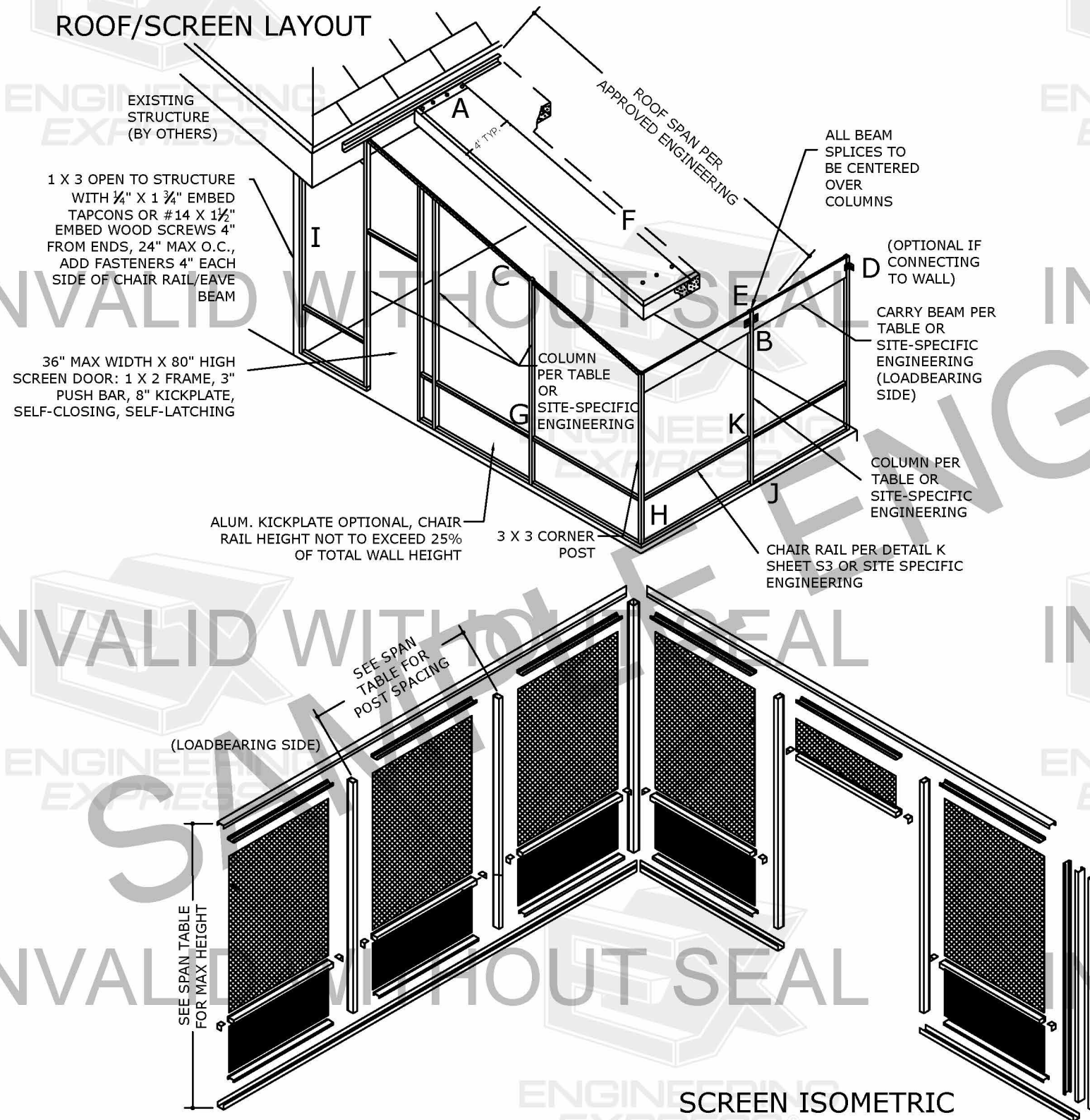




SCREEN ROOM AND EPS PANEL ROOF

MASTER PLAN SHEET

ROOF/SCREEN LAYOUT



DESIGN NOTES:

1. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH CHAPTER 16 OF THE 2020 FLORIDA BUILDING CODE (7TH EDITION), THE 2012/2015/2018 IBC/IRC, AS WELL AS CURRENT VERSIONS OF THE MN, NC, NJ, NY, OH, SC, & VA BUILDING CODES AS APPLICABLE. CODE ENFORCED COMPLIES WITH STATE OF SEAL AND IF MULTIPLE VERSIONS LISTED THEN MOST STRINGENT APPLIES.
2. DESIGN SHALL UTILIZE ASD DESIGN METHOD USING ASCE 7-16 OR ASCE 7-10 BASED ON APPLICABLE CODE.
3. *THIS DOCUMENT DOES **NOT** CERTIFY PRODUCT FOR USE AS A HABITABLE STRUCTURE. SCREEN ROOM APPLICATION ONLY.
4. THE EXISTING STRUCTURE MUST BE CAPABLE OF SUPPORTING THE LOADED SUNROOM AS DETERMINED BY OTHERS. NO WARRANTY IS CONTAINED HEREIN.
5. ALL EXTRUSIONS SHALL BE ALUMINUM ALLOY TYPE 6005-T5 OR BETTER.
6. ALL FASTENERS TO BE ASTM F593, CW 316 STAINLESS STEEL, SAE GRADE 2 STEEL MIN, OR CADMIUM PLATED OR OTHER CORROSION RESISTANT MATERIAL AND SHALL COMPLY WITH THE 2015 ALUMINUM DESIGN MANUAL, THE ALUMINUM ASSOCIATION, INC., & APPLICABLE FEDERAL, STATE, AND LOCAL CODES.

GENERAL NOTES:

MATERIALS

- 1) FASTENERS SHALL HAVE A HEAD AND/OR BE PROVIDED WITH 1/2" DIAMETER WASHER MINIMUM UNLESS NOTED OTHERWISE. FOR ALUMINUM MEMBERS ALL ANCHORS SHALL BE SPACED WITH 2xDIAMETER END DISTANCE AND 2.5xDIAMETER MIN. SPACING TO ADJACENT ANCHORS, UNLESS NOTED OTHERWISE. PROVIDE (5) PITCHES MIN PAST THE THREAD PLANE FOR ALL SCREW CONNECTIONS.
- 2) ANY FASTENER STRIPPED OR NOT ADEQUATELY HOLDING SHALL BE REPLACED.
- 3) ALL CONCRETE ANCHORS MUST BE CARBON STEEL ITW, DEWALT, OR EQUIVALENT WITH 1 3/4" EMBEDMENT PAST FINISHES, 2 1/2" MIN. EDGE DISTANCE, FASTENED TO MINIMUM 3KSI UN-CRACKED CONCRETE.
- 4) IF REQUIRED BY CODE, THE EPS CORE SHALL BE SEPARATED FROM THE BUILDING INTERIOR BY A 15 MINUTE THERMAL BARRIER OF APPROVED 5/8 INCH GYPSUM WALLBOARD OR EQUAL. SUPERIOR MASON CAN PROVIDE UL1715 (INTERIOR) OR CLASS A(EXTERIOR) PANEL TO SATISFY CODE PROVIDED ALUM. & EPS MEET SPECS ABOVE.

OTHER

- 5) ALUMINUM MEMBERS IN CONTACT WITH CONCRETE & WOOD SHALL BE PROTECTED BY 'KOPPERS BITUMINOUS PAINT' OR MFR. EQUAL IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
- 6) ELECTRICAL GROUND AND ALL RELATED WIRING AND CONSIDERATIONS TO BE DESIGNED BY OTHERS AS REQUIRED.
- 7) EXISTING WOOD HOST STRUCTURE SHALL BE #2 SYP MIN. EXISTING METAL HOST STRUCTURE SHALL BE A36 STEEL OR 6063-T6 MIN ALUMINUM 1/4" THICK MIN. EXISTING CONCRETE HOST STRUCTURE SHALL BE 3000 PSI MIN. STRUCTURAL ADHESIVE SHALL HAVE 1500 PSI MIN BOND STRENGTH, CONTINUOUS BEAD, PROVIDED AT ALL SURFACES & JOINTS TO INTERLOCK THE SYSTEM.
- 8) THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- 9) ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. NO MEP WORK IS IMPLIED OR CERTIFIED & SHALL BE BY OTHERS. USE OF THIS SPECIFICATION BY CONTRACTOR, et al. INDEMNIFIES AND SAVES HARMLESS THIS ENGINEER FOR ALL COSTS AND DAMAGES INCLUDING LEGAL FEES AND APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES AND FROM DEVIATIONS OF THIS PLAN.
- 10) EXCEPT AS EXPRESSLY PROVIDED IN THIS SPECIFICATION, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

