



### SITE NOTES

- 1 PHOTOVOLTAIC SYSTEMS SHALL BE MARKED TO IDENTIFY THE MAIN ELECTRICAL SERVICE DISCONNECT. MATERIALS USED FOR MARKING SHALL BE WEATHER RESISTANT AND MEET UL 969 AS THE STANDARD FOR WEATHER RATING.
  - 2 THE MAIN ELECTRICAL SERVICE DISCONNECT MARKING SHALL BE PLACED ADJACENT TO THE MAIN SERVICE DISCONNECT IN A LOCATION CLEARLY VISIBLE FROM THE LOCATION WHERE THE LEVER IS OPERATED, FOR COMMERCIAL AND INDUSTRIAL BUILDINGS.
  - 3 PHOTOVOLTAIC CIRCUIT MARKING SHALL BE PLACED ON ALL INTERIOR AND EXTERIOR PHOTOVOLTAIC DC CIRCUIT CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, AND JUNCTION BOXES. MARKINGS SHALL BE PLACED EVERY 10 FEET, AT TURNS, ABOVE AND/OR BELOW PENETRATIONS, AND AT ALL PHOTOVOLTAIC CIRCUIT COMBINER AND JUNCTION BOXES.
  - 4 SOLAR PHOTOVOLTAIC POWER SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 605.11.1 THROUGH 605.11.2, THE CALIFORNIA BUILDING CODE, OR CALIFORNIA RESIDENTIAL CODE, AND CALIFORNIA ELECTRICAL CODE.
- FIRE NOTES: (CHAPTER 12 OF CALIFORNIA FIRE CODE)
- 5 1204.4 - GROUND-MOUNTED PHOTOVOLTAIC ARRAYS SHALL COMPLY WITH SECTION 1204.1 AND THIS SECTION. SETBACK REQUIREMENTS SHALL NOT APPLY TO GROUND-MOUNTED, FREE-STANDING PHOTOVOLTAIC ARRAYS. A CLEAR, BRUSH-FREE AREA OF 10 FEET (3048 mm) SHALL BE REQUIRED FOR GROUND-MOUNTED PHOTOVOLTAIC ARRAYS.

### CONTRACTOR

REVEL-ENERGY, INC.  
 2323 MAIN ST.  
 IRVINE, CA 92614  
 CSLB #: 1038433 / A, B, C10, C46  
 (949) 281-7171

I HEREBY CERTIFY THAT THE WORK PROPOSED TO BE DONE ON THESE PLANS IS IN CONFORMANCE WITH ALL CODES AND ORDINANCES OF THE A.H.J. OF CITY OF COACHELLA AND FURTHER, IF OMISSIONS OR ERRORS ARE DISCOVERED, I UNDERSTAND THAT THE WORK PERFORMED WILL BE REQUIRED TO COMPLY WITH THE CODES AND ORDINANCES OF THE A.H.J. OF CITY OF COACHELLA PRIOR TO FINAL BUILDING INSPECTION.

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ STATE LICENSE NO. \_\_\_\_\_  
 1038433 / A, B, C10, C46

PROJECT LOCATION:  
 WOODSPUR FARMS PV  
 5220 INDUSTRIAL WAY  
 COACHELLA, CA 92236

ARCH D (24" X 36") PRINT PAPER SIZE

NO.	DATE	DESCRIPTION	ELECT.	STRUC.
	7/27/2021	INITIAL PLAN SET	A.L.	--
	8/18/2021	1ST REVISIONS	A.L.	--
	9/11/2021	1ST CORRECTIONS	A.L.	--
	9/9/2021	2ND REVISIONS	A.L.	--

#### SYSTEM INFO:

TOTAL SYSTEM SIZE: DC STC: 2373.10 KW  
 TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW  
 SOLAR MODULES: (4996) TRINA TSM-475DE15V(I)  
 INVERTER(S): (31) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 1:  
 SYSTEM SIZE DC STC: 630.80 KW  
 SYSTEM SIZE AC CEC: 581.05 KW  
 SOLAR MODULES: (1328) TRINA TSM-475DE15V(I)  
 INVERTER(S): (8) CPS SCA60TL-DO/US-480

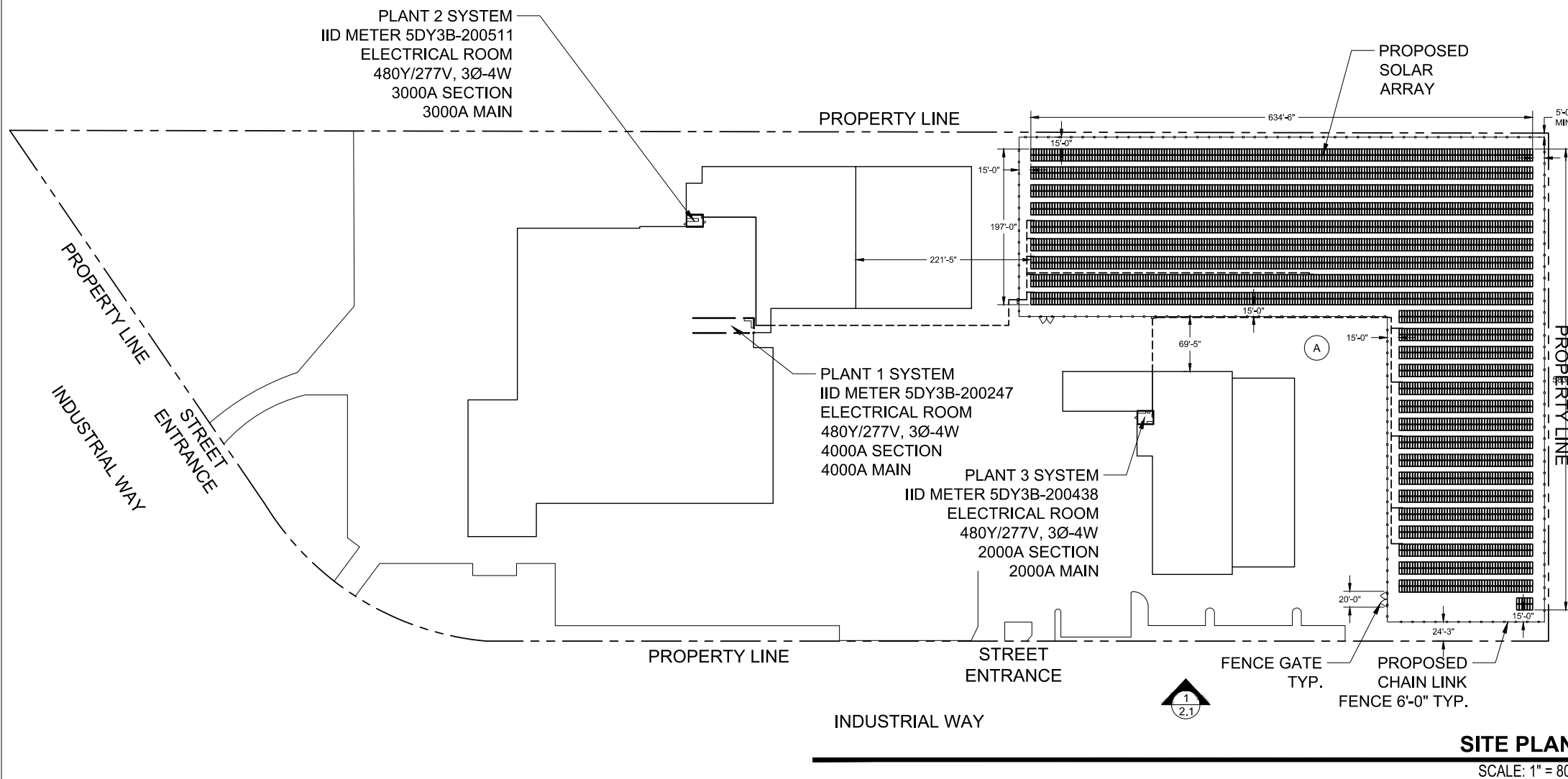
SYSTEM (PLANT) 2:  
 SYSTEM SIZE DC STC: 975.65 KW  
 SYSTEM SIZE AC CEC: 898.70 KW  
 SOLAR MODULES: (2054) TRINA TSM-475DE15V(I)  
 INVERTER(S): (13) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 3:  
 SYSTEM SIZE DC STC: 766.65 KW  
 SYSTEM SIZE AC CEC: 706.18 KW  
 SOLAR MODULES: (1614) TRINA TSM-475DE15V(I)  
 INVERTER(S): (10) CPS SCA60TL-DO/US-480

#### DESCRIPTION:

### SITE PLAN

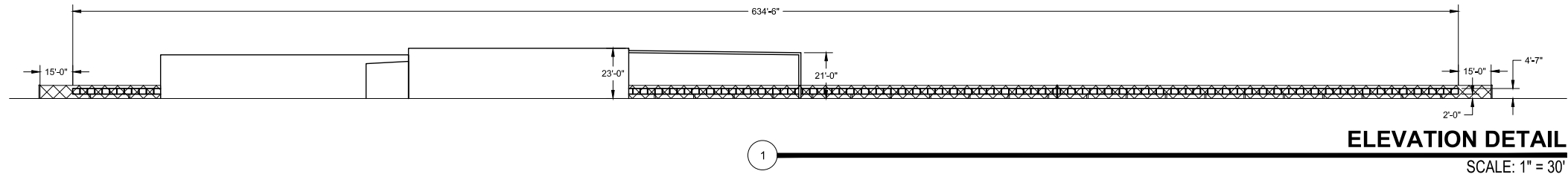
# PV 2.0



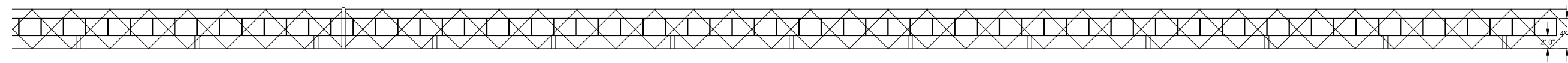
ARRAY INFORMATION	
ARRAY	(A)
ARRAY TILT	20°
STRUCTURE INFO	SEE S-1
MODULE COUNT	4996
MODULE AREA	126477.5SQ.FT.
ARRAY AZIMUTH	180°

### SITE PLAN

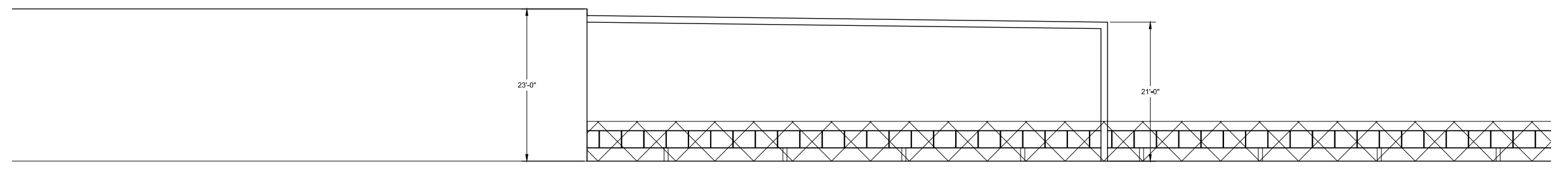
SCALE: 1" = 80'



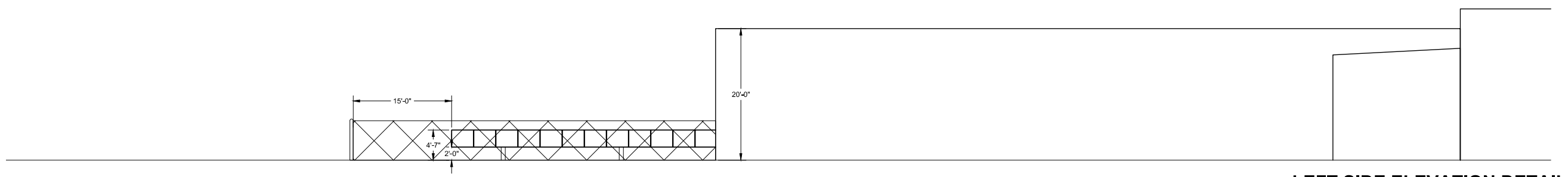
**ELEVATION DETAIL**  
SCALE: 1" = 30'



**RIGHT SIDE ELEVATION DETAIL**  
SCALE: 1/8" = 1'-0"



**CENTRAL ELEVATION DETAIL**  
SCALE: 1/8" = 1'-0"



**LEFT SIDE ELEVATION DETAIL**  
SCALE: 1/8" = 1'-0"

**CONTRACTOR**

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2323 MAIN ST.  
IRVINE, CA 92614  
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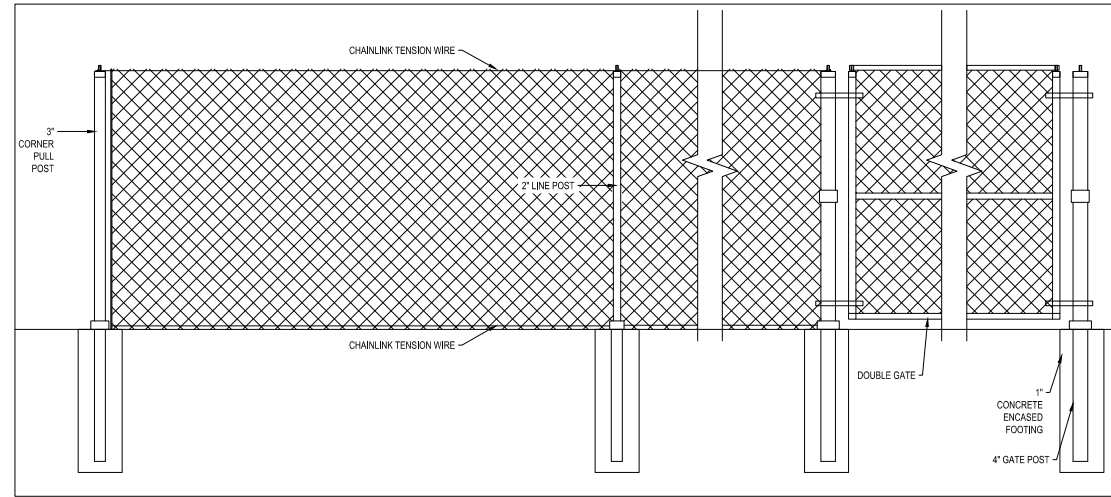
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**DESCRIPTION:**

**ELEVATION DETAIL**

**PV 2.1**



**FENCE DETAIL TYP**

SCALE: 1/2" = 1'-0"

FENCE NOTES:

1. BONDING JUMPERS ARE REQUIRED AT EACH FENCE CORNER AND AT MAXIMUM 160 FT. INTERVALS ALONG THE FENCE.
2. BONDING JUMPERS ARE REQUIRED ON EACH SIDE OF THE CROSSING WHERE BARE OVERHEAD CONDUCTORS CROSS THE FENCE.
3. GATES MUST BE BONDED TO THE GATE SUPPORT POST, AND EACH GATE SUPPORT POST MUST BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.
4. ANY GATE OR OTHER OPENING IN THE FENCE MUST BE BONDED ACROSS THE OPENING BY A BURIED BONDING JUMPER.
5. THE GROUNDING GRID OR GROUNDING ELECTRODE SYSTEMS SHALL BE EXTENDED TO COVER THE SWING OF ALL GATES.
6. THE BARBED WIRE STRANDS ABOVE THE FENCE MUST BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.

