



3" MODULAR GABLE ROOM

GLASS WALL NON-HABITABLE SUNROOM

PERFORMANCE EVALUATION

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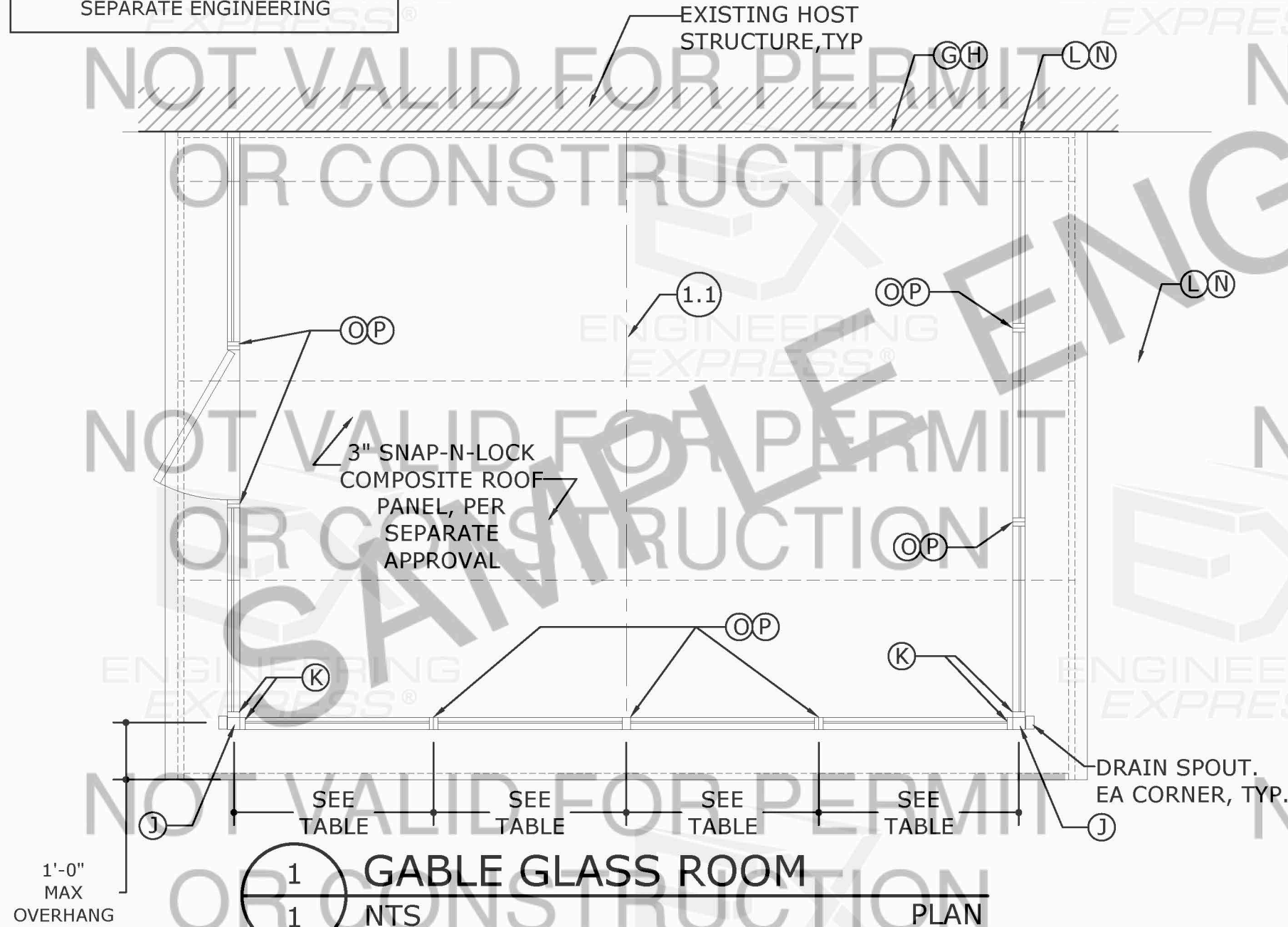
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ATTACHMENT OF GLAZING PRODUCTS TO MULLIONS TO BE PER SEPARATE PRODUCT APPROVAL OR SEPARATE ENGINEERING

EXISTING HOST STRUCTURE, TYP



DESIGN NOTES:

POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE STRUCTURAL REQUIREMENTS OF THE 2018/2021 IBC/IRC, 2023 (8th EDN) & 2020 (7th EDN) FLORIDA BUILDING CODE 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 ARE LISTED THEN MOST STRINGENT APPLIES. DESIGN SHALL UTILIZE ASD DESIGN METHOD USING ASCE 7-16 OR ASCE 7-22 CODES FOR SITE SPECIFIC APPLICATIONS AS APPLICABLE.

ENCLOSURE MAXIMUM MEAN (AVERAGE) ROOF HEIGHT= 15'
ROOF LIVE LOAD: 20 PSF TO 40 PSF PER TABLE
ROOF DEAD LOAD: 2 PSF USED IN TABLE

*THIS DOCUMENT DOES **NOT** CERTIFY PRODUCT FOR USE AS A HABITABLE STRUCTURE. AAMA 2100 SUNROOM CLASSIFICATION II, III, OR IV ONLY.

GENERAL NOTES:

- STRUCTURE SHALL BE FABRICATED IN ACCORDANCE WITH ALL GOVERNING CODES. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY.
- THE ARCHITECT/ENGINEER OF RECORD OR PERMITTING CONTRACTOR FOR THE PROJECT SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES.
- THE HOST STRUCTURE SHALL NOT BE MODIFIED WITH THIS DESIGN - ALL EXISTING WINDOWS, DOORS, AND WALLS SHALL REMAIN IN PLACE. WHERE IMPACT PROTECTION IS REQUIRED, IT SHALL BE PLACED AT THE HOST STRUCTURE, NOT ON THE SUNROOM.
- ANCHORAGE**
ALL FASTENERS TO BE #12 OR GREATER SAE GRADE 5 UNLESS NOTED OTHERWISE. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.1 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE AS NOTED HEREIN. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- ALL CONCRETE ANCHORS SHALL BE INSTALLED TO NON-CRACKED CONCRETE ONLY.
- MATERIALS**
THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ALL ALUMINUM SHALL BE 6063-T6 ALLOY AND TEMPER UNLESS NOTED OTHERWISE.
- ALL CONCRETE TO REACH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 7 DAYS.
- ANY WOOD USED IN A PRIMARY CONNECTION SHALL BE SYP#2 OR BETTER.
- OTHER**
THE SYSTEM DETAILED HEREIN IS GENERIC & DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. THESE PLANS SHALL BE USED ALONG WITH SITE SPECIFIC PLANS & INFORMATION BY OTHERS TO CONSTITUTE APPROVAL FOR PERMIT & CONSTRUCTION.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
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- THIS ENCLOSURE IS ONLY CERTIFIED AS **NON-HABITABLE** PER AAMA 2100
- THIS ENCLOSURE DOES NOT QUALIFY FOR MISSILE IMPACT RESISTANCE UNDER ANY CIRCUMSTANCE
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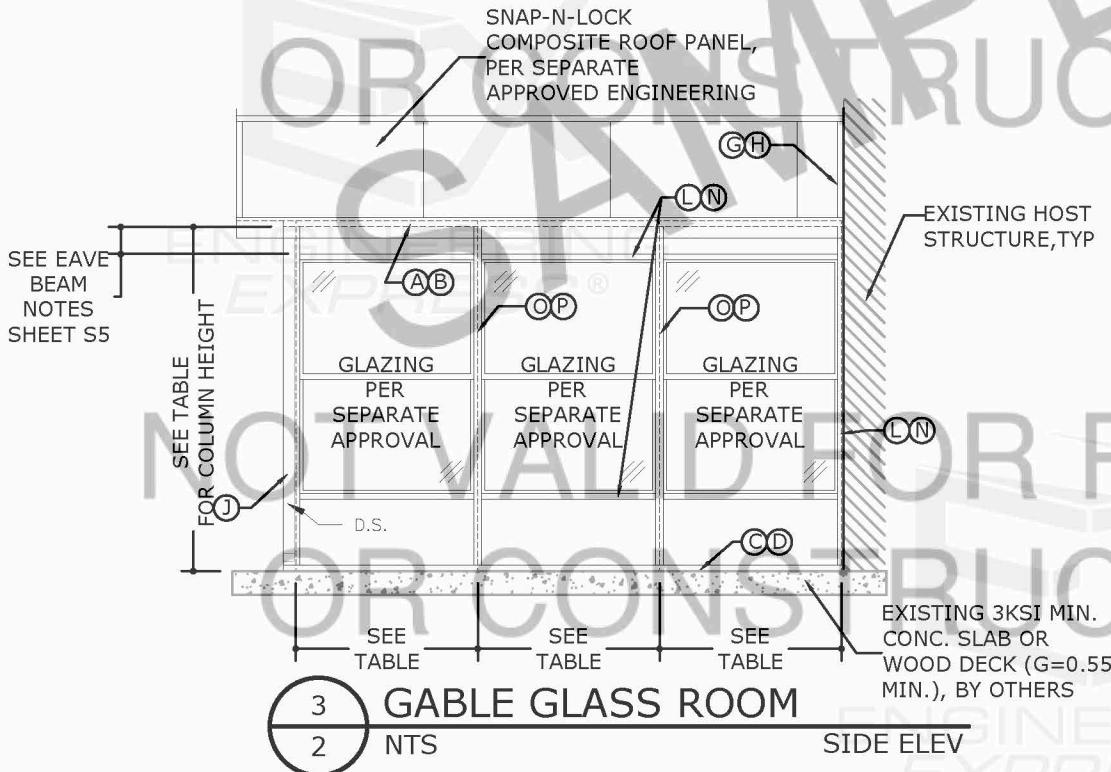
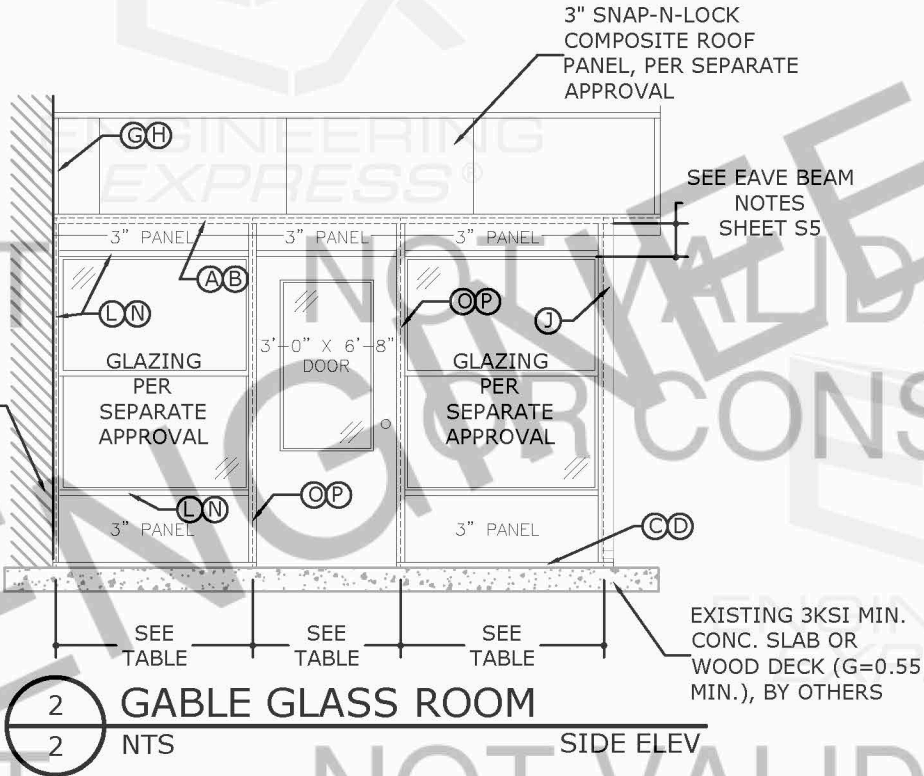
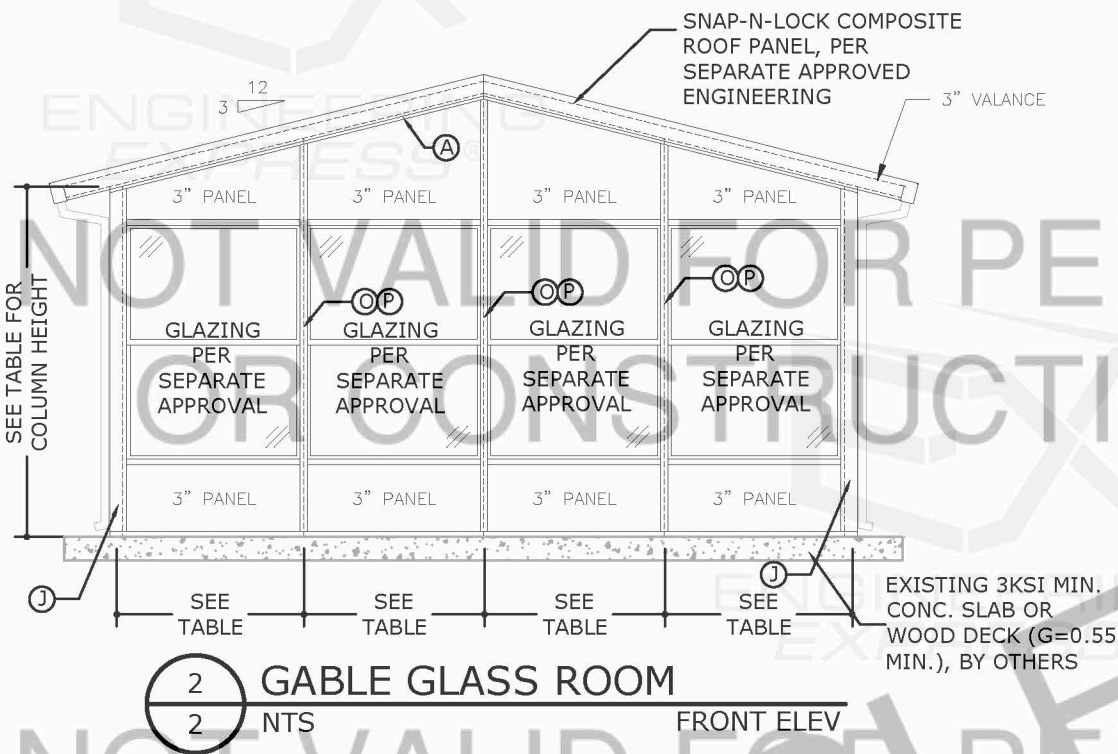
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ORIGINAL PROJECT (20-28296)	7/23/19	RVN	RVN	
2020 FBC (20-26259)	6/02/20	TT	FLB	
2021 FORMATTING (20-28259)	11/22/21	CCB	FLB	
2023 FBC (23-69337)	01/05/24	CLV	OCB	

