

COMPANY INFORMATION

ALL ENERGY SOLAR, INC
 1264 ENERGY LANE
 ST PAUL, MN 55108
 (800) 620-3370
 INFO@ALLEENERGYSOLAR.COM

CLIENT INFORMATION

PEGGY JONES
 35374 350TH AVE
 AITKIN, MN 56431
PO 45110

Panel Type

LG 370 BOB (USA)

of Panels

28

System Size (kW)

10.360

Ground Mount

NOTES:

1. (28) ENPHASE IQ7PLUS INVERTER(S)
2. ARRAY 1:
 35° TILT, 180° AZIMUTH

AZIMUTH



REVISIONS

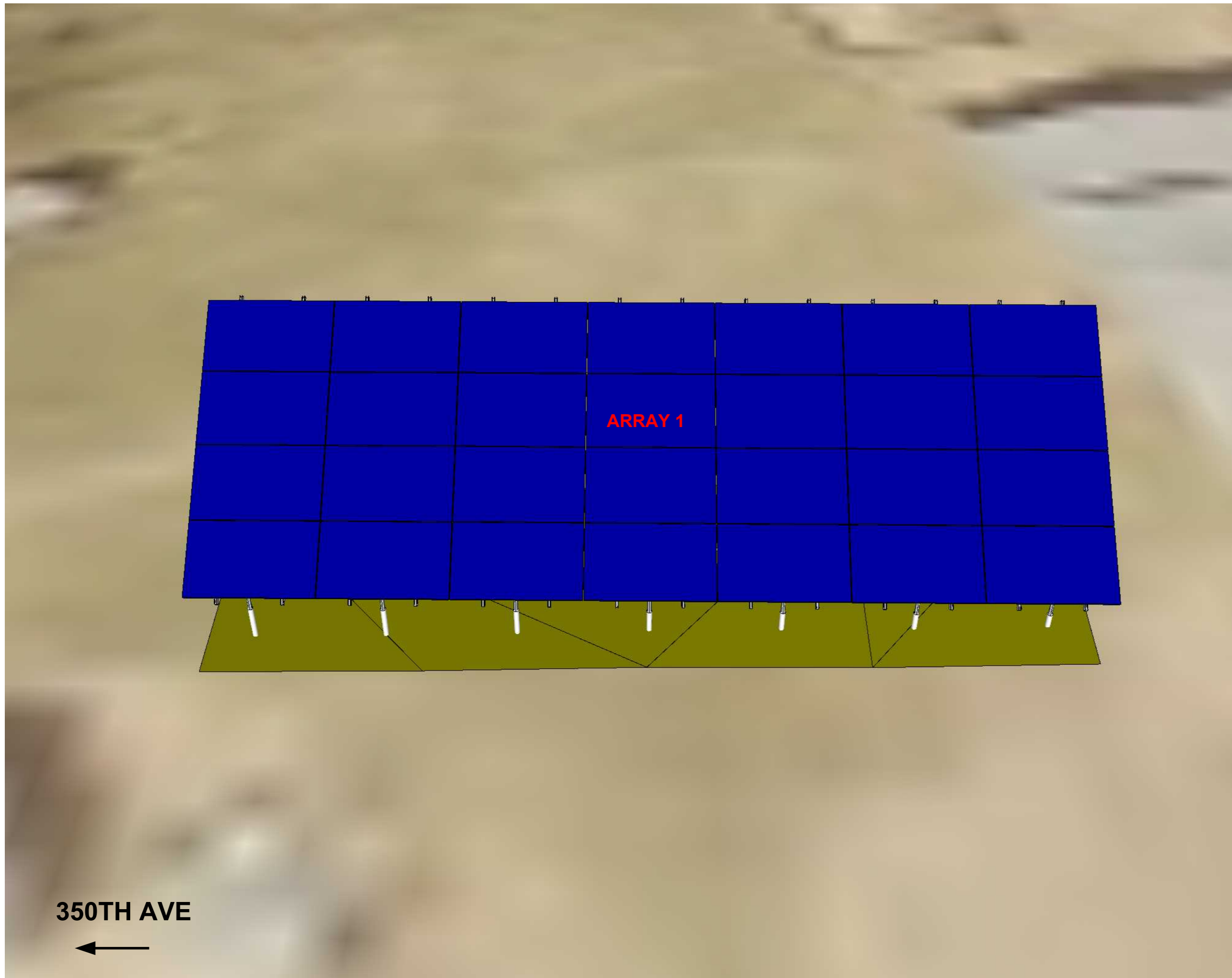
LAST: 08/6/21 BX

PROJECT-PAGE TITLE

COVER PAGE

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350TH AVE





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SYSTEM DETAILS

- NOTES:
1. (28) ENPHASE IQ7PLUS INVERTER(S) = 8.12kW AC
 2. ARRAY 1:
 180° AZIMUTH, 35° TILT
 (28) LG 370W = 10.36kW

