

Design Check List for Screen / Vinyl Room (page 1 of 2)

1. Design Statement

These plans have been designed in accordance with the Aluminum Structures Design Manual by Lawrence E. Bennett and comply with the Florida Building Code, 2001 Edition, Chapter 20 and ASCE 7-98, Table 6-2; Importance Factor 0.77; Exposure 'B' or 'C'; 120 MPH or MPH for 3 second wind gust velocity load; Partially Enclosed. Design pressures can be found on page 3-ii:

a. 'B' exposure = PSF for Roofs & PSF for Walls

b. 'C' exposure = PSF for Roofs & PSF for Walls

For 'C' exposure design loads, multiply 'B' exposure loads by 1.4.

2. Host Structure Adequacy Statement:

I certify that I have inspected the host structure and it is in good repair and attachments made to the structure will be solid.

Contractor Name (please print) Phone:

Date:

Contractor Signature

Note: Projection of room from host structure shall not exceed 16".

3. Building Permit Application Package contains the following:

	Yes	No
A. Project name & address on plans		
B. Site plan or survey with enclosure location		
C. Contractor's / Designer's name, address, phone number, & signature on plans		
D. Proposed project layout drawing @ 1/8" or 1/10" scale with the following:		
1. Plan view with host structure area of attachment, enclosure length, and projection from host structure.		
2. Front and side elevation views with all dimensions & heights		
3. Beam span, spacing, & size (i.e. 2" x 8" x 0.072" x 0.224").		
4. Upright height, spacing, & size (i.e. 2" x 8" x 0.072" x 0.224").		
5. Chair rail or girts size, length, & spacing (i.e. 2" x 2" x 0.044" x 5'-0" @ 6'-0" O.C.)		
6. Knee braces length, location, & size (i.e. 2" x 3" x 0.045" for 2" x 8" x 0.072" x 0.224" s.m.b.).		
4. Highlight details from Aluminum Structures Design Manual:	Yes	No
A. Beam & purlin tables w/ sizes, thickness, spacing, & spans / lengths. Indicate Section 3 tables used:		

Beam allowable span conversions from 120 MPH wind zone, 'B' Exposure to

MPH wind zone and/or 'C' Exposure for load width:

Look up span on 120 MPH table and apply the following formula:

Span / Height @ 120 MPH Required Span @ MPH

(b or d) x (b or d) x (b or d) =

Wind Zone Multiplier * Exposure Multiplier *

B. Upright tables w/ sizes, thickness, spacing, & heights (Tables 3.2.1, 3.2.2, or 3.2.3)

Upright or wall member allowable height / span conversions from 120 MPH wind zone, 'B' Exposure to MPH wind zone and/or 'C' Exposure for load width:

Look up span on 120 MPH table and apply the following formula:

Span / Height @ 120 MPH Required Span @ MPH

(b or d) x (b or d) x (b or d) =

Wind Zone Multiplier * Exposure Multiplier *

* Appropriate multiplier from page 3-ii.

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	Yes	No
C. Table 3.3 with beam & upright combination if applicable.		
D. Connection details to be used such as:		
1. Beam to upright		
2. Beam to wall		
3. Beam to beam		
4. Chair rail, purlins, & knee braces to beams & uprights		
5. Extruded gutter connection		
6. U-clip, angles and/or sole plate to deck		
E. Foundation detail type & size		

Notes:

SITE SPECIFIC JOB CHECK LIST

Date:

1. Provide job name and address:

2. Your company name and address.

3. Briefly describe any information relevant to the job.

The drawings must have the following minimum standards:

- a. Plan view with dimensions TO SCALE.
- b. Section view or front and side elevations TO SCALE.
- c. The preferred scale is 1/4" = 1'.
- d. Provide attachment details.
- e. Street map with job location.
- f. Wind zone and exposure category form Building Department.

General Notes and Specifications:

- The following structures are designed to be married to block and wood frame structures of adequate structural capacity. The contractor / home owner shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition.
- If there is a question about the host structure, the owner (at his own expense) shall hire an architect, engineer, or a certified home inspection company to verify host structure capacity.
- The structures designed using this section shall be limited to a maximum projection of 16' from the host structure. Freestanding structures shall be limited to the maximum spans and size limits of component parts. Larger than these limits shall have site specific engineering.
- The following rules apply to attachments involving mobile and manufactured homes:
 - Structures to be placed adjacent to a mobile / manufactured home built prior to 1994 shall use "fourth wall construction" or shall provide detailed plans of the mobile / manufactured home and inspection report along with addition plans for site specific review and seal by the engineer. This applies to all screen / glass rooms and / or structures to be attached.
 - "Fourth wall construction" means the addition shall be free standing with only the roof flashing of the two units being attached. The most common "fourth wall construction" is a post & beam frame adjacent to the mobile / manufactured home. The same span tables can be used as for the front wall beam. For fourth wall beam use the carrier beam table. The post shall be sized according to this manual and/or as a minimum be a 2" x 3" x 0.050" with an 18" x 2" x 0.044" knee brace at each end of the beam.
 - For mobile / manufactured homes built after 1994, structures may be attached, provided the project follows the plan provided in this manual. The contractor / owner shall provide verification that the structural system of the host structure is adequate for the addition to be attached.
 - If the mobile / manufactured home manufacturer certifies in writing that the mobile home may be attached to, then a "fourth wall" is NOT required.
- Section 7 contains span tables and the attachment details for pans and composite panels.
- Screen walls between existing walls, floors, and ceilings are considered infills and shall be allowed and heights shall be selected from the same tables as for other screen walls.
- When using TEK screws in lieu of S.M.S., longer screws must be used to compensated for drill head.
- For high velocity hurricane zones the minimum live load / applied load shall be 30 PSF.
- All specified anchors are based on an enclosed building with a 16' projection and a 2' overhang for up to a wind velocity of 120 MPH.
- Spans may be interpolated between values but not extrapolated outside values.
- When notes refer to screen rooms, they shall apply to acrylic / vinyl rooms also.

Section 3A Design Statement:

The structures designed for Section 3A are solid roofs with screen or vinyl walls and are considered part of an open structural system which is designed to be married to an existing structure.

The design wind loads used for screen & vinyl rooms are from Chapter 20 of the 2004 Florida Building Code. The loads assume a mean roof height of less than 30'; roof slope of 0° to 20°; $I = 0.77$. All loads are based on 20 / 20 screen or larger. All pressures shown in the below table are in PSF (#SF).

Negative internal pressure coefficient is 0.00 for open structures.

Anchors for composite panel roof systems were computed on a load width of 10' and 16' projection with a 2' overhang. Any greater load width shall be site specific.

General Notes and Specifications for Section 3A Tables:

Section 3A Design Loads

for Screen, Acrylic & Vinyl Rooms

	Roof	Wall	Over Hang
100 MPH	+10/-10	9	+20/-30
110 MPH	+10/-11	11	+20/-36
120 MPH	+10/-13	13	+20/-43
123 MPH	+10/-14	14	+20/-45
130 MPH	+10/-15	15	+20/-50
140A MPH	+10/-17	18	+30/-58
140B MPH	+30/-18	20	+30/-58
150 MPH	+30/-20	20	+30/-67

Note 1: Framing systems of screen, vinyl, and glass rooms are considered to be main frame resistance components. Wind loads are listed as minus loads for roofs and plus loads for walls. To convert above wind loads to "C" Exposure loads multiply by 1.4.

Conversion Table 3A-B

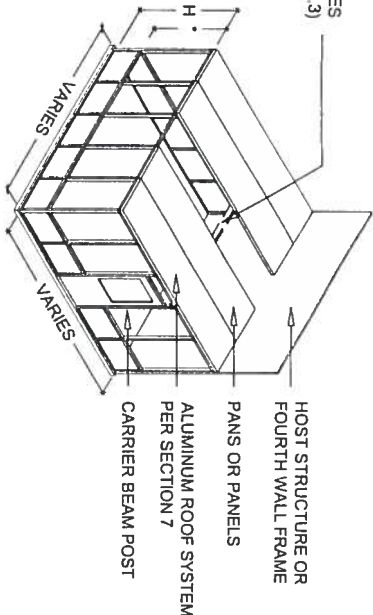
Wind Zone Conversions for Over Hangs

All Room Types

From 120 MPH Wind Zone to Others

Wind Zone	Applied Load	Deflection	Banding
MPH	(#SF)	(d)	(b)
100	30	1.13	1.20
110	36	1.06	1.09
120	43	1.00	1.00
123	45	0.98	0.98
130	50	0.95	0.93
140A	58	0.91	0.86
140B	58	0.91	0.86
150	67	0.86	0.80

INTERIOR BEAM (SEE TABLES 3A.1.3)

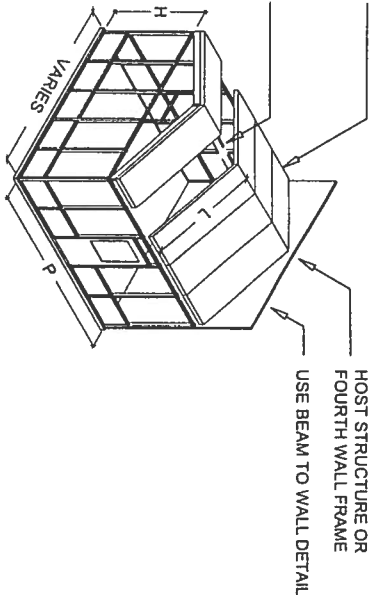


TYPICAL SLOPED SOLID ROOF ENCLOSURE

SCALE: N.T.S.

ALUMINUM ROOF SYSTEM PER SECTION 7

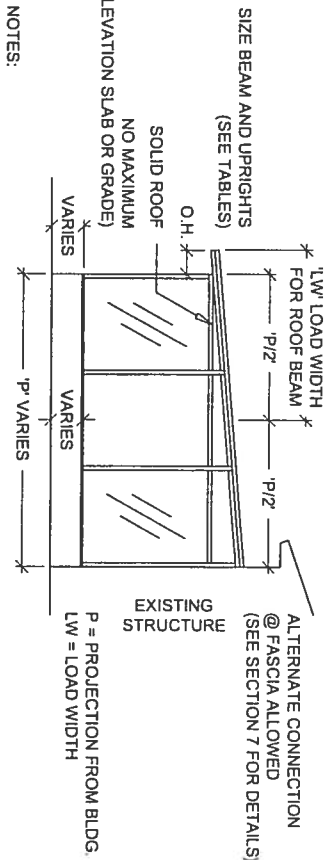
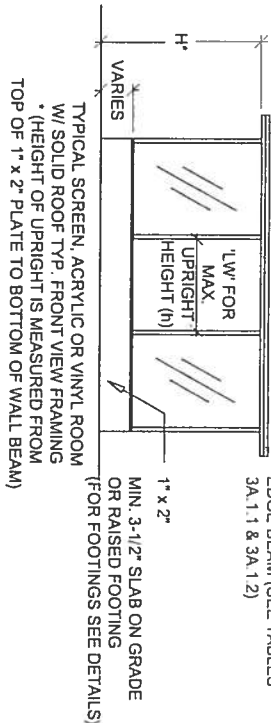
RIDGE BEAM (SEE TABLES 3A.1.4)



TYPICAL GABLE SOLID ROOF ENCLOSURE

SCALE: N.T.S.

EDGE BEAM (SEE TABLES 3A.1.1 & 3A.1.2)



NOTES:
ANCHOR 1" x 2" OPEN BACK EXTRUSION W/ 1/4" x 2-1/4" CONCRETE FASTENER MAX. OF 2'-0" O.C. AND W/ IN 6" EACH SIDE OF UPRIGHT ANCHOR 1" x 2" TO WOOD WALL W/ #10 x 2-1/2" S.M.S. W/ WASHERS OR #10 x 2-1/2" WASHER HEADED SCREW 2'-0" O.C. ANCHOR BEAM AND COLUMN INTERNALLY OR W/ ANCHOR CLIPS AND (2) #8 SCREWS W/ WASHERS @ EACH POINT OF CONNECTION.
SELECT FRONT WALL BEAM FROM TABLE USING LARGER LOAD WIDTH VALUE OF P/2 OR P/2 + O.H.
SELECT SCREEN ROOM FORTH WALL BEAM FROM TABLES 3A.1.3
ANCHORS BASED ON 120 MPH WIND VELOCITY. FOR HIGHER WIND ZONES USE THE FOLLOWING CONVERSION:

100 -123	130	140	150
#8	#10	#12	#12

TYPICAL SCREEN ROOM

SCALE: 1/8" = 1'-0"

SCREEN, ACRYLIC & VINYL ROOMS
ALUMINUM STRUCTURES DESIGN MANUAL
2004 FLORIDA BUILDING CODE
MAY 2004 EDITION
SECTION 3A DETAILS

Lawrence E. Bennett, P.E.
FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

PURSUANT TO PROVISIONS OF THE FLORIDA DEPARTMENT OF HIGHWAY SAFETY & MOTOR VEHICLES DIVISION OF MOTOR VEHICLES RULE 15C-2, THE SPAN TABLES, CONNECTION DETAILS, ANCHORING AND OTHER SPECIFICATIONS ARE DESIGNED TO BE MARRIED TO CONVENTIONALLY CONSTRUCTED HOMES AND / OR MANUFACTURED HOMES AND MOBILE HOMES CONSTRUCTED AFTER 1984.

THE DESIGNS AND SPANS SHOWN ON THESE DRAWINGS ARE BASED ON THE LOAD REQUIREMENTS FOR THE FLORIDA BUILDING CODE 2001 EDITION.

