

PHOTOVOLTAIC ELECTRIC SYSTEM
YOSEMITE HIGH SCHOOL - NORTH WEST CAMPUS
290.0KW
50200 HIGH SCHOOL RD, OAKHURST, CA 93644

PROJECT TEAM

DESIGN PROFESSIONAL:	ELECTRICAL ENGINEER ON RECORD:	STRUCTURAL ENGINEER ON RECORD:
TEDD KELLEY 116 INVERNESS DR E SUITE 109 ENGLEWOOD, CO 80112 TEL: (303) 346-8975 TKELLEY@WILLDAN.COM	TBD	TBD

WILLDAN
 2401 E. KATELLA AVE, SUITE 300
 ANAHEIM, CA 92806
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PROJECT SCOPE

SCOPE OF WORK INCLUDES THE INSTALLATION OF FIXED TILT GROUND MOUNTED PHOTOVOLTAIC SYSTEM AT AN EXISTING SCHOOL CAMPUS. THE PV SYSTEM WILL CONSIST OF DSA PRE-CHECK APPROVED PV RACKING. PHOTOVOLTAIC ELECTRIC SYSTEM CONSISTS OF ALL ASSOCIATED ELECTRICAL EQUIPMENT, RACKING, LIGHTING, PRODUCTION MONITORING, AND ALL OTHER EQUIPMENT REQUIRED FOR THIS PV SYSTEM TO OPERATE AND INTERCONNECT TO THE UTILITY GRID. THIS SYSTEM WILL BE INTERCONNECTED TO AND WILL BE OPERATED IN PARALLEL WITH THE PG&E ELECTRIC GRID PER THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND UTILITY INTERCONNECT AGREEMENT.

AUTHORITY HAVING JURISDICTION (AHJ)

DIVISION OF THE STATE ARCHITECT DSA

ELECTRIC UTILITY

PG&E

CODE SUMMARY & REGULATIONS

THIS PROJECT IS SUBJECT TO DRAWING REVIEW AND JOB SITE INSPECTIONS BY A REPRESENTATIVE APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA)

- THIS PROJECT SHALL CONFORM TO THE FOLLOWING CODE VERSIONS:
 2022 CALIFORNIA BUILDING CODE (CBC) ALL PARTS OF TITLE 24, C.C.R.
 2022 CALIFORNIA ELECTRIC CODE (CEC)
 2022 CALIFORNIA FIRE CODE (CFC)
 2022 CALIFORNIA ENERGY CODE (CEnc)
 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSG)
 2022 CALIFORNIA PLUMBING CODE (CPC)
 2022 CALIFORNIA MECHANICAL CODE (CMC)

- 110.2 APPROVAL: ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
- ALL CHANGES TO THE APPROVED DRAWINGS SHALL BE MADE BY ADDENDUM OR CHANGE DOCUMENTS APPROVED BY THE DIVISION OF THE STATE ARCHITECT.
- A CERTIFIED DSA INSPECTOR SHALL PROVIDE ONGOING INSPECTION OF ALL WORK ON THE SITE THROUGHOUT CONSTRUCTION ACCORDING TO CBC ADMINISTRATIVE CODE.
- CLASS II CERTIFIED DSA INSPECTOR IS REQUIRED FOR THIS PROJECT
- DSA INSPECTOR MUST BE CERTIFIED IN MECHANICAL STRUCTURAL AND ELECTRICAL WORK.



AERIAL VIEW

Sheet List Table	
Sheet Number	Sheet Title
T100	Title Sheet
A100	General Site Plan
A200	Array Layout; Ground Mount Option
A201	Array Layout; Canopy Option
E001	Electrical Notes
E100	Electrical Site Plan
E201	Electrical PV Details
E203	Electrical Canopy Details
E701	Single-Line Diagram; GM Option
E702	Single Line Diagram – Canopy Opt

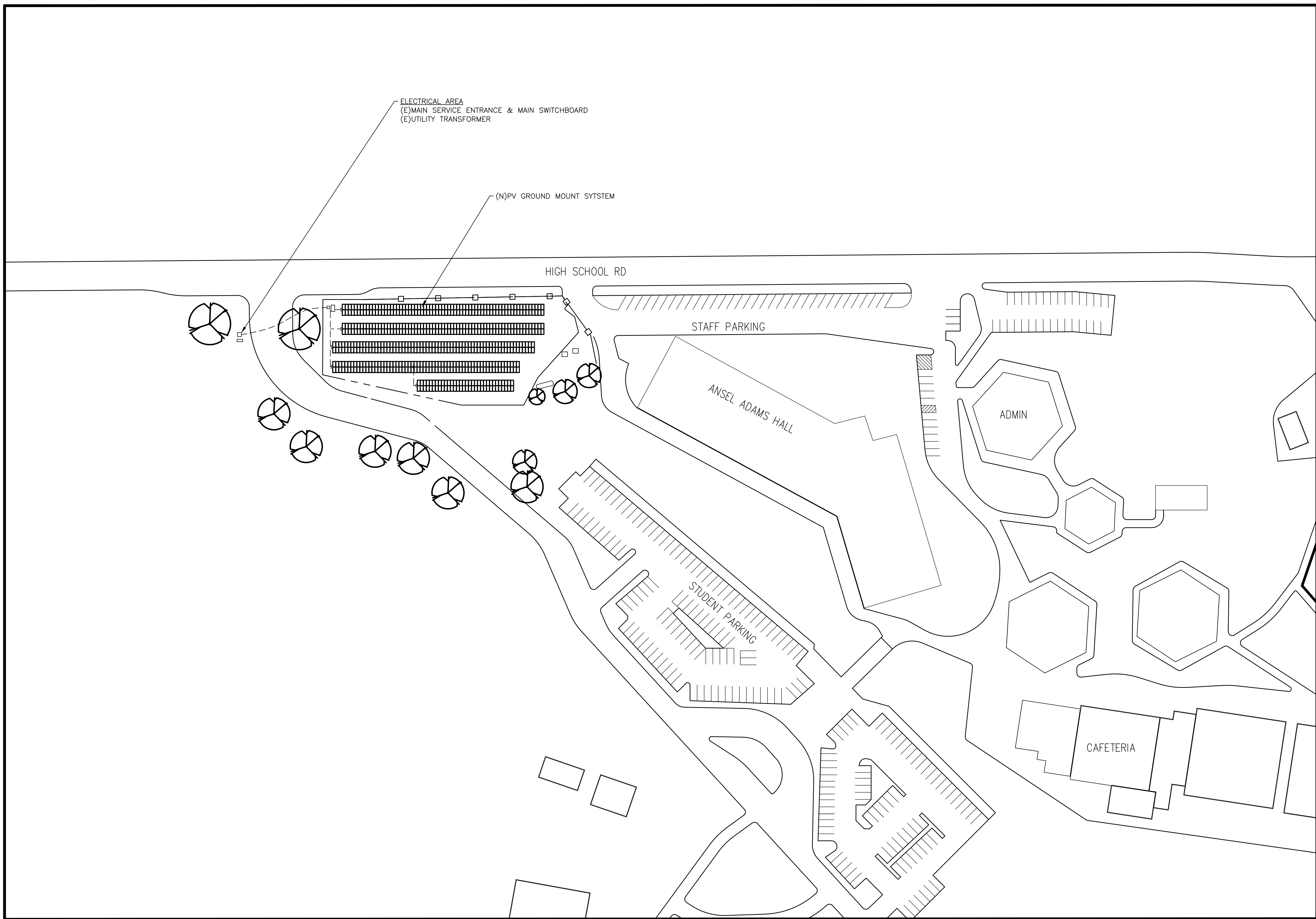
PROFESSIONAL SEAL
 PRELIMINARY
 NOT FOR
 CONSTRUCTION

PROJECT TITLE
**PHOTOVOLTAIC ELECTRIC SYSTEM
 YOSEMITE USD - YOSEMITE HS -
 PV NORTH WEST CAMPUS**
 50200 HIGH SCHOOL RD, OAKHURST, CA 93644
60% DESIGN

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PROJECT NO:	----			
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SHEET TITLE
 TITLE SHEET