ACCOUNT: 33-25-004-04
 PREMISE:
 METER: 202735

AZIMUTH



REVISIONS

LAST: 08/6/21 BX

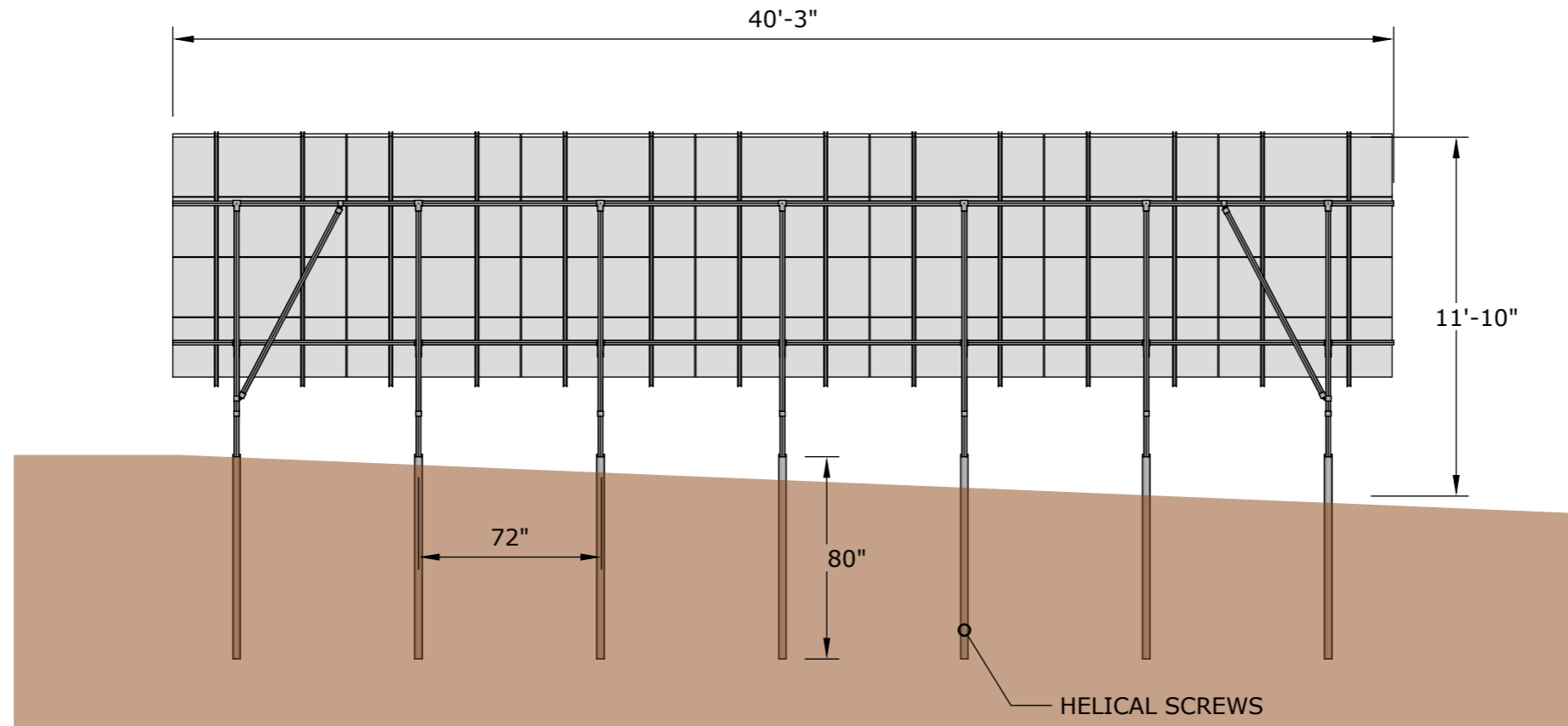
PROJECT-PAGE TITLE

PROPERTY MAP

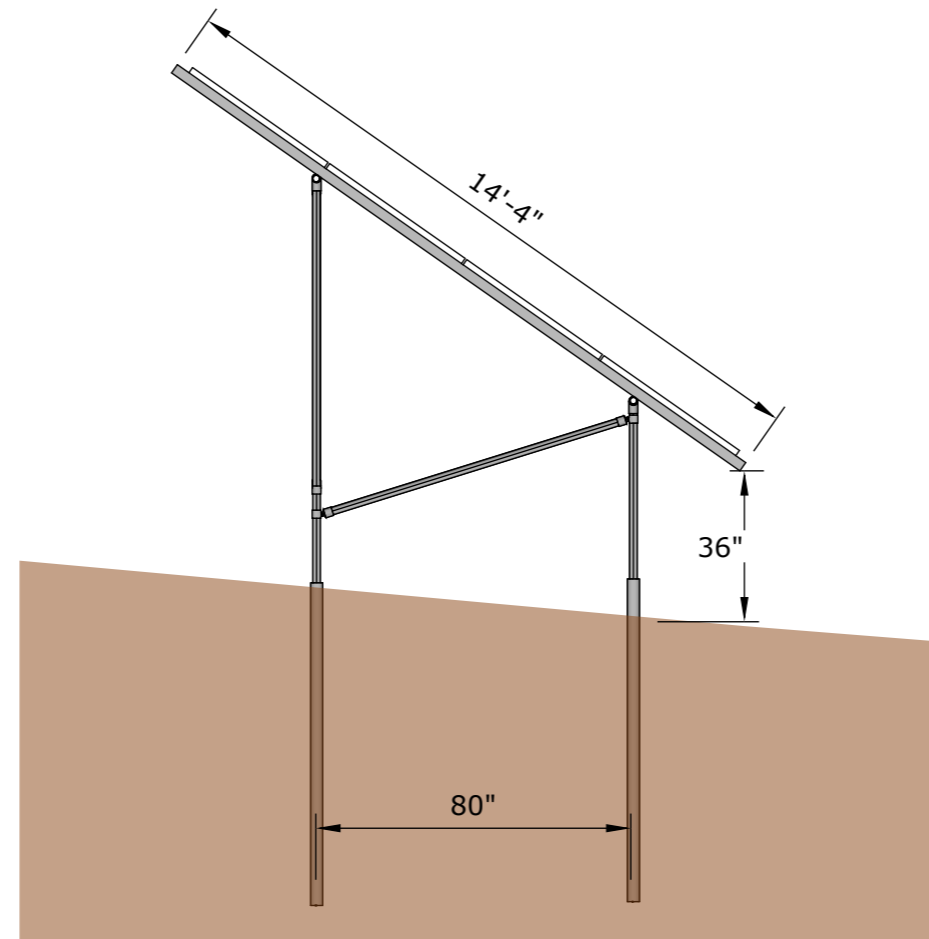
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NORTH ELEVATION



WEST ELEVATION



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SYSTEM DETAILS

NOTES:

1. ELEVATIONS MAY VARY DEPENDING ON GROUND ELEVATION BUT ARE DRAWN TO THE BEST OF OUR ABILITY

REVISIONS

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ELEVATION DRAWINGS

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SYSTEM DETAILS

SUNMODO MOUNTING HARDWARE:

- (14) FOOTINGS
- SEE CONFIGURATION IN DRIVE FOR ADDITIONAL MATERIALS

**STRINGING TO BE DETERMINED ON SITE*

AZIMUTH



REVISIONS

LAST: 08/6/21 BX

PROJECT-PAGE TITLE

RAIL AND STRINGING DIAGRAM

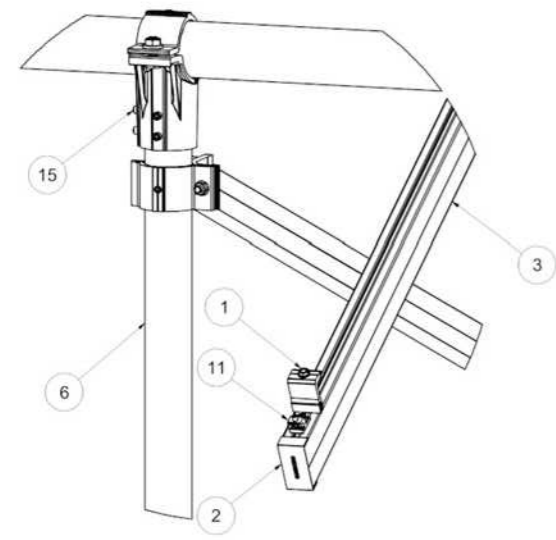
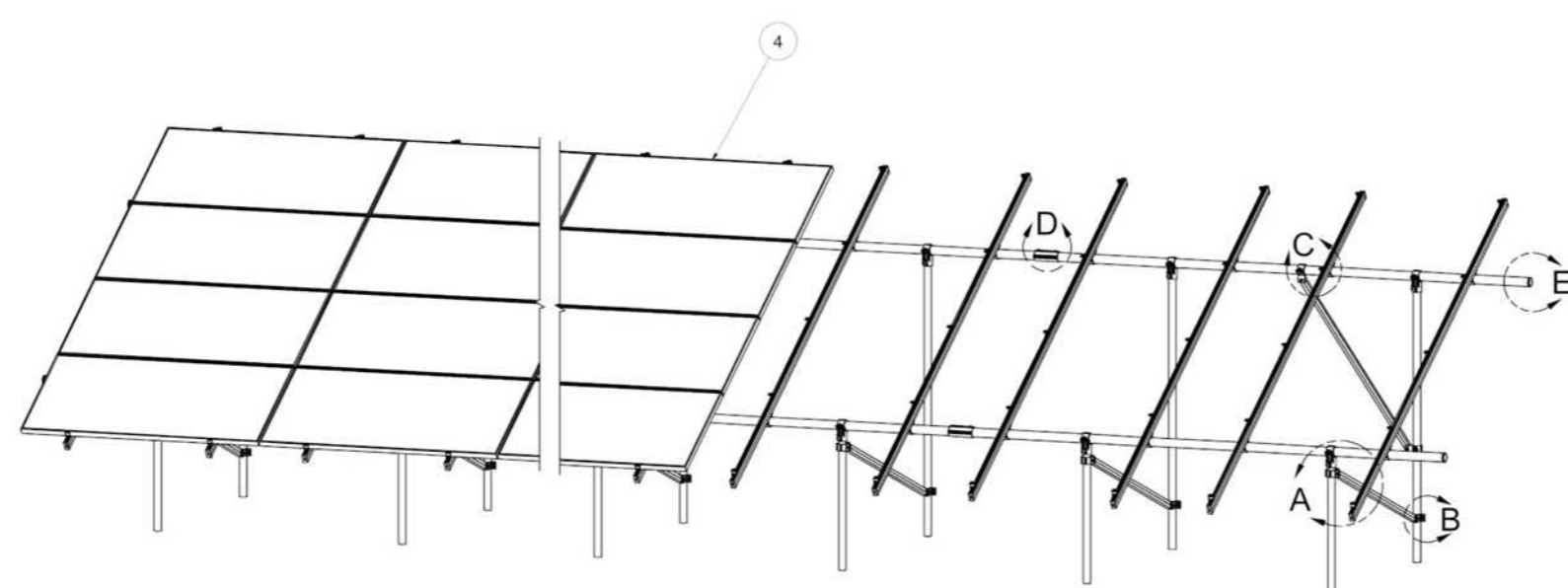
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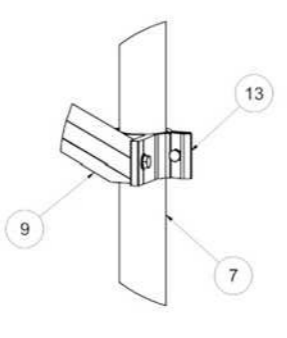
NOTES: UNLESS OTHERWISE SPECIFIED

