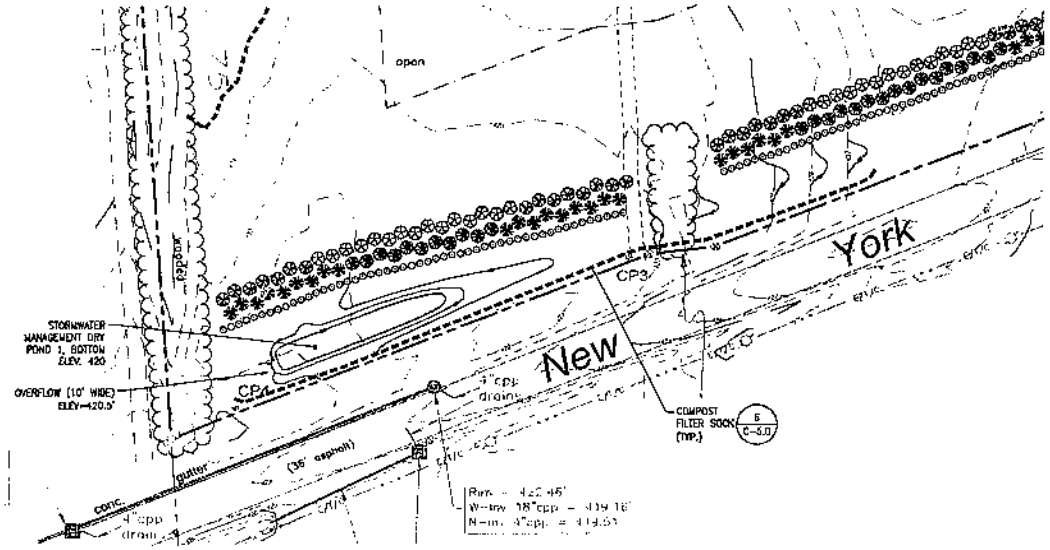
REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	04/27/23	SR/XR	MDK	SUP UPDATE
2	06/27/23	SR/XR	MDK/SR	SUP UPDATE

C-4.0

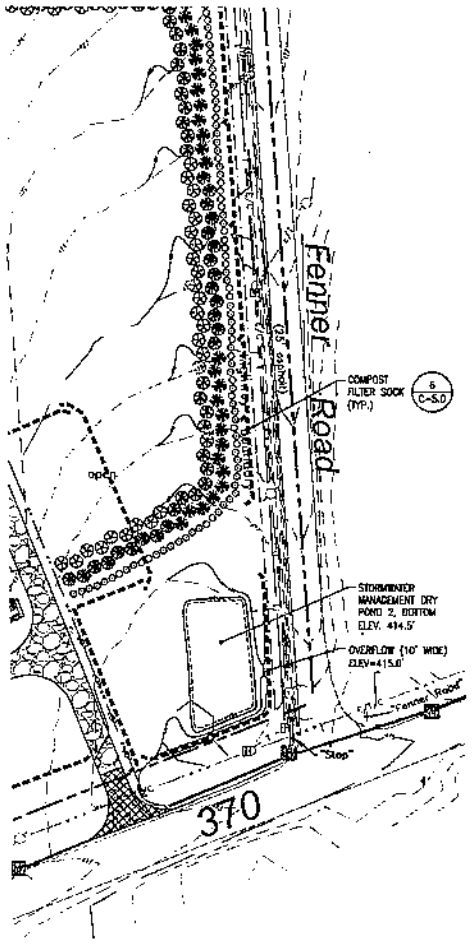
GRADING & EROSION CONTROL PLAN



OVERFLOW WEIR DETAIL
SCALE: 1/2"=1'-0"



SW STORMWATER MANAGEMENT DRY POND



SE STORMWATER MANAGEMENT DRY POND

SOLAR RACKING
ROAD (GRAVEL)
FENCE LINE
FENCE LINE W/ SCREENING
PROPERTY LINE
STREAM
(E) MAJOR CONTOUR
(E) MINOR CONTOUR
TREELINE
SILT FENCE
COMPOST FILTER SOCK
WETLANDS

GRADING AND EROSION CONTROL PLAN BLOW-UPS

SCALE: 1"=50'

0' 50' 100'

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

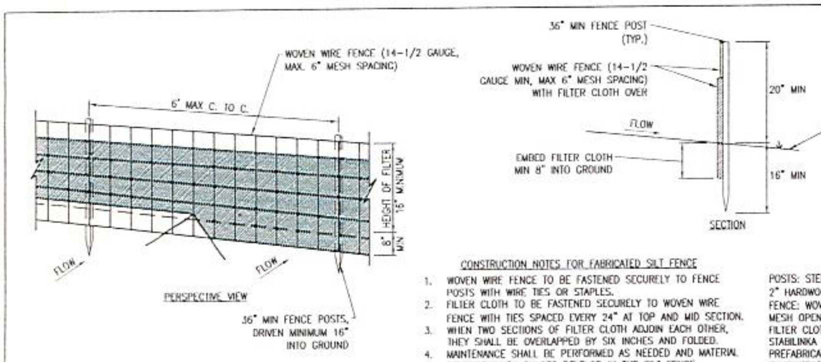
4/27/2023

WEST GENESEE ROAD SOLAR 1, LLC
1235 WEST GENESEE ROAD
LYSANDER, NY 13027

PROJECT NUMBER:
22-0459

NO	DATE	DRAWN	CHECKED	REASON FOR ISSUE
1	04/27/23	SR/KS	MK	SUP UPDATE
2	06/27/23	SR/KS	MK/SR	SUP UPDATE

C-4.1
GRADING & EROSION CONTROL PLAN



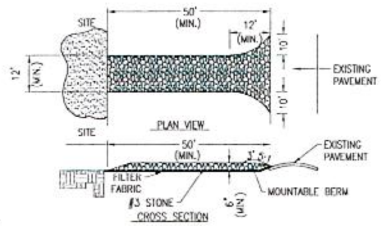
CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.

POSTS: STEEL, EITHER T OR U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 14 GAUGE 6" MAX. MESH OPENING
FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

7 SILT FENCE DETAIL

SCALE: NTS

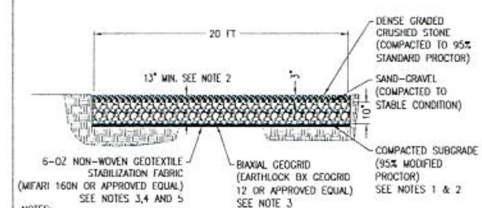


NOTES:

1. STONE SIZE - USE NYSDOT 703-0201 SIZE DESIGNATION #3 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50 FEET.
3. THICKNESS-NOT LESS THAN 6 INCHES.
4. WIDTH-NOT LESS THAN 12 FEET WHERE MORE THAN ONE (1) ACCESS POINT TO THE SITE. WHERE ONE (1) ACCESS POINT A MINIMUM OF 24 FEET IS REQUIRED.
5. GEOTEXTILE-SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER-SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
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 TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.
8. WHEN WHEEL WASHING IS REQUIRED, IT SHALL BE DONE ON AN 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.

4 STABILIZED CONSTRUCTION EXIT

SCALE: NTS

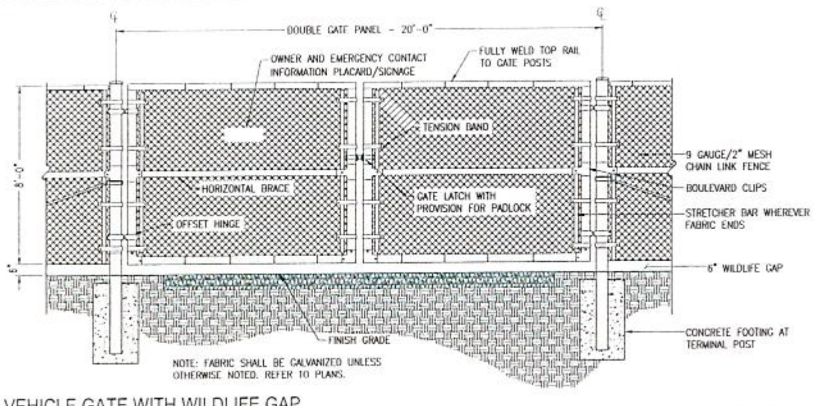


NOTES:

1. SUBCONTRACTOR SHALL EXCAVATE TO SUITABLE MATERIAL FOR SUBGRADE.
2. SUBCONTRACTOR SHALL COMPACT SUBGRADE TO PROVIDE SUITABLE SURFACE TO PLACE ROAD. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPERATION CRITERIA.
3. SUBCONTRACTOR SHALL FOLLOW MANUFACTURER INSTALLATION PROCEDURES.
4. WHERE OVERLAPPING OF GEOTEXTILE FABRIC IS REQUIRED, SUBCONTRACTOR SHALL OVERLAP A MINIMUM OF 24".
5. SUBCONTRACTOR SHALL REMOVE TEMPORARY CONSTRUCTION ACCESS ROADS, AND RESTORE TO PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CEOR AND THE GOVERNING AGENCIES.
6. SUBCONTRACTOR SHALL INSTALL CONDUITS FOR ALL ELECTRICAL CONDUIT CROSSINGS PRIOR TO INSTALLATION OF THE GEOGRID MATERIAL. THE GEOGRID SHALL NOT BE HORIZONTALLY CUT ONCE INSTALLED.

1 GRAVEL ACCESS ROAD

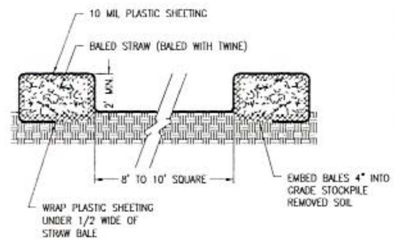
SCALE: NTS



NOTE: FABRIC SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. REFER TO PLANS.

8 VEHICLE GATE WITH WILDLIFE GAP

SCALE: NTS

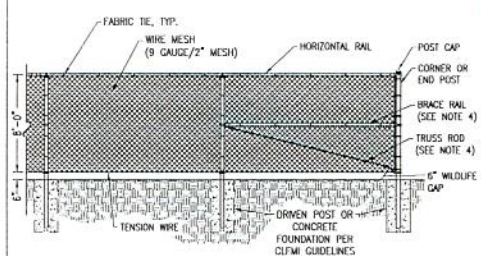


NOTES:

1. BASIN SHALL BE INSPECTED DAILY.
2. PLASTIC SHEETING SHALL BE FREE OF TEARS OR HOLES. DAMAGED OR LEAKING BASINS SHALL BE REPLACED OR REPAIRED IMMEDIATLY.
3. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE BASIN IS FILLED. WASHWATER FROM WASHOUT BASIN SHALL EVAPORATE OR BE VACUUMED OUT. REMOVE REMAINING HARDENED SOLIDS. REPLACE PLASTIC SHEETING WITH EACH CLEANING. REPLACE STRAWBALES AS REQUIRED.
4. DISPOSE OF HARDENED MATERIAL OFF-SITE OR PER THE PROJECTS SWPPP.

5 CONCRETE WASHOUT BASINS

SCALE: NTS

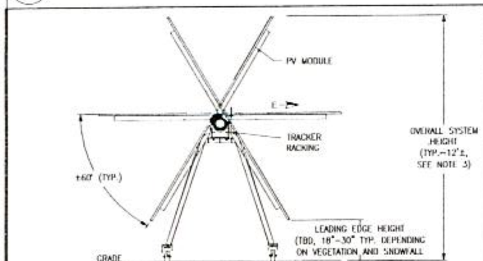


NOTES:

1. THE FENCE SHALL MEET OR EXCEED THE CHAIN LINK FENCE MANUFACTURER INSTITUTE (CLFMI) GUIDELINES AND RELATED FEDERAL SPECIFICATIONS FOR SECURITY CHAIN LINK FENCE MATERIALS AND INSTALLATION.
2. FENCE MATERIAL AND COMPONENTS SHALL BE GALVANIZED, UNLESS OTHERWISE NOTED.
3. THIS DETAIL NOT APPLICABLE FOR PRIVACY FENCE OR FENCE WITH SLATS.
4. ADJUSTABLE TRUSS ROD AND BRACE RAIL AT CORNER OR END POSTS ONLY, IF REQUIRED BY CLFMI GUIDELINES.

2 CHAIN LINK FENCE WITH WILDLIFE GAP

SCALE: NTS

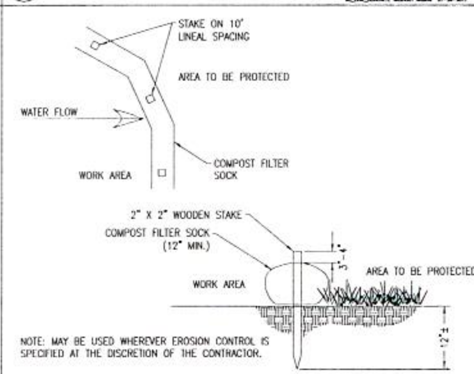


NOTES:

1. THE RACKING CONFIGURATION AND GROUND SCREW FOUNDATIONS SHOWN HERE ARE TYPICAL FOR A SINGLE AXIS TRACKER PV SYSTEM IN THIS REGION. THE SPECIFIC CONFIGURATION AND FOUNDATION DESIGN WILL BE DETERMINED BY OTHERS AS PART OF THE CONSTRUCTION SET OF DRAWINGS BASED ON THE SPECIFIED EQUIPMENT, RESULTS OF THE GEOTECHNICAL STUDY, AND OTHER FACTORS. THE 1X TRACKER SHOWN IN THIS DETAIL IS FOR GENERAL REFERENCE ONLY.
2. THE LEADING EDGE HEIGHT AND OVERALL SYSTEM HEIGHT ARE NOMINAL, ARE MEASURED AT MAXIMUM SPECIFIED ROTATION FROM GRADE, VARY WITH CHANGES IN LOCAL TOPOGRAPHY, AND SHALL BE DETERMINED AS PART OF THE CONSTRUCTION SET OF DRAWINGS BASED ON FINAL MODULE AND RACKING SPECIFICATIONS.
3. THE MAXIMUM ALLOWABLE OVERALL SYSTEM HEIGHT SHALL BE GOVERNED BY CITY/TOWN BYLAWS AND/OR ZONING CODES.

9 TYPICAL SINGLE AXIS TRACKER - SECTION

SCALE: N.T.S.



NOTE: MAY BE USED WHEREVER EROSION CONTROL IS SPECIFIED AT THE DISCRETION OF THE CONTRACTOR.

6 COMPOST FILTER SOCK

SCALE: NTS

HEDGELINK SIZE SPECS

SLAT TYPE	SLAT WIDTH	MESH SIZE	WIRE GAUGE	SLATS PER BOX	APPROX. COVERAGE PER BOX
HEDGELINK	—	2" & 2 ¼"	9, 11 OR 11 ½"	82	10 LINEAR FEET

MATERIALS
The HedgeLink® product is made with 16-gauge, galvanized, braided wire and needles are made with 3 mil (PVC).

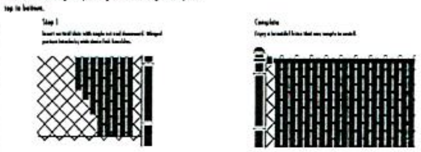
DURABILITY
PDS® PVC Fence Products are resistant to: severe weather conditions, salt water, sand, road dirt, most acids, alcohol, alkaline, ammonia, petroleum distillates, and common environmental pollutants.

MAINTENANCE
Pressure cleaning of surface contaminants is quickly accomplished with plain water.

WINDLOAD DISCLAIMER
Fibrous will not be responsible for fence damage resulting from wind load conditions due to insufficient structural support.

LIMITED WARRANTY
Hedgelink carries a 10-year, pro-rata warranty. Write Fibrous Extension for full warranty information.

INSTALLATION INSTRUCTIONS
Requires no locking device or tools. Hedgelink installs much like our classic Bottom-Locking or Top Locking slats – installing vertically from top to bottom.



3 HEDGELINK FENCE SCREENING

SCALE: N.T.S.

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

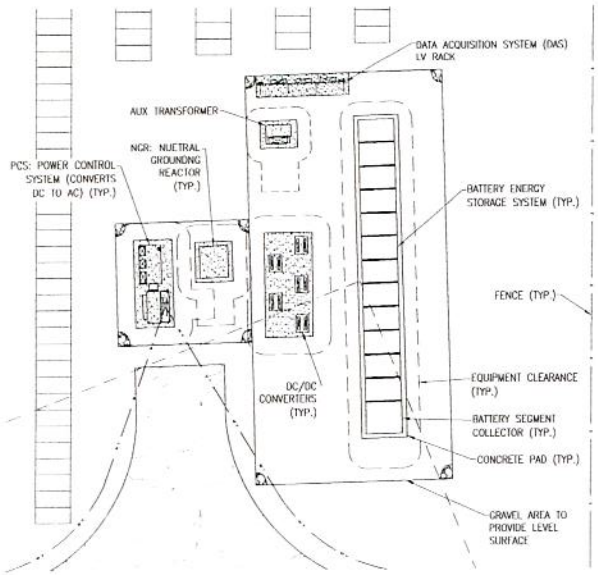
4/27/2023

WEST GENESEE ROAD SOLAR 1, LLC
1235 WEST GENESEE ROAD
LYSANDER, NY 13027

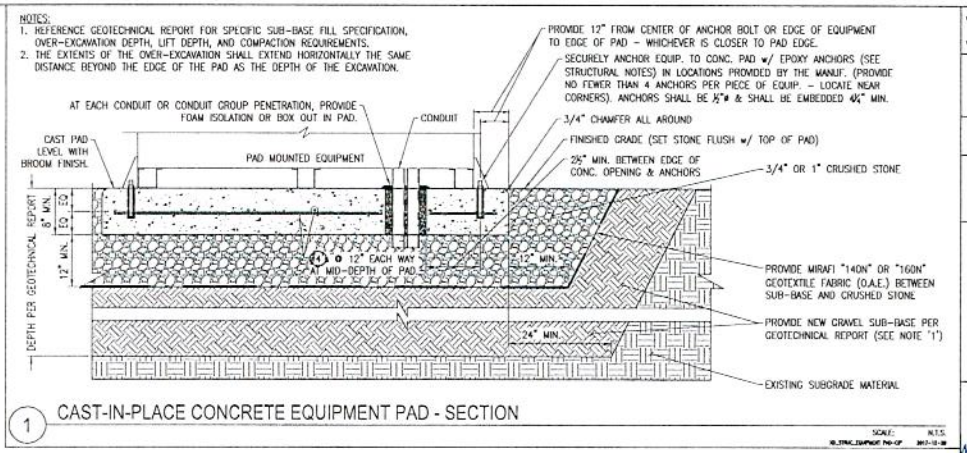
PROJECT NUMBER: 22-0469

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	04/27/23	SR/KR	MDK	SUP UPDATE
2	06/27/23	SR/KR	MDK/SR	SUP UPDATE