SEE PV5 FOR GROUNDING DETAILS

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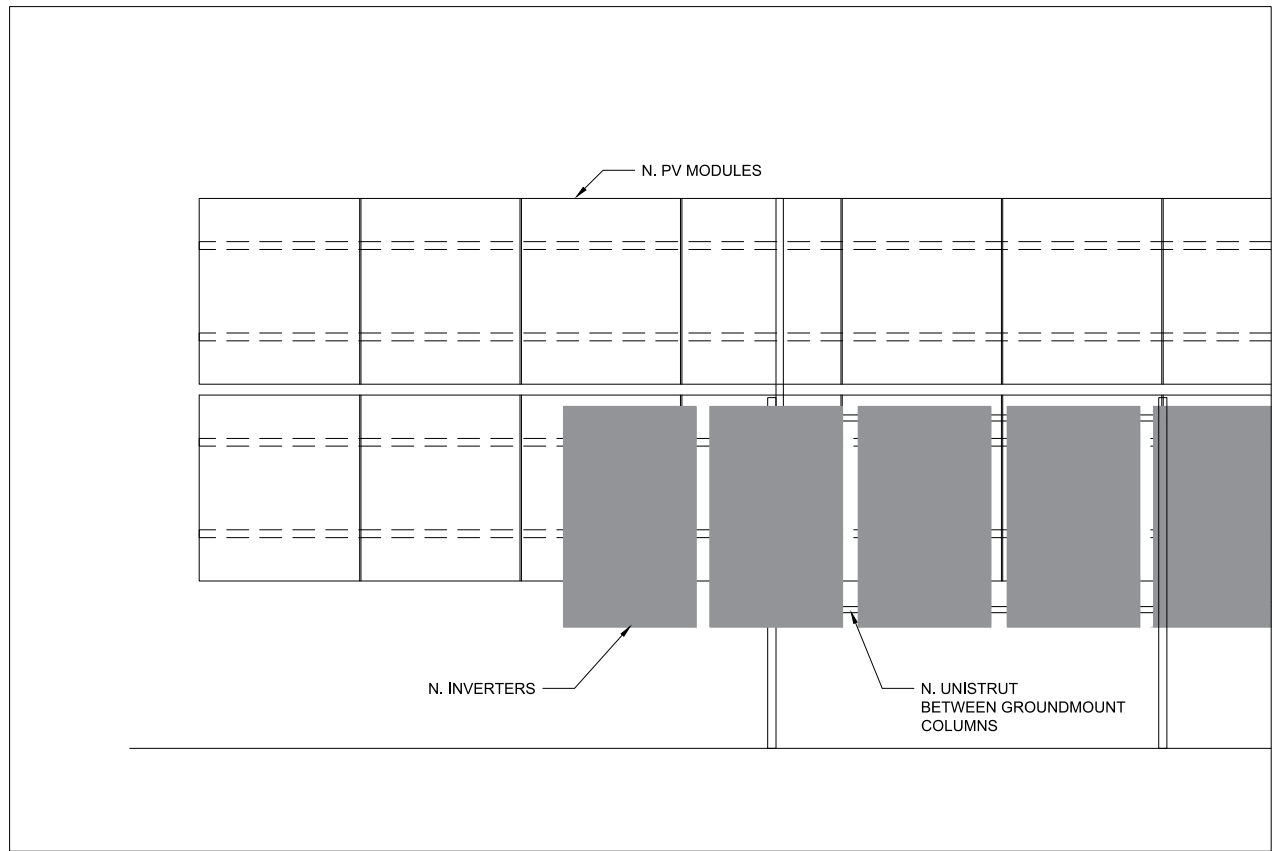
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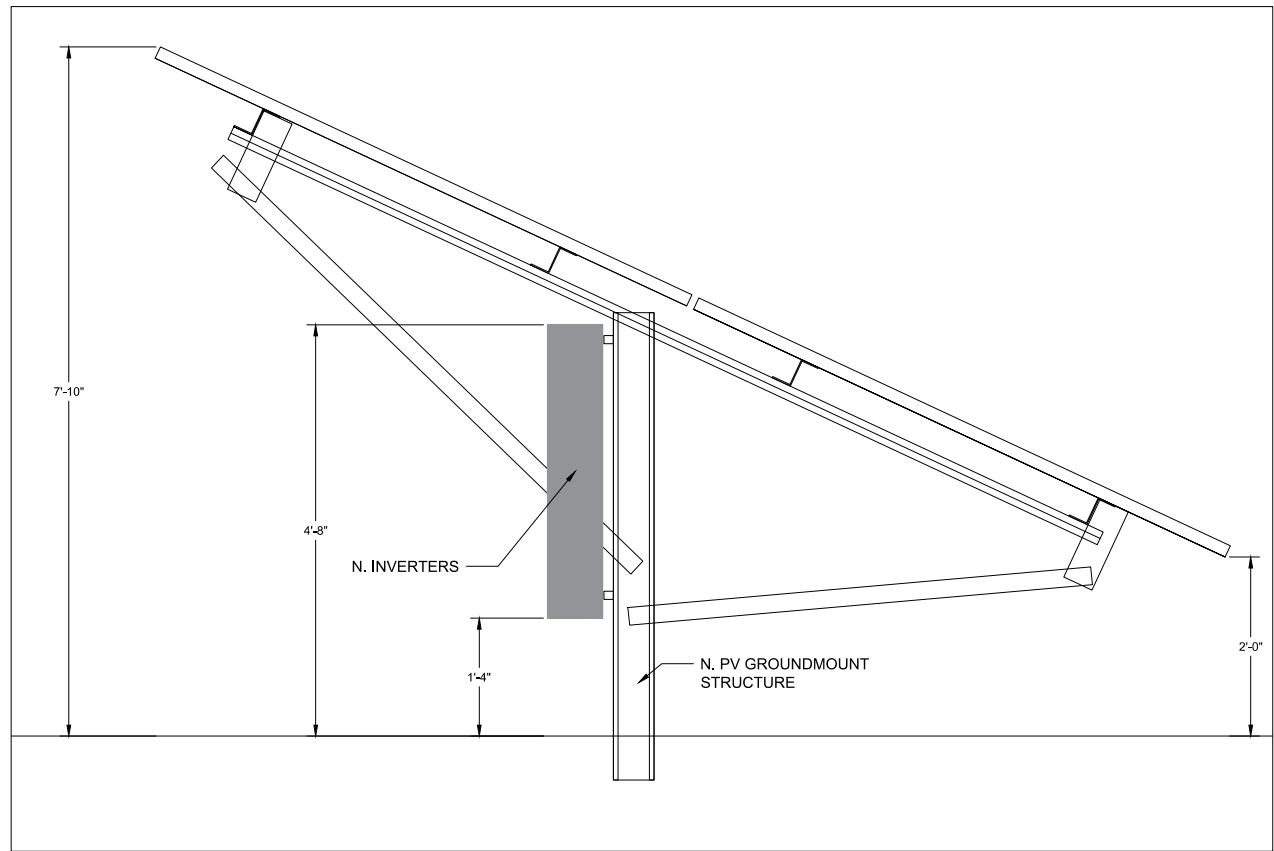
**ELEVATION DETAIL**

**PV 2.2**



**TYP. INVERTER ELEVATION VIEW**

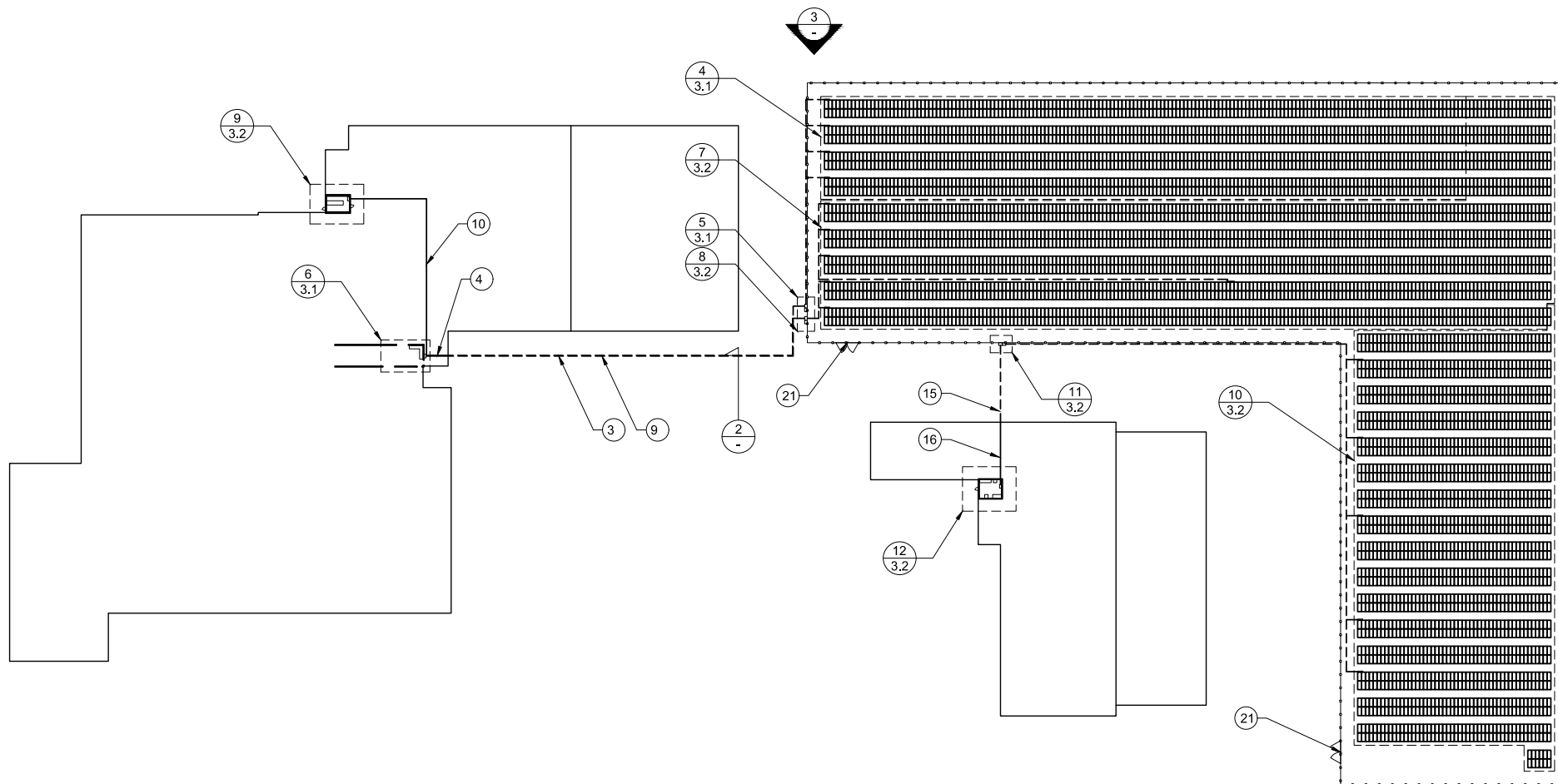
\*NOTE: THIS DETAIL IS FOR INVERTER MOUNT REFERENCE ONLY SCALE: 1:16



**TYP. INVERTER ELEVATION VIEW**

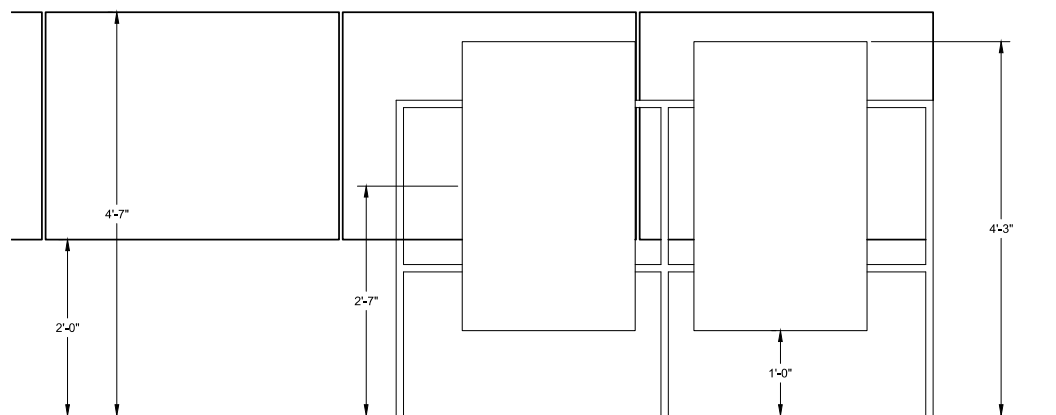
\*NOTE: THIS DETAIL IS FOR INVERTER MOUNT REFERENCE ONLY SCALE: 1" = 1'-0"

\*SEE PV 5 FOR FENCE GROUNDING DETAILS\*



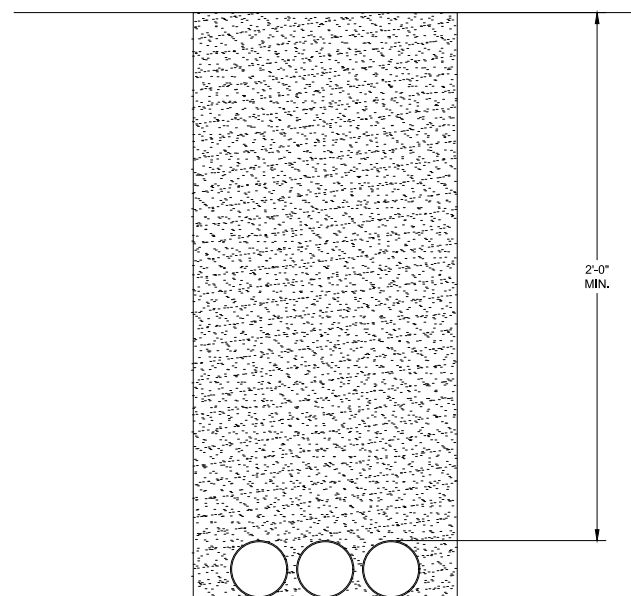
**PLOT PLAN**

SCALE: 1/64" = 1'-0"



**TYP. INVERTER ELEVATION**

SCALE: 1" = 1'-0"

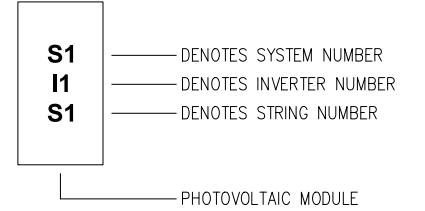


**TYP. TRENCH DETAIL**

SCALE: 3" = 1'-0"

**PLAN LEGEND**

- ① E. SYSTEM 1 IID METER 5DY3B-200247  
4000A 480Y/277V 3P-4W SWITCHGEAR.  
INTERIOR. PAD MOUNTED.
- ② N. 800A 600V 3P/4W NON-FUSED PHOTOVOLTAIC  
AC DISCONNECT. INTERIOR. WALL MOUNTED.  
SYSTEM DISCONNECT 1 OF 2.
- ③ N. UNDERGROUND PVC SCH40 TO ROOFTOP EMT.  
SEE PV4.0 FOR WIRE SCHEDULE.
- ④ N. ROOFTOP EMT TO ELECTRICAL ROOM. SEE PV4.0  
FOR WIRE SCHEDULE.
- ⑤ N. 800A 480Y/277V PV COMBINER SWITCHGEAR W/  
RPU METER SOCKET SYSTEM.  
DISCONNECT 2 OF 2
- ⑥ N. SCA60TL-DO/US-480 PV INVERTERS.  
OUTDOOR RATED W/INTEGRATED DC & AC  
DISCONNECTS. ARRAY MOUNTED.
- ⑦ E. SYSTEM 2 IID METER 5DY3B-200511  
3000A 480Y/277V 3P-4W SWITCHGEAR.  
INTERIOR. PAD MOUNTED.
- ⑧ N. 1600A 600V 3P/4W FUSED PHOTOVOLTAIC AC  
DISCONNECT. 1600A FUSES. INTERIOR. WALL  
MOUNTED.  
SYSTEM DISCONNECT 1 OF 2.
- ⑨ N. UNDERGROUND PVC SCH40. SEE PV4.1 FOR WIRE  
SCHEDULE.
- ⑩ N. ROOFTOP EMT TO ELECTRICAL ROOM. SEE PV4.1  
FOR WIRE SCHEDULE.
- ⑪ N. 1600A 480Y/277V PV COMBINER SWITCHGEAR  
W/ RPU METER SOCKET.  
SYSTEM DISCONNECT 2 OF 2.
- ⑫ N. SCA60TL-DO/US-480 PV INVERTERS.  
OUTDOOR RATED W/INTEGRATED DC & AC  
DISCONNECTS. ARRAY MOUNTED.
- ⑬ E. SYSTEM 3 IID METER 5DY3B-200438  
3000A 480Y/277V 3P-4W SWITCHGEAR.  
INTERIOR. PAD MOUNTED.
- ⑭ N. 1200A 600V 3P/4W FUSED PHOTOVOLTAIC AC  
DISCONNECT. 1000A FUSES. INTERIOR. WALL  
MOUNTED.  
SYSTEM DISCONNECT 1 OF 2.
- ⑮ N. UNDERGROUND PVC SCH40. SEE PV4.2 FOR  
WIRE SCHEDULE.
- ⑯ N. ROOFTOP EMT TO ELECTRICAL ROOM. SEE PV4.2  
FOR WIRE SCHEDULE.
- ⑰ N. 1200A 480Y/277V PV COMBINER SWITCHGEAR  
W/ RPU METER SOCKET.  
SYSTEM DISCONNECT 2 OF 2.
- ⑱ N. SCA60TL-DO/US-480 PV INVERTERS.  
OUTDOOR RATED W/INTEGRATED DC & AC  
DISCONNECTS. ARRAY MOUNTED.
- ⑲ N. ARRAY "A". 4410 MODULES MOUNTED ON  
STRUCTURE.
- ⑳ N. FENCELINE AROUND ARRAY "A". 15'  
CLEARANCE FROM ARRAY.
- ㉑ N. FENCE GATE.



**CONTRACTOR**

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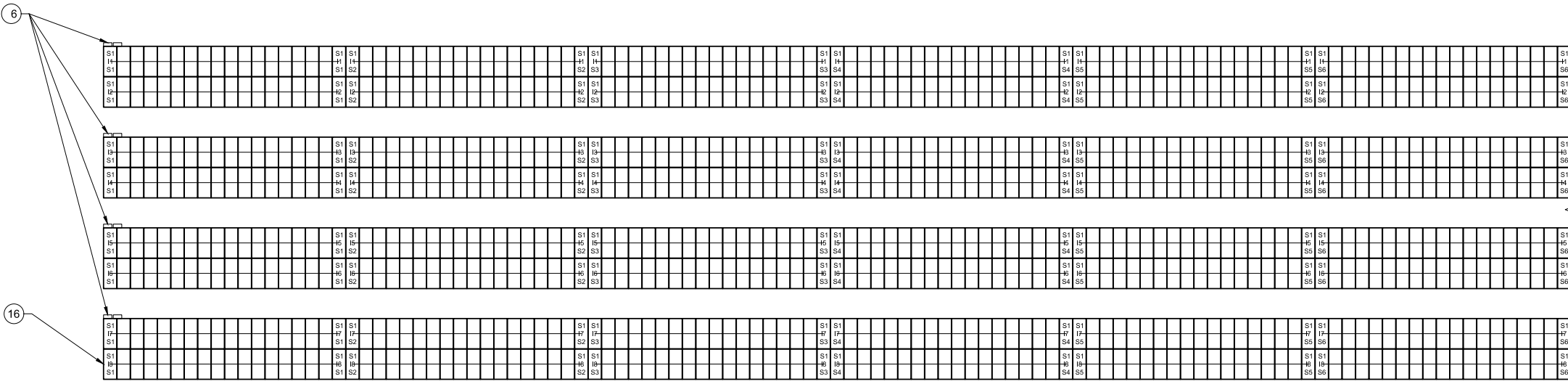
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**DESCRIPTION:**

**PLOT PLAN**

# PV 3.0



**PLAN LEGEND**

- ① E. SYSTEM 1 IID METER 5DY3B-200247  
4000A 480Y/277V 3P-4W SWITCHGEAR.  
INTERIOR. PAD MOUNTED.
- ② N. 800A 600V 3P/4W NON-FUSED PHOTOVOLTAIC  
AC DISCONNECT. INTERIOR. WALL MOUNTED.  
SYSTEM DISCONNECT 1 OF 2.
- ③ N. UNDERGROUND PVC SCH40 TO ROOFTOP EMT.  
SEE PV4.0 FOR WIRE SCHEDULE.
- ④ N. ROOFTOP EMT TO ELECTRICAL ROOM. SEE PV4.0  
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- ⑤ N. 800A 480Y/277V PV COMBINER SWITCHGEAR W/  
RPU METER SOCKET SYSTEM.  
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- ⑥ N. SCA60TL-DO/US-480 PV INVERTERS.  
OUTDOOR RATED W/INTEGRATED DC & AC  
DISCONNECTS. ARRAY MOUNTED.