T100



1 GENERAL SITE PLAN - SCALE 1/64" = 1'-0" NORTH

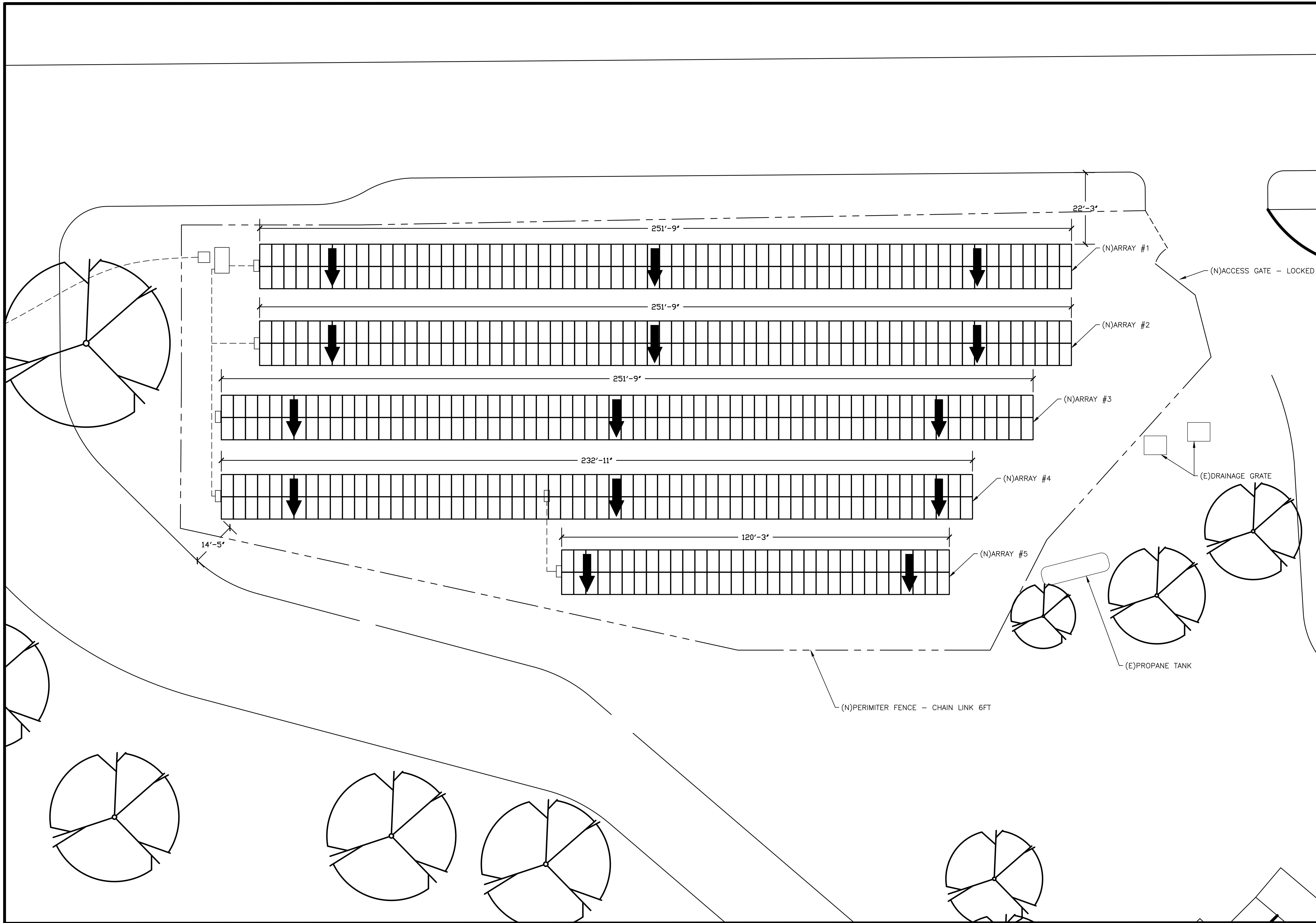
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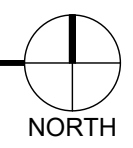
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1 ARRAY LAYOUT PLAN
 SCALE: 1/32" = 1'-0" (11X17)
 SCALE: 1/16" = 1'-0" (22X34)



PV ARRAY SUMMARY						
	MODULE QTY	ARRAY TYPE	TILT DEG	AZIMUTH DEG	CLEARANCE	ROW X COLUMN
ARRAY 1	134	FIXED TILT GM	20°	180°	NA	2 X 67
ARRAY 2	134	FIXED TILT GM	20°	180°	NA	2 X 67
ARRAY 3	134	FIXED TILT GM	20°	180°	NA	2 X 67
ARRAY 4	124	FIXED TILT GM	20°	180°	NA	2 X 62
ARRAY 5	64	FIXED TILT GM	20°	180°	NA	2 X 32

PROFESSIONAL SEALS

PRELIMINARY
 NOT FOR
 CONSTRUCTION

PROJECT TITLE

**PHOTOVOLTAIC ELECTRIC SYSTEM
 YOSEMITE USD - YOSEMITE HS -
 PV NORTH WEST CAMPUS**

60% DESIGN

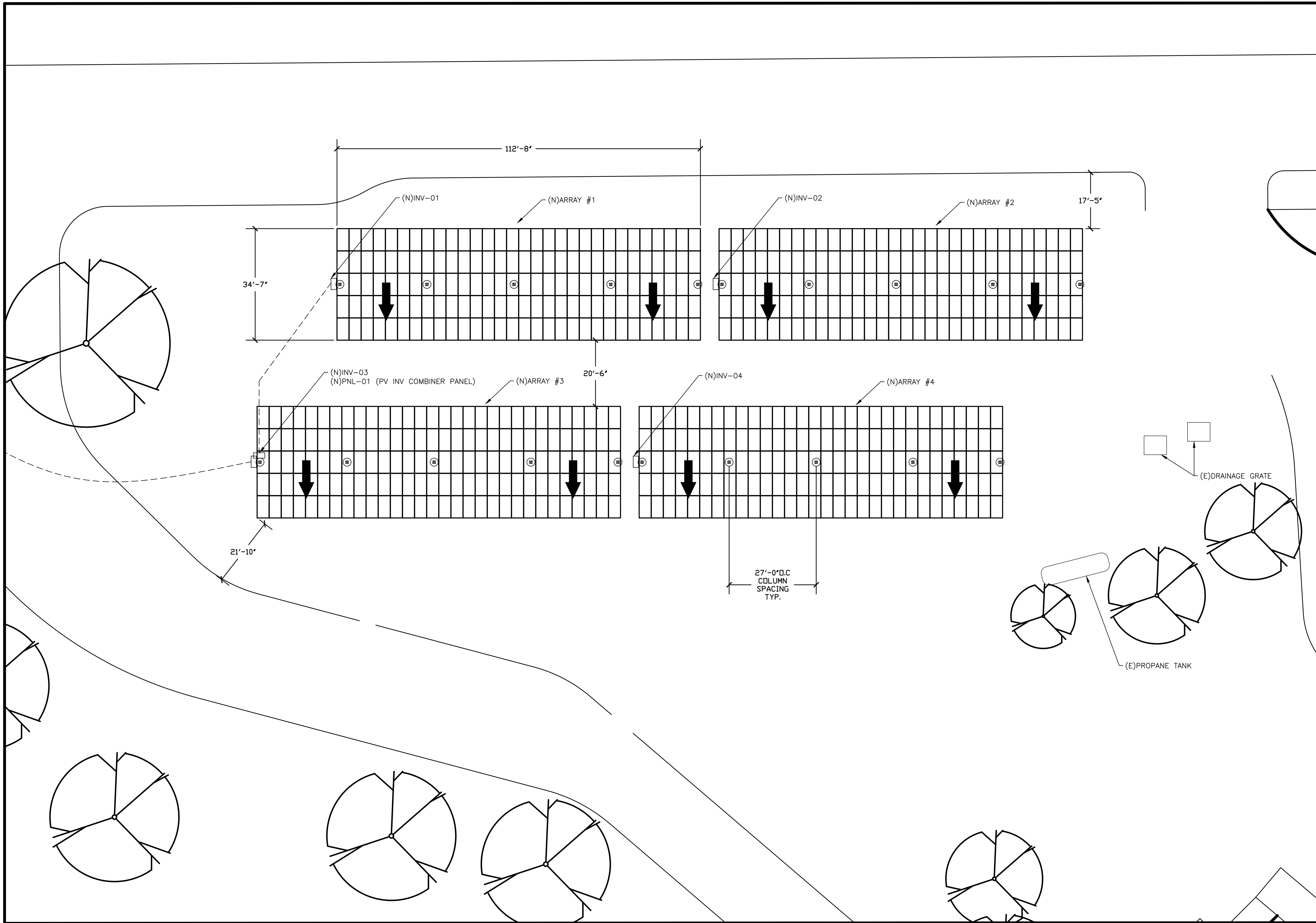
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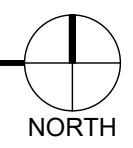
SHEET TITLE
 ARRAY LAYOUT; GROUND
 MOUNT OPTION

