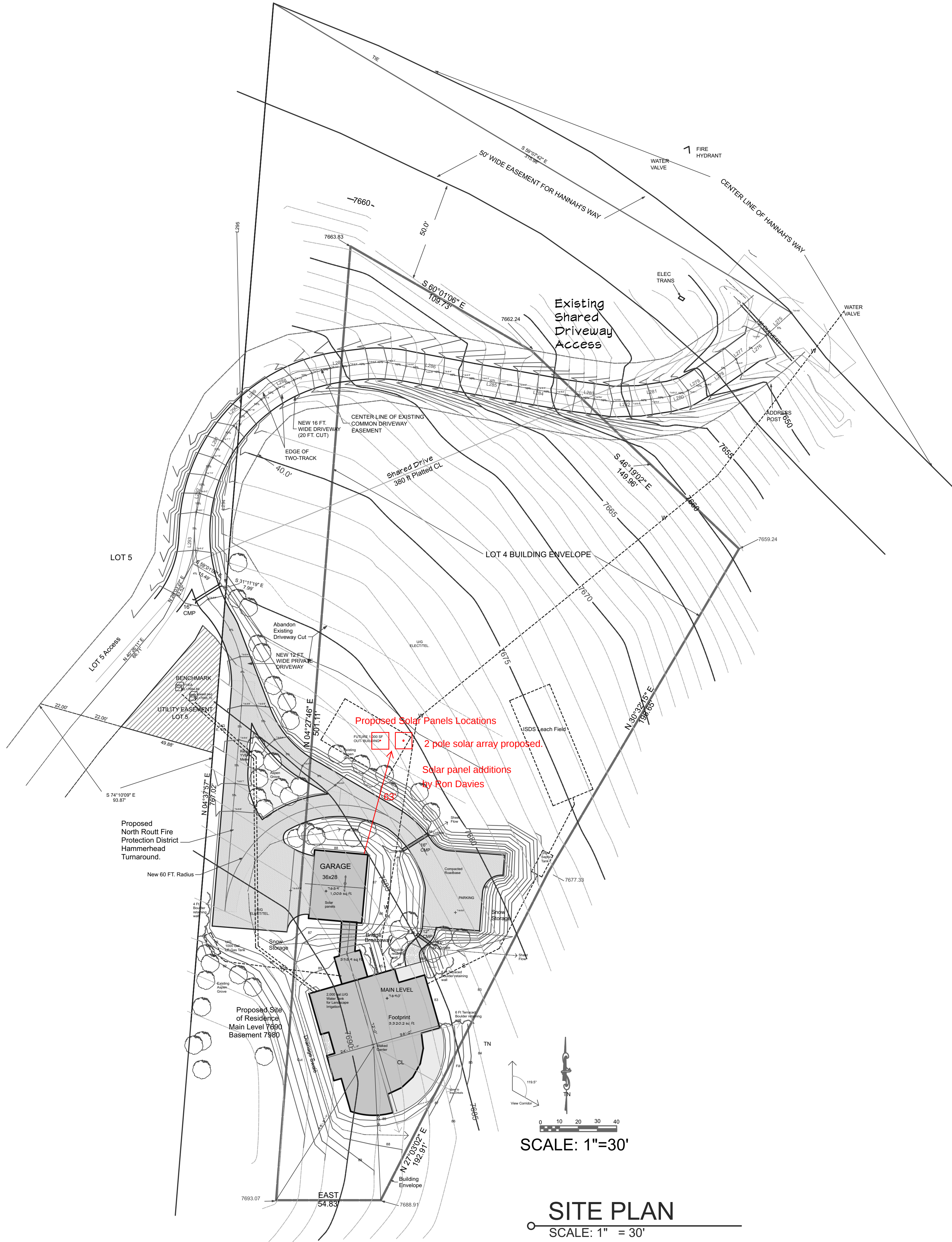


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GIS/Addressing OK
EK 20160915



CONSULTANTS

RCRBD
RECORD SET
ELECTRICAL

A
New
Residence
for
Black Dog
Holding, LLC

56010 Hannah's Way
CLARK
COLORADO
80428
PIN: 2868000004

MARK	DATE	DESCRIPTION
SD	01/28/15	M-L HOA Sketch Plan Review
DD	03/19/15	Client Review
DD	04/06/15	Window/Door Pricing
CD	04/22/15	Prelim. Structural Review
CD	05/27/15	PERMIT SET

PROJECT NO:
MODEL FILE:
DRAWN BY:
CHK'D BY:

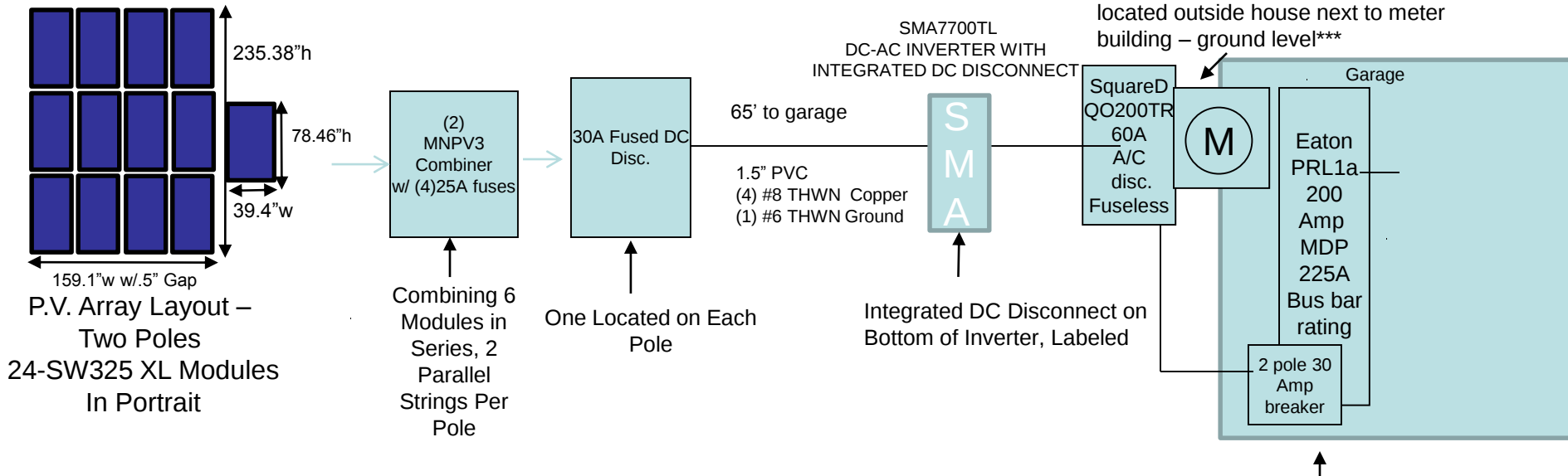
SHEET TITLE

SITE PLAN

C-1.2

SHEET 4

OF 28



Equipment Schedule

Inverter: SMA
Model# = S7700-TL-US
Power output = 7700W
Max DC voltage rating = 600V
Nominal A/C voltage = 240V
Max. A/C output = 30A
Integrated D/C disconnect
A/C Disconnect
Manufacturer: Square D
Model # QO200TR

PV Module information

Manufacturer = Solar World
Module Model# = SW 325 mono
Wattage = 325W
Rated Voltage = 36.1V
Rated current = 8.71A
Open Circuit Voltage = 46.1V
Short Circuit Current = 9.35A
Max. Syst. Voltage = 1000V
Series Fuse Rating = 25A
Temp. Coeff. = Voc -.30%/K

Wiring & Conduit Schedule

PV source circuits
Conductors: #8 USE-2
Ground: #6 bare copper
Conduit: 1.25" SCH80 PVC
PV Output Circuit
Conductors: #10 THWN
Ground: #6 BARE CU
Conduit: 1.25" PVC
Inverter Output Circuit (POI)
Conductors: #6 THWN
Equipment Ground: #6 THHN
to building grounding bus bar in MDP
GEC: #6 bare copper to UFER ground

Combined PV Array information

Manufacturer = SolarWorld
Module Model# = SW 325XL
Max Power at STC = 325W
Number of modules in series = 6
Number of Series modules in Parallel = 2
Operating Current = 11.75A
Short Circuit Current = 17.75A
Operating Voltage = 240.0V
Max. Syst. Voltage = 240.0V
Max Circuit Current = 20A

R C R B D

RECORD SET

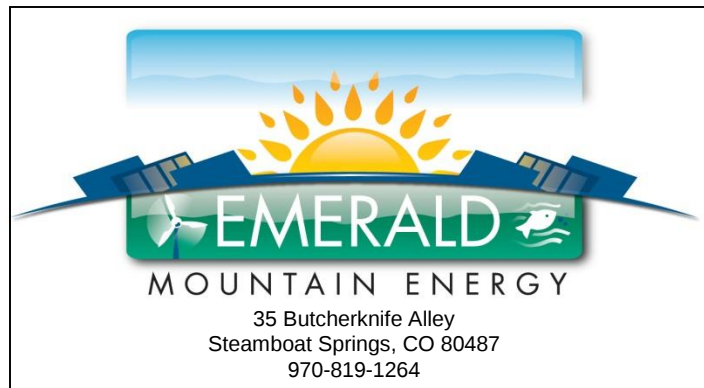
ELECTRICAL

Notes

- The point of interconnection is a 2 pole 30 Amp 240V breaker in a panel in the electrical room
- The meter will be placarded, "Warning!! Photovoltaic System Connected"
- A visible A/C disconnect will be located outside next to electric meter at ground level and placarded, "Photovoltaic A/C Disconnect"

**Black Dog Ranch
Residence
Steamboat, CO**

Drawn by: Colin McCauley
Date: 8/5/15





Top-of-Pole Mount for 10 Modules (TPM12) For Module Type H

ASSEMBLY INSTRUCTIONS

step-by-step
assembly and installation





Top-of-Pole Mount for 12 Modules (TPM12) For Module Type H

A few words about the product

The TPM12 for module type H is designed to mount on 8 inch SCH40/80 galvanized steel pipe (installer supplied).

