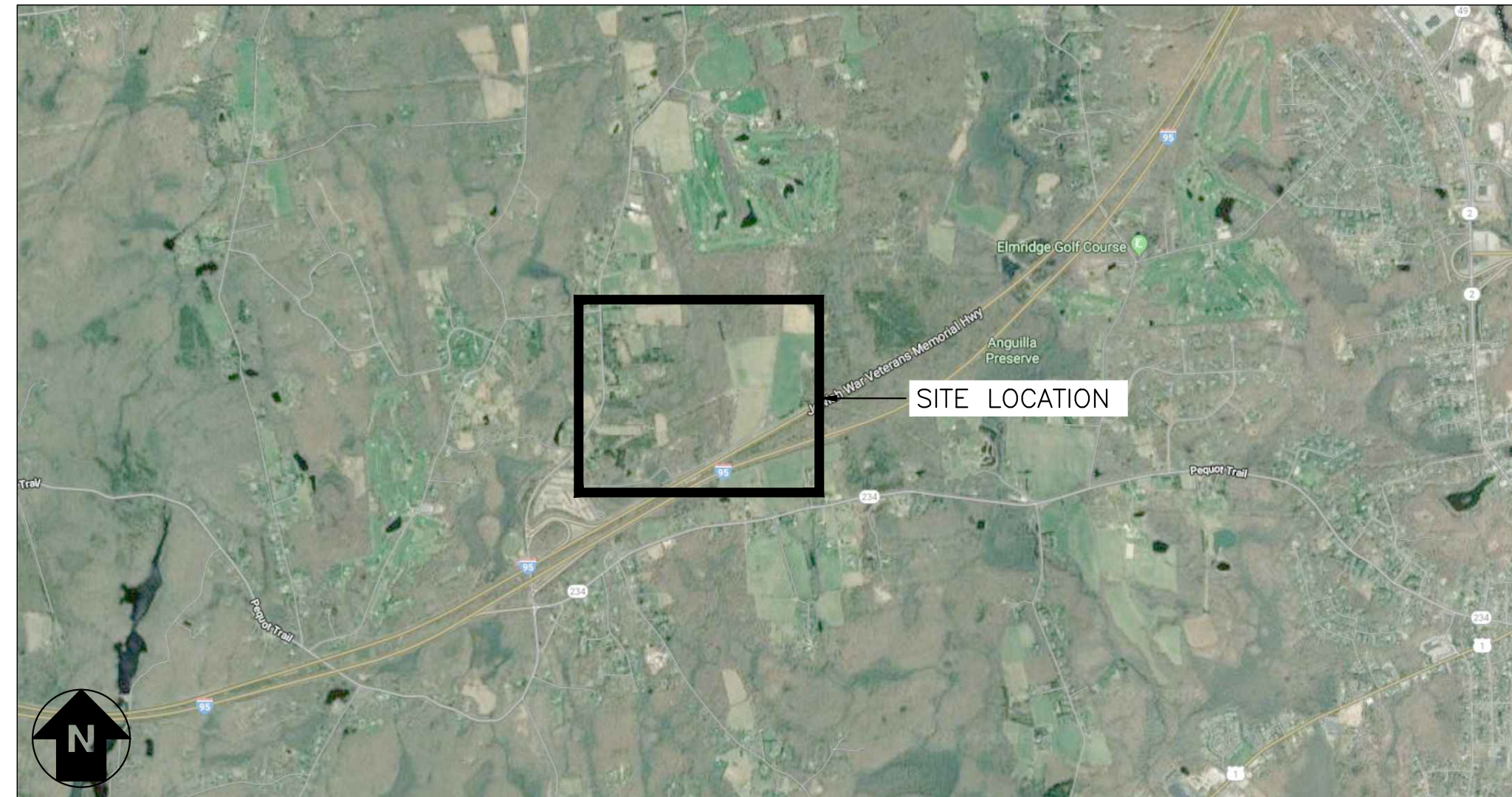


6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK

35 TAUGWONK SPUR RD., STONINGTON, CT 06378



LOCATION MAP
SCALE: 1" = 1000'-0"



SYSTEM PLAN
SCALE: 1" = 300'-0"

DRAWING INDEX

| GENERAL | CONCEPTUAL DESIGN | PERMIT SET | PERMIT SET - REV 1 | PERMIT SET - REV 2 | PERMIT SET - REV 3 | ISSUE FOR CONSTRUCTION |
|--|-------------------|------------|--------------------|--------------------|--------------------|------------------------|
| G001 TITLE SHEET | ● | ● | ● | ● | ● | ● |
| ELECTRICAL | | | | | | |
| E001 ELECTRICAL NOTES & SYMBOL LIST | | ● | ● | ○ | ○ | ● |
| E100 OVERALL AC ELECTRICAL PLAN | ● | ● | ● | ○ | ○ | ○ |
| E101 PARTIAL AC ELECTRICAL PLAN - SYSTEM 1 | | ● | ● | ○ | ○ | ○ |
| E102 PARTIAL AC ELECTRICAL PLAN - SYSTEM 2 | | ● | ● | ○ | ○ | ○ |
| E103 PARTIAL AC ELECTRICAL PLAN - SYSTEM 3 | | ● | ● | ○ | ○ | ○ |
| E104 PARTIAL AC ELECTRICAL PLAN - SYSTEM 4 | | ● | ● | ○ | ○ | ○ |
| E105 PARTIAL AC ELECTRICAL PLAN - SYSTEM 5 | | ● | ● | ○ | ○ | ○ |
| E106 PARTIAL AC ELECTRICAL PLAN - SYSTEM 6 | | ● | ● | ○ | ○ | ○ |
| E107 TYPICAL INVERTER & EQUIPMENT PLAN | | ● | ● | ○ | ○ | ○ |
| E108 EQUIPMENT MOUNTING DETAILS IN ARRAY | | ● | ● | ○ | ○ | ○ |
| E109 MEDIUM VOLTAGE EQUIPMENT PLAN | | ● | ● | ○ | ○ | ○ |
| E110 POLE LINE DETAILS | | | ● | ● | ○ | ○ |
| E111 TYPICAL RISER POLE DETAILS | | | | | | ● |
| E112 TYPICAL SPAN POLE DETAIL | | | | | | ● |
| E200 PARTIAL DC ELECTRICAL PLAN - SYSTEM 1 | | ● | ● | ○ | ○ | ○ |
| E201 PARTIAL DC ELECTRICAL PLAN - SYSTEM 2 | | ● | ● | ○ | ○ | ○ |
| E202 PARTIAL DC ELECTRICAL PLAN - SYSTEM 3 | | ● | ● | ○ | ○ | ○ |
| E203 PARTIAL DC ELECTRICAL PLAN - SYSTEM 4 | | ● | ● | ○ | ○ | ○ |
| E204 PARTIAL DC ELECTRICAL PLAN - SYSTEM 5 | | ● | ● | ○ | ○ | ○ |
| E205 PARTIAL DC ELECTRICAL PLAN - SYSTEM 6 | | ● | ● | ○ | ○ | ○ |
| E206 STRING WIRING DETAILS | | | ● | ○ | ○ | ○ |
| E300 ONE LINE DIAGRAM - MEDIUM VOLTAGE | ● | ● | ● | ● | ● | ○ |
| E301 ONE LINE DIAGRAM - SYSTEM 1 | | ● | ● | ● | ● | ● |
| E302 ONE LINE DIAGRAM - SYSTEM 2 | | ● | ● | ● | ● | ● |
| E303 ONE LINE DIAGRAM - SYSTEM 3 | | ● | ● | ● | ● | ○ |
| E304 ONE LINE DIAGRAM - SYSTEM 4 | | ● | ● | ● | ● | ○ |
| E305 ONE LINE DIAGRAM - SYSTEM 5 | | ● | ● | ● | ● | ○ |
| E306 ONE LINE DIAGRAM - SYSTEM 6 | | ● | ● | ● | ● | ○ |
| E310 SCHEDULES & CALCULATIONS | | ● | ● | ○ | ○ | ○ |
| E311 SCHEDULES & CALCULATIONS | | ● | ● | ○ | ○ | ○ |
| E312 SCHEDULES & CALCULATIONS | | ● | ● | ○ | ○ | ○ |
| E313 SCHEDULES & CALCULATIONS | | ● | ● | ○ | ○ | ○ |
| E401 GROUNDING DETAILS | | ● | ○ | ○ | ○ | ○ |
| E402 ELECTRICAL DETAILS | | ● | ○ | ○ | ○ | ○ |
| E500 LABELS & SIGNAGE | | ● | ● | ○ | ○ | ○ |
| E501 MEDIUM VOLTAGE LABELS & SIGNAGE | | ● | ○ | ○ | ○ | ○ |
| E600 EQUIPMENT DATA SHEETS | | ● | ○ | ○ | ○ | ○ |
| E700 MONITORING SYSTEM WIRING DIAGRAM | | ● | ● | ○ | ○ | ○ |

LEGEND:

| | |
|--|---|
| UPDATED DRAWING ISSUED | ● |
| UNCHANGED, PREVIOUSLY ISSUED DRAWING STILL CURRENT | ○ |
| DRAWING REMOVED FROM SET | ✕ |

DRAWING TITLE
TITLE SHEET

DRAWING #
G001

TOTAL SYSTEM SUMMARY:

TOTAL DC SYSTEM SIZE: 6095.440 kWDC
AC SYSTEM SIZE: 4980.000 kWAC

MODULE MANUFACTURER: CANADIAN SOLAR
MODULE MODEL: CS3U-360PB-AG/CS3W-400PB-AG
MODULES PER STRING: 26
MODULE QUANTITY: 8294/7774
STRING QUANTITY: 319/299

MODULE TILT: 25°
MODULE AZIMUTH: 0°

INVERTER MANUFACTURER: SOLECTRIA
INVERTER MODEL: XGI-1500 125/125, 150/166, 166/166
INVERTER QUANTITY: 32, 1, 5

SUBSYSTEM SUMMARIES:

| PHASE 1 - SYSTEM 1 | PHASE 1 - SYSTEM 3 | PHASE 2 - SYSTEM 5 |
|-------------------------------|------------------------------|------------------------------|
| TOTAL DC SIZE: 1254.240 kWDC | TOTAL DC SIZE: 632.320 kWDC | TOTAL DC SIZE: 1151.280 kWDC |
| AC SYSTEM SIZE: 1000.000 kWAC | AC SYSTEM SIZE: 500.000 kWAC | AC SYSTEM SIZE: 980.000 kWAC |
| MODULE QUANTITY: 1664 (360W) | MODULE QUANTITY: 832 (360W) | MODULE QUANTITY: 1638 (360W) |
| MODULE QUANTITY: 1638 (400W) | MODULE QUANTITY: 832 (400W) | MODULE QUANTITY: 1404 (400W) |
| STRING QUANTITY: 127 | STRING QUANTITY: 52 | STRING QUANTITY: 117 |

| PHASE 1 - SYSTEM 2 | PHASE 2 - SYSTEM 4 | PHASE 2 - SYSTEM 6 |
|-------------------------------|-------------------------------|------------------------------|
| TOTAL DC SIZE: 1243.840 kWDC | TOTAL DC SIZE: 1223.040 kWDC | TOTAL DC SIZE: 590.720 kWDC |
| AC SYSTEM SIZE: 1000.000 kWAC | AC SYSTEM SIZE: 1000.000 kWAC | AC SYSTEM SIZE: 500.000 kWAC |
| MODULE QUANTITY: 1664 (360W) | MODULE QUANTITY: 1664 (360W) | MODULE QUANTITY: 832 (360W) |
| MODULE QUANTITY: 1612 (400W) | MODULE QUANTITY: 1560 (400W) | MODULE QUANTITY: 728 (400W) |
| STRING QUANTITY: 126 | STRING QUANTITY: 124 | STRING QUANTITY: 60 |

SCOPE OF WORK SUMMARY

GROUND MOUNT PV ARRAY:
INSTALL SOLAR MODULES AND RACKING SYSTEM ON GROUND LEVEL. INSTALL INVERTERS AND ELECTRICAL DISTRIBUTION EQUIPMENT TO INTERCONNECT AT NEW ELECTRICAL DISTRIBUTION EQUIPMENT.

DEVELOPER:



180 JOHNSON STREET,
MIDDLETOWN, CT 06457

ENGINEERED BY:



5 MARINE VIEW PLAZA, SUITE 301
HOBOKEN, NEW JERSEY, 07030

REVISION DESCRIPTION: ISSUE FOR CONSTRUCTION, PERMIT SET - REV 3, PERMIT SET - REV 2, PERMIT SET - REV 1
 DATE: 07/10/2020, 04/23/2020, 04/03/2020, 03/13/2020
 PUREPOWER ENGINEERING INC. 5 MARINE VIEW PLAZA, HOBOKEN, NJ 07030. WWW.PUREPOWER.COM. RICHARD A. JONAS, P.E. CT LICENSE NO. 03629262
 GREENSKIES 180 JOHNSON STREET, MIDDLETOWN, CT 06457. WWW.GREENSKIES.COM. a Clean Focus company
 DEVELOPER: GREENSKIES
 PAGE SIZE: 36" x 24"
 PROJECT #: 00083
 DC SYSTEM SIZE: 6095.440 KW
 AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN 360W/400W
 MODULE QUANTITY: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH
 PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DRAWING # G001

RULER IN INCHES: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18

PLT DATE: 7/13/2020 9:08 AM
RULER IN INCHES: 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0

SOLAR PV GENERAL NOTES

- INSTALL A COMPLETE AND OPERATIONAL SOLAR PHOTOVOLTAIC SYSTEM INCLUDING THE RECONNECTION OF ANY EXISTING ELECTRICAL EQUIPMENT DISTURBED DURING SOLAR PHOTOVOLTAIC ARRAY INSTALLATION.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE SOLAR PV SYSTEM. THEY DO NOT SHOW ALL MATERIALS NEEDED. CONTRACTOR IS REQUIRED TO PROVIDE ANY AND ALL CONDUITS, CONNECTORS, SWEEPS, SUPPORTS, BENDS, FITTINGS, HANGERS, COVER PLATES, AND ADDITIONAL PULL AND JUNCTION BOXES WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE SOLAR PV SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC).
- THE DEFINITION OF ELECTRICAL TERMS USED SHALL BE AS DEFINED STATES' ADOPTED EDITION OF THE NEC.
- THE TERM "SIZE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "LENGTH, CURRENT AND VOLTAGE RATING, NUMBER OF POLES, NEMA SIZE, AND OTHER SIMILAR ELECTRICAL CHARACTERISTICS".
- CONTRACTOR IS REQUIRED TO SURVEY AND INSPECT ALL AREAS PRIOR TO PERFORMING SERVICES TO ENSURE CLEARANCES CAN BE MET AND NO INTERFERENCES EXIST. NO CUTTING OR DRILLING IS TO BE PERFORMED PRIOR TO LOCATING EXISTING STRUCTURAL MEMBERS AND UTILITIES.
- SERVICE ENTRANCE RATED EQUIPMENT, C/T CABINETS, AND METER SOCKETS ARE TO BE APPROVED FOR USE BY THE LOCAL UTILITY COMPANY.
- ELECTRICAL EQUIPMENT INSTALLED MUST BE LABELED, UL LISTED, AND INSTALLED ACCORDINGLY.
- REQUIRED PERMITS AND INSPECTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE COORDINATED WITH THE AUTHORITY HAVING JURISDICTION (AHJ).
- ALL WORK IS TO BE PERFORMED BY LICENSED WORKMEN AND COMPLETED IN ACCORDANCE WITH THE STATES' ADOPTED NEC.
- THE SOLAR PV SYSTEM EQUIPMENT ON THE DC SIDE IS RATED FOR 1500V AND IS IN COMPLIANCE WITH NEC 690.80. THE INVERTERS, MODULES, STRING FEEDERS, AND RELATED COMPONENTS ARE ALL RATED AND LABELED AS 1000V.
- EMT CONDUIT IS ALLOWED IN EXTERIOR LOCATIONS WHEN RAIN-TIGHT CONNECTORS AND FITTINGS ARE USED, AND THE CONDUIT IS NOT EXPOSED TO ANY POTENTIAL PHYSICAL DAMAGE. ALL SUPPORTS, BOLTS, STRAPS, AND SCREWS SHALL BE CORROSION RESISTANT.
- ALL RACEWAYS ARE TO BE METALLIC UNLESS OTHERWISE NOTED. APPLY AN ADHESIVE LABEL ALONG ALL RACEWAYS SHEET E500. LABEL SHALL BE APPLIED EVERY 10', AT EVERY TURN, AND ABOVE AND BELOW ALL PENETRATIONS.
- ALL CONDUCTORS SHALL BE LISTED FOR USE IN APPROPRIATE RACEWAY.
- ALL BREAKERS INSTALLED AS PART OF THE NEW SOLAR PV SYSTEM MUST BE RATED FOR REVERSE FEED.
- COMMUNICATIONS CABLES INSTALLED BETWEEN MONITORING EQUIPMENT AND CLIENT NETWORK EQUIPMENT (SWITCHES, ROUTERS, SERVERS, ETC.) SHALL HAVE A GREEN OUTER JACKET. CABLES SHALL HAVE CABLE TAGS INSTALLED AT BOTH ENDS OF CABLE TO SHOW PROPER IDENTIFICATION.
- CONTRACTOR SHALL TORQUE TEST ALL FIELD TERMINATED WIRES PER MANUFACTURER'S SPECS AND PROVIDE PERMANENT MARKINGS ACROSS THE BOLT AND WASHER INDICATING ACHIEVED TORQUE.
- BARE COPPER GROUND CONDUCTORS SHALL BE SIZED PER NEC. EQUIPMENT GROUNDING CONDUCTORS (EGC) SHALL BE INSTALLED IN CONDUIT.
- POLARIS SPLICES SHALL NOT BE USED ON THIS PROJECT IN ANY CAPACITY.
- CONTRACTOR SHALL SUBMIT A FORMAL RFI (REQUEST FOR INFORMATION) FOR ANY CONFUSION OR DISCREPANCY ON THE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ANY INSTALLATION DEVIATIONS WITHOUT APPROVAL FROM GREENSKIES OR THE ENGINEER OF RECORD.
- MOGUL LB CONDUIT BODIES SHALL NOT BE USED ON THIS PROJECT.
- TEMPERATURE RATINGS OF ALL CONDUCTORS, TERMINATIONS, BREAKERS, OR OTHER DEVICES ASSOCIATED WITH THE SOLAR PV SYSTEM SHALL BE RATED FOR AT LEAST 75 DEGREE C.
- ALL METALLIC CONDUITS SHALL HAVE BOND BUSHINGS ON BOTH ENDS AND EQUIPMENT GROUNDING CONDUCTORS (EGC) ROUTED THROUGH CONDUIT.

PV ARRAY WORK NOTES

- WORK INCLUDES INSTALLING PROPOSED SOLAR PANEL ARRAY PER THE MANUFACTURERS' INSTALLATION PROCEDURES AND INSTRUCTIONS, ALONG WITH ASSOCIATED ELECTRICAL WIRING.
- WORK AREAS SHALL BE MARKED, FENCED, AND OTHERWISE SECURED SO AS TO PROVIDE PROPER PROTECTION FOR THE PUBLIC AND AS REQUIRED BY THE BUILDING INSPECTOR.
- DIMENSION OF EXISTING ELEMENTS SHOWN WERE DETERMINED THROUGH A COMBINATION OF EXISTING DRAWINGS AND FIELD INVESTIGATIONS, AND SHOULD BE USED FOR INFORMATIONAL PURPOSES ONLY. ALL EXISTING CONDITIONS AND DIMENSIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- ARRAY LAYOUT IS BASED ON A COMBINATION OF SHADING, AND STRINGING. THE CONTRACTOR SHALL NOT DEVIATE FROM THE LAYOUT SHOWN WITHOUT APPROVAL FROM THE ENGINEER.
- ELECTRICAL RUNS SHOWN ON PLAN REPRESENT THE PROPOSED LAYOUT. THE CONTRACTOR SHALL NOT RELOCATE INVERTERS OR PANELBOARDS WITHOUT APPROVAL FROM THE ENGINEER.
- THE INSTALLER SHALL VERIFY THE PROJECT SOUTH DIRECTION IN THE FIELD, AND INSTALL THE MODULES AS INDICATED ON THE PLANS. THE MODULES SHALL BE INSTALLED AS TILTED TOWARDS THE GENERAL DIRECTION OF PROJECT SOUTH.
- THE FRONT OF THE INVERTER SHALL NOT FACE PROJECT SOUTH. ORIENT THE INVERTER SUCH THAT IT IS FACING NORTH WHEN POSSIBLE. IF SPACE IS A LIMITING FACTOR THEN THE INVERTER SHALL BE ALLOWED TO FACE PROJECT EAST OR WEST.
- NO CONDUCTOR OR CONNECTOR SHALL BE EXPOSED TO THE ELEMENTS OUTSIDE OF THE BOUNDARIES OF EACH SUB-ARRAY.
- CONDUIT ABOVE GRADE SHALL ENTER UNDERNEATH RACKING, WHERE APPLICABLE, IN ORDER TO PROTECT CONDUCTORS.
- CONDUIT BETWEEN SUB-ARRAYS SHALL BE SECURED TO THE RACKING SYSTEM VIA CONDUIT CLAMPS.
- CONTRACTOR SHALL ENSURE DC WIRING IS SECURED UNDERNEATH THE ARRAY.
- IN ADDITION TO HEAT SHRINK LABELING ON THE STRING HOMERUN CONDUCTORS, PLACARDS SHALL BE AFFIXED TO THE CROSS BEAMS OF THE RACKING.
- CONTRACTOR SHALL UTILIZE SUNBUNDLER STAINLESS STEEL CABLE TIES FOR WIRE MANAGEMENT. STANDARD NYLON/PLASTIC CABLE TIES ARE NOT ACCEPTABLE.

LEGEND - GENERAL

- LIGHT LINE INDICATES EXISTING OR BEYOND THE SCOPE OF PROJECT
- DARK LINE INDICATES NEW OR WITHIN THE SCOPE OF PROJECT
- DASHED LINE INDICATES EQUIPMENT AT A DIFFERENT ELEVATION
- EXISTING TEXT LIGHT TEXT INDICATES EXISTING OR BEYOND THE SCOPE OF PROJECT
- NEW TEXT DARK TEXT INDICATES NEW OR WITHIN THE SCOPE OF PROJECT

LEGEND - PLAN SYMBOLS

- SOLAR MODULE
- RACEWAY TURNING UP OR TOWARDS OBSERVER
- RACEWAY TURNING DOWN OR AWAY FROM OBSERVER
- CABLE TRAY
- PULLBOX
- JUNCTION BOX
- PANEL BOARD
- LOCAL DISCONNECT SWITCH
- SIMPLEX RECEPTACLE, RATED: 125-VOLTS AC, 20A
- DUPLEX RECEPTACLE, RATED: 125-VOLTS AC, 20A
- WEATHERPROOF DUPLEX RECEPTACLE, RATED: 125-VOLTS AC, 20A
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, RATED: 125-VOLTS AC, 20A
- DOUBLE DUPLEX (QUAD) RECEPTACLE
- CEILING/PENDANT-MOUNT LIGHT, SEE FIXTURE SCHEDULE FOR TYPE
- WALL-MOUNT LIGHT, SEE FIXTURE SCHEDULE FOR TYPE
- GROUND ROD
- GROUND ROD W/ TEST WELL

LEGEND - ONE LINE DIAGRAM AND WIRING DIAGRAM SYMBOLS

- CIRCUIT BREAKER, FRAME SIZE AND TRIP SETTING AS NOTED
- DISCONNECT SWITCH
- INVERTER
- BUS CONNECTION POINT
- CROSSING POINT (NO CONNECTION)
- NORMALLY CLOSED - NORMALLY OPEN CONTACTS
- TRANSFORMER CONTROL/POWER, SIZE AND RATING AS NOTED
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- FUSE, SIZE/RATING AS NOTED
- FUSED DISCONNECT SWITCH
- EARTH GROUND
- PUSHBUTTON SWITCHES; NUMBER AND TYPE OF CONTACT BLOCKS MAY VARY
- PUSHBUTTON SWITCHES MUSHROOM HEAD; NUMBER AND TYPE OF CONTACT BLOCKS MAY VARY
- KEYED INTERLOCK (KIRK KEY OR EQ.)
- SHUNT TRIP COIL

ABBREVIATIONS

- A AMPERES
- AERMS ARC ENERGY REDUCING MAINTENANCE SWITCH
- AF AMPERE FRAME
- A.F.F. ABOVE FINISH FLOOR
- A.F.G. ABOVE FINISH GRADE
- AFDI ARC FAULT DETECTION & INTERRUPTER
- AIC AMPS INTERRUPTING CAPACITY
- AT AMPERE TRIP
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- BKR CIRCUIT BREAKER
- C CONDUIT
- CB COMBINER BOX
- CKT CIRCUIT
- CP CONTROL PANEL
- CU COPPER
- DISC DISCONNECT
- EGC EQUIPMENT GROUNDING CONDUCTOR
- ELEC ELECTRIC, ELECTRICAL
- EMERG EMERGENCY
- EMT ELECTRICAL METALLIC TUBING
- EQUIP EQUIPMENT
- EXIST EXISTING
- G, GND GROUND
- GEC GROUNDING ELECTRODE CONDUCTOR
- GFCI GROUND-FAULT CIRCUIT INTERRUPTER
- GFPE GROUND-FAULT PROTECTION OF EQUIPMENT
- HID HIGH-INTENSITY DISCHARGE (LIGHTING)
- HZ HERTZ
- IMC INTERMEDIATE METALLIC CONDUIT
- kAIC 1000 AMPS INTERRUPT CAPACITY
- kCMIL 1000 CIRCULAR MILLS
- kVA KILO-VOLT AMPERE
- kW KILOWATT
- LA LIGHTNING & SURGE ARRESTOR
- LED LIGHT-EMITTING DIODE
- LSIG LONG, SHORT, INSTANTANEOUS, & GROUND FAULT LIGHTING
- LTC LIGHTING
- MAX MAXIMUM
- MFG MANUFACTURER
- MLO MAIN LUGS ONLY
- MPPT MAXIMUM POWER POINT TRACKING
- NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
- NTS NOT TO SCALE
- P POLE
- PF POWER FACTOR
- PLC PROGRAMMABLE LOGIC CONTROLLER
- POI POINT OF INTERCONNECTION
- PRI PRIMARY
- PVC POLYVINYL CHLORIDE
- PWR POWER
- RCPT RECEPTACLE
- RGS RIGID GALVANIZED STEEL CONDUIT
- RMC RIGID METAL CONDUIT
- SA SURGE ARRESTOR
- SEC SECONDARY
- SPD SURGE PROTECTION DEVICE
- SSBJ SUPPLY SIDE BONDING JUMPER
- ST SHUNT TRIP
- STP SHIELDED TWISTED PAIR
- SW SWITCH
- TBD TO BE DETERMINED
- TP TWISTED PAIR
- TYP TYPICAL
- V VOLT
- VA VOLT-AMPERE
- W WATT
- WP WEATHERPROOF
- XFMR TRANSFORMER
- Ø DIAMETER OR PHASE

NOTES SPECIFIC TO CONNECTICUT

ADOPTED NEC VERSION: 2017
UTILITY: EVERSOURCE
UTILITY DISCONNECT SWITCH REQUIREMENTS:
AN EXTERNAL DISCONNECT AT THE PCC OR AT ANOTHER MUTUALLY AGREEABLE POINT THAT IS ACCESSIBLE TO COMPANY PERSONNEL AT ALL HOURS OF ALL DAYS AND THAT CAN BE OPENED FOR ISOLATION IF REQUIRED. THE SWITCH SHALL BE GANG OPERATED, HAVE A VISIBLE AIR GAP BETWEEN SWITCH CONTACTS, BE RATED TO INTERRUPT THE MAXIMUM GENERATOR OUTPUT AND BE CAPABLE OF BEING LOCKED OPEN, TAGGED AND GROUNDED ON COMPANY SIDE BY COMPANY PERSONNEL. THIS DEVICE MAY BE OPERATED MANUALLY, REMOTELY OR THROUGH THE OPERATION OF A COMPANY TRANSFER TRIP SCHEME.

| INVERTER INFORMATION | | | |
|-------------------------------------|------------------|---------|-------------------|
| MANUFACTURER | SOLECTRIA | | |
| MODEL | XGI-1500 125/125 | | |
| DC RATING | | | |
| V-MAX | 1500V | | |
| I-MAX OPERATING | 148.3A | | |
| AC RATING | | | |
| P-OUT | 125.0kW | | |
| V-NOM | 600V, 3Ø | | |
| I-OUT | 120A | | |
| CONFIGURATION | WYE + N | | |
| DESIGN CRITERIA | | | |
| STRINGS PER INVERTER | 16 | | |
| MODULES PER STRING | 26 | | |
| MODULE WATTS | 360 | 400 | |
| MODULE QUANTITY | 416 | 416 | |
| INVERTER/COMBINER BOX WATTS (WDC) | 149760 | 166400 | |
| INVERTER/COMBINER BOX CURRENT (ADC) | 212.80 | 239.80 | |
| INVERTER STRING FUSE SIZE (ADC) | 20 | | |
| TRIP SETTINGS | | | |
| PROTECTIVE DEVICE | TRIP SETTING | VALUE | M |
| UNDER VOLTAGE - FAST | 27-1 | 50% | 300 V 0.16 SEC. |
| UNDER VOLTAGE - SLOW | 27-2 | 88% | 528 V 2.0 SEC. |
| OVER VOLTAGE - SLOW | 59-1 | 110% | 600 V 1.00 SEC. |
| OVER VOLTAGE - FAST | 59-2 | 120% | 720 V 0.16 SEC. |
| UNDER-FREQUENCY | 81-U | 57.0 Hz | 57.0 Hz 0.16 SEC. |
| OVER-FREQUENCY | 81-O | 60.5 Hz | 60.5 Hz 0.16 SEC. |

| INVERTER INFORMATION | | | |
|-------------------------------------|------------------|---------|-------------------|
| MANUFACTURER | SOLECTRIA | | |
| MODEL | XGI-1500 150/166 | | |
| DC RATING | | | |
| V-MAX | 1500V | | |
| I-MAX OPERATING | 178.0A | | |
| AC RATING | | | |
| P-OUT | 150.0kW | | |
| V-NOM | 600V, 3Ø | | |
| I-OUT | 160A | | |
| CONFIGURATION | WYE + N | | |
| DESIGN CRITERIA | | | |
| STRINGS PER INVERTER | 21 | | |
| MODULES PER STRING | 26 | | |
| MODULE WATTS | 360 | 400 | |
| MODULE QUANTITY | 546 | 468 | |
| INVERTER/COMBINER BOX WATTS (WDC) | 196560 | 187200 | |
| INVERTER/COMBINER BOX CURRENT (ADC) | 297.30 | 269.78 | |
| INVERTER STRING FUSE SIZE (ADC) | 20 | | |
| TRIP SETTINGS | | | |
| PROTECTIVE DEVICE | TRIP SETTING | VALUE | M |
| UNDER VOLTAGE - FAST | 27-1 | 50% | 300 V 0.16 SEC. |
| UNDER VOLTAGE - SLOW | 27-2 | 88% | 528 V 2.0 SEC. |
| OVER VOLTAGE - SLOW | 59-1 | 110% | 600 V 1.00 SEC. |
| OVER VOLTAGE - FAST | 59-2 | 120% | 720 V 0.16 SEC. |
| UNDER-FREQUENCY | 81-U | 57.0 Hz | 57.0 Hz 0.16 SEC. |
| OVER-FREQUENCY | 81-O | 60.5 Hz | 60.5 Hz 0.16 SEC. |

| INVERTER INFORMATION | | | |
|-------------------------------------|------------------|---------|-------------------|
| MANUFACTURER | SOLECTRIA | | |
| MODEL | XGI-1500 166/166 | | |
| DC RATING | | | |
| V-MAX | 1500V | | |
| I-MAX OPERATING | 179.7A | | |
| AC RATING | | | |
| P-OUT | 166.0kW | | |
| V-NOM | 600V, 3Ø | | |
| I-OUT | 160A | | |
| CONFIGURATION | WYE + N | | |
| DESIGN CRITERIA | | | |
| STRINGS PER INVERTER | 21 | 18 | |
| MODULES PER STRING | 26 | | |
| MODULE WATTS | 360 | 400 | |
| MODULE QUANTITY | 546 | 468 | |
| INVERTER/COMBINER BOX WATTS (WDC) | 196560 | 187200 | |
| INVERTER/COMBINER BOX CURRENT (ADC) | 279.30 | 269.78 | |
| INVERTER STRING FUSE SIZE (ADC) | 20 | | |
| TRIP SETTINGS | | | |
| PROTECTIVE DEVICE | TRIP SETTING | VALUE | M |
| UNDER VOLTAGE - FAST | 27-1 | 50% | 300 V 0.16 SEC. |
| UNDER VOLTAGE - SLOW | 27-2 | 88% | 528 V 2.0 SEC. |
| OVER VOLTAGE - SLOW | 59-1 | 110% | 600 V 1.00 SEC. |
| OVER VOLTAGE - FAST | 59-2 | 120% | 720 V 0.16 SEC. |
| UNDER-FREQUENCY | 81-U | 57.0 Hz | 57.0 Hz 0.16 SEC. |
| OVER-FREQUENCY | 81-O | 60.5 Hz | 60.5 Hz 0.16 SEC. |

6095-440 KW GROUND MOUNT SYSTEM AT
STONINGTON TAUGWONK
35 TAUGWONK SPUR ROAD
STONINGTON, CT 06378

PROJECT

6095-440 KW
4980,000 KW
CANADIAN 360W/400W
8294/7774
MODULE TYPE:
ORIENTATION:
25° TILT, 0° AZIMUTH

DC SYSTEM SIZE:
AC SYSTEM SIZE:
MODULE TYPE:
ORIENTATION:

6095-440 KW
4980,000 KW
CANADIAN 360W/400W
8294/7774
MODULE TYPE:
ORIENTATION:
25° TILT, 0° AZIMUTH

DEVELOPER
Greenskies
a Clean Focus company

GREENSKIES
180 JOHNSON STREET,
MIDDLETOWN, CT 06457
WWW.GREENSKIES.COM

REGISTRATION NO. 22387
REGISTERED ELECTRICAL ENGINEER
STATE OF CONNECTICUT

PURE POWER
ELECTRICAL CONSTRUCTION
5 MARINE VIEW PLAZA-HOBOKEN, NJ
WWW.PUREPOWER.COM
RICHARD A. VONN
CT LICENSE NO. 03629262

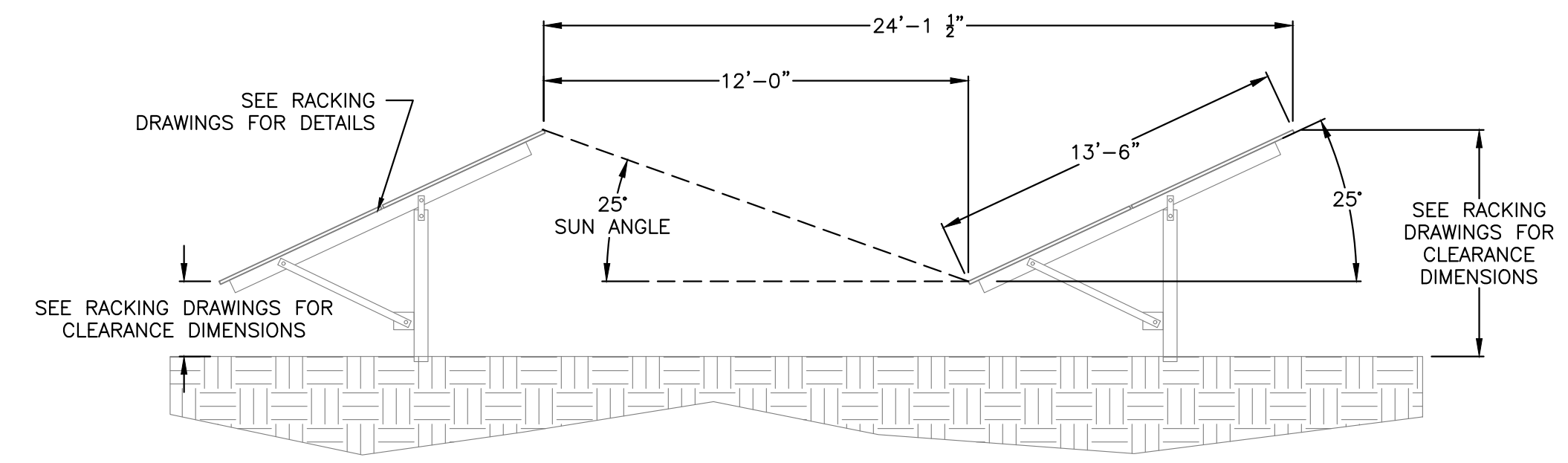
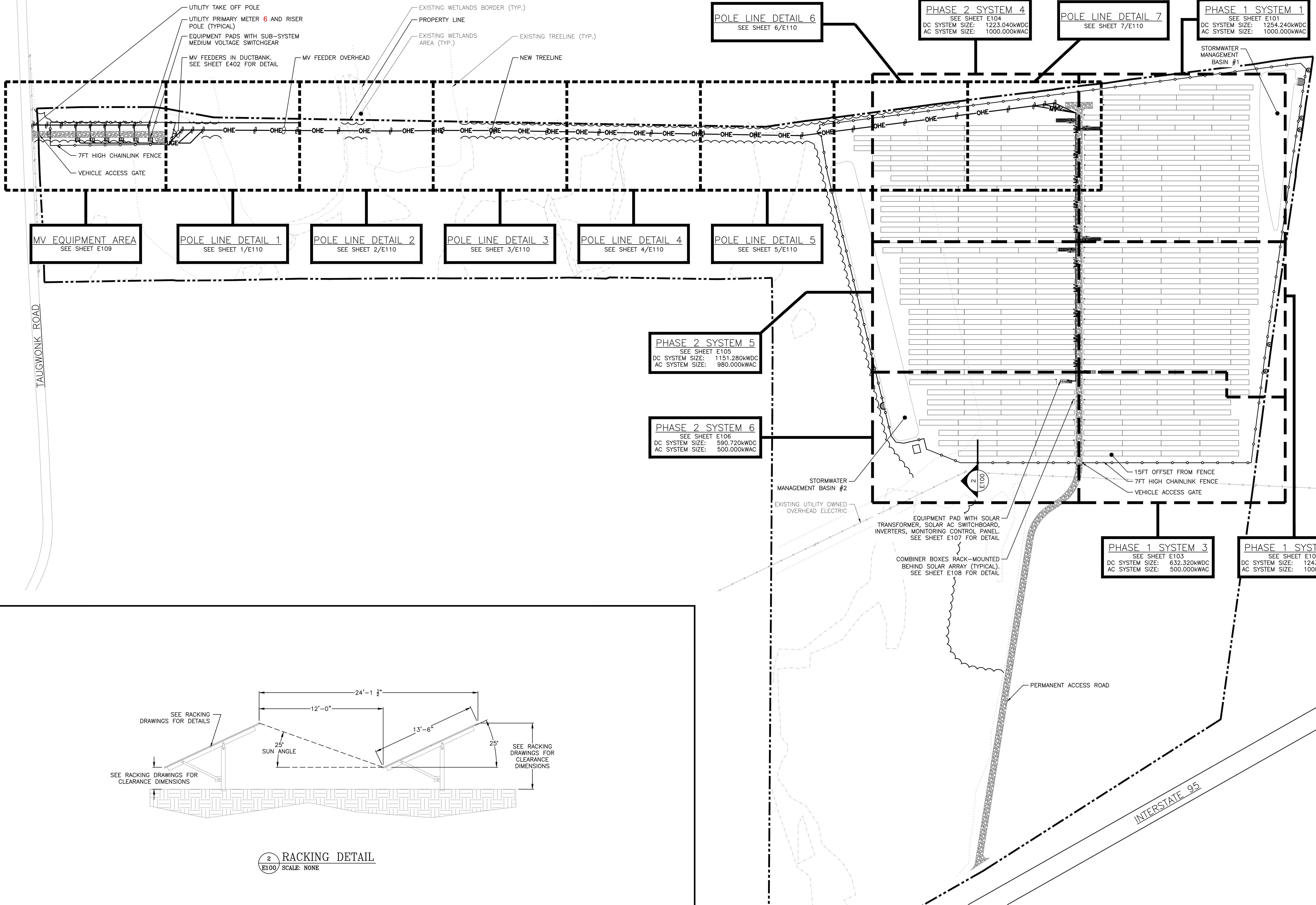
DATE
07/10/2020
03/13/2020
02/19/2020

REVISION DESCRIPTION
ISSUE FOR CONSTRUCTION
PERMIT SET - REV. 1
PERMIT SET

PAGE SIZE
36" x 24"

PROJECT #
PPE 00083

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



2 RACKING DETAIL
E100 SCALE: NONE

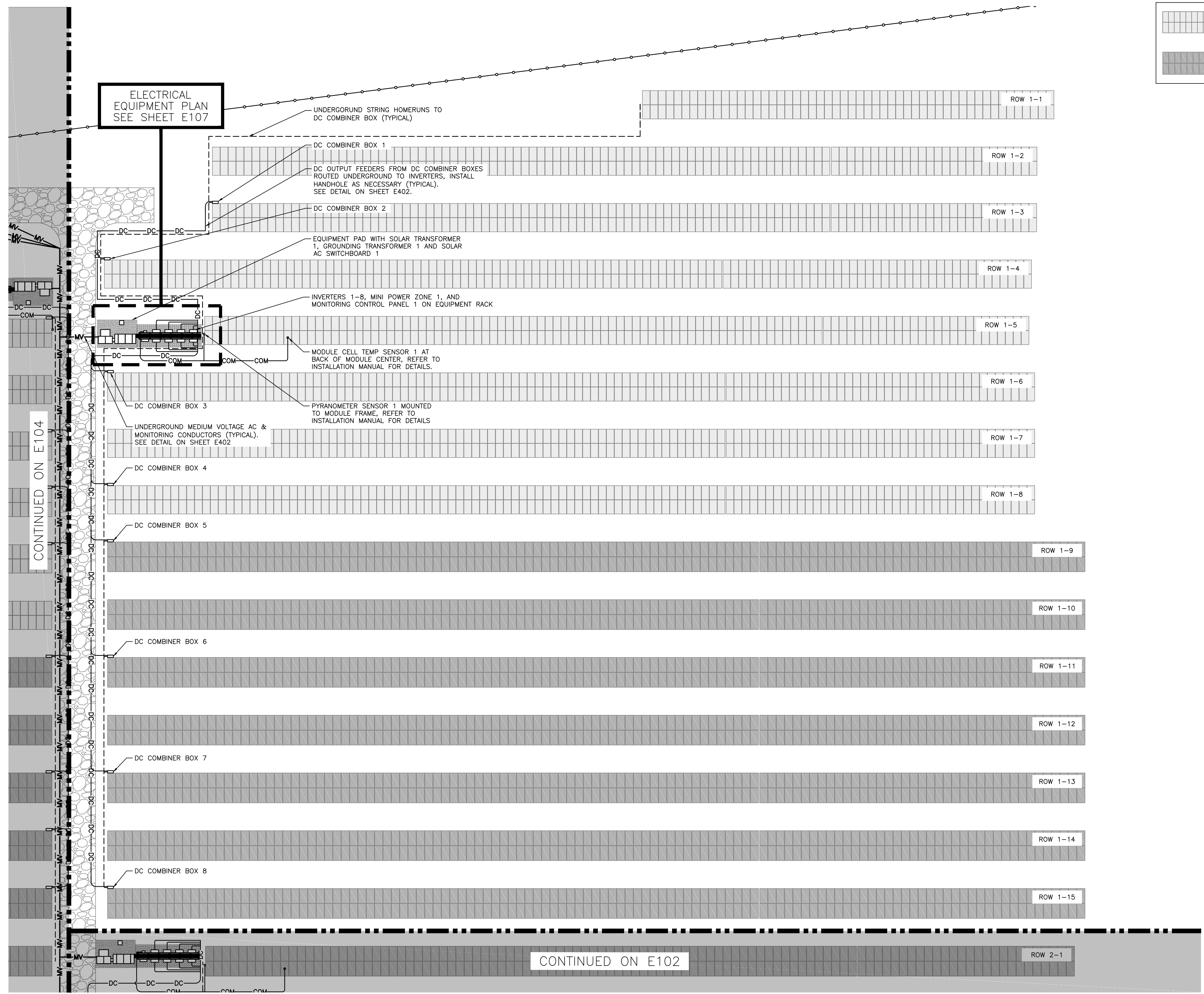
1 AC ELECTRICAL PLAN
E100 SCALE: 1" = 100'-0"

DRAWING TITLE
OVERALL AC ELECTRICAL PLAN
DRAWING #
E100

| | | | |
|---|---|---|---|
| Greenskies a Clean Focus company 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM | DATE: 04/03/2020 PERMIT SET - REV. 2 PERMIT SET - REV. 1 PERMIT SET CONCEPTUAL DESIGN | PM ENG CHK BX AD RI BX AD RI BX AD RI BX AD RI | |
| | DEVELOPER PURE POWER 5 MARINE VIEW PLAZA, HOBOKEN, NJ WWW.PUREPOWER.COM RICHARD A. WINK CT LICENSE NO. 03829282 | DATE: 04/03/2020 PERMIT SET - REV. 2 PERMIT SET - REV. 1 PERMIT SET CONCEPTUAL DESIGN | PM ENG CHK BX AD RI BX AD RI BX AD RI BX AD RI |
| | PROJECT 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378 | DC SYSTEM SIZE: 6095.440 kW AC SYSTEM SIZE: 4980.000 kW MODULE TYPE: CANADIAN 360W/400W 8294/7774 ORIENTATION: 25° TILT, 0° AZIMUTH | DEVELOPER PURE POWER 5 MARINE VIEW PLAZA, HOBOKEN, NJ WWW.PUREPOWER.COM RICHARD A. WINK CT LICENSE NO. 03829282 |
| | PAGE SIZE 3.6" x 24" PROJECT # PPE 00083 | DATE: 04/03/2020 PERMIT SET - REV. 2 PERMIT SET - REV. 1 PERMIT SET CONCEPTUAL DESIGN | PM ENG CHK BX AD RI BX AD RI BX AD RI BX AD RI |

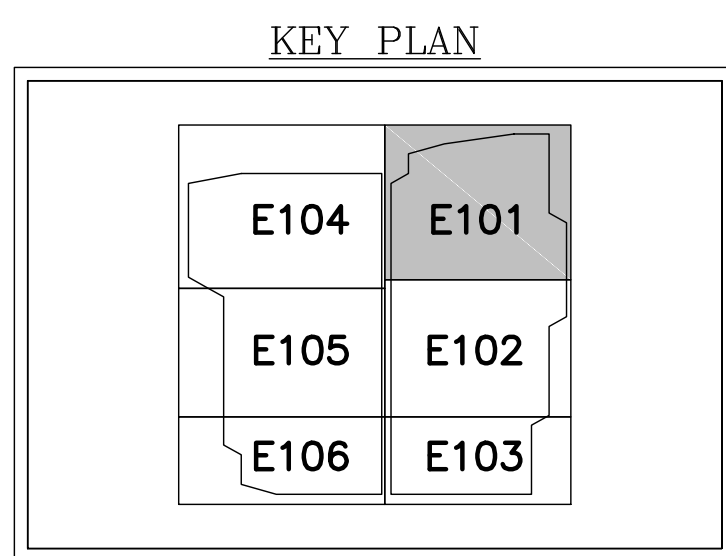
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PLOT DATE: 7/13/2020 9:09 AM



MODULE LEGEND

| | |
|--|---------------------|
| | CANADIAN SOLAR 360W |
| | CANADIAN SOLAR 400W |



1 PARTIAL ELECTRICAL PLAN - SYSTEM 1
SCALE: 1" = 20'-0"



DRAWING TITLE
PARTIAL ELECTRICAL PLAN - SYSTEM 1

DRAWING #
E101

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378

DC SYSTEM SIZE: 6095.440 KW
AC SYSTEM SIZE: 4980.000 KW
MODULE TYPE: CANADIAN 360W/400W
MODULE QUANTITY: 8294/7774
ORIENTATION: 25° TILT, 0° AZIMUTH

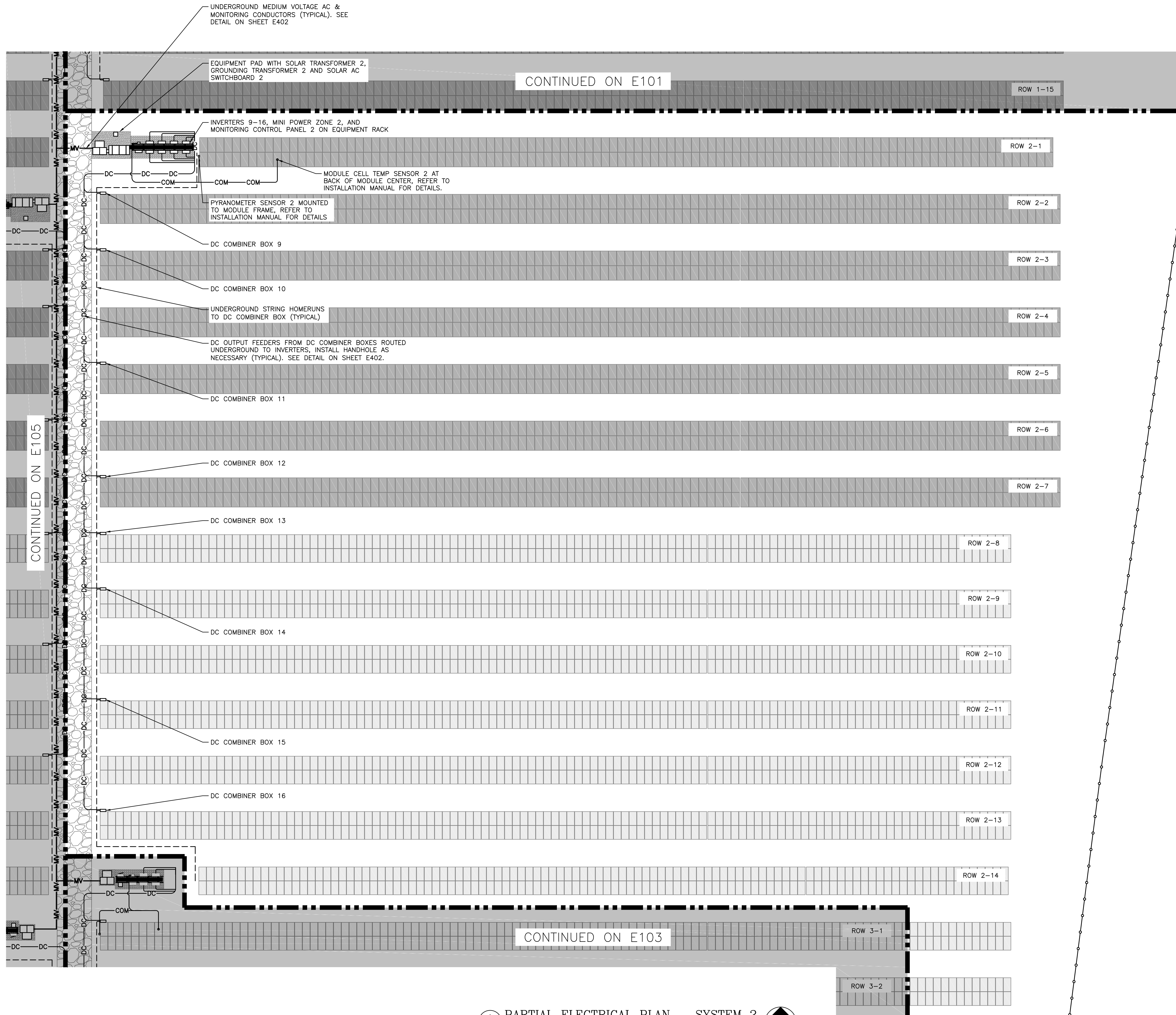
DEVELOPER: Greenskies a Clean Focus company
180 JOHNSON STREET, MIDDLETOWN, CT 06457
WWW.GREENSKIES.COM

PURE POWER ENERGY SOLUTIONS
5 MARINE VIEW PLAZA, HOBOKEN, NJ
WWW.PUREPOWER.COM
RICHARD A. TUNNEY
CT LICENSE NO. 03829282

DATE: 03/13/2020
REVISION DESCRIPTION: PERMIT SET - REV. 1
DATE: 02/19/2020
REVISION DESCRIPTION: PERMIT SET

PAGE SIZE: 36" x 24"
PROJECT #: PPE 00083

PLT DATE: 7/13/2020 9:09 AM
 RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



MODULE LEGEND

| | |
|--|---------------------|
| | CANADIAN SOLAR 360W |
| | CANADIAN SOLAR 400W |

| | | | | | |
|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| REVISION DESCRIPTION | DATE | DATE | DATE | DATE | DATE |
| | | | | | |
| DATE | DATE | DATE | DATE | DATE | DATE |
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| PERMIT SET - REV. 1 | PERMIT SET - REV. 1 | PERMIT SET - REV. 1 | PERMIT SET - REV. 1 | PERMIT SET - REV. 1 | PERMIT SET - REV. 1 |
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| AD | AD | AD | AD | AD | AD |
| RI | RI | RI | RI | RI | RI |
| RI | RI | RI | RI | RI | RI |

PURE POWER
 5 MARINE VIEW PLAZA, HOBOKEN, NJ
 WWW.PUREPOWER.COM
 RICHARD A. TONIN
 CT LICENSE NO. 03829282

GREENSKIES
 180 JOHNSON STREET,
 MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM

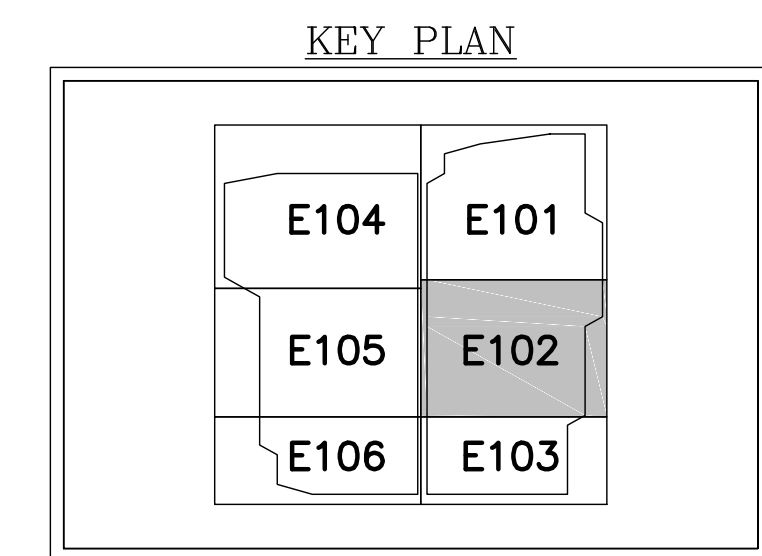
DEVELOPER
 Greenskies
 a Clean Focus company

PAGE SIZE
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PROJECT #
 PPE 00083

DC SYSTEM SIZE: 6095.440 kW
 AC SYSTEM SIZE: 4980.000 kW
 MODULE TYPE: CANADIAN 360W/400W
 MODULE QUANTITY: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH

PROJECT
 6095.440 KW GROUND MOUNT SYSTEM AT
 STONINGTON TAUGWONK
 35 TAUGWONK SPUR ROAD
 STONINGTON, CT 06378

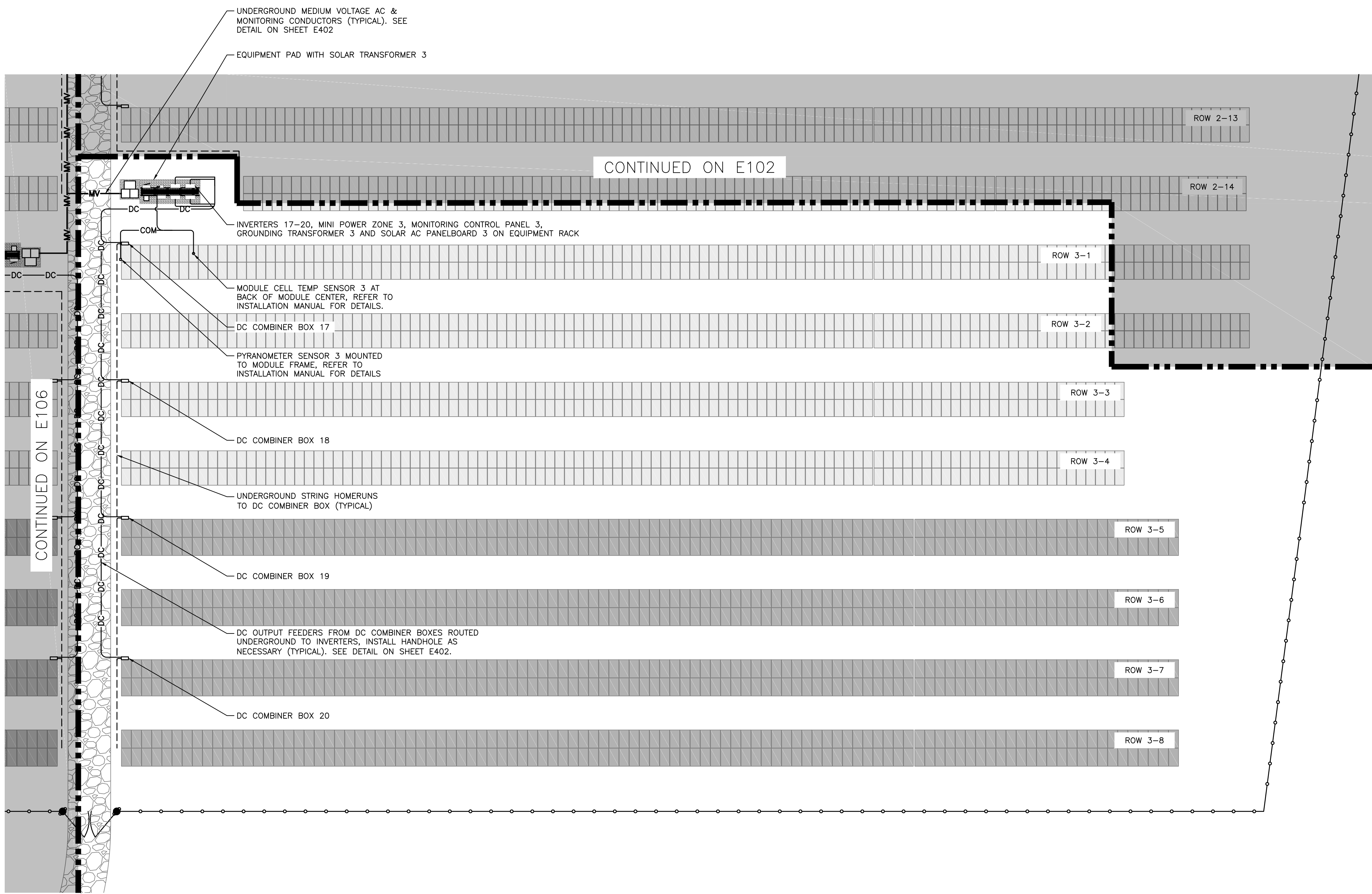


1 PARTIAL ELECTRICAL PLAN - SYSTEM 2
 E102 SCALE: 1" = 20'-0"

DRAWING TITLE
 PARTIAL ELECTRICAL PLAN
 - SYSTEM 2

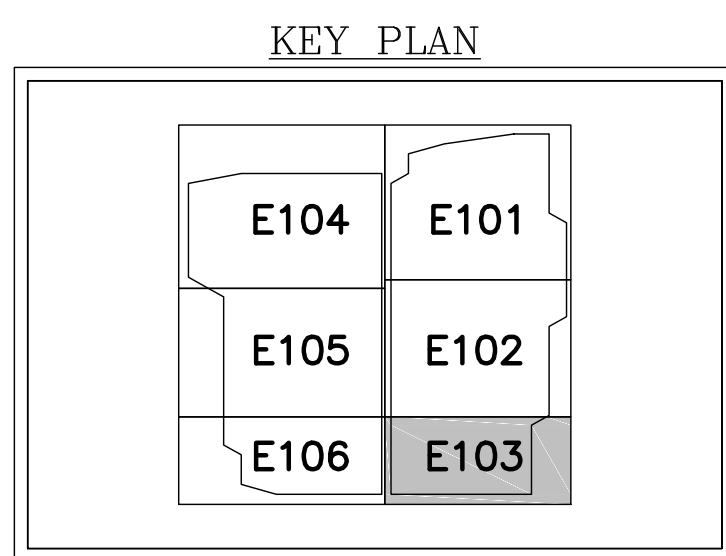
DRAWING #
 E102

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



MODULE LEGEND

| | |
|--|---------------------|
| | CANADIAN SOLAR 360W |
| | CANADIAN SOLAR 400W |



1 PARTIAL ELECTRICAL PLAN - SYSTEM 3
 E103 SCALE: 1" = 20'-0"



DRAWING TITLE
 PARTIAL ELECTRICAL PLAN - SYSTEM 3

DRAWING #
 E103

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK, 35 TAUGWONK SPUR ROAD, STONINGTON, CT 06378

DC SYSTEM SIZE: 6095.440 KW
 AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN 360W/400W
 MODULE QUANTITY: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH

PAGE SIZE: 36" x 24"
 PROJECT #: PPE 00083

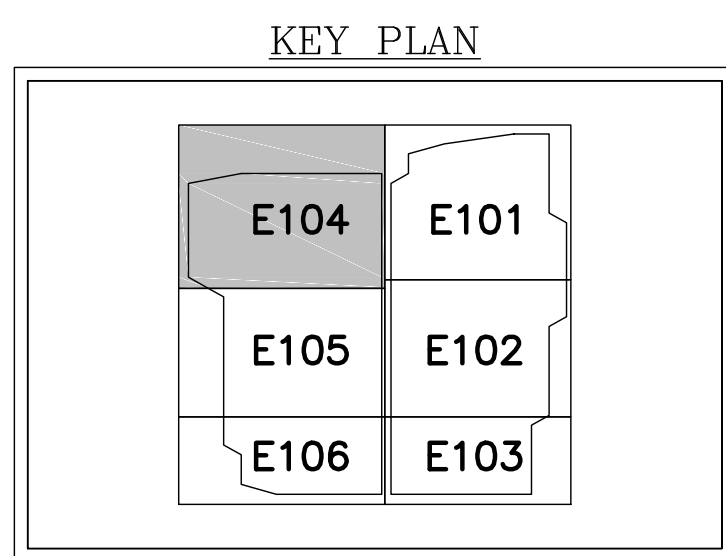
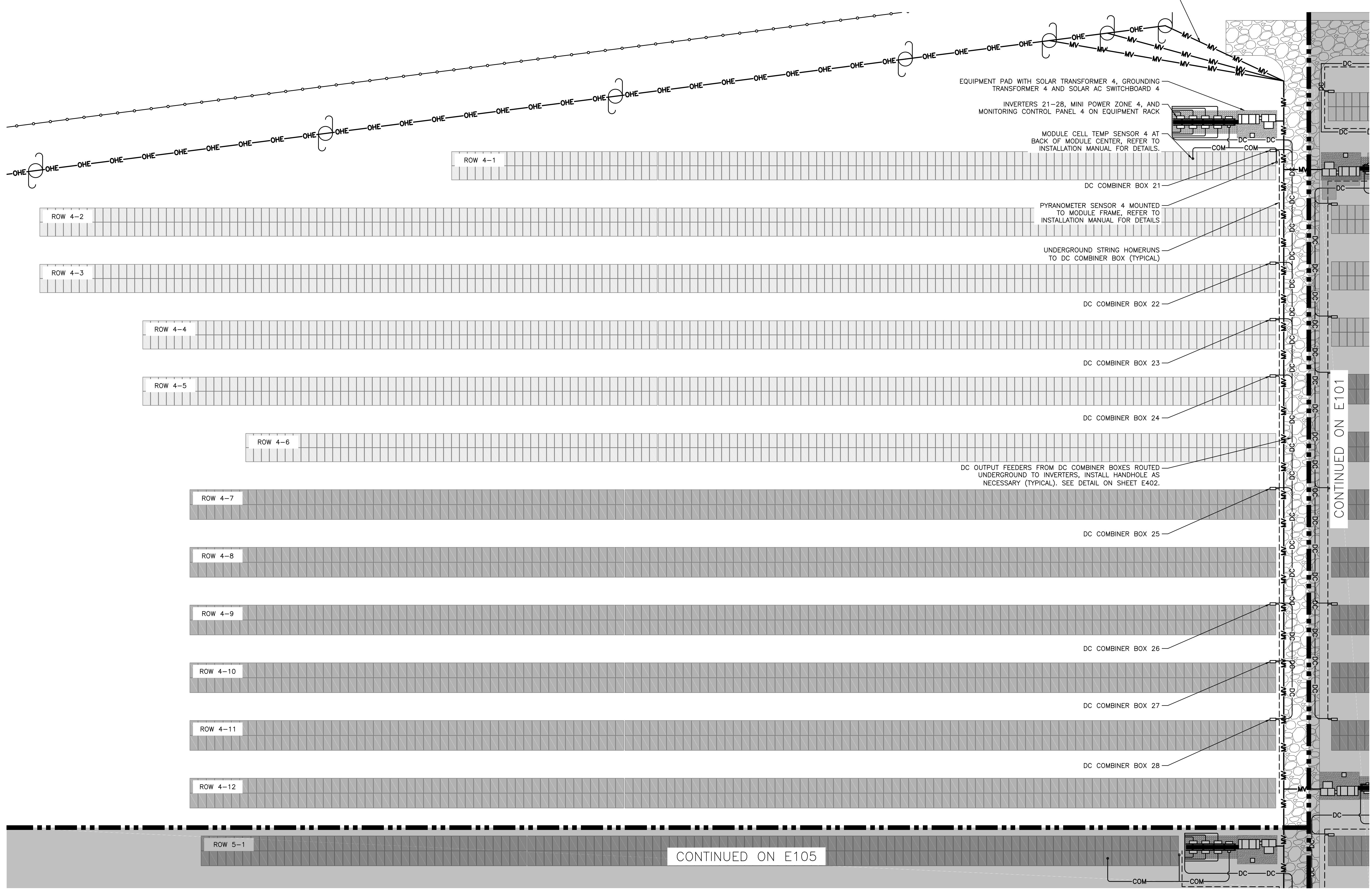
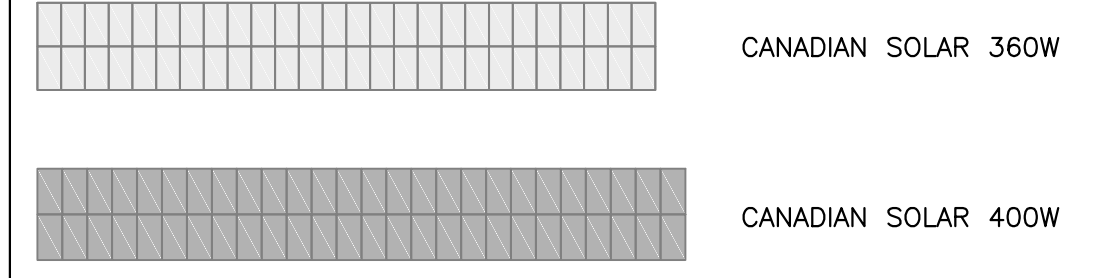
DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM

PURE POWER ENERGY SOLUTIONS
 5 MARINE VIEW PLAZA, HOBOKEN, NJ
 WWW.PUREPOWER.COM
 RICHARD A. VONDERHEIM, P.E.
 CT LICENSE NO. 0382982

DATE: 03/13/2020
 REVISION DESCRIPTION: PERMIT SET - REV. 1
 DATE: 02/19/2020
 REVISION DESCRIPTION: PERMIT SET

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
PLG DATE: 7/13/2020 9:09 AM

MODULE LEGEND



1 PARTIAL ELECTRICAL PLAN - SYSTEM 4
 E104 SCALE: 1" = 20'-0"



DRAWING TITLE
 PARTIAL ELECTRICAL PLAN - SYSTEM 4

DRAWING #
 E104

| | | | | |
|------------|----------------------|----|------|-----|
| DATE | REVISION DESCRIPTION | PM | LENG | CHK |
| 03/13/2020 | PERMIT SET - REV. 1 | BJ | AD | RI |
| 02/19/2020 | PERMIT SET | BJ | AD | RI |



 5 MARINE VIEW PLAZA, HOBOKEN, NJ
 WWW.PUREPOWER.COM
 RICHARD A. TONIN
 CT LICENSE NO. 03029282



 180 JOHNSON STREET,
 MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM
 a Clean Focus company

DEVELOPER
 GREENSKIES
 a Clean Focus company

PAGE SIZE
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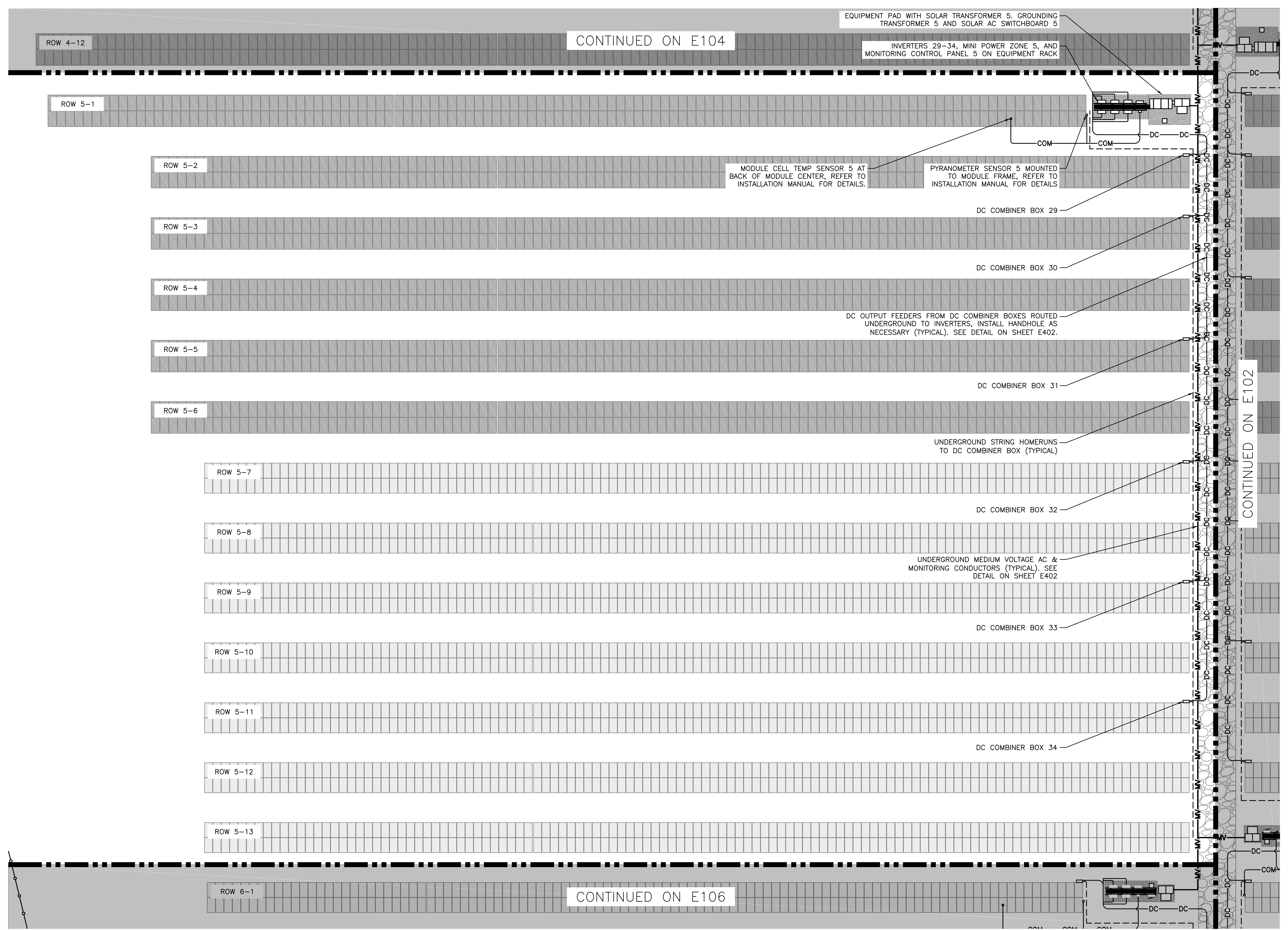
PROJECT #
 PPE 00083

DC SYSTEM SIZE: 6095.440 kW
 AC SYSTEM SIZE: 4980.000 kW
 MODULE TYPE: CANADIAN 360W/400W
 ORIENTATION: 8294/7774
 25° TILT, 0° AZIMUTH

PROJECT
 6095.440 KW GROUND MOUNT SYSTEM AT
 STONINGTON TAUGWONK
 35 TAUGWONK SPUR ROAD
 STONINGTON, CT 06378

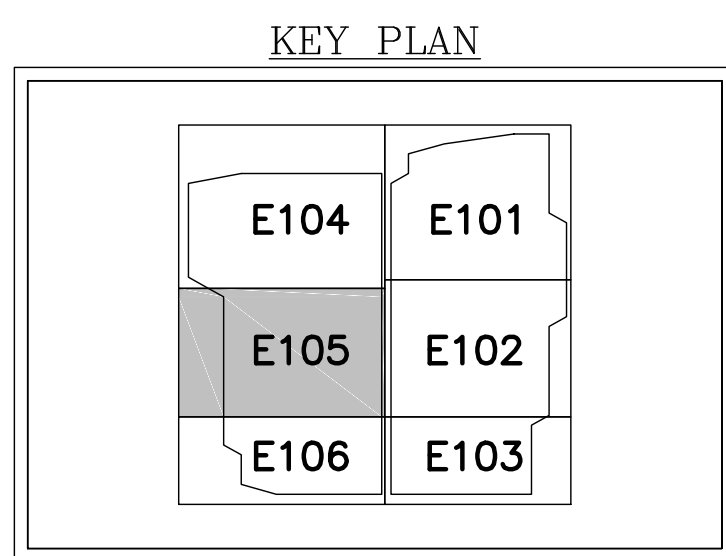
RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 7/13/2020 9:09 AM



MODULE LEGEND

| | |
|--|---------------------|
| | CANADIAN SOLAR 360W |
| | CANADIAN SOLAR 400W |



1 PARTIAL ELECTRICAL PLAN - SYSTEM 5
 E105 SCALE: 1" = 20'-0"



DRAWING TITLE
 PARTIAL ELECTRICAL PLAN - SYSTEM 5

DRAWING #
 E105

REVISION DESCRIPTION DATE DATE

| | | | |
|--|--|--|--|
| | | | |
| | | | |

PERMIT SET - REV. 1 03/13/2020

PERMIT SET 02/19/2020

DEVELOPER
Greenskies
 a Clean Focus company
 180 JOHNSON STREET,
 MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM

PROJECT
 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK
 35 TAUGWONK SPUR ROAD
 STONINGTON, CT 06378

PAGE SIZE
 36" x 24"

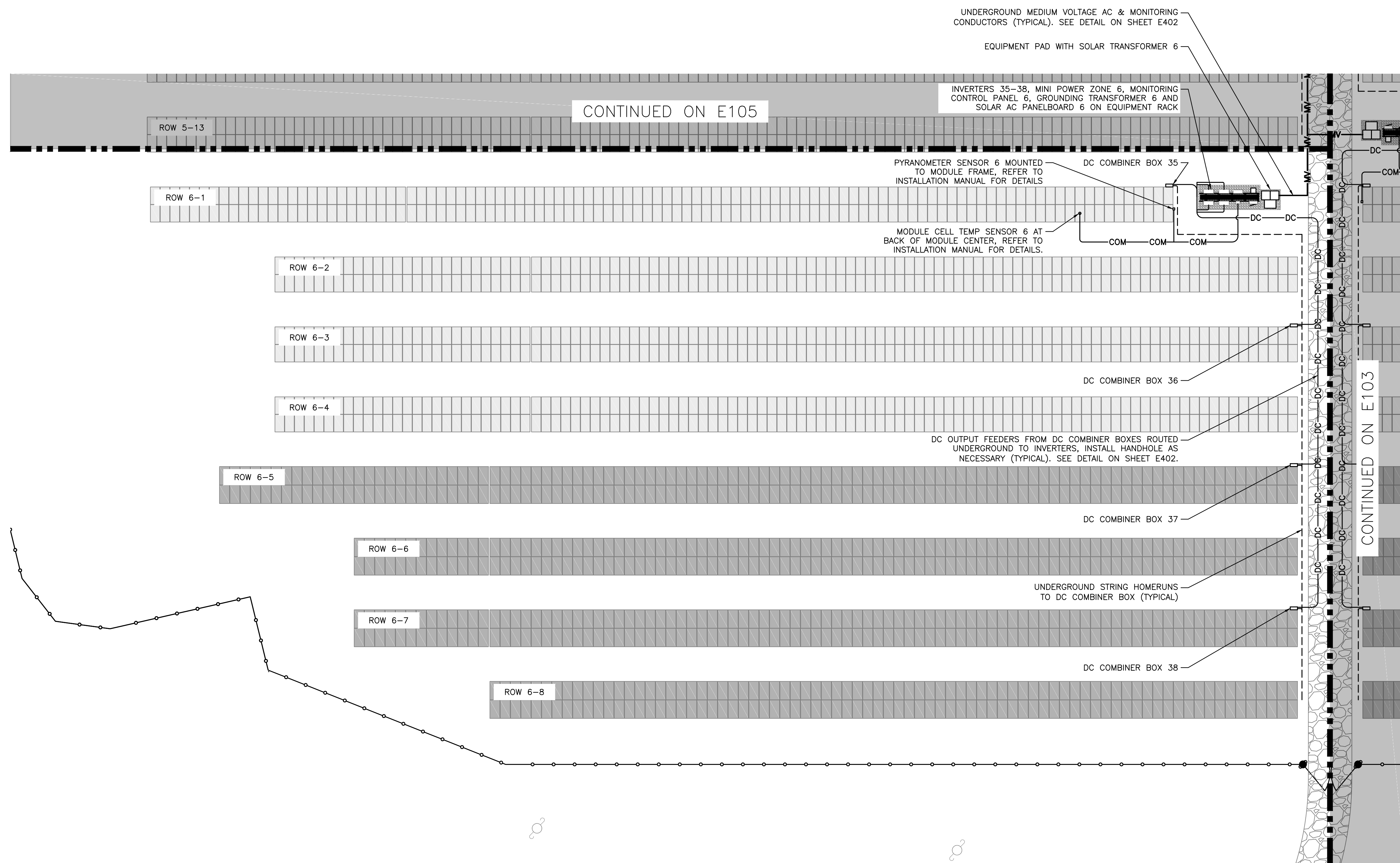
PROJECT #
 PPE 00083

DC SYSTEM SIZE: 6095.440 KW
 AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN 360W/400W
 MODULE QUANTITY: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH

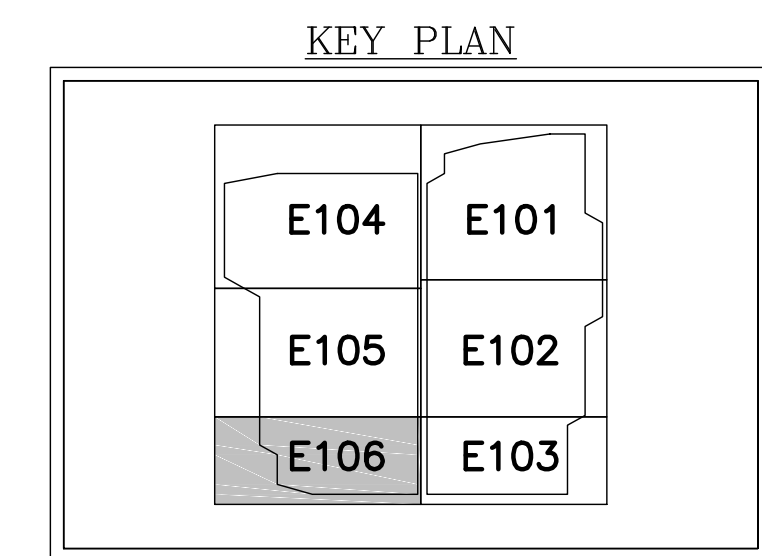
PURE POWER ENERGY SOLUTIONS
 5 MARINE VIEW PLAZA - HOBOKEN, NJ
 WWW.PUREPOWER.COM
 RICHARD A. TUNNEY
 CT LICENSE NO. 0382982

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 7/13/2020 9:09 AM



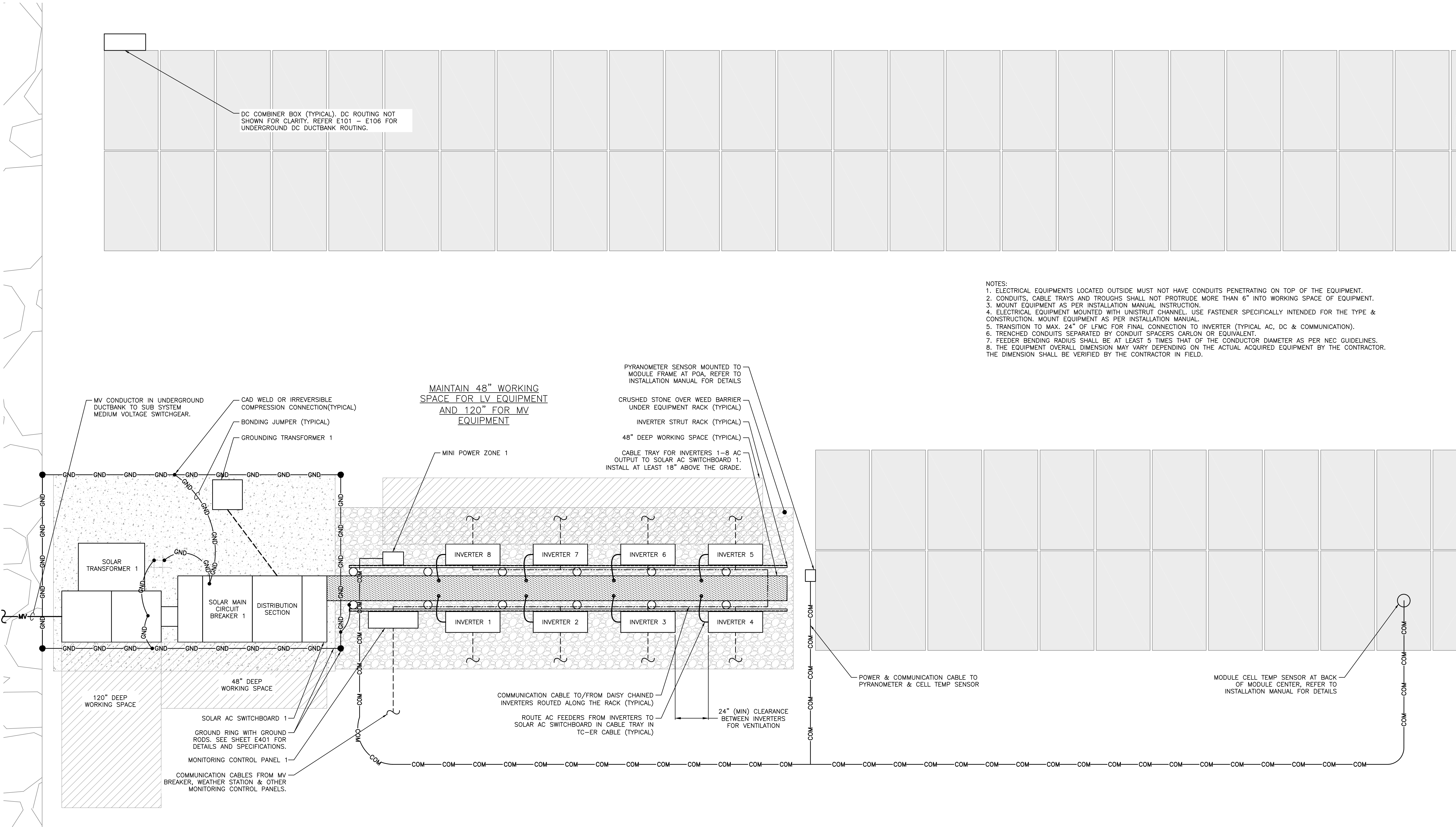
| MODULE LEGEND | |
|---------------|---------------------|
| | CANADIAN SOLAR 360W |
| | CANADIAN SOLAR 400W |



1 PARTIAL ELECTRICAL PLAN - SYSTEM 6
E106 SCALE: 1" = 20'-0"

| | | | | | |
|---|---|---|---|---|---|
| <p>DATE: 03/13/2020</p> <p>REVISION DESCRIPTION: PERMIT SET - REV. 1</p> | <p>DATE: 02/19/2020</p> <p>REVISION DESCRIPTION: PERMIT SET</p> | <p>DATE: 02/19/2020</p> <p>REVISION DESCRIPTION: PERMIT SET</p> | <p>DATE: 02/19/2020</p> <p>REVISION DESCRIPTION: PERMIT SET</p> | <p>DATE: 02/19/2020</p> <p>REVISION DESCRIPTION: PERMIT SET</p> | <p>DATE: 02/19/2020</p> <p>REVISION DESCRIPTION: PERMIT SET</p> |
| | | | | | |
| <p>PURE POWER <small>5 MARINE VIEW PLAZA - HOBOKEN, NJ WWW.PUREPOWER.COM RICHARD A. TONN CT LICENSE NO. 03829282</small></p> | | | | | |
| <p>GREENSKIES <small>180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM</small></p> | | | | | |
| <p>Greenskies <small>a Clean Focus company</small></p> | | | | | |
| <p>DEVELOPER: GREENSKIES</p> | | | | | |
| <p>PAGE SIZE: 36" x 24"</p> | | | | | |
| <p>PROJECT #: PPE 00083</p> | | | | | |
| <p>DC SYSTEM SIZE: 6095.440 KW AC SYSTEM SIZE: 4980.000 KW MODULE TYPE: CANADIAN 360W/400W MODULE QUANTITY: 8294/7774 ORIENTATION: 25° TILT, 0° AZIMUTH</p> | | | | | |
| <p>PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378</p> | | | | | |
| <p>DRAWING TITLE: PARTIAL ELECTRICAL PLAN - SYSTEM 6</p> | | | | | <p>DRAWING #: E106</p> |

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



- NOTES:
1. ELECTRICAL EQUIPMENTS LOCATED OUTSIDE MUST NOT HAVE CONDUITS PENETRATING ON TOP OF THE EQUIPMENT.
 2. CONDUITS, CABLE TRAYS AND TROUGHS SHALL NOT PROTRUDE MORE THAN 6" INTO WORKING SPACE OF EQUIPMENT.
 3. MOUNT EQUIPMENT AS PER INSTALLATION MANUAL INSTRUCTION.
 4. ELECTRICAL EQUIPMENT MOUNTED WITH UNISTRUT CHANNEL. USE FASTENER SPECIFICALLY INTENDED FOR THE TYPE & CONSTRUCTION. MOUNT EQUIPMENT AS PER INSTALLATION MANUAL.
 5. TRANSITION TO MAX. 24" OF LFC FOR FINAL CONNECTION TO INVERTER (TYPICAL AC, DC & COMMUNICATION).
 6. TRENCHED CONDUITS SEPARATED BY CONDUIT SPACERS CARLON OR EQUIVALENT.
 7. FEEDER BENDING RADIUS SHALL BE AT LEAST 5 TIMES THAT OF THE CONDUCTOR DIAMETER AS PER NEC GUIDELINES.
 8. THE EQUIPMENT OVERALL DIMENSION MAY VARY DEPENDING ON THE ACTUAL ACQUIRED EQUIPMENT BY THE CONTRACTOR. THE DIMENSION SHALL BE VERIFIED BY THE CONTRACTOR IN FIELD.

1 TYPICAL INVERTER & ELECTRICAL EQUIPMENT PLAN
 E107 SCALE: 3/8" = 1'-0"

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378

DC SYSTEM SIZE: 6095.440 KW
 AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN 360W/400W
 MODULE QUANTITY: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH

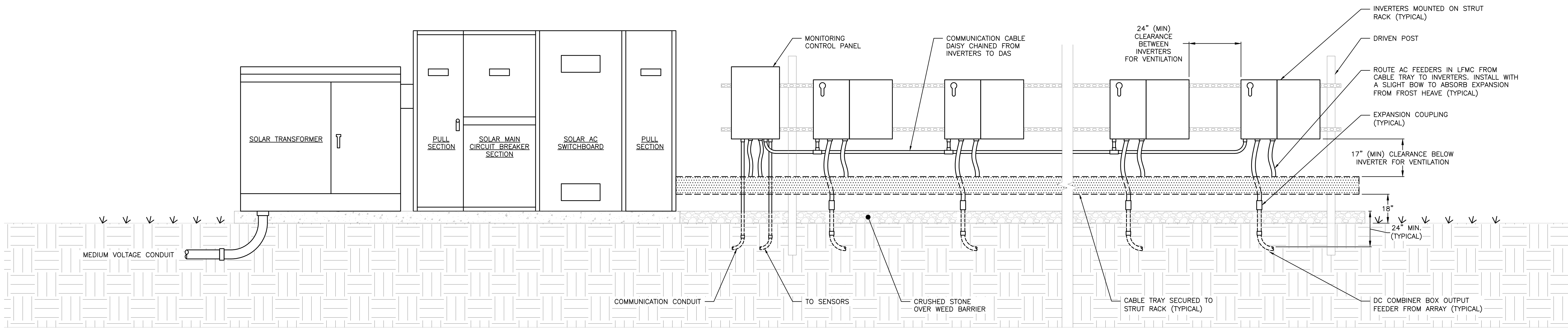
DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM

PAGE SIZE: 36" x 24"
 PROJECT #: 00083
 PPE: 00083

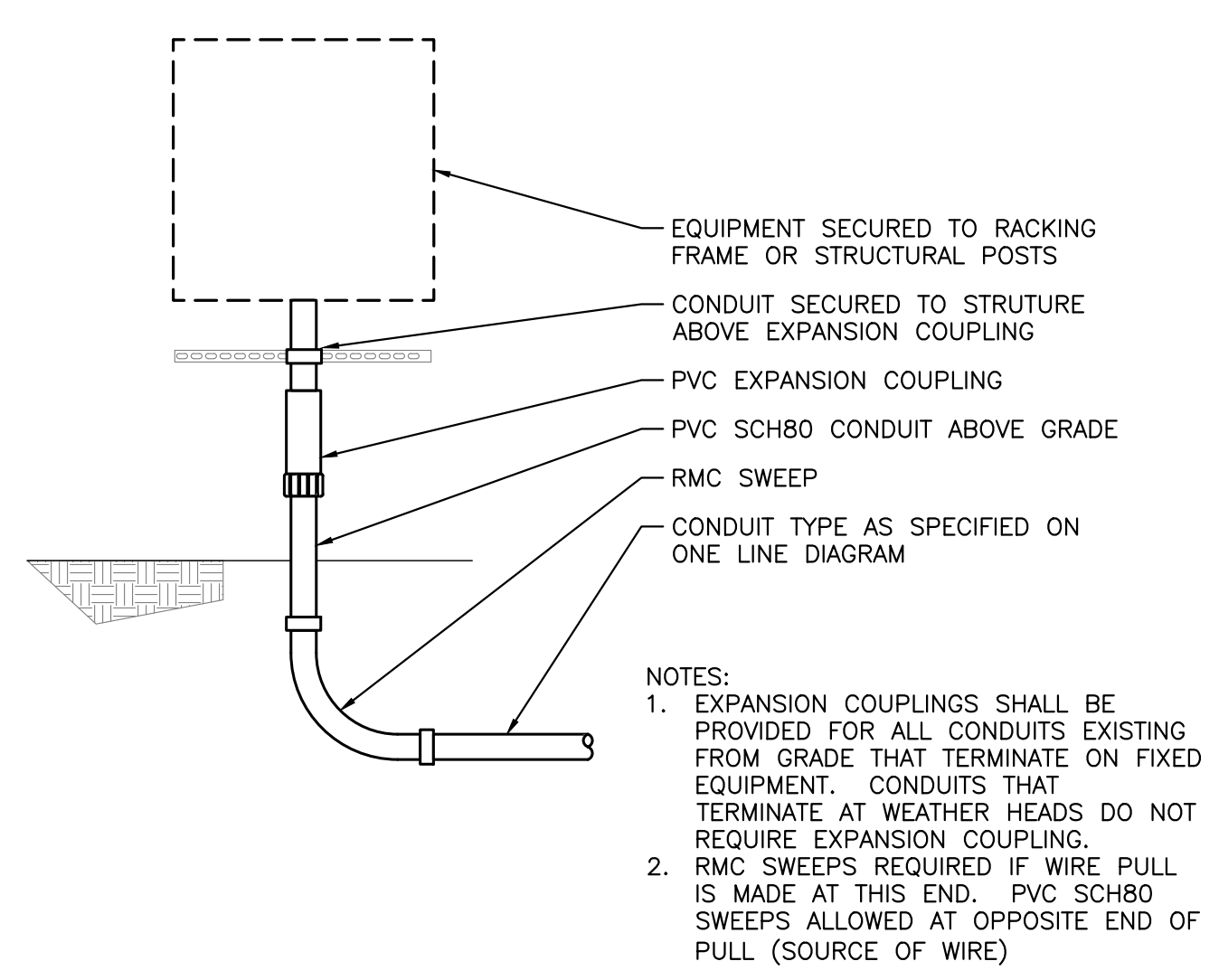
DATE: 03/13/2020
 REVISION DESCRIPTION: PERMIT SET - REV. 1
 DATE: 02/19/2020
 REVISION DESCRIPTION: PERMIT SET

PURE POWER ENGINEERING INC.
 5 MARINE VIEW PLAZA - HOBOKEN, NJ
 WWW.PUREPOWER.COM
 RICHARD A. UNTER
 CT LICENSE NO. 03029282

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

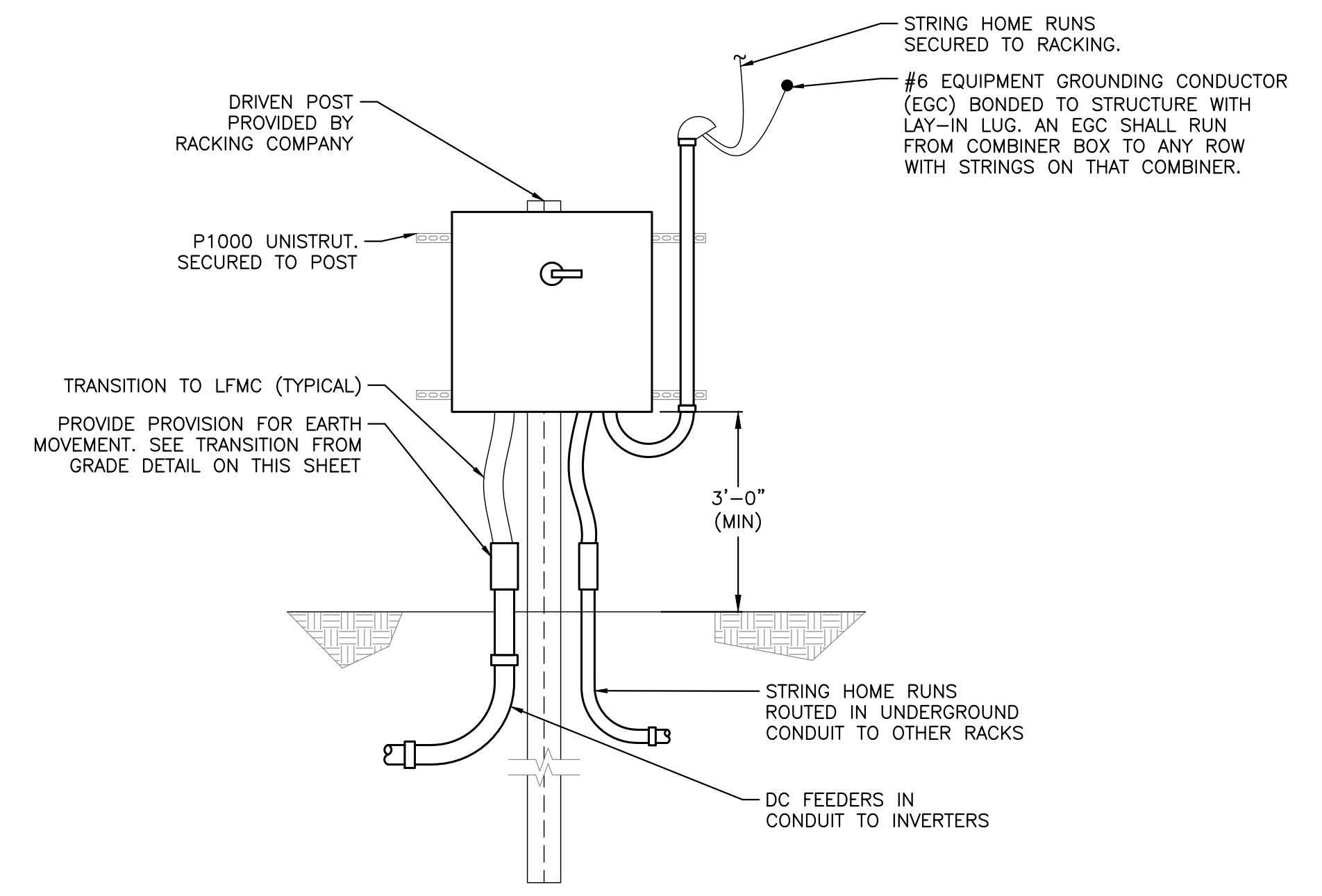


1 TYPICAL ELECTRICAL EQUIPMENT AREA ELEVATION
E108 SCALE: 1/2" = 1'-0"



- NOTES:
- EXPANSION COUPLINGS SHALL BE PROVIDED FOR ALL CONDUITS EXISTING FROM GRADE THAT TERMINATE ON FIXED EQUIPMENT. CONDUITS THAT TERMINATE AT WEATHER HEADS DO NOT REQUIRE EXPANSION COUPLING.
 - RMC SWEEPS REQUIRED IF WIRE PULL IS MADE AT THIS END. PVC SCH80 SWEEPS ALLOWED AT OPPOSITE END OF PULL (SOURCE OF WIRE)

2 TYPICAL CONDUIT TRANSITION ABOVE GRADE
E108 SCALE: 1/2" = 1'-0"



3 TYPICAL COMBINER BOX ELEVATION - FRONT VIEW
E108 SCALE: 1/2" = 1'-0"

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378

DC SYSTEM SIZE: 6095.440 KW
AC SYSTEM SIZE: 4980.000 KW
MODULE TYPE: CANADIAN 360W/400W
MODULE QUANTITY: 8294/7774
ORIENTATION: 25° TILT, 0° AZIMUTH

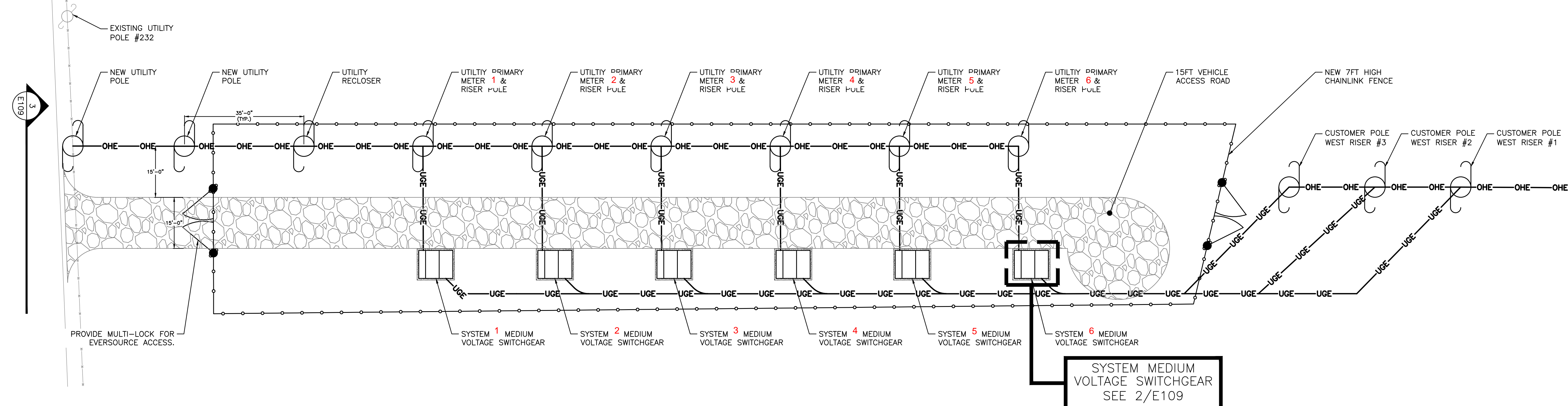
DEVELOPER: Greenskies a Clean Focus company
180 JOHNSON STREET, MIDDLETOWN, CT 06457
WWW.GREENSKIES.COM

PAGE SIZE: 36" x 24"
PROJECT #: PPE 00083

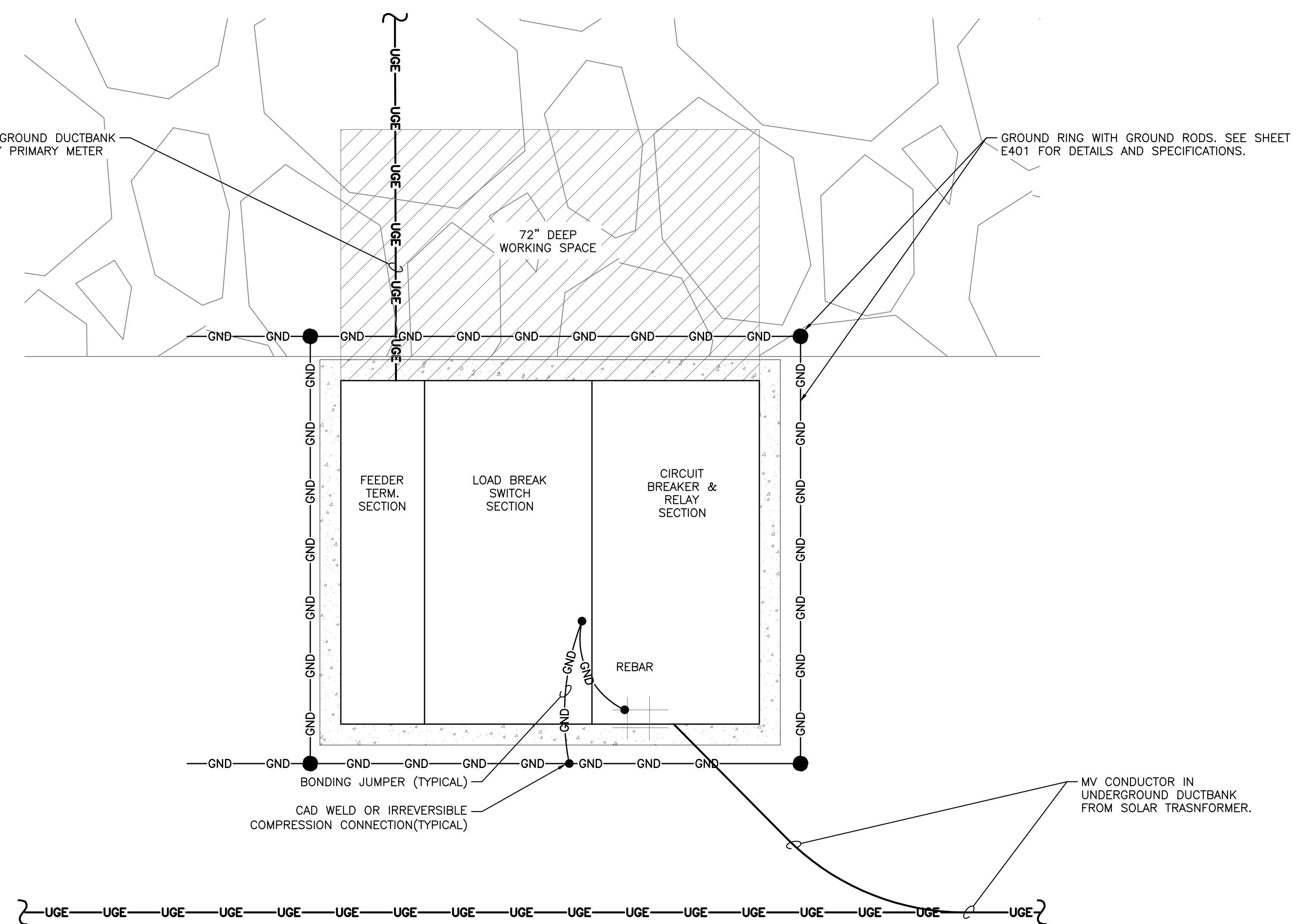
DATE: 03/13/2020
REVISION DESCRIPTION: PERMIT SET - REV. 1
DATE: 02/19/2020
REVISION DESCRIPTION: PERMIT SET

PURE POWER ENERGY SOLUTIONS
5 MARINE VIEW PLAZA, HOBOKEN, NJ
WWW.PUREPOWER.COM
RICHARD A. VONDERHEID
CT LICENSE NO. 03029262

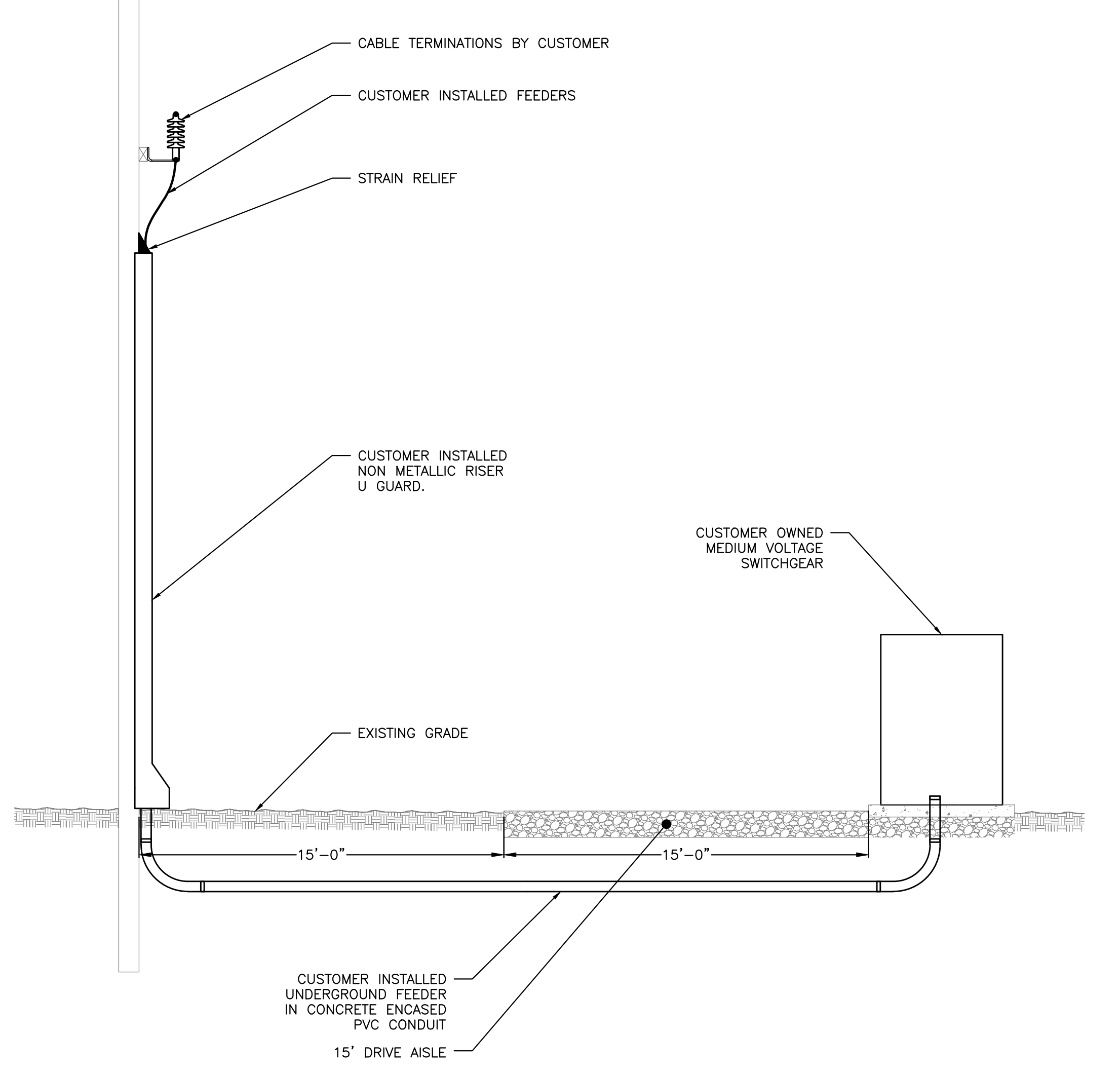
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1 MEDIUM VOLTAGE EQUIPMENT AREA
E109 SCALE: 1/16" = 1'-0"



2 SYSTEM MEDIUM VOLTAGE PLAN (TYPICAL)
E109 SCALE: 1/2" = 1'-0"



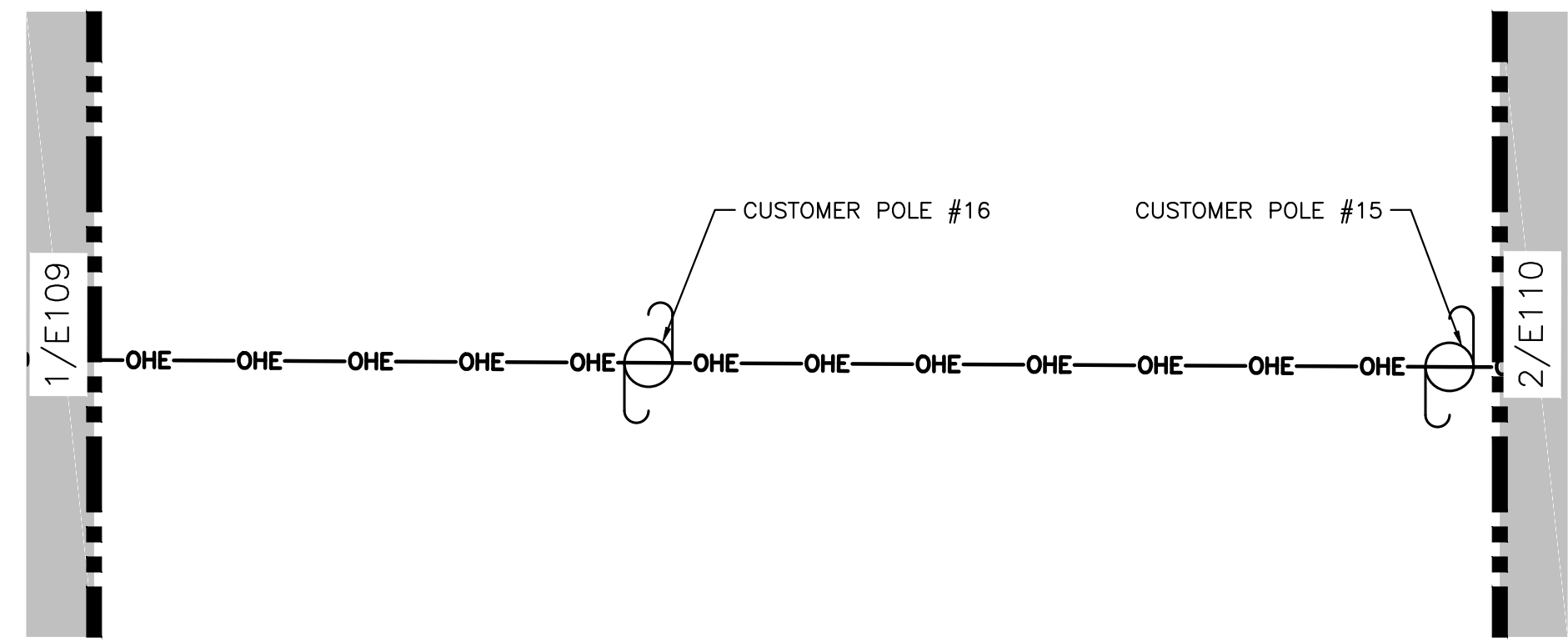
3 MV EQUIPMENT ELEVATION
E109 SCALE: 1/2" = 1'-0"

