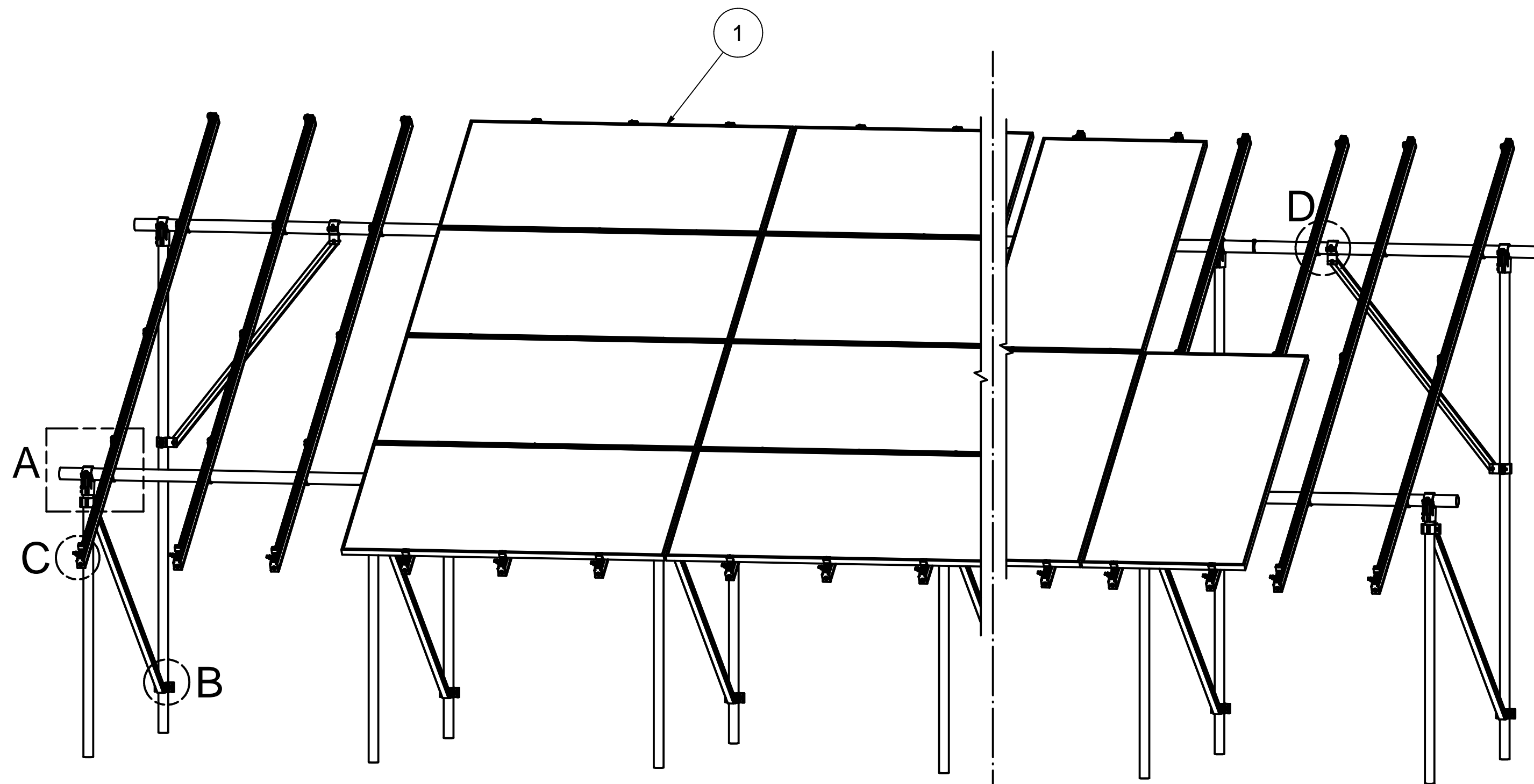


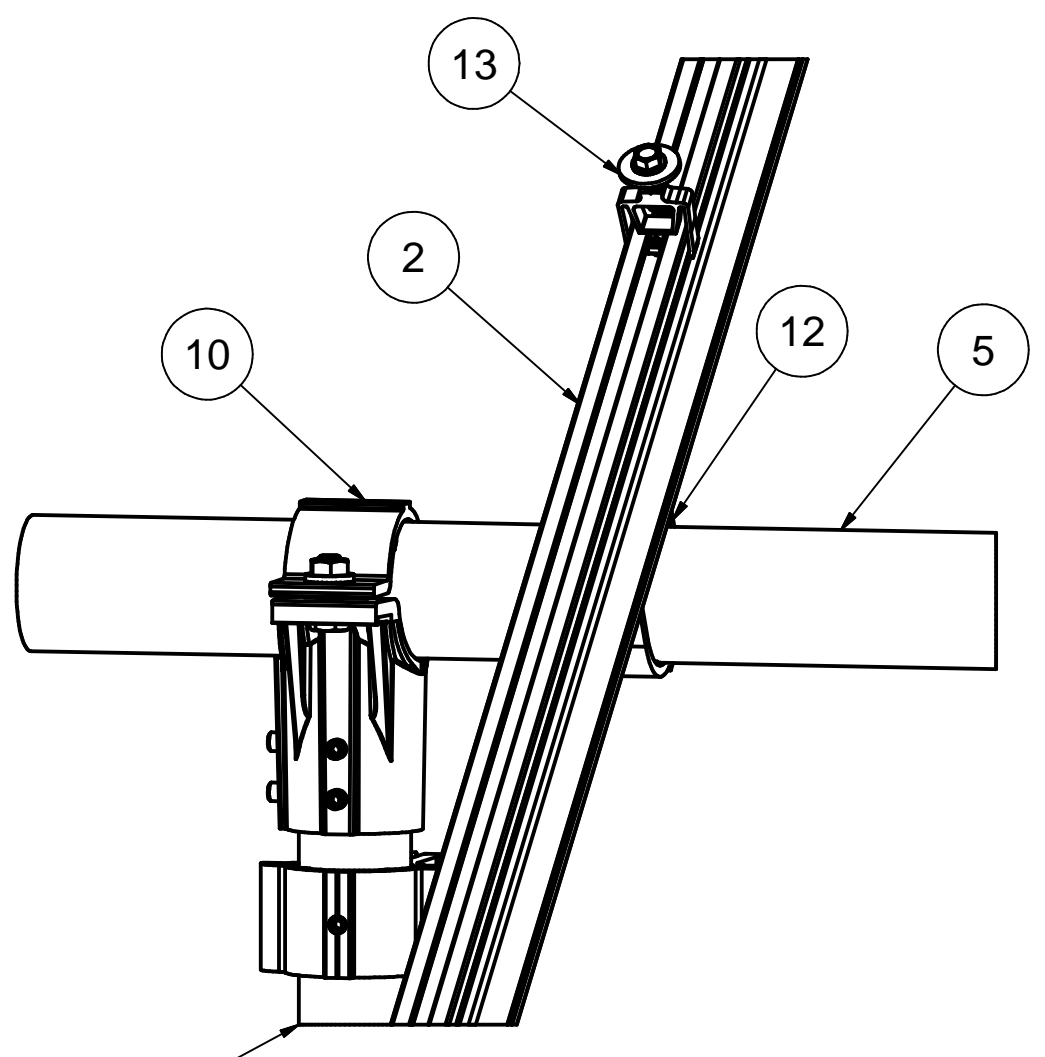
NOTES: UNLESS OTHERWISE SPECIFIED

- THIS DRAWING IS NOT FOR CONSTRUCTION UNTIL ENGINEERING HAS REVIEWED AND STAMPED THIS DOCUMENT.
- DIMENSIONS SHOWN ARE INCHES.
- THE SELF-BONDING SYSTEM AND SINGLE GROUND LUG IS FOR USE WITH PV MODULES THAT HAVE A MAXIMUM SERIES FUSE RATING OF 30A.
- MATERIALS ARE AS SPECIFIED OR EQUIVALENT:
HARDWARE: 304 STAINLESS STEEL
FABRICATED EXTRUDED PARTS: 6005-T5 ALUMINUM ALLOY
FABRICATED DIE CAST PARTS: ANSI/AA A380 ALUMINUM ALLOY
STEEL PIPE: SCHEDULE 40 GALVANIZED
ALUMINUM PIPE: SCHEDULE 10 ANODIZED
- THE MAXIMUM PERMISSIBLE LENGTH OF ANY STRUCTURE SHALL BE 200 FT. FOR SYSTEMS USING A SHARED RAIL CONFIGURATION, A THERMAL BREAK IS REQUIRED IN THE RAIL EVERY 40 FT. PER THE DRAWING DETAILS.
- 4LXN-2PXN-20-35DEG-GSM-AGM-BGM-PGM.
- PANEL DIMENSIONS ARE AS FOLLOWS:
STANDARD PANEL (SP): MAX AREA: 3444 in²
LARGE FORMAT (LF): MAX AREA: 3825 in²
PANEL FRAME HEIGHTS: 30mm TO 50mm.
- APPROVED RAIL PROFILES - STANDARD PANELS
A20288-XXX (HR300 RAIL), A20297-001 (END CAP), K10343-002 (U-CLAMP KIT);
A20145-XXX (HR350 RAIL), A20285-001 (END CAP), K10343-001 (U-CLAMP KIT);
A20444-XXX (SMR300 RAIL), C10059-BK1 (END CAP), K10343-005 (U-CLAMP KIT).
- APPROVED RAIL PROFILES - OVERSIZE PANELS
* A20288-XXX (HR300 RAIL), A20297-001 (END CAP), K10343-002 (U-CLAMP KIT);
* A20145-XXX (HR350 RAIL), A20285-001 (END CAP), K10343-001 (U-CLAMP KIT);
* A20444-XXX (SMR300 RAIL), C10059-BK1 (END CAP), K10343-005 (U-CLAMP KIT).
- K10224-XXX END CLAMP KIT OR K10299-XXX ADJ. END CLAMP KIT.
- FOUNDATION TYPES:
GSM = GROUND SCREW GROUND MOUNT
AGM = HELICAL AUGER GROUND MOUNT
PGM = POST-IN-CONCRETE GROUND MOUNT
BSM = BALLAST GROUND MOUNT

