

ILLINOIS STATE MAP (NOT TO SCALE)

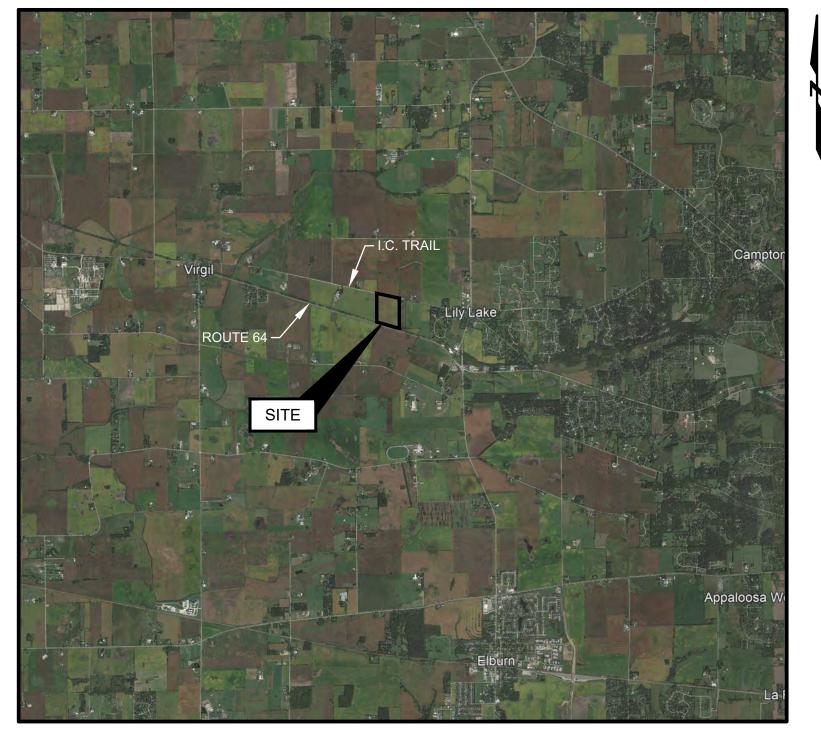
PROJECT DATA		
MODULE TYPE	TRINA TSM-DEG20C.20 - 585W MODULE	
MODULE DIMENSIONS (INxIN)	85.51"(L) x 51.30"(W) x 1.57"(H)	
MODULE WATTAGE (W STC)	585	
#MODULES	12800	
SYSTEM SIZE (MWDC STC)	7.49	
ARRAY TILT (DEGREES)	SINGLE AXIS TRACKER	
AZIMUTH (DEGREES)	180°	
INVERTER TYPE	CHINT CPS SCH125KTL-DO/US-600	
#INVERTERS	40	
GROSS NAMEPLATE RATING (MWAC)	5.00	
SERVICE VOLTAGE OF MAIN PANEL	13800V	
SYSTEM AC OUTPUT CURRENT	209.19A	

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5.0 MW AC GROUND MOUNTED SOLAR FARM

ILSOLARO5 LLC - HARTMANN FARM SOLAR 45W531 IC TRAIL, MAPLE PARK, ILLINOIS 60151





SITE VICINITYMAP (NOT TO SCALE)

PREPARED FOR:

ILSOLARO5 LLC 330 W. GOETHE ST. CHICAGO, IL 60610

LANDOWNER INFO DALE & JENNIFER HARTMANN 7N425 SAUBER ROAD MAPLE PARK, IL 60151

PREPARED BY:

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





SOURCE: GOOGLE EARTH

c)



SITE LOCATION MAP (NOT TO SCALE)

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

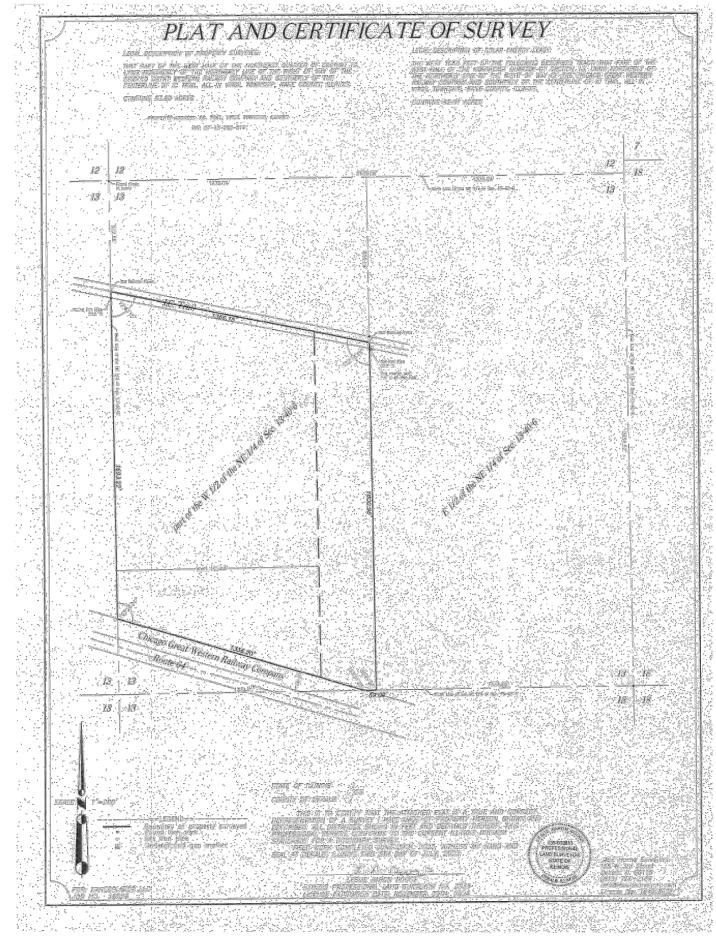


DWG. NO. C-1

SHEET NO.

