CONSTRUCT SOLAR ARRAY BUILDING 1270 FORT LEONARD WOOD, MO

INDEX OF DRAWINGS

G-001 COVER SHEET
E-001 ELECTRICAL LEGEND AND NOTES
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APPLICABLE CODES/DESIGN CONSIDERATIONS

INTERNATIONAL BUILDING CODE (IBC) 2021
THE AMERICAN WITH DISABILITIES ACT (ADAAG) 2010
INTERNATIONAL MECHANICAL CODE (IMC) 2021
INTERNATIONAL PLUMBING CODE (IPC) 2021
ASHRAE 90.1 - 2016 ENERGY STANDARD FOR BUILDINGS
NATIONAL ELECTRIC CODE (NEC) 2020

OWNER: STATE OF MISSOURI

MICHAEL L. PARSON, GOVERNOR

MISSOURI NATIONAL GUARD

OFFICE OF THE ADJUTANT GENERAL FACILITIES MANAGEMENT OFFICE

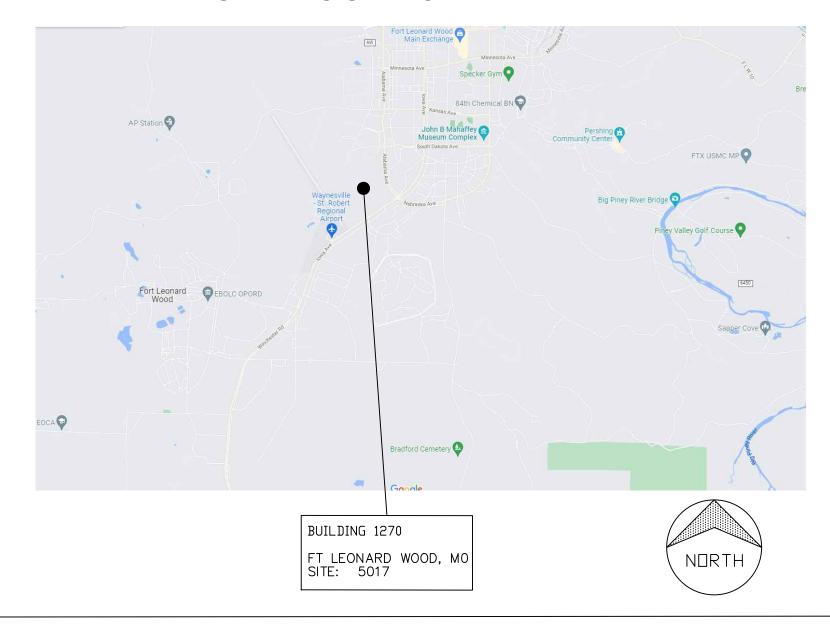
PROJECT

OFFICE OF ADMINISTRATION

MANAGEMENT: DIVISION OF FACILITIES MANAGEMENT

DESIGN AND CONSTRUCTION

SITE LOCATION MAP





CROSSED SWORDS ENGINEERING
1619 NE OAK TREE DRIVE
LEE'S SUMMIT MO 64086
(816) 309-0099
ROBERT7721@AOL.COM
MO CERTIFICATE OF AUTHORITY
#2016003099

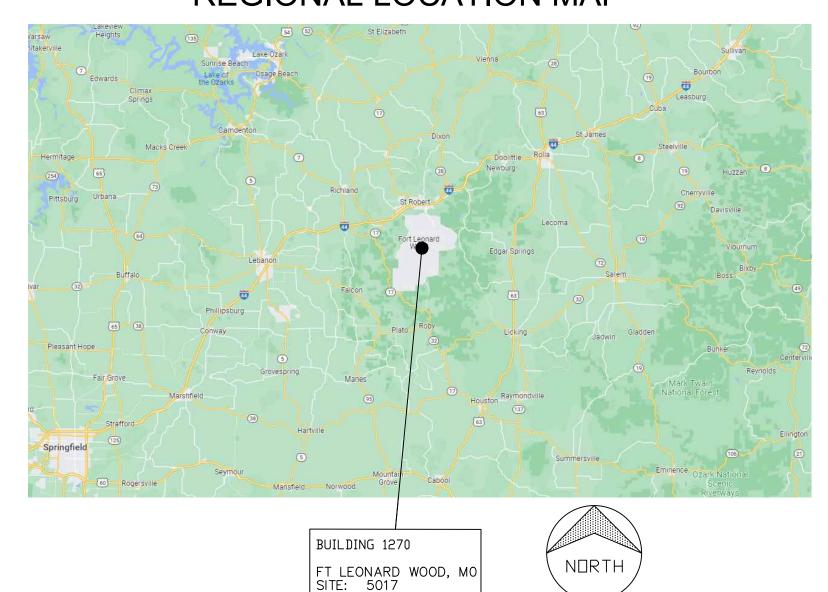
DESIGNER: CROSSED SWORDS ENGINEERING

PROJECT NUMBER: T2229-01

SITE NUMBER: 6306

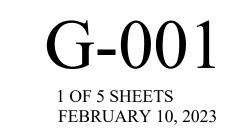
ASSET NUMBER: 8136306006

REGIONAL LOCATION MAP



ISSUED FOR CONSTRUCTION 2/10/2023

SHEET NUMBER:



GENERAL ELECTRICAL NOTES

- 1. PHOTOVOLTAIC (PV) SYSTEMS SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690
- 2. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
- 3. THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION
- 4. LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH [NEC 690.64 (B)]
- 5. ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE
- IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY [NEC 690.4] & [NEC 690.60]

 6. PV MODULES:UL 1703 CERTIFIED, NFPA 70 CLASS C FIRE INVERTER(S):UL 1741 CERTIFIED, IEEE 1547, 929, 519
- COMBINER BOX(S):UL 1703 OR UL 1741 ACCESSORY
- 7. PV STRING HOME RUNS MUST BE LABELED AT ALL TERMINATIONS. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, ACCESSORIES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATION AS INDICATED ON THE DRAWINGS
- 8. SUPPORT CONDUCTORS IN VERTICAL CONDUIT IN ACCORDANCE WITH THE REQUIREMENTS OF NEC 300.19.

GROUNDING NOTES

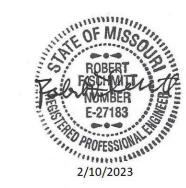
- 1. ONLY ONE CONNECTION TO AC CIRCUITS WILL BE USED FOR SYSTEM GROUNDING (NEC 690.42).
- 2. RACKING AND STRUCTURAL COMPONENTS MUST BE ELECTRICALLY BONDED TOGETHER BY AN ACCEPTABLE MEANS. RACKING SYSTEM SHALL BE LISTED UL2703.
- 3. MODULES SHALL BE GROUNDED WITH EQUIPMENT GROUNDING CONDUCTORS BONDED TO A LOCATION MEETING MANUFACTURER PEOLIDEMENTS WITH A MEANS OF BONDING LISTED FOR THIS PURPOSE
- REQUIREMENTS WITH A MEANS OF BONDING LISTED FOR THIS PURPOSE.
 4. A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC 690.47 AND NEC 250.50 THROUGH NEC 250.166 SHALL BE PROVIDED.
- 5. PV SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NEC 250.21 AND ALL METAL PARTS OR MODULE FRAMES ACCORDING TO NEC 690.43.
- 6. ALL CONDUIT BETWEEN THE UTILITY AC DISCONNECT AND THE POINT OF CONNECTION IN THE MDP SHALL HAVE GROUNDED BUSHINGS AT BOTH ENDS.

SCHEDULE OF ALTERNATES

- 1. BASE BID. PROVIDE AND INSTALL 30 KW OF THE 40 KW SOLAR ARRAY SYSTEM ON THE SOUTH ROOF AREA OF BUILDING 1270. PROVIDE ONLY THE STRUCTURAL FRAMING AND INVERTERS FOR THE 30 KW SYSTEM. THE COMBINER PANEL, CONDUIT, WIRING, AND SYSTEM DISCONNECT SHALL STILL BE SIZED FOR THE FULL 40 KW SYSTEM.
- 2. ALTERNATE NO. 1: PROVIDE AND INSTALL THE ADDITIONAL 10 KW OF SOLAR ARRAYS TO THE ROOF FOR A FULL 40 KW OF SOLAR POWER.