DRAWING TITLE
MEDIUM VOLTAGE EQUIPMENT PLAN

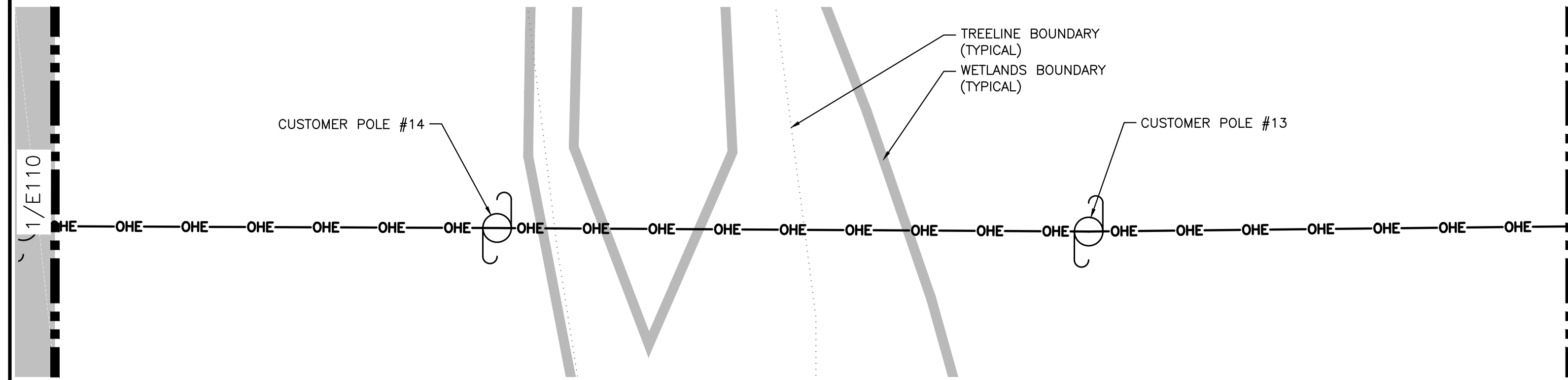
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|---|---|---|
| <p>Greenskies a Clean Focus company</p> <p>DEVELOPER</p> <p>180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM</p> | <p>DATE: 07/10/2020</p> <p>ISSUE FOR CONSTRUCTION</p> | <p>REVISION DESCRIPTION</p> <p>PM LENG CHK</p> |
| | <p>DATE: 04/23/2020</p> <p>PERMIT SET - REV. 3</p> | <p>DATE: 04/23/2020</p> <p>PERMIT SET - REV. 2</p> |
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| <p>PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378</p> | <p>PAGE SIZE: 36" x 24"</p> <p>PROJECT #: PPE 00083</p> | <p>DC SYSTEM SIZE: 6095.440 KW</p> <p>AC SYSTEM SIZE: 4980.000 KW</p> <p>MODULE TYPE: CANADIAN 360W/400W</p> <p>MODULE QUANTITY: 8294/7774</p> <p>ORIENTATION: 25° TILT, 0° AZIMUTH</p> |
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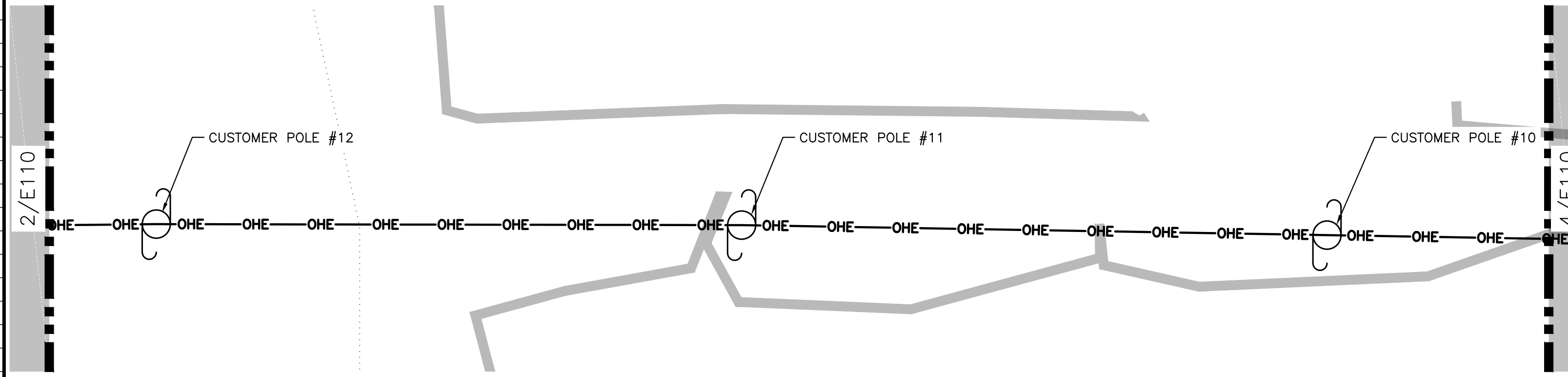
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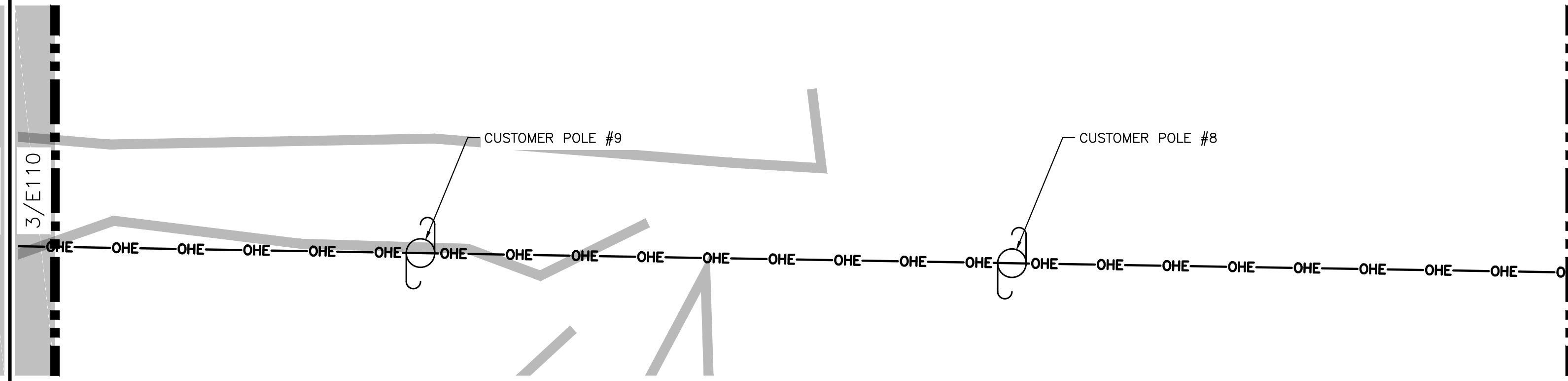
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E110 SCALE: 1" = 20'-0"



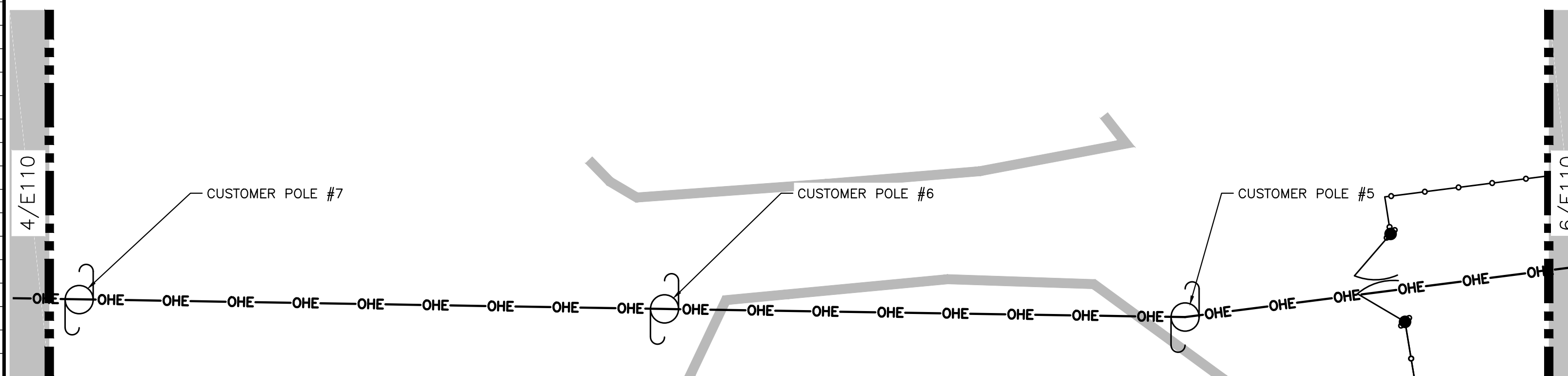
2 POLE LINE DETAIL 2
E110 SCALE: 1" = 20'-0"



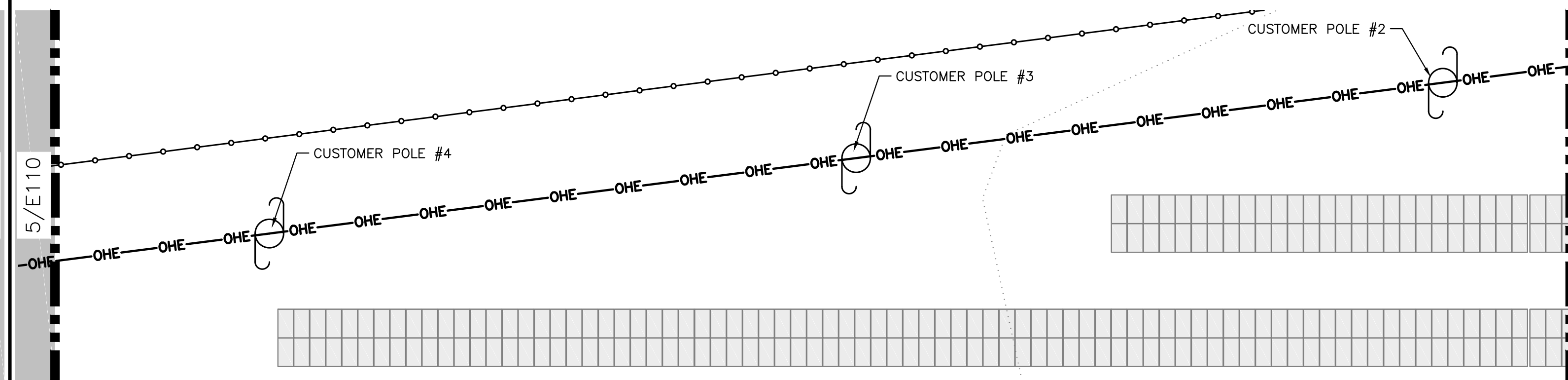
3 POLE LINE DETAIL 3
E110 SCALE: 1" = 20'-0"



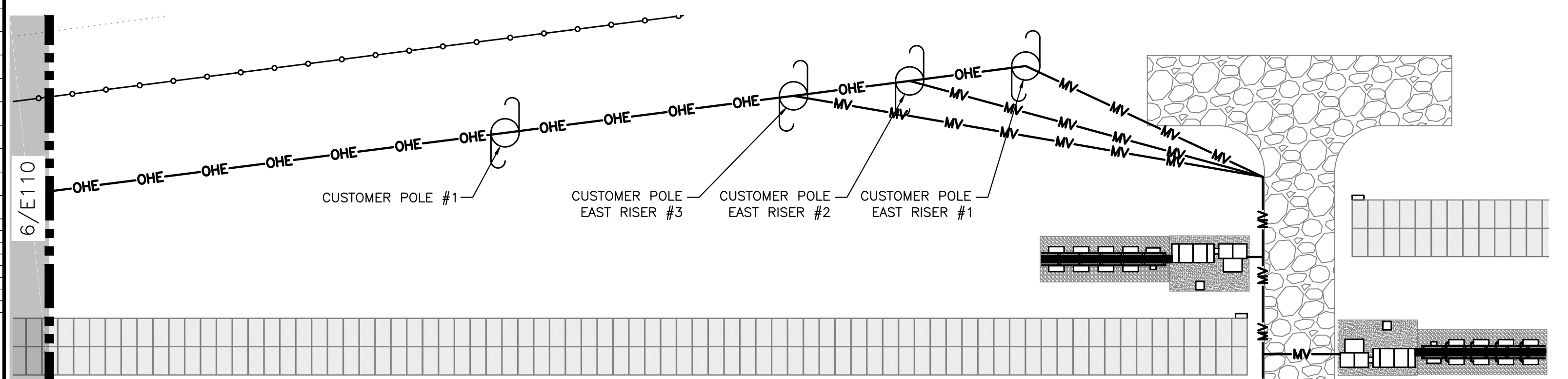
4 POLE LINE DETAIL 4
E110 SCALE: 1" = 20'-0"



5 POLE LINE DETAIL 5
E110 SCALE: 1" = 20'-0"



6 POLE LINE DETAIL 6
E110 SCALE: 1" = 20'-0"



7 POLE LINE DETAIL 7
E110 SCALE: 1" = 20'-0"

| | | | | | | |
|----------------------|------------|------------------------|------------|--------------------|------------|--------------------|
| DATE | 07/10/2020 | ISSUE FOR CONSTRUCTION | 04/03/2020 | PERMIT SET - REV 2 | 03/13/2020 | PERMIT SET - REV 1 |
| REVISION DESCRIPTION | | | | | | |
| PM | LENG | CHK | | | | |
| BK | AD | RI | | | | |
| BK | AD | RI | | | | |
| BK | AD | RI | | | | |
| BK | AD | RI | | | | |

PURE POWER
PURE POWER ENERGY SERVICES, INC.
5 MARINE VIEW PLAZA, HOBOKEN, NJ
WWW.PUREPOWER.COM
RICHARD A. TONIN
CT LICENSE NO. 03829282

GREENSKIES
180 JOHNSON STREET,
MIDDLETOWN, CT 06457
WWW.GREENSKIES.COM

GREENSKIES
a Clean Focus company

DEVELOPER
PROJECT #
PPE 00083

PAGE SIZE
3.6" x 24"

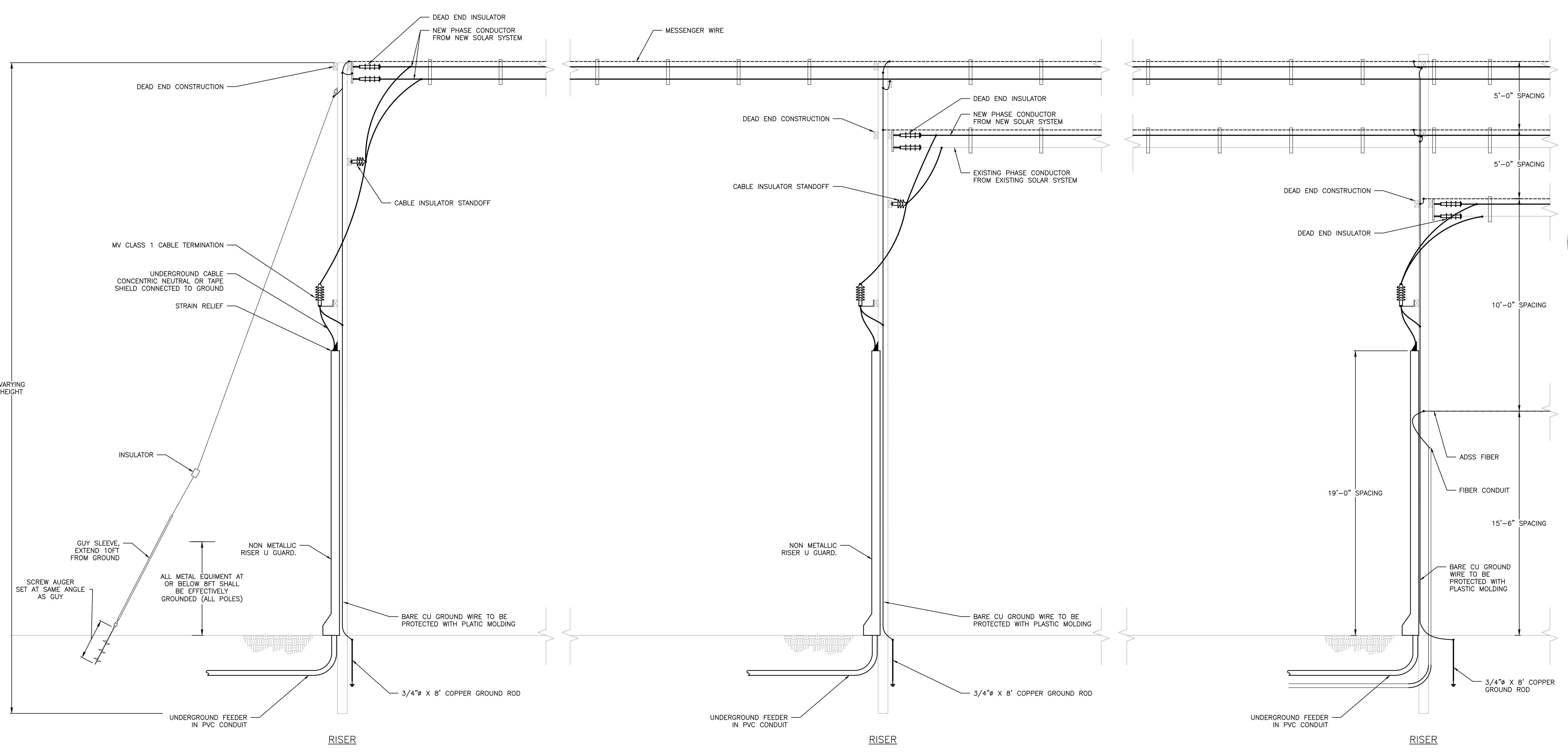
DC SYSTEM SIZE: 6095.440 KW
AC SYSTEM SIZE: 4980.000 KW
MODULE TYPE: CANADIAN 360W/400W
MODULE QUANTITY: 8294/7774
ORIENTATION: 25° TILT, 0° AZIMUTH

PROJECT
6095.440 KW GROUND MOUNT SYSTEM AT
STONINGTON TAUGWONK
35 TAUGWONK SPUR ROAD
STONINGTON, CT 06378

DRAWING #
E110

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 7/13/2020 9:10 AM



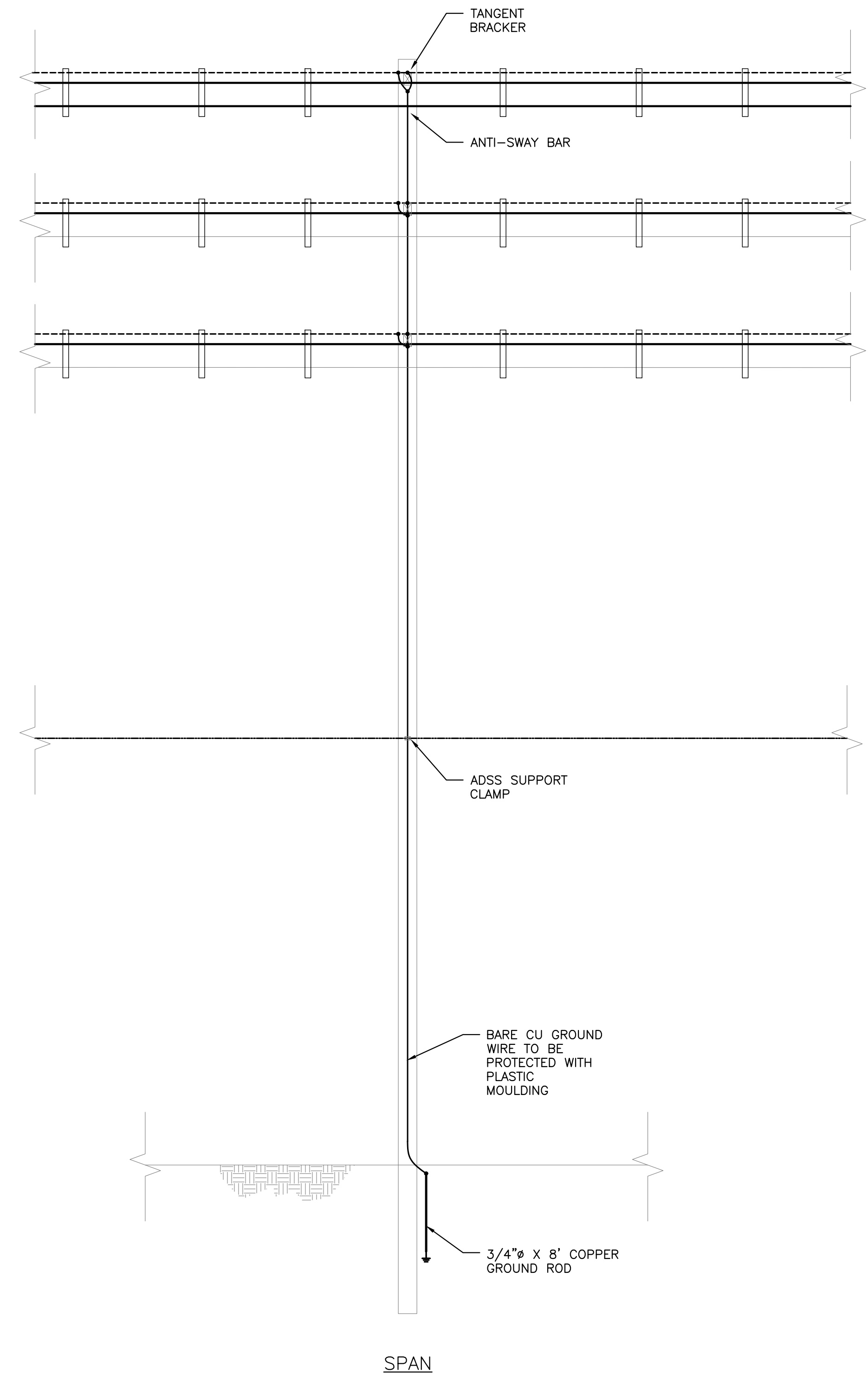
1 TYPICAL RISER POLE DETAILS
E111 SCALE: NONE

DRAWING TITLE
TYPICAL RISER POLE DETAILS

| | | | |
|------------------|---|---|-------------------------------------|
| PROJECT | 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378 | DRAWING # | E111 |
| DC SYSTEM SIZE: | 6095.440 KW | PAGE SIZE | 3.6" x 24" |
| AC SYSTEM SIZE: | 4980.000 KW | PROJECT # | PPE 00083 |
| MODULE TYPE: | CANADIAN 360W/400W | DEVELOPER | Greenskies a Clean Focus company |
| MODULE QUANTITY: | 8294/7774 | 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM | GREENSKIES |
| ORIENTATION: | 25° TILT, 0° AZIMUTH | 5 MARINE VIEW PLAZA, HOBOKEN, NJ WWW.PUREPOWER.COM RICHARD A. VONDERHEID, P.E. CT LICENSE NO. 03629262 | PURE POWER |
| | | DATE | 07/10/2020 |
| | | REVISION DESCRIPTION | ISSUE FOR CONSTRUCTION |
| | | | POLE LINE DETAILS |
| | | | PM TENG CHK |
| | | | BY AD RI |
| | | | BY BR RI |

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 7/13/2020 9:10 AM

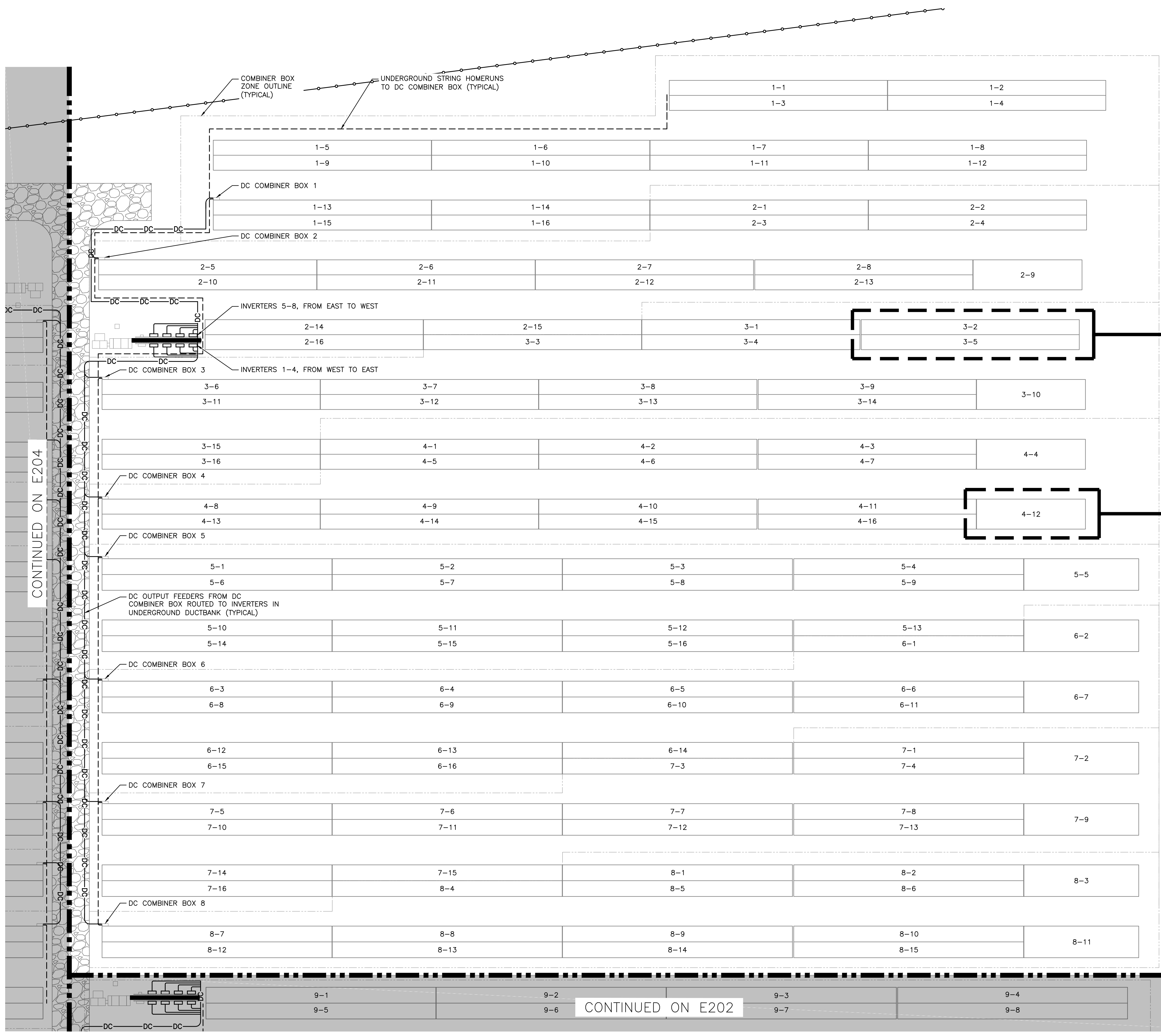


1 TYPICAL SPAN POLE DETAIL
E112 SCALE: NONE

| | |
|--------------------------|-----------|
| DRAWING TITLE | DRAWING # |
| TYPICAL SPAN POLE DETAIL | E112 |

| | | | | | | | | | | | |
|-----------|---|--|-----------|---|---|---|------|------------|----------------------|------------------------|----------------|
| PROJECT | 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378 | DC SYSTEM SIZE: 6095.440 KW AC SYSTEM SIZE: 4980.000 KW MODULE TYPE: CANADIAN 360W/400W MODULE QUANTITY: 8294/7774 ORIENTATION: 25° TILT, 0° AZIMUTH | DEVELOPER | Greenskies a Clean Focus company 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM |  |  | DATE | 07/10/2020 | REVISION DESCRIPTION | ISSUE FOR CONSTRUCTION | PM / ENG / CHK |
| PAGE SIZE | 3.6" x 24" | PROJECT # | PPE 00083 | | | | | | | | |

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

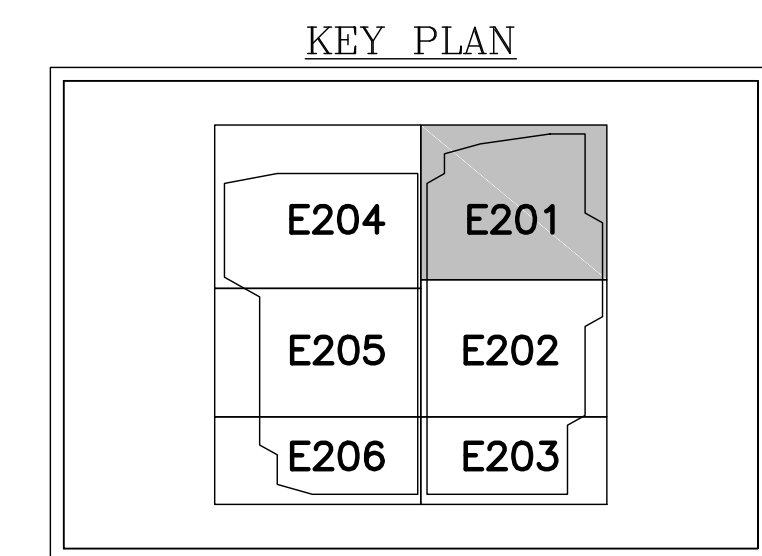


| CONDUIT FILL TABLE | | |
|---|---------------------------------------|------------------------------------|
| MAXIMUM NUMBER OF CU #10 WIRES (PV WIRE + GROUND) | | |
| CONDUIT TRADE SIZE | CONDUIT LENGTH 24" OR LESS (60% FILL) | CONDUIT LENGTH OVER 24" (40% FILL) |
| 3/4" | 5 | 3 |
| 1" | 9 | 6 |
| 1.25" | 16 | 10 |
| 1.5" | 22 | 14 |
| 2" | 37 | 24 |
| 2.5" | 40 | 35 |
| 3" | 40 | 40 |
| 3.5" | 40 | 40 |
| 4" | 40 | 40 |

TABLE ASSUMING: PVC40 CONDUIT AND CU #10 PV WIRE WITH 0.26in O.D., 0.96 TEMP. DERATE
PV SOURCE CIRCUIT WITH 10.49A SHORT CIRCUIT CURRENT, 1 IN PARALLEL, AND 20A FUSES

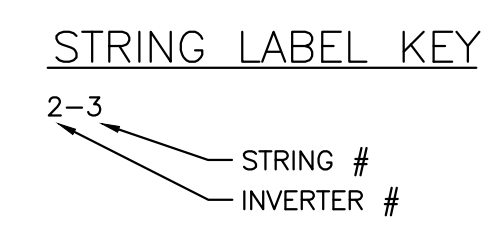
FULL ROW
INTERMODULE WIRING
DETAIL SEE 1/E206

HALF ROW
INTERMODULE WIRING
DETAIL SEE 2/E206



IMPORTANT
CONTRACTOR MUST REDLINE
DRAWINGS TO REFLECT EXACT
AS-BUILT STRINGING AND RETURN
TO PURE POWER.

1 PARTIAL DC ELECTRICAL PLAN - SYSTEM 1
E200 SCALE: 1" = 20'-0"

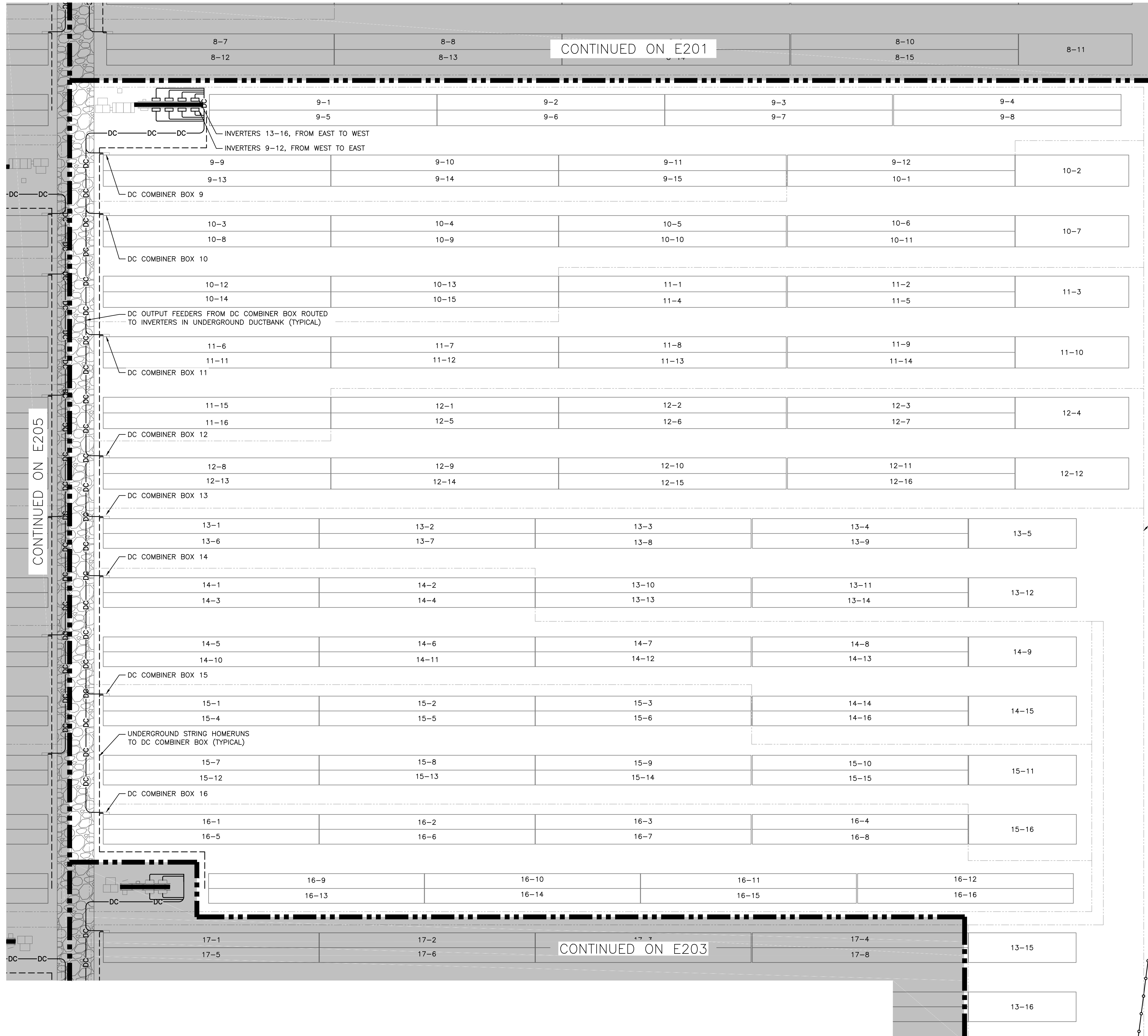


DRAWING TITLE
PARTIAL DC ELECTRICAL PLAN
- SYSTEM 1

DRAWING #
E200

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DC SYSTEM SIZE: 6095.440 KW
 AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN 360W/400W
 MODULE QUANTITY: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH
 DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM
 GREENSKIES
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF CONNECTICUT
 LICENSE NO. 30829282
 DATE: 03/13/2020
 PERMIT SET - REV. 1
 PERMIT SET
 REVISION DESCRIPTION: PM TENG CHK
 DATE: 02/19/2020
 BX AD RI
 BX AD RI

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

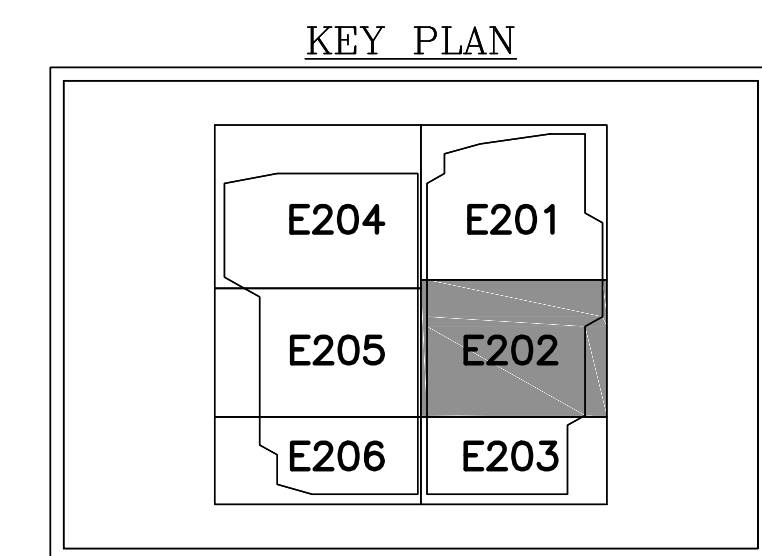


| CONDUIT FILL TABLE | | |
|---|---------------------------------------|------------------------------------|
| MAXIMUM NUMBER OF CU #10 WIRES (PV WIRE + GROUND) | | |
| CONDUIT TRADE SIZE | CONDUIT LENGTH 24" OR LESS (60% FILL) | CONDUIT LENGTH OVER 24" (40% FILL) |
| 3/4" | 5 | 3 |
| 1" | 9 | 6 |
| 1.25" | 16 | 10 |
| 1.5" | 22 | 14 |
| 2" | 37 | 24 |
| 2.5" | 40 | 35 |
| 3" | 40 | 40 |
| 3.5" | 40 | 40 |
| 4" | 40 | 40 |

TABLE ASSUMING: PVC40 CONDUIT AND CU #10 PV WIRE WITH 0.26in O.D., 0.96 TEMP. DERATE
PV SOURCE CIRCUIT WITH 10.49A SHORT CIRCUIT CURRENT, 1 IN PARALLEL, AND 20A FUSES

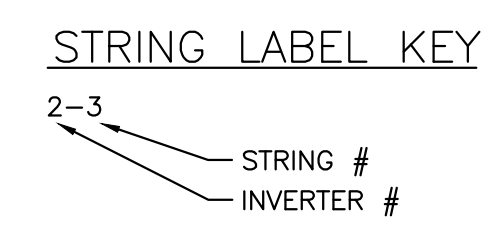
DATE: 03/13/2020
 REVISION DESCRIPTION: PERMIT SET - REV. 1
 DATE: 02/19/2020
 REVISION DESCRIPTION: PERMIT SET

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DC SYSTEM SIZE: 4980.000 KW
 AC SYSTEM SIZE: CANADIAN 360W/400W
 MODULE TYPE: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH
 DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM
 PAGE SIZE: 36" x 24"
 PROJECT #: PPE 00083



IMPORTANT
CONTRACTOR MUST REDLINE DRAWINGS TO REFLECT EXACT AS-BUILT STRINGING AND RETURN TO PURE POWER.

1 PARTIAL DC ELECTRICAL PLAN - SYSTEM 2
E201 SCALE: 1" = 20'-0"

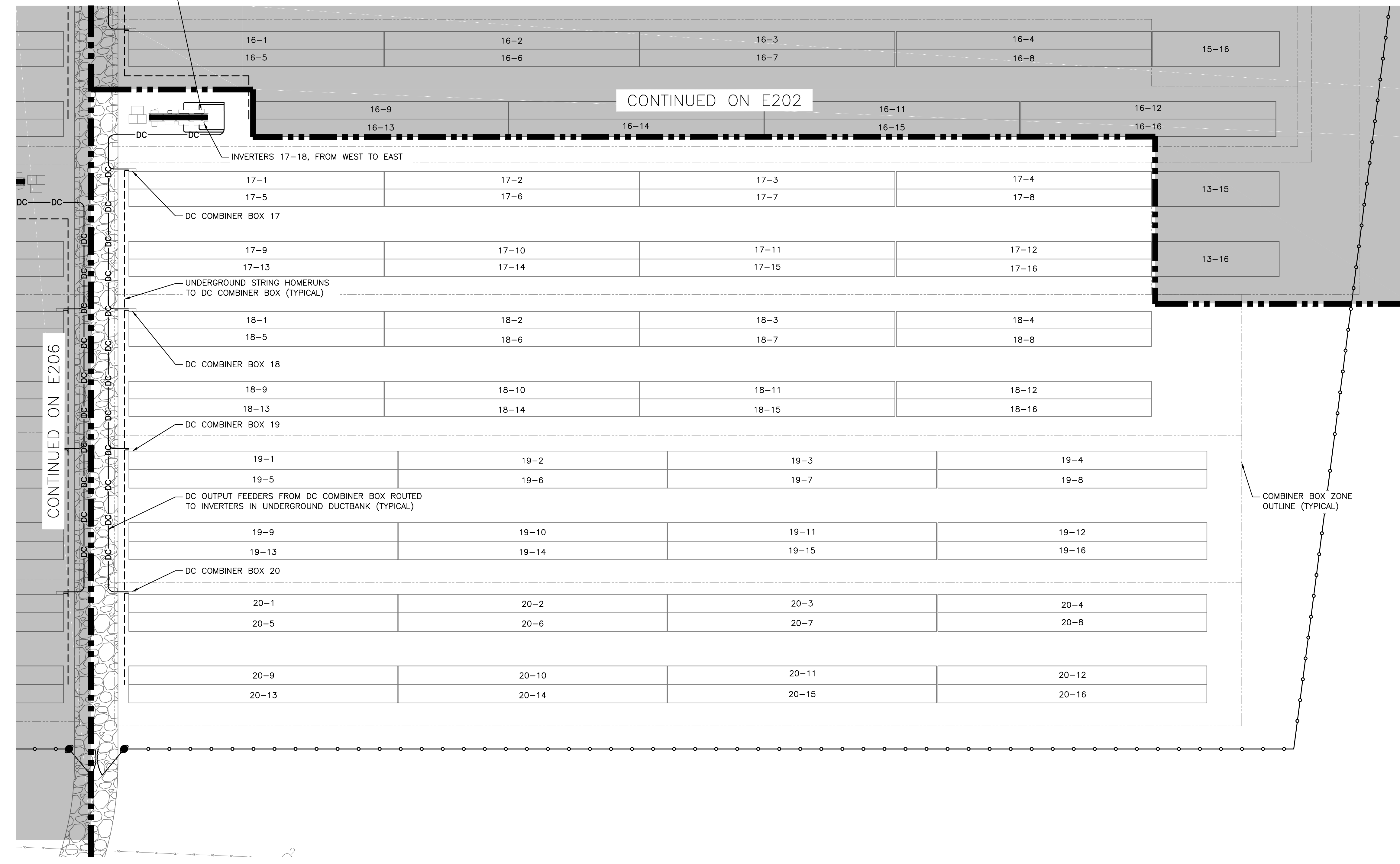


DRAWING TITLE: PARTIAL DC ELECTRICAL PLAN - SYSTEM 2
DRAWING #: E201

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 7/13/2020 9:11 AM

INVERTERS 19-20, FROM EAST TO WEST



| CONDUIT FILL TABLE | | |
|---|---------------------------------------|------------------------------------|
| MAXIMUM NUMBER OF CU #10 WIRES (PV WIRE + GROUND) | | |
| CONDUIT TRADE SIZE | CONDUIT LENGTH 24" OR LESS (60% FILL) | CONDUIT LENGTH OVER 24" (40% FILL) |
| 3/4" | 5 | 3 |
| 1" | 9 | 6 |
| 1.25" | 16 | 10 |
| 1.5" | 22 | 14 |
| 2" | 37 | 24 |
| 2.5" | 40 | 35 |
| 3" | 40 | 40 |
| 3.5" | 40 | 40 |
| 4" | 40 | 40 |

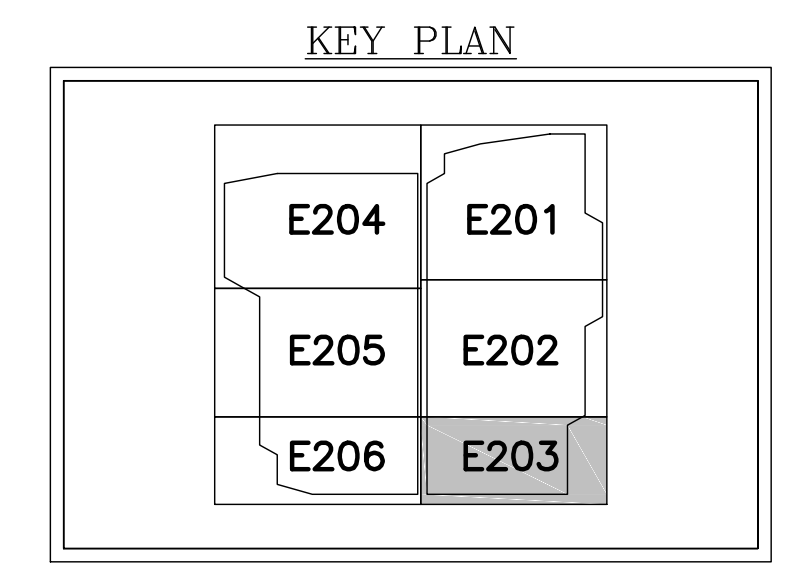
TABLE ASSUMING: PVC40 CONDUIT AND CU #10 PV WIRE WITH 0.26in O.D., 0.96 TEMP. DERATE
PV SOURCE CIRCUIT WITH 10.49A SHORT CIRCUIT CURRENT, 1 IN PARALLEL, AND 20A FUSES

IMPORTANT
CONTRACTOR MUST REDLINE DRAWINGS TO REFLECT EXACT AS-BUILT STRINGING AND RETURN TO PURE POWER.

1 PARTIAL DC ELECTRICAL PLAN - SYSTEM 3
E202/ SCALE: 1" = 20'-0"



STRING LABEL KEY
2-3 STRING #
INVERTER #



DRAWING TITLE
PARTIAL DC ELECTRICAL PLAN - SYSTEM 3

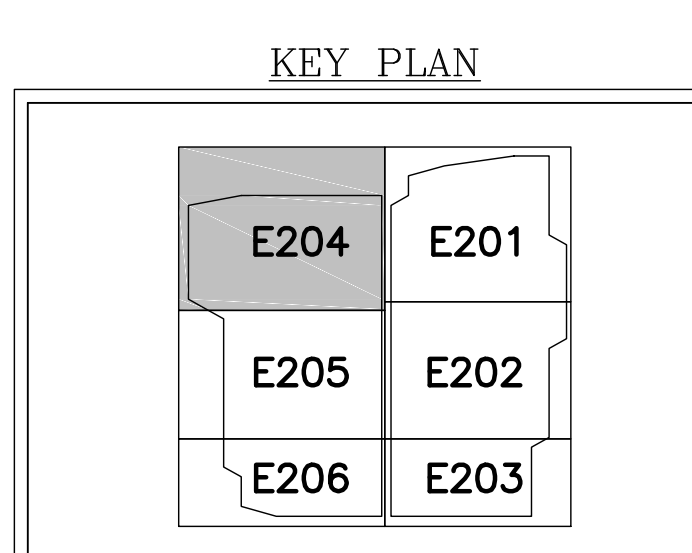
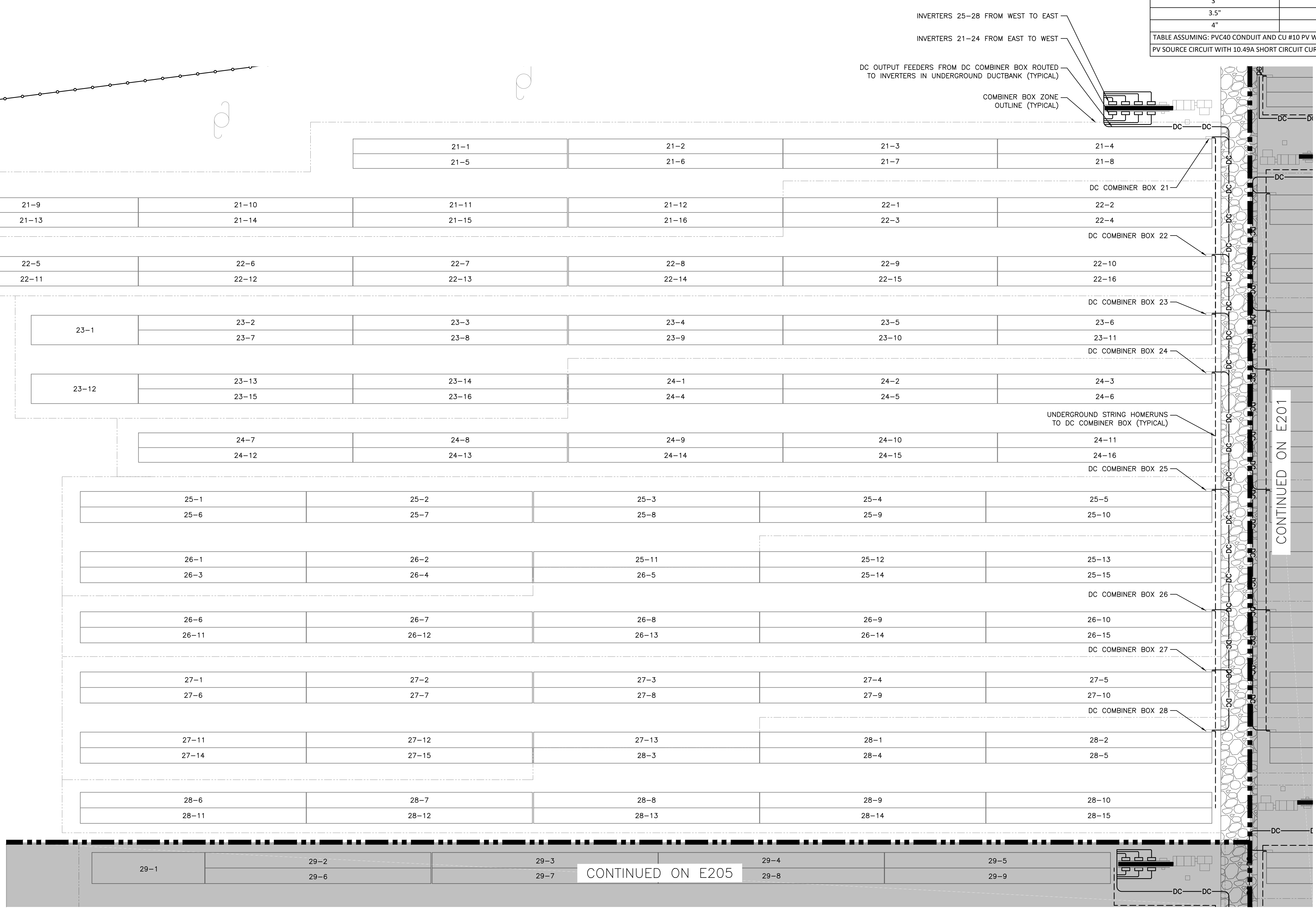
DRAWING #
E202

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DC SYSTEM SIZE: 6095.440 KW
 AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN 360W/400W
 MODULE QUANTITY: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH
 DEVELOPER: GREENSKIES 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM
 a Clean Focus company
 PURE POWER ENGINEERING INC. 5 MARINE VIEW PLAZA, HOBOKEN, NJ WWW.PUREPOWER.COM RICHARD A. VONK CT LICENSE NO. 03029282
 DATE: 03/13/2020
 REVISION DESCRIPTION: PERMIT SET - REV. 1
 DATE: 02/19/2020
 REVISION DESCRIPTION: PERMIT SET

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

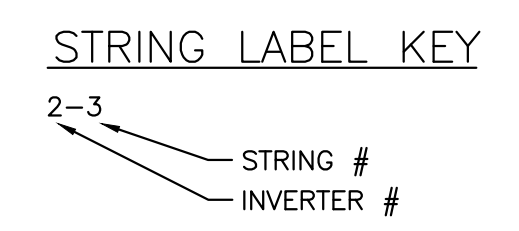
| CONDUIT FILL TABLE | | |
|---|---------------------------------------|------------------------------------|
| MAXIMUM NUMBER OF CU #10 WIRES (PV WIRE + GROUND) | | |
| CONDUIT TRADE SIZE | CONDUIT LENGTH 24" OR LESS (60% FILL) | CONDUIT LENGTH OVER 24" (40% FILL) |
| 3/4" | 5 | 3 |
| 1" | 9 | 6 |
| 1.25" | 16 | 10 |
| 1.5" | 22 | 14 |
| 2" | 37 | 24 |
| 2.5" | 40 | 35 |
| 3" | 40 | 40 |
| 3.5" | 40 | 40 |
| 4" | 40 | 40 |

TABLE ASSUMING: PVC40 CONDUIT AND CU #10 PV WIRE WITH 0.26in O.D., 0.96 TEMP. DERATE
PV SOURCE CIRCUIT WITH 10.49A SHORT CIRCUIT CURRENT, 1 IN PARALLEL, AND 20A FUSES



IMPORTANT
CONTRACTOR MUST REDLINE DRAWINGS TO REFLECT EXACT AS-BUILT STRINGING AND RETURN TO PURE POWER.

1 PARTIAL DC ELECTRICAL PLAN - SYSTEM 4
E203 SCALE: 1" = 20'-0"



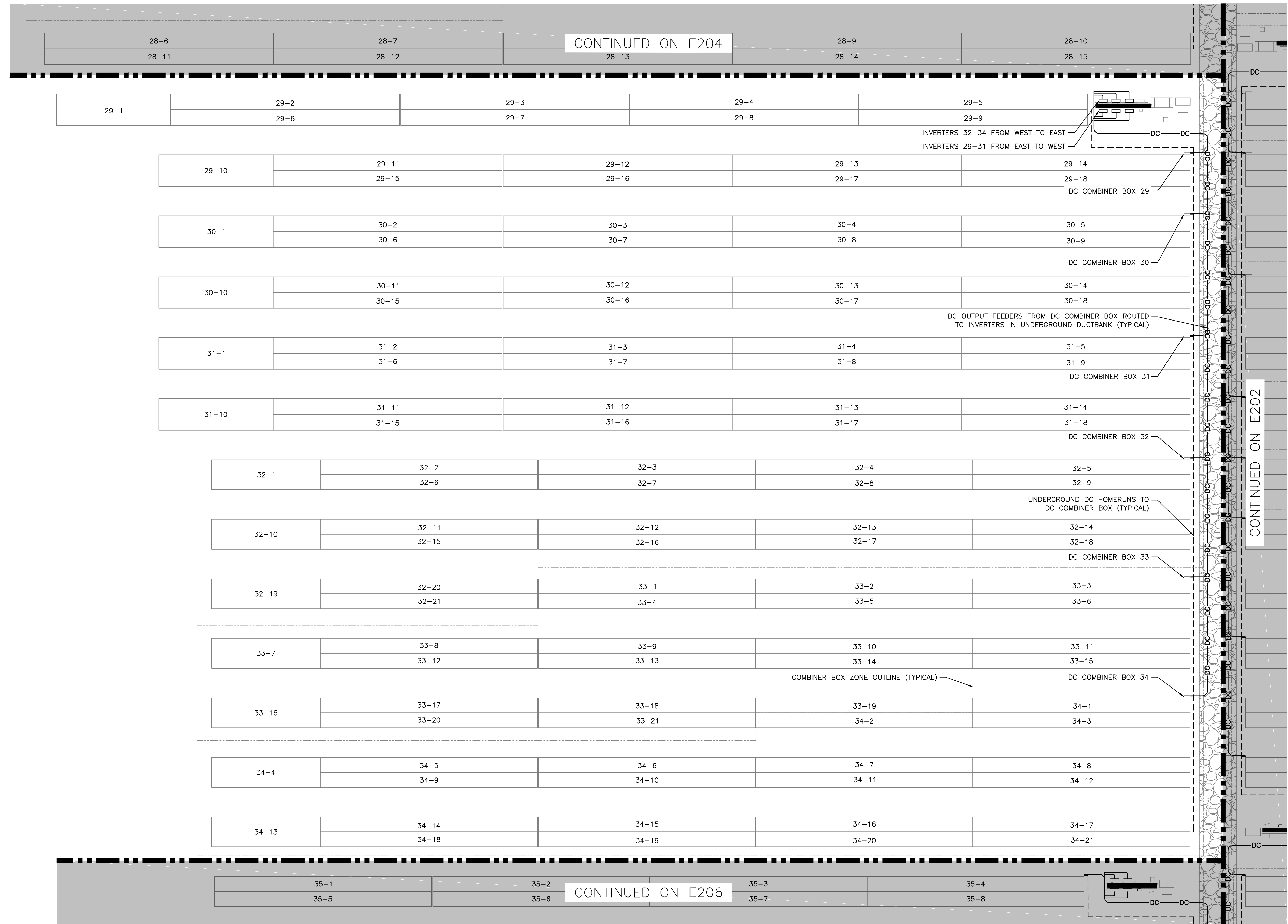
DRAWING TITLE
PARTIAL DC ELECTRICAL PLAN - SYSTEM 4

DRAWING #
E203

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DRAWING # E203
 DC SYSTEM SIZE: 6095.440 KW AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN 360W /400W
 MODULE QUANTITY: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH
 DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM
 PURE POWER ENERGY SOLUTIONS
 5 MARINE VIEW PLAZA - HOBOKEN, NJ WWW.PUREPOWER.COM
 RICHARD A. TONIN
 03/13/2020 PERMIT SET - REV. 1
 02/19/2020 PERMIT SET
 DATE: 03/13/2020
 REVISION DESCRIPTION: PERMIT SET
 DATE: 02/19/2020
 REVISION DESCRIPTION: PERMIT SET

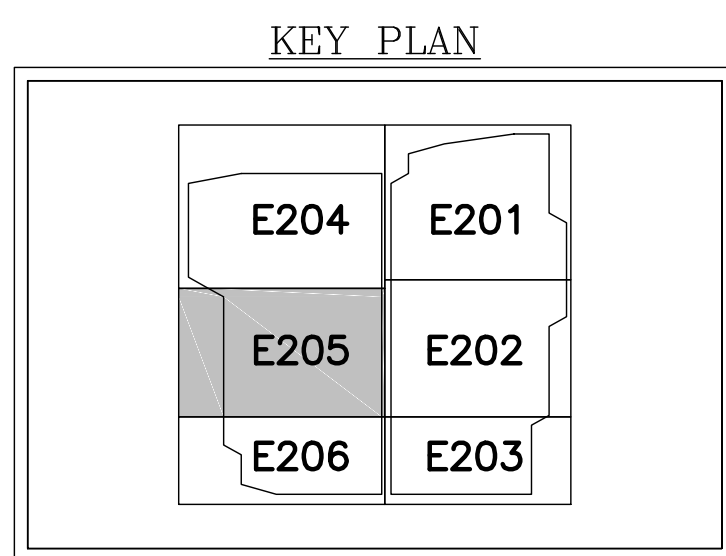
RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 7/13/2020 9:11 AM



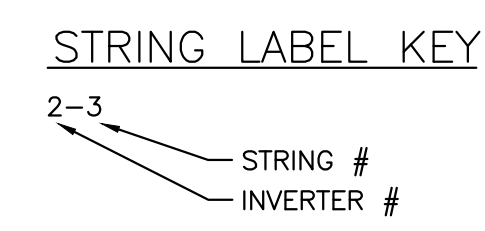
| CONDUIT FILL TABLE | | |
|---|---------------------------------------|------------------------------------|
| MAXIMUM NUMBER OF CU #10 WIRES (PV WIRE + GROUND) | | |
| CONDUIT TRADE SIZE | CONDUIT LENGTH 24" OR LESS (60% FILL) | CONDUIT LENGTH OVER 24" (40% FILL) |
| 3/4" | 5 | 3 |
| 1" | 9 | 6 |
| 1.25" | 16 | 10 |
| 1.5" | 22 | 14 |
| 2" | 37 | 24 |
| 2.5" | 40 | 35 |
| 3" | 40 | 40 |
| 3.5" | 40 | 40 |
| 4" | 40 | 40 |

TABLE ASSUMING: PVC40 CONDUIT AND CU #10 PV WIRE WITH 0.26in O.D., 0.96 TEMP. DERATE
PV SOURCE CIRCUIT WITH 10.49A SHORT CIRCUIT CURRENT, 1 IN PARALLEL, AND 20A FUSES



IMPORTANT
CONTRACTOR MUST REDLINE DRAWINGS TO REFLECT EXACT AS-BUILT STRINGING AND RETURN TO PURE POWER.

