County of Monterey

Carmel Highlands Fire Protection District
73 Fern Canyon Rd.
Carmel, CA 93923

Meeting Agenda - Final

Monday, May 19, 2025
4:00 PM

Carmel Unincorporated/Highlands Land Use Advisory Committee

Submit your comments via email at least a day prior to the meeting to the Liaison at: honoratoh@countyofmonterey.gov

NOTE: All agenda titles related to numbered agenda items are live web links. Click on the title to be directed to the corresponding staff report and associated documents.

3:15 PM - SITE VISIT

Project Name: Carmelite Monastery of Carmel
File Number: PLN240240
Project Location: 27601 Highway 1, Carmel

ADJOURN TO REGULAR SCHEDULED MEETING

MEETING LOCATION: Carmel Highlands Fire Projection District Office, 73 Fern Canyon Road, Carmel

CALL TO ORDER

ROLL CALL

APPROVAL OF MINUTES

Approval of the April 7, 2025, meeting minutes.

PUBLIC COMMENT

The Committee will receive public comment on non-agenda items that are within the purview of the Committee at this time. The length of individual presentations may be limited by the Chair. Please submit your public comment to the Liaison at honoratoh@countyofmonterey.gov

4:00 PM - SCHEDULED ITEM(S)

1. Project Name: CARMELITE MONASTERY OF CARMEL
   File Number: PLN240240
   Project Location: 27601 HIGHWAY 1, CARMEL
   Assessor's Parcel Number(s): 243-101-002-000
   Project Planner: Fionna Jensen
   Area Plan: Carmel Land Use Plan, Coastal Zone
   Project Description: Combined Development Permit consisting of a: 1) Coastal Administrative Permit and Design Approval to allow a ground mount photovoltaic system consisting of 57.6 kW and to 144 panels; 2) Coastal Development Permit for development within 750 feet of known archeological resources; and 3) Coastal Development Permit to allow development within 100 feet of Environmentally Sensitive Habitat Area.
   Recommendation for the LUAC to provide feedback on site design, neighborhood character compatibility, and local considerations.

Attachments: Project Plans

OTHER ITEMS

A) Preliminary Courtesy Presentation by Applicants Regarding Potential Projects
B) Announcements

ADJOURNMENT

Note: To view additional documents related to project(s) listed on the Land Use Advisory Committee agenda, please visit https://aca-prod.accela.com/MONTEREY/Default.aspx . Enter the file number in the "Quick Search" box; click on "Record Info" tab; click on "Attachments" in the drop-down menu; finally click on the document you wish to view.

County of Monterey

Board Report

Legistar File Number: HCD 25-006

Item No.1

Board of Supervisors
Chambers
168 W. Alisal St., 1st Floor
Salinas, CA 93901

May 19, 2025

Introduced: 5/12/2025
Version: 1

Current Status: Agenda Ready
Matter Type: HCD Agenda Item

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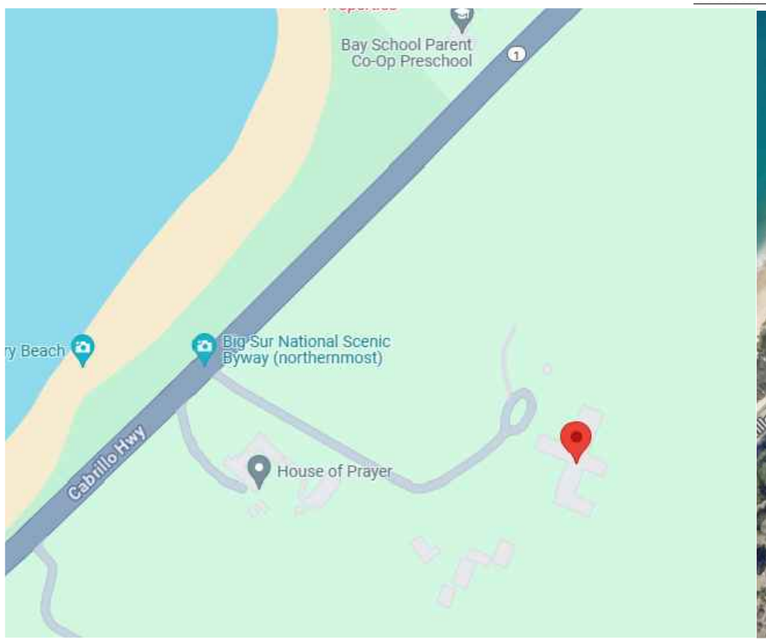
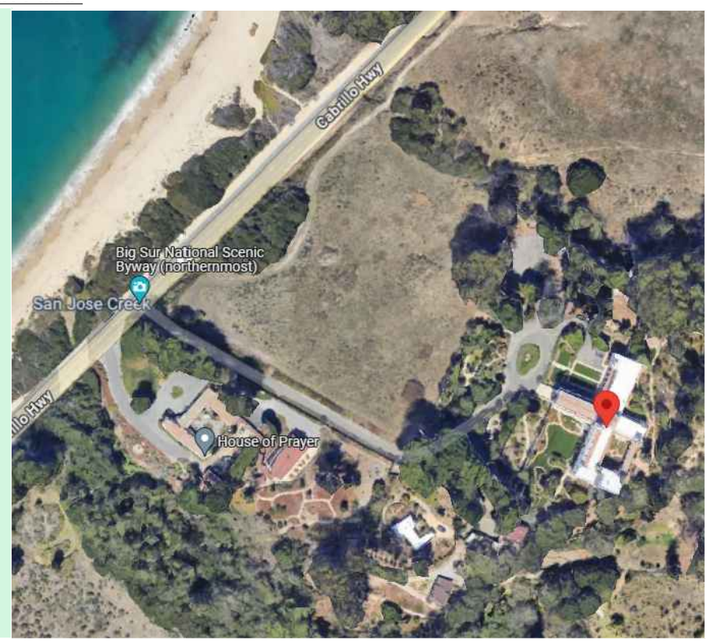
Recommendation for the LUAC to provide feedback on site design, neighborhood character compatibility, and local considerations.

GENERAL NOTES:

1. LOCAL UTILITY PROVIDER SHALL BE NOTIFIED PRIOR TO USE AND ACTIVATION OF ANY SOLAR PHOTOVOLTAIC INSTALLATION.
2. NO SHEET METAL OR TECH SCREWS SHALL BE USED TO GROUND DISCONNECT ENCLOSURE WITH TIN-PLATED ALUMINUM LUGS; PROPER GROUNDING/GROUND BAR KITS SHOULD BE USED.
3. ALL EXTERIOR CONDUIT, FITTINGS, AND BOXES SHALL BE WITH RAIN TIGHT AND APPROVED FOR USE IN WET LOCATIONS.
4. BACK-FED BREAKER MUST BE AT THE OPPOSITE END OF BUS BAR FROM THE MAIN BREAKER OR MAIN LUG SUPPLYING CURRENT FROM THE UTILITIES.
5. ALL CONDUCTORS EXPOSED TO SUNLIGHT ARE LISTED AS SUNLIGHT RESISTANT.
6. INSTALLER TO FOLLOW ALL LOCAL JURISDICTION GUIDELINES.
7. GROUNDING BUSHINGS ARE REQUIRED AROUND PRE-PUNCHED CONCENTRIC KNOCKOUTS ON THE DC SIDE OF THE SYSTEM.
8. DRAWINGS ARE DIAGRAMMATIC ONLY. THE LOCATION AND ROUTING OF RACEWAYS SHALL BE DETERMINED BY THE CONTRACTOR UNLESS OTHERWISE NOTED OR STANDARDIZED.
9. ALL EQUATIONS ACCOUNT FOR WORST CASE CONDITIONS.
10. IF A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, OVERCURRENT PROTECTION, GROUNDING SYSTEMS, ETC. (ALL EQUIPMENT AND MATERIALS) THE CONTRACTOR AND OR HOME OWNER SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIALS AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS IN THE SPECIFICATIONS OR NOTED ON THE PLANS TO ENSURE COMPLETE COMPLIANCE WITH ALL CODES AND TO ENSURE THE LONGEVITY AND SAFETY OF THE OPERABLE SYSTEM.
11. ALL OUTDOOR EQUIPMENT SHALL BE MIN. NEMA 3R RATED.
12. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ANY AND ALL REQUIREMENTS GIVEN BY UTILITY COMPANIES.
13. FOR ADDITIONAL EQUIPMENT SPECIFICATIONS, SEE PROVIDED CUT SHEETS.
14. ALL LABELS AND MARKINGS SHALL BE ATTACHED ACCORDING TO REQUIREMENTS BY LOCAL AHJ. THE AHJ MAY HAVE SPECIAL LABEL REQUIREMENTS BEYOND THE SCOPE OF THIS DOCUMENT.

VICINITY MAP





Prepared by(N.H.)
www.solarpermitservices.com
info@solarpermitservices.com
(949) 872-8236
Solar Permit Services, Inc.

SCOPE OF WORK:

GROUND MOUNT PV SOLAR

ARRAY / MODULES:
(144)HYUNDAI SOLAR HIS-S400YH(BK) 400W

INVERTER(S) / MICRO / OPTIMIZERS:
(2)SOL-ARK C&I HYBIRD 30K-3P-208V
(36)(9X4)DEKA DD5300 HIGH VOLTAGE DURATION 5.3 BATTERIES

ARRAY PITCH: 15°

AZIMUTH: 180°

ONE-STORY HOUSE

LISTED BY UNDERWRITERS LABORATORIES FOR ELECTRICAL AND FIRE SAFETY(CLASS A FIRE RATING)
1) NO DISCHARGE OF ANY POLLUTANTS TO ANY STORM DRAIN SYSTEM.
2) UL 1703 FOR MODULES & UL 1741 FOR INVERTERS PER CITY SOLAR REQUIRMENTS.