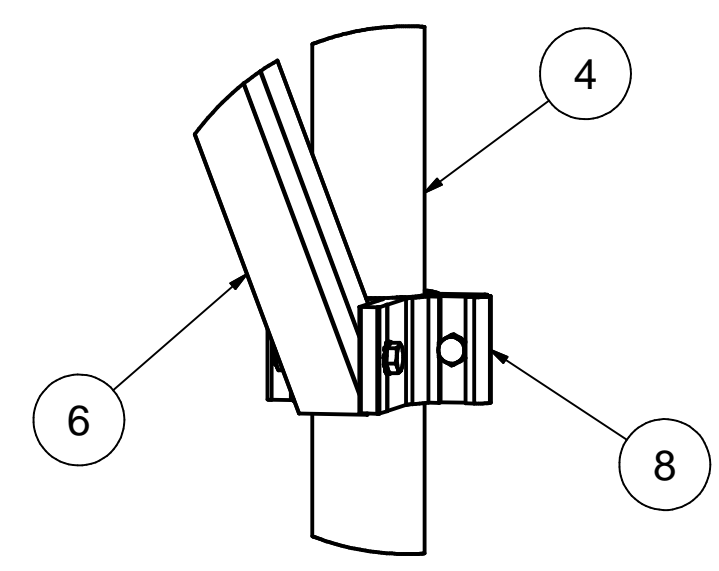


**4L
4-IN-LANDSCAPE**

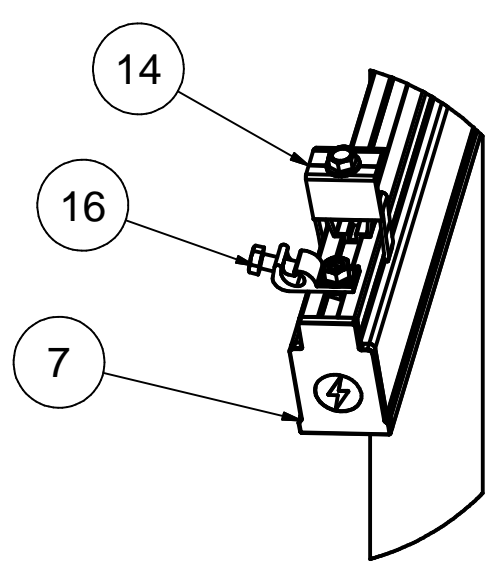
**2P
2-IN-PROTRAIT**



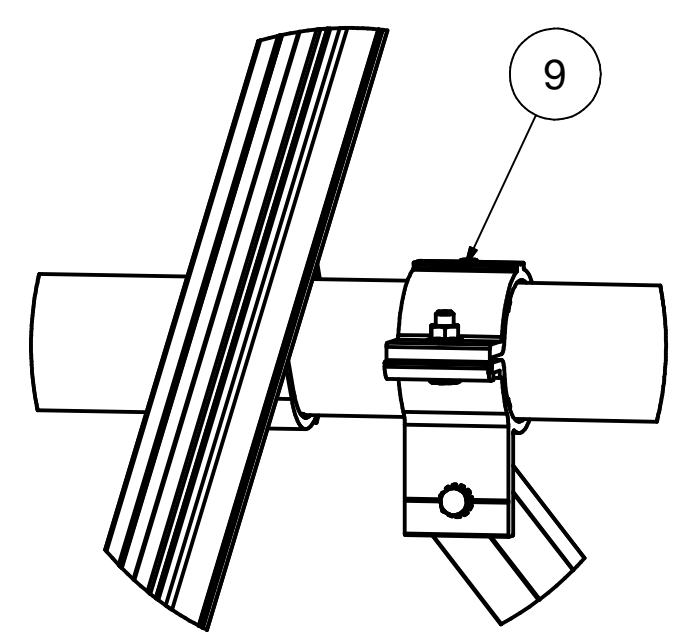
DETAIL A



DETAIL B



DETAIL C



DETAIL D

Packet A16	
Model Code	ASCE 7-22
Exposure Category	C and Lower
Wind Speed	140 mph and Lower
Ground Snow Load	70 PSF and Lower
Tilt	20-35 DEG



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06/13/2024
Firm License Number: 2202
VSE Project Number: U2716.0385.241

ITEM	PART NUMBER	DESCRIPTION	QTY
16	K10469-004	M8 HEX GROUND LUG KIT	
15	K10448-001	2.5" PIPE SPLICE KIT	
14	K10418-004	SMR POP-ON END CLAMP KIT,CLEAR	
13	K10417-004	MID CLAMP,SMR POP-ON,CLEAR	
12	K10343-005	2.5" AL PIPE U-CLAMP KIT	
11	K10342-001	2.5" PIPE SPLICE KIT	
10	K10341-002	2.5" PIPE TEE KIT	
9	K10222-001	2.5" PIPE CLAMP KIT	
8	K10219-001	2" AL PIPE CLAMP KIT	
7	C10059-BK1	SMR300 EPDM RAIL END CAP	
6	A50164-XXX	1.5" SQ. STL TUBE BRACE, L=XXX	
5	A21168-XXX	PIPE, HSS, 2.875" OD X 12 GAUGE, L=XXX	
4	A21165-XXX (REAR)	PIPE, HSS, 2.375" OD X 12 GAUGE, L=XXX	
3	A21165-XXX (FRONT)	PIPE, HSS, 2.375" OD X 12 GAUGE, L=XXX	
2	A20444-XXX	SMR300 RAIL, L=XXX	
1		PANEL	

MATERIAL: SEE BOM

Third Angle Projection:

GENERAL SPECIFICATIONS
All Dimensions in inches (millimeters)
Tolerances
FRACTIONS TO 25mm
X.XX (0.01mm) Break all sharp edges
X.X (0.01mm) (10:00) unless otherwise specified
X.X (0.01mm) (10:00) unless otherwise specified

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14800 NE 65TH STREET, VANCOUVER WA 98682

