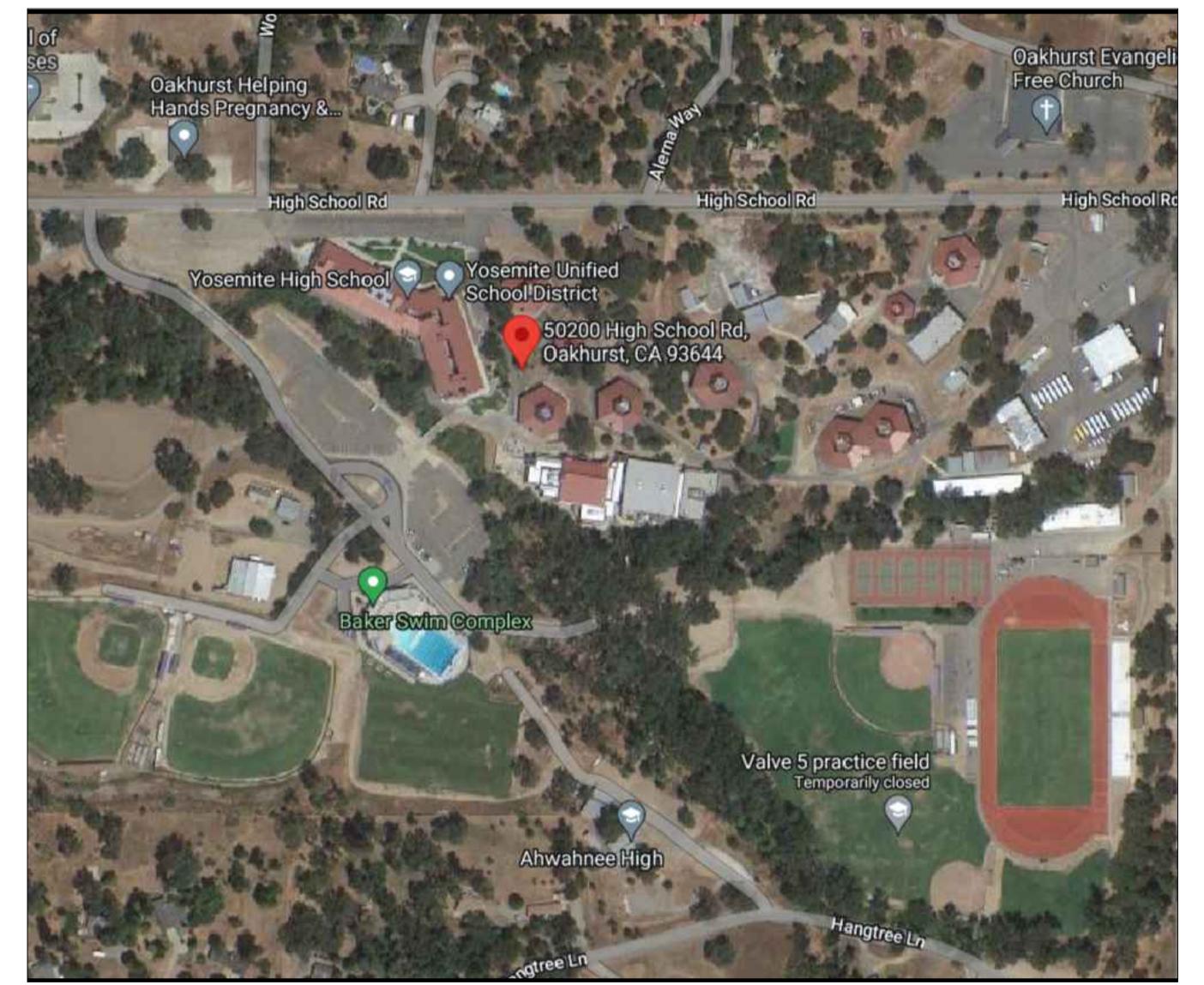
## PHOTOVOLTAIC ELECTRIC SYSTEM

# YOSEMITE HIGH SCHOOL - NORTH WEST CAMPUS 290.0KW 50200 HIGH SCHOOL RD, OAKHURST, CA 93644

### 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.



## PROJECT TEAM

**DESIGN PROFESSIONAL:** 

**ELECTRICAL ENGINEER ON** 

STRUCTURAL ENGINEER ON

**TEDD KELLEY** 

116 INVERNESS DR E SUITE 109 ENGLEWOOD, CO 80112 TEL: (303) 346-8975 TKELLEY@WILLDAN.COM

## **AUTHORITY HAVING JURISDICTION (AHJ)**

DIVISION OF THE STATE ARCHITECT DSA

## **ELECTRIC UTILITY**

## **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)

1. 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)