THIS PROJECT SHALL COMPLY WITH THE :
2022 CA BUILDING CODE
2022 CA PLUMBING CODE
2022 CA RESIDENTIAL CODE
2022 CA ENERGY CODE
2022 CA MECHANICAL CODE
2022 CA FIRE CODE
2022 CA ELECTRICAL CODE
ORDINANCES OF CITY AND OR COUNTY OF CARMEL

INDEX SHEET :

UMSTEAD ELECTRIC

MODULES / INVERTER(S) /OPTIMIZERS
(144)HYUNDAI SOLAR HIS-S400YH(BK) 400W
(2)SOL-ARK C&I HYBIRD 30K-3P-208V
(36)DEKA DD5300 HIGH VOLTAGE DURATION 5.3 BATTERIES

SYSTEM SIZE:	
57.600 KW DC (STC)	
52.430 KW DC (PTC)	
50.857 KW AC (CEC)	

COMPLETED:	8/20/2024
REVISION #1:	
REVISION #2:	

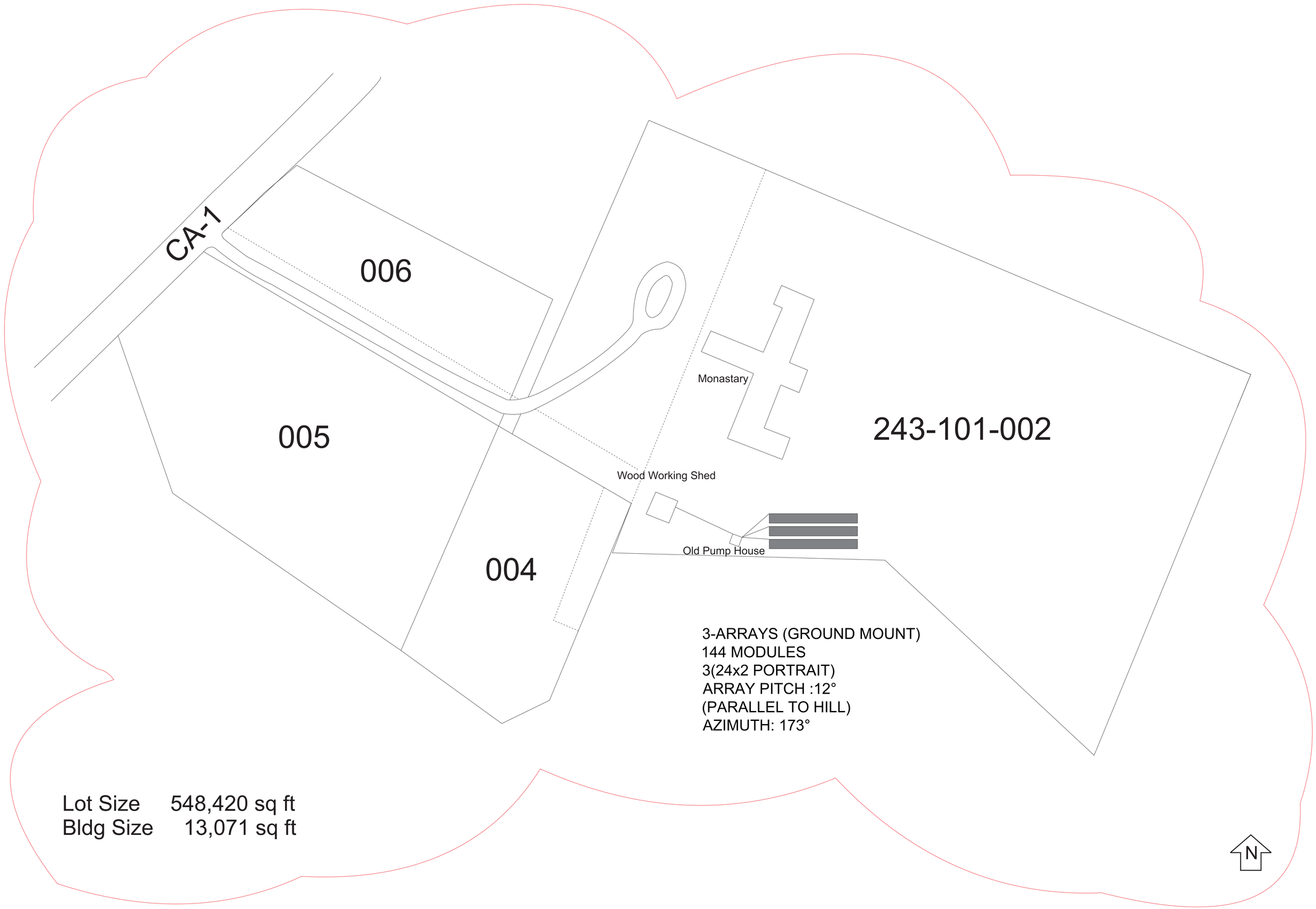
PROJECT:
CARMELITE MONASTERY
27601 CA-1
CARMEL, CA 93923
OCCUPANCY TYPE: A GROUP·A-3
APN# 243-101-002-000
36.523111349, -121.922885291

PHONE# 831 214 3497

UMSTEAD ELECTRIC
602 S 1ST ST.
KING CITY, CA 93930
PHONE: 831 214 3497

CONTRACTOR: TED UMSTEAD
STATE LICENSE # 776831
LICENSE CLASS C-10
EXPIRATION DATE 05/31/2026

CS1



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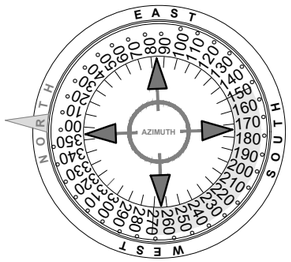
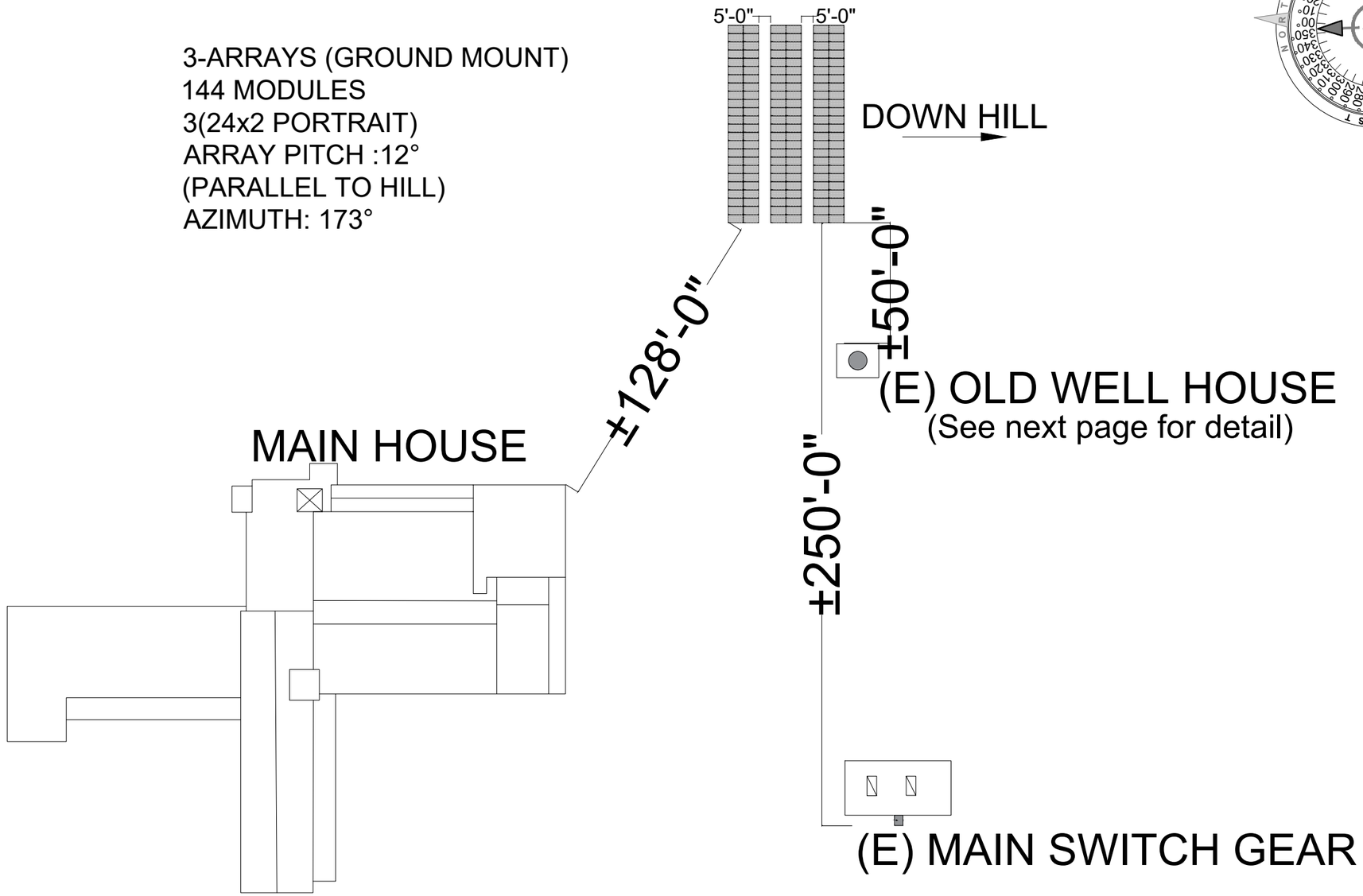
B2

3-ARRAYS (GROUND MOUNT)
144 MODULES
3(24x2 PORTRAIT)
ARRAY PITCH :12°
(PARALLEL TO HILL)
AZIMUTH: 173°





0' 10' 20' 50' 100' 150'

SCALE:
1" = 50'

