

# ROOF MOUNT SOLAR PERMIT PACKAGE OFFICE BUILDING

19.200 KW DC GRID TIED PHOTOVOLTAIC SYSTEM  
1234 ABC BLVD # A, CASTRO VALLEY, CA 94546

## AERIAL VIEW

SCALE : NTS

## VICINITY VIEW

SCALE : NTS

**GENERAL NOTES**

- PER CEC, GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO AT THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, OR IS ONLY METALLIC WATER PIPING, A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8FT GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #10 AWG AND NO GREATER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM.
- EACH MODULE WILL BE GROUNDED USING AN INTEGRATED GROUND SYSTEM.
- EXPOSED NON-CURRENT CARRYING METAL PARTS OF MODULE FRAMES, EQUIPMENTS, AND CONDUCTOR ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH 250.134 OR 250.136(A) REGARDLESS OF VOLTAGE.
- PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PER SECTION 110.26 CEC.
- ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY 2022 CEC.
- HEIGHT OF INTEGRATED AC/DC DISCONNECT SHALL NOT EXCEED 6'-7" PER CEC 240.24
- THE GROUNDING ELECTRODE CONDUCTOR SHALL BE PROTECTED FROM PHYSICAL DAMAGE BETWEEN THE GROUNDING ELECTRODE AND THE PANEL (OR INVERTER) IF SMALLER THAN #6 AWG COPPER WIRE PER CEC 250-64(B). THE GROUNDING ELECTRODE CONDUCTOR WILL BE CONTINUOUS, EXCEPT FOR SPLICES OR JOINTS AT BUSBARS WITHIN LISTED EQUIPMENT PER CEC 250.649(C).
- SYSTEM SHALL COMPLY WITH RAPID SHUTDOWN REQUIREMENTS PER CEC 690.12
- SYSTEM SHALL COMPLY WITH 2022 CALIFORNIA ELECTRICAL CODE-ARTICLE 690.10(E), 408.36(D) REQUIREMENTS FOR UTILITY INTERCONNECTED ELECTRIC POWER PRODUCTION SYSTEMS.
- CEC 690.15 (A) (4) A PLAQUE SHALL BE INSTALLED IN ACCORDANCE WITH 705.10.

PROJECT INFORMATION	
APN	84A-112-14
USE CODE	2022
LOT SIZE	
OCCUPANCY	R1
CONSTRUCTION TYPE	NA
JURISDICTION	ALAMEDA COUNTY
UTILITY COMPANY	PACIFIC GAS & ELECTRIC (PG&E)
UTILITY METER#	1004471448

SYSTEM INFORMATION		
SIZE (KW)	19.200KW DC	
MODULE TYPE	#48	REC SOLAR: REC400AA PURE
INVERTER(S)	#1	SOLECTRIA: PVI - 25TL-208
INVERTER TYPE	STRING	
INTERCONNECTION METHOD	PV BREAKER	



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**CURRENT RENEWABLES ENGINEERING INC.**  
3600 Lime Street, Bldg 2 Riverside, CA 92501  
Email: Projects@creng.solar  
Website: www.creng.co  
PHONE: (951)-215-6354

### CONTRACTOR INFO

### SAMPLE

GOVERNING CODES	
APPLICABLE CODES	2022 CALIFORNIA BUILDING CODE 2022 CALIFORNIA FIRE CODE 2022 CALIFORNIA PLUMBING CODE 2022 CALIFORNIA MECHANICAL CODE 2022 CALIFORNIA ENERGY CODE 2022 CALIFORNIA RESIDENTIAL CODE 2022 CALIFORNIA ADMINISTRATIVE CODE 2022 CALIFORNIA ELECTRICAL CODE

DRAWING INDEX	
PV-01	COVER PAGE
PV-02	SITE PLAN
PV-03	ROOF PLAN
PV-04	STRUCTURAL
PV-05	ELECTRICAL 3LD
PV-06	ELECTRICAL SLD
PV-07	BOM
PV-08	SIGNAGE
PV-09	MODULE SPEC
PV-10	INVERTER SPEC
PV-11	OPTIMIZER SPEC
PV-12	RAIL SPEC
PV-13	ATTACHMENT CUT SHEET
PV-14	
PV-15	

STRUCTURAL DESIGN CRITERIA	
WIND SPEED:	96
EXPOSURE CATEGORY	B
RISK CATEGORY	2
GROUND SNOW LOAD	0
ASCE 7 VERSION	16

AHJ	ALAMEDA COUNTY
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UTILITY	PACIFIC GAS & ELECTRIC (PG&E)
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PV SUMMARY				
SYSTEM SIZE (KWDC)	: STC	400	X 48	= 19.200
	: PTC	381	X 48	= 18.288
SYSTEM SIZE (KWAC)	: 25.000	@240		
MODULES	: 48	REC SOLAR REC400AA PURE		
INVERTER	: 1	SOLECTRIA PVI - 25 TL-208		