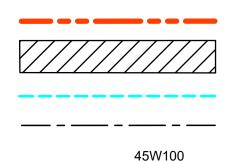
1 OF 8

REV NO. 0



PLAT OF SURVEY

LEGEND



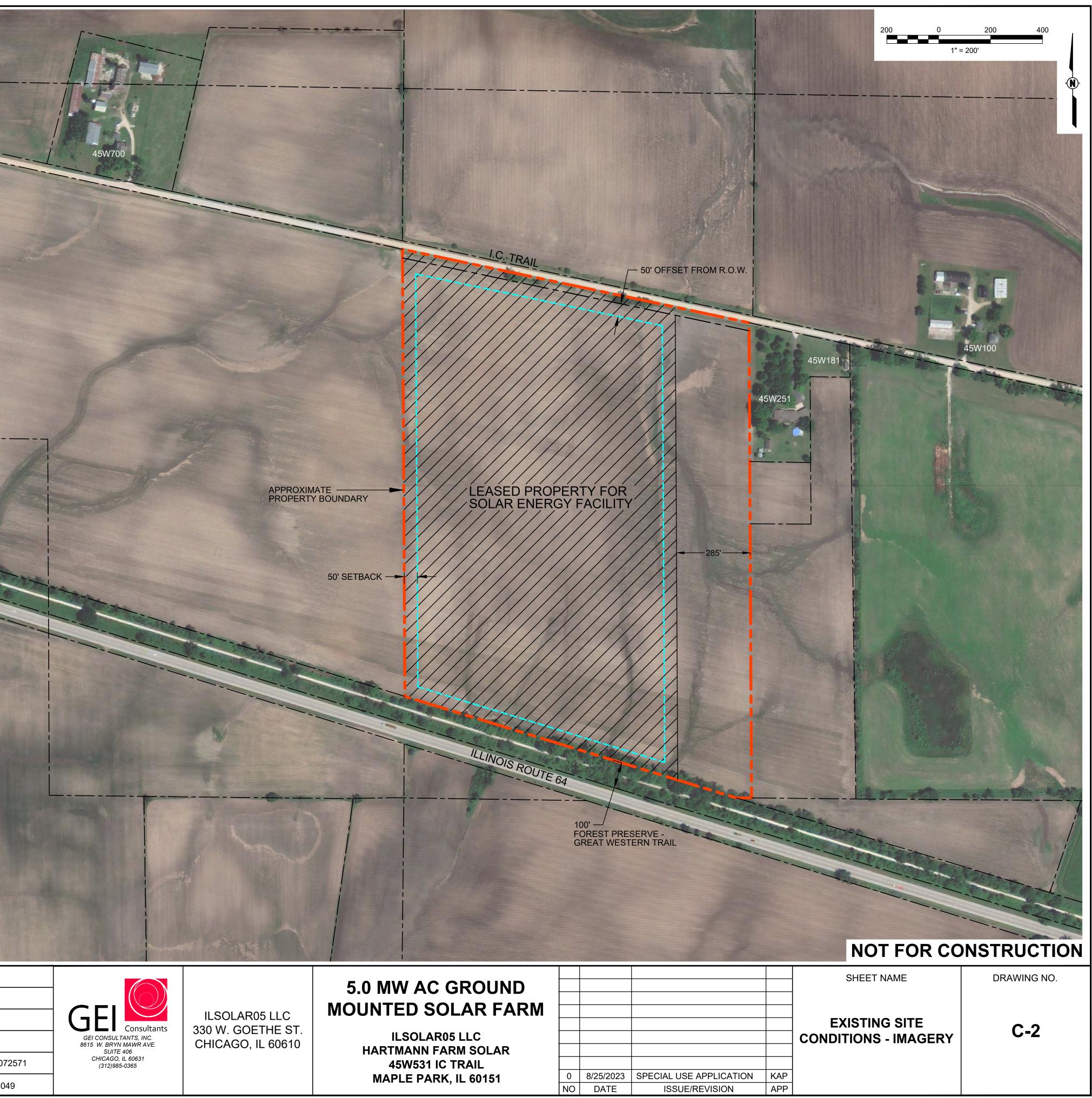
SITE PROPERTY BOUNDARY (APPROXIMATE) PROPERTY LEASED FOR SOLAR FACILITY PROPERTY BOUNDARY SETBACK, 50' ADJACENT PARCEL LINES PROPERTY ADDRESS

NOTES (APPLICABLE TO ALL SHEETS)

PROPERTY/PARCEL LINES, PARCEL ID NUMBERS, ADDRESSES, AND ZONING CLASSIFICATIONS SHOWN ARE FROM KANE COUNTY, ILLINOIS, GIS DATA >> https://gistech.countyofkane.org/gisims/kanemap/kanegis4_agox.html

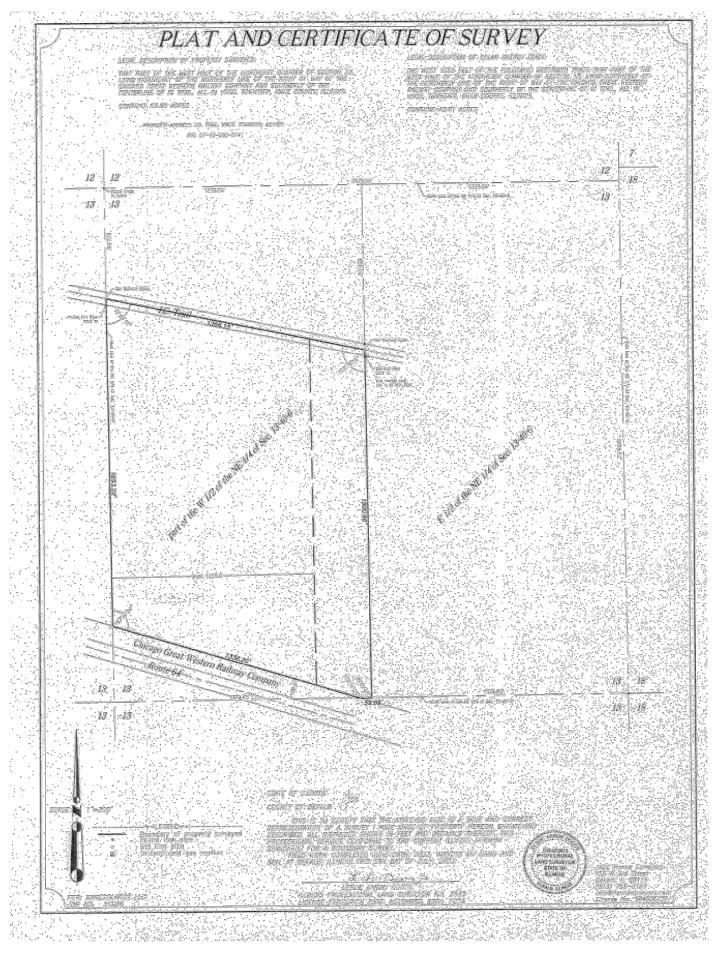
- 2) ALL PROPERTY/PARCEL LINE LOCATIONS ARE APPROXIMATE ONLY AND DO NOT REPRESENT A SURVEY. SEE THE RECORDED DOCUMENTS FOR MORE DETAILED LEGAL INFORMATION.
- 3) IMAGE SOURCE: GOOGLE EARTH, JUNE 14, 2020
- 4) TOPOGRAPHIC CONTOURS FROM LIDAR SURVEY IN APRIL & MAY, 2017