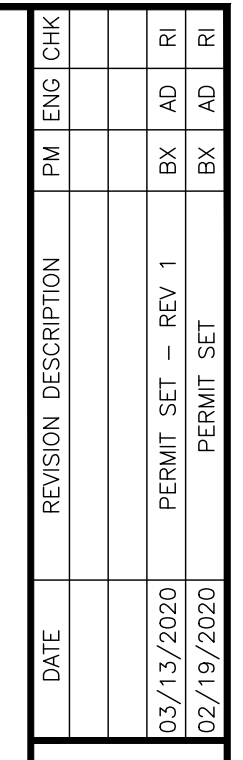
1 PARTIAL DC ELECTRICAL PLAN - SYSTEM 5
E204 SCALE: 1" = 20'-0"



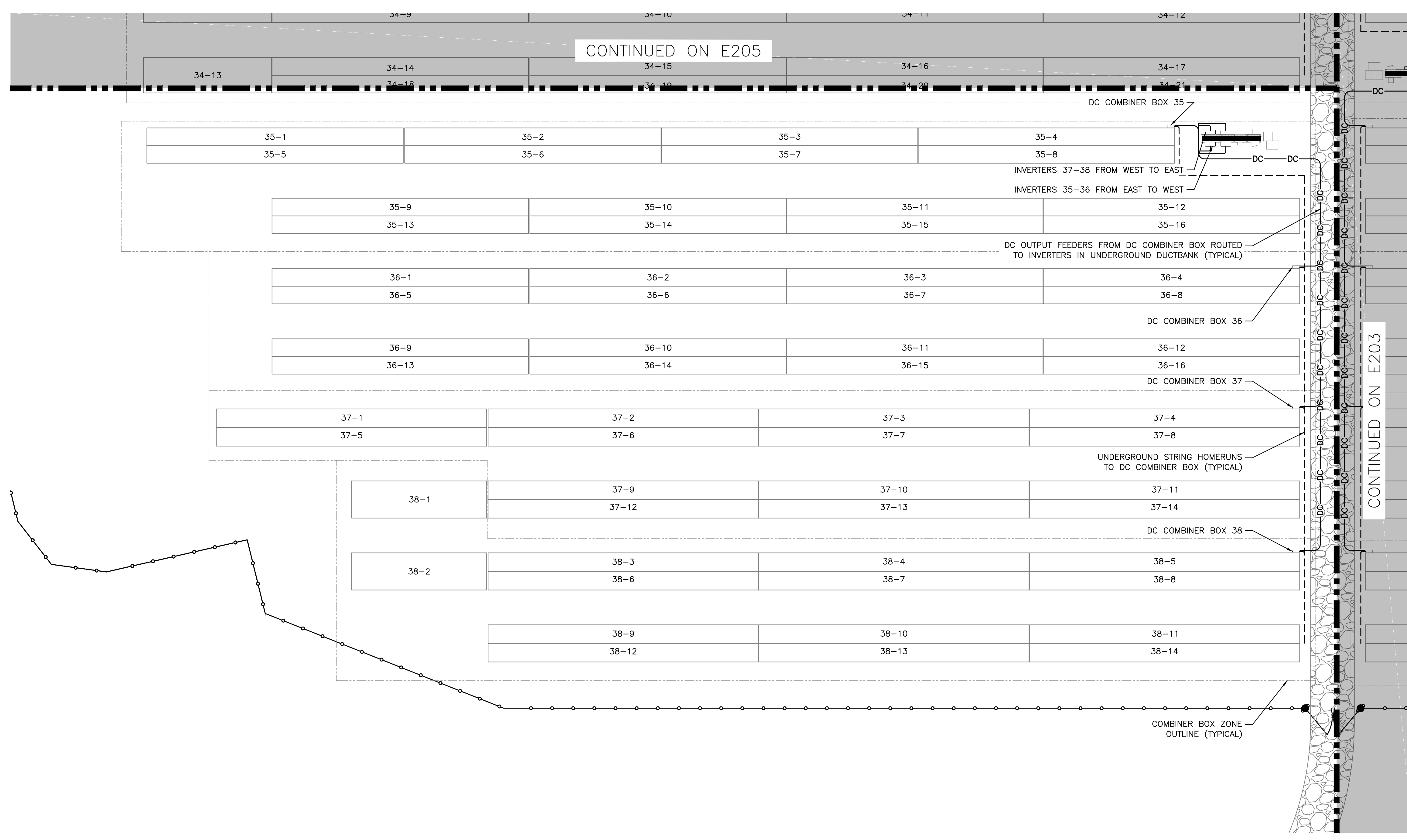
DRAWING TITLE
PARTIAL DC ELECTRICAL PLAN - SYSTEM 5

DRAWING #
E204

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DC SYSTEM SIZE: 4980.000 KW
 AC SYSTEM SIZE: CANADIAN 360W/400W
 MODULE TYPE: B294/7774
 MODULE QUANTITY: 25
 ORIENTATION: 25° TILT, 0° AZIMUTH
 DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM
 PAGE SIZE: 36" x 24"
 PROJECT #: PPE 00083
 DATE: 03/13/2020
 REVISION DESCRIPTION: PERMIT SET - REV. 1
 DATE: 02/19/2020
 REVISION DESCRIPTION: PERMIT SET



RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



CONTINUED ON E205

CONTINUED ON E203

| CONDUIT FILL TABLE | | |
|---|---------------------------------------|------------------------------------|
| MAXIMUM NUMBER OF CU #10 WIRES (PV WIRE + GROUND) | | |
| CONDUIT TRADE SIZE | CONDUIT LENGTH 24" OR LESS (60% FILL) | CONDUIT LENGTH OVER 24" (40% FILL) |
| 3/4" | 5 | 3 |
| 1" | 9 | 6 |
| 1.25" | 16 | 10 |
| 1.5" | 22 | 14 |
| 2" | 37 | 24 |
| 2.5" | 40 | 35 |
| 3" | 40 | 40 |
| 3.5" | 40 | 40 |
| 4" | 40 | 40 |

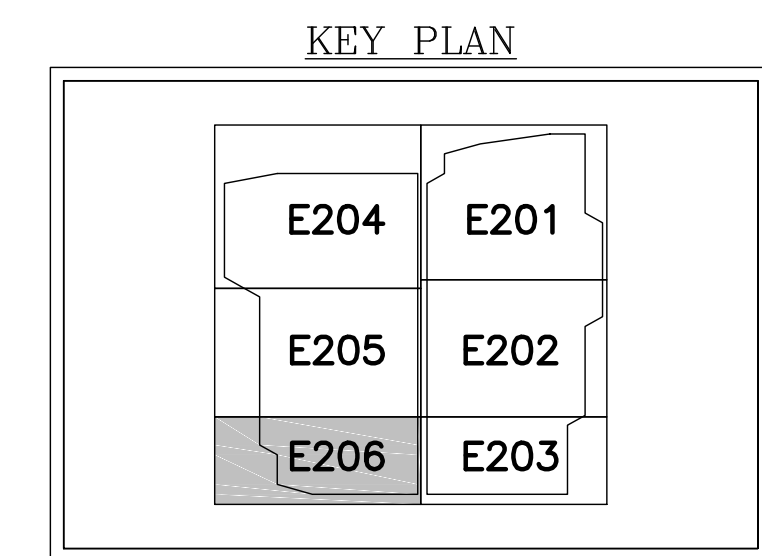
TABLE ASSUMING: PVC40 CONDUIT AND CU #10 PV WIRE WITH 0.26in O.D., 0.96 TEMP. DERATE
PV SOURCE CIRCUIT WITH 10.49A SHORT CIRCUIT CURRENT, 1 IN PARALLEL, AND 20A FUSES

IMPORTANT
CONTRACTOR MUST REDLINE DRAWINGS TO REFLECT EXACT AS-BUILT STRINGING AND RETURN TO PURE POWER.

1 PARTIAL DC ELECTRICAL PLAN - SYSTEM 6
E205 SCALE: 1" = 20'-0"



STRING LABEL KEY
2-3 STRING #
INVERTER #

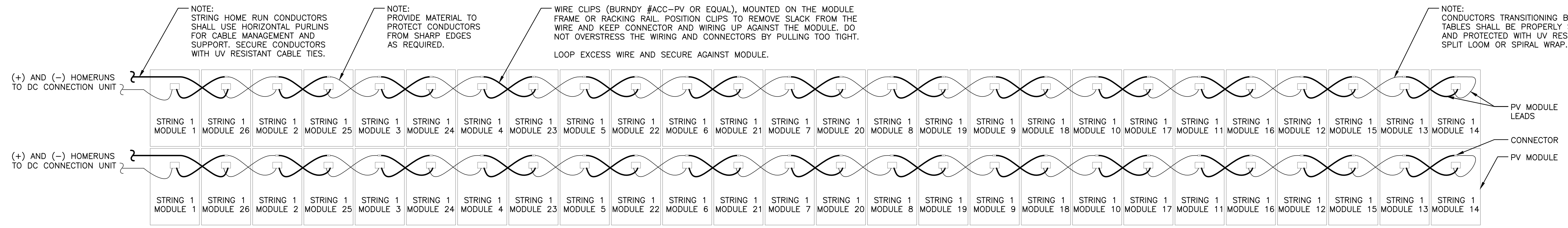


DRAWING TITLE
PARTIAL DC ELECTRICAL PLAN - SYSTEM 6

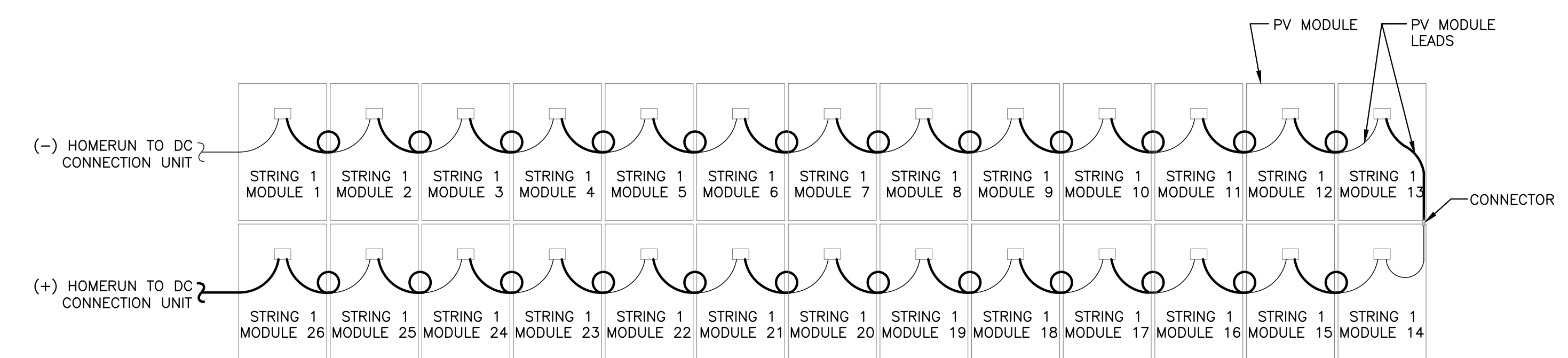
DRAWING #
E205

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DC SYSTEM SIZE: 6095.440 KW
 AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN 360W/400W
 ORIENTATION: 8294/7774
 25° TILT, 0° AZIMUTH
 DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM
 DATE: 03/13/2020
 REVISION DESCRIPTION: PERMIT SET - REV. 1
 DATE: 02/19/2020
 REVISION DESCRIPTION: PERMIT SET
 PM / ENG / CHK: [Blank]
 BX / AD / RI: [Blank]

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



1 FULL ROW INTERMODULE WIRING DETAIL
E206 SCALE: NONE

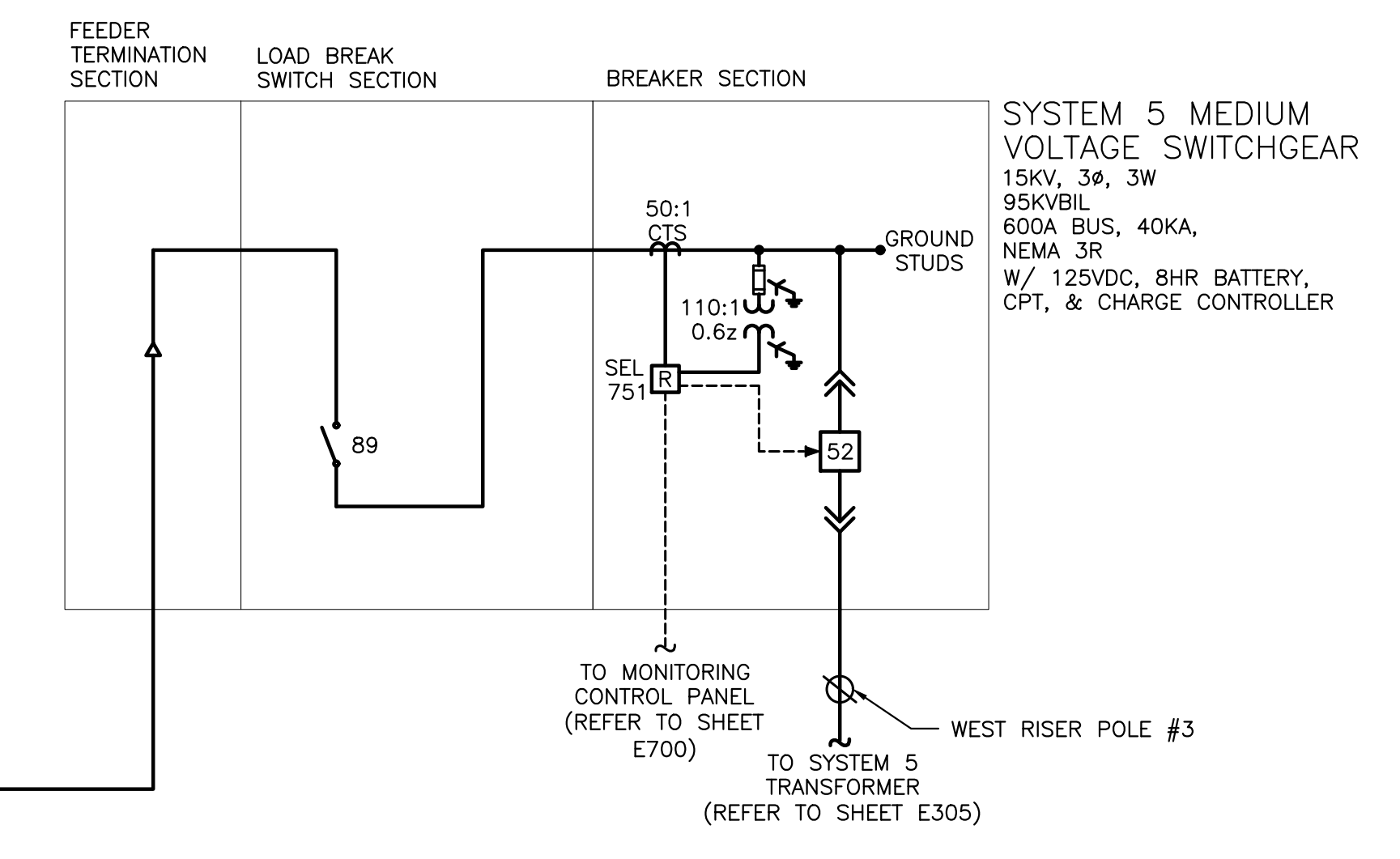
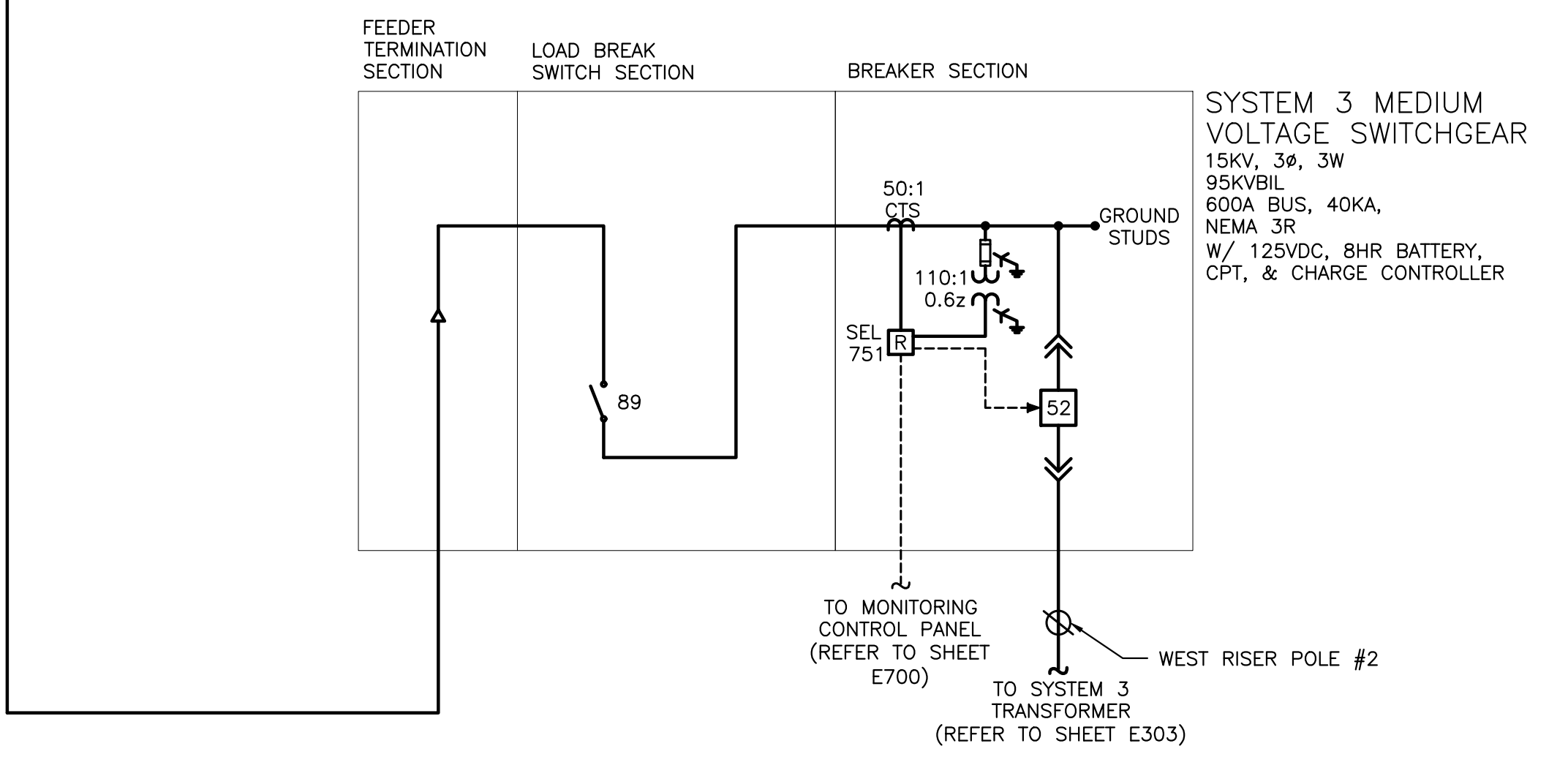
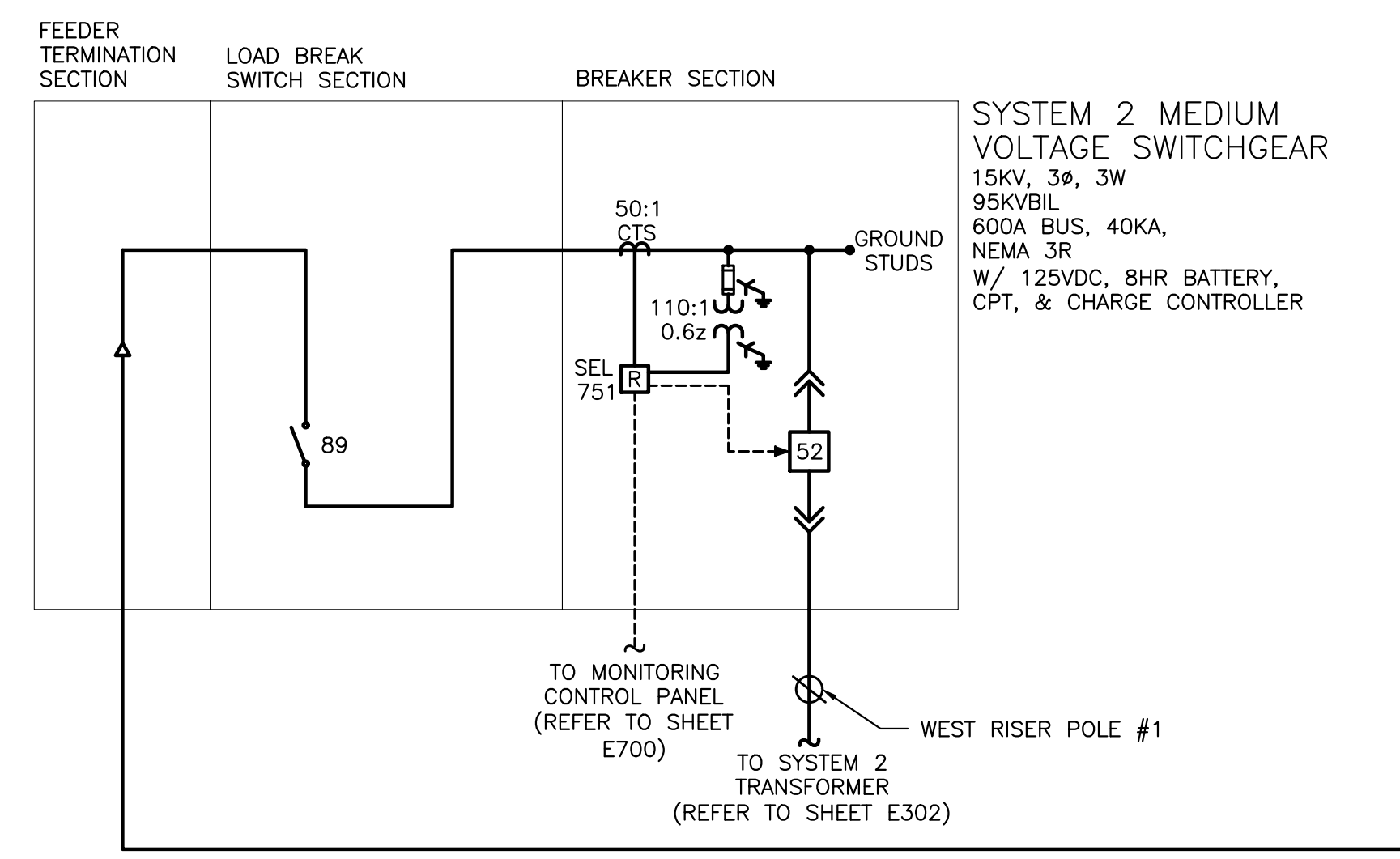
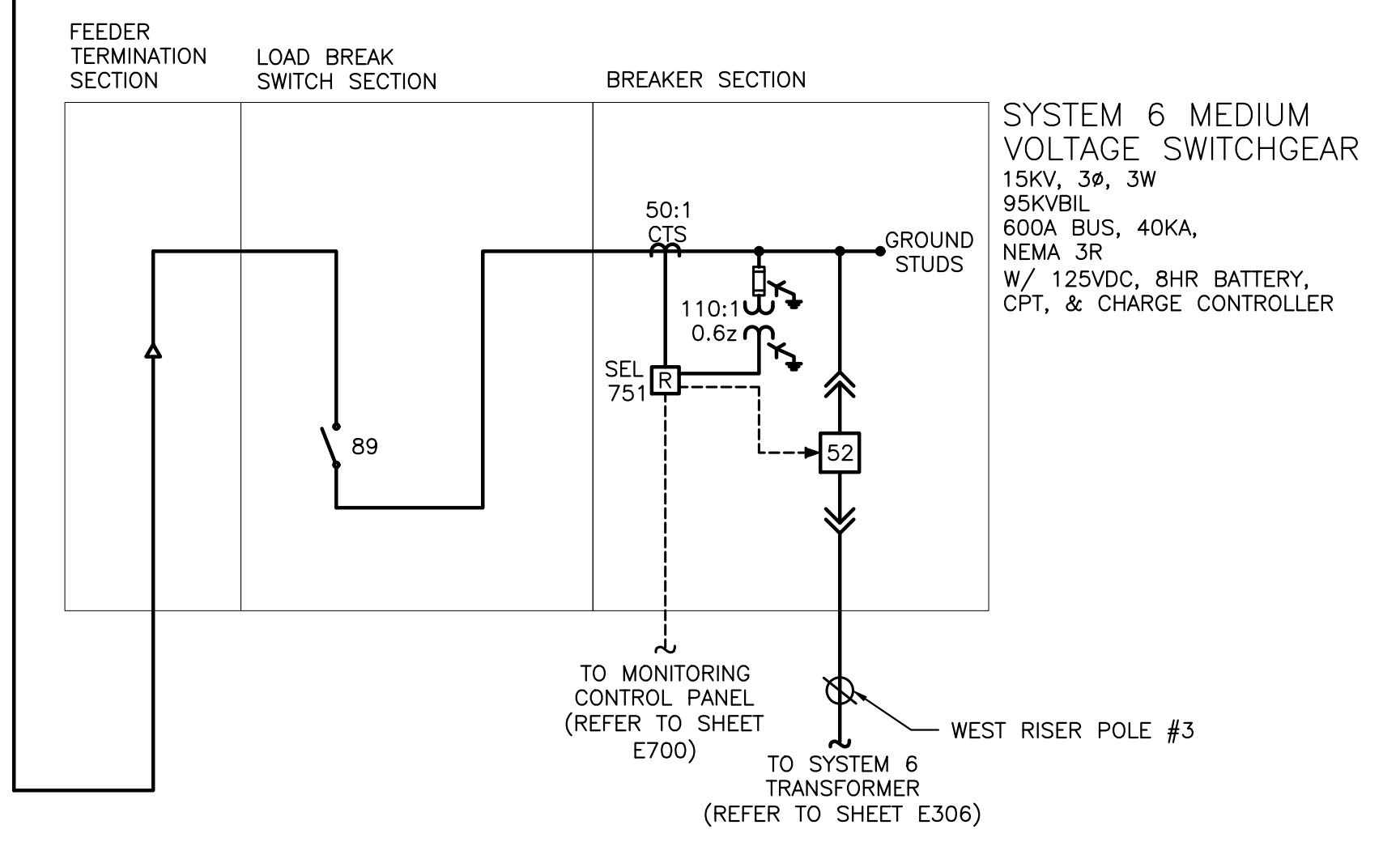
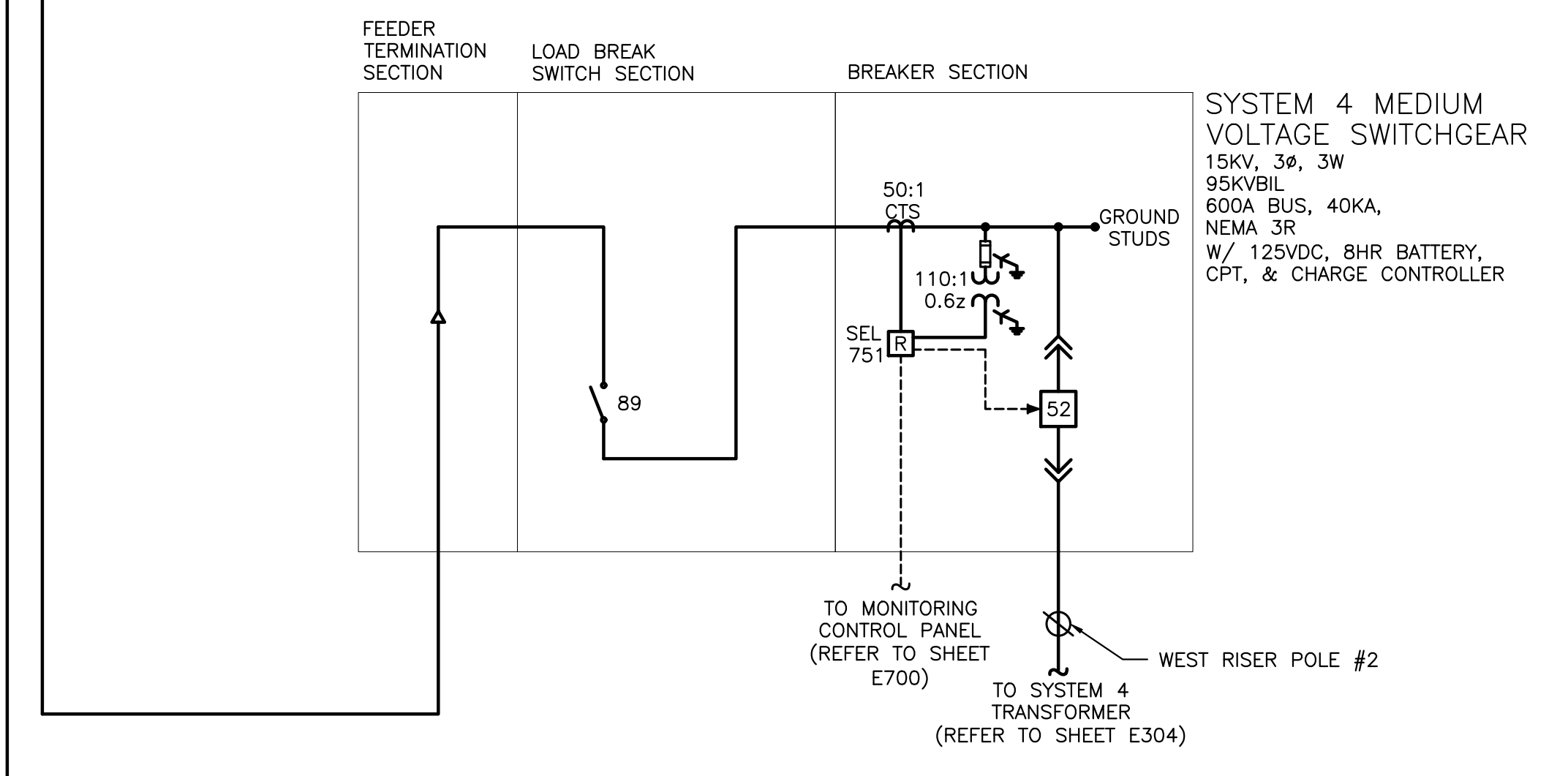
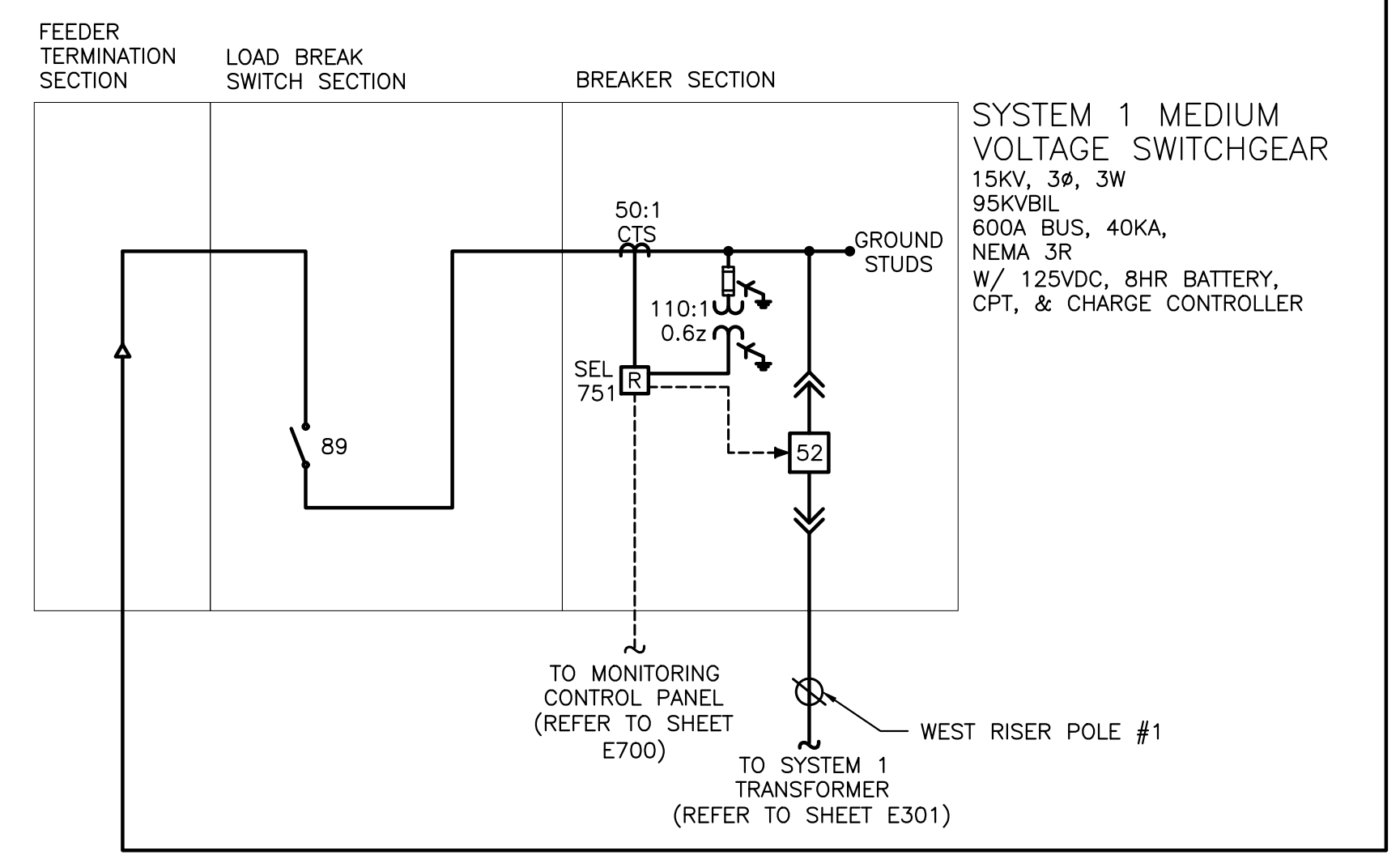
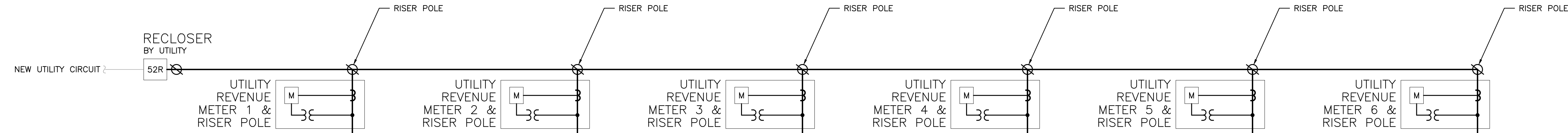


2 HALF ROW INTERMODULE WIRING DETAIL
E206 SCALE: NONE

| | | | | |
|--|---|------------|-----------|-------|
| PURE POWER 5 MARINE VIEW PLAZA, HOBOKEN, NJ WWW.PUREPOWER.COM RICHARD A. VON CT LICENSE NO. 03092862 | REVISION DESCRIPTION | DATE | DATE | DATE |
| | PERMIT SET | 02/19/2020 | | |
| GREENSKIES 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM a Clean Focus company | DEVELOPER | PAGE SIZE | PROJECT # | PPE |
| | 6095.440 KW 4980.000 KW CANADIAN 360W/400W 8294/7774 25° TILT, 0° AZIMUTH | 3.6" x 24" | 00083 | 00083 |
| PROJECT | DRAWING # | | | |
| 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378 | E206 | | | |

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

| OVERALL SYSTEM SIZE | |
|---------------------|--|
| DC SYSTEM SIZE | 6,204.640 KW |
| AC SYSTEM SIZE | 4,980.000 KW |
| MODULE | CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG |
| MODULE QTY | 8294 / 7774 |
| INVERTER | SOLECTRIA XGI-1500 125/125, 150/166, 166/166 |
| INVERTER QTY | 32, 1, 5 |



1 ONE LINE DIAGRAM
 E300 SCALE: NONE

DRAWING TITLE
ONE LINE DIAGRAM – MEDIUM VOLTAGE
 DRAWING #
E300

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK
 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DC SYSTEM SIZE: 6095.440 KW
 AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN SOLAR 360W/400W
 MODULE QUANTITY: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH
 DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM
 LICENSE NO. 0392982
 REGISTRATION NO. 00083
 PPE 00083
 DATE: 04/23/2020
 PERMIT SET - REV 3
 DATE: 04/03/2020
 PERMIT SET - REV 2
 DATE: 03/05/2020
 PROPOSED MV EQUIPMENT
 PERMIT SET
 REVISION DESCRIPTION
 PM ENG CHK
 BX SK RI
 BX SK RI
 BX SK RI
 BX SK RI
 BX SK RI
 BX SK RI

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

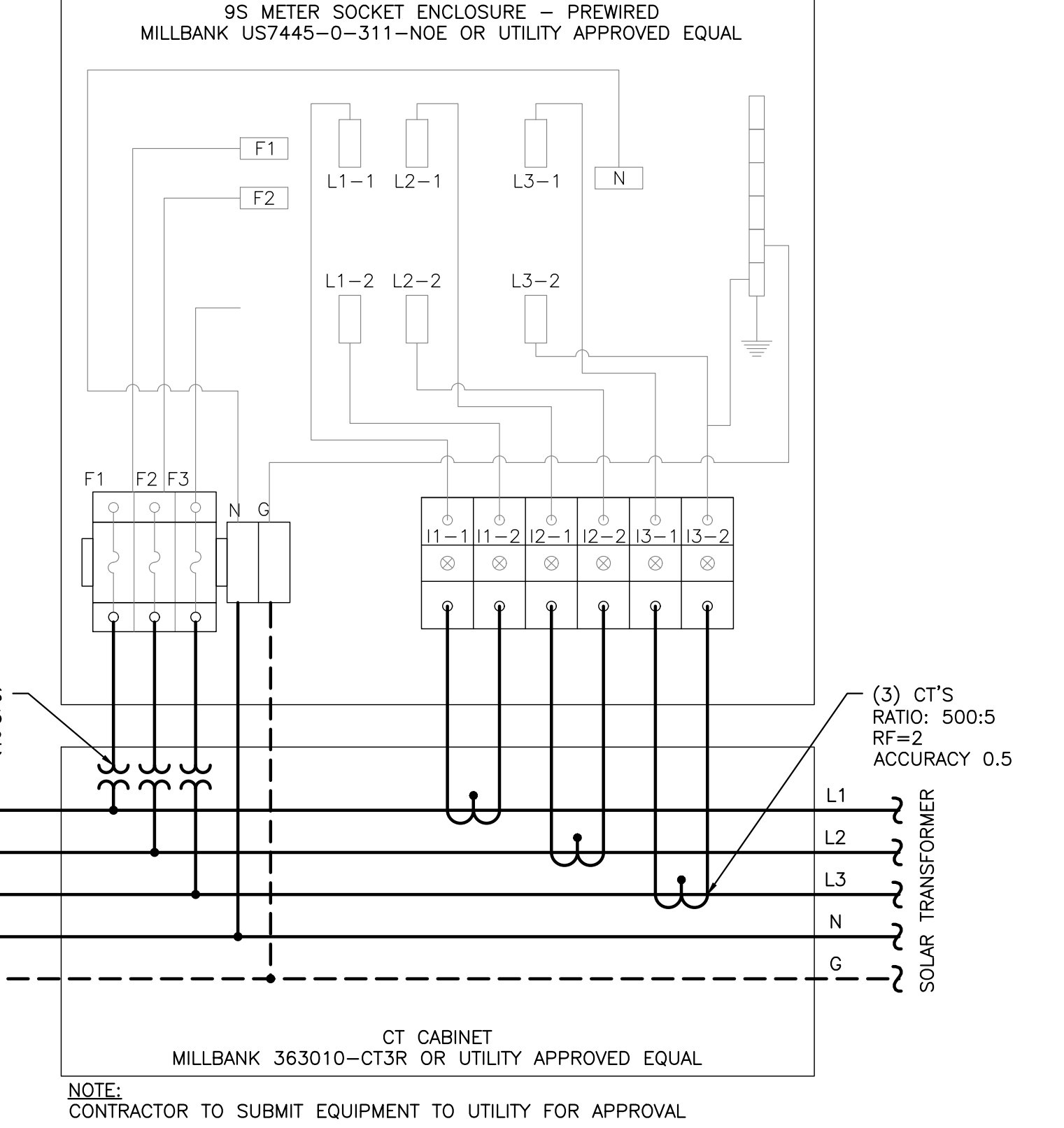
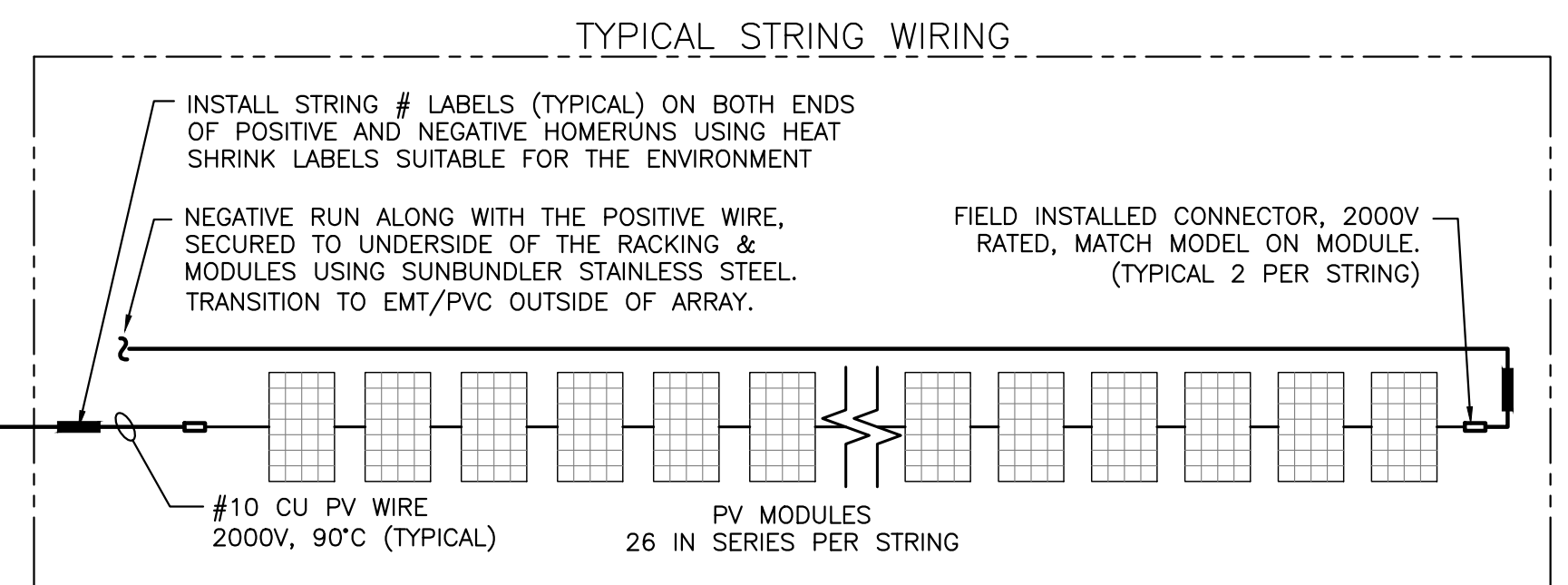
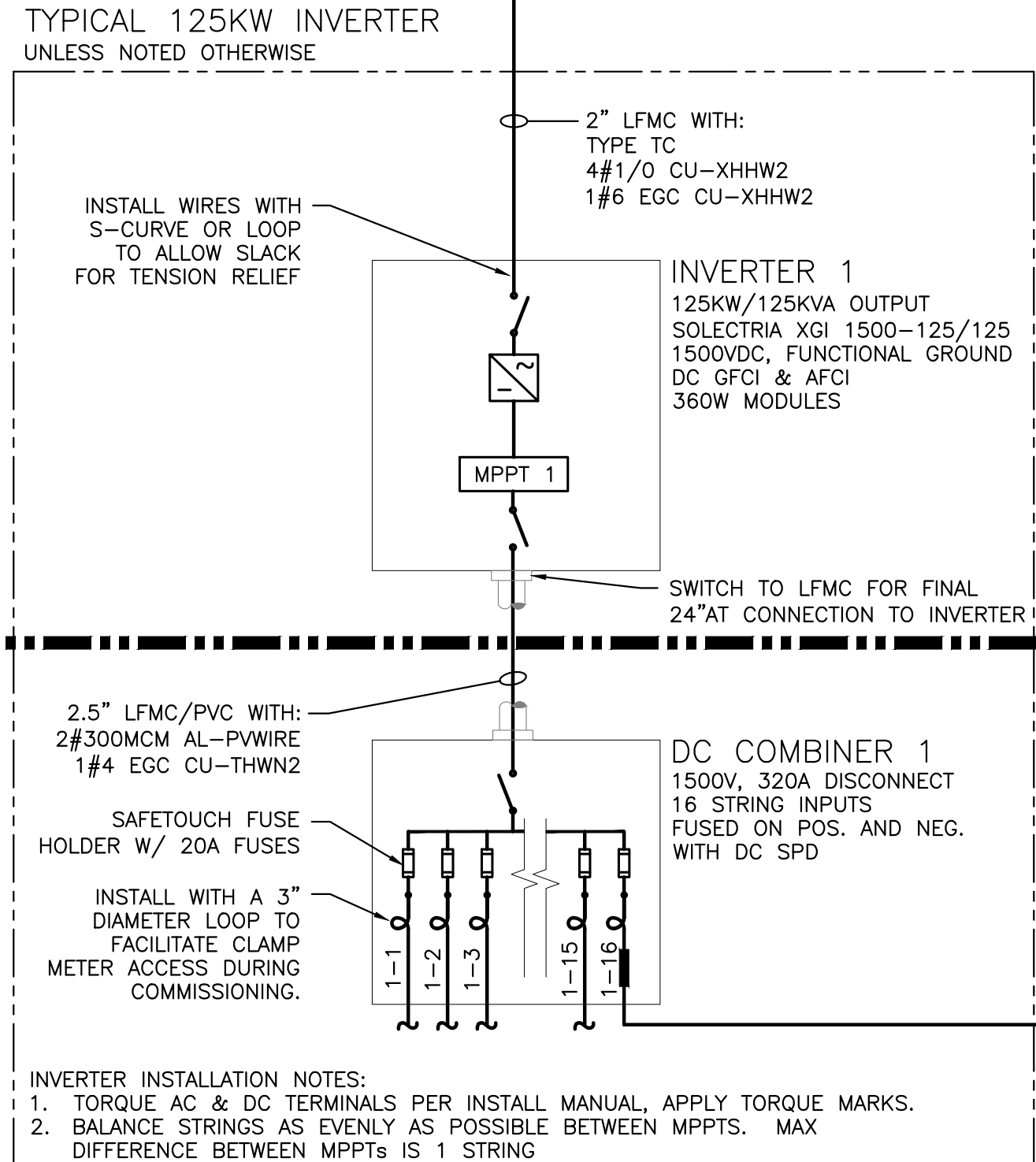
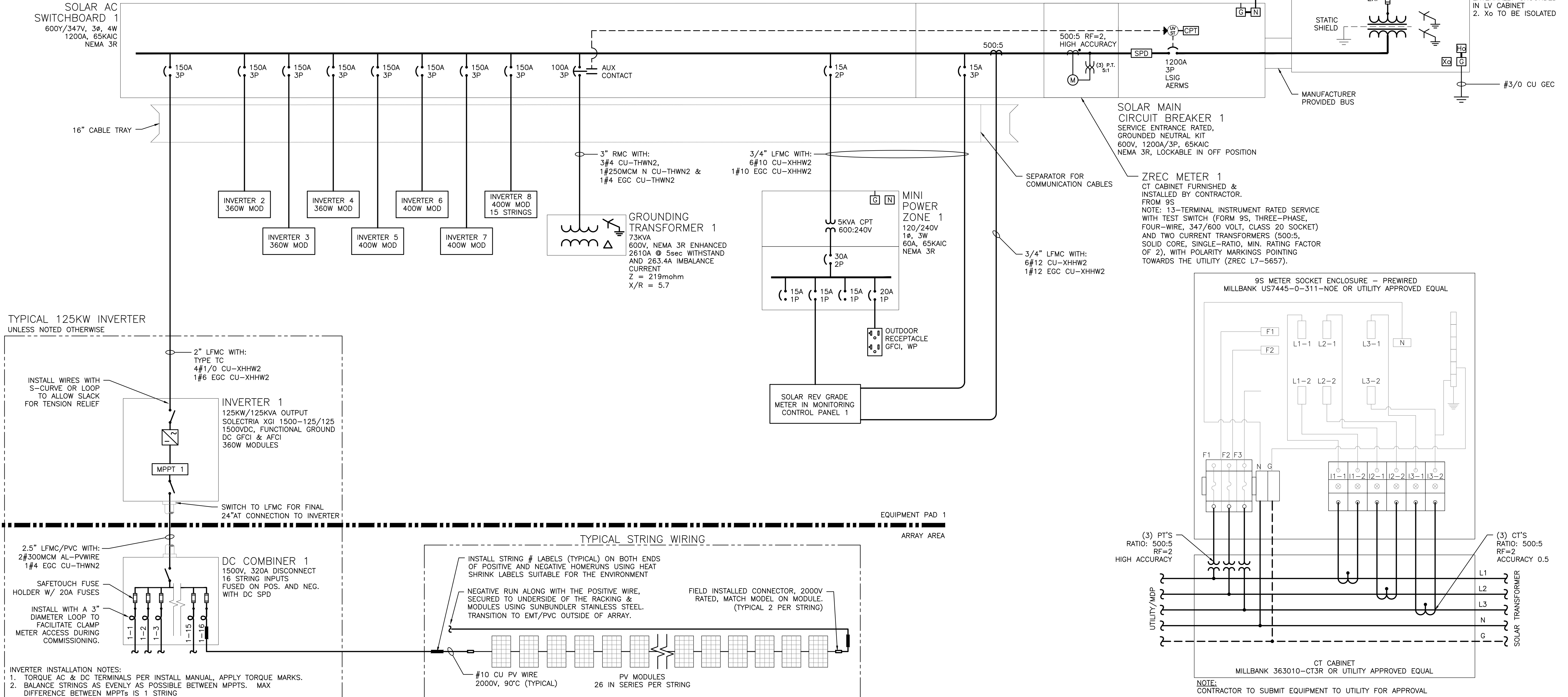
| SYSTEM 1 SUMMARY | |
|------------------|--|
| DC SYSTEM SIZE | 1,254.240 KW |
| AC SYSTEM SIZE | 1,000.000 KW |
| MODULE | CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG |
| MODULE QTY | 1664 / 1638 |
| INVERTER | SOLECTRIA XGI-1500 125/125 |
| INVERTER QTY | 8 |

| INVERTER INTERNAL PROTECTIVE SETTINGS: UL1741-SA COMPLIANT | | | | | |
|--|-----------|--------|-------|------------------------|-------------------------------|
| ANSI ELEMENT # | Pickup | Units* | Level | Total Clear Time (sec) | Description |
| 27 | 304.8 | V | 88% | 2.00 | Slow UV |
| 27 | 173.2 | V | 50% | 1.10 | Fast UV |
| 59 | 381.1 | V | 110% | 2.00 | Slow OV |
| 59 | 415.7 | V | 120% | 0.16 | Fast OV |
| 81U-1 | 56.50 | Hz | 94% | 0.16 | Fast UF |
| 81U-2 | 58.50 | Hz | 98% | 300.00 | Slow UF |
| 81O-1 | 62.00 | Hz | 103% | 0.16 | Fast OF |
| 81O-2 | 61.20 | Hz | 102% | 300.00 | Slow OF |
| 79 | 329.1 | V | 95% | 300.00 | Min Reclosing Voltage Value |
| 79 | 363.7 | V | 105% | 300.00 | Max Reclosing Voltage Value |
| 79 | 59.6 | Hz | 99% | 300.00 | Min Reclosing Frequency Value |
| 79 | 60.5 | Hz | 101% | 300.00 | Max Reclosing Frequency Value |
| INVERTER INTERNAL OPERATION SETTINGS | | | | | |
| PF Set Point | 1.00 | | | | Power Factor Control |
| Var Control | OFF | | | | Reactive Power Control |
| Ramp Rate | 10%/1 sec | | | | dlw / dt |
| Freq Control | OFF | | | | Speed Control |

* voltages based off 346.4V Line to Neutral

| EXTERNAL RELAY SETTINGS - SYSTEM 1 | | | | | | | | | |
|------------------------------------|--------|-------|-------|-------|-------------|-------------------------|-------|-------------------------------|--|
| ANSI ELEMENT # | Pickup | Real | Units | Level | Delay (sec) | Total Clear Time (sec)* | Curve | Description | |
| 27 | 63.73 | 7010 | V | 88% | 1.95 | 2.00 | | Slow UV | |
| 27 | 36.21 | 3983 | V | 50% | 1.05 | 1.10 | | Fast UV | |
| 27C | 57.94 | 6373 | V | 80% | | | | Voltage Pickup for 51C & 51CG | |
| 59 | 79.67 | 8764 | V | 110% | 1.95 | 2.00 | | Slow OV | |
| 59 | 86.91 | 9560 | V | 120% | 0.11 | 0.16 | | Fast OV | |
| 59N | 9.41 | 1035 | V | 13% | 1.95 | 2.00 | | Neutral Shift | |
| 81U-1 | 56.58 | 56.58 | Hz | 94% | 0.11 | 0.16 | | Fast UF | |
| 81U-2 | 58.50 | 58.50 | Hz | 98% | 299.95 | 300.00 | | Slow UF | |
| 81O-1 | 62.04 | 62.04 | Hz | 103% | 0.11 | 0.16 | | Fast OF | |
| 81O-2 | 61.20 | 61.20 | Hz | 102% | 299.95 | 300.00 | | Slow OF | |
| 51C | 0.15 | 8 | A | 19% | 1.95 | 2.00 | U4 | Voltage Controlled Phase OC | |
| 51CG | 0.15 | 8 | A | 19% | 1.45 | 1.50 | U4 | Voltage Controlled Ground OC | |
| 51G | 0.20 | 10 | A | 25% | 1.95 | 2.00 | U4 | Timed Ground OC | |
| 50P | 10.04 | 502 | A | 1200% | 0.00 | 0.05 | | Instant Phase OC | |
| 51P | 1.25 | 63 | A | 150% | 1.95 | 2.00 | U4 | Timed Phase OC | |
| 79 | 68.80 | 7568 | V | 95% | 299.95 | 300.00 | | Min Reclosing Voltage Value | |
| 79 | 76.05 | 8366 | V | 105% | 299.95 | 300.00 | | Max Reclosing Voltage Value | |
| 79 | 59.58 | 59.58 | Hz | 99% | 299.95 | 300.00 | | Min Reclosing Frequency Value | |
| 79 | 60.54 | 60.54 | Hz | 101% | 299.95 | 300.00 | | Max Reclosing Frequency Value | |

41.83A USED FOR 50/51 ELEMENTS 7967.4V USED FOR 27/59 ELEMENTS
 CT RATIO FACTOR = 50 PT RATIO FACTOR = 110
 * total clear time includes 0.05 sec breaker opening time



1 ONE LINE DIAGRAM
E301 SCALE: NONE

2 ZREC METER WIRING DIAGRAM (TYPICAL)
E300 SCALE: NONE

DRAWING TITLE
ONE LINE DIAGRAM - SYSTEM 1

REVISION DESCRIPTION
DATE
07/10/2020
04/23/2020
04/23/2020
04/23/2020

ISSUE FOR CONSTRUCTION
PERMIT SET - REV. 3
PERMIT SET - REV. 3
PERMIT SET - REV. 2

PM ENG CHK
BX AD RI
BX SK RI
BX SK RI
BX SK RI
BX AD RI

PURE POWER
5 MARINE VIEW PLAZA, HOBOKEN, NJ
WWW.PUREPOWER.COM
RICHARD A. TONIN
CT LICENSE NO. 03029262

GREENSKIES
180 JOHNSON STREET,
MIDDLETOWN, CT 06457
WWW.GREENSKIES.COM
a Clean Focus company

DEVELOPER
PROJECT #
PPE 00083

PAGE SIZE
3.6" x 24"