Rev	Description	Date
0	INITIAL DESIGN	9/23/2025
A		
B		

PROJECT #	NA
DATE DRAWN	9/23/2025
DRAWN BY	E.R
SHEET #	PV-1.0

TITLE  
**COVER PAGE**

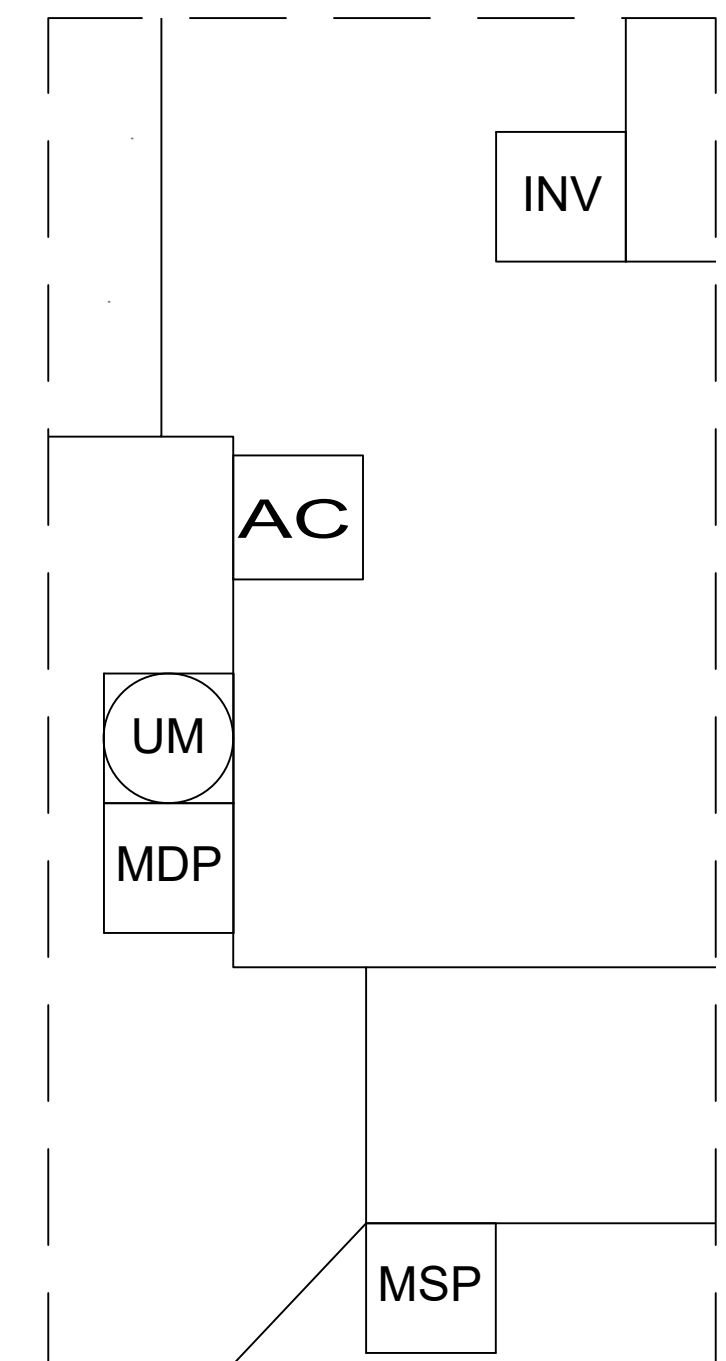
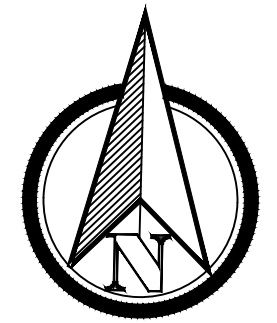
- NOTES:**
- CONDUIT SHALL BE PAINTED TO MATCH EXISTING SURFACE.
  - CRC R331.4.1. : ROOF ACCESS IS NOT LOCATED IN AREAS THAT REQUIRE PLACEMENT OF GROUND LADDERS OVER EXTERIOR WALL OPENINGS.
  - CEC 110.26: 3' WORKING CLEARANCE IN FRONT OF EQUIPMENT.
  - NO CONNECTORS OR SPLICES TO BE USED FOR WIRING TRANSITIONS UNLESS ENCLOSED WITHIN A LISTED WP JUNCTION BOX. ( I.E. MODULE -TO-MODULE CABLING TO PV WIRE/THWN-2)
  - ELECTRICAL EQUIPMENT SHALL BE LISTED BY CITY OF LOS ANGELES RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY DEPARTMENT.

**R324.6.1 PATHWAYS:**  
 NOT LESS THAN TWO MINIMUM 36-INCH WIDE PATHWAYS ON SEPARATE ROOF PLANES, FROM LOWEST ROOF EDGE TO RIDGE, SHALL BE PROVIDED ON ALL BUILDINGS.  
 AT LEAST ONE PATHWAY SHALL BE PROVIDED ON THE STREET OR DRIVEWAY SIDE OF THE ROOF.  
 FOR EACH ROOF PLANE WITH A PHOTOVOLTAIC ARRAY, A MINIMUM 36 INCH-WIDE PATHWAY FROM THE LOWEST ROOF EDGE TO RIDGE SHALL BE PROVIDED ON THE SAME ROOF PLANE OR STRADDLING THE SAME AND ADJACENT ROOF PLANES. PATHWAYS SHALL BE OVER AREAS CAPABLE OF SUPPORTING FIRE FIGHTERS ACCESSING THE ROOF. PATHWAYS SHALL BE LOCATED IN AREAS WITH MINIMAL OBSTRUCTIONS SUCH AS VENT PIPES, CONDUIT, OR MECHANICAL EQUIPMENT.

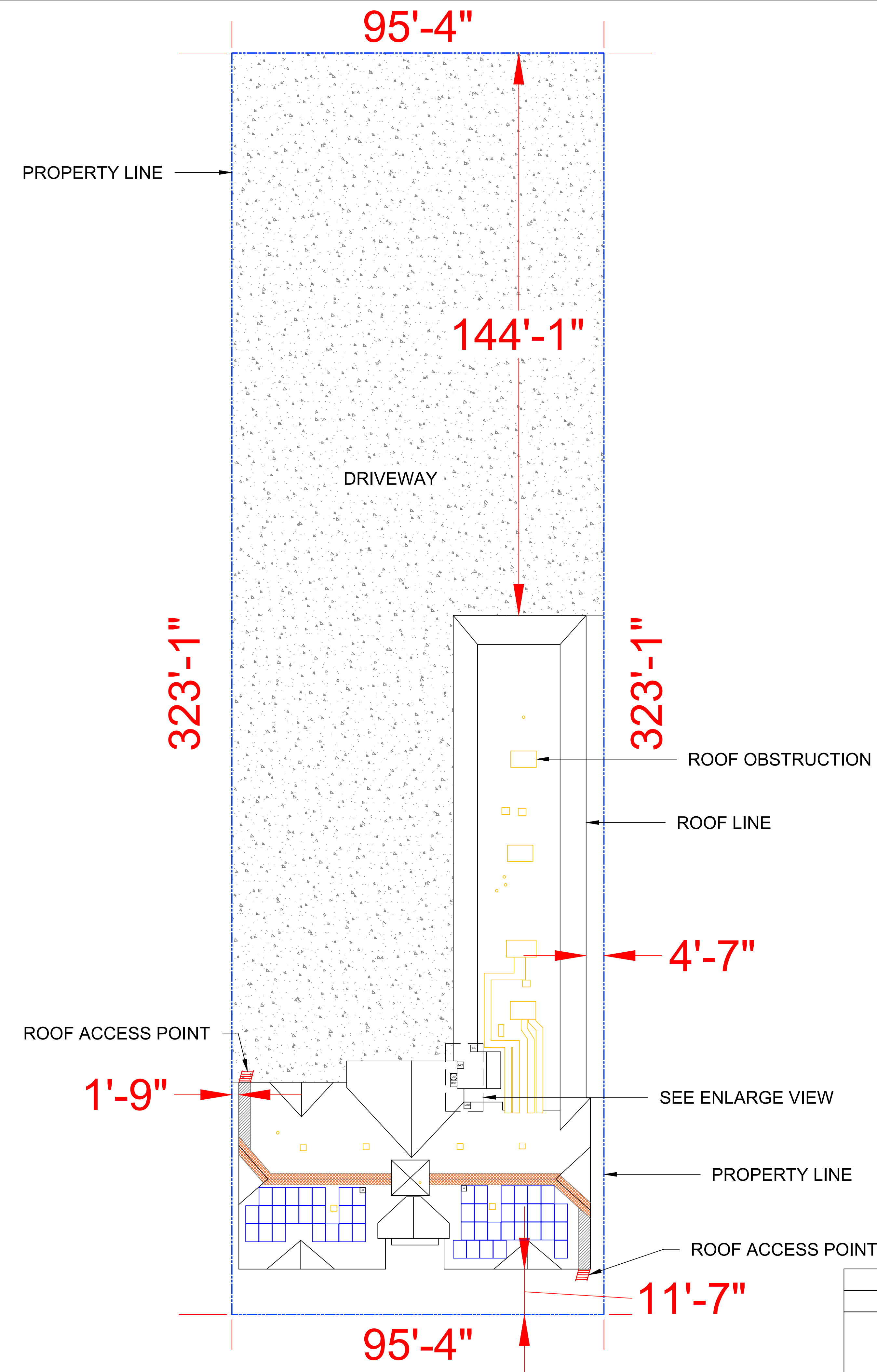
**R324.6.2 SETBACK AT RIDGE:**  
 FOR PHOTOVOLTAIC ARRAYS OCCUPYING NOT MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN AN 18 INCH CLEAR SET BACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE.  
 FOR PHOTOVOLTAIC ARRAYS OCCUPYING MORE THAN 33 PERCENT OF THE PLAN VIEW TOTAL ROOF AREA, NOT LESS THAN A 36-INCH CLEAR SET BACK IS REQUIRED ON BOTH SIDES OF A HORIZONTAL RIDGE.

