

SERIES 230 WALL SYSTEM FOR SUNROOM

- FOR USE IN NON-HABITABLE SUNROOMS ONLY AS DESCRIBED IN AAMA/NPEA/NSA 2100.
 - FOR USE AS A CATEGORY IV SUNROOM IF SYSTEM MEETS THERMAL PERFORMANCE AS DESCRIBED IN SECTION 7 IN AAMA/NPEA/NSA 2100.
 - FOR USE IN FOUR SEASONS SERIES 230 SUN & SHADE AND SERIES 230 SUN & STARS MODELS
 - THESE PLANS APPLY ONLY TO WALL PANEL SYSTEM. FOR ROOF & WINDOW/DOOR APPROVAL INFORMATION, REFER TO RESPECTIVE FLORIDA PRODUCT APPROVALS. ALL OTHER ROOF PARTS DESCRIBED HEREIN ARE FOR ILLUSTRATION PURPOSES ONLY
 - FOR USE LARGE MISSILE IMPACT AREAS, ADEQUATE LARGE MISSILE IMPACT PROTECTION SHALL BE APPLIED AT THE HOST STRUCTURE OPENINGS.
 - THE HOST STRUCTURE IS NOT TO BE MODIFIED OR OPENED WITH THE USE OF THIS PRODUCT.
- THIS SYSTEM IS NOT CAPABLE TO BECOME A LARGE MISSILE IMPACT SUNROOM.

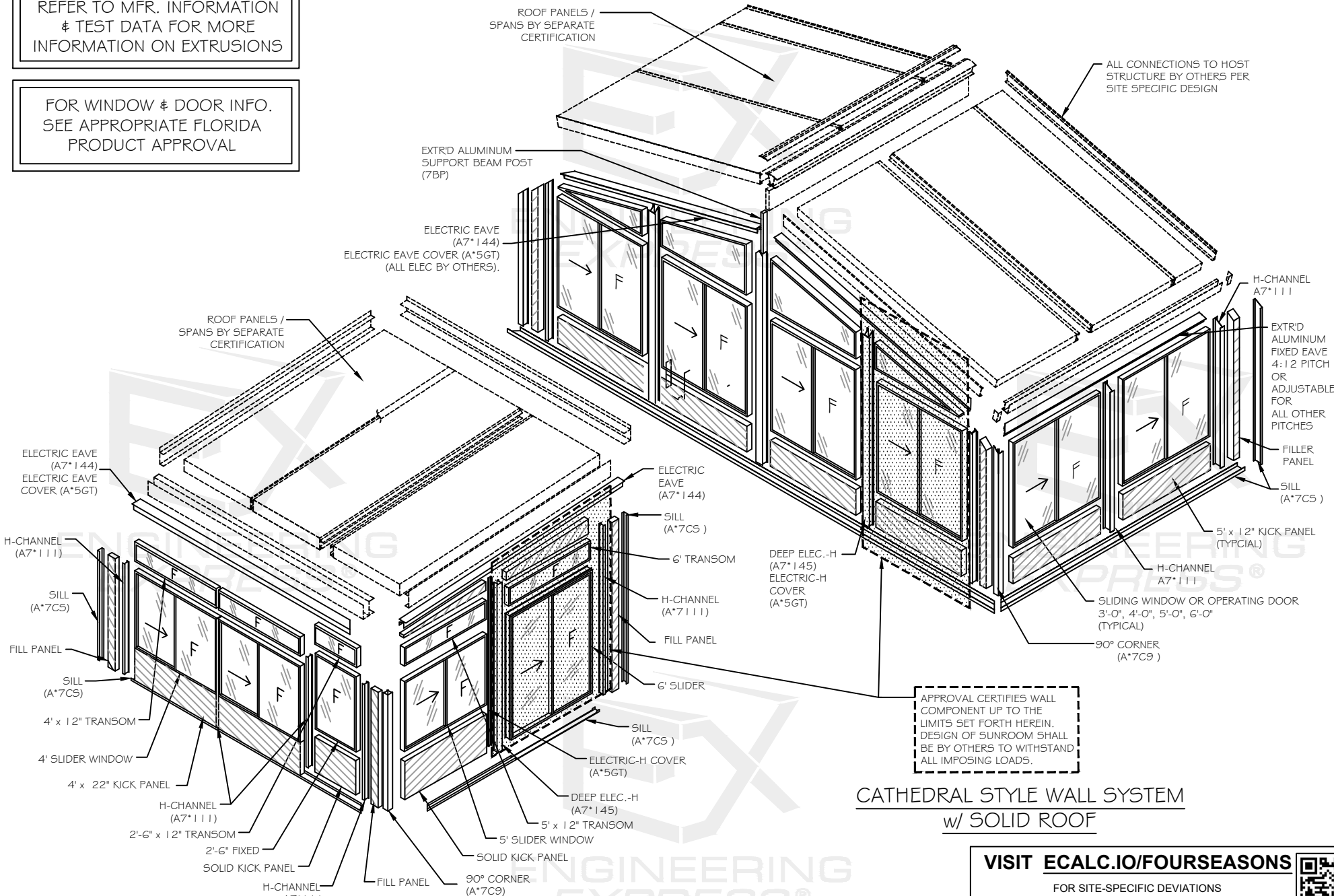
NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN **FLORIDA ONLY**. USE IN FLORIDA OR ANY OTHER STATE SHALL REQUIRE A REVIEW & CERTIFICATION BY A REGISTERED DESIGN PROFESSIONAL LICENSED IN THAT STATE, WHO SHALL BE RESPONSIBLE FOR THE CONTENT & PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE FOR ASSISTANCE WITH YOUR PROJECT NEEDS.