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23-69337

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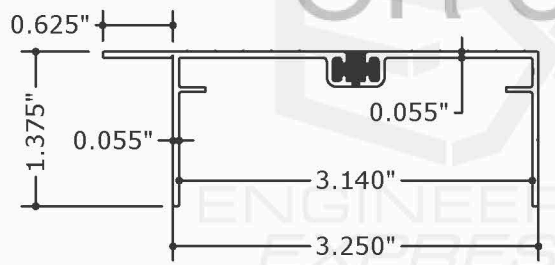
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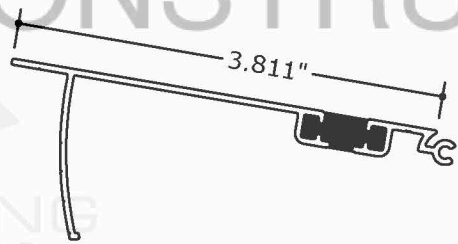
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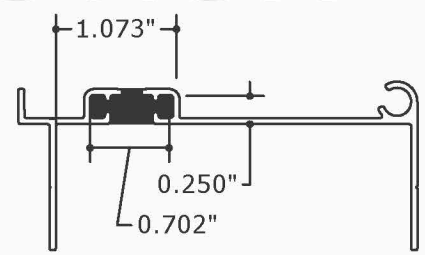
EXTRUSIONS



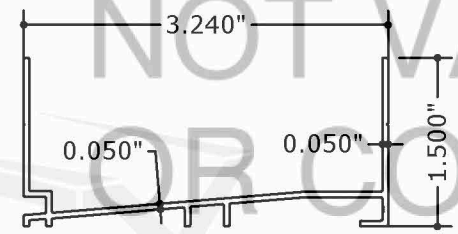
A 3" THERMO TOP CAP CHANNEL



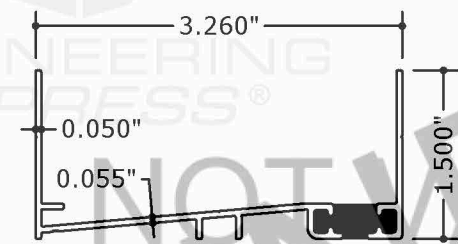
B.1 3" THERMO TOP CAP PLATE (UPPER ASSEMBLY)



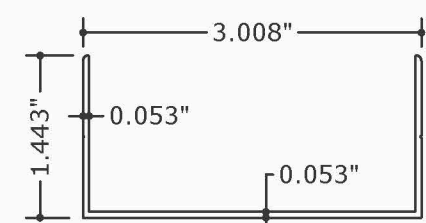
B.2 3" THERMO TOP CAP PLATE (LOWER ASSEMBLY)



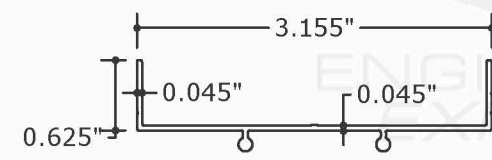
C 3" NON-THERMO BASE CHANNEL



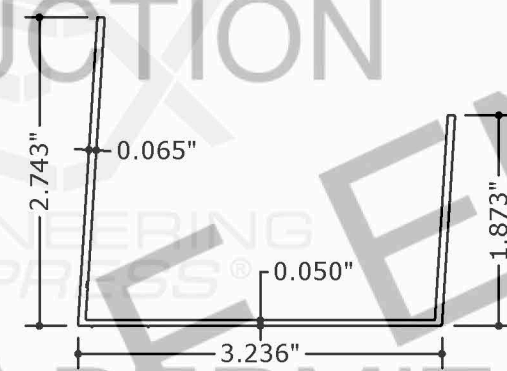
D 3" THERMO BASE CHANNEL



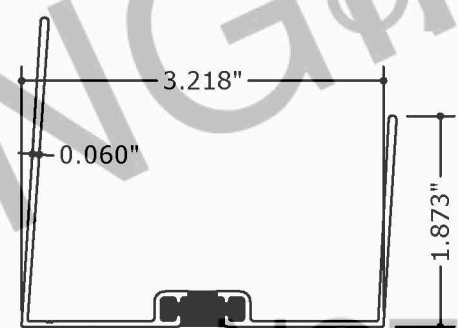
E 3" RECEIVING CHANNEL (ALSO USED FOR NON-THERMO TOP CAP)



