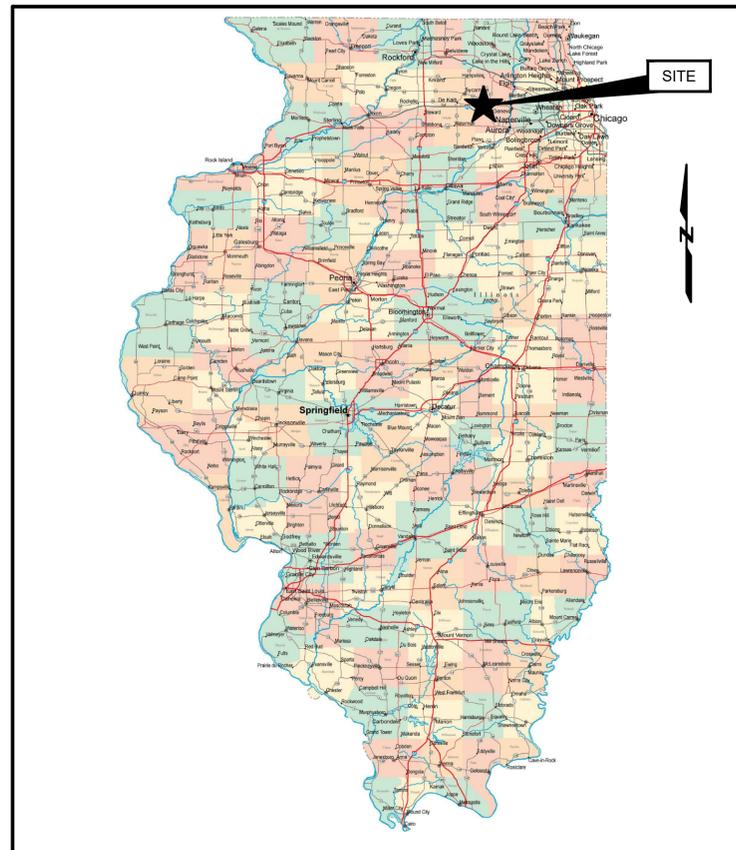


5.0 MW AC GROUND MOUNTED SOLAR FARM

KANESOLAR02 LLC - ALEXANDER-JOHNSON SOLAR FACILITY
SECTION 3, T39N, R6E, KANEVILLE TOWNSHIP, KANE COUNTY
ILLINOIS ROUTE 38, MAPLE PARK, ILLINOIS 60151

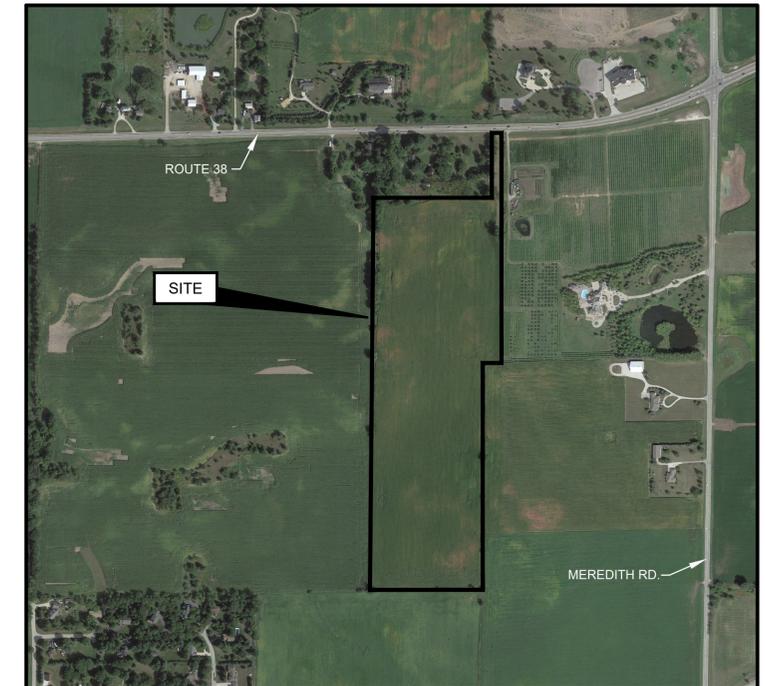


ILLINOIS STATE MAP
(NOT TO SCALE)



SOURCE:
GOOGLE EARTH

SITE VICINITYMAP
(NOT TO SCALE)



SOURCE:
GOOGLE EARTH

SITE LOCATION MAP
(NOT TO SCALE)

PROJECT DATA	
MODULE TYPE	TRINA TSM-DEG20C.20 - 585W MODULE
MODULE DIMENSIONS (INxIN)	85.51"(L) x 51.30"(W) x 1.57"(H)
MODULE WATTAGE (W STC)	585
#MODULES	12800
SYSTEM SIZE (MWDC STC)	7.49
ARRAY TILT (DEGREES)	SINGLE AXIS TRACKER
AZIMUTH (DEGREES)	180°
INVERTER TYPE	CHINT CPS SCH125KTL-DO/US-600
#INVERTERS	40
GROSS NAMEPLATE RATING (MWAC)	5.00
SERVICE VOLTAGE OF MAIN PANEL	34,500V
SYSTEM AC OUTPUT CURRENT	83.68A

PREPARED FOR:

KANESOLAR02 LLC
330 W. GOETHE ST.
CHICAGO, IL 60610

LANDOWNER INFO
BLAIR H. ALEXANDER
RICHARD F. JOHNSON
44 LAKE MARIAN RD
CARPENTERSVILLE, IL 60110

PREPARED BY:

GEI CONSULTANTS, INC.
8615 W. BRYN MAWR AVE.
SUITE 406
CHICAGO, IL 60631
(312)985-0365



SHEET INDEX		
SHEET NO.	DRAWING NO.	SHEET TITLE
1	C-1	TITLE & SHEET LIST
2	C-2	EXISTING SITE CONDITIONS - IMAGERY
3	C-3	EXISTING SITE CONDITIONS - TOPOGRAPHY
4	C-4	AREA PROPERTIES & ZONING
5	C-5	AREA DRAINAGE, FLOODWAY & WETLANDS
6	C-6	SOLAR PANEL LAYOUT PLAN
7	C-7	TYPICAL DETAILS
8	C-8	LANDSCAPING PLAN