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REFER TO MFR. INFORMATION & TEST DATA FOR MORE INFORMATION ON EXTRUSIONS

FOR WINDOW & DOOR INFO. SEE APPROPRIATE FLORIDA PRODUCT APPROVAL



CATHEDRAL STYLE WALL SYSTEM
w/ SOLID ROOF

STRAIGHT EAVE STYLE WALL SYSTEM
w/ SOLID ROOF

APPROVAL CERTIFIES WALL COMPONENT UP TO THE LIMITS SET FORTH HEREIN. DESIGN OF SUNROOM SHALL BE BY OTHERS TO WITHSTAND ALL IMPOSING LOADS.

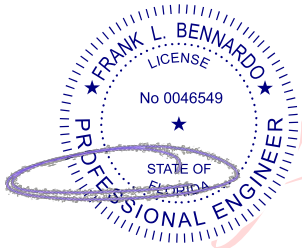
VISIT [ECALC.IO/FOURSEASONS](https://www.ecalc.io/fourseasons)

FOR SITE-SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS QR CODE

VISIT [ENGINEERINGEXPRESS.COM/STORE](https://www.engineeringexpress.com/store) FOR ADDITIONAL PLANS, REPORTS & RESOURCES



FRANK BENNARDO, PE
PE# 46549 CA# 9885



AUGUST 18, 2026

Digitally signed by
Frank Bennardo
Date: 2026.08.18
20:01:57 -04'00'

(NON IMPACT APPROVED)
MAXIMUM ALLOWABLE DESIGN
PRESSURES (A.S.D.):

+40 PSF / -40 PSF

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 THE GOVERNING CODE. SITE-SPECIFIC PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-22 AND CHAPTER 1609 OF THE FLORIDA BUILDING CODE 9TH EDITION (2026) SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
2. SYSTEM TO BE USED AS AN AAMA 2100 CATEGORY I-IV ONLY & AS PER FBC 2002.6
3. THE HOST STRUCTURE IS NOT TO BE MODIFIED WITH THE ADDITION OF THIS SUNROOM.

GENERAL NOTES:

1. THIS SPECIFICATION HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 9TH EDITION (2026) FOR USE WITHIN AND OUTSIDE THE HVHZ. CONTRACTOR SHALL INVESTIGATE AND CONFORM TO ALL LOCAL BUILDING CODE AMENDMENTS WHICH MAY APPLY. DESIGN CRITERIA BEYOND AS STATED HEREIN MAY REQUIRE ADDITIONAL SITE-SPECIFIC SEALED ENGINEERING.
2. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR.
3. SEPARATE 'SITE-SPECIFIC' SEALED ENGINEERING SHALL BE REQUIRED IN ORDER TO DEVIATE FROM LOADS, DEFLECTIONS, OR SPANS CONTAINED HEREIN. CONTACT THIS ENGINEER FOR ALTERNATE SPAN CALCULATIONS AS MAY BE REQUIRED.
4. 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.
5. THE CONTRACTOR SHALL CAREFULLY CONSIDER POSSIBLE IMPOSING LOADS ON ROOF, INCLUDING BUT NOT LIMITED TO ANY CONCENTRATED LOADS WHICH MAY JUSTIFY GREATER DESIGN CRITERIA. THIS ADDITIONAL ROOF LOAD CRITERIA SHALL BE PROPERLY ANALYZED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT.
6. THE CONTRACTOR IS RESPONSIBLE TO INSULATE OR PROTECT ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
7. ENGINEER SEAL AFFIXED HERE TO 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.
8. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
9. ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
10. FOR PERMANENT OUTDOOR INSTALLATIONS, ALL EXPOSED ANCHORS, FASTENERS, CONNECTORS, AND METAL PLATES SHALL BE CORROSION RESISTANT. CORROSION RESISTANCE MAY BE PROVIDED BY INHERENT MATERIAL COMPOSITION OR, WHERE PERMITTED BY CODE, BY AN APPROVED PROTECTIVE COATING OR GALVANIZATION. WHERE APPLICABLE NEAR A SALTWATER COASTLINE, SUCH COMPONENTS SHALL COMPLY WITH FBC SECTION 1711, INCLUDING APPLICABLE REQUIREMENTS FOR EXPOSED, PROTECTED, OR ENCLOSED CONDITIONS. MATERIALS, COATINGS, AND FINISHES SHALL BE COMPATIBLE WITH CONNECTED MATERIALS, AND PROTECTIVE COATINGS SHALL BE CONTINUOUS OVER EXPOSED SURFACES. FASTENERS USED WITH ALUMINUM MEMBERS SHALL ALSO COMPLY WITH SECTION J.3.7.2 OF THE ALUMINUM DESIGN MANUAL, "SPECIFICATION FOR ALUMINUM STRUCTURES." SUBSTITUTION OF COMPONENTS FROM ALTERNATE MANUFACTURERS, OR WITH DIFFERENT MATERIALS, COATINGS, OR FINISHES, SHALL NOT BE ASSUMED EQUIVALENT AND MAY REQUIRE ADDITIONAL ENGINEERING REVIEW OR SITE-SPECIFIC ANALYSIS.

SYSTEM PERFORMANCE

DERIVATIONS:

1. SYSTEM PERFORMANCE DERIVED FROM CERTIFIED TEST REPORTS Nos. TT507017-202 BY TERRAPIN TESTING AND 08066b.1 BY WESTERN FIRE CENTER, INC.

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PH: (631) 563-4000

SERIES 230 WALL SYSTEM FOR SUNROOM

FLORIDA BUILDING CODE NINTH EDITION (2026)

FLORIDA STATEWIDE APPROVAL (FSA FL#12109.1)