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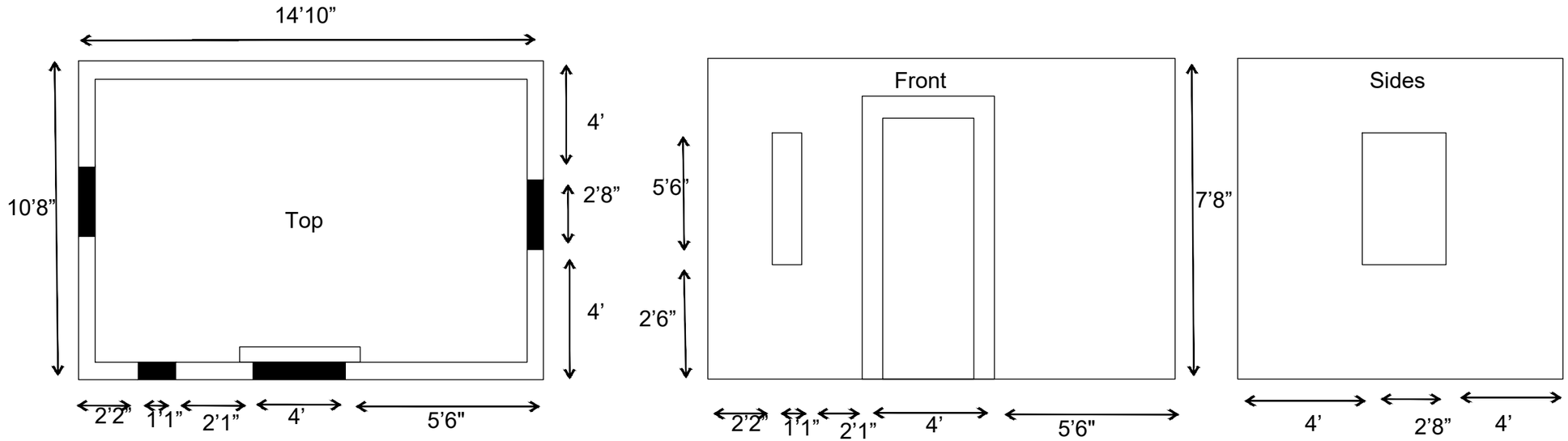

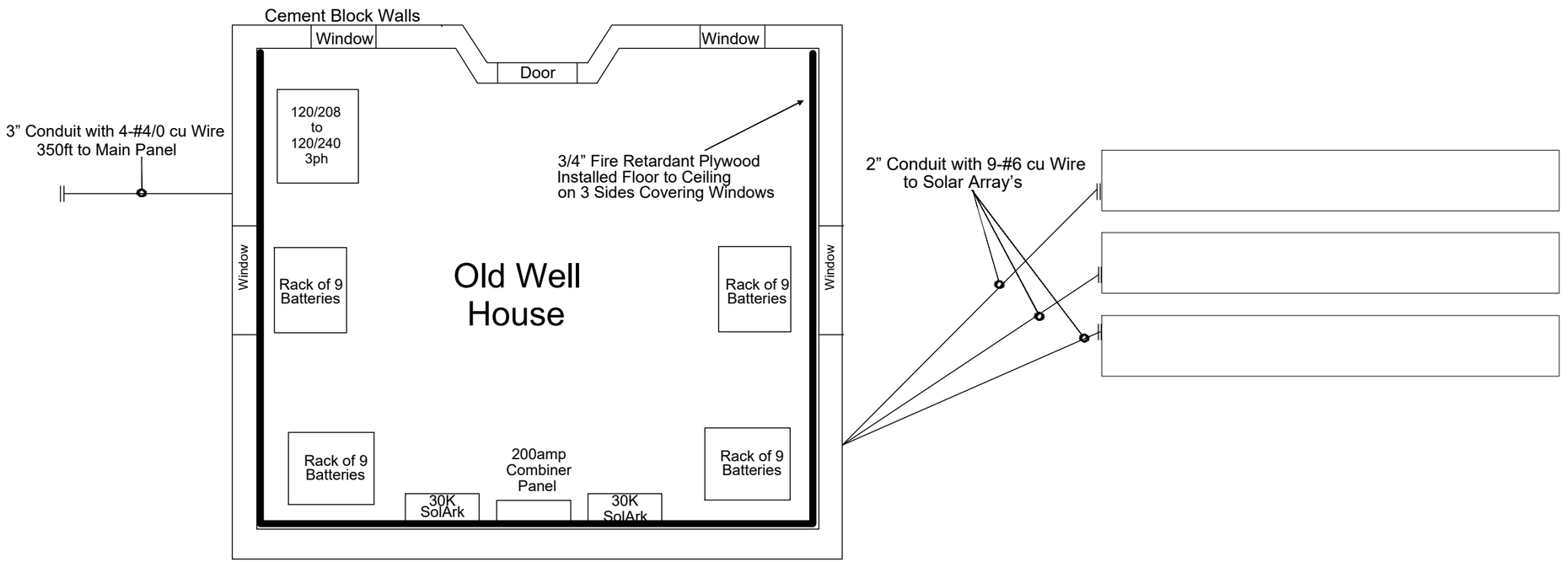

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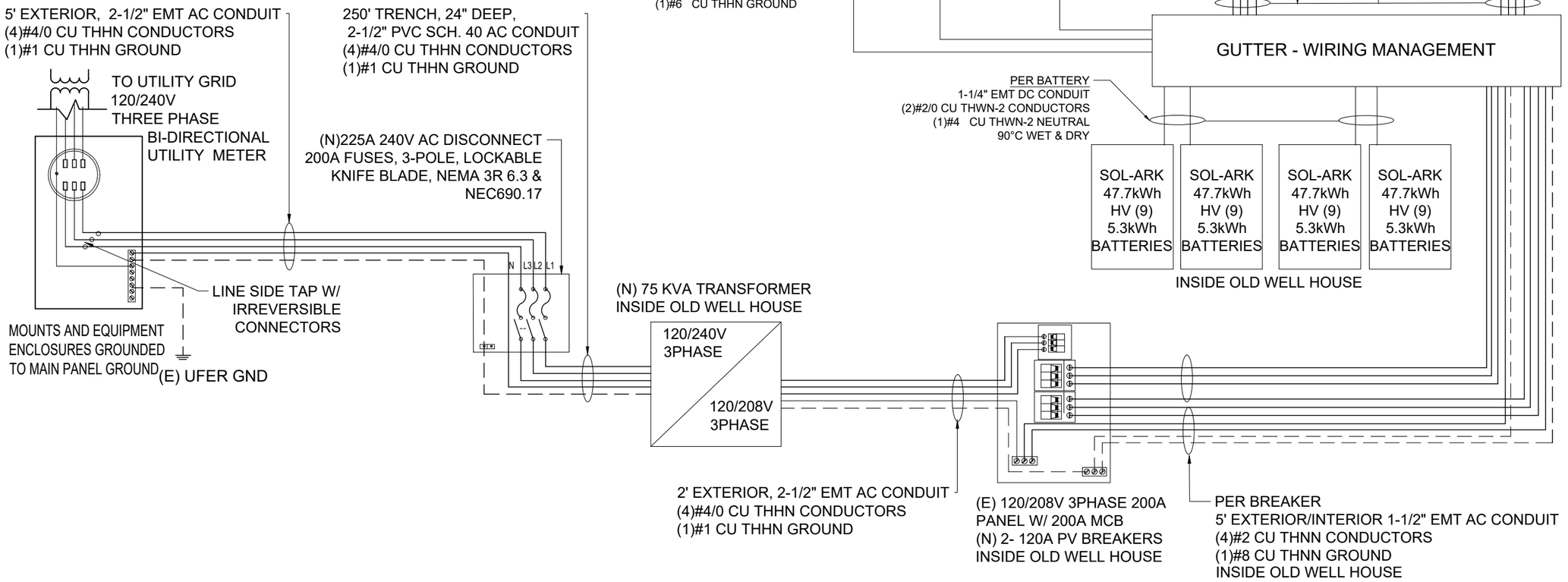
B4

ELECTRICAL NOTES:

E1. ALL EQUIPMENT IS LISTED FOR USE.
E2. MAXIMUM VOLTAGE DOES NOT EXCEED 600VDC.
E3. ANY EQUIPMENT OR ELECTRICAL MATERIALS USED FOR THIS INSTALLATION SHALL BE NEW AND LISTED BY A RECOGNIZED ELECTRICAL TESTING LABORATORY.
E4. CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT WEATHERPROOF PULL BOXES OR JUNCTION BOXES/COMBINER BOXES PER APPROPRIATE JURISDICTIONAL REQUIREMENTS.
E5. ALL PV ARRAYS SHALL BE EQUIPPED WITH DC GROUND FAULT PROTECTION.
E6. ANY AC COMPONENT SHALL MEET OR EXCEED THE AVAILABLE FAULT CURRENT CALCULATED AT THAT COMPONENT.
E7. ALL MODULES AND ANY RELATED ROOF MOUNTED METALLIC EQUIPMENT SHALL BE PROPERLY GROUNDED.
E8. DC EQUIPMENT SHALL BE 600VDC RATED MINIMUM.
E9. MARKINGS SHALL BE PROVIDED TO INDICATE THAT ALL CONTACTS OF THE DISCONNECT EQUIPMENT MIGHT BE ENERGIZED.
E10. INVERTER(S) SHALL CONTAIN A GROUND FAULT DETECTION AND INTERRUPTION DEVICE.
E11. ALL METALLIC RACEWAYS AND EQUIPMENT SHALL BE BONDED AND ELECTRICALLY CONTINUOUS.
E12. THE POINT OF CONNECTION COMPLIES WITH APPLICABLE CEC/NEC.
E13. BACKFED SOLAR BREAKER(S) SHALL BE INSTALLED AT THE OPPOSITE END OF THE CIRCUIT OR FURTHEST AWAY FROM THE MAIN BREAKER.
E14. ALL WIRE, VOLTAGES, AMPERAGES AND EQUIPMENT IS SIZED ACCORDING TO TEMPERATURE DERATING AND LOCATION.
E15. ONLY COPPER (CU) CONDUCTORS SHALL BE USED. CONDUCTORS SHALL BE STRANDED OR SOLID WITH PROPERLY RATED CONNECTORS.
E16. DISCONNECT SHALL BE WIRED SO NO BLADES ARE ENERGIZED
E17. ALL MODULES AND RACKING SHALL BE GROUNDED USING 2703 UL LISTED RAIL INTEGRATED GROUNDING SYSTEM OR WITH TIN PLATED DIRECT BURIAL RATED LAY IN LUGS USING STAINLESS STEEL HARDWARE, STAR WASHERS, AND THREAD FORMING BOLTS OR WEEBS.
E18. ALL EQUIPMENT SHALL BE GROUNDED, INCLUDING BONDING JUMPERS WHERE NECESSARY ACROSS RAIL SPLICE PLATES TO BOND INDIVIDUAL PIECES OF RAIL THAT ARE CONNECTED AS AN EXPANSION SPLICE.