2. 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)
- 2. ALL CHANGES TO THE APPROVED DRAWINGS SHALL BE MADE BY ADDENDUM OR CHANGE DOCUMENTS APPROVED BY THE DIVISION OF THE STATE ARCHITECT.
- 3. A CERTIFIED DSA INSPECTOR SHALL PROVIDE ONGOING INSPECTION OF ALL WORK ON THE SITE THROUGHOUT CONSTRUCTION ACCORDING TO CBC ADMINISTRATIVE
- CLASS II CERTIFIED DSA INSPECTOR IS REQUIRED FOR THIS PROJECT
- DSA INSPECTOR MUST BE CERTIFIED IN MECHANICAL STRUCTURAL AND ELECTRICAL

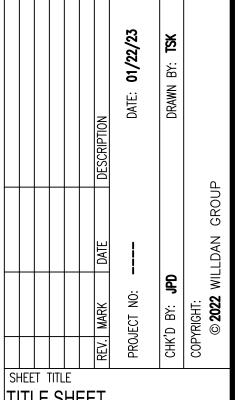
Sheet List Table									
Sheet Number	Sheet Title								
T100	Title Sheet								
A100	General Site Plan								
A200	Array Layout; Ground Mount Option								
A201	Array Layout; Canopy Option								
E001	Electrical Notes								
E100	Electrical Site Plan								
E201	Electrical PV Details							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

PROFESSIONAL SEAL

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PROJECT TITLE

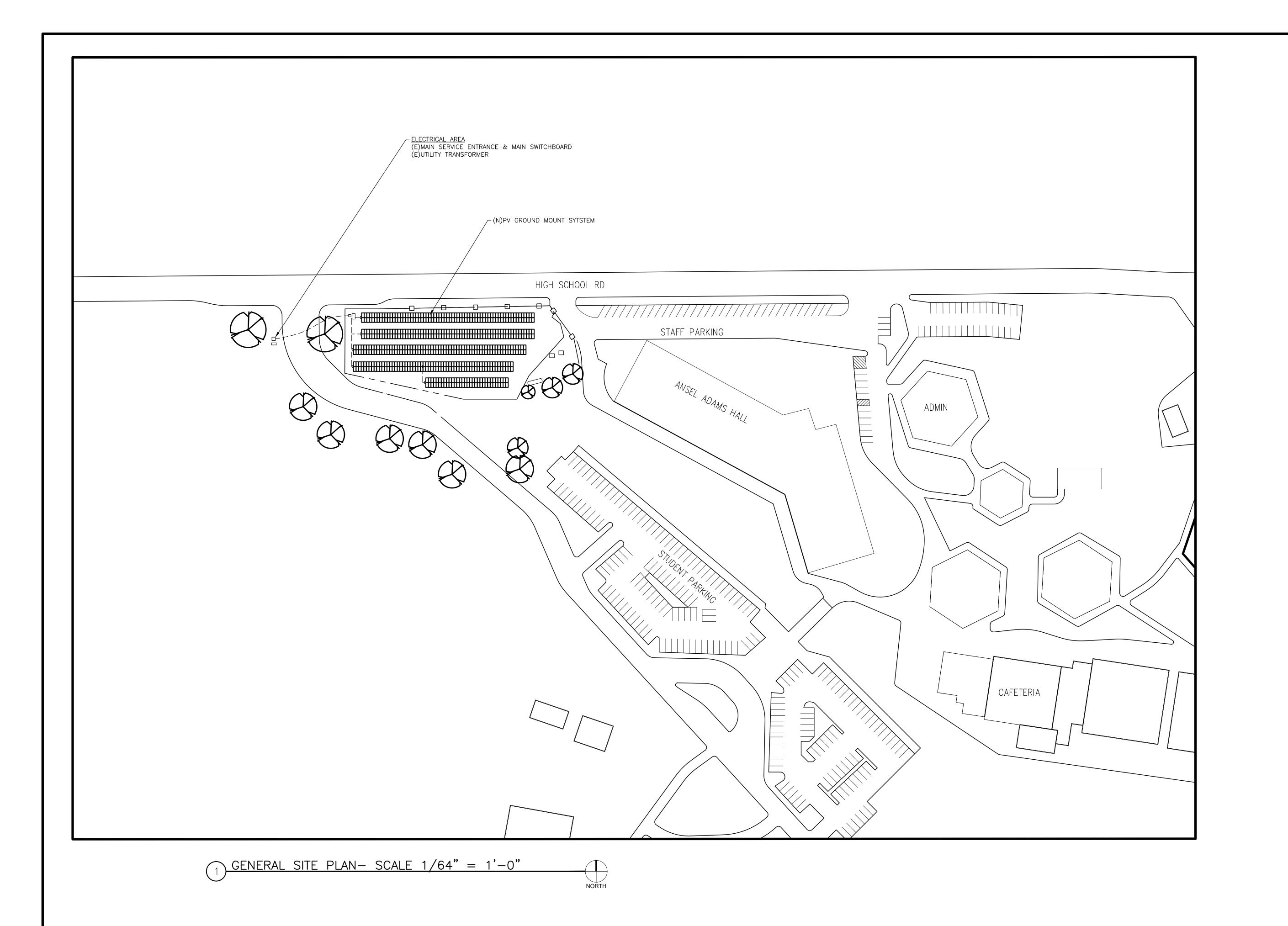
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TITLE SHEET