DATE	DRWN	CHKD	TAE	AJP	SQ	RS	MN	MZ
04/24/21								
07/12/23								
08/18/26								

REMARKS

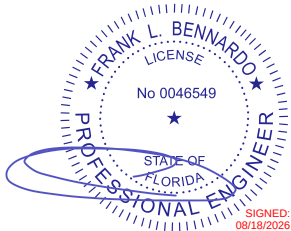
2020 FBC (21-39494)								
2023 FBC UPDATE								
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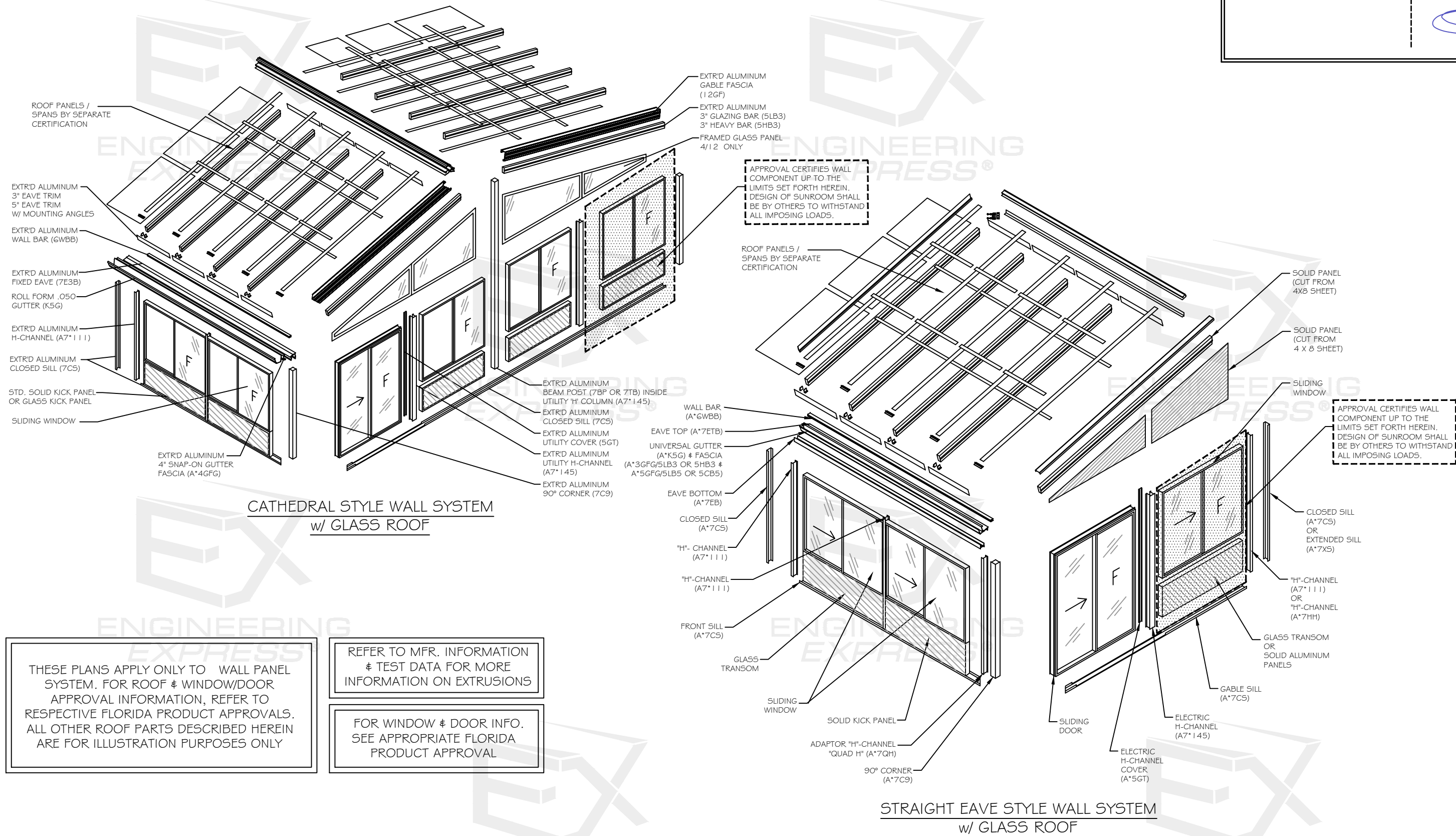
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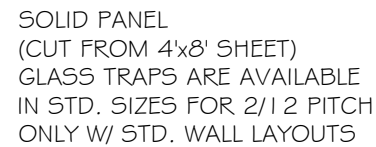