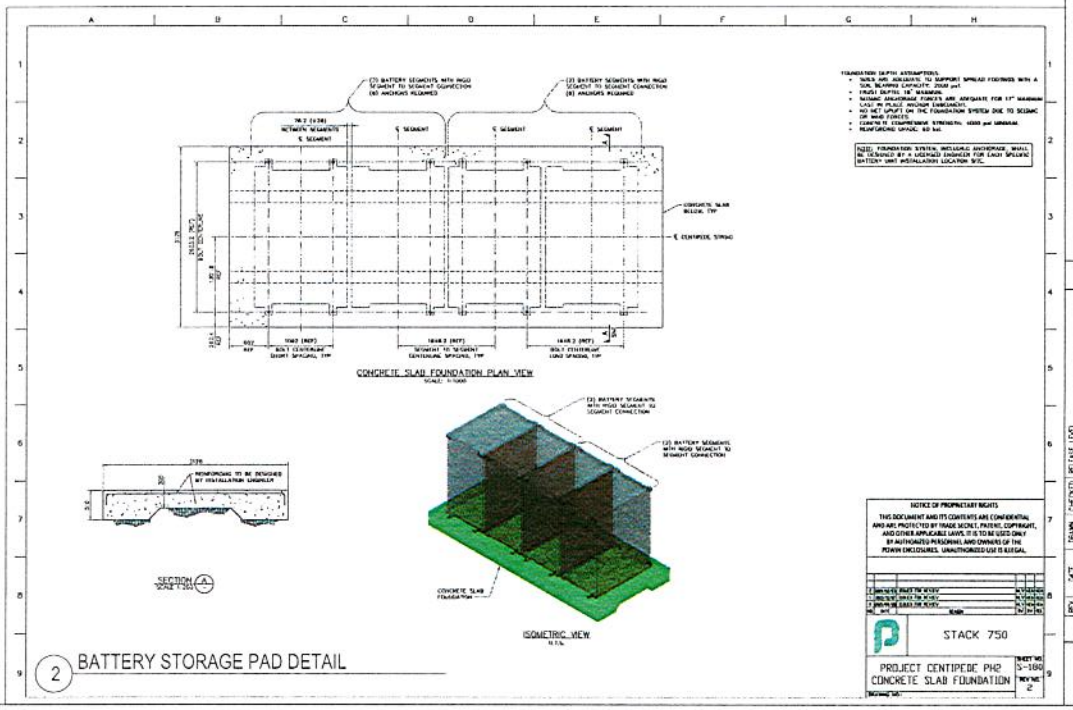
C-5.0
CIVIL DETAILS



3 TYPICAL EQUIPMENT PAD PLAN LAYOUT
(EAST EQUIPMENT PAD SHOWN, WEST PAD SIMILAR)



1 CAST-IN-PLACE CONCRETE EQUIPMENT PAD - SECTION



2 BATTERY STORAGE PAD DETAIL

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

4/27/2023

WEST GENESEE ROAD SOLAR 1, LLC
1235 WEST GENESEE ROAD
LYSANDER, NY 13027

PROJECT NUMBER: 22-0469

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	04/27/23	SR/AR	MCK	SUP UPDATE
2	06/27/23	SR/AR	MCK/SR	SUP UPDATE

C-5.1
CIVIL DETAILS

NYSDOT STANDARD GENERAL PLAN NOTES:

1. THE ROADWAY SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
2. ROADSIDE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
3. MATERIALS, EQUIPMENT AND VEHICLES SHALL NOT BE STORED OR PARKED WITHIN NEW YOR RIGHT-OF-WAY.
4. WORK ZONE TRAFFIC CONTROL SHALL COMPLY WITH THE 2009 EDITION OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT, AND SHALL BE IN ACCORDANCE WITH THE NYSDOT CONTRACT OR HIGHWAY WORK PERMIT DOCUMENTS AND AS DEEMED NECESSARY BY THE NYS ENGINEER IN CHARGE.
5. NOTIFY NEW YORK STATE DEPARTMENT OF TRANSPORTATION RESIDENT ENGINEER AT THE APPLICABLE RESIDENCY, THREE WORKING DAYS PRIOR TO WORKING IN THE STATE RIGHT-OF-WAY.

   ONONDAGA EAST: (315) 458-1910
   ONONDAGA WEST: (315) 672-8151
   CORTLAND/TOMPKINS: (607) 756-7072
   OSWEGO: (315) 963-3730
   CAYUGA/SENECA: (315) 539-3112
6. NOTIFY DIG SAFELY NEW YORK THREE WORKING DAYS PRIOR TO DIGGING, DRILLING OR BLASTING AT 1-800-962-7962, FOR A UTILITY STAKE OUT.
7. ALL WORK CONTEMPLATED AND MATERIALS USED WITHIN THE NYS RIGHT-OF-WAY SHALL BE COVERED BY AND IN CONFORMITY WITH THE NYS DEPARTMENT OF TRANSPORTATION MAY 1, 2008 SPECIFICATIONS BOOK AND ANY SUBSEQUENT ADDENDA ALONG WITH ANY APPROPRIATE CURRENT NYS DEPARTMENT OF TRANSPORTATION STANDARD SHEETS, EXCEPT AS MODIFIED IN THESE PLANS AND IN THE ITEMIZED PROPOSAL. METRIC UNITS MAY BE CONVERTED TO ENGLISH.
8. QUALITY CONTROL OF ASPHALT CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 402 OF THE STANDARD SPECIFICATIONS. ASPHALT COURSE DEPTHS SHOWN ON THE PLANS ARE ----
9. NO NIGHT WORK WILL BE ALLOWED UNLESS PRIOR APPROVAL IS GIVEN BY THE DEPARTMENT. ADDITIONAL MAINTENANCE AND PROTECTION OF TRAFFIC WILL BE REQUIRED INCLUDING THE ADDITION OF REFLECTIVE MATERIALS AND LIGHTING.
10. HAZARDOUS WASTE NOTIFICATION – THE PERMITTEE ACCEPTS THE RIGHT-OF-WAY OF THE STATE HIGHWAY IN ITS' AS IS CONDITION. THE DEPARTMENT OF TRANSPORTATION MAKES NO REPRESENTATION AS TO THE ABSENCE OF UNDERGROUND TANKS, STRUCTURES, FEATURES OR SIMILAR IMPEDIMENTS TO THE COMPLETION OF THE WORK PERMITTED HEREUNDER. SHOULD PERMITTEE FIND SOME PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS TO ITS WORK, THE DEPARTMENT OF TRANSPORTATION SHALL HAVE NO OBLIGATION TO CURE, REMOVE, REMEDY OR OTHERWISE DEAL WITH SUCH PREVIOUSLY UNKNOWN UNDERGROUND IMPEDIMENTS. THE DEPARTMENT WILL PERMIT THE PERMITTEE TO REMOVE, MODIFY OR OTHERWISE DEAL WITH SUCH UNDERGROUND TANKS, STRUCTURE FEATURE OR IMPEDIMENT IF SUCH IS DONE IN A MANNER WHICH MEETS ACCEPTABLE ENGINEERING PRACTICE AND IS PRE-APPROVED BY THE DEPARTMENT OF TRANSPORTATION. SHOULD PERMITTEE DETERMINE THAT SUCH UNFORESEEN UNDERGROUND IMPEDIMENT RENDERS PERMITTE'S WORK AS AUTHORIZED BY THIS PERMIT UNFEASIBLE, PERMITTEE SHALL HAVE THE OPTION OF RESTORING THE HIGHWAY TO ITS ORIGINAL CONDITION AND NOT PERFORMING SUCH WORK.
11. OPEN CUTTING OF THE ROADWAY SHALL NOT BE ALLOWED UNLESS PERMISSION IS GRANTED IN WRITING, BY THE REGIONAL TRAFFIC ENGINEER.

NNYSDOT STANDARD WZTC NOTES:

1. WORK ZONE TRAFFIC CONTROL REVISIONS: PROPOSED REVISIONS TO THE WORK ZONE TRAFFIC CONTROL (WZTC) PLAN OR MODIFICATIONS TO THE 619 STANDARD SHEETS SHALL BE SUBMITTED TO THE ENGINEER FOR THE REVIEW AND APPROVAL BY THE REGIONAL TRAFFIC ENGINEER PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH REVISIONS OR MODIFICATIONS. THE CONTRACTOR SHALL NOT IMPLEMENT THE PROPOSED REVISIONS WITHOUT APPROVAL FROM THE REGIONAL TRAFFIC ENGINEER. WHEN APPLICABLE, NYSDOT WORK ZONE TRAFFIC CONTROL (WZTC) TYPICAL APPLICATIONS SHALL BE USED. TYPICALS CAN BE FOUND AT https://webapps.dot.ny.gov/work-zone-traffic-control
2. TRAVEL LANE WIDTHS IN WORK ZONES: WHERE NOT SHOWN IN THE WZTC PLANS OR OTHERWISE AUTHORIZED BY NYS DOT (OR THE ENGINEER), TRAVEL LANE WIDTHS IN WORK ZONES SHALL BE A MINIMUM OF 11 FT ON FREEWAYS, RAMPS, EXPRESSWAYS AND MULTI-LANE* CONVENTIONAL ROADWAYS AND 10 FT ON ALL OTHER CONVENTIONAL ROADWAYS. *(MULTI-LANE ROADWAYS ARE THOSE WITH TWO OR MORE THRU LANES IN ONE OR BOTH DIRECTIONS.)
3. DAILY LANE, RAMP AND SHOULDER CLOSURE RESTRICTIONS: WORK ZONES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME IN EACH DIRECTION ON DIVIDED ROADWAYS, UNLESS APPROVED BY THE ENGINEER.

   THE CONTRACTOR SHALL SCHEDULE WORK SO THAT ALL TRAVEL LANES AND RAMPS IN EACH DIRECTION ARE OPEN WHEN THE CONTRACTOR'S OPERATIONS ARE CLOSED DOWN OR SUBSTANTIALLY CLOSED DOWN.

   DAILY CLOSURES MAY OCCUR OFF OF LONG-TERM CLOSURES AND SHALL BE SUBJECT TO DAILY CLOSURE RESTRICTIONS.

   WORK ZONES SHALL BE RESTRICTED TO ONE SIDE OF THE ROADWAY AT A TIME ON UNDIVIDED HIGHWAYS.
4. FLAGGING OPERATIONS: WHEN A PEDESTRIAN APPROACHES A FLAGGER STATION, THE FLAGGER SHALL STOP TRAFFIC AND DIRECT THE PEDESTRIAN TO A SAFE ROUTE THROUGH THE WORK AREA. FLAGGERS SHALL COORDINATE THE FLAGGING OF THE WORK ZONE TO ENSURE PEDESTRIANS CAN SAFELY PROCEED THROUGH THE AREA. IF THERE IS MORE THAN THE OCCASIONAL PEDESTRIAN WITHIN THE PROJECT LIMITS, REFER TO THE SITE PEDESTRIAN WZTC PLAN.
5. HOLIDAY CLOSURE RESTRICTIONS: DAILY LANE, RAMP AND SHOULDER CLOSURES SHALL NOT BE PERMITTED ON STATE OWNED ROADWAYS DURING MAJOR HOLIDAYS.

   BELOW ARE HOLIDAY PERIODS BASED ON GUIDELINES FROM EI 17-010. ALL RESTRICTIONS ARE FROM 6:00 AM ON THE FIRST DAY UNTIL 6:00 AM ON THE LAST DAY OF THE RESTRICTION:

   2023
   6:00 AM FRIDAY, DECEMBER 30, 2022 THRU 6:00 AM TUESDAY, JANUARY 3, 2023 – (NEW YEAR'S HOLIDAY)
   6:00 AM FRIDAY, MAY 26, 2023 THRU 6:00 AM TUESDAY, MAY 30, 2023 – (MEMORIAL DAY HOLIDAY)
   6:00 AM SATURDAY, JULY 1, 2023 THRU 6:00 AM WEDNESDAY, JULY 5, 2023 – (JULY 4TH HOLIDAY)
   6:00 AM FRIDAY, SEPTEMBER 1, 2023 THRU 6:00 AM TUESDAY, SEPTEMBER 5, 2023 – (LABOR DAY HOLIDAY)
   6:00 AM WEDNESDAY, NOVEMBER 22, 2023 THRU 6:00 AM MONDAY, NOVEMBER 27, 2023 – (THANKSGIVING HOLIDAY)
   6:00 AM FRIDAY, DECEMBER 22, 2023 THRU 6:00 AM TUESDAY, DECEMBER 26, 2023 – (CHRISTMAS HOLIDAY)
   6:00 AM FRIDAY, DECEMBER 29, 2023 THRU 6:00 AM TUESDAY, JANUARY 2, 2024 – (NEW YEAR'S HOLIDAY)

   2024
   6:00 AM FRIDAY, DECEMBER 29, 2023 THRU 6:00 AM TUESDAY, JANUARY 2, 2024 – (NEW YEAR'S HOLIDAY)
   6:00 AM FRIDAY, MAY 24, 2024 THRU 6:00 AM TUESDAY, MAY 28, 2024 – (MEMORIAL DAY HOLIDAY)
   6:00 AM THURSDAY, JULY 4, 2024 THRU 6:00 AM MONDAY, JULY 8, 2024 – (JULY 4TH HOLIDAY)
   6:00 AM FRIDAY, AUGUST 30, 2024 THRU 6:00 AM TUESDAY, SEPTEMBER 3, 2024 – (LABOR DAY HOLIDAY)
   6:00 AM WEDNESDAY, NOVEMBER 27, 2024 THRU 6:00 AM MONDAY, DECEMBER 2, 2024 – (THANKSGIVING HOLIDAY)
   6:00 AM SATURDAY, DECEMBER 21, 2024 THRU 6:00 AM THURSDAY, DECEMBER 26, 2024 – (CHRISTMAS HOLIDAY)
   6:00 AM TUESDAY, DECEMBER 31, 2024 THRU 6:00 AM THURSDAY, JANUARY 2, 2025 – (NEW YEAR'S HOLIDAY)
6. NOTIFICATION REQUIREMENTS: REGION 3 HAS A WORK ZONE TRAFFIC CONTROL (WZTC) NOTIFICATION POLICY WHICH REQUIRES ENGINEERS/CONTRACTOR TO NOTIFY THE REGIONAL TRANSPORTATION MANAGEMENT CENTER (RTMC) PRIOR TO ALLOWING A CONTRACTOR TO IMPLEMENT WORK ZONE TRAFFIC CONTROL ACTIVITIES WITHIN THE HIGHWAY RIGHT OF WAY. WORK ZONE NOTIFICATION IS REQUIRED FOR THE FOLLOWING:

   ALL OTHER STATE HIGHWAYS: ALL LANE CLOSURES WHOSE DURATION WILL BE GREATER THAN 2 HOURS AND ALL ROAD/BRIDGE CLOSURES.

   THE CONTRACTOR SHALL REPORT PROPOSED WZTC ACTIVITIES NOTED ABOVE TO THE TMC BY NOON OF THE BUSINESS DAY (I.E. MONDAY THRU FRIDAY EXCLUDING HOLIDAYS) PRECEDING THE PROPOSED WZTC ACTIVITY. FAILURE TO DO SO WILL RESULT IN DISAPPROVAL TO PERFORM THE UNREPORTED WZTC ACTIVITY UNTIL THE ABOVE NOTIFICATIONS REQUIREMENTS ARE SATISFIED.

   NO PLANNED WZTC ACTIVITY SHALL BE IMPLEMENTED WITHOUT FIRST RECEIVING CLEARANCE FROM THE RTMC.
7. VEHICLE RESTRICTIONS: THE CONTRACTOR SHALL REPORT ANY RESTRICTION (AS DEFINED BELOW) ON HIGHWAYS, RAMPS, OR BRIDGES AT LEAST SIX (6) WEEKDAYS IN ADVANCE OF THE RESTRICTION. SIX (6) DAYS LEAD TIME IS NECESSARY TO PROVIDE THE RTMC ADEQUATE TIME TO PREVENT ISSUANCE OF SPECIAL HAULING PERMITS THAT WOULD ROUTE OVERSIZE VEHICLES OVER THE RESTRICTED SECTION OF THIS CONTRACT.

   RESTRICTIONS SHALL BE DEFINED AS ONE OR MORE OF THE FOLLOWING:
   1 – COMPLETE CLOSURE OF A HIGHWAY, RAMP, OR BRIDGE.
   2 – INSTALLATION OF BARRIER OR CHANNELIZING DEVICES THAT RESULT IN AN UNOBSTRUCTED WIDTH LESS THAN 16 FEET ALONG A HIGHWAY, RAMP OR BRIDGE.
   3 – SUITABLE DRIVING SURFACES OF LESS THAN 16 FEET IN WIDTH.
   4 – AVAILABLE VERTICAL CLEARANCE ABOVE THE HIGHWAY IS LESS THAN 14 FEET IN HEIGHT.
   5 – WORK WOULD LIMIT VEHICLE LENGTH (I.E. TURNING ABILITY)
   6 – CHANGING THE LOAD CAPACITY OF A HIGHWAY, RAMP OR BRIDGE.

   THE CONTRACTOR SHALL ALSO GIVE VERBAL NOTIFICATION AT LEAST SEVEN (7) BUSINESS DAYS (I.E. MONDAY THROUGH FRIDAY EXCLUDING HOLIDAYS) PRIOR TO AND AT THE END OF A RESTRICTION ON ANY ROADWAY TO THE:
   OSWEGO COUNTY: 911 CENTER (315) 343-1313
8. WORK AREA COORDINATION: THE CONTRACTOR SHALL COORDINATE WORK ACTIVITIES WITH OTHER CONTRACTS WITHIN AND/OR ADJACENT TO THE CONTRACT WORK LIMITS.
9. ACCESS: THE CONTRACTOR SHALL ENSURE THAT ACTIVE LANES OF TRAFFIC ON FREEWAYS ARE NOT CROSSED BY PEDESTRIAN WORKERS. FOR ALL OTHER HIGHWAYS, THE CONTRACTOR SHALL ENSURE THAT PEDESTRIAN WORKERS CROSS ACTIVE LANES OF TRAFFIC ONLY AT PROPERLY MARKED OR UNMARKED CROSSWALKS AND/OR DEDICATED PEDESTRIAN WALKWAYS. IT IS REQUIRED THAT THE PROJECT SAFETY AND HEALTH PLAN ADDRESS ACCESS TO EACH WORK AND STAGING AREA.

   WHERE IT IS FEASIBLE, VEHICLES AND EQUIPMENT USED FOR THE WORK AND TRANSPORTING OF WORKERS TO/FROM THE WORK SITE SHALL ENTER AND LEAVE THE AREA CLOSED BY CHANNELIZING DEVICES WITHIN THE TERMINATION AREA OF THE TEMPORARY TRAFFIC CONTROL ZONE. WHERE SUCH ACCESS WITHIN THE TERMINATION AREA IS NOT FEASIBLE, OTHER AREAS FOR ENTRY AND EXIT SHALL BE DETERMINED AND INCLUDED IN THE PROJECT SAFETY & HEALTH PLAN, INCLUDING ILLUSTRATED EXAMPLES (TYPICALS) TO CLEARLY SHOW THE TEMPORARY TRAFFIC CONTROL ELEMENTS THAT WILL BE PROVIDED.
10. CHANNELIZING DEVICES: ALL CHANNELIZING DEVICES SHALL BE PLACED SO AS TO PROVIDE A 2 FOOT LATERAL CLEARANCE TO THE TRAVELED WAY UNLESS OTHERWISE SHOWN ON THE PLANS. WHERE POSSIBLE A LATERAL BUFFER SPACE OF 2 FOOT MINIMUM SHALL BE PROVIDED BETWEEN THE WORK SPACE AND THE CHANNELIZING DEVICES.

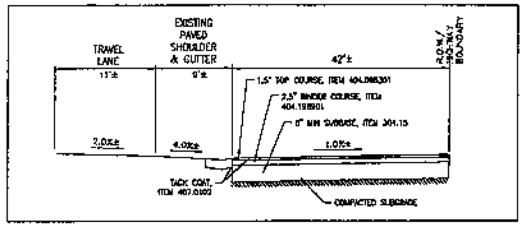
    CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL BE 40' MAXIMUM FOR POSTED SPEED LIMITS 40 MPH OR GREATER AND 20' MAXIMUM FOR POSTED SPEED LIMITS 35 MPH OR LESS.