T100

**AERIAL VIEW** 



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PROJECT TITLE

ELECTRIC SYSTEM
- YOSEMITE HS -

YOSEMITE USD - YOSE
PV NORTH WEST C

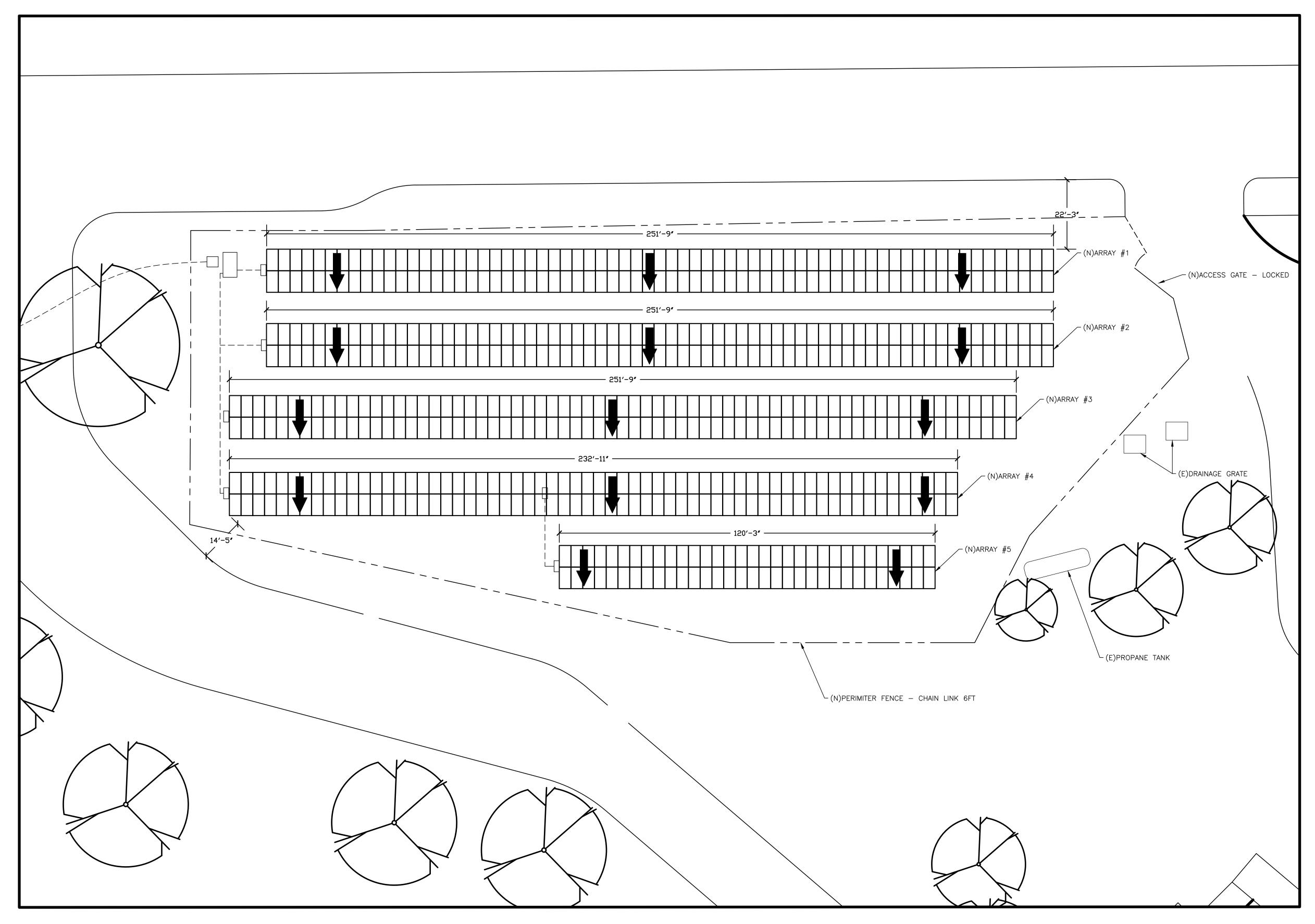
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SHEET TITLE