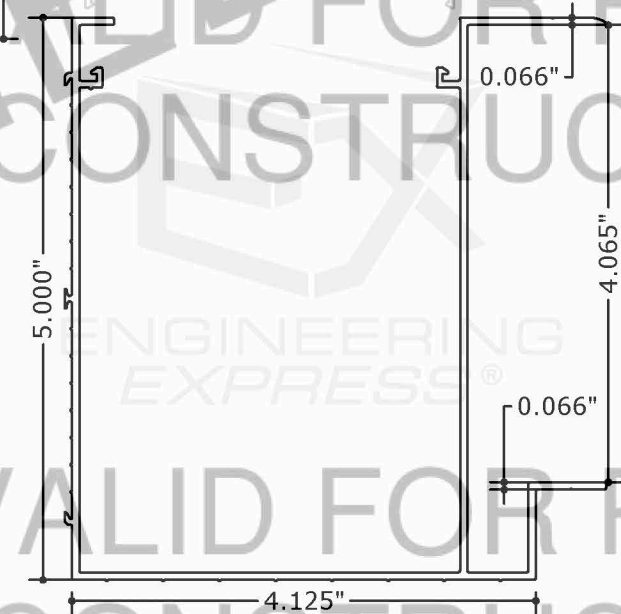
F 3" KEYED RECEIVER



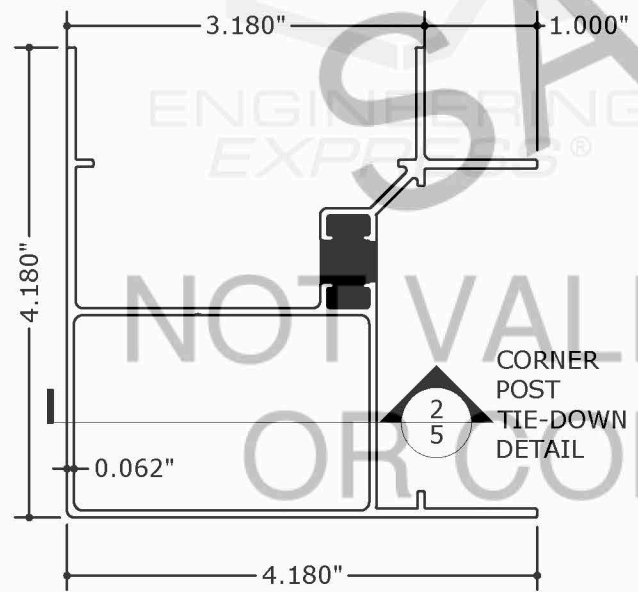
G 3" WALL NON-THERMO HEADER



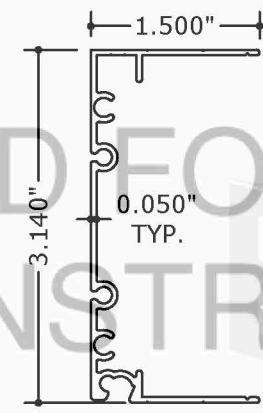
H 3" WALL THERMO HEADER



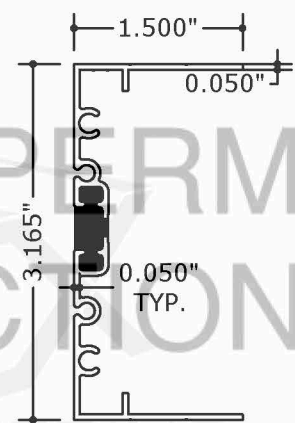
I GUTTER EXTRUSION



J 3" THERMO MODULAR ROOM CORNER POST

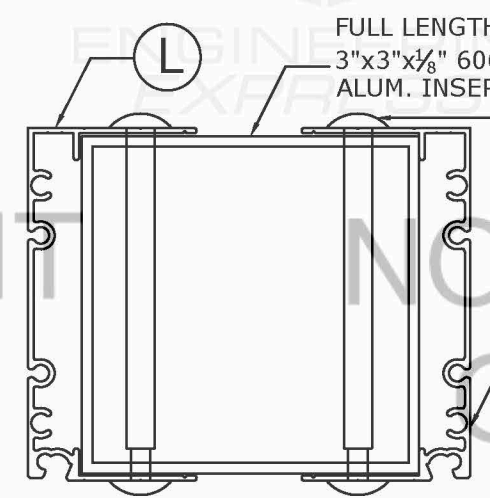


L 2"x3" NON-THERMO MODULAR ROOM FEMALE MULLION

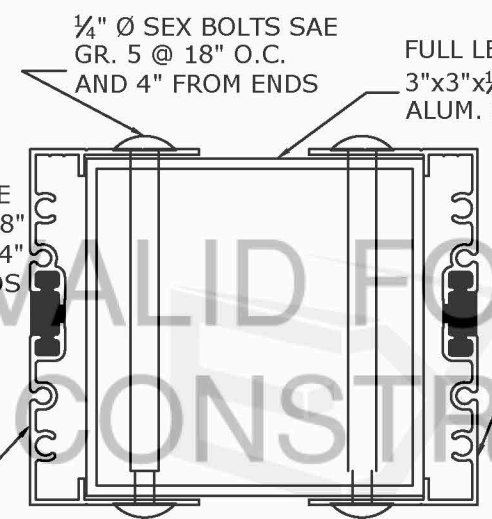


N 2"x3" THERMO MODULAR ROOM FEMALE MULLION

1/4" SAE GR 5 THRUBOLTS MAY BE USED IN LIEU OF SEX BOLTS IN ALL CASES



O COMPLETE REINFORCED NON-THERMO MODULAR MULLION



P COMPLETE REINFORCED THERMO MODULAR MULLION

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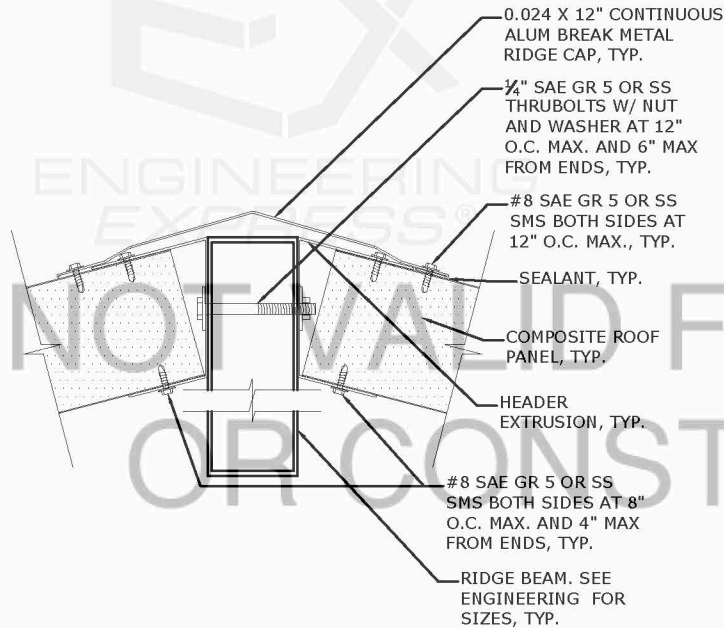
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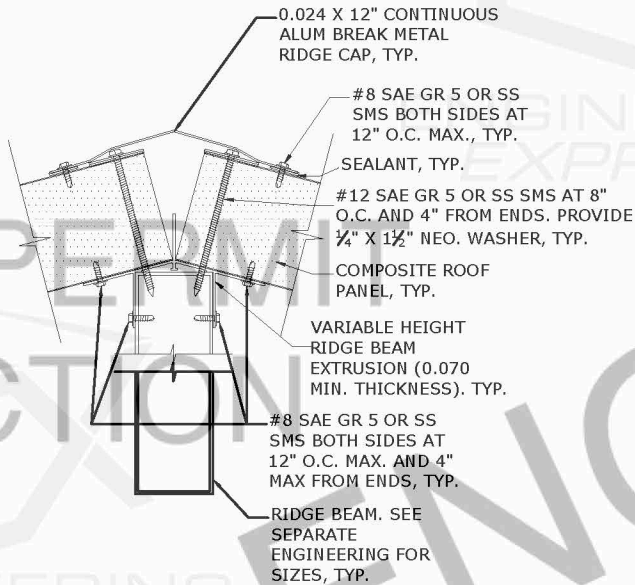
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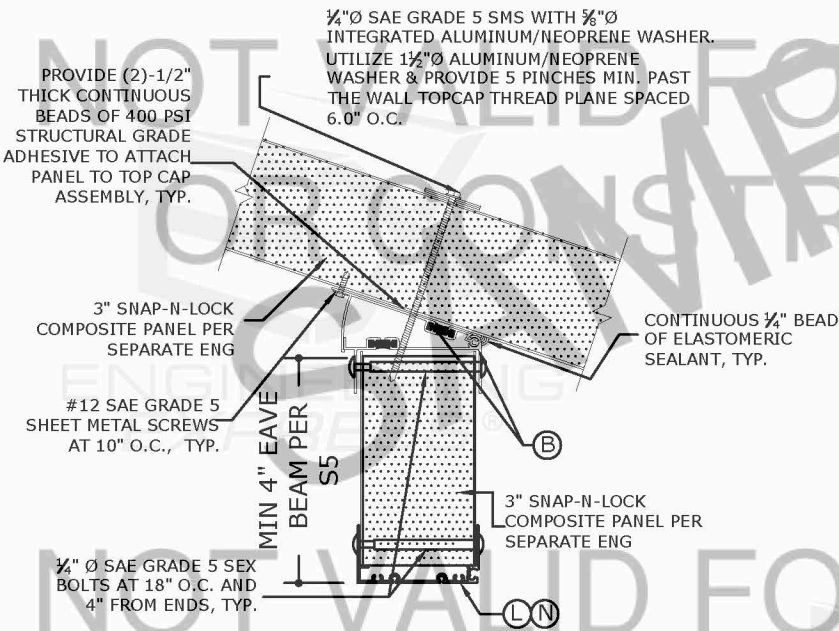
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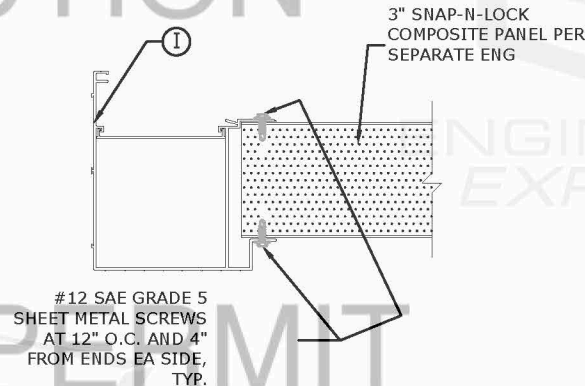
1.1 ROOF PANEL TO RIDGE BEAM
N.T.S. SECTION