    STANDARD CONES AND TUBULAR MARKERS SHALL NOT BE USED FOR CHANNELIZATION AND DELINEATION DURING THE HOURS OF DARKNESS, WHICH IS DEFINED AS THE PERIOD BETWEEN SUNSET AND SUNRISE.
11. SIGNS: ALL CONSTRUCTION SIGNS SHALL BE MOUNTED AT A HEIGHT OF 7 FEET ABOVE THE EDGE OF TRAVEL LANE.

    SIGNS SHALL NOT ENCROACH MORE THAN 4" INTO SHOULDERS USED BY PEDESTRIANS OR BICYCLES.

    WHERE SHOULDER WIDTHS ARE LIMITED AND SIGNS CANNOT BE ERECTED BEYOND THE SHOULDER, CONSTRUCTION SIGNS MAY NEED TO BE MOUNTED ON CONCRETE MEDIAN BARRIERS, BRIDGE PARAPETS, ETC.
12. DELINEATORS: SINGLE LARGE DELINEATORS WITH RETROREFLECTIVE ASTM TYPE IX SHEETING 6" X 12", SHALL BE INSTALLED AT 20 FOOT INTERVALS FOR ALL LOCATIONS WHERE TEMPORARY CONCRETE BARRIER IS USED AND FOR ALL LOCATIONS WHERE PERMANENT CONCRETE BARRIER, GUIDE RAILING, AND/OR BRIDGE RAILING IS ADJACENT TO A LANE AND/OR SHOULDER WHERE THE WIDTH IS LESS THAN EXISTING. THE COLOR OF THE RETROREFLECTIVE DELINEATOR SURFACE SHALL MATCH THE COLOR OF THE EDGE OF PAVEMENT MARKINGS AS VIEWED BY APPROACHING TRAFFIC. DELINEATORS SHALL BE CLEARLY VISIBLE UNDER NORMAL CONDITIONS FROM A DISTANCE OF 1000 FEET WHEN ILLUMINATED BY THE HIGH BEAMS OF STANDARD AUTOMOBILE HEADLIGHTS. THE COST (INCLUDING REMOVAL) SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01, BASIC WORK ZONE TRAFFIC CONTROL.
13. MISCELLANEOUS (LOCAL OR PERMIT PROJECTS):
    1 – THE CONTRACTOR SHALL BE AWARE THAT THE WORK ZONE TRAFFIC CONTROL IS A VERY CRITICAL ITEM OF THE PERMIT AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 "WORK ZONE TRAFFIC CONTROL" OF THE STANDARD SPECIFICATIONS, THE 2009 EDITION OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK ZONE TRAFFIC CONTROL AT ALL TIMES FOR THE DURATION OF THE PERMITTED WORK.
    2 – ACTUAL FIELD CONDITIONS MAY REQUIRE OTHER SIGNS AND OTHER ARRANGEMENTS OF SIGNS. DISTANCES SHALL BE ADAPTED TO PREVAILING CONDITIONS. SIGNS SHALL BE LOCATED TO PROVIDE OPTIMUM VISIBILITY. SIGNS THAT ARE NOT APPLICABLE SHALL BE COVERED OR OBSCURED FROM SIGHT. ALL SIGN NUMBERS REFER TO THE 2009 EDITION OF THE NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE NEW YORK STATE SUPPLEMENT.
    3 – PEDESTRIAN ACCOMMODATIONS SHALL BE MAINTAINED FOR THE DURATION OF THE PROPOSED WORK. ANY DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE ADEQUATELY FENCED TO PREVENT PEDESTRIAN ACCESS WHEN THE CONTRACTORS OPERATIONS ARE SHUT DOWN.

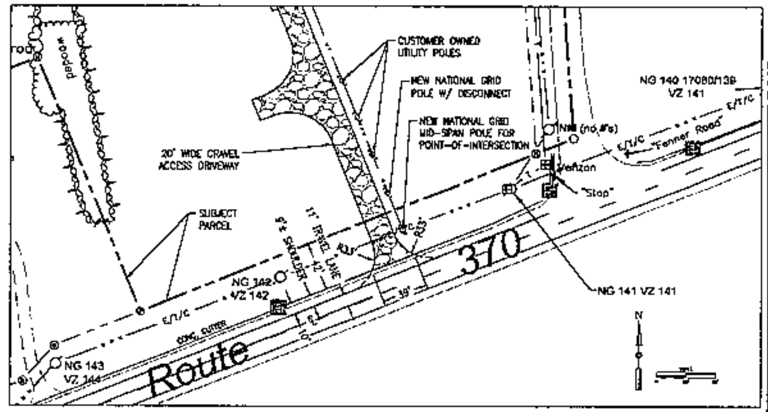
    4 – MATERIALS, EQUIPMENT AND VEHICLES SHALL NOT BE STORED OR PARKED WITHIN THE STATE RIGHT-OF-WAY BEFORE WORK BEGINS OR AFTER CONTRACTOR'S OPERATIONS ARE SHUT DOWN. STAGING AREAS OUTSIDE THE RIGHT-OF-WAY SHALL BE USED TO STOCKPILE ALL CONSTRUCTION MATERIALS.
    DURING WORKING HOURS, NO CONSTRUCTION MATERIAL MAY BE STORED OR PLACED ON THE ROADWAY OR ROADBED EXCEPT WITHIN A PROTECTED WORK AREA.
    5 – VEHICLES BELONGING TO THE CONTRACTOR OR WORKERS SHALL NOT BE PARKED WITHIN 30 FEET OF THE EDGE OF PAVEMENT ALONG A ROADWAY BEING USED BY THE GENERAL PUBLIC, UNLESS THEY ARE PARKED WITHIN A PROTECTED WORK AREA.
    DURING NON-WORKING HOURS, CONSTRUCTION EQUIPMENT AND MATERIALS SHALL NOT BE STORED WITHIN 30 FEET OF THE EDGE OF PAVEMENT.
    6 – W20-7A "FLAGGER" SIGNS SHALL BE USED WHENEVER FLAGGING OCCURS FOR MORE THAN A BRIEF PERIOD OF TIME. THE SIGNS SHALL BE PROMPTLY REMOVED, COVERED, OR FACED AWAY FROM TRAFFIC WHEN THE FLAGGING OPERATION CEASES.
    ALL FLAGGING STATIONS AND LANE CLOSURES SHOULD BE LOCATED TO ENSURE MAXIMUM VISIBILITY.
    7 – NO DROP-OFF GREATER THAN SIX INCHES SHALL BE LEFT OVERNIGHT WITHIN 30 FEET OF THE EDGE OF PAVEMENT. DROP-OFFS LESS THAN SIX INCHES WILL BE PERMITTED IF PROPER DELINEATION AND SIGNING IS PROVIDED, AND PRIOR PERMISSION IS GRANTED IN WRITING BY A REPRESENTATIVE OF THE DEPARTMENT. A DROP-OFF IS CONSIDERED ELIMINATED IF TAPERED AWAY BY A 1 ON 6 SLOPE OR FLATTER.
    8 – CARE SHALL BE TAKEN TO INSURE THAT NO DAMAGE OCCURS TO THE EXISTING PAVEMENT/SHOULDER/CURB AREAS AS A RESULT OF CONSTRUCTION EQUIPMENT MOVEMENT.
    9 – THE CONTRACTOR MAY SUBMIT REVISIONS TO THIS PLAN FOR APPROVAL, BUT ANY CHANGE THAT ALTERS THE BASIC CONCEPTS OF THE PLAN MUST BE APPROVED BY THE NYSDOT REGIONAL DIRECTOR OR HIS DESIGNEE.



(1) PROPOSED DRIVEWAY SECTION

DRIVEWAY CONSTRUCTION NOTES:

1. SHOULDER THICKNESSES: ONLY REQUIRED IF DAMAGED DURING CONSTRUCTION
   1.5" – 9.5mm F3 TOP COURSE, 80 SERIES COMPACTION, ITEM 404.098301
   2.0" – 19.0mm F9 BINDER COURSE, 80 SERIES COMPACTION, ITEM 404.198901
   2–3.0" – LIFTS OF 25.0mm F9 BASE COURSE, 80 SERIES COMPACTION, ITEM 404.258901
   12" MIN – SUBBASE COURSE, OPTIONAL TYPE, ITEM 304.15
2. DRIVEWAY THICKNESSES WITHIN THE NYSDOT ROW
   1.5" – 9.5mm F3 TOP COURSE, 80 SERIES COMPACTION, ITEM 404.098301
   2.5" – 19.0mm F9 BINDER COURSE, 80 SERIES COMPACTION, ITEM 404.198901
   8" MIN – SUBBASE COURSE, OPTIONAL TYPE, ITEM 304.15
3. DILUTED TACK COAT, ITEM 407.0102, MUST BE APPLIED BETWEEN ALL LAYERS AND ON VERTICAL SURFACES



PROPOSED DRIVEWAY ENTRANCE DETAIL

SIGHT DISTANCE EVALUATIONS (NHS. DESIGN SPEED 60MPH)

1. USING AN EYE OFFSET OF 32' FROM THE CENTER OF ROAD WITH AN EXITING POSITION AT THE CENTER OF THE PROPOSED DRIVEWAY ENTRANCE/EXIT, THE FOLLOWING WAS OBSERVED:

   A. INTERSECTION SIGHT DISTANCE (EYE & OBJECT HEIGHT OF 3.5', REQUIRED SIGHT DISTANCE 570' PER HDM EXHIBIT 7-7 & HDM APPENDIX)
      - WEST SIGHT DISTANCE IS 900'±.
      - EAST SIGHT DISTANCE IS >600'.

   B. STOPPING SIGHT DISTANCE (EYE HEIGHT OF 3.5' & OBJECT HEIGHT OF 2', REQUIRED SIGHT DISTANCE 570' PER HDM EXHIBIT 7-7)
      - WEST SIGHT DISTANCE IS 905'±
      - EAST SIGHT DISTANCE IS >600'.

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

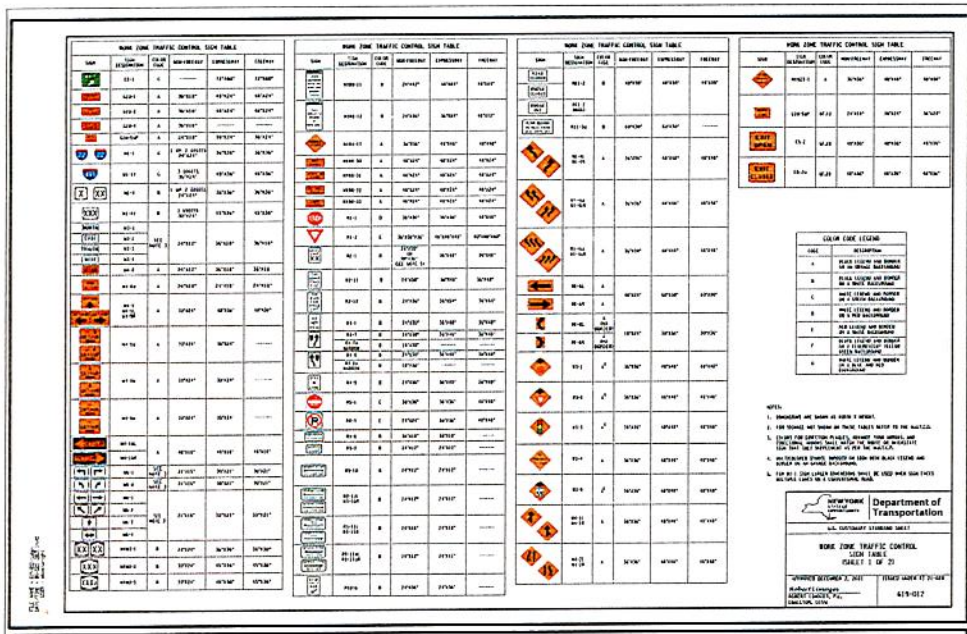
4/27/2023

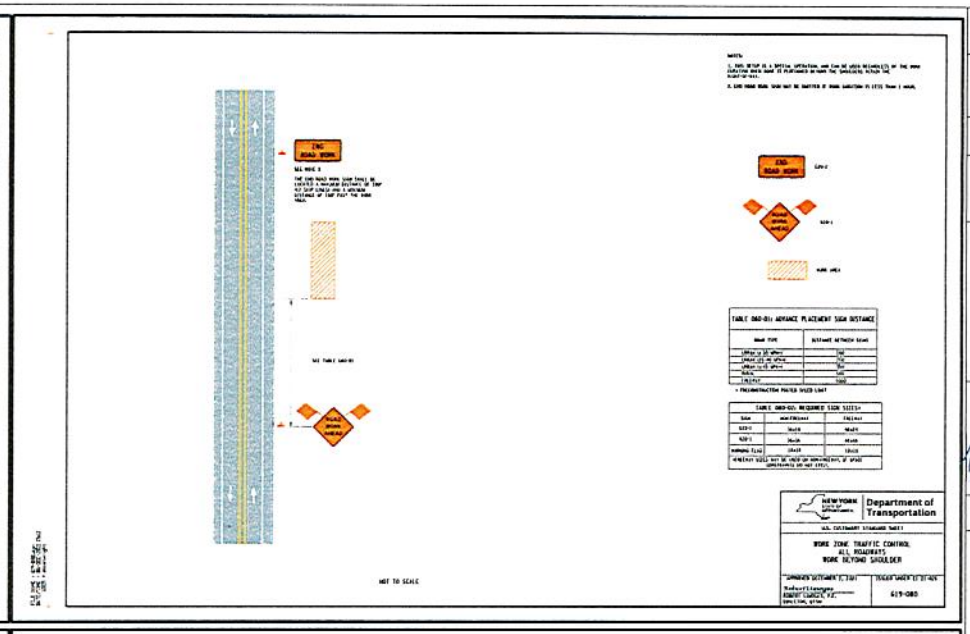
WEST GENESEE ROAD SOLAR 1, LLC
1235 WEST GENESEE ROAD
LYSANDER, NY 13027

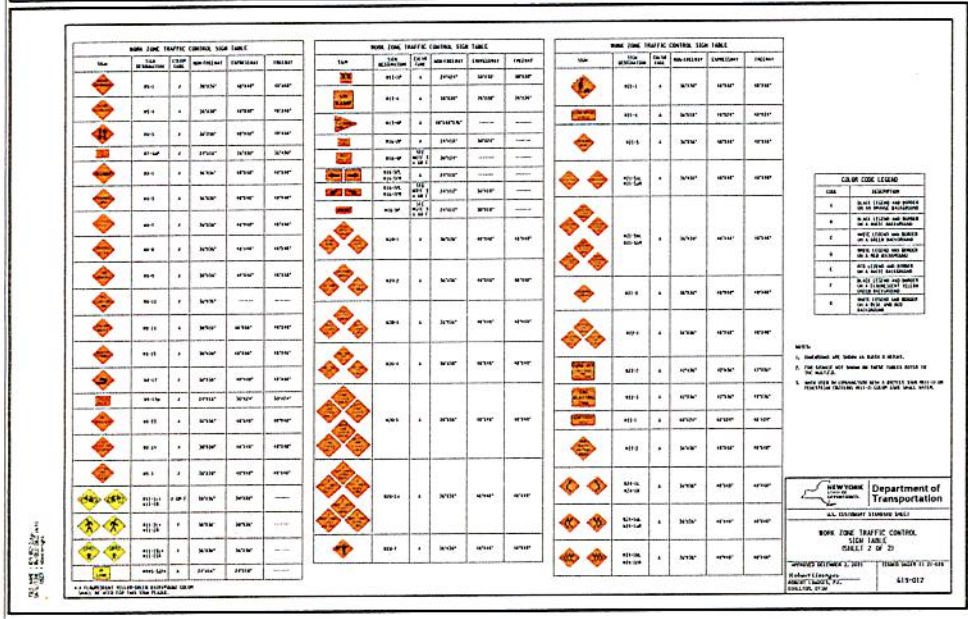
PROJECT NUMBER: 22-0469

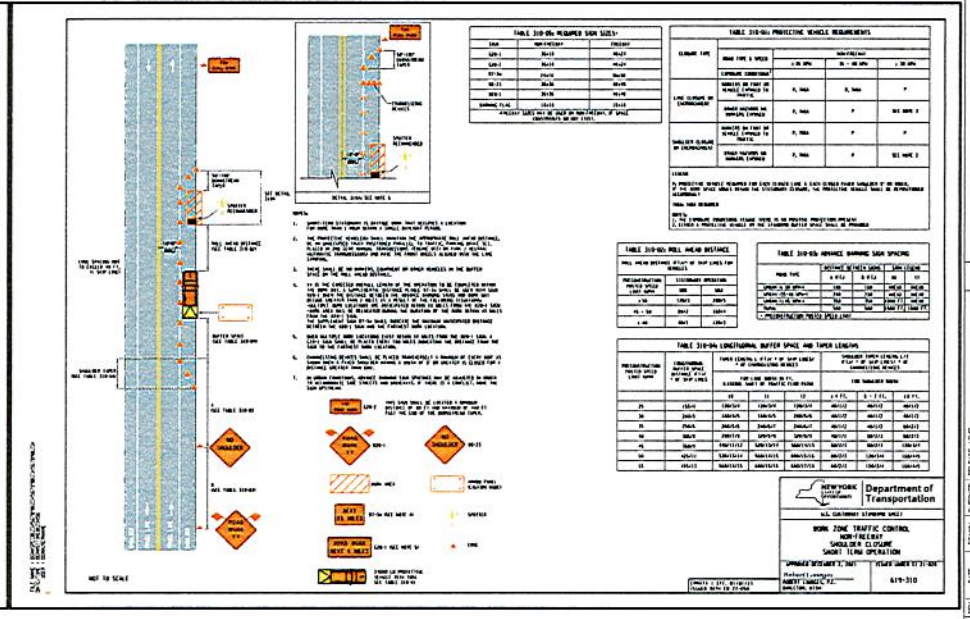
REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	04/27/23	SR/KR	MOK	SUP UPDATE
2	06/27/23	SR/KR	MOK/SG	SUP UPDATE

C-5.2
DRIVEWAY PERMIT DETAILS









new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

4/27/2023

WEST GENESEE ROAD SOLAR 1, LLC
1235 WEST GENESEE ROAD
LYSANDER, NY 13027

PROJECT NUMBER: 22-0460

REV	DATE	DRAWN	CHECKED	RELEASE INFO.
1	04/27/23	SR/KR	MDK/SR	SUP UPDATE
2	06/27/23	SR/KR	MDK/SR	SUP UPDATE

C-5.3
DRIVEWAY PERMIT DETAILS

Department of Transportation

WORK ZONE TRAFFIC CONTROL
GENERAL NOTES

619-010

Department of Transportation

WORK ZONE TRAFFIC CONTROL
GENERAL TABLES AND LEGEND

619-011

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

4/27/2023

WEST GENESEE ROAD SOLAR 1, LLC
1235 WEST GENESEE ROAD
LYSANDER, NY 13027

PROJECT NUMBER:
22-0469

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	04/27/23	SR/KR	MCK	SUP UPDATE
2	06/27/23	SR/KR	MCK/SR	SUP UPDATE

C-5.4

DRIVEWAY PERMIT DETAILS

LANDSCAPING NOTES:

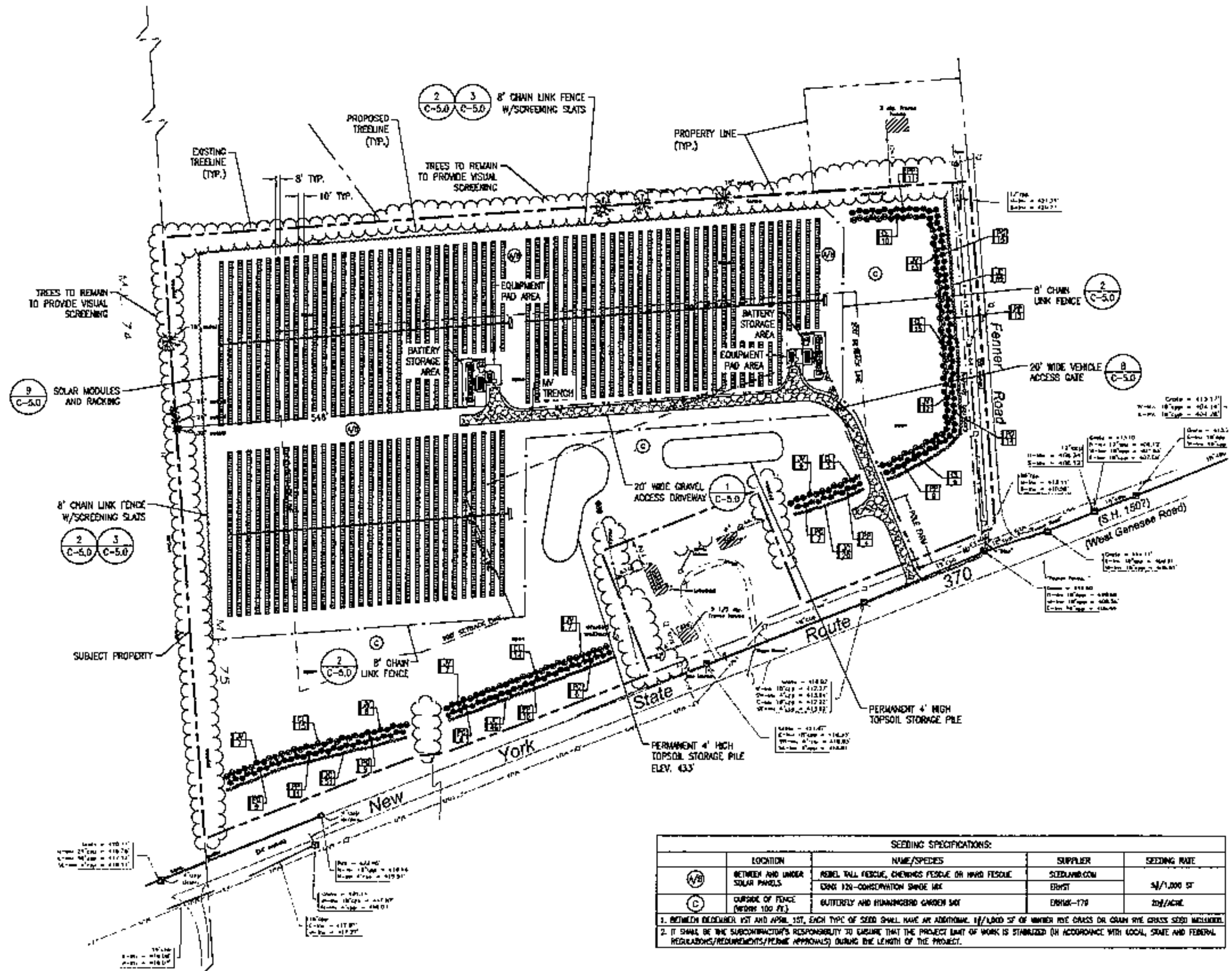
1. QUALITY ASSURANCE
   A. NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE.
   B. SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. (AAN), UNLESS OTHERWISE SPECIFIED.
   C. NURSERY SOURCES: OBTAIN FRESHLY DUG, HEALTHY, VIGOROUS, PLANTS NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 2 YEARS. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED, AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. ALL PLANTS SHALL HAVE BEEN TRANSPLANTED OR ROOT PRUNED AT LEAST ONCE IN THE PAST 3 YEARS. BALLED AND BURLAPPED PLANTS MUST COME FROM SOIL WHICH WILL HOLD A FIRM ROOT BALL. HEELED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
   D. SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF TREES AND/OR SHRUB MATERIALS. IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL. WHEN AUTHORIZED, ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
2. SEEDING & PLANTING SEASONS AND TIMING CONDITIONS:
   A. UNLESS OTHERWISE DIRECTED IN WRITING, SEED LAWNS FROM MARCH 15 TO MAY 15, AND FROM AUGUST 15 TO NOVEMBER 15.
   B. UNLESS OTHERWISE DIRECTED IN WRITING THE PLANTING OF TREES AND SHRUBS SHALL BE FROM MARCH 15 TO JUNE 1, AND FROM SEPTEMBER 1 TO DECEMBER 15.
   C. PROCEED WITH AND COMPLETE SEEDING WORK AS RAPIDLY AS PORTIONS OF THE SITE BECOME AVAILABLE, WORKING WITHIN THE SEASONAL LIMITATIONS FOR EACH KIND OF LANDSCAPE WORK REQUIRED.
   D. PROVIDE TEMPORARY ANNUAL RYEGRASS COVER FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
3. PRODUCTS:
   A. IMPORTED TOPSOIL: PROVIDE TOPSOIL CONFORMING TO THE FOLLOWING:
      A.1. ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND FREE OF DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE FOREIGN MATERIAL.
      A.2. CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLE PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105' C.
      A.3. CONTAINING A pH VALUE WITHIN THE RANGE OF 6.5-7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" SIEVE.
      A.4. CONTAINING THE FOLLOWING WASHED GRADATIONS:

SIEVE DESIGNATION	% PASSING
1"	100
100 1/4"	97 - 100
NO. 200	20 - 65 (OF THE 1/4" SIEVE)

   B. SEED MIXTURE: SEE SEED MIXTURE TABLE, THIS SHEET. PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS.
   C. LIME: NATURAL LIMESTONE CONTAINING AT LEAST 85% OF TOTAL CARBONATES, GROUND TO SUCH FINENESS THAT AT LEAST 90% PASSES A 10-MESH SIEVE AND AT LEAST 50% PASSES A 100- MESH SIEVE.
   D. FERTILIZER:
      D.1. FOR SPRING SEEDING: COMMERCIAL STARTER FERTILIZER, GRANULAR, NONBURNING PRODUCT CONTAINING 10% NITROGEN, 6% AVAILABLE PHOSPHORUS, AND 4% WATER SOLUBLE POTASH (10-6-4).
      D.2. FOR FALL SEEDING: COMMERCIAL STARTER FERTILIZER, GRANULAR, NONBURNING PRODUCT CONTAINING 5% NITROGEN, 10% AVAILABLE PHOSPHORUS, AND 5% WATER SOLUBLE POTASH (5-10-5).
      D.3. FOR FINAL FERTILIZING: IF APPLIED IN SPRING SEASON, SHALL BE A SLOW RELEASE COMMERCIAL FERTILIZER, GRANULAR, WITH HIGH NITROGEN, 38% URAMITE OR APPROVED EQUAL. IF APPLIED IN FALL SEASON, SHALL BE AS SPECIFIED IN (3.D.2) ABOVE.
   E. TREES AND SHRUBS:
      E.1. PLANTING SOIL MIXTURE: SHALL BE PROVIDED IN BULK, AND CONTAIN THE FOLLOWING BY VOLUME:
         20 PARTS TOPSOIL
         10 PARTS PEAT
         1 PART BONE MEAL
      E.2. PEAT: BROWN TO BLACK IN COLOR, WEED AND SEED FREE, DRIED SPHAGNUM PEAT. CONTAINING NOT MORE THAN 9% MINERAL ON A DRY BASIS AND CONFORMING TO NYSDOT 713-20.
      E.3. BONE MEAL: FINELY GROUND, RAW, MINIMUM 4% NITROGEN AND 20% PHOSPHORIC ACID. IT SHALL BE DELIVERED IN SEALED BAGS SHOWING THE MANUFACTURER'S GUARANTEED ANALYSIS.
      E.4. STAKES: 8 FT LONG, 2 IN WIDE WOOD STAKES.
      E.5. HOSE: NEW, 2-PLY GARDEN HOSE NOT LESS THAN 1/2 INCH IN DIAMETER.
      E.6. MULCH: GROUND OR SHREDDED BARK, MEDIUM SIZE FROM HARDWOOD TREES. NO PIECES OVER 2 INCHES GREATEST DIMENSION. FREE FROM SAWDUST, STONES, DEBRIS, AND DELETERIOUS MATERIALS. APPLIED TO A DEPTH OF 3 INCHES.
4. EXECUTION
   A. LANDSCAPE WORK SHALL BE UNDERTAKEN AS SOON AS SITE AREAS ARE AVAILABLE.
   B. TOPSOIL SHALL BE SPREAD NO LESS THAN 4" OVER SOIL AREAS AND A MINIMUM OF 6" THICK OVER GRAVEL. SOIL AMENDMENTS SHALL BE THOROUGHLY MIXED INTO THE TOP 4" OF TOPSOIL, FOLLOWING THE SPECIFICATIONS STATED BELOW.
   C. PERFORM FINE GRADING TO FINISHED ELEVATION ONLY IMMEDIATELY PRIOR TO PLANTING. PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN SURFACE, FREE OF DEPRESSIONS OR RIDGES WITH A UNIFORM LOOSE, FINE TEXTURE.
   D. THE SOIL SHALL BE TESTED FOR pH AND LIME ADDED IF NECESSARY TO AMOUNT RECOMMENDED FOR EACH PLANT SPECIES. ALL AMENDMENTS SHALL BE CHECKED AND APPROVED BY LANDSCAPE ARCHITECT BEFORE AMENDMENTS ARE MADE.
   E. LAWN:
      E.1. PRIMARY SEED MIX: SEED AT THE RATES SPECIFIED. SEE SEEDING TABLE ON THIS SHEET.
      E.2. TEMPORARY COVER SEED MIX: SEED AT THE RATE OF 4 TO 5 LBS PER 1,000 SF.
      E.3. TEMPORARY COVER SEED MIX TO BE APPLIED ONLY FOR WINTER OR SUMMER SOIL STABILIZATION OUTSIDE ALLOWED SEEDING PERIODS.
   F. ALL SEEDED AREAS SHALL BE PROTECTED FROM EROSION BY A UNIFORM BLANKET OF STRAW OR HYDROMULCH, PER MANUFACTURE'S RECOMMENDATION.
   G. ALL SEEDED SLOPES GREATER THAN 3:1 SHALL BE PROTECTED FROM EROSION WITH JUTE MESH OR APPROVED EQUAL.
   H. ALL NEWLY PLANTED AREAS SHALL BE KEPT MOIST BY WATERING UNTIL GRASSES ARE WELL ESTABLISHED. THE LANDSCAPE CONTRACTOR MUST WATER TREES WHEN NECESSARY FOR 60 DAYS AFTER COMPLETION.
   I. LAWNS ARE TO BE WARRANTED UNTIL THEY HAVE BECOME ESTABLISHED, UNTIL FINAL ACCEPTANCE, AND NOT LESS THAN 60 DAYS AFTER COMPLETION OF ALL WORK. TREES AND SHRUBS SHALL BE WARRANTED AGAINST DEFECTS INCLUDING POOR GROWTH AND DEATH, EXCEPT WHEN RESULTING FROM OWNER NEGLECT, INCIDENTS THAT ARE BEYOND THE CONTROL OF THE LANDSCAPE INSTALLER AND DAMAGE OR ABUSE BY OTHERS, FOR AT LEAST ONE FULL YEAR AFTER PROJECT COMPLETION.

GENERAL NOTES:

1. TREES SHALL NOT BE PLANTED IN WETLANDS. TREES TO BE PLANTED IN WETLAND BUFFER SHALL BE PLANTED BY HAND AND NOT WITH HEAVY EQUIPMENT.
2. MAINTAIN 20' CLEAR ZONE BETWEEN THE LANDSCAPE PLANTINGS AND THE FENCING UNLESS NOTED OTHERWISE.
3. GAPS SHOWN BETWEEN PLANTING GROUPS SHALL BE NO WIDER THAN 30'.
4. TREES SHALL BE TRIMMED AS NEEDED TO AVOID SHADING/PRODUCTION IMPACTS.
5. ALL TREES AND SHRUBS ARE TO BE SET / INSTALLED IN A MINIMUM 4"-6" DEEP BED OF MULCH EXTENDING TO 4" PAST THE DRIP LINE OF EACH PLANTING.



SEEDING SPECIFICATIONS:				
	LOCATION	NAME/SPECIES	SUPPLIER	SEEDING RATE
(A/B)	BETWEEN AND UNDER SOLAR PANELS	REBEL TALL FESCUE, CHEWINGS FESCUE OR HARD FESCUE	SEEDLAND.COM	5#/1,000 SF
		ERNX 128-CONSERVATION SHADE MIX	ERNST	
(C)	OUTSIDE OF FENCE (WIDTH 100 FT.)	BUTTERFLY AND HUMMINGBIRD GARDEN MIX	ERNMX-179	20#/ACRE
1. BETWEEN DECEMBER 1ST AND APRIL 1ST, EACH TYPE OF SEED SHALL HAVE AN ADDITIONAL 1#/1,000 SF OF WINTER RYE GRASS OR GRAIN RYE GRASS SEED INCLUDED.				
2. IT SHALL BE THE SUBCONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE PROJECT LIMIT OF WORK IS STABILIZED (IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS/REQUIREMENTS/PERMIT APPROVALS) DURING THE LENGTH OF THE PROJECT.				

ANNUAL INSPECTION AND MAINTENANCE
ALL PLANTS THAT HAVE RECEIVED DEER DAMAGE, ARE DEAD OR NOT IN GOOD CONDITION, SHALL BE REPLACED WITHIN 1 YEAR. PLANTS THAT HAVE RECEIVED DEER DAMAGE SHALL NOT BE REPLACED IN-KIND. THE SITE SHALL BE INSPECTED ANNUALLY BY THE TOWN ENGINEER TO DETERMINE TREES AND SHRUBS THAT NEED TO BE REPLACED.

PLANT LIST

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS	SPACING	MATURE HT/SPREAD	GROWTH RATE
EVERGREEN TREES									
PG	85	PICEA GLAUCA 'DENSATA'	BLACK HILLS SPRUCE	7-8' TALL	B&B		10' O.C.*	40'HT/20'SP	12"/YR
PP	64	PICEA PUNGENS 'BABY BLUE'	BABY BLUE BLUE SPRUCE	7-8' TALL	B&B		10' O.C.*	40'HT/20'SP	2-3'/YR
JV	63	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	7-8' TALL	B&B		10' O.C.*	65'HT/25'SP	1-2'/YR
CL	68	X CUPRESSOCYPARIS LEYLANDII	LEYLAND CYPRESS	7-8' TALL	B&B		10' O.C.*	50'HT/20'SP	3-4'/YR
SHRUBS									
JC	209	JUNIPERUS COMMUNIS	COMMON JUNIPER	3-4' TALL	#5 CONT.		4' O.C.	15'HT/4'SP	4-6"/YR

* = TO BE PLANTED IN TWO STAGGERED ROWS AT THE SPACING INDICATED. ROW SPACING BETWEEN SHRUB LINE AND FRONT ROW OF TREES TO BE 4'-5'.

LANDSCAPING PLAN

SCALE: 1"=100'

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

4/27/2023

WEST GENESEE ROAD SOLAR 1, LLC
1235 WEST GENESEE ROAD
LYSANDER, NY 13027

PROJECT NUMBER: 22-0459

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	04/27/23	SR/KR	MDK	SUP UPDATE
2	05/27/23	SR/KR	MDK/SR	SUP UPDATE

C-6.0
LANDSCAPING PLAN

Application to the Planning Board

For: X Subdivision of Land
Number of Lots 3
____ Controlled Site Use
X Site Plan Approval

Date: 3/29/23
____ Information Only
____ Preliminary
____ Final

Name of proposed development: 3354 Cold Springs Solar, LLC

Applicant:

Name 3354 Cold Springs Solar, LLC

Address 55 Technology Dr, suite 102 Lowell, MA

Telephone:

Owner of record:

Name Landmark Challenger, LLC

Address 621 Columbia St Cohoes, NY

Telephone: 518-469-1914

Proof of ownership attached: X

Site Location:

3400 Cold Springs Road

Proposed use (s) of site:

Solar Farm

Current use & condition of site:

Farm, forest, wetlands

Plans prepared by:

Name New Leaf Energy & Erdman Anthony

Address 22 Century Hill Dr, Suite 303 Latham, NY
145 Culver Road, Suite 200 I Rochester, NY 14620

Telephone: (315) 378-9567/ (585) 427-8888, ext. 1012

Ownership intentions:

Name Landmark Challenger, LLC

Address 621 Columbia St Cohoes, NY

Telephone: 518-469-1914

Farm Lot No. Ag District 3

Tax Map No. 064-03-2.1

Current Zoning AR-40, Incentive Overlay

Is site in an Agricultural Tax District?

Area of land 100.4 acres.

Plans for sewer and water connections

No

Character of surrounding:

Rural residential, farm, forest, wetlands

SEE REVERSE SIDE FOR ADDITIONAL SUBMITTAL REQUIREMENTS!

Name of Owner or Representative

Terrence Nolan, Project Developer

Signature

Date: 3/30/2023

PB 3-30-23 - 008

Short Environmental Assessment Form
Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information

Name of Action or Project:

3354 Cold Springs - Minor Subdivision

Project Location (describe, and attach a location map):

3400 Cold Springs Rd., Baldwinsville, NY 13027

Brief Description of Proposed Action:

The existing parcel (Tax ID: 64-03-2.1) is owned by Landmark Challenger, LLC, and will be subdivided into three parcels. Parcel 1 on the west side, will be approximately 14.072 Acres. Parcel 2 on the east side, will be approximately 41.592 Acres. And Parcel 3 in the middle, will be approximately 44.781 Acres.