Pipe size and foundation requirements are based on several factors including the array surface area, maximum design wind speed, exposure category, soil type, steepest expected tilt angle, and above-ground clearance.

For foundation and pipe size recommendations on a specific installation, please contact us at:

Phone: 800-260-3792

Email: info@power-fab.com

About these Assembly Instructions

These instructions...

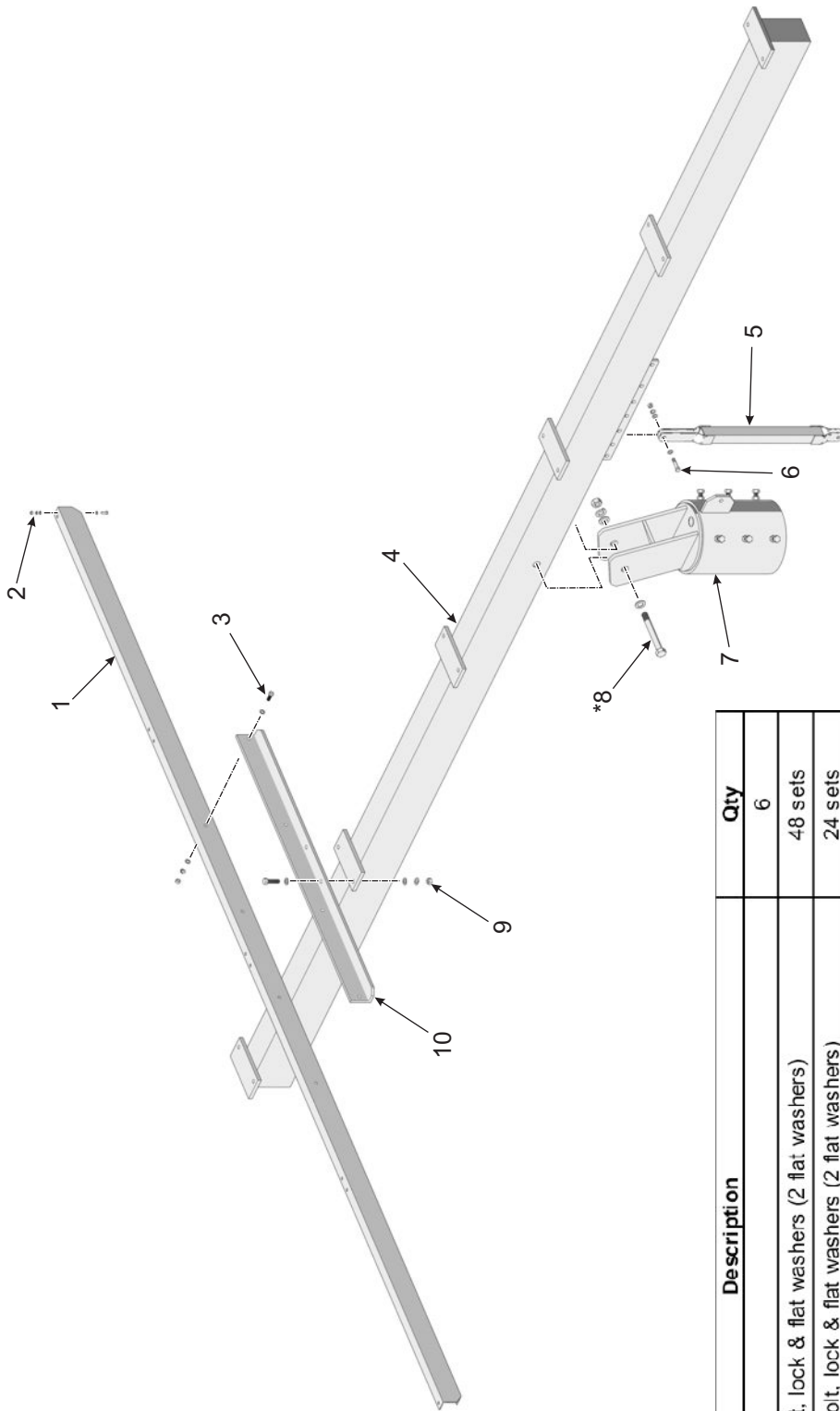
- Are intended to be used by individuals with sufficient technical skills for the task. Knowledge and use of hand tools, measuring devices and torque values is also required.
- Include various precautions in the forms of Notes, Cautions, and Warnings. These are to assist in the assembly process and/or to draw attention to the fact that certain assembly steps may be dangerous and could cause serious personal injury and/or damage to components. Following the step-by-step procedures and these precautions should minimize the risk of any personal injury or damage to components while making the installation not only safe but an efficient process.

WARNING:

Follow the procedures and precautions in these instructions carefully.

Required Tools

- ☐ 7/16 inch wrench or socket for 1/4 inch module hardware
- ☐ 9/16 inch wrench or socket for 3/8 inch hardware
- ☐ 3/4 inch wrench or socket for 1/2 inch hardware
- ☐ 1-1/2 inch wrench or socket for 1 inch Pivot Bolt hardware
- ☐ Torque wrench
- ☐ Ratchet wrench
- ☐ Ratchet extension bar
- ☐ 3 to 6 foot level
- ☐ Tape Measure
- ☐ Square



Item	Description	Qty
1	Module Rail	6
2	1/4" x 3/4" Bolt, lock & flat washers (2 flat washers)	48 sets
3	3/8" x 1-1/4" Bolt, lock & flat washers (2 flat washers)	24 sets
4	Strongback	1
5	Support Bar	1
6	1/2" x 1 3/4" Bolt, lock & flat washers (2 flat washers)	2 sets
7	Mounting Sleeve	1
8	1" x 5-1/2" or 6-1/2" Pivot Bolt, lock & flat washers (2 flat washers) *	1 set
9	1/2" x 1 3/4" Bolt, lock & flat washers (2 flat washers)	12 sets
10	Rail Angle	6
* Pivot Bolt length depends on the width of the Strongback width; as such a 3" wide Strongback uses a 5-1/2" Pivot Bolt and a 4" wide Strongback uses a 6-1/2" Pivot Bolt.		

Top-of-Pole Mount for 12 Modules for Module Type H Parts Identification



Step 1: Install the Mounting Sleeve on Vertical Pipe

CAUTION:

Use care while working around the structure during assembly. There could be components that create hazards or obstruct free movement causing serious bodily injury. Many are at head/eye level. Move slowly and with care around the work area.

Before installing the Mounting Sleeve, verify that the Mounting Pole is plumb to the ground and hasn't shifted or leaned while the concrete footing has cured.

The Mounting Sleeve slips on top of the Mounting Pole and has six 1/2" Set Bolts which are used to secure it to the Mounting Pole. (See Figure 1-1)

- Slip the Mounting Sleeve on top of Mounting Pole and slide it down until it rests/bottoms out on top of Mounting Pole.
- Rotate the Mounting Sleeve so that the Support Bar Pivot Tab is pointing north and the Strongback Vertical Towers are leaning south.
- Secure the Mounting Sleeve by tightening the six 1/2" Set Bolts. **Torque each Set Bolt to 55-60 ft.-lbs.**

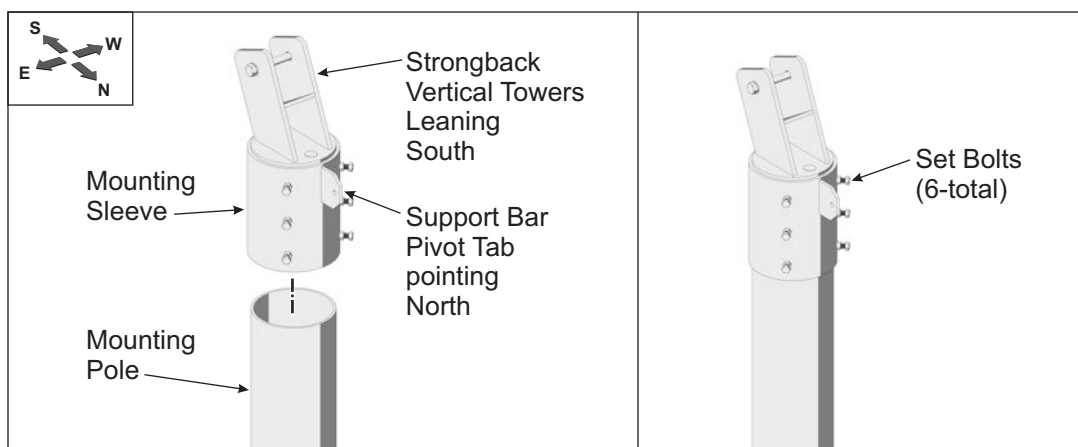


Figure 1-1: Installing the Mounting Sleeve

Step 2: Install the Strongback to the Mounting Sleeve

NOTE:

Although this system offers seven elevation set points, for ease of assembly, set the angle to its lowest setting of 0-degrees. Optimum tilt setting of the rack will take place later in these instructions.