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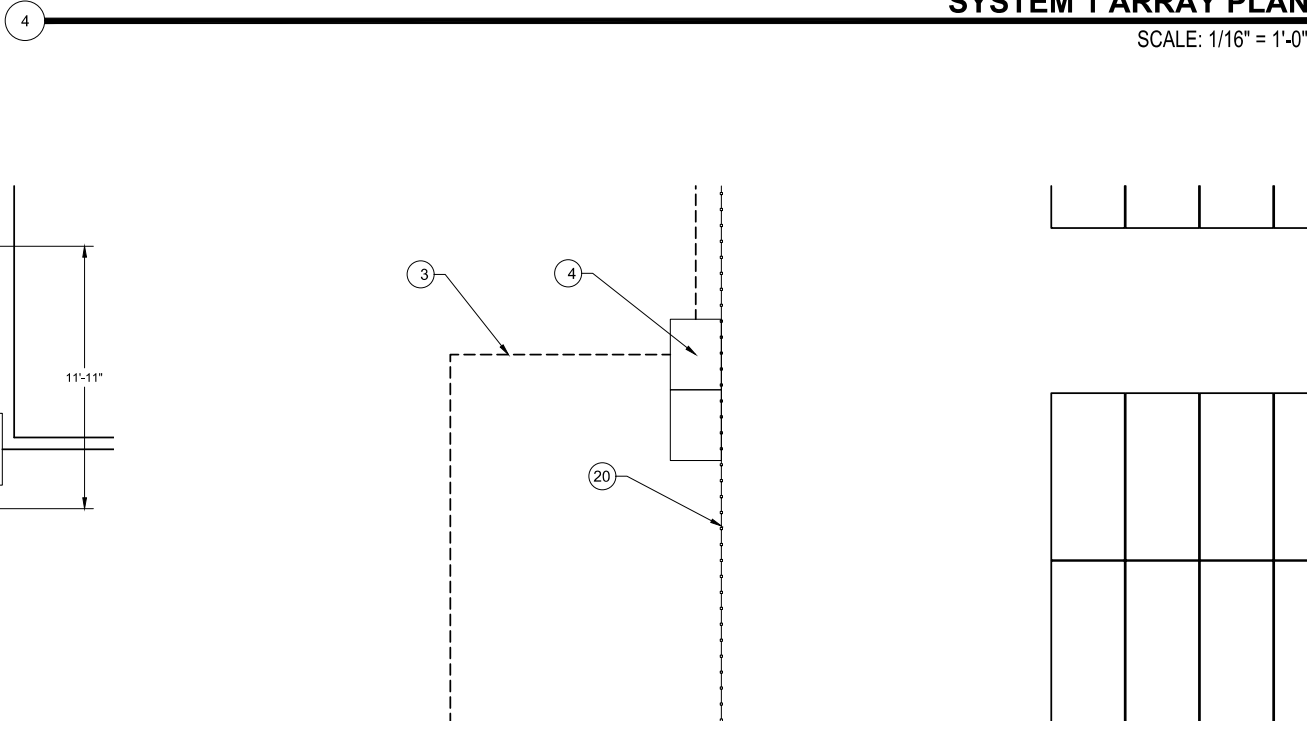
**DESCRIPTION:**

- ⑮ N. ARRAY "A". 4410 MODULES MOUNTED ON  
STRUCTURE.
  - ⑯ N. FENCELINE AROUND ARRAY "A". 15'  
CLEARANCE FROM ARRAY.
  - ⑰ N. FENCE GATE.
- S1** DENOTES SYSTEM NUMBER  
**I1** DENOTES INVERTER NUMBER  
**S1** DENOTES STRING NUMBER
- PHOTOVOLTAIC MODULE



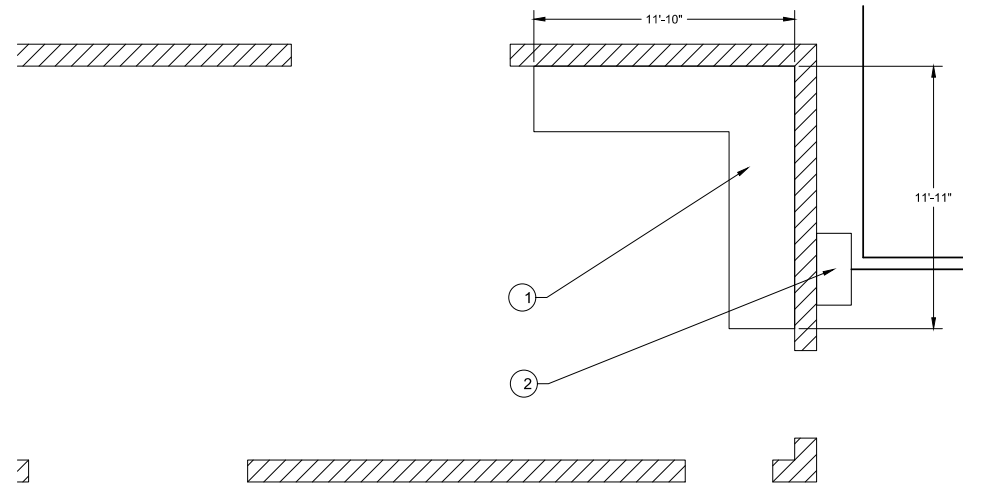
**SYSTEM 1 ARRAY PLAN**

SCALE: 1/16" = 1'-0"



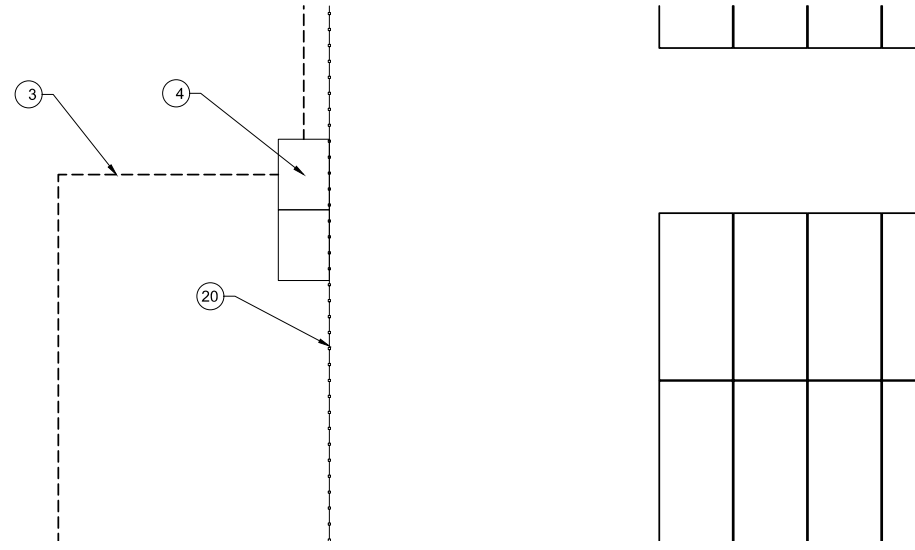
**SYSTEM 1 ELECTRICAL ROOM**

SCALE: 1/4" = 1'-0"



**SYSTEM 1 ELECTRICAL EQUIPMENT**

SCALE: 1/4" = 1'-0"



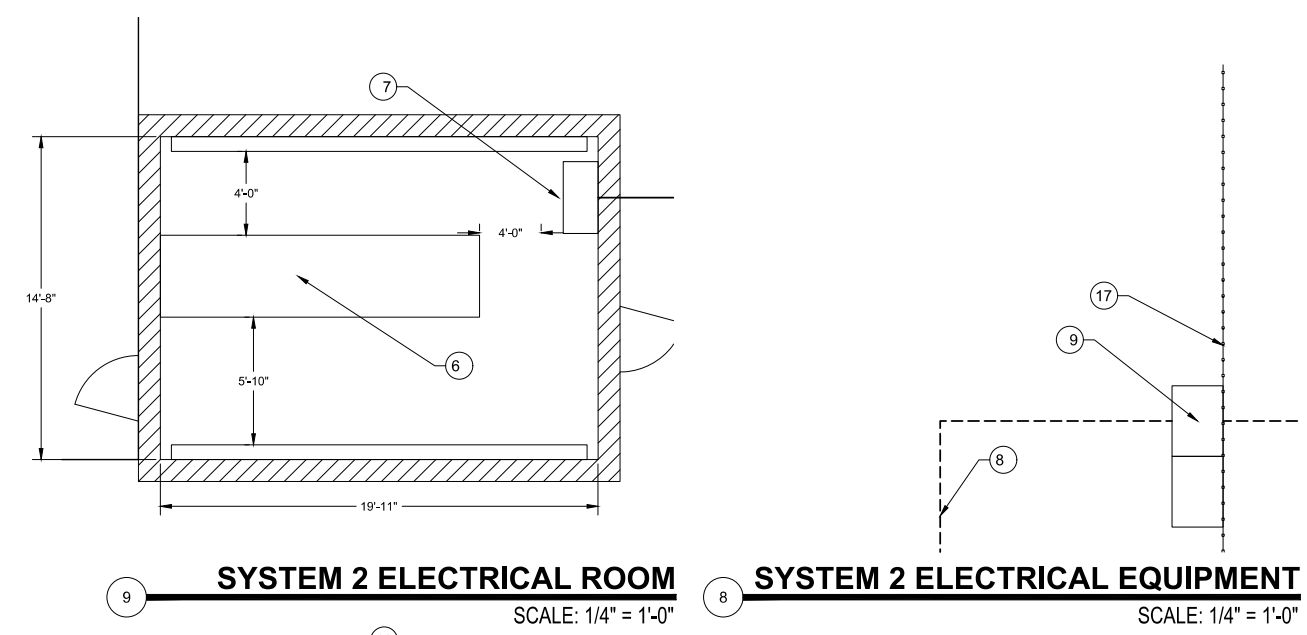
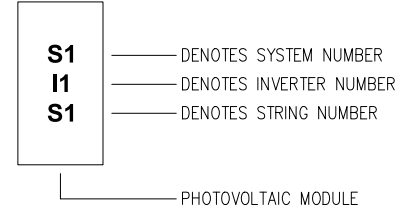
**SYSTEM 1 PLAN**

**PV 3.1**

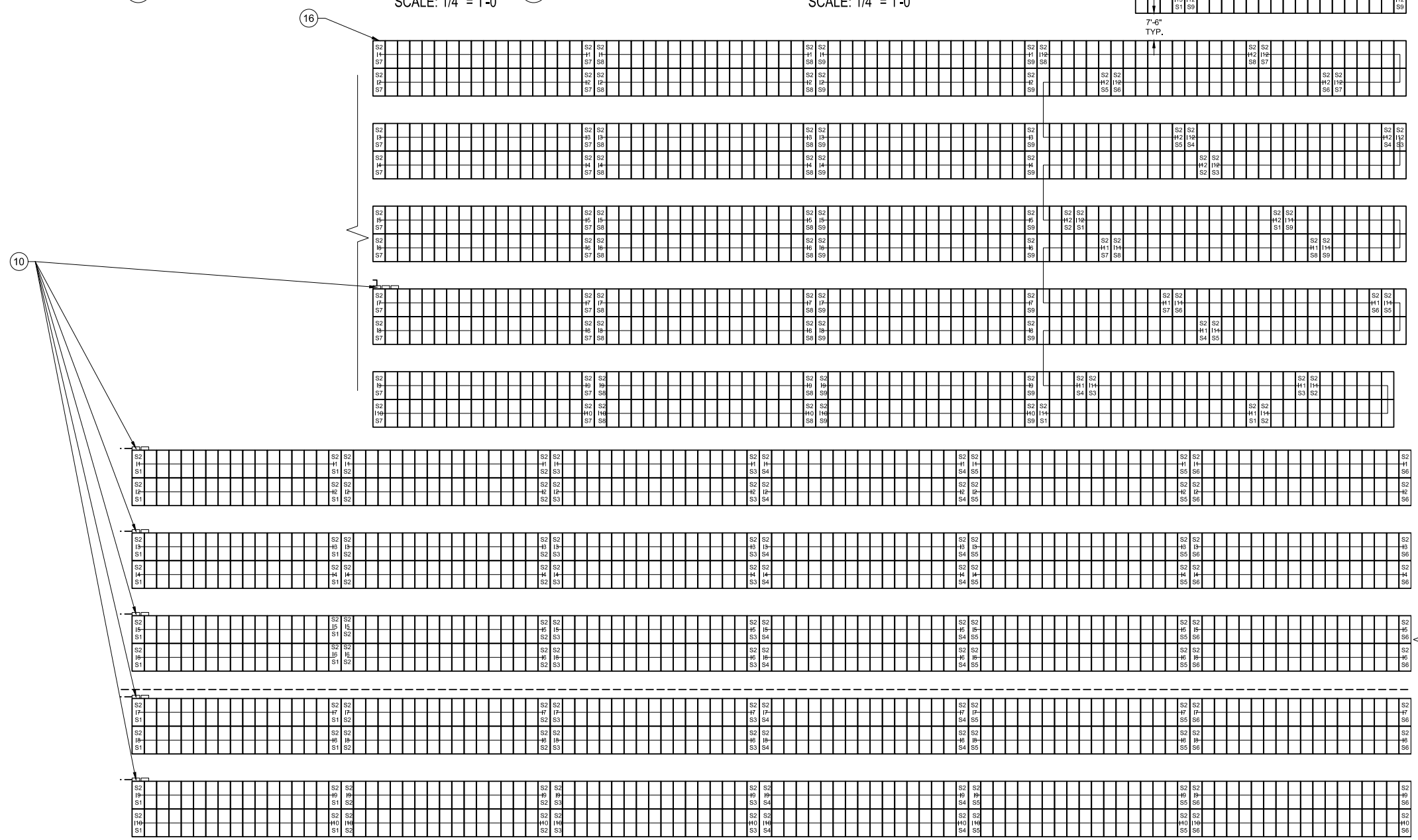
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FOR WIRE SCHEDULE.
- ⑪ N. 1600A 480Y/277V PV COMBINER SWITCHGEAR  
W/ RPU METER SOCKET.  
SYSTEM DISCONNECT 2 OF 2.
- ⑫ N. SCA60TL-D0/US-480 PV INVERTERS.  
OUTDOOR RATED W/INTEGRATED DC & AC  
DISCONNECTS. ARRAY MOUNTED.

- ⑰ N. ARRAY "A". 4410 MODULES MOUNTED ON  
STRUCTURE.
- ⑱ N. FENCELINE AROUND ARRAY "A". 15'  
CLEARANCE FROM ARRAY.
- ⑳ N. FENCE GATE.



**SYSTEM 2 ELECTRICAL ROOM** SCALE: 1/4" = 1'-0"  
**SYSTEM 2 ELECTRICAL EQUIPMENT** SCALE: 1/4" = 1'-0"



**SYSTEM 2 ARRAY PLAN**  
 SCALE: 1/16" = 1'-0"

### CONTRACTOR

REVEL-ENERGY, INC.  
 2323 MAIN ST.  
 IRVINE, CA 92614  
 CSLB #: 1038433 / A, B, C10, C46  
 (949) 281-7171

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SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ STATE LICENSE NO. 1038433 / A, B, C10, C46

PROJECT LOCATION:  
**WOODSPUR FARMS PV**  
 5220 INDUSTRIAL WAY  
 COACHELLA, CA 92236

ARCH D (24" X 36") PRINT PAPER SIZE

NO.	DATE	DESCRIPTION	ELECT.	STRUC.
	7/27/2021	INITIAL PLAN SET	A.L.	--
	8/18/2021	1ST REVISIONS	A.L.	--
	9/11/2021	1ST CORRECTIONS	A.L.	--
	9/9/2021	2ND REVISIONS	A.L.	--

**SYSTEM INFO:**

TOTAL SYSTEM SIZE: DC STC: 2373.10 KW  
 TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW  
 SOLAR MODULES: (4996) TRINA TSM-475DE15V(I)  
 INVERTER(S): (31) CPS SCA60TL-D0/US-480

SYSTEM (PLANT) 1:  
 SYSTEM SIZE DC STC: 630.80 KW  
 SYSTEM SIZE AC CEC: 581.05 KW  
 SOLAR MODULES: (1328) TRINA TSM-475DE15V(I)  
 INVERTER(S): (8) CPS SCA60TL-D0/US-480

SYSTEM (PLANT) 2:  
 SYSTEM SIZE DC STC: 975.65 KW  
 SYSTEM SIZE AC CEC: 898.70 KW  
 SOLAR MODULES: (2054) TRINA TSM-475DE15V(I)  
 INVERTER(S): (13) CPS SCA60TL-D0/US-480

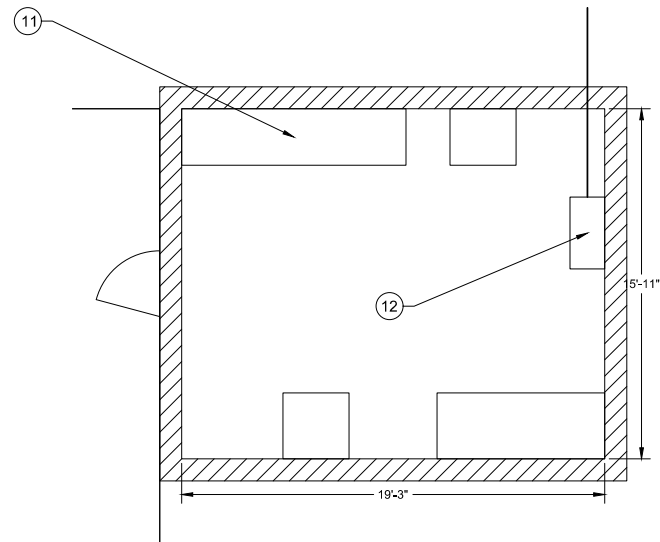
SYSTEM (PLANT) 3:  
 SYSTEM SIZE DC STC: 766.65 KW  
 SYSTEM SIZE AC CEC: 706.18 KW  
 SOLAR MODULES: (1614) TRINA TSM-475DE15V(I)  
 INVERTER(S): (10) CPS SCA60TL-D0/US-480