**R324.6.4 EMERGENCY ESCAPE AND RESCUE OPENING:** PANELS AND MODULES INSTALLED ON DWELLINGS SHALL NOT BE PLACED THE PORTION OF A ROOF THAT IS BELOW AN EMERGENCY ESCAPE AND RESCUE OPENING. A 36-INCH-WIDE PATHWAY SHALL BE PROVIDED TO THE EMERGENCY ESCAPE AND RESCUE OPENING.

**NOTE:**  
 CONDUIT PAINT MATCH TO THE NEREST ADJACENT SURFACE.



**ENLARGED VIEW**



**LEGEND**

- UM UTILITY METER
- MDP MAIN DISTRIBUTION PANEL
- MSP MAIN SERVICE PANEL
- INV INVERTER
- JB JUNCTION BOX
- AC AC DISCONNECT
- MODULE
- ROOF OBSTRUCTIONS
- 36" ACCESS PATHWAYS
- 18" ACCESS PATHWAYS
- ROOF ACCESS POINT

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 Website: www.creng.co  
 PHONE: (951)-215-6354

**CONTRACTOR INFO**

**SAMPLE**

AHJ	ALAMEDA COUNTY
UTILITY	PACIFIC GAS & ELECTRIC (PG&E)

PV SUMMARY				
SYSTEM SIZE (KWDC)	STC	400	X 48	= 19.200
	PTC	381	X 48	= 18.288
SYSTEM SIZE (KWAC)		25.000	@240	
MODULES		48	REC SOLAR REC400AA PURE	
INVERTER		1	SOLECTRIA PVI - 25 TL-208	

Rev	Description	Date
0	INITIAL DESIGN	9/23/2025
A		
B		

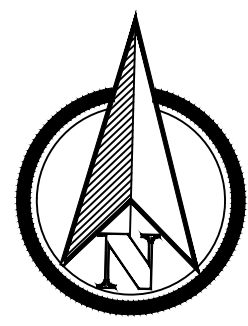
ENGINEERING STAMP OF APPROVAL	
STRUCTURAL	ELECTRICAL