The Strongback is attached to the Mounting Sleeve using the Pivot Bolt that passes through its two Vertical Towers and the Support Bar. The Support Bar is attached to the Strongback on one end and the Support Bar Pivot Tab of the Mounting Sleeve on the other end using 1/2" hardware.

- Remove the Support Bar from the Strongback and re-install in the 0° elevation set point. Secure with the 1/2" hardware and finger tighten. (See Figure 2-1)

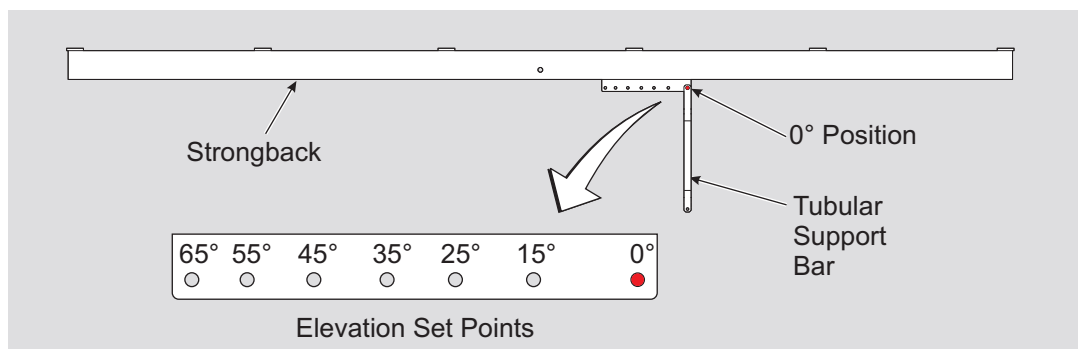


Figure 2-1: Positioning Support Bar

CAUTION:

This is a two person activity. The Strongback must be held in place by one person while the second person aligns it and secures it to the Mounting Sleeve using the Pivot Bolt and the 1" hardware. Failure to do so could lead to serious personal injury.

- B. Remove the Pivot Bolt from the Mounting Sleeve and collect the 1/2" x 1-3/4" bolt, flat washers and lock washer needed to secure the Support Bar to its Pivot Tab on the Mounting Sleeve.
- C. Orient the Strongback to the Mounting Sleeve with its Lower Support Bar positioned on the same side of the Mounting Sleeve as the Support Bar Pivot Tab.
- D. Slide the Strongback between the two vertical mounting tabs, aligning the thru-hole of the Strongback with the holes of the two Vertical Towers.
- E. Insert the Pivot Bolt along with one flat washer through the one Vertical Tower and the Strongback exiting the second Vertical Tower on the opposite side. Secure with the remaining flat washer, lock washer and hex nut. For now, finger tighten only to allow movement for the next step.

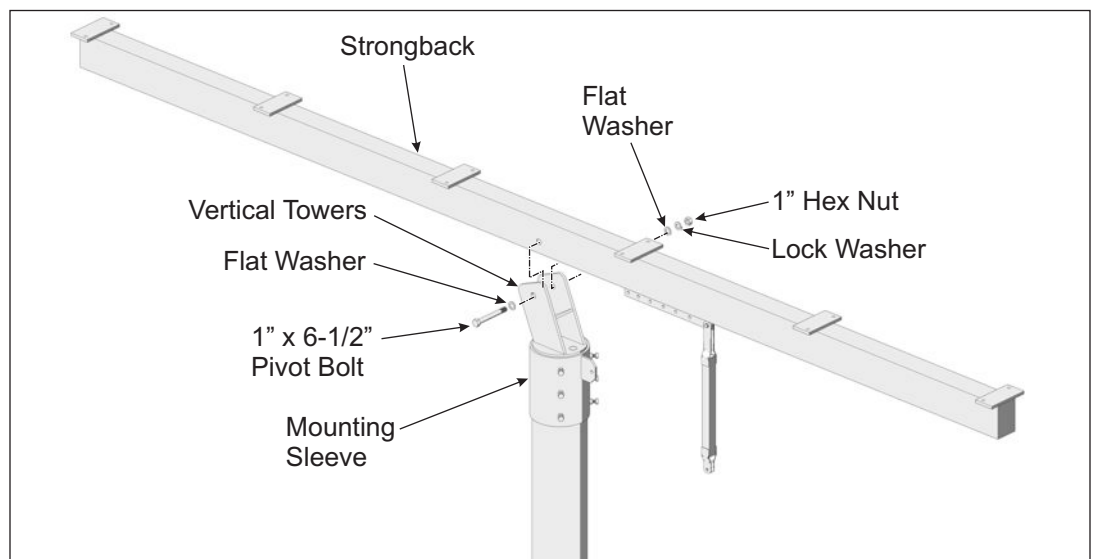


Figure 2-2: Installing the Strongback

- F. Pivot the Strongback and the Support Bar to align the mounting holes of the Support Bar with its Pivot Tab on the Mounting Sleeve. Slide the Support Bar over the Pivot Tab. Insert the 1/2" x 1-3/4" bolt and one flat washer thru the Support Bar and Mounting Tab and secure it with the remaining flat washer, lock washer and hex nut. **Torque hardware on both ends of Support Bar at 72-80 ft.-lbs.** (See Figure 2-3)

(continued on next page)



- G. Return and tighten the Pivot Bolt, The Pivot Bolt cannot be left loose - the Mounting Sleeve Vertical Towers must be firmly clamped to the sides of the Strongback eliminating any gaps between the Vertical Towers and the Strongback. **Torque to 330-350 ft.-lbs.** (See Figure 2-4)