TITLE: PACKET A16

DRAWN BY: LU DATE: 03/25/2024

CHECKED BY: D DRAWING NUMBER: D

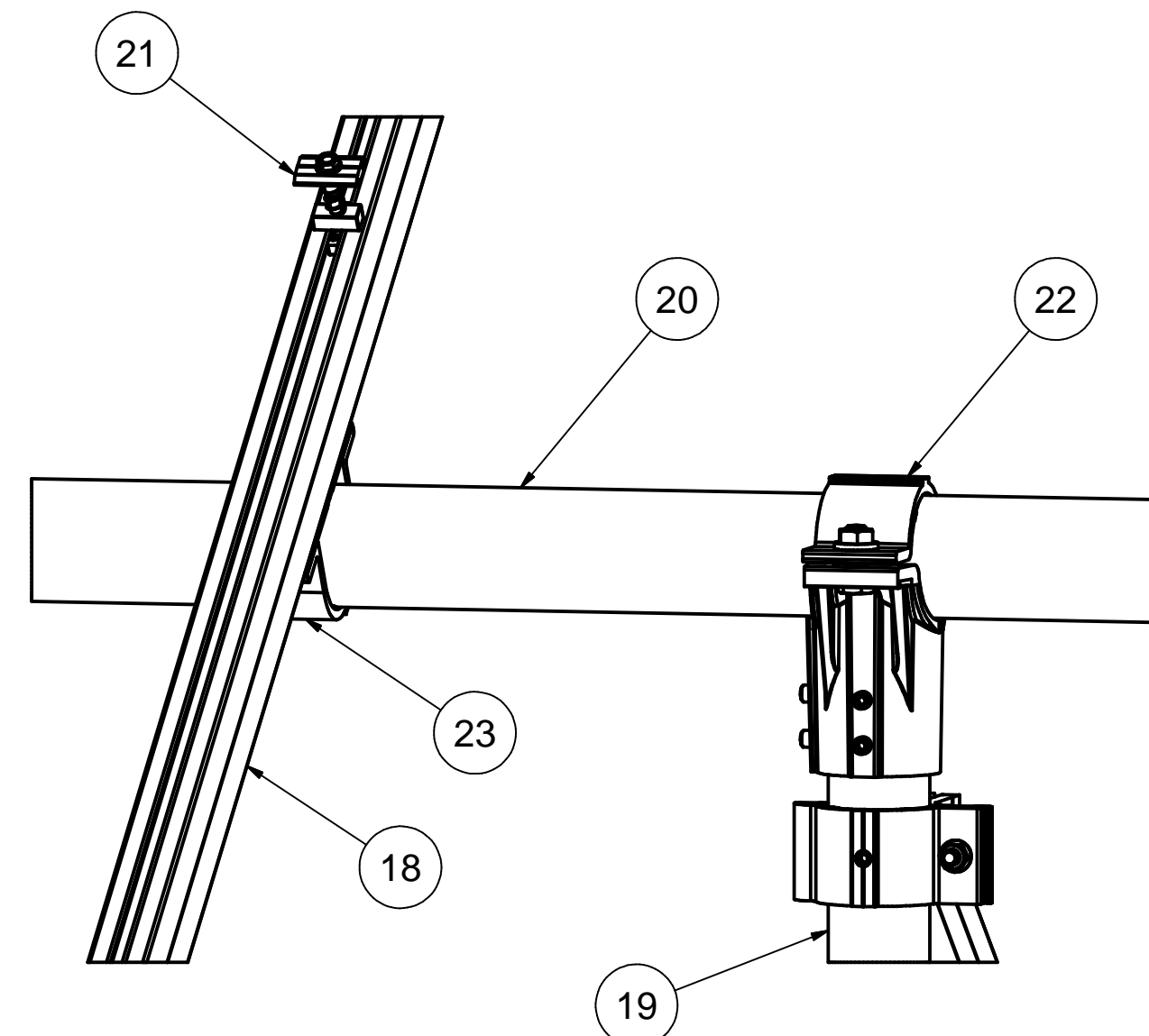
APPROVALS: SCALE: SHEET 1 of 5

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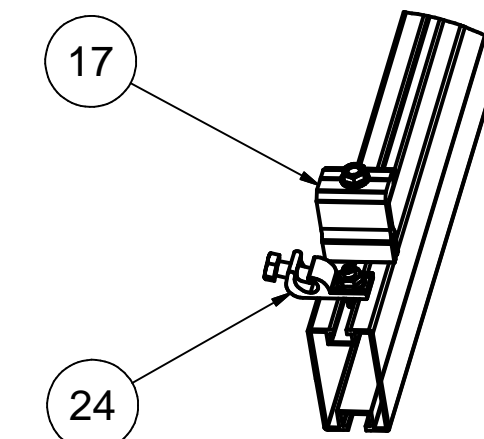
NOTES: UNLESS OTHERWISE SPECIFIED

1. APPROVED RAIL PROFILES - STANDARD PANELS
A20288-XXX (HR300 RAIL), A20297-001 (END CAP),
K10343-002 (U-CLAMP KIT);
A20145-XXX (HR350 RAIL), A20285-001 (END CAP),
K10343-001 (U-CLAMP KIT).
2. APPROVED RAIL PROFILES - OVERSIZE PANELS
* A20288-XXX (HR300 RAIL), A20297-001 (END CAP),
K10343-002 (U-CLAMP KIT);
* A20145-XXX (HR350 RAIL), A20285-001 (END CAP),
K10343-001 (U-CLAMP KIT).
3. K10224-XXX END CLAMP KIT OR K10299-XXX ADJ.
END CLAMP KIT.

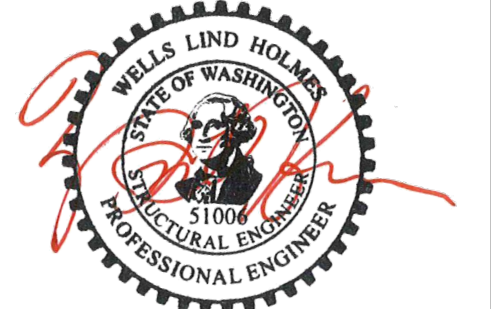
**ALTERNATE(ALT) DETAILS
HR300, HR350 RAIL PROFILES**



