

March 24, 2023

MT Solar 54179 Herak Road Charlo, MT 59824

RE: Solar ground mount footing and assembly for Tamarack Solar, 288 F Street, Arcata, CA 95521

As per your request, I have evaluated the proposed footing and assembly for the solar array. The solar array consists of 4 panels with 1 footings. The following loads were used in the analysis of the pole mount system:

Snow load 70 psf

Wind speed 130 mph (ASCE 7-16)

Exposure Category B

Soil Lateral Pressure 150 psf/ft Soil Vertical Pressure 2000 psf

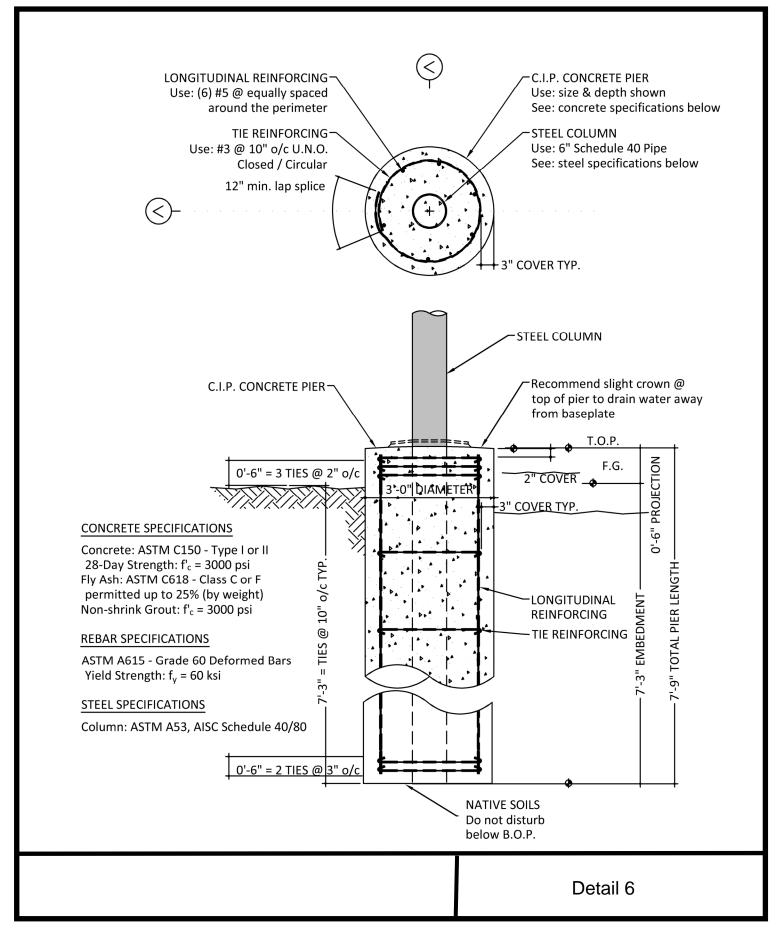
It is my recommendation that the MT Solar design (TE-103) will adequately support the solar array. The footing should be reinforced per detail 6. The 6" schedule 40 pipe supporting the solar array should be embedded as the footing shown.

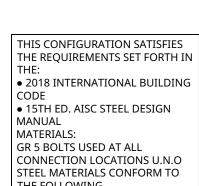
The contractor shall notify the engineer if there are any discrepancies including soil profile. Right Angle Engineering assumes no responsibility for improper installation of solar panels or their components. Alterations to this engineering design and/or sealed plans shall not be made without direct written consent of the engineer of record.

Respectfully,



Robert D Smythe, P.E. Right Angle Engineering





GR 5 BOLTS USED AT ALL
CONNECTION LOCATIONS U.N.O
STEEL MATERIALS CONFORM TO
THE FOLLOWING

• STEEL PIPE: ASTM A53, GR B,

STEEL PIPE: ASTM A53, GR B, Fy=35 KSI
WIDE FLANGE SECTIONS: ASTM A992, Fy=50 KSI
RECTANGULAR HSS SECTIONS: ASTM A500, GR C, Fy=50 KSI
PLATES: ASTM A36 Fy=36 KSI CONCRETE WORK TO BE IN ACCORDANCE WITH ACI 318-14
CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE
STRENGTH OF (F'C) of 3000 PSTHIS STRENGTH OF (F'c) of 3000 PSTHIS CONFIGURATION SATISFIES THE REQUIREMENTS SET FORTH IN