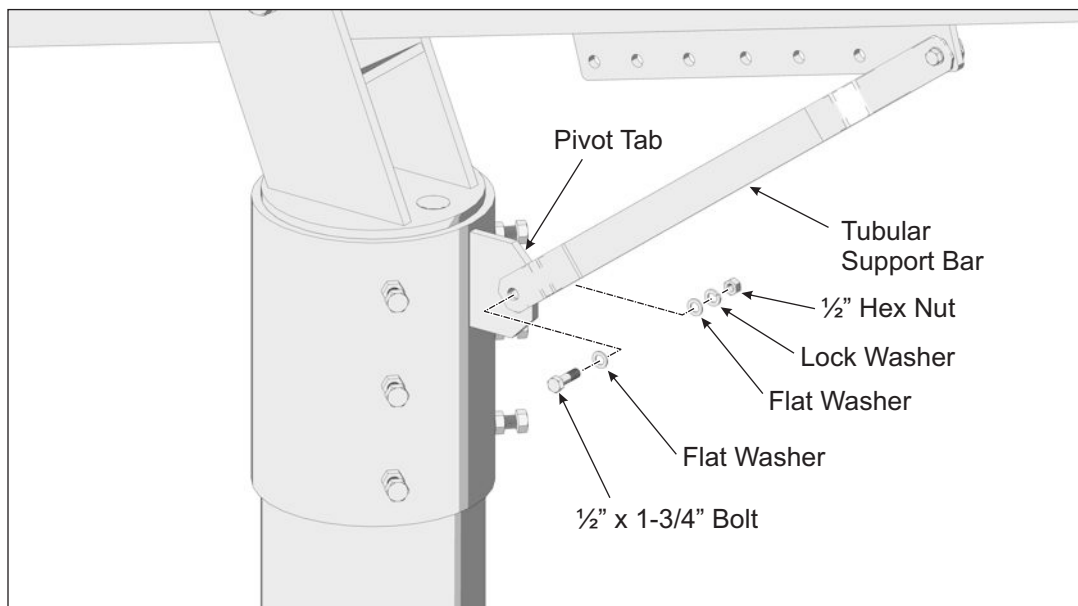


Figure 2-3: Securing Support Bar to Mounting Sleeve

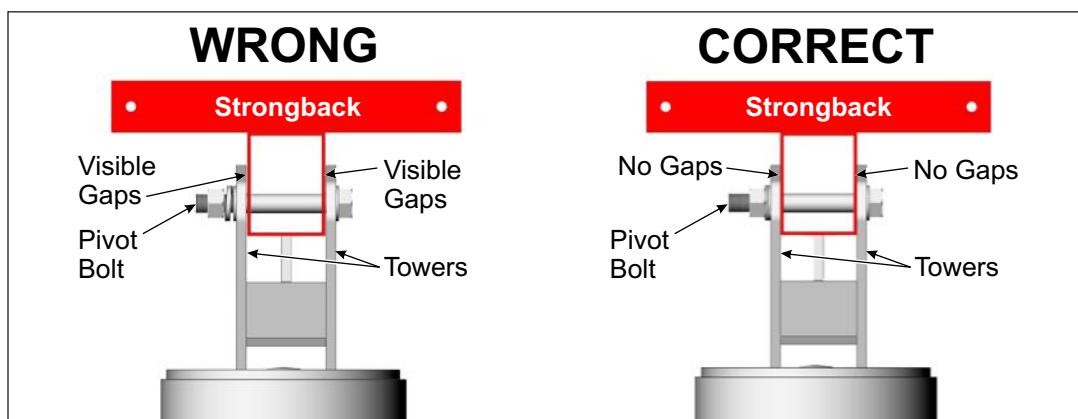


Figure 2-4: Tighten and Torque the Pivot Bolt

Step 3: Install the Rail Angles to the Strongback

Rail Angles run in an E-W direction and are secured to the rail plates (welded to the Strongback) using the 1/2" x 1-3/4" bolts and hardware. Proper orientation of the Rail Angles to the Strongback is very important, follow these instructions carefully (See Figures 3-1 & 3-2). There are 6 Rail Angles to install.

- A. Referring to Figure 3-1 for orientation of the Rail Angles position the Rail Angle on the Rail Plate of the Strongback and secure with 1/2" x 1-3/4" bolts and hardware. Finger tighten for now. (See also Figure 3-2)

NOTE:

Be certain that the orientation of the Rail Angles to the Strongback match these instructions.

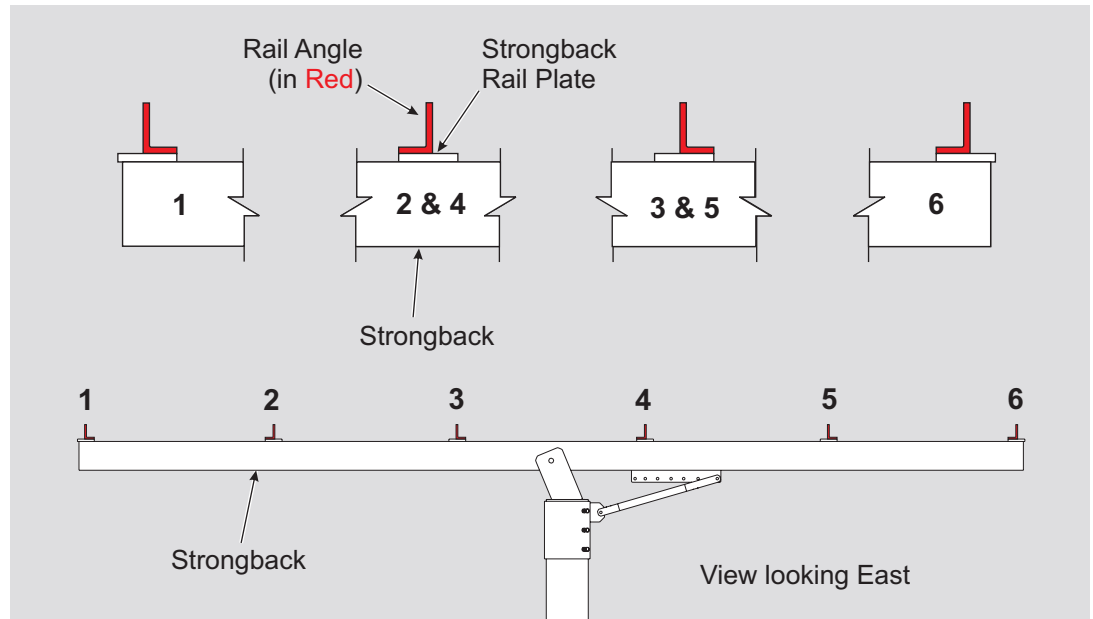


Figure 3-1: Orientation of Rail Angles to Strongback

NOTE:

Finger-tighten the Rail Angles to the Strongback while installing. After PV Modules are installed, re-tighten to specified torque values.

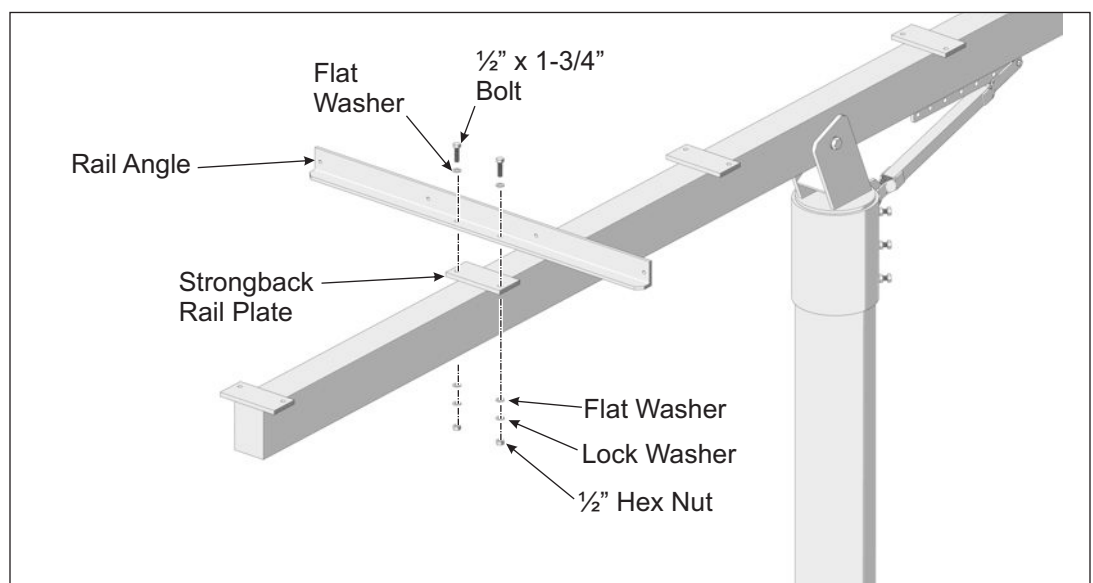


Figure 3-2: Installing Rail Angles to Strongback



Step 4: Install the Module Rails to the Rail Angles

CAUTION:

This is a two person activity. Module Rails are unstable before they are fully secured to the Rail Angles. Module Rails must be held in place by one person while the second person aligns and secures them to the Rail Angles. Failure to do so could lead to serious personal injury.

NOTE:

Be certain that the orientation of the Module Rails to the Rail Angles match these instructions.

Module Rails run in an E-W direction and are secured to the Rail Angles using 3/8" x 1-1/4" bolts and hardware. There are 6 Module Rails to install.

Module Rails must also be properly oriented to the Strongback; if not the PV Modules will not align to the mounting holes of the Module Rails. (See Figure 4-1)

Start by installing the northern Module Rail first and work southward.

- Referring to Figure 4-1 for orientation of the inboard Module Rails, position the first section of Module Rail (with its angle cut end positioned north) at the northern most position on the Cross-Bars. Align the Module Rail mounting holes with the holes of the Cross-Bar mounting tabs and secure with 3/8" x 1-1/4" bolts and hardware. Finger-tighten for now. (See also Figure 4-2)
- Continue in this manner installing the five remaining Module Rails.