DETAIL A-ALT



DETAIL C-ALT



06/13/2024

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VSE Project Number: U2716.0385.241

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ITEM	PART NUMBER	DESCRIPTION	QTY
24	K10469-003	HR GROUNDING LUG KIT	
23	K10343-XXX	2.5" AL PIPE U-CLAMP KIT	
22	K10341-002	2.5" PIPE TEE KIT	
21	K10180-001	GROUNDING MID-CLAMP KIT WITH T COLLAR BOLT AND GROUNDING BASE	
20	A21168-XXX	PIPE, HSS, 2.875" OD X 12 GAUGE, L=XXX	
19	A21165-XXX	PIPE, HSS, 2.375" OD X 12 GAUGE, L=XXX	
18		HELIO RAIL. VARIES PER NOTE 1 & 2	
17		END CLAMP KIT. VARIES PER NOTE 3	

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TITLE
PACKET A16

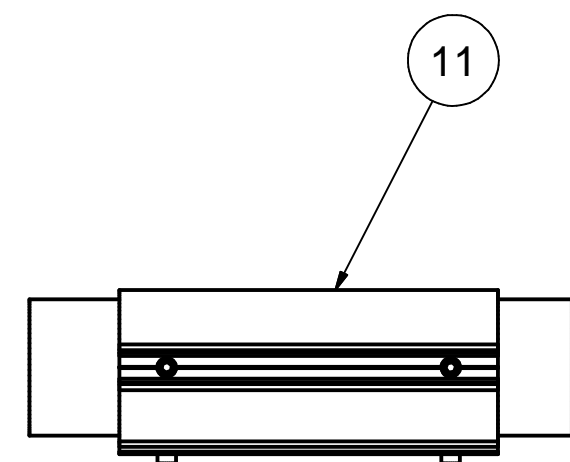
DRAWING NUMBER

D

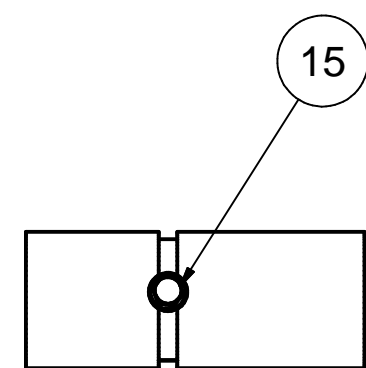
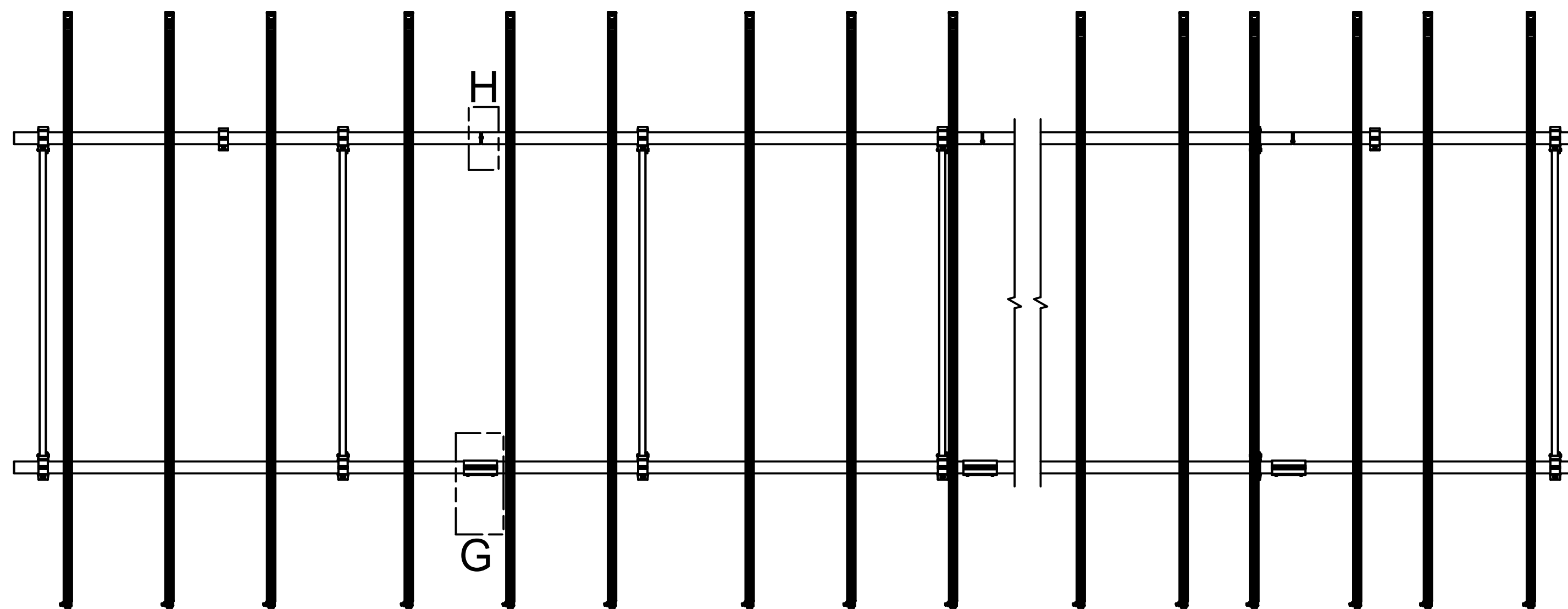
SCALE: SHEET 2 of 5 REV

