

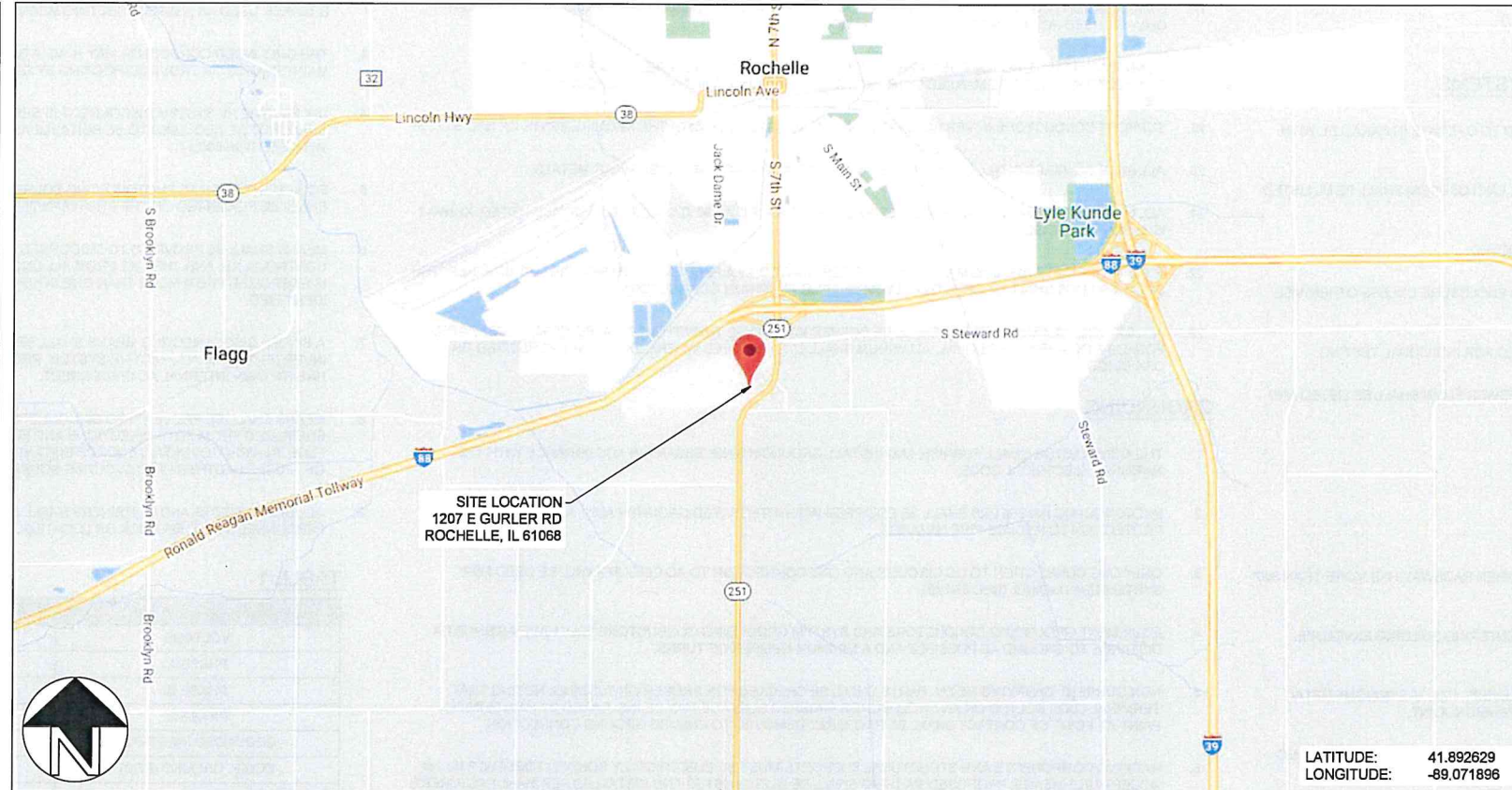
# CHICAGOLAND SKYDIVING CENTER

## ROOFTOP PV SYSTEM - ISSUED FOR CONSTRUCTION DRAWINGS

### DRAWING INDEX

E0.0 - COVER PAGE  
E0.1 - GENERAL NOTES  
E1.0 - OVERALL SITE PLAN  
E1.1 - ELECTRICAL SITE PLAN  
E1.2 - ARRAY LAYOUT  
E1.3 - MODULE STRINGING LAYOUT  
E2.0 - LINE DIAGRAM - SYSTEM 1  
E2.1 - LINE DIAGRAM - SYSTEM 2  
E2.2 - LINE DIAGRAM - SYSTEM 3  
E2.3 - INVERTER SUMMARY  
E2.4 - CONDUCTOR/CONDUIT SCHEDULE & DC STRING SUMMARY  
E3.0 - TYPICAL EQUIPMENT ELEVATIONS/PLANVIEWS  
E5.0 - LABELING  
E7.0 - EQUIPMENT SPEC SHEETS

David C. Hernandez Digitally signed by David C. Hernandez  
Date: 2022.08.10 07:20:39 -04:00



### PROJECT NOTES:

1. CONSULT VERDE SOLUTIONS LLC BEFORE DEVIATING FROM THIS DRAWING PACKAGE.

### APPLICABLE CODES

NATIONAL ELECTRICAL CODE - NFPA 70 2017 (NEC)  
STANDARD FOR ELECTRICAL SAFETY IN THE WORKFORCE - NFPA 70E 2015  
INTERNATIONAL ELECTRICAL TESTING ASSOCIATION - ANSI/NETA STANDARD  
UL 1703 - SOLAR MODULES  
UL 1741 - INVERTERS, COMBINER BOXES (UL1741SA WHERE APPLICABLE)  
UL 2703 - RACKING RAILS, MOUNTS AND CLAMPS FOR PV MODULES