**DESCRIPTION:**

### SYSTEM 2 PLAN

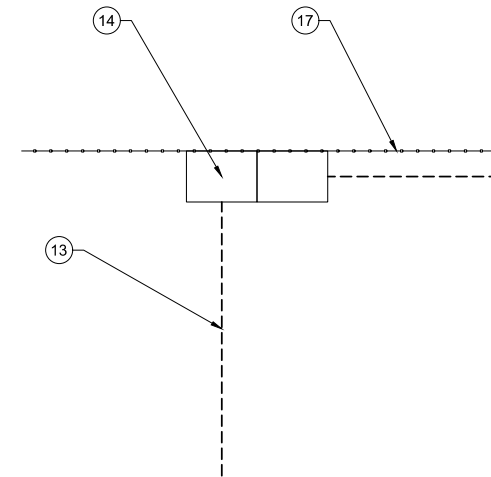
# PV 3.2





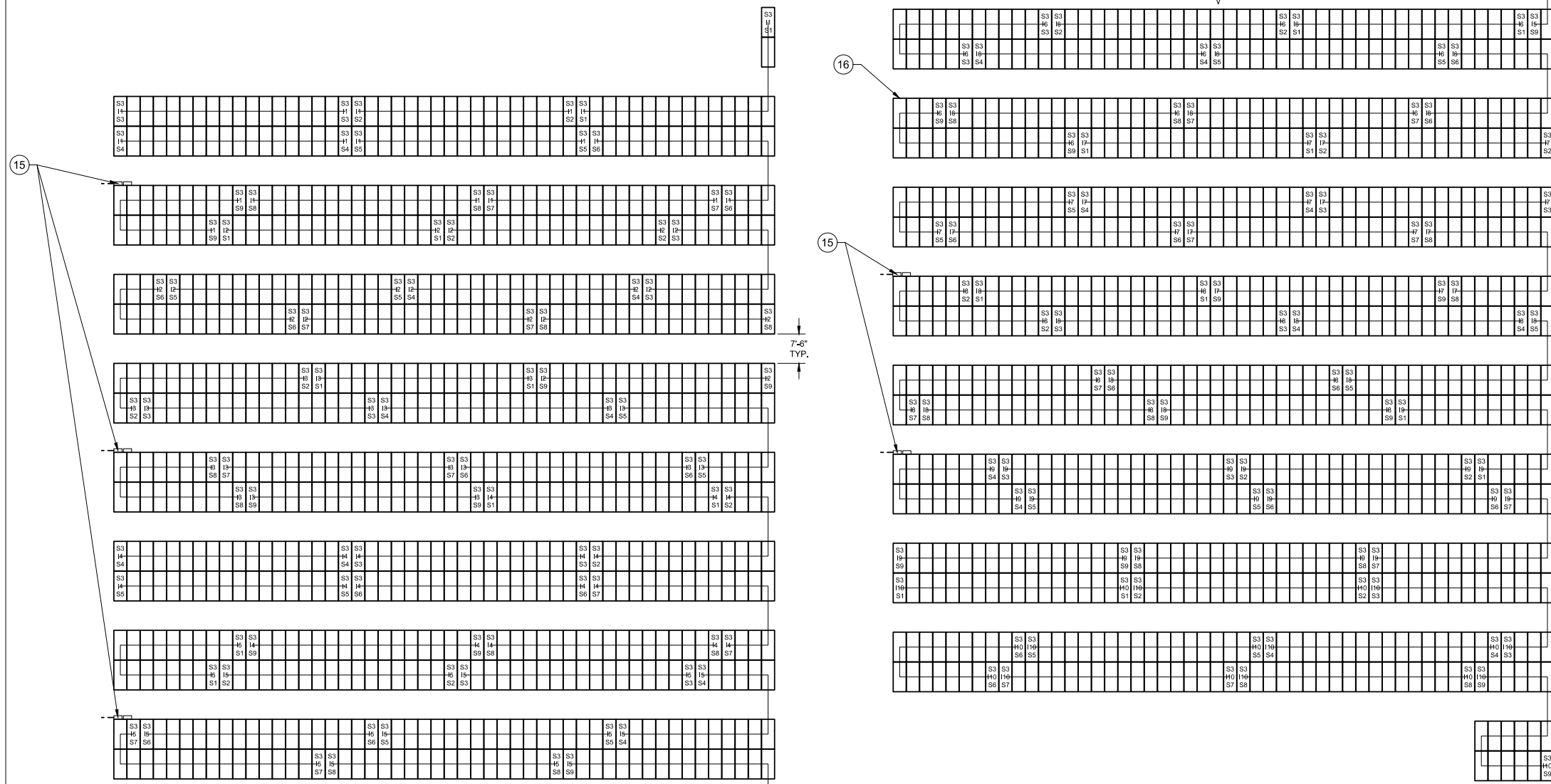
**SYSTEM 3 ELECTRICAL ROOM**

SCALE: 1/4" = 1'-0"



**SYSTEM 3 ELECTRICAL EQUIPMENT**

SCALE: 1/4" = 1'-0"

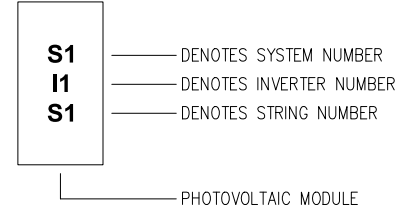


**SYSTEM 3 ARRAY PLAN**

SCALE: 1/16" = 1'-0"

**PLAN LEGEND**

- 13 E. SYSTEM 3 IID METER 5DY3B-200438  
3000A 480Y/277V 3P-4W SWITCHGEAR.  
INTERIOR. PAD MOUNTED.
- 14 N. 1200A 600V 3P/4W FUSED PHOTOVOLTAIC AC  
DISCONNECT. 1000A FUSES. INTERIOR. WALL  
MOUNTED.  
SYSTEM DISCONNECT 1 OF 2.
- 15 N. UNDERGROUND PVC SCH40. SEE PV4.2 FOR  
WIRE SCHEDULE.
- 16 N. ROOFTOP EMT TO ELECTRICAL ROOM. SEE PV4.2  
FOR WIRE SCHEDULE.
- 17 N. 1200A 480Y/277V PV COMBINER SWITCHGEAR  
W/ RPU METER SOCKET.  
SYSTEM DISCONNECT 2 OF 2.
- 18 N. SCA60TL-DO/US-480 PV INVERTERS.  
OUTDOOR RATED W/INTEGRATED DC & AC  
DISCONNECTS. ARRAY MOUNTED.
- 19 N. ARRAY "A". 4410 MODULES MOUNTED ON  
STRUCTURE.
- 20 N. FENCELINE AROUND ARRAY "A". 15'  
CLEARANCE FROM ARRAY.
- 21 N. FENCE GATE.



**CONTRACTOR**

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SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ STATE LICENSE NO. 1038433 / A, B, C10, C46

PROJECT LOCATION:  
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ARCH D (24" X 36") PRINT PAPER SIZE

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**SYSTEM INFO:**  
TOTAL SYSTEM SIZE: DC STC: 2373.10 KW  
TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW  
SOLAR MODULES: (4996) TRINA TSM-475DE15V(I)  
INVERTER(S): (31) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 1:  
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SYSTEM SIZE AC CEC: 581.05 KW  
SOLAR MODULES: (1328) TRINA TSM-475DE15V(I)  
INVERTER(S): (8) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 2:  
SYSTEM SIZE DC STC: 975.65 KW  
SYSTEM SIZE AC CEC: 898.70 KW  
SOLAR MODULES: (2054) TRINA TSM-475DE15V(I)  
INVERTER(S): (13) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 3:  
SYSTEM SIZE DC STC: 766.65 KW  
SYSTEM SIZE AC CEC: 706.18 KW  
SOLAR MODULES: (1614) TRINA TSM-475DE15V(I)  
INVERTER(S): (10) CPS SCA60TL-DO/US-480

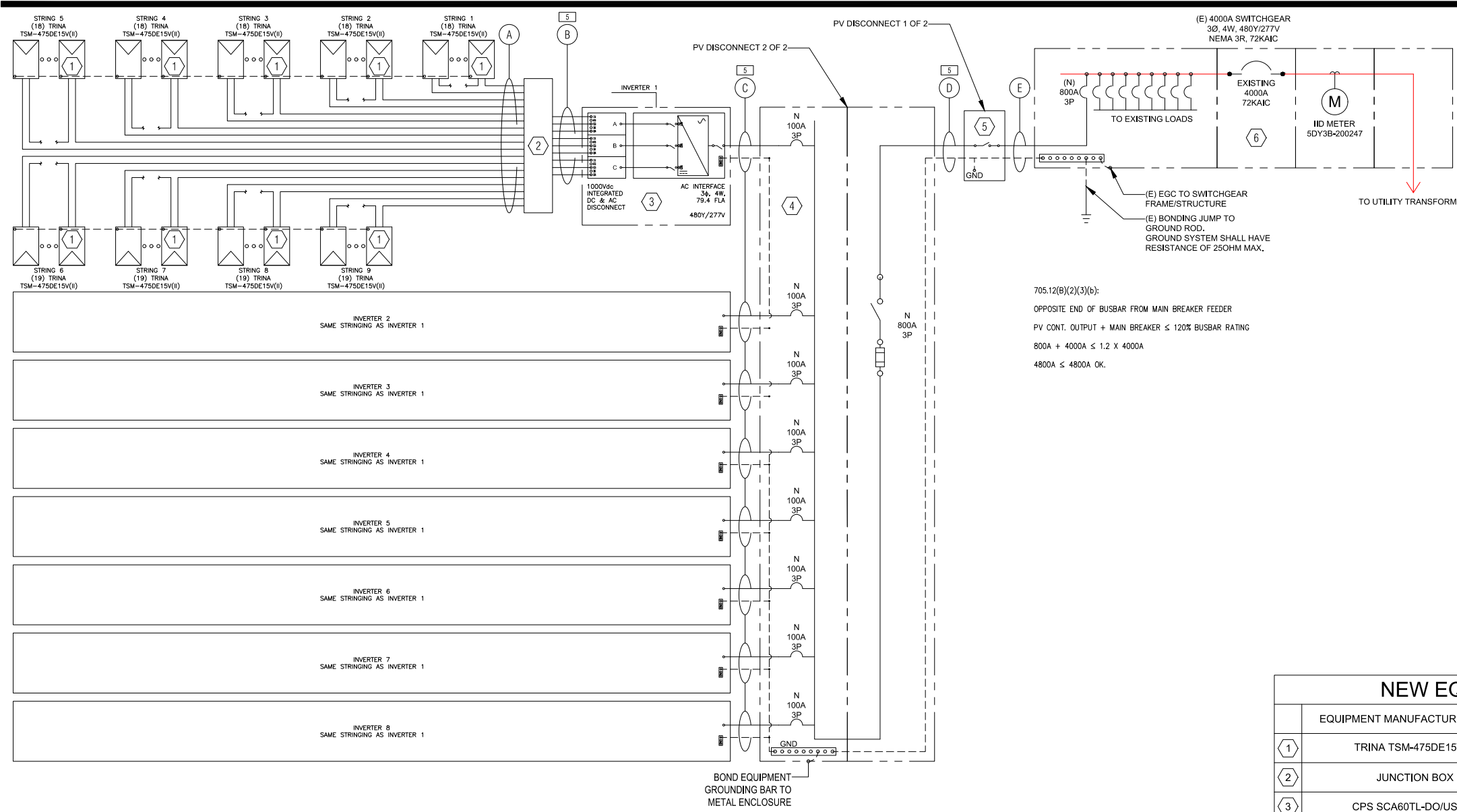
**DESCRIPTION:**

**SYSTEM 3 PLAN**

**PV 3.3**







### EQUIPMENT NOTES

- PHOTOVOLTAIC MODULES INCLUDE #12 AWG OUTDOOR RATED MC4 CONNECTORS FOR MODULE INTERCONNECTION. DO NOT REMOVE THE QUICK CONNECTS, OTHERWISE THE MODULE WARRANTY AND THE UL LISTING WILL BE INVALIDATED.
- #6 AWG BARE COPPER GROUND WILL BE USED AS EQUIPMENT GROUND FOR THE RACKING. USE MODULE GROUNDING METHODS PER MANUFACTURERS INSTALLATION REQUIREMENTS. THE MODULE EQUIPMENT GROUND SHALL TERMINATE AT THE INVERTER CABINET.
- INVERTERS NEMA 3R RATED WITH UL 1741-SA LISTING INCLUDING INTERNAL ANTI-ISLANDING PROTECTION FEATURES WITH CA RULE 21 COMPLIANCE. UL1741 LISTING INCLUDES COMPLIANCE WITH IEEE1547 FOR INTERCONNECTION SYSTEM AND TEST REQUIREMENTS AND THE NATIONAL ELECTRIC CODE. TIED TO EXISTING FACILITY GROUND. INVERTER HAS INTERNAL DC DISCONNECT MEANS, FUSED AT 20A PER POLE. INVERTER IS U.L. LISTED AS A UNIT. UNIT IS EQUIPPED WITH UL1741 APPROVED GROUND FAULT DETECTION DEVICE THAT MEETS NEC 250.122 REQUIREMENTS FOR EQUIPMENT GROUNDING. NOTE: SEE ATTACHED CUTSHEETS FOR DETAILS.
- PER NEC 250.53(A)(2), A SINGLE ROD, PIPE OR PLATE ELECTRODE SHALL BE SUPPLEMENTED BY AN ADDITIONAL ELECTRODE OF TYPE SPECIFIED IN 250.52(A)(2) THROUGH (A)(8) SPACED NO LESS THAN 6FT APART. EXCEPTION, IF A SINGLE ROD, PIPE OR PLATE GROUNDING ELECTRODE HAS A RESISTANCE TO EARTH OF 25 OHMS OR LESS, THE SUPPLEMENTAL ELECTRODE SHALL NOT BE REQUIRED.
- ALL UNDERGROUND CONDUIT IS TO BE SCH40 PVC.

\*SEE PV 5 FOR GROUNDING DETAILS\*

### NEW EQUIPMENT SCHEDULE

	EQUIPMENT MANUFACTURER/MODEL	EQUIPMENT DESCRIPTION
1	TRINA TSM-475DE15V(II)	TRINA SOLAR 475W PV MODULE
2	JUNCTION BOX	NEMA 3R JUNCTION BOX
3	CPS SCA60TL-DO/US-480	CPS 60KW INVERTER W/ INTEGRATED DC & AC DISCONNECTS
4	PV COMBINER SWITCHGEAR	800A BUSBAR, 800A DISCONNECT, 480Y/277V, 3φ, 4W, 42KAIC
5	AC DISCONNECT SWITCH	800A, NONFUSED, 480Y/277V, 3φ, 4W, VIEWABLE, LOCKABLE
6	EXISTING MAIN SERVICE PANEL	4000A BUSBAR, 4000A DISCONNECT, 480Y/277V, 3φ, 4W, 72KAIC

FAULT POINT	FAULT OR TRANSFORMER	PHASE	FAULT POINT	SOURCE I <sub>SC</sub> (AMPS)	FEEDER CONDUIT TYPE	# OF PHASES	FEEDER MATERIAL CU or AL	C/VOL L/F	L-L VOLTAGE	CIRCUIT LENGTH	LOAD POWER FACTOR	CIRCUIT I LOAD	CONDUCTOR RESISTANCE	CONDUCTOR REACTANCE	f	M	FAULT CURRENT	FAULT POINT
1	POD TO AC DISCONNECT	3	0	72000	M	3	Set(s) of 500 kcmil	CU	18175.59	480	10	0.97	0.000548	0.000048	0.948	0.98	68726	1
2	AC DISCONNECT TO PV COMBINER	3	1	66756	M	3	Set(s) of 300 kcmil	CU	18175.59	480	400	0.97	0.000910	0.000051	1.819	0.95	24378	2
3	PV COMBINER TO INVERTER	3	2	24378	M	1	Set(s) of 3	CU	4774.00	480	20	0.97	0.000260	0.000009	0.461	0.88	16680	3

INVERTER	String #	MOD STRING	Current per string	VOLTAGE DROP	Wire size	Conductor	Wire Length One Way	Total Voltage	Percent V <sub>OC</sub>
1	1 thru 6	18	13.80	833.99	#10	1.24	675	1.674	23.101
1	7 thru 9	19	14.80	880.32	#10	1.24	675	1.874	23.101
2 thru 8	1 thru 5	18	13.80	833.99	#10	1.24	675	1.674	23.101
2 thru 8	6 thru 9	19	13.80	880.32	#10	1.24	675	1.674	23.101

Inverter Manufacturer:	Chint Power Systems	Max. String Voltage Using -0.25%°C temp. factor of module = 880.4V
Inverter Type:	CPS SCA60TL-DO/US-480	Max. String Voltage Using 1.14 temp. factor of module = 933.6V
Input (DC):	MAX used Power input per channel: 33000 W	Output (AC):
Module Compatibility:	Module Manufacturer: Trina Solar	Peak output power: 66000 VA
Maximum Input DC Voltage:	1000 V	Maximum Continuous Output Power: 60000 VA
Maximum Amp Isc:	68 per MPPT	Nominal output voltage: 480 V
		Nominal output current: 79.4 A

Module Manufacturer:	Trina Solar	Output (AC):
Module Model:	TSM-475DE15V(II)	Voc: 43.1 Vdc
Parameters (DC):	Local Temperature (°C): -5°C to 44°C	STC Power: 475 W
Coldest Day Voc:	46.33 V	PTC Power: 444.2 W
Warmest Day Vmp:	31.58 V	Max System Voltage: 1500 V
Maximum Fuse Rating:	25 A	Voc Temp. Coeff: -0.25 %/°C

