

PHOTOVOLTAIC GROUND MOUNT SYSTEM

900 MODULES-GROUND MOUNTED - 270.00 kW DC, 5.0 MWh

SYSTEM SUMMARY:

(NEW) 900 - RECOM RCM-300-6PA (300W) MODULES
(NEW) 900 - TIGO TS4-A-O OPTIMIZERS
(NEW) 2 - DC COMBINER BOX
(NEW) 3 - 5MWh STORAGE BATTERIES

DESIGN CRITERIA:

MOUNT TYPE: GROUND MOUNT
SNOW LOAD : 0 PSF
WIND SPEED : 130 MPH
WIND EXPOSURE: C
RISK CATEGORY: I
COORDINATE: 34°05'26.0"N 117°37'18.9"W

GOVERNING CODES:

2022 CALIFORNIA ELECTRICAL CODE (CEC)
2022 CALIFORNIA BUILDING CODE (CBC)
2022 CALIFORNIA RESIDENTIAL CODE (CRC)
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)
2022 CALIFORNIA PLUMBING CODE (CPC)
2022 CALIFORNIA MECHANICAL CODE (CMC)
2022 CALIFORNIA GREEN BUILDING CODE (CGBC)
2022 CALIFORNIA HISTORICAL BUILDING CODE (CHBC)
2022 CALIFORNIA FIRE CODE (CFC)
2022 CALIFORNIA ENERGY CODE (CEC)

SHEET INDEX

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PV-1	SITE PLAN
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PV-4.1	BILL OF MATERIALS
PV-5	ELECTRICAL LINE DIAGRAM
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GENERAL NOTES

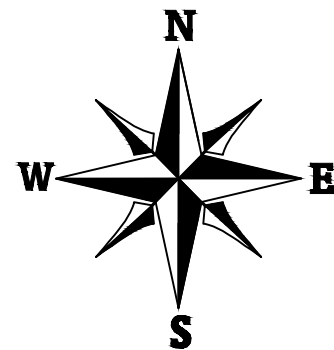
- ALL WORK TO COMPLY WITH CEC ARTICLE 690.
- REMOVAL OF A UTILITY-INTERACTIVE INVERTER OR OTHER EQUIPMENT SHALL NOT DISCONNECT THE BUILDING CONNECTION BETWEEN THE GROUNDING ELECTRODE CONDUCTOR AND THE PV SOURCE AND/OR OUTPUT CIRCUIT GROUNDED CONDUCTOR.
- ALL PV SYSTEM COMPONENTS SHALL BE LISTED BY A RECOGNIZED TESTING AGENCY.
- WIRING MATERIALS SHALL COMPLY WITH MAXIMUM CONTINUOUS CURRENT OUTPUT AT 25°C; WIRE SHALL BE WET RATED AT 90°C.
- EXPOSED PHOTOVOLTAIC SYSTEM CONDUCTORS ON THE GROUND WILL BE USE-2 OR PV TYPE WIRE.
- ALL EXTERIOR CONDUIT, FITTINGS, AND BOXES SHALL BE RAIN-TIGHT AND APPROVED FOR USE IN WET LOCATIONS (CEC 314.15).
- ALL METALLIC RACEWAYS AND EQUIPMENT SHALL BE BONDED AND ELECTRICALLY CONTINUOUS (CEC 250.90, 250.96).
- FOR UNGROUNDED SYSTEMS, THE PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUITS SHALL BE PROVIDED WITH A GROUND-FAULT PROTECTION DEVICE OR SYSTEM THAT DETECTS A GROUND FAULT, INDICATES THAT FAULT HAS OCCURRED, AND AUTOMATICALLY DISCONNECTS ALL CONDUCTORS OR CAUSES THE INVERTER TO AUTOMATICALLY CEASE SUPPLYING POWER TO OUTPUT CIRCUITS.
- ANY REQUIRED GROUNDING ELECTRODE CONDUCTOR WILL BE CONTINUOUS, EXCEPT FOR SPLICES OR JOINTS AT BUSBAR'S WITHIN LISTED EQUIPMENT (CEC 250.64C).
- ALL PV MODULES AND ASSOCIATED EQUIPMENT SHALL BE PROTECTED FROM ANY PHYSICAL DAMAGE.
- ALL FIELD-INSTALLED JUNCTION, PULL, AND OUTLET BOXES LOCATED BEHIND MODULES SHALL BE ACCESSIBLE DIRECTLY OR BY DISPLACEMENT OF A MODULE SECURED BY REMOVABLE FASTENERS.
- FOR GROUNDED SYSTEMS, THE INVERTER IS EQUIPPED WITH GROUND FAULT PROTECTION AND A GFI FUSE PORT FOR GROUND FAULT INDICATION
- THE INSTALLED SOLAR SYSTEM HAS A DISTRIBUTION WEIGHT OF LESS THAN 4 PSF
- THE CONCENTRATED LOAD FOR EACH VERTICAL SUPPORT IS LESS THAN 45 LBS
- AC DISCONNECT IS A "KNIFE BLADE" TYPE DISCONNECT.
- THE WORKING CLEARANCES AROUND THE EXISTING ELECTRICAL EQUIPMENT AS WELL AS THE NEW ELECTRICAL EQUIPMENT WILL BE MAINTAINED IN ACCORDANCE WITH CEC 110.26
- THE PHOTOVOLTAIC INVERTER WILL BE LISTED AS UL 1741 COMPLIANT



1 AERIAL PHOTO
PV-0 SCALE: NTS



2 VICINITY MAP
PV-0 SCALE: NTS



ENGINEERING FIRM

THINN ELECTRICAL
ENGINEERING
1529 WEST
ORANGEWOOD AVE,
ORANGE, CA 92868

PROJECT NAME

L'HOPITAL BIENFAISANCE DE
PIGNON SOLAR PROJECT

CONTRACTOR OF RECORD

APPROVED BY:



DATE: 6/19/2026

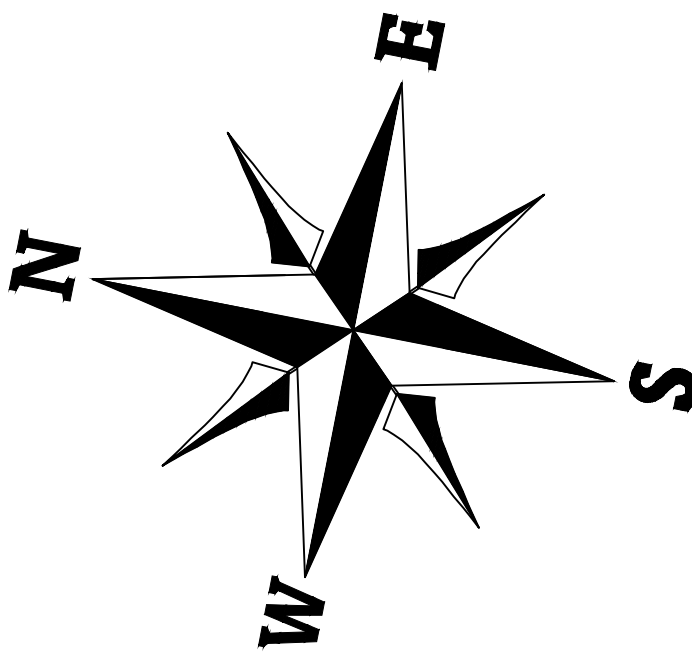
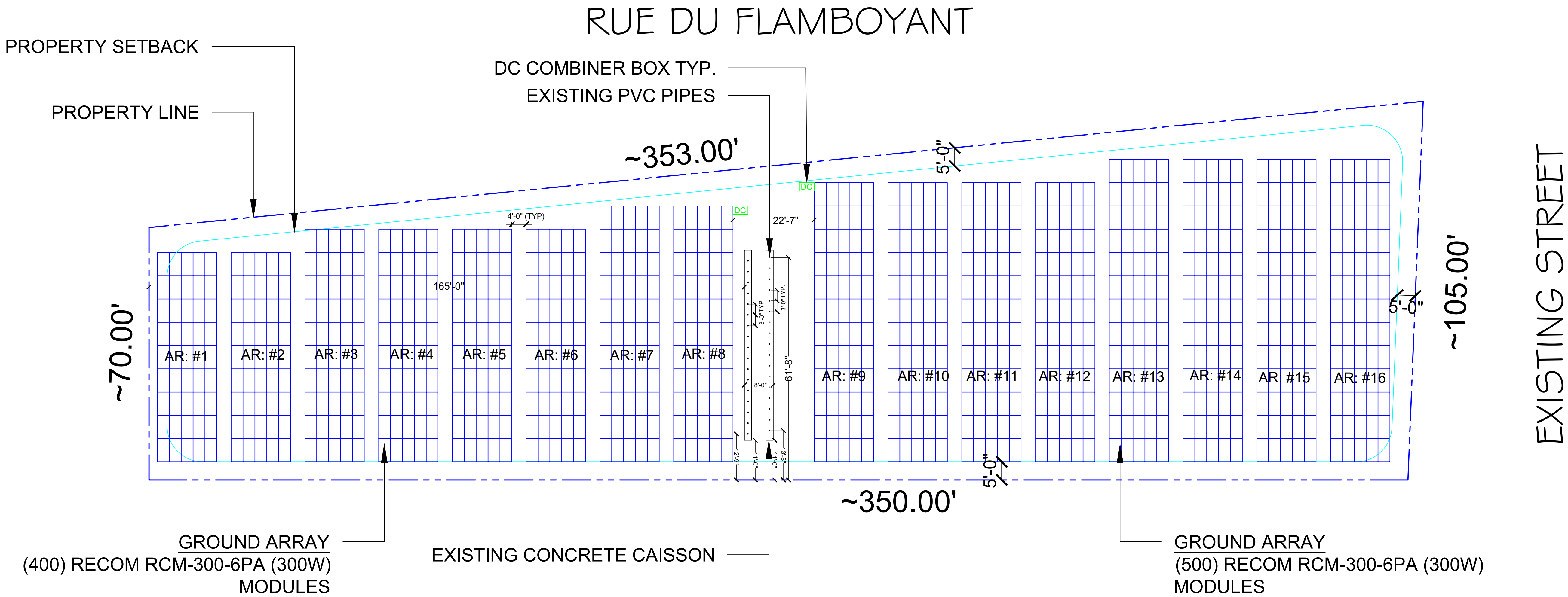
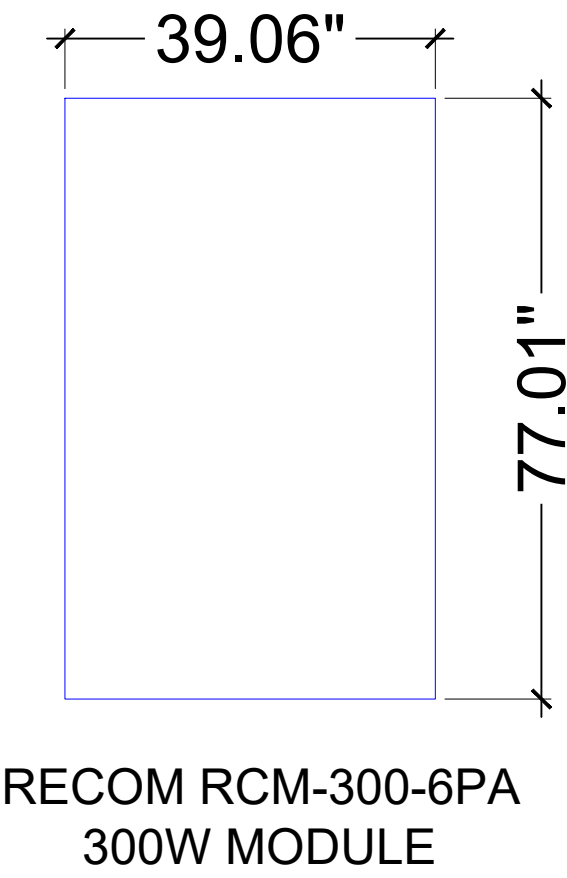
SHEET NAME
COVER SHEET

