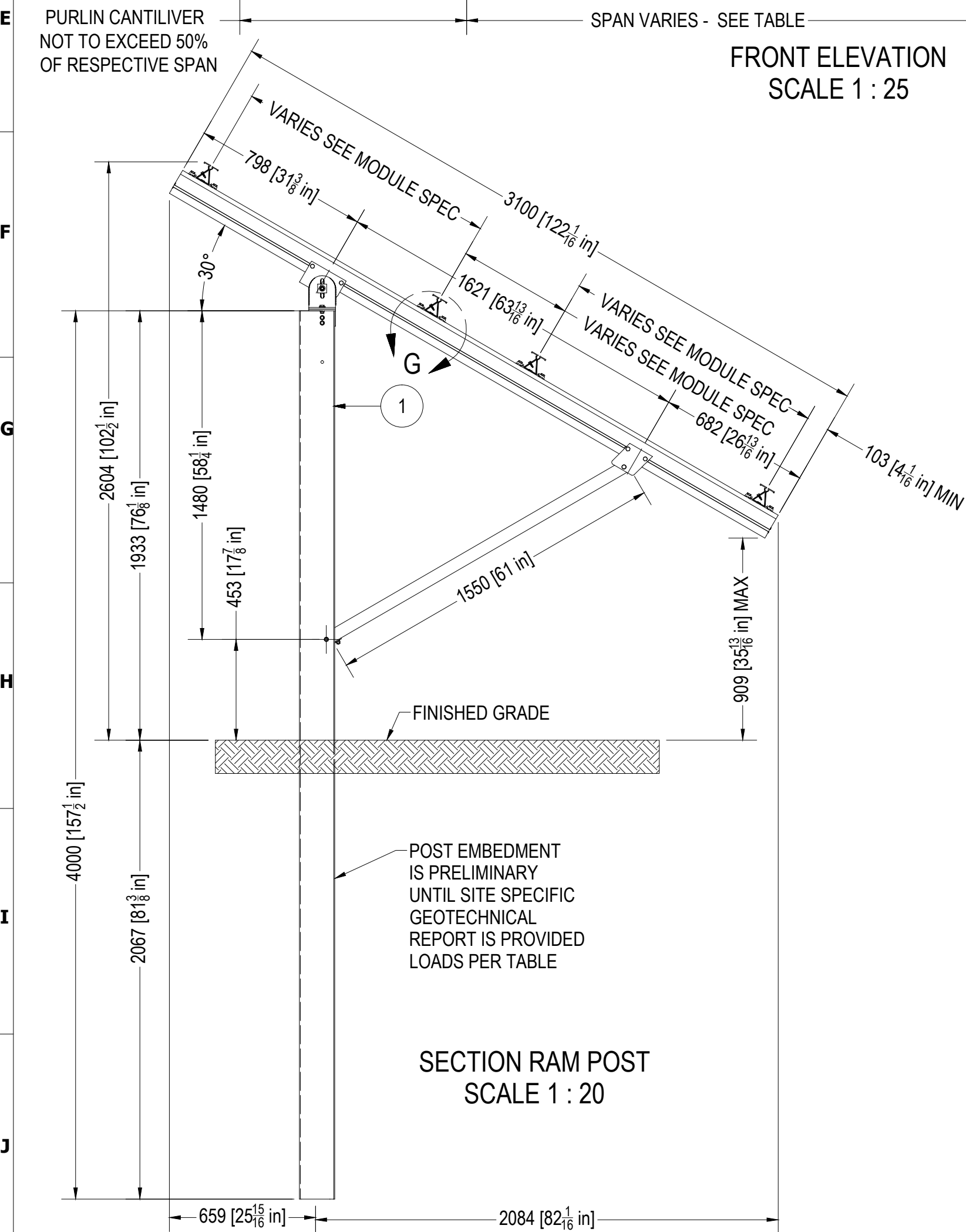
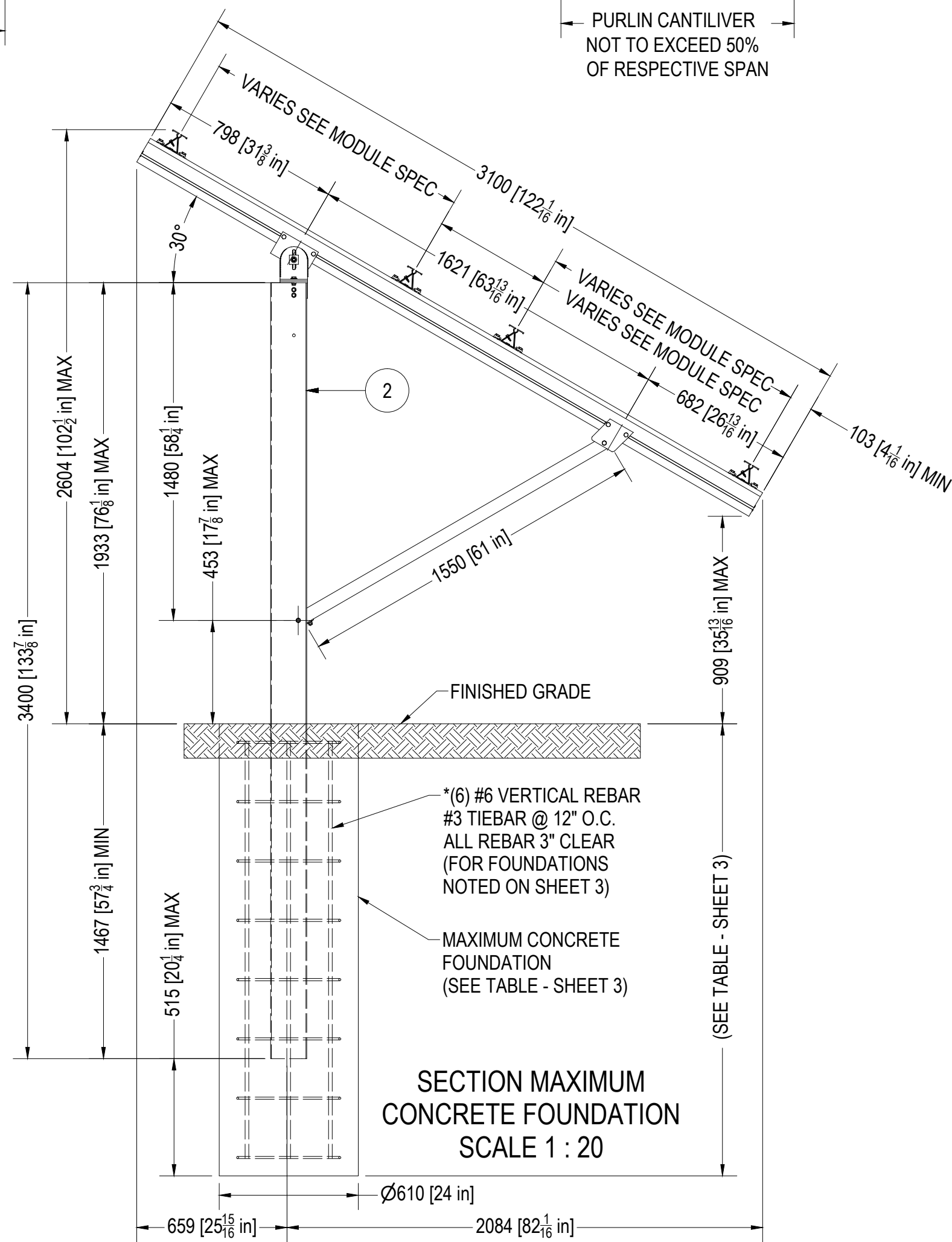