NOTES:

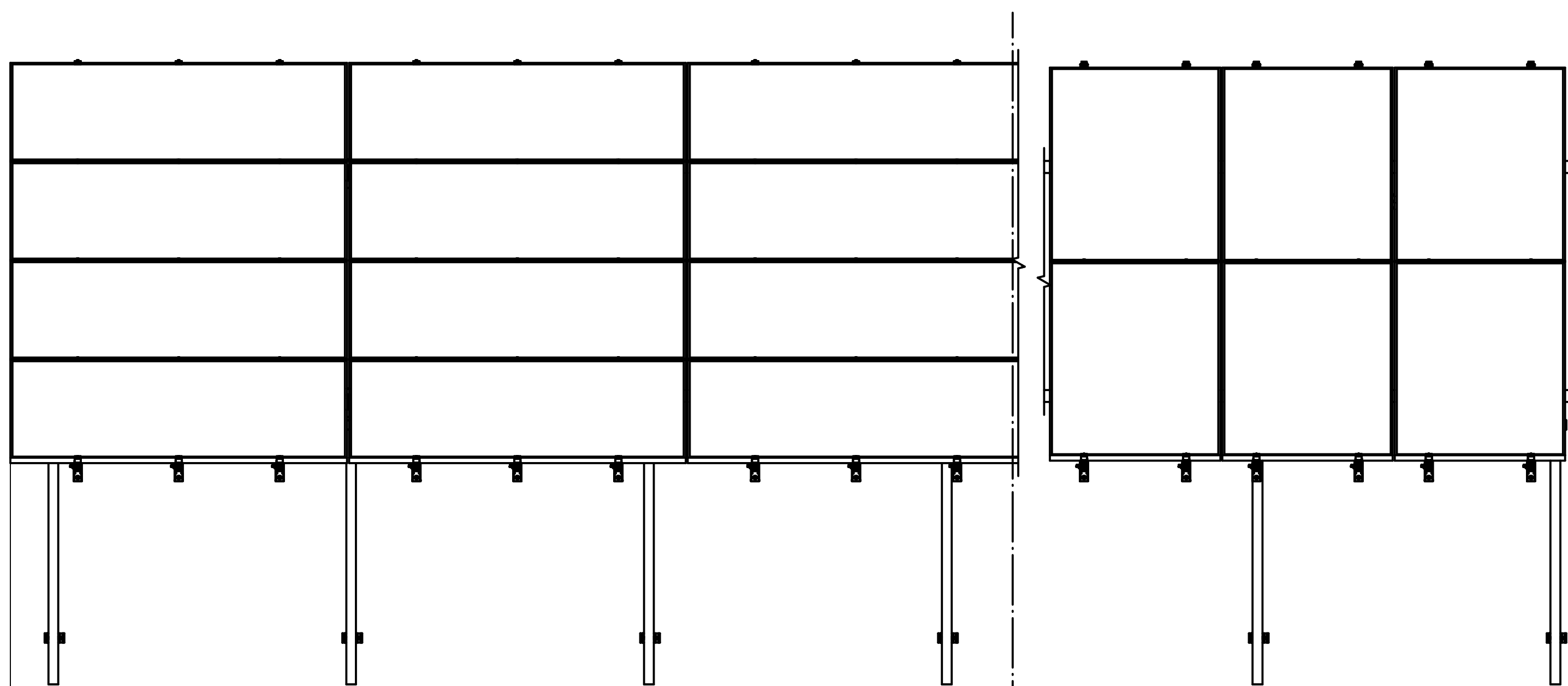
- 1. DIMENSIONS LABELED AS MAX ARE MAXIMUM ALLOWABLE AND MAY RESULT IN END POSTS BEING OUTSIDE ARRAY EDGES. MAXIMUM DIMENSIONS MAY BE REDUCED IF DESIRED.
- 2. SEE NOTE 7 OF COVER PAGE FOR PANEL SIZES.