SHEET SIZE
ARCH D
24" X 36"

SHEET NUMBER
PV-0

SYSTEM SIZE: 270.00 KW DC	
900	RECOM RCM-300-6PA 300W MODULES

ARRAY TILT (DEG)	AZIMUTH (DEG)	# OF MODULES
15°	191°	900



NOTES:

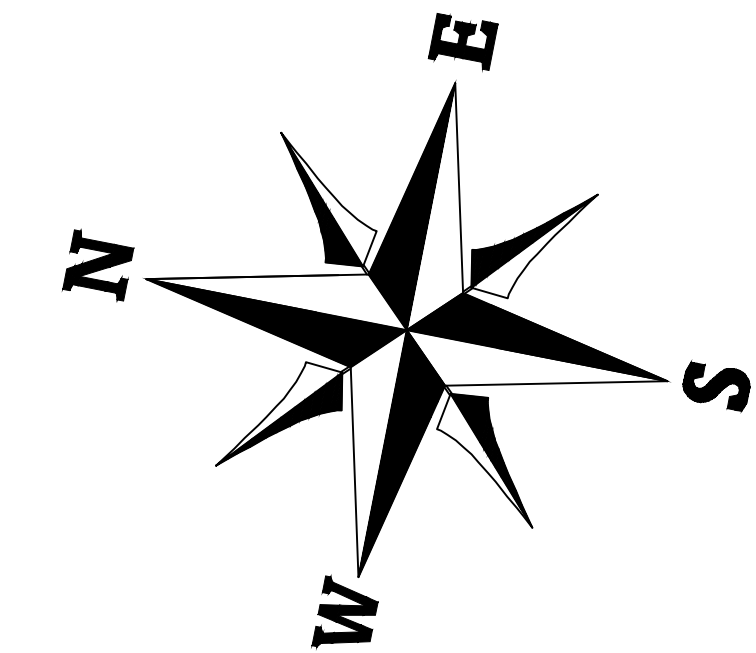
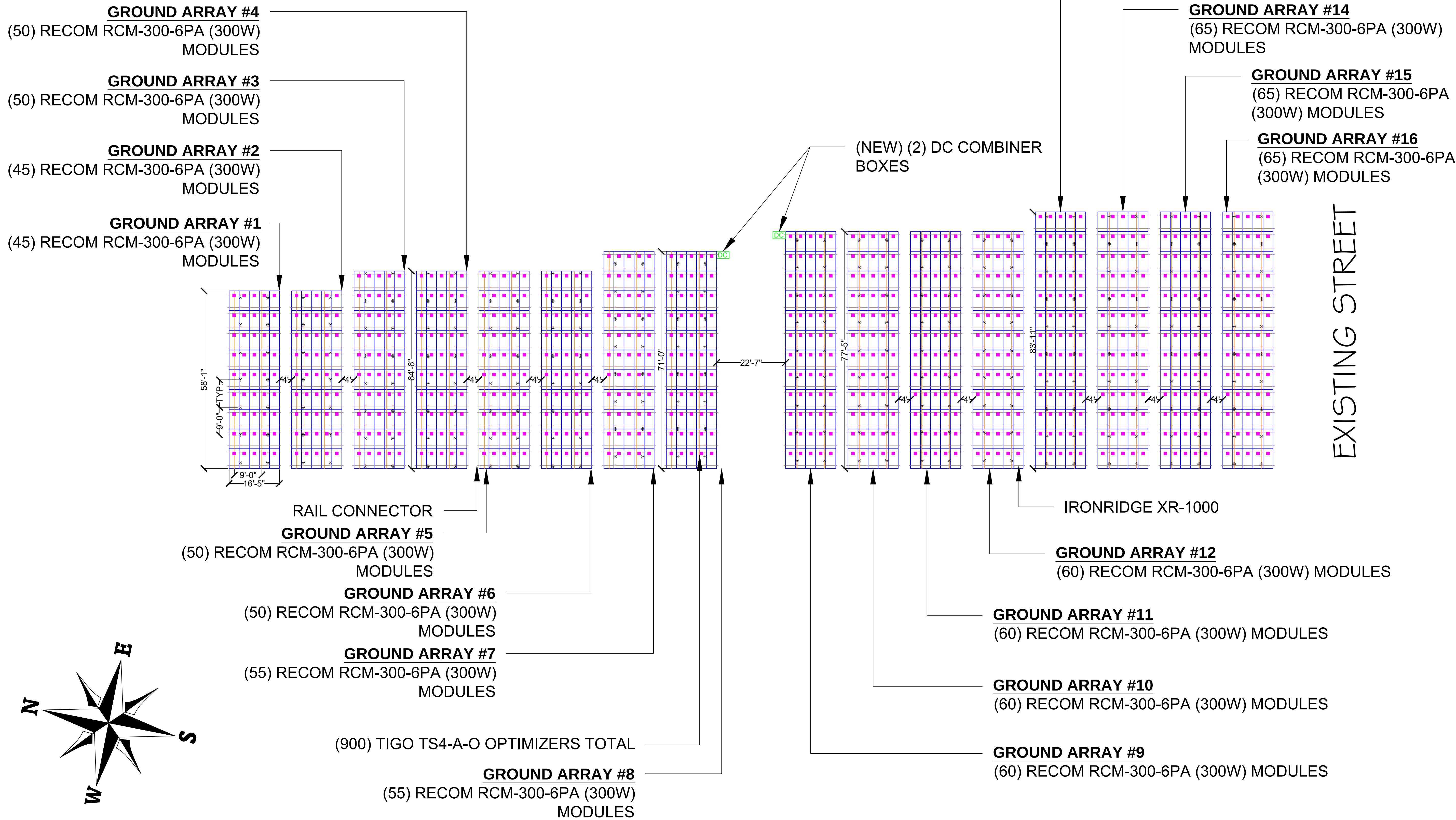
- Each solar module is to have its own Tigo TS4-A-O DC Series Optimizer (or equivalent installed on back).
- Each string shall consist of 20 modules and be fused at Combiner box with 15 Amp fuse.
- Solar strings runs are to be as short as practically possible.
- Wiring to be installed underground as much as practically possible.

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DATE: 6/19/2026
SHEET NAME
SITE PLAN
SHEET SIZE
ARCH D 24" X 36"
SHEET NUMBER
PV-1