PER INVERTER

PTC RATING IS: 364.10W				
72	x 364.1	x 0.965	/ 1000 =	25.298 KW-AC (CEC)
72	x 364.1		/ 1000 =	26.215 KW-DC (PTC)

VOLTAGE DROP % CALCULATION				
VD=100' x	2 x 1.24 x	10.61/1000=	2.63V	
% =2.63V /	240V =	0.0110	1.10%	

ARRAY RATING
VOC: 271.80 VDC
VMP: 226.20 VDC
ISC: 45.00 ADC
IMP: 42.44 ADC

CEC 690.8(A)(1),(B)(1)EACH
ISC = 11.25 x 1.25 x 1.25 = 17.58A
INVERTER DC MAX. INPUT CURRENT = 36.0A
voc =45.3 x 1.13 x 6 = 307.1V/DC
INVERTER MAX. INPUT VOLTAGE = 550 V/DC

SUB PANEL PV-CB SIZE = 120A			
83.4A	x 1.25 =	104.25A	

CALCULATIONS FOR CURRENT CARRYING CONDUCTORS: **DC** REQUIRED CONDUCTOR AMPACITY				
11.25	x 1.25 x	1.25 =	**17.58A**	
AWG #10	DERATED AMPACITY:			
40	X 0.58 X	0.8 =	**18.6A**	
18.56A ≥ 17.58A				
THEREFORE **DC** WIRE SIZE IS VALID				

CALCULATIONS FOR CURRENT CARRYING CONDUCTORS: **AC** REQUIRED CONDUCTOR AMPACITY			
83.4A	x 1.25 =	**104.25A**	
AWG #2	DERATED AMPACITY:		
155	X 0.91 X	0.8 =	**112.8A**
112.84A ≥ 104.25A			
THEREFORE **AC** WIRE SIZE IS VALID			

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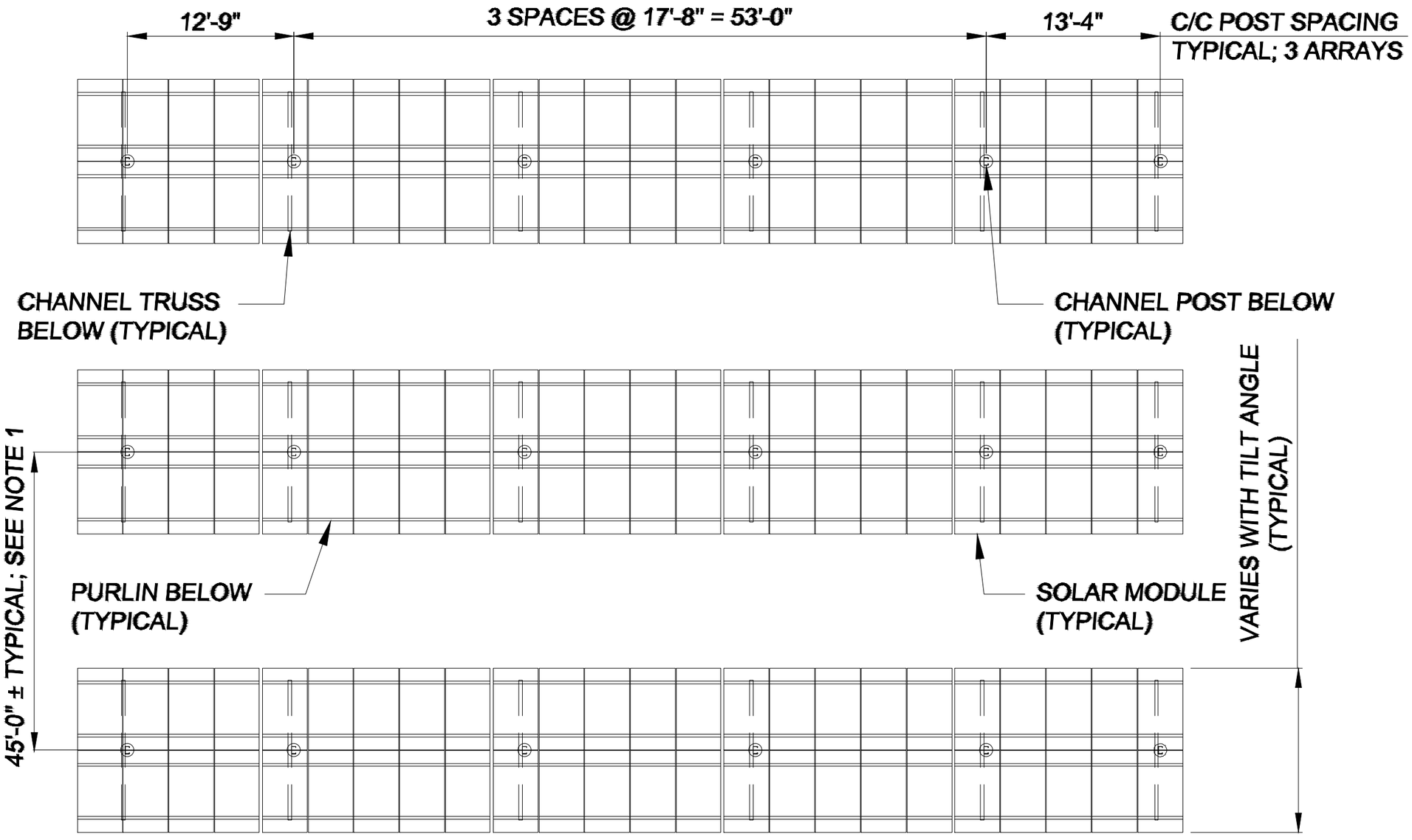
E5



NOTES

1. C/C POST DIMENSION AS SHOWN MAY BE FIELD MODIFIED; HOWEVER, CONSIDERATION SHOULD BE GIVEN TO SHADING
2. WEST FACING POST SHOWN IN RACKING SIDE ELEVATION VIEW. EAST FACING POST SIMILAR
3. BOTTOM OF POST SHALL BE NO MORE THAN 2'-6" ABOVE BOTTOM OF CONCRETE FOUNDATION
4. FOUNDATION BORINGS SHALL BE MADE INTO UNDISTURBED SOIL
5. ALL CONCRETE SHALL BE AIR ENTRAINED (5% TO 8%), HAVE A 3 1/2" TO 4 1/2" SLUMP, AND OBTAIN A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 4,000 PSI AT 28 DAYS
6. SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION GUIDE AND SPECIFICATIONS
7. DRAINAGE SHALL BE DIVERTED AWAY FROM POSTS. POSTS SHALL NOT BE INSTALLED IN SWALES, DRAINAGE AREAS, OR WHERE WATER MAY BE ALLOWED TO FLOW OR STAND
8. EXISTING GRADE SHALL BE NOMINALLY FLAT WITH NO MORE THAN 5" SLOPE
9. DAMAGED COMPONENTS SHALL BE REJECTED AND REPLACED
10. 55 DEGREES (FROM HORIZONTAL) SHALL BE THE MAXIMUM TILT IN THE WINTER AND 15 DEGREES (FROM HORIZONTAL) SHALL BE THE MINIMUM TILT IN THE SUMMER. THE SYSTEM SHALL BE ADJUSTED THROUGHOUT THE YEAR BETWEEN THESE TWO TILT ANGLES
11. SEE SHEETS C1 THROUGH C3 FOR STANDARD CONNECTION DETAILS AND NOTES

TOTAL MODULE COUNT: 144

RACKING PLAN VIEW

SCALE: NONE

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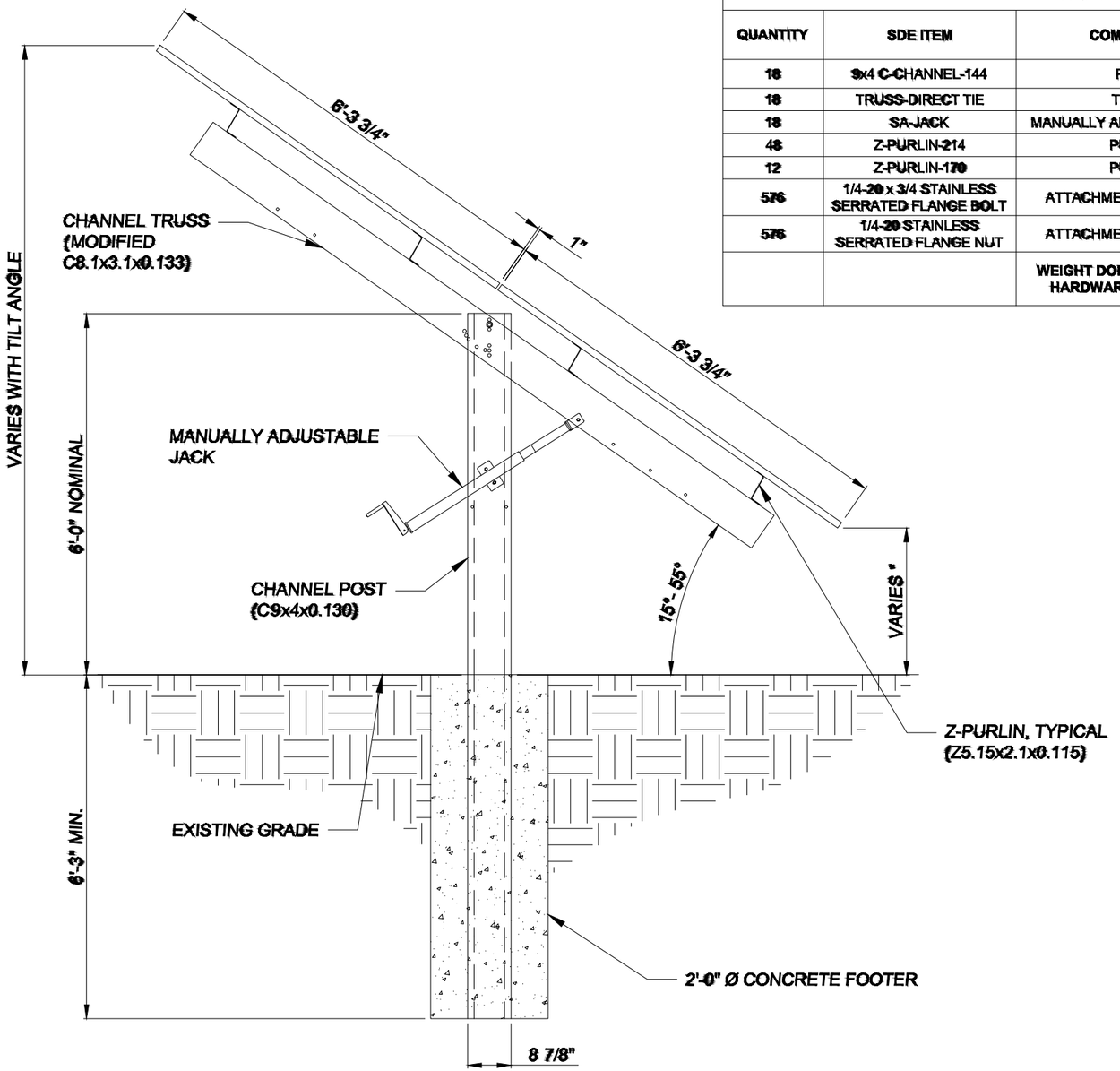
S6