	Designed:	FZW
Attention: 0 1" If this scale bar does not measure 1" then drawing is not original scale.	Drawn:	KJC
	Checked:	MFS
	Approved:	KAP
	P.E. No:	062.07
	GEI Project	230304





0	8/25/2023	SPE
NO	DATE	





<u>LEGEND</u>

45W100

SITE PROPERTY BOUNDARY (APPROXIMATE) PROPERTY BOUNDARY SETBACK, 50' ADJACENT PARCEL LINES PROPERTY ADDRESS GROUND SURFACE CONTOUR BUILDING

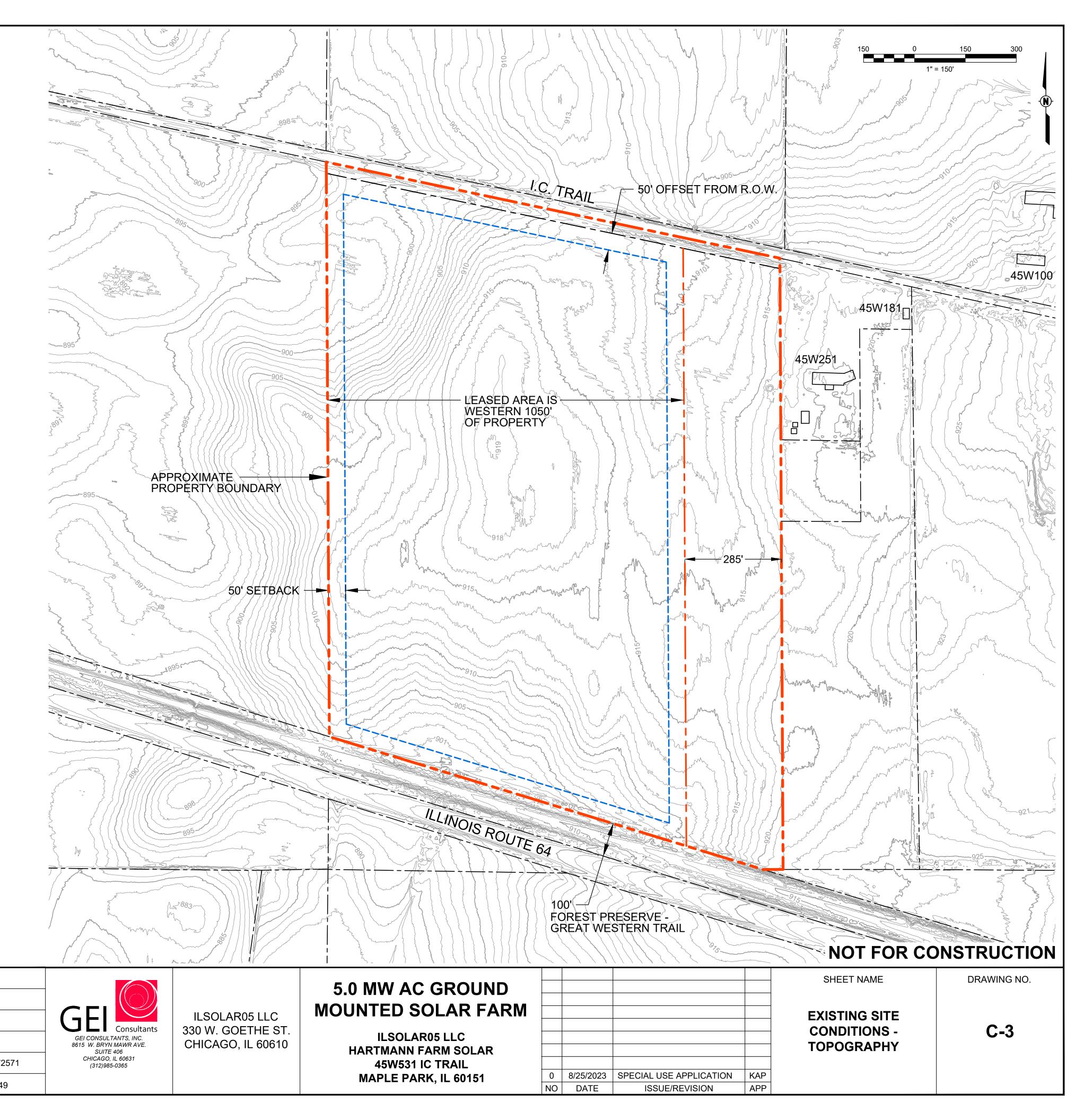
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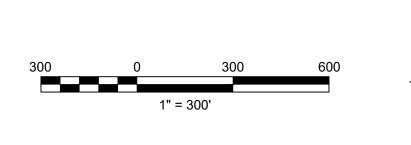
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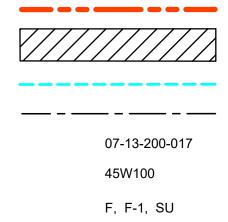
1" then drawing is not original scale.