ABBI	REVIATIONS	SYMBOLS LEGEND		SYSTEM NOTES	CONSTRUCTION GENERAL NOTES
A AC AFCI AHJ	AMPERE ALTERNATING CURRENT ARC-FAULT CIRCUIT INTERRUPTER AUTHORITY HAVING JURISDICTION		ELECTRICAL BREAKER ELECTRICAL DISCONNECT SWITCH ELECTRICAL FUSE	SOLAR ARRAY CONSISTS OF PV MODULES, CONNECTED IN SERIES. ARRAYS HAVE BEEN PLACED TO MINIMIZE OR ELIMINATE SHADING IMPACT FROM ADJACENT	ALL ELECTRICAL WORK SHALL BE PERFORMED BY A QUALIFIED LICENSED ELECTRICIAN AND/OR APPRENTICES WORKING UNDER THE DIRECT SUPERVISION OF THE LICENSED CONTRACTOR. ALL WORK CARRIED OUT SHALL COMPLY WITH THE SPECIFICATIONS, APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
AIC ATS AWG CB-#	AMERAGE INTERRUPTION CAPACITY AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE CIRCUIT BREAKER	M	- ELECTRICAL FUSED DISCONNECT SWITCH METER	STRUCTURES AND/OR OBSTRUCTIONS. 3. INVERTERS SHALL BE TRANSFORMERLESS STRING INVERTERS, LOCATED PER PLAN.	3. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED AMONG SITE CONDITIONS, MANUFACTURER RECOMMENDATIONS, OR AUTHORITY HAVING JURISDICTION. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD A WRITTEN "RFI"(REQUEST FOR INFORMATION) PROPOSING AN ALTERNATIVE OR SEEKING CLARIFICATION.
BLDG DC DWG EMT	BUILDING DIRECT CURRENT DRAWING ELECTRICAL METALLIC TUBE		SYSTEM OR EQUIPMENT GROUND CONDUIT DOWN		 4. THE CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. 5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, ACCESSORIES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
GFCI GFP GND GEC	GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT PROTECTION GROUND GROUNDING ELECTRODE CONDUCTOR		CONTINUATION OF CONDUIT PHOTOVOLTAIC (PV) MODULE		6. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
IBC IFC KW MCB	INTERNATIONAL BUILDING CODE INTERNATIONAL FIRE CODE KILOWATT MAIN CIRCUIT BREAKER		DC/AC INVERTER		 THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
MDP MLO MTS N	MAIN DISTRIBUTION PANEL MAIN LUG ONLY MANUAL TRANSFER SWITCH NEUTRAL		POWER TRANSFORMER CONNECTED CONDUCTOR	SITE INFORMATION	9. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION. ALL DEBRIS AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER PER SPECIFICATIONS. 10. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES NOT PART OF THE SCOPE OF WORK AS IDENTIFIED IN THESE PLANS.
NEC NTS OC	NATIONAL ELECTRICAL CODE NOT TO SCALE ON CENTER	APPLICABLE CODES NATIONAL ELECTRIC CODE (NEC), 2020 INTERNATIONAL BUILDING CODE (IBC), 2021 INTERNATIONAL FIRE CODE (IFC), 2021 LACLEDE ELECTRIC COOP UTILITY REQUIREMENTS		POINT OF CONTACT: TERRY ROSENTHAL LACLEDE ELECTRIC COOP TROSENTHAL@LACLEDEELECTIC.COM O: 417-532-3164	11. DUE TO THE FACT THAT PV MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT, CONTRACTOR SHALL DISABLE THE ARRAY DURING INSTALLATION AND SERVICE BY SHORT CIRCUITING, OPEN CIRCUITING, OR COVERING ARRAY WITH AN OPAQUE COVER ACCORDING TO MANUFACTURER'S INSTRUCTION.
OCPD P PH POC	OVERCURRENT PROTECTION DEVICE POLE PHASE POINT OF CONNECTION				MONITORING AND CONTROLS
PV RMC SC TYP UL	PHOTOVOLTAIC RIGID METALLIC CONDUIT SOURCE CIRCUIT TYPICAL UNDERWRITERS LABORATORY				CONTRACTOR SHALL PROVIDE A WIRELESS MONITORING AND CONTROLS NETWORK. THE SOLAR INVERTERS SHALL BE PROVIDED WITH MANUFACTURER STANDARD WIRELESS ACCESS CAPABILITY. CONTRACTOR SHALL PROVIDE CELLULAR HOTSPOT THAT WILL UPLOAD AND ALLOW CONTROL FROM A PASSWORD PROTECTED WEB ACCESS SYSTEM. THE CONTRACTOR SHALL INSTALL THE WEB MONITORING SOFTWARE ON AN EXISTING COMPUTER AS DESIGNATED BY THE STATE PROJECT MANAGER. SEE SPECIFICATION 263100 FOR ADDITIONAL INFORMATION.
V W XFMR	VOLT OR VOLTAGE WATT TRANSFORMER				

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

MISSOURI NATIONAL GUARD OFFICE OF THE ADJUTANT GENERAL FACILITIES MANAGEMENT OFFICE

CONSTRUCT SOLAR ARRAY

READINESS CENTER BUILDING 1270 FT. LEONARD WOOD, MO 65473

PROJECT # T2229-01 SITE # 6306 ASSET # 8136306006

REVISION:
DATE:
REVISION:
DATE:
REVISION:
DATE:
ISSUE DATE: 2/10/2023

CAD DWG FILE:E-001.DWG
DRAWN BY: RFS
CHECKED BY: JC
DESIGNED BY: RFS

SHEET TITLE:

ELECTRICAL LEGEND AND NOTES

SHEET NUMBER:

E-001

GENERAL NOTES

- 1. SEE GENERAL NOTES SHEET E-001 FOR ADDITIONAL INFORMATION
- 2. ALL CONDUIT RUNS ABOVE GRADE.
- 3. SYSTEM INFORMATION. (FOR REFERENCE ONLY)

 SOLAR MODULE WEIGHT: 49.6 LBS.

 SOLAR MODULE DIMENSIONS: 79.06"X39.45"X1.57"
- 4. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) 2020 AND UTILITY STANDARDS.