BILL OF MATERIALS				
QUANTITY	SDE ITEM	COMPONENT	COMPONENT WEIGHT (LBS)	TOTALS (LBS)
18	9x4 C-CHANNEL-144	POST	95	1710
18	TRUSS-DIRECT TIE	TRUSS	75	1350
18	SA-JACK	MANUALLY ADJUSTABLE JACK	15	270
48	Z-PURLIN-214	PURLIN	62	2976
12	Z-PURLIN-170	PURLIN	49	588
576	1/4-20 x 3/4 STAINLESS SERRATED FLANGE BOLT	ATTACHMENT HARDWARE	NA	-
576	1/4-20 STAINLESS SERRATED FLANGE NUT	ATTACHMENT HARDWARE	NA	-
		WEIGHT DOES NOT INCLUDE HARDWARE OR CLAMPS	TOTAL WEIGHT (LBS)	6894



* APPROX. 1'-4" @ 55 DEGREES
APPROX. 4'-10" @ 15 DEGREES

RACKING SIDE ELEVATION VIEW

SCALE: NONE

TRUSS TOP AND BOTTOM FLANGES
NOT SHOWN FOR CLARITY

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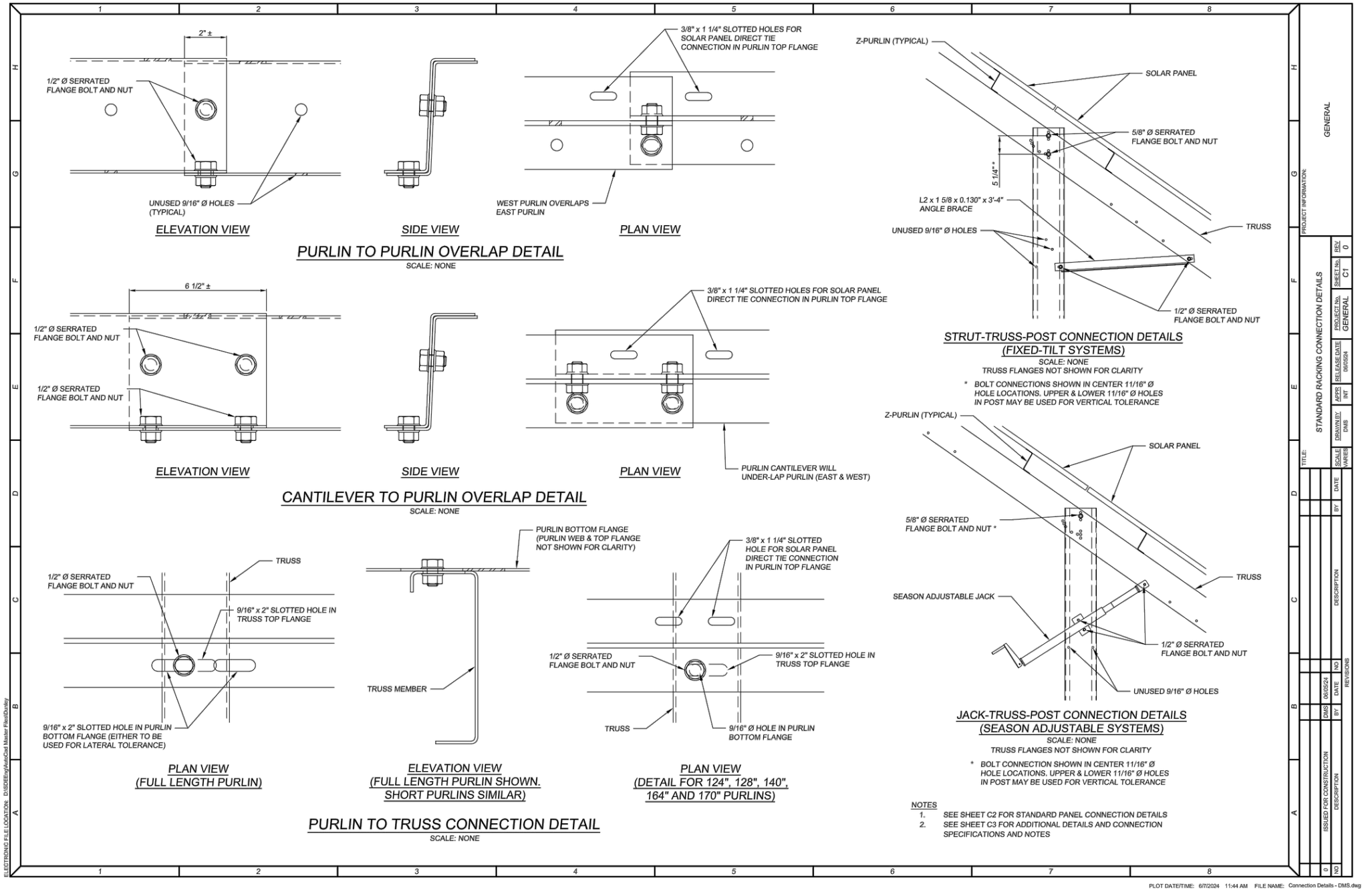
S7



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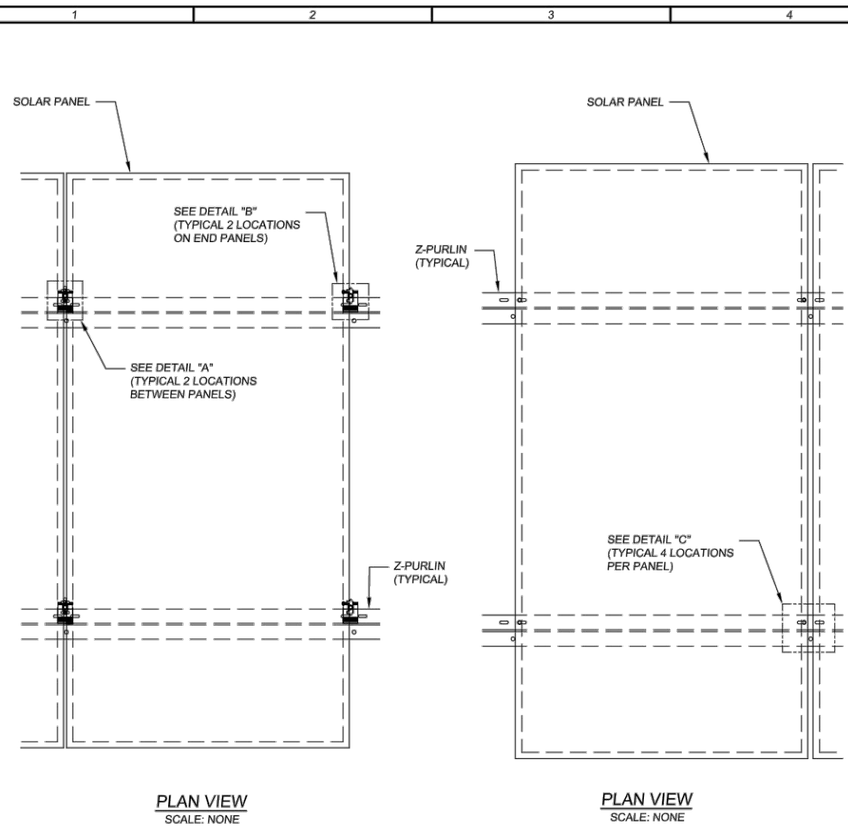
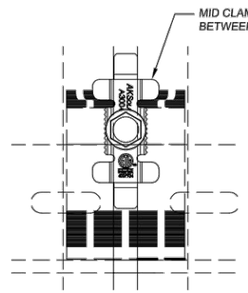


PLAN VIEW
SCALE: NONE

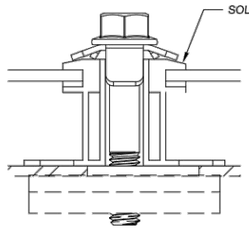
SOLAR PANEL TO PURLIN CLAMP CONNECTION DETAIL
SCALE: NONE

PLAN VIEW
SCALE: NONE

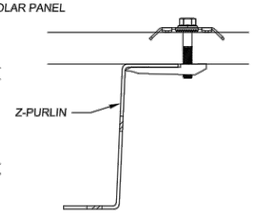
SOLAR PANEL TO PURLIN DIRECT TIE CONNECTION DETAIL
SCALE: NONE