Name of Applicant or Sponsor:	Telephone: 908-892-0811
3353 Cold Springs Solar, LLC in care of New Leaf Energy, INC	E-Mail: tnolan@newleafenergy.com

Address:

55 Technology Dr., Suite 102

City/PO:	State:	Zip Code:
Lowell	MA	01951

	NO	YES
1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.	☑	☐
2. Does the proposed action require a permit, approval or funding from any other government Agency? If Yes, list agency(s) name and permit or approval:	☑	☐

3. a. Total acreage of the site of the proposed action? 100.781 acres
   b. Total acreage to be physically disturbed? 0 acres
   c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 294 acres

4. Check all land uses that occur on, are adjoining or near the proposed action:

5. ☐ Urban ☐ Rural (non-agriculture) ☐ Industrial ☐ Commercial ☐ Residential (suburban)
   ☑ Forest ☑ Agriculture ☐ Aquatic ☐ Other(Specify):
   ☐ Parkland

	NO	YES	N/A
5. Is the proposed action,			
a. A permitted use under the zoning regulations?	☐	☑	☐
b. Consistent with the adopted comprehensive plan?	☐	☑	☐

	NO	YES
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?	☐	☑

	NO	YES
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		
If Yes, identify: _____	☑	☐

	NO	YES
8. a. Will the proposed action result in a substantial increase in traffic above present levels?	☑	☐
b. Are public transportation services available at or near the site of the proposed action?	☑	☐
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?	☑	☐

	NO	YES
9. Does the proposed action meet or exceed the state energy code requirements?		
If the proposed action will exceed requirements, describe design features and technologies: _____ _____	☑	☐

	NO	YES
10. Will the proposed action connect to an existing public/private water supply?		
If No, describe method for providing potable water: _____ _____	☑	☐

	NO	YES
11. Will the proposed action connect to existing wastewater utilities?		
If No, describe method for providing wastewater treatment: _____ _____	☑	☐

	NO	YES
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	☐	☑
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	☐	☑

	NO	YES
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	☐	☑
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?	☑	☐
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres: _____ _____ _____		

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:

☐ Shoreline ☑ Forest ☑ Agricultural/grasslands ☐ Early mid-successional

☑ Wetland ☐ Urban ☐ Suburban

	NO	YES
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered? Indiana Bat, Bald Eagle	☐	☑
16. Is the project site located in the 100-year flood plan?	☑	☐
17. Will the proposed action create storm water discharge, either from point or non-point sources? If Yes,	☑	☐
a. Will storm water discharges flow to adjacent properties?	☐	☐
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe: _____ _____	☐	☐
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)? If Yes, explain the purpose and size of the impoundment: _____ _____	☑	☐
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility? If Yes, describe: _____ _____	☑	☐
20.Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste? If Yes, describe: _____ _____	☑	☐

I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE

Applicant/sponsor/name: Marc Kenward Date: May 3, 2023

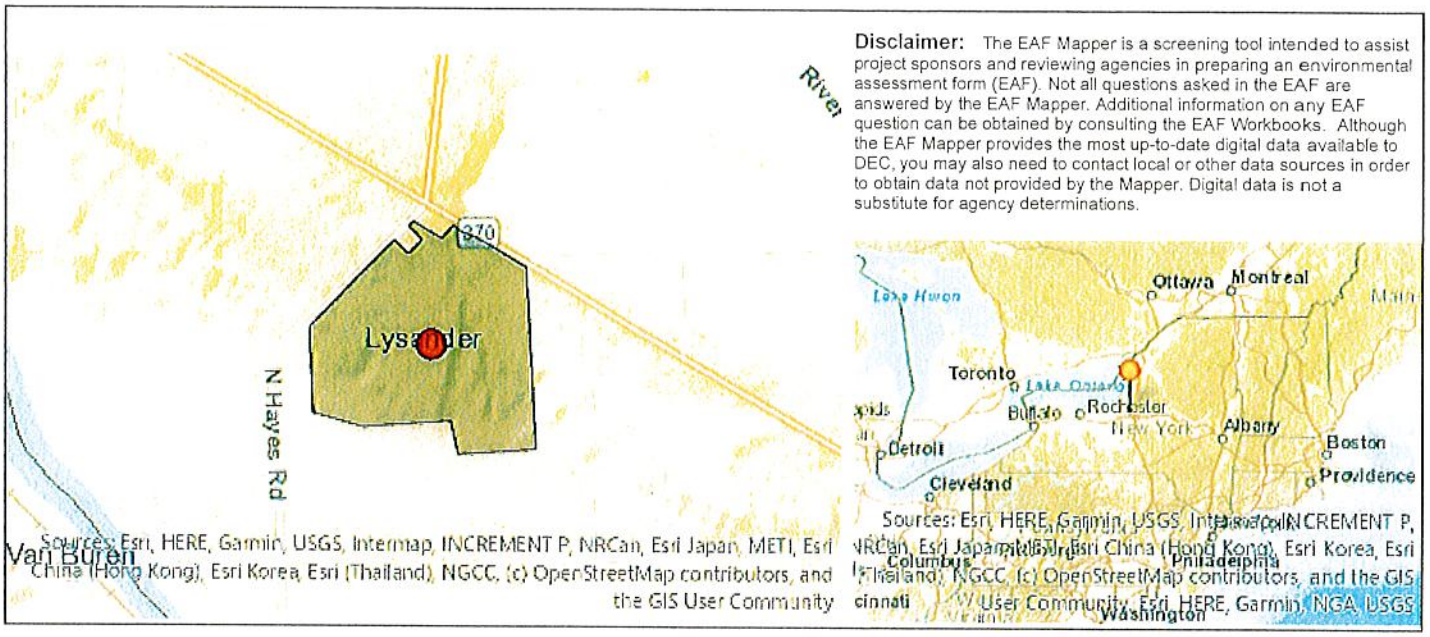
Signature: Marc Kenward Title: Senior Associate

Erdman Anthony Consulting Engineers
145 Culver Road, Suite 200
Rochester, NY 14620
Phone: (585) 427 - 8888
Email: KenwardMD@erdmananthony.com

PRINT FORM

EAF Mapper Summary Report

Wednesday, May 3, 2023 10:56 AM



Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	Yes
Part 1 / Question 12b [Archeological Sites]	Yes
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	Yes
Part 1 / Question 15 [Threatened or Endangered Animal - Name]	Indiana Bat, Bald Eagle
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	No

TOWN OF LYSANDER
8220 Loop Rd
Baldwinsville, NY 13027

Planning Board
(315) 638-4819

AGRICULTURAL DATA STATEMENT

This statement is required by Section 283-a, New York State Town Law, for any proposed project that would occur (a) on property within an Agricultural District containing a farm operation, or (b) on property with boundaries within 500 feet of a farm operation located with an Agricultural District.

A. Name of applicant: 3354 Cold Springs Solar, LLC in care of New Leaf Energy, Inc.

Mailing address: 55 Technology Dr, suite 102

Lowell, MA 01851

B. Description of the proposed project: Installation of a large scale, ground mounted, solar photovoltaic system. A subdivision of the existing property is proposed, with a resulting solar parcel area of 47 AC±

The project will consist of a 5 MW AC system with 11,928 ± panels

C. Project location: 3400 Cold Springs Rd, Baldwinsville, NY 13027

D. Tax Map number: 64-03-2.1

E. Number of acres involved with project: 100 +/-

F: Is project with Agricultural District? Yes X No ____
Is project within 500 feet of an Agricultural District? Yes X No ____

G. Is any portion of the project site currently being farmed?

Yes X If so, how much? +/- 40 Acres
No ____

H. Please identify name and address of who is farming the project site and/or any sites within 500 feet.

See attached

I. Please indicate what the intentions are for use of the remainder of the project site:

The subject parcel will be subdivided. The largest parcel will be used for a solar farm, the subject of this application.

The remaining parcels will be used for future development.

J. Who will maintain the remainder of the property not being used for this development?

The landowner will maintain any of the property outside the solar farm lease area

K. Other Project Information. Please include information about the existing land cover of the site, any known impacts on existing storm water drainage (including field tiles), or other significant plant materials:

The existing land is mainly used for farming, with portions being wooded and wetland. The wooded and wetland areas will be minimally disturbed. Storm water drainage currently sheet flows to the onsite wetlands. Drainage patterns will be maintained to the extent feasible.

L. Please make a copy of the overall (original) parcel from the Towns' Tax Maps on file with the Town Assessor's Office. Identify the site of this application by placing an "X" on it. Include the tax map with this completed agricultural date statement.

M. Description of farm operation: Existing farm primarily used for row crops, esp. corn

~ ~

FARM NOTE

Prospective residents should be aware that such farm operations may generate dust, odor, smoke, noise, vibration and other conditions which routinely result from agricultural activities.

~ ~

Terrence Nolan, Project Developer	3/30/2023
Name and Title of Person Competing Form	Date

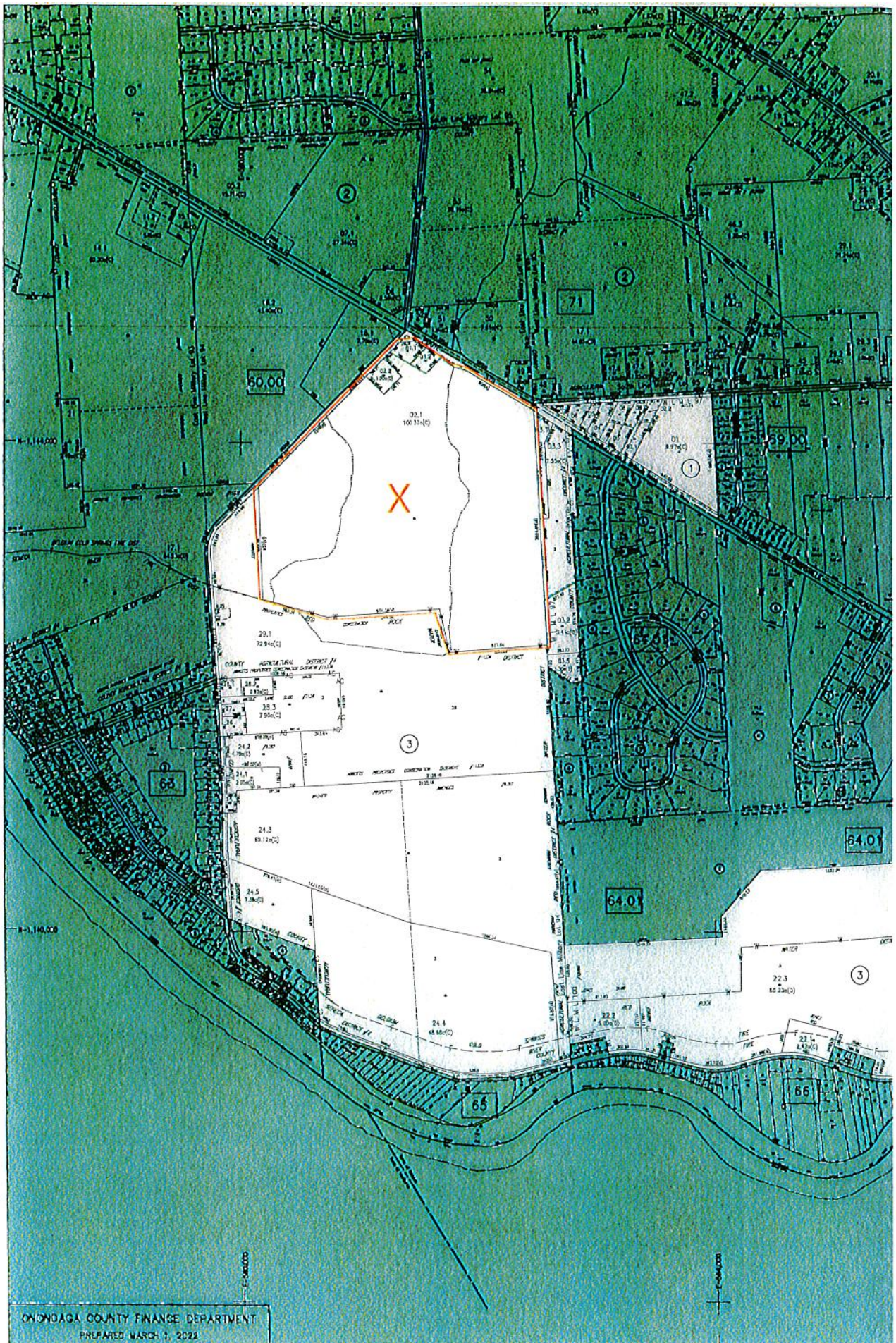
****

FOR TOWN USE ONLY --- Has this Agricultural Data Statement been referred to the Onondaga County Planning Agency? Yes ________ No ________

If yes, please give date of referral: ______________________________

If yes, please give County Referral Number: ______________________________

If no, please state reason: ______________________________



ONONDAGA COUNTY FINANCE DEPARTMENT

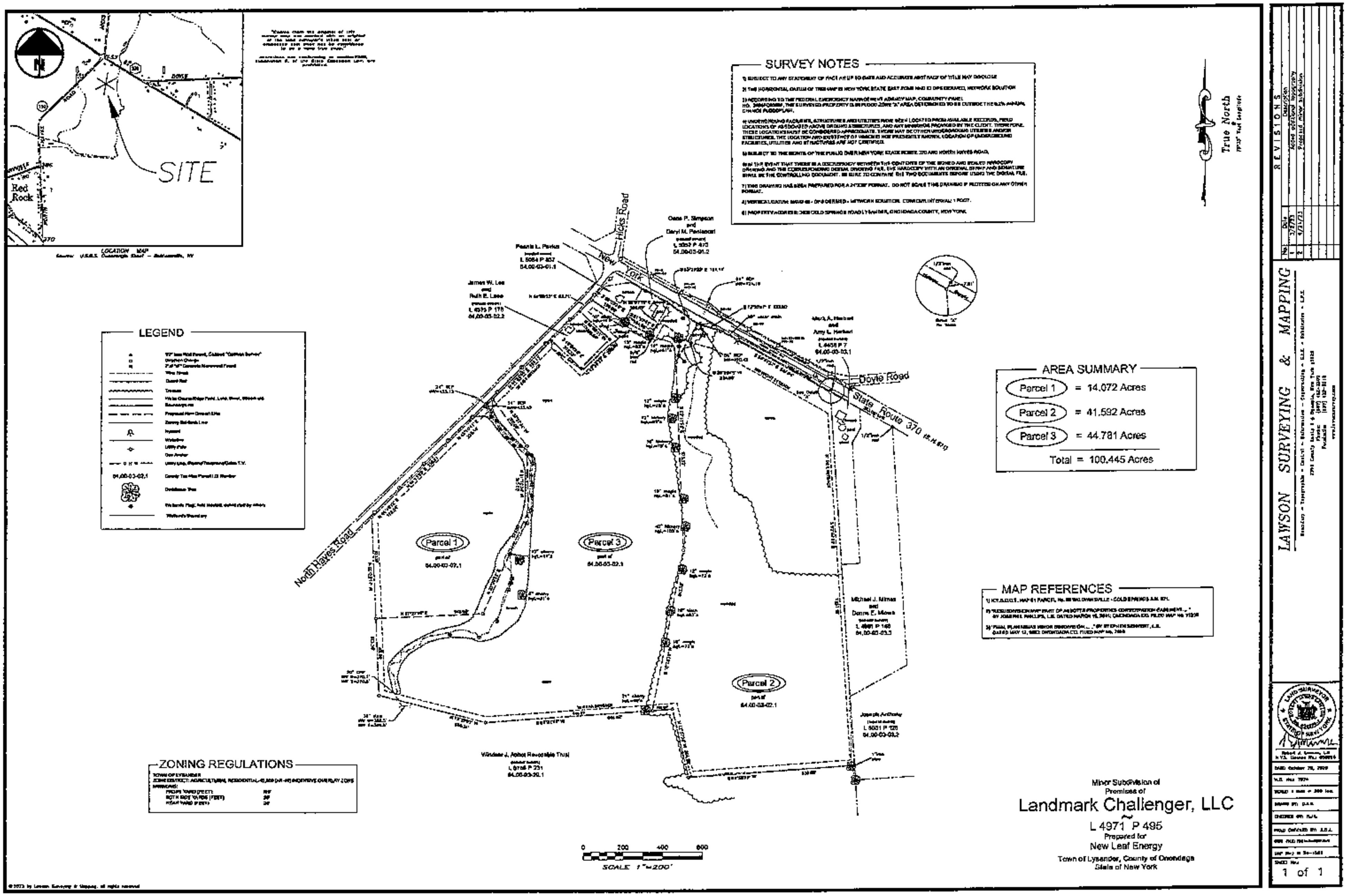
PREPARED MARCH 1, 2022

DATE	BLOCK	REVISION	DATE	BLOCK	REVISION

SPECIAL DISTRICT INFORMATION

SCHOOL	BALDWINSVILLE CENTRAL	SEWER	LANDINGS
FIRE	BELGIUM - COLD SPRINGS	SANITARY	ONONDAGA COUNTY
FIRE	SENECA RIVER	AGRICULTURAL	COUNTY DISTRICT 4
WATER	COUNTY		
WATER	RED ROCK		
WATER SUPPLY	COLD SPRING		
LIGHT	LANDINGS		
LIGHT	LANDINGS EXT 1		

AGRICULTURAL DISTRICT LINE	-AG-	PARK DISTRICT LINE	-P-
AMBULANCE DISTRICT LINE	-A-	REFUSE DISTRICT LINE	-R-
DRAINAGE DISTRICT LINE	-D-	SANITARY DISTRICT LINE	-SD-
FIRE DISTRICT LINE	-F-	SCHOOL DISTRICT LINE	-SC-
HYDRANT DISTRICT LINE	-H-	SEWER DISTRICT LINE	-S-
LIGHTING DISTRICT LINE	-L-	WATER DISTRICT LINE	-W-


SITE
Red Rock
LOCATION MAP
SURVEY NOTES
LEGEND
North Hayes Road
Hicks Road
New York
Doyle Road
State Route 370
Parcel 1
Parcel 2
Parcel 3
AREA SUMMARY
Parcel 1 = 14.072 Acres
Parcel 2 = 41.592 Acres
Parcel 3 = 44.781 Acres
Total = 100.445 Acres
MAP REFERENCES
ZONING REGULATIONS
James W. Lee
Ruth E. Lee
Pearle L. Parker
Oasa P. Simpson
Daryl M. Penlacost
Mary A. Herbert
Amy L. Herbert
Michael J. Mimes
Joseph Anthony
SCALE 1"=200'
0
200
400
600
True North
Minor Subdivision of
Premises of
Landmark Challenger, LLC
L 4971 P 495
Prepared for
New Leaf Energy
Town of Lysander, County of Onondaga
State of New York
LAWSON SURVEYING & MAPPING
REVISIONS
Date
Description
1 of 1

Cold Springs Solar

ERDMAN ANTHONY

June 29, 2023

Ms. Karen Rice; Planning Board
Mr. Al Yager; Town Engineer
Town of Lysander
8220 Loop Road
Baldwinsville, NY 13027

SUBJECT: 3354 Cold Springs Solar, LLC
3400 Cold Springs Road Solar Site

Dear Ms. Rice and Mr. Yager;

By this letter we are Transmitting seven copies of the following for your use, review, and information:

1. A Glare Analysis
2. National Grid *Coordinated Electric System Interconnect Review* (CESIR).
3. Updated Site Plans (Rev. 06-29-2023)

By this letter we are also providing the following written responses to comments provided by your office in a June 7, 2023 letter addressed to Chairman Corey & Lysander Planning Board Members.