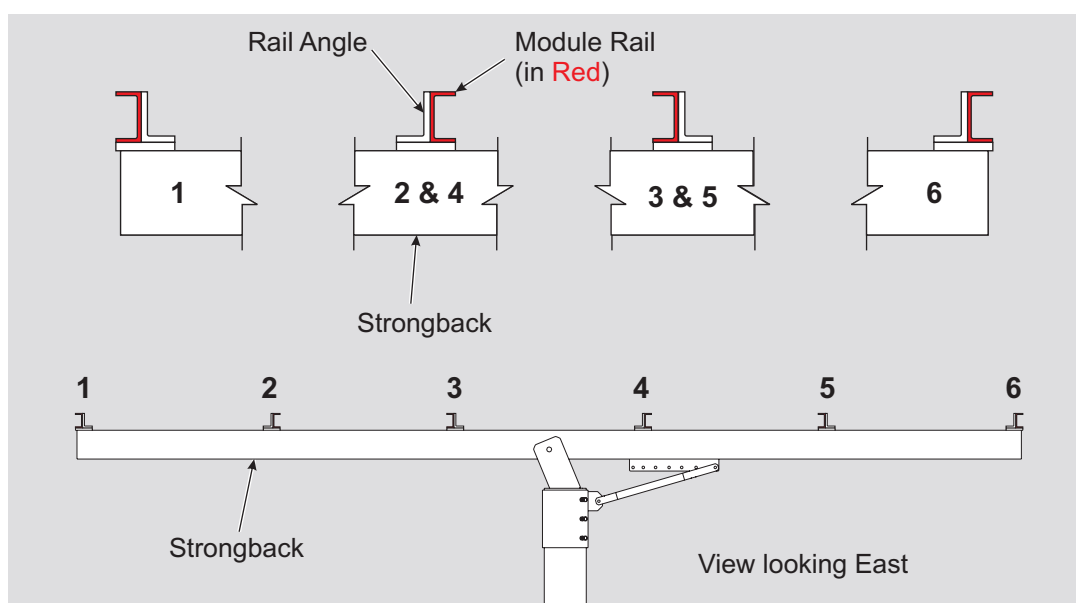


Figure 4-1: Orientation of Module Rails to Strongback

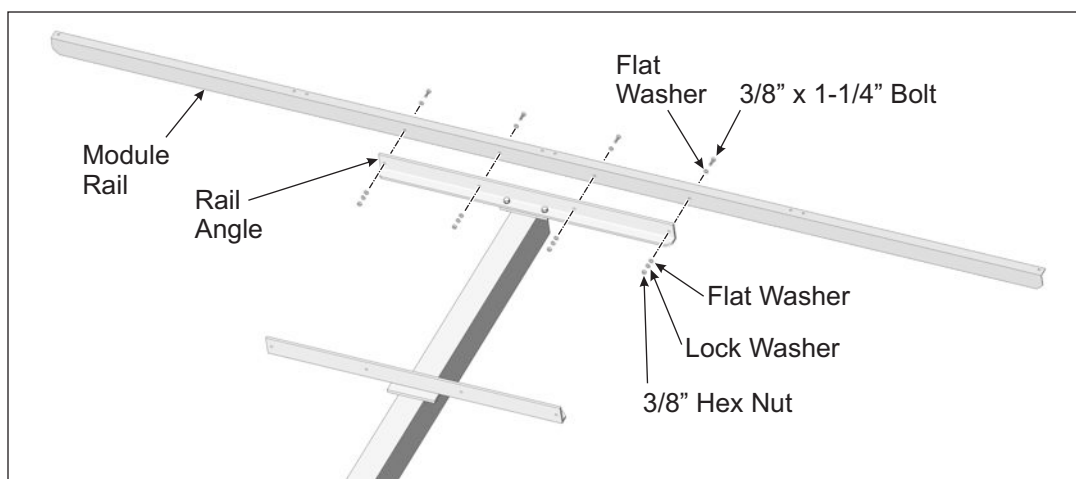


Figure 4-2: Installing Module Rail to Rail Angle

Step 5: Installing PV Modules to Module Rails

PV Modules are secured to the Module Rails using 1/4" x 3/4" bolts and hardware.

Start with the interior PV Modules and work outward. This will simplify the process and make it safer by eliminating the need to reach over exterior Modules to install the interior Modules.

- A. Place an interior PV Module on the Module Rails. Align the mounting holes and secure with 1/4" x 3/4" bolts and hardware; each Module has four attachment points. Finger-tighten for now. (See Figure 5-1)

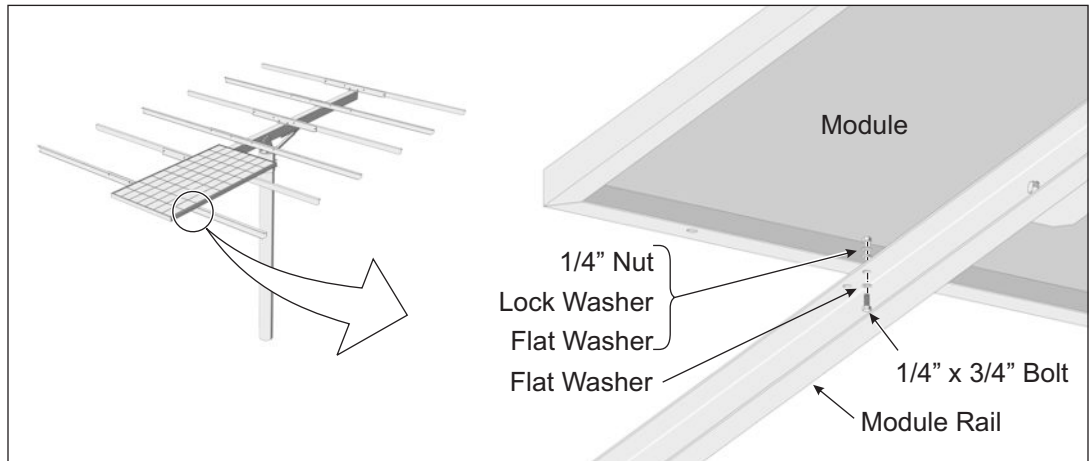


Figure 5-1: Installing PV Modules to Module Rails

- B. Continue in this manner to install all southern most PV Modules first and then work in a northern direction installing the remaining Modules.

Step 6: Now return and tighten mounting hardware.

- A. Return and tighten each set of the 1/2" mounting hardware, securing the Rail Angles to the Rail Plates of the Strongback **Torque all at 72-80 ft.-lbs.**
- B. Return and tighten each set of the 3/8" mounting hardware, securing the Module Rails to the Rail Angles. **Torque all at 32-34 ft.-lbs.**
- C. Return and tighten each set of 1/4" mounting hardware, securing the PV Modules to the Module rails. **Torque all at 6-8 ft.-lbs.**

CAUTION:

This is a two person activity. PV Modules are heavy and unstable before they are fully secured to the Module Rails. PV Modules must be held in place by one person while the second person aligns and secures them to the Module Rails. Failure to do so could lead to serious personal injury and damaged components.

CAUTION:

Be certain to re-tighten all Rail Angle, Module Rail and PV Module mounting hardware and torque to the specified values. Failure to do so could lead to structural failure, damaged components and/or serious personal injury.

Step 7: Adjust the Tilt Angle of the Rack

WARNING:

Do not attempt to remove the Pivot Bolt during tilt adjustments! Removal could lead to serious personal injury or death. Adjustments are made with the Pivot Bolt hardware loosened but in place.

CAUTION:

This is a two person activity. As the Pivot Bolt is loosened and the Support Bar hardware is removed, the rack is heavy and unstable. The rack must be held in place by one person while the second person loosens and removes the hardware and then re-installs/tightens the hardware back in place. Failure to do so could lead to serious personal injury and damaged components.

To adjust the tilt angle, loosen the Pivot Bolt hardware and removing the Support Arm upper hardware attaching the Support Arm to the Strongback. Use great care in this procedure as it can be dangerous if the procedure is not completed as described with a minimum of two people.

- A. While one person holds the south edge of rack, the other loosens the Pivot Bolt and removes the upper 1/2" hardware attaching the Support Bar to the Strongback. (See Figure 7-1)

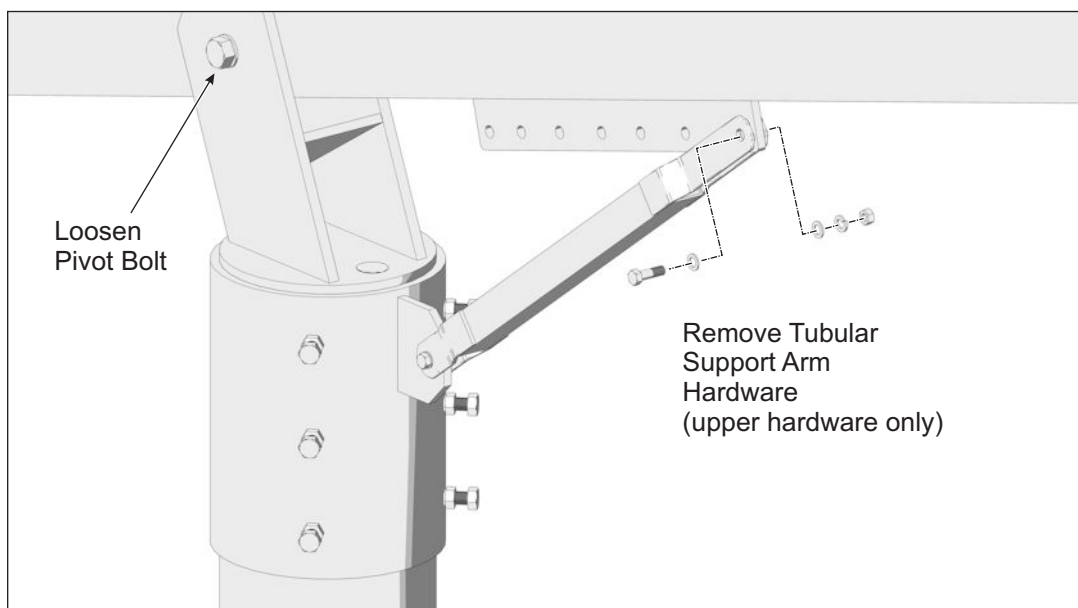


Figure 7-1: Preparing to Adjust the Tilt Angle

- B. Tilt the rack to the desired elevation angle (15°, 25°, 35°, 45°, 55°, or 65°) and re-attach the Support Bar to the Strongback placing the 1/2" hardware in the appropriate hole matching the desired elevation. **Torque to 72-80 ft.-lbs.** (See Figure 7-2)