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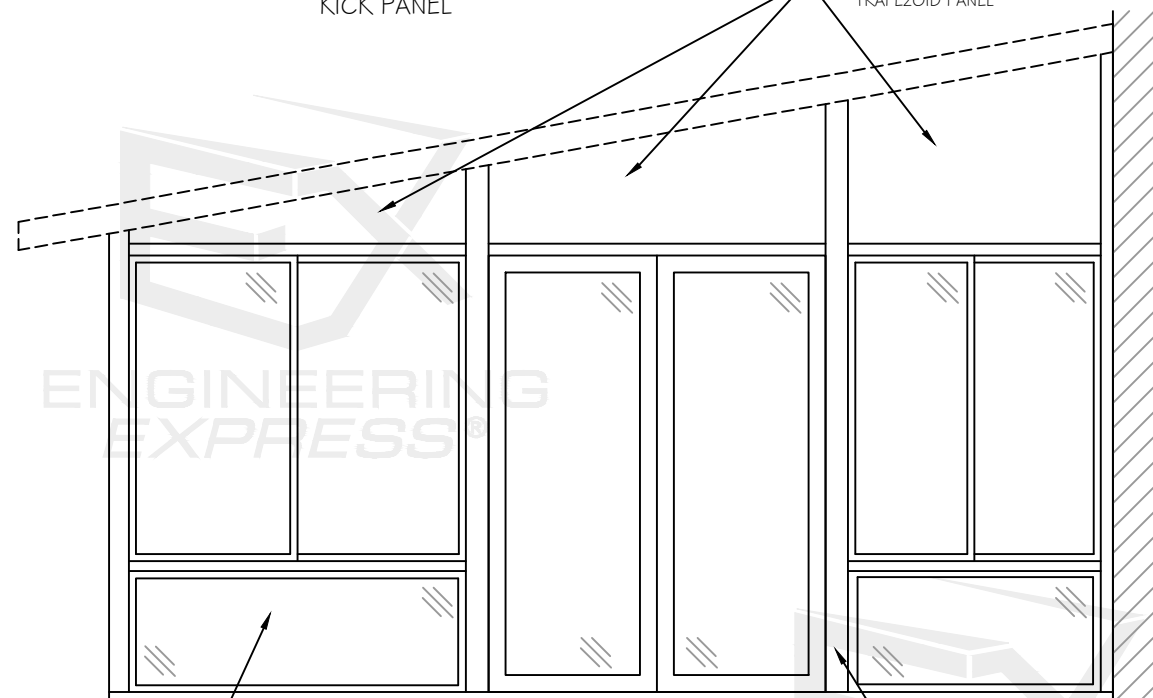
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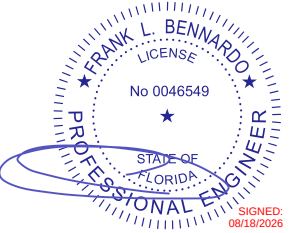
FOR WINDOW & DOOR INFO.
SEE APPROPRIATE FLORIDA
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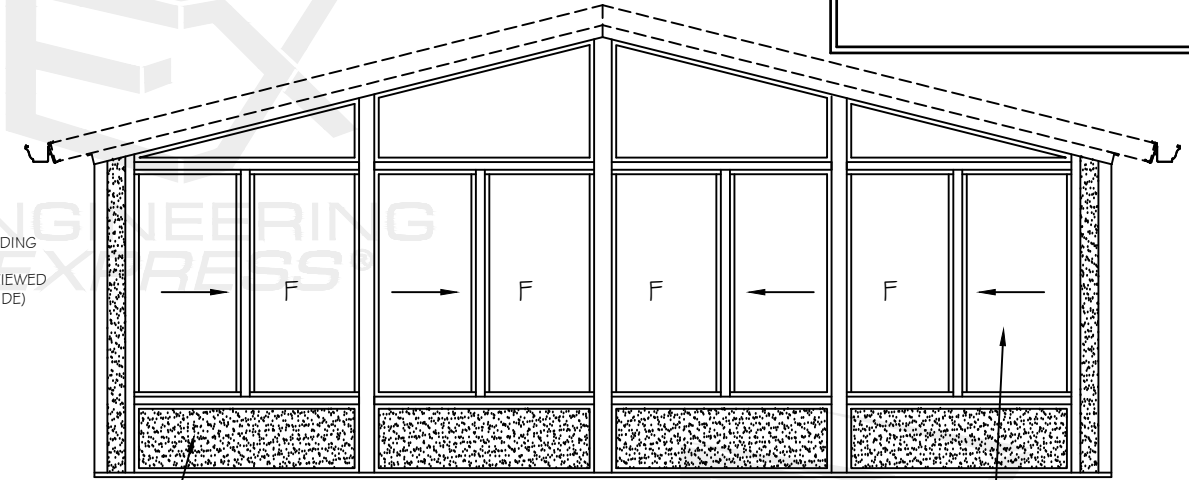
UTILITY 'H'
W/ 7BP