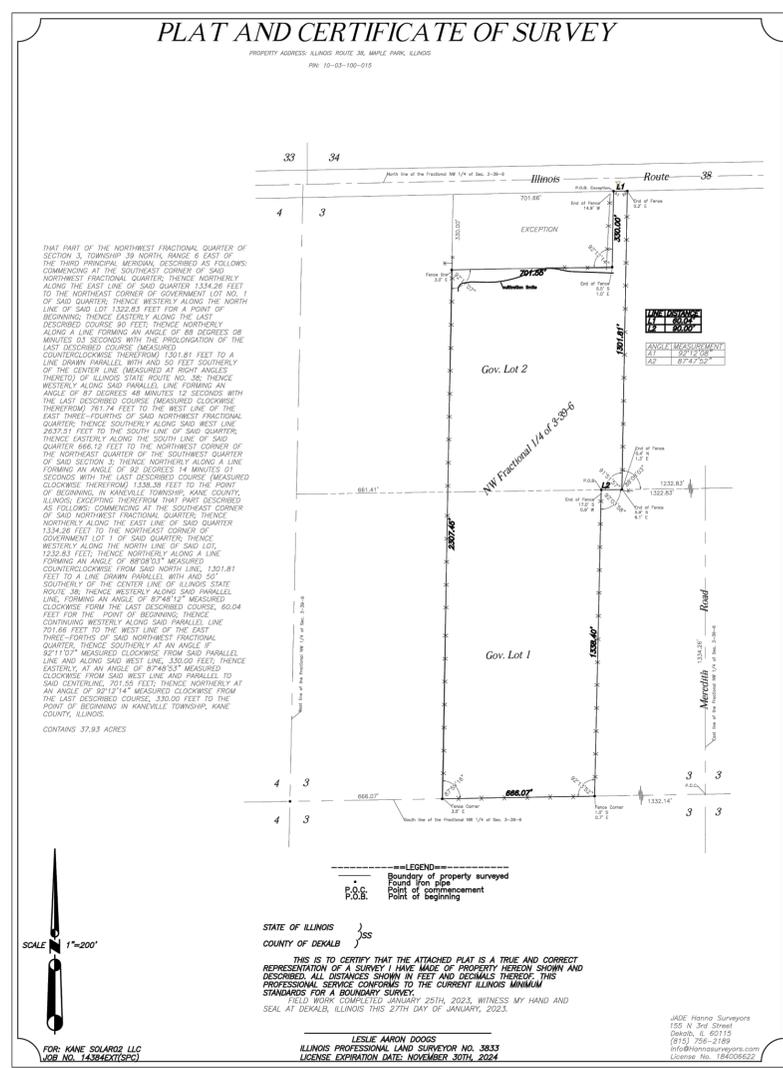
NOT FOR CONSTRUCTION



DWG. NO. C-1
SHEET NO. 1 OF 8
REV NO. 0

GEI PROJECT NO. 2303049
SEPTEMBER 5, 2023

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, IS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF GEI CONSULTANTS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GEI CONSULTANTS.



PLAT OF SURVEY

NOT TO SCALE

- LEGEND**
- SITE PROPERTY BOUNDARY (APPROXIMATE)
 - PROPERTY BOUNDARY SETBACK, 50'
 - ADJACENT PARCEL LINES
 - 47W831 PROPERTY ADDRESS

NOTES (APPLICABLE TO ALL SHEETS)

- 1) PROPERTY/PARCEL LINES, PARCEL ID NUMBERS, ADDRESSES, AND ZONING CLASSIFICATIONS SHOWN ARE FROM KANE COUNTY, ILLINOIS, GIS DATA >> https://gitech.countyofkane.org/gisims/kanemap/kanegis4_agox.html
- 2) ALL PROPERTY/PARCEL LINE LOCATIONS ARE APPROXIMATE ONLY AND DO NOT REPRESENT A SURVEY. SEE THE RECORDED DOCUMENTS FOR MORE DETAILED LEGAL INFORMATION.
- 3) IMAGE SOURCE: GOOGLE EARTH, SEPTEMBER 9, 2017
- 4) TOPOGRAPHIC CONTOURS FROM LIDAR SURVEY IN APRIL & MAY, 2017

Attention:

If this scale bar does not measure 1" then drawing is not original scale.

Designed:	FZW
Drawn:	KJC
Checked:	MFS
Approved:	KAP
P.E. No.:	062.072571
GEI Project:	2303049