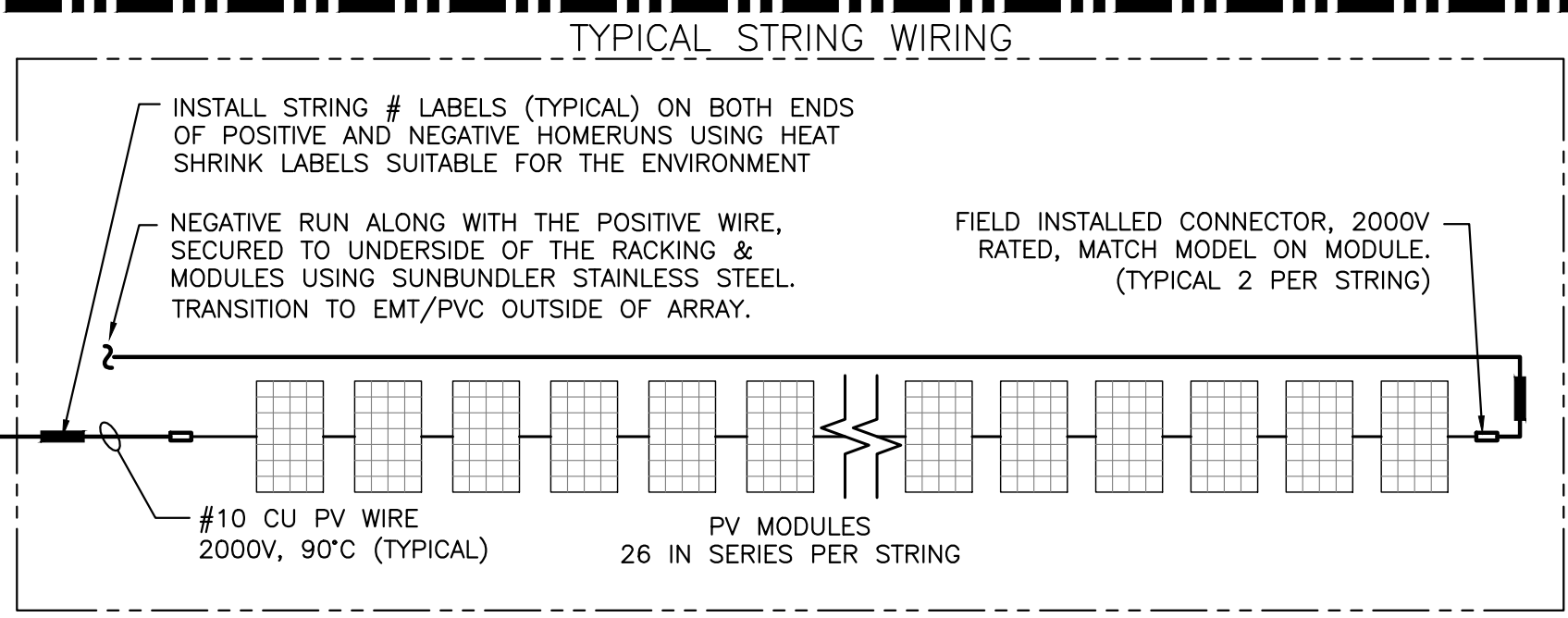
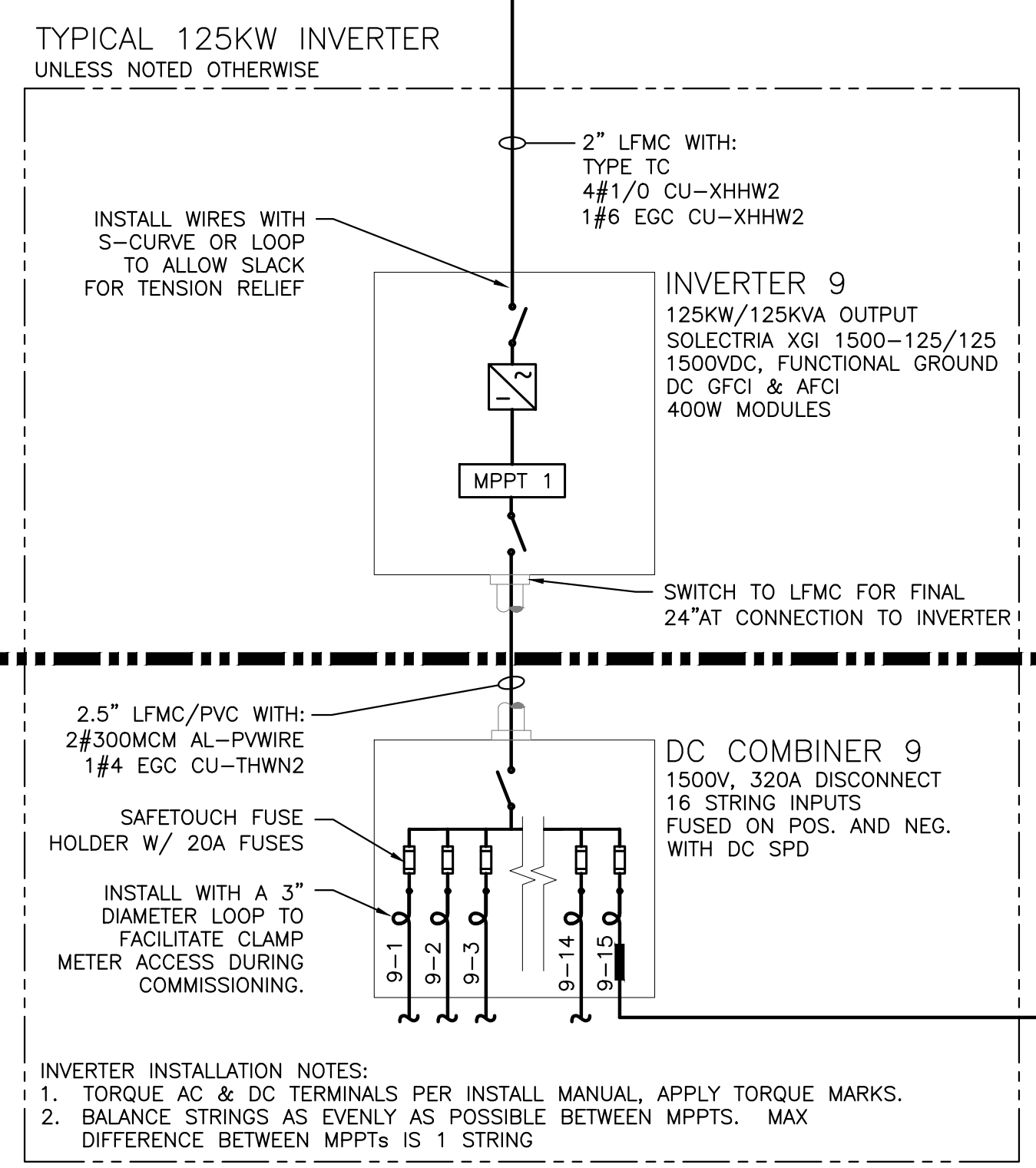
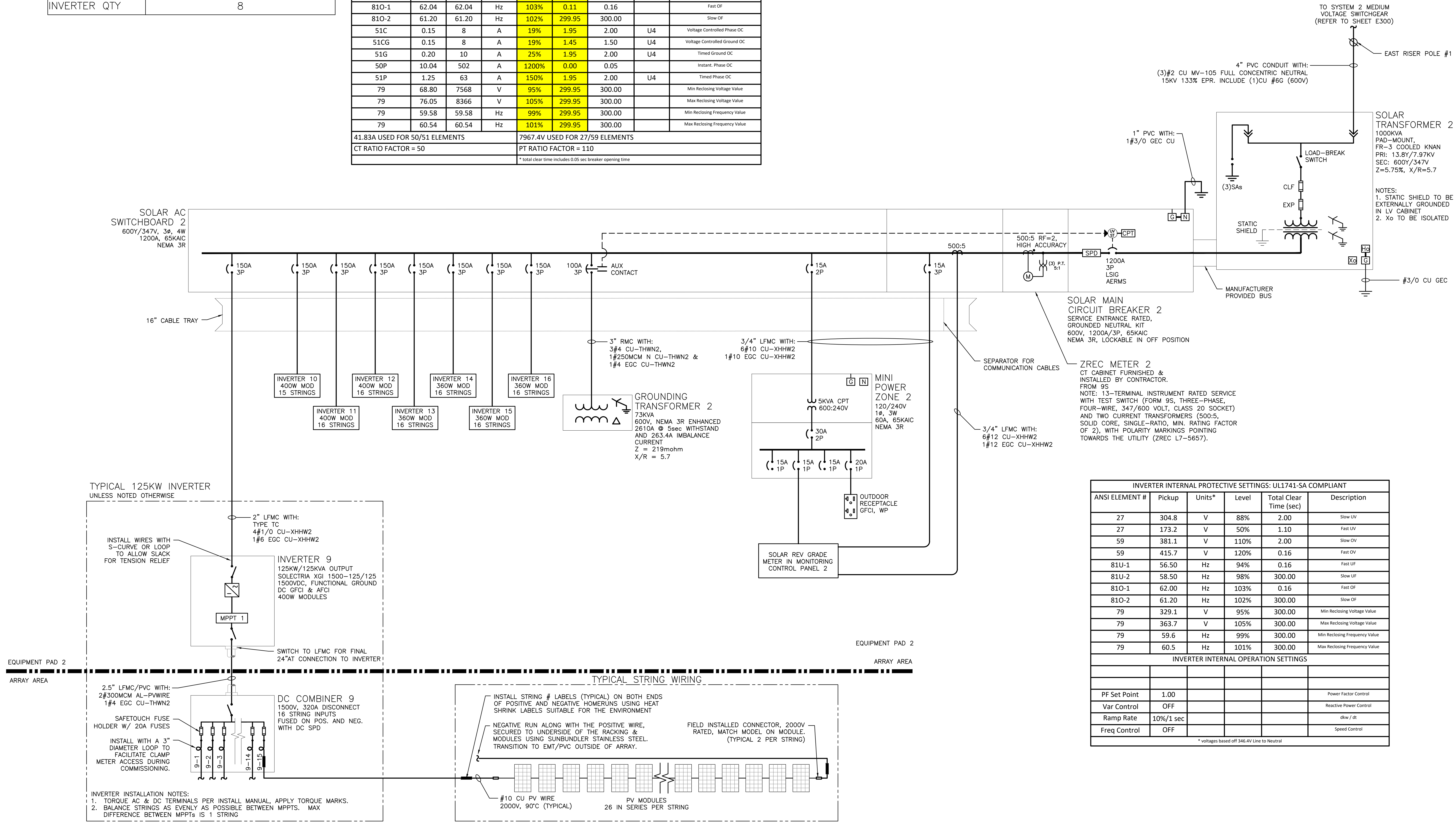
DC SYSTEM SIZE: 6095.440 KW
AC SYSTEM SIZE: 4980.000 KW
MODULE TYPE: CANADIAN 360W/400W
MODULE QUANTITY: 8294/7774
ORIENTATION: 25° TILT, 0° AZIMUTH

PROJECT
6095.440 KW GROUND MOUNT SYSTEM AT
STONINGTON TAUGWONK
35 TAUGWONK SPUR ROAD
STONINGTON, CT 06378

DRAWING #
E301

| SYSTEM 2 SUMMARY | |
|------------------|--|
| DC SYSTEM SIZE | 1,243.840 KW |
| AC SYSTEM SIZE | 1,000.000 KW |
| MODULE | CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG |
| MODULE QTY | 1664 / 1612 |
| INVERTER | SOLECTRIA XGI-1500 125/125 |
| INVERTER QTY | 8 |

| EXTERNAL RELAY SETTINGS - SYSTEM 2 | | | | | | | | |
|---|--------|-------|---------------------------------|-------|-------------|-------------------------|-------|-------------------------------|
| ANSI ELEMENT # | Pickup | Real | Units | Level | Delay (sec) | Total Clear Time (sec)* | Curve | Description |
| 27 | 63.73 | 7010 | V | 88% | 1.95 | 2.00 | | Slow UV |
| 27 | 36.21 | 3983 | V | 50% | 1.05 | 1.10 | | Fast UV |
| 27C | 57.94 | 6373 | V | 80% | | | | Voltage Pickup for 51C & 51CG |
| 59 | 79.67 | 8764 | V | 110% | 1.95 | 2.00 | | Slow OV |
| 59 | 86.91 | 9560 | V | 120% | 0.11 | 0.16 | | Fast OV |
| 59N | 9.41 | 1035 | V | 13% | 1.95 | 2.00 | | Neutral Shift |
| 81U-1 | 56.58 | 56.58 | Hz | 94% | 0.11 | 0.16 | | Fast UF |
| 81U-2 | 58.50 | 58.50 | Hz | 98% | 299.95 | 300.00 | | Slow UF |
| 81O-1 | 62.04 | 62.04 | Hz | 103% | 0.11 | 0.16 | | Fast OF |
| 81O-2 | 61.20 | 61.20 | Hz | 102% | 299.95 | 300.00 | | Slow OF |
| 51C | 0.15 | 8 | A | 19% | 1.95 | 2.00 | U4 | Voltage Controlled Phase OC |
| 51CG | 0.15 | 8 | A | 19% | 1.45 | 1.50 | U4 | Voltage Controlled Ground OC |
| 51G | 0.20 | 10 | A | 25% | 1.95 | 2.00 | U4 | Timed Ground OC |
| 50P | 10.04 | 502 | A | 1200% | 0.00 | 0.05 | | Instant Phase OC |
| 51P | 1.25 | 63 | A | 150% | 1.95 | 2.00 | U4 | Timed Phase OC |
| 79 | 68.80 | 7568 | V | 95% | 299.95 | 300.00 | | Min Reclosing Voltage Value |
| 79 | 76.05 | 8366 | V | 105% | 299.95 | 300.00 | | Max Reclosing Voltage Value |
| 79 | 59.58 | 59.58 | Hz | 99% | 299.95 | 300.00 | | Min Reclosing Frequency Value |
| 79 | 60.54 | 60.54 | Hz | 101% | 299.95 | 300.00 | | Max Reclosing Frequency Value |
| 41.83A USED FOR 50/51 ELEMENTS | | | 7967.4V USED FOR 27/59 ELEMENTS | | | | | |
| CT RATIO FACTOR = 50 | | | PT RATIO FACTOR = 110 | | | | | |
| * total clear time includes 0.05 sec breaker opening time | | | | | | | | |



| INVERTER INTERNAL PROTECTIVE SETTINGS: UL1741-SA COMPLIANT | | | | | |
|--|--------|--------|-------|------------------------|-------------------------------|
| ANSI ELEMENT # | Pickup | Units* | Level | Total Clear Time (sec) | Description |
| 27 | 304.8 | V | 88% | 2.00 | Slow UV |
| 27 | 173.2 | V | 50% | 1.10 | Fast UV |
| 59 | 381.1 | V | 110% | 2.00 | Slow OV |
| 59 | 415.7 | V | 120% | 0.16 | Fast OV |
| 81U-1 | 56.50 | Hz | 94% | 0.16 | Fast UF |
| 81U-2 | 58.50 | Hz | 98% | 300.00 | Slow UF |
| 81O-1 | 62.00 | Hz | 103% | 0.16 | Fast OF |
| 81O-2 | 61.20 | Hz | 102% | 300.00 | Slow OF |
| 79 | 329.1 | V | 95% | 300.00 | Min Reclosing Voltage Value |
| 79 | 363.7 | V | 105% | 300.00 | Max Reclosing Voltage Value |
| 79 | 59.6 | Hz | 99% | 300.00 | Min Reclosing Frequency Value |
| 79 | 60.5 | Hz | 101% | 300.00 | Max Reclosing Frequency Value |

| INVERTER INTERNAL OPERATION SETTINGS | | | |
|--------------------------------------|-----------|------------------------|-----------|
| Setting | Value | Control | Parameter |
| PF Set Point | 1.00 | Power Factor Control | |
| Var Control | OFF | Reactive Power Control | |
| Ramp Rate | 10%/1 sec | | dkw / dt |
| Freq Control | OFF | Speed Control | |

* voltages based off 346.4V Line to Neutral

1 ONE LINE DIAGRAM
E302 SCALE: NONE

DRAWING TITLE
ONE LINE DIAGRAM - SYSTEM 2

DRAWING #
E302

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

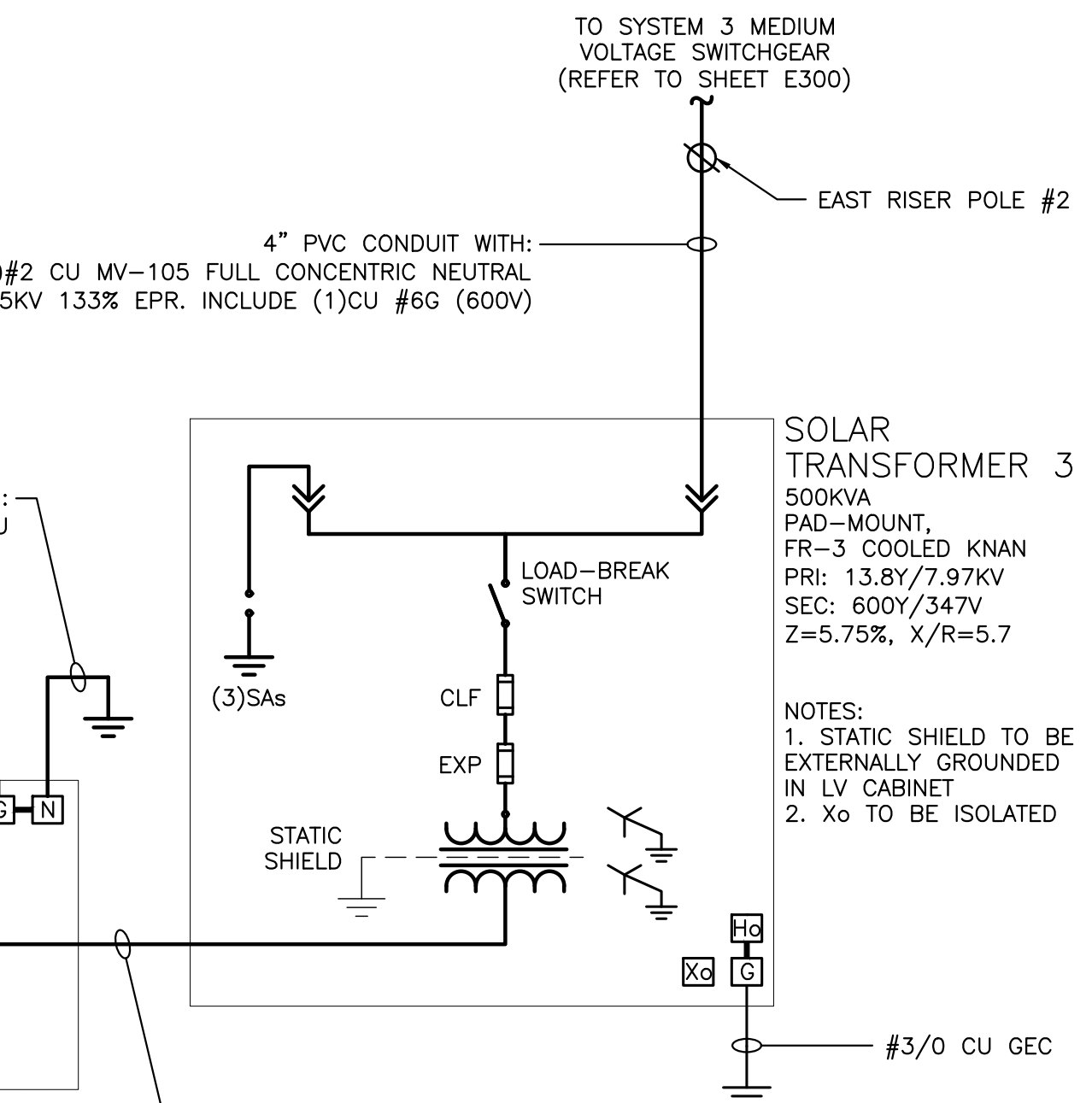
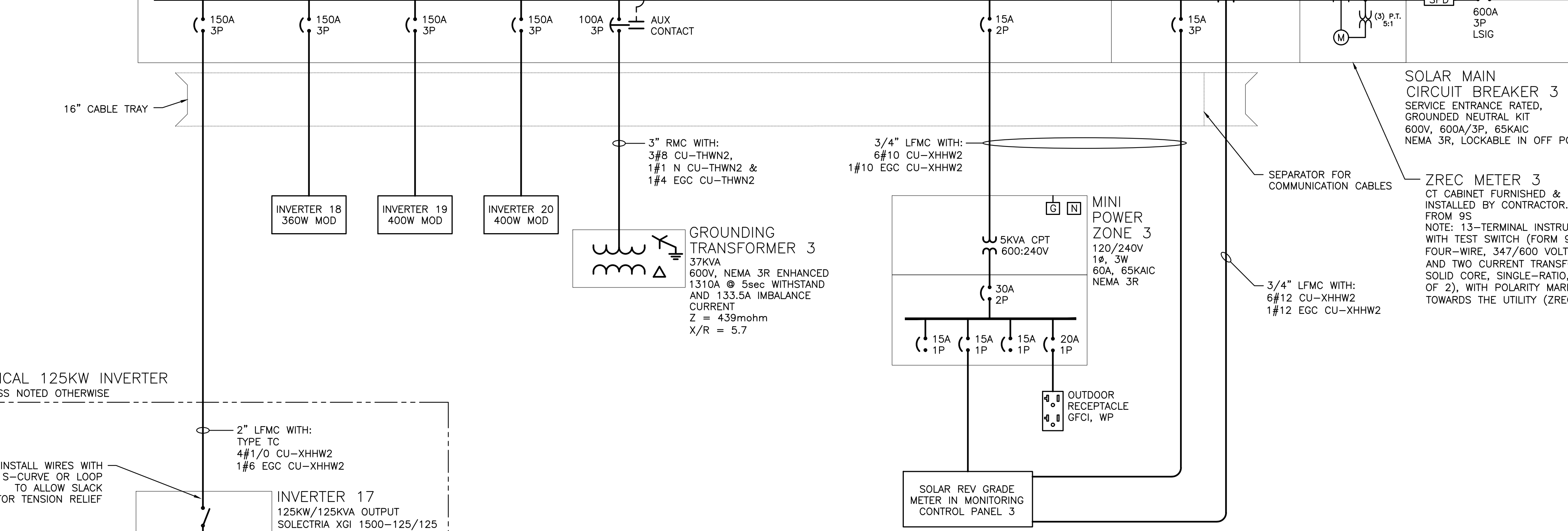
PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DC SYSTEM SIZE: 4980.000 KW
 AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG
 MODULE QUANTITY: 1664 / 1612
 ORIENTATION: 25° TILT, 0° AZIMUTH
 DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM
 CT LICENSE NO. 03629282
 DATE: 07/10/2020
 ISSUE FOR CONSTRUCTION: 04/23/2020
 PERMIT SET - REV. 3: 04/23/2020
 PERMIT SET - REV. 2: 04/23/2020
 PERMIT SET - REV. 1: 04/23/2020
 PM LENG CHK: BX AD RI
 ISSUE FOR CONSTRUCTION: BX AD RI
 PERMIT SET - REV. 3: BX AD RI
 PERMIT SET - REV. 2: BX AD RI
 PERMIT SET - REV. 1: BX AD RI

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

| SYSTEM 3 SUMMARY | |
|------------------|--|
| DC SYSTEM SIZE | 632.320 KW |
| AC SYSTEM SIZE | 500.000 KW |
| MODULE | CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG |
| MODULE QTY | 832 / 832 |
| INVERTER | SOLECTRIA XGI-1500 125/125 |
| INVERTER QTY | 4 |

| EXTERNAL RELAY SETTINGS - SYSTEM 3 | | | | | | | | |
|---|--------|-------|-------|---------------------------------|-------------|-------------------------|-------|-------------------------------|
| ANSI ELEMENT # | Pickup | Real | Units | Level | Delay (sec) | Total Clear Time (sec)* | Curve | Description |
| 27 | 63.73 | 7010 | V | 88% | 1.95 | 2.00 | | Slow UV |
| 27 | 36.21 | 3983 | V | 50% | 1.05 | 1.10 | | Fast UV |
| 27C | 57.94 | 6373 | V | 80% | | | | Voltage Pickup for 51C & 51CG |
| 59 | 79.67 | 8764 | V | 110% | 1.95 | 2.00 | | Slow OV |
| 59 | 86.91 | 9560 | V | 120% | 0.11 | 0.16 | | Fast OV |
| 59N | 9.41 | 1035 | V | 13% | 1.95 | 2.00 | | Neutral Shift |
| 81U-1 | 56.58 | 56.58 | Hz | 94% | 0.11 | 0.16 | | Fast UF |
| 81U-2 | 58.50 | 58.50 | Hz | 98% | 299.95 | 300.00 | | Slow UF |
| 81O-1 | 62.04 | 62.04 | Hz | 103% | 0.11 | 0.16 | | Fast OF |
| 81O-2 | 61.20 | 61.20 | Hz | 102% | 299.95 | 300.00 | | Slow OF |
| 51C | 0.19 | 4 | A | 19% | 1.95 | 2.00 | U4 | Voltage Controlled Phase OC |
| 51CG | 0.19 | 4 | A | 19% | 1.45 | 1.50 | U4 | Voltage Controlled Ground OC |
| 51G | 0.26 | 5 | A | 25% | 1.95 | 2.00 | U4 | Timed Ground OC |
| 50P | 12.55 | 251 | A | 1200% | 0.00 | 0.05 | | Instant Phase OC |
| 51P | 1.56 | 31 | A | 150% | 1.95 | 2.00 | U4 | Timed Phase OC |
| 79 | 68.80 | 7568 | V | 95% | 299.95 | 300.00 | | Min Reclosing Voltage Value |
| 79 | 76.05 | 8366 | V | 105% | 299.95 | 300.00 | | Max Reclosing Voltage Value |
| 79 | 59.58 | 59.58 | Hz | 99% | 299.95 | 300.00 | | Min Reclosing Frequency Value |
| 79 | 60.54 | 60.54 | Hz | 101% | 299.95 | 300.00 | | Max Reclosing Frequency Value |
| 20.91A USED FOR 50/51 ELEMENTS | | | | 7967.4V USED FOR 27/59 ELEMENTS | | | | |
| CT RATIO FACTOR = 20 | | | | PT RATIO FACTOR = 110 | | | | |
| * total clear time includes 0.05 sec breaker opening time | | | | | | | | |

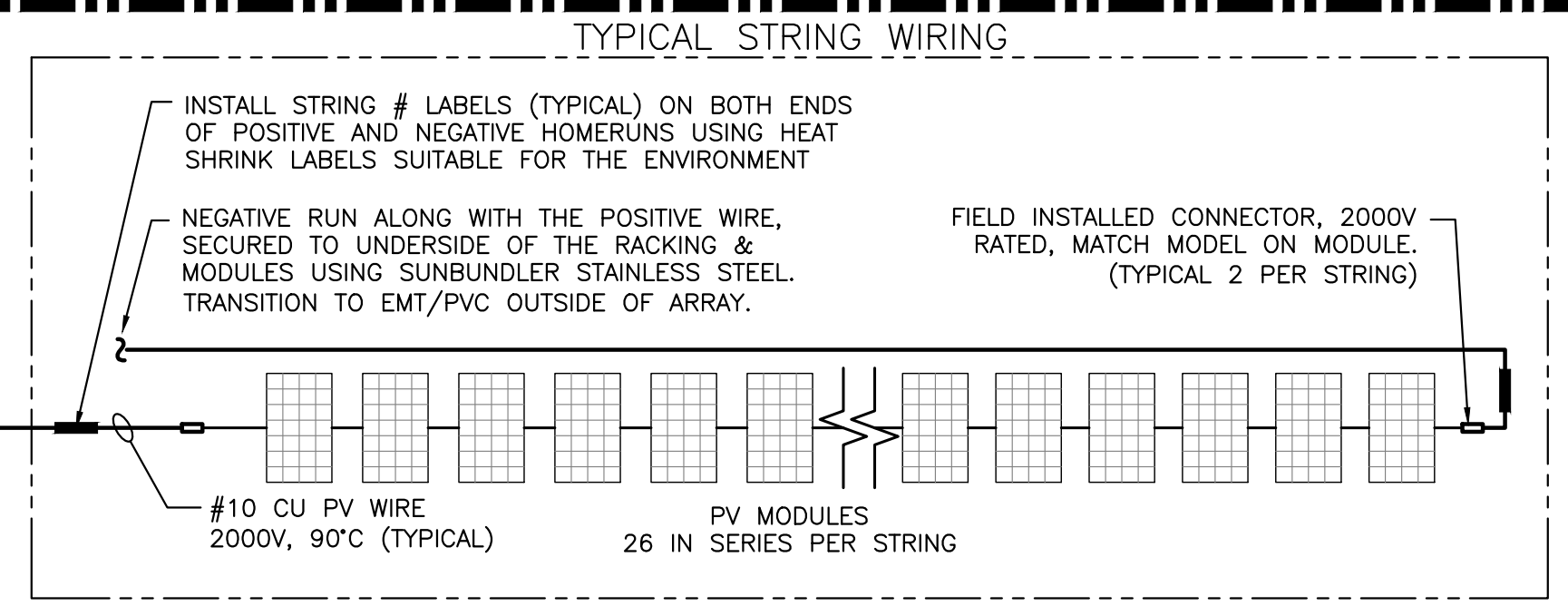
SOLAR AC PANELBOARD 3
600Y/347V, 3Ø, 4W
600A, 65KAIC
NEMA 3R



| INVERTER INTERNAL PROTECTIVE SETTINGS: UL1741-SA COMPLIANT | | | | | |
|--|--------|--------|-------|------------------------|-------------------------------|
| ANSI ELEMENT # | Pickup | Units* | Level | Total Clear Time (sec) | Description |
| 27 | 304.8 | V | 88% | 2.00 | Slow UV |
| 27 | 173.2 | V | 50% | 1.10 | Fast UV |
| 59 | 381.1 | V | 110% | 2.00 | Slow OV |
| 59 | 415.7 | V | 120% | 0.16 | Fast OV |
| 81U-1 | 56.50 | Hz | 94% | 0.16 | Fast UF |
| 81U-2 | 58.50 | Hz | 98% | 300.00 | Slow UF |
| 81O-1 | 62.00 | Hz | 103% | 0.16 | Fast OF |
| 81O-2 | 61.20 | Hz | 102% | 300.00 | Slow OF |
| 79 | 329.1 | V | 95% | 300.00 | Min Reclosing Voltage Value |
| 79 | 363.7 | V | 105% | 300.00 | Max Reclosing Voltage Value |
| 79 | 59.6 | Hz | 99% | 300.00 | Min Reclosing Frequency Value |
| 79 | 60.5 | Hz | 101% | 300.00 | Max Reclosing Frequency Value |

| INVERTER INTERNAL OPERATION SETTINGS | | | |
|--------------------------------------|-----------|------------------------|-------|
| Setting | Value | Control | Notes |
| PF Set Point | 1.00 | Power Factor Control | |
| Var Control | OFF | Reactive Power Control | |
| Ramp Rate | 10%/1 sec | dIw / dt | |
| Freq Control | OFF | Speed Control | |

* voltages based off 346.4V Line to Neutral



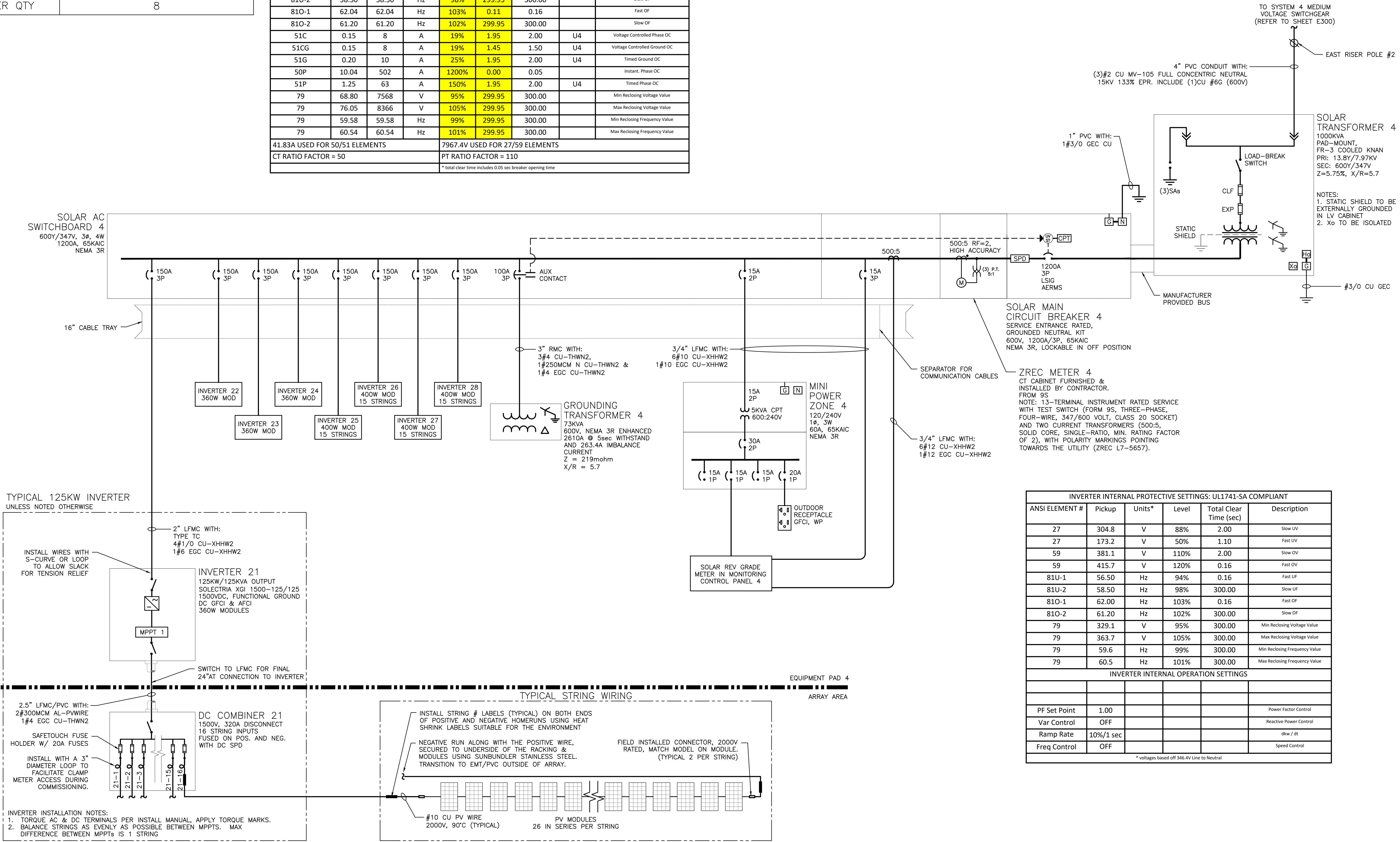
1 ONE LINE DIAGRAM
E303 SCALE: NONE

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DC SYSTEM SIZE: 6095.440 KW AC SYSTEM SIZE: 4980.000 KW MODULE TYPE: CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG MODULE QUANTITY: 8294/7774 ORIENTATION: 25° TILT, 0° AZIMUTH
 DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM
 DATE: 04/23/2020 PERMIT SET - REV. 3
 DATE: 04/23/2020 PERMIT SET - REV. 3
 DATE: 04/23/2020 PERMIT SET - REV. 2
 DATE: 02/19/2020 PERMIT SET
 REVISION DESCRIPTION: PERMIT SET - REV. 3
 PERMIT SET - REV. 3
 PERMIT SET - REV. 2
 PERMIT SET
 PPE: 00083

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

| SYSTEM 4 SUMMARY | |
|------------------|--|
| DC SYSTEM SIZE | 1,223.040 KW |
| AC SYSTEM SIZE | 1,000.000 KW |
| MODULE | CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG |
| MODULE QTY | 1664 / 1560 |
| INVERTER | SOLECTRIA XGI-1500 125/125 |
| INVERTER QTY | 8 |

| EXTERNAL RELAY SETTINGS - SYSTEM 4 | | | | | | | | | |
|---|--------|-------|-------|---------------------------------|-------------|-------------------------|-------|-------------------------------|--|
| ANSI ELEMENT # | Pickup | Real | Units | Level | Delay (sec) | Total Clear Time (sec)* | Curve | Description | |
| 27 | 63.73 | 7010 | V | 88% | 1.95 | 2.00 | | Slow UV | |
| 27 | 36.21 | 3983 | V | 50% | 1.05 | 1.10 | | Fast UV | |
| 27C | 57.94 | 6373 | V | 80% | | | | Voltage Pickup for 51C & 51CG | |
| 59 | 79.67 | 8764 | V | 110% | 1.95 | 2.00 | | Slow OV | |
| 59 | 86.91 | 9560 | V | 120% | 0.11 | 0.16 | | Fast OV | |
| 59N | 9.41 | 1035 | V | 13% | 1.95 | 2.00 | | Neutral Shift | |
| 81U-1 | 56.58 | 56.58 | Hz | 94% | 0.11 | 0.16 | | Fast UF | |
| 81U-2 | 58.50 | 58.50 | Hz | 98% | 299.95 | 300.00 | | Slow UF | |
| 81O-1 | 62.04 | 62.04 | Hz | 103% | 0.11 | 0.16 | | Fast OF | |
| 81O-2 | 61.20 | 61.20 | Hz | 102% | 299.95 | 300.00 | | Slow OF | |
| 51C | 0.15 | 8 | A | 19% | 1.95 | 2.00 | U4 | Voltage Controlled Phase OC | |
| 51CG | 0.15 | 8 | A | 19% | 1.45 | 1.50 | U4 | Voltage Controlled Ground OC | |
| 51G | 0.20 | 10 | A | 25% | 1.95 | 2.00 | U4 | Timed Ground OC | |
| 50P | 10.04 | 502 | A | 1200% | 0.00 | 0.05 | | Instant Phase OC | |
| 51P | 1.25 | 63 | A | 150% | 1.95 | 2.00 | U4 | Timed Phase OC | |
| 79 | 68.80 | 7568 | V | 95% | 299.95 | 300.00 | | Min Reclosing Voltage Value | |
| 79 | 76.05 | 8366 | V | 105% | 299.95 | 300.00 | | Max Reclosing Voltage Value | |
| 79 | 59.58 | 59.58 | Hz | 99% | 299.95 | 300.00 | | Min Reclosing Frequency Value | |
| 79 | 60.54 | 60.54 | Hz | 101% | 299.95 | 300.00 | | Max Reclosing Frequency Value | |
| 41.83A USED FOR 50/51 ELEMENTS | | | | 7967.4V USED FOR 27/59 ELEMENTS | | | | | |
| CT RATIO FACTOR = 50 | | | | PT RATIO FACTOR = 110 | | | | | |
| * total clear time includes 0.05 sec breaker opening time | | | | | | | | | |



| INVERTER INTERNAL PROTECTIVE SETTINGS: UL1741-SA COMPLIANT | | | | | |
|--|--------|--------|-------|------------------------|-------------------------------|
| ANSI ELEMENT # | Pickup | Units* | Level | Total Clear Time (sec) | Description |
| 27 | 304.8 | V | 88% | 2.00 | Slow UV |
| 27 | 173.2 | V | 50% | 1.10 | Fast UV |
| 59 | 381.1 | V | 110% | 2.00 | Slow OV |
| 59 | 415.7 | V | 120% | 0.16 | Fast OV |
| 81U-1 | 56.50 | Hz | 94% | 0.16 | Fast UF |
| 81U-2 | 58.50 | Hz | 98% | 300.00 | Slow UF |
| 81O-1 | 62.00 | Hz | 103% | 0.16 | Fast OF |
| 81O-2 | 61.20 | Hz | 102% | 300.00 | Slow OF |
| 79 | 329.1 | V | 95% | 300.00 | Min Reclosing Voltage Value |
| 79 | 363.7 | V | 105% | 300.00 | Max Reclosing Voltage Value |
| 79 | 59.6 | Hz | 99% | 300.00 | Min Reclosing Frequency Value |
| 79 | 60.5 | Hz | 101% | 300.00 | Max Reclosing Frequency Value |

| INVERTER INTERNAL OPERATION SETTINGS | | | |
|--------------------------------------|-----------|------------------------|---------|
| Parameter | Setting | Parameter | Setting |
| PF Set Point | 1.00 | Power Factor Control | |
| Var Control | OFF | Reactive Power Control | |
| Ramp Rate | 10%/1 sec | dIw / dt | |
| Freq Control | OFF | Speed Control | |

* voltages based off 346.4V Line to Neutral

1 ONE LINE DIAGRAM
E304 SCALE: NONE

DRAWING TITLE
ONE LINE DIAGRAM -
SYSTEM 4

| | | | |
|------------------------|------------|----------------------|-------------|
| DATE | 07/10/2020 | REVISION DESCRIPTION | PM LENG CHK |
| ISSUE FOR CONSTRUCTION | 04/23/2020 | PERMIT SET - REV. 3 | BX AD RI |
| PERMIT SET - REV. 3 | 04/23/2020 | PERMIT SET - REV. 3 | BX SK RI |
| PERMIT SET - REV. 2 | 04/23/2020 | PERMIT SET - REV. 2 | BX SK RI |
| PERMIT SET - REV. 1 | 04/23/2020 | PERMIT SET - REV. 1 | BX AD RI |

PURE POWER
5 MARINE VIEW PLAZA, HOBOKEN, NJ
WWW.PUREPOWER.COM
RICHARD A. VON
CT LICENSE NO. 06392862

GREENSKIES
180 JOHNSON STREET,
MIDDLETOWN, CT 06457
WWW.GREENSKIES.COM
a Clean Focus company

DEVELOPER
PROJECT #
PPE 00083

DC SYSTEM SIZE: 6095.440 KW
AC SYSTEM SIZE: 4980.000 KW
MODULE TYPE: CANADIAN 360W /400W
MODULE QUANTITY: 8294/7774
ORIENTATION: 25° TILT, 0° AZIMUTH

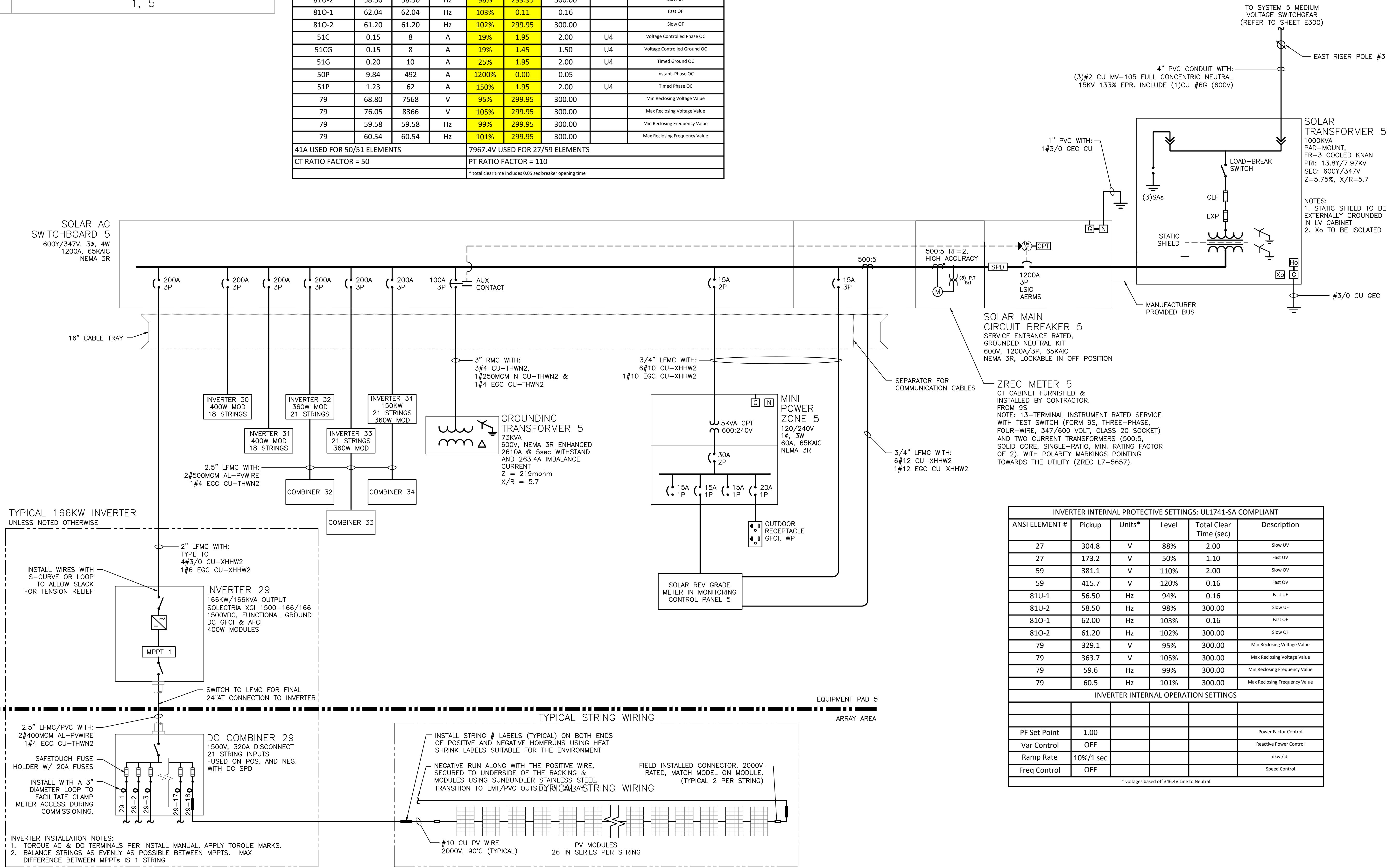
PROJECT
6095.440 KW GROUND MOUNT SYSTEM AT
STONINGTON TAUGWONK
35 TAUGWONK SPUR ROAD
STONINGTON, CT 06378

DRAWING #
E304

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

| SYSTEM 5 SUMMARY | |
|------------------|--|
| DC SYSTEM SIZE | 1,151.280 KW |
| AC SYSTEM SIZE | 980.000 KW |
| MODULE | CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG |
| MODULE QTY | 1638 / 1404 |
| INVERTER | SOLECTRIA XGI-1500 150/166, 166/166 |
| INVERTER QTY | 1, 5 |

| EXTERNAL RELAY SETTINGS - SYSTEM 5 | | | | | | | | |
|---|--------|-------|-------|---------------------------------|-------------|-------------------------|-------|-------------------------------|
| ANSI ELEMENT # | Pickup | Real | Units | Level | Delay (sec) | Total Clear Time (sec)* | Curve | Description |
| 27 | 63.73 | 7010 | V | 88% | 1.95 | 2.00 | | Slow UV |
| 27 | 36.21 | 3983 | V | 50% | 1.05 | 1.10 | | Fast UV |
| 27C | 57.94 | 6373 | V | 80% | | | | Voltage Pickup for 51C & 51CG |
| 59 | 79.67 | 8764 | V | 110% | 1.95 | 2.00 | | Slow OV |
| 59 | 86.91 | 9560 | V | 120% | 0.11 | 0.16 | | Fast OV |
| 59N | 9.41 | 1035 | V | 13% | 1.95 | 2.00 | | Neutral Shift |
| 81U-1 | 56.58 | 56.58 | Hz | 94% | 0.11 | 0.16 | | Fast UF |
| 81U-2 | 58.50 | 58.50 | Hz | 98% | 299.95 | 300.00 | | Slow UF |
| 81O-1 | 62.04 | 62.04 | Hz | 103% | 0.11 | 0.16 | | Fast OF |
| 81O-2 | 61.20 | 61.20 | Hz | 102% | 299.95 | 300.00 | | Slow OF |
| 51C | 0.15 | 8 | A | 19% | 1.95 | 2.00 | U4 | Voltage Controlled Phase OC |
| 51CG | 0.15 | 8 | A | 19% | 1.45 | 1.50 | U4 | Voltage Controlled Ground OC |
| 51G | 0.20 | 10 | A | 25% | 1.95 | 2.00 | U4 | Timed Ground OC |
| 50P | 9.84 | 492 | A | 1200% | 0.00 | 0.05 | | Instant. Phase OC |
| 51P | 1.23 | 62 | A | 150% | 1.95 | 2.00 | U4 | Timed Phase OC |
| 79 | 68.80 | 7568 | V | 95% | 299.95 | 300.00 | | Min Reclosing Voltage Value |
| 79 | 76.05 | 8366 | V | 105% | 299.95 | 300.00 | | Max Reclosing Voltage Value |
| 79 | 59.58 | 59.58 | Hz | 99% | 299.95 | 300.00 | | Min Reclosing Frequency Value |
| 79 | 60.54 | 60.54 | Hz | 101% | 299.95 | 300.00 | | Max Reclosing Frequency Value |
| 41A USED FOR 50/51 ELEMENTS | | | | 7967.4V USED FOR 27/59 ELEMENTS | | | | |
| CT RATIO FACTOR = 50 | | | | PT RATIO FACTOR = 110 | | | | |
| * total clear time includes 0.05 sec breaker opening time | | | | | | | | |



| INVERTER INTERNAL PROTECTIVE SETTINGS: UL1741-SA COMPLIANT | | | | | |
|--|--------|--------|-------|------------------------|-------------------------------|
| ANSI ELEMENT # | Pickup | Units* | Level | Total Clear Time (sec) | Description |
| 27 | 304.8 | V | 88% | 2.00 | Slow UV |
| 27 | 173.2 | V | 50% | 1.10 | Fast UV |
| 59 | 381.1 | V | 110% | 2.00 | Slow OV |
| 59 | 415.7 | V | 120% | 0.16 | Fast OV |
| 81U-1 | 56.50 | Hz | 94% | 0.16 | Fast UF |
| 81U-2 | 58.50 | Hz | 98% | 300.00 | Slow UF |
| 81O-1 | 62.00 | Hz | 103% | 0.16 | Fast OF |
| 81O-2 | 61.20 | Hz | 102% | 300.00 | Slow OF |
| 79 | 329.1 | V | 95% | 300.00 | Min Reclosing Voltage Value |
| 79 | 363.7 | V | 105% | 300.00 | Max Reclosing Voltage Value |
| 79 | 59.6 | Hz | 99% | 300.00 | Min Reclosing Frequency Value |
| 79 | 60.5 | Hz | 101% | 300.00 | Max Reclosing Frequency Value |

| INVERTER INTERNAL OPERATION SETTINGS | | | | | |
|--------------------------------------|-----------|--|--|--|------------------------|
| PF Set Point | 1.00 | | | | Power Factor Control |
| Var Control | OFF | | | | Reactive Power Control |
| Ramp Rate | 10%/1 sec | | | | dIw / dt |
| Freq Control | OFF | | | | Speed Control |

* voltages based off 346.4V Line to Neutral

1 ONE LINE DIAGRAM
E305 SCALE: NONE

DRAWING TITLE
ONE LINE DIAGRAM -
SYSTEM 5

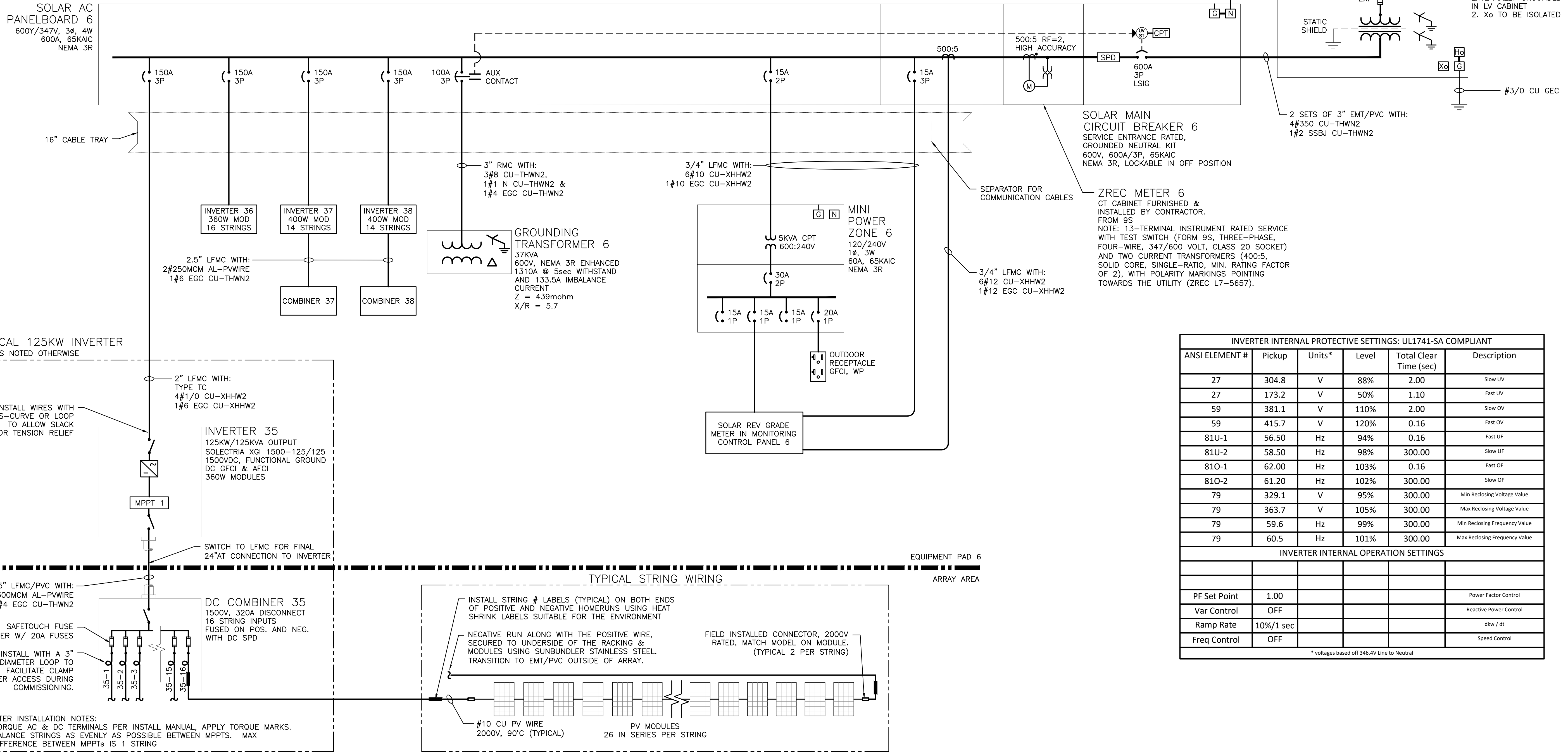
PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DC SYSTEM SIZE: 6095.440 KW
 AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG
 MODULE QUANTITY: 1638 / 1404
 ORIENTATION: 25° TILT, 0° AZIMUTH
 DRAWING # E305
 DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM
 PURE POWER ENERGY SERVICES, INC.
 5 MARINE VIEW PLAZA, HOBOKEN, NJ 07030
 RICHARD A. VONN
 CT LICENSE NO. 03629282
 REVISION DESCRIPTION: ISSUE FOR CONSTRUCTION
 DATE: 07/10/2020
 PERMIT SET - REV. 3
 04/23/2020
 PERMIT SET - REV. 2
 04/23/2020
 PERMIT SET - REV. 1
 04/23/2020

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

| SYSTEM 6 SUMMARY | |
|------------------|--|
| DC SYSTEM SIZE | 590.720 KW |
| AC SYSTEM SIZE | 500.000 KW |
| MODULE | CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG |
| MODULE QTY | 832 / 728 |
| INVERTER | SOLECTRIA XGI-1500 125/125 |
| INVERTER QTY | 4 |

| EXTERNAL RELAY SETTINGS - SYSTEM 6 | | | | | | | | |
|---|--------|-------|-------|---------------------------------|-------------|-------------------------|-------|-------------------------------|
| ANSI ELEMENT # | Pickup | Real | Units | Level | Delay (sec) | Total Clear Time (sec)* | Curve | Description |
| 27 | 63.73 | 7010 | V | 88% | 1.95 | 2.00 | | Slow UV |
| 27 | 36.21 | 3983 | V | 50% | 1.05 | 1.10 | | Fast UV |
| 27C | 57.94 | 6373 | V | 80% | | | | Voltage Pickup for SIC & SICG |
| 59 | 79.67 | 8764 | V | 110% | 1.95 | 2.00 | | Slow OV |
| 59 | 86.91 | 9560 | V | 120% | 0.11 | 0.16 | | Fast OV |
| 59N | 9.41 | 1035 | V | 13% | 1.95 | 2.00 | | Neutral Shift |
| 81U-1 | 56.58 | 56.58 | Hz | 94% | 0.11 | 0.16 | | Fast UF |
| 81U-2 | 58.50 | 58.50 | Hz | 98% | 299.95 | 300.00 | | Slow UF |
| 81O-1 | 62.04 | 62.04 | Hz | 103% | 0.11 | 0.16 | | Fast OF |
| 81O-2 | 61.20 | 61.20 | Hz | 102% | 299.95 | 300.00 | | Slow OF |
| 51C | 0.19 | 4 | A | 19% | 1.95 | 2.00 | U4 | Voltage Controlled Phase OC |
| 51CG | 0.19 | 4 | A | 19% | 1.45 | 1.50 | U4 | Voltage Controlled Ground OC |
| 51G | 0.26 | 5 | A | 25% | 1.95 | 2.00 | U4 | Timed Ground OC |
| 50P | 12.55 | 251 | A | 1200% | 0.00 | 0.05 | | Instant Phase OC |
| 51P | 1.56 | 31 | A | 150% | 1.95 | 2.00 | U4 | Timed Phase OC |
| 79 | 68.80 | 7568 | V | 95% | 299.95 | 300.00 | | Min Reclosing Voltage Value |
| 79 | 76.05 | 8366 | V | 105% | 299.95 | 300.00 | | Max Reclosing Voltage Value |
| 79 | 59.58 | 59.58 | Hz | 99% | 299.95 | 300.00 | | Min Reclosing Frequency Value |
| 79 | 60.54 | 60.54 | Hz | 101% | 299.95 | 300.00 | | Max Reclosing Frequency Value |
| 20.91A USED FOR 50/51 ELEMENTS | | | | 7967.4V USED FOR 27/59 ELEMENTS | | | | |
| CT RATIO FACTOR = 20 | | | | PT RATIO FACTOR = 110 | | | | |
| * total clear time includes 0.05 sec breaker opening time | | | | | | | | |