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SCREEN ROOM AND EPS PANEL ROOF
MASTER PLAN SHEET

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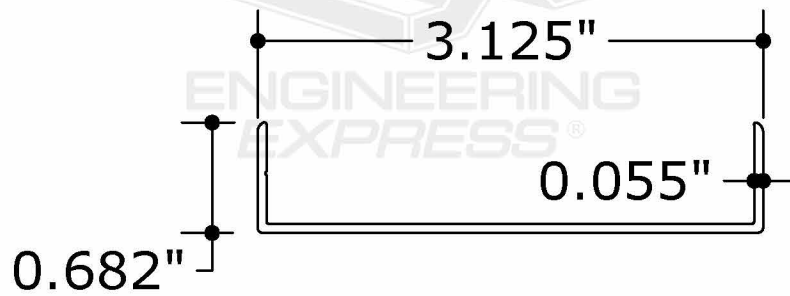
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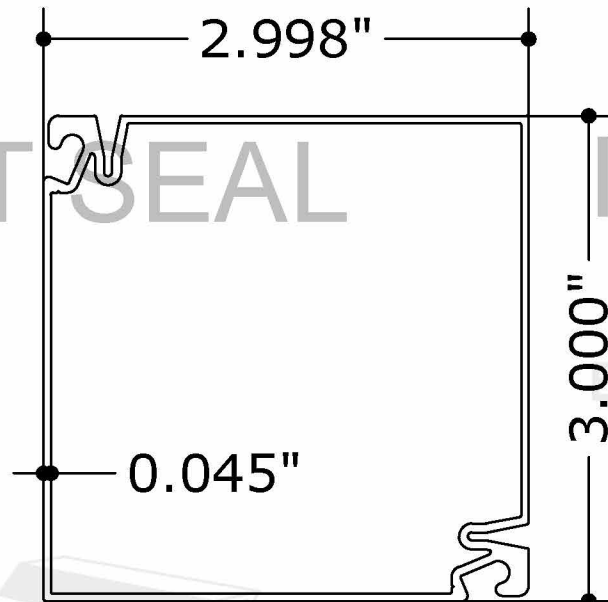
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EXTRUSIONS

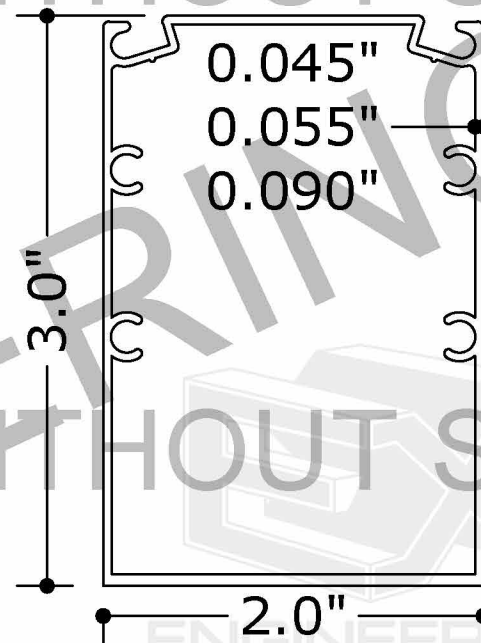
ALUINUM EXTRUSIONS TO
BE 6005-T5 OR BETTER



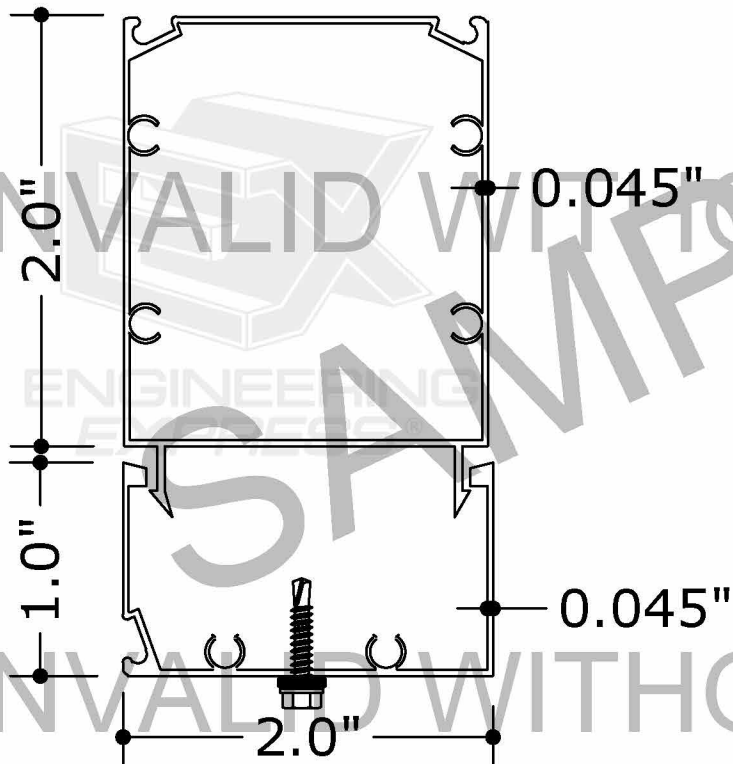
STARTER CHANNEL
(TO LEVEL AS NEEDED)