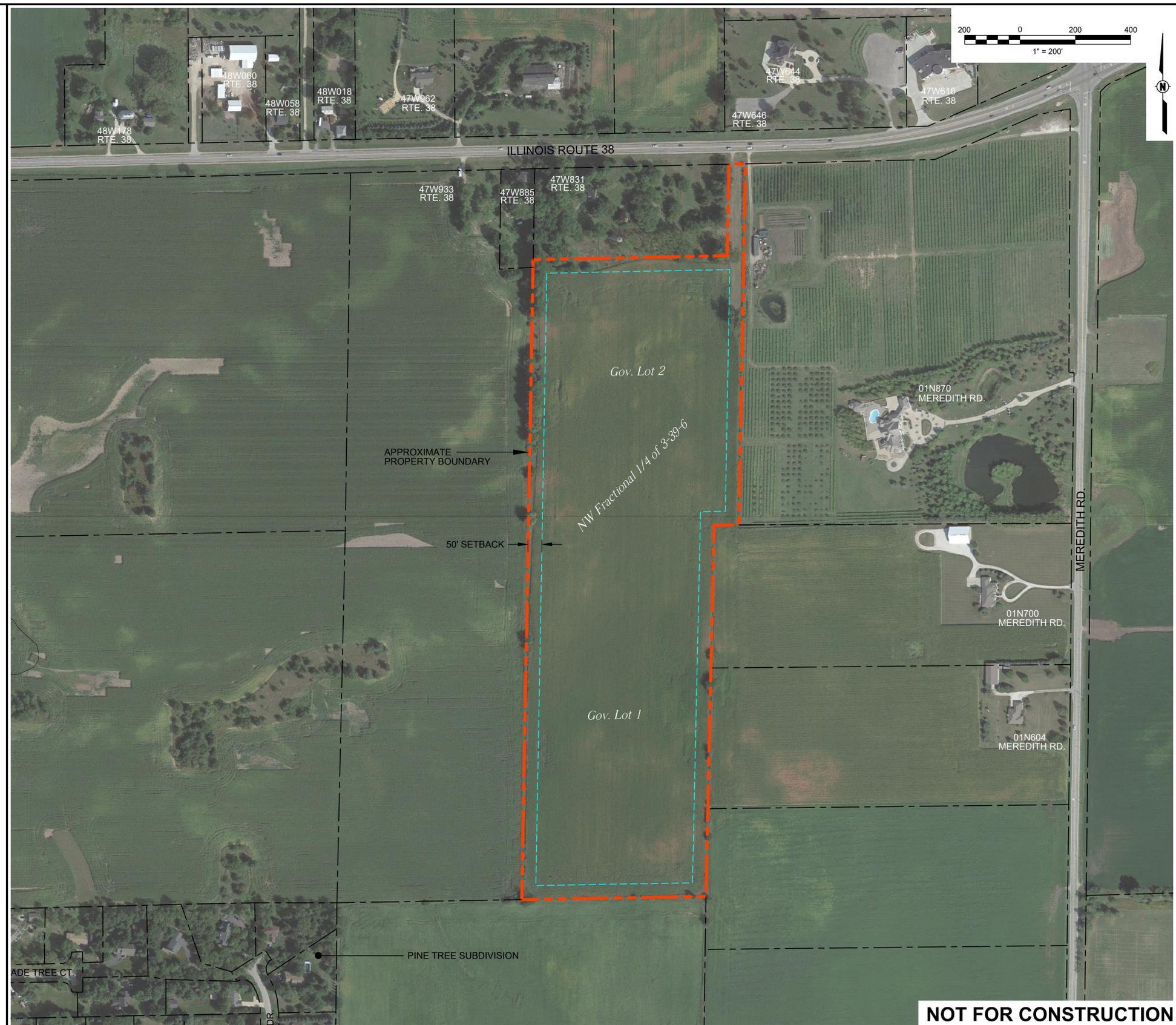
KANESOLAR02 LLC
330 W. GOETHE ST.
CHICAGO, IL 60610

5.0 MW AC GROUND MOUNTED SOLAR FARM

KANESOLAR02 LLC
ALEXANDER-JOHNSON SOLAR FACILITY
ILLINOIS ROUTE 38
MAPLE PARK, IL 60151

NO	DATE	ISSUE/REVISION	KAP	APP
0	8/30/2023	SPECIAL USE APPLICATION	KAP	
		ISSUE/REVISION		APP

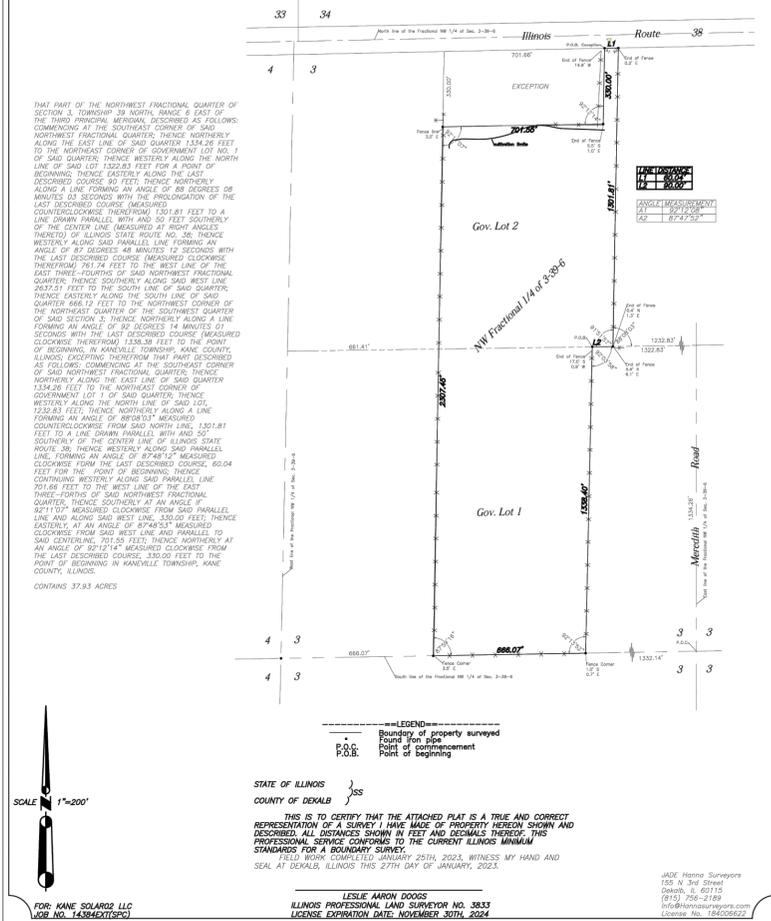
SHEET NAME	DRAWING NO.
EXISTING SITE CONDITIONS - IMAGERY	C-2