2018 INTERNATIONAL BUILDING CODE
 15TH ED. AISC STEEL DESIGN

MANUAL MATERIALS:
GR 5 BOLTS USED AT ALL
CONNECTION LOCATIONS U.N.O
STEEL MATERIALS CONFORM TO

THE FOLLOWING

• STEEL PIPE: ASTM A53, GR B,

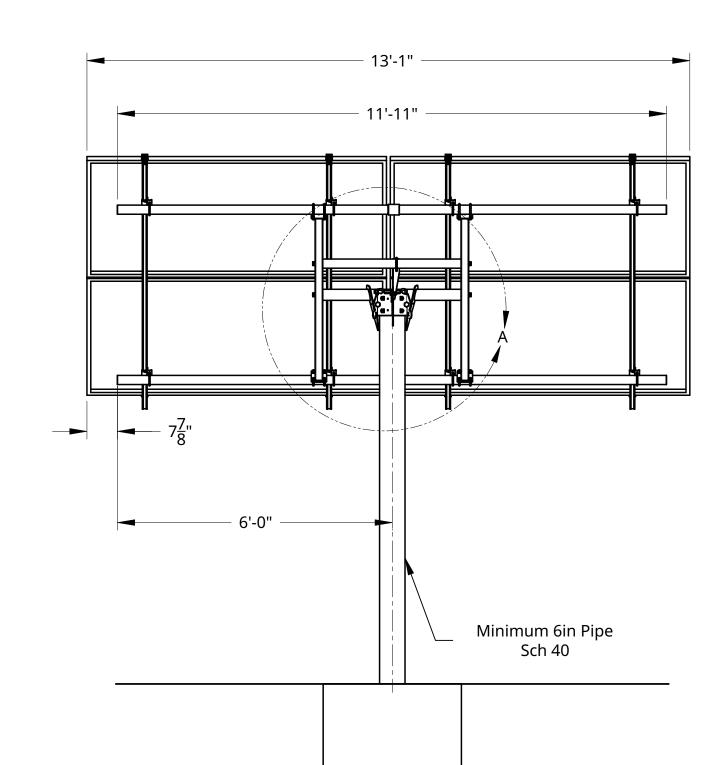
STEEL PIPE: ASTM A53, GR B, Fy=35 KSI

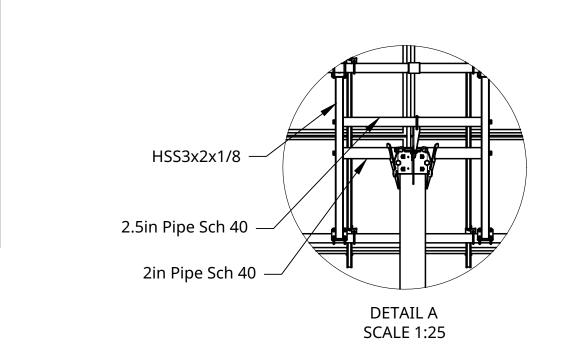
WIDE FLANGE SECTIONS: ASTM A992, Fy=50 KSI

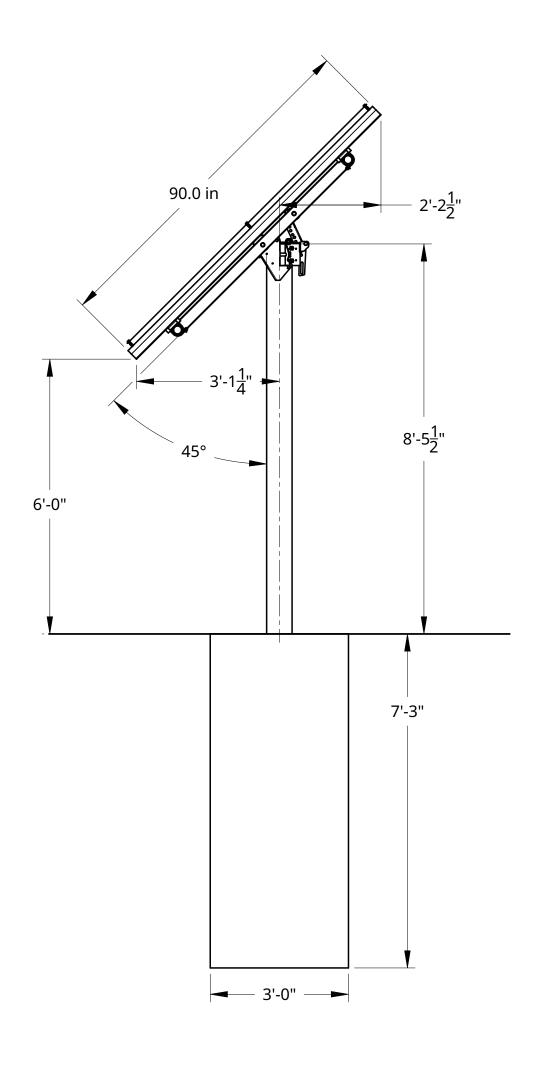
RECTANGULAR HSS SECTIONS: ASTM A500, GR C, Fy=50 KSI

PLATES: ASTM A36 Fy=36 KSI CONCRETE WORK TO BE IN ACCORDANCE WITH ACI 318-14

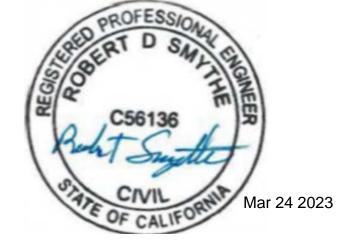
CONCRETE SHALL HAVE A
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 STRENGTH OF (F'c) of 3000 PS







Item	Quantity	Name
1	1	CB-POLECAP-6
2	1	CYBER-BACKPLATE-6
3	1	CB-LID-6
4	2	BOLT-KIT-CYBER-6
5	1	CYBER-ADJUSTER
6	9	CB-2-U-BOLT
7	2	TUBE-3x2-60IN-SD
8	1	PIPE-2IN-36IN-SD
9	1	PIPE-2.5IN-36IN-SD
10	4	PIPE-KIT-6FT-SD (NOT INCLUDED)
11	1	BOLT-KIT-CB-FRAME
12	1	POLE (NOT INCLUDED)
13	4	3.1 Rail Configurable
14	16	Tamarack Module Clamp Assembly
15	8	Tamarack Rail Adapter Kit
16	8	FM-1040M Tamarack Pipe Mount 2IN
17	1	groundplane
18	1	PALLET-PACKAGING-MATERIALS



DESIGN CRITERIA
MODULE QTY: 4
MODULE DIMENSIONS: 43" X 78"
WIND SPEED: 130 MPH, EXPOSURE B
GROUND SNOW: 70 PSF
SOIL: 4 - NON-COHESIVE, SAND

## TAMARACK SOLAR | TE-103



288 F St Arcata CA 95521 SHEET 1 of 1 03/21/2023