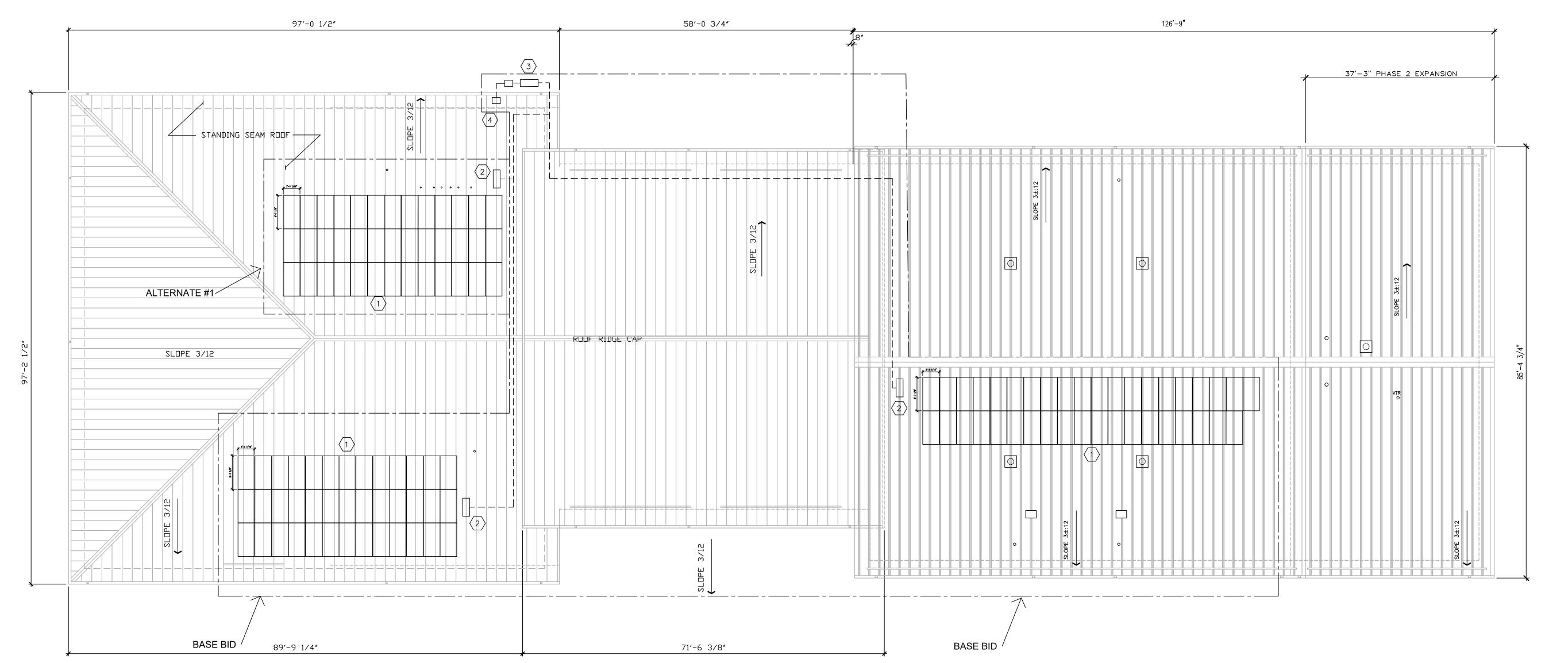
PLAN NOTES

- 1 INSTALL ROOF MOUNTED SOLAR ARRAY. SEE SHEET E-601 FOR DETAILED SOLAR MODULE AND EQUIPMENT INFORMATION. ROOF MOUNTS SHALL BE PER DETAILS ON SHEET E-501.
- 2 INSTALL NEW DC TO AC SOLAR INVERTER.
- $\overline{3}$ INSTALL NEW COMBINER BOX.
- CONNECT SOLAR ARRAY AC VIA ROOF MOUNTED WIRE AND CONDUIT TO EXISTING ELECTRICAL PANEL MSB. INSTALL NEW AC DISCONNECT PER UTILITY COMPANY REQUIREMENTS.

SCHEDULE OF ALTERNATES

THE FULL 40 KW SYSTEM.

- 1. BASE BID. PROVIDE AND INSTALL 30 KW OF THE
 40 KW SOLAR ARRAY SYSTEM ON THE SOUTH ROOF
 AREA OF THE BUILDING 1270. PROVIDE ONLY THE
 STRUCTURAL AND INVERTERS FOR THE 30 KW
 SYSTEM. THE COMBINER PANEL, CONDUIT, WIRING
 AND SYSTEM DISCONNECT SHALL BE SIZED FOR
- 2. ALTERNATE NO. 1: PROVIDE AND INSTALL THE ADDITIONAL 10 KW OF SOLAR ARRAYS TO THE ROOF FOR A FULL 40 KW OF SOLAR POWER.