NOT FOR CONSTRUCTION

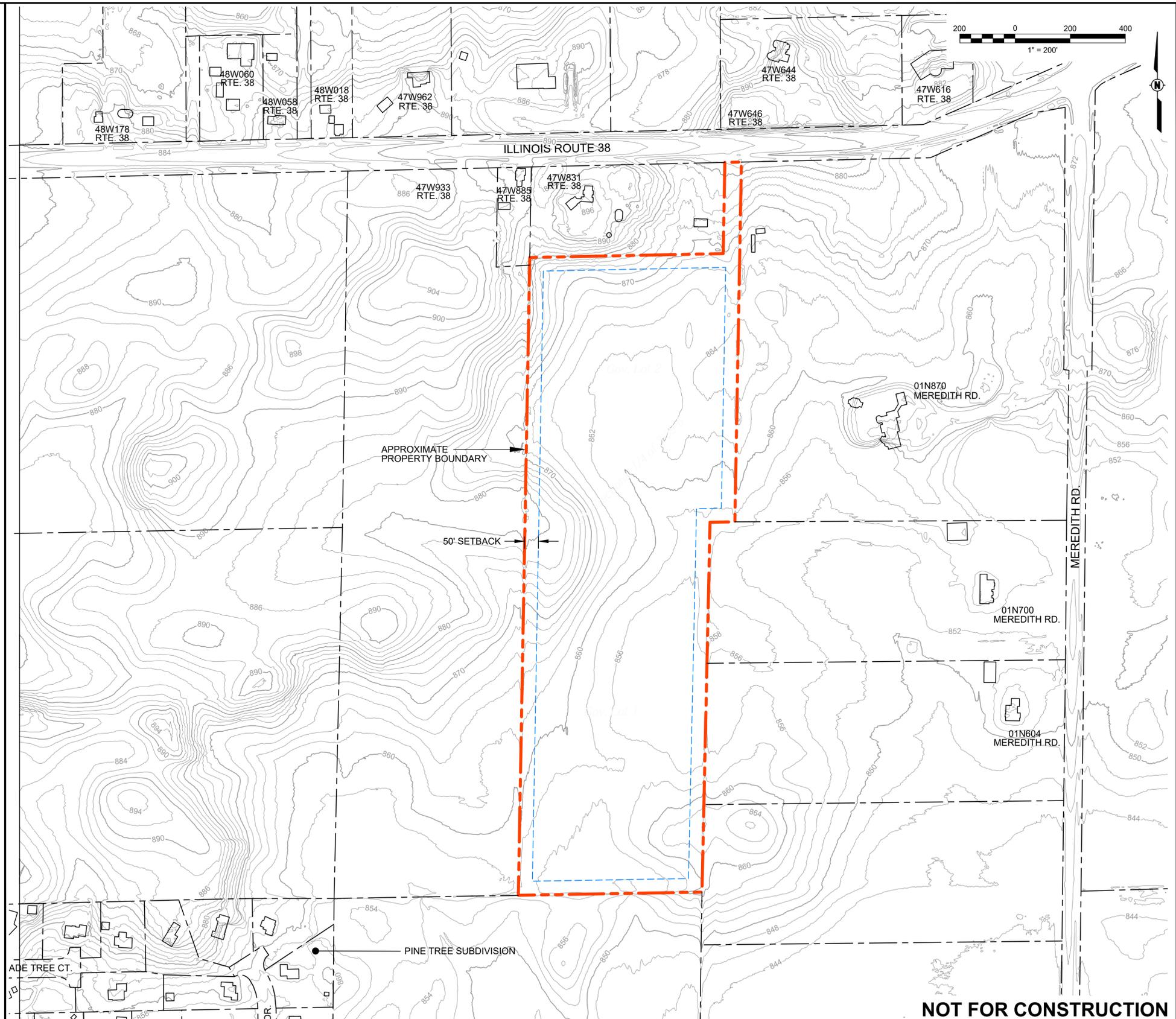
PLAT AND CERTIFICATE OF SURVEY

PROPERTY ADDRESS: ILLINOIS ROUTE 38, MAPLE PARK, ILLINOIS
 PIN: 10-03-100-015



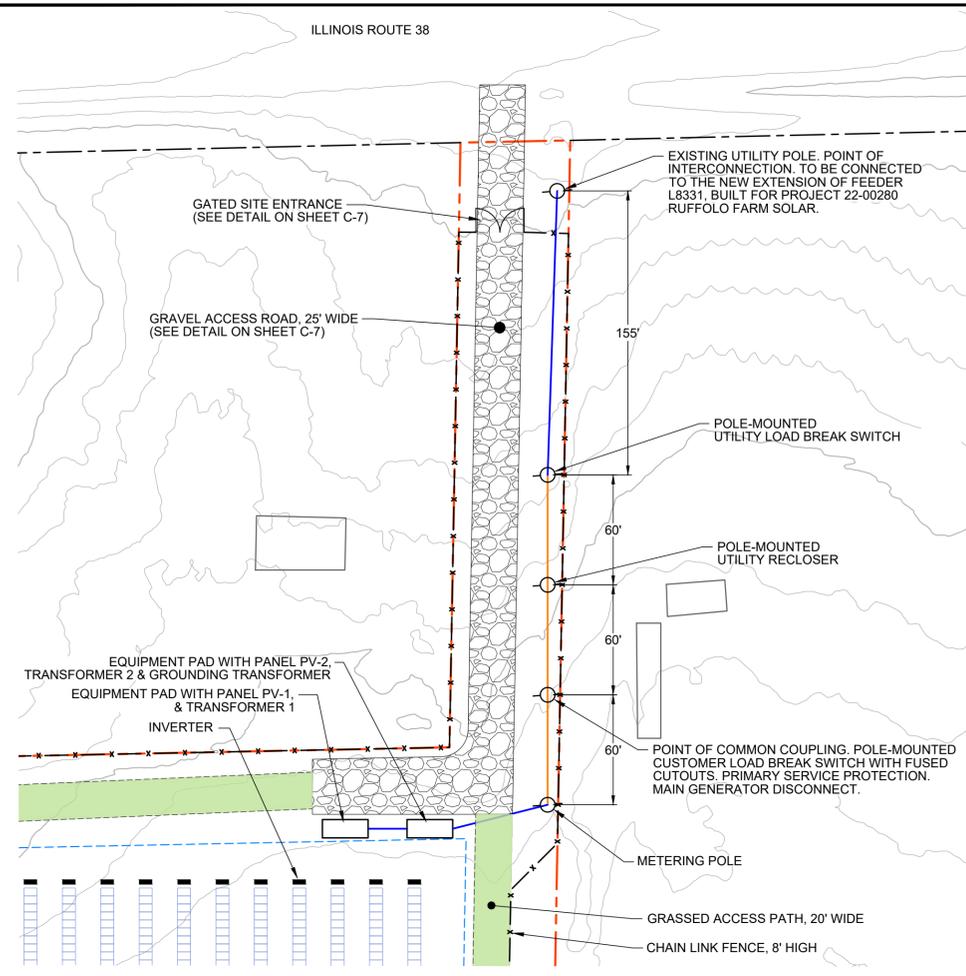
PLAT OF SURVEY
 NOT TO SCALE

- LEGEND**
- - - - - SITE PROPERTY BOUNDARY (APPROXIMATE)
 - - - - - PROPERTY BOUNDARY SETBACK, 50'
 - - - - - ADJACENT PARCEL LINES
 - 47W831 PROPERTY ADDRESS
 - 860 GROUND SURFACE CONTOUR
 - BUILDING