PROJECT #	NA
DATE DRAWN	9/23/2025
DRAWN BY	E.R
SHEET #	PV-2.0

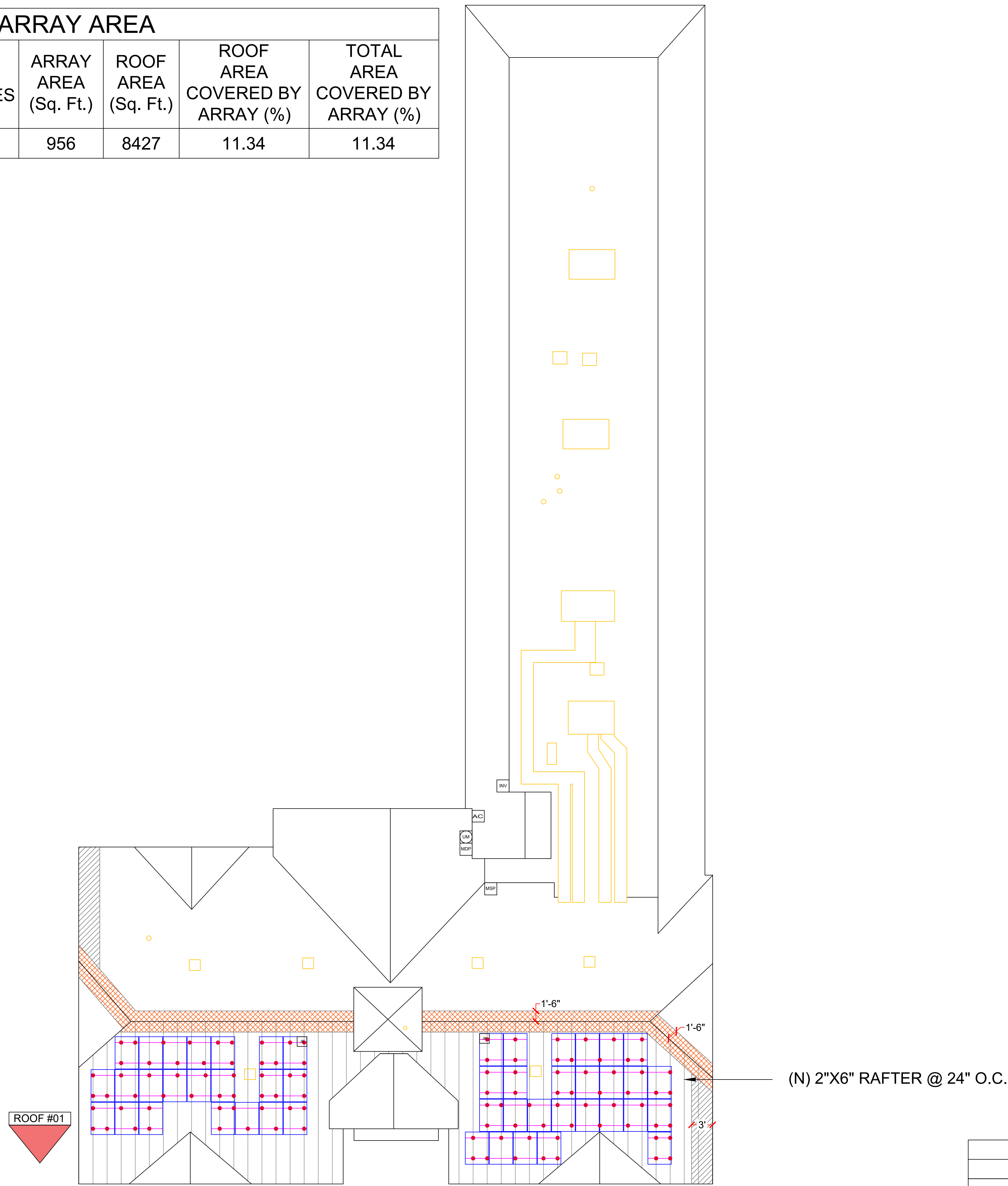
TITLE  
**SITE PLAN**

**1 SITE PLAN**  
 SCALE: 1/16" = 1'-0"

**ABC BLVD # A**



ARRAY AREA							
ROOF	ROOF TILT	AZIMUTH	# OF MODULES	ARRAY AREA (Sq. Ft.)	ROOF AREA (Sq. Ft.)	ROOF AREA COVERED BY ARRAY (%)	TOTAL AREA COVERED BY ARRAY (%)
#1	40	180	48	956	8427	11.34	11.34



## LEGEND

- UM UTILITY METER
- MDP MAIN DISTRIBUTION PANEL
- MSP MAIN SERVICE PANEL
- INV INVERTER
- JB JUNCTION BOX
- AC AC DISCONNECT
- MODULE
- ROOF OBSTRUCTIONS
- 36" ACCESS PATHWAYS
- 18" ACCESS PATHWAYS

## CIRCUITS

- CIRCUIT #01  
#16 MODULES
- CIRCUIT #02  
#16 MODULES
- CIRCUIT #03  
#16 MODULES

## ROOF SECTIONS

- ▼ ROOF #01  
MODULE - 48  
SLOPE - 40°  
AZIMUTH - 180°  
MATERIAL - COMP SHINGLE  
RAFTER SIZE & SPACING  
2"X6" & 24"

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UTILITY	PACIFIC GAS & ELECTRIC (PG&E)

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ENGINEERING STAMP OF APPROVAL	
STRUCTURAL	ELECTRICAL

PROJECT #	NA
DATE DRAWN	9/23/2025
DRAWN BY	E.R
SHEET #	PV-3.0

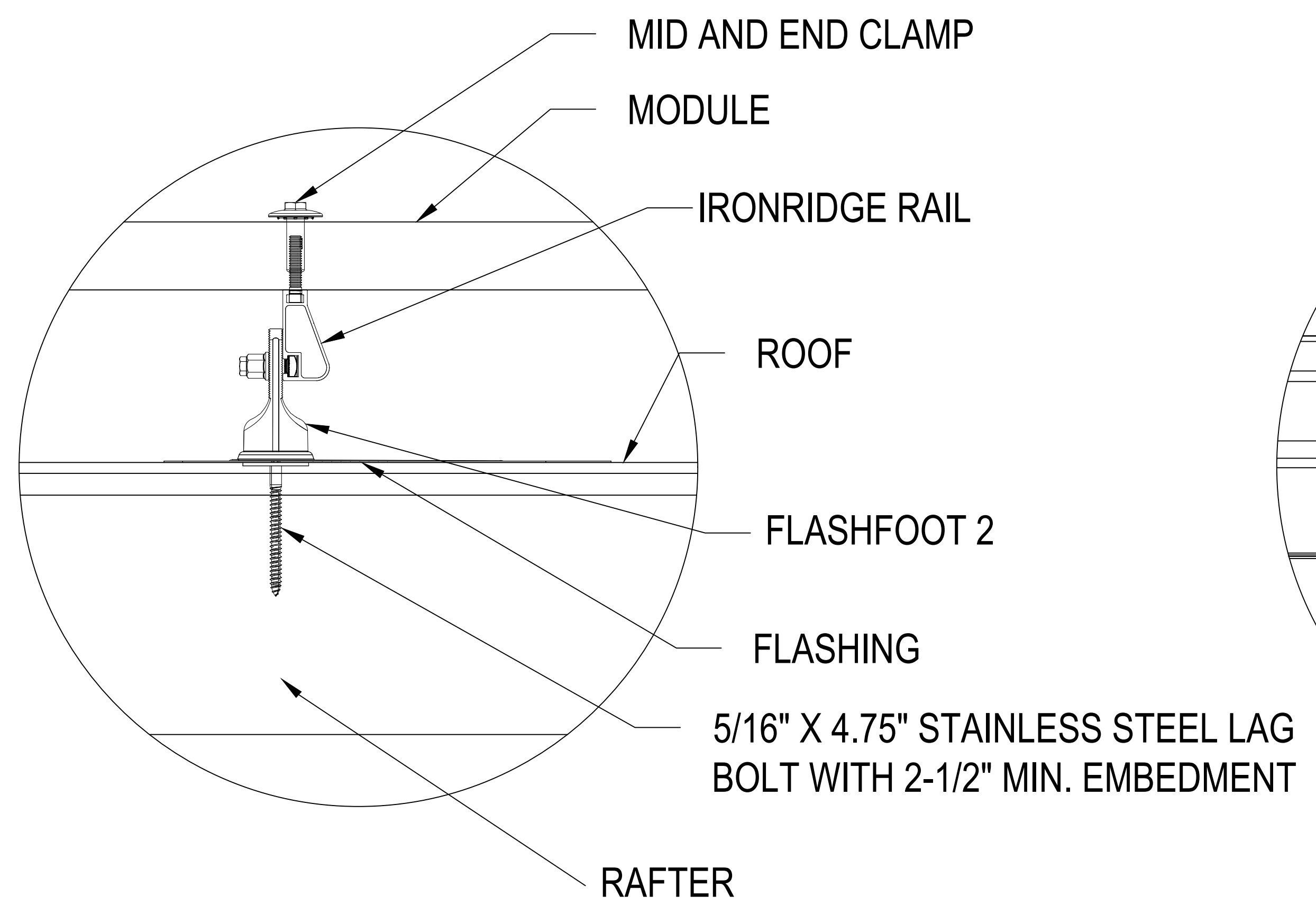
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**ROOF PLAN**