MAX. OVERALL WALL SYSTEM WIDTH AT 8' 9 3/4" AND
MAX. OVERALL WALL SYSTEM HEIGHT AT 7' 8 3/8"
REFER TO SHEET 05 FOR DETAILED DIMENSIONS



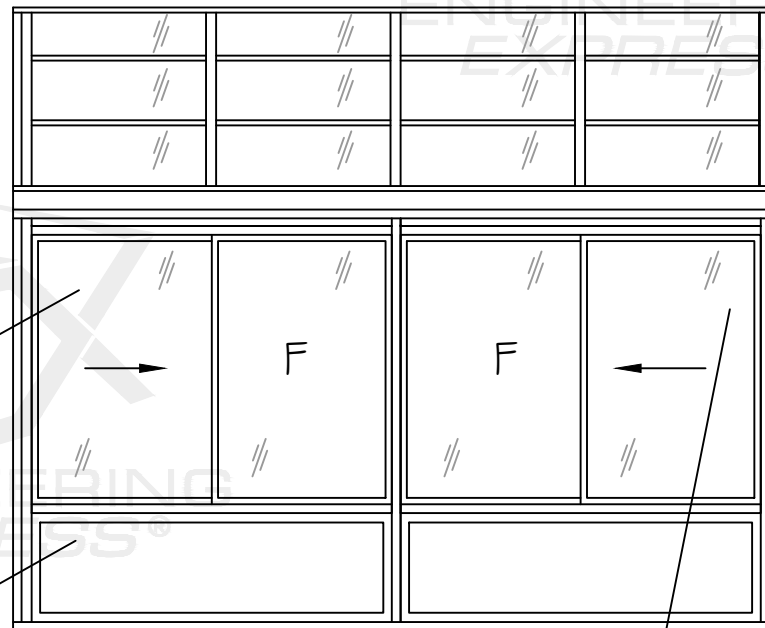


TYPICAL FRONT ELEVATION



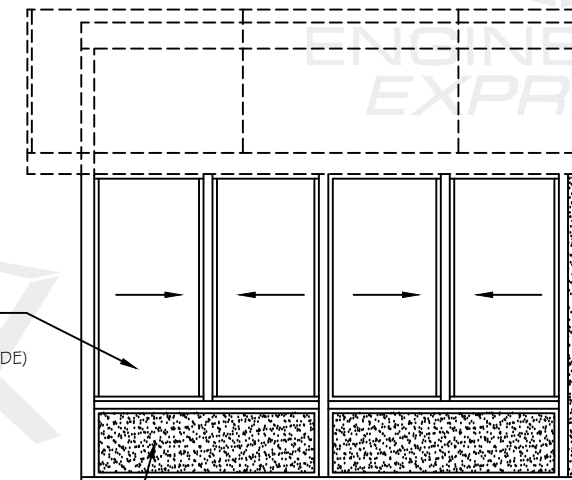
FRONT ELEVATION

OPTIONAL
REVERSE SLIDING
WINDOW
(R TO L AS VIEWED
FROM OUTSIDE)



SIDE ELEVATION

OPTIONAL
REVERSE SLIDING
WINDOW
(R TO L AS VIEWED
FROM OUTSIDE)



RIGHT SIDE ELEVATION

L KICK PANEL

MAX. OVERALL WALL SYSTEM WIDTH AT 8' 9 3/4" AND
MAX. OVERALL WALL SYSTEM HEIGHT AT 7' 8 3/8"
REFER TO SHEET 05 FOR DETAILED DIMENSIONS

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FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#12109.1)