PLAN VIEW
SCALE: NONE

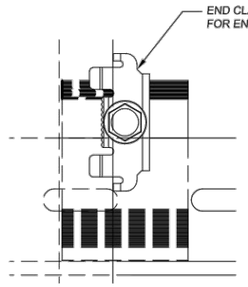


ELEVATION VIEW
SCALE: NONE

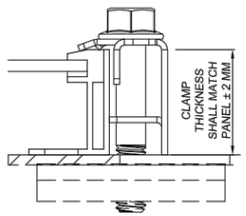


SECTION VIEW
SCALE: NONE

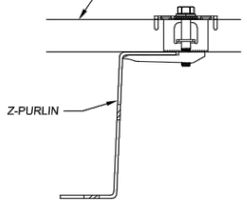
DETAIL "A"
SCALE: NONE



PLAN VIEW
SCALE: NONE

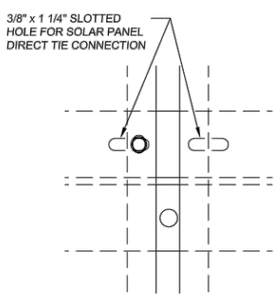


ELEVATION VIEW
SCALE: NONE

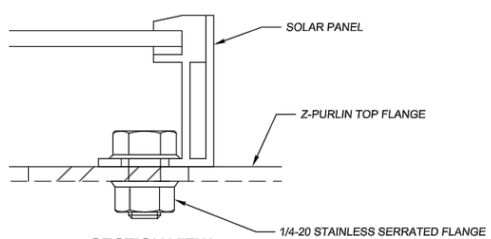


SECTION VIEW
SCALE: NONE

DETAIL "B"
SCALE: NONE



PLAN VIEW
SCALE: NONE



SECTION VIEW
SCALE: NONE

DETAIL "C"
SCALE: NONE

NOTES
1. SEE SHEET C1 FOR STANDARD RACKING CONNECTION DETAILS
2. SEE SHEET C3 FOR ADDITIONAL DETAILS AND CONNECTION SPECIFICATIONS AND NOTES

ELECTRONIC FILE LOCATION: D:\SCE\eng\AutoCad Master Files\Dunlap

PLOT DATE/TIME: 6/7/2024 11:41 AM FILE NAME: Connection Details - DMS.dwg

GENERAL

PROJECT INFORMATION:

STANDARD PANEL CONNECTION DETAILS

SHEET No.	REV
C2	0

PROJECT No.	RELEASE DATE
GENERAL	06/05/24

DRAWN BY:	APPR	RELEASE DATE
DMS	INT	06/05/24

SCALE	DATE
VARIES	

NO	DESCRIPTION	BY	DATE
0	ISSUED FOR CONSTRUCTION	DMS	06/05/24

REVISIONS

UMSTEAD ELECTRIC

MODULES / INVERTER(S) /OPTIMIZERS
(144)HYUNDAI SOLAR HIS-S400YH(BK) 400W
(2)SOL-ARK C&I HYBIRD 30K-3P-208V
(36)DEKA DD5300 HIGH VOLTAGE
DURATION 5.3 BATTERIES

SYSTEM SIZE:
57.600 KW DC (STC)
52.430 KW DC (PTC)
50.857 KW AC (CEC)

PROJECT: PHONE# 831 214 3497

CARMELITE MONASTERY
27601 CA-1
CARMEL, CA 93923
OCCUPANCY TYPE: A GROUP:A-3
APN# 243-101-002-000
36.523111349, -121.9228852910

UMSTEAD ELECTRIC
602 S 1ST ST.
KING CITY, CA 93930
PHONE: 831 214 3497

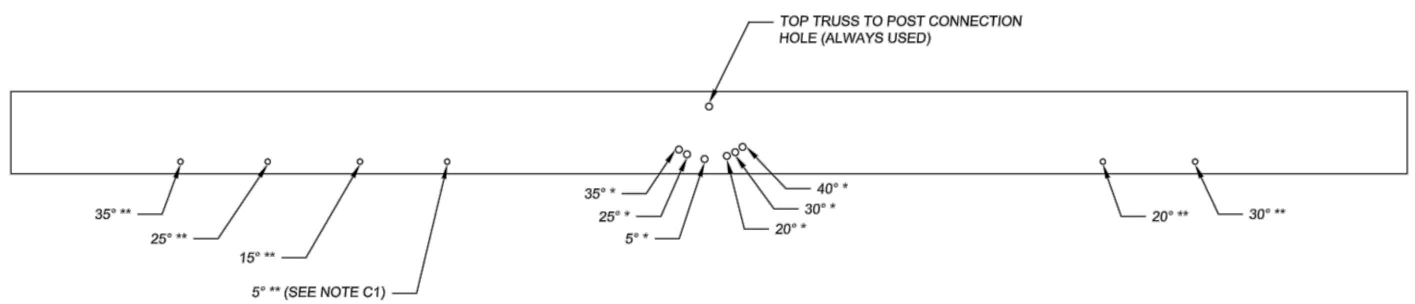
CONTRACTOR: TED UMSTEAD

STATE LICENSE # 778831

LICENSE CLASS C-10

EXPIRATION DATE 05/31/2026

S9



TRUSS MEMBER HOLE IDENTIFICATION (VIEWED FROM FLAT SIDE)

SCALE: NONE

NOTE C1: 5° STRUT HOLE SHALL BE USED TO CONNECT JACK TO TRUSS FOR SEASON ADJUSTABLE SYSTEMS

HIDDEN LINES NOT SHOWN FOR CLARITY

* BOTTOM BOLT HOLE FOR FIXED TILT SYSTEMS (ANGLE AS SPECIFIED)

** TRUSS TO STRUT CONNECTION HOLE

NOTES

1. SINCLAIR DESIGNS & ENGINEERING IS NOT RESPONSIBLE FOR SOLAR PANEL DESIGN OR INSTALLATION
2. RACKING SYSTEM AND COMPONENTS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION GUIDE AND SPECIFICATIONS
3. POSTS SHALL BE INSTALLED WITH FLAT FACE TO THE EAST FOR EVEN ANGLES (20°, 30°, & 40°) AND WITH FLAT FACE TO THE WEST FOR ODD ANGLES (5°, 15°, 25°, & 35°) AND SEASON ADJUSTABLE SYSTEMS
4. UPPER & LOWER HOLES IN POSTS MAY BE USED TO LEVEL TRUSSES AND PURLINS PRIOR TO PANEL INSTALLATION
5. EXISTING GRADE SHALL BE NOMINALLY FLAT FROM ONE POST TO THE NEXT IN ANY ARRAY WITH NO MORE THAN 5° SLOPE. ENGINEER SHALL BE CONSULTED IF SLOPE IS GREATER THAN 5°
6. DAMAGED COMPONENTS SHALL BE REJECTED AND REPLACED

RACKING MEMBERS

1. RACKING MEMBERS ARE FABRICATED FROM COLD FORMED ASTM A653 STEEL
2. RACKING MEMBERS ARE 50 KSI MINIMUM YIELD STRENGTH
3. RACKING 5/8" Ø BOLTS ARE GRADE 8 WITH SERRATED FLANGES
4. RACKING 1/2" Ø BOLTS AND NUTS AND 5/8" Ø NUTS ARE GRADE 5 WITH SERRATED FLANGES
5. RACKING MEMBERS ARE FABRICATED AND GALVANIZED PER ASTM A123
6. RACKING CONNECTION HOLES ARE 1/16" LARGER THAN BOLTS
7. DIRECT TIE 1/4-20 BOLTS AND NUTS ARE 18-8 STAINLESS STEEL WITH SERRATED FLANGES

TORQUE SPECIFICATIONS

1. END AND MID CLAMP KITS - 10 FT-LBS (OVER-TORQUE OF CLAMPS COULD RESULT IN PANEL DAMAGE)
2. 1/2-13 x 1 1/2" GRADE 5 BOLT - 57 FT-LBS
3. 5/8-11 x 1 3/4" GRADE 8 BOLT - 112 FT-LBS
4. 1/4-20 x 3/4" STAINLESS BOLT - 5.3 FT-LBS

PROJECT INFORMATION: GENERAL

TITLE: STANDARD CONNECTION DETAILS & NOTES

SCALE	DRAWN BY	APPR	RELEASE DATE	PROJECT No.	SHEET No.	REV
VARIES	DMS	INT	06/05/24	GENERAL	C3	0

REVISIONS

NO	DESCRIPTION	DATE	BY
0	ISSUED FOR CONSTRUCTION	06/05/24	DMS

ELECTRONIC FILE LOCATION: D:\SDE\Eng\AutoCad Master Files\Donley

PLOT DATE/TIME: 6/7/2024 8:10 AM FILE NAME: Connection Details - DMS.dwg

UMSTEAD ELECTRIC

MODULES / INVERTER(S) /OPTIMIZERS
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(36)DEKA DD5300 HIGH VOLTAGE DURATION 5.3 BATTERIES

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57.600 KW DC (STC)
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50.857 KW AC (CEC)

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778831	C-10	05/31/2026

S10

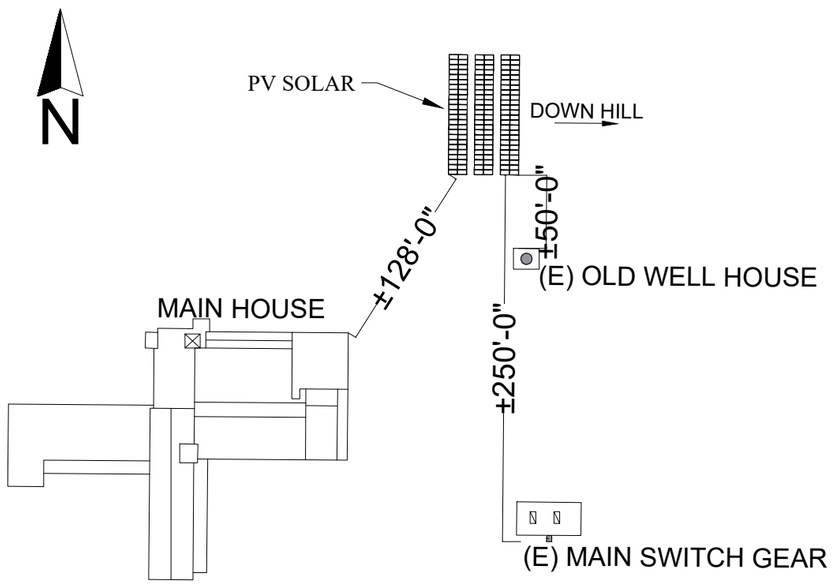
DISCLAIMER: If any Errors, Discrepancies or Omissions appear in these drawings, specifications or other contract documents; The Owner or General Contractor shall notify the Designer, in writing, of such error or omission. In the event that the Owner or General Contractor falls to give such notice, before construction and/or fabrication of the work, the Owner or General Contractor will be held responsible to the result of any errors, discrepancies or omissions and the cost of rectifying them.