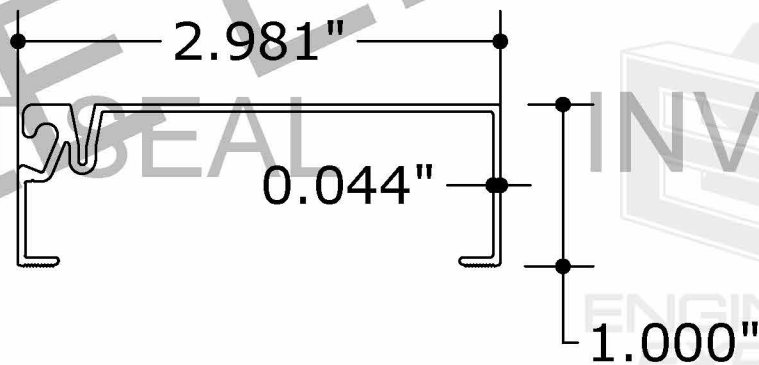
3 X 3 X 0.055" CORNER POST



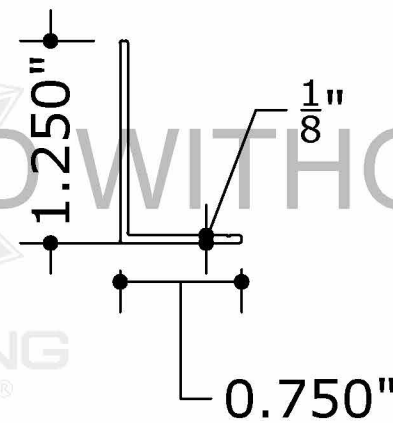
2 X 3 TUBES



2 X 2 + 1 X 2 OPEN *



1 X 3 X 0.045" OPEN



ATTACHMENT ANGLE

*FOR NON-SNAP USE #14 X 2½" SMS @ 16" O.C.
(THIS IS USED FOR NON-PRIMARY WALL HEADER &
2" X 3" X 0.045" CARRY BEAM APPLICATIONS)

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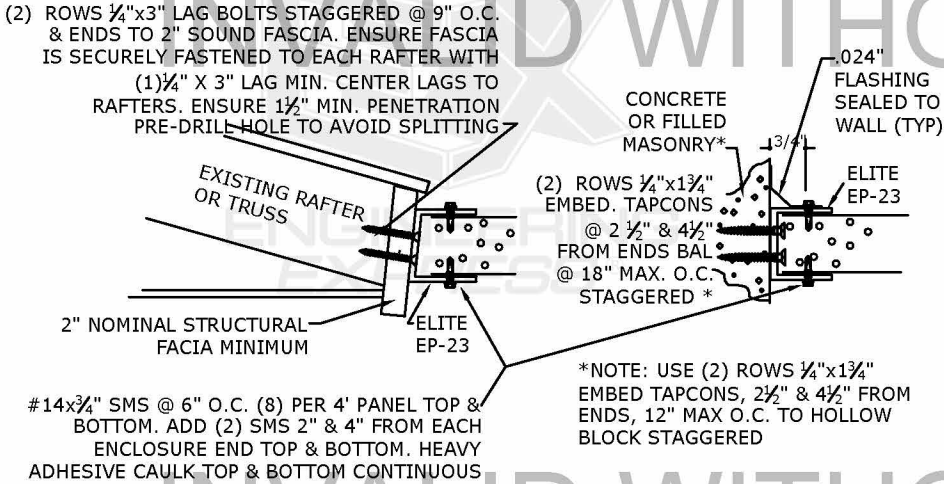
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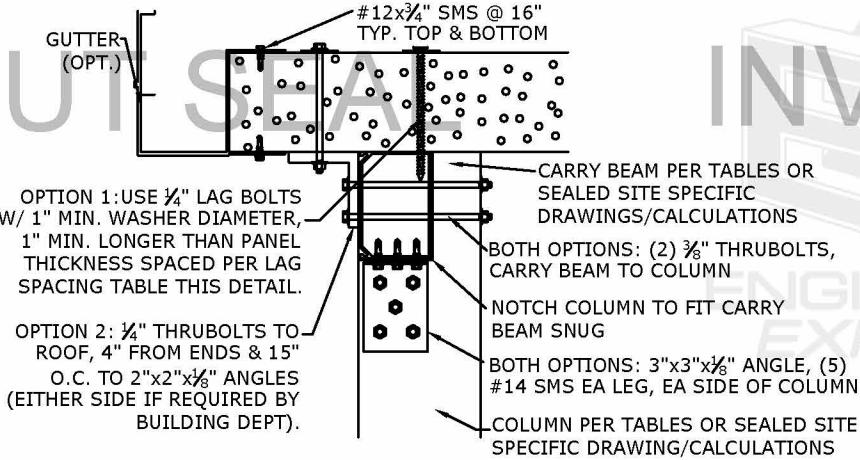
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CONNECTIONS:

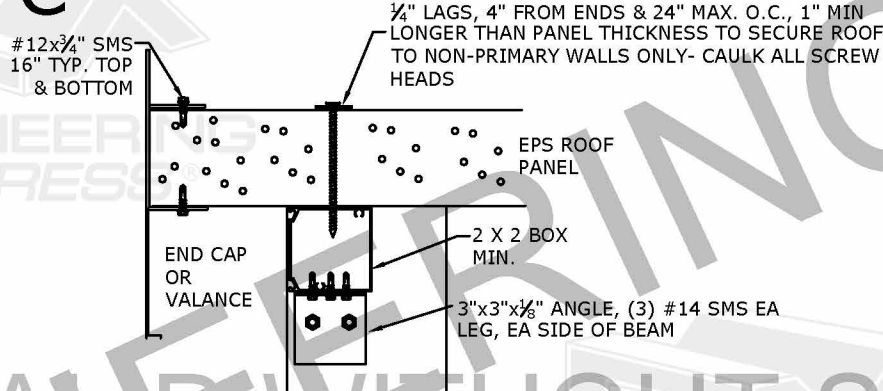
A CONNECTION TO STRUCTURE:
WOOD OR CONCRETE



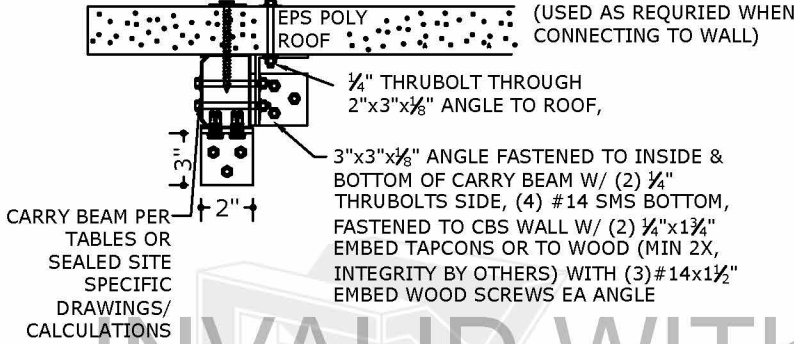
B SECTION AT BEARING COLUMN



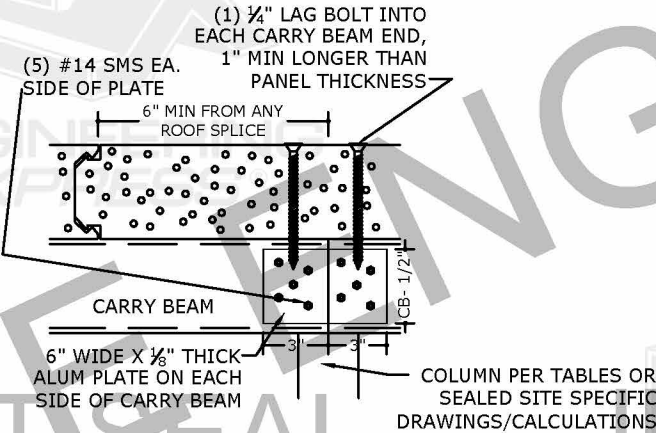
C SECTION AT SIDE OF ROOF PANEL



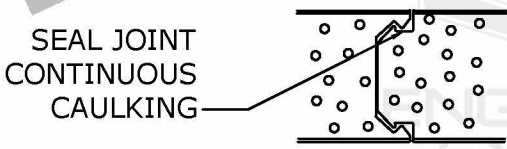
D EAVE BEAM CONNECTION @ WALL



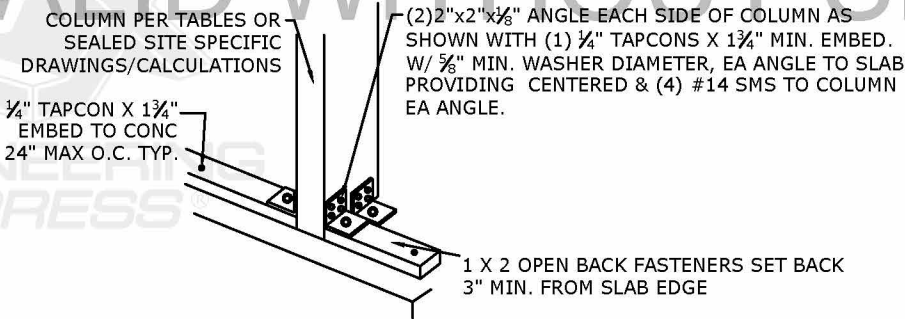
E BEAM SPLICE OVER COLUMN



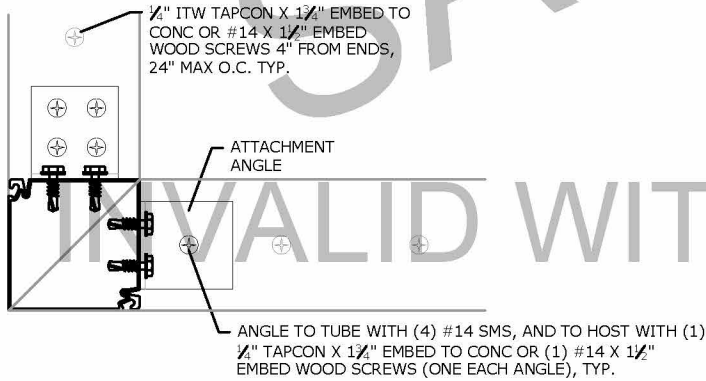
F ROOF PANEL CONNECTION FRONT ELEVATION



J ENCLOSURE TO CONCRETE DECK ANCHORING DETAIL

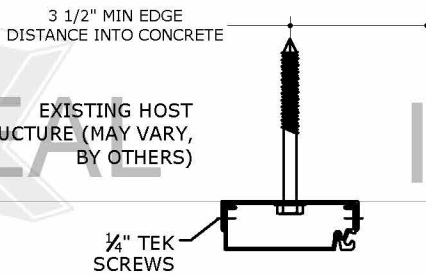


H CORNER HOST ATTACHMENT (CONCRETE OR WOOD HOST STRUCTURE)

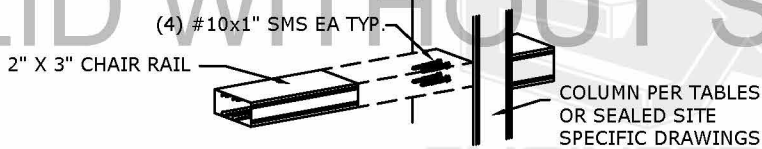


I 1x3 TO HOST STRUCTURE

APPLICABLE AT ALL HOST STRUCTURE CONNECTIONS (TOP, BOTTOM, OR SIDES)



K TYP. BEAM TO CHAIR RAIL



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COLUMN ALLOWABLE HEIGHT TABLE:

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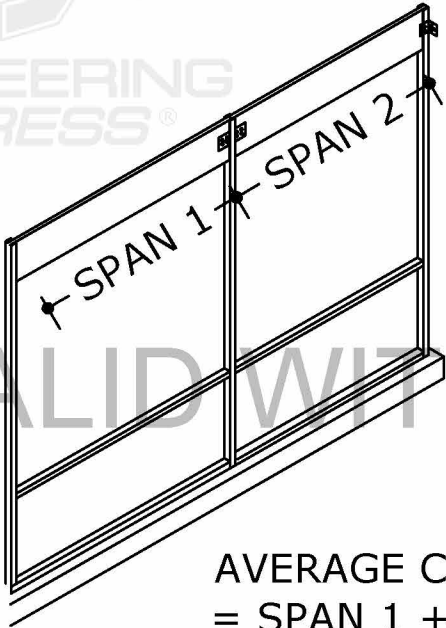
Column Type	Max Roof Span S (ft)	Live Load Gravity (psf)	Wind Load (psf)	AVG Column Spacing W(ft)				
				3	4	5	6	8
2" x 3" x 0.045" Tube	10	20	20	7'-0"	6'-1"	5'-4"	5'-1"	4'-3"
			30	5'-8"	5'-0"	4'-4"	4'-2"	-
			40	5'-0"	4'-4"	-	-	-
			50	4'-5"	-	-	-	-
		30	20	6'-7"	5'-8"	4'-10"	4'-6"	-
			30	5'-5"	4'-8"	-	-	-
			40	4'-8"	4'-0"	-	-	-
			50	4'-2"	-	-	-	-
		40	20	6'-3"	5'-3"	4'-5"	-	-
			30	5'-1"	4'-4"	-	-	-
			40	4'-5"	-	-	-	-
			50	-	-	-	-	-
	20	20	20	6'-0"	4'-10"	-	-	-
			30	4'-10"	-	-	-	-
			40	4'-2"	-	-	-	-
			50	-	-	-	-	-
		30	20	6'-5"	5'-5"	4'-7"	4'-2"	-
			30	5'-3"	4'-5"	-	-	-
			40	4'-6"	-	-	-	-
			50	4'-0"	-	-	-	-
		40	20	5'-9"	4'-8"	-	-	-
			30	4'-8"	-	-	-	-
			40	4'-1"	-	-	-	-
			50	-	-	-	-	-