	Designed:	FZW
	Drawn:	KJC
	Checked:	MFS
	Approved:	KAP
	P.E. No:	062.072
	GEI Project	230304

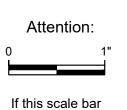




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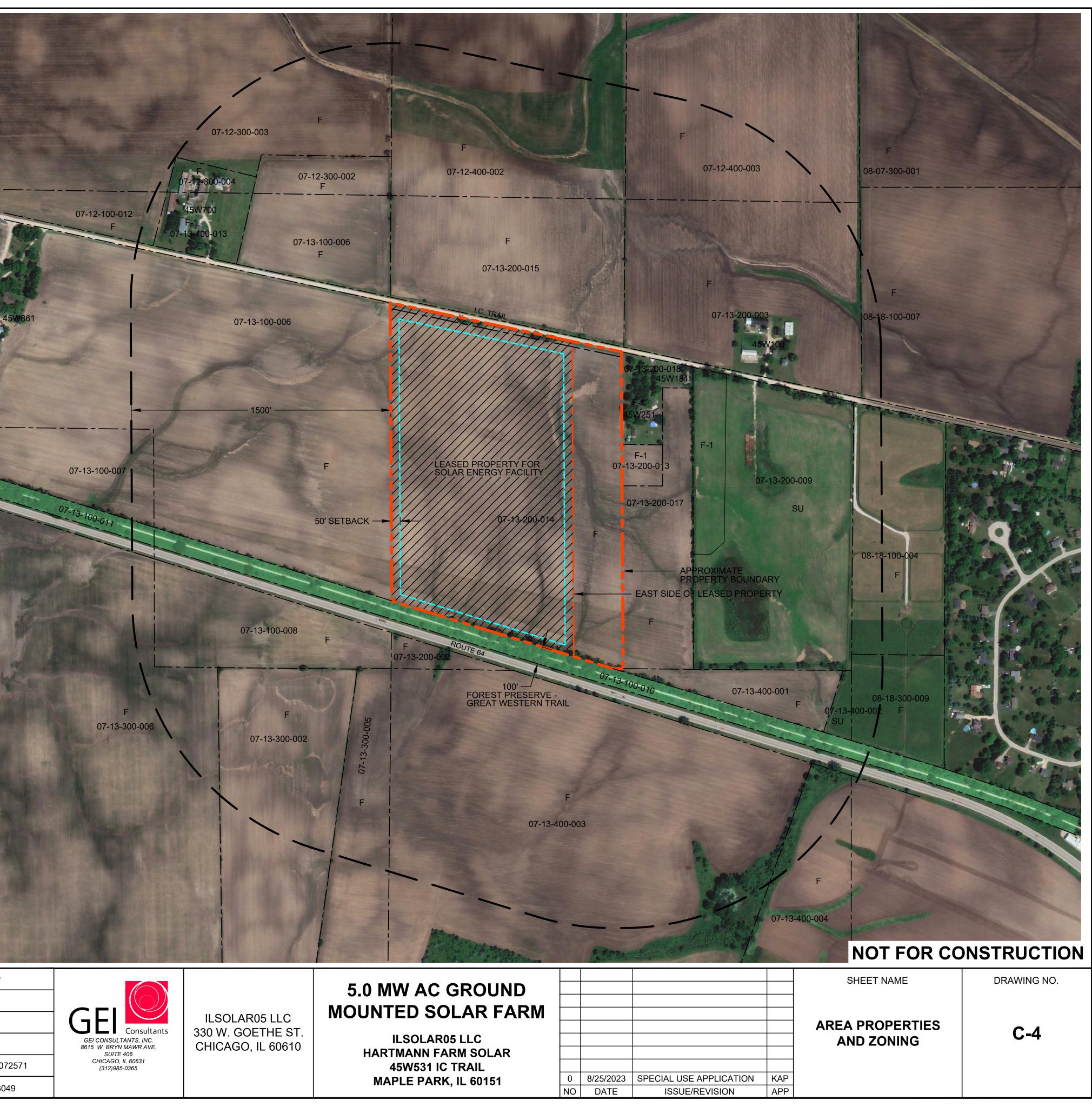
SITE PROPERTY BOUNDARY (APPROXIMATE) PROPERTY LEASED FOR SOLAR FACILITY PROPERTY BOUNDARY SETBACK, 50' ADJACENT PARCEL LINES PARCEL ID NUMBER RESIDENTIAL ADDRESS NUMBER (I.C.TRAIL) ZONING CLASSIFICATION F - FARMING, F-1 RURAL RESIDENTIAL, SU - SPECIAL USE 1500' RADIUS AROUND PROPERTY BOUNDARY



does not measure 1" then drawing is not original scale.

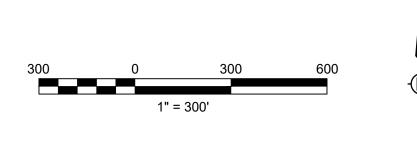
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Designed: FZW KJC Drawn: Checked: MFS Approved: KAP P.E. No: 062.072571 GEI Project 2303049



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

0	8/25/2023	SPE
NO	DATE	



LEGEND

* * * * * * * *

SITE PROPERTY BOUNDARY (APPROXIMATE) PROPERTY LEASED FOR SOLAR FACILITY PROPERTY BOUNDARY SETBACK, 50' ADJACENT PARCEL LINES SURFACE DRAINAGE CULVERT FLOODPLAIN, ZONE A (1% ANNUAL CHANCE) WETLAND NRCS FARMED WETLAND