DETAIL G



DETAIL H
(ALTERNATE)



SP²: 20 MAX
OP²: 20 MAX

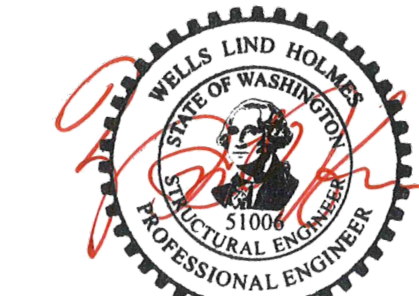
SP²: 60 MAX¹
OP²: 60 MAX¹

4L
4-IN-LANDSCAPE

2P
2-IN-PROTRAIT



651 W. GALENA PARK BLVD. STE. 101 PHOENIX 18011 980-1775
ORANGE, UTAH 84052 WWW.VECTORENG.COM



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VSE Project Number: U2716.0385.241

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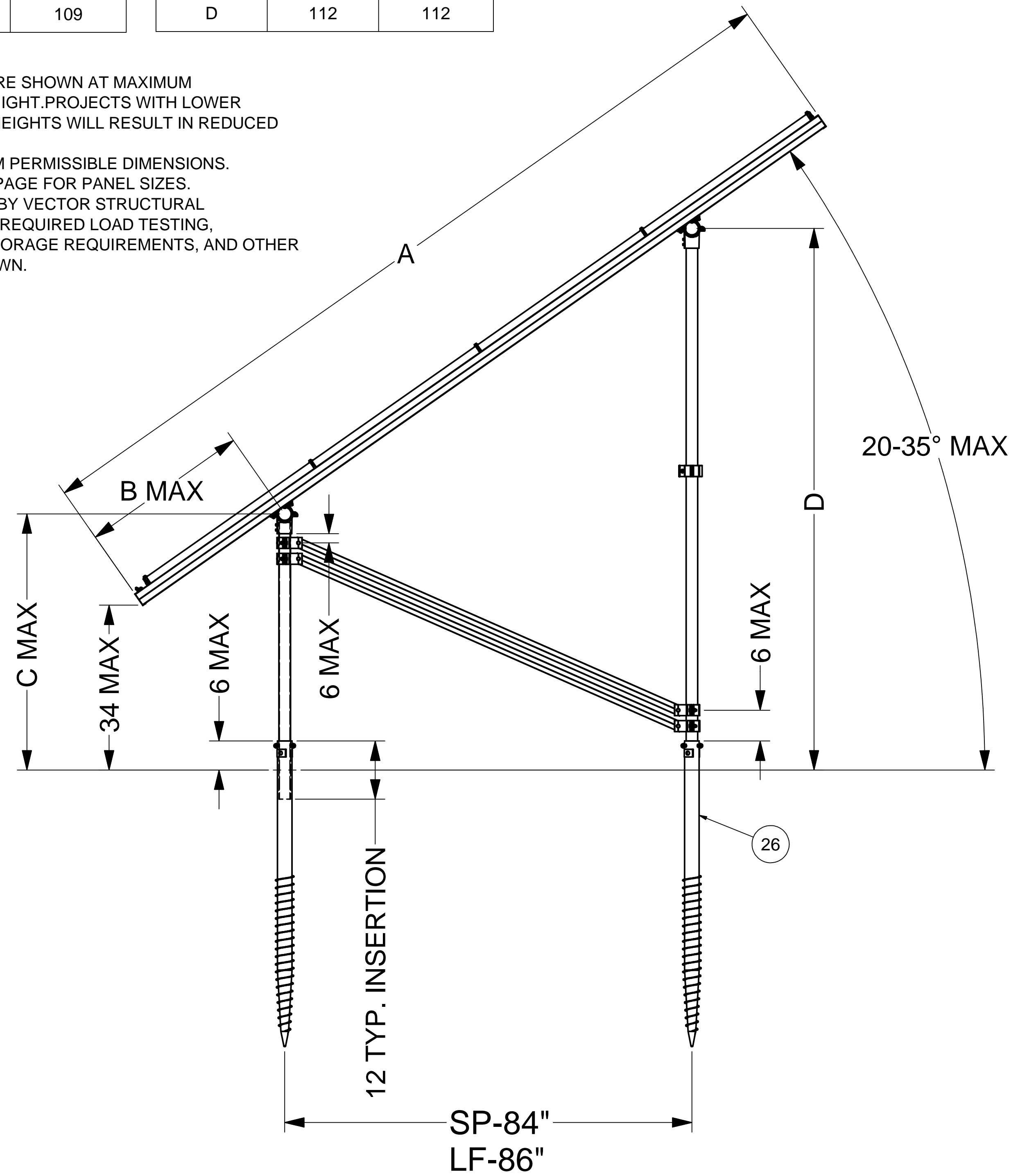
TITLE	PACKET A16		
D	DRAWING NUMBER		
SCALE:	SHEET 3 of 5	REV	

DIMENSIONS - STANDARD PANEL		
ITEM	4L	2P
A	168	166
B	38	37
C	52	51
D	110	109

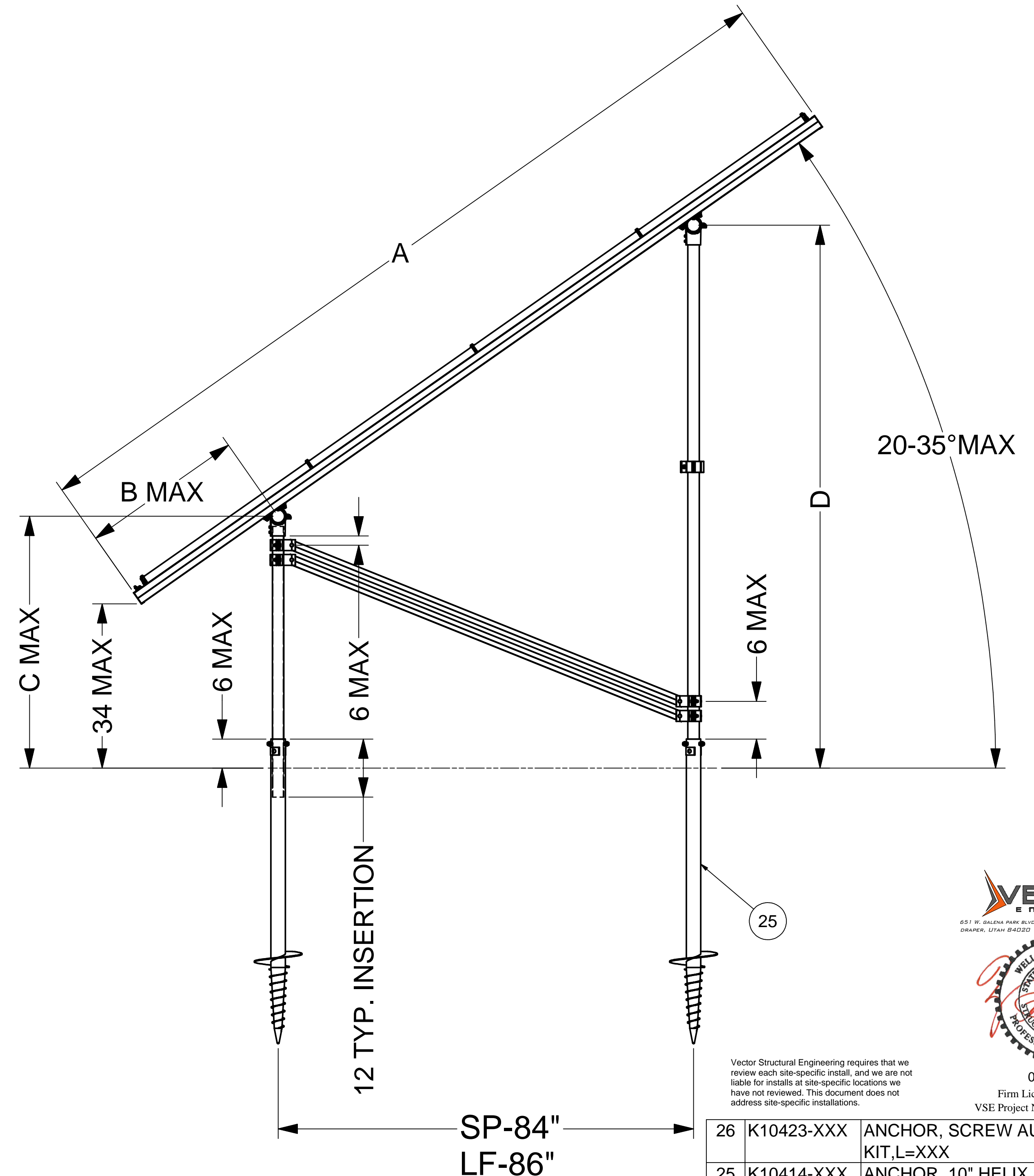
DIMENSIONS - LARGE FORMAT PANEL		
ITEM	4L	2P
A	172	172
B	42	42
C	52	52
D	112	112