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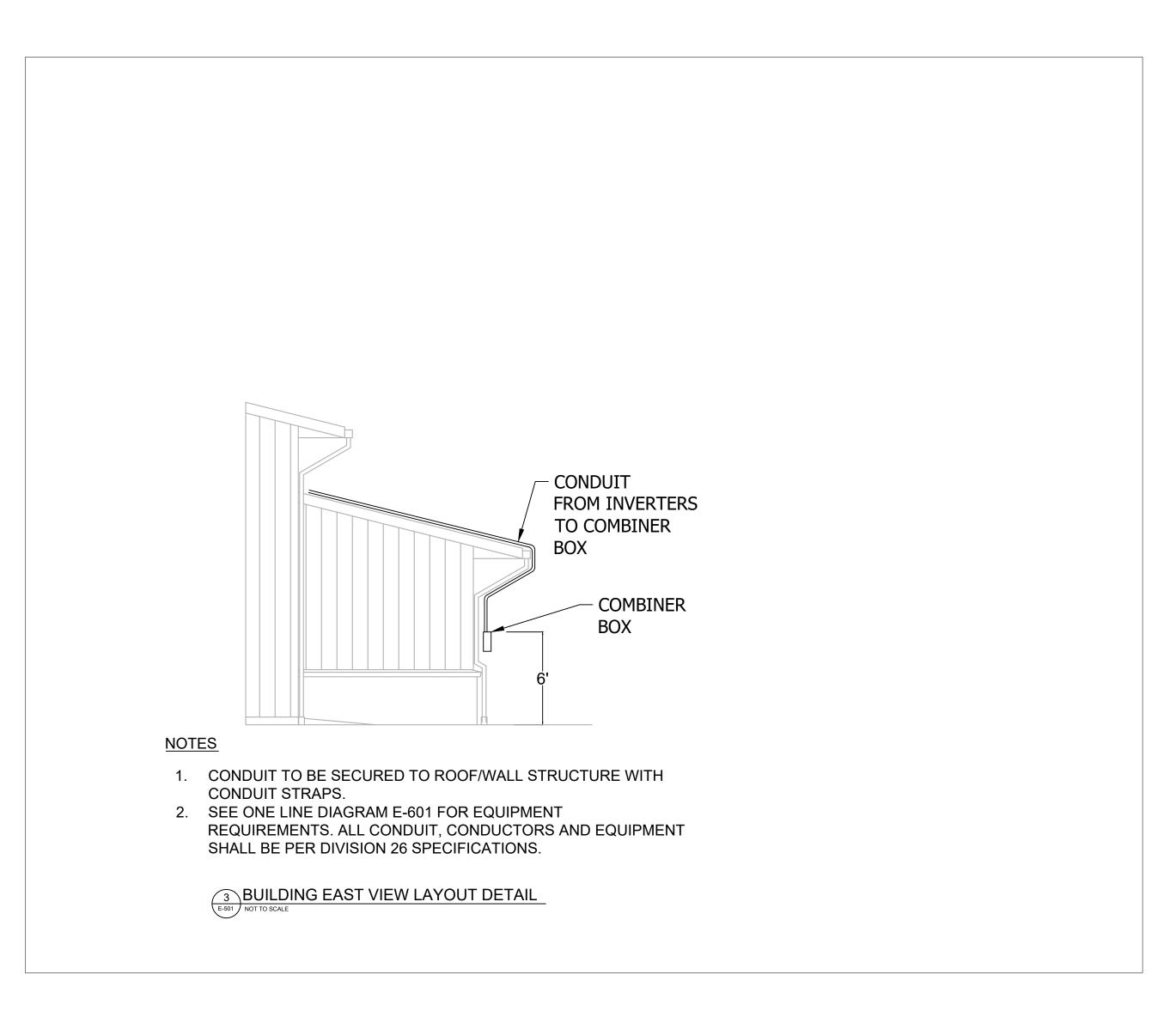
CAD DWG FILE:E-101.DWG
DRAWN BY: RFS
CHECKED BY: JC
DESIGNED BY: RFS