NOTES
1. ARTICLES 690 AND 705 MARKINGS SHOWN HEREON
2. ALL MARKINGS SHALL CONSIST OF THE FOLLOWING:
A. UV RESISTANT SIGN MATERIAL WITH ENGRAVED OR MACHINE PRINTED LETTERS OR ELECTRO-PLATING
B. RED BACKGROUND COLOR WITH WHITE TEXT AND LINE WORK
C. ARIAL FONT
3. ALL SIGNS SHALL BE SIZED APPROPRIATELY AND PLACED IN THE LOCATIONS SPECIFIED.
4. SIGNS SHALL BE ATTACHED TO THE SERVICE EQUIPMENT USING PERMANENT ADHESIVE, POP-RIVETS, OR SCREWS

MIN.6"x6" PLACARD TO GO ON MAIN SERVICE PANEL

CAUTION

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN



27601 CA-1

PLAQUE SHALL BE ATTACHED TO THE SERVICE EQUIPMENT WITH

WARNING
INVERTER OUTPUT CONNECTION DO NOT RELOCATE THIS OVER CURRENT DEVICE

CAUTION: SOLAR ELECTRIC SYSTEM CONNECTED

CEC690.15,CEC690.13(B)
BLACK TEXT WITH
YELLOW BACKGROUND

WARNING:
PHOTOVOLTAIC POWER SOURCE

CEC690.13,G3&CEC690.13.G.4
TO BE PLACED AT LEAST EVERY
10FT WHITE LETTERS WHITE
RED BACKGROUND.

SOLAR DISCONNECT

CEC690.13,(B)
WHITE LETTERS WHITE
RED BACKGROUND.

PHOTOVOLTAIC SYSTEM AC DISCONNECT
RATED AC OPERATING CURRENT L.S.T. AMPS
AC NOMINAL OPERATING VOLTAGE 240 VOLTS

CEC 690.54
WHITE LETTERS WITH RED BACKGROUND

⚠ WARNING
ELECTRICAL SHOCK HAZARD
TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT

CEC690.17(E)
BLACK OUTLINE WITH BLACK TEXT /
WARNING IS IN BLACK TEXT
AND ORANGE BACKGROUND

⚠ WARNING
ELECTRICAL SHOCK HAZARD
A GROUNDED FAULT IS INDICATED, NORMALLY GROUNDED CONDUCTORS MAY BE UNGROUNDED AND ENERGIZED

CEC690.35(F)
BLACK OUTLINE WITH BLACK TEXT /
WARNING IS IN BLACK TEXT AND
ORANGE BACKGROUND

⚠ WARNING
ELECTRICAL SHOCK HAZARD
THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED

CEC690.35(F)
BLACK OUTLINE WITH BLACK TEXT /
WARNING IS IN BLACK TEXT AND
ORANGE BACKGROUND

UMSTEAD ELECTRIC

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(144)HYUNDAI SOLAR HIS-S400YH(BK) 400W
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B11

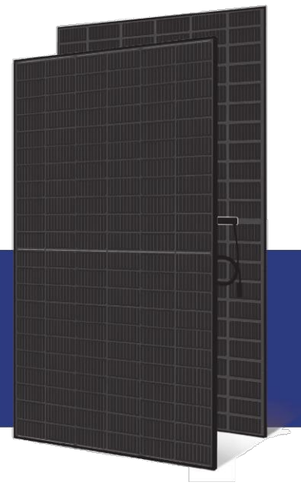
HD HYUNDAI SOLAR MODULE

25 YR WARRANTY Product & Performance

YH SERIES

Dual Black Max

HiS-S400YH(BK) HiS-S405YH(BK) HiS-S410YH(BK)



Bifacial Cells 132

More Power Generation In Low Light

All black Module For Sleek Design (Black Meshed T-Backsheet)

HYUNDAI CELL — Hyundai Cell

Maximized Power Generation

Increased total power output through capturing light from both the front and back of Bifacial solar modules. Back side power gain up to 25% of the front output depending on PV system design.

Half-Cut & Multi-Wire Technology

9 Wires

Improved current flow with half-cut technology and 9 thin wiring technology allows high module efficiency of up to 20.5%. It also reduces power generation loss due to micro-cracks.

Anti-LID / PID

Both LID(Light Induced Degradation) and PID(Potential Induced Degradation) are significantly reduced to ensure higher actual yield during lifetime.

Mechanical Strength

Tempered glass and reinforced frame design withstand rigorous weather conditions such as heavy snow(5,400Pa) and strong wind(5,400Pa).

UL / VDE Test Labs

HD Hyundai's R&D center is an accredited test laboratory of both UL and VDE.

Reliable Warranty

HYUNDAI

Global brand with powerful financial strength provide reliable 25-year warranty.

Hyundai's Warranty Provisions

25 YEARS
- 25-Year Product Warranty
  - Materials and workmanship

25 YEARS
- 25-Year Performance Warranty
  - Initial year : 98.0%
  - Linear warranty after second year: with 0.54%p annual degradation, 85.0% is guaranteed up to 25 years

About HD Hyundai Energy Solutions

Established in 1972, HD Hyundai Group is one of the most trusted names in the heavy industries sector and is a Fortune 500 company. As a global leader and innovator, HD Hyundai is committed to building a future growth engine by developing and investing heavily in the field of renewable energy.

As a core energy business entity of HD, HD Hyundai Energy Solutions has strong pride in providing high-quality PV products to more than 3,000 customers worldwide.

PREMIUM — MADE IN SOUTH KOREA — Cell & Module

Certification

US LISTED — UL61730 certified by UL, Type 1(for Fire Class A)

www.hd-hyundaies.us

HD HYUNDAI ENERGY SOLUTIONS

Electrical Characteristics

		Mono-Crystalline Type(HiS-S____YH(BK))		
		400	405	410
Nominal Output (Pmpp)	W	400	405	410
Open Circuit Voltage (Voc)	V	45.3	45.6	45.9
Short Circuit Current (Isc)	A	11.25	11.33	11.40
Voltage at Pmax (Vmpp)	V	37.7	37.9	38.1
Current at Pmax (Impp)	A	10.61	10.69	10.76
Module Efficiency	%	20.0	20.3	20.5
Cell Type	-	Mono crystalline, 9busbar		
Maximum System Voltage	V	1,500		
Temperature Coefficient of Pmax	%/K	-0.347		
Temperature Coefficient of Voc	%/K	-0.268		
Temperature Coefficient of Isc	%/K	+0.032		

*All data at STC / Measurement tolerances Pmpp ±3%; Isc ; Voc ±3%. Above data may be changed without prior notice.

Additional Power Gain from rear side		400	405	410
5%	W	415	425	431
15%	W	454	466	472
25%	W	494	506	513

Mechanical Characteristics

Dimensions	75.7 in (L) x 40.9 in (W) x 1.3 in (H) (1,924mm x 1,038mm x 32mm)
Weight	Approx. 46.5 lbs (21.1 kg)
Solar Cells	132 half cut bifacial cells (2 parallel x 66 half cells in series)
Output Cables	Cable : 47.2 in (1,200mm) / 4mm² Connector : MC4 genuine connector
Junction Box	IP68, weatherproof, IEC certified (UL listed)
Bypass Diodes	3 bypass diodes to prevent power decrease by partial shade
Construction	Front : 3.2mm, High Transmission, AR Coated Tempered Glass Encapsulant : EVA I Back Sheet : Black Meshed Transparent Backsheet
Frame	Anodized aluminum alloy type 6063

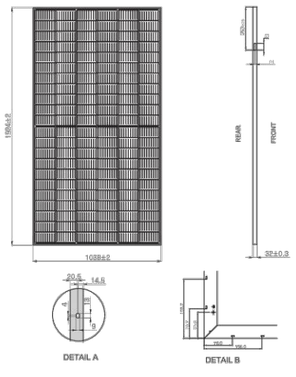
Installation Safety Guide

- Only qualified personnel should install or perform maintenance.
- Be aware of dangerous high DC voltage.
- Do not damage or scratch the rear surface of the module.
- Do not handle or install modules when they are wet.

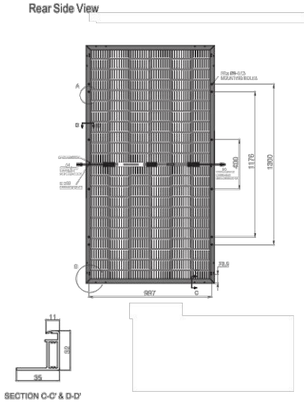
Nominal Operating Cell Temperature	113.9°F ± 3.6°F (45.5°C ± 2°C)
Operating Temperature	-40°F ~ + 185°F (-40°C ~ + 85°C)
Maximum System Voltage	DC 1,500V
Maximum Reverse Current	20A
Maximum Test Load	Front 5,400 Pa (113 psf) Rear 5,400 Pa (113 psf)

Module Diagram (unit : mm)

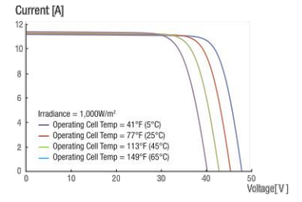
Front Side View

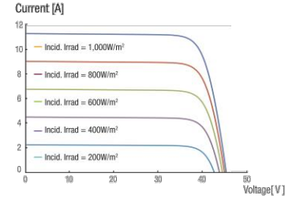


Rear Side View



I-V Curves





Printed on FSC certified eco-friendly paper.