SYSTEM SIZE: 270.00 KW DC	
900	RECOM RCM-300-6PA 300W MODULES

ARRAY TILT (DEG)	AZIMUTH (DEG)	# OF MODULES
15°	191°	900

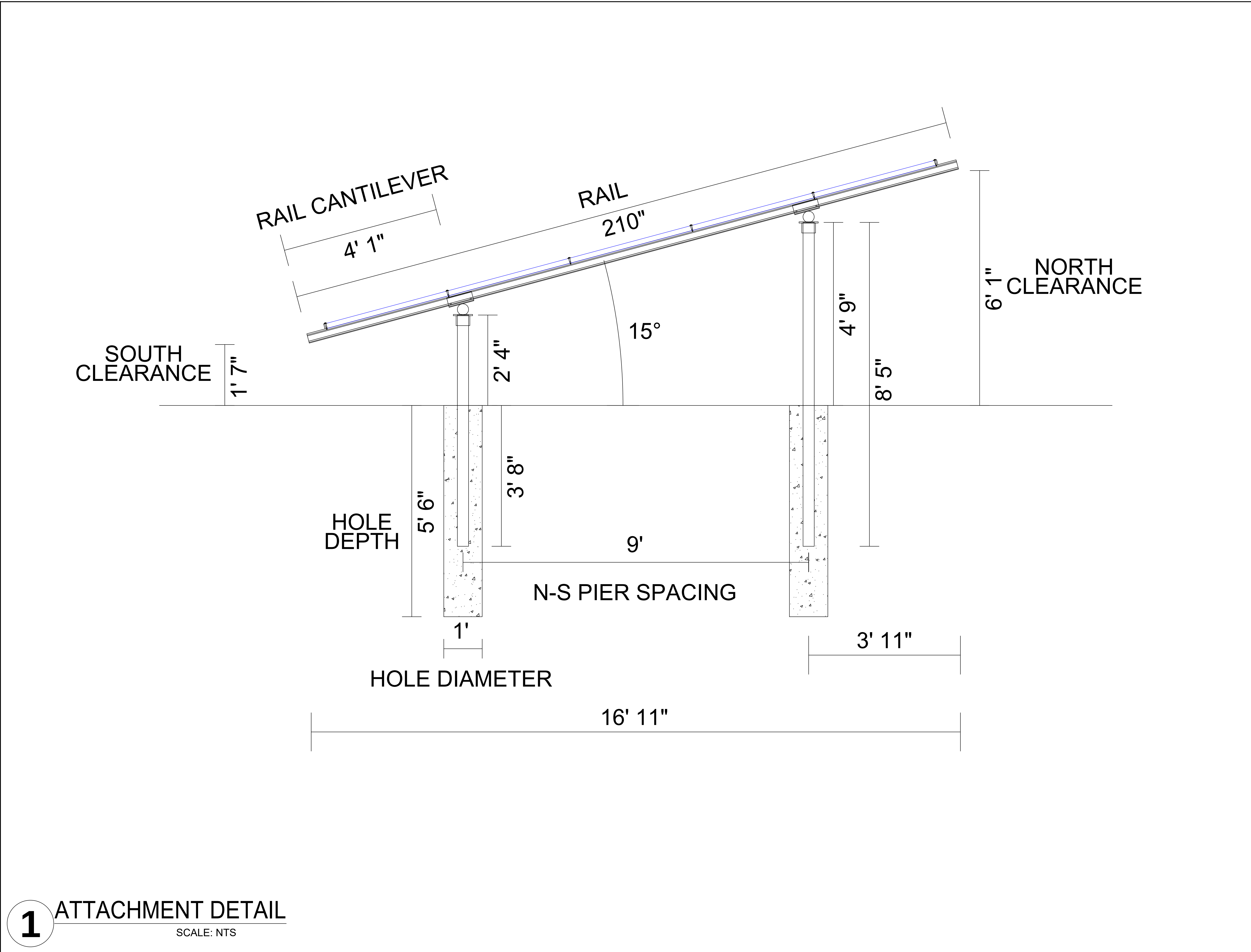
RUE DU FLAMBOYANT



1 LAYOUT PLAN

SCALE: 1" = 16'-0"

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SHEET NAME
LAYOUT PLAN
SHEET SIZE
ARCH D 24" X 36"
SHEET NUMBER
PV-2



ENGINEERING FIRM
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PROJECT NAME
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DATE: 6/19/2026
SHEET NAME
ATTACHMENT DETAIL
SHEET SIZE
ARCH D 24" X 36"
SHEET NUMBER
PV-3

Project Details															
ID		1472569					Name		Pignon						
Location		Pignon, Nord Department, HT					Module		Custom Panels: RECOM: RCM-300-6PA						
Total modules		900					Tilt		15 degrees						
Total watts		270.00 kW					Piers		276						
Foundation type		Concrete					Foundation info		44.16 cu yd						
Pipe diameter		3"					Total pipe length		4315' 1"						
Sub array Details															
Rows	Columns	# Arrays	Size	Rail type	Rails per column	Diagonal bracing	Piers/array	Edge clearance	E/W pier span	Total south piers	Total north piers	Total cross pipes	Pipe cantilever	Total pipe length	
5	9	1	58' (EW) x 16' 7" (NS)	XR1000	2	false	14	1' 7" (S); 6' 1" (N)	9'	7 (6')	7 (8' 5")	2 (58')	2'	217' 2"	
5	9	2	58' (EW) x 16' 7" (NS)	XR1000	2	false	14	1' 7" (S); 6' 1" (N)	9'	7 (6')	7 (8' 5")	2 (58')	2'	217' 2"	
5	10	3	64' 5" (EW) x 16' 7" (NS)	XR1000	2	false	16	1' 7" (S); 6' 1" (N)	9'	8 (6')	8 (8' 5")	2 (64' 5")	9"	244' 6"	
5	10	4	64' 5" (EW) x 16' 7" (NS)	XR1000	2	false	16	1' 7" (S); 6' 1" (N)	9'	8 (6')	8 (8' 5")	2 (64' 5")	9"	244' 6"	
5	10	5	64' 5" (EW) x 16' 7" (NS)	XR1000	2	false	16	1' 7" (S); 6' 1" (N)	9'	8 (6')	8 (8' 5")	2 (64' 5")	9"	244' 6"	
5	10	6	64' 5" (EW) x 16' 7" (NS)	XR1000	2	false	16	1' 7" (S); 6' 1" (N)	9'	8 (6')	8 (8' 5")	2 (64' 5")	9"	244' 6"	
5	11	7	70' 11" (EW) x 16' 7" (NS)	XR1000	2	false	16	1' 7" (S); 6' 1" (N)	9'	8 (6')	8 (8' 5")	2 (70' 11")	3' 11"	257' 5"	
5	11	8	70' 11" (EW) x 16' 7" (NS)	XR1000	2	false	16	1' 7" (S); 6' 1" (N)	9'	8 (6')	8 (8' 5")	2 (70' 11")	3' 11"	257' 5"	
5	12	9	77' 4" (EW) x 16' 7" (NS)	XR1000	2	false	18	1' 7" (S); 6' 1" (N)	9'	9 (6')	9 (8' 5")	2 (77' 4")	2' 8"	284' 9"	
5	12	10	77' 4" (EW) x 16' 7" (NS)	XR1000	2	false	18	1' 7" (S); 6' 1" (N)	9'	9 (6')	9 (8' 5")	2 (77' 4")	2' 8"	284' 9"	
5	12	11	77' 4" (EW) x 16' 7" (NS)	XR1000	2	false	18	1' 7" (S); 6' 1" (N)	9'	9 (6')	9 (8' 5")	2 (77' 4")	2' 8"	284' 9"	
5	12	12	77' 4" (EW) x 16' 7" (NS)	XR1000	2	false	18	1' 7" (S); 6' 1" (N)	9'	9 (6')	9 (8' 5")	2 (77' 4")	2' 8"	284' 9"	
5	13	13	83' 10" (EW) x 16' 7" (NS)	XR1000	2	false	20	1' 7" (S); 6' 1" (N)	9'	10 (6')	10 (8' 5")	2 (83' 10")	1' 5"	312' 2"	
5	13	14	83' 10" (EW) x 16' 7" (NS)	XR1000	2	false	20	1' 7" (S); 6' 1" (N)	9'	10 (6')	10 (8' 5")	2 (83' 10")	1' 5"	312' 2"	
5	13	15	83' 10" (EW) x 16' 7" (NS)	XR1000	2	false	20	1' 7" (S); 6' 1" (N)	9'	10 (6')	10 (8' 5")	2 (83' 10")	1' 5"	312' 2"	
5	13	16	83' 10" (EW) x 16' 7" (NS)	XR1000	2	false	20	1' 7" (S); 6' 1" (N)	9'	10 (6')	10 (8' 5")	2 (83' 10")	1' 5"	312' 2"	

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CONTRACTOR OF RECORD

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DATE: 6/19/2026

SHEET NAME
PIPE LENGTH
CALCULATION

SHEET SIZE
ARCH D
24" X 36"

SHEET NUMBER
PV-4

Bill of Materials				
Part	Spares	Qty	MSRP	Total
Rails				
XR-1000-210M XR-1000, 210" (17' 6") Mill	0	360	\$240.03	\$86,410.80
Clamps & Grounding				
UFO-CL-01-A1 Universal Module Clamp, Clear	0	1440	\$6.73	\$9,691.20
UFO-END-01-A1 End Fastening Object (End Clamp, 30-40mm), Mill	0	720	\$8.90	\$6,408.00
XR-LUG-03-A1 Grounding Lug, Low Profile	0	16	\$12.26	\$196.16
Substructure				
70-0300-SGA SGA Top Cap at 3"	0	276	\$127.73	\$35,253.48
GM-BRC3-01-M1 Ground Mount Bonded Rail Connector - 3"	0	720	\$33.13	\$23,853.60
			Total MSRP	\$161,813.24
			Discount (0.0%)	(\$0.00)
			Total Price	\$161,813.24
			\$/Watt	\$0.599
			Weight	8,571.7 lbs