NOT FOR CONSTRUCTION

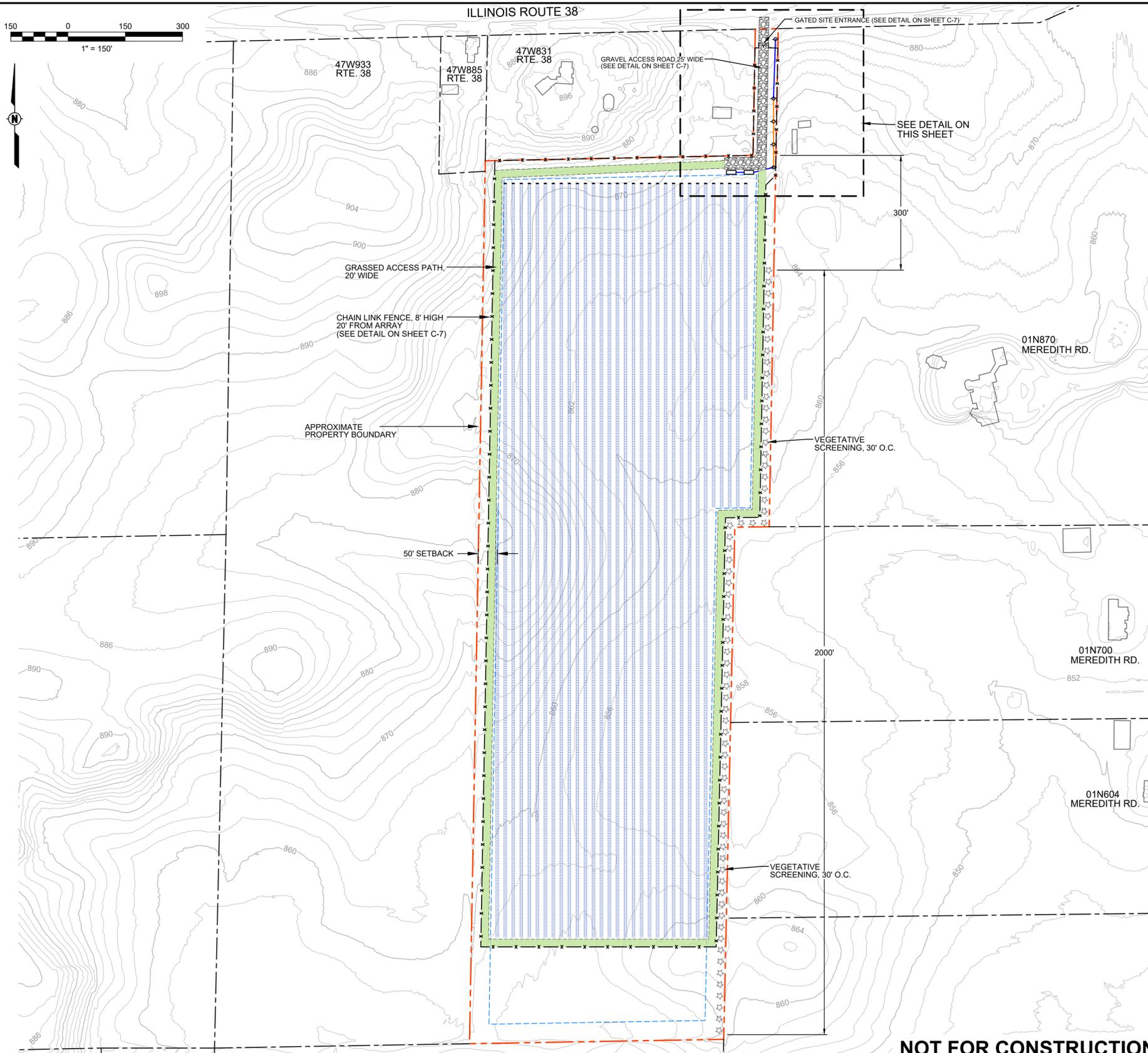
Attention: If this scale bar does not measure 1" then drawing is not original scale.	Designed: FZW Drawn: KJC Checked: MFS Approved: KAP P.E. No: 062.072571 GEI Project: 2303049	 GEI CONSULTANTS, INC. 8615 W. BRYAN MAWR AVE. SUITE 406 CHICAGO, IL 60631 (312) 985-0365	5.0 MW AC GROUND MOUNTED SOLAR FARM KANESOLAR02 LLC ALEXANDER-JOHNSON SOLAR FACILITY ILLINOIS ROUTE 38 MAPLE PARK, IL 60151	SHEET NAME EXISTING SITE CONDITIONS - TOPOGRAPHY		DRAWING NO. C-3	
	0 NO			8/30/2023 DATE	SPECIAL USE APPLICATION ISSUE/REVISION	KAP APP	



NOTES
1) ELECTRICAL COMPONENTS SHOWN ARE SCHEMATIC. FINAL ELECTRICAL DESIGN AND LAYOUT WILL BE COMPLETED BY OTHERS.

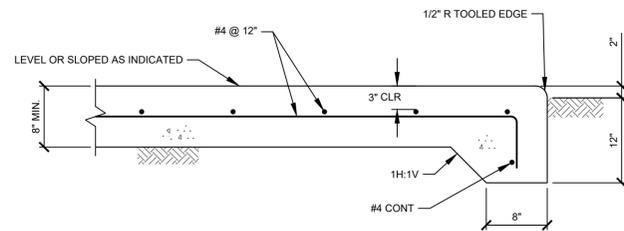
LEGEND

	SITE PROPERTY BOUNDARY (APPROXIMATE)
	PROPERTY BOUNDARY SETBACK, 50'
	ADJACENT PARCEL LINES
47W831	PROPERTY ADDRESS
	GROUND SURFACE CONTOUR
	BUILDING
	PERIMETER FENCE
	GRAVEL ACCESS ROAD
	SOLAR PANEL
	INVERTER
	POWER POLE
	EQUIPMENT PAD & TRANSFORMER
	TREE PLANTING, 30' O.C.