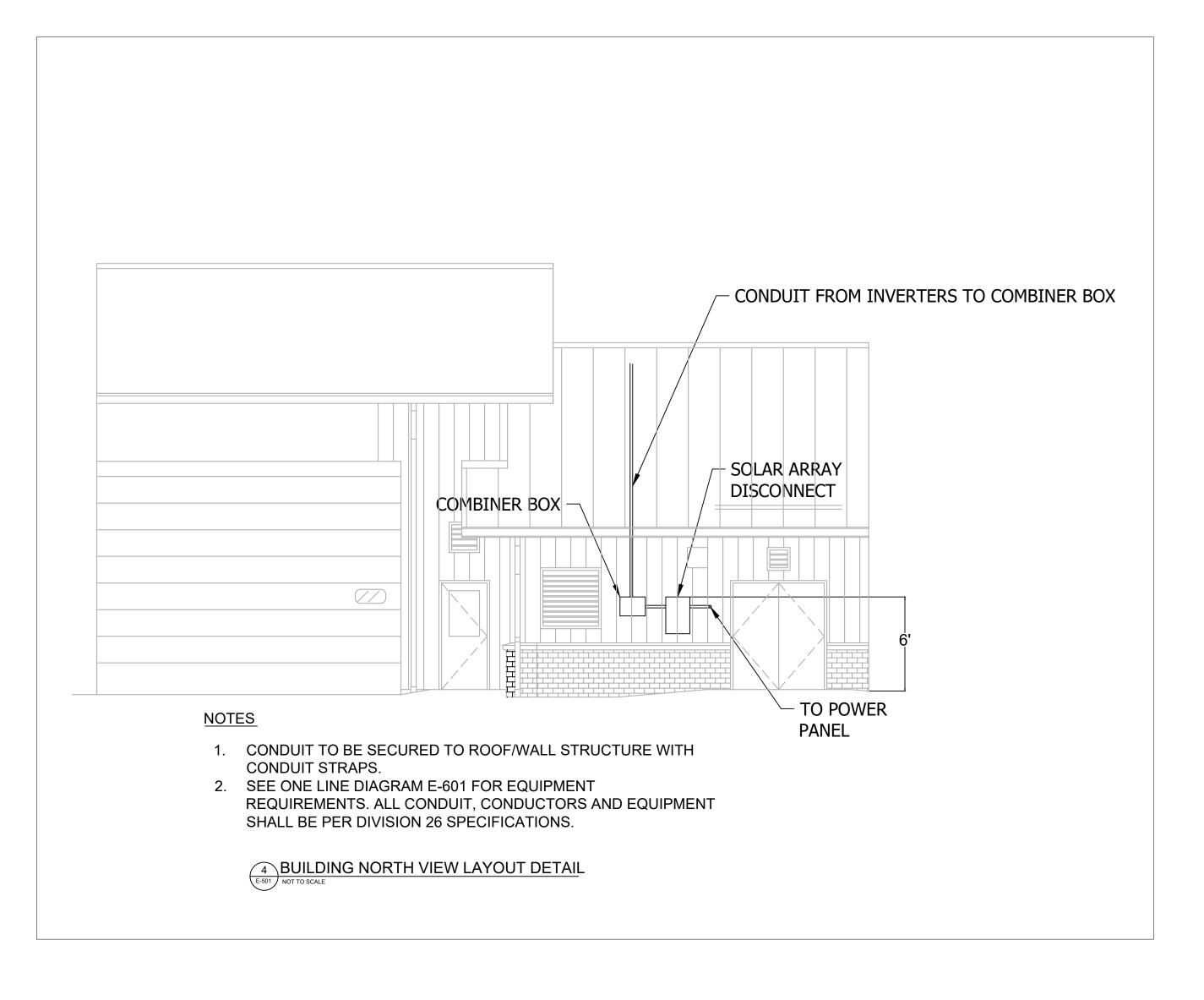
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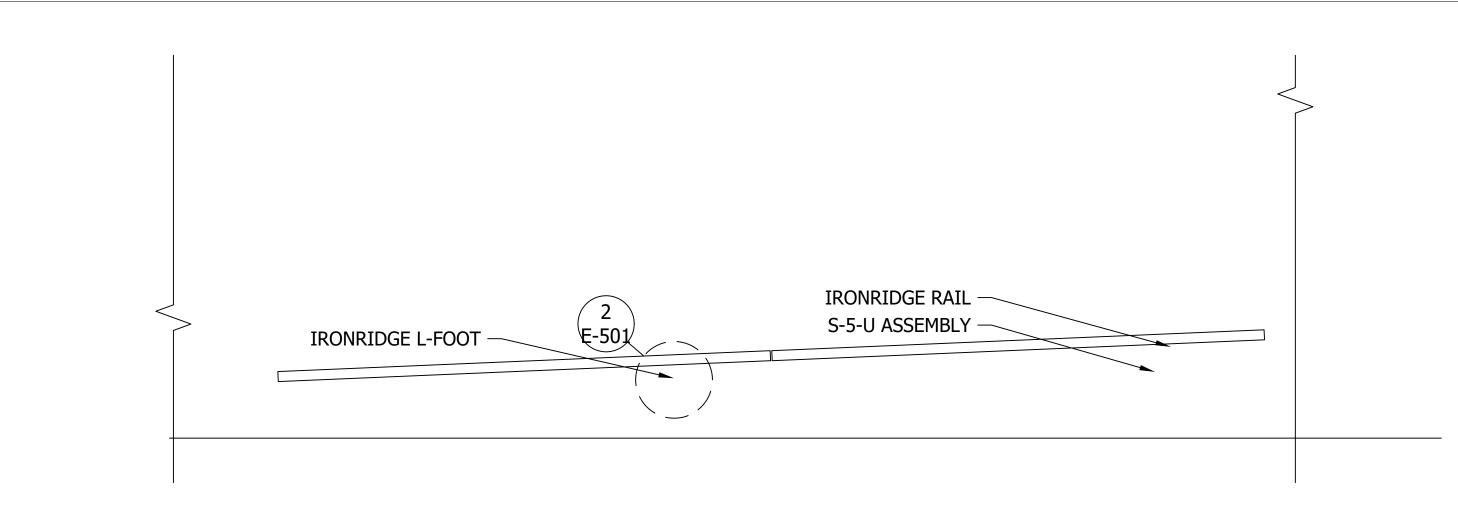
ELECTRICAL PLAN SOLAR ARRAY