### FOR OFFICIAL USE ONLY:

### COMMERCIAL CONSTRUCTION DESIGN PARAMETERS

|                   |                   |
|-------------------|-------------------|
| HIGH TEMPERATURE: | 84.4°F (29.1°C)   |
| LOW TEMPERATURE:  | -47.2°F (-44.0°C) |
|                   |                   |
|                   |                   |
|                   |                   |
|                   |                   |
|                   |                   |
|                   |                   |
|                   |                   |
|                   |                   |
|                   |                   |

### CLIENT INFORMATION

|                |                              |
|----------------|------------------------------|
| CLIENT         | VERDE SOLUTIONS LLC          |
| CLIENT ADDRESS | 2211 NORTH ELSTON, SUITE 208 |
| MUNICIPALITY   | CHICAGO, IL 60614, USA       |
| PHONE          | +1 800-541-1137              |
| EMAIL          | -                            |

### SYSTEM CHARACTERISTICS

|                 |        |
|-----------------|--------|
| DC SIZE (KW DC) | 183.36 |
| AC SIZE (KW AC) | 150.00 |
| DC/AC RATIO     | 1.22   |

### MODULE INFORMATION

|                           |                         |
|---------------------------|-------------------------|
| MANUFACTURER              | HANWHA                  |
| MODEL NUMBER(S)           | Q.PEAK DUO XL-G10.3 480 |
| PMAX @ STC (W)            | 480                     |
| ISC (A)                   | 11.12                   |
| IMP (A)                   | 10.59                   |
| VOC (V)                   | 53.39                   |
| VMP (V)                   | 45.33                   |
| TEMP COEFF OF VOC (%/°C)  | -0.27                   |
| TEMP COEFF OF PMAX (%/°C) | -0.34                   |
| VOC @ MIN TEMP.           | 63.34                   |
| VMP @ MAX TEMP.           | 40.07                   |
| NUMBER OF MODULES         | 382                     |

### INVERTER INFORMATION

|                                   |                        |
|-----------------------------------|------------------------|
| MANUFACTURER                      | CHINT                  |
| MODEL NUMBER(S)                   | CPS SCA25KTL-DO/US-208 |
| MAXIMUM DC INPUT VOLTAGE (V)      | 1000                   |
| MAXIMUM DC INPUT POWER (W)        | 45000                  |
| NOMINAL AC OUTPUT VOLTAGE (V)     | 208                    |
| MPPT OPERATING VOLTAGE RANGE (V)  | 200 - 950              |
| NOMINAL AC POWER (W)              | 25000                  |
| MAX CONTINUOUS OUTPUT CURRENT (A) | 69.5                   |
| NUMBER OF INVERTERS               | 6                      |

### MLPE INFORMATION

|                            |           |
|----------------------------|-----------|
| MANUFACTURER               | APSmart   |
| MODEL NUMBER(S)            | RSD-S-PLC |
| MODULES PER MLPE           | 1         |
| MAXIMUM SYSTEM VOLTAGE (V) | 1500      |
| RATED DC INPUT POWER (W)   | N/A       |
| MAX VOLTAGE PER INPUT (V)  | 80        |
| RSD INTEGRATED?            | Yes       |
| NUMBER OF MLPES            | 382       |



PROJECT TITLE  
CHICAGOLAND SKYDIVING CENTER  
PROJECT ADDRESS  
1207 E GURLER RD  
ROCHELLE, IL 61068  
SHEET TITLE  
COVER PAGE

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CP

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DATE  
28-Jul-2022

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| DATE        | REV. | A | B | C | D | E |
|-------------|------|---|---|---|---|---|
| 05-JUL-2022 | A    |   |   |   |   |   |
| 12-JUL-2022 | B    |   |   |   |   |   |
| 28-JUL-2022 | C    |   |   |   |   |   |

SHEET SIZE  
36X24 SHOULD MEASURE 1".

SCALE  
NTS

SHEET TITLE

E0.0





APPLICABLE CODES AND STANDARDS

1. ADOPTED NEC VERSION: 2017
2. NATIONAL ELECTRICAL CODE - NFPA 70 2017 (NEC)
3. STANDARD FOR ELECTRICAL SAFETY IN THE WORKFORCE - NFPA 70E 2015
4. INTERNATIONAL ELECTRICAL TESTING ASSOCIATION - ANSI/NETA STANDARD
5. UL 1703 - SOLAR MODULES
6. UL 1741 - INVERTERS, COMBINER BOXES (UL1741SA WHERE APPLICABLE)
7. UL 2703 - RACKING RAILS, MOUNTS AND CLAMPS FOR PV MODULES

ELECTRICAL NOTES SPECIFIC TO PHOTOVOLTAIC SYSTEMS

1. UNLESS SPECIFIED OTHERWISE THIS SOLAR PV SYSTEM IS CONNECTED TO OPERATE IN PARALLEL WITH UTILITY ELECTRICAL SERVICE.
2. ALL EQUIPMENT (INCLUDING PV INVERTERS, COMBINERS, PULL BOXES, ENCLOSURES) SHALL BE UL LISTED FOR ITS PURPOSE.
3. INVERTERS TO BE INSTALLED AT 90° (VERTICAL) UNLESS OTHERWISE NOTED.
4. CONDUITS AND CABLES SHALL NOT ENTER THE TOP OF ANY OUTDOOR ENCLOSURE UNLESS OTHERWISE NOTED OR REVIEWED AND APPROVED BY PROJECT ENGINEER.
5. ALL SOURCE CIRCUITS MUST BE PROTECTED AND ABLE TO BE ISOLATED FOR INDIVIDUAL TESTING.
6. ALL CIRCUIT BREAKERS INSTALLED THAT ARE SUBJECT TO REVERSE POWER FLOW SHALL BE LISTED AND LABELED AS BACKFEED COMPATIBLE.