## 2 ROOF PLAN

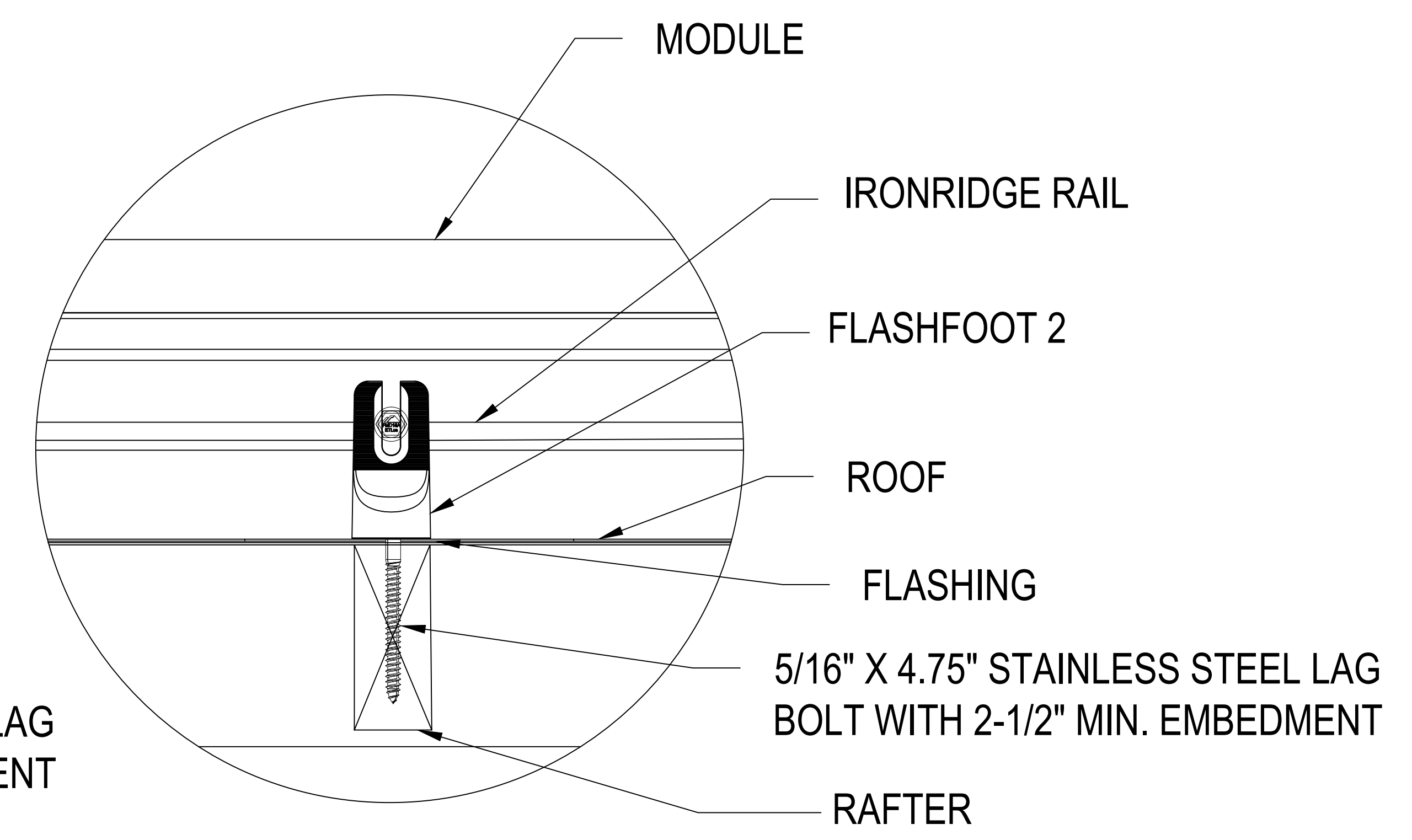
SCALE: 1/8" = 1'-0"

ABC BLVD # A

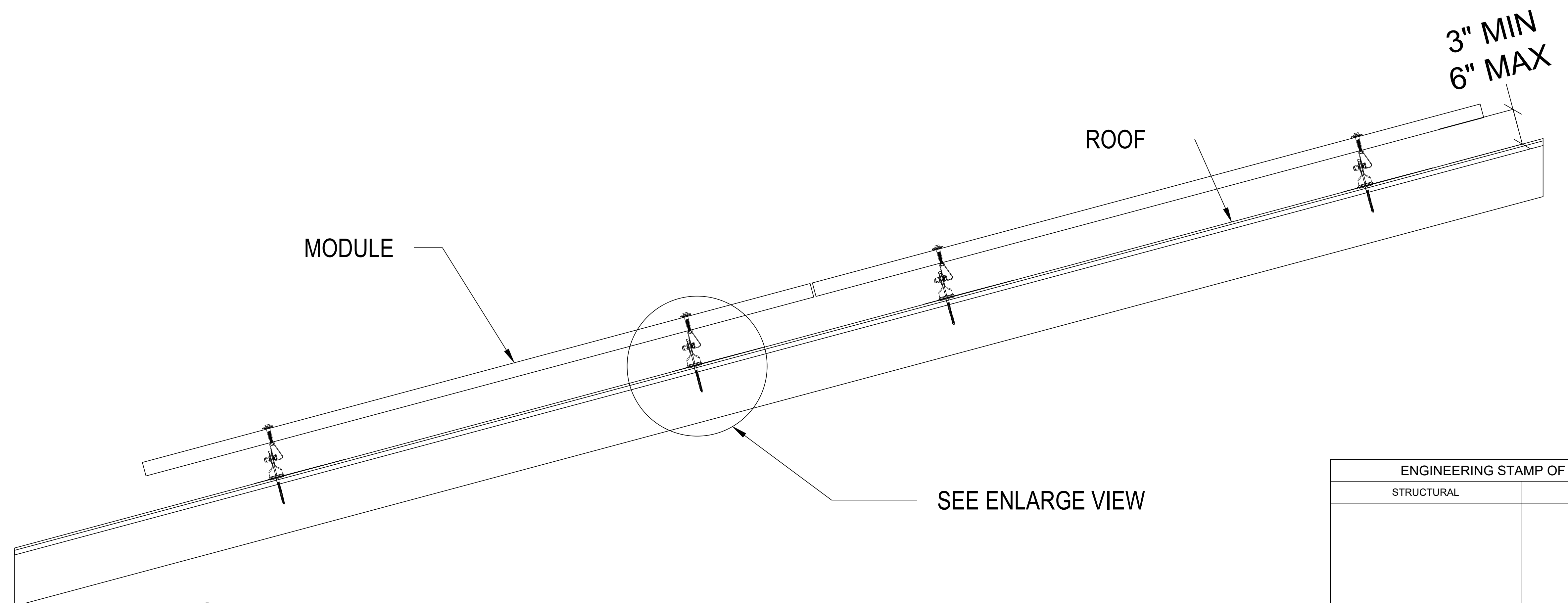
ROOF NO	ROOF TILT	ROOFING TYPE	ATTACHMENT TYPE	NO. OF STORIES	FRAMING TYPE	FRAMING SIZE	OC SPACING	PENETRATION PATTERN	MAX PENETRATION SPACING	MAX OVERHANG
ROOF 1	40	COMP SHINGLE	IRONRIDGE FLASHFOOT 2	TWO	RAFTER	2"X6"	24	<b>FULLY STAGGERED</b>	48	24"