- THIS DRAWING IS NOT FOR CONSTRUCTION UNTIL ENGINEERING HAS REVIEWED AND STAMPED THIS DOCUMENT. **12. K10448-001 IS AN ACCEPTABLE SUBSTITUTE FOR K10342-001 PIPE SPLICE KIT**
- DIMENSIONS SHOWN ARE INCHES.
- THE SELF-BONDING SYSTEM AND SINGLE GROUND LUG IS FOR USE WITH PV MODULES THAT HAVE A MAXIMUM SERIES FUSE RATING OF 30A.
- MATERIALS ARE AS SPECIFIED OR EQUIVALENT:
 HARDWARE: 304 STAINLESS STEEL
 FABRICATED EXTRUDED PARTS: 6005-T5 ALUMINUM ALLOY
 FABRICATED DIE CAST PARTS: ANSI/AA A380 ALUMINUM ALLOY
 STEEL PIPE: SCHEDULE 40 GALVANIZED
 ALUMINUM PIPE: SCHEDULE 10 ANODIZED
- THE MAXIMUM PERMISSIBLE LENGTH OF ANY STRUCTURE SHALL BE 200 FT. FOR SYSTEMS USING A SHARED RAIL CONFIGURATION, A THERMAL BREAK IS REQUIRED IN THE RAIL EVERY 40 FT. PER THE DRAWING DETAILS.
- 4LX7-35DEG-STR-GSM-AGM-BGM-PGM**
- APPROVED RAIL PROFILES VARY BASED ON ENGINEERING REQUIREMENTS. CONFIRM SELECTION WITH STRUCTURAL ENGINEER. SEE BOM IN BOTTOM RIGHT CORNER.
- K10224-XXX END CLAMP KIT OR K10299-XXX ADJ. END CLAMP KIT.
- FOUNDATION TYPES:
 GSM = GROUND SCREW GROUND MOUNT
 AGM = HELICAL AUGER GROUND MOUNT
 PGM = POST-IN-CONCRETE GROUND MOUNT
 BSM = BALLAST GROUND MOUNT

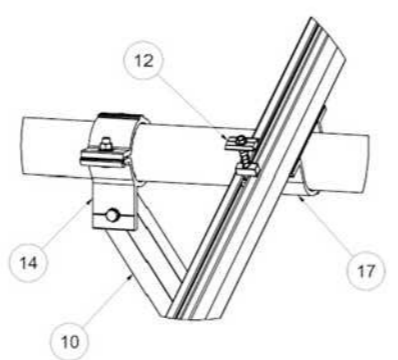
- 1 OF 1 ARRAY TYPES
- 1 ARRAYS TOTAL



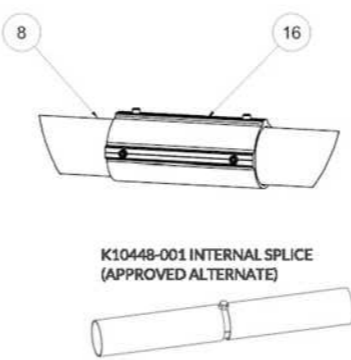
DETAIL A



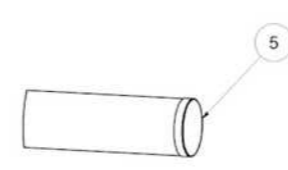
DETAIL B



DETAIL C



DETAIL D



DETAIL E

K10448-001 INTERNAL SPLICE (APPROVED ALTERNATE)