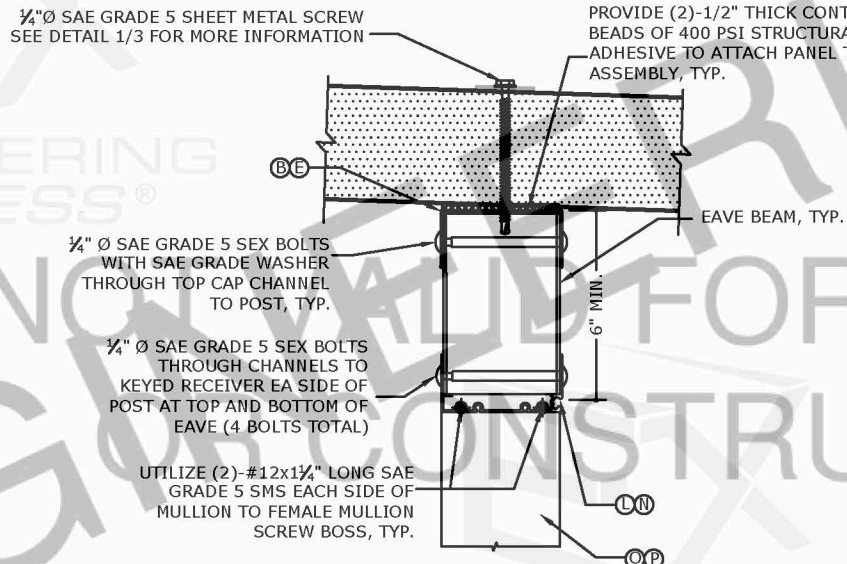
1.2 ROOF PANEL TO RIDGE BEAM
N.T.S. SECTION



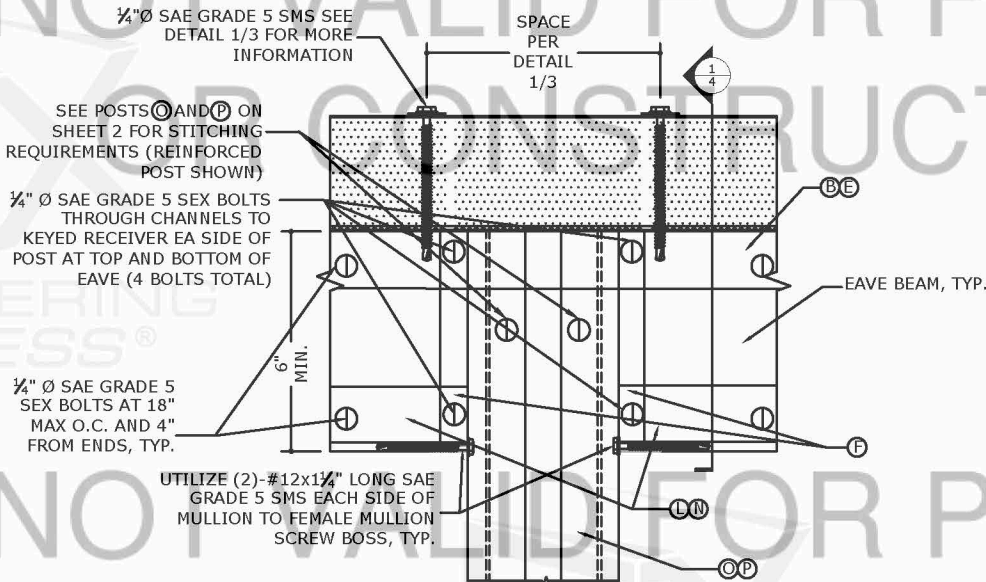
3 ROOF TO WALL PANEL
AT EAVE
N.T.S. SECTION



4 ROOF PANEL GUTTER
DETAIL
N.T.S. SECTION



2 CONNECTION AT EAVE & POST
OPTION #1
N.T.S. SECTION



5 CONNECTION AT EAVE & POST
OPTION #1
N.T.S. ELEVATION

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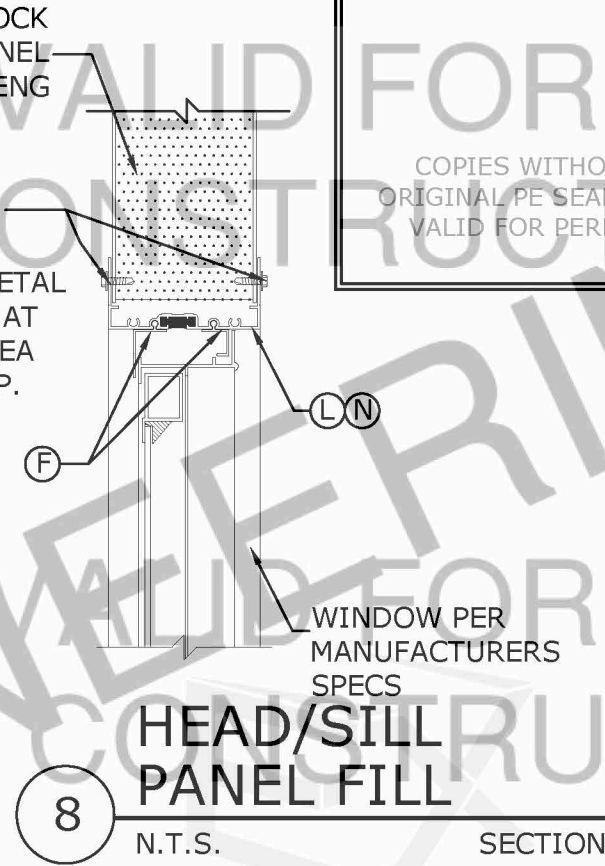
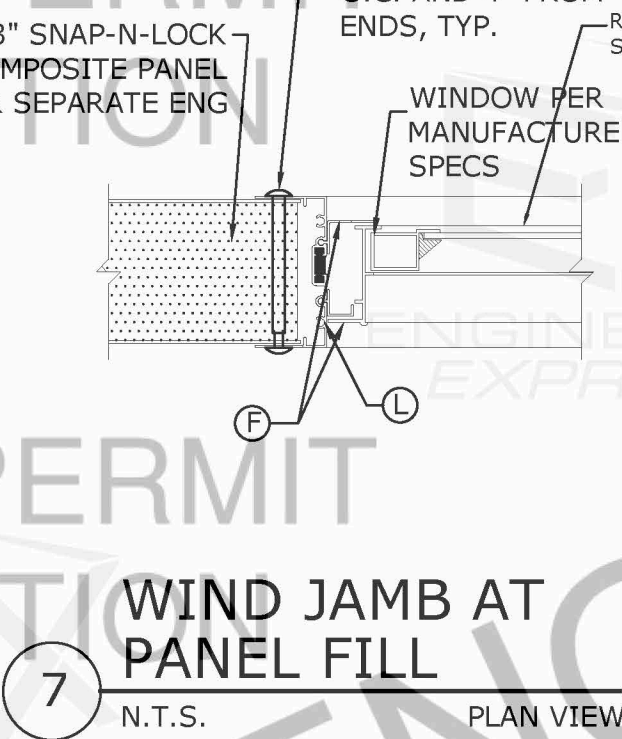
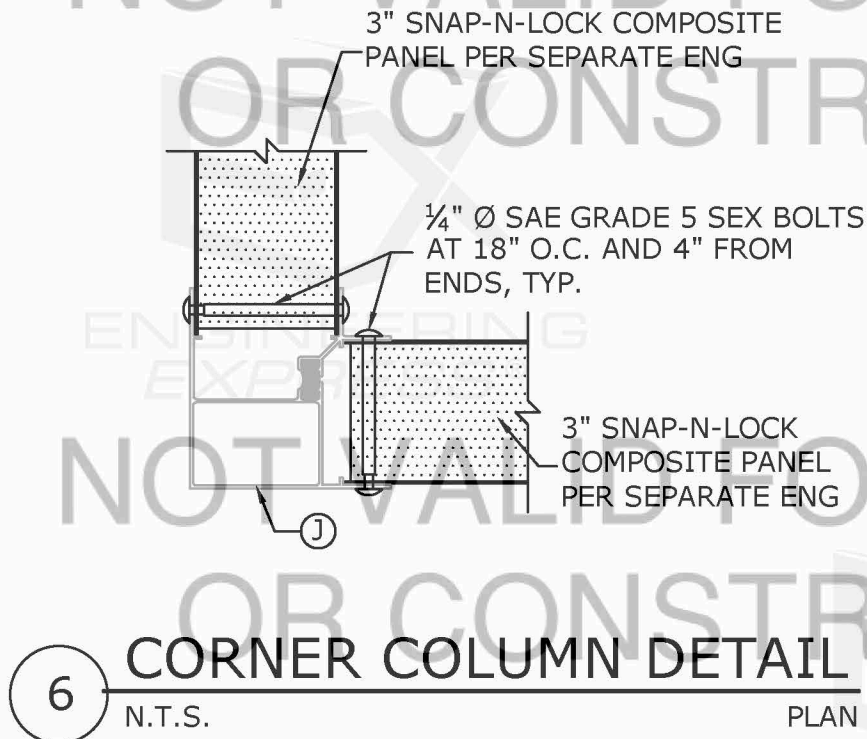
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2023 FBC (23-69337)	01/05/24								