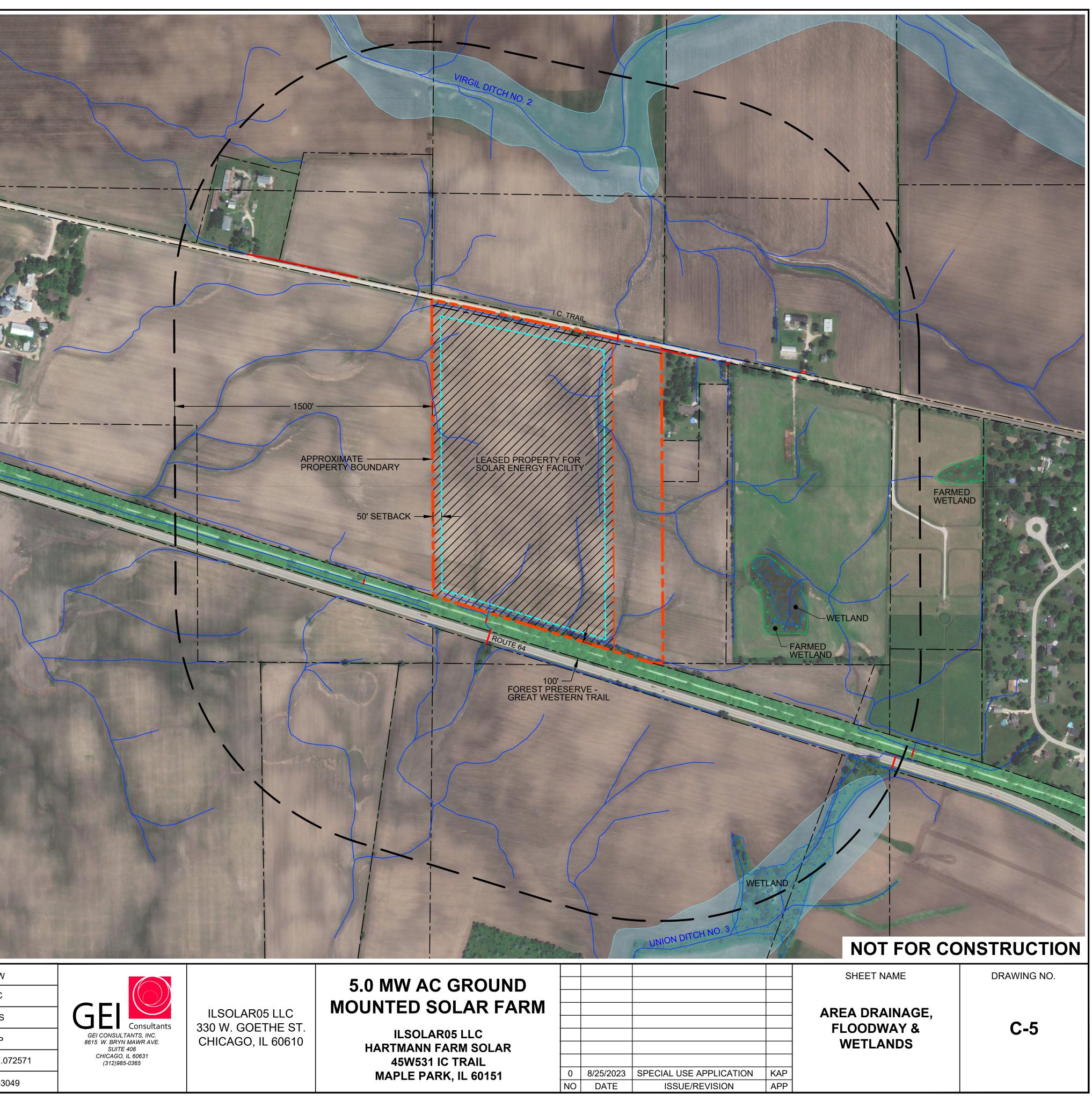
1500' RADIUS AROUND PROPERTY BOUNDARY

NOTES

- SURFACE DRAINAGE PATHWAYS, CULVERTS & WETLANDS SHOWN ARE FROM KANE COUNTY, ILLINOIS, GIS DATA https://gistech.countyofkane.org/gisims/kanemap/kanegis4_agox.html
- 2) WETLAND DATA PRODUCED UNDER THE ADVANCED IDENTIFICATION (ADID) PROGRAM OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY AND THE U.S. ARMY CORPS OF ENGINEERS. DESCRIPTIONS OF THE WETLAND INVENTORY METHODOLOGY AND THE WETLAND AND STREAM DESIGNATION CRITERIA ARE AVAILABLE IN THE KANE COUNTY ADID STUDY METHODOLOGY. THE WETLAND BOUNDARIES SHOWN ARE NOT JURISDICTIONAL BOUNDARIES.
- 3) FLOODWAYS SHOWN ARE FROM FEMA MAP NUMBER 17089C0250J, REVISED JULY 17, 2012. THE FLOODWAY AREAS SHOWN ARE SPECIAL FLOOD HAZARD AREA "ZONE A". ZONE A IS SUBJECT TO A 1% ANNUAL FLOOD CHANCE (100-YEAR FLOOD). NO BASE FLOOD ELEVATIONS DETERMINED.
- 4) DAVEY RESOURCE GROUP, INC. (DRG) CONDUCTED A WATER RESOURCE DETERMINATION FOR THE APPROXIMATELY 52-ACRE SITE. NO AREAS WITHIN THE STUDY AREA MET THE THREE CRITERIA REQUIRED TO BE CONSIDERED A WETLAND (i.e. HYDROLOGY, HYDRIC SOILS, AND HYDROPHYTIC VEGETATION). REFER TO DRG LETTER DATED JULY 10, 2023.

Attention:	
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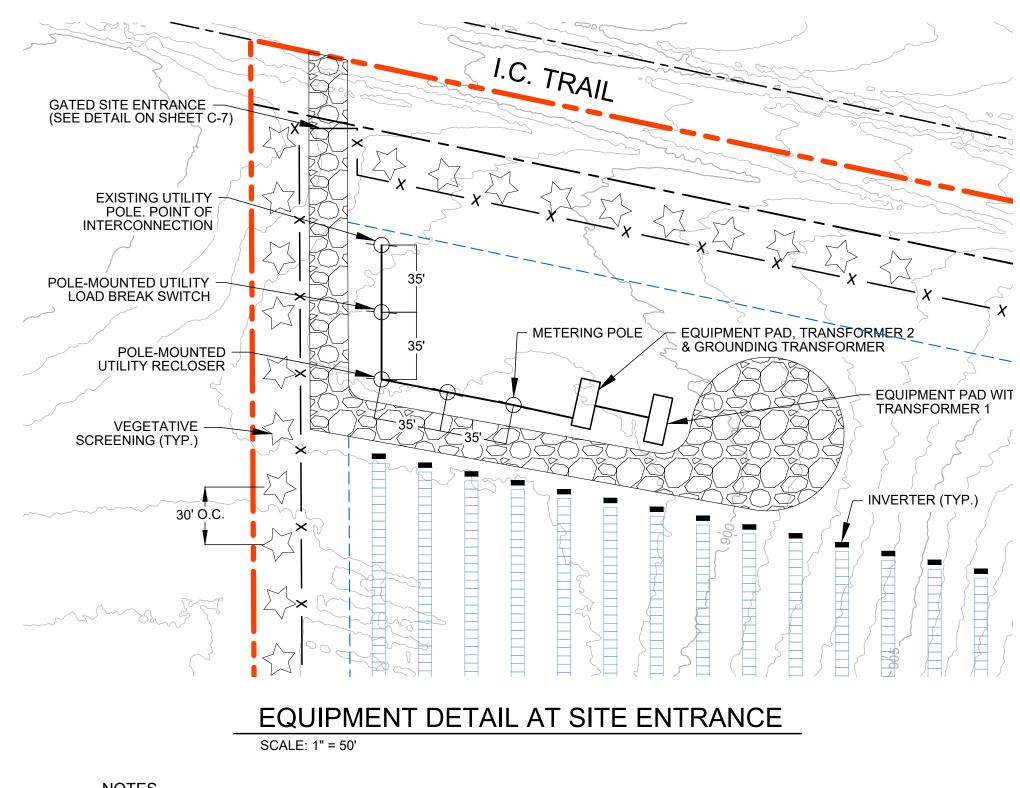
Designed:	FZW
Drawn:	KJC
Checked:	MFS
Approved:	KAP
P.E. No:	062.0
 GEI Project	23030