PACKET A9	
Model Code	ASCE 7-16
Exposure Category	C
Wind Speed	105
Ground Snow Load	60
Tilt	35

4LX7 ARRAY

17	K10343-004	2.5" Pipe U-Clamp Kit	28
16	K10448-001	2.5" Pipe Splice Kit	8
15	K10341-002	2.5" Pipe T-Cap Kit	14
14	K10222-001	2.5" Pipe Clamp Kit	2
13	K10219-001	2" Pipe Clamp Kit	16
12	K10180-001	Universal Mid Clamp Kit	42
11	K10179-002	Grounding Lug	1
10	A50164-066	HSS E/W Tube Brace	2
9	A50164-092	HSS N/S Tube Brace	7
8	A21168-112	2.875" OD E/W Pipe Beam, 112"	10
7	A21165-060	HSS 2.375" OD Front Pipe	7
6	A21165-120	HSS 2.375" OD Rear Pipe	7
5	A20380-001	2.5" PIPE END CAP (OPTIONAL)	4
4		Panel 1,740 x1,041 x40.0mm	28
3	A20288-206-ML	Helio Rail HR300, 206"	14
2	A20297-001	Rail End Cap	28
1	K10224-140	End Clamp Kit	28

ITEM	PART NUMBER	DESCRIPTION	QTY
SEE BOM			
SunModo Corp.			
14800 NE 65TH STREET, VANCOUVER WA 98682			
TITLE: PEGGY JONES 45110			
D 43DOC4			
SCALE: N.T.S. SHEET 1 of 4			

(28) LG LG370N1K-A6 MODULES (28) ENPHASE IQ7PLUS INVERTER(S)	MAX CIRCUIT LENGTH (120/240V)	15A BREAKER	20A BREAKER
	ENPHASE IQ7	12	16
	ENPHASE IQ7+	9	13
	ENPHASE IQ7X	9	12
	ENPHASE IQ7A	8	11

CIRCUITS:

(2) CIRCUIT(S) OF 9 MICROS

(1) CIRCUIT(S) OF 10 MICROS

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180° AZIMUTH, 35° TILT
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ACCOUNT: 33-25-004-04
PREMISE:
METER: 202735