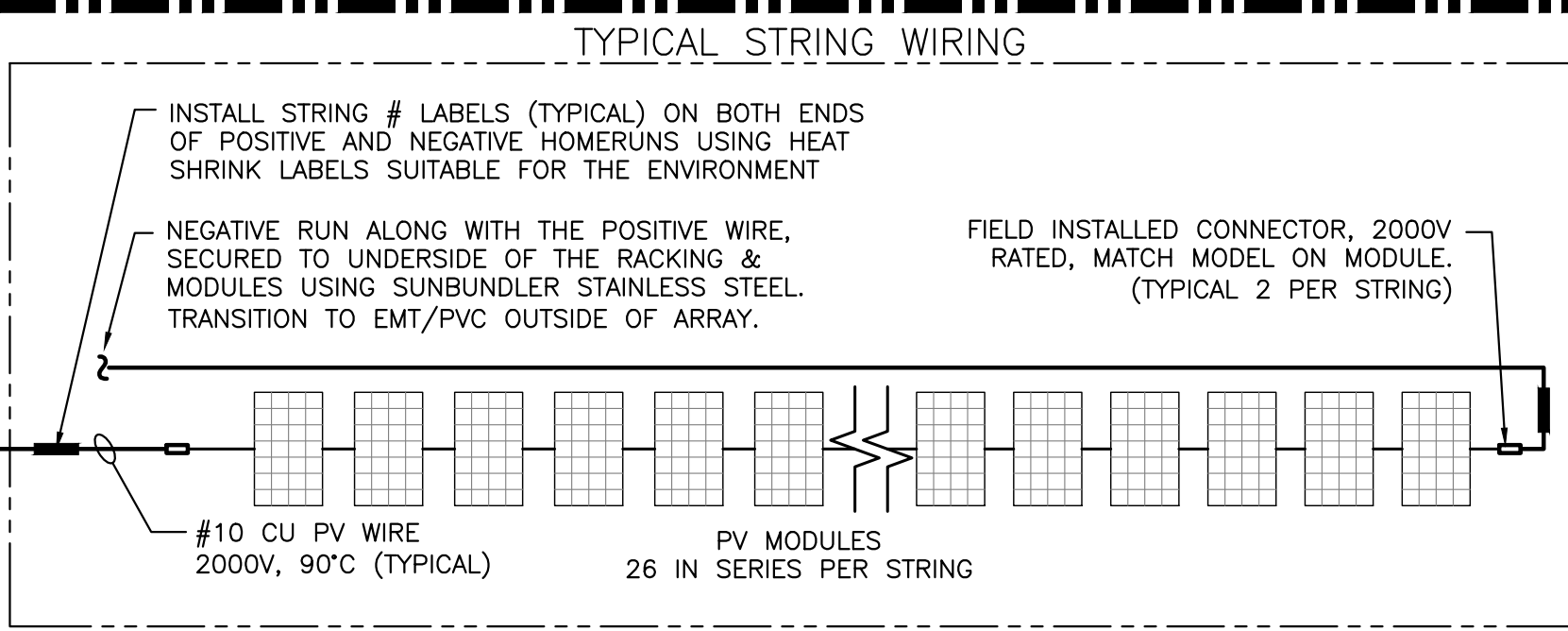
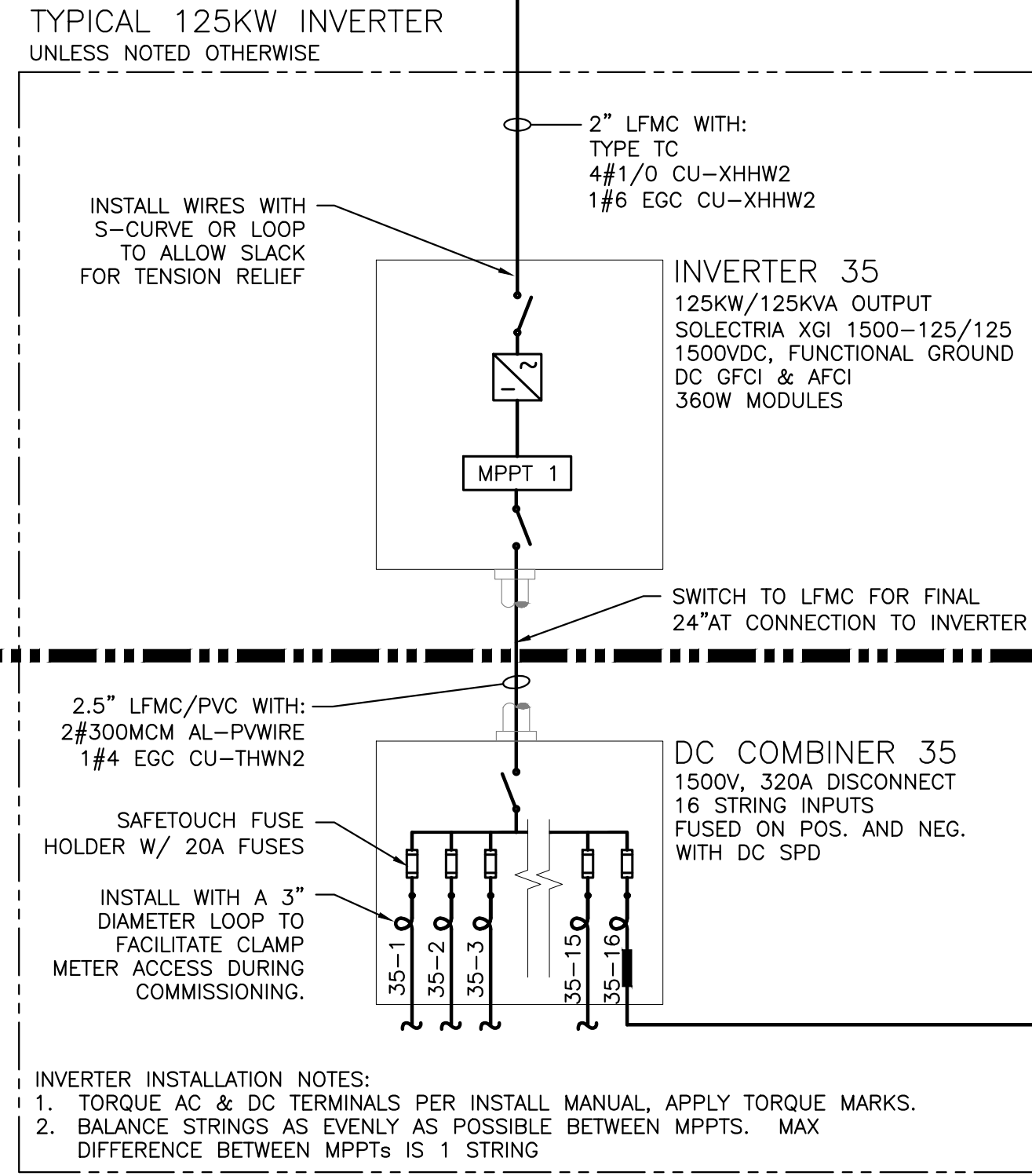
SOLAR AC PANELBOARD 6
600Y/347V, 3Ø, 4W
600A, 65KAIC
NEMA 3R



| INVERTER INTERNAL PROTECTIVE SETTINGS: UL1741-SA COMPLIANT | | | | | |
|--|--------|--------|-------|------------------------|-------------------------------|
| ANSI ELEMENT # | Pickup | Units* | Level | Total Clear Time (sec) | Description |
| 27 | 304.8 | V | 88% | 2.00 | Slow UV |
| 27 | 173.2 | V | 50% | 1.10 | Fast UV |
| 59 | 381.1 | V | 110% | 2.00 | Slow OV |
| 59 | 415.7 | V | 120% | 0.16 | Fast OV |
| 81U-1 | 56.50 | Hz | 94% | 0.16 | Fast UF |
| 81U-2 | 58.50 | Hz | 98% | 300.00 | Slow UF |
| 81O-1 | 62.00 | Hz | 103% | 0.16 | Fast OF |
| 81O-2 | 61.20 | Hz | 102% | 300.00 | Slow OF |
| 79 | 329.1 | V | 95% | 300.00 | Min Reclosing Voltage Value |
| 79 | 363.7 | V | 105% | 300.00 | Max Reclosing Voltage Value |
| 79 | 59.6 | Hz | 99% | 300.00 | Min Reclosing Frequency Value |
| 79 | 60.5 | Hz | 101% | 300.00 | Max Reclosing Frequency Value |

| INVERTER INTERNAL OPERATION SETTINGS | | | |
|--------------------------------------|-----------|------------------------|-------|
| Setting | Value | Control | Notes |
| PF Set Point | 1.00 | Power Factor Control | |
| Var Control | OFF | Reactive Power Control | |
| Ramp Rate | 10%/1 sec | dkw / dt | |
| Freq Control | OFF | Speed Control | |

* voltages based off 346.4V Line to Neutral



1 ONE LINE DIAGRAM
E306 SCALE: NONE

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DC SYSTEM SIZE: 4980.000 KW
 AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG
 MODULE QUANTITY: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH
 DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM
 CT LICENSE NO. 03629262
 REVISION DESCRIPTION: PERMIT SET - REV. 3, PERMIT SET - REV. 2, PERMIT SET - REV. 1, PERMIT SET - REV. 0
 DATE: 04/23/2020, 04/23/2020, 04/23/2020, 02/19/2020

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
PLOT DATE: 7/13/2020 9:11 AM

| AC FEEDER CALCULATIONS - SYSTEM 1 | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---------|----------------------|------------|-----------|-------------|----------------------|----------------|--------------|----------------------------|----------------------------|--------------------------|----------------------|-----------------------------|---------------------------|
| EQUIPMENT SUPPLIED | FED FROM | VOLTAGE | FULL LOAD AMPS 'FLA' | FLA x 1.25 | OCPD SIZE | GROUND SIZE | CONDUCTORS PER PHASE | CONDUCTOR SIZE | 75° AMPACITY | C.O.U. DERATE AMBIENT TEMP | C.O.U. DERATE CONDUIT FILL | 90° AMPACITY WITH C.O.U. | FEEDER LENGTH (FEET) | SEGMENT VOLTAGE DROP AT FLA | TOTAL VOLTAGE DROP AT FLA |
| SOLAR AC SWITCHBOARD 1 | SOLAR TRANSFORMER 1 | 600 | 960.0 | 1200.0 | 1200 | CU #2 SSBJ | 4 | CU 350MCM | 1240 | 0.96 | 1.00 | 1344.0 | 20 | 0.05% | 0.05% |
| INVERTER 1 (360W MODULE) | SOLAR AC SWITCHBOARD 1 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 20 | 0.08% | 0.14% |
| INVERTER 2 (360W MODULE) | SOLAR AC SWITCHBOARD 1 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 25 | 0.10% | 0.16% |
| INVERTER 3 (360W MODULE) | SOLAR AC SWITCHBOARD 1 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 30 | 0.12% | 0.18% |
| INVERTER 4 (360W MODULE) | SOLAR AC SWITCHBOARD 1 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 35 | 0.15% | 0.20% |
| INVERTER 5 (400W MODULE) | SOLAR AC SWITCHBOARD 1 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 35 | 0.15% | 0.20% |
| INVERTER 6 (400W MODULE) | SOLAR AC SWITCHBOARD 1 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 30 | 0.12% | 0.18% |
| INVERTER 7 (400W MODULE) | SOLAR AC SWITCHBOARD 1 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 25 | 0.10% | 0.16% |
| INVERTER 8 (400W MODULE) | SOLAR AC SWITCHBOARD 1 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 20 | 0.08% | 0.14% |

AVERAGE AC VOLTAGE DROP FROM SOLAR TRANSFORMER TO INVERTERS: 0.17%

| AC FEEDER CALCULATIONS - SYSTEM 2 | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---------|----------------------|------------|-----------|-------------|----------------------|----------------|--------------|----------------------------|----------------------------|--------------------------|----------------------|-----------------------------|---------------------------|
| EQUIPMENT SUPPLIED | FED FROM | VOLTAGE | FULL LOAD AMPS 'FLA' | FLA x 1.25 | OCPD SIZE | GROUND SIZE | CONDUCTORS PER PHASE | CONDUCTOR SIZE | 75° AMPACITY | C.O.U. DERATE AMBIENT TEMP | C.O.U. DERATE CONDUIT FILL | 90° AMPACITY WITH C.O.U. | FEEDER LENGTH (FEET) | SEGMENT VOLTAGE DROP AT FLA | TOTAL VOLTAGE DROP AT FLA |
| SOLAR AC SWITCHBOARD 2 | SOLAR TRANSFORMER 2 | 600 | 960.0 | 1200.0 | 1200 | CU #2 SSBJ | 4 | CU 350MCM | 1240 | 0.96 | 1.00 | 1344.0 | 20 | 0.05% | 0.05% |
| INVERTER 9 (400W MODULE) | SOLAR AC SWITCHBOARD 2 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 20 | 0.08% | 0.14% |
| INVERTER 10 (400W MODULE) | SOLAR AC SWITCHBOARD 2 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 25 | 0.10% | 0.16% |
| INVERTER 11 (400W MODULE) | SOLAR AC SWITCHBOARD 2 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 30 | 0.12% | 0.18% |
| INVERTER 12 (400W MODULE) | SOLAR AC SWITCHBOARD 2 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 35 | 0.15% | 0.20% |
| INVERTER 13 (360W MODULE) | SOLAR AC SWITCHBOARD 2 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 35 | 0.15% | 0.20% |
| INVERTER 14 (360W MODULE) | SOLAR AC SWITCHBOARD 2 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 30 | 0.12% | 0.18% |
| INVERTER 15 (360W MODULE) | SOLAR AC SWITCHBOARD 2 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 25 | 0.10% | 0.16% |
| INVERTER 16 (360W MODULE) | SOLAR AC SWITCHBOARD 2 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 20 | 0.08% | 0.14% |

AVERAGE AC VOLTAGE DROP FROM SOLAR TRANSFORMER TO INVERTERS: 0.17%

| AC FEEDER CALCULATIONS - SYSTEM 3 | | | | | | | | | | | | | | | |
|-----------------------------------|-----------------------|---------|----------------------|------------|-----------|-------------|----------------------|----------------|--------------|----------------------------|----------------------------|--------------------------|----------------------|-----------------------------|---------------------------|
| EQUIPMENT SUPPLIED | FED FROM | VOLTAGE | FULL LOAD AMPS 'FLA' | FLA x 1.25 | OCPD SIZE | GROUND SIZE | CONDUCTORS PER PHASE | CONDUCTOR SIZE | 75° AMPACITY | C.O.U. DERATE AMBIENT TEMP | C.O.U. DERATE CONDUIT FILL | 90° AMPACITY WITH C.O.U. | FEEDER LENGTH (FEET) | SEGMENT VOLTAGE DROP AT FLA | TOTAL VOLTAGE DROP AT FLA |
| SOLAR AC PANELBOARD 3 | SOLAR TRANSFORMER 3 | 600 | 480.0 | 600.0 | 600 | CU #2 SSBJ | 2 | CU 350MCM | 620 | 0.96 | 1.00 | 672.0 | 15 | 0.04% | 0.04% |
| INVERTER 17 (360W MODULE) | SOLAR AC PANELBOARD 3 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 20 | 0.08% | 0.12% |
| INVERTER 18 (360W MODULE) | SOLAR AC PANELBOARD 3 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 25 | 0.10% | 0.14% |
| INVERTER 19 (400W MODULE) | SOLAR AC PANELBOARD 3 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 25 | 0.10% | 0.14% |
| INVERTER 20 (400W MODULE) | SOLAR AC PANELBOARD 3 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 20 | 0.08% | 0.12% |

AVERAGE AC VOLTAGE DROP FROM SOLAR TRANSFORMER TO INVERTERS: 0.13%

| AC FEEDER CALCULATIONS - SYSTEM 4 | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---------|----------------------|------------|-----------|-------------|----------------------|----------------|--------------|----------------------------|----------------------------|--------------------------|----------------------|-----------------------------|---------------------------|
| EQUIPMENT SUPPLIED | FED FROM | VOLTAGE | FULL LOAD AMPS 'FLA' | FLA x 1.25 | OCPD SIZE | GROUND SIZE | CONDUCTORS PER PHASE | CONDUCTOR SIZE | 75° AMPACITY | C.O.U. DERATE AMBIENT TEMP | C.O.U. DERATE CONDUIT FILL | 90° AMPACITY WITH C.O.U. | FEEDER LENGTH (FEET) | SEGMENT VOLTAGE DROP AT FLA | TOTAL VOLTAGE DROP AT FLA |
| SOLAR AC SWITCHBOARD 4 | SOLAR TRANSFORMER 4 | 600 | 960.0 | 1200.0 | 1200 | CU #2 SSBJ | 4 | CU 350MCM | 1240 | 0.96 | 1.00 | 1344.0 | 20 | 0.05% | 0.05% |
| INVERTER 21 (360W MODULE) | SOLAR AC SWITCHBOARD 4 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 20 | 0.08% | 0.14% |
| INVERTER 22 (360W MODULE) | SOLAR AC SWITCHBOARD 4 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 25 | 0.10% | 0.16% |
| INVERTER 23 (360W MODULE) | SOLAR AC SWITCHBOARD 4 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 30 | 0.12% | 0.18% |
| INVERTER 24 (360W MODULE) | SOLAR AC SWITCHBOARD 4 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 35 | 0.15% | 0.20% |
| INVERTER 25 (400W MODULE) | SOLAR AC SWITCHBOARD 4 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 35 | 0.15% | 0.20% |
| INVERTER 26 (400W MODULE) | SOLAR AC SWITCHBOARD 4 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 30 | 0.12% | 0.18% |
| INVERTER 27 (400W MODULE) | SOLAR AC SWITCHBOARD 4 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 25 | 0.10% | 0.16% |
| INVERTER 28 (400W MODULE) | SOLAR AC SWITCHBOARD 4 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 20 | 0.08% | 0.14% |

AVERAGE AC VOLTAGE DROP FROM SOLAR TRANSFORMER TO INVERTERS: 0.17%

| AC FEEDER CALCULATIONS - SYSTEM 5 | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---------|----------------------|------------|-----------|-------------|----------------------|----------------|--------------|----------------------------|----------------------------|--------------------------|----------------------|-----------------------------|---------------------------|
| EQUIPMENT SUPPLIED | FED FROM | VOLTAGE | FULL LOAD AMPS 'FLA' | FLA x 1.25 | OCPD SIZE | GROUND SIZE | CONDUCTORS PER PHASE | CONDUCTOR SIZE | 75° AMPACITY | C.O.U. DERATE AMBIENT TEMP | C.O.U. DERATE CONDUIT FILL | 90° AMPACITY WITH C.O.U. | FEEDER LENGTH (FEET) | SEGMENT VOLTAGE DROP AT FLA | TOTAL VOLTAGE DROP AT FLA |
| SOLAR AC SWITCHBOARD 5 | SOLAR TRANSFORMER 5 | 600 | 960.0 | 1200.0 | 1200 | CU #2 SSBJ | 4 | CU 350MCM | 1240 | 0.96 | 1.00 | 1344.0 | 20 | 0.05% | 0.05% |
| INVERTER 29 (400W MODULE) | SOLAR AC SWITCHBOARD 5 | 600 | 160.0 | 200.0 | 200 | CU #6 | 1 | CU #3/0 | 200 | 0.96 | 1.00 | 216.0 | 20 | 0.07% | 0.13% |
| INVERTER 30 (400W MODULE) | SOLAR AC SWITCHBOARD 5 | 600 | 160.0 | 200.0 | 200 | CU #6 | 1 | CU #3/0 | 200 | 0.96 | 1.00 | 216.0 | 25 | 0.09% | 0.15% |
| INVERTER 31 (400W MODULE) | SOLAR AC SWITCHBOARD 5 | 600 | 160.0 | 200.0 | 200 | CU #6 | 1 | CU #3/0 | 200 | 0.96 | 1.00 | 216.0 | 30 | 0.11% | 0.16% |
| INVERTER 32 (360W MODULE) | SOLAR AC SWITCHBOARD 5 | 600 | 160.0 | 200.0 | 200 | CU #6 | 1 | CU #3/0 | 200 | 0.96 | 1.00 | 216.0 | 30 | 0.11% | 0.16% |
| INVERTER 33 (360W MODULE) | SOLAR AC SWITCHBOARD 5 | 600 | 160.0 | 200.0 | 200 | CU #6 | 1 | CU #3/0 | 200 | 0.96 | 1.00 | 216.0 | 25 | 0.09% | 0.15% |
| INVERTER 34 (360W MODULE) | SOLAR AC SWITCHBOARD 5 | 600 | 160.0 | 200.0 | 200 | CU #6 | 1 | CU #3/0 | 200 | 0.96 | 1.00 | 216.0 | 20 | 0.07% | 0.13% |

AVERAGE AC VOLTAGE DROP FROM SOLAR TRANSFORMER TO INVERTERS: 0.15%

| AC FEEDER CALCULATIONS - SYSTEM 6 | | | | | | | | | | | | | | | |
|-----------------------------------|-----------------------|---------|----------------------|------------|-----------|-------------|----------------------|----------------|--------------|----------------------------|----------------------------|--------------------------|----------------------|-----------------------------|---------------------------|
| EQUIPMENT SUPPLIED | FED FROM | VOLTAGE | FULL LOAD AMPS 'FLA' | FLA x 1.25 | OCPD SIZE | GROUND SIZE | CONDUCTORS PER PHASE | CONDUCTOR SIZE | 75° AMPACITY | C.O.U. DERATE AMBIENT TEMP | C.O.U. DERATE CONDUIT FILL | 90° AMPACITY WITH C.O.U. | FEEDER LENGTH (FEET) | SEGMENT VOLTAGE DROP AT FLA | TOTAL VOLTAGE DROP AT FLA |
| SOLAR AC PANELBOARD 6 | SOLAR TRANSFORMER 6 | 600 | 480.0 | 600.0 | 600 | CU #2 SSBJ | 2 | CU 350MCM | 620 | 0.96 | 1.00 | 672.0 | 15 | 0.04% | 0.04% |
| INVERTER 35 (360W MODULE) | SOLAR AC PANELBOARD 6 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 20 | 0.08% | 0.12% |
| INVERTER 36 (360W MODULE) | SOLAR AC PANELBOARD 6 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 25 | 0.10% | 0.14% |
| INVERTER 37 (400W MODULE) | SOLAR AC PANELBOARD 6 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 25 | 0.10% | 0.14% |
| INVERTER 38 (400W MODULE) | SOLAR AC PANELBOARD 6 | 600 | 120.0 | 150.0 | 150 | CU #6 | 1 | CU #1/0 | 150 | 0.96 | 1.00 | 163.2 | 20 | 0.08% | 0.12% |

AVERAGE AC VOLTAGE DROP FROM SOLAR TRANSFORMER TO INVERTERS: 0.13%

PURE POWER
5 MARINE VIEW PLAZA, HOBOKEN, NJ
WWW.PUREPOWER.COM
CT LICENSE NO. 0362982

DATE: 03/13/2020
PERMIT SET - REV. 1
PERMIT SET

REVISION DESCRIPTION
DATE
BY
AD
RI
BY
AD
RI
BY
AD
RI

GREENSKIES
180 JOHNSON STREET,
MIDDLETOWN, CT 06457
WWW.GREENSKIES.COM

Greenskies
a Clean Focus company

DEVELOPER
PROJECT # 00083
PPE 00083

DC SYSTEM SIZE: 6095.440 KW
AC SYSTEM SIZE: 4980.000 KW
MODULE TYPE: CANADIAN 360W /400W
MODULE QUANTITY: 8294/7774
ORIENTATION: 25° TILT, 0° AZIMUTH

PROJECT
6095.440 KW GROUND MOUNT SYSTEM AT
STONINGTON TAUGWONK
35 TAUGWONK SPUR ROAD
STONINGTON, CT 06378

THE STRING MAX CURRENT IS CALCULATED BY SYSTEM ADVISOR MODEL SIMULATION PROGRAM PROVIDED BY THE NATIONAL RENEWABLE ENERGY LABORATORY, REFERENCE SAND 2004-3535, PHOTOVOLTAIC ARRAY PERFORMANCE MODEL, AS ALLOWABLE BY NEC 690.8(A)(1)(2), THE CALCULATED CURRENT IS 79% OF THE VALUE USING 690.8(A)(1)(1).

DC FEEDER CALCULATIONS table with columns: CIRCUIT DESCRIPTION, FEEDER SIZING, CONDUCTOR CHECK PER 690.8(B)(1), CONDUCTOR CHECK PER 690.8(B)(2), TERMINAL CHECK, OCPD CHECK, VOLTAGE DROP CALCS. Includes 38 rows of data for various circuit boxes (CB 1-38) with specifications for voltage, current, conductor size, and drop.

NOTE: DISTANCES ARE ESTIMATES GENERATED FOR ENGINEER'S CALCULATIONS, CONTRACTOR IS RESPONSIBLE FOR OWN MEASUREMENTS AND TAKEOFFS.

MODULE SPECIFICATIONS table for CS3U-360PB-AG (10% Gain) with columns for Power [W], Isc [A], Imp [A], Voc [V], Vmp [V], and beta Voc [%/degC].

MODULE SPECIFICATIONS table for CS3W-400PB-AG (10% Gain) with columns for Power [W], Isc [A], Imp [A], Voc [V], Vmp [V], and beta Voc [%/degC].

MV CONDUCTOR SPECIFICATIONS table with columns for Full Load Amps, Conductor Size, Conductor Material, Full Conductor Spec, NEC Table Reference, Conduit, Voltage Drop, OCPD Type, Fuse Ampacity, and Compliant with 240.101(A)?

DC STRING WIRING CALCULATION table with columns for String Isc, Maximum Circuit Current, Max # of Wires per Conduit, Conduit Fill Derate, Max Ambient Temperature, Temperature Derate, Wire Gauge, 75Deg Ampacity without COU adjustment, 90Deg Ampacity without COU adjustment, 90Deg Ampacity with COU adjustment, PV Source Circuit Fuse Rating, Available Fault Current from all parallel sources, and Fuse Rating.

PLUT DATE: 7/13/2020 9:11 AM

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RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

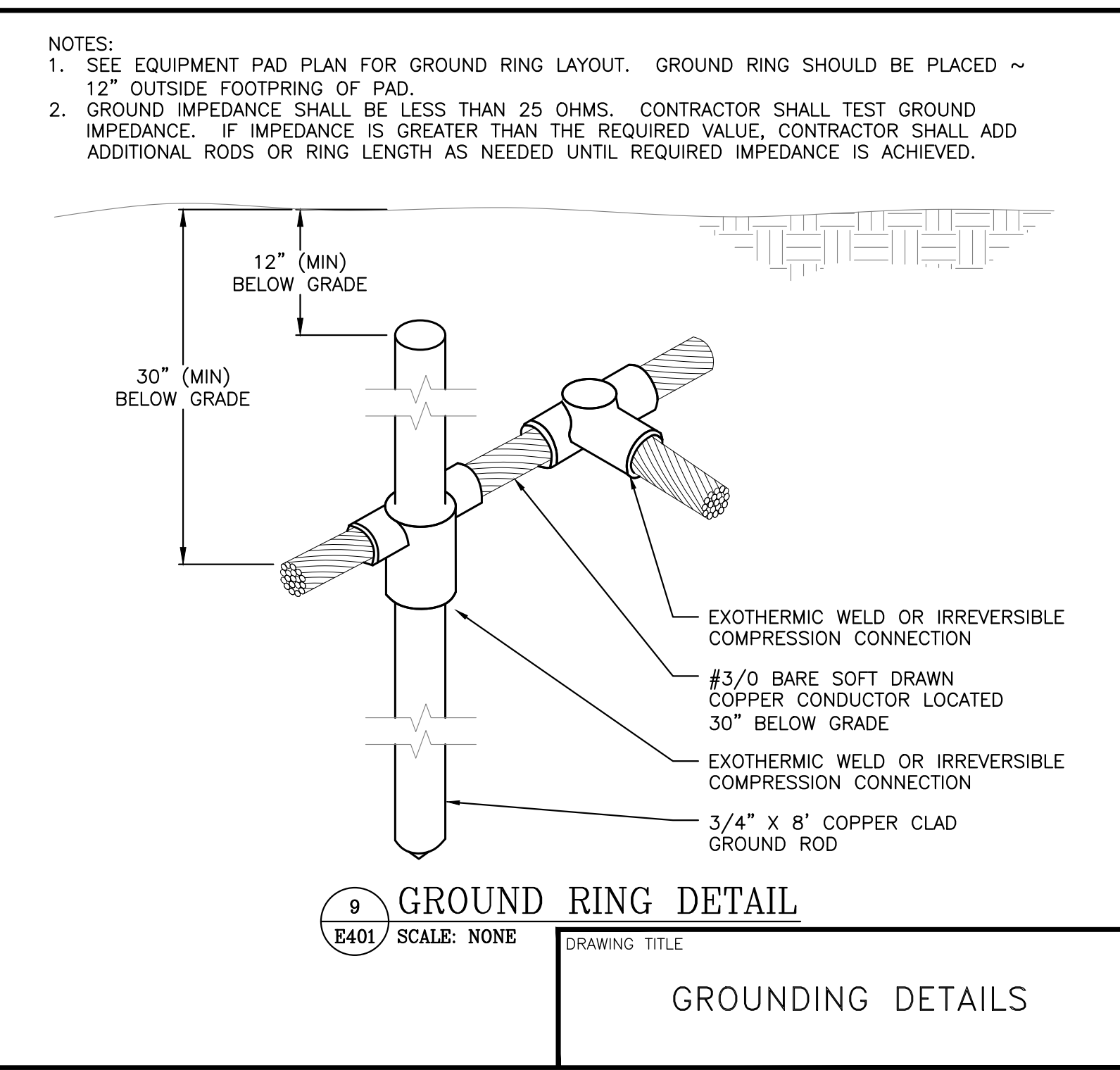
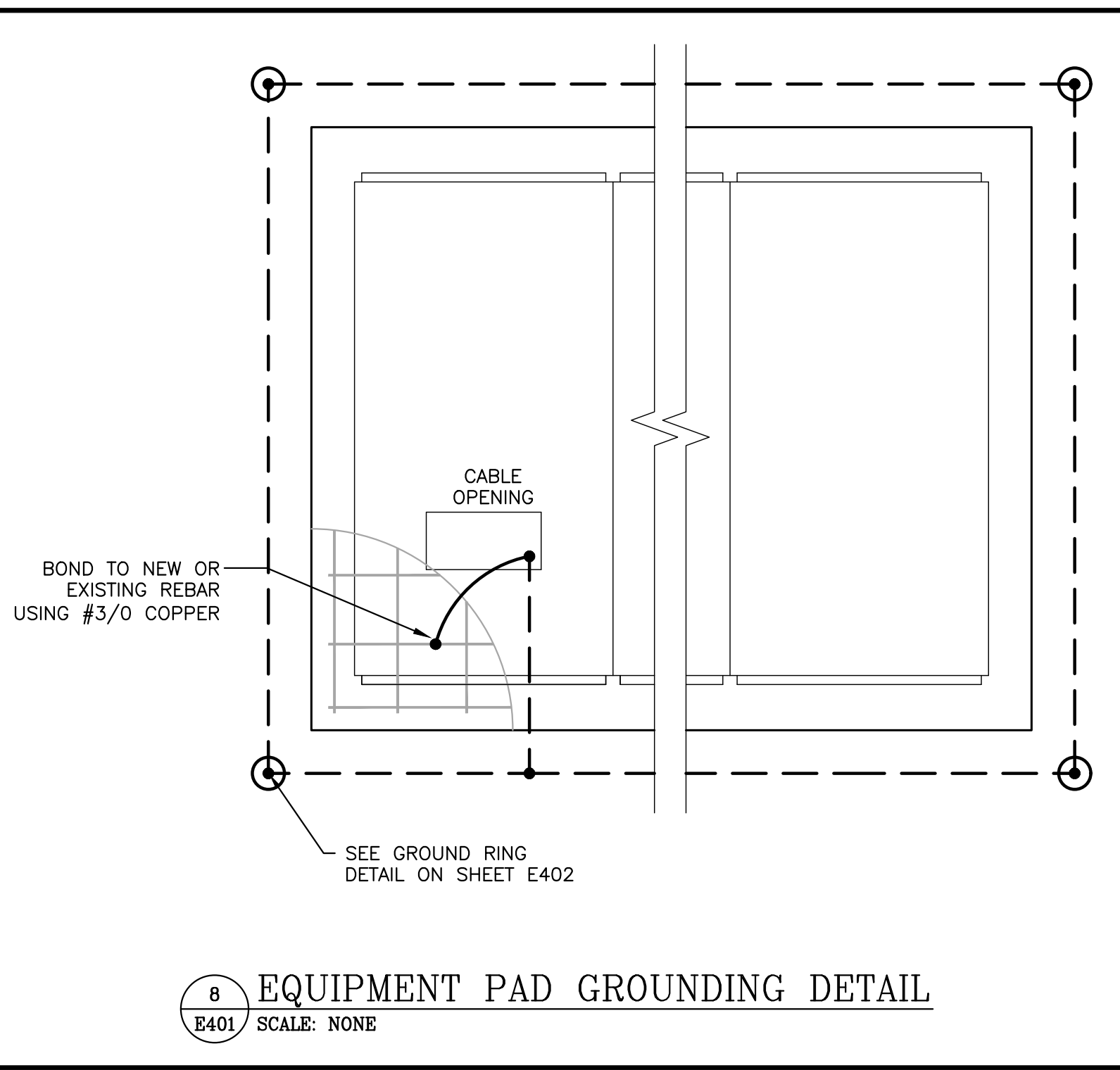
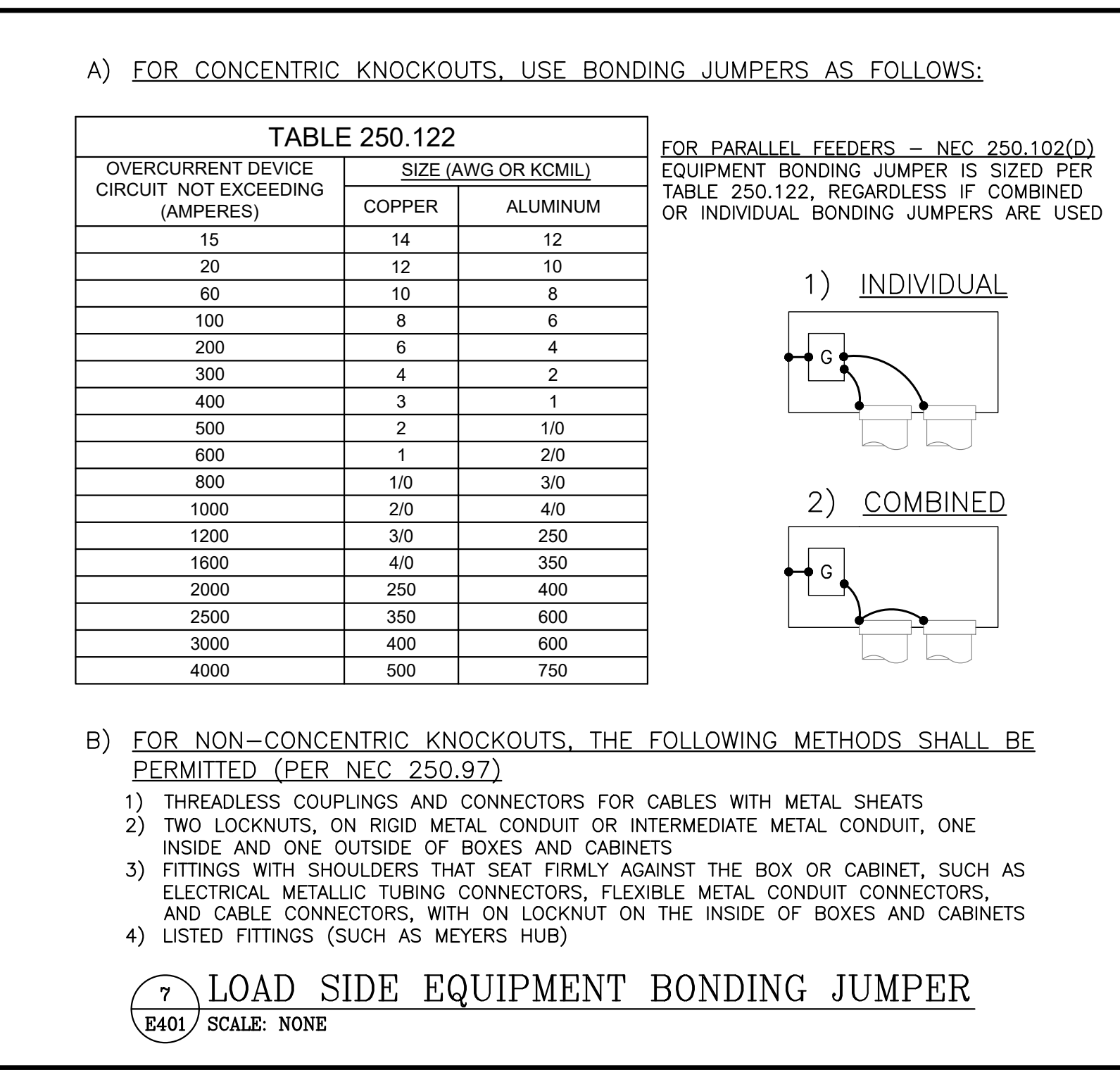
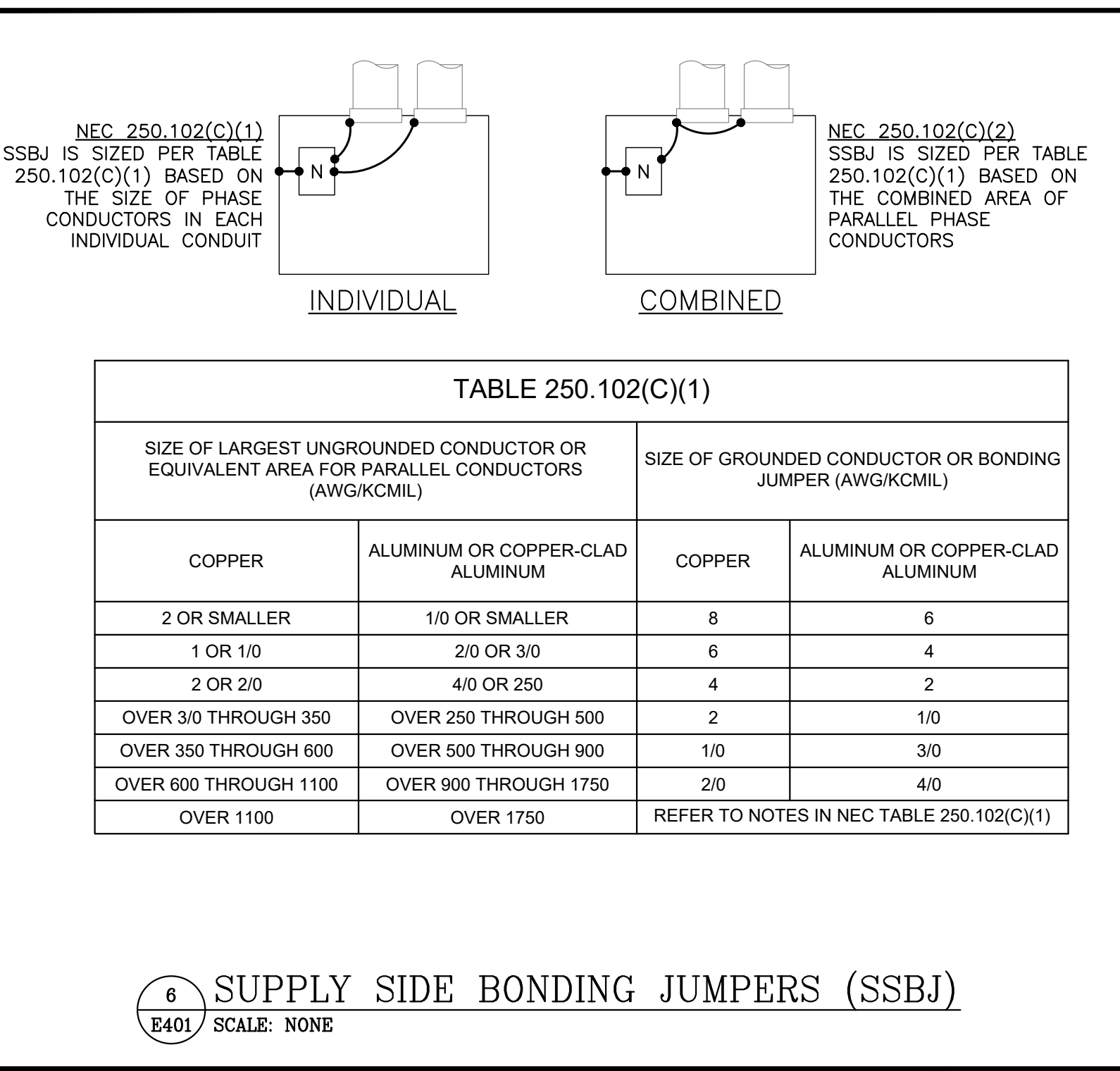
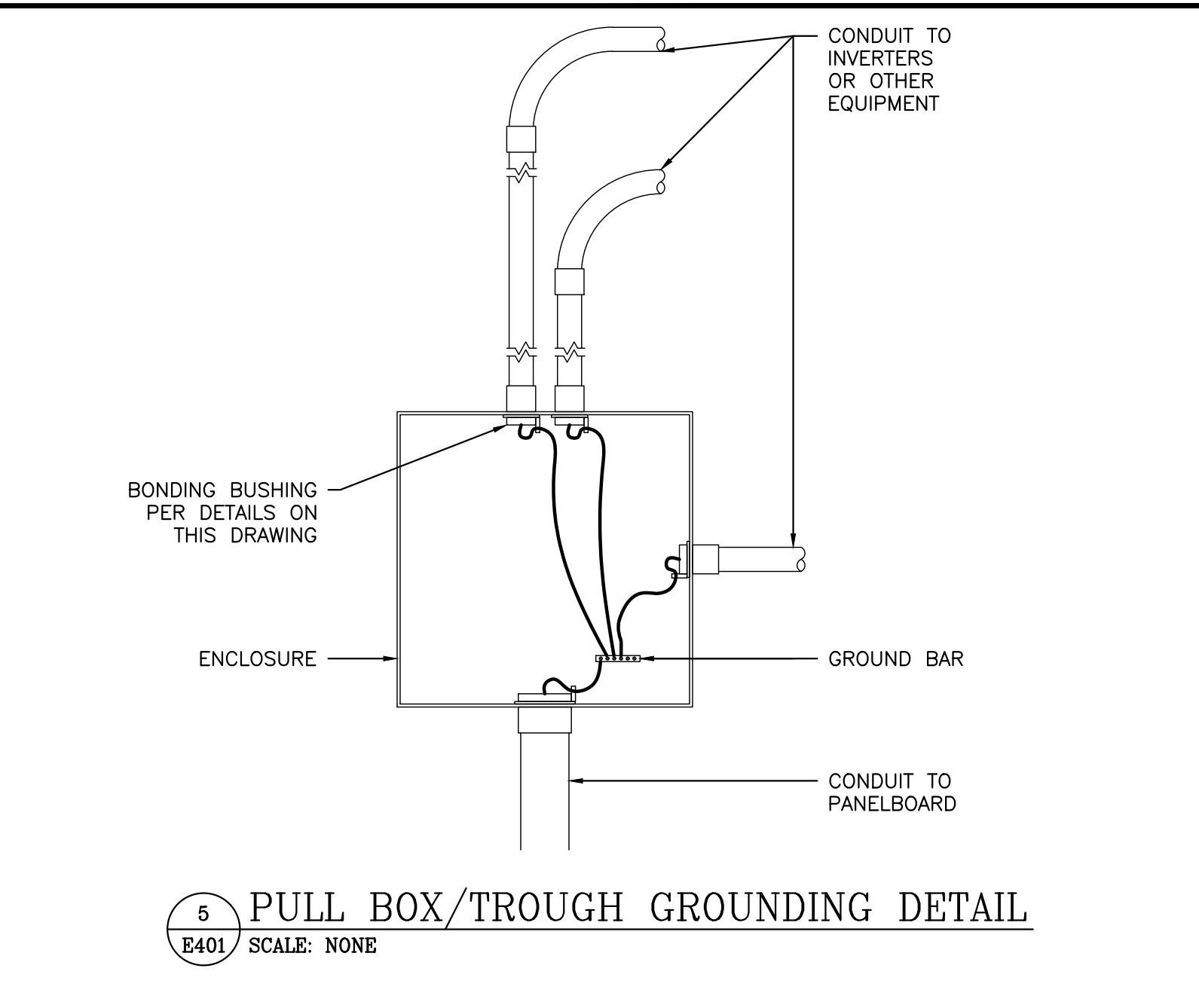
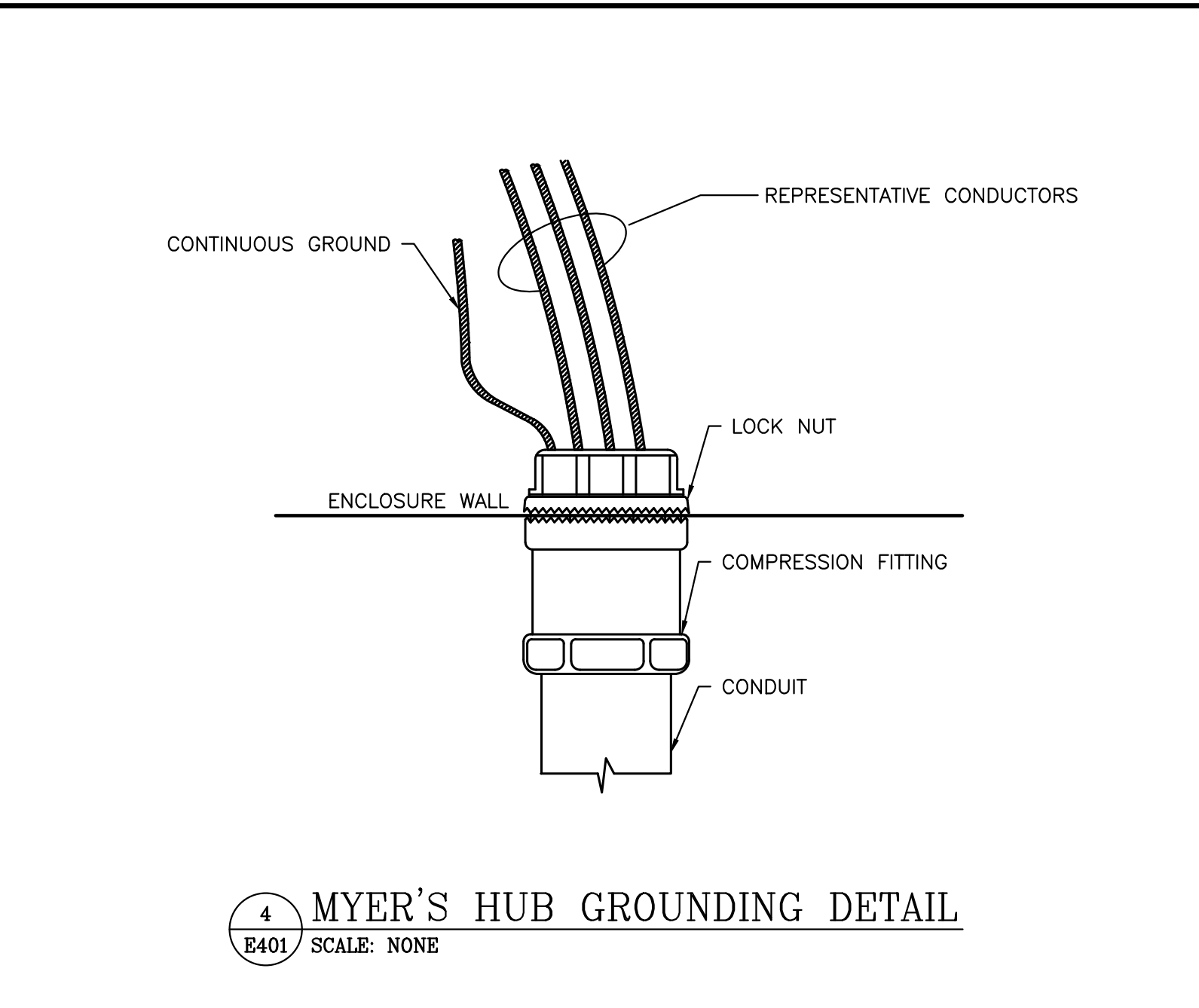
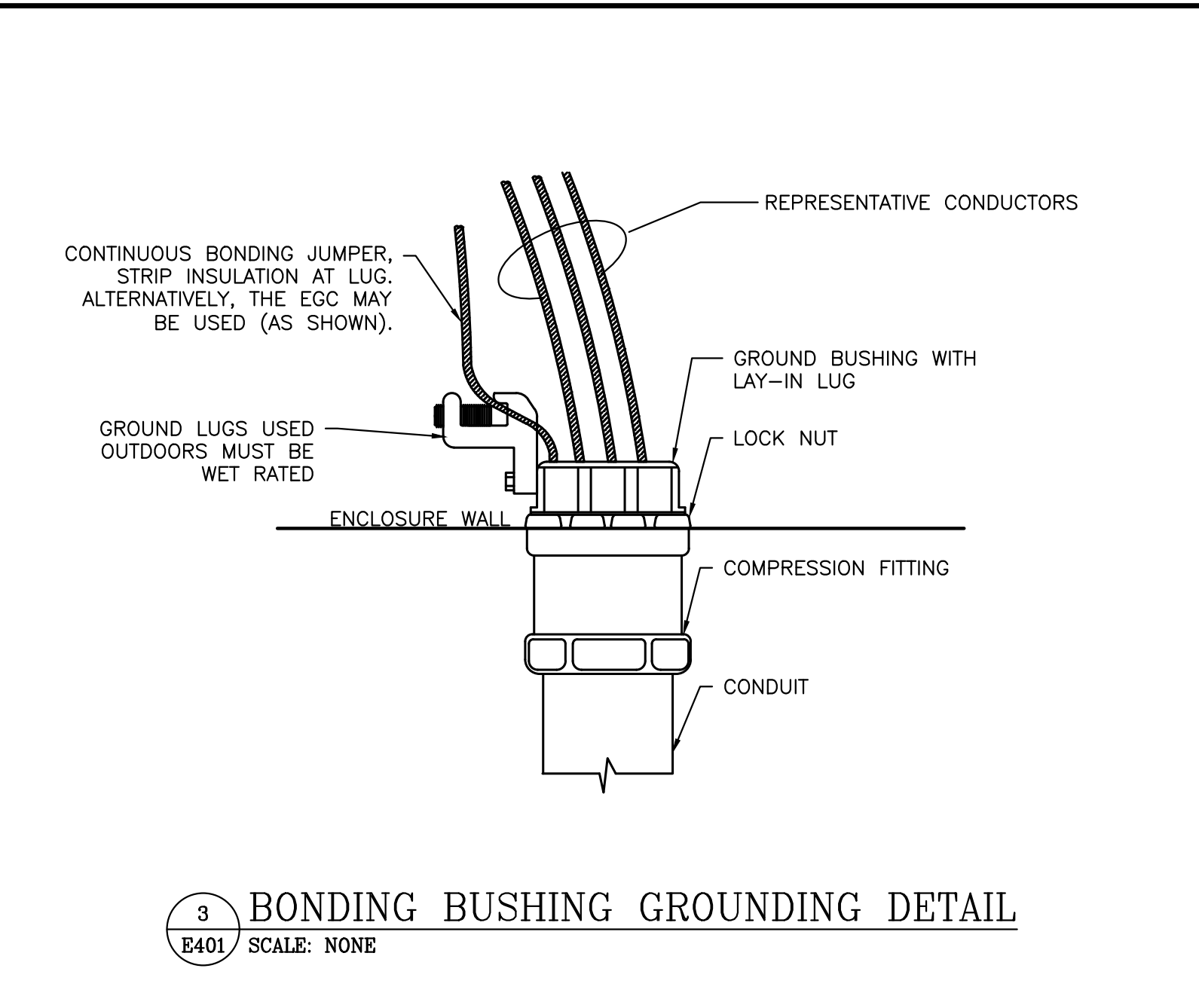
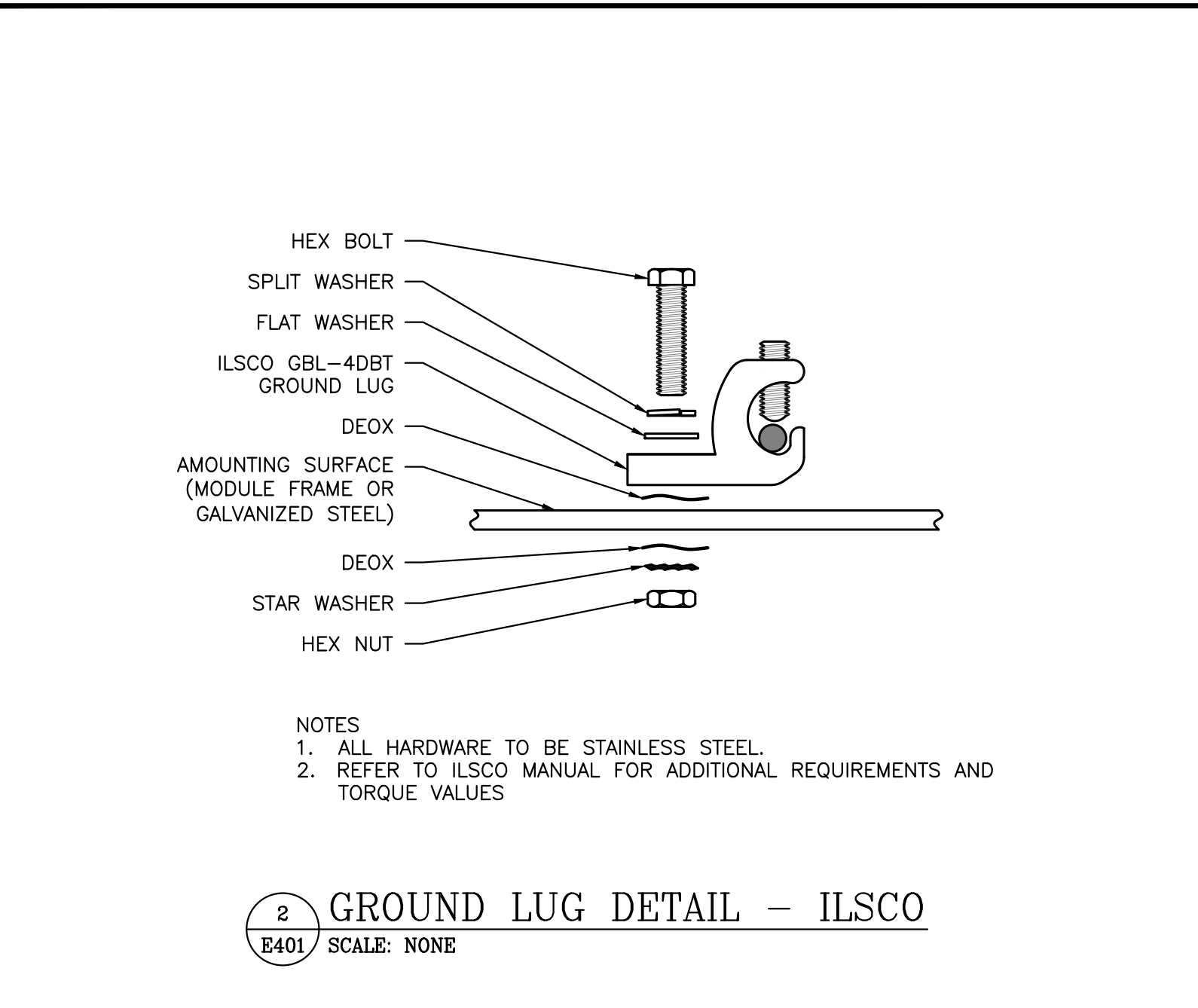
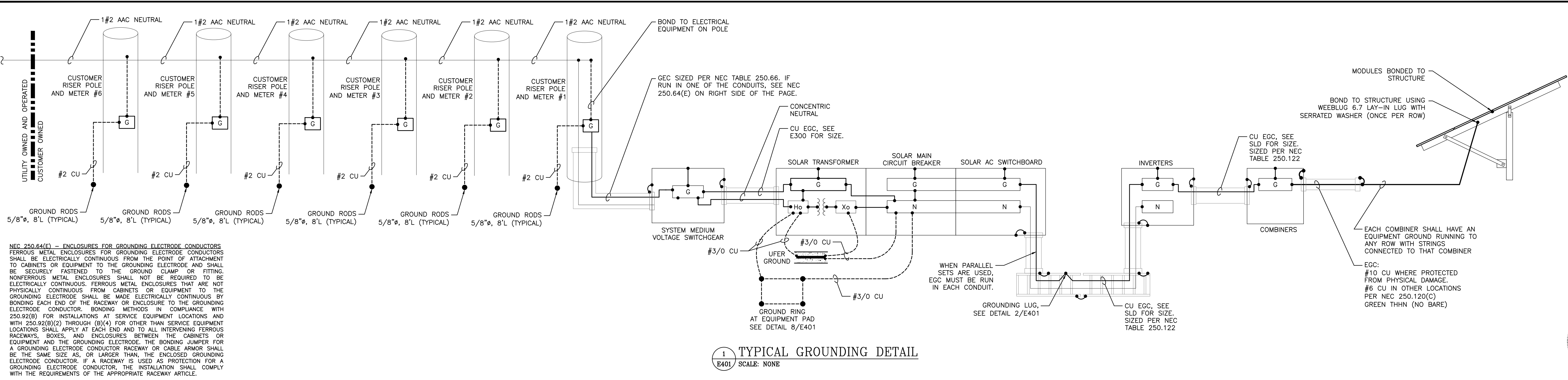
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|-------|-----|-------|-------|
| 26-10 | 50 | 0.10% | 0.70% |
| 26-11 | 430 | 0.92% | 1.52% |
| 26-12 | 335 | 0.71% | 1.31% |
| 26-13 | 245 | 0.52% | 1.12% |
| 26-14 | 150 | 0.32% | 0.92% |
| 26-15 | 60 | 0.12% | 0.72% |
| 27-1 | 425 | 0.91% | 1.51% |
| 27-2 | 330 | 0.70% | 1.30% |
| 27-3 | 235 | 0.50% | 1.10% |
| 27-4 | 145 | 0.31% | 0.91% |
| 27-5 | 50 | 0.10% | 0.70% |
| 27-6 | 430 | 0.92% | 1.62% |
| 27-7 | 335 | 0.71% | 1.41% |
| 27-8 | 245 | 0.52% | 1.22% |
| 27-9 | 150 | 0.32% | 1.02% |
| 27-10 | 60 | 0.12% | 0.82% |
| 27-11 | 450 | 0.96% | 1.66% |
| 27-12 | 355 | 0.75% | 1.45% |
| 27-13 | 260 | 0.55% | 1.25% |
| 27-14 | 455 | 0.97% | 1.67% |
| 27-15 | 360 | 0.76% | 1.46% |
| 28-1 | 145 | 0.31% | 1.01% |
| 28-2 | 50 | 0.10% | 0.80% |
| 28-3 | 245 | 0.52% | 1.22% |
| 28-4 | 150 | 0.32% | 1.02% |
| 28-5 | 60 | 0.12% | 0.82% |
| 28-6 | 450 | 0.96% | 1.66% |
| 28-7 | 355 | 0.75% | 1.45% |
| 28-8 | 260 | 0.55% | 1.25% |
| 28-9 | 170 | 0.36% | 1.06% |
| 28-10 | 75 | 0.16% | 0.86% |
| 28-11 | 455 | 0.97% | 1.67% |
| 28-12 | 360 | 0.76% | 1.46% |
| 28-13 | 270 | 0.57% | 1.27% |
| 28-14 | 175 | 0.37% | 1.07% |
| 28-15 | 85 | 0.18% | 0.88% |
| 29-1 | 455 | 0.97% | 1.67% |
| 29-2 | 390 | 0.82% | 1.52% |
| 29-3 | 295 | 0.62% | 1.32% |
| 29-4 | 200 | 0.43% | 1.13% |
| 29-5 | 110 | 0.23% | 0.93% |
| 29-6 | 380 | 0.80% | 1.50% |
| 29-7 | 290 | 0.61% | 1.31% |
| 29-8 | 195 | 0.42% | 0.62% |
| 29-9 | 105 | 0.22% | 0.42% |
| 29-10 | 405 | 0.86% | 1.06% |
| 29-11 | 330 | 0.70% | 0.90% |
| 29-12 | 240 | 0.51% | 0.71% |
| 29-13 | 145 | 0.31% | 0.51% |
| 29-14 | 50 | 0.10% | 0.30% |
| 29-15 | 335 | 0.71% | 0.91% |
| 29-16 | 245 | 0.52% | 0.72% |
| 29-17 | 150 | 0.32% | 0.52% |
| 29-18 | 60 | 0.12% | 0.32% |
| 30-1 | 405 | 0.86% | 1.06% |
| 30-2 | 330 | 0.70% | 0.90% |
| 30-3 | 240 | 0.51% | 0.71% |
| 30-4 | 145 | 0.31% | 0.51% |
| 30-5 | 50 | 0.10% | 0.30% |
| 30-6 | 335 | 0.71% | 0.91% |
| 30-7 | 245 | 0.52% | 0.72% |
| 30-8 | 150 | 0.32% | 0.52% |
| 30-9 | 60 | 0.12% | 0.32% |
| 30-10 | 430 | 0.92% | 1.12% |
| 30-11 | 355 | 0.75% | 0.95% |
| 30-12 | 260 | 0.55% | 0.75% |
| 30-13 | 170 | 0.36% | 0.56% |
| 30-14 | 75 | 0.16% | 0.36% |
| 30-15 | 360 | 0.76% | 0.96% |
| 30-16 | 270 | 0.57% | 0.77% |
| 30-17 | 175 | 0.37% | 0.57% |
| 30-18 | 85 | 0.18% | 0.38% |
| 31-1 | 405 | 0.86% | 1.06% |
| 31-2 | 330 | 0.70% | 0.90% |
| 31-3 | 240 | 0.51% | 0.71% |
| 31-4 | 145 | 0.31% | 0.51% |
| 31-5 | 50 | 0.10% | 0.30% |
| 31-6 | 335 | 0.71% | 0.91% |
| 31-7 | 245 | 0.52% | 0.72% |
| 31-8 | 150 | 0.32% | 0.52% |
| 31-9 | 60 | 0.12% | 0.32% |
| 31-10 | 430 | 0.92% | 1.12% |

