INSTALLATION NOTES

PARTS FOR PO PURCHASE (NOT OCCURRING IN GREAT PLAINS)	
QTY	MANUFACTURERS PART NUMBER AND DESCRIPTION
*	*
*	*
*	*
*	*
*	*

Record Set Stamp

05/10/2022

AHJ SPECIFICS:

Snow load: 85 psf
Wind speed: 115 mph
High Temp: N/A
Low Temp: N/A
Max Number of Modules per MCI: 10

DESIGNER NOTES:

Telsa Inverter DC Stringing Rules

- Min string length = 6
- Max string length = 37
- Avoid stringing PV arrays in series between mounting planes if possible; if needed only string within the same pitch & azimuth (+/– 3 degrees)
- Minimum module per MP or sub-array = 6
- Only string between stories if needed to meet sold system size
- Default to larger string sizes to minimize number of strings
- Avoid hard shading

Tesla MCI Rules

- (1) MCI between sub-strings if string spans between mounting planes or between stories
- (1) MCI at the start or end of a string
- (5) MCIs maximum allowed per string
- (1) MCI maximum per 10 Solar Roof modules in each string

INSTALLATION SPECIFICS:

Solar Roof Area (sqft): 3622

Alternative Roofing (not included in the BOM): NA

PV System Size: 13.752

Red Flags: None

Note: Valley tile reinforcement required.

Total array perimeter is 1883' if pest abatement is required
Material Hoist Required

SAFETY CONCERNS:

N/A

JOB NUMBER: JB–8042552 00	CUSTOMER: Kevin Daly 35040 Country Green Ln Steamboat Springs, CO 80487 303–808–5445	DESCRIPTION: 13.752 KW PV ARRAY PAGE NAME: INSTALLATION NOTES	DESIGN:		
MOUNTING SYSTEM: TESLA SOLAR ROOF			SHEET: SC 1	REV:	DATE: 4/26/2022
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC					
INVERTER: Multiple Inverters					

SAFETY PLAN

INSTRUCTIONS:

1. USE SYMBOLS IN KEY TO MARK UP JCO SHEET.
2. SAFETY PLANS MUST BE MARKED BEFORE JOB STARTS AS PART OF THE PRE-PLAN.
3. DOCUMENT ALL ADDITIONAL HAZARDS ON THIS PAGE & MAKE NOTES ON THE JCO SHEET

IN CASE OF EMERGENCY:

NEAREST HOSPITAL OR OCCUPATIONAL/INDUSTRIAL CLINIC

NAME_____

ADDRESS_____

SAFETY COACH CONTACT INFORMATION

NAME_____

PHONE_____

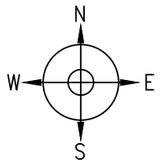
ALL EMPLOYEES ON SITE SHALL BE MADE AWARE OF THE SAFETY PLAN AND SIGN INDICATING THAT THEY ARE AWARE OF THE HAZARDS ON-SITE AND THE PLAN FOR WORKING SAFELY.

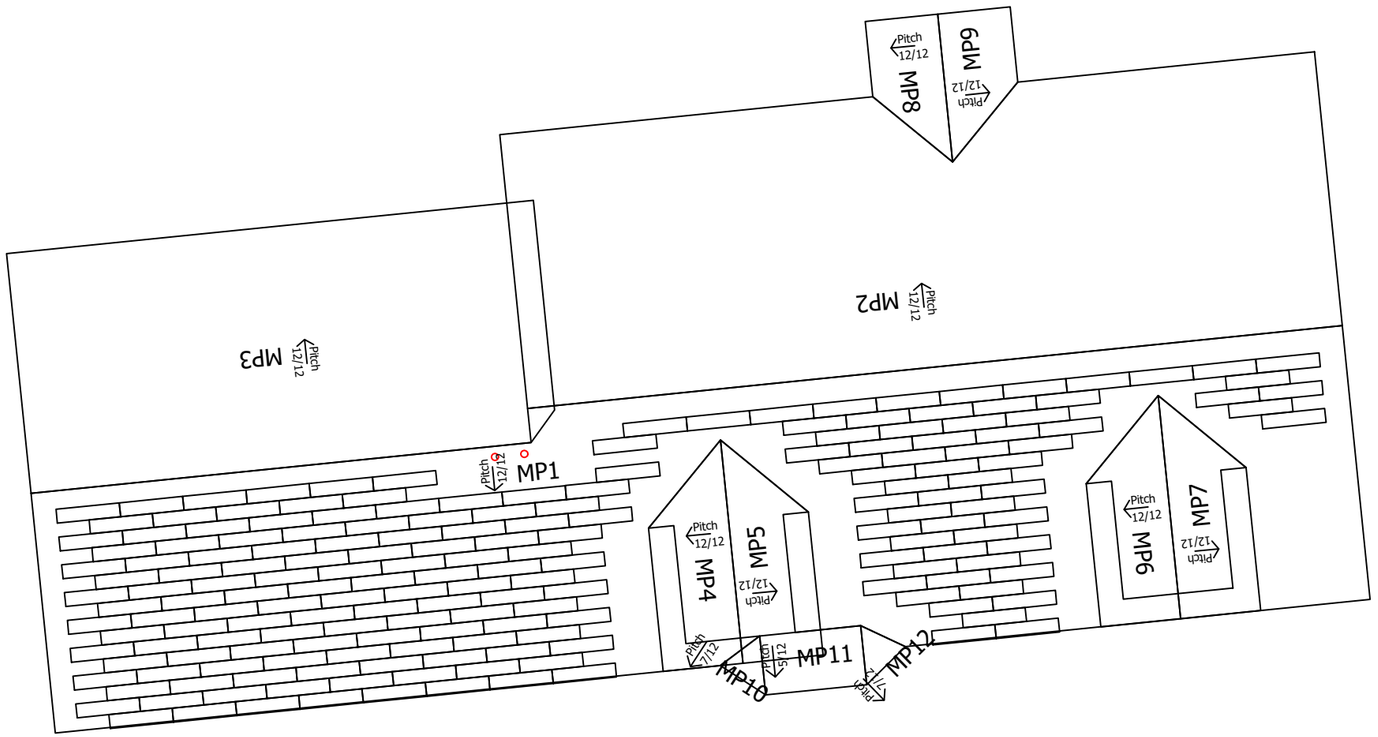
NAME	SIGNATURE
FALL COMPETENT	
ELECTRICAL QUALIFIED	

DATE:_____ TIME:_____

SELECT ELECTRICAL TIE IN METHOD

MAIN / SUB BREAKER/TAP





MP1 PITCH: 45° (12:12) ARRAY PITCH: 45° (12:12)
AZIMUTH: 174 ARRAY AZIMUTH: 174
MATERIAL: Solar Roof STORY: Two

Record Set Stamp
05/10/2022

MARK UP KEY

- (P) PERMANENT ANCHOR
- (T) TEMPORARY ANCHOR
- (D) DELINEATOR FOR WARNING LINE (LOW-SLOPE ROOF ONLY)
- (G) GUARD RAIL STANCHION (LOW-SLOPE ROOF ONLY)
- [IL] INSTALLER LADDER
- [AL] AUDITOR LADDER
- [B] JUNCTION/COMBINER BOX
- [S] STUBOUT
- SKYLIGHT
- NO LADDER ACCESS (STEEP GRADE OR GROUND LEVEL OBSTRUCTIONS)
- RESTRICTED AREA (TESLA EMPLOYEES ONLY)
- CONDUIT
- (Gas) GAS SHUTOFF
- (H_2O) WATER SHUTOFF
- (7) SERVICE DROP
- (Z) POWER LINES

JOB NUMBER: JB-8042552 00
MOUNTING SYSTEM: TESLA SOLAR ROOF
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC
INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

DESCRIPTION:
13.752 KW PV ARRAY

PAGE NAME:
SAFETY & HOUSING PLAN

DESIGN:

SHEET: SC 2
REV:
DATE: 4/26/2022

This is a worksheet for on-site use as needed. All information **must** be transferred/uploaded through the digital app for all jobs (including the 2 cell phone pics).