SHEET NUMBER:

E-10'





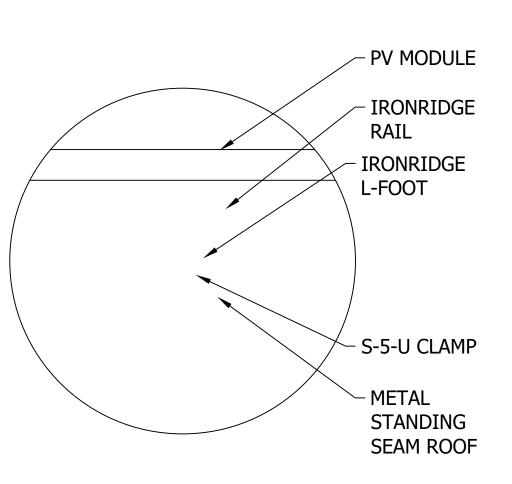


<u>NOTE</u>S

1. SOLAR MODULES SUPPORTS SHALL BE IRONRIDGE RAIL SERIES ROOF MOUNTS OR APPROVED EQUAL BY PROSOLAR, SNAPRACK OR UNIRAC, WITH S5 METAL SEAM ROOF CLIPS.

SOLAR PANEL ROOF SUPPORT DETAIL

OUT TO SCALE



 CONTRACTOR SHALL COORDINATE WITH SOLAR MODULE PROVIDER, RAIL SYSTEM PROVIDER, AND ROOF INSTALLER.

ROOF MOUNTING DETAILS

E-501 NOT TO SCALE

<u>NOTE</u>S

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





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READINESS CENTER BUILDING 1270 FT. LEONARD WOOD, MO 65473

PROJECT # T2229-01 SITE # 6306 ASSET # 8136306006

REVISION:
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ISSUE DATE: 2/10/2023

CAD DWG FILE: E-501.DWG
DRAWN BY: RFS
CHECKED BY: RFS
DESIGNED BY: RFS

SHEET TITLE:
ELECTRICAL
DETAILS

SHEET NUMBER:

E-50

BUILDING 1270 - 40 KW AC OUTPUT SOLAR ARRAY DC TO AC RATIO 1.2

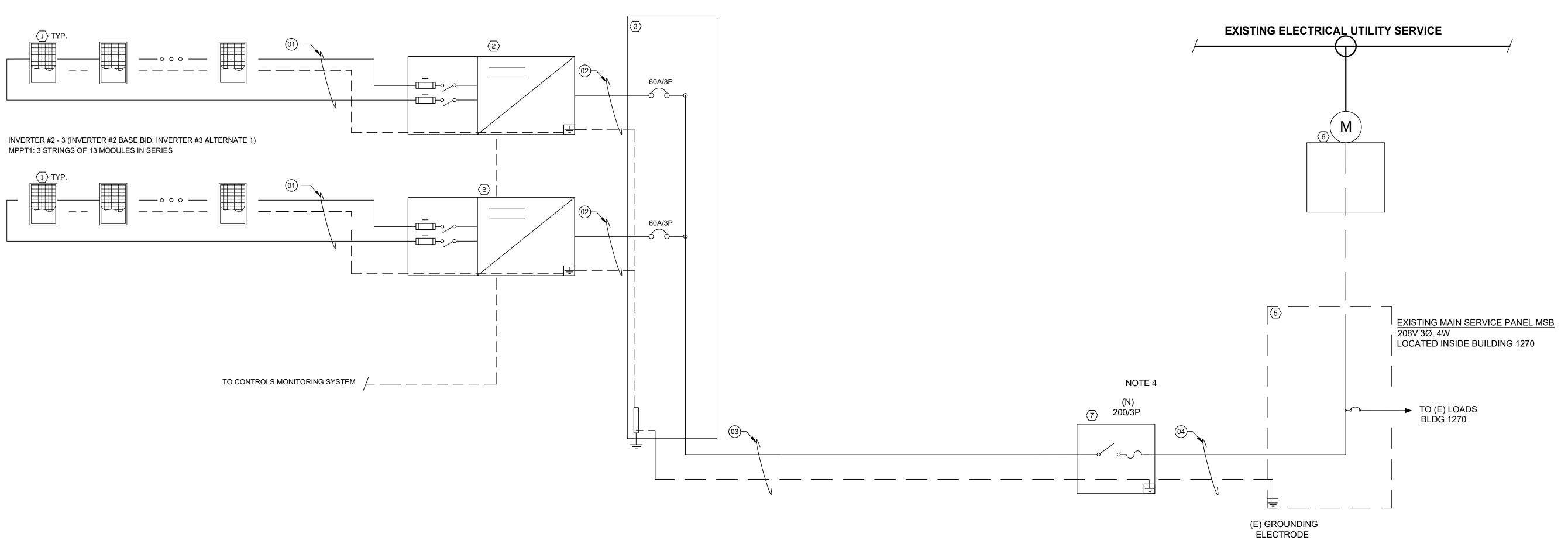
SHEET NOTES

- SOLAR MODULES INCLUDE OUTDOOR RATED QUICK CONNECTS WITH MULTI CONTACT CONNECTORS FOR MODULE INTERCONNECTION. DO NOT REMOVE THE QUICK CONNECTS, OTHERWISE THE MODULE WARRANTY AND THE UL LISTING MAY BE INVALIDATED.
- 2. PV MODULES STRUNG IN SERIES. MODULE AND RACKING GROUNDING ACCOMPLISHED VIA
- CONTINUOUS CU CONDUCTOR.