Column Type	Max Roof Span S (ft)	Live Load Gravity (psf)	Wind Load (psf)	AVG Column Spacing W(ft)				
				3	4	5	6	8
3" x 3" x 0.055" Tube	10	20	20	9'-0"	7'-10"	6'-9"	6'-4"	5'-2"
			30	7'-4"	6'-4"	5'-6"	5'-2"	4'-3"
			40	6'-4"	5'-6"	4'-9"	4'-6"	-
			50	5'-8"	5'-0"	4'-3"	4'-0"	-
		30	20	8'-5"	7'-1"	6'-0"	5'-5"	4'-1"
			30	6'-10"	5'-10"	4'-10"	4'-5"	-
			40	6'-0"	5'-0"	4'-2"	-	-
			50	5'-4"	4'-6"	-	-	-
		40	20	7'-10"	6'-5"	5'-2"	4'-6"	-
			30	6'-5"	5'-3"	4'-3"	-	-
			40	5'-6"	4'-6"	-	-	-
			50	5'-0"	4'-1"	-	-	-
	20	20	20	7'-3"	5'-9"	4'-5"	-	-
			30	6'-0"	4'-8"	-	-	-
			40	5'-1"	4'-1"	-	-	-
			50	4'-7"	-	-	-	-
		30	20	8'-0"	6'-8"	5'-5"	4'-10"	-
			30	6'-6"	5'-5"	4'-5"	-	-
			40	5'-8"	4'-8"	-	-	-
			50	5'-1"	4'-2"	-	-	-
		40	20	7'-0"	5'-4"	-	-	-
			30	5'-8"	4'-5"	-	-	-
			40	5'-0"	-	-	-	-
			50	4'-5"	-	-	-	-

Column Type	Max Roof Span S (ft)	Live Load Gravity (psf)	Wind Load (psf)	AVG Column Spacing W(ft)				
				3	4	5	6	8
3" x 3" x 0.090" Tube	10	20	20	10'-0"	9'-5"	8'-1"	7'-8"	6'-3"
			30	8'-9"	7'-8"	6'-7"	6'-3"	5'-2"
			40	7'-7"	6'-8"	5'-9"	5'-5"	4'-5"
			50	6'-10"	6'-0"	5'-2"	4'-10"	-
		30	20	10'-0"	8'-7"	7'-2"	6'-7"	5'-0"
			30	8'-3"	7'-0"	5'-11"	5'-5"	4'-1"
			40	7'-2"	6'-1"	5'-1"	4'-8"	-
			50	6'-5"	5'-5"	4'-7"	4'-2"	-
		40	20	9'-5"	7'-9"	6'-3"	5'-6"	-
			30	7'-8"	6'-4"	5'-2"	4'-6"	-
			40	6'-8"	5'-6"	4'-5"	-	-
			50	6'-0"	5'-0"	-	-	-
	20	20	20	8'-9"	7'-0"	5'-5"	4'-5"	-
			30	7'-2"	5'-8"	4'-5"	-	-
			40	6'-2"	5'-0"	-	-	-
			50	5'-7"	4'-5"	-	-	-
		30	20	9'-8"	8'-0"	6'-7"	5'-10"	4'-1"
			30	7'-11"	6'-7"	5'-5"	4'-10"	-
			40	6'-10"	5'-8"	4'-8"	4'-2"	-
			50	6'-1"	5'-1"	4'-2"	-	-
		40	20	8'-5"	6'-7"	5'-0"	-	-
			30	6'-11"	5'-4"	4'-0"	-	-
			40	6'-0"	4'-8"	-	-	-
			50	5'-4"	4'-2"	-	-	-

NOTES FOR ALL TABLES

- 1) ROOF SPAN IS TOTAL CLEAR ROOF SPAN ACTING ON EAVE BEAM AS NOTED ON ISOMETRIC DETAIL, SHEET S1.
- 2) LIMITING VALUES MAY BE HIGHER THAN COLUMN SPACING DUE TO AVERAGING OF ADJACENT BAYS.
- 3) 2015 ALUMINUM DESIGN MANUAL, ALLOWABLE STRESS DESIGN METHOD USED IN ALL TABLES.
- 4) USE APPROPRIATE VALUES REQUIRED BY THE GOVERNING BUILDING CODES. VERIFY REQUIREMENTS WITH BUILDING DEPARTMENT BEFORE USE.
- 5) 6005-T5 ALUMINUM ALLOY OR BETTER USED IN TABLES.
- 6) DEFLECTION LIMIT = L/60 USED IN TABLES.
- 7) COLUMN SPACING IS HALF THE DISTANCE TO THE LEFT ADDED TO HALF THE DISTANCE TO THE RIGHT OF THE COLUMN (AVERAGE COLUMN SPACING, SEE ILLUSTRATION).
- 8) VALUES BELOW ALLOWABLE CEILING HEIGHT INTENDED TO BE BUILT ON KNEEWALLS OR OTHER SUPPORTING STRUCTURES (SUPPORTING STRUCTURES CERTIFIED BY OTHERS).
- 9) LOAD TABLES TO BE SELECTED BY A SITE SPECIFIC DESIGN PROFESSIONAL.