REMARKS	DRWN	CHKD	DATE
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2026 FBC UPDATE	MZ	MIN	08/18/26
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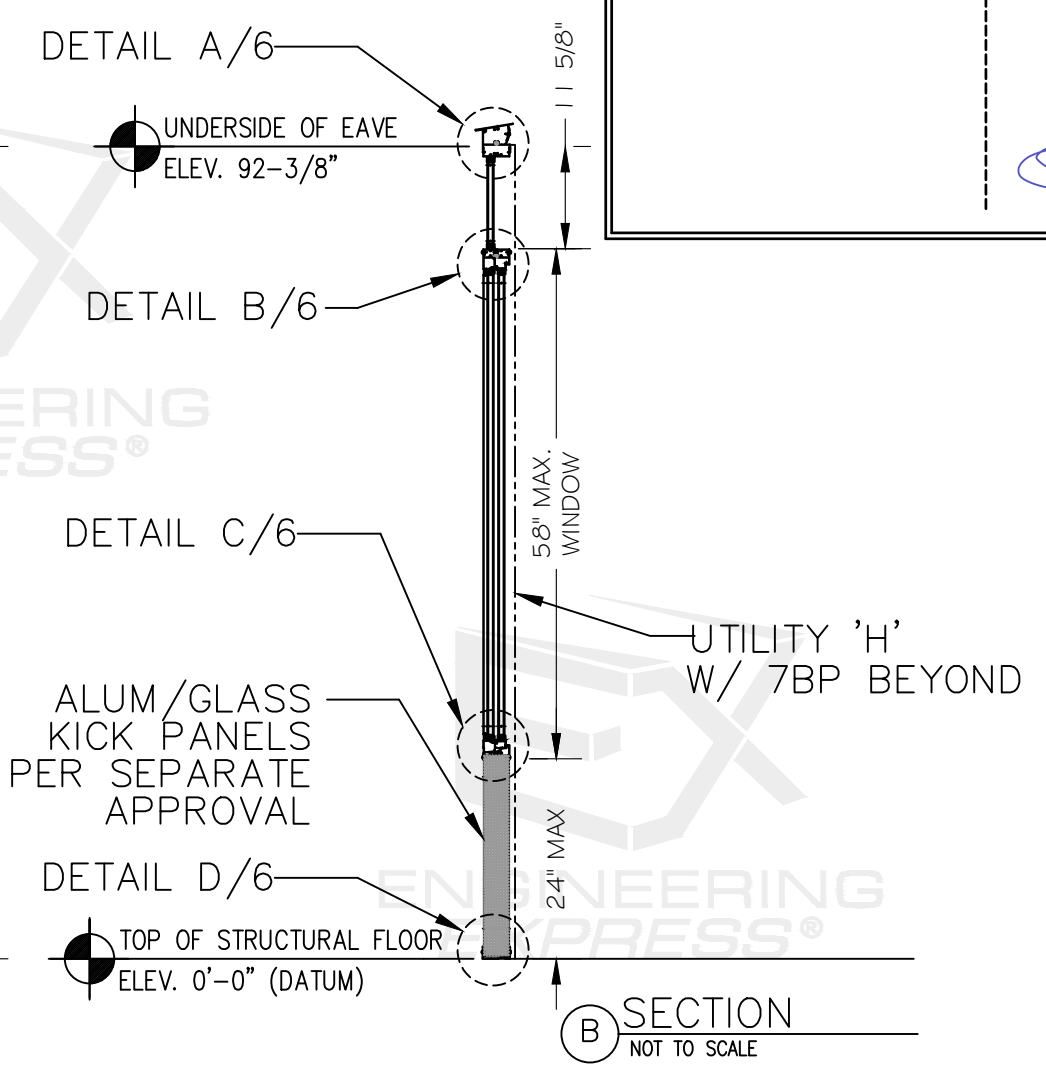
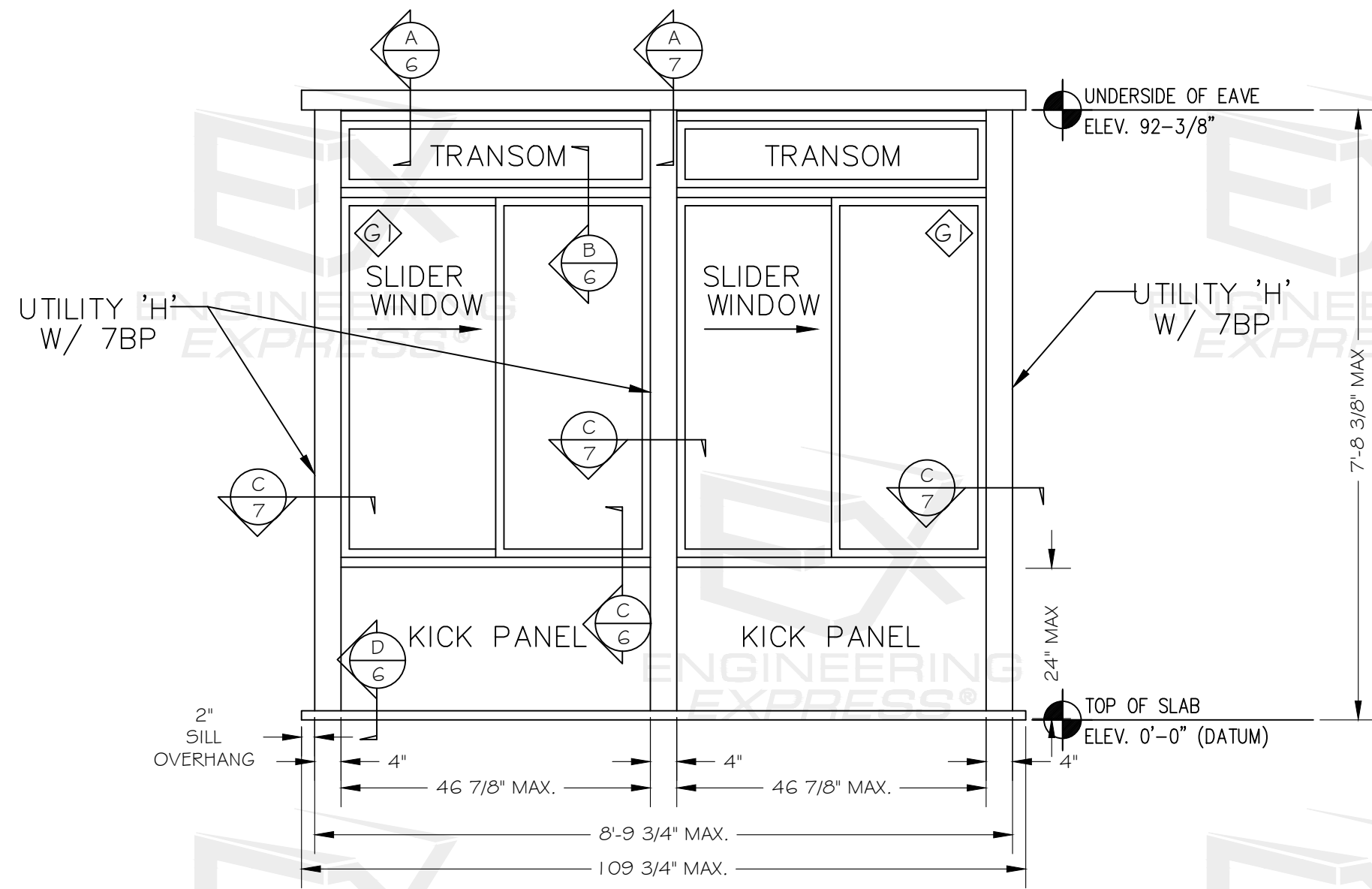
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FRANK BENNARDO, PE
PE# 46549 CA# 9885