**ENLARGE VIEW**



**FRONT VIEW**



**ATTACHMENT DETAIL**

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 Email: Projects@creng.solar  
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 PHONE: (951)-215-6354

**CONTRACTOR INFO**

**SAMPLE**  
 805 UNIVERSITY AVE., SUITE K,  
 LOS GATOS, CALIFORNIA 95032  
 PHONE - (408) 766-9475  
 LIC. NO. - 940091

AHJ	ALAMEDA COUNTY
UTILITY	PACIFIC GAS & ELECTRIC (PG&E)

PV SUMMARY				
SYSTEM SIZE (KWDC)	: STC	400	X 48	= 19.200
	: PTC	381	X 48	= 18.288
SYSTEM SIZE (KWAC)	: 25.000	@240		
MODULES	: 48	REC SOLAR REC400AA PURE		
INVERTER	: 1	SOLECTRIA PVI - 25 TL-208		

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ENGINEERING STAMP OF APPROVAL	
STRUCTURAL	ELECTRICAL

PROJECT #	NA
DATE DRAWN	9/23/2025
DRAWN BY	E.R
SHEET #	

TITLE  
**ROOF STRUCTURAL**

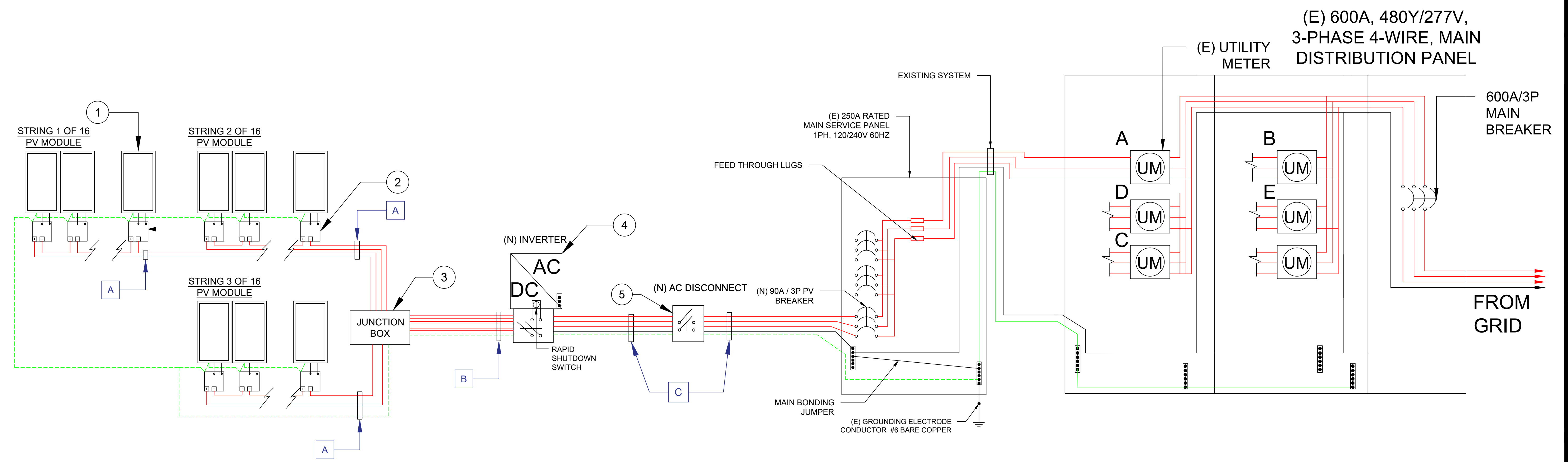
BACKFEED BREAKER SIZING				
MAX. CONTINUOUS OUTPUT 69.5A @ 240V				
69.50	X	1.25	=	86.88AMPS 90A BREAKER - OK

NOTE :  
AC DISCONNECT MUST BE PHYSICALLY LOCATED WITHIN 10' OR WITHIN LINE OF SIGHT OF THE METER.

ENGINEERING STAMP OF APPROVAL	
STRUCTURAL	ELECTRICAL

ELECTRICAL EQUIPMENT LIST			
S. NO.	ITEMS	DESCRIPTION	QTY.
1	PV MODULE	REC SOLAR REC400AA PURE	48
2	OPTIMIZER	TIGO TS4-A-O	48
3	JUNCTION BOX	600VDC NEMA 3R UL LISTED JUNCTION BOX	2
4	INVERTER	SOLECTRIA PVI - 25TL-208	1
5	AC DISCONNECT	100A RATED DH363UGK EATON KNIFE BLADE LOCKABLE NEMA 3R UL LISTED	1

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**CONTRACTOR INFO**

**SAMPLE**

AHJ	ALAMEDA COUNTY
UTILITY	PACIFIC GAS & ELECTRIC (PG&E)

PV SUMMARY				
SYSTEM SIZE (KWDC)	: STC	400	X 48	= 19.200
SYSTEM SIZE (KWAC)	: PTC	381	X 48	= 18.288
MODULES	: 48	REC SOLAR REC400AA PURE		
INVERTER	: 1	SOLECTRIA PVI - 25 TL-208		