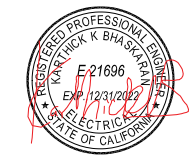
CABLE	CABLE TYPE	CABLE VOLTAGE RATING (V)	CABLE TEMP RATING	AMBIENT TEMP (°C)	USE AND/OR BUYS: ROOF TO BOTTOM OF CONDUIT	ALLOWED AMBIENT TEMP (°C)	CONDUIT	CONDUIT TYPE	# OF CONDUCTORS PER PHASE	WIRE SIZE	NEUTRAL	GROUND	TOTAL CU CONDUCTORS IN RACEWAY	BASE AMPACITY (A)	DERATING FACTOR FOR CONDUCTORS PER RACEWAY (NEC 310.15(B)(2)(a))	DERATING FACTOR FOR AMBIENT TEMPERATURE (NEC 310.15(B)(2)(a))	OVERALL DERATING FACTOR	DEPATED AMPACITY (A)	CIRCUIT LOAD (A)	CIRCUIT LOAD (A) (156%DC, 125%AC)	MINIMUM COPD PER LOAD	MAXIMUM COPD PER DERATED CABLE	EST. DISTANCE	VOLTAGE DROP %VD	TOTAL V.D. %VD/CUM
A	PV WIRE	1000	90°C (194°F)	44	NOT ON ROOF	44	N/A	FREELAIR	1	Set(s) of #10	N/A	#8	18	55	50%	43.500%	23.9	13.8	17.25	20	500	500	SEE DC VD DROP		
B	THMN-2 (CU)	600	90°C (194°F)	44	NOT ON ROOF	44	1-1/4"	EMT	1	Set(s) of #10	N/A	#8	18	40	50%	43.500%	17.4	13.8	17.25	20	175	175	SEE DC VD DROP		
C	THMN-2 (CU)	600	90°C (194°F)	44	NOT ON ROOF	44	1-1/4"	EMT	1	Set(s) of #3	#3	#8	3	115	100%	87.000%	100.1	79.4	96.25	100	100	25	0.18%	0.18%	
D	THMN-2 (CU)	600	90°C (194°F)	44	ABOVE 78"	44	2-1/2"	EMT	3	Set(s) of 300KCMIL	300KCMIL	1/0	3	960	100%	87.000%	835.2	794.00	800	800	400	400	1.38%	1.55%	
E	THMN-2 (CU)	600	90°C (194°F)	44	NOT ON ROOF	44	2-1/2"	EMT	3	Set(s) of 300KCMIL	300KCMIL	1/0	3	960	100%	87.000%	835.2	794.00	800	800	400	400	10	0.03%	1.59%

### CONTRACTOR

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**SYSTEM INFO:**

TOTAL SYSTEM SIZE: DC STC: 2373.10 KW  
TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW  
SOLAR MODULES: (4996) TRINA TSM-475DE15V(II)  
INVERTER(S): (31) CPS SCA60TL-DO/US-480

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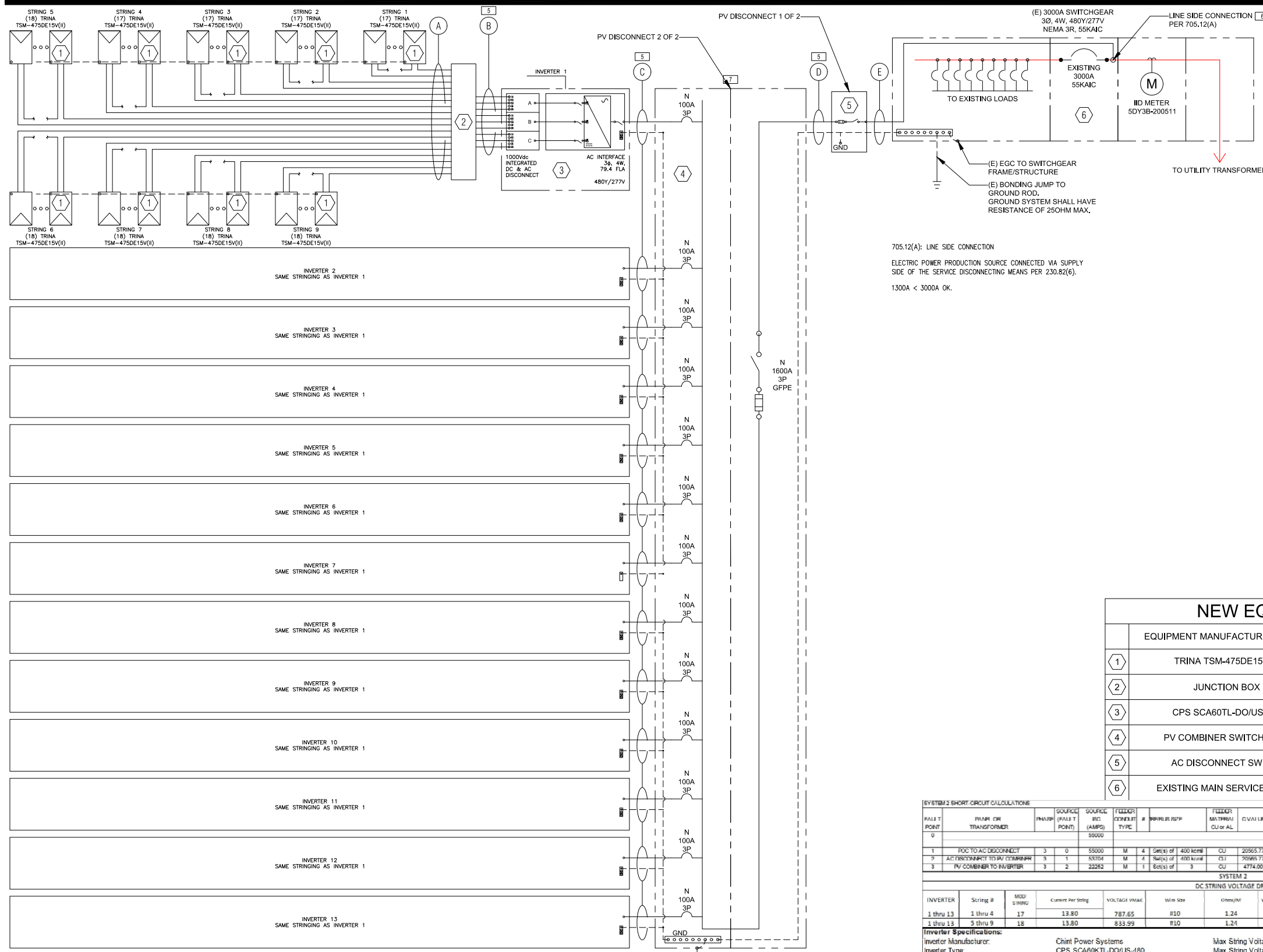
SYSTEM (PLANT) 2:  
SYSTEM SIZE DC STC: 975.65 KW  
SYSTEM SIZE AC CEC: 898.70 KW  
SOLAR MODULES: (2054) TRINA TSM-475DE15V(II)  
INVERTER(S): (13) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 3:  
SYSTEM SIZE DC STC: 766.65 KW  
SYSTEM SIZE AC CEC: 706.18 KW  
SOLAR MODULES: (1614) TRINA TSM-475DE15V(II)  
INVERTER(S): (10) CPS SCA60TL-DO/US-480

### DESCRIPTION:

### SYSTEM 1 SLD

# PV 4.0



### EQUIPMENT NOTES

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- ALL UNDERGROUND CONDUIT IS TO BE SCH40 PVC.
- ANY ALTERATIONS TO THE EXISTING MAIN SWITCHGEAR'S MECHANICAL/ELECTRICAL CHARACTERISTICS REQUIRES A THIRD PARTY SITE EVALUATION TO RE-CERTIFY THE SWITCHGEAR TO UL STANDARDS.
- GROUND FAULT PROTECTION WILL BE PROVIDED PER 230.95.

### CONTRACTOR

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#### SYSTEM INFO:

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 SYSTEM SIZE AC CEC: 706.18 KW  
 SOLAR MODULES: (1614) TRINA TSM-475DE15V(II)  
 INVERTER(S): (10) CPS SCA60TL-DO/US-480

#### DESCRIPTION:

### SYSTEM 2 SLD

### NEW EQUIPMENT SCHEDULE

NO.	EQUIPMENT MANUFACTURER/MODEL	EQUIPMENT DESCRIPTION
1	TRINA TSM-475DE15V(II)	TRINA SOLAR 475W PV MODULE
2	JUNCTION BOX	NEMA 3R JUNCTION BOX
3	CPS SCA60TL-DO/US-480	CPS 60KW INVERTER W/ INTEGRATED DC & AC DISCONNECTS
4	PV COMBINER SWITCHGEAR	1600A BUSBAR, 1600A DISCONNECT, 480Y/277V, 3φ, 4W, 42KAIC
5	AC DISCONNECT SWITCH	1600A, 1600A FUSES, 480Y/277V, 3φ, 4W, VIEWABLE, LOCKABLE, 55KAIC
6	EXISTING MAIN SERVICE PANEL	3000A BUSBAR, 3000A DISCONNECT, 480Y/277V, 3φ, 4W, 55KAIC

FAULT POINT	PHASE OR TRANSFORMER	PHASE	FAULT POINT	SOURCE RSD (AMPS)	FEEDER CONDUIT TYPE	#	PERMISSIBLE R/F	FEEDER MATERIAL	C/WAVE	VOL. TR.	L/L	CIRCUIT LENGTH	LOAD FACTOR (%)	CIRCUIT BREAKER	CONDUCTOR R	CONDUCTOR X	F	M	FAULT CURRENT	FAULT POINT
0				55000															55000	0
1	POC TO AC DISCONNECT	3	0	55000	M	4	See(s) of 400 kcmil	CU	20565.77	480	10	0.97	1032.2	0.000035	0.000035	0.024	0.96	53704	1	
2	AC DISCONNECT TO PV COMBINER	3	1	53704	M	4	See(s) of 400 kcmil	CU	20565.77	480	800	0.97	1032.2	0.000035	0.000048	1.413	0.41	29990	2	
3	PV COMBINER TO INVERTER	3	2	2282	M	1	See(s) of 3	CU	2774.00	480	18	0.97	79.4	0.000260	0.000095	0.262	0.85	17189	3	

INVERTER	String #	MOD STRING	Current Per String	VOLTAGE VMAX	Wire Size	Ohms/ft	Wire Length One Way	Total Ohms	Base: VD	%VD
1 thru 13	1 thru 4	17	13.80	787.65	#10	1.24	615	1.525	21.048	2.672%
1 thru 13	5 thru 9	18	13.80	833.99	#10	1.24	615	1.525	21.048	2.524%

**Inverter Specifications:**  
 Inverter Manufacturer: Chint Power Systems  
 Inverter Type: CPS SCA60TL-DO/US-480  
 Max String Voltage Using 0.25%/°C temp. factor of module = 834V  
 Max String Voltage Using 1.1% temp. factor of module = 881.5V

Input (DC):	Output (AC):
MAX used Power input per channel: 33000 W	Peak output power: 66000 VA
Module Compatibility: 60000 V/A	CEC Efficiency: 98.5 %
Maximum Input DC Voltage: 1000 V	Maximum Continuous Output Power: 60000 VA
Maximum Amp Isc: 68 per MPPT	Nominal output voltage: 480 V
	Nominal output current: 79.4 A
	Max Operating Current: 79.4A-3Phase

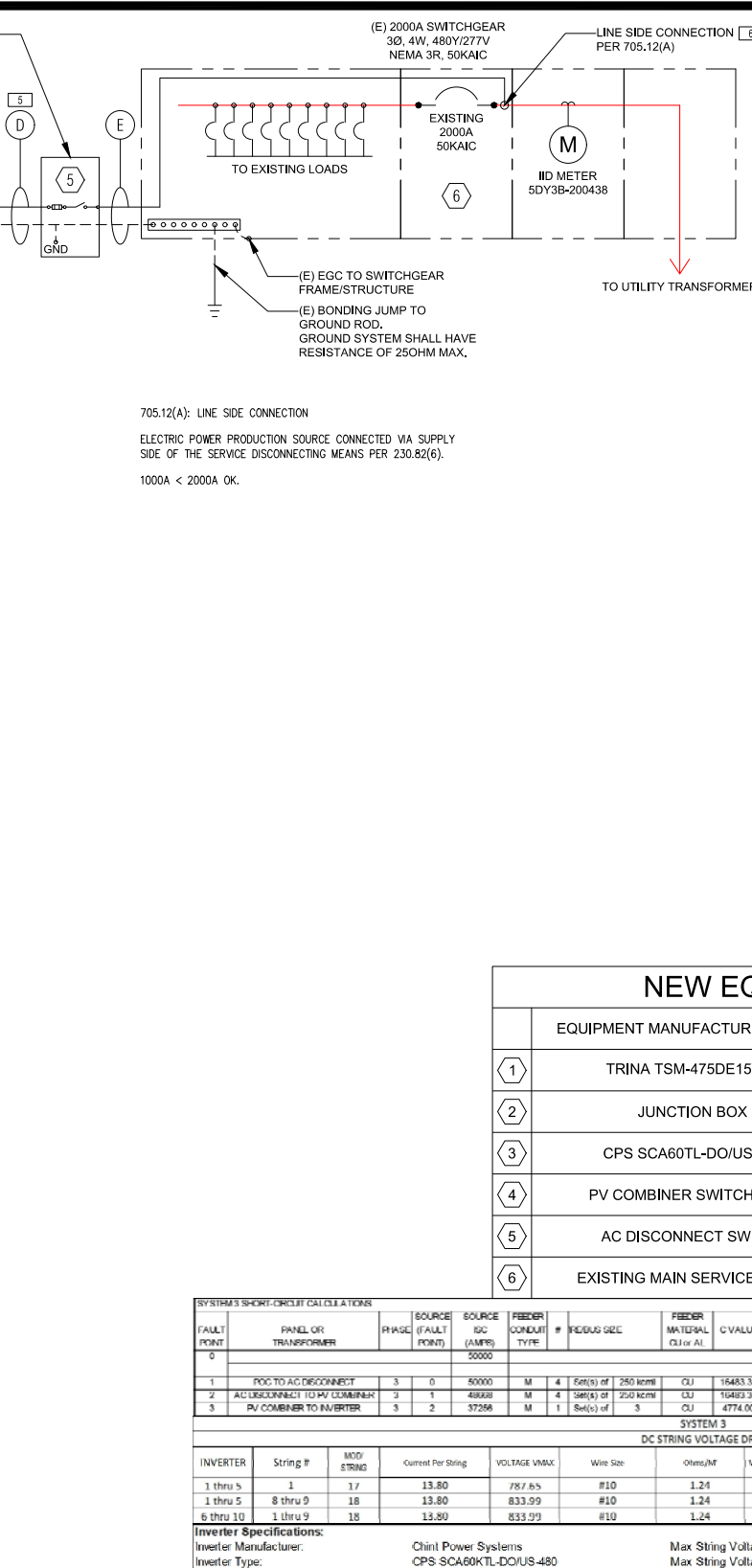
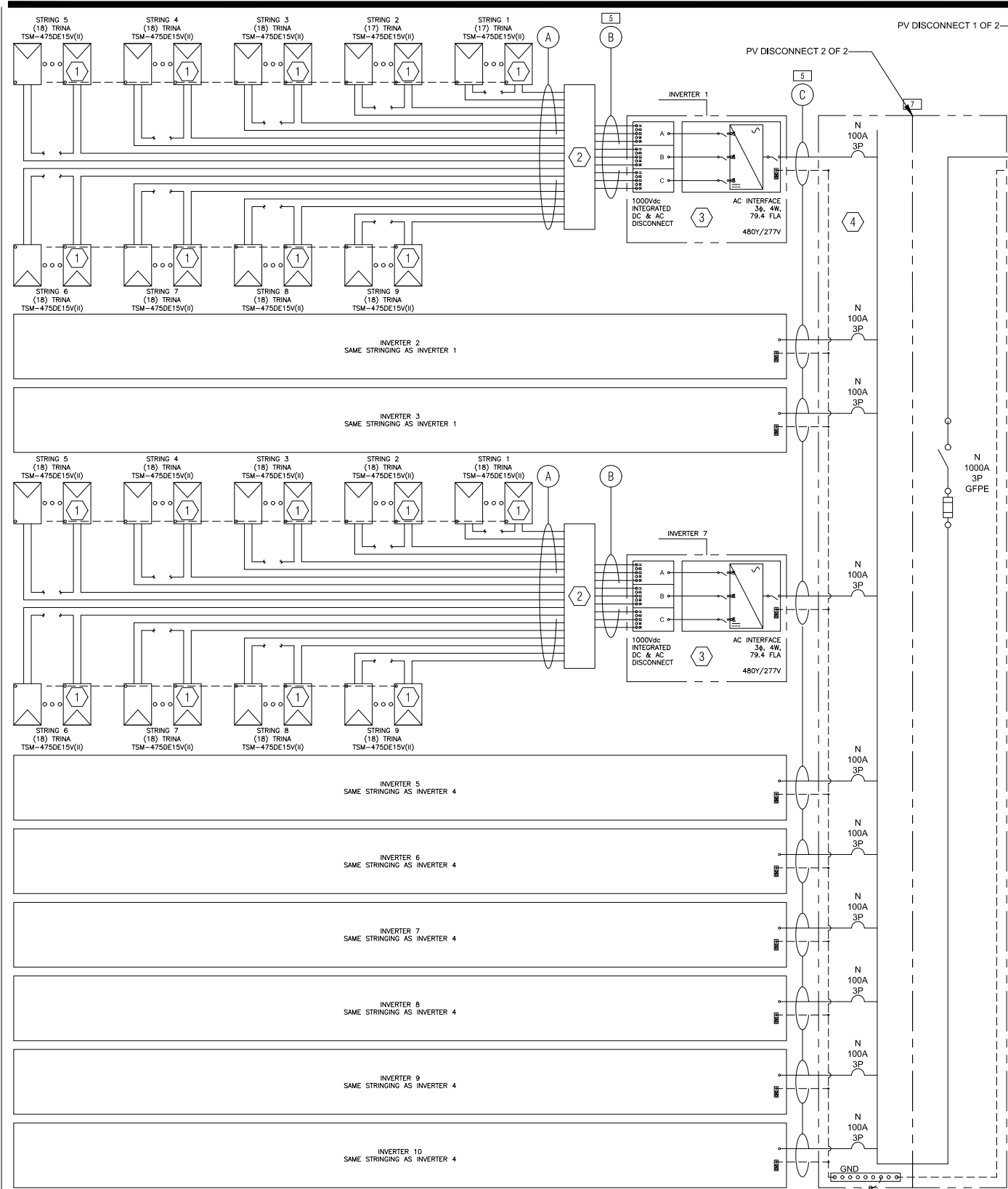
**Module Specifications:**  
 Module Manufacturer: Trina Solar  
 Module Model: TSM-475DE15V(II)