GENERAL SITE PLAN

A100



PV ARRAY SUMMARY MODULE QTYARRAY TYPETILT DEGAZIMUTH DEGCLEARANCEROW X COLUMN134FIXED TILT GM20°180°NA2 X 67134FIXED TILT GM20°180°NA2 X 67 ARRAY 1 ARRAY 2 2 X 67 FIXED TILT GM
FIXED TILT GM
FIXED TILT GM ARRAY 3 2 X 67 134 ARRAY 4 2 X 62 ARRAY 5 2 X 32

PROFESSIONAL SEALS

PRELIMINARY NOT FOR CONSTRUCTION

PROJECT TITLE

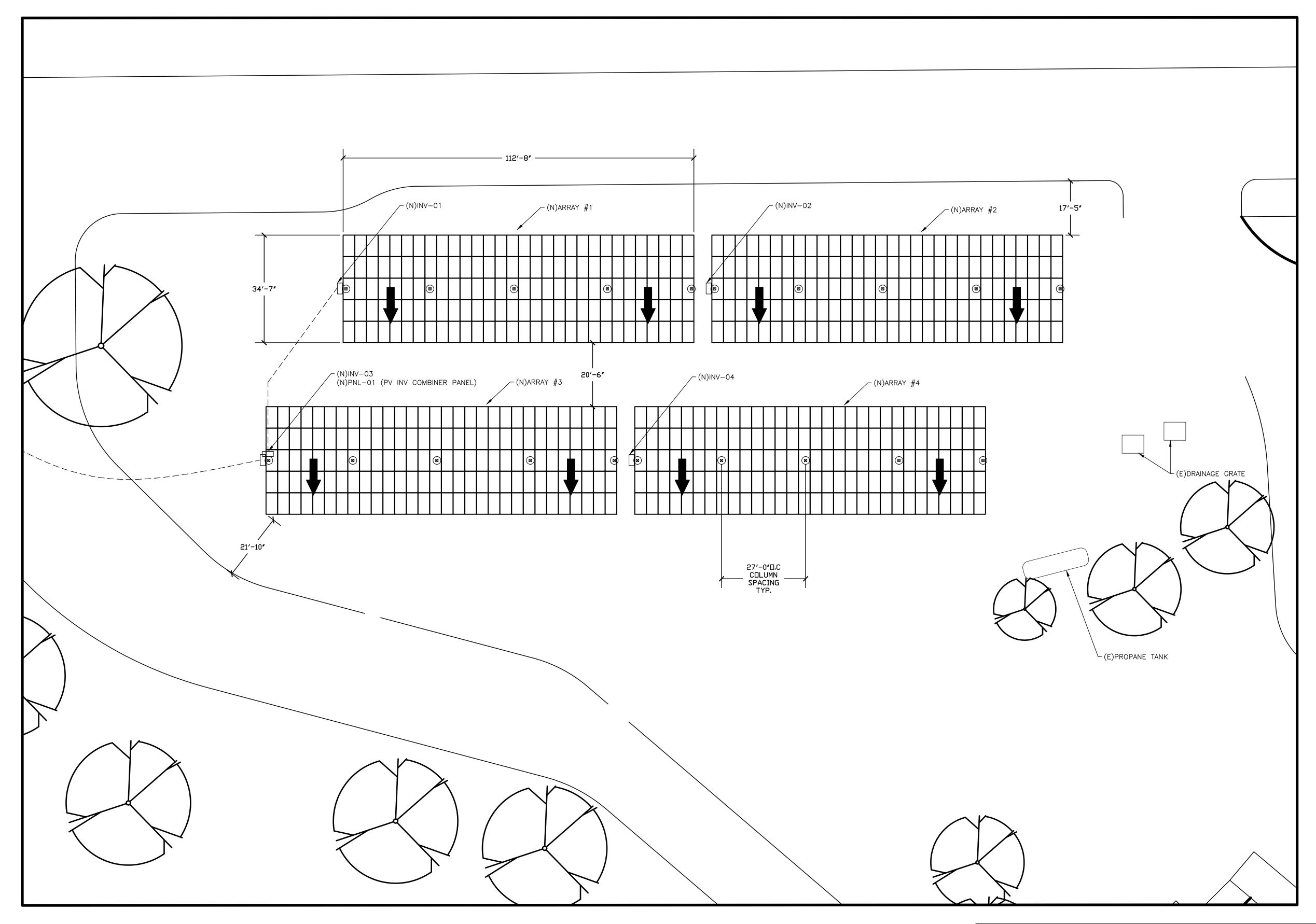
SYSTEM ELECTRIC SEMITE USD PV NORTH W

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			REV. MARK	PROJECT NO:	СНК'О ВҮ: ЈРД	COPYRIGHT:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