 3. MODIFY EXISTING ELECTRICAL PANEL AS REQUIRED FOR THE CONNECTION OF INVERTER OUTPUT

INVERTER #1 (BASE BID)

MPPT1: 3 STRINGS OF 13 MODULES IN SERIES



#	PV EQUIPMENT LIST				
ID	QTY	DESCRIPTION			
1	117	JINKO JMK400M-72HL-V, SOLAR MODULE.QTY 78 BASE BID, QTY 39 ALTERNATE 1.			
2	3	15.0 kW STRING INVERTER. 2 MPPT WITH 6 INPUT PAIRS PER MPPT. 208V, 3 PHASE, 60 HZ. FRONIUS SYMO MODEL 15.0-3 208. QTY 2 BASE BIDE QTY 1 ALTERNATE 1.			
3	1	AC COMBINING PANEL, 200A, 3P, 4 W, WITH (3) 60 A CIRCUIT BREAKERS, NEMA 3R			
4	1	SOLAR SYSTEM AC DISCONNECT, 200A, 3 PHASE, NEMA 3R			
5	1	EXISTING MAIN PANEL MSB. 208V, 3PH, WYE.			
6	1	EXISTING METER LOCATED AT BUILDING 1270 TRANSFORMER			
7	1	PV AC DISCONNECT, FUSED 200A, 3 PHASE, NEMA 3R. SQUARE D OR APPROVED EQUAL			

WIRE AND CONDUIT SCHEDULE							
ID	CONDUCTOR	EGC	CONDUIT	CONDUCTORS IN CONDUIT	TEMPERATURE RATING		
01	10 AWG PV WIRE	10 AWG			75C		
02	6 AWG THWN-2	10 AWG	1"	4	75C		
03	1 AWG	6 AWG	1-1/2"	4	75C		
04	1 AWG	6 AWG	1-1/2"	4	75C		

- 1. ALL EXPOSED SOURCE CIRCUIT CONDUCTORS SHALL BE 600V RATED PV-WIRE SUITABLE FOR USE WITH TRANSFORMLESS INVERTERS.
- 2. ALL CONDUIT TO BE PER SPECIFICATIONS UNLESS OTHERWISE REQUIRED BY LOCAL AHJ.
- 3. ALL CONDUIT SIZES ARE BASED ON MINIMUM PER NEC CODE REQUIREMENTS.
- 4. WIRE AMPACITY IS BASED ON NUMBER OF WIRES PER CONDUIT. IF CONDUITS ARE INSTALLED DIFFERENTLY THAN SHOWN, WIRE SIZES MAY BE AFFECTED.

SITE CONE	OITION	S:	
ASHRAE MAX AVG. TEMP:		98.3°F	
ASHRAE EXTREME MIN TEMP		-0.4°F	
PV MODULE	OUTF	TU	
VOC:		49.1 Vdc	
TEMP. COEFFICIENT OF Voc		-0.29 %/°C	5
ISC		10.61 Add	С
VMP		40.16 Vdc	
IMP		9.96 Adc	
INVERTER	DETAI	LS	
RATED POWER OUTPL	JT (kW)		15.0
OUTPUT VOLTAGE	(V)		208
OUTPUT CURRENT	(A)		41.6
SOURCE CIRC	JIT DE	TAILS	
MODULES PER STRING		13	
TEMPERATURE ADJUSTED	voc	714.9	
SHORT CIRCUIT CURREN	_	40	9.1

SCHEDULE OF ALTERNATES

SHALL STILL BE SIZED FOR THE FULL 40 KW SYSTEM.

1. BASE BID. PROVIDE AND INSTALL 30 KW OF THE 40 KW SOLAR ARRAY SYSTEM ON THE SOUTH ROOF AREA OF BUILDING 1270. PROVIDE ONLY

2. ALTERNATE NO. 1: PROVIDE AND INSTALL THE ADDITIONAL 10 KW OF SOLAR ARRAYS TO THE ROOF FOR A FULL 40 KW OF SOLAR POWER.

THE STRUCTURAL FRAMING AND INVERTERS FOR THE 30 KW SYSTEM. THE COMBINER PANEL, CONDUIT, WIRING, AND SYSTEM DISCONNECT

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CAD DWG FILE:E-601.DWG
DRAWN BY: RFS
CHECKED BY: JC
DESIGNED BY: RFS

SHEET TITLE:

ELECTRICAL
ONE LINE DIAGRAM

SHEET NUMBER:

E-60'