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NOTES

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



_____ 45W100 _____ X _____ X _____ 5

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SITE PROPERTY BOUNDARY (APPROXIMATE) PROPERTY BOUNDARY SETBACK, 50' ADJACENT PARCEL LINES PROPERTY ADDRESS GROUND SURFACE CONTOUR BUILDING PERIMETER FENCE

GRAVEL ACCESS ROAD SOLAR PANEL INVERTER POWER POLE EQUIPMENT PAD & TRANSFORMER

Attention:

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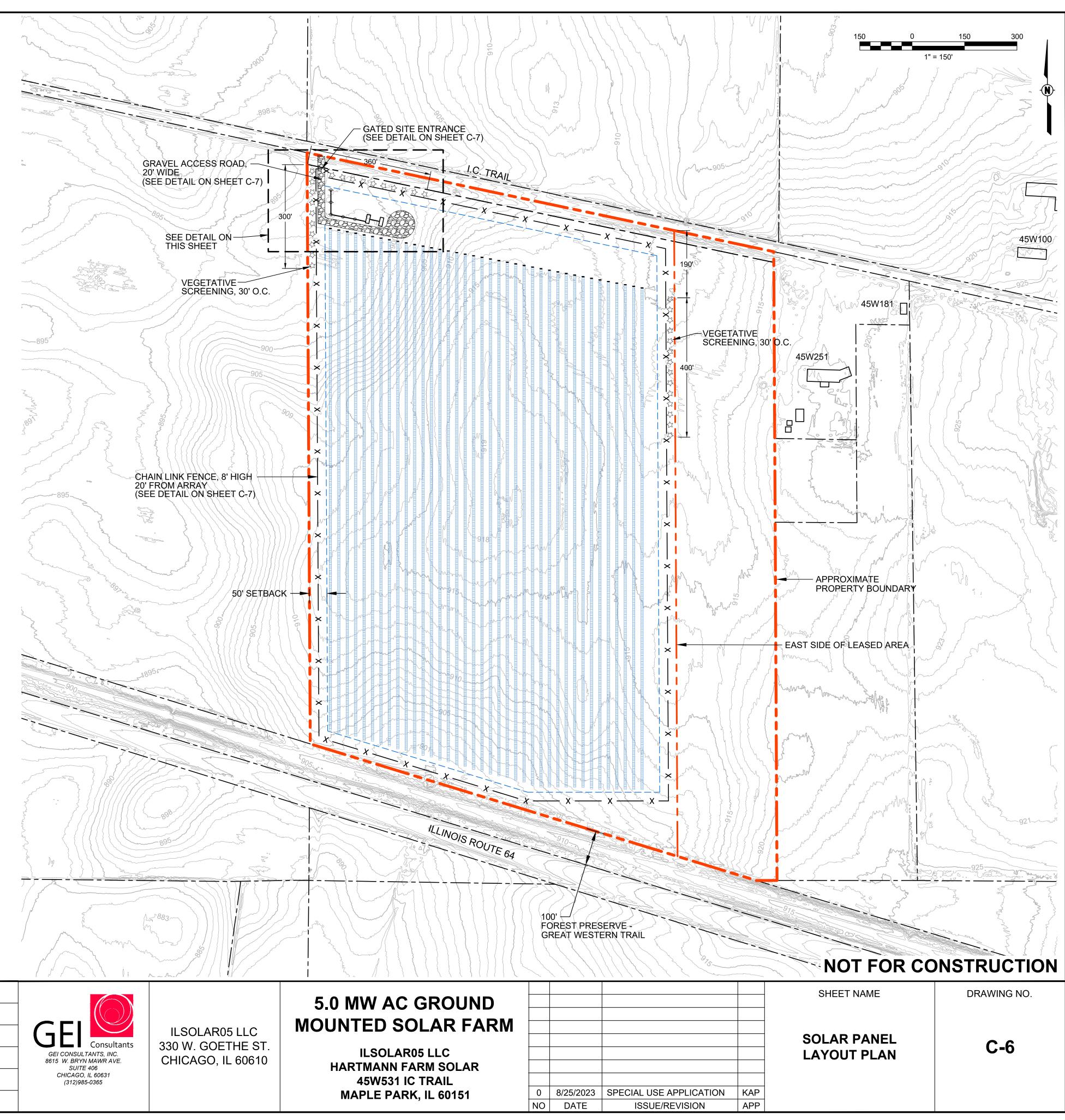
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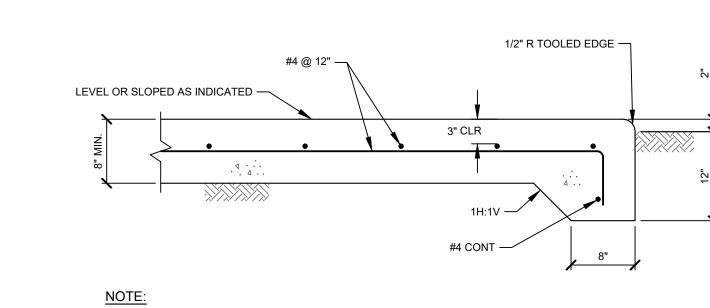
1" then drawing is not original scale.

TREE PLANTING, 30' O.C.