SEAL

SHEET

JOB NAME:

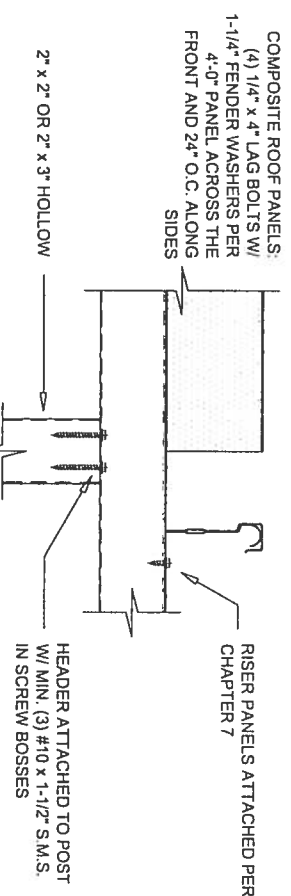
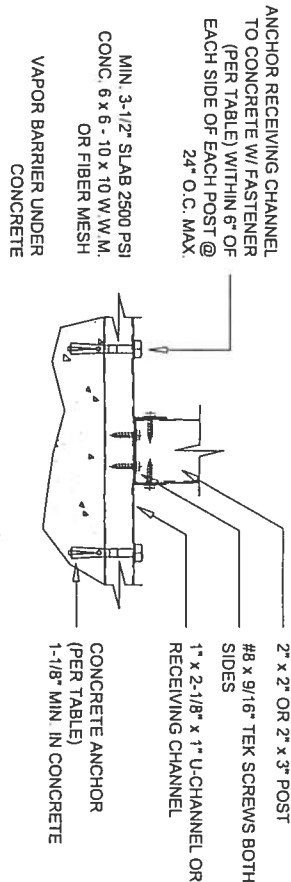
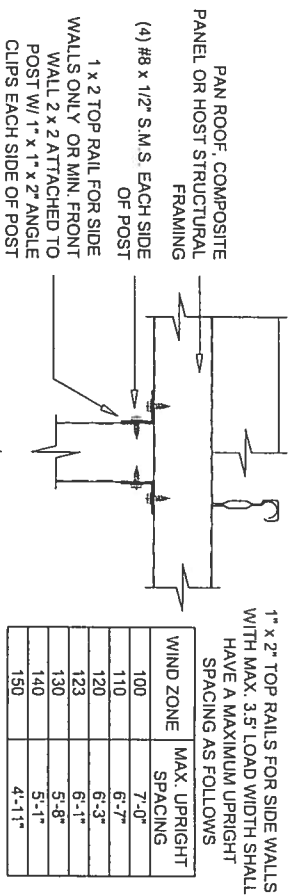
ADDRESS:

DRAWING FOR ONE PERMIT ONLY

OF

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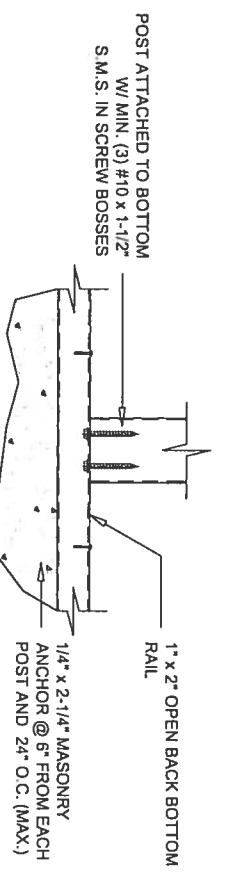
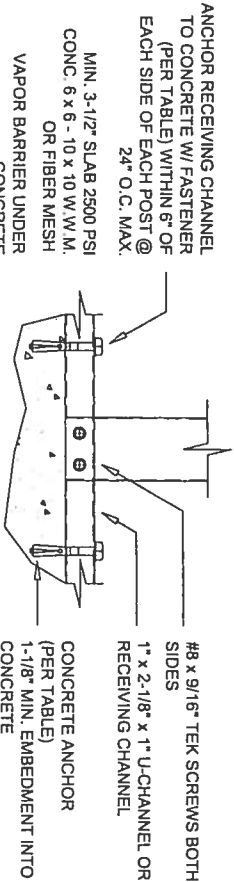
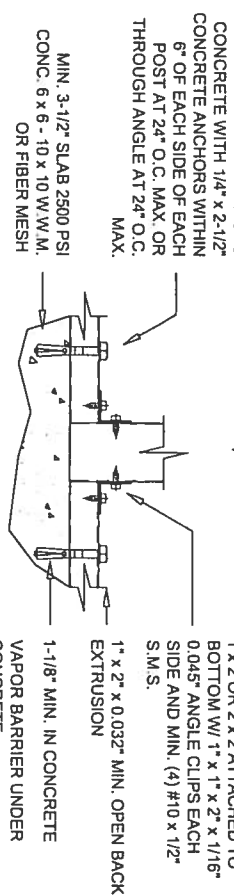
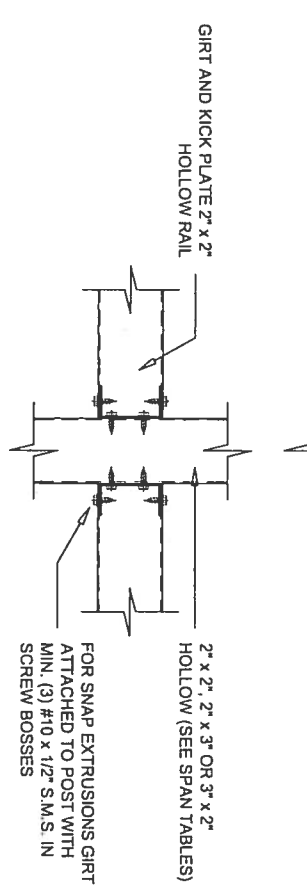
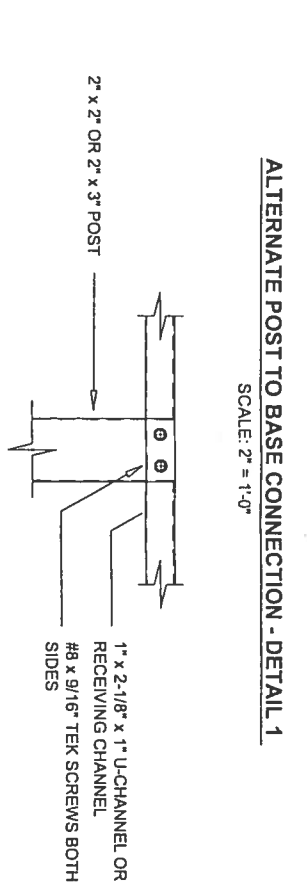
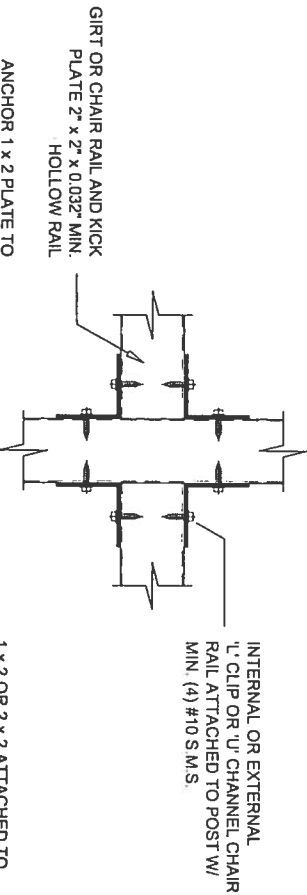
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INTERNAL OR EXTERNAL U-CLIP OR U-CHANNEL CHAIR RAIL ATTACHED TO POST W/ MIN. (4) #10 S.M.S.

ALTERNATE POST TO BASE CONNECTION - DETAIL 1

SCALE: 2" = 1'-0"

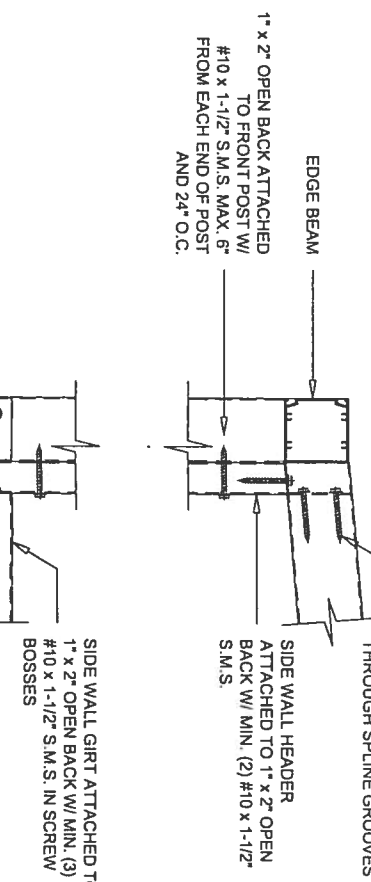
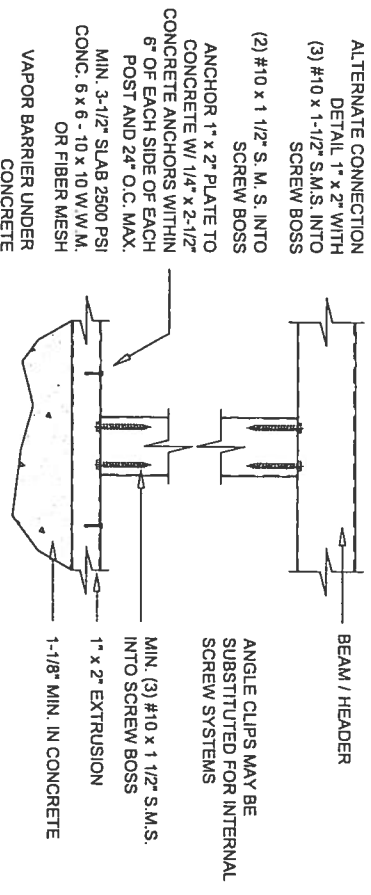


POST TO BASE, GIRT AND POST TO BEAM DETAIL

SCALE: 2" = 1'-0"

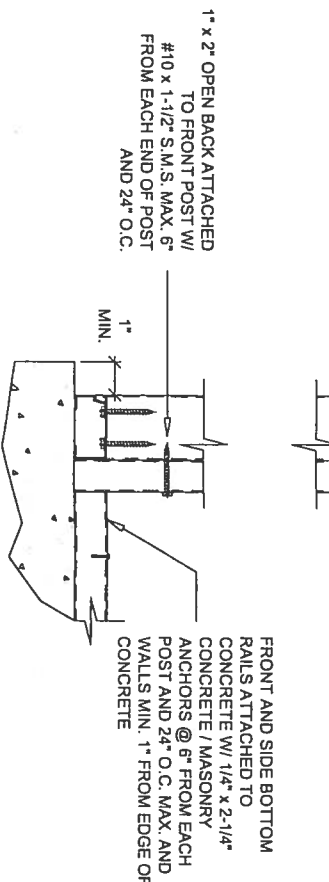
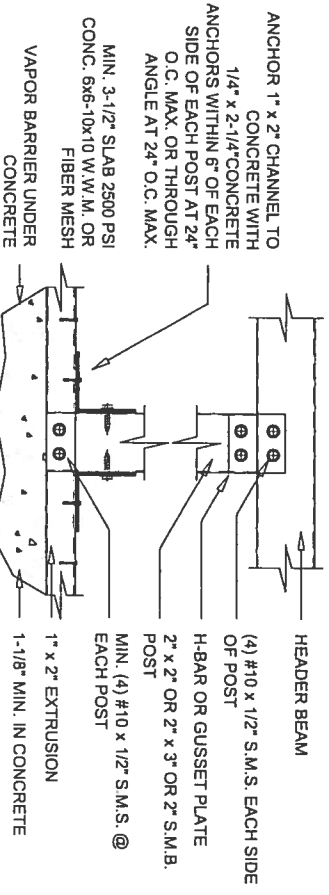
ALTERNATE POST TO BASE CONNECTION - DETAIL 2

SCALE: 2" = 1'-0"



ALTERNATE HOLLOW UPRIGHT TO BASE AND HOLLOW UPRIGHT TO BEAM DETAIL

SCALE: 2" = 1'-0"



ALTERNATE PATIO SECTION TO UPRIGHT AND PATIO SECTION TO BEAM DETAIL

SCALE: 2" = 1'-0"

TYPICAL UPRIGHT DETAIL

SCALE: 2" = 1'-0"

TYPICAL & ALTERNATE CORNER DETAIL

SCALE: 2" = 1'-0"

Table 3A.1.2-110 Allowable Edge Beam Spans - Snap Sections
for Screen, Acrylic or Vinyl Rooms

For 3 second wind gust at 110 MPH velocity; using design load of 11 #SF (36 #SF for Max. Cantilever)

Aluminum Alloy 6063 T-6

2" x 2" x 0.044" Snap Extrusion						2" x 3" x 0.045" Snap Extrusion					
Load Width (ft.)	Max. Span L / I (bending 'b' or deflection 'd')	1 & 2 Span	3 Span	4 Span	Max. Cantilever	Load Width (ft.)	Max. Span L / I (bending 'b' or deflection 'd')	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	6'-0" d	7'-5" d	7'-7" d	7'-7" d	1'-2" d	5	8'-1" d	10'-0" d	10'-2" d	10'-2" d	1'-7" d
6	5'-8" d	6'-11" d	7'-2" d	7'-2" d	1'-2" d	6	7'-7" d	9'-5" d	9'-7" d	9'-7" d	1'-6" d
7	5'-4" d	6'-8" d	6'-9" d	6'-9" d	1'-1" d	7	7'-3" d	8'-11" d	8'-11" d	8'-6" b	1'-5" d
8	5'-2" d	6'-4" d	6'-6" d	6'-6" d	1'-0" d	8	6'-11" d	8'-7" d	8'-7" d	8'-6" b	1'-5" d
9	4'-11" d	6'-2" d	6'-3" d	6'-3" d	0'-11" d	9	6'-8" d	8'-3" d	8'-3" d	8'-0" b	1'-4" d
10	4'-9" d	5'-11" d	5'-11" b	5'-11" b	0'-11" d	10	6'-5" d	7'-10" b	7'-10" b	7'-7" b	1'-3" d
11	4'-7" d	5'-8" d	5'-8" b	5'-8" b	0'-11" d	11	6'-3" d	7'-6" b	7'-6" b	7'-3" b	1'-3" d
12	4'-6" d	5'-7" d	5'-5" b	5'-5" b	0'-11" d	12	6'-1" d	7'-2" b	7'-2" b	6'-11" b	1'-2" d

2" x 4" x 0.045" Snap Extrusion					
Load Width (ft.)	Max. Span L / I (bending 'b' or deflection 'd')	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	10'-3" d	7'-5" d	7'-7" d	7'-7" d	2'-0" d
6	5'-8" d	7'-0" d	7'-2" d	7'-2" d	1'-11" d
7	5'-5" d	6'-8" d	6'-10" d	6'-10" d	1'-10" d
8	5'-2" d	6'-4" d	6'-6" d	6'-6" d	1'-9" d
9	4'-11" d	6'-2" d	6'-3" d	6'-3" d	1'-8" d
10	4'-9" d	5'-11" d	6'-0" d	6'-0" d	1'-7" d
11	4'-8" d	5'-9" d	5'-10" d	5'-10" d	1'-7" d
12	4'-6" d	5'-7" d	5'-8" d	5'-8" d	1'-6" d

Notes:

1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3A.1.2-120 Allowable Edge Beam Spans - Snap Sections
for Screen, Acrylic or Vinyl Rooms

For 3 second wind gust at 120 MPH velocity; using design load of 13 #SF (43 #SF for Max. Cantilever)