A200

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1 ARRAY LAYOUT PLAN
 SCALE: 1/32" = 1'-0" (11X17)
 SCALE: 1/16" = 1'-0" (22X34)



CANOPY OPTION; PV ARRAY SUMMARY						
	MODULE QTY	ARRAY TYPE	TILT DEG	AZIMUTH DEG	CLEARANCE	ROW X COLUMN
ARRAY 1	150	PV SHADE CANOPY	5°	180°	12'-0"	5 X 30
ARRAY 1	150	PV SHADE CANOPY	5°	180°	12'-0"	5 X 30
ARRAY 1	150	PV SHADE CANOPY	5°	180°	12'-0"	5 X 30
ARRAY 1	150	PV SHADE CANOPY	5°	180°	12'-0"	5 X 30

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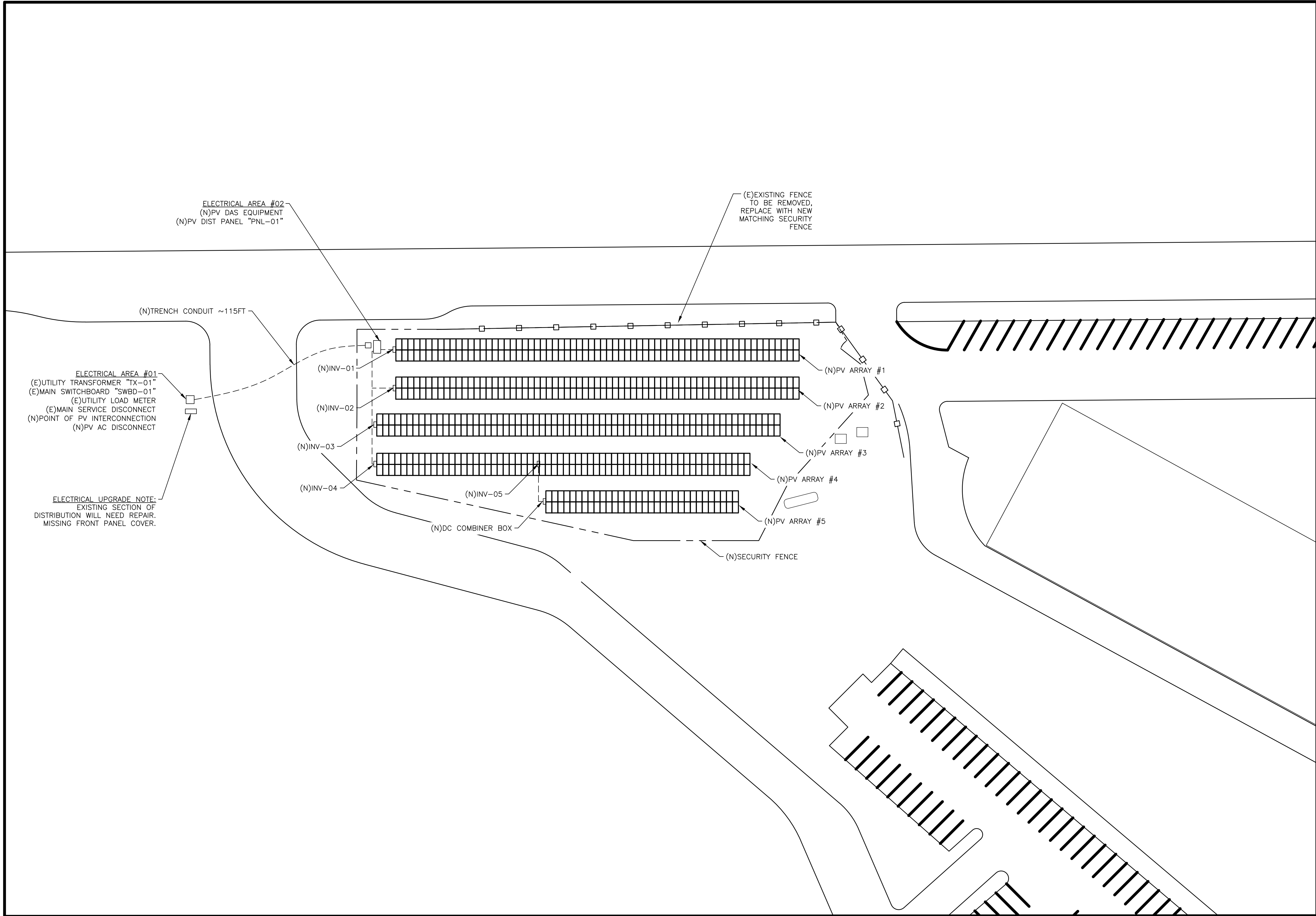
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SHEET TITLE
 ARRAY LAYOUT; CANOPY
 OPTION

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ELECTRICAL UPGRADE NOTE:
EXISTING SECTION OF
DISTRIBUTION WILL NEED REPAIR,
MISSING FRONT PANEL COVER.

ELECTRICAL AREA #02
(N)PV DAS EQUIPMENT
(N)PV DIST PANEL "FNL-01"

(E)EXISTING FENCE
TO BE REMOVED,
REPLACE WITH NEW
MATCHING SECURITY
FENCE

ELECTRICAL AREA #01
(E)UTILITY TRANSFORMER "TX-01"
(E)MAIN SWITCHBOARD "SWBD-01"
(E)UTILITY LOAD METER
(E)MAIN SERVICE DISCONNECT
(N)POINT OF PV INTERCONNECTION
(N)PV AC DISCONNECT

(N)TRENCH CONDUIT ~115FT

(N)INV-01

(N)INV-02

(N)INV-03

(N)INV-04

(N)INV-05

(N)DC COMBINER BOX

(N)SECURITY FENCE

(N)PV ARRAY #1

(N)PV ARRAY #2

(N)PV ARRAY #3

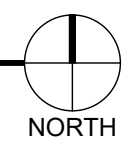
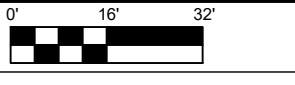
(N)PV ARRAY #4

(N)PV ARRAY #5

1

ELECTRICAL SITE PLAN

SCALE: 1/8" = 1'-0" (11X17)
SCALE: 1/32" = 1'-0" (22X34)



GROUND MOUNT OPTION; PV ARRAY SUMMARY

ARRAY	MODULE QTY	ARRAY TYPE	TILT DEG	AZIMUTH DEG	CLEARANCE	ROW X COLUMN
ARRAY 1	134	FIXED TILT GM	20°	180°	NA	2 X 67
ARRAY 2	134	FIXED TILT GM	20°	180°	NA	2 X 67
ARRAY 3	134	FIXED TILT GM	20°	180°	NA	2 X 67
ARRAY 4	124	FIXED TILT GM	20°	180°	NA	2 X 62
ARRAY 5	64	FIXED TILT GM	20°	180°	NA	2 X 32

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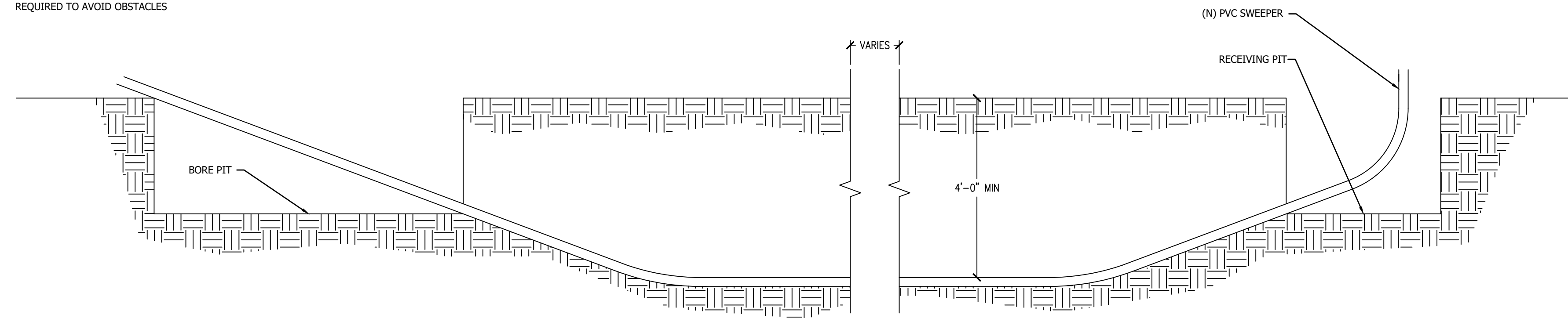
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SHEET TITLE
ELECTRICAL SITE PLAN; GM
OPTION