- 8/25/2023
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yout-Plan.dw
Solar-Panel-La
Hartmann\6
\Landfills\Horizon-Solar

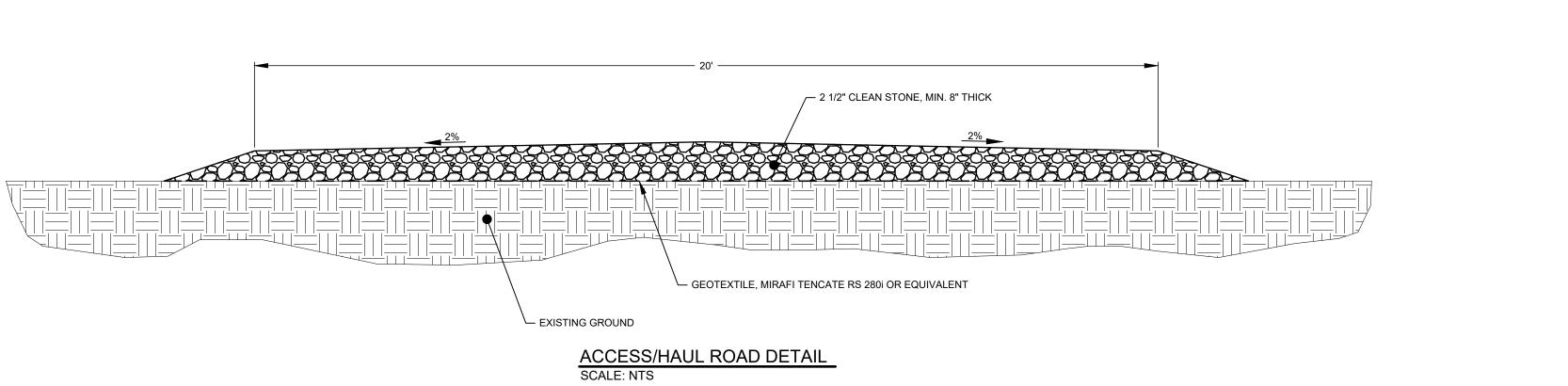
	Designed:	FZW
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	Checked:	MFS
	Approved:	KAP
	P.E. No:	062.072571
	GEI Project	2303049



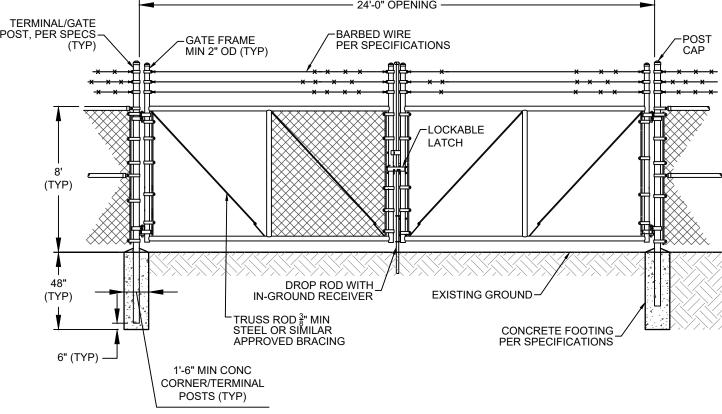


1. ELECTRICAL DESIGNER TO REVIEW SLAB ON-GRADE DESIGN FOR PAD-MOUNT EQUIPMENT AND UPDATE/REDESIGN AS NECESSARY TO SUPPORT THE APPLIED LOADS AND PROVIDE CONNECTION DETAILS BETWEEN THE EQUIPMENT AND FOUNDATIONS.

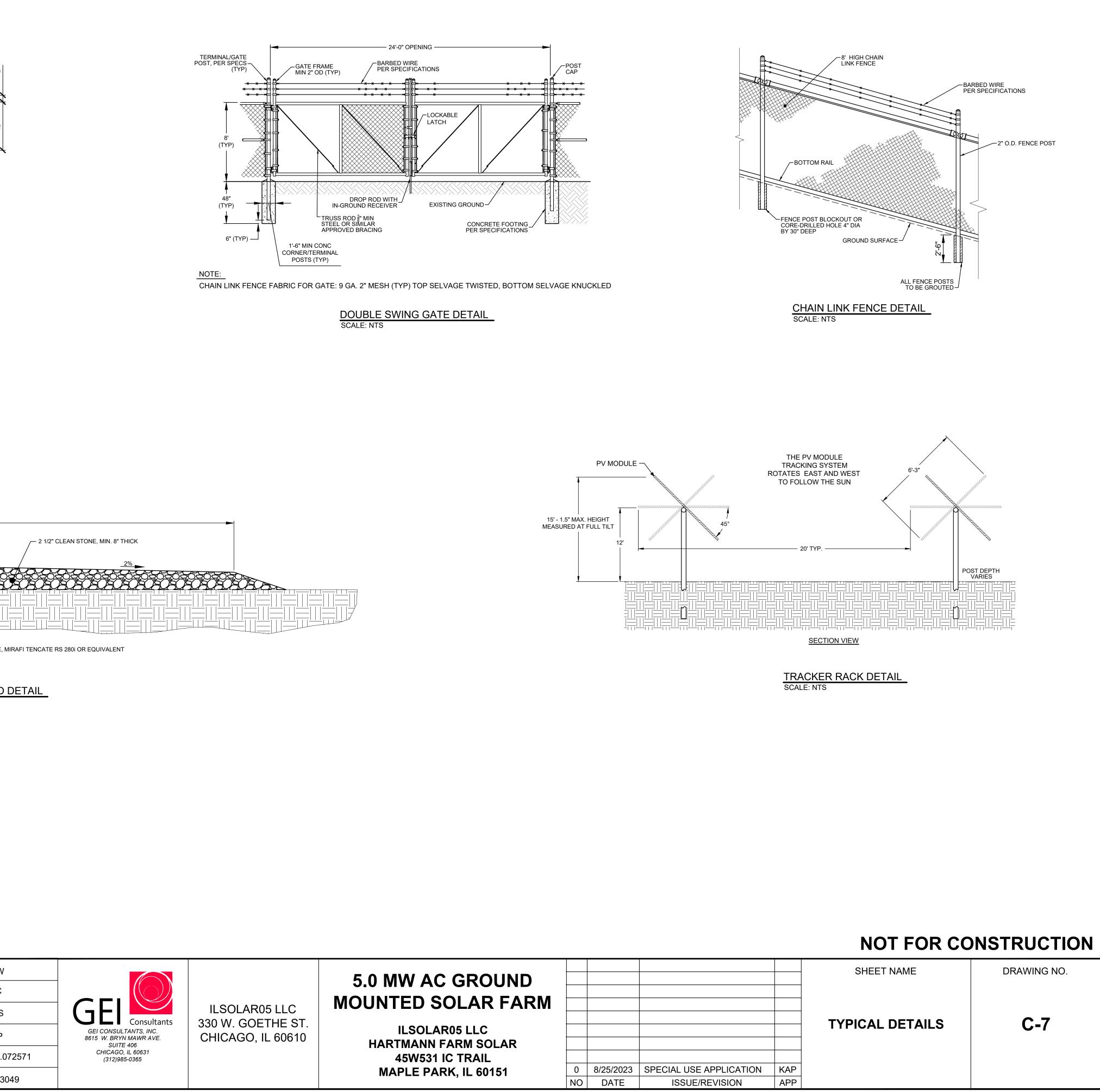
> SLAB ON-GRADE EQUIPMENT PAD DETAIL SCALE: NTS