Site Plan Review Comments:

1. I would recommend that the Planning Board request view shed rendering of the site depicting the view after construction from the proposed access road location on Hayes Road.
   Response: *Visual Simulations from several view-points (including the Hayes Road access) are being prepared to reflect the latest Site Plans. These new Visual Simulations will be submitted upon their completion.*

2. The Planning Board should request a copy of the interconnect agreement from Nation Gird to verify that additional off-site electrical grid improvement will not be required for this to move forward.
   Response: *A copy of the National Grid CESIR study (darted 2/18/2021) is included with this submission. Please note that this document indicates it was done for Borrego Solar Systems, Inc., which was the predecessor to New Leaf Energy, Inc.*

3. The Board should consider requiring the applicant to provide visual vegetative screening along the parcel frontage on Hayes Road and behind the residential properties bordering the northwestern boundary of the project as recommended by SHPO letter dated September 25, 2020.
   Response: *Vegetative screening is now being provided as shown on the enclosed updated Site Plans. A Landscaping Plan is currently being prepared and will be submitted upon its completion.*

4. A SWPPP will need to be provided.
   Response: *A Draft SWPPP is nearly complete and will be submitted upon its completion.*

ERDMAN ANTHONY

5. Level spreaders will need to be included the erosion and sediment control plan on slopes greater than 5%.
   Response: *The Grading and Erosion Control Plans have been updated to include Level Spreaders on slopes greater than 5%.*

6. Correspondence from the Onondaga County DOT should be provided to verify that the proposed driveway location is acceptable.
   Response: *Correspondence from the Onondaga County DOT will be provided once the Highway Driveway Permit is underway. We expect to complete the required field staking of its location (required by the County's Driveway Permit Application) when we are there for then July 13th Planning Board Meeting.*

7. Details for the concrete pads the site equipment will be placed on will needs to be included in the site details.
   Response: *A detail for the concrete equipment pads has been added to Sheet C-5.1.*

8. A decommissioning plan for the solar power generation system will need to be provided.
   Response: *A decommissioning estimate/plan for the solar power generation system was submitted on May 24, 2023.*

SEQRA Review comments

9. The New York State Office of Parks Recreation and Historic preservation letter attached to the SEQR indicates that additional information will be required from the applicant before findings can be rendered by the office. The applicant will need to provide a no effect letter from SHPO before action is taken on the SEQR review.
   Response: *Comment acknowledged. The "No Effect" letter will be submitted upon our receipt from NYSOPRHP. The letter will also be added to the SWPPP Report.*

10. This SEQR indicates that 30 acres of the site contains highly productive agricultural soils. Per the recommendations included in the Onondaga County Farm Land Protection Plan the Board should consider the affects of the proposed project related to impacts on farmland resources and agricultural communities.
    Response: *Comment acknowledged. A note has been added to the cover sheet regarding NYS Ag & Markets construction guidance and requirements. Topsoil removed during the site's construction is being stored on site for the site's future restoration should it ever be decommissioned.*

Please note the following with respect to the updated Site Plans:

1. An "agricultural style" woven / mesh wire fence with wood posts is now proposed in lieu of standard chain link fencing (CLF). New Leaf believes this style of fencing may help maintain and/or preserve some degree of "agricultural" aesthetics. However, if the Board prefers chain link fencing, it can be readily changed back. We leave it to the Board to determine their preference.

ERDMAN ANTHONY

2. The proposed Stormwater Management practice at the south end of the site is now an Infiltration Basin. The pending SWPPP will include the documentation for that practice.

We trust the above satisfactorily addresses the current concerns and comments on the previously submitted Site Plans and application documents.

If anyone has any questions, please contact us.

Sincerely,

Marc Kenward, PE
Senior Associate

ERDMAN ANTHONY

mdk

enc: *As noted on page 1 of this letter.*

c: Terrance Nolan, New Leaf Energy, Inc.
Greg Gibbons, New Leaf Energy, Inc.
Chris Collett, New Leaf Energy, Inc.

SITE USE PERMIT SET

3400 COLD SPRINGS ROAD

LYSANDER, NY 13027

GENERAL NOTES

1. AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE BORREGO SOLAR SYSTEMS, INC AND "SUBCONTRACTOR" IS BORREGO'S INSTALLATION SUBCONTRACTOR.
2. THESE NOTES SET MINIMUM STANDARDS FOR CONSTRUCTION. THE DRAWINGS GOVERN OVER THESE NOTES TO THE EXTENT SHOWN.
3. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS AND IN THE SUBCONTRACTOR AGREEMENT.
4. EXCEPTIONS TO THE CONTRACT DOCUMENTS ARE PERMITTED ONLY WITH THE APPROVAL OF BORREGO.
5. COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS AND NOTIFY BORREGO OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
6. DRAWINGS HAVE BEEN DETAILED IN COMPLIANCE WITH U.L. LISTING REQUIREMENTS AND THE BUILDING CODE FOR THE MATERIALS SPECIFIED. IF AN ALTERNATE OR SUBSTITUTED MATERIAL IS ACCEPTED AS AN EQUAL BY BORREGO, THE SUBCONTRACTOR WILL ASSUME THE RESPONSIBILITY FOR WHATEVER CONSTRUCTION MODIFICATION AND/OR ADDITIONAL COST THAT IS REQUIRED BY REASON OF THIS ACCEPTANCE.
7. PRIOR TO THE COMMENCEMENT OF ANY WORK, EACH TRADE SHALL VERIFY EXISTING CONDITIONS AND NOTIFY BORREGO OF ANY DISCREPANCIES TO THAT WHICH IS SHOWN IN THESE DRAWINGS, INCLUDING BUT NOT LIMITED TO DIMENSIONS OF THE WORK AREA, STRUCTURE, EXISTING ELECTRICAL SERVICE, CONDUIT PATHS, OBSTRUCTIONS, ACCESSIBILITY ISSUES, AND WORKING CLEARANCES. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE SUBCONTRACTOR AT HIS OWN EXPENSE.
8. SUBCONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO BORREGO FOR APPROVAL PRIOR TO MAKING ANY CHANGES. APPROVED CHANGES REQUIRE A DRAWING REVISION TO MAINTAIN CONTROL OVER THE APPROVED DESIGN. DEVIATION FROM THESE PLANS PRIOR TO BORREGO APPROVAL PLACES ALL LIABILITY ON THE SUBCONTRACTOR.
9. UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT ARE NEW.
10. ALL ITEMS TO BE REMOVED AND RELOCATED OR REPLACED SHALL BE HANDLED WITH PROPER CARE AND STORED IN A SAFE PLACE TO PREVENT DAMAGE; OR BE REPLACED AT THE SUBCONTRACTOR'S EXPENSE.
11. ALL EQUIPMENT SHALL BE MOUNTED AS SHOWN. WHERE DETAILS ARE NOT PROVIDED, THE SUBCONTRACTOR SHALL USE DILIGENT EFFORTS TO MOUNT EQUIPMENT SUCH THAT IT WILL BE CLEAN, LEVEL AND SOLID.
12. ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND NEW DEVICES AND EQUIPMENT TO MATCH EXISTING FINISHES.
13. ANY METAL SHAVINGS RESULTING FROM SITE WORK SHALL BE CLEANED FROM ROOF SURFACES, ENCLOSURES AND ANY ADDITIONAL AREAS WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS OR OTHER DAMAGE.
14. NO STRUCTURAL MEMBER SHALL BE DRILLED UNLESS SPECIFICALLY AUTHORIZED BY BORREGO.
15. SUBCONTRACTOR ACKNOWLEDGES THAT THE SYSTEM AS INDICATED ON THE PLANS REQUIRES ALL COMPONENTS TO BE INSTALLED TO PROPERLY RESIST WIND LOADS, SUCH AS BALLAST, WIND DEFLECTORS, ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE TEMPORARY MEANS TO RESIST WIND LOADS FOR ALL COMPONENTS NOT YET INSTALLED DURING AND AFTER REGULAR WORKING HOURS. THIS MAY INCLUDE TEMPORARY TIE DOWNS, COVERING, BALLAST OR ANY OTHER MEANS. DAMAGE TO ANY INSTALLED SYSTEM COMPONENT OR THE EXISTING FACILITY AS A RESULT OF THE UNFINISHED CONDITION NOT ADEQUATELY RESISTING WIND SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR TO REPAIR OR REPLACE AT THE SUBCONTRACTOR'S COST.
16. TREES MAY GROW DURING THE LIFE OF THE SYSTEM AND IMPACT THE PRODUCTION.

V.7

PROJECT SCOPE

THIS PROJECT CONSISTS OF THE INSTALLATION OF SOLAR MODULES PER THE SYSTEM DESCRIPTION, BELOW. THE MODULES WILL BE INSTALLED ON A GROUND MOUNTED RACKING SYSTEM. THE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED IN PARALLEL TO THE INVERTER(S), WHICH CONVERT THE PHOTOVOLTAIC OUTPUT POWER FROM DC TO AC. THE SOLAR ELECTRIC SYSTEM WILL BE INTERCONNECTED WITH THE EXISTING SITE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE APPLICABLE ELECTRICAL CODE AND NATIONAL GRID REQUIREMENTS.

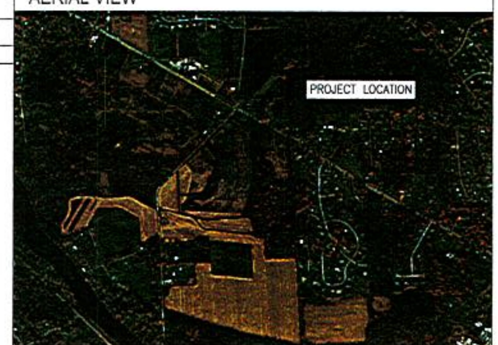
THIS PROJECT CONSISTS OF THE INSTALLATION OF ENERGY STORAGE EQUIPMENT, PER THE SYSTEM DESCRIPTION, BELOW. THE ENERGY STORAGE MODULES WILL BE INSTALLED IN A PURPOSE BUILT CONTAINER WITH INTEGRATED BATTERY MANAGEMENT SYSTEM, HEATING, VENTILATION, AIR CONDITIONING UNIT(S), AND FIRE SUPPRESSION SYSTEMS. THE ENERGY STORAGE MODULES WILL BE WIRED IN SERIES STRINGS AND CONNECTED TO THE POWER CONVERSION SYSTEM, WHICH WILL CONVERT DC TO AC WHILE THE BATTERIES ARE DISCHARGING.

SYSTEM DESCRIPTION

DC SYSTEM		AC SYSTEM	
MODULES	TSM-585NEG19RC	SYSTEM SIZE (KWAC)	5,000 KWAC
STC RATING (W)	585 WDC	INVERTERS(S)	(2) SMA SC 2660-UP-US (FACTORY LIMITED TO 2500KW)
RACKING	ATI DURARACK	CEC EFFICIENCY	98 %
AZIMUTH	180	TILT ANGLE	+/- 52°

LOCATION MAP

AERIAL VIEW



DRAWING LIST

SHEET NUMBER	SHEET TITLE
T-1	TITLE PAGE
CIVIL	
C-1.0	EXISTING CONDITIONS PLAN
C-2.0	TREE CLEARING PLAN
C-3.0	LAYOUT AND MATERIALS PLAN
C-4.0	GRADING AND ERSOSION CONTROL
C-4.1	GRADING AND ERSOSION CONTROL (2)
C-5.0	CIVIL DETAILS
C-5.1	CIVIL DETAILS
C-6.0	LANDSCAPING PLAN (NOT INCLUDED)

APPLICABLE CODES AND STANDARDS

2014 NATIONAL ELECTRICAL CODE
2015 INTERNATIONAL BUILDING CODE
2016 NEW YORK STATE UNIFORM CODE SUPPLEMENT
UL-1703 – SOLAR MODULES
UL-1741 – INVERTERS, COMBINER BOXES
UL-2703 – RACKING MOUNTING SYSTEMS AND CLAMPING DEVICES FOR PV MODULES
UL-1642 – STANDARD FOR LITHIUM BATTERIES
UL-1973 – STANDARD FOR BATTERIES FOR USE IN LIGHT ELECTRIC RAIL (LER) APPLICATIONS AND STATIONARY APPLICATION
UL-9540 – STANDARD FOR ENERGY STORAGE SYSTEM AND EQUIPMENT

NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS

CONSTRUCTION OF THIS PROJECT IS TO COMPLY TO THE EXTENT PRACTICAL WITH THE LATEST NEW YORK STATE DEPARTMENT OF AGRICULTURE AND MARKETS GUIDELINES FOR SOLAR ENERGY PROJECTS – CONSTRUCTION MITIGATION FOR AGRICULTURAL LANDS. THIS INCLUDES COMPLIANCE WITH ENVIRONMENTAL MONITORING, CONSTRUCTION REQUIREMENTS, POST CONSTRUCTION RESTORATION AND POST CONSTRUCTION ENVIRONMENTAL MONITORING AND REMEDIATION.

PROJECT DIRECTORY

SYSTEM / PROJECT OWNER
TBD

LAND OWNER / HOST
LANDMARK CHALLENGER, LLC
CONTACT PHONE
3400 COLD SPRINGS ROAD
BALDWINSVILLE, NY, 13027

AUTHORITY HAVING JURISDICTION
TOWN OF LYSANDER
8220 LOOP ROAD
BALDWINSVILLE, NY 13027

UTILITY
National Grid

CIVIL ENGINEER
FIRM: ERDMAN ANTHONY & ASSOCIATES
CONTACT: MARC D. KENWARD, P.E.
PHONE: (585) 427-8888

ELECTRICAL ENGINEER
FIRM: NEW LEAF ENERGY, INC
CONTACT: AHARON WRIGHT, P.E.
PHONE: 978-221-3081

DESIGN ENGINEER
FIRM: NEW LEAF ENERGY, INC.
CONTACT: STEVEN RIGGALL
PHONE: 315-420-6575

GENERAL ABBREVIATIONS

(E)	EXISTING	NTS	NOT TO SCALE
AHJ	AUTHORITY HAVING JURISDICTION	OAE	OR APPROVED EQUAL
AL	ALUMINUM	OC	ON CENTER
APPROX	APPROXIMATE	OD	OUTSIDE DIAMETER
ARY	ARRAY	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
BLDG	BUILDING	PV	PHOTOVOLTAIC
BSS	BORREGO SOLAR SYSTEM	PVC	POLY VINYL CHLORIDE
CL	CENTERLINE	SCH	SCHEDULE
DAS	DATA ACQUISITION SYSTEM	SS	STAINLESS STEEL
DIA	DIAMETER	SSS	SOLAR SUPPORT STRUCTURE
DO	DITTO	STC	STANDARD TEST CONDITIONS
EW	EAST-WEST	TBD	TO BE DETERMINED
FBO	FURNISHED BY OTHERS	TP	TAMPER PROOF
FF	FORWARD FACING	TYP	TYPICAL
GALV	GALVANIZED	UON	UNLESS OTHERWISE NOTED
HDG	HOT DIP GALVANIZED	VIF	VERIFY IN FIELD
HVAC	HEATING VENTILATION AND AIR CONDITIONING	WP	WEATHER PROOF
ID	INSIDE DIAMETER		
MFR	MANUFACTURER		
MOD	SOLAR MODULE		
NS	NORTH-SOUTH		

REV 1.0

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

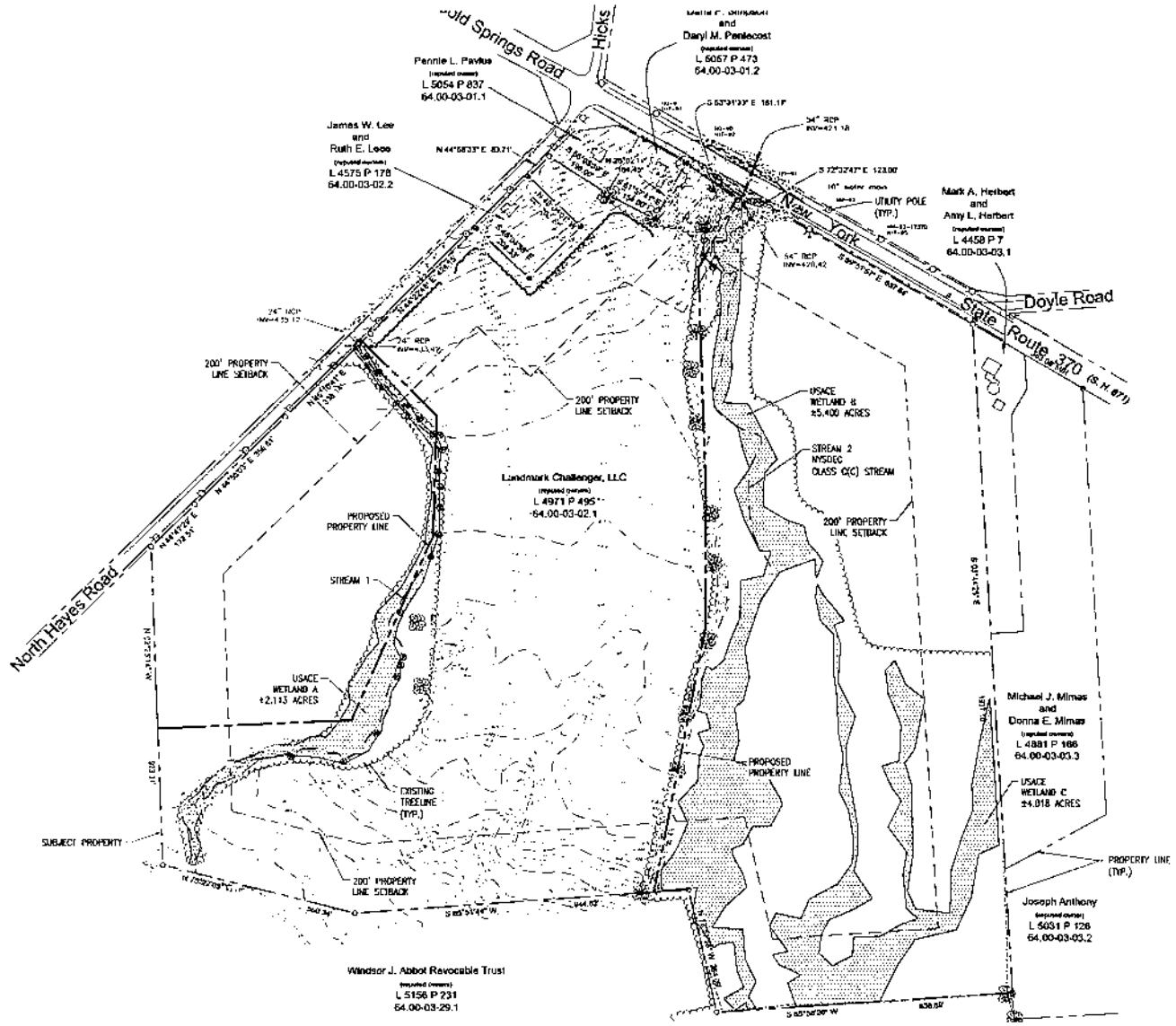
4/27/2023

3354 COLD SPRINGS SOLAR, LLC
3400 COLD SPRINGS ROAD
LYSANDER, NY 13027

PROJECT NUMBER: 22-0469

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	04/27/23	SP/KR	MDK	SUP UPDATE
2	06/29/23	SP/KR	MDK	SUP UPDATE

T-1
TITLE PAGE



EXISTING CONDITIONS PLAN

SCALE: 1" = 150'