NOTES

1. DIMENSIONS IN TABLE ARE SHOWN AT MAXIMUM TILT & LEADING EDGE HEIGHT. PROJECTS WITH LOWER TILTS & LEADING EDGE HEIGHTS WILL RESULT IN REDUCED DIMENSIONS.
2. MAX DENOTES MAXIMUM PERMISSIBLE DIMENSIONS.
3. SEE NOTE 7 OF COVER PAGE FOR PANEL SIZES.
4. SEE LETTER PROVIDED BY VECTOR STRUCTURAL ENGINEERING, LLC FOR REQUIRED LOAD TESTING, FOUNDATION AND ANCHORAGE REQUIREMENTS, AND OTHER INFORMATION NOT SHOWN.



GROUND SCREW GROUND MOUNT (GSM)



AUGER GROUND MOUNT (AGM)

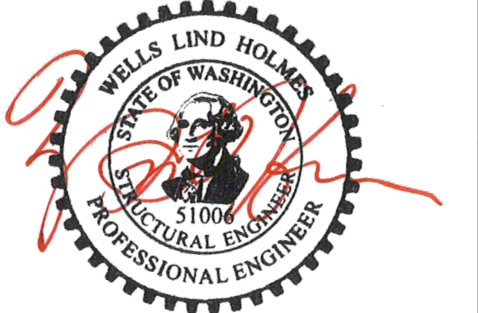
ITEM	PART NUMBER	DESCRIPTION	QTY
26	K10423-XXX	ANCHOR, SCREW AUGER KIT, L=XXX	
25	K10414-XXX	ANCHOR, 10" HELIX SCREW AUGER, L=XXX	