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UMSTEAD ELECTRIC

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B12

DATASHEET

30K-208V

C&I Hybrid Inverter

Inverter Model Name:	30K-3P-208V
Sol-Ark Product SKU:	30K-3P-208V
Input Data (PV)	
Max. Allowed PV Power (STC)	39,000W
MPPT Voltage Range	150-500V
Startup Voltage	180V
Max. Input Voltage [1]	550V
Max. operating input current per MPPT	36A
Max. short circuit current per MPPT	55A
No. of MPP Trackers	4
No. of PV Strings per MPPT	2
Max. AC Coupled Input Power	30,000W
Output Data (AC)	
Nominal AC Voltage (3Φ)	120/208V
Grid Frequency	50 / 60Hz
Real Power, max continuous (3Φ)	30,000W
Max. Output Current	83.4A
Peak Apparent Power (10s, off-grid, 3Φ)	45,000VA
Max. Grid Passthrough Current (10min)	200A
Continuous Grid Passthrough Current	180A
Power Factor Output Range	+/- 0.8 adjustable
Backup Transfer Time	5ms (adjustable)
CEC Efficiency	96.5%
Max Efficiency	97.5%
Design (DC to AC)	Transformerless DC
Stackable	Up to 10 in parallel
Battery Input Data (DC)	
Battery Chemistry	Lithium iron phosphate
No. of Battery Inputs	2
Battery Input Terminal Rating	50A
Nominal DC Voltage	≥300V
Operating Voltage Range	160 - 500V
Battery Capacity Range	50 – 9900Ah
Max. Battery Charge / Discharge Current	100A (50A per input)
Charge Controller Type	3-Stage with Equalization
Grid to Battery Charging Efficiency	96.0%
Automatic Generator Start (AGS)	2 Wire Start - Integrated
BMS Communication [2]	CANBus & RS485
General Data	
Dimensions (H x W x D)	894 x 528 x 295 mm (35.2 x 20.8 x 11.6 in)
Weight	80 Kg / 176 lb.
Enclosure	IP65 / NEMA 3R
Ambient Temperature	-40 – 60°C, >45°C Derating
Noise	< 30 dB @ 25°C (77°F)
Idle Consumption - No Load	60W
Communication and Monitoring	Wi-Fi & LAN Hardware Included
Warranty [3]	10 Years (15 Years)
Category	
Certifications and Listings (Grid Support Interactive Inverter)	UL 1741-2021 (UL1741SB), CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0), UL 1741 CRD-PCS, UL1699B, CEC, SGIP [4]
PV DC Disconnect Switch – NEC 240.15	Integrated
Ground Fault Detection – NEC 690.5	Integrated
PV Rapid Shutdown Control – NEC 690.12	Integrated
PV Arc Fault Detection – NEC 690.11	Integrated
PV Input Lightning Protection	Integrated
PV String Input Reverse Polarity Protection	Integrated
Surge Protection	DC Type II / AC Type III

1. See Installation Guide for more details on sizing array strings. The highest input voltage is based on the open-circuit voltage of the array at the minimum design temperature.
2. Active BMS communication is required for all lithium batteries. A list of compatible batteries can be found on our website.
3. 5-year extension is available for purchase by registered Gold level installers only.
4. Pending listing.

UMSTEAD ELECTRIC

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B13

Deka duration®

BY MK BATTERY

DUAL VOLTAGE DD5300

Lithium Energy Storage System

DD5300

SINGLE MODULE LV/HV

DD5300

BASIC PARAMETERS	DD5300 LV/HV
Cell Type	LiFePO4 Lithium Iron Phosphate (LFP)
Battery System Capacity	5.3 kWh
Single Module Nominal Voltage	52 Vdc
Application	Dual Voltage LV/HV
Modules Expandibility	HV-16 in series (up to 9 cluster in parallel with DD21002 HVBOX) LV-15 modules in parallel without DD21001 Intelligent Can Bus Combiner
Cluster Net Capacity	556.5 kWh (LV) / 763.2 kWh (HV)
Voltage Range	48.5-1000 Vdc
Net Capacity	110 Ah
Usable Capacity	100 Ah
Dimensions L x W x H (mm)	593 x 470 x 163
Weight	126.3 lb (57.3 kg)
Charge / Discharge Current	110 A / 110 A (LV)
Discharge Current Peak	200 A (5 sec)
Depth of Discharge	Up to 100%
Communication Port	RS485, CAN, 232, (Wi-Fi external device)
HV String Modules	Up to 16
Discharge Temperature	-4 ~ +131°F (-20 ~ +55°C)
Charge Temperature	+14 ~ +131°F (-10 ~ +55°C)
Shelf Temperature	+14 ~ +122°F (-10 ~ +50°C)
Humidity	5% ~ 95%
Altitude	<3000 m
Design life	15 Years (77°F / 25°C)
Expected Cycle Life @ STC	Up to 7000 @ 86°F (30°C) (Testing is 1°C @ 100% DoD with at least 80% residual capacity)
Standards	UL 1973 IEC62619 CE UN38.3
Features	Pre-Charge + Fuse LV + Fuse HV + Auto Contactor + Dual BMS + Multi BMS FW Management
	Suitable for low voltage and high voltage systems, 4 protection levels with DD21002 HV BOX for HV application, BMS with real time balancing, adaptive charge/discharge CAN logic, 3 steps adaptive charging logic, 2xDI/DO programmable, mobile app for monitoring and remote control, update, debug, data save

UMSTEAD ELECTRIC

MODULES / INVERTER(S) /OPTIMIZERS

(144)HYUNDAI SOLAR HIS-S400YH(BK) 400W

(2)SOL-ARK C&I HYBIRD 30K-3P-208V

(36)DEKA DD5300 HIGH VOLTAGE DURATION 5.3 BATTERIES

SYSTEM SIZE:

57.600 KW DC (STC)

52.430 KW DC (PTC)

50.857 KW AC (CEC)

PROJECT: PHONE# 831 214 3497

CARMELITE MONASTERY
27601 CA-1
CARMEL, CA 93923
OCCUPANCY TYPE: A GROUP:A-3
APN# 243-101-002-000
36.523111349, -121.9228852910

UMSTEAD ELECTRIC
602 S 1ST ST.
KING CITY, CA 93930
PHONE: 831 214 3497

CONTRACTOR: TED UMSTEAD

STATE LICENSE # 778831

LICENSE CLASS C-10

EXPIRATION DATE 05/31/2026

B14

57.6 Kw Solar System
with 81.92 Kwh Battery

Lot Size 548,420 sq ft
Bldg Size 13,071 sq ft

Carmelite Monastary

27601 CA-1
Carmel, CA 93923

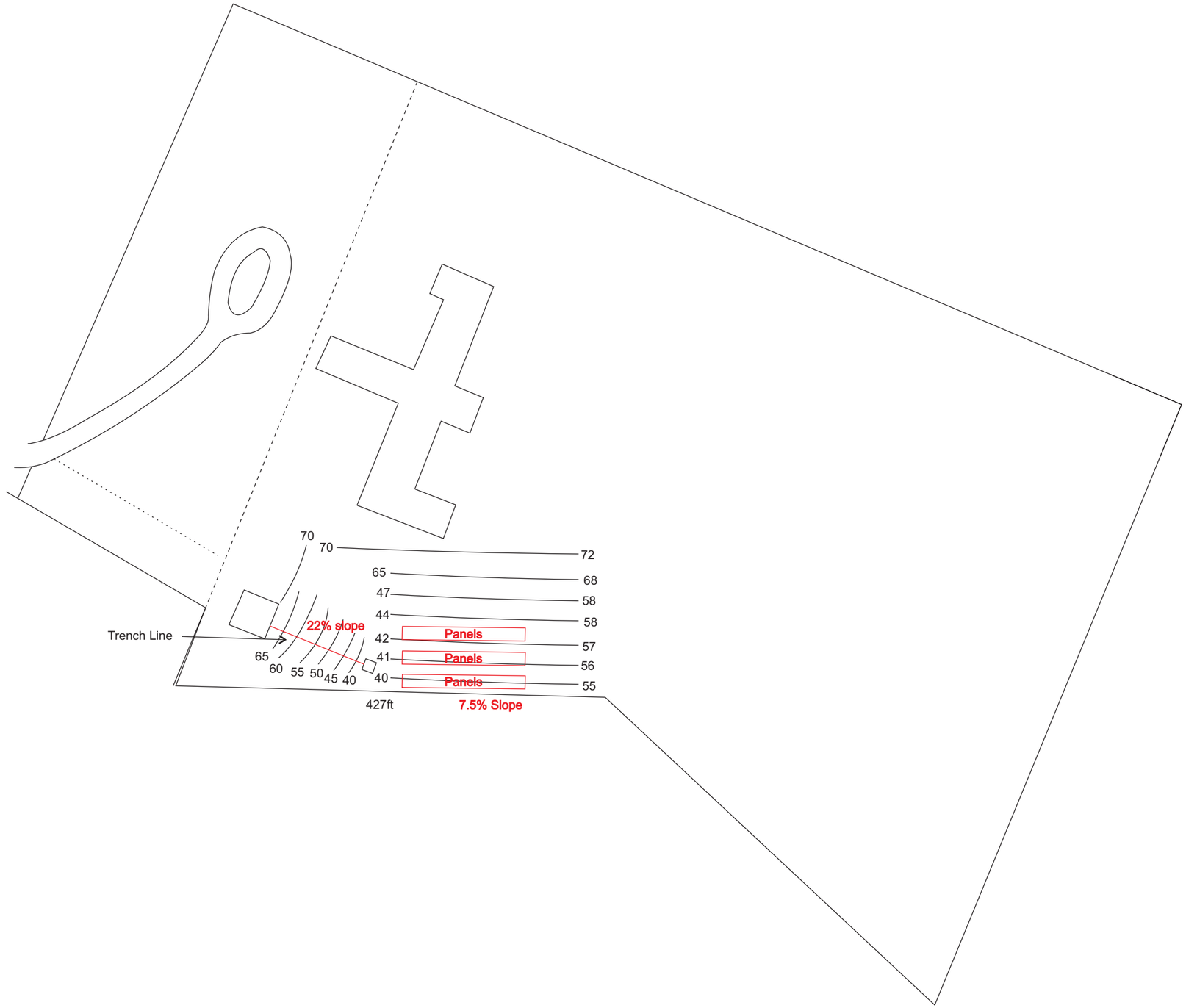
APN: 243-101-002-000

OWNER:
Carmelite Monastary
27601 CA-1
Carmel CA 93923

Design and Installed By

Umstead Electric
PO Box 2160
King City, CA 93930
(831) 385-0411

CA Lic# 778831
ted@umsteadelectric.com



57.6 Kw Solar System
with 81.92 Kwh Battery

Carmelite Monastary

27601 CA-1
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APN: 243-101-002-000

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Page 2

N

57.6 Kw Solar System
with 81.92 Kwh Battery

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