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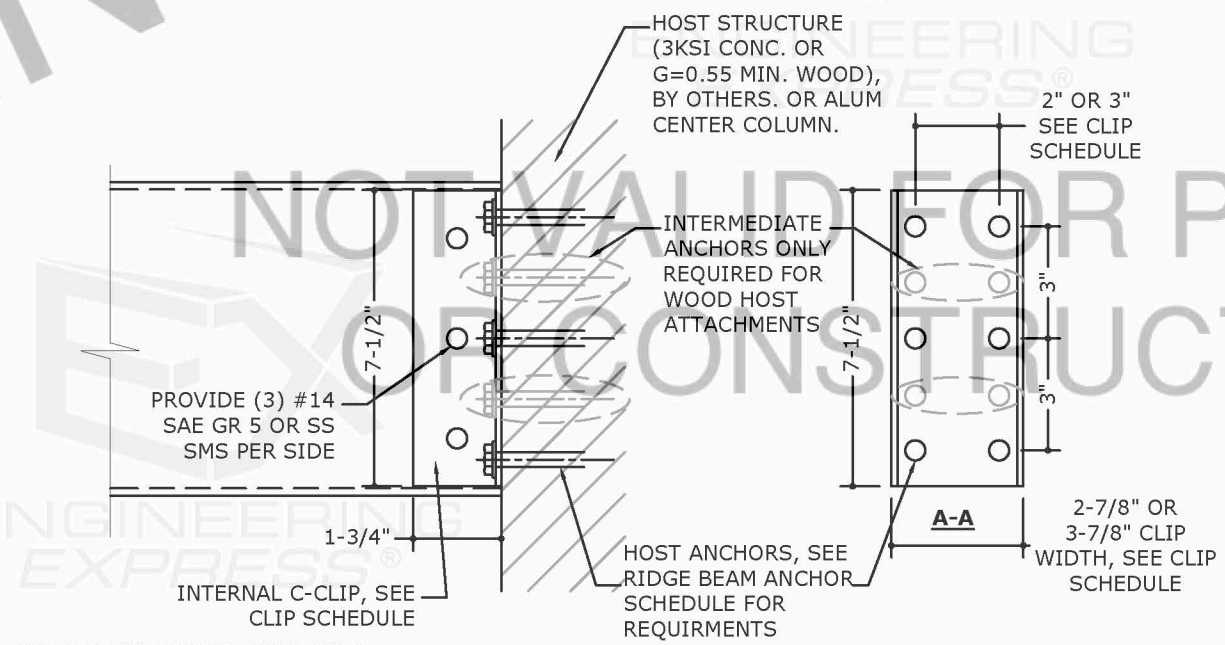
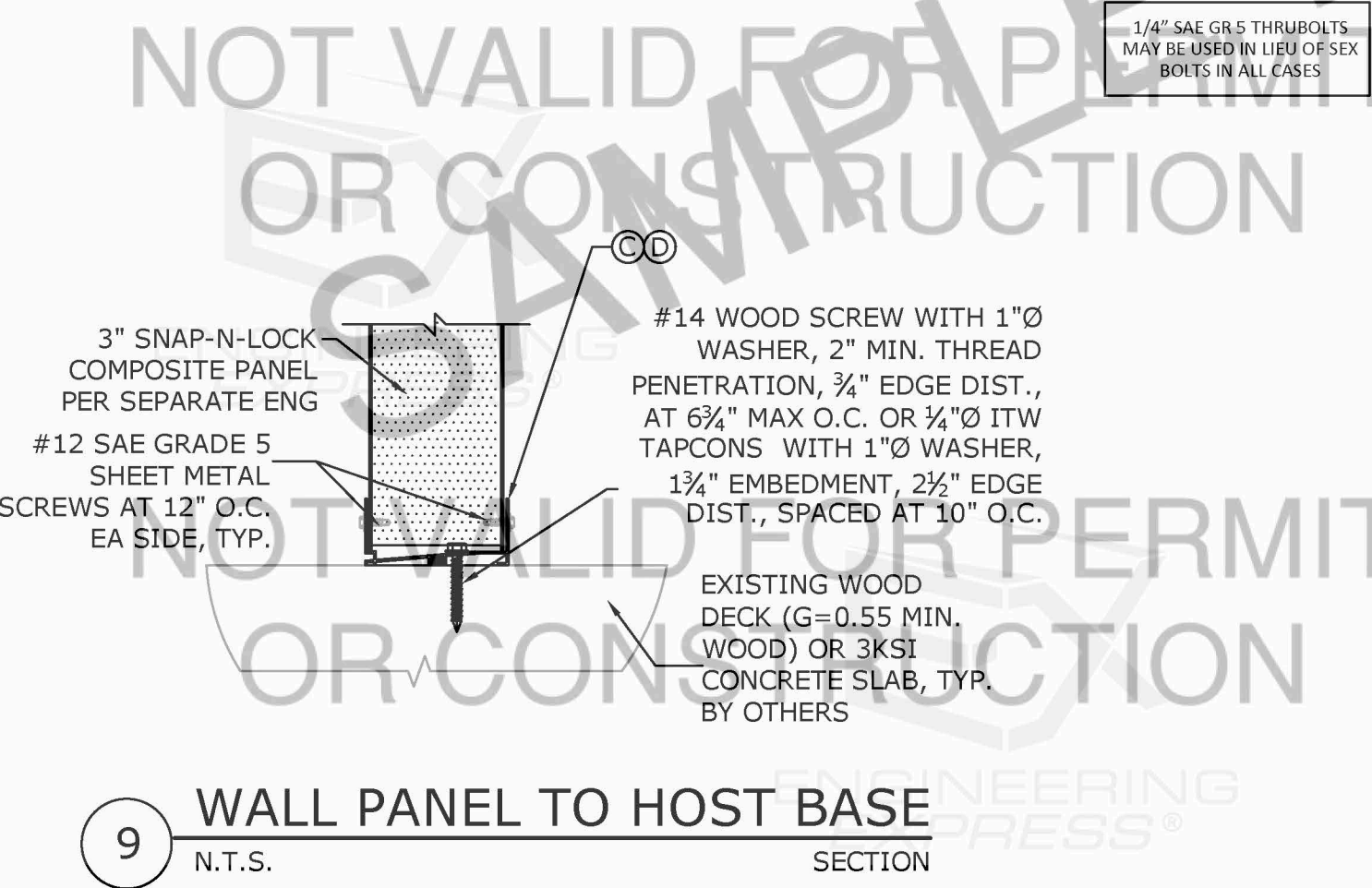
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RIDGE BEAM ANCHOR SCHEDULE				
RIDGE BEAM OPTION	CLIP WIDTH	ANCHOR TYPE (TO CONCRETE)	NO. OF ANCHORS (TO CONCRETE)	MAX ALLOWABLE DESIGN SHEAR
OPTION 1	2-7-8"	1/4" ITW TAPCON W/ 1-3/4" EMBED. AND 4" EDGE DIST.	6	1,670 LB
OPTION 2	3-7/8"	1/4" ITW TAPCON W/ 1-3/4" EMBED. AND 4" EDGE DIST.	6	1,670 LB