| | | | |
|-------|-----|-------|-------|
| 31-11 | 355 | 0.75% | 0.95% |
| 31-12 | 260 | 0.55% | 0.75% |
| 31-13 | 170 | 0.36% | 0.56% |
| 31-14 | 75 | 0.16% | 0.46% |
| 31-15 | 360 | 0.76% | 1.06% |
| 31-16 | 270 | 0.57% | 0.87% |
| 31-17 | 175 | 0.37% | 0.67% |
| 31-18 | 85 | 0.18% | 0.48% |
| 32-1 | 385 | 0.81% | 1.11% |
| 32-2 | 315 | 0.67% | 0.97% |
| 32-3 | 225 | 0.48% | 0.78% |
| 32-4 | 135 | 0.29% | 0.59% |
| 32-5 | 50 | 0.10% | 0.40% |
| 32-6 | 320 | 0.68% | 0.98% |
| 32-7 | 230 | 0.49% | 0.79% |
| 32-8 | 145 | 0.31% | 0.61% |
| 32-9 | 55 | 0.11% | 0.41% |
| 32-10 | 405 | 0.86% | 1.16% |
| 32-11 | 340 | 0.72% | 1.02% |
| 32-12 | 250 | 0.53% | 0.83% |
| 32-13 | 160 | 0.34% | 0.64% |
| 32-14 | 75 | 0.16% | 0.46% |
| 32-15 | 345 | 0.73% | 1.03% |
| 32-16 | 255 | 0.54% | 0.84% |
| 32-17 | 165 | 0.35% | 0.75% |
| 32-18 | 80 | 0.17% | 0.57% |
| 32-19 | 430 | 0.92% | 1.32% |
| 32-20 | 360 | 0.76% | 1.16% |
| 32-21 | 370 | 0.78% | 1.18% |
| 33-1 | 225 | 0.48% | 0.88% |
| 33-2 | 135 | 0.29% | 0.69% |
| 33-3 | 50 | 0.10% | 0.50% |
| 33-4 | 230 | 0.49% | 0.89% |
| 33-5 | 145 | 0.31% | 0.71% |
| 33-6 | 55 | 0.11% | 0.51% |
| 33-7 | 405 | 0.86% | 1.26% |
| 33-8 | 340 | 0.72% | 1.12% |
| 33-9 | 250 | 0.53% | 0.93% |
| 33-10 | 160 | 0.34% | 0.74% |
| 33-11 | 75 | 0.16% | 0.56% |
| 33-12 | 345 | 0.73% | 1.13% |
| 33-13 | 255 | 0.54% | 0.94% |
| 33-14 | 170 | 0.36% | 0.76% |
| 33-15 | 80 | 0.17% | 0.57% |
| 33-16 | 430 | 0.92% | 1.32% |
| 33-17 | 360 | 0.76% | 1.16% |
| 33-18 | 275 | 0.58% | 0.98% |
| 33-19 | 185 | 0.40% | 0.80% |
| 33-20 | 370 | 0.78% | 1.18% |
| 33-21 | 280 | 0.59% | 0.99% |
| 34-1 | 50 | 0.10% | 0.50% |
| 34-2 | 145 | 0.31% | 0.71% |
| 34-3 | 55 | 0.11% | 0.51% |
| 34-4 | 405 | 0.86% | 1.26% |
| 34-5 | 340 | 0.72% | 1.12% |
| 34-6 | 250 | 0.53% | 0.93% |
| 34-7 | 160 | 0.34% | 0.74% |
| 34-8 | 75 | 0.16% | 0.56% |
| 34-9 | 345 | 0.73% | 1.13% |
| 34-10 | 255 | 0.54% | 0.94% |
| 34-11 | 165 | 0.35% | 0.75% |
| 34-12 | 80 | 0.17% | 0.57% |
| 34-13 | 430 | 0.92% | 1.32% |
| 34-14 | 365 | 0.77% | 1.17% |
| 34-15 | 275 | 0.58% | 0.98% |
| 34-16 | 185 | 0.40% | 0.80% |
| 34-17 | 100 | 0.21% | 0.71% |
| 34-18 | 370 | 0.78% | 1.28% |
| 34-19 | 280 | 0.59% | 1.09% |
| 34-20 | 190 | 0.41% | 0.91% |
| 34-21 | 105 | 0.22% | 0.72% |
| 35-1 | 315 | 0.67% | 1.17% |
| 35-2 | 225 | 0.48% | 0.98% |
| 35-3 | 140 | 0.30% | 0.80% |
| 35-4 | 50 | 0.10% | 0.60% |
| 35-5 | 320 | 0.68% | 1.18% |
| 35-6 | 230 | 0.49% | 0.99% |
| 35-7 | 145 | 0.31% | 0.81% |
| 35-8 | 55 | 0.11% | 0.61% |
| 35-9 | 295 | 0.62% | 1.12% |
| 35-10 | 205 | 0.44% | 0.94% |
| 35-11 | 120 | 0.25% | 0.75% |

| | | | |
|-------|-----|-------|-------|
| 35-12 | 30 | 0.06% | 0.56% |
| 35-13 | 300 | 0.63% | 1.13% |
| 35-14 | 215 | 0.46% | 0.96% |
| 35-15 | 125 | 0.26% | 0.36% |
| 35-16 | 35 | 0.07% | 0.17% |
| 36-1 | 315 | 0.67% | 0.77% |
| 36-2 | 225 | 0.48% | 0.58% |
| 36-3 | 135 | 0.29% | 0.39% |
| 36-4 | 50 | 0.10% | 0.20% |
| 36-5 | 320 | 0.68% | 0.78% |
| 36-6 | 230 | 0.49% | 0.59% |
| 36-7 | 145 | 0.31% | 0.41% |
| 36-8 | 55 | 0.11% | 0.21% |
| 36-9 | 340 | 0.72% | 0.82% |
| 36-10 | 250 | 0.53% | 0.63% |
| 36-11 | 160 | 0.34% | 0.44% |
| 36-12 | 75 | 0.16% | 0.26% |
| 36-13 | 345 | 0.73% | 0.83% |
| 36-14 | 255 | 0.54% | 0.64% |
| 36-15 | 170 | 0.36% | 0.56% |
| 36-16 | 80 | 0.17% | 0.37% |
| 37-1 | 330 | 0.70% | 0.90% |
| 37-2 | 240 | 0.51% | 0.71% |
| 37-3 | 145 | 0.31% | 0.51% |
| 37-4 | 50 | 0.10% | 0.30% |
| 37-5 | 335 | 0.71% | 0.91% |
| 37-6 | 245 | 0.52% | 0.72% |
| 37-7 | 150 | 0.32% | 0.52% |
| 37-8 | 60 | 0.12% | 0.32% |
| 37-9 | 260 | 0.55% | 0.75% |
| 37-10 | 170 | 0.36% | 0.56% |
| 37-11 | 75 | 0.16% | 0.36% |
| 37-12 | 270 | 0.57% | 0.77% |
| 37-13 | 175 | 0.37% | 0.57% |
| 37-14 | 85 | 0.18% | 0.38% |
| 38-1 | 320 | 0.68% | 0.98% |
| 38-2 | 310 | 0.66% | 0.96% |
| 38-3 | 240 | 0.51% | 0.81% |
| 38-4 | 145 | 0.31% | 0.61% |
| 38-5 | 50 | 0.10% | 0.40% |
| 38-6 | 245 | 0.52% | 0.82% |
| 38-7 | 150 | 0.32% | 0.62% |
| 38-8 | 60 | 0.12% | 0.42% |
| 38-9 | 260 | 0.55% | 0.85% |
| 38-10 | 170 | 0.36% | 0.66% |
| 38-11 | 75 | 0.16% | 0.46% |
| 38-12 | 270 | 0.57% | 0.87% |
| 38-13 | 175 | 0.37% | 0.67% |
| 38-14 | 85 | 0.18% | 0.48% |

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
 DC SYSTEM SIZE: 6095.440 KW
 AC SYSTEM SIZE: 4980.000 KW
 MODULE TYPE: CANADIAN 360W /400W
 MODULE QUANTITY: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH
 DRAWING # E313
 DRAWING TITLE: SCHEDULES & CALCULATIONS
 DEVELOPER: Greenskies a Clean Focus company
 180 JOHNSON STREET, MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM
 GREENSKIES
 5 MARINE VIEW PLAZA, HOBOKEN, NJ
 WWW.PUREPOWER.COM
 RICHARD A. VONN
 CT LICENSE NO. 03629262
 REVISION DESCRIPTION: DATE: 03/13/2020 PERMIT SET - REV. 1
 02/19/2020 PERMIT SET

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19



PURE POWER
5 MARINE VIEW PLAZA, HOBOKEN, NJ
WWW.PUREPOWER.COM
RICHARD A. VONN
CT LICENSE NO. 03029282

DATE: 03/13/2020
REVISION DESCRIPTION: PM ENG CHK
PERMIT SET - REV. 1
BX AD RI
BX AD RI

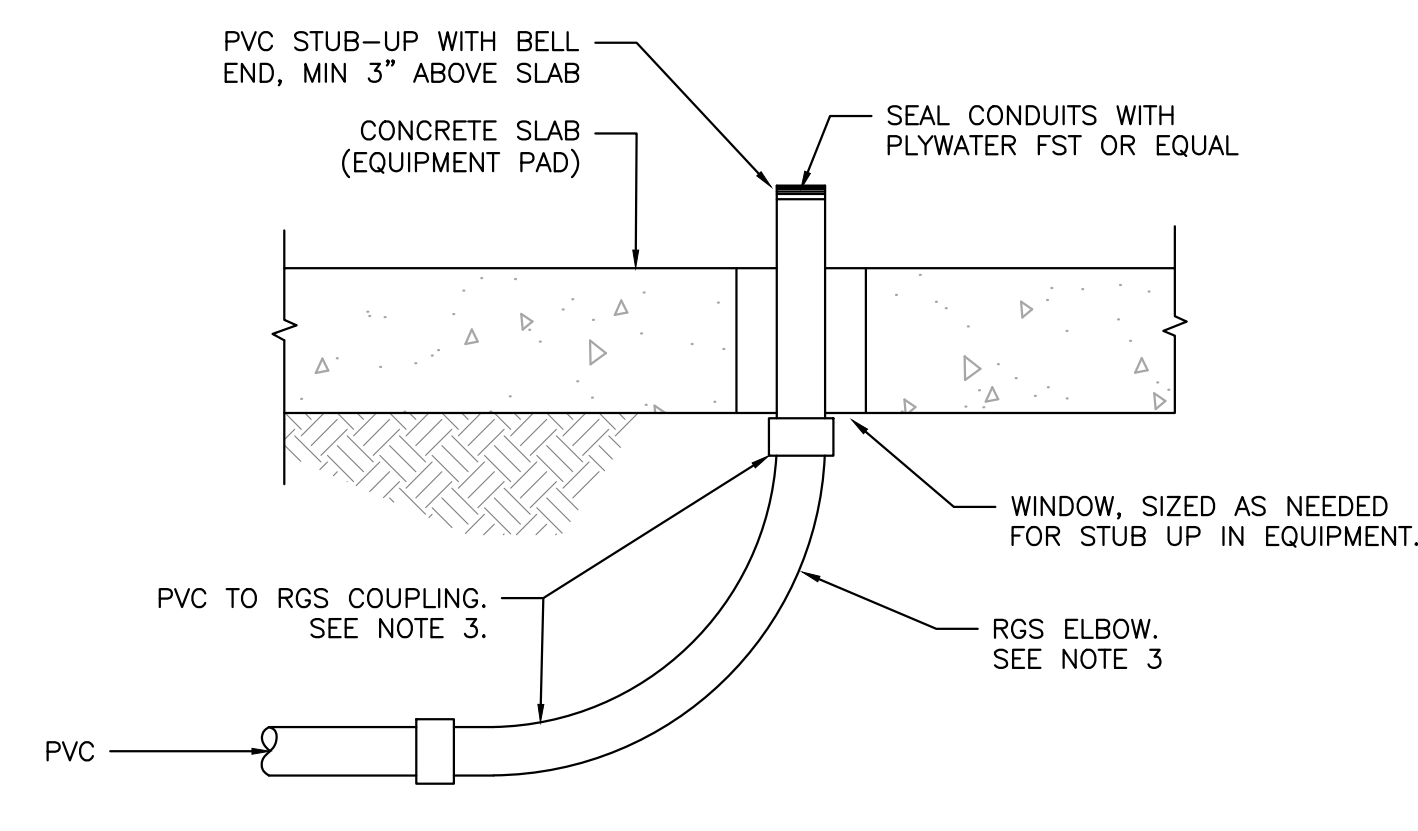
GREENSKIES
180 JOHNSON STREET,
MIDDLETOWN, CT 06457
WWW.GREENSKIES.COM
a Clean Focus company

DEVELOPER: GREENSKIES
PROJECT #: PPE 00083
PAGE SIZE: 36" x 24"
DC SYSTEM SIZE: 6095.440 kW
AC SYSTEM SIZE: 4980.000 kW
MODULE TYPE: CANADIAN 360W/400W
MODULE QUANTITY: 8294/7774
ORIENTATION: 25° TILT, 0° AZIMUTH

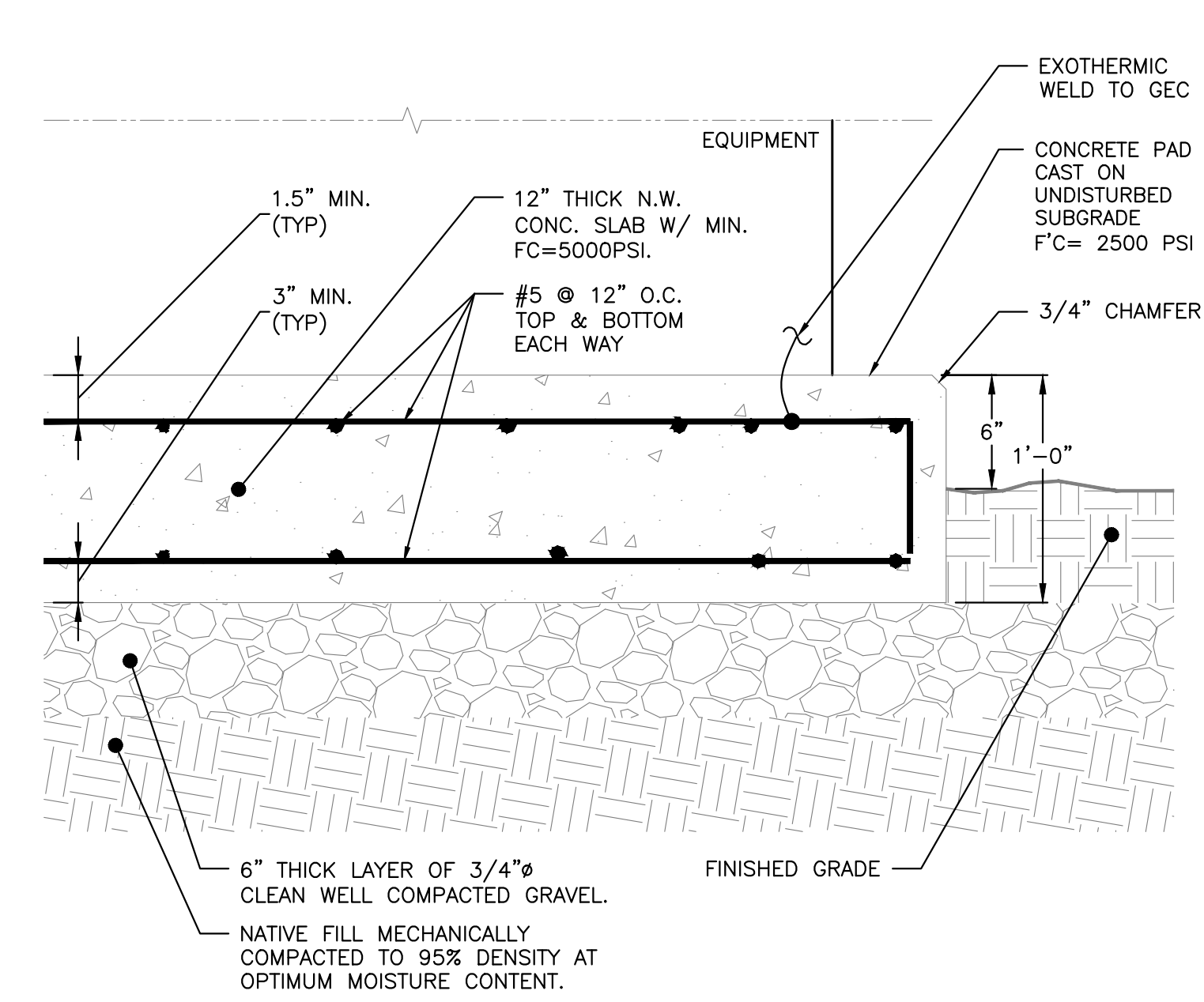
PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
DRAWING #: E401

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

NOTES:
 1. INITIALLY INSTALL COUPLING CAP TO PREVENT DAMAGE TO STUB-UP UNTIL GEAR IS SET.
 2. INSTALL ROUNDED FITTING BEFORE PULLING CABLES TO AVOID DAMAGE TO CABLES.
 3. RMC ELBOW ONLY REQUIRED ON ONE SIDE OF EACH PULL NEAREST THE LOCATION OF THE PULLING MACHINE. ON OPPOSITE SIDE, PVC SCH80 ELBOWS ARE PERMITTED.

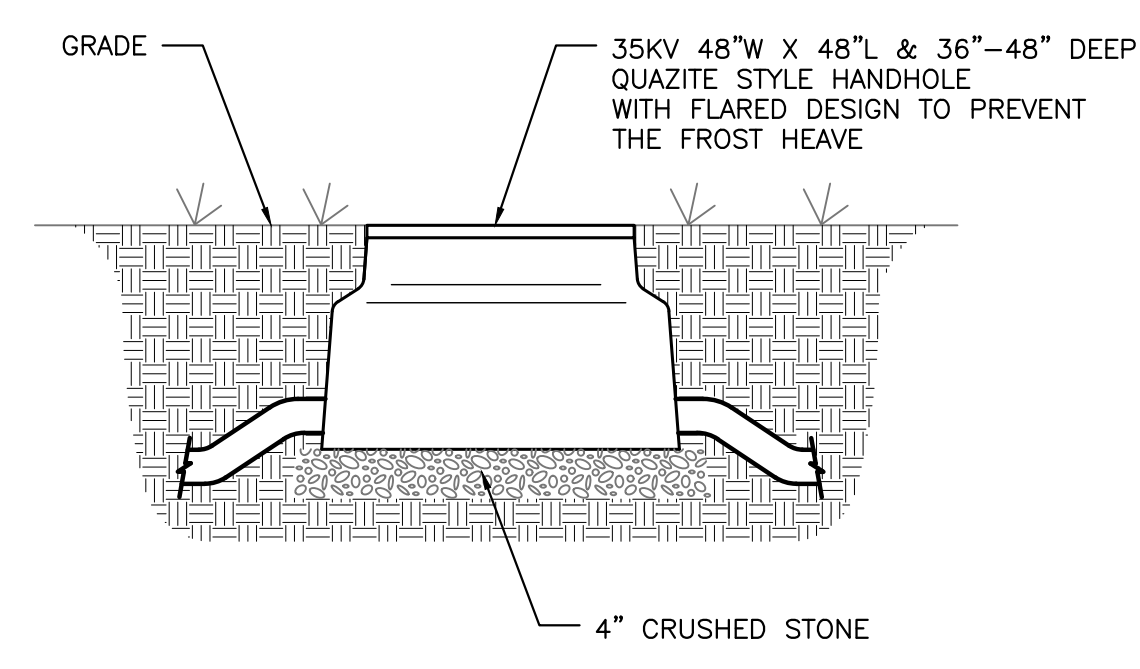


1 EQUIPMENT PAD STUB-UP DETAIL
 E402 SCALE: NONE



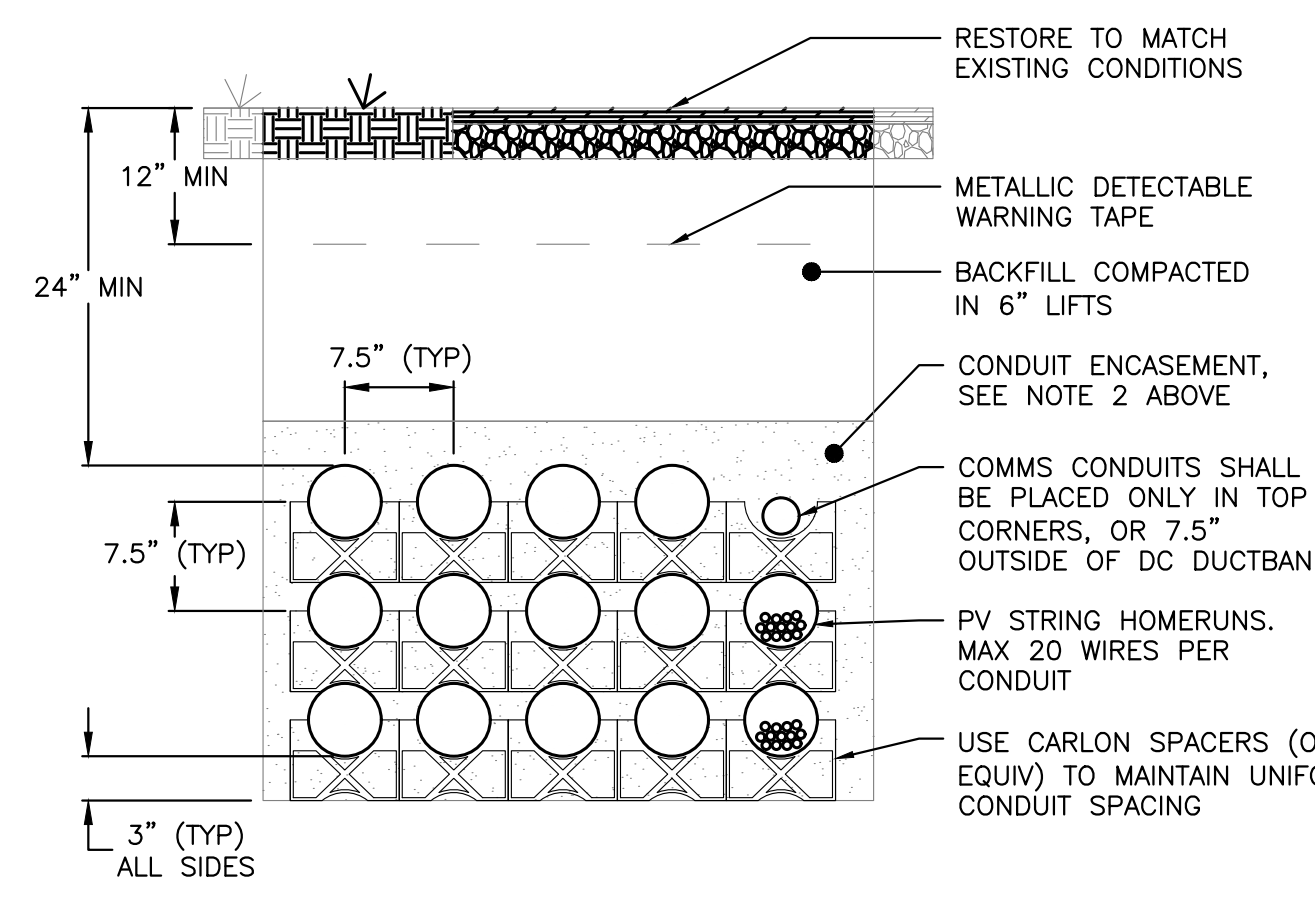
2 CONCRETE PAD DETAIL
 E402 SCALE: NONE

NOTES:
 1. HANDHOLES TO BE PLACED AS NECESSARY
 2. SEPARATE HANDHOLES REQUIRED FOR DATA AND POWER ACCESS
 3. LOCATIONS OF HANDHOLES TO BE DETERMINED IN FIELD BY CONTRACTOR
 4. HANDHOLES SHALL BE UL LISTED, GASKETED, SUITABLE FOR TIER 15 LOADING.
 5. IN AREAS OF VEHICLE TRAFFIC, HANDHOLES SHALL BE SUITABLE FOR H2O LOADING.
 6. HANDHOLES SHALL BE PROVIDED WITH BASES AND SS HEX BOLTS.



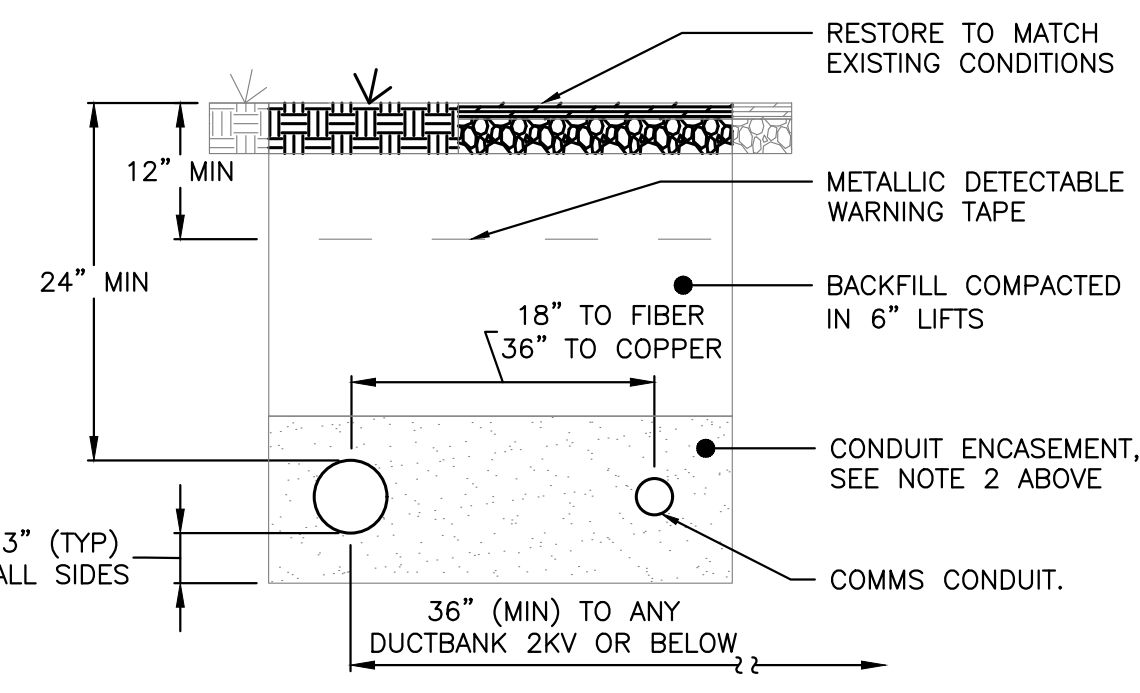
3 HANDHOLE DETAIL
 E402 SCALE: NONE

NOTES:
 1. ALL UNDERGROUND CONDUIT SHALL BE PVC AND TRANSITION TO RMC FOR ELBOW. RMC ELBOW DOES NOT NEED TO BE BONDED IF THE ENTIRE ELBOW IS \geq 18\"/>

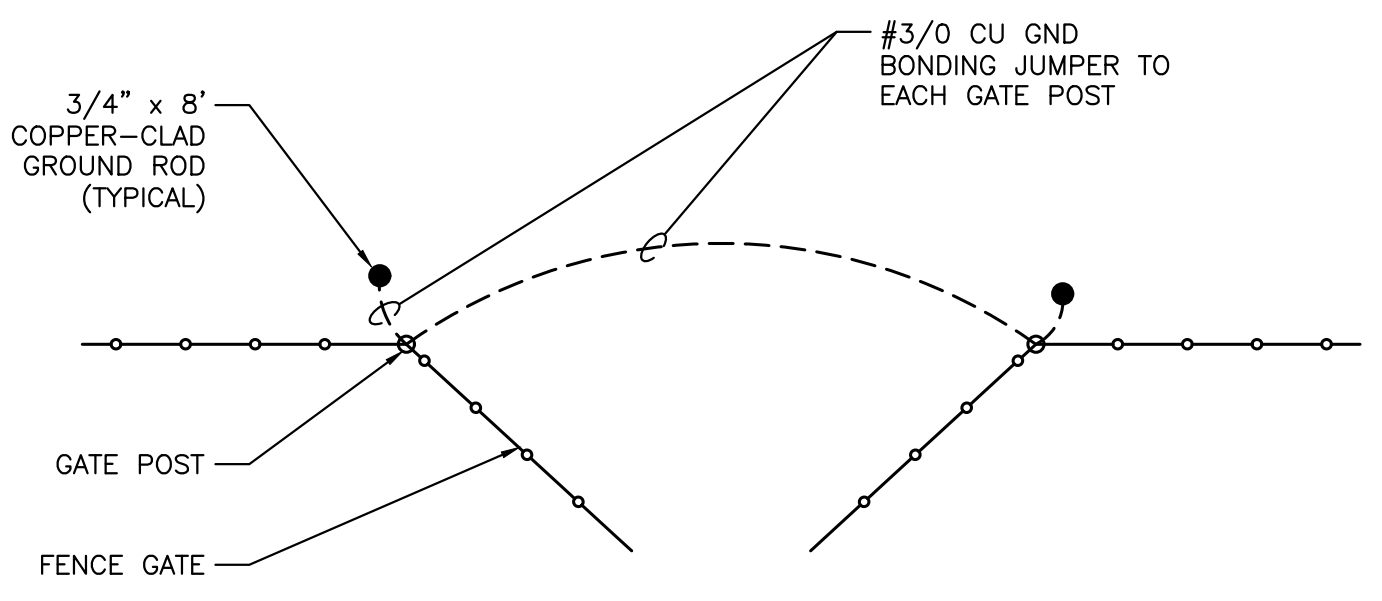


4 TYPICAL 1500VDC DUCTBANK DETAIL
 E402 SCALE: NONE

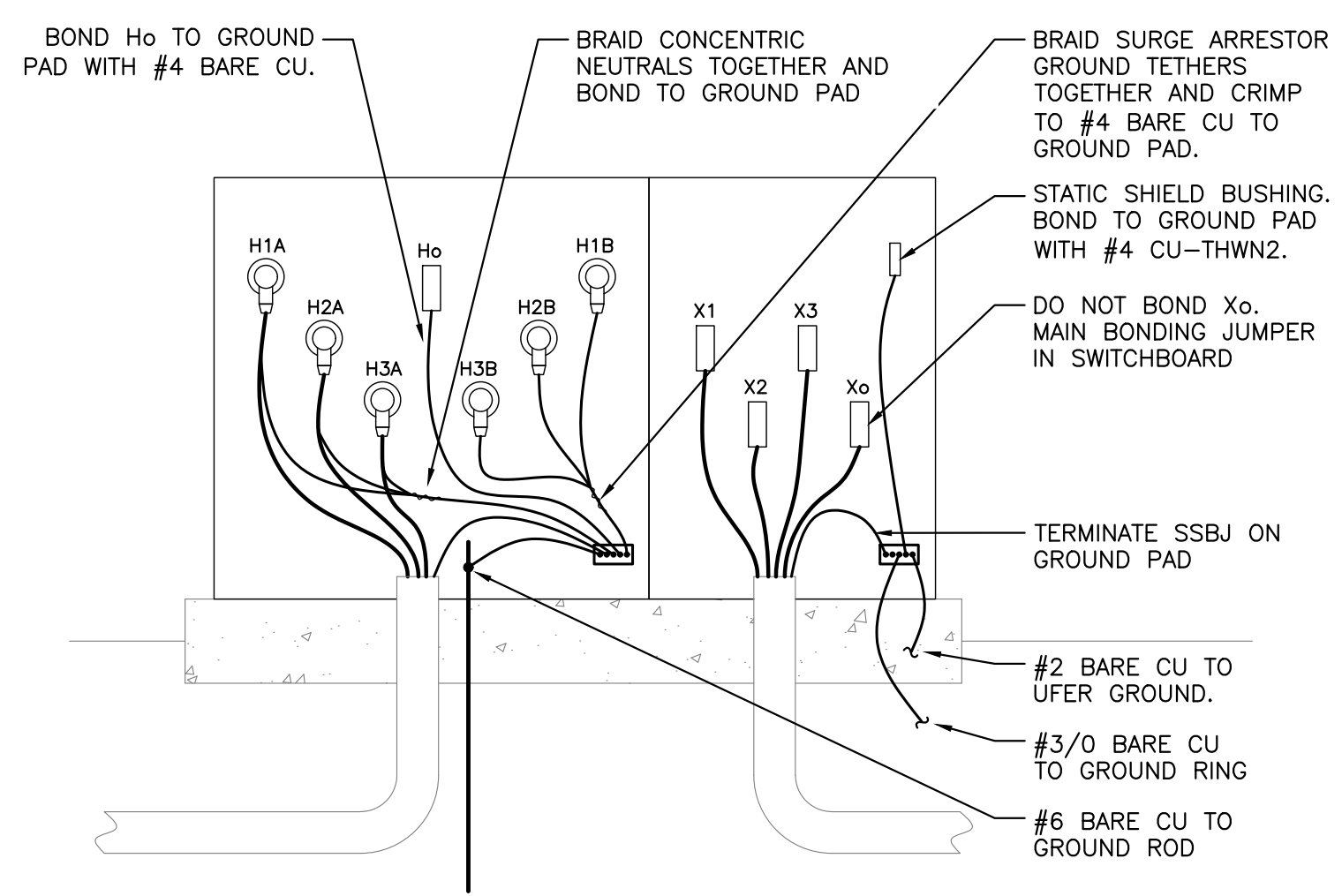
NOTES:
 1. ALL UNDERGROUND CONDUIT SHALL BE PVC AND TRANSITION TO RMC FOR ELBOW. RMC ELBOW DOES NOT NEED TO BE BONDED IF THE ENTIRE ELBOW IS \geq 18\"/>



6 TYPICAL MV DUCTBANK DETAIL
 E402 SCALE: NONE

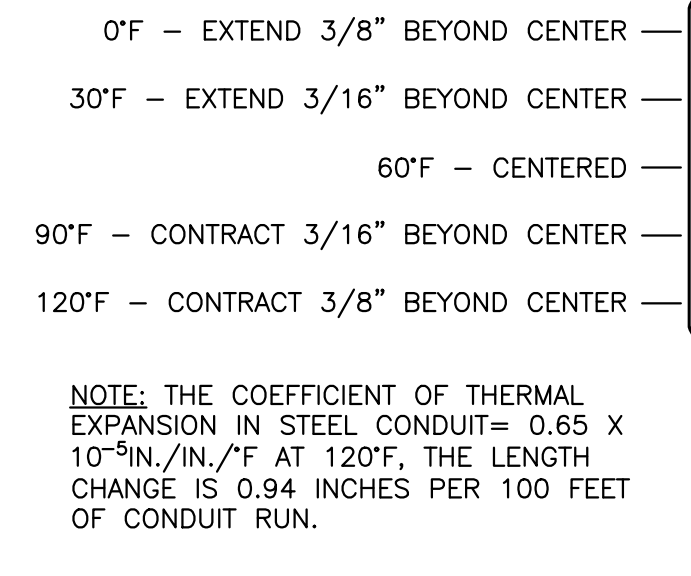


5 FENCE GATE GROUNDING DETAIL
 E402 SCALE: NONE

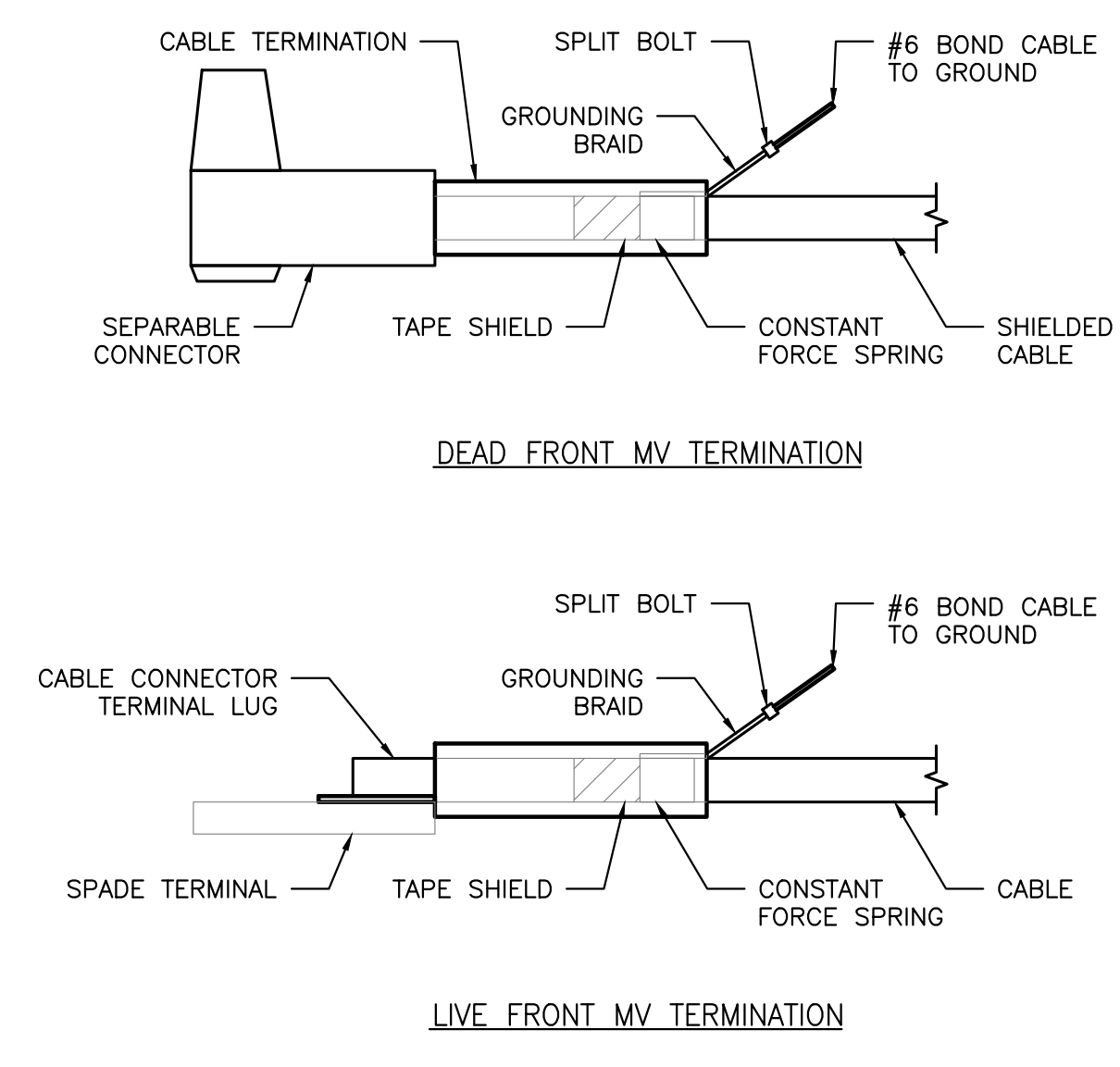


7 TRANSFORMER GROUNDING: WYE-G/WYE-G
 E402 SCALE: NONE

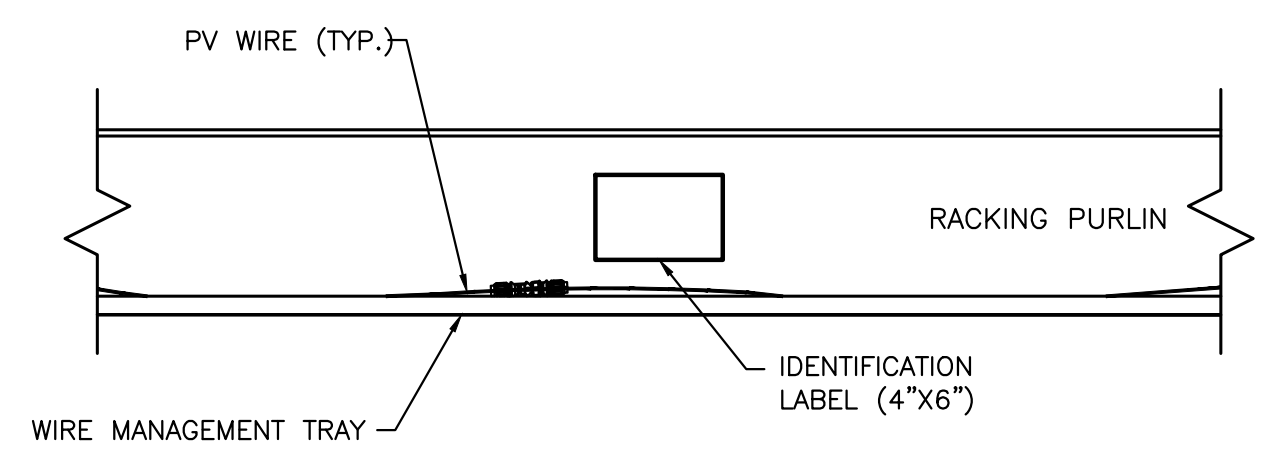
NOTES:
 1. INSTALL EXPANSION COUPLING EVERY 100' OF STRAIGHT CONDUIT RUN.
 2. IF EXPANSION COUPLINGS ARE INSTALLED AT LENGTHS LESS THAN 100', THE OFFSET FROM CENTER SHALL BE ADJUSTED PROPORTIONALLY.
 3. IF EXPANSION JOINT IS NOT PROVIDED WITH INTERNAL BONDING JUMPER, AND EXTERNAL BONDING JUMPER MUST BE USED



8 EXPANSION COUPLING DETAIL
 E402 SCALE: NONE



9 SHIELDED CABLE DETAIL
 E402 SCALE: NONE



NOTES:
 1. INSTALL MANUFACTURED LABEL IDENTIFYING THE INVERTER AND STRING NUMBER. LABEL MUST HAVE RED BACKGROUND FOR POSITIVE OR BLACK BACKGROUND FOR NEGATIVE. TEXT SHALL BE WHITE WITH A HEIGHT OF 3/4\"/>

10 STRING PLACARD DETAIL
 E402 SCALE: NONE

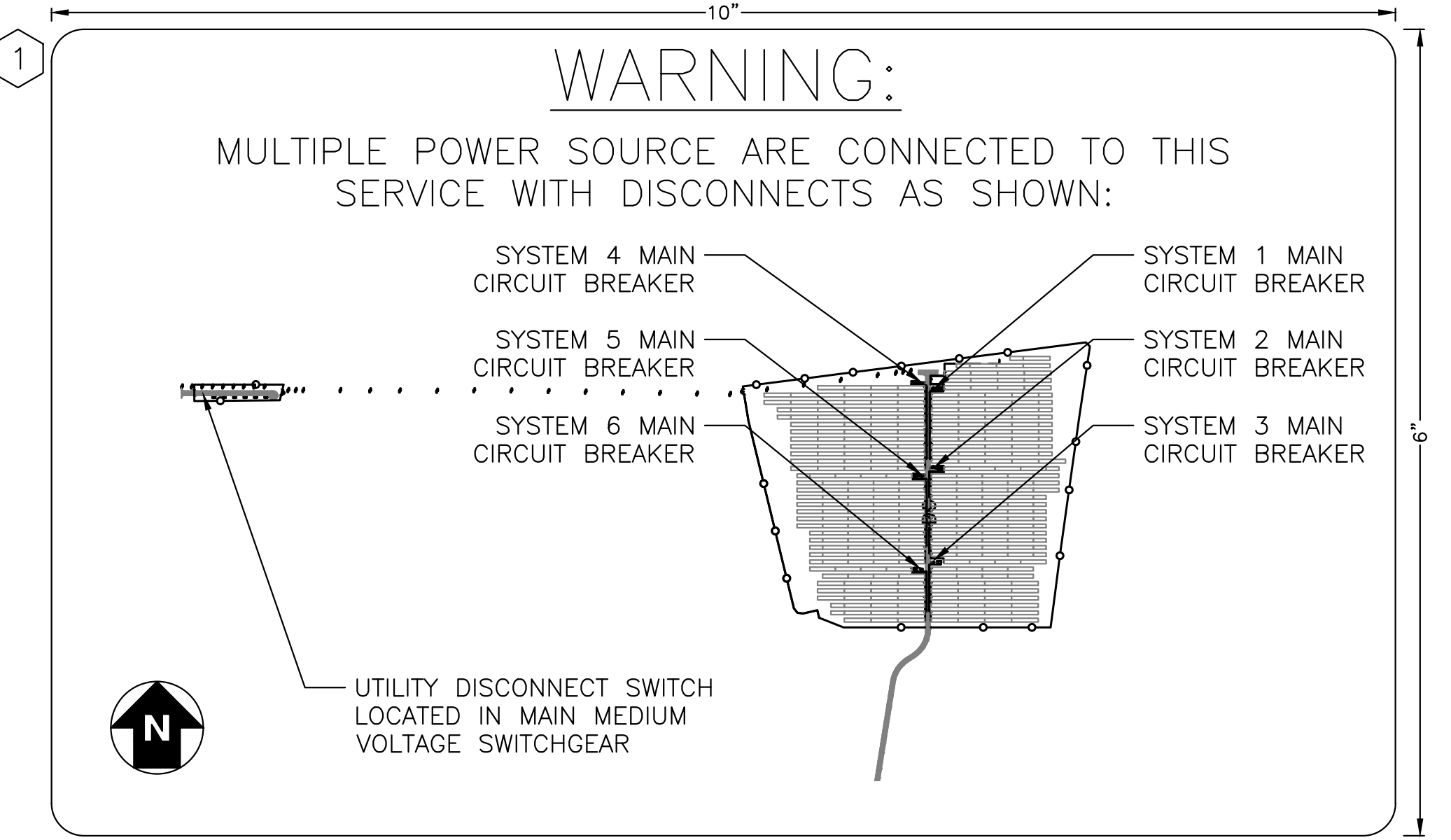
| | | | | |
|---|------------------------|-------------------------|--|---|
| DATE | REVISION DESCRIPTION | FW | LENG | CHK |
| 02/19/2020 | | | | |
| | | | | |
| 5 MARINE VIEW PLAZA, HOBOKEN, NJ WWW.PUREPOWER.COM RICHARD A. TINN CT LICENSE NO. 03629282 | | PERMIT SET BK AD R1 | | |
| DEVELOPER | PROJECT # PPE 00083 | PAGE SIZE 3.6" x 24" | DC SYSTEM SIZE: 6095.440 KW 4980.000 KW CANADIAN 360W /400W | PROJECT 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378 |

GENERAL NOTES FOR LABELS:
 1. LABEL SCALE 1:2 UNLESS NOTED
 2. LETTERING ON SIGNS SHALL BE CAPITAL LETTERS
 3. CLEARLY LABEL ALL CIRCUIT BREAKERS IN THE PANELBOARD(S). THE LABEL SHALL INDICATE THE NAME OF THE DEVICE IT SERVES.

LABEL FORMAT NOTES:
 1. **FORMAT 1:** ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND. TEXT HEIGHT: TITLES 3/8", ALL OTHER TEXT 5/32".
 2. **FORMAT 2:** ENGRAVED MELAMINE, BLACK TEXT ON WHITE BACKGROUND. TEXT HEIGHT: 3/8".
 3. **FORMAT 3:** REFLECTIVE UV RATED LABEL, RED BACKGROUND WITH WHITE CAPITAL LETTERS AT LEAST 3/8" TALL. LABELS SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
 4. **FORMAT 4:** ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND. TEXT HEIGHT: TITLES 5/32", ALL OTHER TEXT 3/32".

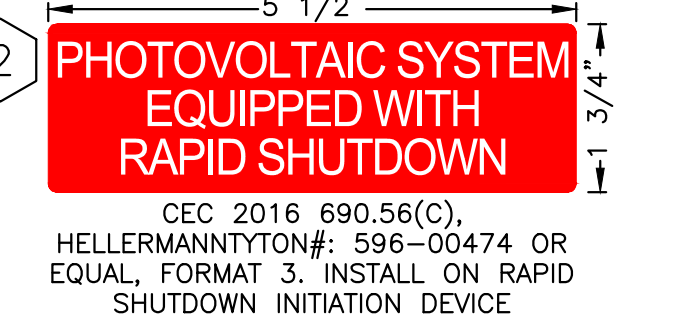
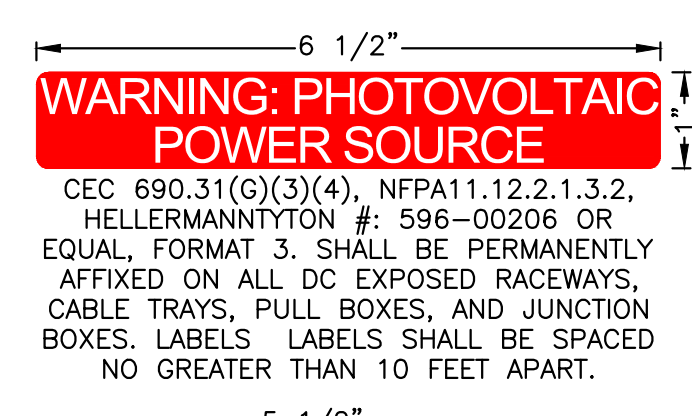
PER 2014 NEC 690.31(B)(1)&(2), PV SOURCE CIRCUITS, PV OUTPUT CIRCUITS AND INVERTER INPUT AND OUTPUT CIRCUITS SHALL BE IDENTIFIED AT ALL POINTS OF TERMINATION, CONNECTION, AND SPLICES.