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TITLE: PACKET A16

DRAWING NUMBER: D

SCALE: SHEET 4 of 5 REV



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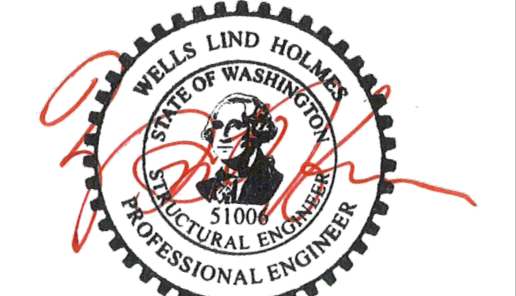
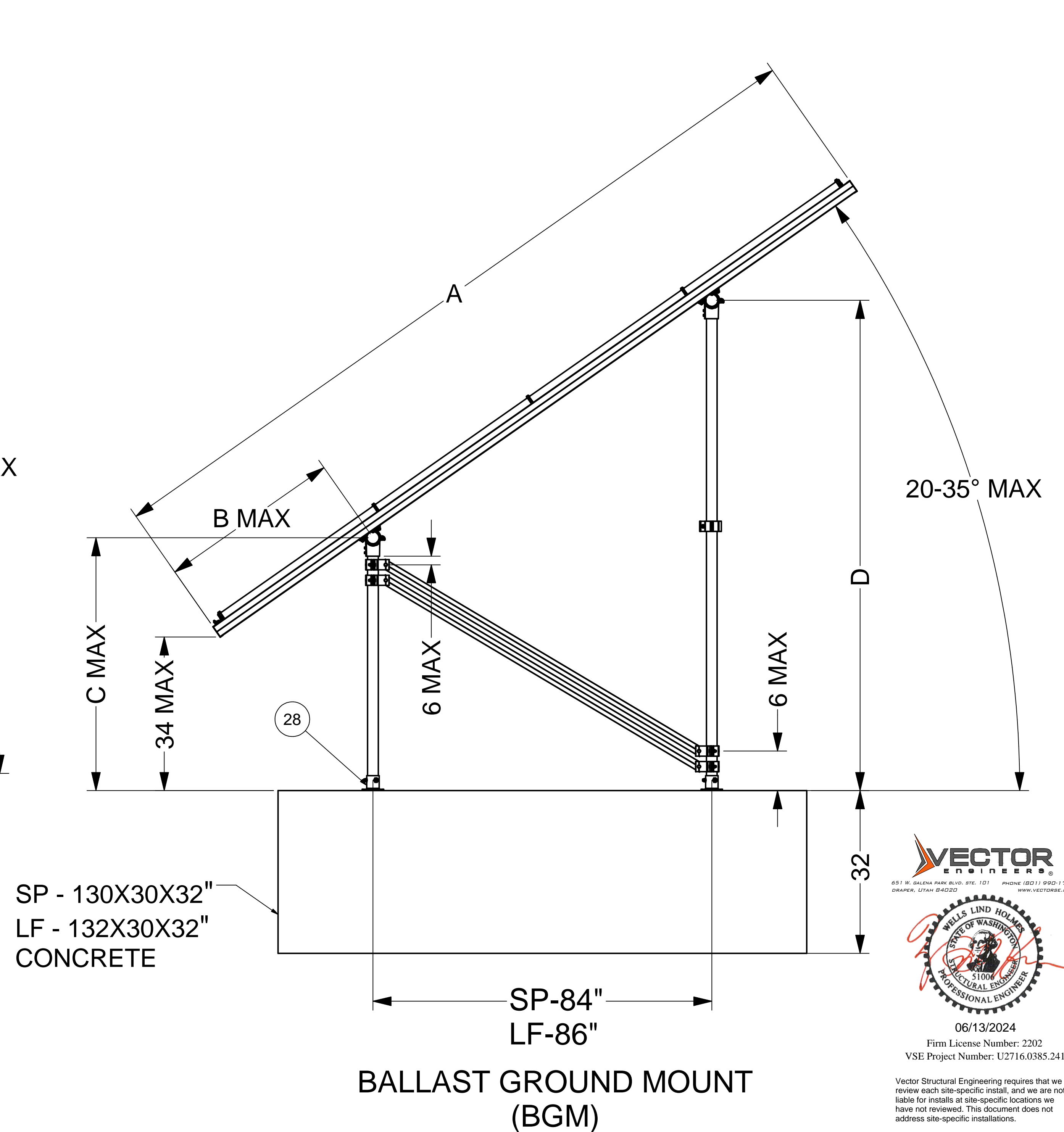
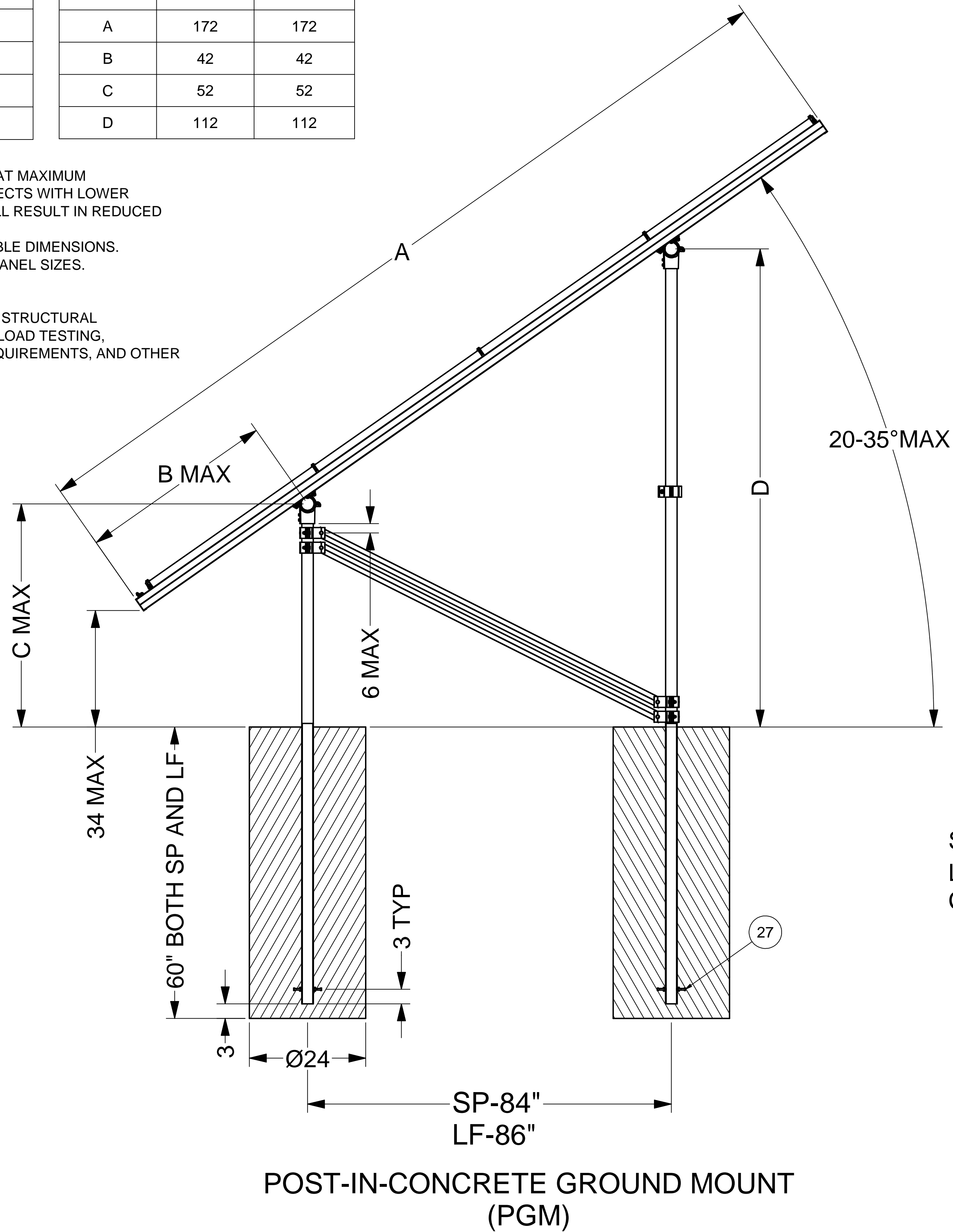
06/13/2024
Firm License Number: 2202
VSE Project Number: U2716.0385.241

DIMENSIONS - STANDARD PANEL		
ITEM	4L	2P
A	168	166
B	38	37
C	52	51
D	110	109

DIMENSIONS - LARGE FORMAT PANEL		
ITEM	4L	2P
A	172	172
B	42	42
C	52	52
D	112	112

NOTES

1. DIMENSIONS IN TABLE ARE SHOWN AT MAXIMUM TILT & LEADING EDGE HEIGHT. PROJECTS WITH LOWER TILTS & LEADING EDGE HEIGHTS WILL RESULT IN REDUCED DIMENSIONS.
2. MAX DENOTES MAXIMUM PERMISSIBLE DIMENSIONS.
3. SEE NOTE 7 OF COVER PAGE FOR PANEL SIZES.
4. K10268-005 (2" PIPE BASE KIT) OR K10302-001 (2" PIPE BASE KIT)
5. SEE LETTER PROVIDED BY VECTOR STRUCTURAL ENGINEERING, LLC FOR REQUIRED LOAD TESTING, FOUNDATION AND ANCHORAGE REQUIREMENTS, AND OTHER INFORMATION NOT SHOWN.



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28		POST BASE. VARIES PER NOTE 4	
27	K10186-001	EMBEDDED 2.0" PIPE CLAMP KIT	
ITEM	PART NUMBER	DESCRIPTION	QTY

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TITLE: PACKET A16

DRAWING NUMBER

D

SCALE: SHEET 5 of 5 REV