E100

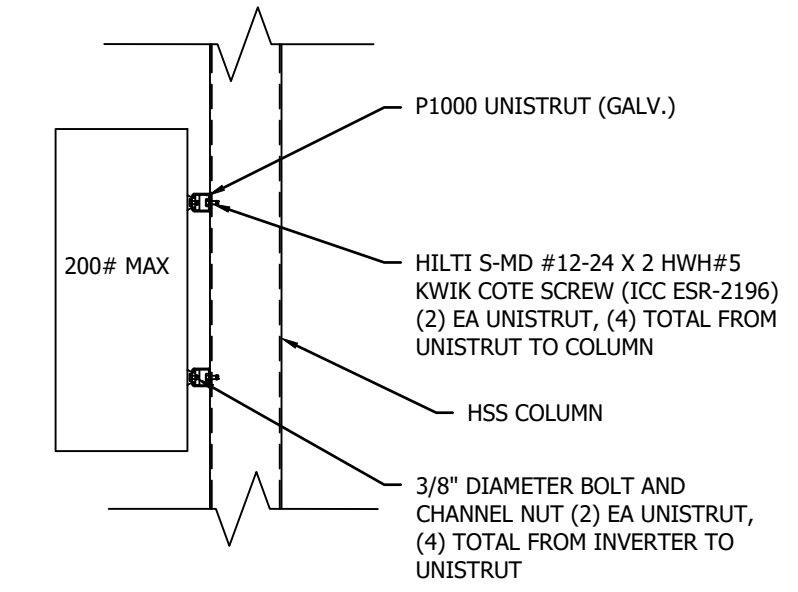
NOT ALL DETAILS WILL BE APPLICABLE TO CONSTRUCTION AT THIS PROJECT —

NOTE:
4" BORE DEPTH TO BE MAINTAINED EXCEPT WHERE ELEVATION CHANGES ARE REQUIRED TO AVOID OBSTACLES



A HORIZONTAL BORE DETAIL
70.01 HORIZONTAL BORE DETAIL

NTS

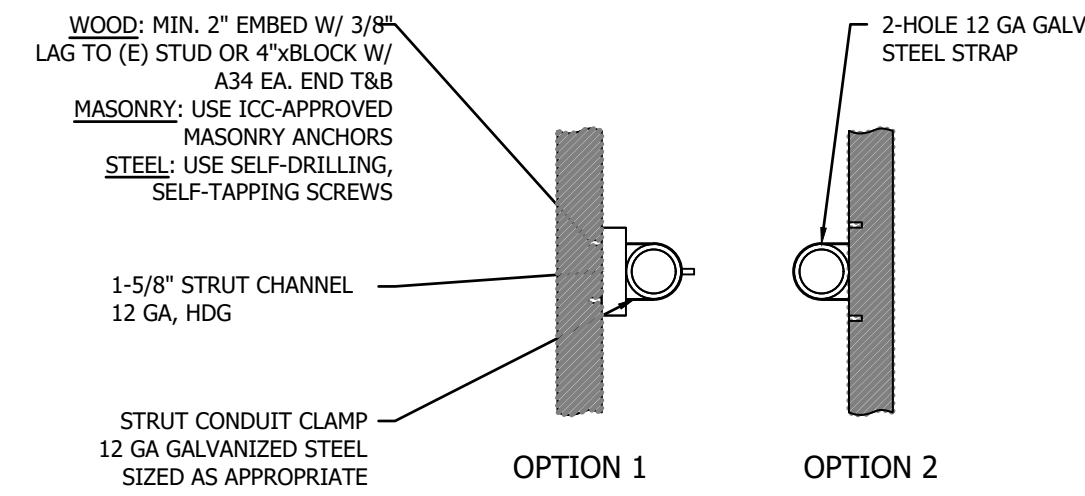


NOTE: HILTI SCREW TO PENETRATE A MINIMUM OF THREE THREADS THROUGH STEEL OF UNISTRUT, A MINIMUM OF 1.5 TIMES THE DIAMETER OR .432" FROM THE CENTER OF THE SCREW TO THE EDGE OF THE UNISTRUT HOLE.

B CANOPY COLUMN EQUIPMENT MOUNT
70.01 CANOPY COLUMN EQUIPMENT MOUNT

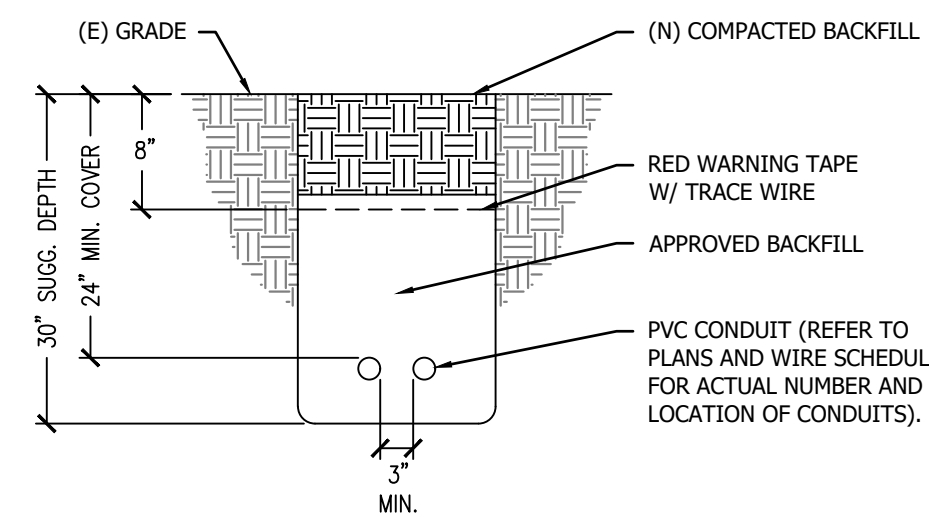
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NOTE: ALL HOLES FOR CONDUIT SHALL BE PROVIDED WITH CONDUIT FITTINGS HAVING AN ENVIRONMENTAL RATING APPROVED TO MAINTAIN NEMA 3R ENCLOSURE RATING (UL508A, TABLE 19.2). IN GENERAL COMPONENTS MARKED "WEATHERPROOF" OR "RAINPROOF" SHALL BE INSTALLED ONLY BELOW THE LOWEST UNINSULATED LIVE PARTS WITHIN THE ENCLOSURE. CONDUIT OPENINGS ABOVE THE LOWEST UNINSULATED LIVE PARTS SHALL BE PROVIDED WITH CONDUIT FITTINGS MARKED "WET LOCATION" OR "RAINTIGHT".



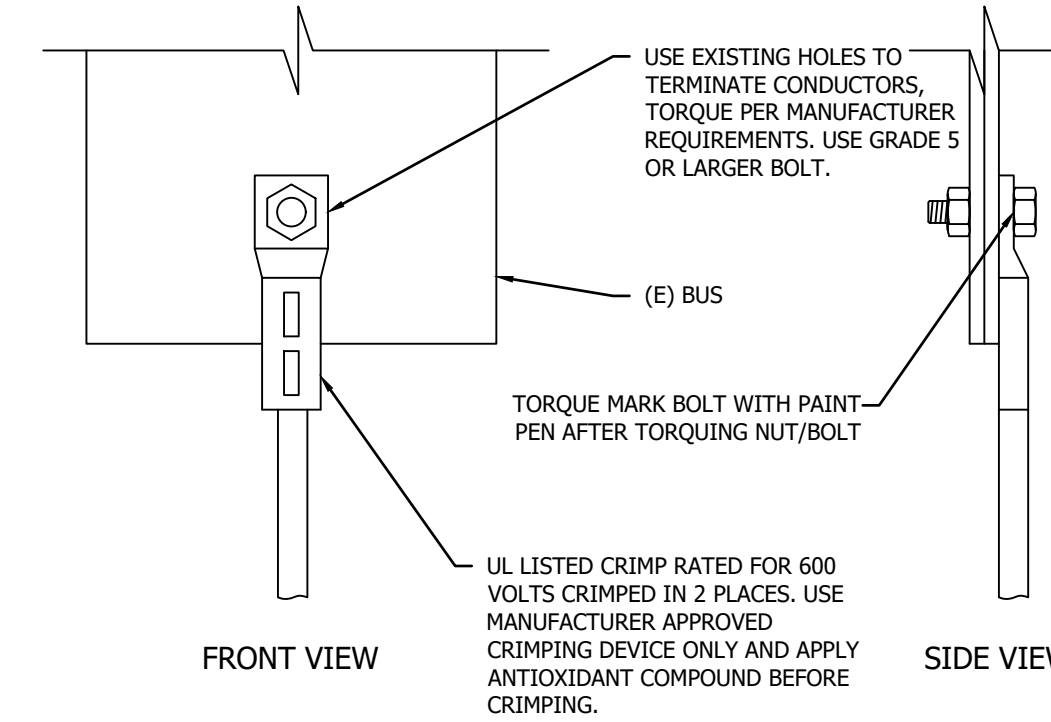
C CONDUIT SUPPORT - WALL
70.02 CONDUIT SUPPORT - WALL