SHEET TITLE
ARRAY LAYOUT; GROUND MOUNT OPTION

A200



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					

WILLDAN PROFESSIONAL SEALS

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PROJECT TITLE

**ELECTRIC SYSTEM** OSEMITE USD
PV NORTH W

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SHEET TITLE
ARRAY LAYOUT; CANOPY
OPTION

A201

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

SCALE: 1/16" = 1'-0" (22X34)

#### **ABBREVIATIONS**

**AMPERE** ALTERNATING CURRENT AMERICANS WITH DISABILITIES AMERICAN SOCIETY FOR

**TESTING AND MATERIALS BLDG** BUILDING CLR CLEAR CONC **CONCRETE** DC DIRECT CURRENT DIA **DIAMETER** DIST **DISTANCE** 

EQ **EQUAL EGC EQUIPMENT GROUNDING** 

CONDUCTOR **EXISTING** EACH

**EMT ELECTRICAL METALLIC TUBING GALV GALVANIZED GEC** GROUNDING ELECTRODE

CONDUCTOR **GND** GROUND

HDG HOT DIPPED GALVANIZED **CURRENT CURRENT AT MAX POWER** Imp

**INVS INVERTERS** SHORT CIRCUIT CURRENT Isc kVA KILOVOLT AMPERE kW **KILOWATT** kWh **KILOWATT-HOUR** 

**LBW** LOAD BEARING WALL MAX MAXIMUM MIN MINIMUM

(N) NATIONAL ELECTRIC CODE NIC NOT IN CONTRACT NTS NOT TO SCALE

OC ON CENTER OCP OVERCURRENT PROTECTION **PROPERTY LINES** 

PV PHOTOVOLTAIC **PVC** POLYVINYL CHLORIDE SCH SCHEDULE SQ. IN. **SQUARE INCHES** 

STAINLESS STEEL SSD SEE STRUCTURAL DRAWINGS STC STANDARD TESTING

CONDITIONS TYP TYPICAL

UON **UNLESS OTHERWISE NOTED UPS** UNINTERRUPTIBLE POWER

SUPPLY VERIFY IN FIELD

VOLT **VOLTAGE AT MAX POWER** Voc **VOLTAGE AT OPEN CIRCUIT** 

NEMA 3R, RAINTIGHT

#### **GENERAL NOTES**

ALL WORK SHALL COMPLY WITH ALL STATE AND LOCAL CODES AND ANY OTHER REGULATING AUTHORITIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.

DRAWINGS HAVE BEEN DETAILED IN COMPLIANCE WITH UL LISTING REQUIREMENTS, OSFM SOLAR PHOTOVOLTAIC INSTALLATION REQUIREMENTS, AND BUILDING CODES FOR THE MATERIALS SPECIFIED.

PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FROM WILLDAN GROUP OF ANY DISCREPANCIES. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED AT THE SUBCONTRACTORS SOLE EXPENSE.

SUBCONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO WILLDAN GROUP FOR APPROVAL BEFORE MAKING ANY CHANGES. DEVIATION FROM PLANS BEFORE WRITTEN APPROVAL FROM EOR PLACES LIABILITY ON THE SUBCONTRACTOR.

ALL EQUIPMENT SHALL BE MOUNTED AS SHOWN. WHERE DETAILS ARE NOT PROVIDED, CONTRACTOR SHALL USE STANDARD CONSTRUCTION PRACTICES.

ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND NEW DEVICES AND EQUIPMENT TO MATCH EXISTING FINISHES.

ANY METAL SHAVINGS FROM SITE WORK SHALL BE CLEANED FROM ALL SURFACES WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MY CAUSE RUST, ELECTRICAL SHORT CIRCUITS, OR OTHER DAMAGE.

BEAMS OR PURLINS SHALL NOT BE DRILLED UNLESS AUTHORIZED BY EOR OR SHOWN IN THE DRAWINGS.

APPROVALS FROM BUILDING INSPECTORS SHALL NOT CONSTITUTE AUTHORITY TO DEVIATE FROM THE DRAWINGS.

#### GENERAL CONTRACTOR NOTES

GENERAL CONTRACTOR SHALL FURNISH THE FOLLOWING INSURANCE COVERAGE: PUBLIC LIABILITY, PROPERTY DAMAGE, AUTOMOBILE LIABILITY, WORKMAN'S COMPENSATION, ETC., IN AMOUNTS AS SPECIFIED BY THE LOCAL DEPARTMENT OF BUILDINGS AND THE OWNER. GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, PRIOR TO COMMENCING ANY **WORK** 

PRIOR TO START OF CONSTRUCTION, THE GENERAL CONTRACTOR SHALL VERIFY ALL JOB CONDITIONS, DIMENSIONS AND DETAILS ON SITE AND NOTIFY THE ARCHITECT AND OWNER OF ANY CONDITIONS, DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH THE SATISFACTORY COMPLETION OF THE WORK.