FRONT ELEVATION
SCALE 1 : 25

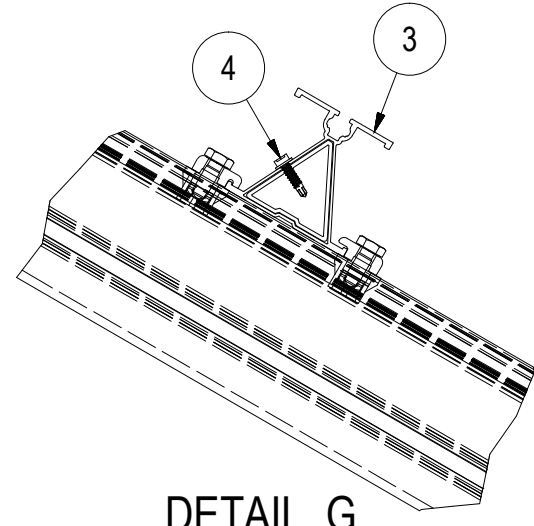


SECTION RAM POST
SCALE 1 : 20

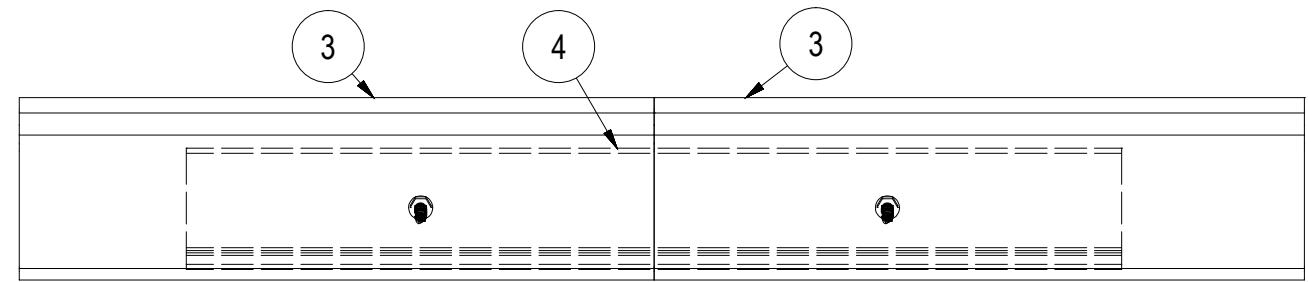


SECTION MAXIMUM
CONCRETE FOUNDATION
SCALE 1 : 20

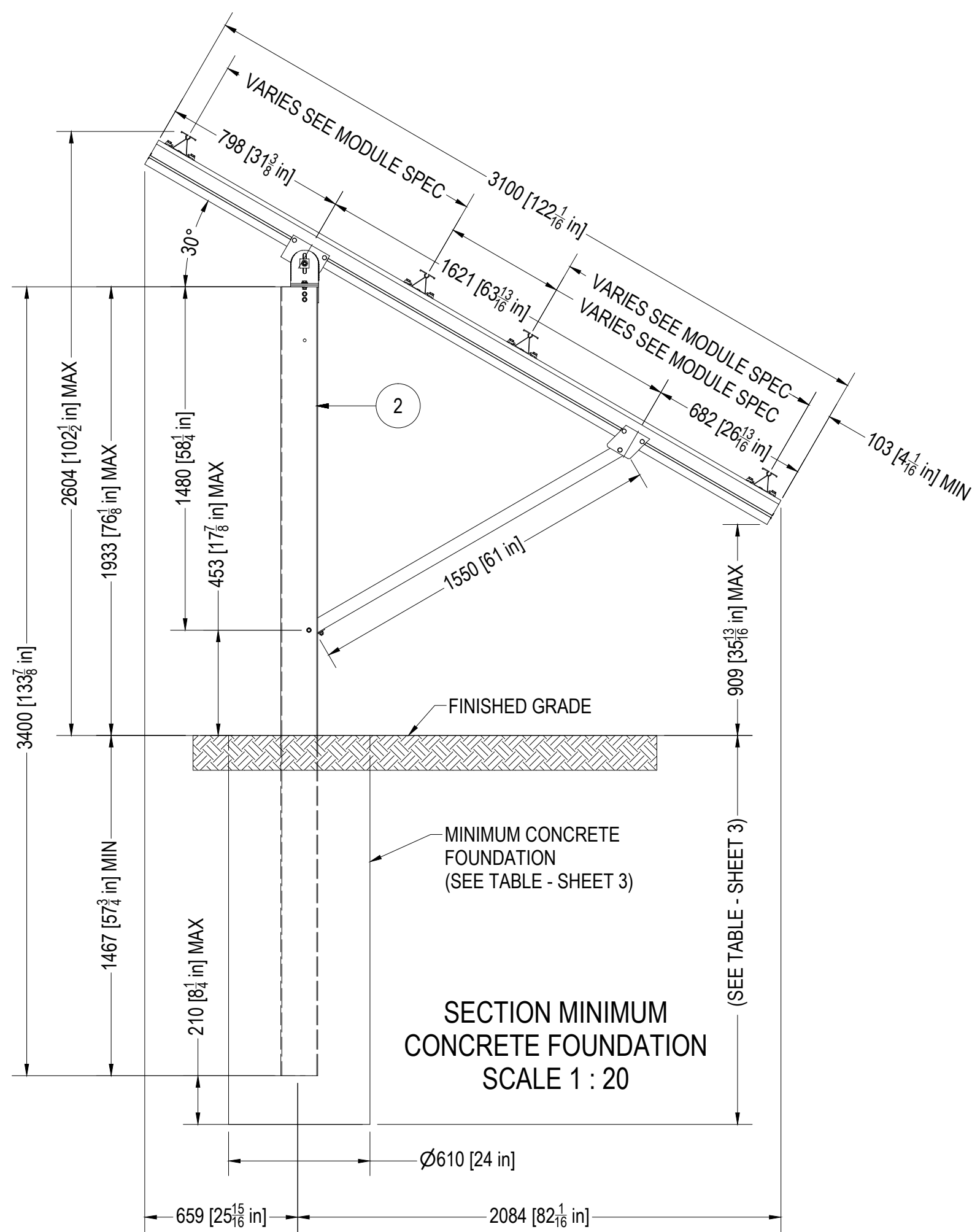
PARTS LIST		
ITEM	PART NUMBER	DESCRIPTION
1	140003-004	Standard, FS, Ram Post, 60 Cell, 30°, Triangle
2	140004-004	Standard, FS, Foundation, 60 Cell, 30°, Triangle
3	124303-06200	Rail, S1.5, L = 6200 mm
4	129303-000	Splice, S1.5, Kit



DETAIL G
SCALE 1 : 5



SPLICE DETAIL
SCALE 1 : 4



SECTION MINIMUM
CONCRETE FOUNDATION
SCALE 1 : 20

DESIGN CRITERIA:
FOR STRUCTURAL DESIGN INFORMATION AND APPLICABLE BUILDING CODES,
REFERENCE ACCOMPANYING LETTER OF ACCEPTANCE AND CALCULATIONS.