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DATE: 6/19/2026

SHEET NAME

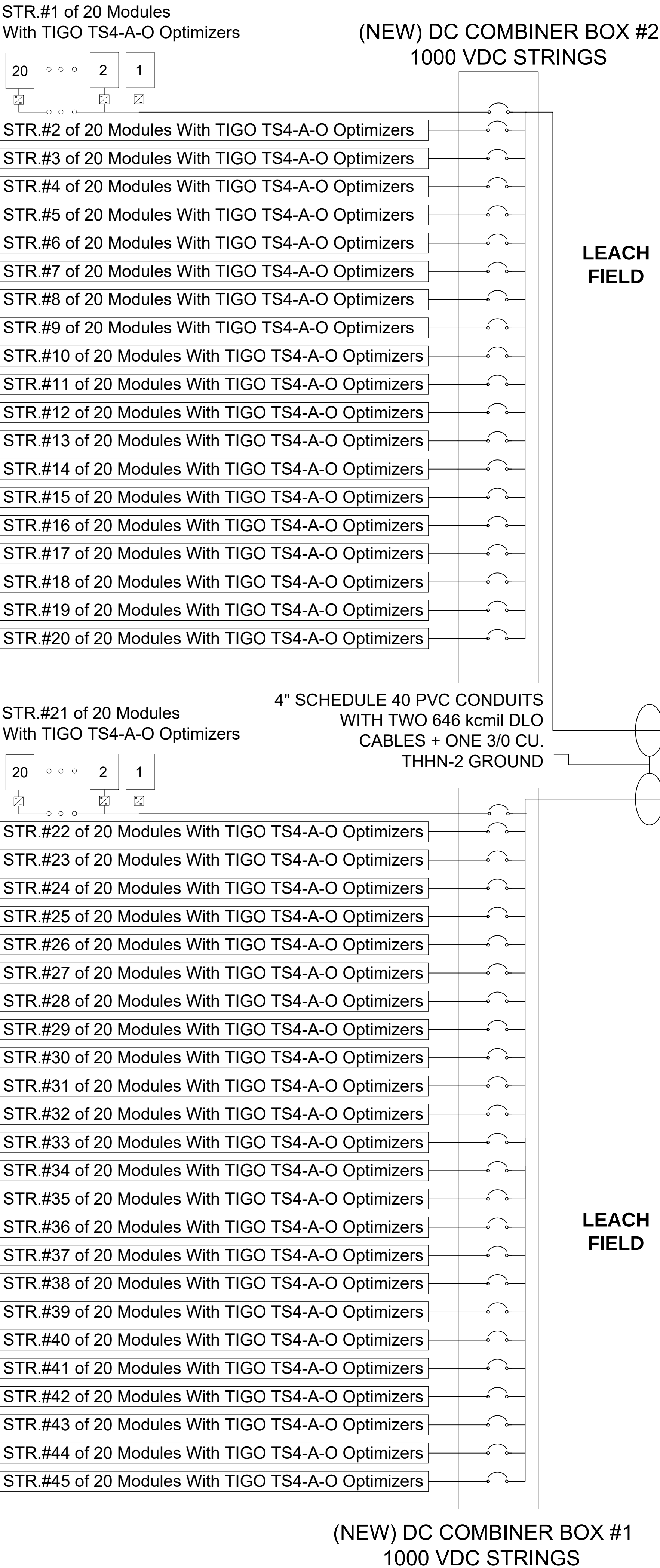
BILL OF MATERIALS

SHEET SIZE

ARCH D
24" X 36"

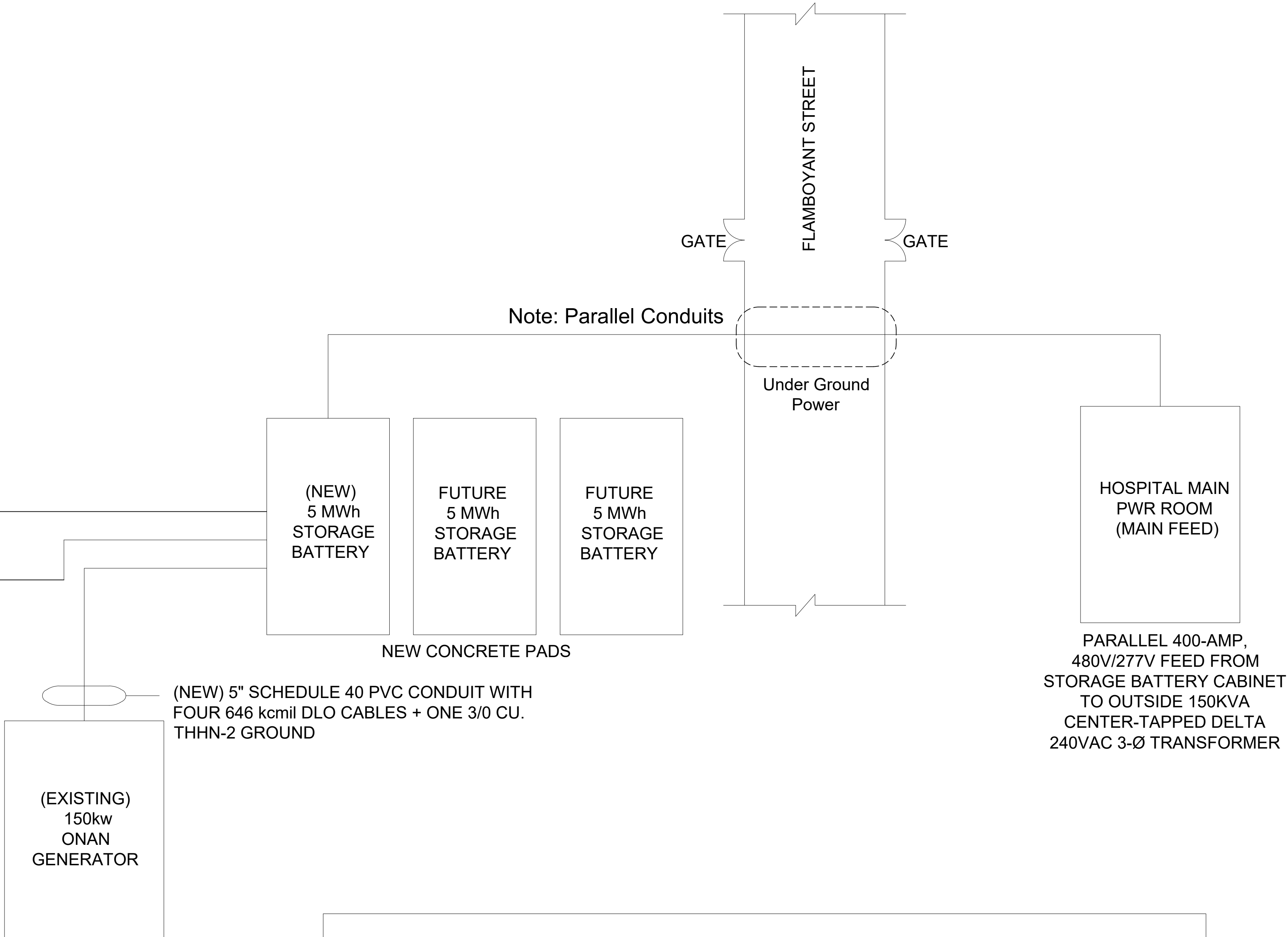
SHEET NUMBER

PV-4.1



LEACH
FIELD

LEACH
FIELD



CALCULATIONS :

1. 6 HRS SOLAR-NOON SUNLIGHT @ 2X150 KWH FROM SOLAR OUTPUT.
2. 400AMP @208 VAC 3Ø PEAK DEMAND AT HBP MAIN FEED.
3. 150AMP @208 VAC 3Ø BASE LOAD FOR 15 HRS DURING DAY.
4. 75AMP @208 VAC 3Ø BASE LOAD FOR 10 HRS DURING NIGHT.

SOLAR PRODUCTION : 6 X 2X150 KWH= 1800 KWH = 1.8 MWH/DAY
PEAK DEMAND : 400 X 208X1.73 X COSØ = 143936 KW
STORAGE BATTERY (FOR 1 DAY) : 150 X 208X $\sqrt{3}$ X COSØ x 15 = 852.8 KWH
+
: 75 X 208X $\sqrt{3}$ X COSØ x 10 = 269.8 KWH = 1.12 MWH

A 5MWh BATTERY WILL LAST 4 DAYS

SYSTEM SIZE:- 270.00 KW DC & 5.0 MWh

900	RECOM RCM-300-6PA 300W MODULES
900	TIGO TS4-A-O OPTIMIZERS
2	DC COMBINER BOX
3	5MWh STORAGE BATTERIES

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DATE: 6/19/2026

SHEET NAME
ELECTRICAL LINE
DIAGRAM

SHEET SIZE
ARCH D
24" X 36"

SHEET NUMBER
PV-5

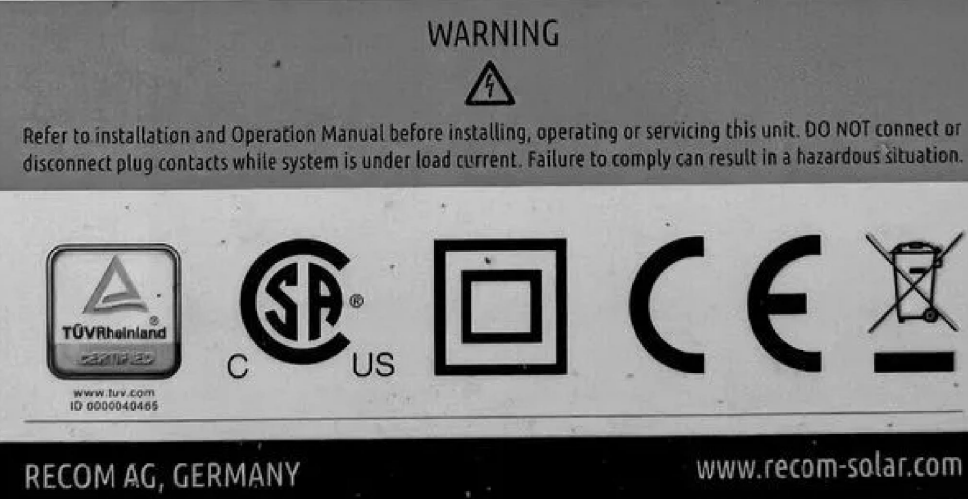
RECOM

MODEL: RCM-300-6PA

Maximum Power (Pmax)	300W
Power Tolerance	0%/+5W
Pmax Temperature Coefficient	-0.39%/°C
Maximum Power Voltage (Vmp)	36.60V
Maximum Power Current (Imp)	8.20A
Open Circuit Voltage (Voc)	44.80V
Short Circuit Current (Isc)	8.69A
Maximum Series Fuse	15A
Maximum System Voltage	1,000 VDC
Field Wiring	Copper only, 12AWG/4mm² min., insulated for 90°C min.
Fire rating	Class C
Application	Class A

Weight	24.0Kg
Dimension	1956x992x40 (mm)
Snow load: 5,400 Pa (113 lb/ft²)	Wind load: 2,400 Pa (50 lb/ft²)

Values at Standard Test Conditions (Air Mass 1.5, Irradiance 1000W/m², Cell Temp. 23°C)



IRONRIDGE

Ground Mount System



All-Terrain Mounting

The IronRidge Ground Mount System combines our XR100 or XR1000 rails with locally-sourced steel pipes or mechanical tubing, to create a cost-effective structure capable of handling any site or terrain challenge. Installation is simple with only a few structural components and no drilling, welding, or heavy machinery required. In addition, the system works with a variety of foundation options—including concrete piers, ground screws, helical or driven piles, and above-ground ballast blocks.