WIRING AND WIRING METHODS

CONDUITS AND RACEWAYS

1. HAND HOLE, PULL BOXES, OR CONDUIT BODIES SHALL BE INSTALLED WHEN RACEWAY HAS MORE THAN 360° OF WIRE BENDS. (NEC 358.26)
2. RMC TO BE USED WHEN CONDUIT IS EXPOSED TO DAMAGE OR WHEN ENTERING BUILDING ENVELOPE. CONDUIT INTERIOR TO BE SEALED TO PREVENT MOISTURE.
3. EXPANSION FITTING (WITH BONDING JUMPERS) TO BE INSTALLED FOR EVERY 100' OF STRAIGHT METAL CONDUIT RUN AND WHERE CONDUIT RUN PASSES OVER EXISTING EXPANSION JOINT.
4. EMT ACCEPTABLE AS RACEWAY WHERE NOT EXPOSED TO PHYSICAL DAMAGE. OTHERWISE IMC OR RMC SHALL BE USED.
5. USE MYERS (OR APPROVED EQUIVALENT) HUB LISTED TO PROVIDE MOISTURE PROTECTION FOR CONDUIT ENTRANCES IN ALL APPLICABLE LOCATIONS AS REQUIRED BY NEC 314.15.
6. LIQUID TIGHT FLEXIBLE METAL CONDUIT IS GENERALLY SUITABLE FOR INSTALLATION IN WET AND DRY LOCATIONS. SHOULD IT BE EMPLOYED, SUPPORTS WILL BE NO MORE 12 INCHES FROM BOXES (JUNCTION BOX, CABINETS, OR CONDUIT FITTING) AND NO MORE THAN 36 INCHES APART (NEC 350.30).
7. FURNISH AND INSTALL ALL FITTINGS AND SPECIAL DEVICES NECESSARY FOR THE PROPER INSTALLATION, CONNECTION AND OPERATION OF THE SYSTEM. CONDUIT ELBOWS SHALL BE OF THE SAME MAKE, QUALITY AND FINISH AS THE CONDUIT USED.
8. SUPPORT AND SECURELY FASTEN EMT CONDUIT EVERY 10', NO MORE THAN 3' FROM OUTLET OR JUNCTION BOX, TERMINATION ETC (NEC 358.30)
9. CONDUITS LONGER THAN 200' WITH NEGATIVE SLOPE TOWARD ELECTRICAL EQUIPMENT SHALL HAVE A PULL BOX OR VAULT ADJACENT TO THE ENTRY POINT INTO THE ELECTRICAL EQUIPMENT.
10. 15" WIDE OR LESS BUCKET TO BE USED FOR TRENCHING. RESTORE GROUND TO MATCH EXISTING CONDITIONS.

CONDUCTORS AND CONDUCTOR INSTALLATION

11. SEE TABLE 1 FOR CONDUCTOR COLOR CODING.
12. EXPOSED PV SOLAR MODULE WIRING WILL BE PV WIRE, 90°C, WET RATED AND UV RESISTANT - NO EXCEPTIONS. STRING WIRING AND HOMERUNS SHALL BE SECURED TO UNDERSIDE OF RACKING AND MODULES USING ZIP TIES OUTDOOR RATED FOR UV (HELLERMAN TYTON PA66UV OR EQUAL)
13. MODULE TO SOURCE CIRCUIT CONNECTORS MUST BE OF THE SAME MAKE AND MODEL AS THE MODULE TO MODULE CONNECTORS. CONNECTORS MUST BE MC-4.
14. PV STRING HOME RUNS SHALL BE LABELED ON BOTH ENDS, AT ARRAY AND INVERTERS. INVERTER OUTPUT CONDUCTORS SHALL BE LABELED AT BOTH ENDS, AT INVERTER AND PANELBOARD. LABELS SHALL MATCH DESIGNATIONS IN THESE DRAWINGS.

15. THE PHOTOVOLTAIC SOURCE CIRCUITS AND PHOTOVOLTAIC OUTPUT CIRCUITS OF THIS PROPOSED SOLAR SYSTEM SHALL NOT BE CONTAINED IN THE SAME RACEWAY, CABLE TRAY, CABLE, OUTLET BOX, JUNCTION BOX, OR SIMILAR FITTING AS FEEDERS OR BRANCH CIRCUITS OF OTHER SYSTEMS UNLESS THE CONDUCTORS OF THE DIFFERENT SYSTEMS ARE SEPARATED BY A PARTITION OR ARE CONNECTED TOGETHER.
16. NOALOX TO BE USED WITH ALL ALUMINUM LUGS.
17. COMPRESSION LUGS SHALL BE USED ON ALL ALUMINUM CABLE TERMINATIONS. MECHANICAL LUGS MAY ONLY BE USED FOR COPPER CABLE TERMINATIONS
18. CONNECTION SHALL BE TORQUED PER DEVICE LISTING, OR MANUFACTURES RECOMMENDATIONS. CONNECTORS ARE TO BE MARKED WITH PERMANENT MARKING PAINT, AFTER TORQUING.
19. SUPPORT CONDUCTORS IN VERTICAL CONDUITS IN ACCORDANCE WITH THE REQUIREMENTS OF NEC 300.19.
20. ALL BARE CU WIRES SHALL BE INSTALLED AWAY FROM CONTACT WITH DISSIMILAR METALS.
21. ALL LOW VOLTAGE AC WIRING SHALL BE TYPE THWN-2 RATED AT 90°C UNLESS OTHERWISE NOTED. XHHW-2 IS ALSO ACCEPTABLE.
22. IF PLANS INDICATE ALUMINUM CONDUCTORS TERMINATED AT A FEEDER OR BRANCH CIRCUIT BREAKER, THE BREAKER LUGS SHALL BE SPECIFICALLY RATED FOR ALUMINUM CONDUCTORS.
23. ALL 600 VOLT CLASS AC WIRING SHALL BE COPPER WIRE, TYPE THHN/THWN-2 RATED AT 90°C, AND RATED FOR 600V, OR APPROVED EQUAL. ALUMINUM SHALL ONLY BE USED WHERE EXPRESSLY PERMITTED ON DRAWINGS.