LOADS:
MODULE DEAD LOAD = MAX 3.0 PSF, MIN 1.75 PSF
SNOW LOAD = SEE TABLE FOR SPECIFIC SNOW LOAD
Is = 1.00, Ct = 1.20, Ce = 0.90, Cs = 0.82

SEISMIC LOADS:
SEISMIC DESIGN CATEGORY: E
SOIL SITE CLASS = D
SDS = 1.67 SD1 = 1.0
Ie = 1.0 SS = 2.5
S1 = 1.0 R = 1.25

WIND DESIGN:
BASIC WIND SPEED = SEE TABLE FOR SPECIFIC WIND SPEED
EXPOSURE: C
RISK CATEGORY = II (ASCE 7-10)
Iw = 1.0 (ASCE 7-05)

INSTALLATION TOLERANCES:
LATERAL POST PLACEMENT IS ±5.0"
TOTAL LATERAL DEVIATION OF POSTS WITHIN AN ARRAY IS ±5.0"
POST HEIGHT VARIATION TOLERANCE IS ±0.40"
POST VERTICALITY TOLERANCE <2.0° IN ALL DIRECTIONS
POST ROTATIONAL TOLERANCE <±7.0°
ARRAY TILT ANGULAR TOLERANCE ±1.0°

GENERAL:
1. THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OR SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERE TO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE INSPECTION OF THESE ITEMS). THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL SCAFFOLDING, BRACING AND SHORING.
2. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDA.

ALUMINUM:
1. ALL ALUMINUM SHALL CONFORM WITH THE LATEST ALUMINUM DESIGN HANDBOOK.
2. ALL ALUMINUM SECTIONS SHALL BE:
a. SEMI-HOLLOW AND HOLLOW SHALL BE 6105-T5, 6005A-T6, OR 6005-T5
b. SOLIDS SHALL BE 6063-T6

STEEL:
1. ALL BOLTS AND WASHERS SHALL BE 304 STAINLESS STEEL CLASS 2 (A2-70).
2. ALL NUTS SHALL BE 316 STAINLESS STEEL CLASS 2 (A4-70)

TORQUE:
TORX BOLT FOR RAPID 2+ MODULE CLAMPS IS 14 N-M (10.5 FT-LBS)
M6 AND 1/4" BOLT TORQUE IS 6 N-M (4.5 FT-LBS)
M8 AND 5/16" BOLT TORQUE IS 14 N-M (10.5 FT-LBS)
M10 AND 3/8" BOLT TORQUE IS 30 N-M (23 FT-LBS)
M12 AND 1/2" BOLT TORQUE IS 50 N-M (37 FT-LBS)
M16 AND 5/8" BOLT TORQUE IS 121 N-M (89 FT-LBS)
M20 AND 3/4" BOLT TORQUE IS 244 N-M (180 FT-LBS)

NOTE: RECOMMENDED SPEED FOR INSTALLATION OF SELF-DRILLING 1/4" DIAMETER SCREWS IS 1200-1800 RPMs.

MODULE SIZE:
RACKING SYSTEM DESIGNED FOR MODULE SIZE: MINIMUM = 1550 X 970
VERTICAL MODULE GAP: 23 mm MAXIMUM = 1700 X 1050
HORIZONTAL MODULE GAP: 5 mm

NOTE:
1. MODULES MUST BE CENTERED ON ARRAY
2. ARRAY LENGTH NOT TO EXCEED 150 FT

RAM POST FOUNDATIONS:
1. FOUNDATION DESIGN IS BASED UPON GEOTECHNICAL REPORT/TESTING REQUIREMENTS. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT.
2. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY GEOTECHNICAL ASPECTS OF THIS PROJECT. IF THE INSTALLER NOTICES ANY SOIL THAT HAS DIFFERENT DRIVING CHARACTERISTICS THAN EXISTED FOR TESTED DRIVEN POSTS, CONTACT THE ENGINEER IMMEDIATELY.

NOTE:
THE POST EMBEDMENT DEPTH IS PRELIMINARY AND SHALL BE VERIFIED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO CONSTRUCTION. BASED UPON ON SITE TESTING BY THE GEOTECHNICAL ENGINEER.