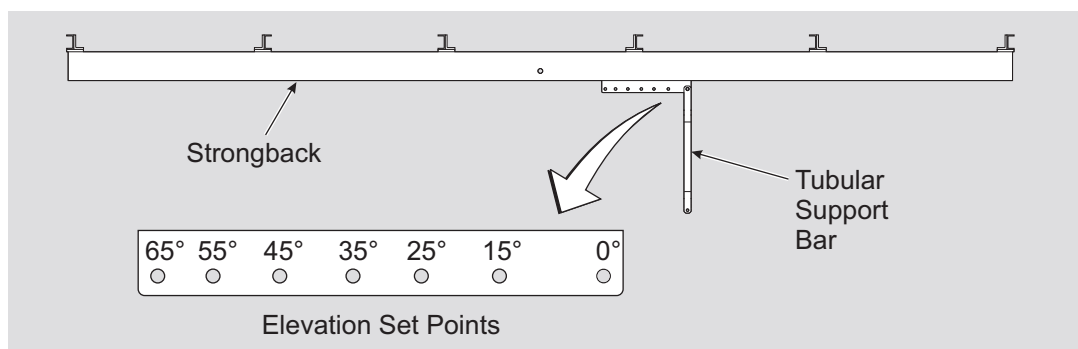


Figure 7-2: Setting the Tilt Angle

(continued on next page)

- C. Re-tighten the Pivot Bolt. After changing the tilt angle and tightening the Support Bar hardware, the Pivot Bolt must be re-tightened. The Pivot Bolt cannot be left loose - the Mounting Sleeve Vertical Towers must be firmly clamped to the sides of the Strongback, eliminating any gaps between the Vertical Towers and the Strongback. **Torque to 330-350 ft.-lbs.** (See Figure 7-3)

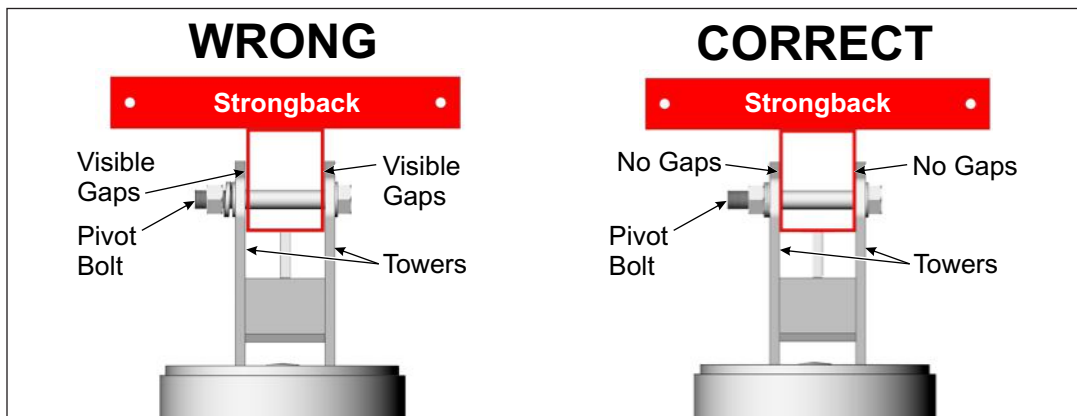


Figure 7-3: Tighten and Torque the Pivot Bolt

Invoice

Emerald Mountain Energy, Inc
P.O. Box 771586
Steamboat Springs, CO 80477
970.819.1264
emeraldmountainenergy@zirkel.us
emeraldmountainenergy@zirkel.us

Bill To
Fair & Square/Ron Davies Black Dog Holdings, LLC Andy & Carmen Ostrognia 56010 Hanna's Way Clark, CO 80428

Date	Invoice No.	P.O. Number	Terms	Project
08/10/16	269			

Item	Description	Quantity	Rate	Amount
Construction Management	EME design for permit docs	16	45.00	720.00
Solarworld 315-Silver	Solarworld 325- Blk 7.8 kW array	24	346.00	8,304.00T
SMA Sunny Boy 8000 TL Inverter	SMA Sunny Boy 8000-TL-US-12 Inverter	1	3,050.00	3,050.00T
EME Install Labor	EME Install Labor -modules and inverter	72	28.00	2,016.00
Direct Power TPM12-G Mod	Direct Power TPM12-H Mod	2	3,993.99	7,987.98T
Steel Pole 8" Sch 80 10'	Steel Pole 8" Sch 80 10' (\$42.69/ft)	2	1,280.00	2,560.00T
Steel Pole 8" Sch 80 10'	Steel 1" plate 18"x18"/bolts	2	72.60	145.20T
EME Contract Labor	Eme Contract Labor - Axis Steel shop time	6	75.00	450.00
Dirt work - TPM	Dirt work- auger, trenching, forms & concrete, sonotube, rebar - TBD Fair & Square		0.00	0.00
EME Install Labor	EME Install Labor - install of poles, racking	72	28.00	2,016.00
Payments/Credits				\$0.00
Balance Due				\$33,564.08
Wiring	Wiring Package/Conduit/Fittings - TBD when distance from poles to house can be estimated		800.00	800.00T
Subtotal				\$33,564.08
Sales Tax (0.0%)				\$0.00
Total				

Invoice

Emerald Mountain Energy, Inc
P.O. Box 771586
Steamboat Springs, CO 80477
970.819.1264
emeraldmountainenergy@zirkel.us
emeraldmountainenergy@zirkel.us

Bill To
Fair & Square/Ron Davies Black Dog Holdings, LLC Andy & Carmen Ostrognia 56010 Hanna's Way Clark, CO 80428

Date	Invoice No.	P.O. Number	Terms	Project
08/10/16	269			

Item	Description	Quantity	Rate	Amount
AC Disconnect Square D DU222RB	AC Disconnect Square D DU222RB	1	45.00	45.00T
Grounding lugs	Grounding lugs	36	5.10	183.60T
Module Clips	Module Clips	150	0.45	67.50T
Soladeck Combiner Box	Soladeck Combiner Box 600VDC 120A	1	118.80	118.80T
Electrical Permit/labor	Electrical permit /electrician labor (To be bid by Aspen Electric)		1,400.00	1,400.00
Structural Engineering	Structural Engineering		500.00	500.00
Building Permit	Building Permit		500.00	500.00
EME Project Management	EME Project Management	45	60.00	2,700.00
	Estimated 30% Federal Tax Credit = \$10,430 Estimated Cost of system after incentives = \$24,334			
Payments/Credits				\$0.00
Balance Due				\$33,564.08
Subtotal				\$33,564.08
Sales Tax (0.0%)				\$0.00
Total				\$33,564.08

Sunmodule®

SW 325 XL MONO (33mm frame)



TUV Power controlled:
Lowest measuring tolerance in industry



Every component is tested to meet
3 times IEC requirements



Designed to withstand heavy
accumulations of snow and ice



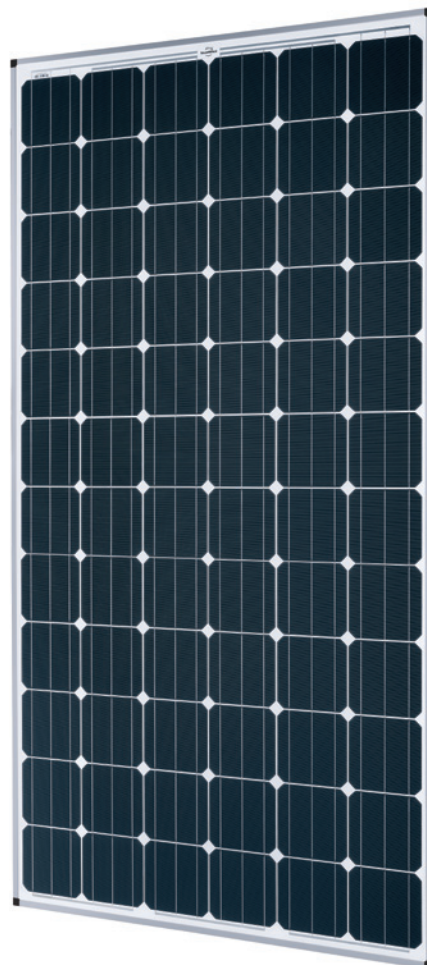
Sunmodule Plus:
Positive performance tolerance



25-year linear performance warranty
and 10-year product warranty



Glass with anti-reflective coating



World-class quality

Fully-automated production lines and seamless monitoring of the process and material ensure the quality that the company sets as its benchmark for its sites worldwide.

SolarWorld Plus-Sorting

Plus-Sorting guarantees highest system efficiency. SolarWorld only delivers modules that have greater than or equal to the nameplate rated power.

