PAPER SIZE 34" X 22" - THIS EDGE INTENTIONALLY LEFT BLANK FOR BINDING

SOLAR PV ELECTRICAL SYSTEM INSTALLATION DRAWINGS

138883 CEMETERY SUN, LLC

24638 ADAMS RD,
FREDERICK, IL 62639
40.089020°, -90.442132°

GENERAL NOTES

SCOPE OF WORK

THE INSTALLATION OF A SOLAR PHOTOVOLTAIC (PV) PLANT INCLUDING PV MODULES, GRID-INTERACTIVE INVERTERS, & FIXED TILT RACKING TO SUPPLY POWER DIRECTLY TO THE LOCAL ELECTRIC UTILITY GRID.

PROJECT LOCATION

24638 ADAMS RD,
FREDERICK, IL 62639
40.089020°, -90.442132°

INTERCONNECTION

THE PV SYSTEM WILL OPERATE IN PARALLEL WITH THE ELECTRIC UTILITY SERVICE PROVIDER. THE INVERTERS PROVIDE ANTI-ISLANDING PROTECTION AS WELL AS HARMONIC LIMITS THAT COMPLY WITH UL 1741, IEEE 1547, & IEEE 519.

OPERATION

PERMISSION TO OPERATE THE PV SYSTEM IS NOT AUTHORIZED UNTIL FINAL INSPECTIONS AND APPROVALS ARE OBTAINED FROM THE AUTHORITY HAVING JURISDICTION AND THE ELECTRIC UTILITY SERVICE PROVIDER.

CODE ENFORCED

NATIONAL ELECTRICAL CODE, 2020 EDITION

AUTHORITY HAVING JURISDICTION

COUNTY OF SCHUYLER

ELECTRIC UTILITY SERVICE PROVIDER

AMEREN ILLINOIS COMPANY

COUNTY MAP

SOURCE: GISGEOGRAPHY.COM

PROJECT DETAILS

SYSTEM SUMMARY

DC SYSTEM SIZE	5.976 MW
AC SYSTEM SIZE	4.975 MW / 4.975 MVA
DC / AC RATIO	1.201
DC VOLTAGE	1,500 V
POCC / POI VOLTAGE	34.5 KV

PV MODULES

MANUFACTURER	HELIENE
MODEL	156HC M10 NTYP SL BIFACIAL MODULE
DC POWER @ STC	640 W
MODULES PER STRING	23
TOTAL STRINGS	406
TOTAL CONNECTED MODULES	9,338
SPARE MODULES	406
TOTAL MODULES	9,744

INVERTERS / PCS

MANUFACTURER	SOLECTRIA	
MODEL	XGI 1500 250/250-600	XGI 1500 225-600
AC POWER RATING	250 KW / 250 KVA	225 KW / 225 KVA
TOTAL INVERTERS	19	1

RACKING

MANUFACTURER	APA SOLAR RACKING
MODEL / TYPE	TITAN DUO / 2HP
PITCH	29'-0"
INTER-ROW SPACING	14'-3"
GCR	50.7%
TILT	25°
AZIMUTH	180°

WEATHER STATION DATA

STATION NAME	JACKSONVILLE, IL
2% AVERAGE HIGH TEMP	33.0 °C
20-YR EXTREME HIGH TEMP	39.1 °C
EXTREME LOW TEMP	-20.5 °C

PROJECT TEAM

SOLAR SYSTEM OWNER

CEMETERY SUN, LLC
NEXAMP
101 SUMMER STREET, 2ND FLOOR
BOSTON, MA 02110

DESIGN COORDINATOR

KNOBELSDORFF
25701 370TH STREET
GOODHUE, MN 55027

CONTRACTOR

TBD

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ELECTRICAL ENGINEER

STELLAVISE INC. - IL DESIGN FIRM #184.009162
BRICE CASEBEER, PE - LICENSE #: 062-070349
2535 CAMINO DEL RIO S, SUITE 235
SAN DIEGO, CA 92108

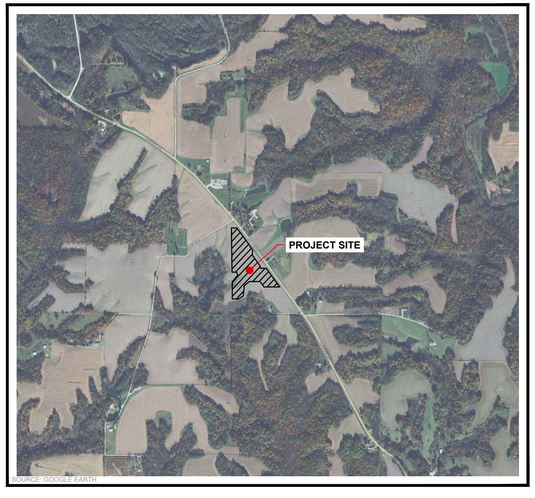
CIVIL ENGINEER

KIMLEY-HORN & ASSOCIATES, INC.
570 LAKE COOK ROAD, SUITE 200
DEERFIELD, IL 60015

RACKING MANUFACTURER

APA SOLAR RACKING
20-345 COUNTY ROAD X
RIDGEVILLE CORNERS, OH 43555

VICINITY MAP



SOURCE: GOOGLE EARTH

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DESIGN COORDINATOR

KNOBELSDORFF
25701 370TH STREET
GOODHUE, MN 55027

PROJECT

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ENGINEER

STELLAVISE
SOLAR ENGINEERING
2535 CAMINO DEL RIO S, STE. 235
SAN DIEGO, CA 92108
IL DESIGN FIRM #184.009162
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SEAL

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REVISIONS

#	DESCRIPTION	DATE
0	IFC	02/06/2026
1	IFC R1	02/27/2026

ISSUED FOR CONSTRUCTION
FEBRUARY 27, 2026

138883 CEMETERY SUN, LLC
FREDERICK, IL, 62639

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SHEET TITLE

COVER SHEET

SHEET NO.

E-001