Aluminum Alloy 6063 T-6

2" x 2" x 0.044" Snap Extrusion						2" x 3" x 0.045" Snap Extrusion					
Load Width (ft.)	Max. Span L / I (bending 'b' or deflection 'd')	1 & 2 Span	3 Span	4 Span	Max. Cantilever	Load Width (ft.)	Max. Span L / I (bending 'b' or deflection 'd')	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	5'-8" d	7'-0" d	7'-2" d	7'-2" d	1'-2" d	5	7'-8" d	9'-5" d	9'-5" d	9'-8" d	1'-6" d
6	5'-4" d	6'-7" d	6'-9" d	6'-9" d	1'-1" d	6	7'-2" d	8'-11" d	8'-11" d	8'-0" b	1'-5" d
7	5'-1" d	6'-3" d	6'-5" d	6'-5" d	1'-0" d	7	6'-10" d	8'-5" d	8'-4" d	8'-4" b	1'-4" d
8	4'-10" d	6'-0" d	6'-1" b	6'-1" b	0'-11" d	8	6'-7" d	8'-1" d	7'-10" b	7'-10" b	1'-4" d
9	4'-8" d	5'-9" d	5'-9" b	5'-9" b	0'-11" d	9	6'-4" d	7'-6" b	7'-4" b	7'-4" b	1'-3" d
10	4'-6" d	5'-7" d	5'-6" b	5'-6" b	0'-11" d	10	6'-1" d	7'-3" b	6'-11" b	6'-11" b	1'-3" d
11	4'-4" d	5'-5" b	5'-2" b	5'-2" b	0'-10" d	11	5'-11" d	6'-11" b	6'-8" b	6'-8" b	1'-2" d
12	4'-3" d	5'-2" b	4'-11" b	4'-11" b	0'-10" d	12	5'-9" d	6'-7" b	6'-5" b	6'-5" b	1'-2" d

2" x 3" x 0.045" Snap Extrusion					
Load Width (ft.)	Max. Span L / I (bending 'b' or deflection 'd')	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	9'-8" d	7'-1" d	7'-2" d	7'-2" d	1'-11" d
6	5'-4" d	6'-8" d	6'-9" d	6'-9" d	1'-10" d
7	5'-1" d	6'-4" d	6'-5" d	6'-5" d	1'-9" d
8	4'-11" d	6'-0" d	6'-2" d	6'-2" d	1'-8" d
9	4'-8" d	5'-10" d	5'-11" d	5'-11" d	1'-7" d
10	4'-6" d	5'-7" d	5'-6" d	5'-6" d	1'-6" d
11	4'-5" d	5'-5" d	5'-4" d	5'-4" d	1'-6" d
12	4'-3" d	5'-3" d	5'-4" d	5'-4" d	1'-5" d

Notes:

1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3A.1.2-130 Allowable Edge Beam Spans - Snap Sections
for Screen, Acrylic or Vinyl Rooms

For 3 second wind gust at 130 MPH velocity; using design load of 15 #SF (50 #SF for Max. Cantilever)

Aluminum Alloy 6063 T-6

2" x 2" x 0.045" Snap Extrusion						2" x 3" x 0.045" Snap Extrusion						
Load Width (ft.)	Max. Span L / I (bending 'b' or deflection 'd')	Max. Span L / I (bending 'b' or deflection 'd')				Max. Cantilever	Load Width (ft.)	Max. Span L / I (bending 'b' or deflection 'd')	Max. Span L / I (bending 'b' or deflection 'd')			
		1 & 2 Span	3 Span	4 Span	Max. Cantilever				1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	9'-3" d	6'-9" d	6'-10" d	1'-10" d	1'-10" d	5	7'-4" d	9'-0" d	9'-2" d	1'-5" d	1'-5" d	
6	5'-1" d	6'-4" d	6'-5" d	1'-9" d	1'-9" d	6	6'-10" d	8'-6" d	8'-5" b	1'-4" d	1'-4" d	
7	4'-10" d	6'-0" d	6'-2" d	1'-8" d	1'-8" d	7	6'-8" d	8'-1" b	7'-9" b	1'-4" d	1'-4" d	
8	4'-8" d	5'-9" d	5'-10" d	1'-7" d	1'-7" d	8	6'-3" d	7'-6" b	7'-3" b	1'-3" d	1'-3" d	
9	4'-6" d	5'-6" d	5'-8" d	1'-6" d	1'-6" d	9	6'-0" d	7'-1" b	6'-10" b	1'-2" d	1'-2" d	
10	4'-4" d	5'-4" d	5'-5" d	1'-5" d	1'-5" d	10	5'-10" d	6'-9" b	6'-6" b	1'-2" d	1'-2" d	
11	4'-2" d	5'-2" d	5'-3" d	1'-5" d	1'-5" d	11	5'-7" d	6'-5" b	6'-3" b	1'-1" d	1'-1" d	
12	4'-1" d	5'-0" d	5'-1" d	1'-4" d	1'-4" d	12	5'-5" d	6'-2" b	5'-11" b	1'-1" d	1'-1" d	

Notes:

1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3A.1.2-140A Allowable Edge Beam Spans - Snap Sections
for Screen, Acrylic or Vinyl Rooms

For 3 second wind gust at 140A MPH velocity; using design load of 17 #SF (58 #SF for Max. Cantilever)

Aluminum Alloy 6063 T-6

2" x 2" x 0.044" Snap Extrusion						2" x 3" x 0.045" Snap Extrusion					
Load Width (ft.)	Max. Span L / I (bending 'b' or deflection 'd')	1 & 2 Span	3 Span	4 Span	Max. Cantilever	Load Width (ft.)	Max. Span L / I (bending 'b' or deflection 'd')	1 & 2 Span	3 Span	4 Span	Max. Cantilever
5	5'-2" d	6'-5" d	6'-7" d	6'-7" d	1'-0" d	5	7'-0" d	8'-8" d	8'-8" d	8'-8" d	1'-5" d
6	4'-11" d	6'-1" d	6'-2" b	6'-2" b	0'-11" d	6	6'-7" d	8'-2" d	7'-11" b	7'-11" b	1'-4" d
7	4'-8" d	5'-9" d	5'-8" b	5'-8" b	0'-11" d	7	6'-3" d	7'-7" b	7'-4" b	7'-4" b	1'-3" d
8	4'-5" d	5'-6" d	5'-4" b	5'-4" b	0'-10" d	8	5'-11" d	7'-1" b	6'-10" b	6'-10" b	1'-2" d
9	4'-3" d	5'-2" b	5'-0" b	5'-0" b	0'-10" d	9	5'-9" d	6'-8" b	6'-5" b	6'-5" b	1'-2" d
10	4'-2" d	4'-11" b	4'-9" b	4'-9" b	0'-10" d	10	5'-7" d	6'-4" b	6'-1" b	6'-1" b	1'-1" d
11	3'-11" d	4'-9" b	4'-7" b	4'-7" b	0'-9" d	11	5'-5" d	6'-0" b	5'-10" b	5'-10" b	1'-1" d
12	3'-11" d	4'-6" b	4'-4" b	4'-4" b	0'-9" d	12	5'-2" b	5'-9" b	5'-7" b	5'-7" b	1'-0" d

Notes:

1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3A.1.3-110

Allowable Beam Spans for Miscellaneous Framing Beams for Screen, Acrylic or Vinyl Rooms
For 3 second wind gust at 110 MPH velocity; using design load of 11 #/SF

Aluminum Alloy 6063 T-6									
Hollow and Single Self-Mating Beams		Tributary Load Width							
2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
Allowable Span L / bending b or deflection d ¹									
2" x 4" x 0.050" Hollow	12'-2" d	11'-6" d	10'-11" d	10'-5" d	9'-8" d	9'-5" d	9'-1" d	8'-3" d	8'-3" d
2" x 5" x 0.062" Hollow	15'-9" d	14'-10" d	14'-1" d	13'-6" d	12'-11" d	12'-6" d	12'-1" d	11'-5" d	11'-2" d
2" x 4" x 0.044" x 0.100"	13'-8" d	12'-10" d	12'-2" d	11'-8" d	10'-6" d	10'-2" d	9'-11" d	9'-6" d	9'-5" d
2" x 5" x 0.050" x 0.100"	16'-11" d	15'-11" d	15'-1" d	14'-5" d	13'-11" d	13'-5" d	12'-11" d	12'-3" d	11'-11" d
2" x 6" x 0.050" x 0.120"	19'-9" d	18'-7" d	17'-8" d	16'-11" d	16'-3" d	15'-8" d	15'-2" d	14'-5" d	14'-0" d
2" x 7" x 0.055" w/ insert	22'-6" d	21'-2" d	20'-2" d	19'-3" d	18'-6" d	17'-10" d	17'-4" d	16'-5" d	15'-7" d
2" x 7" x 0.055" w/ insert	27'-3" d	25'-7" d	24'-4" d	23'-4" d	22'-4" d	21'-7" d	20'-11" d	19'-9" d	19'-4" d
2" x 8" x 0.072" x 0.224"	27'-11" d	26'-3" d	24'-11" d	23'-10" d	22'-11" d	22'-2" d	21'-5" d	20'-10" d	19'-10" d
2" x 9" x 0.072" x 0.224"	30'-7" d	28'-10" d	27'-4" d	26'-2" d	25'-2" d	24'-4" d	23'-7" d	22'-10" d	21'-3" d
2" x 9" x 0.082" x 0.306"	31'-9" d	29'-10" d	28'-4" d	27'-2" d	26'-1" d	25'-2" d	24'-5" d	23'-8" d	22'-0" d
2" x 10" x 0.092" x 0.369"	38'-2" d	35'-11" d	34'-1" d	32'-8" d	31'-5" d	30'-4" d	29'-4" d	28'-6" d	27'-1" d

Double Self-Mating Beams									
2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
Allowable Span L / bending b or deflection d ¹									
2" x 8" x 0.072" x 0.224"	35'-2" d	33'-1" d	31'-5" d	30'-1" d	28'-11" d	27'-11" d	27'-0" d	26'-3" d	25'-7" d
2" x 9" x 0.072" x 0.224"	38'-7" d	36'-4" d	34'-6" d	32'-11" d	31'-9" d	30'-7" d	29'-8" d	28'-10" d	28'-1" d
2" x 9" x 0.082" x 0.306"	41'-1" d	38'-8" d	36'-8" d	35'-1" d	33'-9" d	32'-7" d	31'-7" d	30'-8" d	29'-10" d
2" x 10" x 0.092" x 0.369"	48'-1" d	45'-3" d	42'-11" d	41'-1" d	39'-6" d	38'-2" d	36'-11" d	35'-11" d	34'-11" d

Table 3A.1.3-120

Allowable Beam Spans for Miscellaneous Framing Beams for Screen, Acrylic or Vinyl Rooms
For 3 second wind gust at 120 MPH velocity; using design load of 13 #/SF

Aluminum Alloy 6063 T-6									
Hollow and Single Self-Mating Beams		Tributary Load Width							
2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
Allowable Span L / bending b or deflection d ¹									
2" x 4" x 0.050" Hollow	11'-7" d	10'-10" d	10'-4" d	9'-10" d	9'-6" d	9'-2" d	8'-11" d	8'-5" d	8'-2" d
2" x 5" x 0.062" Hollow	14'-10" d	14'-0" d	13'-4" d	12'-9" d	12'-3" d	11'-10" d	11'-5" d	11'-1" d	10'-7" d
2" x 4" x 0.044" x 0.100"	12'-11" d	12'-2" d	11'-6" d	11'-0" d	10'-7" d	10'-3" d	9'-11" d	9'-6" d	9'-2" d
2" x 5" x 0.050" x 0.100"	15'-11" d	15'-0" d	14'-3" d	13'-8" d	13'-2" d	12'-8" d	11'-11" d	11'-7" d	11'-4" d
2" x 6" x 0.050" x 0.120"	18'-8" d	17'-7" d	16'-9" d	16'-11" d	16'-5" d	16'-1" d	15'-11" d	15'-7" d	15'-3" d
2" x 7" x 0.055" w/ insert	21'-4" d	20'-1" d	19'-0" d	18'-3" d	17'-6" d	16'-5" d	15'-11" d	15'-6" d	15'-1" d
2" x 7" x 0.055" w/ insert	25'-9" d	24'-3" d	23'-0" d	22'-0" d	21'-2" d	20'-5" d	19'-9" d	18'-9" d	18'-3" d
2" x 8" x 0.072" x 0.224"	26'-5" d	24'-10" d	23'-7" d	22'-7" d	22'-1" d	21'-6" d	21'-1" d	20'-7" d	20'-1" d
2" x 8" x 0.072" x 0.224"	28'-11" d	27'-3" d	26'-11" d	25'-11" d	24'-4" d	23'-10" d	22'-11" d	22'-5" d	22'-1" d
2" x 9" x 0.072" x 0.224"	30'-0" d	28'-3" d	26'-10" d	25'-6" d	24'-8" d	23'-10" d	23'-1" d	22'-5" d	22'-0" d
2" x 9" x 0.082" x 0.306"	36'-1" d	33'-11" d	32'-3" d	30'-10" d	29'-8" d	28'-8" d	27'-9" d	26'-11" d	25'-0" d
2" x 10" x 0.092" x 0.369"	43'-1" d	40'-8" d	38'-11" d	37'-5" d	36'-1" d	34'-11" d	33'-11" d	32'-3" d	31'-6" d

Double Self-Mating Beams									
2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
Allowable Span L / bending b or deflection d ¹									
2" x 8" x 0.072" x 0.224"	33'-3" d	31'-4" d	29'-9" d	28'-5" d	27'-4" d	26'-5" d	25'-7" d	24'-10" d	23'-7" d
2" x 8" x 0.072" x 0.224"	36'-5" d	34'-4" d	32'-7" d	31'-2" d	29'-11" d	28'-11" d	28'-1" d	27'-3" d	26'-5" d
2" x 9" x 0.072" x 0.224"	38'-10" d	36'-5" d	34'-8" d	33'-2" d	31'-11" d	30'-10" d	29'-10" d	28'-3" d	27'-7" d
2" x 9" x 0.082" x 0.306"	45'-6" d	42'-10" d	40'-8" d	38'-11" d	37'-5" d	36'-1" d	34'-11" d	33'-11" d	32'-3" d

Table 3A.1.3-130

Allowable Beam Spans for Miscellaneous Framing Beams for for Screen, Acrylic or Vinyl Rooms
For 3 second wind gust at 130 MPH velocity; using design load of 15 #/SF

Aluminum Alloy 6063 T-6									
Hollow and Single Self-Mating Beams		Tributary Load Width							
2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
Allowable Span L / bending b or deflection d ¹									
2" x 4" x 0.050" Hollow	11'-0" d	10'-4" d	9'-10" d	9'-5" d	9'-1" d	8'-8" d	8'-6" d	8'-3" d	8'-0" d
2" x 5" x 0.050" Hollow	14'-2" d	13'-4" d	12'-8" d	12'-2" d	11'-8" d	11'-3" d	10'-11" d	10'-7" d	10'-3" d
2" x 4" x 0.044" x 0.100"	12'-4" d	11'-7" d	10'-11" d	10'-6" d	10'-1" d	9'-9" d	9'-5" d	9'-2" d	8'-11" d
2" x 5" x 0.062" x 0.100"	15'-3" d	14'-4" d	13'-7" d	13'-0" d	12'-6" d	12'-1" d	11'-9" d	11'-5" d	11'-1" d
2" x 6" x 0.050" x 0.120"	17'-10" d	16'-9" d	16'-3" d	15'-11" d	15'-3" d	14'-8" d	14'-2" d	13'-4" d	12'-4" d
2" x 7" x 0.055" w/ insert	20'-4" d	19'-1" d	18'-2" d	17'-4" d	16'-8" d	16'-1" d	15'-7" d	15'-2" d	14'-5" d
2" x 7" x 0.055" w/ insert	24'-6" d	23'-1" d	21'-11" d	20'-11" d	20'-2" d	19'-6" d	18'-10" d	18'-4" d	17'-10" d
2" x 8" x 0.072" x 0.224"	25'-2" d	23'-8" d	22'-6" d	21'-6" d	20'-8" d	19'-11" d	19'-4" d	18'-10" d	17'-10" d
2" x 9" x 0.072" x 0.224"	27'-7" d	25'-11" d	24'-8" d	23'-7" d	22'-11" d	21'-3" d	20'-7" d	20'-1" d	19'-5" d
2" x 9" x 0.082" x 0.306"	28'-7" d	26'-11" d	25'-7" d	24'-6" d	23'-6" d	22'-9" d	22'-0" d	21'-5" d	20'-4" d
2" x 10" x 0.092" x 0.369"	34'-5" d	32'-5" d	30'-9" d	29'-5" d	28'-4" d	27'-4" d	26'-8" d	25'-9" d	25'-0" d