NTS



D TRENCH THROUGH SOIL TRAFFIC DETAIL
70.03 TRENCH THROUGH SOIL TRAFFIC

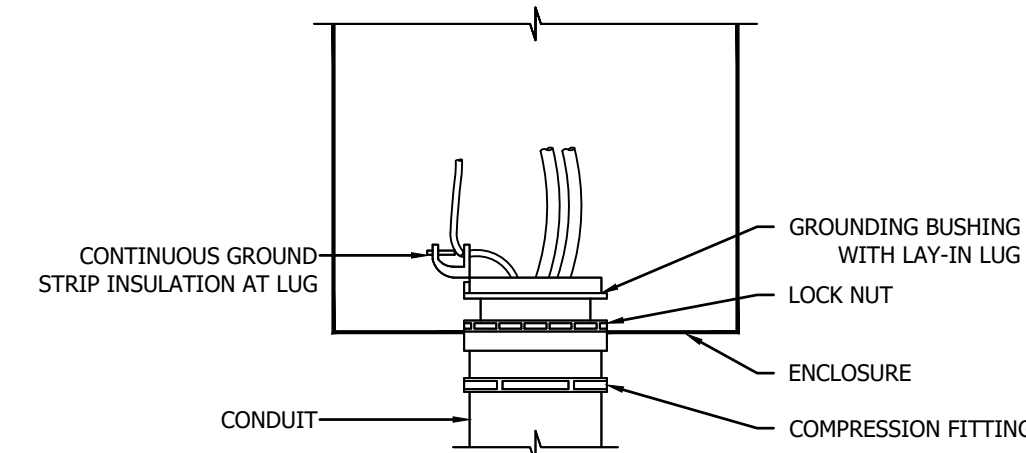
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NOTE:
ALUMINUM CONDUCTORS SHALL NOT BE TERMINATED WITH MECHANICAL LUGS.

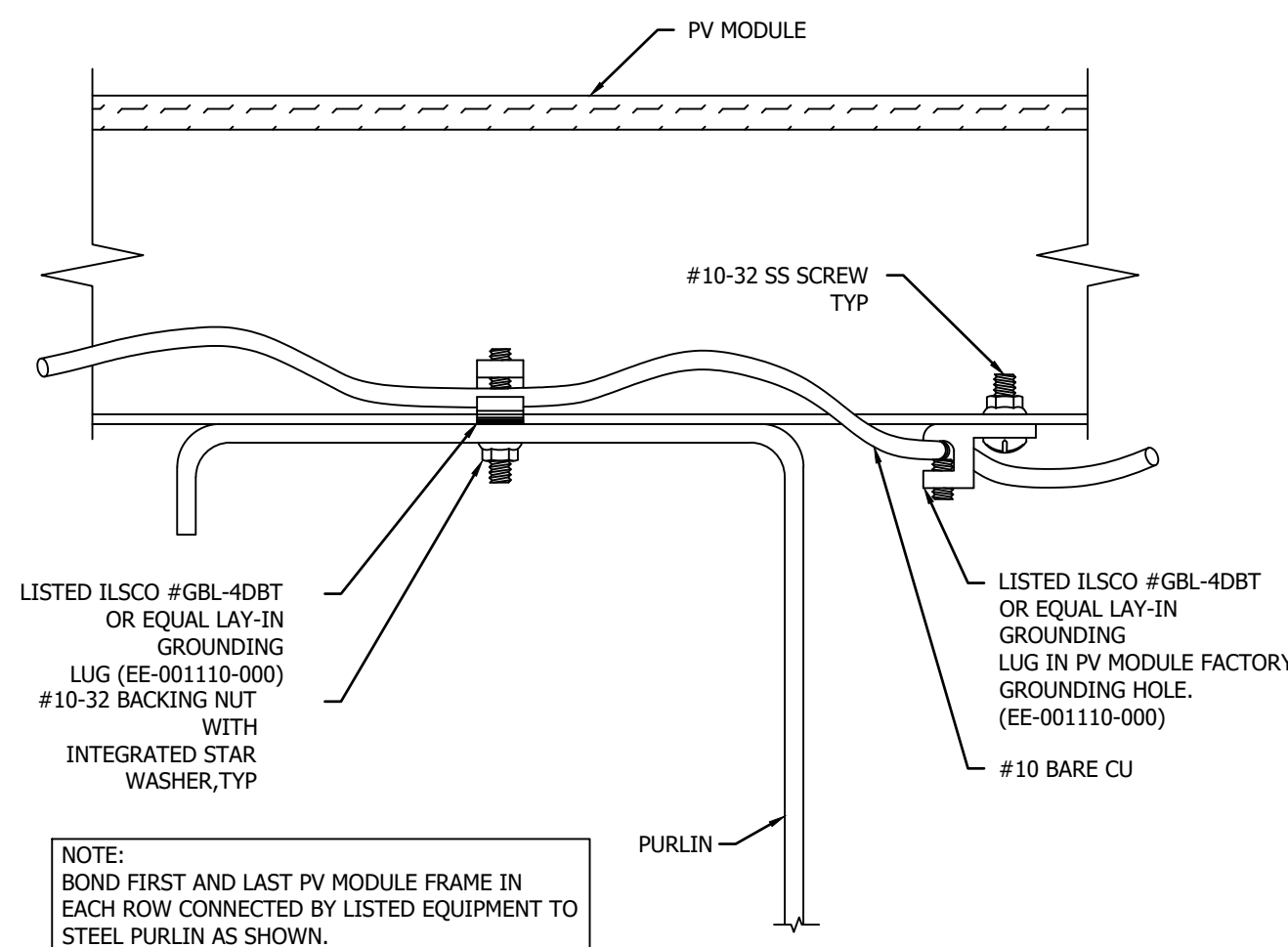
E ALUMINUM CONDUCTOR TERMINATION DETAIL
70.01 ALUMINUM CONDUCTOR TERMINATION

NTS



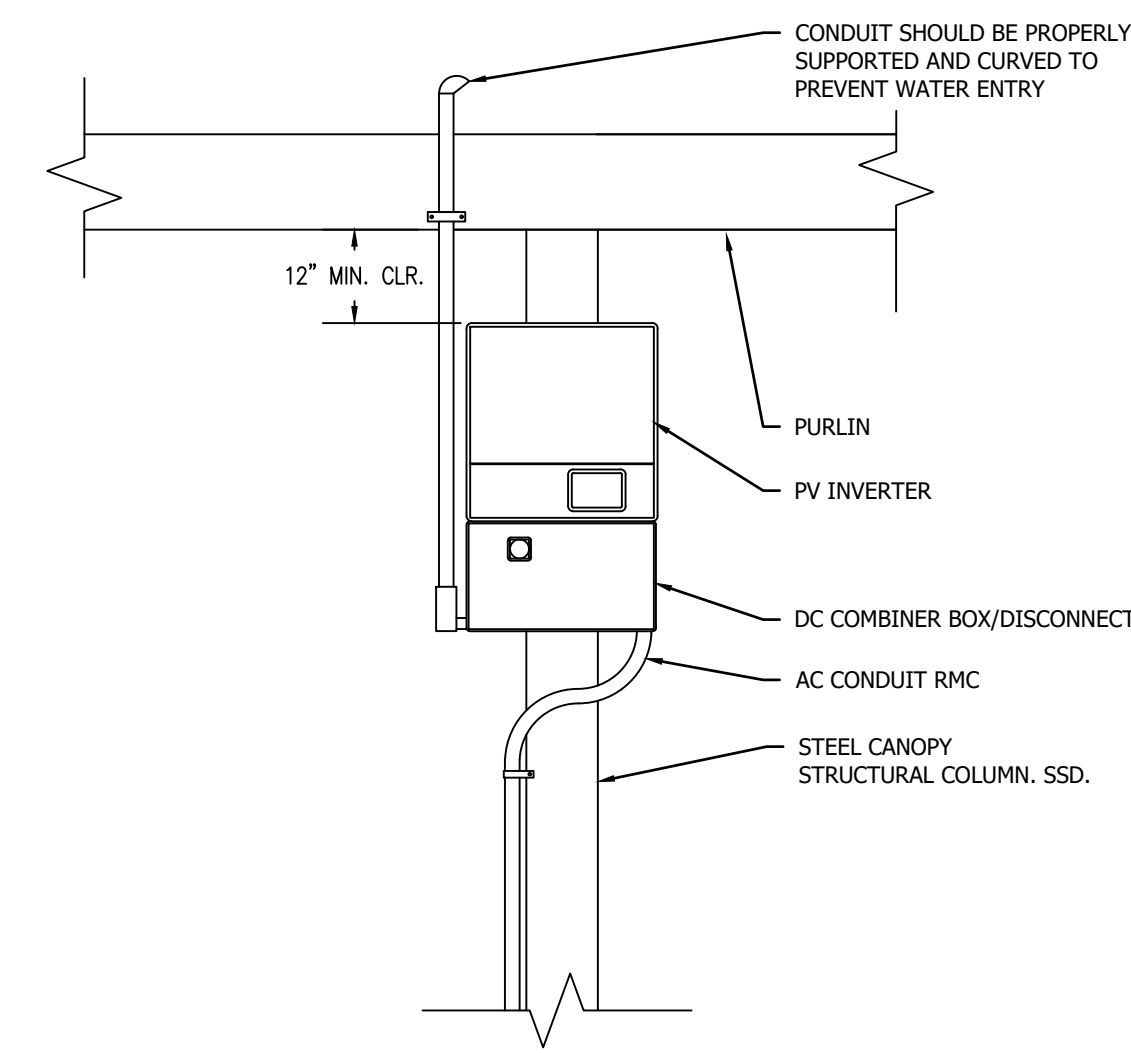
F CONDUIT GROUNDING DETAIL
70.03 CONDUIT GROUNDING AT ENCLOSURE