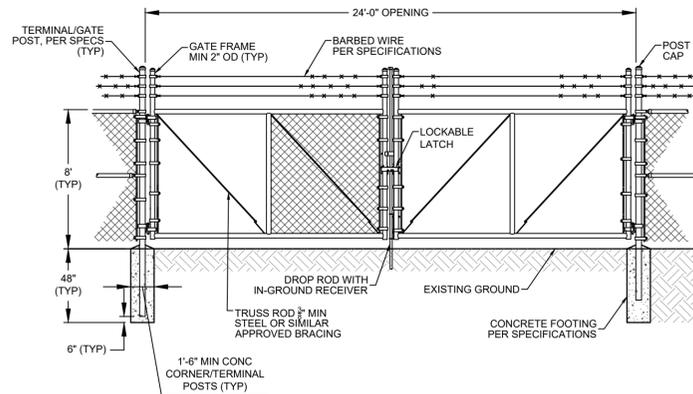
<p>Attention:</p> <p>If this scale bar does not measure 1" then drawing is not original scale.</p>	<p>Designed: FZW</p> <p>Drawn: KJC</p> <p>Checked: MFS</p> <p>Approved: KAP</p> <p>P.E. No: 062.072571</p> <p>GEI Project 2303049</p>	<p>GEI Consultants 8615 W. BRYAN MAWR AVE. SUITE 406 CHICAGO, IL 60631 (312)985-0365</p>	<p>5.0 MW AC GROUND MOUNTED SOLAR FARM</p> <p>KANESOLAR02 LLC ALEXANDER-JOHNSON SOLAR FACILITY ILLINOIS ROUTE 38 MAPLE PARK, IL 60151</p>	<table border="1"> <tr> <th>NO</th> <th>DATE</th> <th>ISSUE/REVISION</th> <th>APP</th> </tr> <tr> <td>0</td> <td>8/30/2023</td> <td>SPECIAL USE APPLICATION</td> <td>KAP</td> </tr> <tr> <td></td> <td></td> <td>ISSUE/REVISION</td> <td>APP</td> </tr> </table>	NO	DATE	ISSUE/REVISION	APP	0	8/30/2023	SPECIAL USE APPLICATION	KAP			ISSUE/REVISION	APP	<p>SHEET NAME</p> <p>SOLAR PANEL LAYOUT PLAN</p>	<p>DRAWING NO.</p> <p>C-6</p>
	NO				DATE	ISSUE/REVISION	APP											
0	8/30/2023	SPECIAL USE APPLICATION	KAP															
		ISSUE/REVISION	APP															

E:\Landfile\Horizon\Solar-Alexander\6_Solar-Panel-Layout.dwg - 8/28/2023



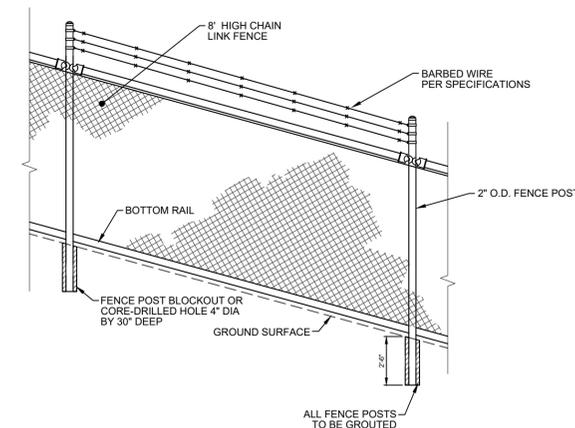
NOTE:
1. ELECTRICAL DESIGNER TO REVIEW SLAB ON-GRADE DESIGN FOR PAD-MOUNT EQUIPMENT AND UPDATE/REDESIGN AS NECESSARY TO SUPPORT THE APPLIED LOADS AND PROVIDE CONNECTION DETAILS BETWEEN THE EQUIPMENT AND FOUNDATIONS.

SLAB ON-GRADE EQUIPMENT PAD DETAIL
SCALE: NTS

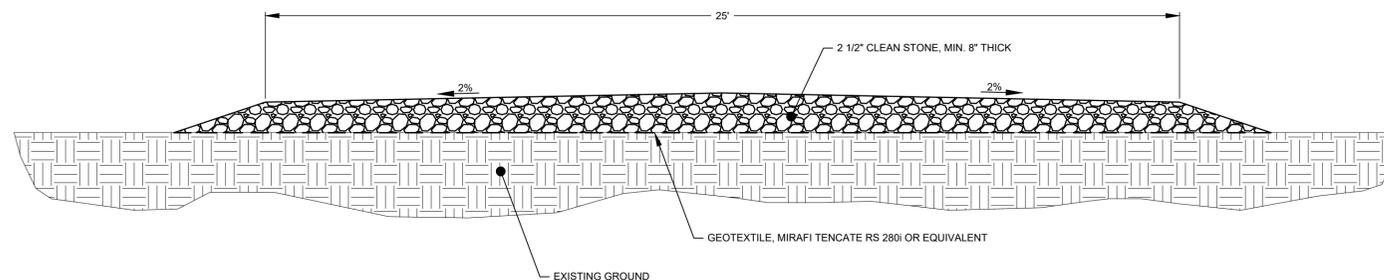


NOTE:
CHAIN LINK FENCE FABRIC FOR GATE: 9 GA. 2" MESH (TYP) TOP SELVAGE TWISTED, BOTTOM SELVAGE KNUCKLED

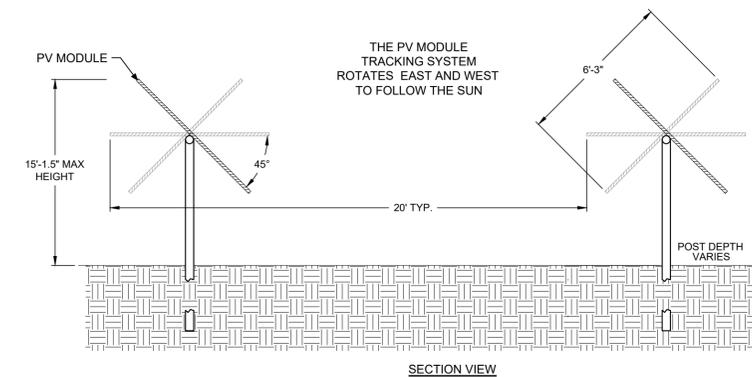
DOUBLE SWING GATE DETAIL
SCALE: NTS



CHAIN LINK FENCE DETAIL
SCALE: NTS



ACCESS/HAUL ROAD DETAIL
SCALE: NTS



SECTION VIEW

TRACKER RACK DETAIL
SCALE: NTS

NOT FOR CONSTRUCTION

<p>Attention:</p> <p>If this scale bar does not measure 1" then drawing is not original scale.</p>	Designed: FZW	<p>GEI CONSULTANTS, INC. 8615 W. BRYAN MAWR AVE. SUITE 406 CHICAGO, IL 60631 (312)985-0365</p>	<p>5.0 MW AC GROUND MOUNTED SOLAR FARM</p> <p>KANESOLAR02 LLC ALEXANDER-JOHNSON SOLAR FACILITY ILLINOIS ROUTE 38 MAPLE PARK, IL 60151</p>							
	Drawn: KJC									
	Checked: MFS									
	Approved: KAP									
	P.E. No: 062.072571									
GEI Project 2303049				0	8/30/2023	SPECIAL USE APPLICATION	KAP			
				NO	DATE	ISSUE/REVISION	APP			
								SHEET NAME	DRAWING NO.	
								TYPICAL DETAILS	C-7	