Rugged Construction
Engineered steel and aluminum components ensure durability.

PE Certified
Pre-stamped engineering letters available in most states.

UL 2703 Listed System
Meets newest effective UL 2703 standard.

Design Software
Online tool generates engineering values and bill of materials.

Flexible Architecture
Multiple foundation and array configuration options.

25-Year Warranty
Products guaranteed to be free of impairing defects.

Datasheet



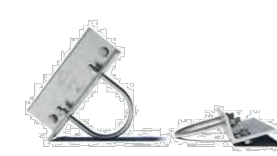
Substructure

Top Caps



Connect vertical and cross pipes.

Bonded Rail Connectors



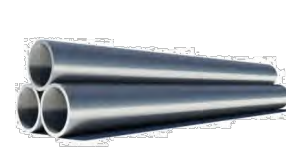
Attach and bond Rail Assembly to cross pipes.

Diagonal Braces



Optional Brace provides additional support.

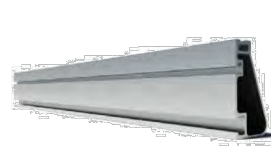
Cross Pipe & Piers



Steel pipes or mechanical tubing for substructure.

Rail Assembly

XR100/XR1000 Rails



Curved rails increase spanning capabilities.

UFOs



Universal Fastening Objects bond modules to rails.

Stopper Sleeves



Snap onto the UFO to turn into a bonded end clamp.

CAMO



Bond modules to rails while staying completely hidden.

Resources



Design Assistant
Go from rough layout to fully engineered system. For free. Go to ironridge.com/design



NABCEP Certified Training
Earn free continuing education credits, while learning more about our systems. Go to ironridge.com/training

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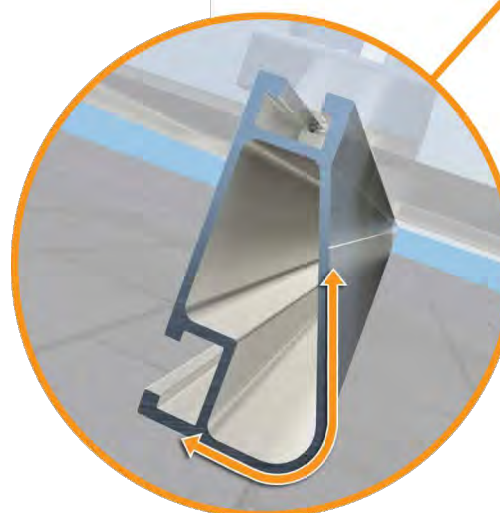
IRONRIDGE

XR Rail Family

Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

XR Rails are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.



Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

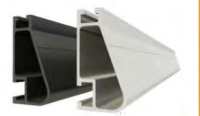
Compatible with Flat & Pitched Roofs

XR Rails are compatible with FlashFoot and other pitched roof attachments.

IronRidge offers a range of tilt leg options for flat roof mounting applications.

Corrosion-Resistant Materials

All XR Rails are made of marine-grade aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.



XR Rail Family

The XR Rail Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail to match.



XR10

XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves 8 foot spans, while remaining light and economical.

- 6' spanning capability
- Moderate load capability
- Clear anodized finish
- Internal splices available



XR100

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 6 feet.

- 6' spanning capability
- Heavy load capability
- Clear & black anodized finish
- Internal splices available



XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans 12 feet or more for commercial applications.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish
- Internal splices available

Rail Selection

The following table was prepared in compliance with applicable engineering codes and standards. Values are based on the following criteria: ASCE 7-10, Roof Zone 1, Exposure B, Roof Slope of 7 to 27 degrees and Mean Building Height of 30 ft. Visit ironridge.com for detailed span tables and certifications.

Load		Rail Span					
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'	10'	12'
None	100	XR10					XR1000
	120						
	140						
	160						
10-20	100	XR10		XR100			
	120						
	140						
	160						
30	100	XR10		XR100			
	160						
40	100	XR10		XR100			
	160						
50-70	160	XR10		XR100			
80-90	160						

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Tigo® Flex MLPE



TS4-A-O
Module-level PV Optimizer

The TS4-A-O (Optimization) is the advanced add-on optimization solution that brings smart module functionality to standard PV modules for higher reliability. Improve energy efficiency by upgrading underperforming PV systems or adding smart features to new installations.

The TS4-A-O complies with NEC 2017 and 2020 690.12 Rapid Shutdown specifications when installed on each module and accompanied by the Tigo Access Point (TAP) and the Cloud Connect Advanced (CCA). Module-level DC production data, as well as data from other Modbus connected devices, can be analyzed via Tigo's Energy Intelligence Software when connected to the cloud.

The TS4-A-O with UHD-Core technology and expanded specifications supports PV modules up to 700W, and 15A.

Included Features



Module-level **optimization** for increased energy yield and greater design flexibility



Manual or automatic module-level **shutdown**. Complies with NEC 2017 and 2020.



Module-level **monitoring** for energy production tracking and system management

Easy Installation

Snap to standard module frame or remove clips for rack mounting

Smart Commissioning

Configure and commission with your Android or iOS mobile device

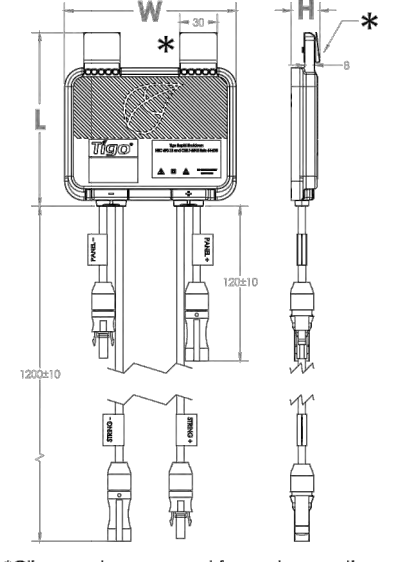


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PSD-0001-5-00 REV 1.1

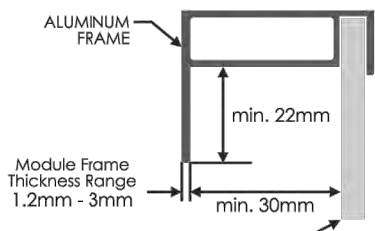
TS4-A-O SPECIFICATIONS

Environmental	
Operating Temperature Range	-40°C to +70°C (-40°F to +158°F)
Outdoor Rating	IP68, NEMA 3R
Maximum Elevation	2000m
Mechanical	
Dimensions	W=138.4mm, L=139.7mm, H=22.9mm
Weight	520g
Electrical	
Max Input Voltage (V _{oc} @ Lowest Temperature)	80V
Input Voltage Range	16 - 80V*
Maximum Cont. Current (I _{max})	15A
Maximum Short Circuit Current (I _{sc})	20A
Maximum Power	700W
Cable Length (in/out)	0.12/1.2m (standard), 0.62/1.2m (optional)
Connectors	MC4 (standard), EVO2 (optional)
Communication Type	Wireless
Recommended Fuse Rating	30A



*Clips can be removed for rack mounting

Module frame specifications for mounting TS4-A



TAP required for module-level shutdown and CCA required for monitoring with TS4-A-O.
*V_{oc} max of the connected panel = TS4-A-O V_{oc} max
**Limits are based on NEC 690.12 rapid shutdown requirements.

ORDERING INFORMATION

PVC00101-A 1500V TÜV, 1.2m Kabel, EVO2

For sales info:
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PV 2.0

ENGINEERING FIRM

THINN ELECTRICAL
ENGINEERING
1529 WEST
ORANGEWOOD AVE,
ORANGE, CA 92868

PROJECT NAME

L'HOPITAL BIENFAISANCE DE
PIGNON SOLAR PROJECT

CONTRACTOR OF RECORD

APPROVED BY:



DATE: 6/19/2026

SHEET NAME
EQUIPMENT
SPEC SHEETS

SHEET SIZE
ARCH D
24" X 36"

SHEET NUMBER
PV-6

ENGINEERING FIRM

THINN ELECTRICAL
ENGINEERING
1529 WEST
ORANGEWOOD AVE,
ORANGE, CA 92868

PROJECT NAME

L'HOPITAL BIENFAISANCE DE
PIGNON SOLAR PROJECT

CONTRACTOR OF RECORD

APPROVED BY:

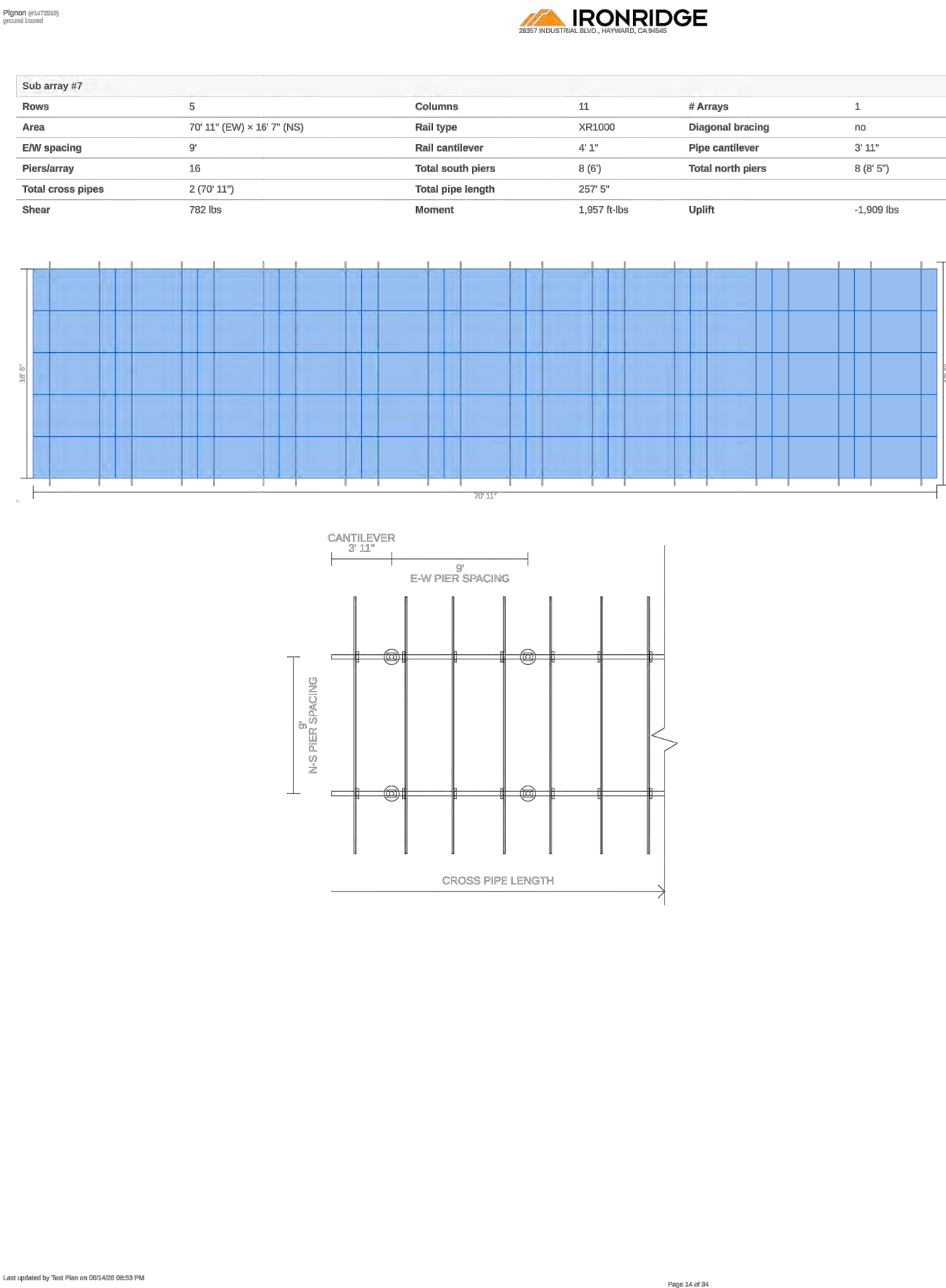
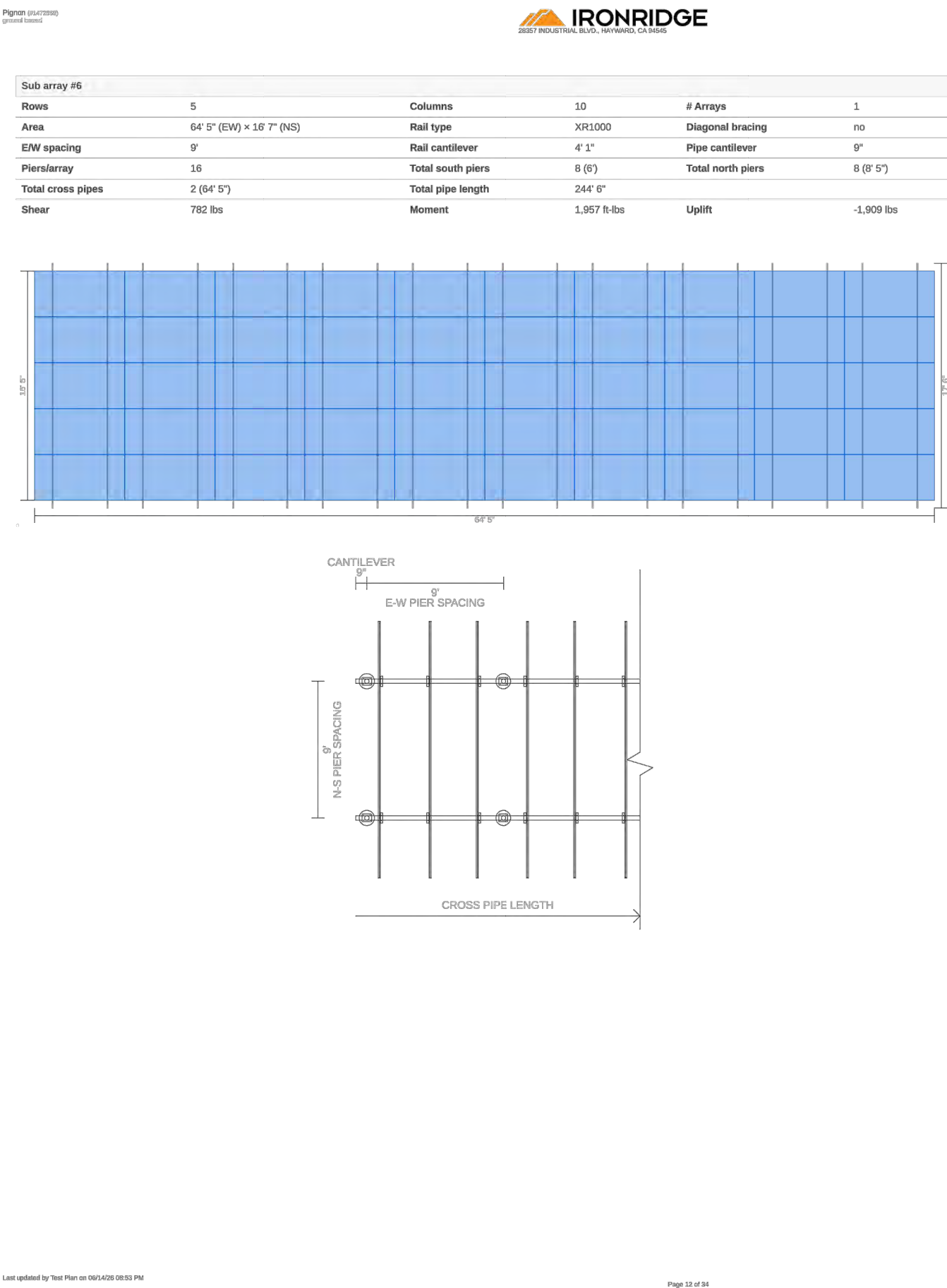
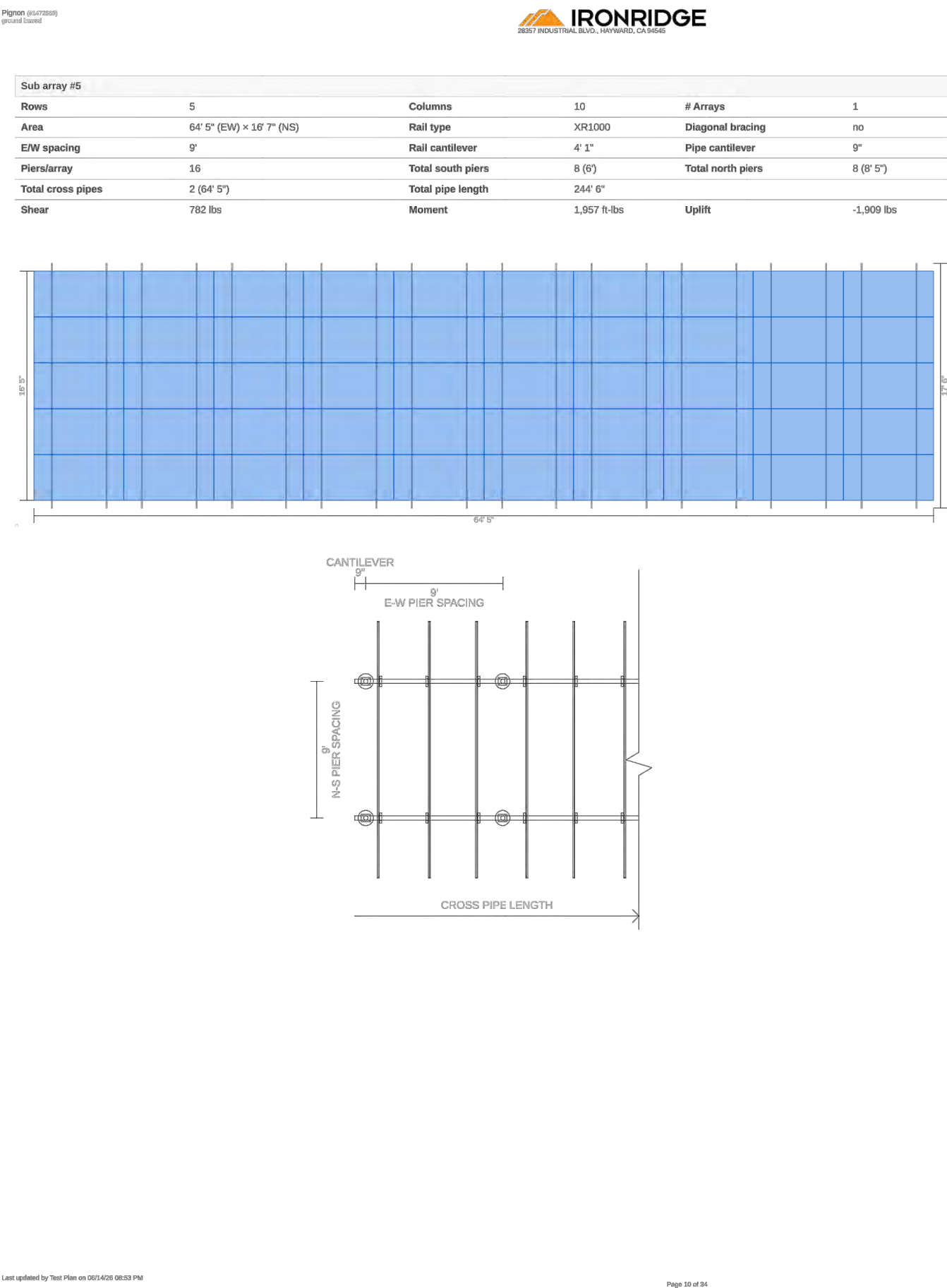
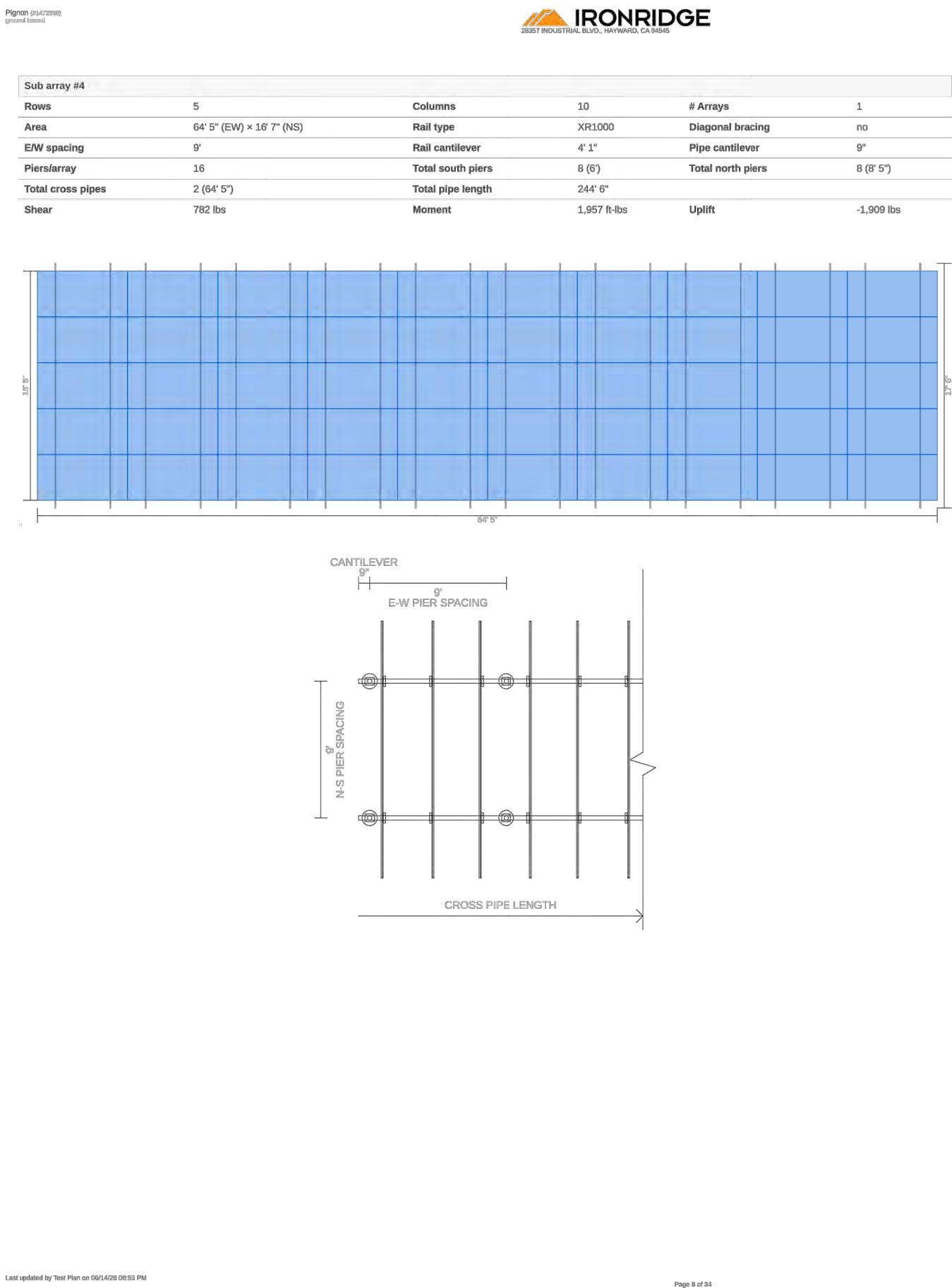
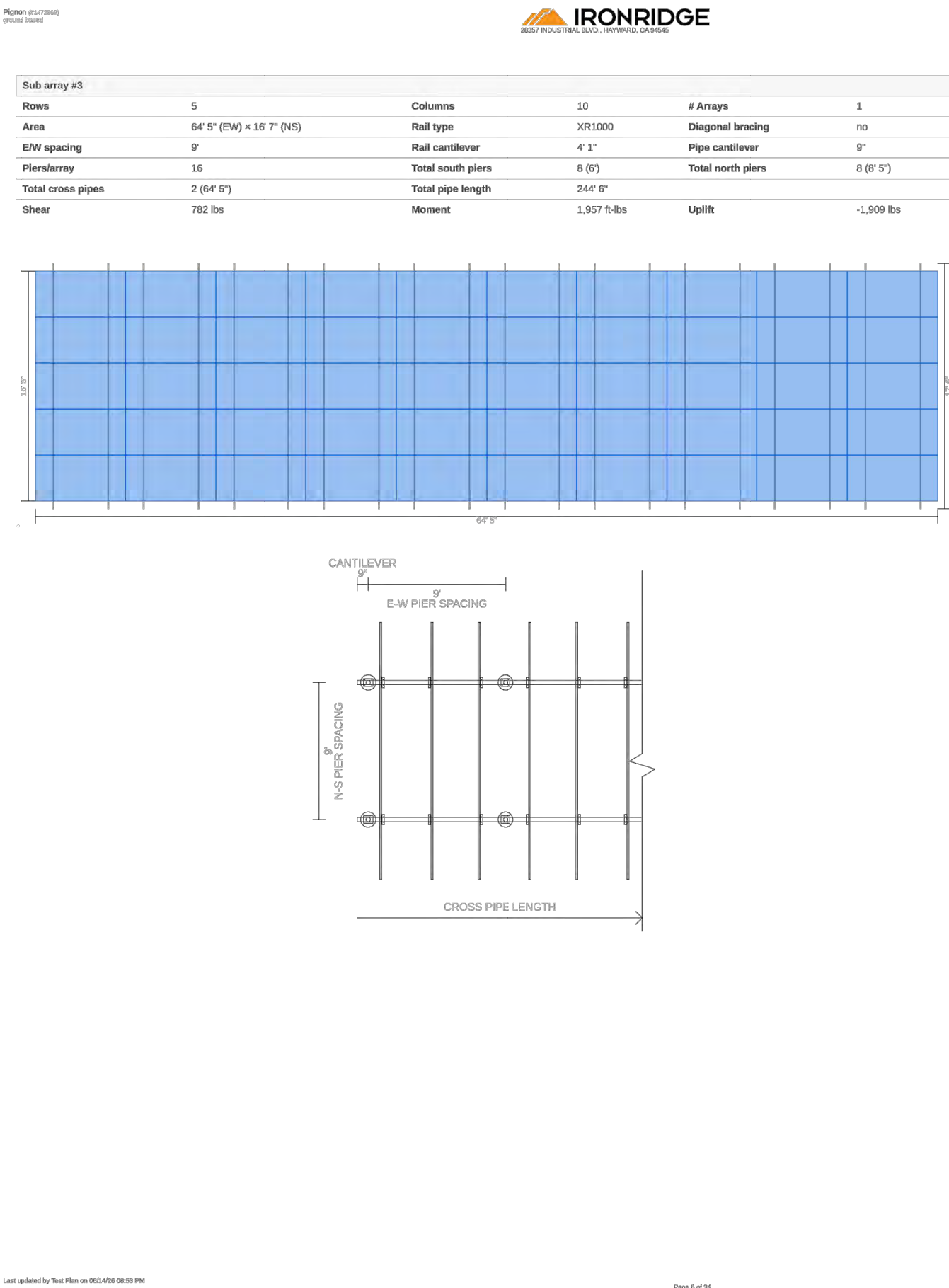
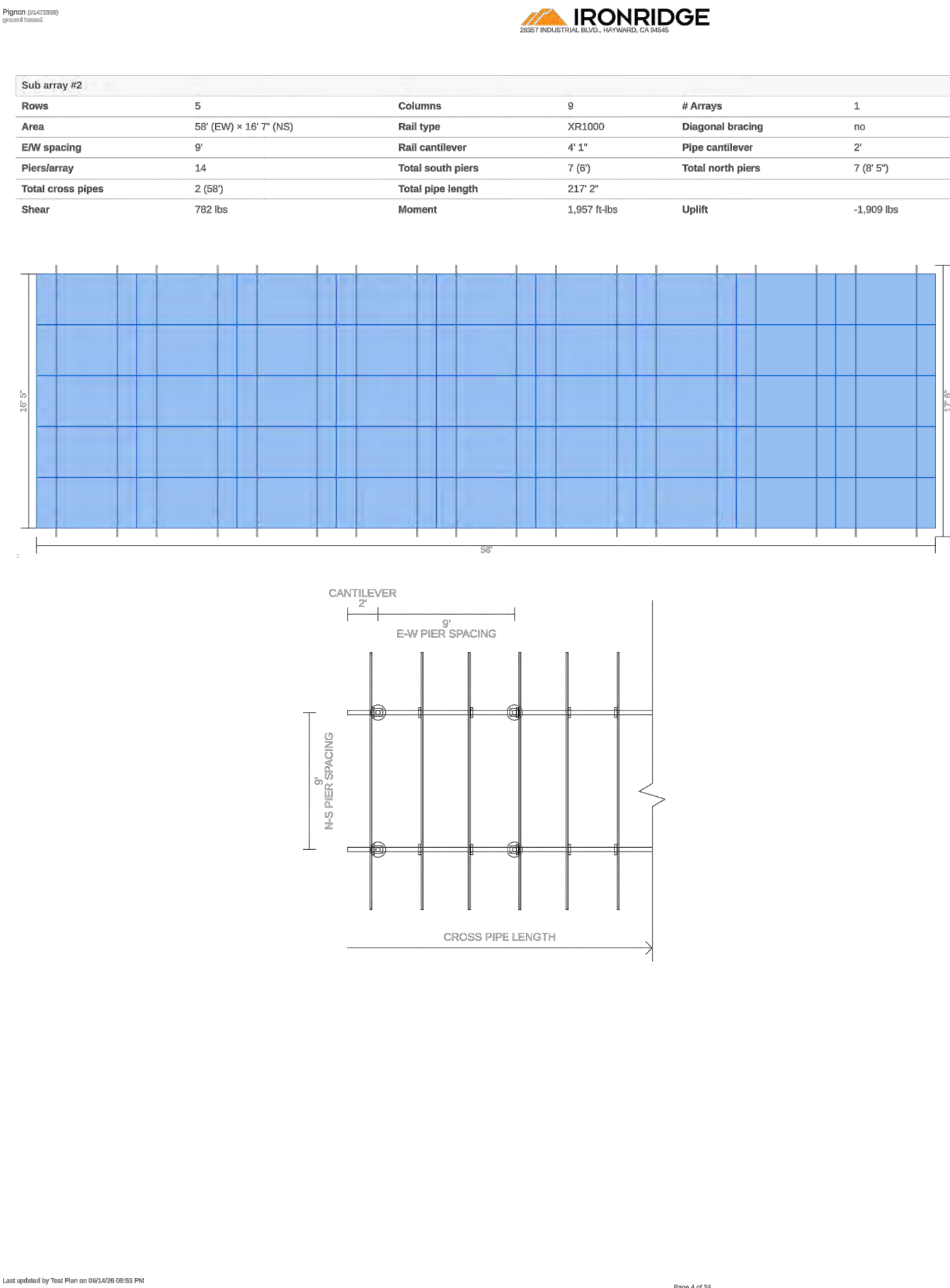