RIDGE BEAM OPTION	ANCHOR TYPE (TO WOOD)	NO. OF ANCHORS (TO WOOD)	MAX ALLOWABLE DESIGN SHEAR
OPTION 1	1/4" WOOD SCREW W/ 2" MIN. THREAD PENETRATION AND 1" FROM ANY WOOD EDGE	10	2,686 LB
OPTION 2	1/4" WOOD SCREW W/ 2" MIN. THREAD PENETRATION AND 1" FROM ANY WOOD EDGE	10	2,686 LB

* FOR RIDGE BEAM ATTACHMENT TO ALUMINUM CENTER COLUMN, PROVIDE (6) #14 SAE GR 5 OR SS SMS PER THE ABOVE DETAIL

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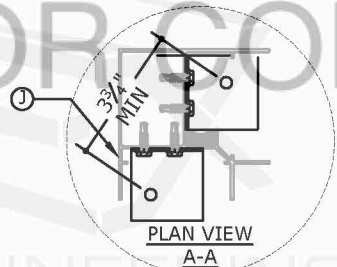
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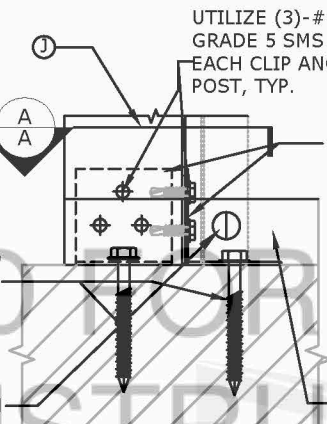
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POST CONNECTION

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MAY BE USED IN LIEU OF SEX
BOLTS IN ALL CASES



(1)- 3/4" ITW TAPCON WITH 1 1/2" Ø WASHER PER ANGLE, 2 1/4" EMBED, 3/8" EDGE, 3/4" MIN. SPACING TO ANY ADJACENT CONCRETE ANCHOR OR (4)- 1/4" Ø LAG SCREWS WITH 1" Ø WASHER, 2 1/2" THREAD PENETRATION, 1" EDGE DISTANCE, 1" MIN. SPACING TO ANY ADJACENT WOOD ANCHOR, TYP.



2"x2"x0.063"x2" LONG 6063-T6 ALUMINUM ANGLE, (1) EA SIDE OF POST ON THE INSIDE FACE (2 CLIPS TOTAL). SEE PLAN VIEW A-A FOR PLACEMENT INFORMATION, TYP.

1/4" Ø SAE GRADE 5 SEX BOLTS WITH SAE GRADE WASHER THROUGH TOP CAP CHANNEL TO POST, TYP.

1
6
TYPICAL CORNER POST TIE-DOWN FOR ALL SYSTEMS
3" = 1'-0"

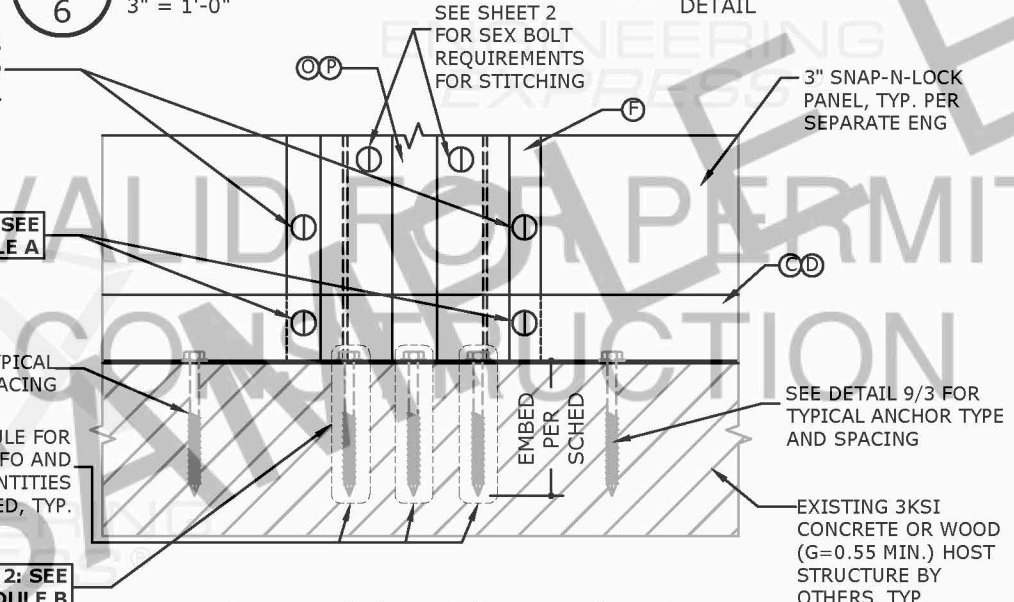
1/4" Ø SAE GRADE 5 SEX BOLTS THROUGH KEYED RECEIVER TO PANEL, TYP.

ANCHOR #1: SEE SCHEDULE A

SEE DETAIL 9/3 FOR TYPICAL ANCHOR TYPE AND SPACING

SEE SCHEDULE FOR ANCHOR INFO AND QUANTITIES REQUIRED, TYP.

ANCHOR #2: SEE SCHEDULE B



2
6
TYPICAL POST CONNECTION FOR GLASS WALL SYSTEMS
N.T.S.