Double Self-Mating Beams									
2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
Allowable Span L / bending b or deflection d ¹									
2" x 8" x 0.072" x 0.224"	31'-8" d	29'-10" d	28'-4" d	27'-1" d	26'-1" d	25'-2" d	24'-5" d	23'-8" d	23'-1" d
2" x 9" x 0.072" x 0.224"	34'-9" d	32'-9" d	31'-1" d	29'-9" d	28'-7" d	27'-7" d	26'-9" d	26'-1" d	25'-1" d
2" x 9" x 0.082" x 0.306"	37'-0" d	34'-10" d	33'-1" d	31'-8" d	30'-5" d	29'-5" d	28'-6" d	27'-8" d	26'-3" d
2" x 10" x 0.092" x 0.369"	43'-4" d	40'-10" d	38'-9" d	37'-1" d	35'-8" d	34'-5" d	33'-4" d	32'-5" d	31'-6" d

- Notes:
1. It is recommended that the engineer be consulted on any miscellaneous framing beam that spans more than 40'
 2. Spans are based on 130 M.P.H. wind load plus dead load for framing.
 3. Span is measured from center of connection to fascia or wall connection.
 4. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
 5. Spans may be interpolated.

Table 3A.1.3-140A

Allowable Beam Spans for Miscellaneous Framing Beams for for Screen, Acrylic or Vinyl Rooms
For 3 second wind gust at 140A MPH velocity; using design load of 17 #/SF

Aluminum Alloy 6063 T-6									
Hollow and Single Self-Mating Beams		Tributary Load Width							
2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
Allowable Span L / bending b or deflection d ¹									
2" x 4" x 0.050" Hollow	10'-7" d	9'-11" d	9'-5" d	9'-0" d	8'-8" d	8'-5" d	8'-1" d	7'-11" d	7'-8" d
2" x 5" x 0.050" Hollow	13'-7" d	12'-10" d	12'-2" d	11'-8" d	11'-2" d	10'-6" d	10'-2" d	9'-11" d	9'-8" d
2" x 4" x 0.044" x 0.100"	11'-9" d	11'-1" d	10'-6" d	10'-1" d	9'-8" d	9'-4" d	9'-1" d	8'-10" d	8'-7" d
2" x 5" x 0.062" x 0.100"	14'-7" d	13'-9" d	13'-1" d	12'-6" d	12'-0" d	11'-7" d	11'-3" d	10'-11" d	10'-8" d
2" x 6" x 0.050" x 0.120"	17'-1" d	16'-1" d	15'-3" d	14'-7" d	14'-1" d	13'-7" d	13'-2" d	12'-9" d	12'-5" d
2" x 7" x 0.055" w/ insert	19'-6" d	18'-2" d	17'-5" d	16'-8" d	16'-0" d	15'-6" d	15'-1" d	14'-7" d	14'-2" d
2" x 7" x 0.055" w/ insert	23'-6" d	22'-2" d	21'-0" d	20'-1" d	19'-4" d	18'-8" d	18'-1" d	17'-7" d	17'-1" d
2" x 8" x 0.072" x 0.224"	24'-2" d	22'-9" d	21'-7" d	20'-8" d	19'-10" d	19'-2" d	18'-7" d	18'-0" d	17'-11" d
2" x 9" x 0.072" x 0.224"	26'-5" d	24'-11" d	23'-8" d	22'-8" d	21'-9" d	21'-0" d	20'-4" d	19'-9" d	18'-9" d
2" x 9" x 0.082" x 0.306"	27'-6" d	25'-10" d	24'-6" d	23'-6" d	22'-7" d	21'-9" d	21'-1" d	20'-6" d	19'-11" d
2" x 10" x 0.092" x 0.369"	33'-0" d	31'-1" d	29'-6" d	28'-3" d	27'-2" d	26'-2" d	25'-5" d	24'-8" d	23'-5" d

Double Self-Mating Beams									
2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"
Allowable Span L / bending b or deflection d ¹									
2" x 8" x 0.072" x 0.224"	30'-5" d	28'-7" d	27'-2" d	25'-11" d	24'-11" d	24'-2" d	23'-5" d	22'-9" d	21'-7" d
2" x 9" x 0.072" x 0.224"	33'-4" d	31'-5" d	29'-10" d	28'-6" d	27'-5" d	26'-6" d	25'-8" d	24'-11" d	24'-3" d
2" x 9" x 0.082" x 0.306"	35'-6" d	33'-5" d	31'-9" d	30'-4" d	29'-2" d	28'-2" d	27'-4" d	26'-6" d	25'-2" d
2" x 10" x 0.092" x 0.369"	41'-7" d	39'-2" d	37'-2" d	35'-7" d	34'-2" d	33'-0" d	31'-11" d	31'-1" d	30'-3" d

Table 3A.1.4-110

Allowable Spans for Ridge Beams with Self Mating Beams for Screen, Acrylic or Vinyl Rooms
For 3 second wind gust at 110 MPH velocity; using design load of 11 #/SF

for Screen, Acrylic or Vinyl Rooms									
For 3 second wind gust at 110 MPH velocity; using design load of 11 #/SF									
Self Mating Sections	Triblary Load Width W = Purlin Spacing								
	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	
2" x 4" x 0.044 x 0.100"	14'-6" d	13'-6" b	12'-6" b	11'-8" b	11'-0" b	10'-5" b	9'-11" b	9'-6" b	
2" x 5" x 0.050" x 0.100"	17'-11" d	16'-8" b	15'-5" b	14'-5" b	13'-7" b	12'-11" b	12'-4" b	11'-9" b	
2" x 6" x 0.050" x 0.120"	21'-0" d	19'-3" b	17'-10" b	16'-8" b	15'-9" b	14'-3" b	13'-6" b	13'-0" b	
2" x 7" x 0.055" x 0.120"	23'-9" b	21'-9" b	20'-1" b	18'-10" b	17'-9" b	16'-10" b	16'-0" b	15'-4" b	
2" x 7" x 0.055" w/insf	28'-11" d	27'-3" d	25'-11" d	24'-3" d	23'-7" d	22'-5" d	21'-4" d	20'-5" d	
2" x 8" x 0.072 x 0.224"	29'-6" d	27'-11" d	25'-11" b	24'-3" b	22'-11" b	21'-9" b	20'-9" b	19'-10" b	
2" x 9" x 0.072 x 0.224"	32'-7" d	30'-5" d	28'-2" d	26'-4" d	24'-10" d	23'-7" d	22'-6" d	21'-6" d	
2" x 9" x 0.082" x 0.310"	33'-9" d	31'-9" d	30'-2" d	28'-10" d	27'-3" d	25'-10" d	24'-6" d	23'-7" d	
2" x 10" x 0.092" x 0.369"	40'-7" d	38'-3" d	36'-4" d	34'-9" d	32'-9" d	31'-1" d	29'-6" d	28'-5" d	

Table 3A.2.1 Allowable Upright Heights, Chair Rail Spans or Header Spans for Screen, Acrylic or Vinyl Rooms

Aluminum Alloy 6063 T-6												
For 3 second wind gust at 110 MPH velocity; using design load of 11 #/SF												
Sections	Tributary Load Width W = Purlin Spacing											
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"
2" x 2" x 0.044"	Hollow	9'-3" b	8'-9" b	8'-2" b	7'-6" b	7'-4" b	6'-11" b	6'-8" b	6'-5" b	6'-2" b	5'-11" b	5'-8" b
2" x 2" x 0.055"	Hollow	10'-3" b	9'-6" b	8'-1" b	7'-4" b	7'-1" b	6'-5" b	6'-2" b	6'-1" b	6'-2" b	6'-6" b	6'-6" b
3" x 2" x 0.045"	Hollow	11'-3" b	10'-5" b	9'-9" b	9'-3" b	8'-8" b	8'-4" b	8'-1" b	7'-6" b	7'-5" b	7'-2" b	7'-2" b
3" x 2" x 0.070"	Hollow	12'-9" d	12'-2" d	11'-7" d	10'-11" b	10'-5" b	9'-11" b	9'-6" b	9'-2" b	8'-10" b	8'-6" b	8'-6" b
2" x 3" x 0.045"	Hollow	12'-9" b	11'-9" b	11'-0" b	10'-5" b	10'-5" b	9'-11" b	9'-6" b	9'-2" b	8'-11" b	8'-1" b	8'-1" b
2" x 4" x 0.050"	Hollow	16'-3" b	15'-1" b	14'-1" b	13'-5" b	12'-7" b	12'-0" b	11'-6" b	11'-0" b	10'-8" b	10'-3" b	10'-3" b
2" x 4" x 0.065"	S.M.B.	19'-1" b	17'-8" b	16'-6" b	15'-7" b	14'-9" b	14'-1" b	13'-6" b	12'-11" b	12'-6" b	12'-1" b	12'-1" b
2" x 5" x 0.050"	S.M.B.	23'-7" b	21'-10" b	20'-5" b	19'-3" b	18'-3" b	17'-5" b	16'-8" b	16'-0" b	15'-1" b	14'-11" b	14'-11" b
2" x 6" x 0.050"	S.M.B.	26'-1" b	24'-2" b	22'-7" b	21'-3" b	20'-2" b	19'-3" b	18'-5" b	17'-9" b	17'-5" b	16'-6" b	16'-6" b
2" x 2" x 0.044"	Snap	11'-3" b	10'-5" b	9'-9" b	9'-2" b	8'-6" b	8'-3" b	7'-11" b	7'-7" b	7'-4" b	7'-1" b	7'-1" b
2" x 3" x 0.044"	Snap	14'-4" b	13'-4" b	12'-5" b	11'-9" b	11'-2" b	10'-7" b	10'-2" b	9'-9" b	9'-5" b	9'-1" b	9'-1" b
2" x 4" x 0.045"	Snap	17'-7" b	16'-3" b	15'-3" b	14'-4" b	13'-7" b	12'-11" b	12'-5" b	11'-11" b	11'-6" b	11'-1" b	11'-1" b

Notes:
1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3A.2.2 Allowable Upright Heights, Chair Rail Spans or Header Spans for Screen, Acrylic or Vinyl Rooms

Aluminum Alloy 6063 T-6												
For 3 second wind gust at 130 MPH velocity; using design load of 15 #/SF												
Sections	Tributary Load Width W = Purlin Spacing											
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"
2" x 2" x 0.044"	Hollow	8'-1" b	7'-6" b	6'-11" b	6'-7" b	6'-3" b	5'-11" b	5'-8" b	5'-6" b	5'-3" b	5'-1" b	5'-1" b
2" x 2" x 0.055"	Hollow	8'-10" b	8'-2" b	7'-7" b	7'-2" b	6'-10" b	6'-6" b	6'-3" b	5'-11" b	5'-9" b	5'-7" b	5'-7" b
3" x 2" x 0.045"	Hollow	9'-8" b	8'-11" b	8'-4" b	7'-11" b	7'-6" b	7'-2" b	6'-10" b	6'-7" b	6'-4" b	6'-1" b	6'-1" b
3" x 2" x 0.070"	Hollow	11'-6" b	10'-9" b	10'-4" b	9'-5" b	8'-11" b	8'-6" b	8'-2" b	7'-10" b	7'-6" b	7'-3" b	7'-3" b
2" x 3" x 0.045"	Hollow	10'-11" b	10'-1" b	9'-5" b	8'-11" b	8'-5" b	8'-1" b	7'-8" b	7'-5" b	7'-2" b	6'-11" b	6'-11" b
2" x 4" x 0.050"	Hollow	13'-11" b	12'-11" b	12'-1" b	11'-4" b	10'-9" b	10'-3" b	9'-10" b	9'-5" b	9'-1" b	8'-10" b	8'-10" b
2" x 4" x 0.065"	S.M.B.	16'-4" b	15'-1" b	14'-2" b	13'-4" b	12'-8" b	12'-1" b	11'-6" b	11'-1" b	10'-8" b	10'-4" b	10'-4" b
2" x 5" x 0.050"	S.M.B.	20'-2" b	18'-8" b	17'-6" b	16'-6" b	15'-8" b	14'-11" b	14'-3" b	13'-9" b	13'-3" b	12'-9" b	12'-9" b
2" x 6" x 0.050"	S.M.B.	22'-4" b	20'-9" b	19'-4" b	18'-3" b	17'-3" b	16'-6" b	15'-9" b	15'-2" b	14'-7" b	14'-1" b	14'-1" b
2" x 2" x 0.044"	Snap	9'-7" b	8'-11" b	8'-4" b	7'-10" b	7'-5" b	7'-1" b	6'-9" b	6'-6" b	6'-3" b	6'-1" b	6'-1" b
2" x 3" x 0.045"	Snap	12'-4" b	11'-5" b	10'-6" b	10'-1" b	9'-6" b	9'-1" b	8'-8" b	8'-4" b	8'-1" b	7'-9" b	7'-9" b
2" x 4" x 0.045"	Snap	15'-1" b	13'-11" b	13'-0" b	12'-4" b	11'-6" b	11'-1" b	10'-8" b	10'-3" b	9'-10" b	9'-6" b	9'-6" b