LANDSCAPE/PLANTING NOTES:

- Contractor shall perform work in compliance with all environmental permits.
- Contractor shall request utility mark-outs before beginning work. Contractor is advised that hand digging and shallow raking will be required in proximity to buried utilities and heavy machinery may be prohibited on site during planting operations.
- Access to the site shall be through the existing driveway and vehicular paths, and location of temporary staging areas will be directed by the owner.
- Site preparation shall include removal of all weeds and invasive species, surface debris, rubble, stones, and cobbles greater than 1 inch in size, and any materials deleterious to plant growth. Planting bed shall be graded to existing surrounding grades.

PLANTINGS:

- Plant installations shall take place during dry and unfrozen ground conditions during the following seasonal windows: March 1st to May 15th, or August 15th to November 1st.
- Deliver plants immediately prior to planting on site. Temporary storage of any plant materials after delivery shall not exceed one week. Plants must remain out of direct exposure to sun and wind, and moisture of plant containers or root balls must be maintained by covering with wet straw or cloth and periodic watering until time of planting.
- Handle all plant materials in a manner so as to avoid damages to the plants, root balls and containers. Do not stack plants during transport or temporary storage to avoid crushing. All plants that are damaged, not in healthy growing conditions, or lacking well developed roots shall be rejected and replaced at contractor's expense.
- It is the design intent that all plants be installed at the on-center spacing shown in the plant schedule.
- Set plants straight or plumb in locations indicated on plan, and at a level after settlement that matches the finished grade in the former growing medium.
- Absorbent polymer and time release organic fertilizer with mycorrhizal inoculant should be added to plant pits during planting.
- Containers and/or wire frames must be removed from the root balls before planting. Twine at the top of the root ball of balled and burlapped trees shall be cut, and the top of the burlap rolled back 1/3 to expose the soil before backfilling plant pits.
- Stake trees in place as shown in the typical planting detail.
- Water plants during planting operations. All plantings must be watered once per week for 3 months during the growing season to avoid transplant shock, unless the planted areas receive a minimum of 1 inch of rainfall during the week.
- Contractor shall provide a 1-year guarantee to replace dead or stressed plant material.
- All replacement plantings shall be completed no later than the next consecutive planting season.
- Contractor shall provide routine maintenance throughout the 1-year guarantee period, which includes watering, removal of weeds and invasive species, and reinforcement of plant stakes.

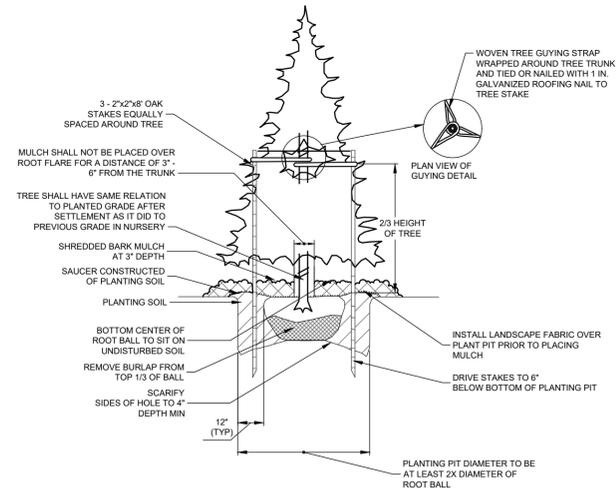
SEEDING:

- Lightly rake the seedbed to remove all weeds, surface debris, sticks, roots, rubbish and rocks greater than 1/2 inch in size.
- Seeding shall take place during dry and unfrozen ground conditions during the following seasonal windows: March 1st to May 15th, or August 15th to September 30th.
- Specified pollinator seed mix, or approved equal shall applied under solar panels as shown on the landscape plan after site preparation and fine grading.
- Drill seed, broadcast, hydroseed or utilize a method that will ensure uniform distribution of all seeds in the mixture.
- Broadcast seeded areas shall be lightly raked or tamped after application to maximize seed/soil contact.
- Apply jute mesh over all seeded areas that exceed a 3 ft. horizontal: 1 ft. vertical slope.
- Protect seeded areas against traffic or other use immediately after seeding by erecting barricades and placing warning signs.
- Seeded areas that are damaged by runoff gullies or rills shall be repaired, re-seeded, and covered with straw mulch during the same growing season.