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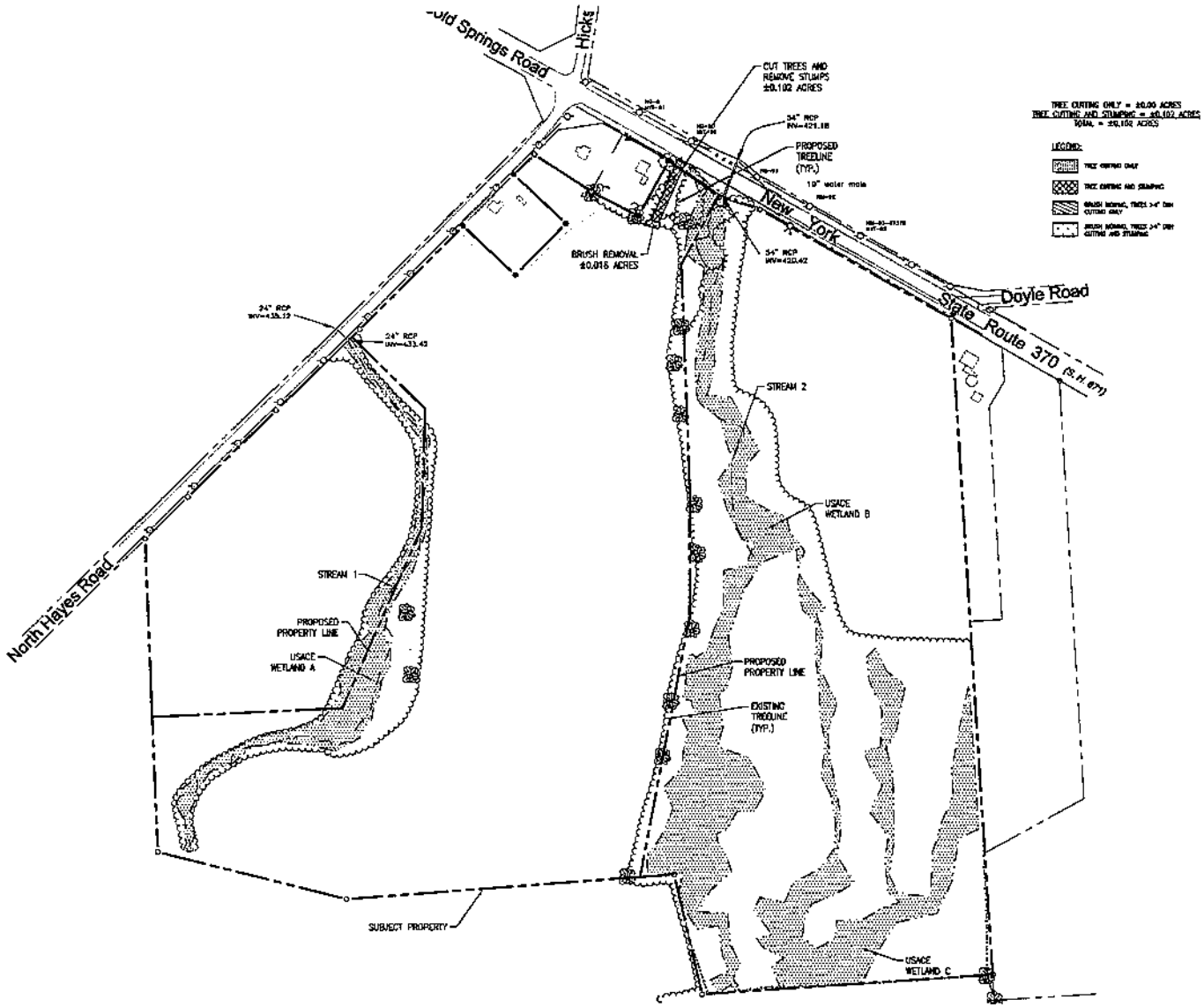
4/27/2023

3354 COLD SPRINGS SOLAR, LLC
3400 COLD SPRINGS ROAD
LYSANDER, NY 13027

PROJECT NUMBER: 22-0469

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	04/21/23	SR/VR	MK	SUP UPDATE
2	06/26/23	SR/VR	MK	SUP UPDATE

C-1.0
EXISTING CONDITIONS



TREE CLEARING AND DEMOLITION PLAN

SCALE: 1" = 150'

0 150' 300'

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NOT FOR CONSTRUCTION

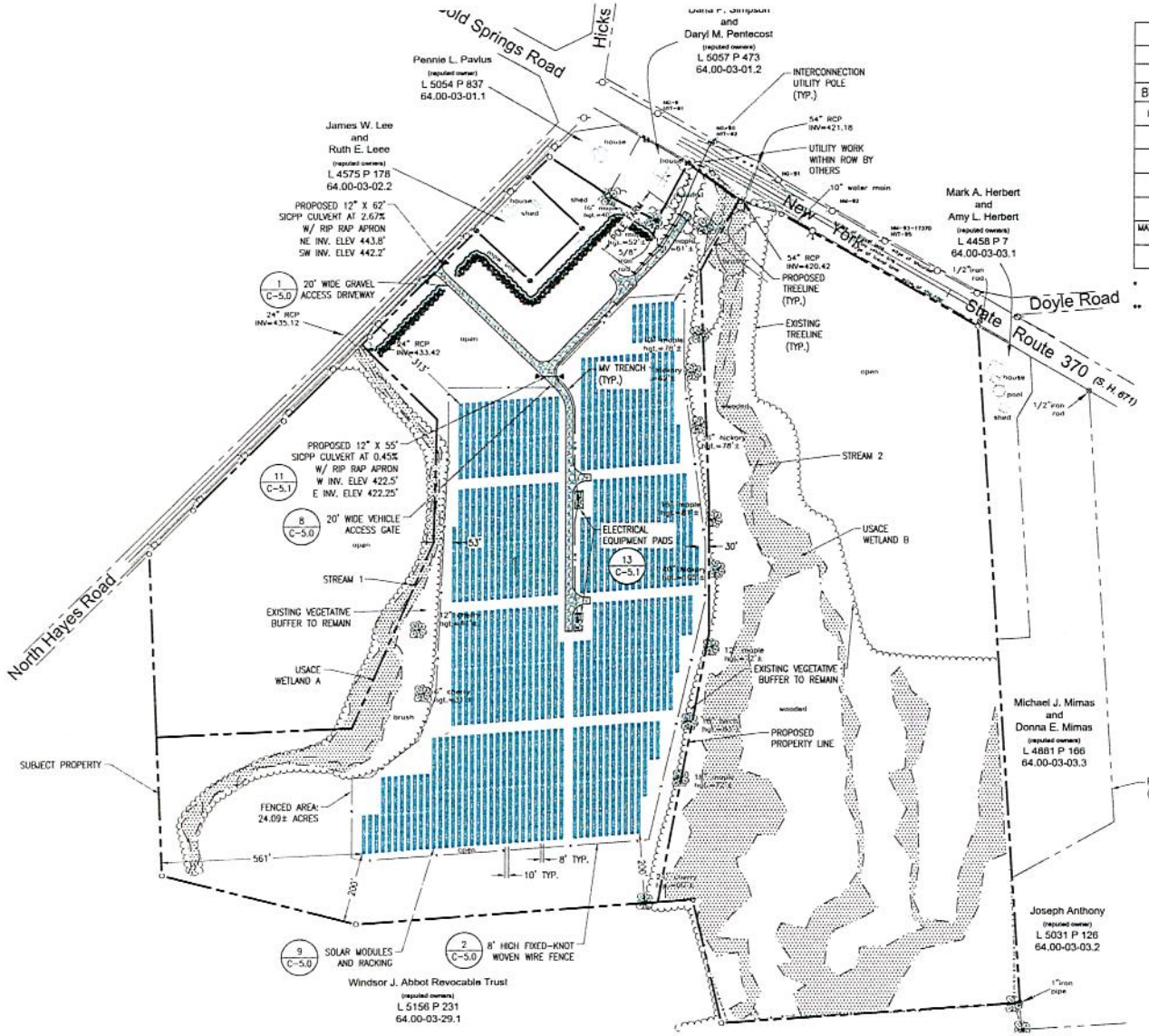
4/27/2023

3354 COLD SPRINGS SOLAR, LLC
3400 COLD SPRINGS ROAD
LYSANDER, NY 13027

PROJECT NUMBER: 22-0459

KEY	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	05/17/23	SR/KR	MDK	SUP UPDATE
2	05/29/23	SR/KR	MDK	SUP UPDATE

C-2.0
TREE CLEARING AND DEMOLITION PLAN



ZONING SUMMARY TABLE				
PARCEL NUMBER(S): 064.-03-02.1 TO BE RESUBDIVIDED				
ZONING DISTRICT: AGRICULTURAL RESIDENTIAL (AG-40) WITH INCENTIVE ZONING OVERLAY				
BYLAW SECTION	UNITS	REQUIRED	PROVIDED	NOTES
MINIMUM LOT AREA	ACRES	30	49.66	NONE
LOT WIDTH	FEET	N/A	227.6	NONE
FRONT YARD	FEET	200	341	FROM THE MODULES
SIDE YARD	FEET	200	30**/313	FROM THE MODULES
REAR YARD	FEET	200	200	FROM THE MODULES
MAXIMUM SOLAR PANEL HEIGHT	FEET	20	<20	TOP OF SOLAR MODULE RACK
MAXIMUM LOT COVERAGE	%	50	40.9*	COVERAGE INCLUDING SOLAR PANELS

* MAXIMUM PROPOSED LOT COVERAGE SHOWN WAS TABULATED BASED ON THE AREA ENCOMPASSED BY THE OUTER EDGE OF THE ARRAY PANELS.

** ALL SOLAR PANELS AND RELATED EQUIPMENT SHALL BE SET BACK AT LEAST 200' FROM ALL EXISTING PROPERTY LINES, PUBLIC ROADS, POWER LINES AND PREXISTING AND FUTURE STRUCTURES. SETBACKS TO PROPOSED SUBDIVISION LINES HAVE BEEN REDUCED TO ALLOW FOR REQUIRED SYSTEM CAPACITY. DISTANCE #1 IS TO PROPOSED LOT LINE AND DISTANCE #2 IS TO EXISTING LOT LINE (#1/#2)

LAYOUT AND MATERIALS PLAN

SCALE: 1" = 150'

0 150 300

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4/27/2023

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LYSANDER, NY 13027

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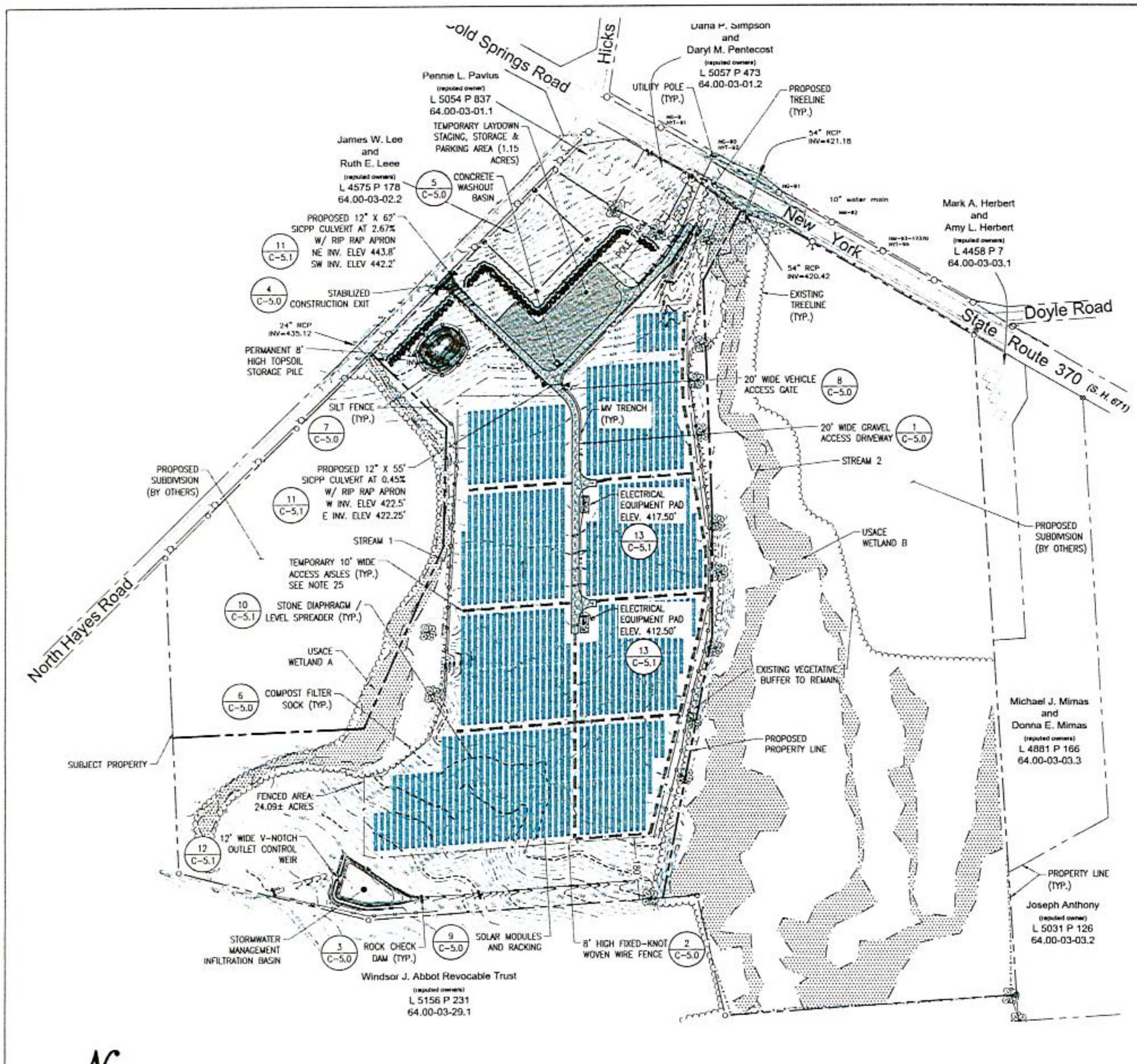
C-3.0
LAYOUT AND MATERIALS PLAN



GRADING AND EROSION CONTROL PLAN

SCALE: 1" = 150'

0 50' 100'

EROSION AND SEDIMENT CONTROL NOTES:

1. A SPDES PERMIT SHALL BE IN PLACE PRIOR TO COMMENCING ANY EARTH DISTURBANCE. THE SPDES PERMIT # IS (TBD), AND WAS ISSUED ON (DD/MM/20YY).
2. EROSION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGED CONSTRUCTION PROVIDED IN THE SWPPP. A COPY OF THE APPROVED SWPPP SHALL BE MAINTAINED ON THE SITE.
3. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
4. SEDIMENT BARRIERS SHALL BE INSPECTED AND APPROVED BY THE CEOR BEFORE CONSTRUCTION CAN START.
5. STRAW AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE OF NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY WHEN INSTALLED.
6. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN FOURTEEN (14) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED.
7. SEDIMENT BARRIERS SHALL BE CONSTRUCTED AROUND ALL SOIL STOCKPILE AREAS.
8. CLEAN OUT PROJECT DRAINAGE FEATURES AND STRUCTURES (I.E. CULVERTS, BASINS, SWALES, ETC.) AFTER COMPLETION OF CONSTRUCTION AND AS REQUESTED BY THE CEOR.
9. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE SEDIMENT CONTROL MEASURE OR IN ACCORDANCE WITH SYSTEMS STANDARD SPECIFICATION.
10. THE "TRAINED CONTRACTOR" IS RESPONSIBLE FOR DAILY INSPECTIONS, MAINTENANCE, AND DIRECTING REPAIR ACTIVITIES.
11. DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION OR AS DIRECTED BY THE CONTRACTOR/CEOR.
12. PIPE OUTLETS (IF ANY) SHALL BE STABILIZED WITH STONE. REFER TO DETAILS.
13. TEMPORARY SEEDING (perennial RYE gRASS) SHALL BE AT A RATE OF 45 LBS PER ACRE. DISTURBED AREAS OUTSIDE AND DOWN SLOPE FROM THE CONSTRUCTION LIMITS SHALL BE SIMILARLY SEEDED.
14. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED. A DEWATERING PLAN SHALL BE SUBMITTED FOR APPROVAL BY THE CONTRACTOR TO THE CEOR AND ADDED TO THE SWPPP.
15. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION/SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE CEOR AND WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. A STABILIZED CONSTRUCTION EXIT SHALL BE PROVIDED. A VEHICLE WASH DOWN FACILITIES SHALL BE PROVIDED IF THE STABILIZED CONSTRUCTION ENTRANCE IS INEFFECTIVE IN PREVENTING SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED IMMEDIATELY.
17. NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. NO RE-FUELING SHALL OCCUR WITHIN 100 FEET OF ANY WETLAND RESOURCE AREA AND 200 FEET FROM RIVERFRONT. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
18. THE COST OF REPAIRING EROSION CONTROL MEASURES OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
19. EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
20. CONTRACTOR SHALL SPRAY WATER FROM A WATER TRUCK ON DRY AND WINDY DAYS TO PREVENT DUST FROM FORMING. OTHER ALLOWED FORMS OF DUST CONTROL INCLUDE: CALCIUM CHLORIDE.
21. FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF EIGHTY (80) PERCENT OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ESTABLISHED; OR OTHER EQUIVALENT STABILIZATION MEASURES, SUCH AS PERMANENT LANDSCAPE MULCHES, ROCK RIP-RAP OR WASHED/CRUSHED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE NOT COVERED BY PERMANENT STRUCTURES, CONCRETE OR PAVEMENT.
22. AFTER ALL DISTURBED AREAS HAVE REACHED FINAL STABILIZATION, THE CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AT THE DIRECTION OF THE CEOR.
23. AFTER THE REMOVAL OF TEMPORARY EROSION CONTROL MEASURES, THE CONTRACTOR SHALL HAND RAKE AND SEED THE AREA OF THE TEMPORARY EROSION CONTROL MEASURE.
24. EROSION CONTROL MEASURES AS SHOWN ON THESE DRAWINGS IS INTENDED TO CONVEY MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES AS NECESSARY TO PREVENT SOIL EROSION AND TO ACCOMPLISH THE PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP) OBJECTIVES.
25. TEMPORARY ACCESS ROADS/AISLES TO BE USED FOR DELIVERY & DISTRIBUTION OF MATERIALS THROUGH THE SITE. CONTRACTOR SHALL NOT PLACE ACCESS AISLES THROUGH WETLAND AREAS. TEMPORARY ACCESS AISLES AND TEMPORARY STAGING, STORAGE & PARKING AREAS ARE TO BE DE-COMPACTED AND RESTORED PER SWPPP.
26. ALL EXCESS TOPSOIL IS TO REMAIN ON-SITE, STOCKPILED AND PERMANENTLY STABILIZED WITH SEEDING.