GROUNDING

1. THE CONTRACTOR SHALL FURNISH AND INSTALL GROUNDING NECESSARY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
2. PHOTOVOLTAIC INVERTERS SHALL BE EQUIPPED WITH INTEGRATED GROUND FAULT AND ARC FAULT PROTECTION TO REDUCE FIRE HAZARDS.
3. ONLY ONE CONNECTION TO DC CIRCUITS AND ONE CONNECTION TO AC CIRCUITS WILL BE USED FOR SYSTEM GROUNDING. (NEC 690.42)
4. EQUIPMENT GROUNDING CONDUCTORS AND SYSTEM GROUNDING CONDUCTORS WILL HAVE AS SHORT A DISTANCE TO GROUND AS POSSIBLE AND A MINIMUM NUMBER OF TURNS.
5. NON-CURRENT CARRYING METAL PARTS SHALL BE CHECKED FOR PROPER GROUNDING; NOTING THAT TERMINAL LUGS BOLTED ON AN ENCLOSURE'S FINISHED SURFACE MAY BE INSULATED BY PAINT/FINISH. PAINT AT POINT OF CONTACT SHALL BE PROPERLY REMOVED TO ENSURE GROUND CONNECTION.
6. RACKING COMPONENTS AND STRUCTURAL SUPPORTS MUST BE ELECTRICALLY BONDED TOGETHER BY AN ACCEPTABLE MEANS. PROPOSED RACKING SHALL BE UL2703 LISTED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
7. MODULES SHALL BE GROUNDED WITH EQUIPMENT GROUNDING CONDUCTORS BONDED TO A LOCATION APPROVED BY THE MANUFACTURER WITH A MEANS OF BONDING LISTED FOR THIS PURPOSE.
8. GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, INCLUDING BUT NOT LIMITED TO GROUND RODS, GROUNDING LUGS, GROUNDING CLAMPS, ETC.
9. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE COPPER, UNLESS OTHERWISE NOTED.

GENERAL EQUIPMENT/ENCLOSURES

1. EQUIPMENT AND COMPONENTS SHALL BE LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING LABORATORY (NRTL) SUCH AS UL OR ETL, WHERE SUCH LISTING IS AVAILABLE FOR THE APPLICATION
2. PROVIDE DANGER WARNING, AND CAUTION LABELS AS REQUIRED BY NESC, NEC OR OSHA STANDARDS ON EQUIPMENT ENCLOSURES, DOORS, ACCESS PLATES AND BARRIERS.
3. ALL OUTDOOR ENCLOSURES SHALL BE NEMA 3R, 4 OR 4X. ALL INDOOR ENCLOSURES SHALL BE NEMA 1.
4. ALL OUTDOOR ENCLOSURES REQUIRE AN APPROVED MEANS OF DRAINAGE AND VENTILATION. ALL NEMA 4R SHALL BE EQUIPPED WITH LISTED DRAIN PLUGS. ALL NEMA 3R SHALL BE EQUIPPED WITH A WEEP HOLE OR A LISTED DRAIN PLUG.
5. CONDUIT TERMINATING IN OUTDOOR ENCLOSURES SHALL USE MYERS-TYPE HUBS WITH GROUND SCREW. UTILIZE RAIN-TIGHT FITTINGS FOR ALL CABLE ENTRIES.
6. DOORS PROVIDING ACCESS TO PARTS NORMALLY ENERGIZED AT OVER 600V SHALL BE PADLOCKABLE CLOSED. REMOVABLE PANELS PROVIDING ACCESS TO PARTS NORMALLY ENERGIZED AT OVER 600V SHALL REQUIRE TOOLS FOR REMOVAL OR BE PADLOCKABLE CLOSED.
7. WHERE REQUIRED, EQUIPMENT SHALL BE ANCHORED TO CONCRETE PADS OR FOUNDATIONS PER MANUFACTURER'S INSTRUCTIONS USING GALVANIZED STEEL ANCHOR BOLTS EMBEDDED IN PAD OR WITH 6 INCH DEEP EPOXY ANCHOR BOLTS.
8. CAULK ALONG BOTTOM PERIMETER OF EQUIPMENT MOUNTED ON CONCRETE PADS, OR TOP AND SIDE PERIMETERS OF WALL-MOUNTED EQUIPMENT, TO PREVENT WATER ENTRY BETWEEN ENCLOSURE AND MOUNTING SURFACE.
9. INSTALL BOLLARDS AS REQUIRED.