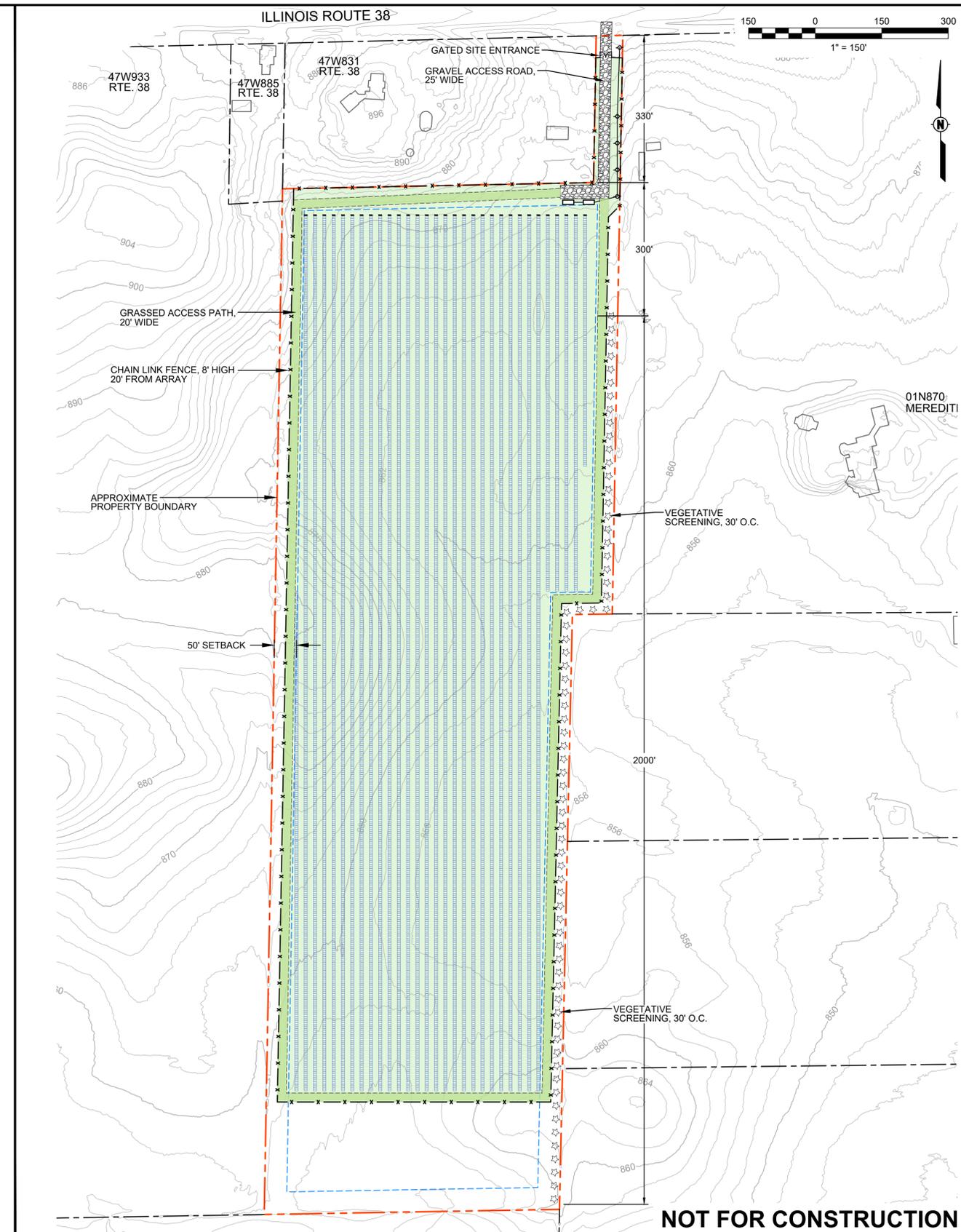
POLLINATOR SEED MIXTURE APPLICATION RATE ~25 LBS/ACRE			
% BY WEIGHT	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT (FT)
5.0	<i>Agrostis perennans</i>	Autumn Bentgrass	3.5
2.0	<i>Eragrostis spectabilis</i>	Purple Lovegrass	1.5
20.0	<i>Schizachyrium scoparium</i>	Little Bluestem	3.9
23.7	<i>Bouteloua curtipendula</i>	Sideoats Grama	3.2
0.5	<i>Pestimone hirsutus</i>	Hairy Beardtongue	2.9
2.6	<i>Chamaecrista fasciculata</i>	Partridge Pea	2.9
2.0	<i>Coreopsis lanceolata</i>	Lanceleaf Coreopsis	3.3
15.0	<i>Gaillardia aristata</i>	Perennial Gaillardia (Blanket Flower)	2.3
0.2	<i>Oenothera speciosa</i>	Showy Evening Primrose	2.0
3.0	<i>Rudbeckia hirta</i>	Blackeyed Susan	3.3
2.5	<i>Aster prenanthoides</i>	Zig Zag Aster	3.3
5.0	<i>Monarda punctata</i>	Spotted Beebalm	3.3
3.0	<i>Anemone canadensis</i>	Canadian Anemone	2.3
2.0	<i>Aquilegia canadensis</i>	Eastern Columbine	2.6
3.0	<i>Asclepias tuberosa</i>	Butterfly Milkweed	2.9
3.0	<i>Aster laevis</i>	Smooth Blue Aster	3.3
3.0	<i>Aster oblongifolius</i>	Aromatic Aster	3.3
0.2	<i>Lupinus perennis</i>	Perennial Blue Lupine	2.0
2.0	<i>Coreopsis grandiflora</i>	Large Leaf Tickseed	2.6
0.3	<i>Pycnanthemum virginianum</i>	Virginia Mountainmint	3.3
2.0	<i>Conoclinium coelestinum</i>	Blue Mistflower	3.3
100 %			

LEGEND

- SITE PROPERTY BOUNDARY (APPROXIMATE)
- PROPERTY BOUNDARY SETBACK, 50'
- ADJACENT PARCEL LINES
- PROPERTY ADDRESS
- GROUND SURFACE CONTOUR
- BUILDING
- PERIMETER FENCE
- GRAVEL ACCESS ROAD
- SOLAR PANEL
- 125KW STRING INVERTER
- POWER POLE
- EQUIPMENT PAD & TRANSFORMER
- TREE PLANTING, 30' O.C., WHITE SPRUCE OR SIMILAR 4' TALL AT TIME OF PLANTING
- POLLINATOR FRIENDLY NATIVE GROUND COVER



TREE PLANTING AND SUPPORT
NOT TO SCALE



NOT FOR CONSTRUCTION

<p>Attention:</p> <p>If this scale bar does not measure 1" then drawing is not original scale.</p>	<p>Designed: FZW</p> <p>Drawn: KJC</p> <p>Checked: MFS</p> <p>Approved: KAP</p> <p>P.E. No: 062.072571</p> <p>GEI Project: 2303049</p>	<p>GEI CONSULTANTS, INC. 8615 W. BRYAN MAWR AVE. SUITE 406 CHICAGO, IL 60631 (312)985-0365</p>	<p>5.0 MW AC GROUND MOUNTED SOLAR FARM</p> <p>KANESOLAR02 LLC ALEXANDER-JOHNSON SOLAR FACILITY ILLINOIS ROUTE 38 MAPLE PARK, IL 60151</p>	<p>SHEET NAME</p> <p>LANDSCAPING PLAN</p>	<p>DRAWING NO.</p> <p>C-8</p>
	<p>0 8/30/2023 SPECIAL USE APPLICATION KAP</p> <p>NO DATE ISSUE/REVISION APP</p>				