ELECTRICAL TESTING

Irradiance reading must be taken in the plane of array and at the same time as the I_{MP} and P_{AC} measurements.

INVERTER #1:				
SERIAL NUM:				
STRING:	1	2	3	4
V_{OC}				
I_{MP}				
IRRADIANCE				
Power (W) P_{AC}:				
INVERTER #2:				
SERIAL NUM:				
STRING:	1	2	3	4
V_{OC}				
I_{MP}				
IRRADIANCE				
Power (W) P_{AC}:				
INVERTER #3:				
SERIAL NUM:				
STRING:	1	2	3	4
V_{OC}				
I_{MP}				
IRRADIANCE				
Power (W) P_{AC}:				

JOB PHOTOS

Record Set Stamp

Take these photos with your phone.

05/10/2022

- ☐ Finished array photo (pullback)?
- ☐ String Diagram / Safety Plan?
- ☐ All inverter or meter labels.
- ☐ Picture of main disconnect in off position.
- ☐ Worker in electrical PPE testing the system or completing tie-in.
- ☐ All ladders set up.
- ☐ System used to raise modules to roof.
- ☐ Fall arrester or restraint with employees while in use.
- ☐ A hazard encountered that isn't noted in the SolarWorks case notes or mentioned in the project preplan.
- ☐ Unflashed, installed anchor.
- ☐ Flashed anchor.
- ☐ In process penetration.
- ☐ Combo / J box location / Wiring.
- ☐ Array wire management / grounding.
- ☐ Rafter upgrades.
- ☐ All electrical equipment wiring / grounding.
- ☐ All electrical equipment locations / working clearance.
- ☐ All conduit, including stubout.

Explain if any photos are missing:

JOB INFO

Did you walk customer through system operation?	Y / N	What and where is the grounding means?	Y / N
Does customer have the gateway connected?	Y / N		
Is grounding mechanism accessible for inspection?	Y / N		
Was placard installed?	Y / N		
Which ladders are required for roof access?	12 24 36		
Are there internal conduit runs?	Y / N		
Are there locked gates that need to be accessed?	Y / N		
Did we tie into an existing subpanel?	Y / N		
Does as-built match approved drawings?	Y / N	Are there punch list items remaining?	Y / N

JOB NUMBER: JB–8042552 00

MOUNTING SYSTEM: TESLA SOLAR ROOF

MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC

INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303–808–5445

DESCRIPTION: 13.752 KW PV ARRAY

PAGE NAME: JCO SHEET

DESIGN:

SHEET: SC 3 REV: DATE: 4/26/2022

JOB HAZARD ANALYSIS

Crew leader to fill out all sections below, hold a pre-job safety meeting with all personnel, and upload this completed document and the Safety Plan to the JCO.

Ladder Access

- Ladders must be non-conductive, inspected before each use.
- Extension ladders must be set up on a firm and level surface at a 4-to-1 rise-to-run angle (or 75 degrees) and the top must be secured to the structure. Extension style ladders placed on uneven, lose or slippery surfaces must additionally have the base firmly anchored or lashed so the base will not slip out.
- Extension ladders must be used with walk-through devices or the ladder must extend 36" above the stepping off point.
- A-frame ladders must only be climbed with the ladder spreader bars locked in the open position; A-frame ladders shall not be climbed while in the closed position (ex, closed and used while leaned against a structure).

• Additional Notes:

Mobile Equipment

- Only Qualified operators will operate equipment; operators must maintain a certification on their person for the equipment being operated.

• Type(s) of mobile equipment (type/make/model):
• Qualified operator(s):

Material Handling and Storage

- Materials will be staged/stored in a way that does not present a hazard to client, personnel or public. Materials stored on the roof will be physically protected from falling or sliding off.

Fall Protection

- A Site-specific plan for fall prevention and protection is required prior to starting work and must remain onsite at all times until work is complete; a fall rescue plan must be outlined and discussed among the crew prior to work start.
- The Competent Person is required to be onsite at all times while work at heights is ongoing.
- First-Person-Up (FPU) must install their anchor and connect before any other task, including installing other anchors. The Last-Person-Down (LPD) must be the only person on a roof uninstalling fall protection.

• FPCP (name and title):
• FPU and LPD (name and title):

Electrical Safety

- The Electrical Qualified Person (EQP) is required onsite to perform electrical work.
- All electrical work will be performed with equipment in an electrically safe condition (de-energized) unless approval has been granted prior to work start.
- Service drops and overhead electrical hazards will be identified and protected from contact, as necessary.

• EQP (name and title):

Public Protection

- The safety of the Client and the Public must be maintained at all times.
- The Client and the Public shall be prevented from entering the work zone through the use of barriers and/or signage, as required.
- Company, Client and Public property shall be protected from falling objects.
- Pets (including dogs) shall be secured by their owners prior to work start.
- The client should not leave pets, family members, or others in charge or care of Employees, Contractors, or Temporary Workers.

• Crew leader responsible for communication with the client:
• Pets barricaded away from work areas (N/A, Yes, No):
• Client and public is excluded from work area by barricades (N/A, Yes, No):

Training And Pre-Job Safety Briefing

- All employees onsite shall be made aware of the specific hazards of this project and review this JHA during a pre-job briefing, and their signature indicates awareness of site conditions and the plan to eliminate any hazards identified prior to and during the project.

• Crew Leader (name/title):
• Crew Member (name/title):
• Crew Member (name/title):
• Crew Member (name/title):
• Crew Member (name/title):
• Crew Member (name/title):
• Crew Member (name/title):

Airborne Contaminants:

- Asbestos-containing (Transite) piping (ACP) - Do not disturb (move, drill, cut, fracture, etc.)
- Asbestos-containing exterior building siding (ACS) - Only Asbestos Class III trained personnel can drill or cut into ACS material, and only for purposes of mounting BOS equipment; a completed Asbestos Work Permit is required onsite at all times prior to working with ACS.
- Asbestos-containing thermal insulation (ACI) and Asbestos-containing duct wrapping (ACW) - do not disturb; no attic or crawlspace access is allowed if work to be performed could cause exposure to personnel, client or public.

• Is work around ABC or ABC containing materials being conducted (N/A, Yes, No):
• If yes, list specific tasks and protection in place:

Weather and Environment

- The site supervisor shall forecast the weather conditions at the job site, prior to crew arrival, in order to mitigate any hazards associated with inclement weather (heat, cold, wind, rain, etc.).
- The site supervisor will utilize a portable wind meter (anemometer) to verify actual onsite wind conditions, by checking speed at the ground and on any elevated work surface (ex, rooftop) prior to work start, at midday and prior to solar panel staging on a roof.
- Elevated work involving the moving or maneuvering of solar panels shall cease at 25mph (sustained wind), until wind subsides.

• Forecasted weather maximum temp (degrees F):
• Measured wind speed (MPH ground):
• Measured wind speed (MPH roof):

Heat Related Illness Prevention

- Employees shall have access to potable drinking water that is fresh, pure, and suitably cool. The water shall be located as close as practicable to the areas where employees are working. Water shall be supplied in sufficient quantity at the beginning of the work shift to provide at least one quart per employee per hour for drinking for the entire shift. Employees may begin the shift with smaller quantities of water if they identify the location and have effective means for replenishment during the shift to allow employees to drink one quart or more per hour. The frequent drinking of water shall be encouraged.
- Shade shall be present when temperature exceeds 80 degrees Fahrenheit. When the outdoor temperature in the work exceeds 80 degrees Fahrenheit, employees shall have and maintain one or more areas with shade at all times.
- New employees must be acclimatized. New employees will be monitored by their Crew Leader (site supervisor) for the first two (2) weeks of employment or longer when necessary.
- Employees will be allowed and encouraged to implement scheduled breaks during each shift. Employees must take cool-down breaks in the shade any time they feel the need to do so to protect them from overheating. Supervisors are REQUIRED to allow employees any break period they need during high heat conditions.
- Cool Vests are encouraged for all employees at all times during periods of high heat.
- Identify the location of the closest Occupational/Industrial Clinic or Hospital in case a crew member becomes ill.