CONCRETE FOUNDATIONS:
1. NO SOILS REPORT PROVIDED. FOUNDATION DESIGN IS BASED ON MINIMUM IBC SOIL BEARING VALUE = 1500 PSF PER IBC TABLE 1804.2 (2003, 2006), & 1806.2 (2009, 2012, 2015). DRILLED SHAFT FOUNDATIONS SHALL BE BUILT IN UNDISTURBED SOIL OR COMPACTED FILL MATERIAL NOT LESS THAN 12" IN DEPTH.
2. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR ANY GEOTECHNICAL ASPECTS OF THIS PROJECT. IT IS RECOMMENDED THAT THE OWNER RETAIN A REGISTERED GEOTECHNICAL ENGINEER TO CONDUCT A GEOTECHNICAL INVESTIGATION AND PREPARE A REPORT WITH RECOMMENDATIONS FOR FOUNDATION AND EARTHWORK PROCEDURES.

CONCRETE:
1. ALL CONCRETE WORK SHALL CONFORM WITH THE REQUIREMENTS OF ACI 301 AND ACI 318. CEMENT PER ASTM C150, TYPE II. AGGREGATE PER ASTM C33. CONCRETE SHALL BE READY MIXED IN ACCORDANCE WITH ASTM C94 AND SHALL BE DESIGNED FOR A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS FOLLOWS:
FOUNDATIONS.....3,000 PSI*
*DESIGNED FOR 2,500 PSI

NO.	DRAWN:	CHECKED:	REVIEWED:	APPROVED:	REVISIONS:
0	BushBr 7/29/2014				New Drawing
1	BushBr 1/14/2015				Update Post Lengths and Embedments
2	BushBr 2/3/2015				Update Foundation Embedment Depth
3	BushBr 2/11/2015				Update Post Lengths & Girder Length