For 3 second wind gust at 140A MPH velocity; using design load of 17 #/SF												
Sections	Tributary Load Width W = Purlin Spacing											
	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	7'-6"	8'-0"	8'-6"
2" x 2" x 0.044"	Hollow	7'-7" b	7'-0" b	6'-7" b	6'-2" b	5'-10" b	5'-7" b	5'-4" b	5'-2" b	4'-11" b	4'-9" b	4'-9" b
2" x 2" x 0.055"	Hollow	8'-3" b	7'-8" b	7'-2" b	6'-9" b	6'-5" b	6'-1" b	5'-10" b	5'-7" b	5'-5" b	5'-3" b	5'-3" b
3" x 2" x 0.045"	Hollow	9'-1" b	8'-5" b	7'-10" b	7'-5" b	7'-0" b	6'-8" b	6'-5" b	6'-2" b	5'-11" b	5'-9" b	5'-9" b
3" x 2" x 0.070"	Hollow	10'-10" b	10'-0" b	9'-4" b	8'-10" b	8'-5" b	7'-11" b	7'-8" b	7'-4" b	7'-1" b	6'-10" b	6'-10" b
2" x 3" x 0.045"	Hollow	11'-3" b	10'-5" b	9'-9" b	9'-2" b	8'-8" b	8'-4" b	7'-11" b	7'-8" b	7'-4" b	7'-1" b	7'-1" b
2" x 4" x 0.050"	Hollow	13'-1" b	12'-1" b	11'-4" b	10'-8" b	10'-1" b	9'-8" b	9'-3" b	8'-11" b	8'-7" b	8'-3" b	8'-3" b
2" x 4" x 0.065"	S.M.B.	18'-4" b	16'-2" b	14'-2" b	13'-3" b	12'-8" b	11'-11" b	11'-4" b	10'-10" b	10'-5" b	10'-0" b	9'-8" b
2" x 5" x 0.050"	S.M.B.	18'-11" b	17'-7" b	16'-5" b	15'-6" b	14'-8" b	14'-0" b	13'-5" b	12'-11" b	12'-5" b	11'-11" b	11'-11" b
2" x 6" x 0.050"	S.M.B.	20'-11" b	19'-5" b	18'-2" b	17'-1" b	16'-3" b	15'-6" b	14'-10" b	14'-3" b	13'-9" b	13'-3" b	13'-3" b
2" x 2" x 0.044"	Snap	9'-0" b	8'-4" b	7'-10" b	7'-4" b	6'-11" b	6'-8" b	6'-5" b	6'-2" b	5'-11" b	5'-8" b	5'-8" b
2" x 3" x 0.045"	Snap	11'-7" b	10'-8" b	10'-0" b	9'-5" b	8'-11" b	8'-6" b	8'-2" b	7'-10" b	7'-7" b	7'-4" b	7'-4" b
2" x 4" x 0.045"	Snap	14'-2" b	13'-1" b	12'-3" b	11'-7" b	10'-11" b	10'-5" b	10'-0" b	9'-7" b	9'-3" b	8'-11" b	8'-11" b

Notes:
1. Above spans do not include length of knee brace. Add horizontal distance from upright to center of brace to beam connection to the above spans for total beam spans.
2. Spans may be interpolated.

Table 3A.3 Schedule of Post to Beam Size and Number of Thru Bolts Required

Beam Size		Minimum Post Size	Alternate Post Size	# Thru-Bolts @ L=D+1/2"		Minimum Knee Brace*	Min. # Knee Brace Screws
				1/4"	3/8"		
2"x4"x0.050" Hollow		3"x3"x0.093"	2"x3"x0.050"	2	-	2"x3"x0.050"	(3) #8
Self Mating Beams							
2"x4"x0.040"x0.100"		3"x3"x0.093"	2"x3"x0.050"	2	-	2"x3"x0.050"	(3) #8
2"x5"x0.050"x0.100"		3"x3"x0.093"	2"x3"x0.050"	2	-	2"x3"x0.050"	(3) #8
2"x6"x0.050"x0.120"		3"x3"x0.093"	2"x3"x0.050"	2	-	2"x3"x0.050"	(3) #10
2"x7"x0.055"x0.120"		3"x3"x0.093"	2"x3"x0.050"	2	-	2"x3"x0.050"	(3) #10
2"x7"x0.055" w/insert		3"x3"x0.093"	2"x3"x0.050"	2	-	2"x3"x0.050"	(3) #10
2"x8"x0.072"x0.224"		3"x3"x0.093"	2"x4"x0.050"	3	2	2"x4"x0.050"	(3) #12
2"x8"x0.072"x0.224"		3"x3"x0.093"	2"x5"x0.050"x0.100"	3	3	2"x5"x0.050"x0.100"	(3) #14
2"x9"x0.082"x0.306"		3"x3"x0.125"	2"x6"x0.050"x0.120"	4	3	2"x6"x0.050"x0.120"	(4) #14
2"x9"x0.082"x0.306"		3"x3"x0.125"	2"x7"x0.055"x0.120"	5	4	2"x7"x0.055"x0.120"	(6) #14
Double Self Mating Beams							
(2) 2"x8"x0.072"x0.224"		2"x5"x0.050"x0.100"	-	6	4	2"x4"x0.044"x0.100"	(8) #14
(2) 2"x8"x0.072"x0.224"		2"x6"x0.050"x0.120"	-	6	4	2"x6"x0.050"x0.120"	(8) #14
(2) 2"x9"x0.082"x0.306"		2"x7"x0.055"x0.120"	-	8	6	2"x6"x0.050"x0.120"	(8) #14
(2) 2"x10"x0.092"x0.369"		2"x8"x0.057"x0.224"	-	10	8	2"x7"x0.055"x0.120"	(10) #14

* Minimum post / beam may be used as minimum knee brace

THE FLOOR, WALL, AND ROOF SYSTEM ARE THAT OF MOBILE / MANUFACTURED HOME

SCALE: 1/4" = 1'-0"

THE FLOOR, WALL, AND ROOF
SYSTEM ARE THAT OF MOBILE
/ MANUFACTURED HOME

INSTALL NEW 48" OR 60"
AUGER ANCHOR PER RULE
15C @ EACH NEW PIER.
INSTALL 1/2" CARRIAGE BOLT
THRU PERIMETER JOIST AND
STRAP TO NEW AUGER
ANCHOR

SCALE: 1/4" = 1'-0"

STUD WALL OR POST

SCALE: 1/2" = 1'-0"

Maximum 16' projection from host structure

- For stud walls use 1/2" x 8" L-bolts @ 48" O.C. and 2" square washers to attach sole plate to footing. Stud anchors shall be at the sole plate only and coil strap shall lap over the top plate on to the studs and straps shall be per manufacturers specifications.

THE FLOOR, WALL, AND ROOF SYSTEM ARE THAT OF MOBILE / MANUFACTURED HOME

A technical drawing of a door hinge assembly. It shows a door with a hinge mounted on its edge. The hinge is connected to a wall. A line points from the text 'Hinge' to the hinge mechanism. Another line points from the text 'Door' to the door edge. A third line points from the text 'Wall' to the wall surface.

THE FLOOR, WALL, AND ROOF SYSTEM ARE THAT OF MOBILE / MANUFACTURED HOME

KNEE WALL W/ 2 x 4 P.T.P. BOTTOM PLATE, STUDS & DOUBLE TOP PLATE

NAIL PER TABLE 2306.1

FLORIDA BUILDING CODE

EACH STUD SHALL HAVE A SIMPSON SP-1 OR EQUAL

SHEATH W/ 1/2" P.T. PLYWOOD

NAILLED W/ #2 COMMON 6" O.C.

EDGES AND 1/4" O.C. FIELD OR

A technical drawing of a door hinge assembly. It shows a door with a hinge mounted on its edge. The hinge is connected to a wall. A line points from the text 'Hinge' to the hinge mechanism. Another line points from the text 'Door' to the door edge. A third line points from the text 'Wall' to the wall surface.

SHEATH W/ 1/2" P.T. PLYWOOD
NAILED W/ #8 COMMON 6" O.C.
EDGES AND 12" O.C. FIELD OR
STRUCTURAL GRADE
THERMAL PLY FASTENED PER
THE MANUFACTURERS
SPECIFICATIONS
STRAP SIMPSON COIL STRAP
OVER SHEATHING

SCALE: 1/4" = 1'-0"

BEAM SPAN
USE W2
(FOR BEAM SIZE)

SEE INTERIOR BEAM TABLES
AFTER COMPUTING
LOAD WIDTH*

POST SIZE (SEE TABLE 3A.3)
MAX. POST HEIGHT (SEE
TABLES 3A.2.1, 2)

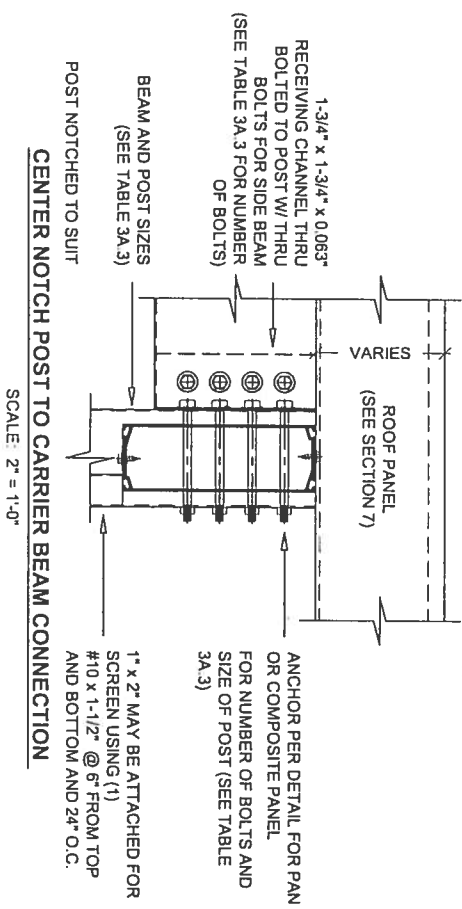
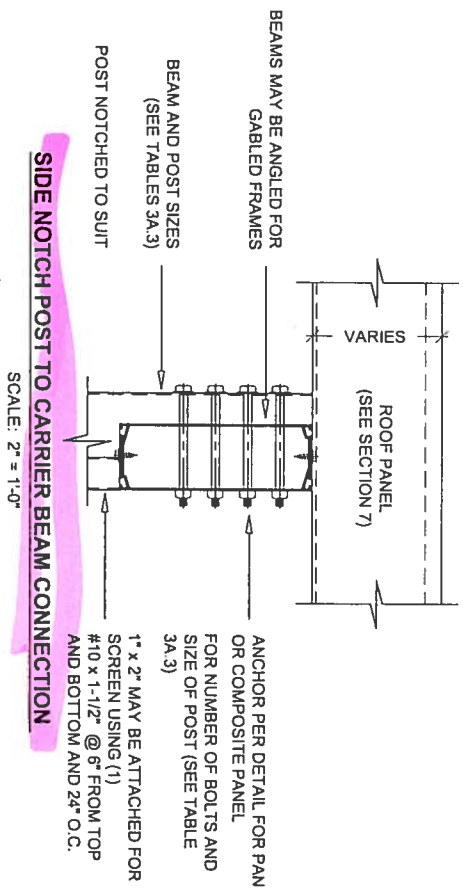
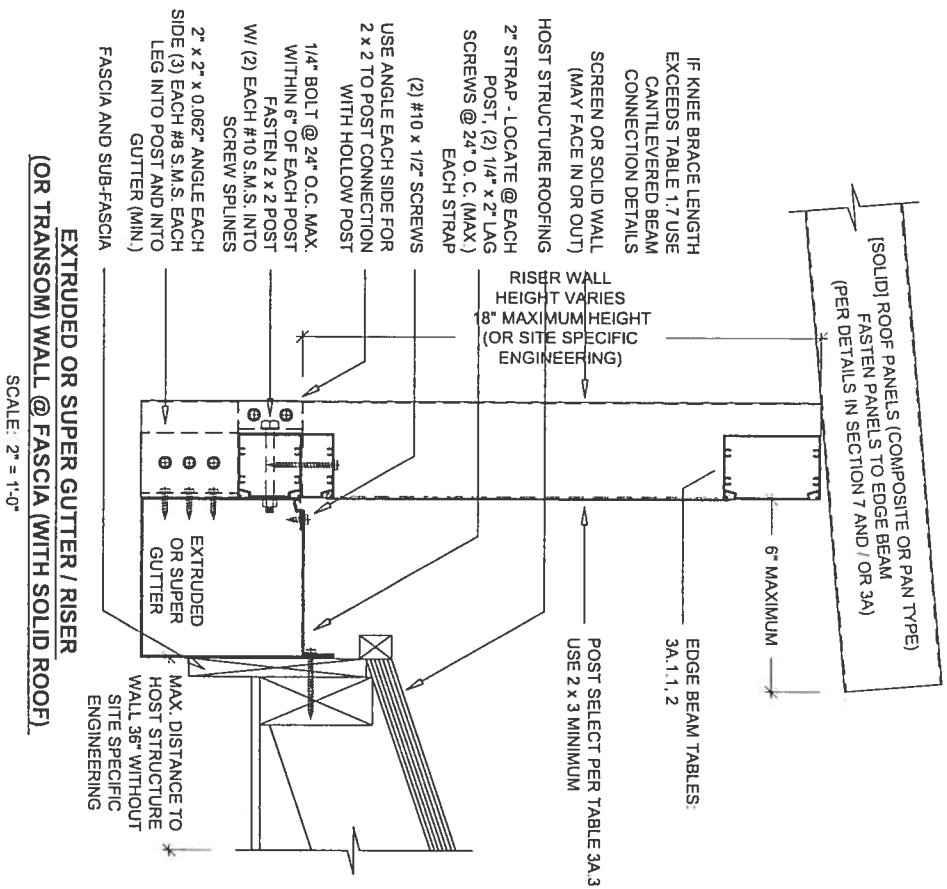
SEE INTERIOR BEAM
AFTER COMPUTE
LOAD WIDTH *

SCALE: 1/8" = 1'-0"

Upright Size	Max. Beam Size	Knee Brace
$2 \times 2 \times 2 \times 0.036^*$	$2^* 4^*$	$2 \times 2 \times 2 \times 0.036^*$
$3 \times 2 \times 2 \times 0.050^*$	$2^* 4^*$	$2 \times 3 \times 3 \times 0.050^*$
$3 \times 3 \times 3 \times 0.069^*$	$2^* \text{ FT } 5 \text{ MB}$	$2^* \times 3^* \times 3 \times 0.050^*$
$3 \times 3 \times 3 \times 0.093^*$	$2^* \times 3^* \times 3 \text{ MB}$	$2^* \times 3^* \times 3 \times 0.050^*$
$3 \times 3 \times 3 \times 0.125^*$	$2^* \times 3^* \text{ S.M.B.}$	$3^* \times 3^* \times 3 \times 0.093^*$
$4 \times 4 \times 4 \times 0.155^*$	$2^* \times 10^* \text{ S.M.B.}$	$3^* \times 3^* \times 3 \times 0.125^*$

Lawrence E. Bennett, P.E.
FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

JAN 01 2005



General Notes and Specifications:

- The following attachments are designed to be married to block and wood frame structures of adequate structural capacity. The contractor / home owner shall verify that the host structure is in good condition and of sufficient strength to hold the proposed addition.
- If there is a question about the host structure, the owner (at his own expense) shall hire an architect, engineer, or a certified home inspection company to verify host structure capacity.
- Roll formed roof panels (pans) are designed for uniform loads and can not be walked on unless plywood is laid across the ribs. Pans have been tested and perform better in wind uplift loads than dead load + live loads. Spans for pans are based on deflection of L/80 for high wind zone criteria.
- Composite panels can be loaded as walk on or uniform loads and have, when tested performed well in either test. The composite panel tables are based on bending properties determined at a deflection limit of L/180.
- The following rules apply to attachments involving mobile and manufactured homes:
 - Structures to be placed adjacent to a mobile / manufactured home built prior to 1994 shall use "fourth wall construction" or shall provide detailed plans of the mobile / manufactured home along with addition plans for site specific review and seal by the engineer. This applies to all screen / glass rooms, and / or other structures to be attached.
 - For mobile / manufactured homes built after 1994, structures may be attached provided the project follows the plan for attachment of this manual. The contractor / home owner shall provide verification of the structural system used to build the host structure.
- The shapes and capacities of pans and composite panels are from "Industry Standard" shapes, except for manufacturers proprietary shapes. Unless the manufacturer of the product is known, use the "Industry Standard" Tables for allowable spans.
- When converting a screen room to a glass room or a carport to a garage, the roof must be checked and reinforced for the enclosed building requirements.
- When using TEK screws in lieu of S.M.S. longer screws must be used to compensate for drill head.
- For high velocity hurricane zones the minimum live load / applied load shall be 30 PSF.
- Interior walls & ceilings of composite panels may have 1/2" sheet rock added by securing the sheet rock w/ 1" fine thread sheet rock screws at 16" O.C. each way.
- All fascia gutter and caps shall have water relief ports.
- Spans may be interpolated between values but not extrapolated outside values.
- Design Check List and Inspection Guides for Solid Roof Panel Systems are included in inspection guides for sections 2, 3& 4 B, 4 & 5. Use section 2 inspection guide for solid roof in Section 1.
- All exposed screw heads through roof panels into the roof sub structure shall be caulked w/ silicon sealant.