What is the specific plan to provide and replenish sufficient water for all employees onsite?

• If offsite replenish is necessary, where will you go to replenish water (location/address):
• Who will replenish the drinking water (name):

Restroom Facilities

- Employees shall have access to restroom facilities with hand-washing stations. Use of onsite restroom is at the client's discretion (location is noted below). If client does not give permission, location of suitable restroom facilities with hand-washing stations at an offsite will be provided. The onsite supervisor will identify location and make arrangements to ensure all employees have access at any point.

• Restroom facilities will be (circle one): Onsite - Offsite
• If offsite, add location name and address:

Reviewed for Code Compliance
05/10/2022

Incident Reporting Procedure

✓ Contact your Site Supervisor

o Name:

o Phone:

✓ Contact your Manger

o Name:

o Phone:

✓ Contact the Incident Hotline

o (650) 963-5678 - Follow the voice prompts and provide us with:

Your full name, phone number, office location, brief description of what happened and when.

NOTE ADDITIONAL HAZARDS NOT ADDRESSED ABOVE
(add as many as necessray by using additional sheets):

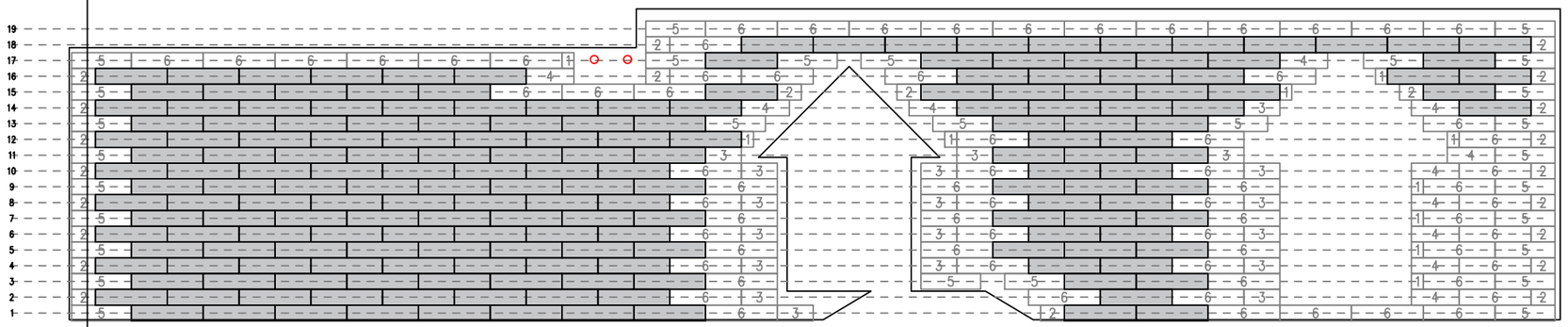
Define the hazard:	Method/steps to prevent incident:
Define the hazard:	Method/steps to prevent incident:

JOB NUMBER: JB-8042552 00	CUSTOMER: Kevin Daly 35040 Country Green Ln Steamboat Springs, CO 80487 303-808-5445	DESCRIPTION: 13.752 KW PV ARRAY PAGE NAME: JHA SHEET	DESIGN:	
MOUNTING SYSTEM: TESLA SOLAR ROOF			SHEET: SC 4	REV: DATE: 4/26/2022
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC				
INVERTER: Multiple Inverters				

PARTIAL TILE LOCATIONS NEAR EDGE CONDITIONS ARE ESTIMATED.
PLEASE VERIFY ACTUAL LENGTHS NEEDED ON SITE.

MP1	PITCH: 45° (12:12) ARRAY PITCH: 45° (12:12) AZIMUTH: 174 ARRAY AZIMUTH: 174 MATERIAL: Solar Roof STORY: Two

Record Set Stamp
05/10/2022



MP1			
SYMBOL	PART	WIDTH (INCHES)	QUANTITY
	MONOLITH PV	45 1/8	191
6	SINGLE	45 1/8	69
5	5/6	37 5/8	29
4	2/3	30 1/16	11
3	1/2	22 9/16	19
2	1/3	15 1/16	23
1	1/6	7 1/2	10
R	ROOF RACK	N/A	22

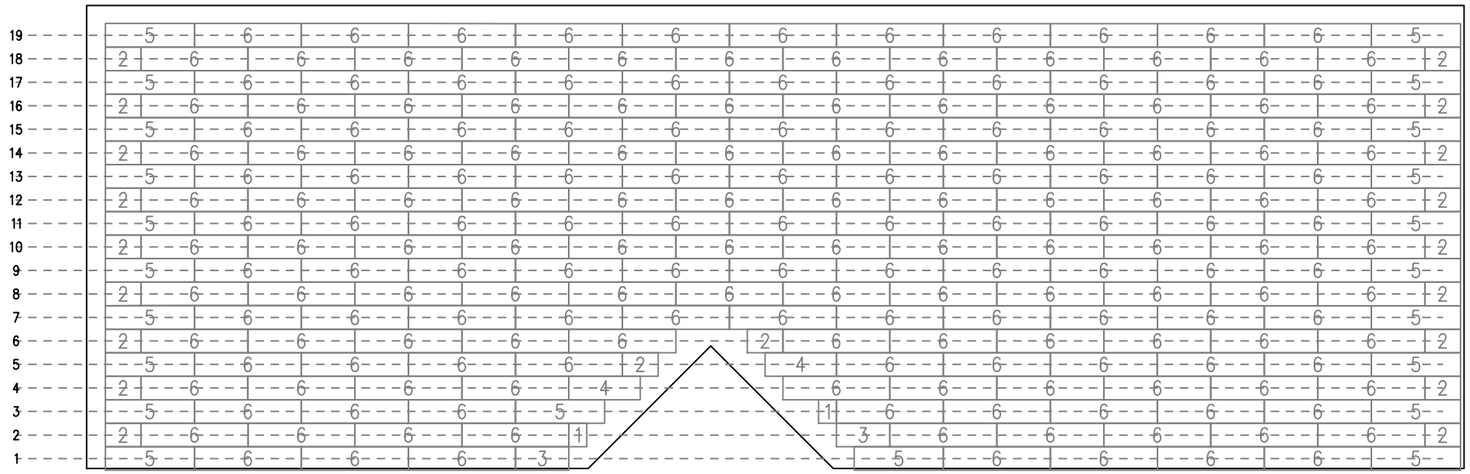
JOB NUMBER: JB-8042552 00	CUSTOMER: Kevin Daly 35040 Country Green Ln Steamboat Springs, CO 80487 303-808-5445	DESCRIPTION: 13.752 KW PV ARRAY	DESIGN:	
MOUNTING SYSTEM: TESLA SOLAR ROOF				
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC		PAGE NAME: MP1 TILE PLAN	SHEET: SC 5 REV: DATE: 4/26/2022	
INVERTER: Multiple Inverters				

PARTIAL TILE LOCATIONS NEAR EDGE CONDITIONS ARE ESTIMATED.
PLEASE VERIFY ACTUAL LENGTHS NEEDED ON SITE.