Client:
Schletter Inc.
2201 North Forbes Boulevard
Tucson, AZ 85745



3761 E. FARNUM PLACE | TUCSON, AZ 85706
TEL: (520) 289 - 8700 | FAX: (520) 289 - 8695

EMAIL: MAIL@SCHLETTER.US
WWW.SCHLETTER.US

Standard FS 60 Cell - 30°
Racking Structure
Dimensions and Specifications

ISSUED BY: SCHLETTER INC.
PROPRIETARY AND CONFIDENTIAL

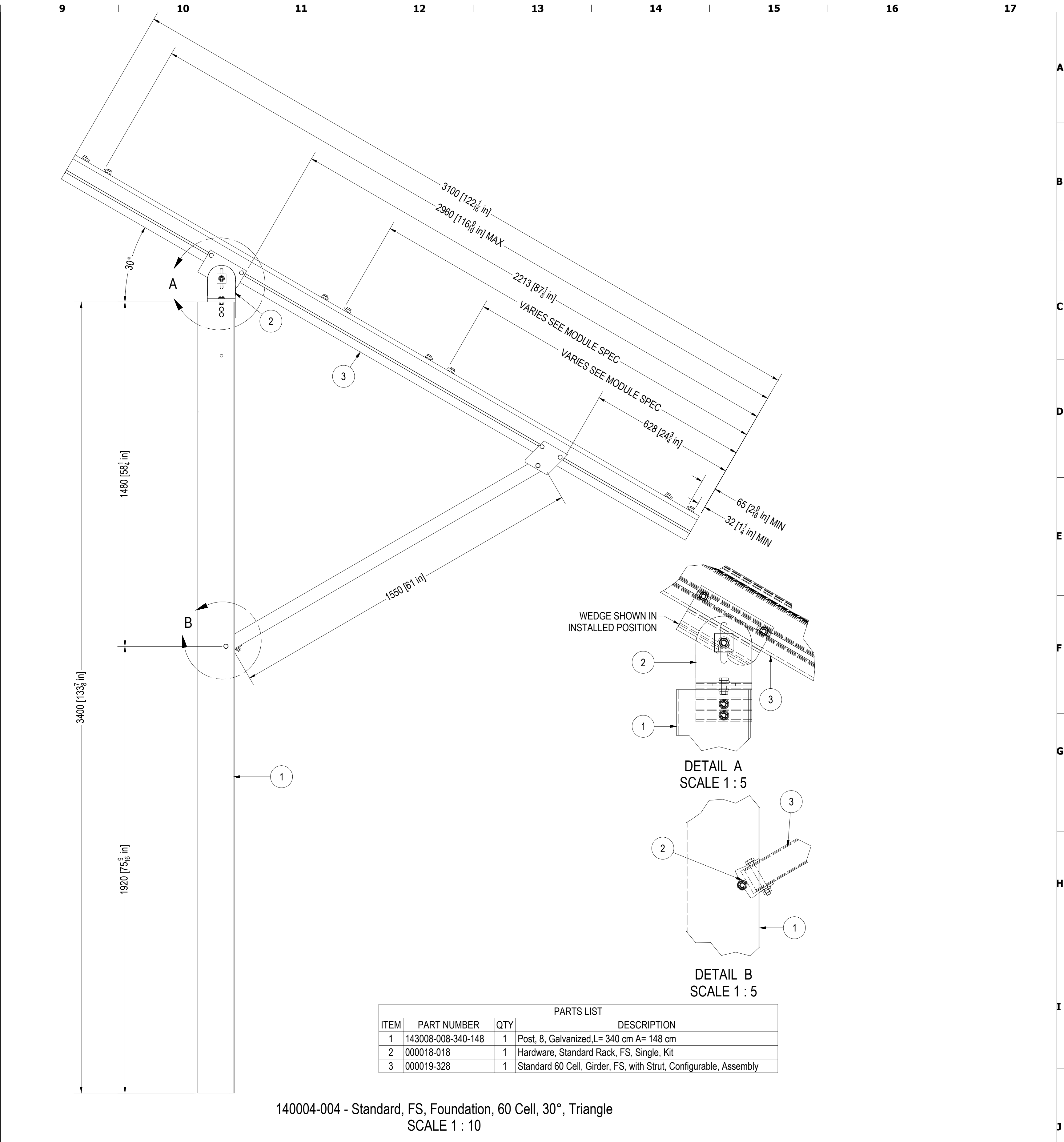
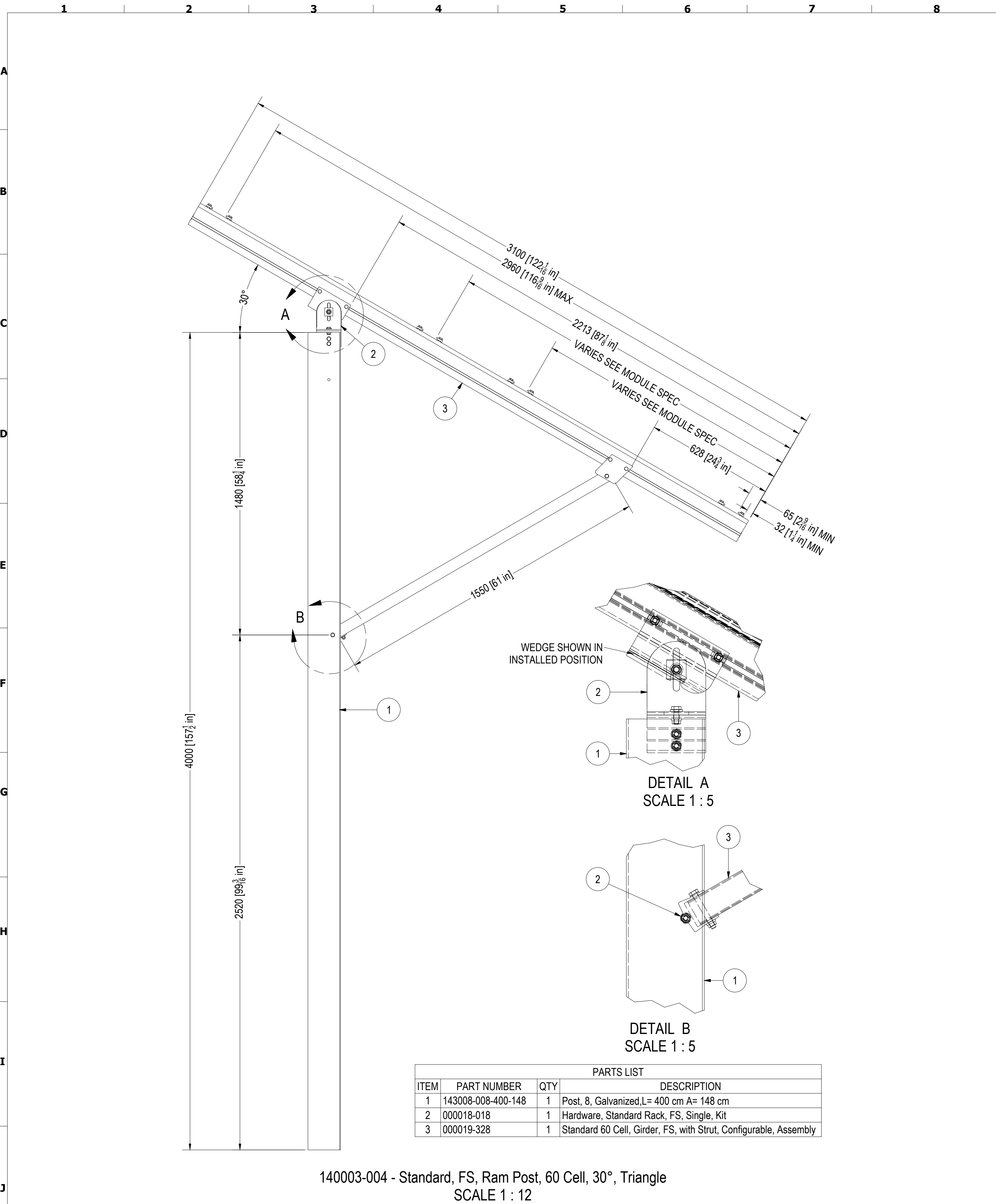
Project Site:
Schletter Inc.
1001 Commerce Center Dr
Shelby, NC 28150