DISCONNECTING MEANS

1. MEANS SHALL BE PROVIDED TO DISCONNECT ALL CURRENT CARRYING CONDUCTORS OF THE PHOTOVOLTAIC POWER SOURCE FROM ALL OTHER EXISTING CONDUCTORS.
2. WHERE A CIRCUIT GROUNDING CONNECTION IS NOT DESIGNED TO BE AUTOMATICALLY INTERRUPTED AS PART OF THE GROUND-FAULT PROTECTION SYSTEM REQUIRED BY SECTION 690.5, A SWITCH OR CIRCUIT BREAKER USED AS A DISCONNECTING MEANS SHALL NOT HAVE A POLE IN THE GROUNDED CONDUCTOR.
3. THE GROUNDED CONDUCTOR MAY HAVE A BOLTED OR TERMINAL DISCONNECTING MEANS TO ALLOW MAINTENANCE OR TROUBLESHOOTING BY QUALIFIED PERSONNEL.
4. UNLESS THE PV SYSTEM DISCONNECT IS SERVICING A SUPPLY-SIDE TAP, THE DISCONNECTING MEANS SHALL NOT BE REQUIRED TO BE SUITABLE AS SERVICE EQUIPMENT AND SHALL BE RATED IN ACCORDANCE WITH SECTION 690.17.
5. EQUIPMENT SUCH AS PHOTOVOLTAIC SOURCE CIRCUITS, OVER CURRENT DEVICES, AND BLOCKING DIODES SHALL BE PERMITTED ON THE PHOTOVOLTAIC SIDE OF THE PHOTOVOLTAIC DISCONNECTING MEANS.
6. MEANS SHALL BE PROVIDED TO DISCONNECT EQUIPMENT SUCH AS INVERTERS, BATTERIES, CHARGE CONTROLLERS, AND THE LIKE FROM ALL UNGROUNDED CONDUCTORS OF ALL SOURCES. IF THE EQUIPMENT IS ENERGIZED FROM MORE THAN ONE SOURCE, THE DISCONNECTING MEANS SHALL BE GROUPED AND IDENTIFIED.
7. A SINGLE DISCONNECTING MEANS SHALL BE PERMITTED FOR THE COMBINED A.C. OUTPUT OF ONE OR MORE INVERTERS IN AN INTERACTIVE SYSTEM, PROVIDED EACH INVERTER ASSOCIATED WITH THE DISCONNECT HAS ITS OWN INTERNAL AC DISCONNECT.
8. MEANS SHALL BE PROVIDED TO DISCONNECT A FUSE FROM ALL SOURCES OF SUPPLY IF THE FUSE IS ENERGIZED FROM BOTH DIRECTIONS AND IS ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS. SUCH A FUSE IN A PHOTOVOLTAIC SOURCE CIRCUIT SHALL BE CAPABLE OF BEING DISCONNECTED INDEPENDENTLY OF FUSES IN OTHER PHOTOVOLTAIC SOURCE CIRCUITS.
9. ALL DISCONNECTS AND COMBINERS SHALL BE SECURED FROM UNAUTHORIZED AND UNQUALIFIED PERSONNEL BY EITHER LOCK OR LOCATION.

TABLE 1

| AC CONDUCTORS                       |   |   |
|-------------------------------------|---|---|
| VOLTAGE                             | 480Y/277V   | 208Y/120V   |
| PHASE A                             | BROWN   | BLACK   |
| PHASE B                             | ORANGE  | RED   |
| PHASE C                             | YELLOW  | BLUE  |
| GROUNDED (NEUTRAL)                  | GREY  | WHITE   |
| EQUIP. GROUND (EGC)                 | GREEN   |   |
| GROUNDING ELECTRODE CONDUCTOR (GEC) | GREEN W/ ORANGE   |   |
| DC CONDUCTORS                       |   |   |
| UNGROUND SOURCE CIRCUIT             | (+) FROM MODULE PERMANENTLY DYED BLACK WITH RED STRIPE. WHITE NOT PERMITTED | (-) FROM MODULE PERMANENTLY DYED BLACK. WHITE NOT PERMITTED |
| EQUIPMENT GROUND (EGC)              | GREEN OR BARE   |   |



PROJECT TITLE  
CHICAGO AND SKYDIVING CENTER

PROJECT ADDRESS  
1207 E GURLER RD  
ROCHELLE, IL 61068

SHEET TITLE  
GENERAL NOTES

DRAWN BY  
CP

CHECKED BY  
ST

DATE  
28-Jul-2022

DRAWING LEVEL  
ISSUED FOR CONSTRUCTION

| DRAWING LEVEL           | DATE        | REV. |
|-------------------------|-------------|------|
| ISSUED FOR CONSTRUCTION | 05-JUL-2022 | A    |
| ISSUED FOR CONSTRUCTION | 12-JUL-2022 | B    |
| ISSUED FOR CONSTRUCTION | 26-JUL-2022 | C    |
|                         |             | D    |
|                         |             | E    |

SHEET SIZE  
36X24 SHOULD MEASURE 1":