Parameters (DC):	Output (AC):
Local Temperature (°C): -5°C to 44°C	Voc: 43.1 Vdc
Cooltest Day Voc: 46.33 V	Vmp: 38.2 Vdc
Warmest Day Vmp: 31.58 V	Isc: 13.8 A
Maximum Fuse Rating: 25 A	Imp: 13.12 A

CABLE	CABLE TYPE	CABLE VOLTAGE RATING (V)	CABLE TEMP RATING	AMBIENT TEMP (°C)	DISTANCE ABOVE ROOF TO BOTTOM OF CONDUIT	ADJUSTED AMBIENT TEMP (°C)	CONDUIT TYPE	# OF CONDUCTORS PER PHASE	WIREBUNDLE SIZE	NEUTRAL	GROUND	TOTAL OC CONDUCTORS IN RACEWAY	BASE AMPACITY (A)	DERATING FACTOR FOR CONDUCTORS PER RACEWAY (NEC 310.15(B)(3)(a))	DERATING FACTOR FOR AMBIENT TEMPERATURE (NEC 310.15(B)(2)(a))	OVERALL DERATING FACTOR	DERATED AMPACITY (A)	CIRCUIT LOAD (A)	CIRCUIT LOAD (A) (156%DC, 125%AC)	MINIMUM COPD PER LOAD	MAXIMUM COPD PER DERATED CABLE	EST. DISTANCE FT	VOLTAGE DROP %VD	TOTAL V.D. %VD/CUM
A	PV-WIRE	1000	90°C (194°F) Cu	44	NOT ON ROOF	44	NA	FREE AIR	1	Set(s) of #10	NA	#6	55	50%	87%	43.500%	23.9	13.8	17.25	20	20	500		SEE DC VD/CUM
B	XHHW-2	1000	90°C (194°F) Cu	44	NOT ON ROOF	44	1-1/4" ENT	1	Set(s) of #10	NA	#8	18	40	50%	87%	43.500%	17.4	13.8	17.25	20	20	115	0.11%	0.11%
C	THHN-2 (Cu)	600	90°C (194°F) Cu	44	NOT ON ROOF	44	1-1/4" ENT	1	Set(s) of #3	IR	#8	3	115	100%	87%	87.000%	100.1	75.4	58.25	150	150	15	0.11%	0.11%
D	THHN-2 (Cu)	600	90°C (194°F) Cu	44	ABOVE 78"	44	3" ENT	4	Set(s) of 400KCMIL	400KCMIL	4/0	3	1520	100%	87%	87.000%	1322.4	1032.2	1220.25	1600	1200	600	1.96%	1.96%
E	THHN-2 (Cu)	600	90°C (194°F) Cu	44	NOT ON ROOF	44	3" ENT	4	Set(s) of 400KCMIL	400KCMIL	4/0	3	1520	100%	87%	87.000%	1322.4	1032.2	1220.25	1600	1200	10	0.63%	2.10%

\*SEE PV 5 FOR GROUNDING DETAILS\*

# PV 4.1



### EQUIPMENT NOTES

- PHOTOVOLTAIC MODULES INCLUDE #12 AWG OUTDOOR RATED MC4 CONNECTORS FOR MODULE INTERCONNECTION. DO NOT REMOVE THE QUICK CONNECTS, OTHERWISE THE MODULE WARRANTY AND THE UL LISTING WILL BE INVALIDATED.
- #6 AWG BARE COPPER GROUND WILL BE USED AS EQUIPMENT GROUND FOR THE RACKING. USE MODULE GROUNDING METHODS PER MANUFACTURERS INSTALLATION REQUIREMENTS. THE MODULE EQUIPMENT GROUND SHALL TERMINATE AT THE INVERTER CABINET.
- INVERTERS NEMA 3R RATED WITH UL 1741-SA LISTING INCLUDING INTERNAL ANTI-ISLANDING PROTECTION FEATURES WITH CA RULE 21 COMPLIANCE. UL1741 LISTING INCLUDES COMPLIANCE WITH IEEE1547 FOR INTERCONNECTION SYSTEM AND TEST REQUIREMENTS AND THE NATIONAL ELECTRIC CODE, TIED TO EXISTING FACILITY GROUND. INVERTER HAS INTERNAL DC DISCONNECT MEANS, FUSED AT 20A PER POLE. INVERTER IS U.L. LISTED AS A UNIT. UNIT IS EQUIPPED WITH UL1741 APPROVED GROUND FAULT DETECTION DEVICE THAT MEETS NEC 250.122 REQUIREMENTS FOR EQUIPMENT GROUNDING. NOTE: SEE ATTACHED CUTSHEETS FOR DETAILS.
- PER NEC 250.53(A)(2), A SINGLE ROD, PIPE OR PLATE ELECTRODE SHALL BE SUPPLEMENTED BY AN ADDITIONAL ELECTRODE OF TYPE SPECIFIED IN 250.52(A)(2) THROUGH (A)(8) SPACED NO LESS THAN 6FT APART. EXCEPTION, IF A SINGLE ROD, PIPE OR PLATE GROUNDING ELECTRODE HAS A RESISTANCE TO EARTH OF 25 OHMS OR LESS, THE SUPPLEMENTAL ELECTRODE SHALL NOT BE REQUIRED.
- ALL UNDERGROUND CONDUIT IS TO BE SCH40 PVC.
- ANY ALTERATIONS TO THE EXISTING MAIN SWITCHGEAR'S MECHANICAL/ELECTRICAL CHARACTERISTICS REQUIRES A THIRD PARTY SITE EVALUATION TO RE-CERTIFY THE SWITCHGEAR TO UL STANDARDS.
- GROUND FAULT PROTECTION WILL BE PROVIDED PER 230.95.

### CONTRACTOR

**REVEL-ENERGY, INC.**  
 2323 MAIN ST.  
 IRVINE, CA 92614  
 CSLB #: 1038433 / A, B, C10, C46  
 (949) 281-7171

I HEREBY CERTIFY THAT THE WORK PROPOSED TO BE DONE ON THESE PLANS IS IN CONFORMANCE WITH ALL CODES AND ORDINANCES OF THE A.H.J. OF CITY OF COACHELLA AND FURTHER, IF OMISSIONS OR ERRORS ARE DISCOVERED, I UNDERSTAND THAT THE WORK PERFORMED WILL BE REQUIRED TO COMPLY WITH THE CODES AND ORDINANCES OF THE A.H.J. OF CITY OF COACHELLA PRIOR TO FINAL BUILDING INSPECTION.

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ STATE LICENSE NO. \_\_\_\_\_  
 1038433 / A, B, C10, C46



PROJECT LOCATION:  
**WOODSPUR FARMS PV**  
 5220 INDUSTRIAL WAY  
 COACHELLA, CA 92236

ARCH D (24" X 36") PRINT PAPER SIZE

NO.	DATE	DESCRIPTION	ELECT.	STRUC.
	7/27/2021	INITIAL PLAN SET	A.L.	--
	8/18/2021	1ST REVISIONS	A.L.	--
	9/11/2021	1ST CORRECTIONS	A.L.	--
	9/9/2021	2ND REVISIONS	A.L.	--

#### SYSTEM INFO:

TOTAL SYSTEM SIZE: DC STC: 2373.10 KW  
 TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW  
 SOLAR MODULES: (4996) TRINA TSM-475DE15V(II)  
 INVERTER(S): (31) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 1:  
 SYSTEM SIZE DC STC: 630.80 KW  
 SYSTEM SIZE AC CEC: 581.05 KW  
 SOLAR MODULES: (1328) TRINA TSM-475DE15V(II)  
 INVERTER(S): (8) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 2:  
 SYSTEM SIZE DC STC: 975.65 KW  
 SYSTEM SIZE AC CEC: 898.70 KW  
 SOLAR MODULES: (2054) TRINA TSM-475DE15V(II)  
 INVERTER(S): (13) CPS SCA60TL-DO/US-480

SYSTEM (PLANT) 3:  
 SYSTEM SIZE DC STC: 766.65 KW  
 SYSTEM SIZE AC CEC: 706.18 KW  
 SOLAR MODULES: (1614) TRINA TSM-475DE15V(II)  
 INVERTER(S): (10) CPS SCA60TL-DO/US-480

#### DESCRIPTION:

### SYSTEM 3 SLD

### NEW EQUIPMENT SCHEDULE

	EQUIPMENT MANUFACTURER/MODEL	EQUIPMENT DESCRIPTION
1	TRINA TSM-475DE15V(II)	TRINA SOLAR 475W PV MODULE
2	JUNCTION BOX	NEMA 3R JUNCTION BOX
3	CPS SCA60TL-DO/US-480	CPS 60KW INVERTER W/ INTEGRATED DC & AC DISCONNECTS
4	PV COMBINER SWITCHGEAR	1200A BUSBAR, 1000A DISCONNECT, 480Y/277V, 3Φ, 4W, 42KAIC
5	AC DISCONNECT SWITCH	1200A, 1000A FUSES, 480Y/277V, 3Φ, 4W, VIEWABLE, LOCKABLE, 42KAIC
6	EXISTING MAIN SERVICE PANEL	2000A BUSBAR, 2000A DISCONNECT, 480Y/277V, 3Φ, 4W, 50KAIC

FAULT POINT	PANEL OR TRANSFORMER	PHASE	SOURCE (FAULT POINT)	SOURCE ISC (AMPS)	FIBER #	FIBER TYPE	# OF BUS SIZE	FIBER MATERIAL (Cl or Al)	C VALUE	L L (FT)	CIRCUIT LENGTH (FT)	LOAD FACTOR (%)	CIRCUIT LOAD (A)	CONDUCTOR SIZE (AWG)	CONDUCTOR RESISTANCE (Ω)	CONDUCTOR LENGTH (FT)	FAULT CURRENT (A)	FAULT POINT	
0				50000													50000	0	
1	POC TO AC DISCONNECT	3	0	50000	M	4	Set(s) of 250 kcmil	CJ	15483.39	480	10	0.97	1099.2	0.000054	0.000054	0.027	0.97	48668	1
2	AC DISCONNECT TO PV COMBINER	3	1	48666	M	4	Set(s) of 250 kcmil	CJ	15483.39	480	115	0.97	1099.2	0.000054	0.000054	0.308	0.77	37256	2
3	PV COMBINER TO INVERTER	3	2	37256	M	1	Set(s) of 3	CJ	4774.00	480	26	0.97	76.4	0.000050	0.000050	0.704	0.66	21884	3

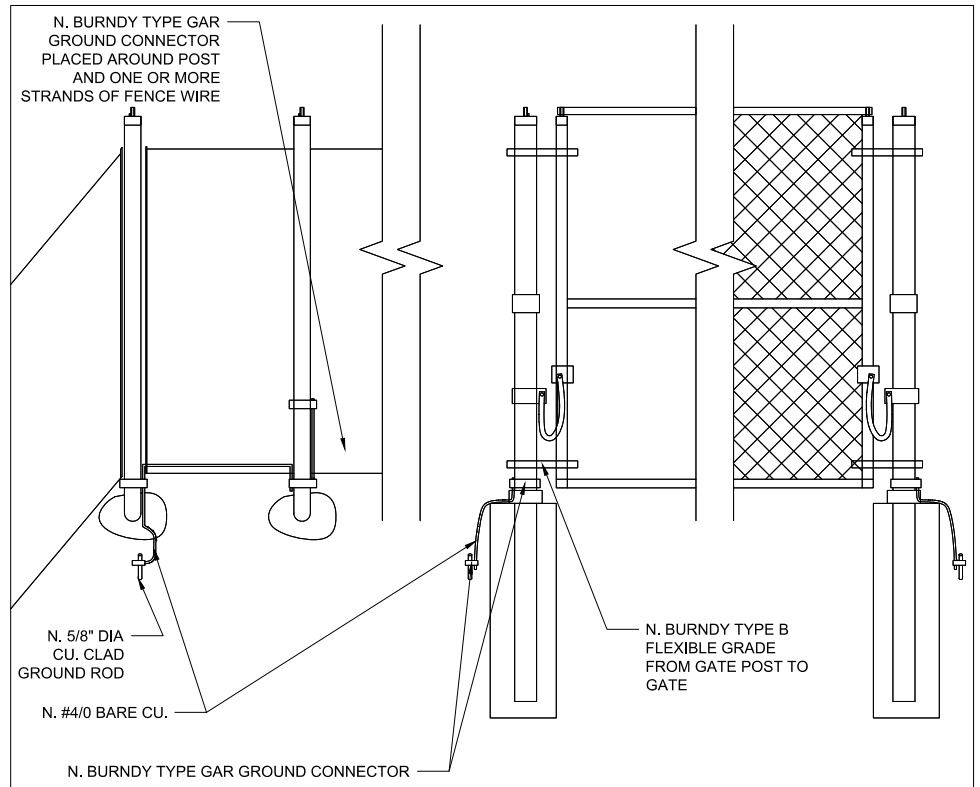
INVERTER	String #	MOD STRING	Current Per String	VOLTAGE VMAX	Wire Size	Ohms/ft	Wire Length One Way	Total Ohms	E-IR	VD	WVD
1	1 thru 5	1	37	13.80	787.85	#10	1.24	665	1.649	2.759	2.889%
	1 thru 5	8 thru 9	18	13.80	833.99	#10	1.24	665	1.649	2.729%	
	6 thru 10	1 thru 9	18	13.80	833.99	#10	1.24	665	1.649	2.729%	

Inverter Specifications:		Chint Power Systems CPS SCA60TL-DO/US-480		Max String Voltage Using -0.25%/°C temp. factor of module = 834V		Max String Voltage Using 1.14 temp. factor of module = 884.5V		
<b>Input (DC):</b>	MAX used Power input per channel:	33000 W		<b>Output (AC):</b>	Peak output power:	66000 VA	CEC Efficiency:	98.5 %
	Module Compatibility:	1000 V			Maximum Continuous Output Power:	60000 VA	Ambient Temperature:	-30°C to +60°C
	Maximum Input DC Voltage:	1000 V			Nominal output voltage:	480 V	Operating Voltage:	480V-3Phase
	Maximum Amp Isc:	60 per MPPT			Nominal output current:	79.4 A	Max. Operating Current:	79.4A-3Phase
<b>Module Specifications:</b>	Module Manufacturer:	Trina Solar						
	Module Model:	TSM-475DE15V(II)						
<b>Parameters (DC):</b>	Local Temperature (°C):	-5°C to 44°C		<b>Output (AC):</b>	Voc:	43.1 Vdc	STC Power:	475 W
	Coldest Day Voc:	46.33 V			Vmp:	36.2 Vdc	PTC Power:	444.2 W
	Warmest Day Vmp:	31.59 V			Isc:	13.8 A	Max System Voltage:	1500 V
	Maximum Fuse Rating:	25 A			Imp:	13.12 A	Voc Temp. Coeff:	-0.25 %/°C

CABLE	CABLE TYPE	CABLE VOLTAGE RATING (V)	CABLE TEMP RATING	AMBIENT TEMP (°C)	DISTANCE ABOVE ROOF TO BOTTOM OF CONDUIT	ADJUSTED AMBIENT TEMP (°C)	CONDUIT TYPE	# OF CONDUCTORS PER PHASE	WIRE/BUS SIZE	NEUTRAL	GROUND	TOTAL CC CONDUCTORS IN RACEWAY	BASE AMPACITY (A)	DERATING FACTOR FOR CONDUCTORS PER RACEWAY	DERATING FACTOR FOR AMBIENT TEMPERATURE	OVERALL DERATING FACTOR	DEPATED AMPACITY (A)	CIRCUIT LOAD (A)	CIRCUIT LOAD (A) (156% IAD, 125% IAC)	MINIMUM OCPD PER LOAD	MAXIMUM OCPD PER DERATED CABLE	EST DISTANCE FT	VOLTAGE DROP %VD	TOTAL V.D. %VD/CUM	
A	PV-WIRE	1000	90°C (194°F) Cu	44	NOT ON ROOF	44	N/A	FREE-AIR	1	Set(s) of #10	N/A	18	55	50%	8%	43.500%	23.9	13.8	17.25	20	20	215		SEE DC VD DROP	
B	20-MV-2	1000	90°C (194°F) Cu	44	NOT ON ROOF	44	1-1/4"	EMT	1	Set(s) of #10	N/A	18	49	50%	8%	43.500%	17.4	13.8	17.25	20	20	450		SEE DC VD DROP	
C	THMN-2 (Cu)	600	90°C (194°F) Cu	44	NOT ON ROOF	44	1-1/4"	EMT	1	Set(s) of #3	#3	20	115	100%	8%	87.000%	100.1	79.4	96.25	100	100	25	0.18%	0.16%	
D	THMN-2 (Cu)	600	90°C (194°F) Cu	44	ABOVE 7/8"	44	2-1/2"	EMT	4	Set(s) of 250KCMIL	250KCMIL	20	3	1160	100%	8%	87.000%	1099.2	794.0	992.50	1000	1000	115	0.44%	0.62%
E	THMN-2 (Cu)	600	90°C (194°F) Cu	44	NOT ON ROOF	44	2-1/2"	EMT	4	Set(s) of 250KCMIL	250KCMIL	20	3	1160	100%	8%	87.000%	1099.2	794.0	992.50	1000	1000	10	0.64%	0.68%

\*SEE PV 5 FOR GROUNDING DETAILS\*

# PV 4.2



- FENCE NOTES:
1. BONDING JUMPERS ARE REQUIRED AT EACH FENCE CORNER AND AT MAXIMUM 160 FT. INTERVALS ALONG THE FENCE.
  2. BONDING JUMPERS ARE REQUIRED ON EACH SIDE OF THE CROSSING WHERE BARE OVERHEAD CONDUCTORS CROSS THE FENCE.
  3. GATES MUST BE BONDED TO THE GATE SUPPORT POST, AND EACH GATE SUPPORT POST MUST BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.
  4. ANY GATE OR OTHER OPENING IN THE FENCE MUST BE BONDED ACROSS THE OPENING BY A BURIED BONDING JUMPER.
  5. THE GROUNDING GRID OR GROUNDING ELECTRODE SYSTEMS SHALL BE EXTENDED TO COVER THE SWING OF ALL GATES.
  6. THE BARBED WIRE STRANDS ABOVE THE FENCE MUST BE BONDED TO THE GROUNDING ELECTRODE SYSTEM.