Section 7 Design Statement:

The roof systems designed for section 7 are Main Wind Force Resisting Systems and Components and Cladding. In conformance with the 2004 Florida Building Code such systems must be designed using loads for components & cladding. Thus, Section 7 uses several different categories of these loads as described below. All pressures shown in the table below are in PSF (#SF).

- Free-standing Structures with Mono-sloped Roofs** with a minimum live load of 10 PSF except for 140B and 150 MPH loads which are 30 PSF. The design wind loads used are from ASCE 7-98 Section 6.5, Analytical Procedure. The loads assume a mean roof height of less than 30'; roof slope of 0° to 10°; 1 = 0.77 for open structures & 1.00 for all others. Negative internal pressure coefficient is 0.18 for enclosed and 0.55 for partially enclosed structures.
- Attached Covers** such as carports, patio covers, gabled carports, and screen rooms with a minimum live load of 10 PSF except for 140B and 150 MPH loads which are 30 PSF. The design wind loads used are from ASCE 7-98 Section 6.5, Analytical Procedure. Roof slope of 0° to 25° (+/-, 10°), 1 = 1.00. Negative internal pressure coefficient is 0.18 for enclosed and 0.55 for partially enclosed structures.
- Glass & Modular Rooms** design loads use a minimum live load of 20 PSF and wind loads are from ASCE 7-98 Section 6.5, Analytical Procedure and the 2004 Florida Building Code. The loads assume a mean roof height of less than 30'; roof slope of 20° to 30° (+/-, 10°), 1 = 1.00.
- Enclosed structural systems use a negative internal pressure coefficient = +/- 0.18.
 - Partially Enclosed structural systems use a negative internal pressure coefficient = +/- 0.55.
- Overhangs use a minimum live load of 20 PSF except for 140B and 150 MPH loads which are 30 PSF. Wind loads are from ASCE 7-98 Section 6.5, Analytical Procedure for Components & Cladding for Enclosed or Partially Enclosed Structural Systems. The loads assume a mean roof height of less than 30'; roof slope of 20° to 30° (+/-, 10°), 1 = 1.00. Negative internal pressure coefficient is 0.18 for enclosed and 0.55 for partially enclosed structures.
- Anchors for composite panel roof systems were computed on a load width of 10' and 16' projection with a 2' overhang. Any greater load width shall be site specific.

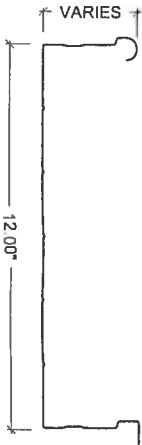
Conversion Table 7A
Load Conversion Factors Based on
Mean Roof Height of Host Structure
For All Components

Mean Host Structure Height	Pans	Composite Panels
0 - 15'	0.91	0.94
15 - 20'	0.88	0.92
20 - 25'	0.86	0.91
25 - 30'	0.85	0.89

Conversion Table 7B
Conversion Based on Mean Height of Host
Structure for Solid Roof Systems
From Exposure 'B' to 'C'

Mean Host Structure Height	Load Multiplier	Pans	Composite Panels
0 - 15'	1.21	0.94	0.91
15 - 20'	1.29	0.92	0.88
20 - 25'	1.34	0.91	0.86
25 - 30'	1.40	0.89	0.85

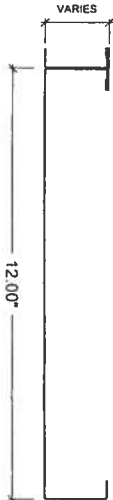
INDUSTRY STANDARD ROOF PANELS



12" WIDE x VARIOUS HEIGHT RISER ROOF PANEL
SCALE: 2" = 1'-0"

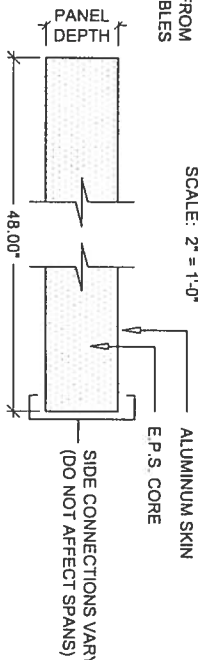


12" WIDE x 3" RISER INTERLOCKING ROOF PANEL
SCALE: 2" = 1'-0"



SELECT PANEL DEPTH FROM TABLES

CLEATED ROOF PANEL
SCALE: 2" = 1'-0"



COMPOSITE ROOF PANEL (INDUSTRY STANDARD)
SCALE: 2" = 1'-0"

PAN ROOF ANCHORING DETAILS

ALTERNATE CONNECTION:
(3) #8 SCREWS PER PAN WITH 1" MINIMUM EMBEDMENT INTO FASCIA THROUGH PAN BOXED END

EXISTING TRUSS OR RAFTER
#10 x 1-1/2" S.M.S. (2) PER RAFTER OR TRUSS TAIL

EXISTING FASCIA
#10 x 3/4" S.M.S. @ 12" O.C.

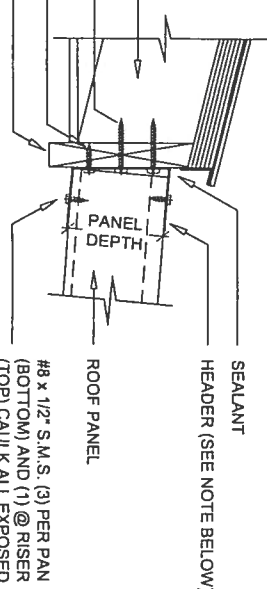
EXISTING HOST STRUCTURE
WOOD FRAME, MASONRY OR OTHER CONSTRUCTION

SEALANT

HEADER (SEE NOTE BELOW)

ROOF PANEL

#8 x 1/2" S.M.S. (3) PER PAN (BOTTOM) AND (1) @ RISER (TOP) CAULK ALL EXPOSED SCREW HEADS



ROOF PANEL TO FASCIA DETAIL
SCALE: 2" = 1'-0"

FOR MASONRY USE 1/4" x 1-1/4" MASONRY ANCHOR OR EQUAL @ 24" O.C. FOR WOOD USE #10 x 1-1/2" S.M.S. OR WOOD SCREWS @ 2" O.C.

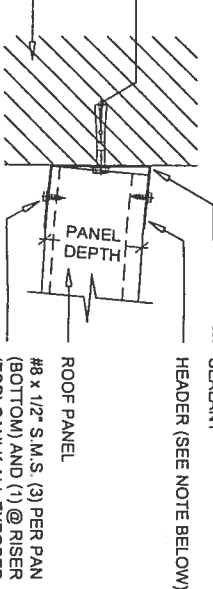
EXISTING HOST STRUCTURE:
WOOD FRAME, MASONRY OR OTHER CONSTRUCTION

SEALANT

HEADER (SEE NOTE BELOW)

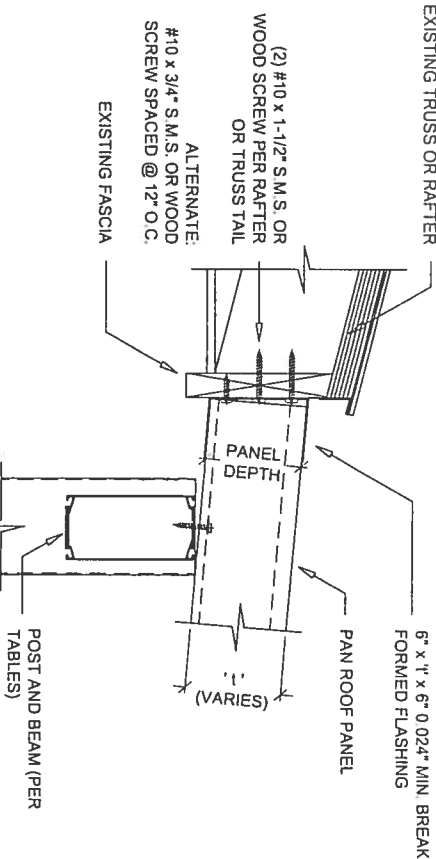
ROOF PANEL

#8 x 1/2" S.M.S. (3) PER PAN (BOTTOM) AND (1) @ RISER (TOP) CAULK ALL EXPOSED SCREW HEADS



ROOF PANEL TO WALL DETAIL
SCALE: 2" = 1'-0"

ROOF PANELS SHALL BE ATTACHED TO THE HEADER WITH (3) EACH #8 x 1/2" LONG CORROSION RESISTANT SHEET METAL SCREWS WITH 1/2" WASHERS. ALL SCREW HEADS SHALL BE CAULKED OR SHALL HAVE NEOPRENE GASKET BETWEEN THE WASHER AND THE PAN. PAN RIBS SHALL RECEIVE (1) EACH #8 x 1/2" SCREW EACH. THE PANS MAY BE ANCHORED THROUGH BOXED PAN WITH (3) EACH #8 x 1" OF THE ABOVE SCREW TYPES AND THE ABOVE SPECIFIED RISER SCREW. #8 x 9/16" TEK SCREWS ARE ALLOWED AS A SUBSTITUTE FOR #8 x 1/2" S.M.S.



ALTERNATE MOBILE HOME FLASHING FOR FOURTH WALL CONSTRUCTION PAN ROOF PANELS
SCALE: 2" = 1'-0"

- INSTALLATION INSTRUCTIONS:
- PLACE (2) BEADS OF CAULKING ON BACK SIDE OF HEADER BEFORE INSTALLING.
 - SLIDE 1" TAB AT TOP OF HEADER UNDER DRIP EDGE. DO NOT PUSH DRIP EDGE UP. DRIP EDGE MUST MAINTAIN SAME PLANE AS SLOPE OF ROOF.
 - FASTEN HEADER TO FASCIA BOARD WITH #10 x 1" SCREWS @ 6" O.C. STAGGERED TOP AND BOTTOM (SEE DETAIL ABOVE)
 - PLACE PAN ROOF PANEL INTO HEADER AND ATTACH TO 4TH WALL POST AND BEAM SYSTEM ONLY. DO NOT ATTACH TO HEADER. HEADER IS USED AS FLASHING ONLY.

COMPOSITE ROOF ANCHORING DETAILS

EXISTING TRUSS OR RAFTER
#10 x 1-1/2" S.M.S. OR WOOD WOOD SCREW (2) PER RAFTER OR TRUSS TAIL

EXISTING FASCIA
#10 x 3/4" S.M.S. OR WOOD SCREW SPACED @ 12" O.C.

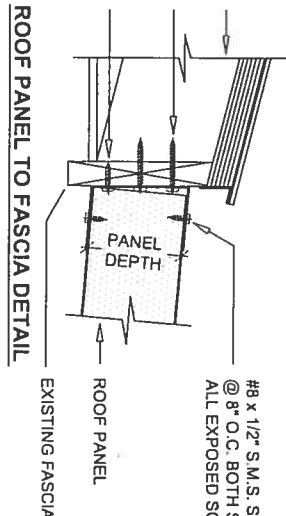
EXISTING HOST STRUCTURE
WOOD FRAME, MASONRY OR OTHER CONSTRUCTION

FOR MASONRY USE 1/4" x 1-1/4" MASONRY ANCHOR OR EQUAL @ 24" O.C. FOR WOOD USE #10 x 1-1/2" S.M.S. OR WOOD SCREWS @ 12" O.C.

#8 x 1/2" S.M.S. SPACED @ 8" O.C. BOTH SIDES CAULK ALL EXPOSED SCREW HEADS

ROOF PANEL

EXISTING FASCIA



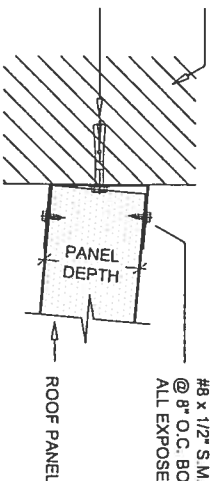
ROOF PANEL TO FASCIA DETAIL
SCALE: 2" = 1'-0"

EXISTING HOST STRUCTURE
WOOD FRAME, MASONRY OR OTHER CONSTRUCTION

FOR MASONRY USE 1/4" x 1-1/4" MASONRY ANCHOR OR EQUAL @ 24" O.C. FOR WOOD USE #10 x 1-1/2" S.M.S. OR WOOD SCREWS @ 12" O.C.

#8 x 1/2" S.M.S. SPACED @ 8" O.C. BOTH SIDES CAULK ALL EXPOSED SCREW HEADS

ROOF PANEL



ROOF PANEL TO WALL DETAIL
SCALE: 2" = 1'-0"

WOOD STRUCTURES SHOULD CONNECT TO TRUSS BUTTS OR THE SUB-FASCIA FRAMING WHERE POSSIBLE ONLY. 15% OF SCREWS CAN BE OUTSIDE THE TRUSS BUTTS. SUB-FASCIA AND THOSE AREAS SHALL HAVE DOUBLE ANCHORS. ALL SCREWS INTO THE HOST STRUCTURE SHALL HAVE MINIMUM 1-1/4" WASHERS OR SHALL BE WASHER HEADED SCREWS.