25-year linear performance guarantee and extension of product warranty to 10 years

SolarWorld guarantees a maximum performance digression of 0.7% p.a. in the course of 25 years, a significant added value compared to the two-phase warranties common in the industry, along with our industry-first 10-year product warranty.*

*in accordance with the applicable SolarWorld Limited Warranty at purchase.
www.solarworld.com/warranty



- Qualified, IEC 61215
- Safety tested, IEC 61730
- Blowing sand resistance, IEC 60068-2-68
- Ammonia resistance, IEC 62716
- Salt mist corrosion, IEC 61701
- Periodic inspection



- Periodic inspection
- Power controlled



Sunmodule®

SW 325 XL MONO (33mm frame)



PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

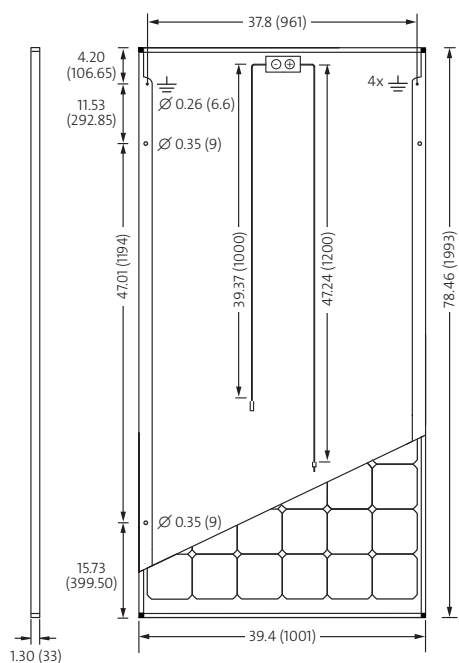
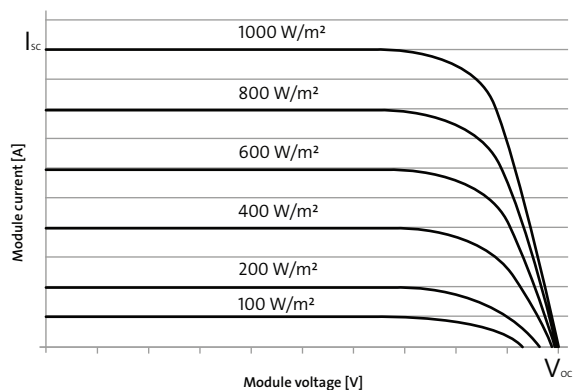
Maximum power	P_{max}	325 Wp
Open circuit voltage	V_{oc}	46.1 V
Maximum power point voltage	V_{mpp}	37.0 V
Short circuit current	I_{sc}	9.48 A
Maximum power point current	I_{mpp}	8.84 A
Module efficiency	η_m	16.29 %

*STC: 1000 W/m², 25°C, AM 1.5

1) Measuring tolerance (P_{max}) traceable to TUV Rheinland: +/- 2% (TUV Power Controlled).

THERMAL CHARACTERISTICS

NOCT	46 °C
TC I_{sc}	0.042 %/°C
TC V_{oc}	-0.304 %/°C
TC P_{mpp}	-0.43 %/°C
Operating temperature	-40°C to 85°C



PERFORMANCE AT 800 W/m², NOCT, AM 1.5

Maximum power	P_{max}	247.7 Wp
Open circuit voltage	V_{oc}	40.2 V
Maximum power point voltage	V_{mpp}	34.0 V
Short circuit current	I_{sc}	7.88 A
Maximum power point current	I_{mpp}	7.28 A

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m², 100% (+/-2%) of the STC efficiency (1000 W/m²) is achieved.

COMPONENT MATERIALS

Cells per module	72
Cell type	Mono crystalline
Cell dimensions	6.17 in x 6.17 in (156.75 x 156.75 mm)
Front	Tempered glass (EN 12150)
Frame	Clear anodized aluminum
Weight	47.6 lbs (21.6 kg)

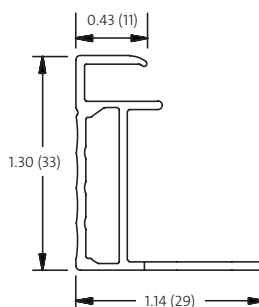
SYSTEM INTEGRATION PARAMETERS

Maximum system voltage SC II / NEC		1000 V
Maximum reverse current		25 A
Number of bypass diodes		3
Design Loads*	Two rail system	113 psf downward 64 psf upward
Design Loads*	Edge mounting	178 psf downward 23 psf upward

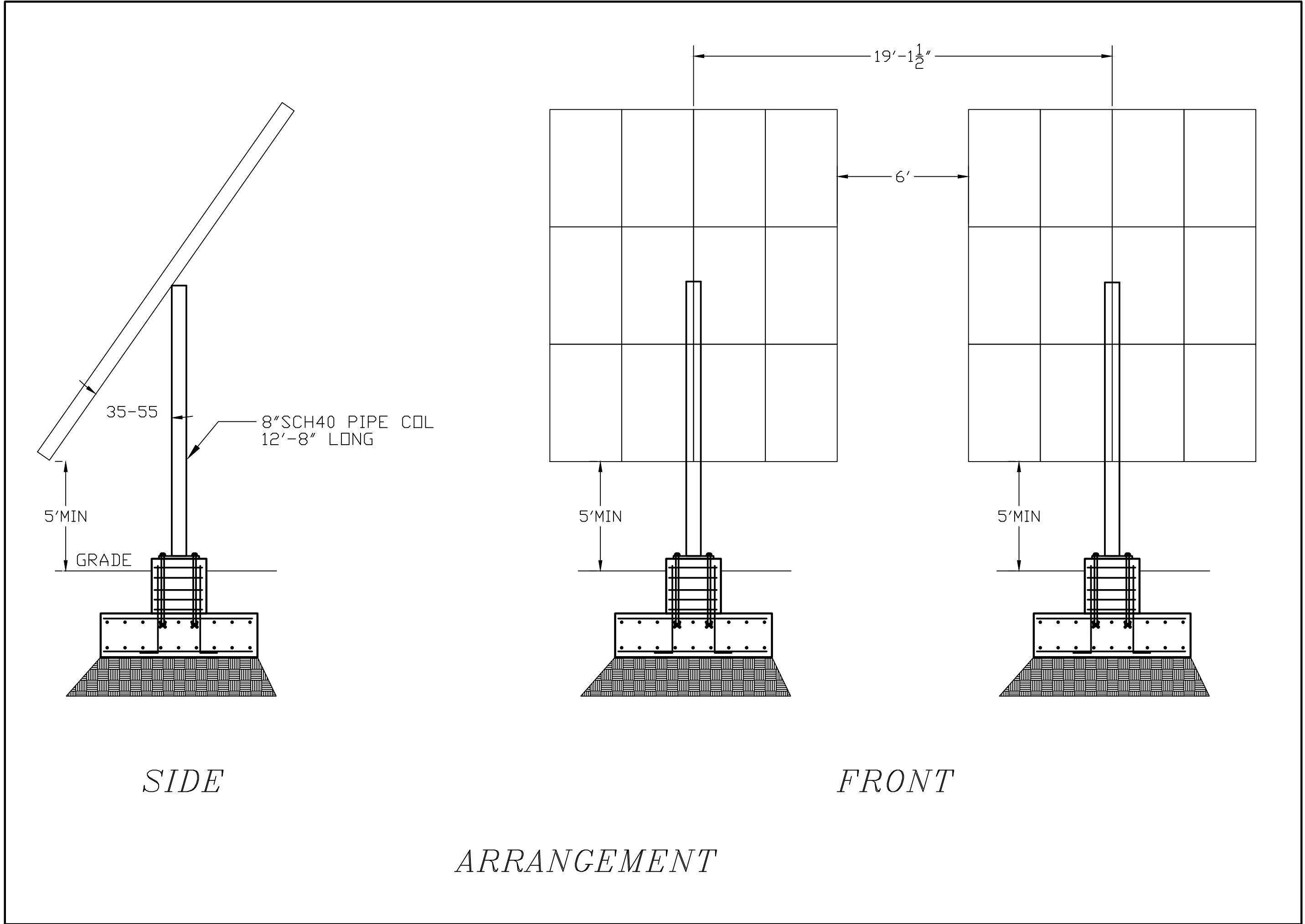
* Please refer to the Sunmodule installation instructions for the details associated with these load cases.

ADDITIONAL DATA

Power sorting	-0 Wp / +5 Wp
J-Box	IP65
Module leads	PV wire per UL4703 with H4 connectors
Module type (UL 1703)	1
Glass	Low iron tempered with ARC



- Compatible with both "Top-Down" and "Bottom" mounting methods
- ⚡ Grounding Locations:
 - 4 locations along the length of the module in the extended flange.