Drawing Number:

v.04

JOB NUMBER: v
SHEET: 1 of 3

SCALE:
SEE DRAWING VIEWS



NO.	DRAWN:	CHECKED:	REVIEWED:	APPROVED:	REVISIONS:
0	BushBr 7/29/2014				New Drawing
1	BushBr 1/14/2015				Update Post Lengths and Embedments
2	BushBr 2/3/2015				Update Foundation Embedment Depth
3	BushBr 2/11/2015				Update Post Lengths & Girder Length

Client:
Schletter Inc.
2201 North Forbes Boulevard
Tucson, AZ 85745



3761 E. FARNUM PLACE | TUCSON, AZ 85706
TEL: (520) 289 - 8700 | FAX: (520) 289 - 8695
EMAIL: MAIL@SCHLETTER.US
WWW.SCHLETTER.US

Standard FS 60 Cell - 30°
Racking Structure
Dimensions and Specifications
ISSUED BY: SCHLETTER INC.
PROPRIETARY AND CONFIDENTIAL

Project Site:
Schletter Inc.
1001 Commerce Center Dr
Shelby, NC 28150

Drawing Number:
v.04
JOB NUMBER: V
SHEET: 2 of 3
SCALE:
SEE DRAWING VIEWS

ASCE 7-05								ASCE 7-05 W/ SEISMIC DESIGN													
TILT	WIND	GROUND SNOW	SLOPED ROOF SNOW	MAX SPAN	TENSION FORCE	SHEAR FORCE	DRILLED SHAFT DEPTH 2 FT DIAMETER X	TILT	WIND	GROUND SNOW	SLOPED ROOF SNOW	MAX SPAN	TENSION FORCE	SHEAR FORCE	DRILLED SHAFT DEPTH 2 FT DIAMETER X						
30°	85 MPH	0 PSF	0.00 PSF	14.5 FT	6.08 KIP	3.74 KIP	6.25 FT	30°	85 MPH	0 PSF	0.00 PSF	14.5 FT	6.08 KIP	3.74 KIP	6.25 FT						
		10 PSF	5.50 PSF	14.0 FT	5.88 KIP	3.61 KIP	6.25 FT			10 PSF	5.50 PSF	14.0 FT	5.88 KIP	3.61 KIP	6.25 FT						
		20 PSF	11.00 PSF	13.0 FT	5.47 KIP	3.35 KIP	6.00 FT			20 PSF	11.00 PSF	13.0 FT	5.47 KIP	3.35 KIP	6.00 FT						
		30 PSF	16.49 PSF	11.5 FT	4.85 KIP	2.95 KIP	5.75 FT			30 PSF	16.49 PSF	11.5 FT	4.85 KIP	2.95 KIP	5.75 FT						
		40 PSF	21.99 PSF	10.5 FT	4.44 KIP	2.72 KIP	6.00 FT			40 PSF	21.99 PSF	9.0 FT	3.81 KIP	2.36 KIP	5.50 FT						
		50 PSF	27.49 PSF	10.0 FT	4.23 KIP	2.64 KIP	6.25 FT			50 PSF	27.49 PSF	8.0 FT	3.38 KIP	2.15 KIP	5.75 FT						
	90 MPH	60 PSF	32.99 PSF	9.5 FT	4.02 KIP	2.56 KIP	6.50 FT		60 PSF	32.99 PSF	7.0 FT	2.95 KIP	1.93 KIP	5.75 FT							
		0 PSF	0.00 PSF	14.0 FT	6.66 KIP	4.05 KIP	6.50 FT		0 PSF	0.00 PSF	14.0 FT	6.66 KIP	4.05 KIP	6.50 FT							
		10 PSF	5.50 PSF	13.5 FT	6.42 KIP	3.90 KIP	6.25 FT		10 PSF	5.50 PSF	13.5 FT	6.42 KIP	3.90 KIP	6.25 FT							
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		10 PSF	5.50 PSF	11.0 FT	6.60 KIP	3.91 KIP	6.25 FT		10 PSF	5.50 PSF	11.0 FT	6.60 KIP	3.91 KIP	6.25 FT							
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	120 MPH	30 PSF	16.49 PSF	9.0 FT	6.63 KIP	3.84 KIP	6.00 FT		30 PSF	16.49 PSF	9.0 FT	6.63 KIP	3.84 KIP	6.00 FT							
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		10 PSF	5.50 PSF	7.5 FT	6.64 KIP	3.75 KIP	6.00 FT		10 PSF	5.50 PSF	7.5 FT	6.64 KIP	3.75 KIP	6.00 FT							
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		40 PSF	21.99 PSF	7.5 FT	6.64 KIP	3.79 KIP	6.00 FT		40 PSF	21.99 PSF	7.5 FT	6.64 KIP	3.79 KIP	6.00 FT							