AZIMUTH



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PROJECT-PAGE TITLE

SITE MAP

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DISTANCES

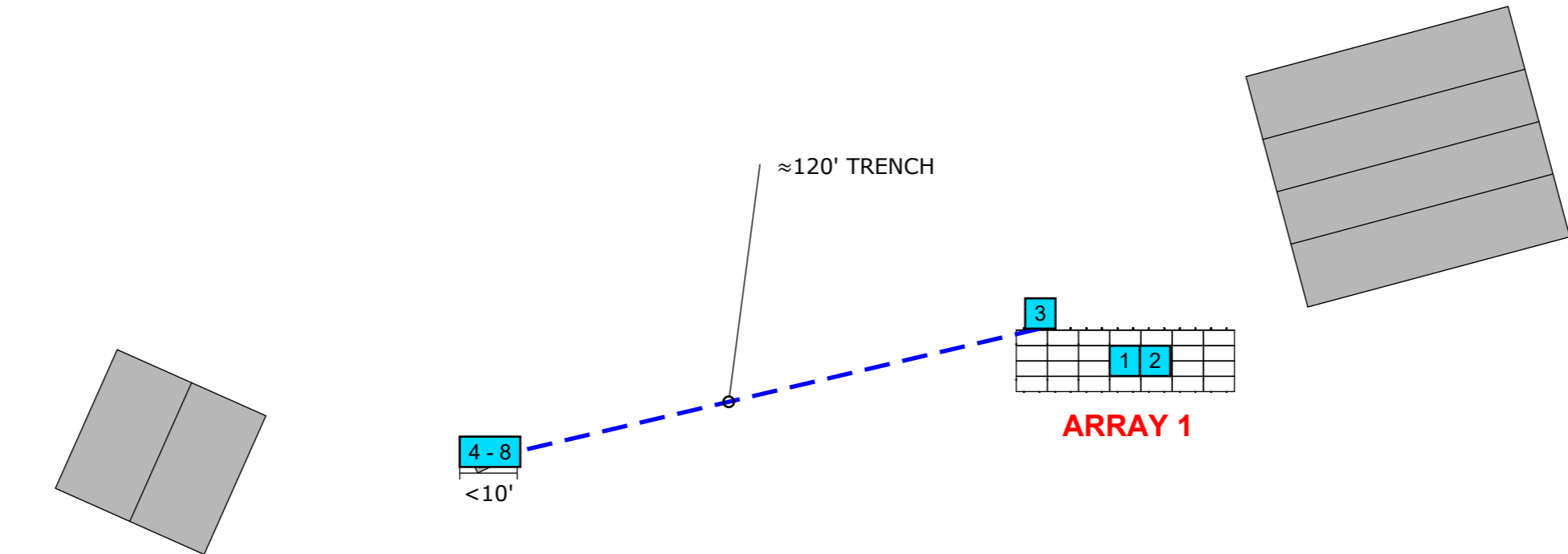
SOLAR PANELS - INVERTERS: 5' MAX
INVERTERS - PV COMBINER PANEL: 50' MAX
PV COMBINER PANEL - IQ COMBINER PANEL: 120' MAX
IQ COMBINER PANEL - UTILITY AC DISCONNECT: 2'
UTILITY AC DISCONNECT - PV PRODUCTION METER: 2'
PV PRODUCTION METER - MAIN ELECTRIC SERVICE: 2'
MAIN ELECTRIC SERVICE - BI-DIRECTIONAL METER: 2'

CALL-OUTS:

- SOLAR PANELS
- INVERTERS
- PV COMBINER PANEL
- ENPHASE IQ COMBINER PANEL
- UTILITY AC DISCONNECT
- PV PRODUCTION METER
- MAIN ELECTRIC SERVICE
- BI-DIRECTIONAL METER

350TH AVE

↓ 2,040'
47 RD



NOTES:

- LOCATION OF SERVICE PANEL AND ELECTRICAL EQUIPMENT ARE SHOWN. FINAL LOCATION MAY CHANGE
- LOCATION OF SERVICE PANEL AND ADDITIONAL ELECTRICAL EQUIPMENT NOT DRAWN TO SCALE
- PV INTERCONNECTION IS A SECONDARY INTERCONNECTION
- AC DISCONNECT AND PRODUCTION METER IN READILY ACCESSIBLE LOCATION WITHIN 10' OF MAIN SERVICE METER/BI-DIRECTIONAL METER. 24/7 UNESCORTED KEYLESS ACCESS TO BE PROVIDED FOR UTILITY AC DISCONNECT, PV PRODUCTION METER, & BI-DIRECTIONAL METER.**

5. PV EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH NEC 690 AND POSTED WITH APPLICABLE WARNINGS, SIGNAGE, AND PLAQUES PER NEC 705-10, 690-17, & 690-64 (b)(5).

6. CIRCUITS:

- (2) CIRCUIT(S) OF 9 (15AMPS EACH)
- (1) CIRCUIT(S) OF 10 (20AMPS EACH)

LABELS LOCATED ON PV PRODUCTION METER, BI-DIRECTIONAL METER, AC DISCONNECT(S), INVERTER(S), AND APPROPRIATE LABELS ON MAIN ELECTRIC SERVICE. ALL LABELS ARE PERMANENT, WEATHERPROOF, AND DURABLE

THERE ARE NO CLEARANCE ISSUES DUE TO OVERHEAD POWERLINES.