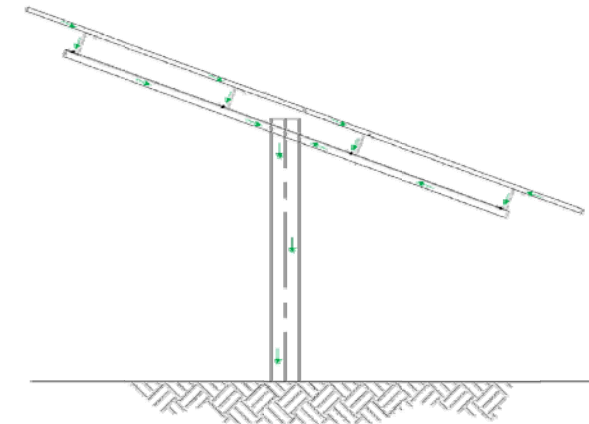
**BONDING PATH**

OMCO Solar's CHOICE™ Racking System may be used to ground and/or mount a PV Module complying with UL 1703 only where the specific Module has been evaluated for grounding and/or mounting in compliance with the included instructions.

It is the Owner's responsibility to ensure that the CHOICE™ Racking System installer complies with NFPA 79 Article 750.

Table I illustrates the grounding path.

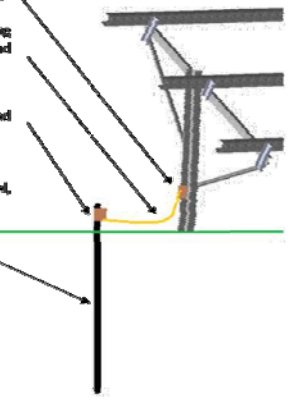
Table I



**GROUNDING FOR JOBSITE WITHOUT DRIVEN POSTS**

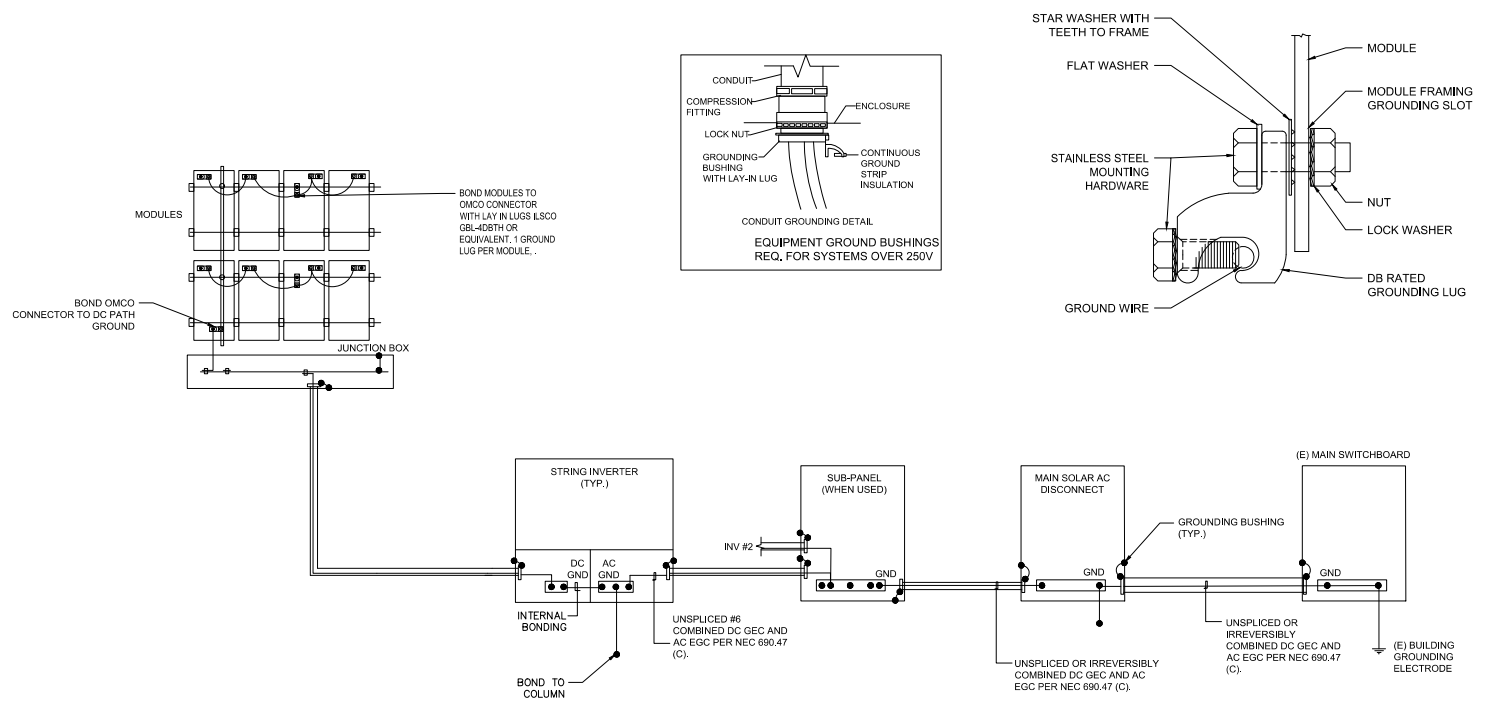
Modules with Posts driven 10 feet into the ground do not require additional grounding measures (NEC 750.52). For table assemblies or jobsites without suitably driven posts, an alternate means of grounding the CHOICE™ Racking System is needed. One recommended method for grounding the CHOICE™ Racking System is as follows:

- Copper ground lug (UL listed, sized to fit GAWG)
- GAWG unjacketed braided copper wire (long enough to span from table assembly to ground rod)
- Copper ground clamp (UL listed, sized to fit rod and wire)
- 10' ground rod, 5/8\" diameter (galvanized steel, UL 467 approved)



OMCO Solar | 01M-280 Version B | CHOICE™ INSTALLATION MANUAL

OMCO Solar | 01M-280 Version B | CHOICE™ INSTALLATION MANUAL



SCREW: SEE CHART	MATERIAL: COPPER, XC7300	TEMPERATURE: OTHER USE SPECIFIED	ENVS. NO.	ILSCO CORP.
CAT. NO.	PLATING: SEE CHART	216, 062, 438	G0977	
MASS: 0.6 LBS	MARKING: SEE CHART	106, 062, 438	SCALE: 3:1	SHEET 1 OF 1
REF: REF: 2.738 1-1/4"	DATE: 7/27/2007	SIZE: A	REV: DESCRIPTION	
STUFFER SH: FORM 12	CELL: 48V		R.1.	

**Cat #: GBL-4DB GBL-4DBT**

PART NUMBER	PLATING	SCREW	SCREW ASSY INSTRUCTIONS	MARKING
G0977/ALU	BR/PT 121P	E1276	FLUSH TO TOP	GBL-4DB TR/PR, GBL-4DBT TR/PR
G0977/STN	E-17N	E1276	FLUSH TO TOP	GBL-4DBT, 1-1/4, 0.6, 0.6
G0977/611	E-17N	F1469	94 FLUSH TO TOP	GBL-4DBT, 1-1/4, 0.6, 0.6

THE INFORMATION CONTAINED WITHIN THIS DOCUMENT IS PROPRIETARY TO ILSCO AND MAY NOT BE DISCLOSED WITHOUT PRIOR WRITTEN CONSENT

**CONTRACTOR**

REVEL-ENERGY, INC.  
2323 MAIN ST.  
IRVINE, CA 92614  
CSLB #: 1038433 / A, B, C10, C46  
(949) 281-7171

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SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ STATE LICENSE NO. 1038433 / A, B, C10, C46

**PROJECT LOCATION:**

WOODSPUR FARMS PV  
5220 INDUSTRIAL WAY  
COACHELLA, CA 92236

ARCH D (24" X 36") PRINT PAPER SIZE

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	9/11/2021	1ST CORRECTIONS	A.L.	--
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**SYSTEM INFO:**

TOTAL SYSTEM SIZE: DC STC: 2373.10 KW  
TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW  
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INVERTER(S): (8) CPS SCA60TL-DO/US-480

**SYSTEM (PLANT) 2:**

SYSTEM SIZE DC STC: 975.65 KW  
SYSTEM SIZE AC CEC: 898.70 KW  
SOLAR MODULES: (2054) TRINA TSM-4750E15V(I)  
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**SYSTEM (PLANT) 3:**

SYSTEM SIZE DC STC: 766.65 KW  
SYSTEM SIZE AC CEC: 706.18 KW  
SOLAR MODULES: (1614) TRINA TSM-4750E15V(I)  
INVERTER(S): (10) CPS SCA60TL-DO/US-480

**DESCRIPTION:**

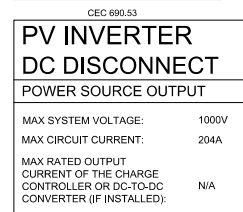
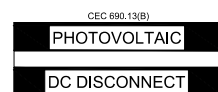
**GROUNDING**

**PV 5**

**1 COMBINER BOX/ CIRCUITS/ CONDUIT/ COMBINER BOX/ ENCLOSURES/ EMT ENCLOSURES**



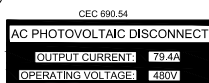
**3 DC DISCONNECT/ BREAKER/ RECOMBINER BOX**



**4 EMT/ DC CONDUIT RACEWAYS**



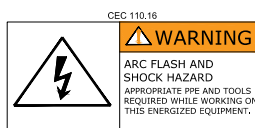
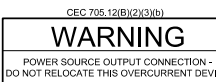
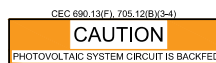
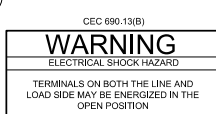
**5 INVERTER**



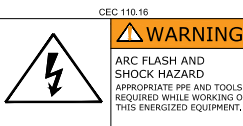
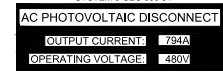
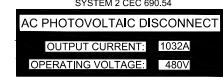
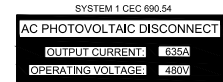
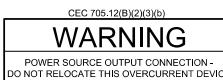
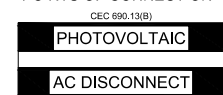
**6 PRODUCTION/ NET METER**



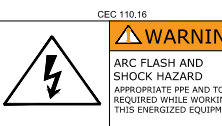
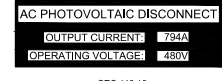
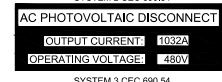
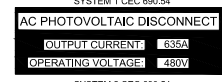
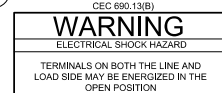
**9 MAIN SERVICE DISCONNECT**



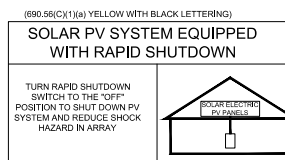
**7 AC DISCONNECT/ BREAKER/ POINTS OF CONNECTION**



**8 BREAKER PANEL/ PULL BOXES**



**10 BY RAPID SHUTDOWN SWITCH (WITHIN 3 FT)**



\*RAPID SHUTDOWN SWITCH CAN BE EITHER THE AC DISCONNECT SWITCH OR A SEPARATE SWITCH. SEE PV 4 FOR TYPE OF RS SWITCH

**SIGNAGE REQUIREMENTS**

**GENERAL FIRE GUIDELINES &**

**MARKING REQTS:**

SEC. 5, MARKINGS, LABELS, AND WARNING SIGNS.  
 A. PURPOSE: PROVIDES EMERGENCY RESPONDERS WITH APPROPRIATE WARNING AND GUIDANCE WITH RESPECT TO ISOLATING THE SOLAR ELECTRICAL SYSTEM. THIS CAN FACILITATE IDENTIFYING ENERGIZED ELECTRICAL LINES THAT CONNECT THE SOLAR PANELS TO THE INVERTER, AS THESE SHOULD NOT BE CUT WHEN VENTING FOR SMOKE REMOVAL.  
 B. MAIN SERVICE DISCONNECT:  
 1. RESIDENTIAL BUILDINGS: THE MARKING MAY BE PLACED WITHIN THE MAIN SERVICE DISCONNECT. THE MARKING SHALL BE PLACED ON THE OUTSIDE COVER IF THE MAIN SERVICE DISCONNECT IS OPERABLE WITH THE SERVICE PANEL CLOSED.  
 2. COMMERCIAL BUILDINGS: THE MARKING SHALL BE PLACED ADJACENT TO THE MAIN SERVICE DISCONNECT CLEARLY VISIBLE FROM THE LOCATION WHERE THE LEVER IS OPERATED.  
 3. MARKINGS: VERBIAGE, FORMAT, AND TYPE OF MATERIAL.  
 A. VERBIAGE: CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED  
 B. FORMAT:  
 (1) WHITE LETTERING ON A RED BACKGROUND.  
 (2) MINIMUM 3/8 INCHES LETTER HEIGHT.  
 (3) ALL LETTERS SHALL BE CAPITALIZED.  
 (4) ARIAL OR SIMILAR FONT, NON-BOLD.  
 C. MATERIAL:  
 (1) REFLECTIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT (USE UL --> 969 AS STANDARD FOR WEATHER RATING). DURABLE ADHESIVE MATERIALS MEET THIS REQUIREMENT.

C. MARKING REQUIREMENTS ON DC CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, DC COMBINERS, AND JUNCTION BOXES:  
 1. MARKINGS: PLACEMENT, VERBIAGE, FORMAT, AND TYPE OF MATERIAL.  
 A. PLACEMENT: MARKINGS SHALL BE PLACED EVERY 10 FEET ON ALL INTERIOR AND EXTERIOR DC CONDUITS, RACEWAYS, ENCLOSURES, AND CABLE ASSEMBLIES, AT TURNS, ABOVE AND FOR BELOW PENETRATIONS, ALL DC COMBINERS, AND JUNCTION BOXES.  
 B. VERBIAGE: CAUTION: SOLAR CIRCUIT  
 NOTE: THE FORMAT AND TYPE OF MATERIAL SHALL ADHERE TO "V.B-3B, C" OF THIS REQUIREMENT.  
 C. INVERTERS ARE NOT REQUIRED TO HAVE CAUTION MARKINGS.

MATERIALS USED FOR MARKING SHALL BE REFLECTIVE, WEATHER RESISTANT, AND SUITABLE FOR THE ENVIRONMENT. ALL LABELS SHALL BE WHITE LETTERS ON RED BACKGROUND.  
 THE MARKINGS SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.  
 NEC 110.21

**CONTRACTOR**  
 REVEL-ENERGY, INC.  
 2323 MAIN ST.  
 IRVINE, CA 92614  
 CSLB #: 1038433 / A, B, C10, C46  
 (949) 281-7171

I HEREBY CERTIFY THAT THE WORK PROPOSED TO BE DONE ON THESE PLANS IS IN CONFORMANCE WITH ALL CODES AND ORDINANCES OF THE A.H.J. OF CITY OF COACHELLA AND FURTHER, IF OMISSIONS OR ERRORS ARE DISCOVERED, I UNDERSTAND THAT THE WORK PERFORMED WILL BE REQUIRED TO COMPLY WITH THE CODES AND ORDINANCES OF THE A.H.J. OF CITY OF COACHELLA PRIOR TO FINAL BUILDING INSPECTION.  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ STATE LICENSE NO. 1038433 / A, B, C10, C46

PROJECT LOCATION:  
 WOODSPUR FARMS PV  
 5220 INDUSTRIAL WAY  
 COACHELLA, CA 92236

ARCH D (24" X 36") PRINT PAPER SIZE

NO.	DATE	DESCRIPTION	ELECT.	STRUC.
	7/27/2021	INITIAL PLAN SET	A.L.	--
	8/18/2021	1ST REVISIONS	A.L.	--
	9/11/2021	1ST CORRECTIONS	A.L.	--
	9/9/2021	2ND REVISIONS	A.L.	--

**SYSTEM INFO:**

TOTAL SYSTEM SIZE: DC STC:	2373.10 KW
TOTAL SYSTEM SIZE: AC CEC:	2185.93 KW
SOLAR MODULES:	(4996) TRINA TSM-475DE15V(I)
INVERTER(S):	(31) CPS SCA60TL-DO/US-480
SYSTEM (PLANT) 1:	
SYSTEM SIZE DC STC:	630.80 KW
SYSTEM SIZE AC CEC:	581.05 KW
SOLAR MODULES:	(1328) TRINA TSM-475DE15V(I)
INVERTER(S):	(8) CPS SCA60TL-DO/US-480
SYSTEM (PLANT) 2:	
SYSTEM SIZE DC STC:	975.65 KW
SYSTEM SIZE AC CEC:	898.70 KW
SOLAR MODULES:	(2054) TRINA TSM-475DE15V(I)
INVERTER(S):	(13) CPS SCA60TL-DO/US-480
SYSTEM (PLANT) 3:	
SYSTEM SIZE DC STC:	766.65 KW
SYSTEM SIZE AC CEC:	706.18 KW
SOLAR MODULES:	(1614) TRINA TSM-475DE15V(I)
INVERTER(S):	(10) CPS SCA60TL-DO/US-480

**DESCRIPTION:**

**SIGNAGE**

**PV 6.0**

**SIGNAGE REQUIREMENTS**

**GENERAL FIRE GUIDELINES &**

**MARKING REQTS:**

SEC. 5, MARKINGS, LABELS, AND WARNING SIGNS.  
A. PURPOSE: PROVIDES EMERGENCY RESPONDERS WITH APPROPRIATE WARNING AND GUIDANCE WITH RESPECT TO ISOLATING THE SOLAR ELECTRICAL SYSTEM. THIS CAN FACILITATE IDENTIFYING ENERGIZED ELECTRICAL LINES THAT CONNECT THE SOLAR PANELS TO THE INVERTER, AS THESE SHOULD NOT BE CUT WHEN VENTING FOR SMOKE REMOVAL.  
B. MAIN SERVICE DISCONNECT:  
1. RESIDENTIAL BUILDINGS: THE MARKING MAY BE PLACED WITHIN THE MAIN SERVICE DISCONNECT. THE MARKING SHALL BE PLACED ON THE OUTSIDE COVER IF THE MAIN SERVICE DISCONNECT IS OPERABLE WITH THE SERVICE PANEL CLOSED.  
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B. VERBIAGE:  
CAUTION: SOLAR CIRCUIT  
NOTE: THE FORMAT AND TYPE OF MATERIAL SHALL ADHERE TO "B-3B, C" OF THIS REQUIREMENT.  
C. INVERTERS ARE NOT REQUIRED TO HAVE CAUTION MARKINGS.