AVERAGE COLUMN SPACING
= SPAN 1 + SPAN 2 / 2

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CARRY BEAM ALLOWABLE SPAN TABLE:

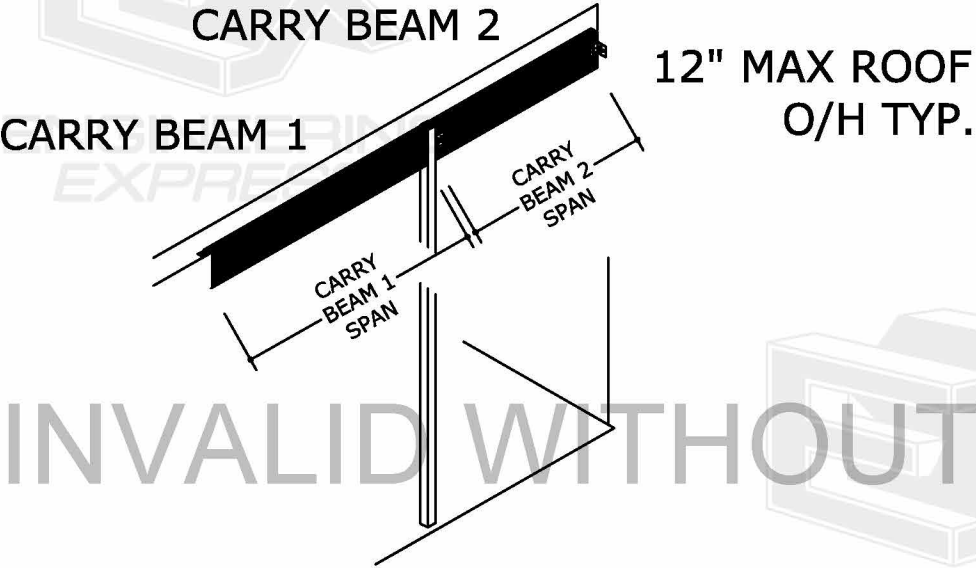
BEAM TYPE	ROOF LOAD (PSF)	MAX BEAM SPAN				
		3	4	5	6	8
2" x 3" x 0.045" Tube	20	9'-4"	8'-6"	7'-11"	7'-5"	6'-7"
	30	7'-7"	7'-0"	6'-5"	6'-0"	5'-5"
	40	6'-7"	6'-0"	5'-7"	5'-3"	4'-8"
	50	5'-11"	5'-5"	5'-0"	4'-8"	4'-2"

BEAM TYPE	ROOF LOAD (PSF)	MAX BEAM SPAN				
		3	4	5	6	8
3" x 3" x 0.055" Tube	20	11'-1"	10'-1"	9'-4"	8'-9"	7'-10"
	30	9'-0"	8'-3"	7'-8"	7'-2"	6'-5"
	40	7'-10"	7'-2"	6'-7"	6'-2"	5'-6"
	50	7'-0"	6'-5"	6'-0"	5'-6"	5'-0"

BEAM TYPE	ROOF LOAD (PSF)	MAX BEAM SPAN				
		3	4	5	6	8
3" x 3" x 0.090" Tube	20	13'-3"	12'-1"	11'-2"	10'-6"	9'-4"
	30	10'-10"	9'-11"	9'-2"	8'-7"	7'-8"
	40	9'-4"	8'-7"	8'-0"	7'-5"	6'-8"
	50	8'-5"	7'-8"	7'-1"	6'-8"	6'-0"

WIND SPEED TO PRESSUE CONVERSION GUIDE

WIND SPEED (MPH)	ASCE EXPOSURE CATEGORY	WALL PRESSURE ZONES			
		ZONE 4		ZONE 5	
		UP (+)	DOWN (-)	UP (+)	DOWN (-)
120	B	8.9	-13.8	8.9	-17.1
	C	13.1	-20.4	13.1	-25.2
	D	15.9	-24.8	15.9	-30.6
130	B	10.4	-16.2	10.4	-20.0
	C	15.4	-24.0	15.4	-29.6
	D	18.6	-29.1	18.6	-35.9
140	B	12.1	-18.8	12.1	-23.2
	C	17.8	-27.8	17.8	-34.3
	D	21.6	-33.7	21.6	-41.7
150	B	13.8	-21.6	13.8	-26.7
	C	20.4	-31.9	20.4	-39.4
	D	24.8	-38.7	24.8	-47.8
160	B	15.8	-24.6	15.8	-30.4
	C	8.2	-12.8	8.2	-15.8
	D	28.2	-44.1	28.2	-54.4
170	B	17.8	-27.8	17.8	-34.3
	C	26.3	-41.0	26.3	-50.6
	D	31.9	-49.8	31.9	-61.4



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