MP2	PITCH: 45° (12:12) ARRAY PITCH: 45° (12:12) AZIMUTH: 354 ARRAY AZIMUTH: 354 MATERIAL: Solar Roof	STORY: Two

Record Set Stamp

05/10/2022



MP2			
SYMBOL	PART	WIDTH (INCHES)	QUANTITY
	MONOLITH PV	45 1/8	0
6	SINGLE	45 1/8	203
5	5/6	37 5/8	22
4	2/3	30 1/16	2
3	1/2	22 9/16	2
2	1/3	15 1/16	20
1	1/6	7 1/2	2
R	ROOF RACK	N/A	17

JOB NUMBER: JB-8042552 00

MOUNTING SYSTEM: TESLA SOLAR ROOF

MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC

INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

DESCRIPTION: 13.752 KW PV ARRAY

PAGE NAME: MP2 TILE PLAN

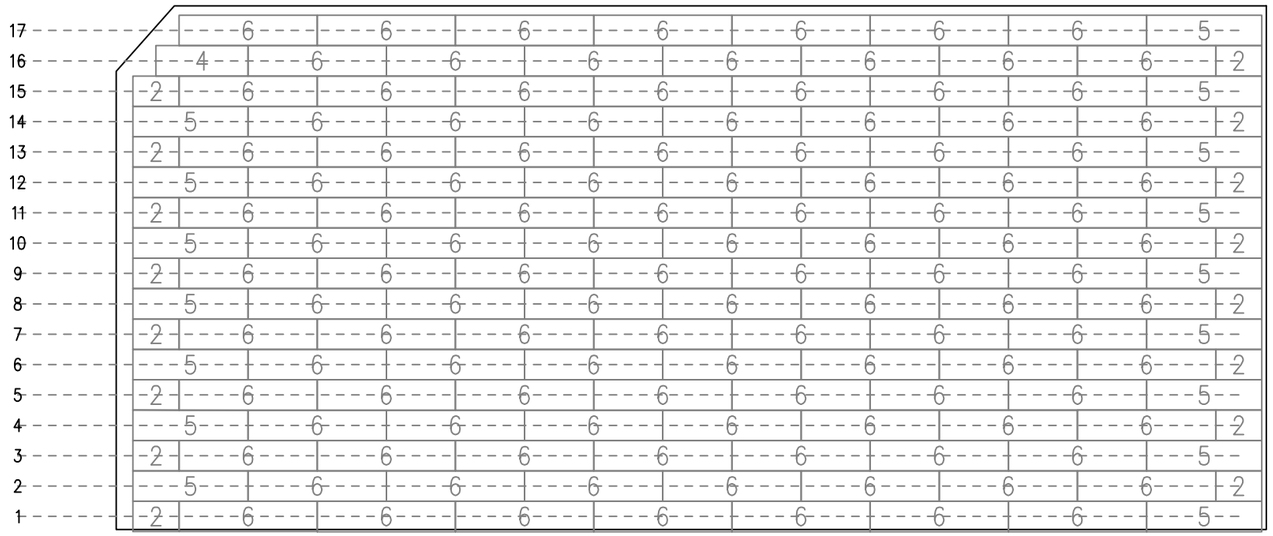
DESIGN:

SHEET: SC 6 REV: DATE: 4/26/2022

PARTIAL TILE LOCATIONS NEAR EDGE CONDITIONS ARE ESTIMATED.
PLEASE VERIFY ACTUAL LENGTHS NEEDED ON SITE.

MP3	PITCH: 45° (12:12) ARRAY PITCH: 45° (12:12) AZIMUTH: 354 ARRAY AZIMUTH: 354 MATERIAL: Solar Roof STORY: Two

Record Set Stamp
05/10/2022



MP3			
SYMBOL	PART	WIDTH (INCHES)	QUANTITY
	MONOLITH PV	45 1/8	0
6	SINGLE	45 1/8	119
5	5/6	37 5/8	16
4	2/3	30 1/16	1
3	1/2	22 9/16	0
2	1/3	15 1/16	16
1	1/6	7 1/2	0
R	ROOF RACK	N/A	10

JOB NUMBER: JB-8042552 00
MOUNTING SYSTEM: TESLA SOLAR ROOF
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC
INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

DESCRIPTION:
13.752 KW PV ARRAY

PAGE NAME:
MP3 TILE PLAN

DESIGN:

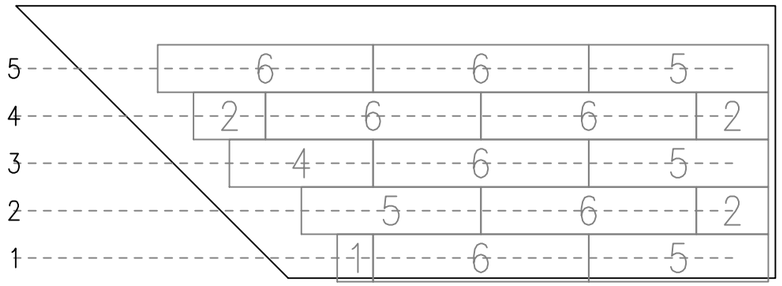
SHEET: SC 7
REV:
DATE: 4/26/2022

PARTIAL TILE LOCATIONS NEAR EDGE CONDITIONS ARE ESTIMATED.
PLEASE VERIFY ACTUAL LENGTHS NEEDED ON SITE.

MP4	PITCH: 45° (12:12) ARRAY PITCH: 45° (12:12) AZIMUTH: 264 ARRAY AZIMUTH: 264 MATERIAL: Solar Roof STORY: Two

Record Set Stamp

05/10/2022



MP4			
SYMBOL	PART	WIDTH (INCHES)	QUANTITY
	MONOLITH PV	45 1/8	0
6	SINGLE	45 1/8	7
5	5/6	37 5/8	4
4	2/3	30 1/16	1
3	1/2	22 9/16	0
2	1/3	15 1/16	3
1	1/6	7 1/2	1
R	ROOF RACK	N/A	1

JOB NUMBER: JB-8042552 00
MOUNTING SYSTEM: TESLA SOLAR ROOF
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC
INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

DESCRIPTION:
13.752 KW PV ARRAY

PAGE NAME:
MP4 TILE PLAN

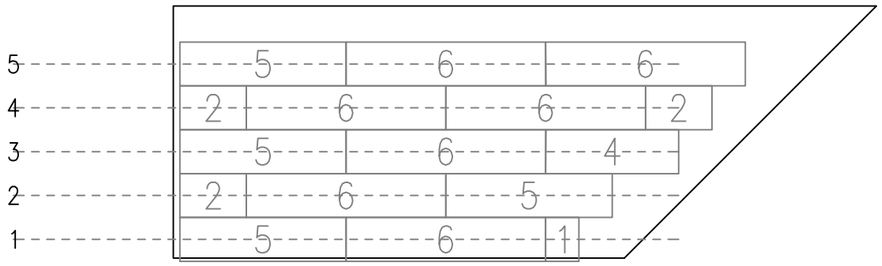
DESIGN:

SHEET: SC 8
REV:
DATE: 4/26/2022

PARTIAL TILE LOCATIONS NEAR EDGE CONDITIONS ARE ESTIMATED.
PLEASE VERIFY ACTUAL LENGTHS NEEDED ON SITE.

MP5	PITCH: 45° (12:12) ARRAY PITCH: 45° (12:12) AZIMUTH: 84 ARRAY AZIMUTH: 84 MATERIAL: Solar Roof STORY: Two

Record Set Stamp
05/10/2022



MP5			
SYMBOL	PART	WIDTH (INCHES)	QUANTITY
	MONOLITH PV	45 1/8	0
6	SINGLE	45 1/8	7
5	5/6	37 5/8	4
4	2/3	30 1/16	1
3	1/2	22 9/16	0
2	1/3	15 1/16	3
1	1/6	7 1/2	1
R	ROOF RACK	N/A	1

JOB NUMBER: JB-8042552 00
MOUNTING SYSTEM: TESLA SOLAR ROOF
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC
INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

DESCRIPTION:
13.752 KW PV ARRAY

PAGE NAME:
MP5 TILE PLAN

DESIGN:

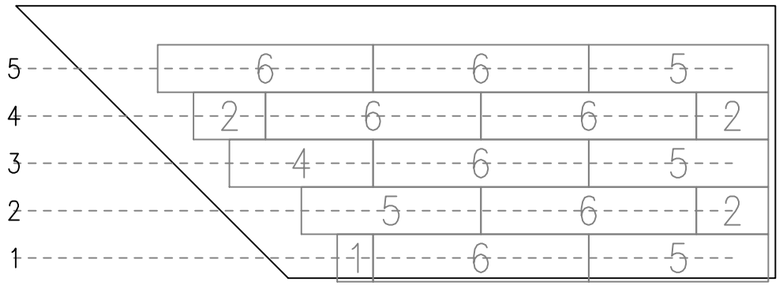
SHEET: SC 9
REV:
DATE: 4/26/2022

PARTIAL TILE LOCATIONS NEAR EDGE CONDITIONS ARE ESTIMATED.
PLEASE VERIFY ACTUAL LENGTHS NEEDED ON SITE.