WIRE CALCULATION											
TAG	CONDUCTOR QTY.	CONDUCTOR SIZE (AWG)	DESCRIPTION	CONDUIT SIZE & TYPE	STARTING ALLOWABLE AMPACITY 310.15(B)(16)	TEMPERATURE RATING (°C)	STARTING CURRENT APPLIED TO CONDUCTORS IN RACEWAY	TEMPERATURE CORRECTION FACTOR 310.15(B)(2)(a)	ADJUSTMENT FACTOR FOR MORE THAN 3 CONDUCTORS 310.15(B)(3)(a)	ADJUSTED CONDUCTOR AMPACITY	MAXIMUM CURRENT APPLIED TO CONDUCTORS IN RACEWAY
A	2	10	PV WIRE, COPPER- (L1,L2)	N/A FREE AIR	40	90°	15	0.96	1	38.40	18.75
	1	6	BARE COPPER-(GROUND)								
B	6	10	THWN-2 COPPER- (L1,L2)	3/4" EMT	40	90°	15	0.96	0.8	30.72	18.75
	1	10	THWN-2 COPPER- (GROUND)								
C	4	1	THWN COPPER- (L1,L2,L3,N)	1-1/4" EMT	130	75°	69.5	0.94	0.8	97.76	86.88
	1	6	THWN COPPER- (GROUND)								

Rev	Description	Date
0	INITIAL DESIGN	9/23/2025
A		
B		

PROJECT #	NA
DATE DRAWN	9/23/2025
DRAWN BY	E.R
SHEET #	

TITLE  
**ELECTRICAL 3LD**

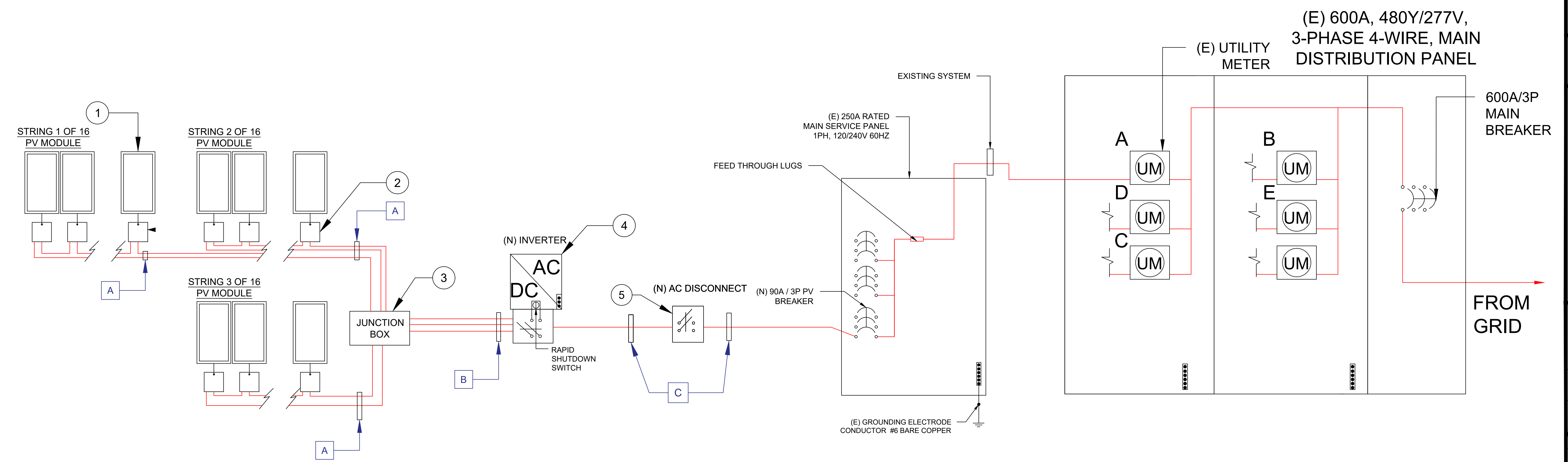
BACKFEED BREAKER SIZING				
MAX. CONTINUOUS OUTPUT 69.5A @ 240V				
69.50	X	1.25	=	86.88AMPS
				90A BREAKER - OK

NOTE :  
AC DISCONNECT MUST BE PHYSICALLY LOCATED WITHIN 10' OR WITHIN LINE OF SIGHT OF THE METER.

ENGINEERING STAMP OF APPROVAL	
STRUCTURAL	ELECTRICAL

ELECTRICAL EQUIPMENT LIST			
S. NO.	ITEMS	DESCRIPTION	QTY.
1	PV MODULE	REC SOLAR REC400AA PURE	48
2	OPTIMIZER	TIGO TS4-A-O	48
3	JUNCTION BOX	600VDC NEMA 3R UL LISTED JUNCTION BOX	2
4	INVERTER	SOLECTRIA PVI - 25TL-208	1
5	AC DISCONNECT	100A RATED DH363UGK EATON KNIFEBLADE LOCKABLE NEMA 3R UL LISTED	1

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WIRE CALCULATION											
TAG	CONDUCTOR QTY.	CONDUCTOR SIZE (AWG)	DESCRIPTION	CONDUIT SIZE & TYPE	STARTING ALLOWABLE AMPACITY 310.15(B)(16)	TEMPERATURE RATING (°C)	STARTING CURRENT APPLIED TO CONDUCTORS IN RACEWAY	TEMPERATURE CORRECTION FACTOR 310.15(B)(2)(a)	ADJUSTMENT FACTOR FOR MORE THAN 3 CONDUCTORS 310.15(B)(3)(a)	ADJUSTED CONDUCTOR AMPACITY	MAXIMUM CURRENT APPLIED TO CONDUCTORS IN RACEWAY
A	2	10	PV WIRE, COPPER- (L1,L2)	N/A FREE AIR	40	90°	15	0.96	1	38.40	18.75
	1	6	BARE COPPER-(GROUND)								
B	6	10	THWN-2 COPPER- (L1,L2)	3/4" EMT	40	90°	15	0.96	0.8	30.72	18.75
	1	10	THWN-2 COPPER- (GROUND)								
C	4	1	THWN COPPER- (L1,L2,L3,N)	1-1/4" EMT	130	75°	69.5	0.94	0.8	97.76	86.88
	1	6	THWN COPPER- (GROUND)								

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**CONTRACTOR INFO**

**GOLDEN BEAR SOLAR**

AHJ	ALAMEDA COUNTY
UTILITY	PACIFIC GAS & ELECTRIC (PG&E)

PV SUMMARY				
SYSTEM SIZE (KWDC)	: STC	400	X 48	= 19.200
	: PTC	381	X 48	= 18.288
SYSTEM SIZE (KWAC)	: 25.000	@240		
MODULES	: 48	REC SOLAR REC400AA PURE		
INVERTER	: 1	SOLECTRIA PVI - 25 TL-208		

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0	INITIAL DESIGN	9/23/2025
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B		