NTS



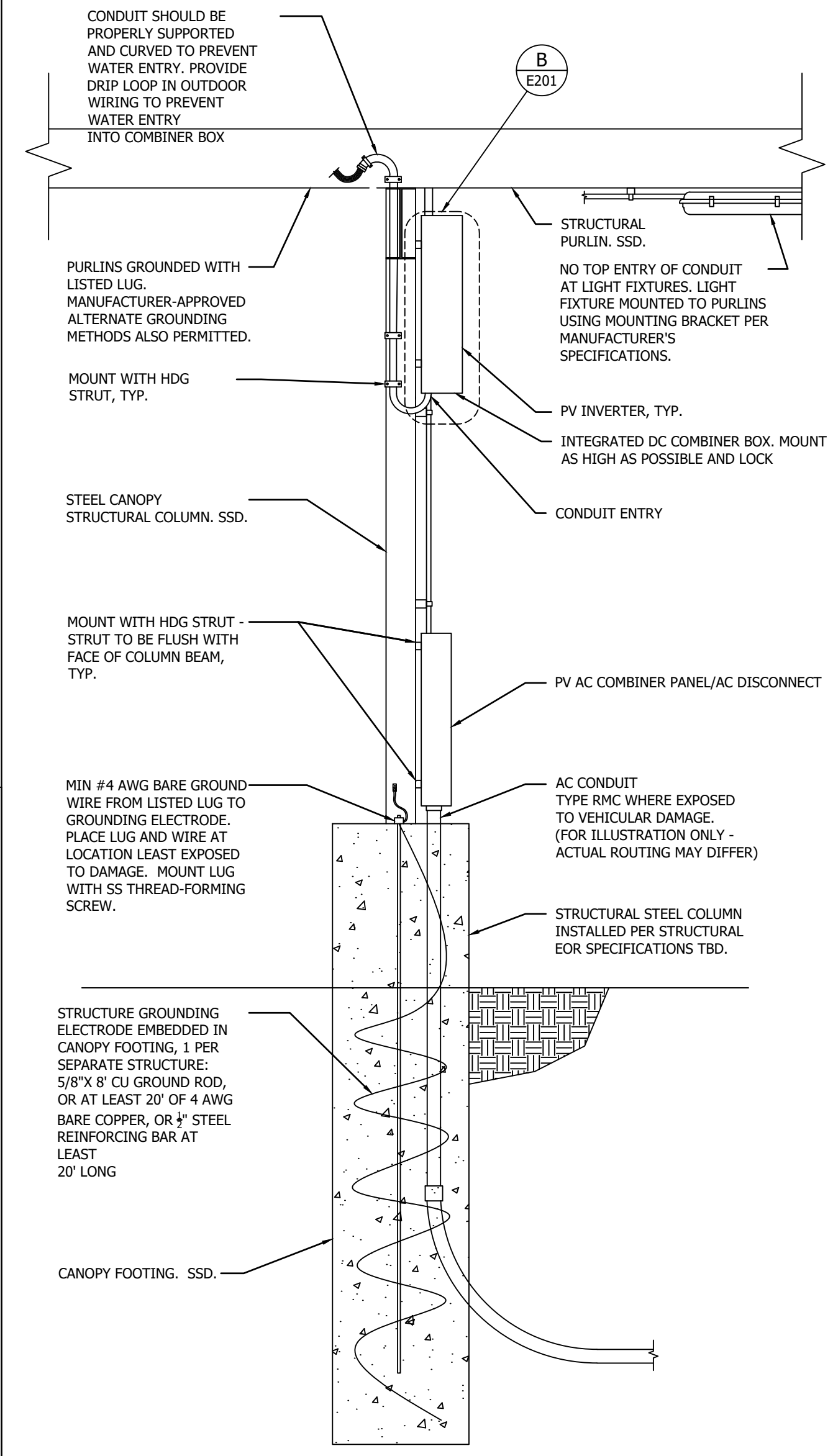
G MODULE ROW GROUNDING DETAIL
70.02 MODULE ROW GROUNDING DETAIL

NTS



H CANOPY COLUMN ELEVATION WIRING
70.01 CANOPY COLUMN ELEVATION WIRING

NTS



I EQUIPMENT MOUNTED ON COLUMN
70.04 CANOPY COLUMN SYSTEM ELEVATION WIRING

NTS

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PROJECT TITLE

YOSEMITE USD - YOSEMITE HS - PV NORTH WEST CAMPUS PHOTOVOLTAIC ELECTRIC SYSTEM
50200 HIGH SCHOOL RD, OAKHURST, CA 93644

60% DESIGN

REV. MARK	DATE	DESCRIPTION

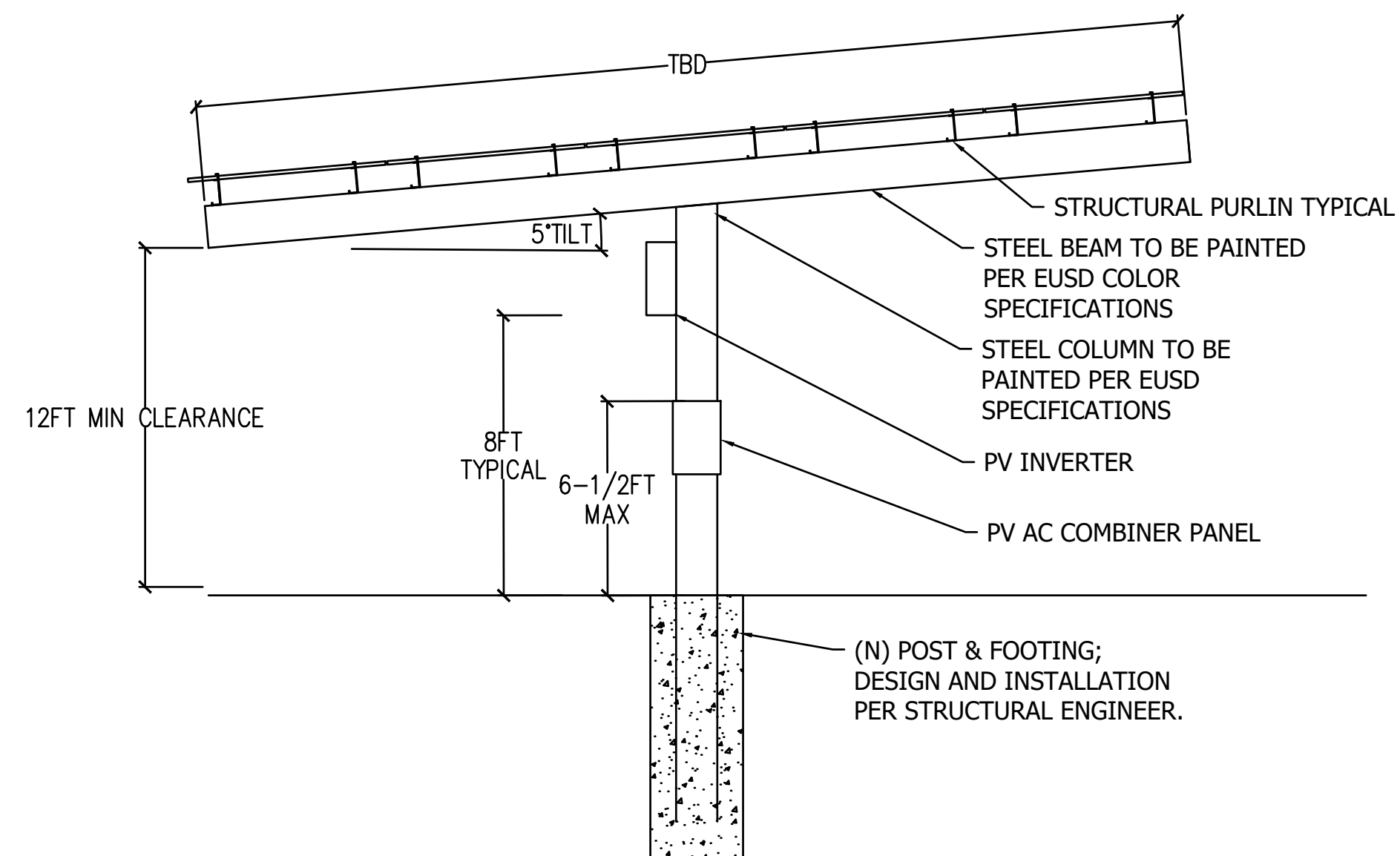
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SHEET TITLE
ELECTRICAL PV DETAILS