MATERIALS USED FOR MARKING SHALL BE REFLECTIVE, WEATHER RESISTANT, AND SUITABLE FOR THE ENVIRONMENT. ALL LABELS SHALL BE WHITE LETTERS ON RED BACKGROUND.  
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NEC 110.21

**CONTRACTOR**

REVEL-ENERGY, INC.  
2323 MAIN ST.  
IRVINE, CA 92614  
CSLB #: 1038433 / A, B, C10, C46  
(949) 281-7171

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SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_ STATE LICENSE NO. 1038433 / A, B, C10, C46

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ARCH D (24" X 36") PRINT PAPER SIZE

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9/11/2021		1ST CORRECTIONS	A.L.	--
9/9/2021		2ND REVISIONS	A.L.	--

**SYSTEM INFO:**

TOTAL SYSTEM SIZE: DC STC: 2373.10 KW  
TOTAL SYSTEM SIZE: AC CEC: 2185.93 KW  
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INVERTER(S): (31) CPS SCA60TL-DO/US-480  
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SYSTEM SIZE AC CEC: 581.05 KW  
SOLAR MODULES: (1328) TRINA TSM-475DE15V(I)  
INVERTER(S): (8) CPS SCA60TL-DO/US-480  
SYSTEM (PLANT) 2:  
SYSTEM SIZE DC STC: 975.65 KW  
SYSTEM SIZE AC CEC: 898.70 KW  
SOLAR MODULES: (2054) TRINA TSM-475DE15V(I)  
INVERTER(S): (13) CPS SCA60TL-DO/US-480  
SYSTEM (PLANT) 3:  
SYSTEM SIZE DC STC: 766.65 KW  
SYSTEM SIZE AC CEC: 706.18 KW  
SOLAR MODULES: (1614) TRINA TSM-475DE15V(I)  
INVERTER(S): (10) CPS SCA60TL-DO/US-480

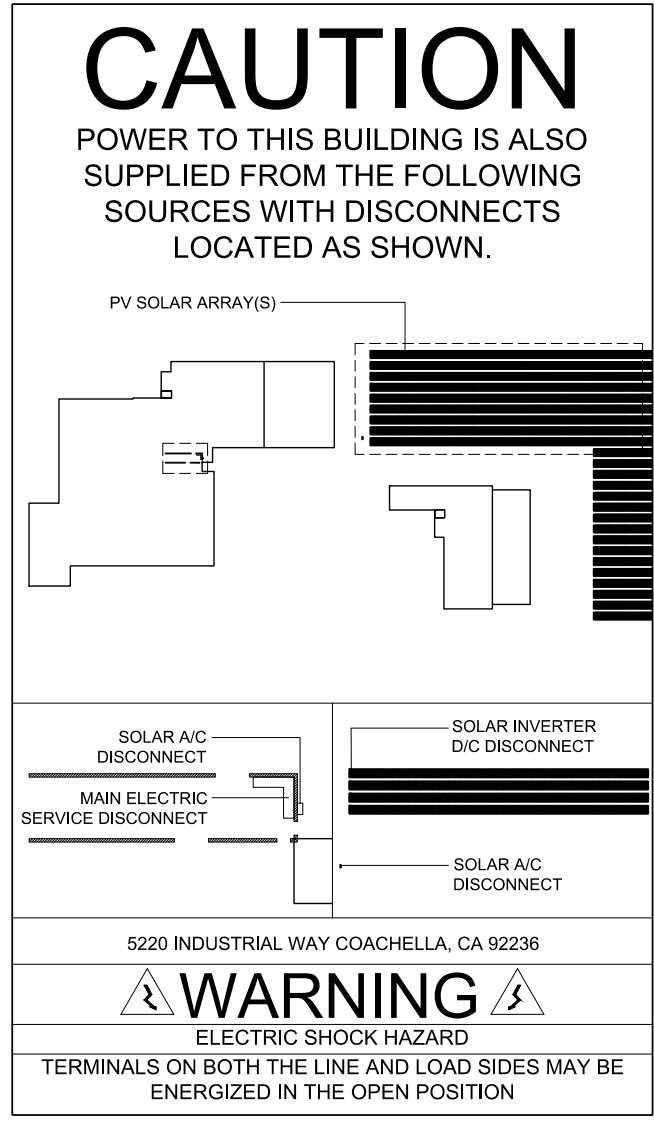
**DESCRIPTION:**

**DIRECTORY PLACARDS**

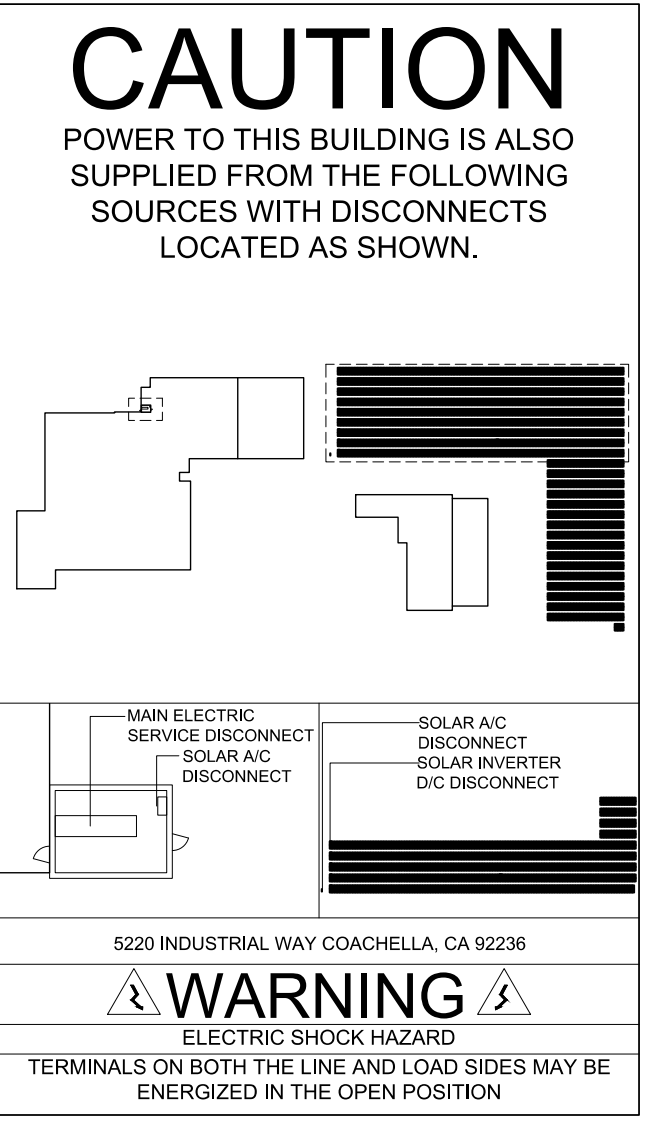
**PV 6.1**

② BUILDING / STRUCTURE

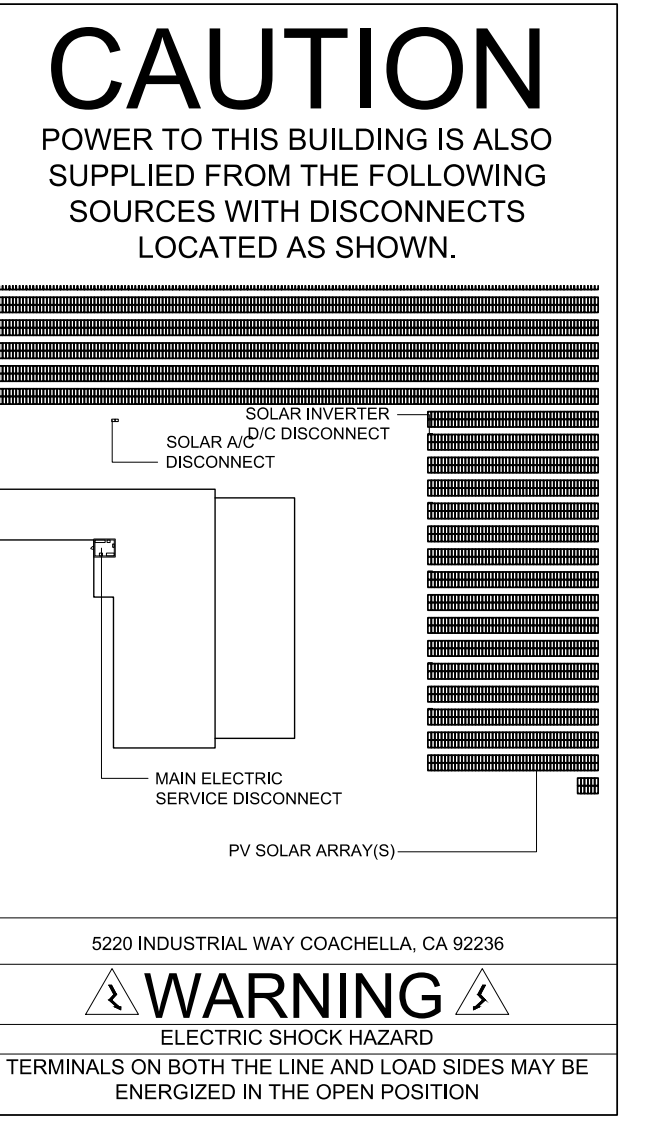
SYSTEM 1  
CEC 705.10 - BY MAIN SERVICE PANEL:



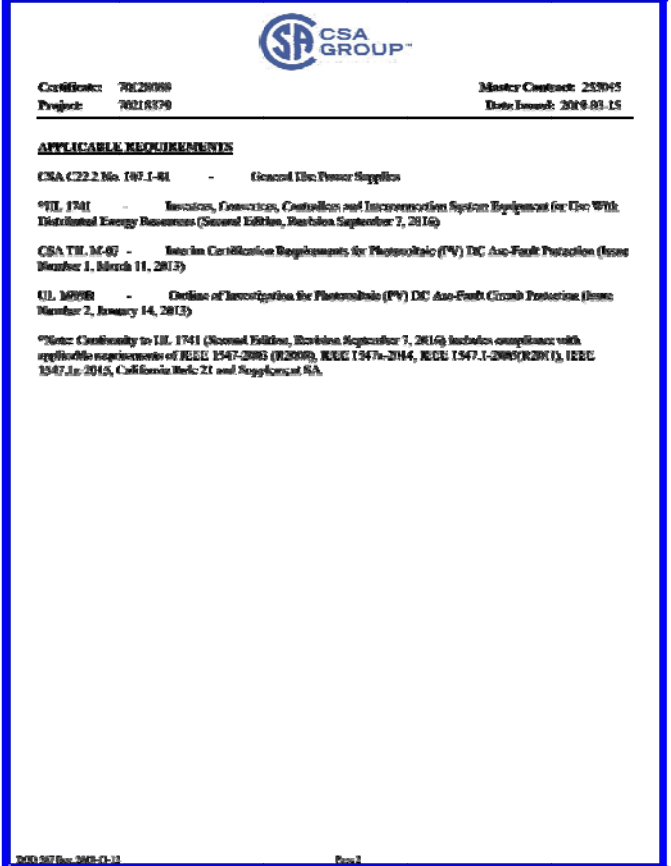
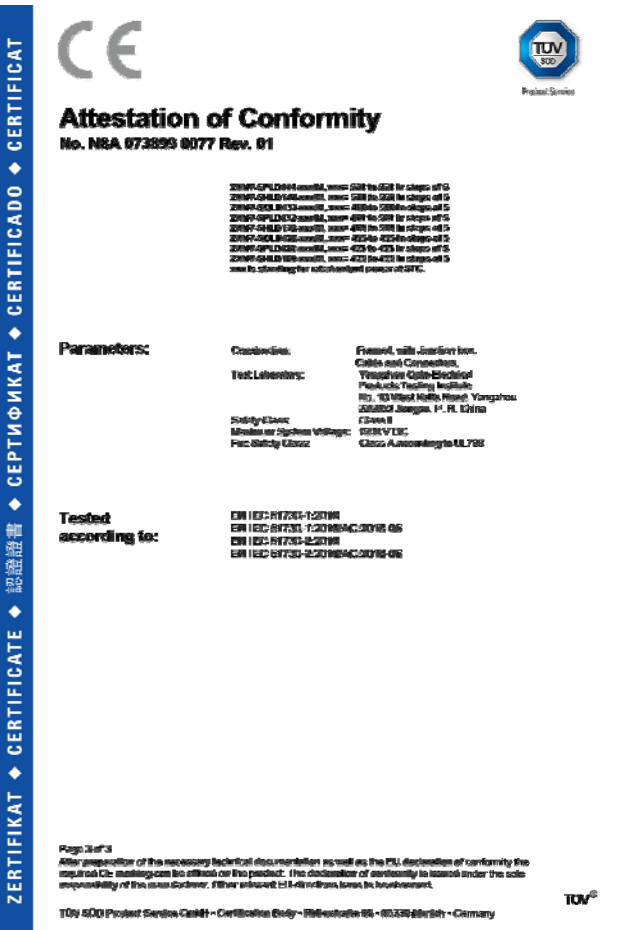
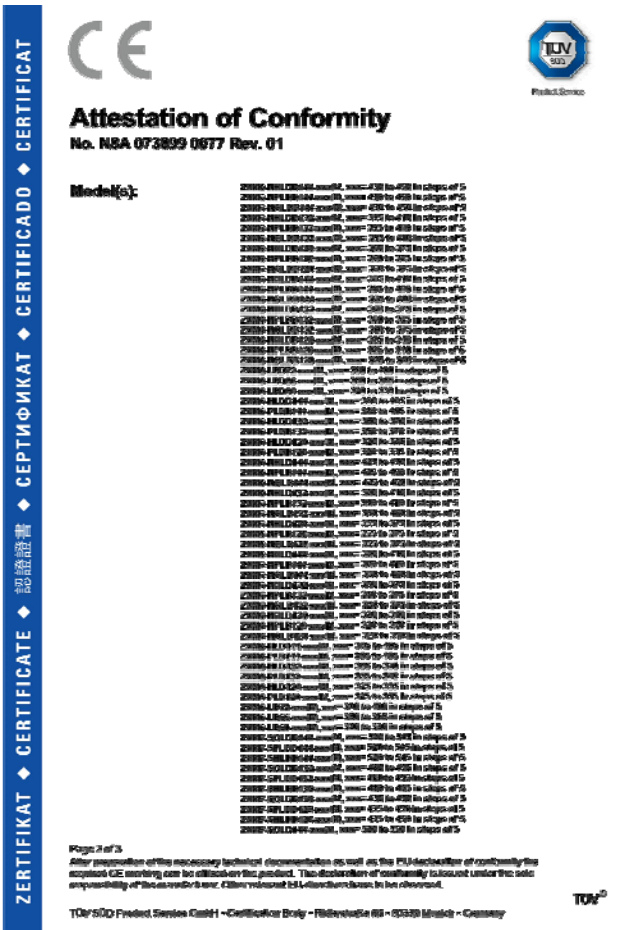
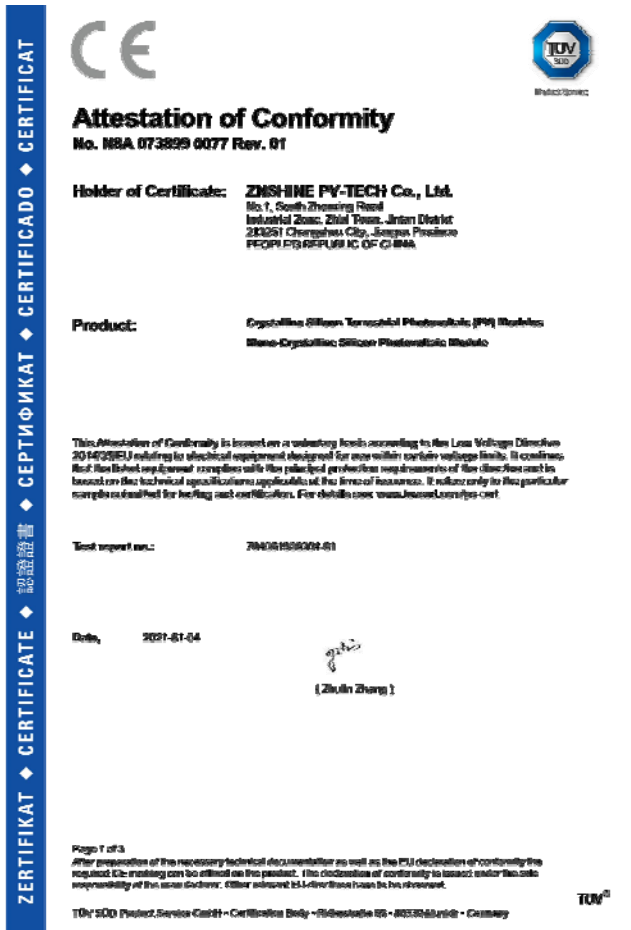
SYSTEM 2  
CEC 705.10 - BY MAIN SERVICE PANEL:



SYSTEM 3  
CEC 705.10 - BY MAIN SERVICE PANEL:







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DESCRIPTION:  
**UL LISTING**  
**PV 8**