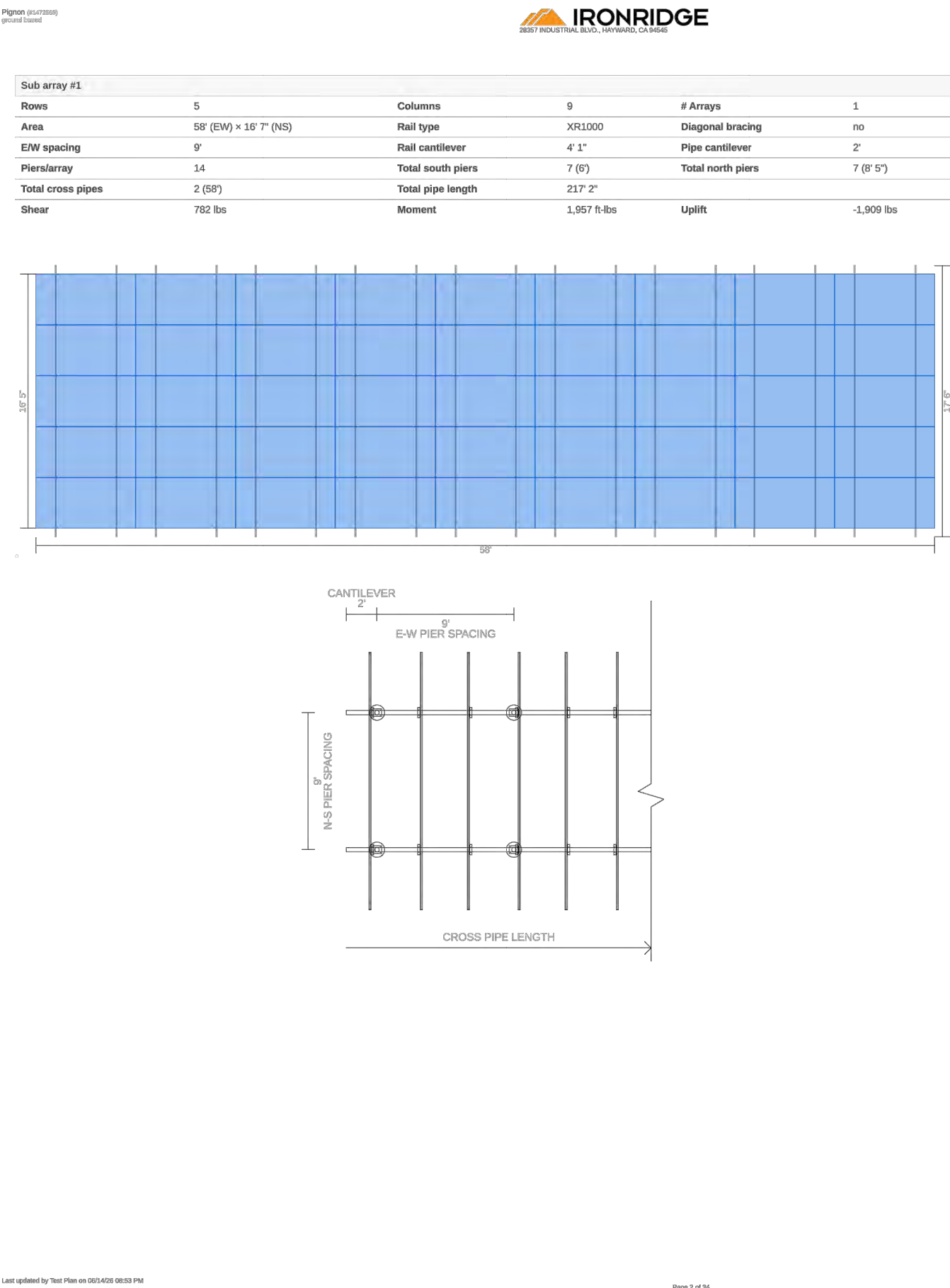
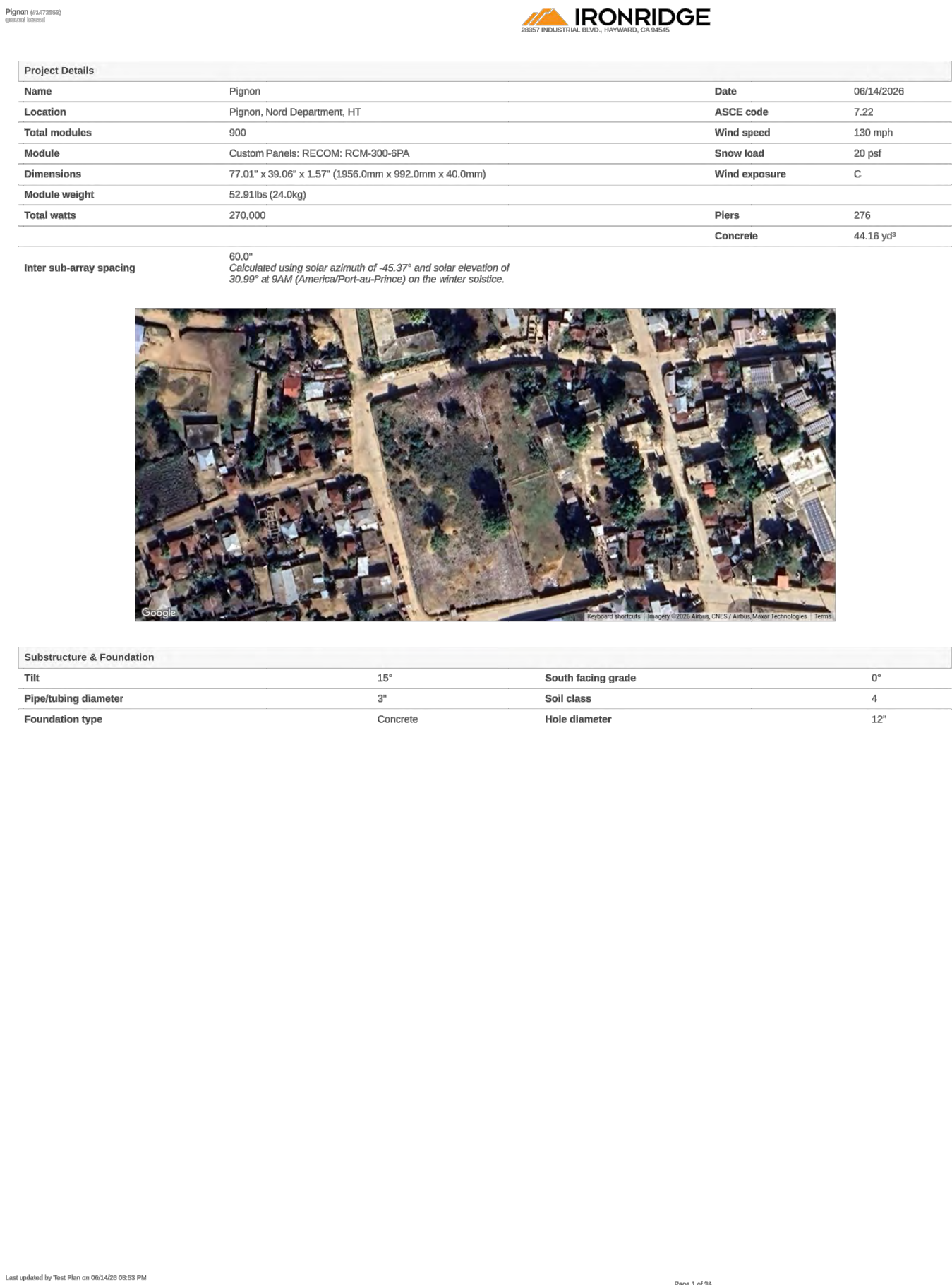


DATE: 6/19/2026

SHEET NAME
EQUIPMENT
SPEC SHEETS

SHEET SIZE
ARCH D
24" X 36"

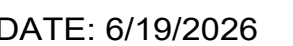
SHEET NUMBER
PV-7



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ORANGE, CA 92868

**L'HOPITAL BIENFAISANCE DE
PIGNON SOLAR PROJECT**

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SHEET SIZE
ARCH D
24" X 36"

SHEET NUMBER
PV-9



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