HEADER INSIDE DIMENSION SHALL BE EQUAL TO PANEL OR PANS DEPTH "t". THE WALL THICKNESS SHALL BE THE THICKNESS OF THE ALUMINUM PAN OR COMPOSITE PANEL WALL THICKNESS. HEADERS SHALL BE ANCHORED TO THE HOST STRUCTURE WITH ANCHORS APPROPRIATE FOR THE MATERIAL CONNECTED TO. THE ANCHORS DETAILED ABOVE ARE BASED ON A LOAD FROM 120 M.P.H. FOR SBC SECTION 1606 FOR A MAXIMUM POSSIBLE SPAN OF THE ROOF PANEL FROM THE HOST STRUCTURE. ANCHORS BASED ON 120 MPH WIND VELOCITY. FOR HIGHER WIND ZONES USE THE FOLLOWING CONVERSION:

100 - 123	130	140	150
#8	#10	#12	#12

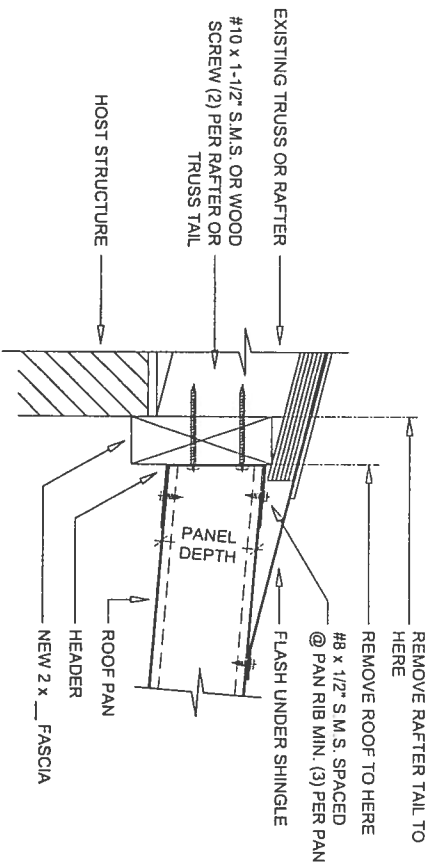
07-08-2004

SCREEN, ACRYLIC & VINYL ROOMS
ALUMINUM STRUCTURES DESIGN MANUAL
2004 FLORIDA BUILDING CODE
MAY 2004 EDITION
SECTION 7 DETAILS

Lawrence E. Bennett, P.E.
FL # 16644
CIVIL ENGINEER - DEVELOPMENT CONSULTANT
P.O. BOX 214368, SOUTH DAYTONA, FL 32121
TELEPHONE: (386) 767-4774
FAX: (386) 767-6556

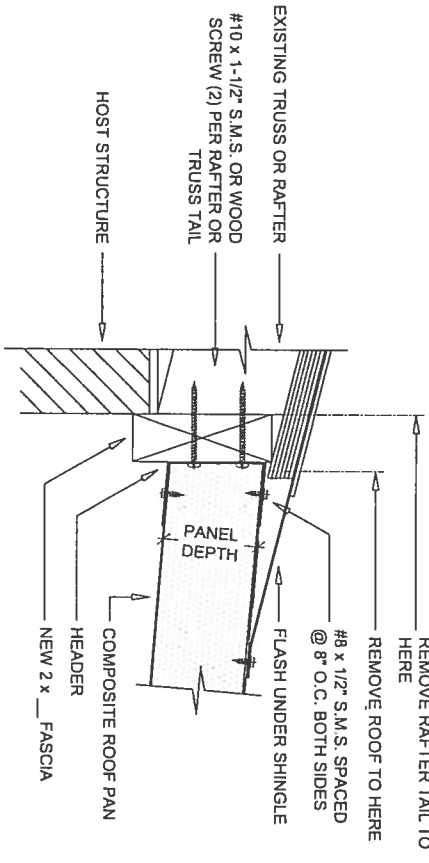
SHEET
SEAL

6A



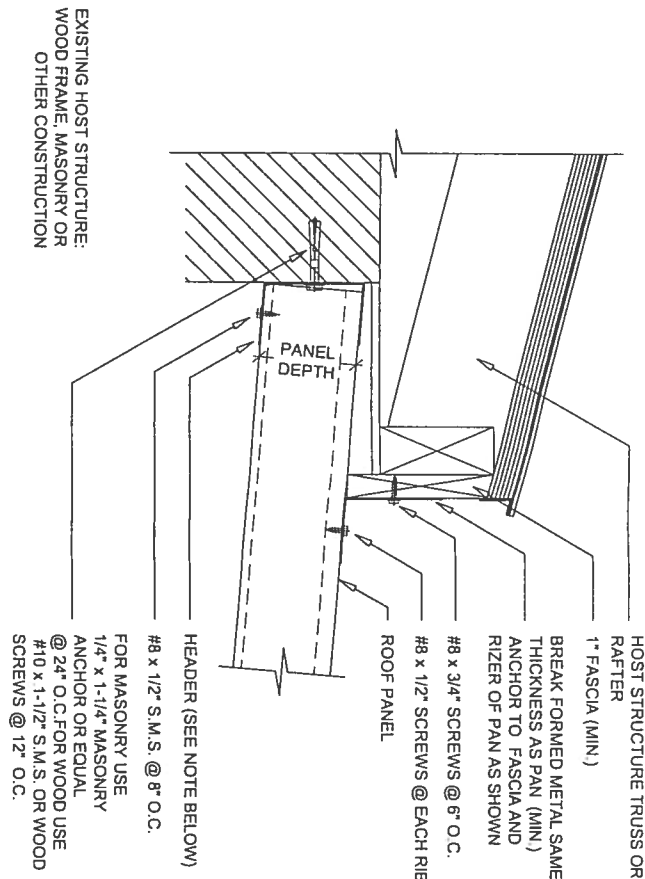
REMOVED RAFTER TAIL ROOF PAN TO FASCIA DETAIL

SCALE: 2" = 1'-0"



REMOVED RAFTER TAIL COMPOSITE ROOF PANEL TO WALL DETAIL

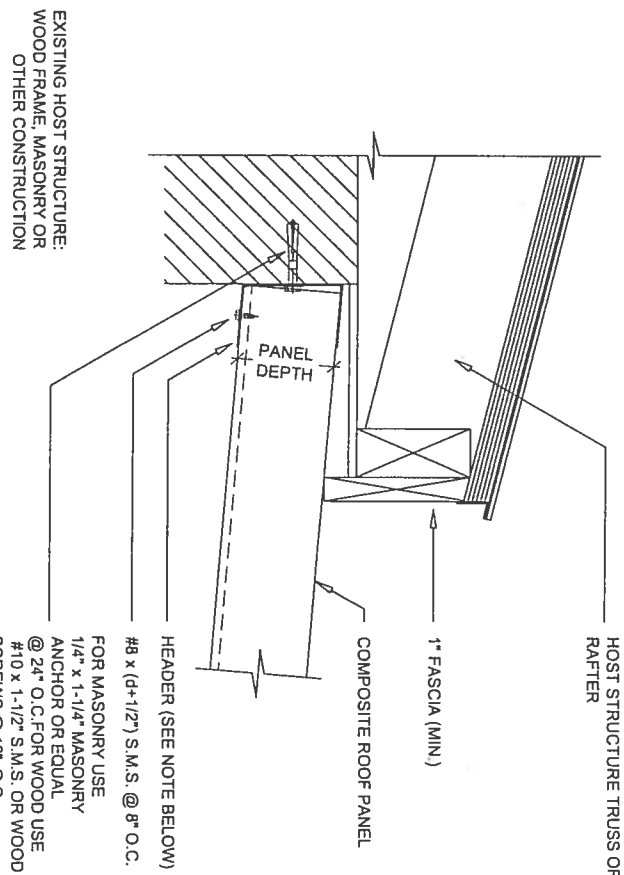
SCALE: 2" = 1'-0"



ALTERNATE ROOF PANEL TO WALL DETAIL

SCALE: 2" = 1'-0"

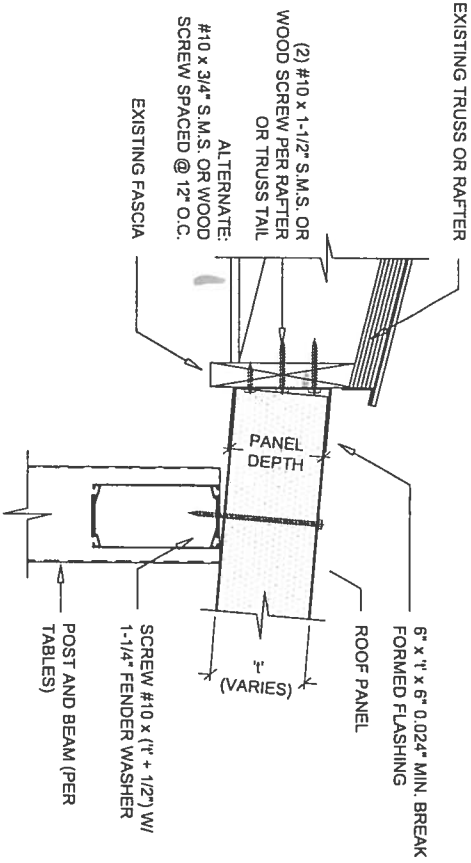
ROOF PANELS SHALL BE ATTACHED TO THE HEADER W/ (3) EACH #8 x 1/2" LONG CORROSION RESISTANT S.M.S. W/ 1/2" WASHERS. ALL SCREW HEADS SHALL BE CAULKED OR SHALL HAVE NEOPRENE GASKET BETWEEN THE WASHER AND THE PAN. PAN RIBS SHALL RECEIVE (1) EACH #8 x 1/2" SCREW EACH. THE PANS MAY BE ANCHORED THROUGH BOXED PAN W/ (3) EACH #8 x 1" OF THE ABOVE SCREW TYPES AND THE ABOVE SPECIFIED RIB SCREW.



ALTERNATE COMPOSITE ROOF PANEL TO WALL DETAIL

SCALE: 2" = 1'-0"

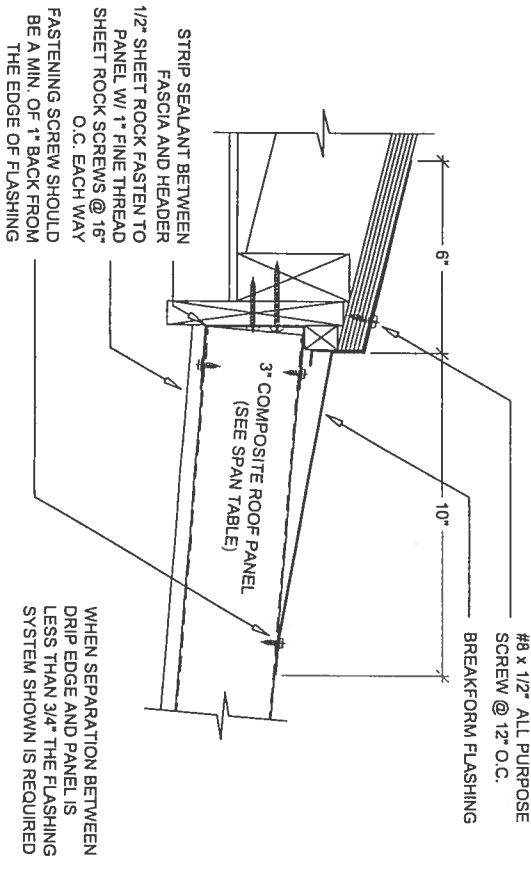
COMPOSITE ROOF PANELS SHALL BE ATTACHED TO EXTRUDED HEADER W/ (3) EACH #8 x (d+1/2") LONG CORROSION RESISTANT S.M.S.



ALTERNATE MOBILE HOME FLASHING FOR FOURTH WALL CONSTRUCTION

SCALE: 2" = 1'-0"

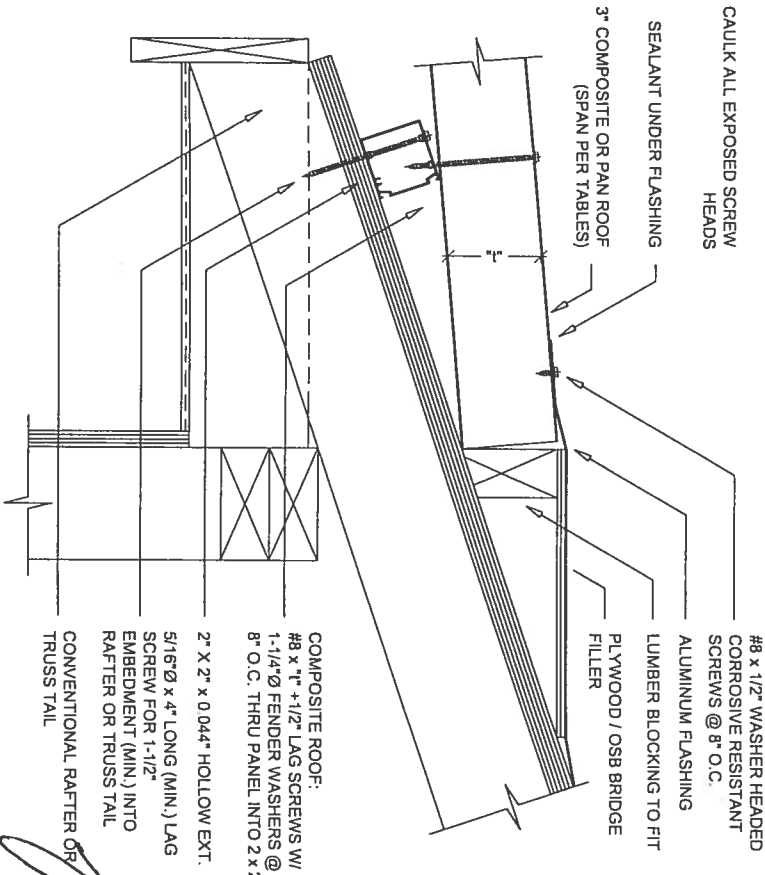
- INSTALLATION INSTRUCTIONS:
- PLACE (2) BEADS OF CAULKING ON BACK SIDE OF HEADER BEFORE INSTALLING.
 - SLIDE 1" TAB AT TOP OF HEADER UNDER DRIP EDGE. DO NOT PUSH DRIP EDGE UP. DRIP EDGE MUST MAINTAIN SAME PLANE AS SLOPE OF ROOF.
 - FASTEN HEADER TO FASCIA BOARD WITH #10 x 1" SCREWS @ 6" O.C. STAGGERED TOP AND BOTTOM (SEE DETAIL ABOVE)
 - PLACE COMPOSITE ROOF PANEL INTO HEADER AND ATTACH TO 4TH WALL POST AND BEAM SYSTEM ONLY. DO NOT ATTACH TO HEADER. HEADER IS USED AS FLASHING ONLY.