SCALE  
NTS

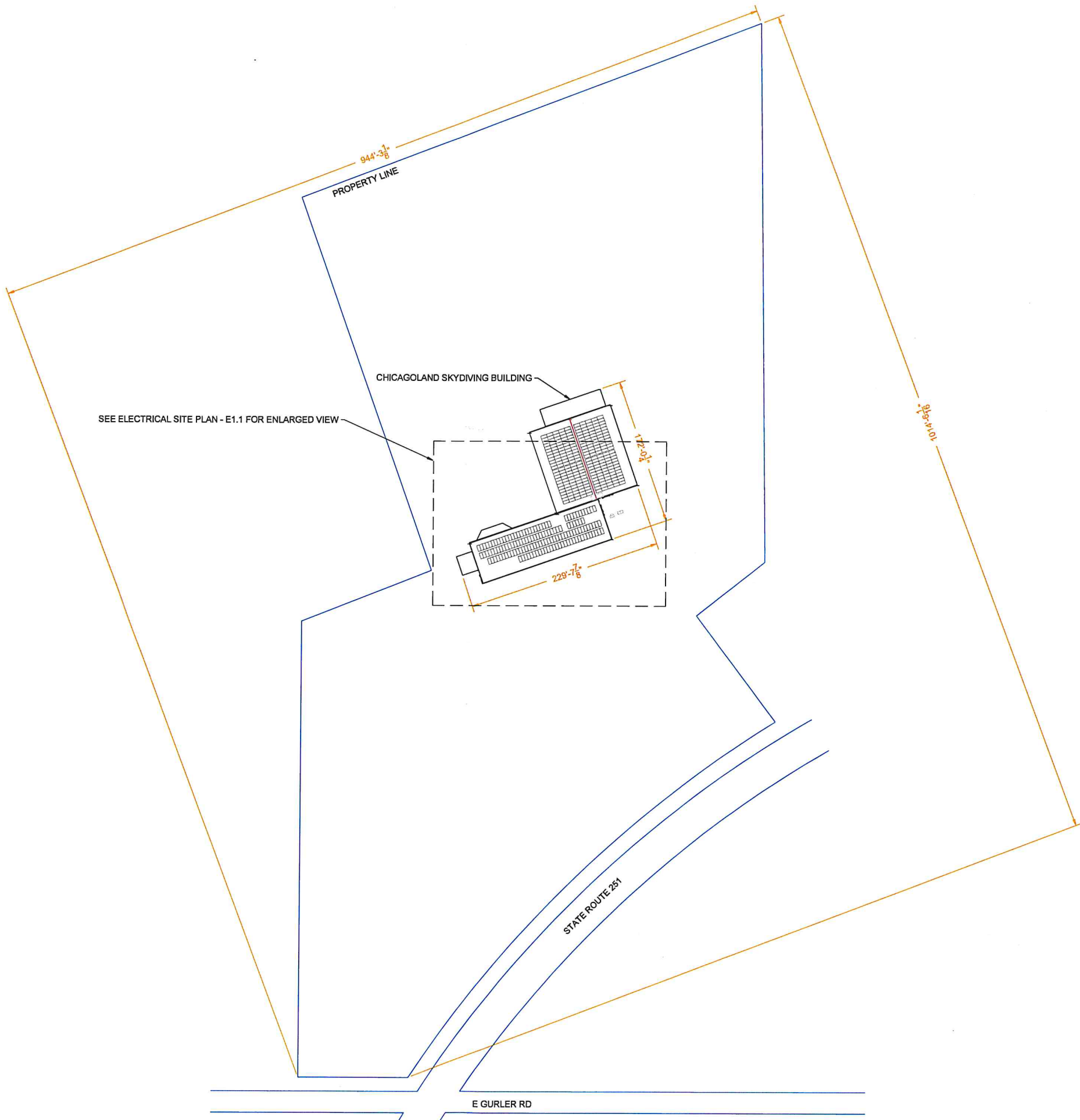
SHEET TITLE

E0.1





- NOTES:
1. ALL DIMENSIONS TO BE FIELD VERIFIED. LOCATIONS SHOWN ARE APPROXIMATE.
  2. ALL PV ELECTRICAL EQUIPMENT TO BE INSTALLED AS PER INSTALLATION MANUALS AND NEC REQUIREMENTS.
  3. CONDUIT AND RACEWAYS SHALL NOT INTERFERE WITH FIRE ACCESS WALKWAYS.
  4. EXACT LOCATION AND SPACING OF PHOTOVOLTAIC MODULES TO BE ESTABLISHED ACCORDING TO THE FINAL CONFIGURATION DETERMINED BY INSTALLER AND RACKING MANUFACTURER
  5. PROPERTY LINE DETERMINED FROM PUBLICLY AVAILABLE GIS DATA.
  6. THIS DRAWING PROVIDES AN OVERVIEW ONLY AND AS SUCH SHOULD NOT BE RELIED ON FOR EXACT DIMENSIONS.
  7. MODULE LAYOUT IS SUBJECT TO CHANGE BASED ON AVAILABLE STRUCTURAL CAPACITY AND POWER GRID AVAILABILITY.
  8. ROOF AND MODULE LAYOUTS ARE BASED ON INFORMATION COLLECTED DURING THE SITE SURVEY. ROOF ALTERATIONS MADE AFTER THE SURVEY DATA WILL NOT BE REFLECTED IN THIS DRAWING.
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  10. TREES DO NOT SHADE ANY ROOF UNLESS TREE HEIGHT IS SPECIFIED.