1. STRING HOMERUNS AT ARRAY
2. DC INPUT TERMINALS OF COMBINER BOX
3. DC OUTPUT TERMINALS OF COMBINER BOX
4. DC INPUT TERMINAL OF INVERTER
5. AC OUTPUT TERMINALS OF INVERTER
6. AC INPUT & OUTPUT TERMINALS OF EACH SUCCESSIVE DEVICE (WHERE APPLICABLE)

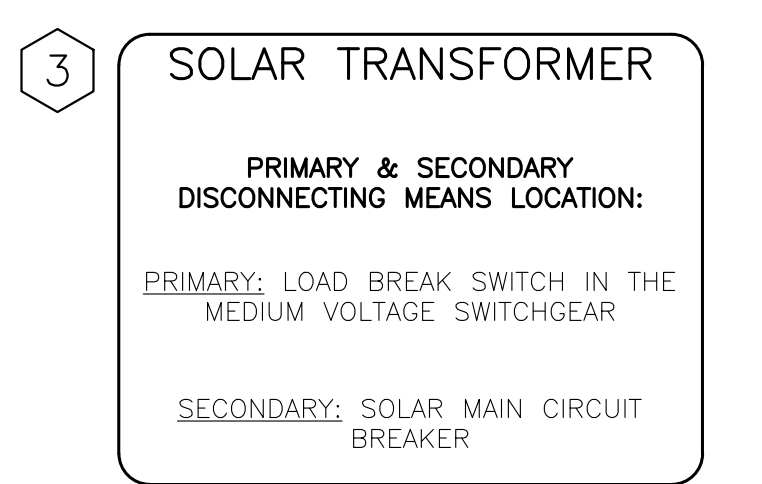


INSTALL AT MAIN DISCONNECT OF ALL POWER SOURCES. ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND, TITLE MIN. 1/2", DESCRIPTION 5/16", ALL OTHER TEXT 1/8"

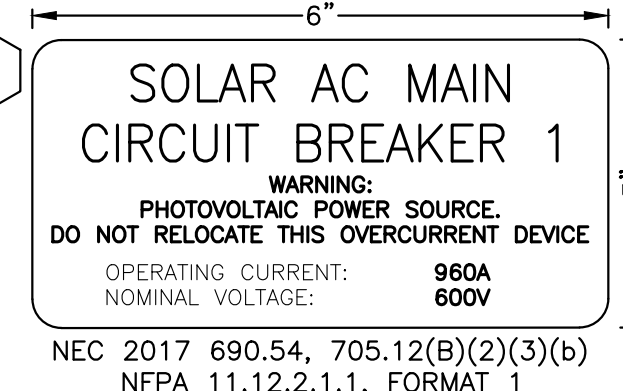
2 DIRECTORY LABEL
 E500 SCALE: 1:1



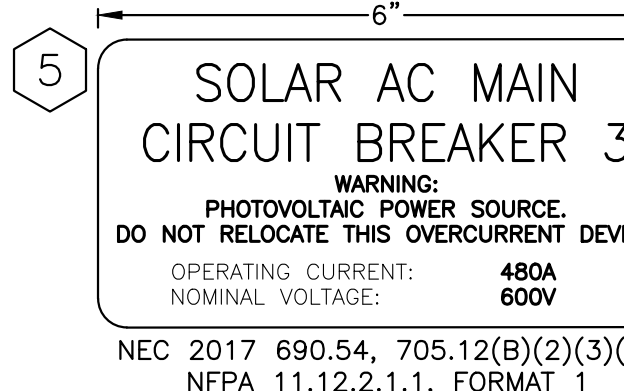
3 TYPICAL FOR TRANSFORMERS 1-6



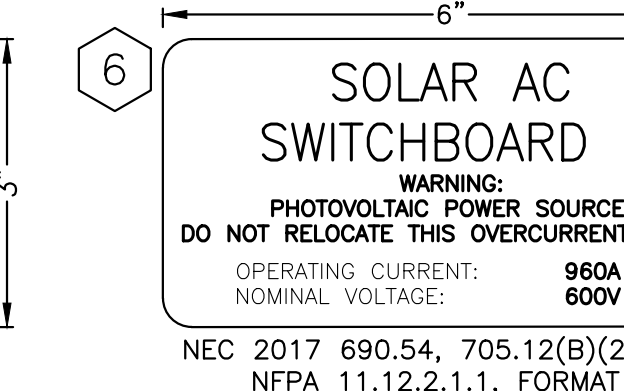
4 TYPICAL FOR SYSTEMS 1, 2, 4, 5



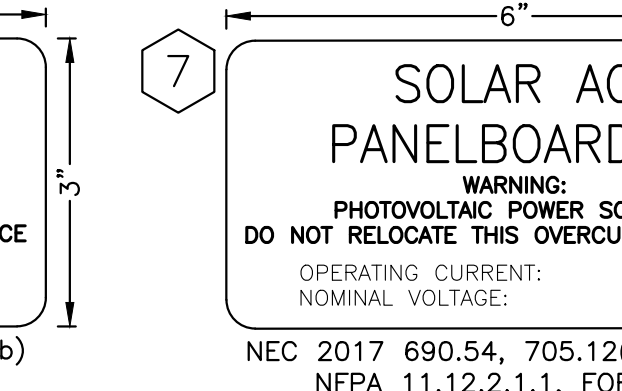
5 TYPICAL FOR SYSTEMS 3, 6



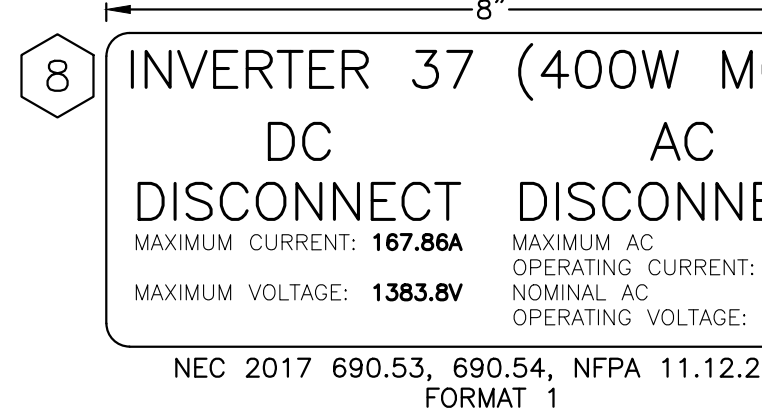
6 TYPICAL FOR SYSTEMS 1, 2, 4, 5



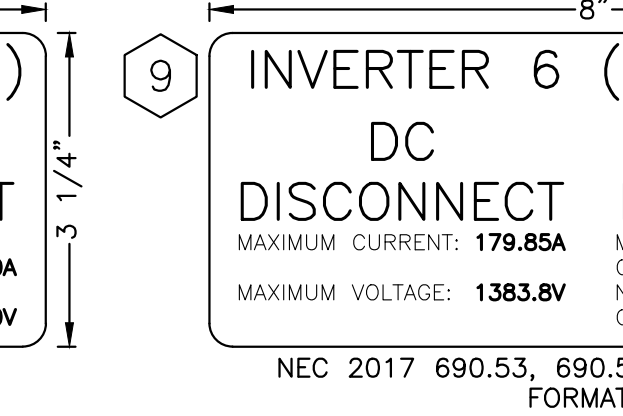
7 TYPICAL FOR SYSTEMS 3, 6



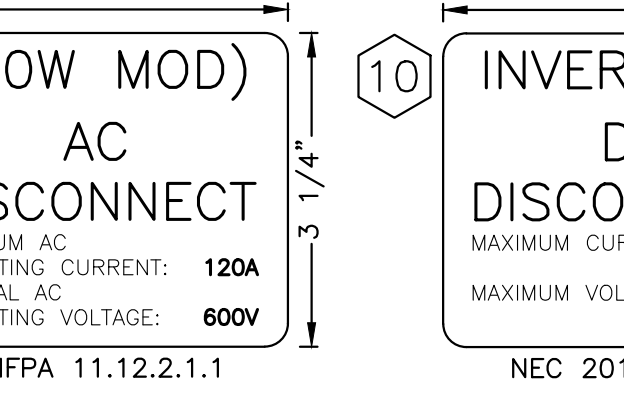
8 TYPICAL FOR INVERTER(S): 37-38 (14 STRINGS)



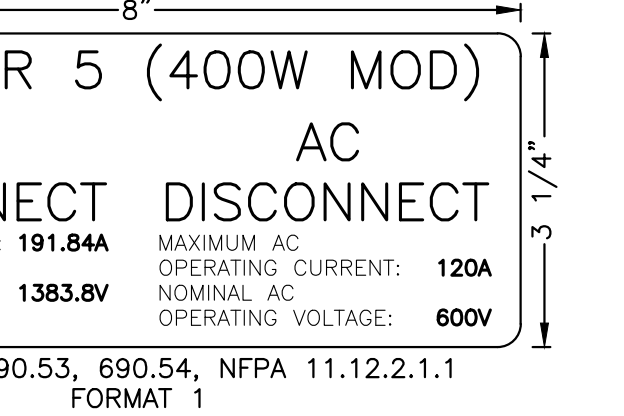
9 TYPICAL FOR INVERTER(S): 8, 9-10, 25-28 (15 STRINGS)



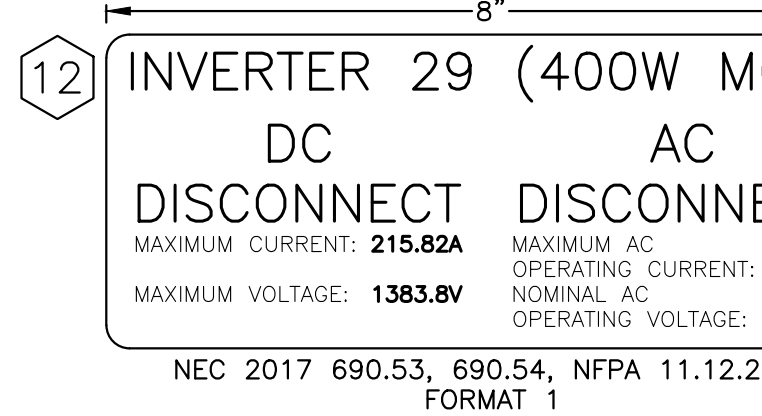
10 TYPICAL FOR INVERTER(S): 5-7, 11-12, 19-20 (16 STRINGS)



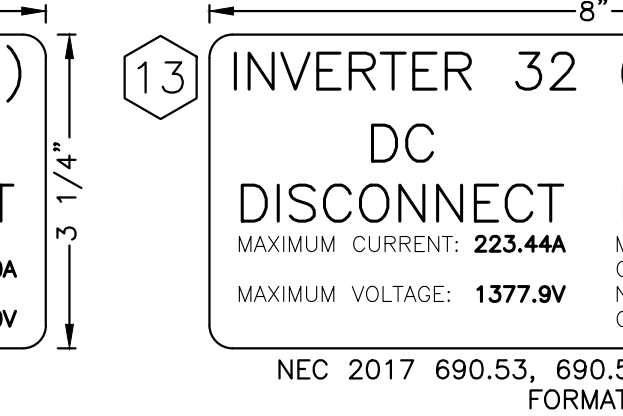
11 TYPICAL FOR INVERTER(S): 1-4, 13-18, 21-24, 35-36 (16 STRINGS)



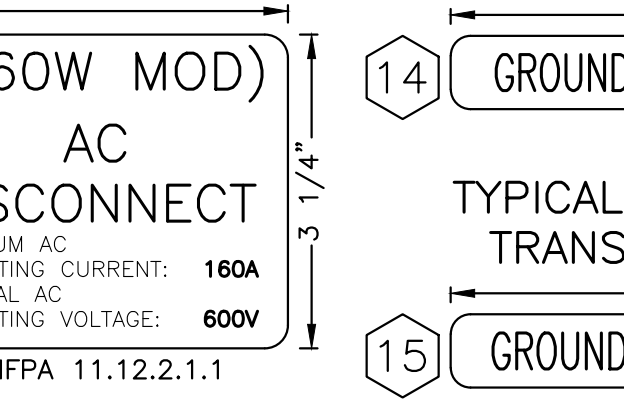
12 TYPICAL FOR INVERTER(S): 29-31 (18 STRINGS)



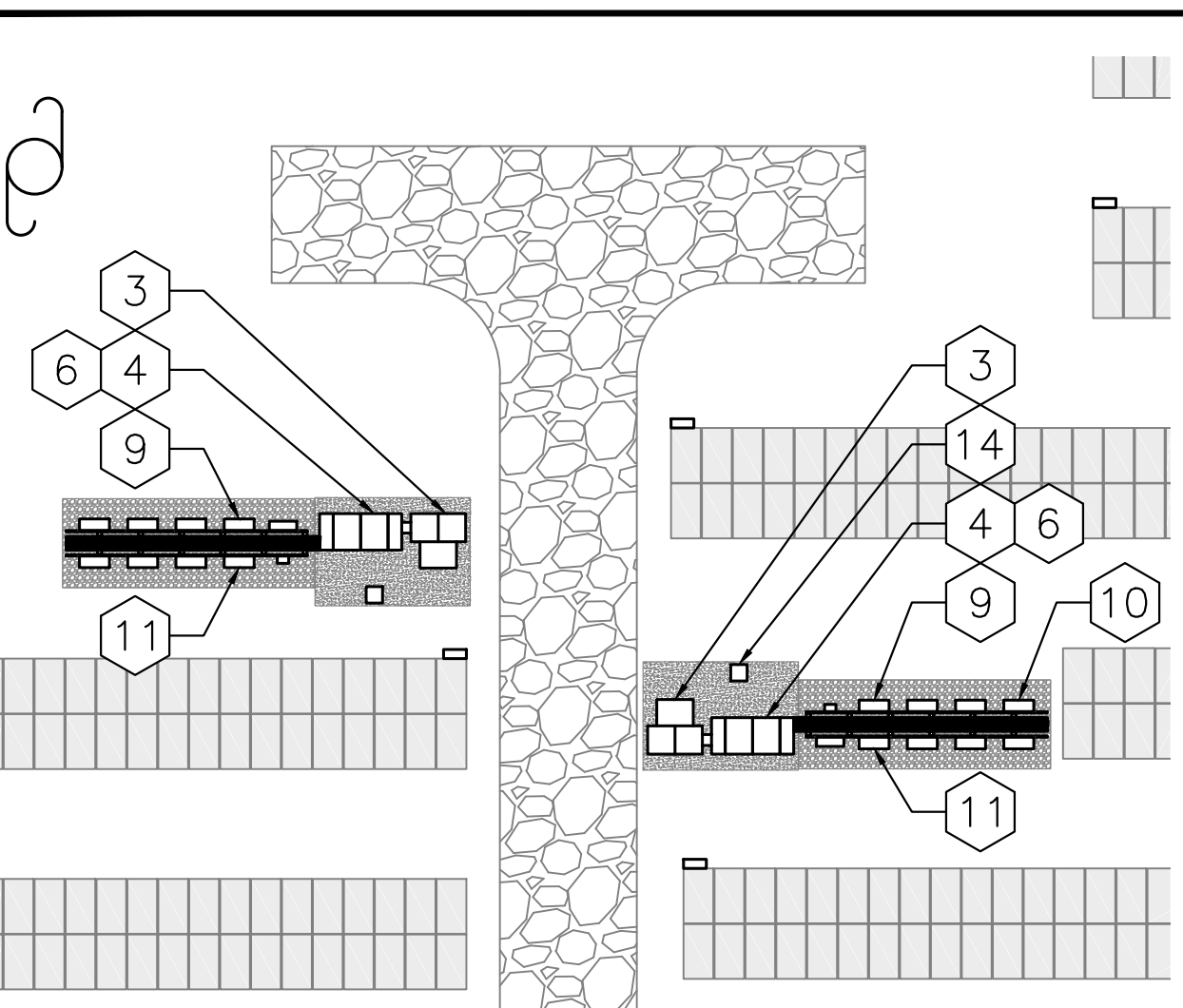
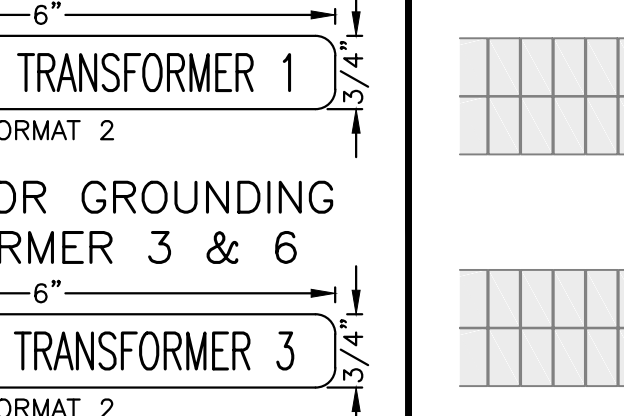
13 TYPICAL FOR INVERTER(S): 32-34 (21 STRINGS)



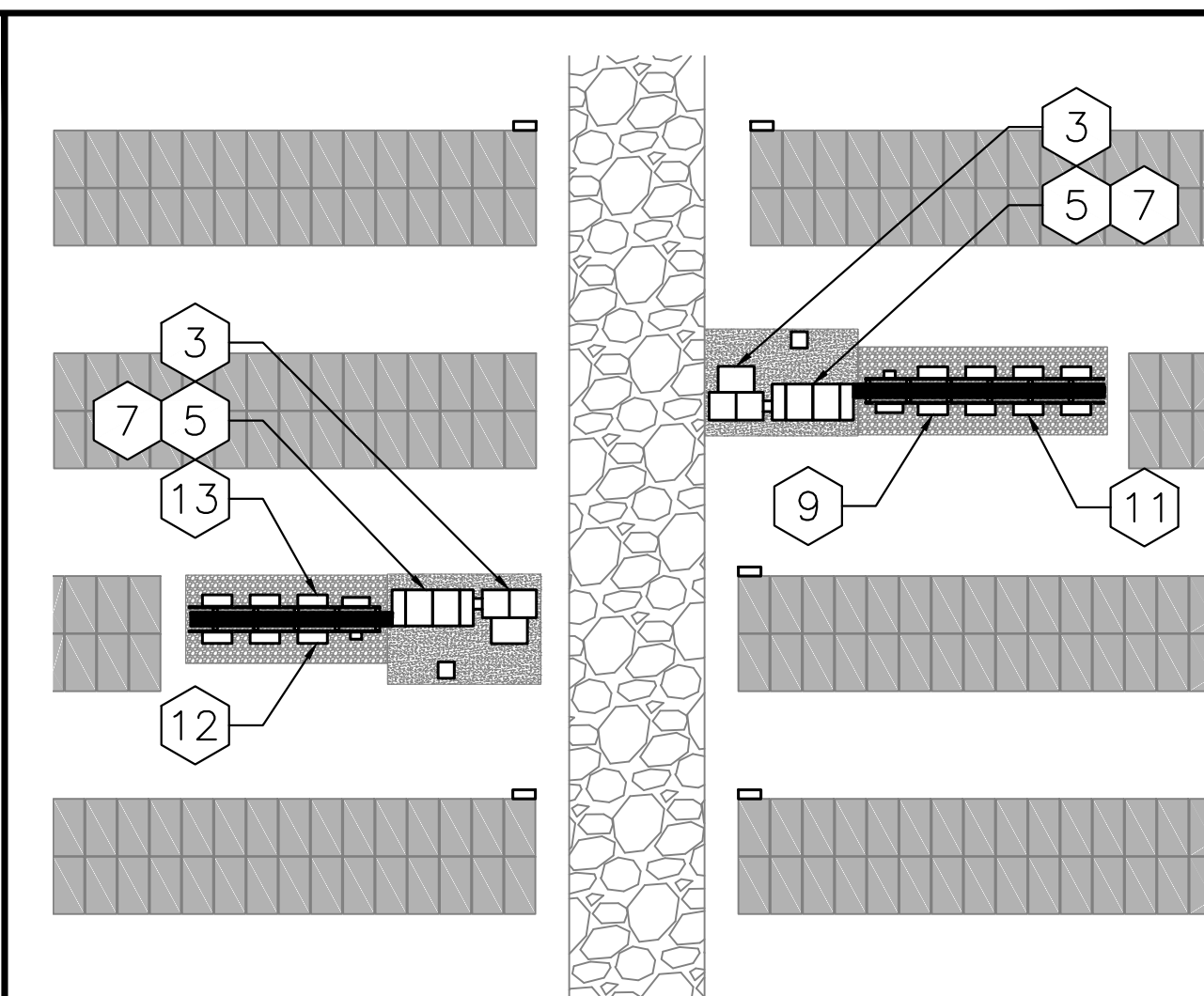
14 TYPICAL FOR GROUNDING TRANSFORMER 1-2 & 4-5



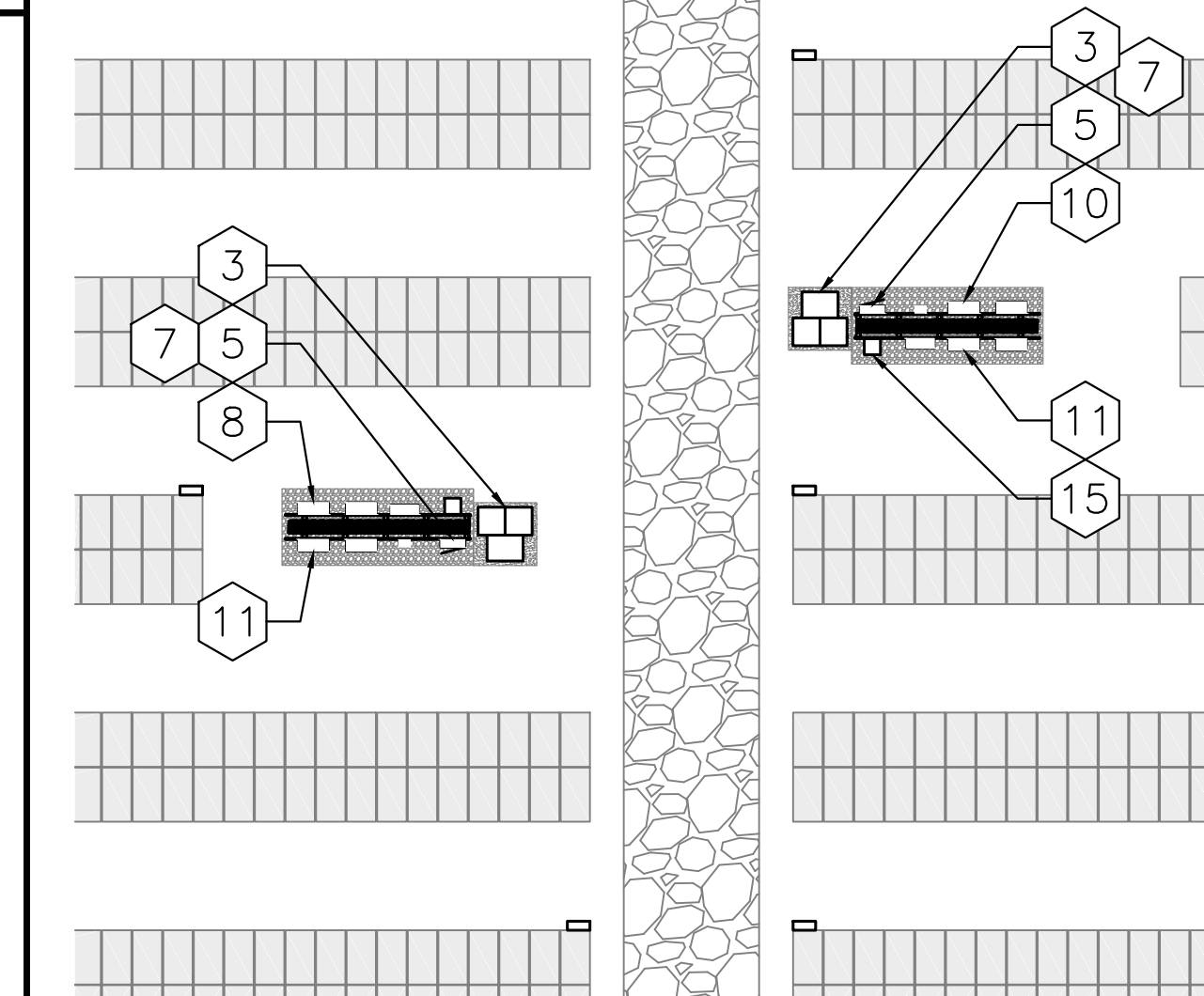
15 TYPICAL FOR GROUNDING TRANSFORMER 3 & 6



1 LABELS & SIGNAGE (SYSTEMS 1 & 4)
 E500 SCALE: 1" = 20'-0"

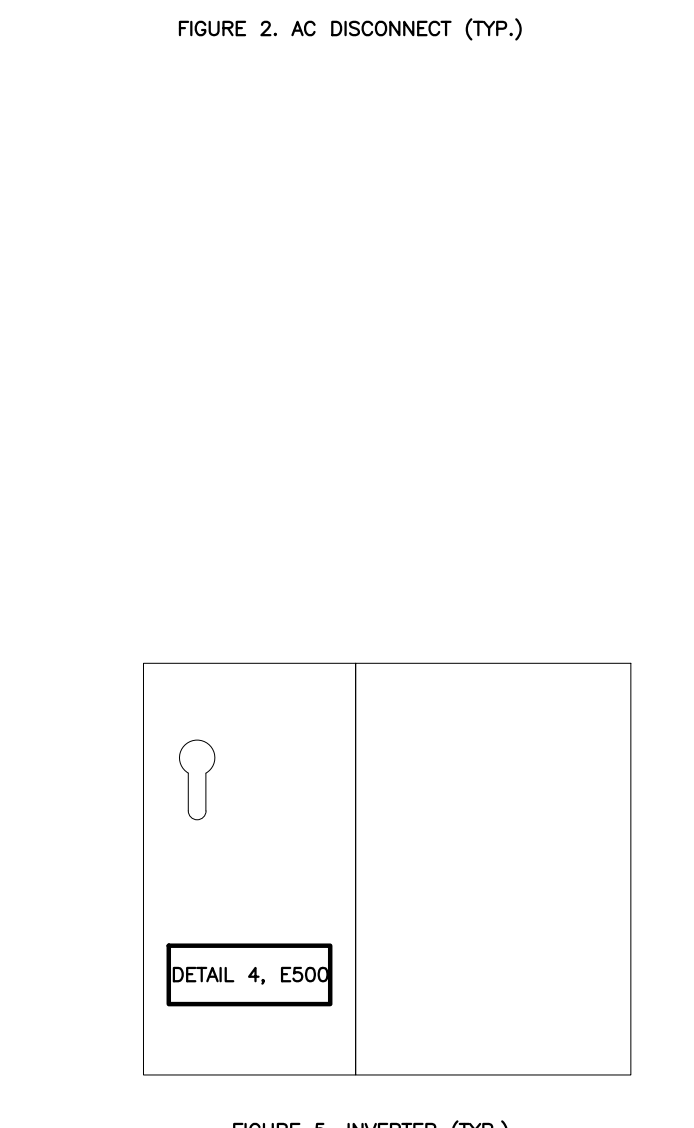
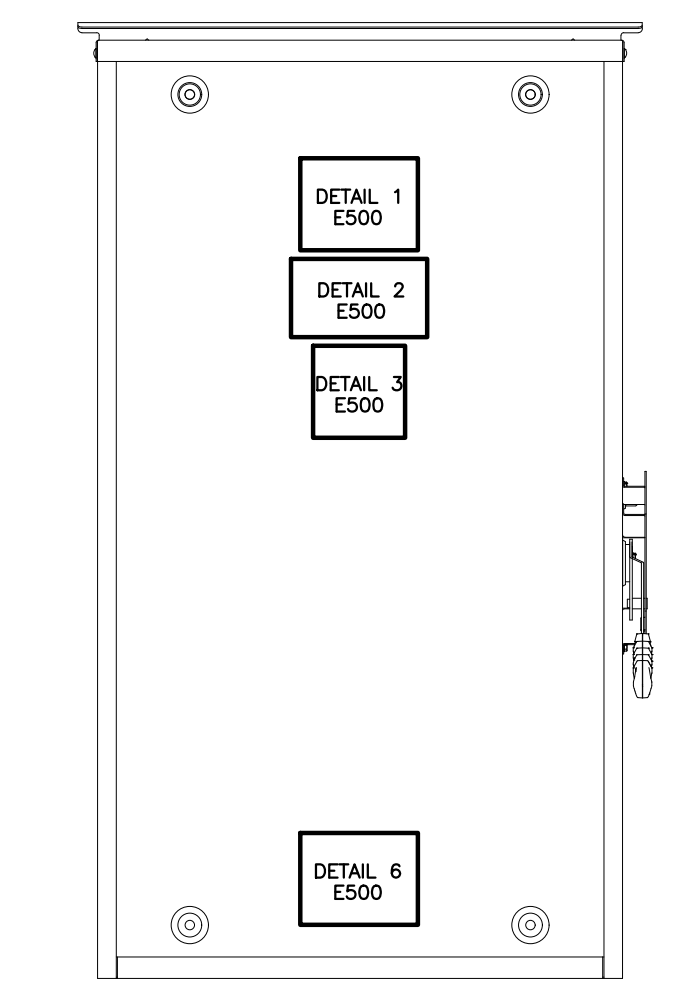
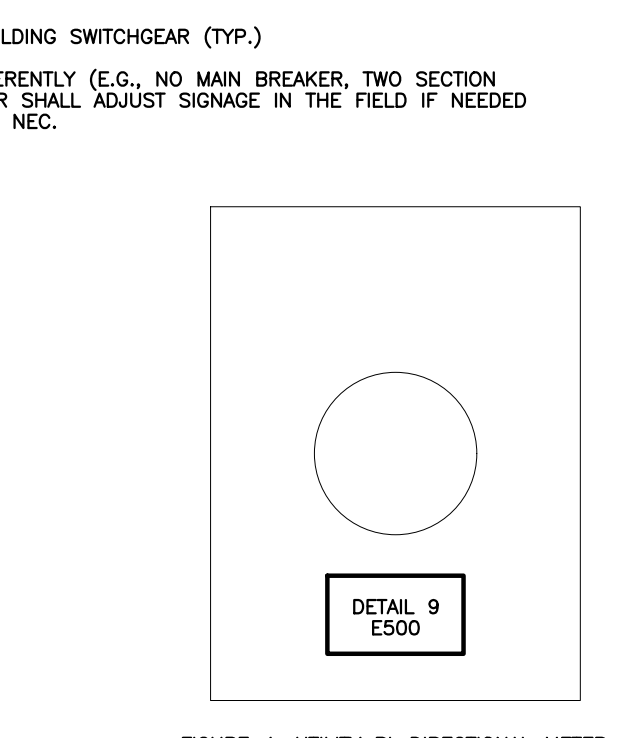
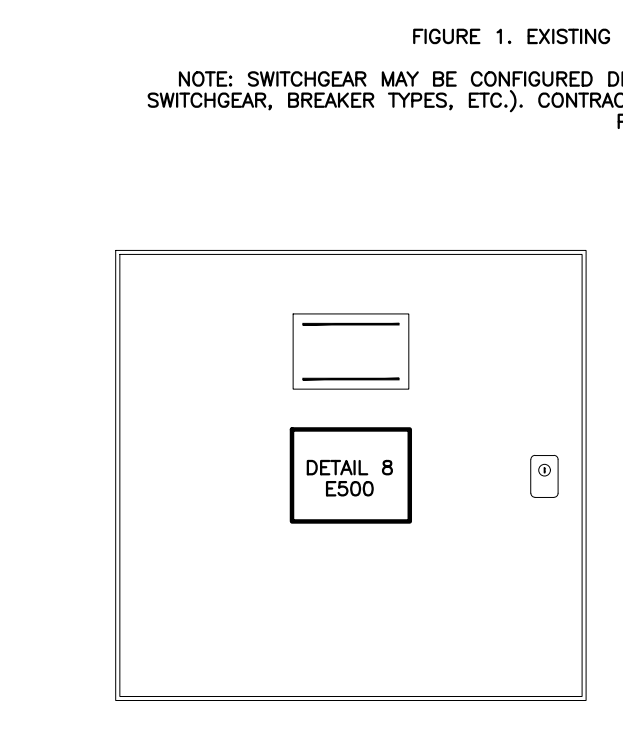
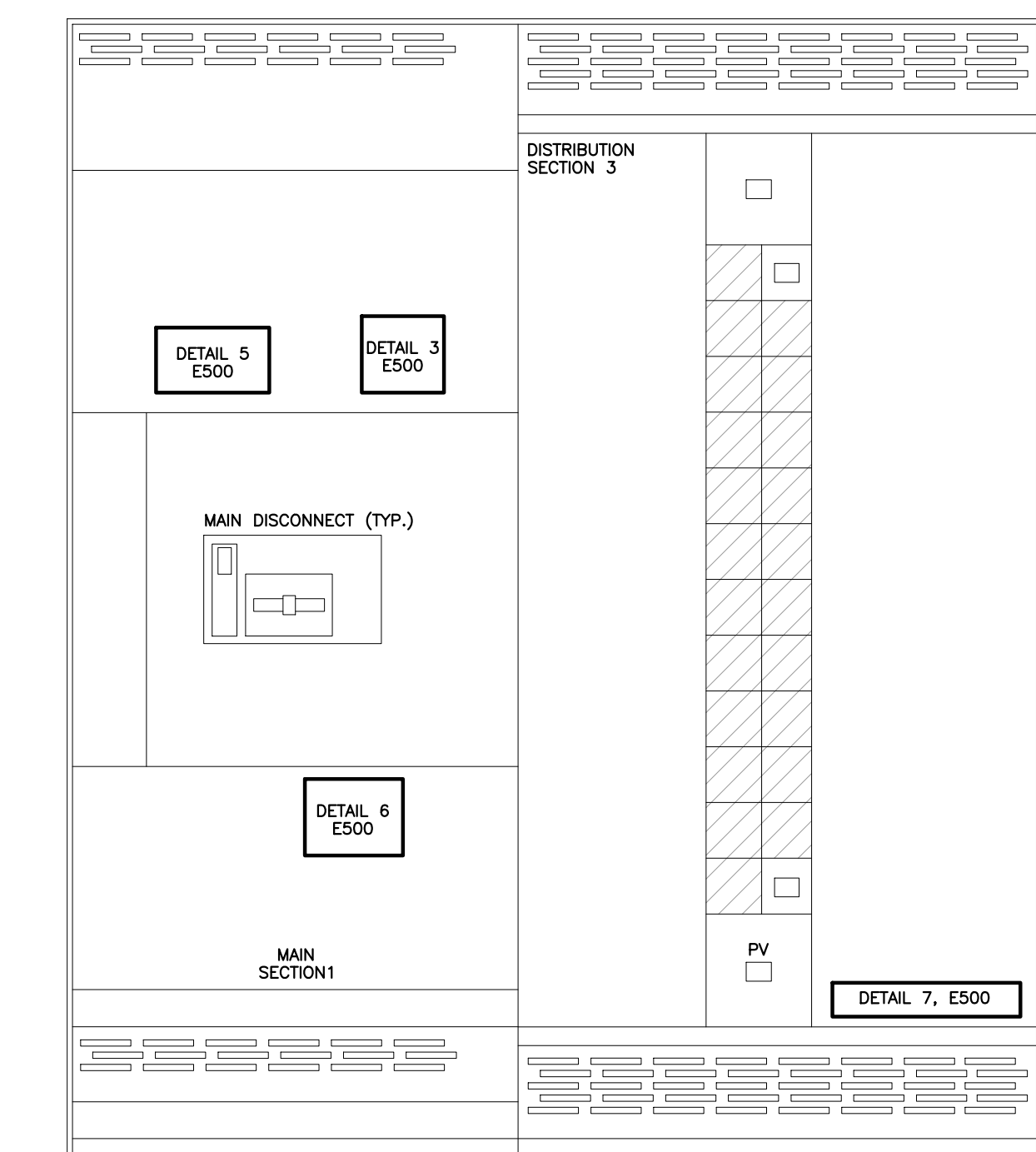


2 LABELS & SIGNAGE (SYSTEMS 2 & 5)
 E500 SCALE: 1" = 20'-0"



3 LABELS & SIGNAGE (SYSTEMS 6 & 3)
 E500 SCALE: 1" = 20'-0"

| | | |
|--|---|---|
| 1 MAIN SERVICE DISCONNECT SIGN E500 NOT TO SCALE THE MAIN SERVICE DISCONNECT IS LOCATED IN THE EXTERIOR MAIN MEDIUM VOLTAGE SWITCHGEAR | 2 ELECTRIC SHOCK HAZARD SIGN E500 NOT TO SCALE WARNING! ELECTRIC SHOCK HAZARD. TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION. NOTES: 1. LABEL REQUIRED PER CEC 690.13(B). | 3 INVERTER DIRECTORY SIGN E500 NOT TO SCALE ALL UTILITY INTERACTIVE INVERTERS ARE RACK MOUNTED LOCATED AT THE GROUND MOUNT ARRAY |
| 4 ELECTRIC SHOCK HAZARD SIGN E500 NOT TO SCALE WARNING! ELECTRIC SHOCK HAZARD. TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION. DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT NOTES: 1. LABEL REQUIRED PER NEC 690.13(B). | 5 PHOTOVOLTAIC DISCONNECT SIGN E500 NOT TO SCALE INTERACTIVE PHOTOVOLTAIC SYSTEM CONNECTED THE PHOTOVOLTAIC SYSTEM DISCONNECT IS LOCATED IN THE SYSTEM MEDIUM VOLTAGE SWITCHGEAR | 6 GREENSKIES EMERGENCY CONTACT INFORMATION E500 NOT TO SCALE PHONE NUMBER: 860-598-4890 EMAIL: Om_office@greenskies.com |
| 7 POWER SOURCE BACKFEED SIGN E500 NOT TO SCALE CAUTION! PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFEED | 8 DECK MONITORING/REC METER SIGN E500 NOT TO SCALE CUSTOMER OWNED PRODUCTION METER 600Y/347V NOTES: 1. LABEL SHALL BE APPLIED TO DECK MONITOR ENCLOSURE AND CUSTOMER OWNED REC METER. | 9 UTILITY BI-DIRECTIONAL METER SIGN E500 NOT TO SCALE WARNING! DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM NOTES: 1. LABEL REQUIRED PER NEC 690.59. |
| 10 AC RACEWAY LABEL E500 NOT TO SCALE WARNING: SOLAR AC CIRCUIT 600Y/347V | 11 BUILDING FRONT SIGN E500 NOT TO SCALE SOLAR PHOTOVOLTAIC POWER SOURCE LOCATED ON PREMISES NOTES: 1. LABEL SHALL BE REFLECTIVE, WITH LETTERS CAPITALIZED AND A MINIMUM HEIGHT OF 3/8" IN BLACK ON A YELLOW BACKGROUND. 2. CONTRACTOR TO INSTALL ONE LABEL PER INVERTER AC OUTPUT CONDUIT, WITHIN 10 FEET OF INVERTER. | |



4 CLIENT REQUIRED LABELS
 E500 SCALE: 1" = 20'-0"

DRAWING TITLE: LABELS & SIGNAGE

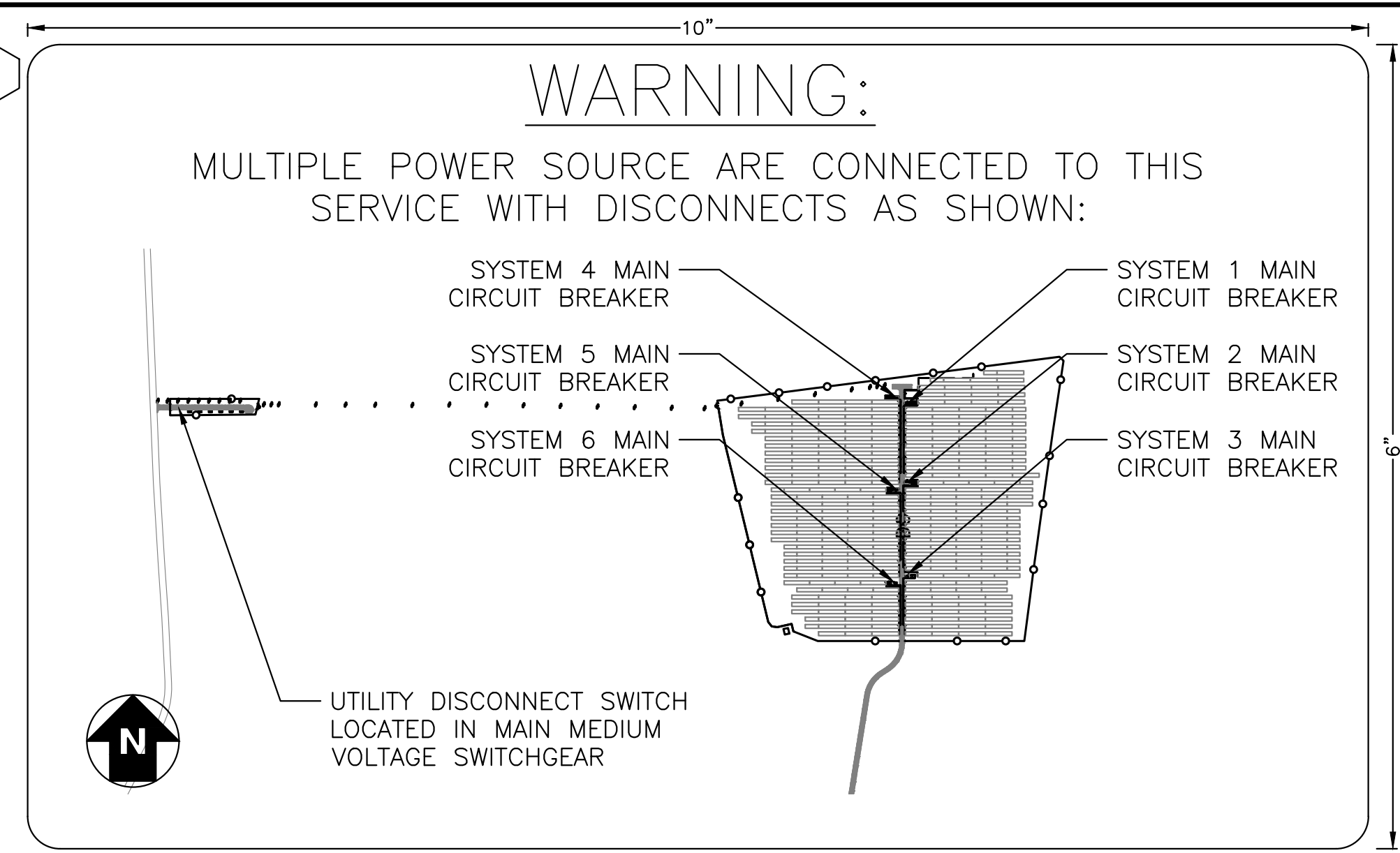
RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

GENERAL NOTES FOR LABELS:
 1. LABEL SCALE 1:2 UNLESS NOTED
 2. LETTERING ON SIGNS SHALL BE CAPITAL LETTERS
 3. CLEARLY LABEL ALL CIRCUIT BREAKERS IN THE PANELBOARD(S). THE LABEL SHALL INDICATE THE NAME OF THE DEVICE IT SERVES.

LABEL FORMAT NOTES:
 1. **FORMAT 1:** ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND. TEXT HEIGHT: TITLES 3/8", ALL OTHER TEXT 5/32".
 2. **FORMAT 2:** ENGRAVED MELAMINE, BLACK TEXT ON WHITE BACKGROUND. TEXT HEIGHT: 3/8".
 3. **FORMAT 3:** REFLECTIVE UV RATED LABEL, RED BACKGROUND WITH WHITE CAPITAL LETTERS AT LEAST 3/8" TALL. LABELS SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
 4. **FORMAT 4:** ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND. TEXT HEIGHT: TITLES 5/32", ALL OTHER TEXT 3/32".

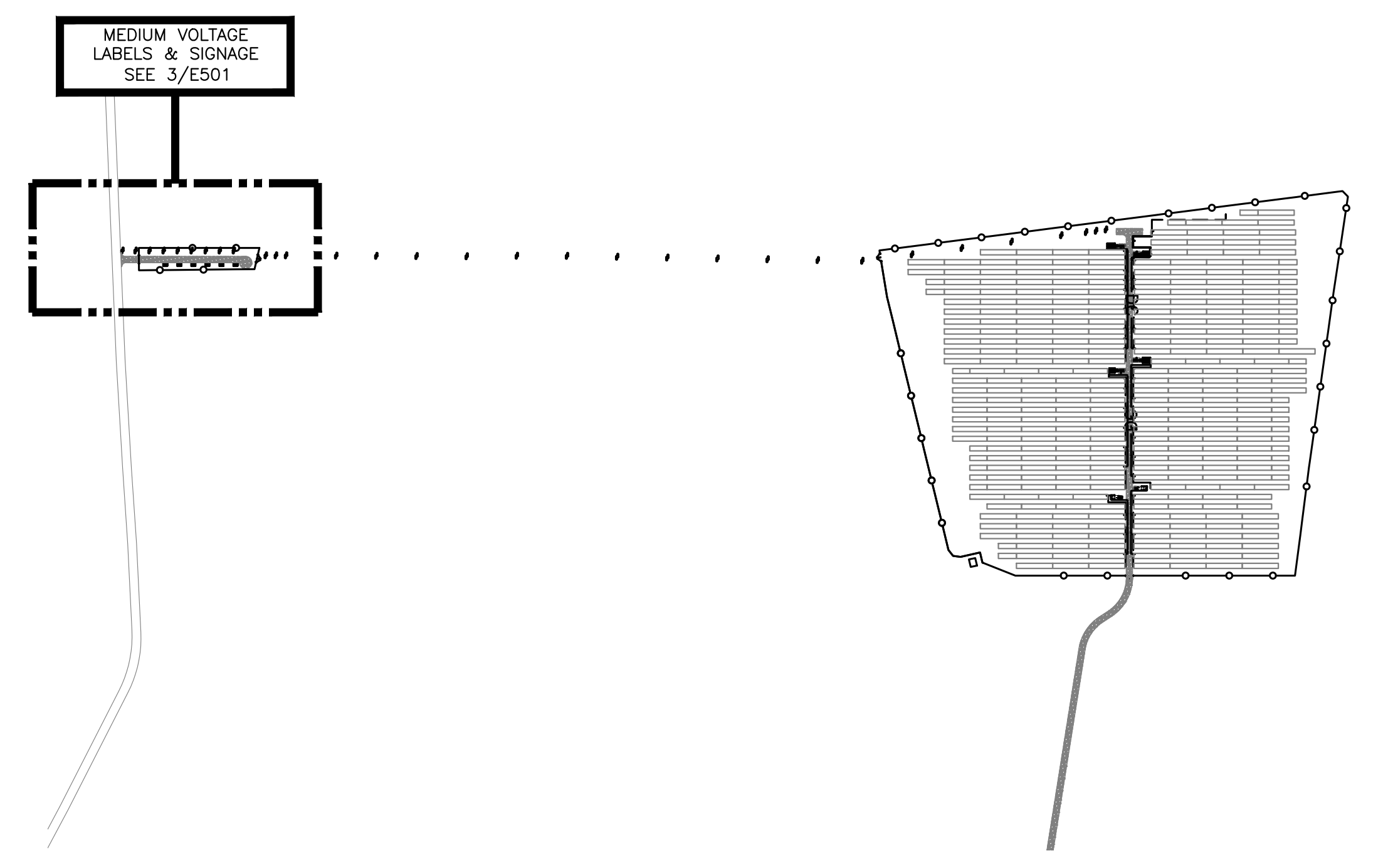
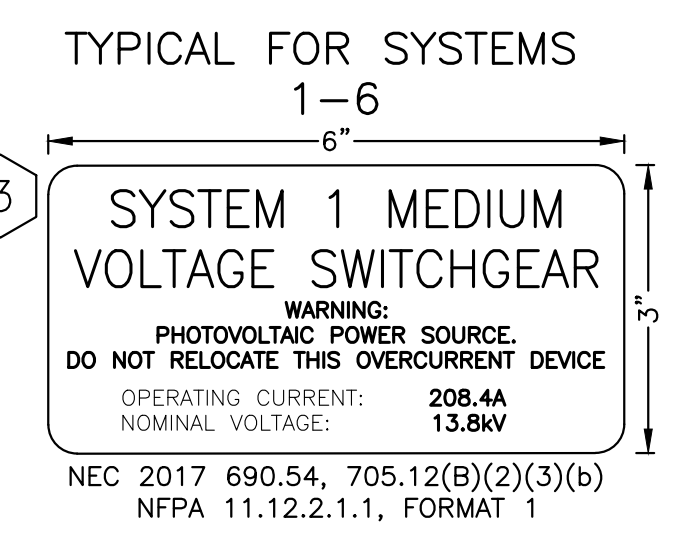
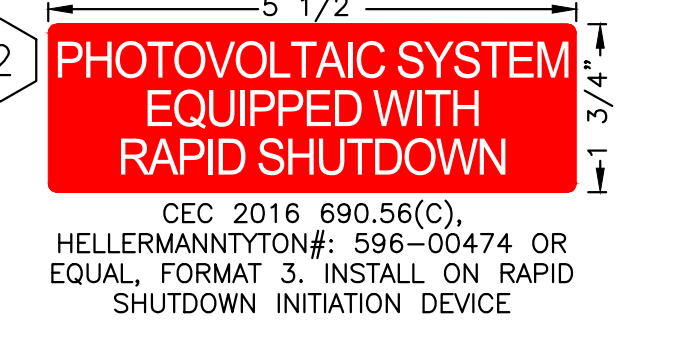
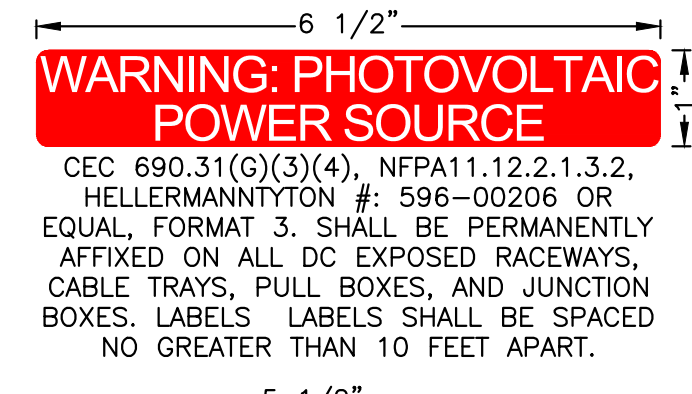
PER 2014 NEC 690.31(B)(1)&(2), PV SOURCE CIRCUITS, PV OUTPUT CIRCUITS AND INVERTER INPUT AND OUTPUT CIRCUITS SHALL BE IDENTIFIED AT ALL POINTS OF TERMINATION, CONNECTION, AND SPLICES.

- STRING HOMERUNS AT ARRAY
- DC INPUT TERMINALS OF COMBINER BOX
- DC OUTPUT TERMINALS OF COMBINER BOX
- DC INPUT TERMINAL OF INVERTER
- AC OUTPUT TERMINALS OF INVERTER
- AC INPUT & OUTPUT TERMINALS OF EACH SUCCESSIVE DEVICE (WHERE APPLICABLE)

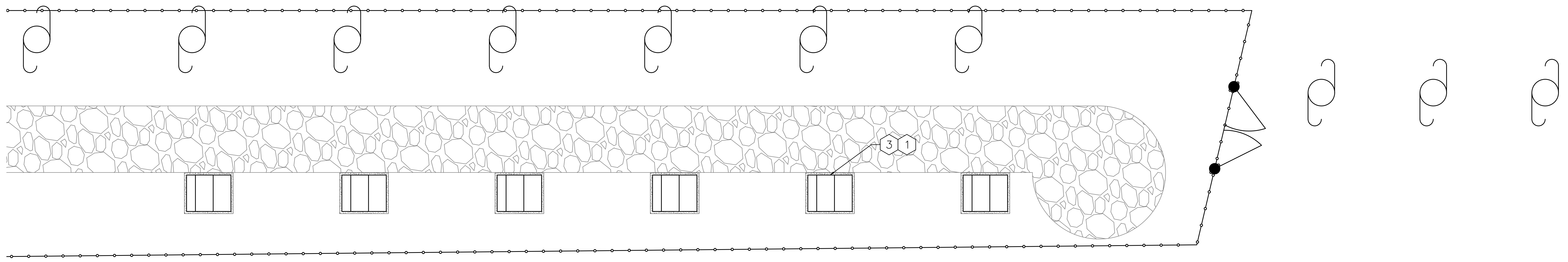


NEC 705.10 & 690.56(B)
 INSTALL AT MAIN DISCONNECT OF ALL POWER SOURCES. ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND, TITLE MIN. 1/2", DESCRIPTION 5/16", ALL OTHER TEXT 1/8"

1 DIRECTORY LABEL
 E501 / SCALE: 1:1



2 LABELS & SIGNAGE
 E501 / SCALE: 1" = 300'-0"



3 MEDIUM VOLTAGE LABELS & SIGNAGE
 E501 / SCALE: 3/32" = 1'-0"

| | |
|---------------------------------|-----------|
| DRAWING TITLE | DRAWING # |
| MEDIUM VOLTAGE LABELS & SIGNAGE | E501 |

| | | | |
|----------------------|--------------|------------------------|----------|
| DATE | 07/10/2020 | ISSUE FOR CONSTRUCTION | BX AD RI |
| | 03/13/2020 | PERMIT SET - REV. 1 | BX AD RI |
| REVISION DESCRIPTION | PM LEVIG CHK | PERMIT SET | BX AD RI |
| DATE | 02/19/2020 | PERMIT SET | BX AD RI |

PURE POWER
 5 MARINE VIEW PLAZA, HOBOKEN, NJ
 WWW.PUREPOWER.COM
 RICHARD A. VONN
 CT LICENSE NO. 03629262

GREENSKIES
 180 JOHNSON STREET,
 MIDDLETOWN, CT 06457
 WWW.GREENSKIES.COM
 a Clean Focus company

DEVELOPER
GREENSKIES
 a Clean Focus company

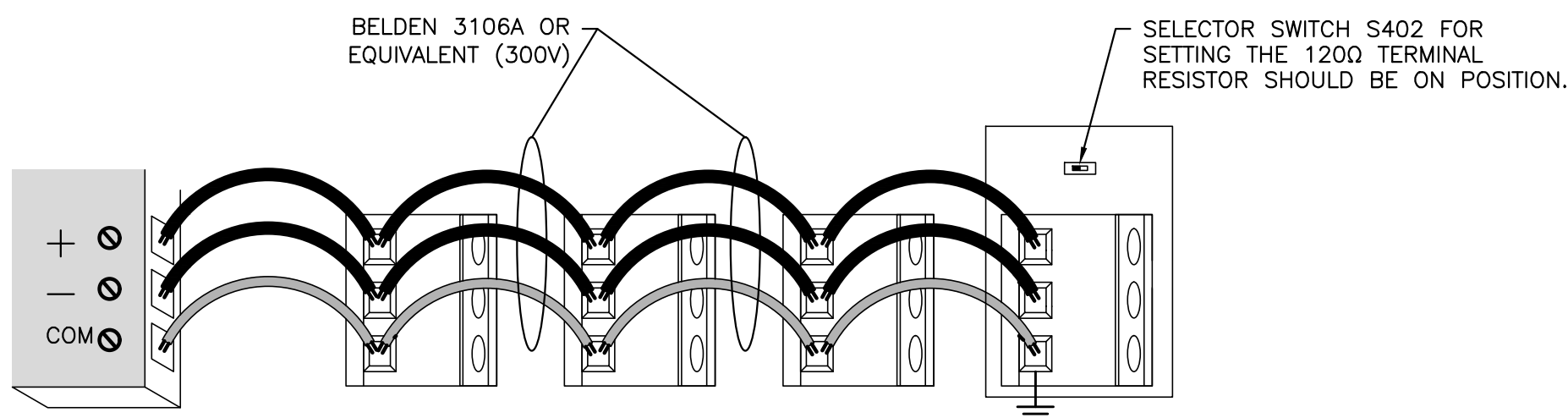
PAGE SIZE
 3.6" x 24"

PROJECT #
 PPE 00083

DC SYSTEM SIZE: 6095.440 kW
 AC SYSTEM SIZE: 4980.000 kW
 MODULE TYPE: CANADIAN 360W/400W
 MODULE QUANTITY: 8294/7774
 ORIENTATION: 25° TILT, 0° AZIMUTH

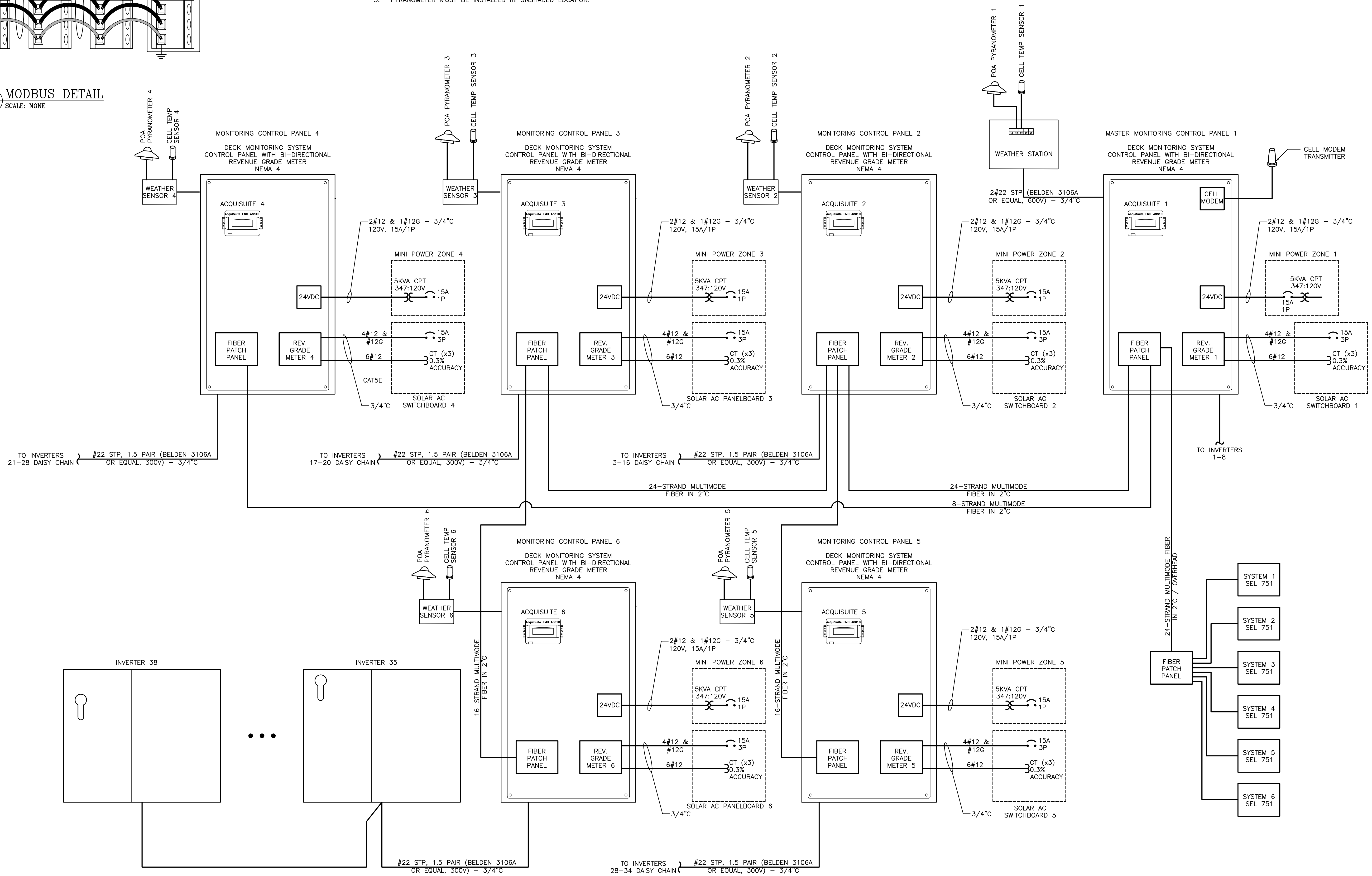
PROJECT
 6095.440 KW GROUND MOUNT SYSTEM AT
 STONINGTON TAUGWONK
 35 TAUGWONK SPUR ROAD
 STONINGTON, CT 06378

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



2 MODBUS DETAIL
SCALE: NONE

MONITORING NOTES:
 1. REFER TO MONITORING SYSTEM INSTALLATION MANUAL FOR DETAILS ON TERMINAL BLOCKS, CABLE TERMINATIONS, AND SYSTEM CONFIGURATION.
 3. PYRANOMETER MUST BE INSTALLED IN UNSHADED LOCATION.



1 MONITORING SYSTEM WIRING DIAGRAM
SCALE: NONE

DRAWING TITLE
MONITORING SYSTEM WIRING DIAGRAM

| | |
|---|--|
| 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM a Clean Focus company | DATE: 04/23/2020 REVISION DESCRIPTION: PERMIT SET - REV. 3 DATE: 03/13/2020 REVISION DESCRIPTION: PERMIT SET - REV. 1 DATE: 02/19/2020 REVISION DESCRIPTION: PERMIT SET |
| | PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378 DC SYSTEM SIZE: 6095.440 KW AC SYSTEM SIZE: 4980.000 KW MODULE TYPE: CANADIAN 360W/400W MODULE QUANTITY: 8294/7774 ORIENTATION: 25° TILT, 0° AZIMUTH |
| | PAGE SIZE: 36" x 24" PROJECT #: PPE 00083 DEVELOPER: Greenskies |