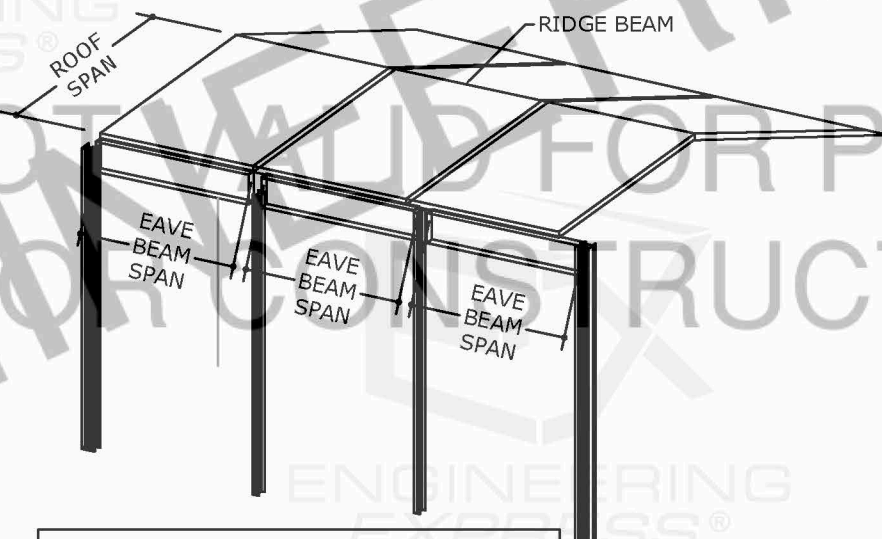
ANCHOR TYPE #1 SCHEDULE A:

WIND TIER	ANCHOR TYPE	DESCRIPTION
UP TO 25 PSF	1	(2)-3/8" Ø SAE GRADE 5 SEX BOLT WITH 3/8" SAE GRADE WASHER

ANCHOR TYPE #2 SCHEDULE B:

WIND TIER	ANCHOR 2 SUBSTRATE	QUANTITY REQUIRED
UP TO 25 PSF	CONNECTION AT CONCRETE	(2)-3/8" Ø ITW TAPCONS WITH 1 1/2" Ø WASHER, 2 1/2" EMBED, 3" EDGE, 4" SPACING, TYP.
	CONNECTION AT WOOD	(4)-1/4" Ø LAG SCREWS 1 1/2" Ø WASHER, 2 1/2" THREAD PENETRATION, 1" EDGE, 1" SPACING

EAVE BEAM CLEAR SPAN ISOMETRIC DETAIL*



* GLAZING NOT SHOWN FOR CLARITY

3
6
EAVE-BEAM SPACING ISOMETRIC
N.T.S.

EAVE BEAM SPANS:

4" MIN. PANEL DEPTH:
EAVE BEAM SPAN= 5'-0" UP TO 50PSF
EAVE BEAM SPAN= 6'-0" UP TO 40PSF
MAX ALLOWABLE CLEAR ROOF SPAN= 12'-0"

8" OR GREATER PANEL DEPTH:
EAVE BEAM SPAN= 6'-0" UP TO 60PSF
AT 20' CLEAR ROOF SPAN

SITE SPECIFIC ENGINEERING FOR ADDITIONAL SPANS
DEFLECTION LIMIT = L/180.

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350 BURBANK RD
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(813) 855 - 2627

GABLE MODULAR GLASS SUNROOM
NON HABITABLE SPACE - PERFORMANCE EVALUATION
FBC 7TH (2020) & 8TH (2023) EDITIONS, IBC (2018)

REMARKS	DRWN	CHKD	DATE
ORIGINAL PROJECT (20-26259)	RWN	RWN	7/23/19
2020 FBC (20-26259)	TT	FLB	6/02/20
2021 FORMATTING (20-26259)	CCB	FLB	11/22/21
2023 FBC (23-69337)	CLV	CCB	01/05/24

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POST ALLOWABLE SPAN HEIGHTS

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POST TYPE	Lateral Wind Load PSF	Max Roof Load PSF	AVERAGE C/C POST SPACING (FT)			
			2'-0"	3'-0"	4'-0"	5'-0"
			ALLOWABLE POST HEIGHT (FT)			
3" MOD ROOM (FEMALE + FEMALE) w/ 3x3 INSERT	20 PSF	40 PSF	12'-0"	12'-0"	12'-0"	11'-5"
	30 PSF	40 PSF	12'-0"	11'-10"	10'-9"	9'-12"
3" THERMO MOD ROOM (FEMALE + FEMALE) w/ 3x3 INSERT	20 PSF	40 PSF	12'-0"	12'-0"	12'-0"	11'-5"
	30 PSF	40 PSF	12'-0"	11'-10"	10'-9"	9'-12"
THERMO MOD ROOM CORNER POST	20 PSF	30 PSF	12'-0"	12'-0"	11'-4"	10'-2"
	30 PSF	40 PSF	12'-0"	10'-8"	9'-3"	8'-3"

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2021 FORMATTING (20-26259)	CCB	FLB	11/22/21
2023 FBC (23-69337)	CLV	CCB	07/05/24

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23-69337

SCALE: NTS UNLESS NOTED

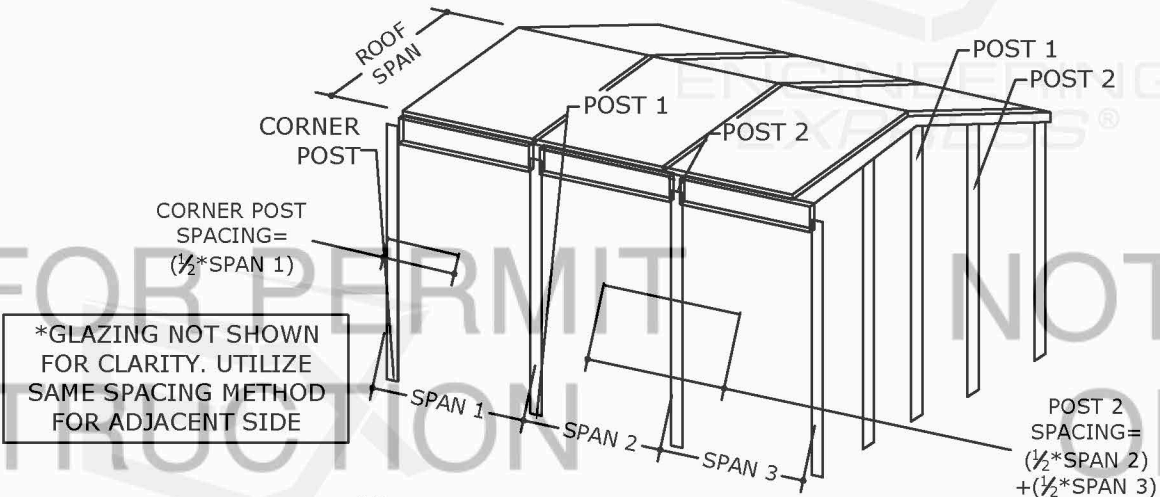
7

OF 7

TABLE NOTES:

- SPANS APPLY TO MORE CRITICAL LOAD BEARING SIDE OF ENCLOSURE.
- ROOF LIVE LOAD CONSIDERS COMPRESSION ON POST UP TO 20' TOTAL ROOF SUPPORTING SPAN & LISTED AVERAGE COLUMN SPACING.
- SPANS FOR THERMALLY BROKEN POSTS SHALL BE REDUCED BY 10%.
- DEFLECTION LIMIT = L/180.
- VALUES BELOW ALLOWABLE CEILING HEIGHT OR POST HEIGHT MAY BE BUILT ON KNEEWALLS OR OTHER SUPPORTING STRUCTURES (CERTIFIED BY OTHERS).
- LOADING CRITERIA CONSIDERED IS THE GOVERNING CASE OF THE FOLLOWING SCENARIOS:
 - 2PSF ROOF DEAD LOAD & 20 PSF-40 PSF SOLID ROOF LIVE LOAD USED IN TABLES
 - WALL WIND LOADS TO BE APPLIED PER ASCE 7-22 OR ASCE 7-16 C&C METHOD (THESE ARE PERFORMANCE TABLES).

AVERAGE POST SPACING DEFINED *



1 POST SPACING ISOMETRIC
7 N.T.S. ISOMETRIC