PROJECT TITLE  
CHICAGOLAND SKYDIVING CENTER  
PROJECT ADDRESS  
1207 E GURLER RD  
ROCHELLE, IL 61068  
SHEET TITLE  
OVERALL SITE PLAN

DRAWN BY  
CP

CHECKED BY  
ST

DATE  
28-Jul-2022

DRAWING LEVEL  
ISSUED FOR CONSTRUCTION

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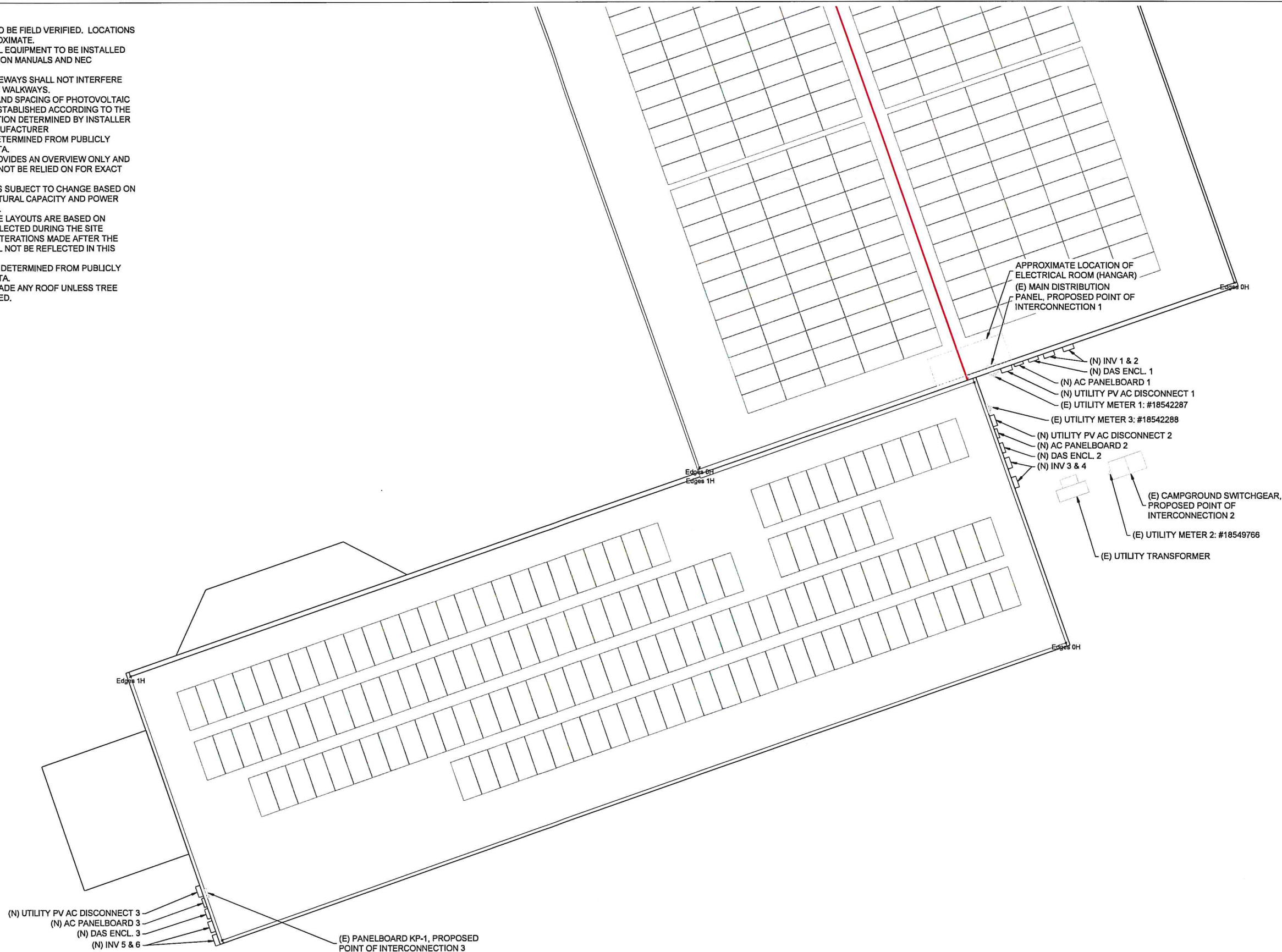
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1:700

SHEET TITLE

E1.0



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CHICAGOLAND SKYDIVING CENTER  
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1207 E GURLER RD  
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SHEET TITLE  
ELECTRICAL SITE PLAN

DRAWN BY  
CP

CHECKED BY  
ST

DATE  
28-Jul-2022

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SHEET SIZE  
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SCALE  
1:100

