EXERCISE CARE TO AVOID DISRUPTION OF ALL OCCUPIED PREMISES AND THEIR ACCESSIBILITY, EXISTING IMPROVEMENTS AND UTILITIES.

GENERAL CONTRACTOR SHALL PROTECT AND SAFEGUARD THE SAFETY OF THE GENERAL PUBLIC BY ERECTING ALL REQUIRED BARRICADES/CONSTRUCTION FENCES TO PERMIT SAFE PASSAGE DURING CONSTRUCTION.

GENERAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE WORK OF OTHER CONTRACTORS AND THE BUILDING MANAGEMENT.

6. REMOVE ALL DEBRIS AT THE END OF EACH WORK DAY.

#### **ELECTRICAL NOTES**

**GENERAL ELECTRICAL NOTES** ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND SHALL BE UNDERWIRTERS LABORATORIES (UL) LABELED. THE CONTRACTOR SHALL PROCURE ALL NECESSARY CERTIFICATIONS FOR ALL WORK INSTALLED, PAY ALL FEES AND CHARGES CONNECTED THEREWITH AND DELIVERALL CERTIFICATES AND INSPECTION APPROVALS TO THE OWNER THROUGH THE ENGINEER, BEFORE HIS WORK WILL BE FINALLY ACCEPTED.

ALL INVERTERS SHALL BE IEEE 929 COMPLIANT, UL1741 SA LISTED, AND CERTIFIED TO CA RULE 21 INCLUDING SA8-SA18, AND SHALL BE INSPECTED BY LOCAL UTILITY BEFORE COMMISSIONING, TESTING AND OPERATION OF THE SYSTEM.

NEW EQUIPMENT SHALL HAVE AN INTERRUPT RATING ( kAIC) GREATER THAN OR EQUAL TO THE EXISTING EQUIPMENT.

DO NOT DRILL BUSBAR FOR LINE- SIDE INTERCONNECTIONS. USE EXISTING LUGS. OBTAIN MANUFACTURER APPROVAL IF DRILLING IS NECESSARY

#### MANNER OF INSTALLATION

COPPER CABLE TERMINATIONS.

ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED . ALL DETAILS OF THE INSTALLATION SHALL BE MECHANICALLY AND ELECTRICALLY CORRECT.

TORQUE AND MARK ALL RACKING AND MECHANICAL LUGS.

CONDUCTORS AND CONDUCTOR INSTALLATION COMPRESSION LUGS SHALL BE USED ON ALL ALUMINUM CABLE TERMINATIONS. MECHANICAL LUGS MAY ONLY BE USED FOR

IF ALUMINUM MC CABLE IS USED, THHN/THWN-2 INSULATION IS ACCEPTABLE . FOR ALUMINUM CONDUCTORS XHHW-2 SHALL BE

NO-LOX TO BE USED WITH ALL ALUM INUM LUGS. COMPRESSION PINS OR MAC ADAPTERS SHALL BE USED TO TERMINATE ALUMINUM WIRE AT LUGS

PV SYSTEM CONDUCTORS SHALL BE MARKED AND IDENTIFIED PER NEC 690.4(8).

INSTALL WIRE AND CABLE IN ACCORDANCE WITH THE NEC AND AS HEREINAFTER SPECIFIED. USE THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION'S "STANDARD OF INSTALLATION", THE MANUFACTURER'S WRITTEN INSTRUCTIONS, UNLESS SUPERSEDED BY THESE SPECIFICATIONS. IN ALL CASES THE INSTALLATION SHALL BE IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES.

THE USE OF WIRE LUBE IS REQUIRED FOR ALL WIRE PULLS THROUGH CONDUIT RUNS OF 20' OR LONGER, OR WITH BENDS IN 180' OR MORE. WIRE LUBE IS REQUIRED EVEN WHEN USING SELF LUBRICATING CABLES SUCH AS SOUTHWIRE 'SIMPULL'.

STRING WIRING & HOMERUNS SHALL BE SECURED TO UNDERSIDE OF THE RACKING & MODULES USING ZIP TIES OUTDOOR RATED FOR UV. HELLERMAN TYTON PA66UV OR EOUAL, TRANSITION TO RACEWAY OUTSIDE OF ARRAY.