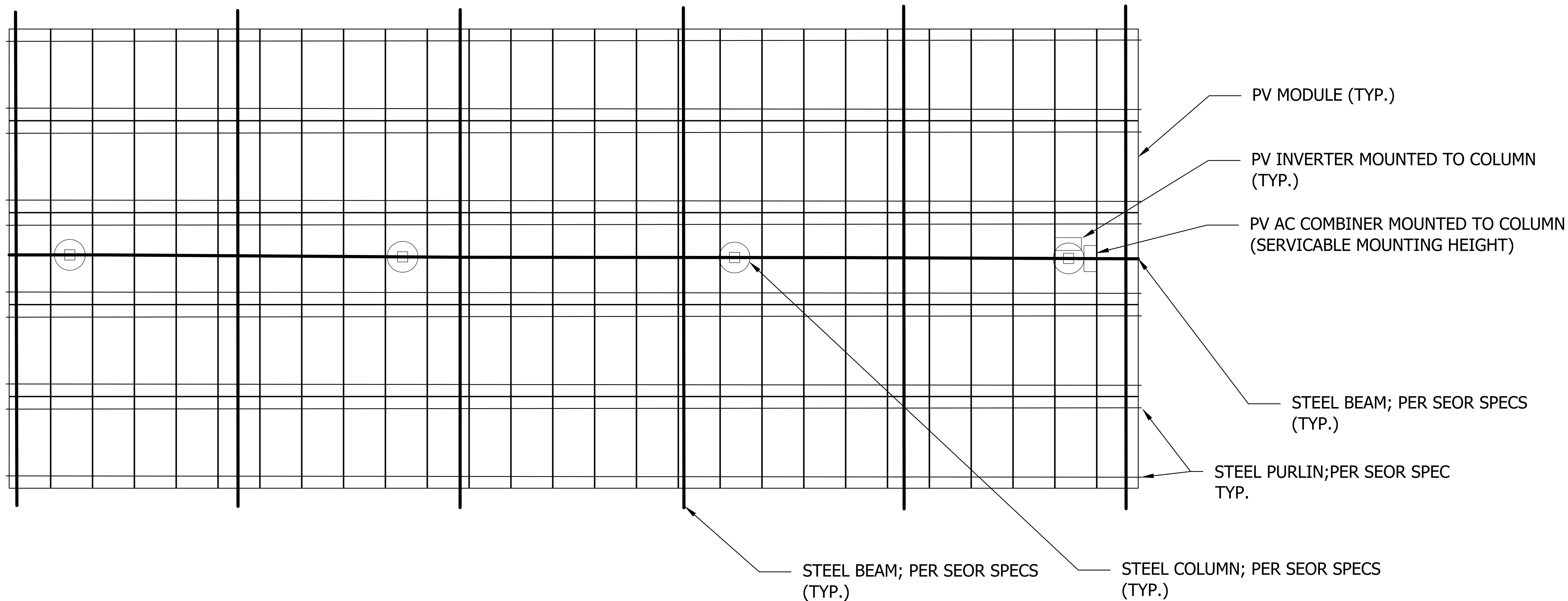
E201

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PV CANOPY DETAIL DRAWINGS ARE FOR DEMONSTRATION PURPOSES, NOT FOR CONSTRUCTION.



(A) PV "T" CANOPY - 6 ROW STEEL STRUCTURE PROFILE VIEW



(D) PV "T" CANOPY 6-ROW EXAMPLE LAYOUT VIEW

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SHEET TITLE
 ELECTRICAL CANOPY
 DETAILS

**PHOTOVOLTAIC ELECTRIC SYSTEM
YOSEMITE USD - YOSEMITE HS -
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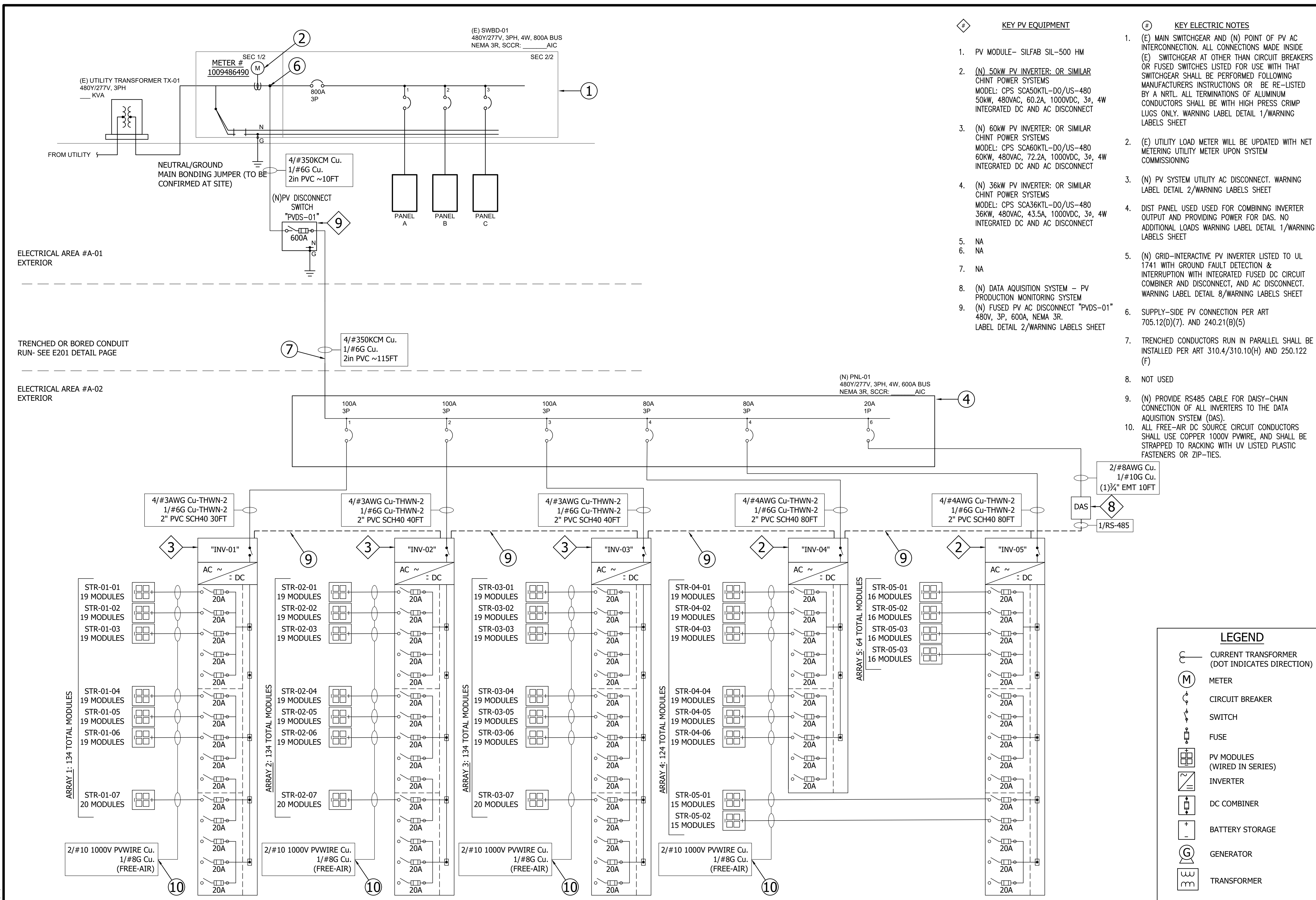
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SHEET TITLE
SINGLE-LINE DIAGRAM, GM
OPTION