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	30°	110 MPH	10 PSF	5.50 PSF	6.5 FT	6.78 KIP	3.77 KIP		6.00 FT	30°	110 MPH	10 PSF	5.50 PSF	6.5 FT	6.78 KIP	3.77 KIP	6.00 FT				
			20 PSF	11.00 PSF	6.5 FT	6.78 KIP	3.79 KIP		6.00 FT			20 PSF	11.00 PSF	6.5 FT	6.78 KIP	3.79 KIP	6.00 FT				
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			40 PSF	21.99 PSF	6.5 FT	6.78 KIP	3.85 KIP		6.00 FT			40 PSF	21.99 PSF	6.5 FT	6.78 KIP	3.85 KIP	6.00 FT				
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		115 MPH	0 PSF	0.00 PSF	6.5 FT	6.78 KIP	3.76 KIP		6.00 FT		30°	115 MPH	0 PSF	0.00 PSF	6.5 FT	6.78 KIP	3.76 KIP	6.00 FT			
			10 PSF	5.50 PSF	6.5 FT	6.78 KIP	3.77 KIP		6.00 FT				10 PSF	5.50 PSF	6.5 FT	6.78 KIP	3.77 KIP	6.00 FT			
			20 PSF	11.00 PSF	6.5 FT	6.78 KIP	3.79 KIP		6.00 FT				20 PSF	11.00 PSF	6.5 FT	6.78 KIP	3.79 KIP	6.00 FT			
			30 PSF	16.49 PSF	6.5 FT	6.78 KIP	3.82 KIP		6.00 FT				30 PSF	16.49 PSF	6.5 FT	6.78 KIP	3.82 KIP	6.00 FT			
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			50 PSF	27.49 PSF	6.5 FT	6.78 KIP	3.88 KIP		6.00 FT				50 PSF	27.49 PSF	6.5 FT	6.78 KIP	3.88 KIP	6.00 FT			
130 MPH		60 PSF	32.99 PSF	6.5 FT	6.78 KIP	3.88 KIP	6.00 FT	30°	130 MPH			60 PSF	32.99 PSF	6.5 FT	6.78 KIP	3.88 KIP	6.00 FT				
		0 PSF	0.00 PSF	6.5 FT	6.78 KIP	3.88 KIP	6.00 FT					0 PSF	0.00 PSF	6.5 FT	6.78 KIP	3.88 KIP	6.00 FT				
		10 PSF	5.50 PSF	6.5 FT	6.78 KIP	3.87 KIP	6.00 FT					10 PSF	5.50 PSF	6.5 FT	6.78 KIP	3.87 KIP	6.00 FT				
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30°		140 MPH	50 PSF	27.49 PSF	6.5 FT	6.78 KIP	3.95 KIP		6.00 FT			30°	140 MPH	50 PSF	27.49 PSF	6.5 FT	6.78 KIP	3.95 KIP	6.00 FT		
			60 PSF	32.99 PSF	6.5 FT	6.78 KIP	3.99 KIP		6.00 FT					60 PSF	32.99 PSF	6.5 FT	6.78 KIP	3.99 KIP	6.00 FT		
			0 PSF	0.00 PSF	6.5 FT	6.78 KIP	3.99 KIP		6.00 FT					0 PSF	0.00 PSF	6.5 FT	6.78 KIP	3.99 KIP	6.00 FT		
			10 PSF	5.50 PSF	6.5 FT	6.78 KIP	3.99 KIP		6.00 FT					10 PSF	5.50 PSF	6.5 FT	6.78 KIP	3.99 KIP	6.00 FT		
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		150 MPH	40 PSF	21.99 PSF	6.5 FT	6.78 KIP	3.95 KIP		6.00 FT				30°	150 MPH	40 PSF	21.99 PSF	6.5 FT	6.78 KIP	3.95 KIP	6.00 FT	
			50 PSF	27.49 PSF	6.5 FT	6.78 KIP	3.98 KIP		6.00 FT						50 PSF	27.49 PSF	6.5 FT	6.78 KIP	3.98 KIP	6.00 FT	
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			10 PSF	5.50 PSF	7.0 FT	6.91 KIP	3.87 KIP		6.00 FT						10 PSF	5.50 PSF	7.0 FT	6.91 KIP	3.87 KIP	6.00 FT	
			20 PSF	11.00 PSF	7.0 FT	6.91 KIP	3.87 KIP		6.00 FT						20 PSF	11.00 PSF	7.0 FT	6.91 KIP	3.87 KIP	6.00 FT	
		160 MPH	30 PSF	16.49 PSF	7.0 FT	6.91 KIP	3.89 KIP		6.00 FT					30°	160 MPH	30 PSF	16.49 PSF	7.0 FT	6.91 KIP	3.89 KIP	6.00 FT
			40 PSF	21.99 PSF	7.0 FT	6.91 KIP	3.92 KIP</														