MP6	PITCH: 45° (12:12) ARRAY PITCH: 45° (12:12) AZIMUTH: 264 ARRAY AZIMUTH: 264 MATERIAL: Solar Roof STORY: Two

Record Set Stamp

05/10/2022



MP6			
SYMBOL	PART	WIDTH (INCHES)	QUANTITY
	MONOLITH PV	45 1/8	0
6	SINGLE	45 1/8	7
5	5/6	37 5/8	4
4	2/3	30 1/16	1
3	1/2	22 9/16	0
2	1/3	15 1/16	3
1	1/6	7 1/2	1
R	ROOF RACK	N/A	1

JOB NUMBER: JB-8042552 00
MOUNTING SYSTEM: TESLA SOLAR ROOF
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC
INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

DESCRIPTION:
13.752 KW PV ARRAY

PAGE NAME:
MP6 TILE PLAN

DESIGN:

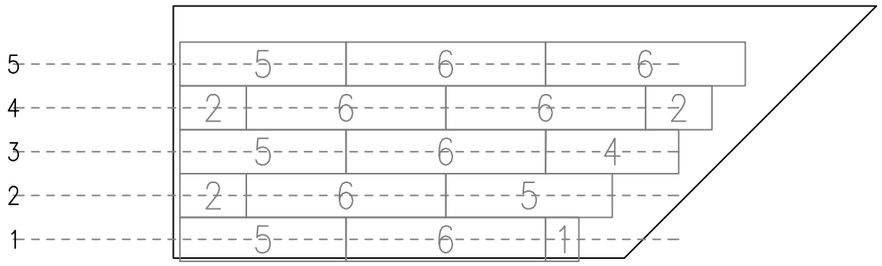
SHEET: SC 10
REV:
DATE: 4/26/2022

PARTIAL TILE LOCATIONS NEAR EDGE CONDITIONS ARE ESTIMATED.
PLEASE VERIFY ACTUAL LENGTHS NEEDED ON SITE.

MP7	PITCH: 45° (12:12) ARRAY PITCH: 45° (12:12) AZIMUTH: 84 ARRAY AZIMUTH: 84 MATERIAL: Solar Roof STORY: Two

Record Set Stamp

05/10/2022



MP7			
SYMBOL	PART	WIDTH (INCHES)	QUANTITY
	MONOLITH PV	45 1/8	0
6	SINGLE	45 1/8	7
5	5/6	37 5/8	4
4	2/3	30 1/16	1
3	1/2	22 9/16	0
2	1/3	15 1/16	3
1	1/6	7 1/2	1
R	ROOF RACK	N/A	1

JOB NUMBER: JB-8042552 00
MOUNTING SYSTEM: TESLA SOLAR ROOF
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC
INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

DESCRIPTION:
13.752 KW PV ARRAY

PAGE NAME:
MP7 TILE PLAN

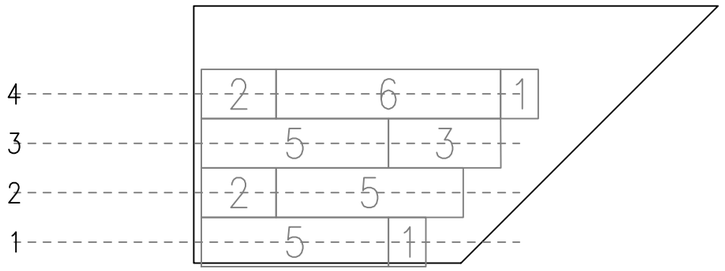
DESIGN:

SHEET: SC 11
REV:
DATE: 4/26/2022

PARTIAL TILE LOCATIONS NEAR EDGE CONDITIONS ARE ESTIMATED.
PLEASE VERIFY ACTUAL LENGTHS NEEDED ON SITE.

MP8	PITCH: 45° (12:12) ARRAY PITCH: 45° (12:12) AZIMUTH: 264 ARRAY AZIMUTH: 264 MATERIAL: Solar Roof STORY: Two

Record Set Stamp
05/10/2022



MP8			
SYMBOL	PART	WIDTH (INCHES)	QUANTITY
	MONOLITH PV	45 1/8	0
6	SINGLE	45 1/8	1
5	5/6	37 5/8	3
4	2/3	30 1/16	0
3	1/2	22 9/16	1
2	1/3	15 1/16	2
1	1/6	7 1/2	2
R	ROOF RACK	N/A	1

JOB NUMBER: JB-8042552 00
MOUNTING SYSTEM: TESLA SOLAR ROOF
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC
INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

DESCRIPTION:
13.752 KW PV ARRAY

PAGE NAME:
MP8 TILE PLAN

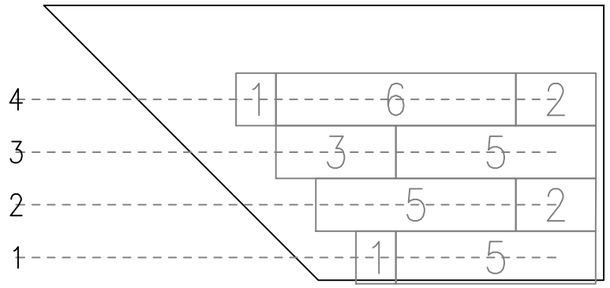
DESIGN:

SHEET: SC 12
REV:
DATE: 4/26/2022

PARTIAL TILE LOCATIONS NEAR EDGE CONDITIONS ARE ESTIMATED.
PLEASE VERIFY ACTUAL LENGTHS NEEDED ON SITE.

MP9	PITCH: 45° (12:12) ARRAY PITCH: 45° (12:12) AZIMUTH: 84 ARRAY AZIMUTH: 84 MATERIAL: Solar Roof STORY: Two

Record Set Stamp
05/10/2022



MP9			
SYMBOL	PART	WIDTH (INCHES)	QUANTITY
	MONOLITH PV	45 1/8	0
6	SINGLE	45 1/8	1
5	5/6	37 5/8	3
4	2/3	30 1/16	0
3	1/2	22 9/16	1
2	1/3	15 1/16	2
1	1/6	7 1/2	2
R	ROOF RACK	N/A	1

JOB NUMBER: JB-8042552 00
MOUNTING SYSTEM: TESLA SOLAR ROOF
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC
INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

DESCRIPTION:
13.752 KW PV ARRAY

PAGE NAME:
MP9 TILE PLAN

DESIGN:

SHEET: SC 13
REV:
DATE: 4/26/2022

PARTIAL TILE LOCATIONS NEAR EDGE CONDITIONS ARE ESTIMATED.
PLEASE VERIFY ACTUAL LENGTHS NEEDED ON SITE.