PHASE RELATIONSHIP

CONNECT FEEDERS TO MAINTAIN PHASE RELATIONSHIP THROUGH SYSTEM. PHASE LEGS OF FEEDERS SHALL MATCH BUS OR CABLE ARRANGEMENTS IN EQUIPMENT TO WHICH THE FEEDERS ARE CONNECTED. COLOR CODING SHALL BE AS

208/120 VAC

A PHASE: BLACK, B PHASE: RED, C PHASE: BLUE

#### 277/480 VAC

FOLLOWS:

A PHASE: BROWN, B PHASE: ORANGE, C PHASE: YELLOW

#### 1000 VDC OR 600 VDC

UNGROUNDED POSITIVE CONDUCTOR: RED UNGROUNDED NEGATIVE CONDUCTOR: BLACK

#### AC AND DC SYSTEMS:

GROUNDED CONDUCTOR: WHITE GROUND: GREEN WHERE COLOR CODED CABLE IS NOT USED, TAPE CONDUCTOR WITH OVERLAPPED COLORED TAPE FOR A MINIMUM OF 6" IN ACCESSIBLE LOCATIONS. COLOR CODING MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.

#### **CONDUITS AND RACEWAYS**

DRAWINGS SHOW RACEWAY LOCATIONS DIAGRAMMATICALLY. CONTRACTOR SHALL ADJUST ROUTING TO SUIT FIELD LOCATIONS. ANY CHANGES TO PROPOSED ROUTING SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL FURNISH AND INSTALL ALL FITTINGS AND SPECIAL DEVICES NECESSARY FOR THE

PROPER INSTALLATION, CONNECTION AND OPERATION OF THE SYSTEM. CONDUIT ELBOWS SHALL BE OF THE SAME MAKE, QUALITY AND FINISH AS THE CONDUIT USED. EMT CONDUIT SHALL USE COMPRESSION RAINTIGHT CONNECTORS, FACTORY STAMPED RAINTIGHT WITH COMPONENTS PROPERLY INSTALLED.

PROVIDE 2 PROTECTIVE COATS OF ASPHALTUM COMPOUND FOR ANY GLAVANIZED STEEL CONDUITS DIRECTLY BURIED IN EARTH. PROVIDE EXPANSION FITTINGS WITH BONDING JUMPERS. ONE FOR EVERY 100' OF STRAIGHT METAL CONDUIT RUN. CONDUIT EXPANSION AND DEFLECTION FITTINGS WITH BONDING JUMPERS SHALL BE USED WHENEVER CROSSING BUILDING EXPANSION AND SEISMIC SEPARATION JOINTS LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. ALL EMPTY CONDUITS OVER 10' IN LENGTH SHALL BE PROVIDED WITH SYNTHETIC FIBER ROPE PULL WIRE.

ALL PENETRATIONS SHALL BE SEALED TO MAINTAIN THE EXISTING FIRE RATING.

ALL ROOFTOP CONDUITS SHALL BE MARKED PER LOCAL FIRE CODES

#### ELECTRICAL ENCLOSURES

ALL OUTDOOR ENCLOSURES ( PANELBOARDS, DISCONNECT SWITCHES, JUNCTION BOXES, COMBINER BOXES, ETC.) SHALL BE NEMA 3R, 4, OR 4X. INDOOR ENCLOSURES SHALL BE NEMA 1.

PANELBOARD DOORS SHALL BE QUARTER TURN LATCHES OR EXTERNAL HANDLE WITH INTERNAL LATCHES, NO SETS OF EXTERNAL SCREW DOWN CLAMPS.

CONDUIT TERMINATING IN OUTDOOR ENCLOSURES SHALL UTILIZE RAINTIGHT FITTINGS FOR ALL CABLE ENTRIES.

ARC FLASH HAZARD WARNING LABELS SHALL BE PROVIDED

INVERTER, AC AND DC SWITCH, TRANSFORMER, AND SWITCHGEAR.

HAND HOLES, PULL BOXES, OR CONDU IT BODIES SHALL BE INSTALLED (WHETHER OR NOT SHOWN ON DRAWINGS) WHEN THE RACEWAY HAS MORE THAN 360' OF BENDS, OR AS **NECESSARY TO NOT EXCEED** 

MANUFACTURER'S MAXIMUM CABLE PULLING TENSION. GROUNDING

THE CONTRACTOR SHALL FURNISH AND INSTALL GROUNDING NECESSARY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.