	Designed:	FZW
Attention:	Drawn:	KJC
	Checked:	MFS
If this scale bar does not measure	Approved:	KAP
1" then drawing is not original scale.	P.E. No:	062.0
	GEI Project	23030







LANDSCAPE/PLANTING NOTES:

- 1. Contractor shall perform work in compliance with all environmental permits.
- 2. 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.
- 3. 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.
- 4. 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:

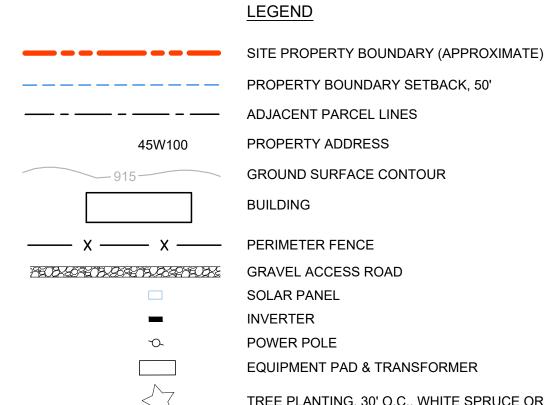
- 1. Plant installations shall take place during dry and unfrozen ground conditions during the following seasonal windows: March 1st to May 15th; or August 15th to November 1st.
- Deliver plants immediately prior to planting on site. Temporary storage of any plant materials after delivery shall not 2. 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 3. 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.
- 4. 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 5 grade in the former growing medium.
- 6. 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.
- 8. Stake trees in place as shown in the typical planting detail.
- 9. 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.
- 10. Contractor shall provide a 1-year guarantee to replace dead or stressed plant material.
- 11. All replacement plantings shall be completed no later than the next consecutive planting season. 12. 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 2. 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 3. after site preparation and fine grading.
- 4. 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. 5.
- 6. Apply jute mesh over all seeded areas that exceed a 3 ft. horizontal:1 ft. vertical slope.
- 7. 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 8. mulch during the same growing season.

ADJACENT PARCEL LINES

PROPERTY ADDRESS



GROUND SURFACE CONTOUR	
BUILDING	
PERIMETER FENCE	
GRAVEL ACCESS ROAD	
SOLAR PANEL	
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

% BY WEIGHT	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT (FT)
5.0	Agrostis perennans	Autumn Bentgrass	3.5
2.0	Eragrostis spectabilis	Purple Lovegrass	1.5
20.0	Schizachyrium scoparium	Little Bluestem	3.9
23.7	Bouteloua curtipendula	Sideoats Grama	3.2
0.5	Pestimone hirsutus	Hairy Beardtongue	2.9
2.6	Chamaecrista fasciculata	Partridge Pea	2.9
2.0	Coreopsis lanceolata	Lanceleaf Coreopsis	3.3
15.0	Gaillardia aristata	Perennial Gaillardia (Blanket Flower)	2.3
0.2Oenthera speciosa3.0Rudbeckia hirta		Showy Evening Primrose	2.0
		Blackeyed Susan	3.3
2.5	Aster prenanthoides	Zig Zag Aster	3.3
5.0	Monarda punctata	Spotted Beebalm	3.3
3.0	Anemone canadensis	Canadian Anemone	2.3
2.0	Aquilegia canadensis	Eastern Columbine	2.6
3.0	Asclepias tuberosa	Butterfly Milkweed	2.9
3.0	Aster laevis	Smooth Blue Aster	3.3
3.0	Aster oblongifolius	Aromatic Aster	3.3
0.2	Lupinus perennis	Perennial Blue Lupine	2.0
2.0	Coreopsis grandiflora	Large Leaf Tickseed	2.6
0.3	Pycnanthemum virginianum	Virginia Mountainmint	3.3
2.0	Conoclinium coelestinum	Blue Mistflower	3.3

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3 - 2"x2"x8' OAK STAKES EQUALLY -SPACED AROUND TREE

6" FROM THE TRUNK

MULCH SHALL NOT BE PLACED OVER ROOT FLARE FOR A DISTANCE OF 3" -

TREE SHALL HAVE SAME RELATION TO PLANTED GRADE AFTER

SETTLEMENT AS IT DID TO PREVIOUS GRADE IN NURSERY

SHREDDED BARK MULCH AT 3" DEPTH

SAUCER CONSTRUCTED

OF PLANTING SOIL

PLANTING SOIL

BOTTOM CENTER OF

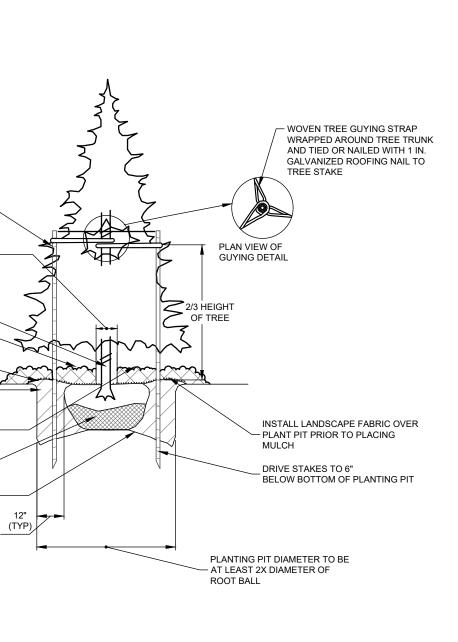
ROOT BALL TO SIT ON

REMOVE BURLAP FROM TOP 1/3 OF BALL

UNDISTURBED SOIL

SIDES OF HOLE TO 4" -DEPTH MIN

SCARIFY



REE PLANTING AND SUPPORT SCALE: NTS

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.072571	CHICAGO, IL 60631 (312)985-0365
3049	

ILSOLAR05 LLC 330 W. GOETHE ST. CHICAGO, IL 60610



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