MP10	PITCH: 29° (7:12) ARRAY PITCH: 29° (7:12) AZIMUTH: 213 ARRAY AZIMUTH: 213 MATERIAL: Solar Roof	STORY: Two

Record Set Stamp

05/10/2022

MP10			
SYMBOL	PART	WIDTH (INCHES)	QUANTITY
	MONOLITH PV	45 1/8	0
6	SINGLE	45 1/8	0
5	5/6	37 5/8	0
4	2/3	30 1/16	0
3	1/2	22 9/16	0
2	1/3	15 1/16	0
1	1/6	7 1/2	2
R	ROOF RACK	N/A	0

JOB NUMBER: JB-8042552 00
MOUNTING SYSTEM: TESLA SOLAR ROOF
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC
INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

DESCRIPTION:
13.752 KW PV ARRAY

PAGE NAME:
MP10 TILE PLAN

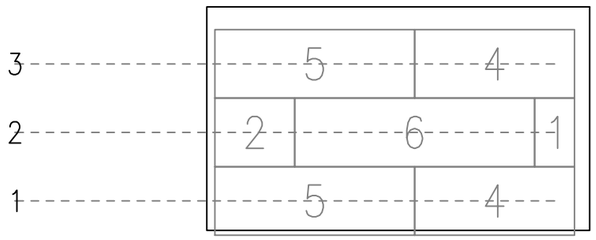
DESIGN:

SHEET: SC 14
REV:
DATE: 4/26/2022

PARTIAL TILE LOCATIONS NEAR EDGE CONDITIONS ARE ESTIMATED.
PLEASE VERIFY ACTUAL LENGTHS NEEDED ON SITE.

MP11	PITCH: 23° (5:12) ARRAY PITCH: 23° (5:12) AZIMUTH: 174 ARRAY AZIMUTH: 174 MATERIAL: Solar Roof STORY: Two

Record Set Stamp
05/10/2022



MP11			
SYMBOL	PART	WIDTH (INCHES)	QUANTITY
	MONOLITH PV	45 1/8	0
6	SINGLE	45 1/8	1
5	5/6	37 5/8	2
4	2/3	30 1/16	2
3	1/2	22 9/16	0
2	1/3	15 1/16	1
1	1/6	7 1/2	1
R	ROOF RACK	N/A	1

JOB NUMBER: JB-8042552 00
MOUNTING SYSTEM: TESLA SOLAR ROOF
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC
INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

DESCRIPTION:
13.752 KW PV ARRAY

PAGE NAME:
MP11 TILE PLAN

DESIGN:

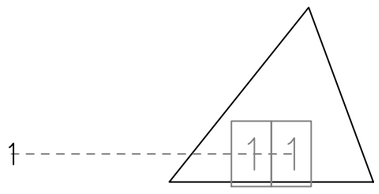
SHEET: SC 15
REV:
DATE: 4/26/2022

PARTIAL TILE LOCATIONS NEAR EDGE CONDITIONS ARE ESTIMATED.
PLEASE VERIFY ACTUAL LENGTHS NEEDED ON SITE.

MP12	PITCH: 29° (7:12) ARRAY PITCH: 29° (7:12) AZIMUTH: 136 ARRAY AZIMUTH: 136 MATERIAL: Solar Roof	STORY: Two

Record Set Stamp

05/10/2022



MP12			
SYMBOL	PART	WIDTH (INCHES)	QUANTITY
	MONOLITH PV	45 1/8	0
6	SINGLE	45 1/8	0
5	5/6	37 5/8	0
4	2/3	30 1/16	0
3	1/2	22 9/16	0
2	1/3	15 1/16	0
1	1/6	7 1/2	2
R	ROOF RACK	N/A	0

JOB NUMBER: JB-8042552 00
MOUNTING SYSTEM: TESLA SOLAR ROOF
MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC
INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

DESCRIPTION:
13.752 KW PV ARRAY

PAGE NAME:
MP12 TILE PLAN

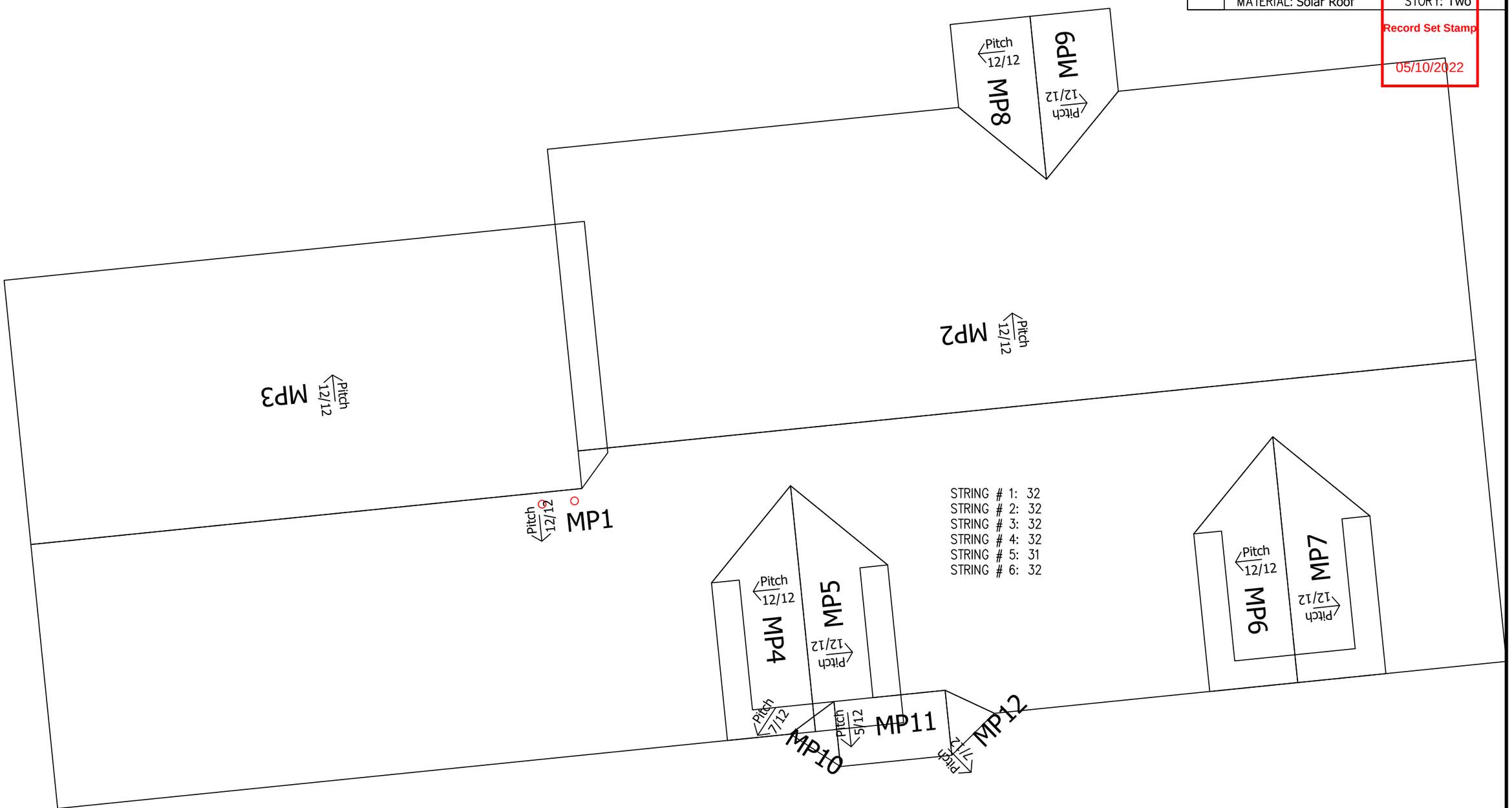
DESIGN:

SHEET: SC 16
REV:
DATE: 4/26/2022

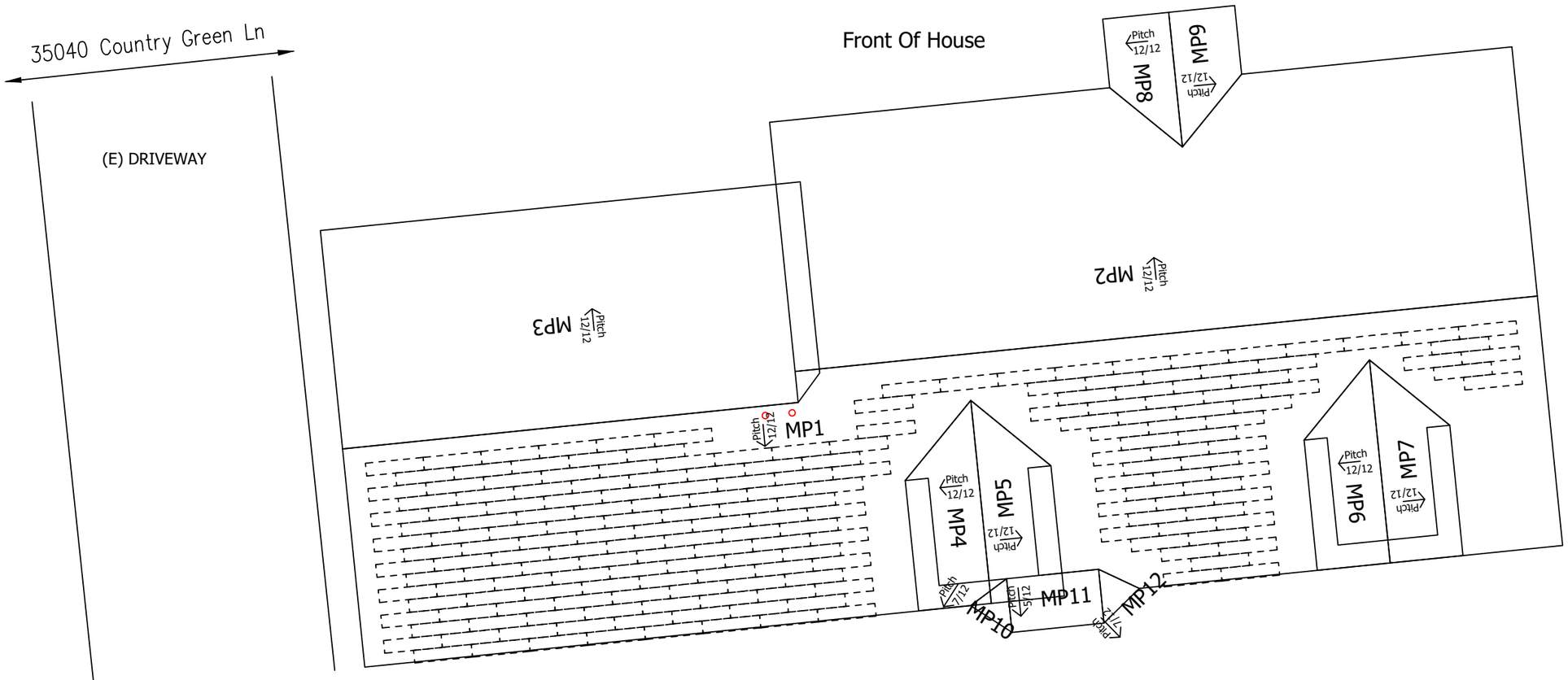
MP1	PITCH: 45° (12:12) ARRAY PITCH: 45° (12:12) AZIMUTH: 174 ARRAY AZIMUTH: 174 MATERIAL: Solar Roof	STORY: Two

Record Set Stamp

05/10/2022



JOB NUMBER: JB-8042552 00 MOUNTING SYSTEM: TESLA SOLAR ROOF MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC INVERTER: Multiple Inverters	CUSTOMER: Kevin Daly 35040 Country Green Ln Steamboat Springs, CO 80487 303-808-5445	DESCRIPTION: 13.752 KW PV ARRAY PAGE NAME: STRING DIAGRAM	DESIGN: SHEET: SC 17 REV: DATE: 4/26/2022	



MP1	PITCH: 45° (12:12) ARRAY PITCH: 45° (12:12) AZIMUTH: 174 ARRAY AZIMUTH: 174 MATERIAL: Solar Roof STORY: Two

Record Set Stamp

05/10/2022

LEGEND

- (M) (E) UTILITY METER & WARNING LABEL
- (Inv) INVERTER W/ INTEGRATED DC DISCO & WARNING LABELS
- (DC) DC DISCONNECT & WARNING LABELS
- (AC) AC DISCONNECT & WARNING LABELS
- (B) DC JUNCTION/COMBINER BOX & LABELS
- (D) DISTRIBUTION PANEL & LABELS
- (LC) LOAD CENTER & WARNING LABELS
- (M) DEDICATED PV SYSTEM METER
- (RSD) RAPID SHUTDOWN
- STANDOFF LOCATIONS
- CONDUIT RUN ON EXTERIOR
- CONDUIT RUN ON INTERIOR
- GATE/FENCE
- HEAT PRODUCING VENTS ARE RED
- INTERIOR EQUIPMENT IS DASHED

SITE PLAN

Scale: 3/32" = 1'

0 1' 10' 21'

N W E S

JOB NUMBER: JB-8042552 00

MOUNTING SYSTEM: TESLA SOLAR ROOF

MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC

INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303-808-5445

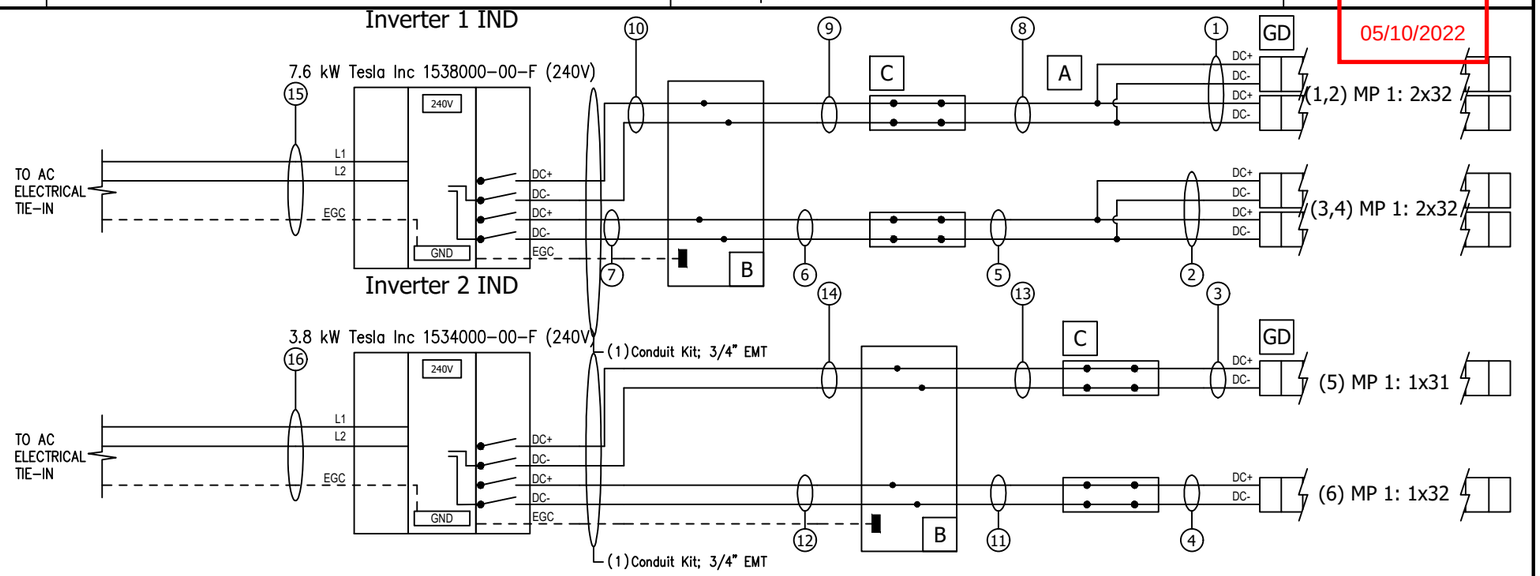
DESCRIPTION:
13.752 KW PV ARRAY

PAGE NAME:
SITE PLAN

DESIGN:

SHEET: 2 REV: DATE: 4/26/2022

MAIN PANEL SPECS	GENERAL NOTES	INVERTER SPECS	MODULE SPECS	LICENSE
Panel Number: Meter Number:	Inv 1: DC Ungrounded Inv 2: DC Ungrounded	INV 1 – (1) 7.6 kW Tesla Inc 1538000–00–F (240V) INV 2 – (1) 3.8 kW Tesla Inc 1534000–00–F (240V) INV 3	– (191) TESLA SR72T2; 72 W, 65.40 W PTC Voc: 14.2 Vpmax: 11.34 Isc AND Imp ARE SHOWN IN THE DC STRINGS IDENTIFIER	Record Set Stamp 05/10/2022



Voc* = MAX VOC AT MIN TEMP

AC

15	10FT	(1) AWG #8, THWN–2, Black (1) AWG #8, THWN–2, Red (1) AWG #10, THWN–2, Green EGC – (1) Conduit Kit; 3/4" EMT	Vmp = 240 VAC	Imp= 32	AAC	
16	10FT	(1) AWG #10, THWN–2, Black (1) AWG #10, THWN–2, Red (1) AWG #10, THWN–2, Green EGC – (1) Conduit Kit; 3/4" EMT	Vmp = 240 VAC	Imp= 16	AAC	

12	50FT	(1) AWG #10, THWN–2, Black (1) AWG #10, THWN–2, White (1) AWG #10, THWN–2, Green EGC – (1) Conduit Kit; 3/4" EMT	Voc* = 508.79 VDC Vmp = 362.88 VDC – (1) Conduit Kit; 3/4" EMT	Isc = 6.8 Imp= 6.3	ADC ADC	
13	50FT	(2) PV Wire, AWG 10 (1) Conduit; 3/4" LFMC	Voc* = 492.89 VDC Vmp = 351.54 VDC	Isc = 6.8 Imp= 6.3	ADC ADC	
14	50FT	(1) AWG #10, THWN–2, Black (1) AWG #10, THWN–2, White (1) AWG #10, THWN–2, Green EGC – (1) Conduit Kit; 3/4" EMT	Voc* = 492.89 VDC Vmp = 351.54 VDC – (1) Conduit Kit; 3/4" EMT	Isc = 6.8 Imp= 6.3	ADC ADC	

DC

5	50FT	(2) PV Wire, AWG 10	Voc* = 508.79 VDC Vmp = 362.88 VDC	Isc = 13.6 Imp= 12.6	ADC ADC	
6	50FT	(2) PV Wire, AWG 10 (1) Conduit; 3/4" LFMC	Voc* = 508.79 VDC Vmp = 362.88 VDC	Isc = 13.6 Imp= 12.6	ADC ADC	
7	50FT	(1) AWG #10, THWN–2, Black (1) AWG #10, THWN–2, White (1) AWG #10, THWN–2, Green EGC – (1) Conduit Kit; 3/4" EMT	Voc* = 508.79 VDC Vmp = 362.88 VDC – (1) Conduit Kit; 3/4" EMT	Isc = 13.6 Imp= 12.6	ADC ADC	
8	50FT	(2) PV Wire, AWG 10	Voc* = 508.79 VDC Vmp = 362.88 VDC	Isc = 13.6 Imp= 12.6	ADC ADC	
9	50FT	(2) PV Wire, AWG 10 (1) Conduit; 3/4" LFMC	Voc* = 508.79 VDC Vmp = 362.88 VDC	Isc = 13.6 Imp= 12.6	ADC ADC	
10	50FT	(1) AWG #10, THWN–2, Black (1) AWG #10, THWN–2, White (1) AWG #10, THWN–2, Green EGC – (1) Conduit Kit; 3/4" EMT	Voc* = 508.79 VDC Vmp = 362.88 VDC – (1) Conduit Kit; 3/4" EMT	Isc = 13.6 Imp= 12.6	ADC ADC	
11	50FT	(2) PV Wire, AWG 10 (1) Conduit; 3/4" LFMC	Voc* = 508.79 VDC Vmp = 362.88 VDC	Isc = 6.8 Imp= 6.3	ADC ADC	

1	80FT	(4) PV Wire, AWG 10	Voc* = 508.79 VDC Vmp = 362.88 VDC	Isc = 6.8 Imp= 6.3	ADC ADC	
2	80FT	(4) PV Wire, AWG 10	Voc* = 508.79 VDC Vmp = 362.88 VDC	Isc = 6.8 Imp= 6.3	ADC ADC	
3	80FT	(2) PV Wire, AWG 10	Voc* = 492.89 VDC Vmp = 351.54 VDC	Isc = 6.8 Imp= 6.3	ADC ADC	
4	80FT	(2) PV Wire, AWG 10	Voc* = 508.79 VDC Vmp = 362.88 VDC	Isc = 6.8 Imp= 6.3	ADC ADC	

GD	Please see MCI wiring detail page for more information
A	(2) EE–000550–001 MC4 Y–Connector, Receptacle – (2) EE–000550–000 MC4 Y–Connector, Plug
PV	(24) Tesla MCI, 650V, 12A
B	(4) Junction Box
C	(4) Pass Through Box

JOB NUMBER: JB–8042552 00

MOUNTING SYSTEM: TESLA SOLAR ROOF

MODULES: (191) TESLA SR72T2; 72 W, 65.40 W PTC

INVERTER: Multiple Inverters

CUSTOMER:
Kevin Daly
35040 Country Green Ln
Steamboat Springs, CO 80487

303–808–5445

DESCRIPTION: 13.752 KW PV ARRAY

PAGE NAME: THREE LINE DIAGRAM

DESIGN:

SHEET: 3 REV: DATE: 4/26/2022

PHOTOVOLTAIC POWER SOURCE

Label Location:
(C)
Per Code:
NEC 690.31.E.3

DC PHOTOVOLTAIC DISCONNECT

Label Location:
(DC) (INV)
Per Code:
NEC 690.14.C.2

MAXIMUM VOLTAGE

MAXIMUM CIRCUIT CURRENT

MAX RATED OUTPUT CURRENT OF THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED)

Label Location:
(DC) (INV)
Per Code:
NEC 690.53

AC PHOTOVOLTAIC DISCONNECT

Label Location:
(AC) (POI)
Per Code:
NEC 690.14.C.2

MAXIMUM AC OPERATING CURRENT ____ A

MAXIMUM AC OPERATING VOLTAGE ____ V

Label Location:
(AC) (POI)
Per Code:
NEC 690.54

WARNING

ELECTRIC SHOCK HAZARD
DO NOT TOUCH TERMINALS
TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

Label Location:
(AC) (POI)
Per Code:
CEC 690.13.B

CAUTION

DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

Label Location:
(POI)
Per Code:
NEC 705.12.B.3

WARNING

INVERTER OUTPUT CONNECTION
DO NOT RELOCATE THIS OVERCURRENT DEVICE

Label Location:
(POI)
Per Code:
NEC 705.12.B.2.3.b

WARNING

THIS EQUIPMENT FED BY MULTIPLE SOURCES. TOTAL RATING OF ALL OVER CURRENT DEVICES, EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE, SHALL NOT EXCEED AMPACITY OF BUSBAR.

Per Code:
705.12.B.2.3.c

WARNING

ELECTRIC SHOCK HAZARD
THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

Label Location:
(DC) (INV)

Record Set Stamp

05/10/2022

(AC): AC Disconnect
(C): Conduit
(CB): Combiner Box
(D): Distribution Panel
(DC): DC Disconnect
(IC): Interior Run Conduit
(INV): Inverter With Integrated DC Disconnect
(LC): Load Center
(M): Utility Meter
(POI): Point of Interconnection

	Label Set		