- KEY PV EQUIPMENT**
- PV MODULE- SILFAB SIL-500 HM
 - (N) 50kW PV INVERTER: OR SIMILAR CHINT POWER SYSTEMS
MODEL: CPS SCA50KTL-DO/US-480 50kW, 480VAC, 60.2A, 1000VDC, 3ø, 4W INTEGRATED DC AND AC DISCONNECT
 - (N) 60kW PV INVERTER: OR SIMILAR CHINT POWER SYSTEMS
MODEL: CPS SCA60KTL-DO/US-480 60kW, 480VAC, 72.2A, 1000VDC, 3ø, 4W INTEGRATED DC AND AC DISCONNECT
 - (N) 36kW PV INVERTER: OR SIMILAR CHINT POWER SYSTEMS
MODEL: CPS SCA36KTL-DO/US-480 36kW, 480VAC, 43.5A, 1000VDC, 3ø, 4W INTEGRATED DC AND AC DISCONNECT
 - NA
 - NA
 - NA
 - (N) DATA ACQUISITION SYSTEM - PV PRODUCTION MONITORING SYSTEM
 - (N) FUSED PV AC DISCONNECT "PVDS-01" 480V, 3P, 600A, NEMA 3R. LABEL DETAIL 2/WARNING LABELS SHEET
- KEY ELECTRIC NOTES**
- (E) MAIN SWITCHGEAR AND (N) POINT OF PV AC INTERCONNECTION. ALL CONNECTIONS MADE INSIDE (E) SWITCHGEAR AT OTHER THAN CIRCUIT BREAKERS OR FUSED SWITCHES LISTED FOR USE WITH THAT SWITCHGEAR SHALL BE PERFORMED FOLLOWING MANUFACTURERS INSTRUCTIONS OR BE RE-LISTED BY A NRTL. ALL TERMINATIONS OF ALUMINUM CONDUCTORS SHALL BE WITH HIGH PRESS CRIMP LUGS ONLY. WARNING LABEL DETAIL 1/WARNING LABELS SHEET
 - (E) UTILITY LOAD METER WILL BE UPDATED WITH NET METERING UTILITY METER UPON SYSTEM COMMISSIONING
 - (N) PV SYSTEM UTILITY AC DISCONNECT. WARNING LABEL DETAIL 2/WARNING LABELS SHEET
 - DIST PANEL USED FOR COMBINING INVERTER OUTPUT AND PROVIDING POWER FOR DAS. NO ADDITIONAL LOADS WARNING LABEL DETAIL 1/WARNING LABELS SHEET
 - (N) GRID-INTERACTIVE PV INVERTER LISTED TO UL 1741 WITH GROUND FAULT DETECTION & INTERRUPTION WITH INTEGRATED FUSED DC CIRCUIT COMBINER AND DISCONNECT, AND AC DISCONNECT. WARNING LABEL DETAIL 8/WARNING LABELS SHEET
 - SUPPLY-SIDE PV CONNECTION PER ART 705.12(D)(7). AND 240.21(B)(5)
 - TRENCHED CONDUCTORS RUN IN PARALLEL SHALL BE INSTALLED PER ART 310.4/310.10(H) AND 250.122 (F)
 - NOT USED
 - (N) PROVIDE RS485 CABLE FOR DAISY-CHAIN CONNECTION OF ALL INVERTERS TO THE DATA ACQUISITION SYSTEM (DAS). ALL FREE-AIR DC SOURCE CIRCUIT CONDUCTORS SHALL USE COPPER 1000V PVWIRE, AND SHALL BE STRAPPED TO RACKING WITH UV LISTED PLASTIC FASTENERS OR ZIP-TIES.
 - (N) PROVIDE RS485 CABLE FOR DAISY-CHAIN CONNECTION OF ALL INVERTERS TO THE DATA ACQUISITION SYSTEM (DAS). ALL FREE-AIR DC SOURCE CIRCUIT CONDUCTORS SHALL USE COPPER 1000V PVWIRE, AND SHALL BE STRAPPED TO RACKING WITH UV LISTED PLASTIC FASTENERS OR ZIP-TIES.



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SHEET TITLE:
 SINGLE LINE DIAGRAM -
 CANOPY OPT

- KEY PV EQUIPMENT**
- PV MODULE- SILFAB SIL-500 HM
 - (N) .50kW PV INVERTER: OR SIMILAR CHINT POWER SYSTEMS
 MODEL: CPS SCA50KTL-DO/US-480 50KW, 480VAC, 60.2A, 1000VDC, 3Ø, 4W INTEGRATED DC AND AC DISCONNECT
 - (N) 60kW PV INVERTER: OR SIMILAR CHINT POWER SYSTEMS
 MODEL: CPS SCA60KTL-DO/US-480 60KW, 480VAC, 72.2A, 1000VDC, 3Ø, 4W INTEGRATED DC AND AC DISCONNECT
 - (N) 36kW PV INVERTER: OR SIMILAR CHINT POWER SYSTEMS
 MODEL: CPS SCA36KTL-DO/US-480 36KW, 480VAC, 43.5A, 1000VDC, 3Ø, 4W INTEGRATED DC AND AC DISCONNECT
 - NA
 - NA
 - NA
 - (N) DATA ACQUISITION SYSTEM - PV PRODUCTION MONITORING SYSTEM
 - (N) FUSED PV AC DISCONNECT "PVDS-01" 480V, 3P, 600A, NEMA 3R. LABEL DETAIL 2/WARNING LABELS SHEET
- KEY ELECTRIC NOTES**
- (E) MAIN SWITCHGEAR AND (N) POINT OF PV AC INTERCONNECTION. ALL CONNECTIONS MADE INSIDE (E) SWITCHGEAR AT OTHER THAN CIRCUIT BREAKERS OR FUSED SWITCHES LISTED FOR USE WITH THAT SWITCHGEAR SHALL BE PERFORMED FOLLOWING MANUFACTURERS INSTRUCTIONS OR BE RE-LISTED BY A NRTL. ALL TERMINATIONS OF ALUMINUM CONDUCTORS SHALL BE WITH HIGH PRESS CRIMP LUGS ONLY. WARNING LABEL DETAIL 1/WARNING LABELS SHEET
 - (E) UTILITY LOAD METER WILL BE UPDATED WITH NET METERING UTILITY METER UPON SYSTEM COMMISSIONING
 - (N) PV SYSTEM UTILITY AC DISCONNECT. WARNING LABEL DETAIL 2/WARNING LABELS SHEET
 - DIST PANEL USED FOR COMBINING INVERTER OUTPUT AND PROVIDING POWER FOR DAS. NO ADDITIONAL LOADS WARNING LABEL DETAIL 1/WARNING LABELS SHEET
 - (N) GRID-INTERACTIVE PV INVERTER LISTED TO UL 1741 WITH GROUND FAULT DETECTION & INTERRUPTION WITH INTEGRATED FUSED DC CIRCUIT COMBINER AND DISCONNECT, AND AC DISCONNECT. WARNING LABEL DETAIL 8/WARNING LABELS SHEET
 - SUPPLY-SIDE PV CONNECTION PER ART 705.12(D)(7). AND 240.21(B)(5)
 - TRENCHED CONDUCTORS RUN IN PARALLEL SHALL BE INSTALLED PER ART 310.4/310.10(H) AND 250.122 (F)
 - NOT USED
 - (N) PROVIDE RS485 CABLE FOR DAISY-CHAIN CONNECTION OF ALL INVERTERS TO THE DATA ACQUISITION SYSTEM (DAS). ALL FREE-AIR DC SOURCE CIRCUIT CONDUCTORS SHALL USE COPPER 1000V PWWIRE, AND SHALL BE STRAPPED TO RACKING WITH UV LISTED PLASTIC FASTENERS OR ZIP-TIES.
 - NOT USED