GENERAL STRUCTURAL NOTES

- DESIGN LIVE & SNOW LOADS
- ROOF, UNCOVERED DECK.....100 psf snow
 - WIND.....90 mph Exp B
 - SEISMIC..... $S_s=0.26g$ $S_1=0.068g$ Group I Category II

FOUNDATION DESIGN

- Design of pads and footings is based on an allowable soil bearing pressure of 3500 psf with 1000 psf minimum per SoilLogic Report 14-4004 dated 10/2/14. Contact the soils engineer during excavation to verify structural concrete has been placed on suitable bearing material.
- See soils report for additional information including slab, footer and pad information, underslab prep, perimeter drain, surface drainage and grading backfill, curtain walls, and discussions or disclaimers on expansive soils, slab movement, slope stability or site suitability.
- The owner should review the soils report for limitations and risks. All soils issues should be addressed to the soils engineer. The owner or his representative are responsible for following the soils report, contacting the soils engineer, and following their recommendations.
- The structural design drawings are for the permanent foundation only. The structural engineer is not responsible for slope stability, excavation, shoring, drainage, soils issues, or construction methods. The structural engineer's duties are limited to design only and is not a project engineer.

CONCRETE

- Concrete to have a minimum compressive strength of 3000 psi and be reinforced with Grade 60 bar except as noted on drawing.
- All bars continuous unless noted. Additional lap splices permitted with written approval only. All splices to be a minimum of 38 bar diameters.

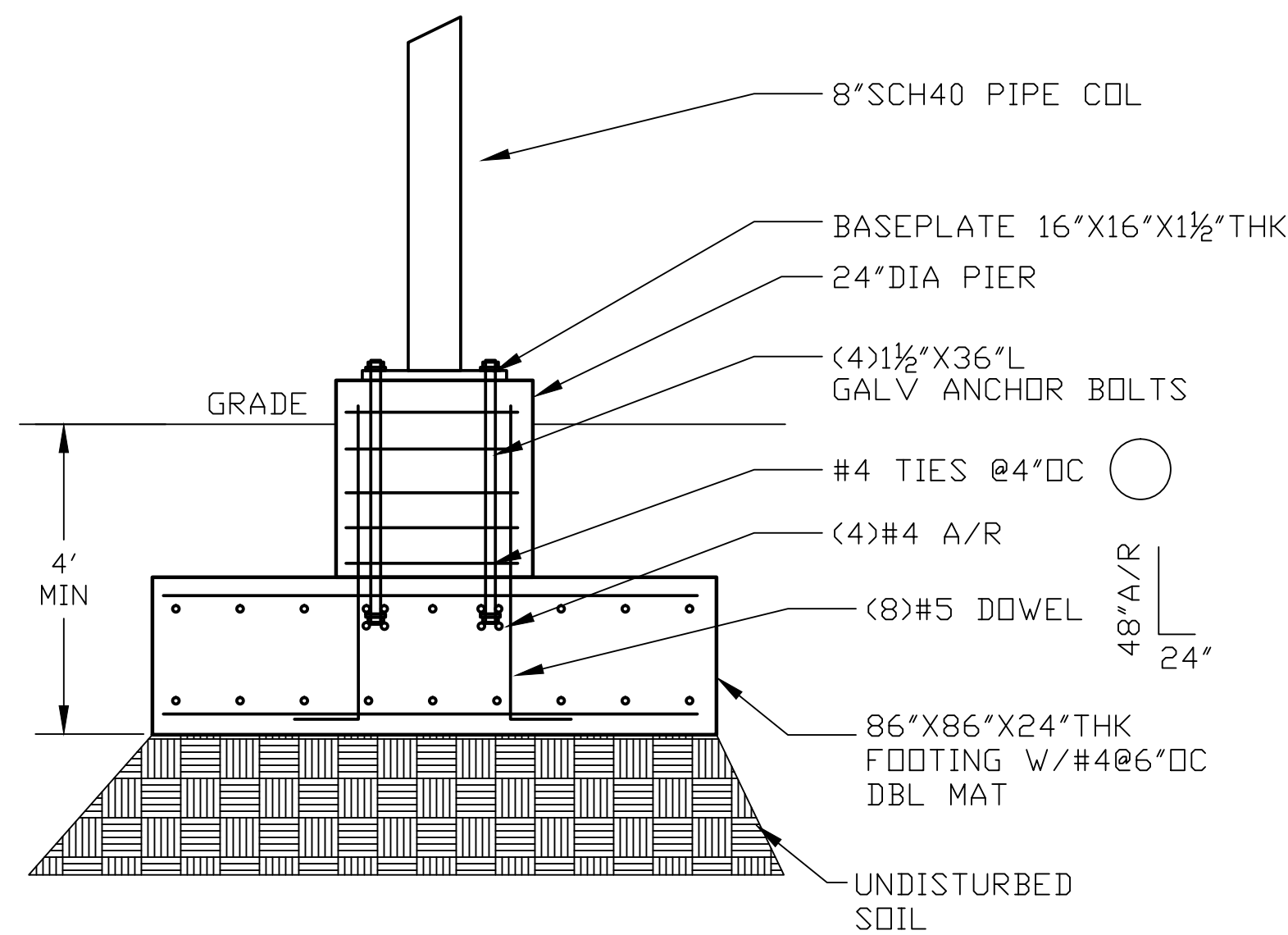
STRUCTURAL STEEL

- All bolts, including anchor bolts, shall conform to ASTM Specification A307.
- Structural steel rolled shapes, including plates and angles shall be ASTM A36. Tube shapes shall conform to ASTM A500 Grade B, 46 ksi yield. Pipe shapes shall conform to ASTM A53 Grade B.
- Threaded anchor bolts may be extended through coupler.

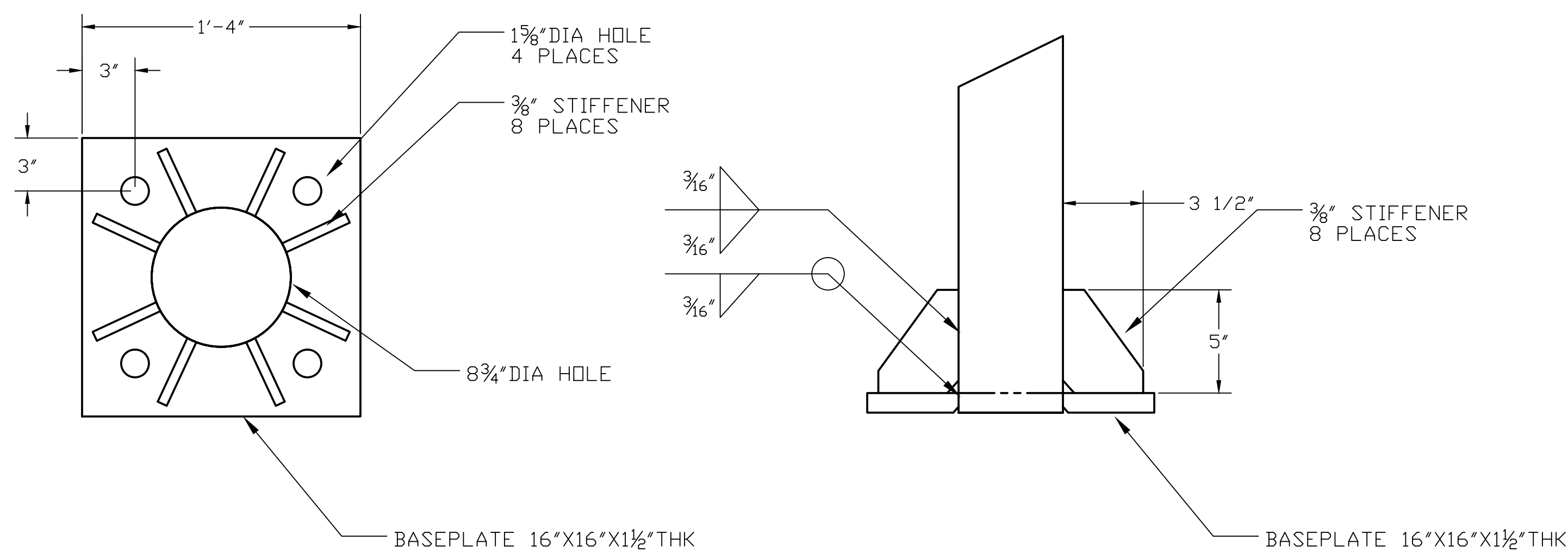
GENERAL

The contract structural drawings and specifications represent the finished structure. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not be limited to bracing and shoring for loads due to excavation, sliding soil, or construction equipment. Observation visits to the site by the design professionals shall not include inspection of the above items, nor will the design professionals be responsible for the contractor's means, methods, techniques, sequences for procedure of construction, or the safety precautions and the programs incident thereto.

RCRBD
RECORD SET



SOLAR PANEL FOUNDATION



BASEPLATE DETAILS

SOLAR PANEL FOUNDATION
BLACKDOG RESIDENCE
56010 HANNAH'S WAY
CLARK, CO

MICHAEL EHRLICH
STRUCTURAL ENGINEERING INC
6700 979 - 3866
PO BOX 72388 STEAMBOAT SPRINGS, CO

8/16/16

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