#### **TESTS**

MEGGER ALL: STRING WIRING, COMBINER BOX OUTPUT FEEDERS , AND AC FEEDERS. SUBMIT RESULTS TO OWNER FOR REVIEW. IV CURVE TRACES OF STRINGS SHALL BE GENERATED USING THE SOLMETRIC PV ANALYZER (OR EQUIVALENT DEVICE) AND SUBMITTED TO OWNER FOR APPROVAL

AND MOUNTED ON EVERY COMB INER BOX, TERMINAL BOX,

PROFESSIONAL SEALS

PRELIMINARY NOT FOR CONSTRUCTION

PROJECT TITLE

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SEMITE

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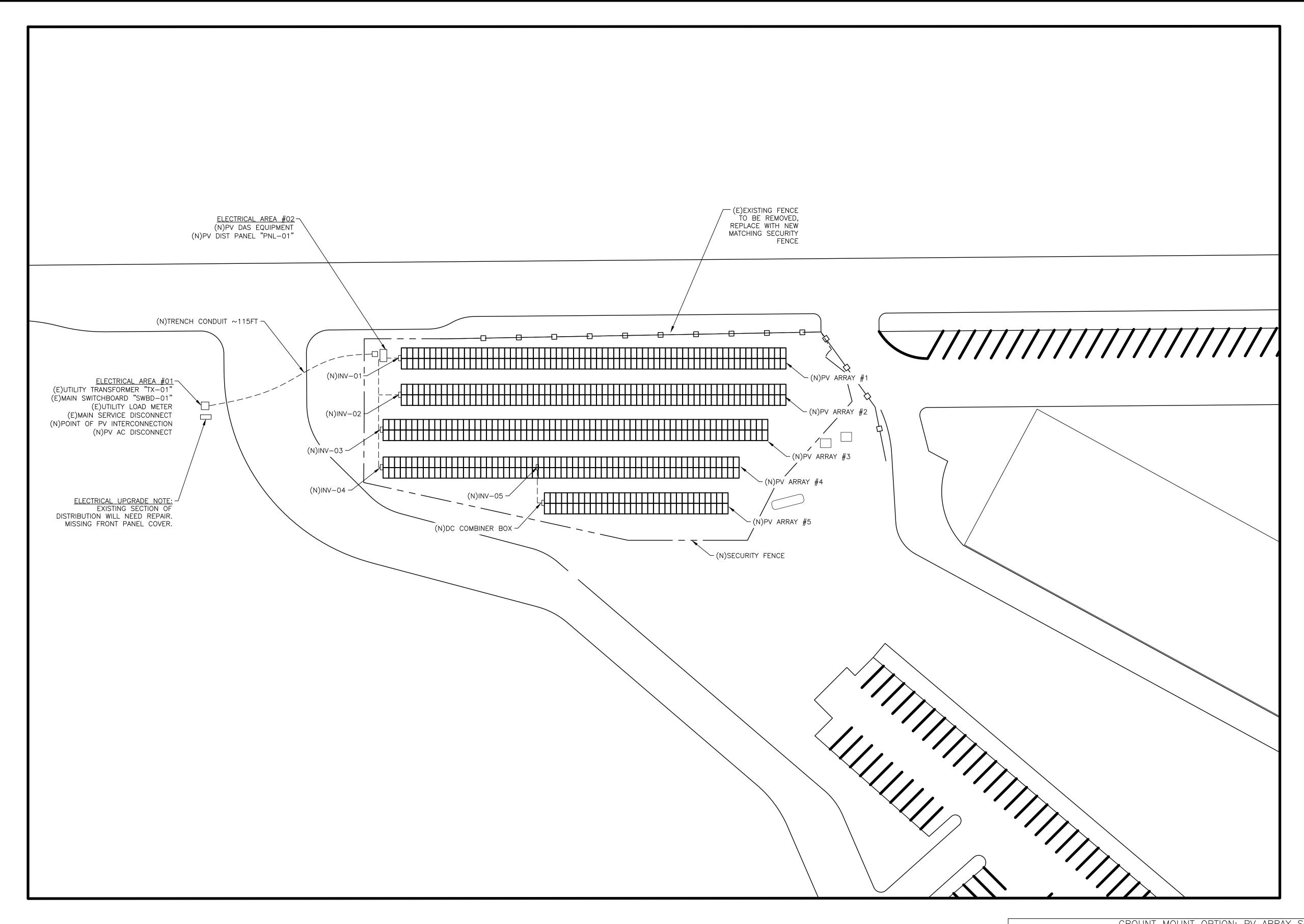
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ELECTRICAL NOTES

E001

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE

NECESSARILY USED ON THE DRAWINGS.



	ELECTRIC	AL SITE PL	AN	$\mathbf{T}$
し '	SCALE: 1/64" = 1'-0" (11X17)	0' 16' 32'		
	SCALE: 1/32" = 1'-0" (22X34)		NO	U ORT

GROUNT MOUNT OPTION; 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					

WILLD/ PROFESSIONAL SEALS

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PROJECT TITLE

SYSTEM

SEMITE AMP ELECTRIC VOLTAIC OR

60% DESIGN

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SHEET TITLE
ELECTRICAL SITE PLAN; GM
OPTION

E100