PROJECT #	NA
DATE DRAWN	9/23/2025
DRAWN BY	E.R
SHEET #	

**ELECTRICAL SLD**

**ELECTRICAL EQUIPMENT**

QTY.	PART TYPE	PART NUMBER	DESCRIPTION
48	MODULE	REC400AA PURE	REC SOLAR REC400AA PURE
1	INVERTER	PVI-25TL-208	SOLECTRIA PVI-25TL-208
2	JUNCTION BOX	480-276	600VDC NEMA 3R UL LISTED JUNCTION BOX
1	AC DISCONNECT	DH363UGK	100A, 3P, 600V/250VDC, HD SAFETY SWITCH, NEMA 3 R
48	OPTIMIZER	TS4-A-O	TIGO TS4-A-O

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**BREAKER/FUSES**

QTY	PART TYPE	PART NUMBER	DESCRIPTION
1	BREAKER	90A 3-POLE BREAKER (S)	GENERAL 90A 3-POLE BREAKER (S)

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**SAMPLE**

**RACKING**

QTY	PART TYPE	PART NUMBER	DESCRIPTION
42	RAILS & SPLICES	XR-10-168A	XR-10, 168" (14') CLEAR
6	RAILS & SPLICES	XR10-BOSS-01-M1	BONDED SPLICE, XR10
70	CLAMPS & GROUNDING	UFO-CL-01-A1	UNIVERSAL MODULE CLAMP, CLEAR
12	CLAMPS & GROUNDING	UFO-END-01-A1	END FASTENING OBJECT (END CLAMP, 30-40MM), MILL
3	CLAMPS & GROUNDING	XR-LUG-04-A1	END GROUNDING LUG, LOW PROFILE
109	ATTACHMENTS	FF2-00-A1	FLASHFOOT2, MILL
109	ATTACHMENTS	BHW-SQ-03-A1	SQUARE BOLT, BONDING HARDWARE

AHJ ALAMEDA COUNTY

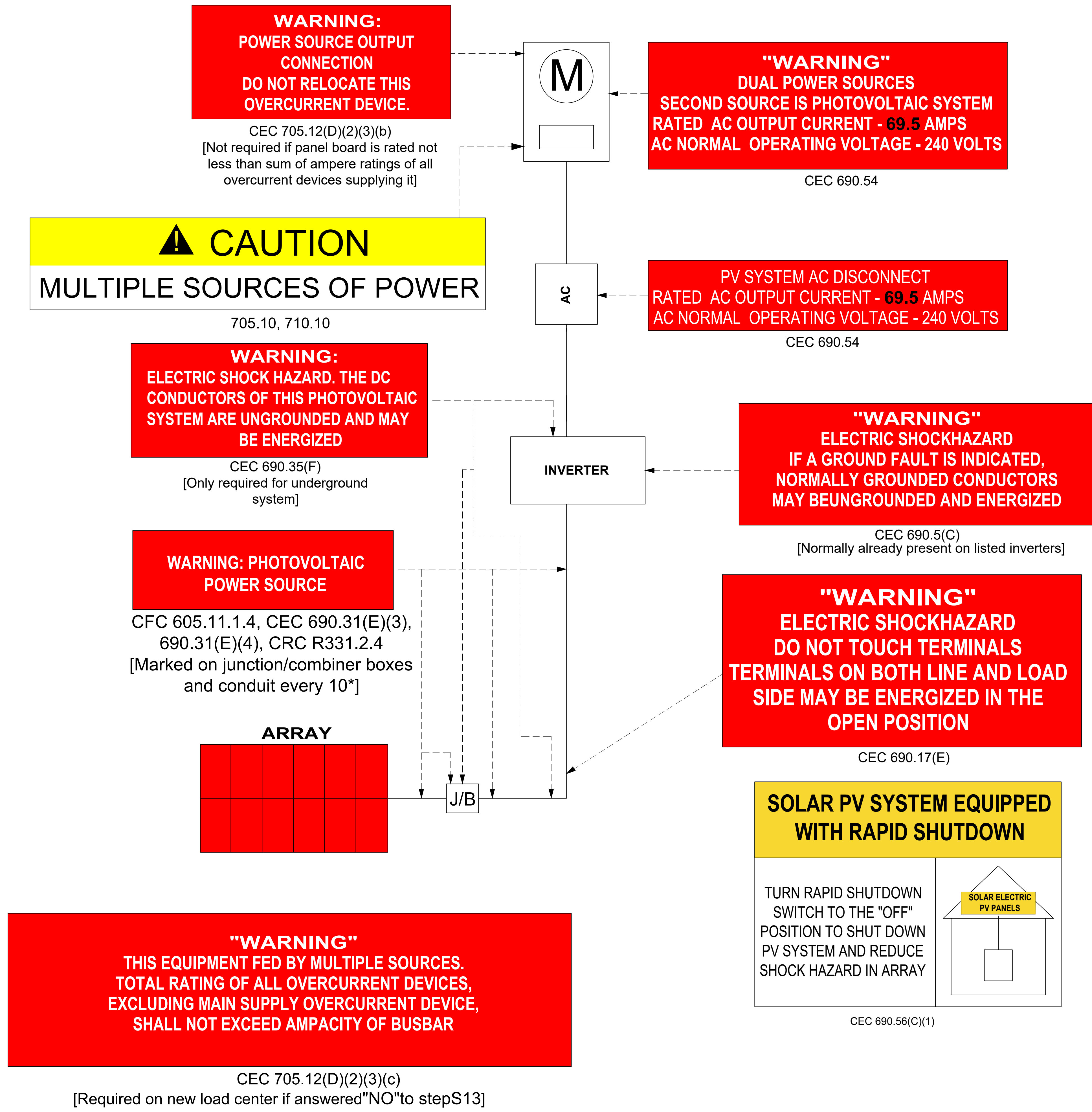
UTILITY PACIFIC GAS & ELECTRIC (PG&E)

PV SUMMARY				
SYSTEM SIZE (KWDC)	:	STC	400 X 48	= 19.200
SYSTEM SIZE (KWAC)	:	PTC	381 X 48	= 18.288
MODULES	:	48	REC SOLAR REC400AA PURE	
INVERTER	:	1	SOLECTRIA PVI - 25 TL-208	

Rev	Description	Date
0	INITIAL DESIGN	9/23/2025
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PROJECT #	NA
DATE DRAWN	9/23/2025
DRAWN BY	E.R
SHEET #	

TITLE  
**BOM**



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SYSTEM SIZE (KWDC)	: STC	400	X 48	= 19.200
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SYSTEM SIZE (KWAC)	: 25.000	@240		
MODULES	: 48			REC SOLAR REC400AA PURE
INVERTER	: 1			SOLECTRIA PVI - 25 TL-208

Rev	Description	Date
0	INITIAL DESIGN	9/23/2025
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B		

PROJECT #	NA
DATE DRAWN	9/23/2025
DRAWN BY	E.R
SHEET #	

TITLE  
**SIGNAGE**