ALTERNATE DETAIL FOR FLASHING ON SHINGLE ROOFS

SCALE: 2" = 1'-0"

- NOTES:
- FLASHING TO BE INSTALLED A MIN. 6" UNDER THE FIRST ROW OF SHINGLES.
 - STANDARD COIL FOR FLASHING IS 16" .019 MIL. COIL.
 - FIRST ROW OF EXISTING NAILS MUST BE REMOVED TO INSTALL FLASHING PROPERLY.
 - FLASHING WILL BE INSTALLED UNDER THE FELT PAPER WHEN POSSIBLE.
 - HEADER WILL BE PUTTY TAPE AND CAULKED EVEN THOUGH FLASHING IS TO BE INSTALLED.
 - IF THE DROP FROM THE EDGE OF THE SHINGLE DOWN TO THE TOP OF THE HEADER IS MORE THAN 1" THEN THE DRIP EDGE WILL HAVE TO BE BROKEN TO CONFORM TO THIS DROP.
 - WHEN USING FLASHING THE SMALLEST SIZE HEADER AVAILABLE SHOULD BE USED. 12" .03 MIL. ROLLFORM OR 8" BREAKFORM IS BEST SUITED FOR HEADER SINCE IT KEEPS THE FLAP LIP OF THE HEADER BACK FROM THE EDGE OF THE FLASHING.
 - WHEN SEPARATION BETWEEN DRIP EDGE AND PANEL FLASHING IS REQUIRED 1/2" SEPARATION MINIMUM.
 - STRIP SEALANT BETWEEN FASCIA AND HEADER PRIOR TO INSTALLATION.



WEDGE ROOF CONNECTION DETAIL

SCALE: 2" = 1'-0"

07-08-2004

OF

8

6B

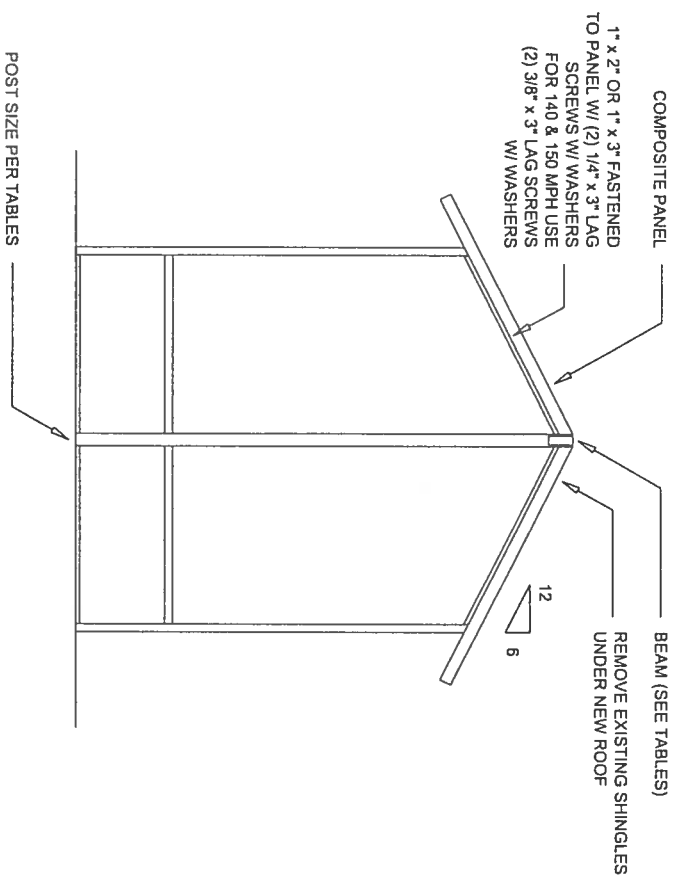
SHEET

SEAL

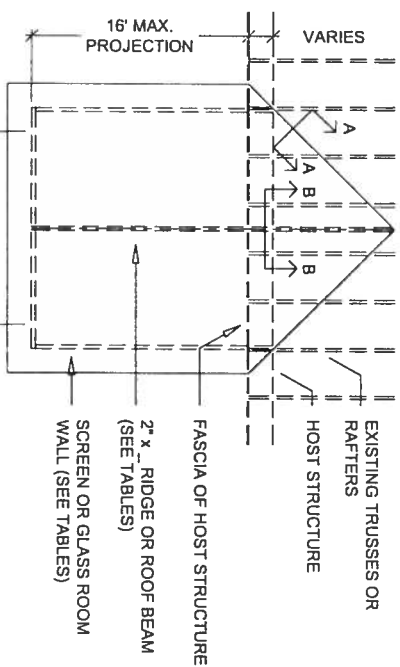
Lawrence E. Bennett, P.E.
FL # 16644
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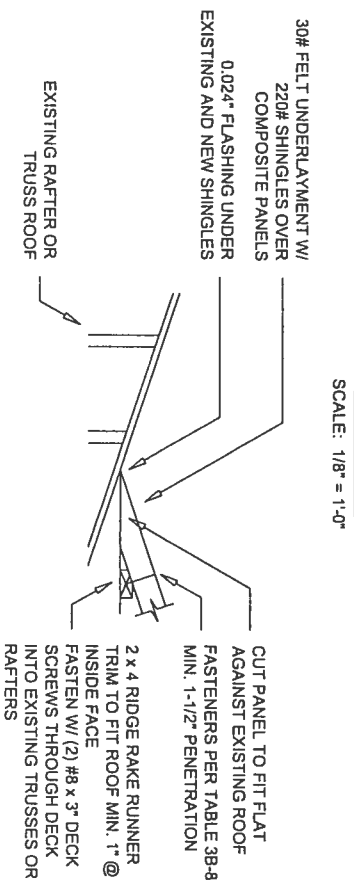
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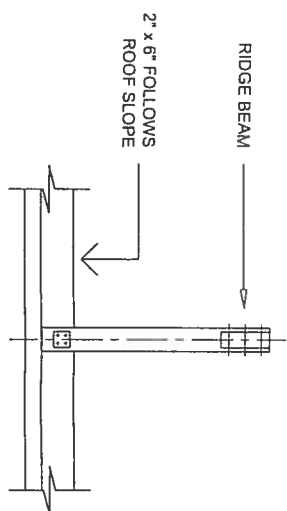
SCREEN OR SOLID WALL ROOM VALLEY CONNECTION
FRONT WALL ELEVATION VIEW



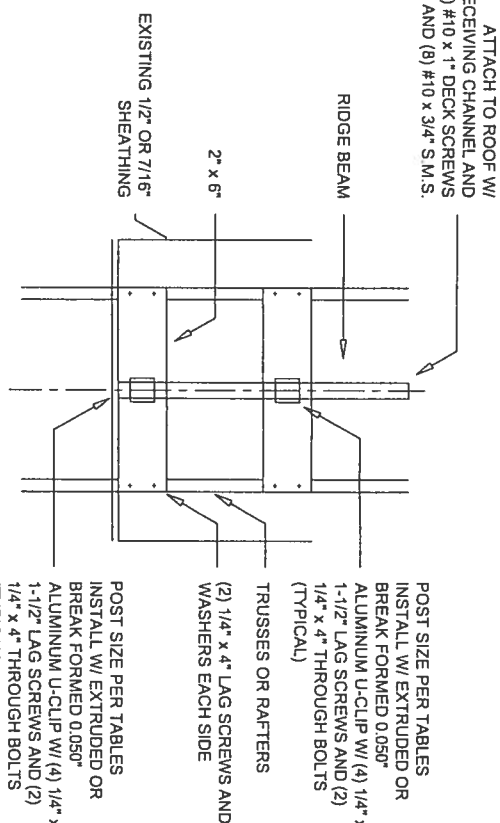
SCREEN OR SOLID WALL ROOM VALLEY CONNECTION



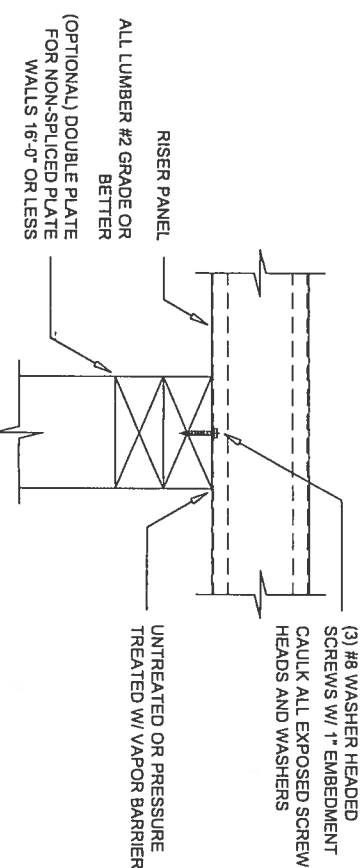
A - A - SECTION VIEW
SCALE: 1/2" = 1'-0"



B - B - ELEVATION VIEW
SCALE: 1/2" = 1'-0"

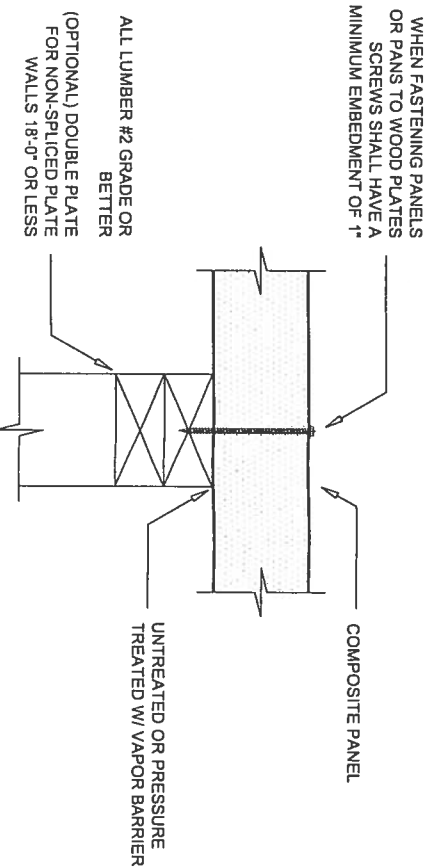


B - B - PLAN VIEW
SCALE: 1/2" = 1'-0"

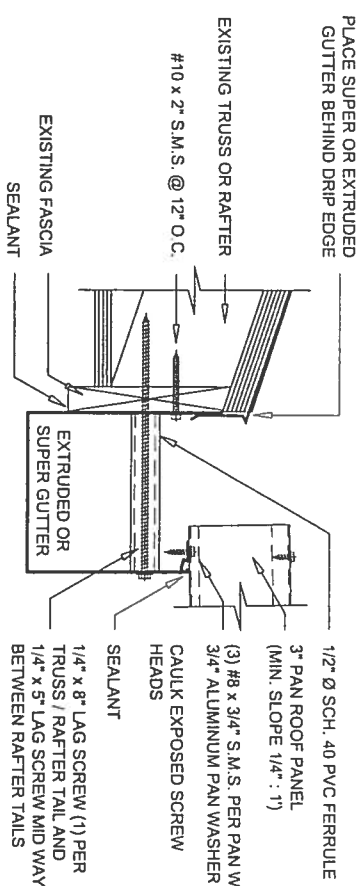


PANTO WOOD FRAME DETAIL

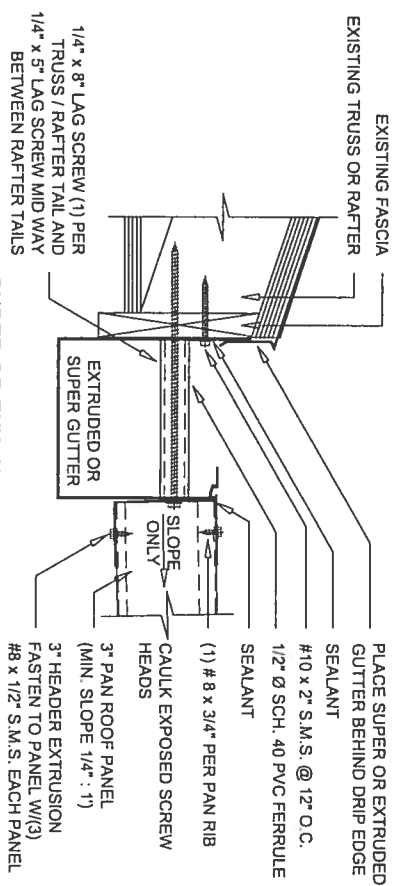
SCALE: 2" = 1'-0"



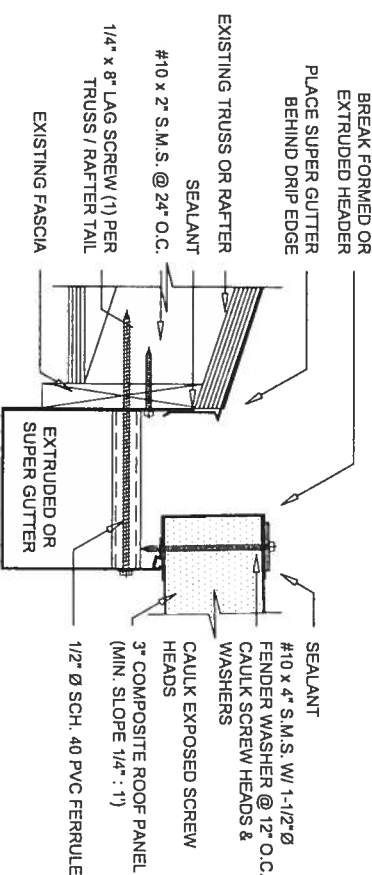
COMPOSITE PANEL TO WOOD FRAME DETAIL



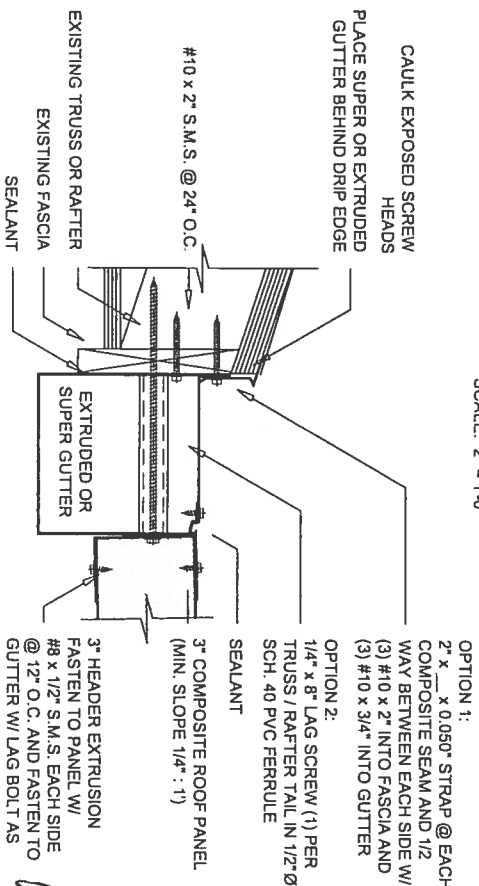
SUPER OR EXTRUDED GUTTER
EXISTING ROOF TO PAN ROOF PANEL DETAIL 1



SUPER OR EXTRUDED GUTTER
EXISTING ROOF TO PAN ROOF PANEL DETAIL 2



EXISTING ROOF TO COMPOSITE ROOF PANEL DETAIL 1



EXISTING ROOF TO COMPOSITE ROOF PANEL DETAIL 2