SHEET TITLE

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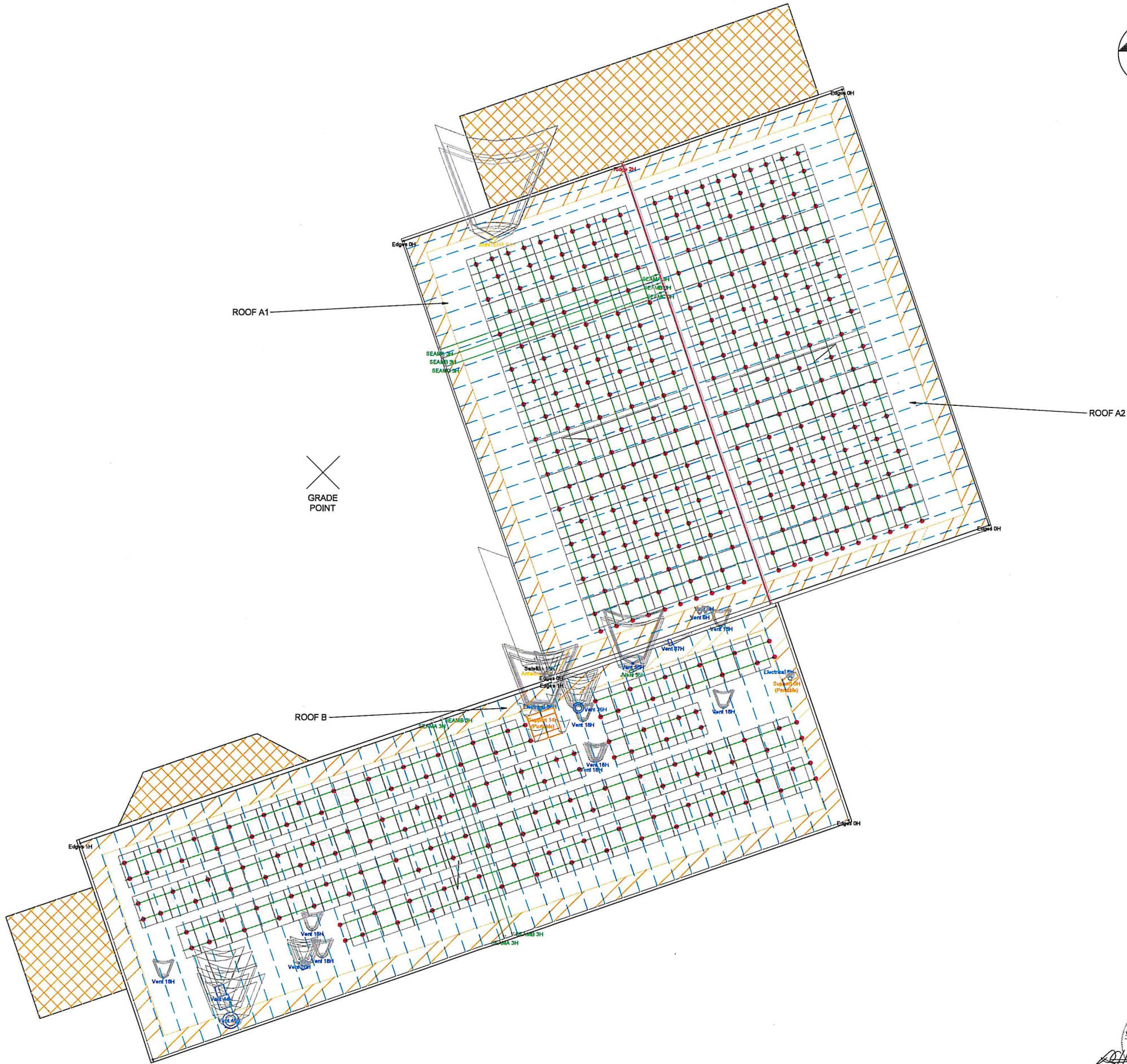




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| LEGEND  |                  |
|---|------------------|
|  | DRAIN            |
|  | VENT             |
|  | GAS              |
|  | RTU              |
|  | BOX              |
|  | SHADOW           |
|  | TREE             |
|  | RIDGE            |
|  | ACCESS           |
|  | ELECTRICAL       |
|  | ROOF SEAM        |
|  | SATELLITE        |
|  | SKYLIGHT         |
|  | SUPPORT          |
|  | UNSURVEYED       |
|  | FIRE ACCESS PATH |

| ROOF DETAILS |       |               |             |              |          |                        |
|--------------|-------|---------------|-------------|--------------|----------|------------------------|
| ROOF #       | PITCH | ARRAY AZIMUTH | MODULE TILT | MODULE COUNT | MATERIAL | HEIGHT ABOVE GRADE     |
| A1           | 2.3°  | 251°          | 0°          | 120          | METAL    | P: 28'-6"<br>E: 24'-2" |
| A2           | 2.3°  | 71°           | 0°          | 120          | METAL    | P: 28'-6"<br>E: 24'-2" |
| B            | 2.5°  | 161°          | 6°          | 142          | METAL    | P: 15'-2"<br>E: 13'-1" |



PROJECT TITLE  
CHICAGOLAND SKYDIVING CENTER  
PROJECT ADDRESS  
1207 E GURLEY RD  
ROCHELLE, IL 61068

SHEET TITLE  
ARRAY LAYOUT

DRAWN BY  
CP

CHECKED BY  
ST

DATE  
28-Jul-2022

DRAWING LEVEL  
ISSUED FOR CONSTRUCTION

| REV. | DATE        | DRAWING LEVEL           |
|------|-------------|-------------------------|
| A    | 05-JUL-2022 | ISSUED FOR CONSTRUCTION |
| B    | 12-JUL-2022 | ISSUED FOR CONSTRUCTION |
| C    | 28-JUL-2022 | ISSUED FOR CONSTRUCTION |
| D    |             |                         |
| E    |             |                         |

SHEET SIZE  
36X24 SHOULD MEASURE 1":

SCALE  
1:125

SHEET TITLE

E1.2







PROJECT TITLE  
CHICAGOLAND SKYDIVING CENTER  
PROJECT ADDRESS  
1207 E GURLER RD  
ROCHELLE, IL 61068

SHEET TITLE  
MODULE STRINGING LAYOUT

DRAWN BY  
CP

CHECKED BY  
ST

DATE  
28-Jul-2022

DRAWING LEVEL  
ISSUED FOR  
CONSTRUCTION

| DRAWING LEVEL           | DATE        | REV. |
|-------------------------|-------------|------|
| ISSUED FOR CONSTRUCTION | 05-JUL-2022 | A    |
| ISSUED FOR CONSTRUCTION | 12-JUL-2022 | B    |
| ISSUED FOR CONSTRUCTION | 26-JUL-2022 | C    |
|                         |             | D    |
|                         |             | E    |

| DATE        | REV. |
|-------------|------|
| 05-JUL-2022 | A    |
| 12-JUL-2022 | B    |
| 26-JUL-2022 | C    |
|             | D    |
|             | E    |

SHEET SIZE  
36X24 SHOULD  
MEASURE 1":

SCALE  
1:100

SHEET TITLE

E1.3