SOLAR RACKING
ROAD (GRAVEL)
FENCE LINE
PROPERTY LINE
STREAM
(E) MAJOR CONTOUR
(E) MINOR CONTOUR
TREELINE
SILT FENCE
COMPOST FILTER SOCK
WETLANDS

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

4/27/2023

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3400 COLD SPRINGS ROAD
LYSANDER, NY 13027

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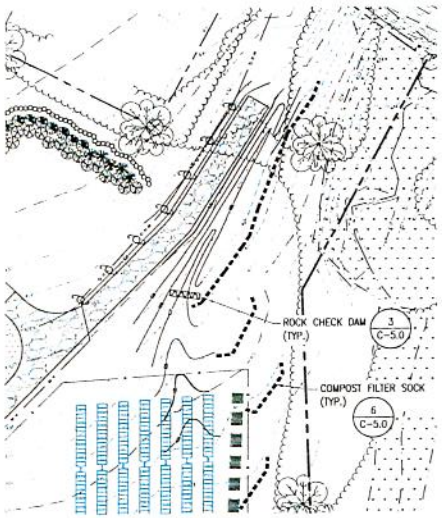
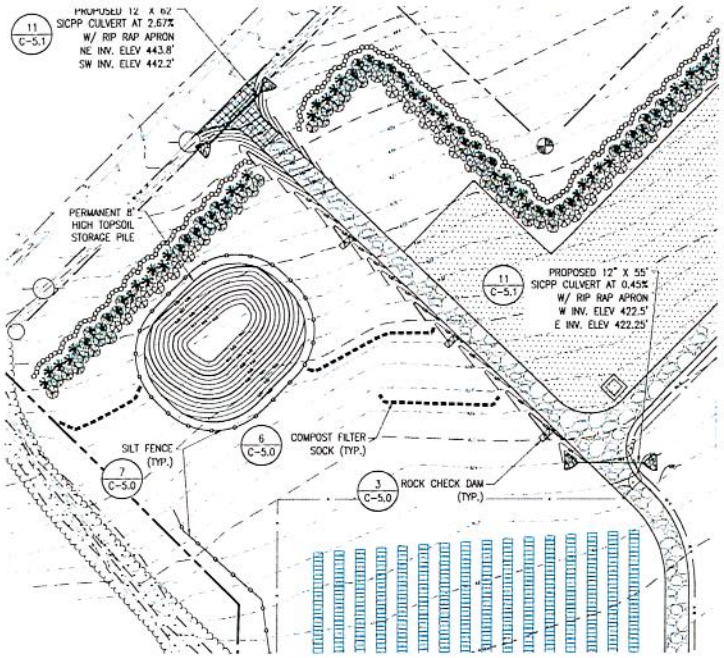
2	06/29/23	SR/KR	MOK	SUP UPDATE

C-4.0

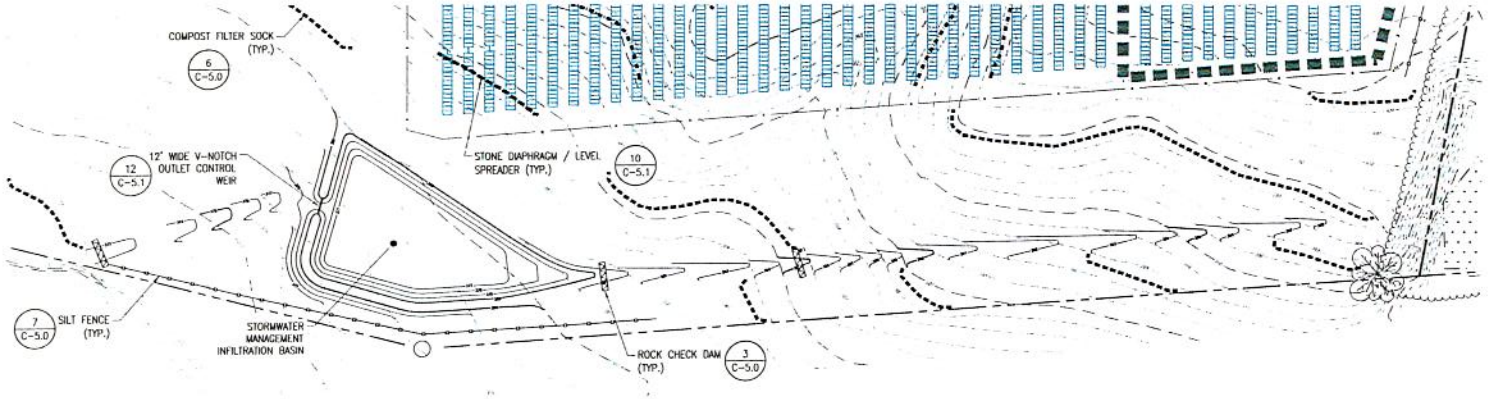
GRADING AND EROSION CONTROL



POLE FARM INTERCONNECTION AREA



NORTH HAYES RD. ENTRANCE AREA



STORMWATER MANAGEMENT INFILTRATION BASIN AREA

SOLAR RACKING
ROAD (GRAVEL)
FENCE LINE
PROPERTY LINE
STREAM
(E) MAJOR CONTOUR
(E) MINOR CONTOUR
TREELINE
SILT FENCE
COMPOST FILTER SOCK
WETLANDS

GRADING AND EROSION CONTROL PLAN BLOW-UPS

SCALE: 1" = 50'

new leaf energy

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4/27/2023

3354 COLD SPRINGS SOLAR, LLC
3400 COLD SPRINGS ROAD
LYSANDER, NY 13027

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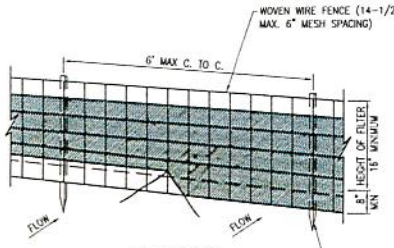
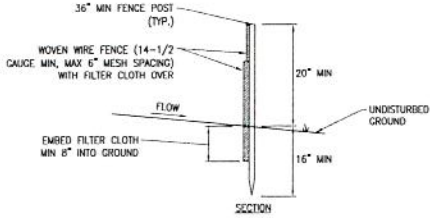
1	04/27/23	SF/KR	MDK	SUP UPDATE
2	06/29/23	SF/KR	MDK	SUP UPDATE

C-4.1
GRADING AND EROSION CONTROL





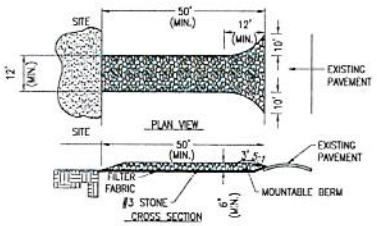
CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.

POSTS: STEEL, EITHER T OR U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 14 GAUGE 6" MAX. MESH OPENING
FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL

7 SILT FENCE DETAIL

SCALE: NTS

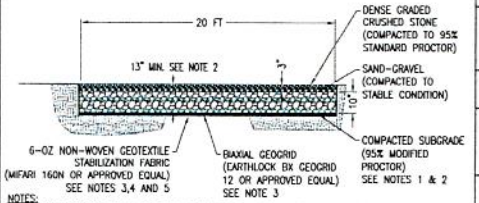


NOTES:

1. STONE SIZE - USE NYSDOT 703-0201 SIZE DESIGNATION #3 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50 FEET.
3. THICKNESS-NOT LESS THAN 6 INCHES.
4. WIDTH-NOT LESS THAN 12 FEET WHERE MORE THAN ONE (1) ACCESS POINT TO THE SITE. WHERE ONE (1) ACCESS POINT A MINIMUM OF 24 FEET IS REQUIRED.
5. GEOTEXTILE-SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER-SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
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 TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.
8. WHEN WHEEL WASHING IS REQUIRED, IT SHALL BE DONE ON AN 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.

4 STABILIZED CONSTRUCTION EXIT

SCALE: NTS

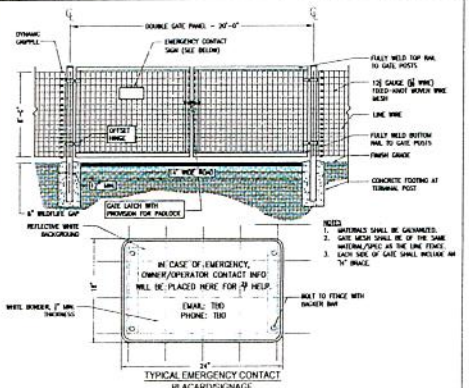


NOTES:

1. SUBCONTRACTOR SHALL EXCAVATE TO SUITABLE MATERIAL FOR SUBGRADE.
2. SUBCONTRACTOR SHALL COMPACT SUBGRADE TO PROVIDE SUITABLE SURFACE TO PLACE ROAD. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPERATION CRITERIA.
3. SUBCONTRACTOR SHALL FOLLOW MANUFACTURER INSTALLATION PROCEDURES.
4. WHERE OVERLAPPING OF GEOTEXTILE FABRIC IS REQUIRED, SUBCONTRACTOR SHALL OVERLAP A MINIMUM OF 24".
5. SUBCONTRACTOR SHALL REMOVE TEMPORARY CONSTRUCTION ACCESS ROADS, AND RESTORE TO PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CEOR AND THE GOVERNING AGENCIES.
6. SUBCONTRACTOR SHALL INSTALL CONDUITS FOR ALL ELECTRICAL CONDUIT CROSSINGS PRIOR TO INSTALLATION OF THE GEOGRID MATERIAL. THE GEOGRID SHALL NOT BE HORIZONTALLY CUT ONCE INSTALLED.

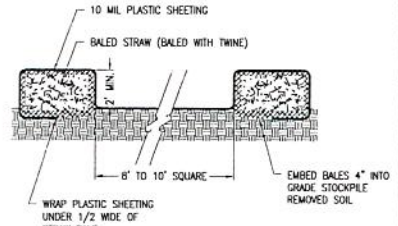
1 GRAVEL ACCESS ROAD

SCALE: NTS



8 8' WOVEN WIRE VEHICLE GATE & PLACARD

SCALE: NTS

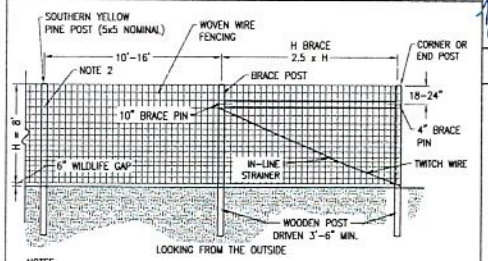


NOTES:

1. BASIN SHALL BE INSPECTED DAILY.
2. PLASTIC SHEETING SHALL BE FREE OF TEARS OR HOLES. DAMAGED OR LEAKING BASINS SHALL BE REPLACED OR REPAIRED IMMEDIATLY.
3. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE BASIN IS FILLED. WASHWATER FROM WASHOUT BASIN SHALL EVAPORATE OR BE VACUUMED OUT. REMOVE REMAINING HARDENED SOLIDS. REPLACE PLASTIC SHEETING WITH EACH CLEANING. REPLACE STRAWBALES AS REQUIRED.
4. DISPOSE OF HARDENED MATERIAL OFF-SITE OR PER THE PROJECTS SWPPP.

5 CONCRETE WASHOUT BASINS

SCALE: NTS

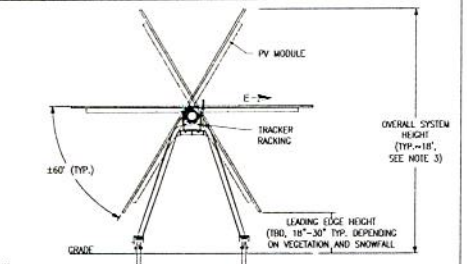


NOTES:

1. CORNER BRACING SHALL BE INSTALLED FIRST.
2. FENCE FABRIC SHALL BE BEKAERT SOLIDLOCK PRO, 12 ½ GAUGE HIGH-TENSILE FIXED KNOT WOVEN WIRE FENCE OR APPROVED EQUAL.
3. FENCE SHALL BE ATTACHED TO WOOD POSTS USING CLASS 3 BARB STAPLES AND ATTACHMENT LOCATIONS (SPACING) SHALL BE PER MANUFACTURERS RECOMMENDATIONS.
4. THIS DETAIL NOT APPLICABLE FOR PRIVACY FENCE OR FENCE WITH SLATS.
5. MINIMUM # OF HORIZONTAL WIRES SHALL BE 17 WITH 6" MAX. SPACING BETWEEN WIRES.
6. BRACE PINS SHALL BE ¾" GALVANIZED PINS.

2 8' HIGH FIXED-KNOT WOVEN WIRE FENCE

SCALE: NTS

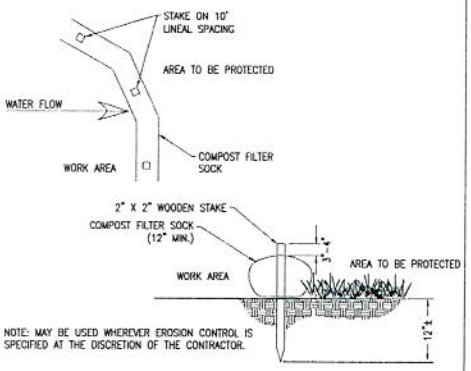


NOTES:

1. THE RACKING CONFIGURATION AND GROUND SCREW FOUNDATIONS SHOWN HERE ARE TYPICAL FOR A SINGLE AXIS TRACKER PV SYSTEM IN THIS REGION. THE SPECIFIC CONFIGURATION AND FOUNDATION DESIGN WILL BE DETERMINED BY OTHERS AS PART OF THE CONSTRUCTION SET OF DRAWINGS BASED ON THE SPECIFIED EQUIPMENT, RESULTS OF THE GEOTECHNICAL STUDY, AND OTHER FACTORS. THE 1X TRACKER SHOWN IN THIS DETAIL IS FOR GENERAL REFERENCE ONLY.
2. THE LEADING EDGE HEIGHT AND OVERALL SYSTEM HEIGHT ARE NOMINAL, ARE MEASURED AT MAXIMUM SPECIFIED ROTATION FROM GRADE, VARY WITH CHANGES IN LOCAL TOPOGRAPHY, AND SHALL BE DETERMINED AS PART OF THE CONSTRUCTION SET OF DRAWINGS BASED ON FINAL MODULE AND RACKING SPECIFICATIONS.
3. THE MAXIMUM ALLOWABLE OVERALL SYSTEM HEIGHT SHALL BE GOVERNED BY CITY/TOWN BYLAWS AND/OR ZONING CODES.

9 TYPICAL SINGLE AXIS TRACKER - SECTION

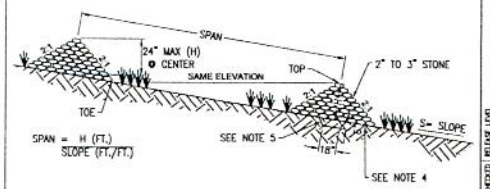
SCALE: N.T.S



NOTE: MAY BE USED WHEREVER EROSION CONTROL IS SPECIFIED AT THE DISCRETION OF THE CONTRACTOR.

6 COMPOST FILTER SOCK

SCALE: NTS



NOTES:

1. MAXIMUM DRAINAGE AREA ≤ 2 ACRES
2. USE MA DOT M.2.01.1 CRUSHED STONE
3. H=24" MAX C CENTER
4. STONE SHALL BE PLACED ON A FILTER FABRIC FOUNDATION
5. INSTALL 6" DEEP CUT-OFF TRENCH BELOW
6. EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM

3 ROCK CHECK DAM

SCALE: N.T.S.

new leaf energy

ERDMAN ANTHONY

NOT FOR CONSTRUCTION

4/27/2023

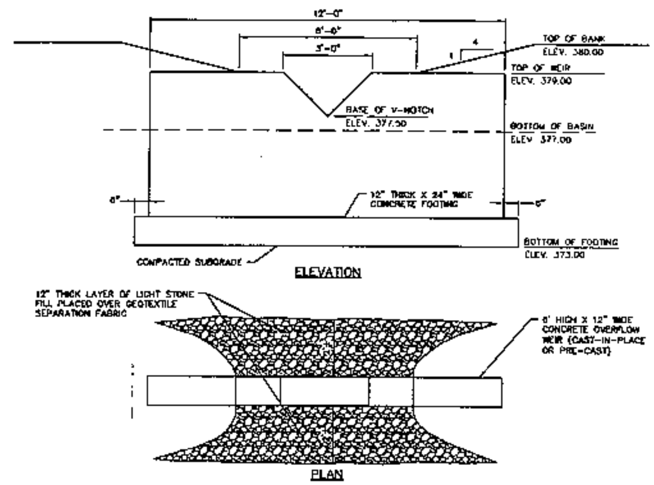
3354 COLD SPRINGS SOLAR, LLC
3400 COLD SPRINGS ROAD
LYSANDER, NY 13027

PROJECT NUMBER: 22-0469

REV	DATE	DRAWN	CHECKED	REASON
1	04/27/23	SR/KR	MCK	SUP UPDATE
2	06/29/23	SR/KR	MCK	SUP UPDATE

SCALES SHOWN IN DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

C-5.0
CIVIL DETAILS

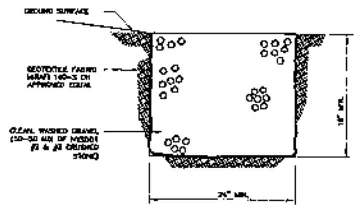


(12) OVERFLOW WEIR DETAIL

SCALE: 1/2" = 1'-0"

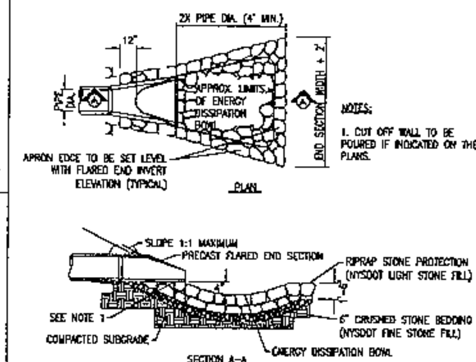
NOTES:
1. STABILIZE ALL AREAS OF SPOIL MATERIAL PLACEMENT WITH SEED AND ROLLED EROSION CONTROL BLANKET NORTH AMERICAN GREEN SC150 OR APPROVED EQUAL.

SLOPE (%)	SPACING (FT.)
< 5	125
5-10	100
10-20	75
20-35	50
> 35	25



(10) STONE DIAPHRAGM / LEVEL SPREADER

SCALE: N.T.S.

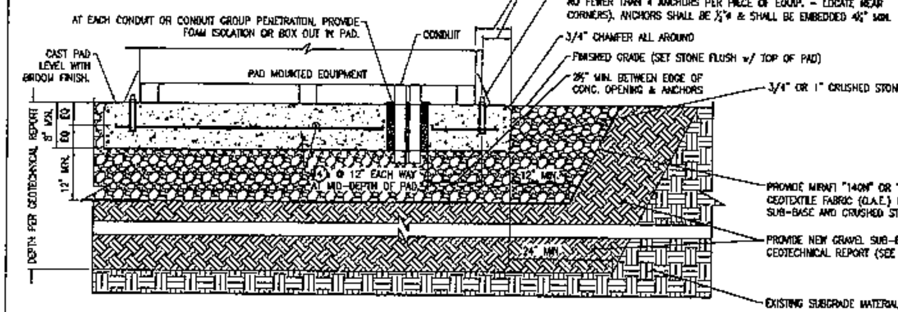


NOTES:
1. CUT OFF WALL TO BE POURED IF INDICATED ON THE PLANS.

(11) FLARED END SECTION/RIP-RAP APRON

SCALE: N.T.S.

NOTES:
1. REFERENCE GEOTECHNICAL REPORT FOR SPECIFIC SUB-BASE FILL SPECIFICATION, OVER-EXCAVATION DEPTH, LIFT DEPTH, AND COMPACTION REQUIREMENTS.
2. THE EXTENTS OF THE OVER-EXCAVATION SHALL EXTEND HORIZONTALLY THE SAME DISTANCE BEYOND THE EDGE OF THE PAD AS THE DEPTH OF THE EXCAVATION.



(13) CAST-IN-PLACE CONCRETE EQUIPMENT PAD - SECTION

SCALE: N.T.S.

new leaf energy

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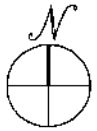
4/27/2023

3354 COLD SPRINGS SOLAR, LLC
3400 COLD SPRINGS ROAD
LYSANDER, NY 13027

PROJECT NUMBER: 22-0469

REV	DATE	DRAWN	CHECKED	RELEASE LVL
1	04/27/23	SR/KR	MDK	SUP UPDATE
2	06/29/23	SR/KR	MDK	SUP UPDATE

C-5.1
CIVIL DETAILS



LANDSCAPING PLAN

SCALE: 1" = 11'

new leaf energy

EROMAN ANTHONY

NOT FOR CONSTRUCTION

4/27/2023

3354 COLD SPRINGS SOLAR, LLC
3400 COLD SPRINGS ROAD
LYSANDER, NY 13027

PROJECT NUMBER:
22-0465

REV	DATE	DRAWN	CHECKED	RELEASE LEVEL
1	04/27/23	SR/KR	MDK	SUP UPDATE
2	06/29/23	SR/KR	MDK	SUP UPDATE

C-6.0
LANDSCAPING PLAN