AUGUST 18, 2026

FRANK L. BENNARDO
LICENSE
No 0046549
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
SIGNED:
08/18/2026



NOTES:
1. THIS WINDOW IS APPROVED ONLY FOR INSTALLATION INTO SEPARATELY ENGINEERED FOUR SEASONS ALUMINUM SUNROOM. INSTALLATION INTO ANY OTHER SUBSTRATE SHALL REQUIRE A SEPARATE, SITE SPECIFIC DESIGN TO BE PREPARED BY A FL-REGISTERED PROFESSIONAL ENGINEER, AND SUBMITTED TO THE AUTHORITY HAVING JURISDICTION FOR APPROVAL.
2. ALL FASTENERS SHALL PENETRATE SHEET METAL WITH THREE FULL THREAD PITCHES.

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(A) TYP. WALL ELEVATION
NOT TO SCALE

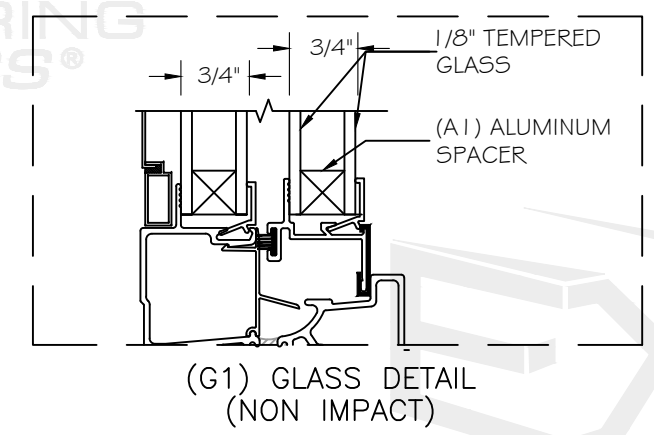
REFER TO MFR. INFORMATION & TEST DATA FOR MORE INFORMATION ON EXTRUSIONS

FOR WINDOW & DOOR INFO, SEE APPROPRIATE FLORIDA PRODUCT APPROVAL

WATER PENETRATION PER TAS202 : 6 PSF
AIR INFILTRATION PER TAS202

NOTE:
WALL SYSTEM DOES NOT NEED TO COMPLY WITH TAS 201 AND TAS 203 WHEN USED IN HVHZ AREAS AS LONG AS FULL HEIGHT HURRICANE SHUTTERS COMPLYING WITH TAS 201, TAS 202 AND TAS 203 ARE UTILIZED IN ACCORDANCE WITH FLORIDA BUILDING CODE SEVENTH EDITION (2020)

NOTE:
1. GLASS THICKNESS COMPLIES WITH ASTM E1300 REQUIREMENTS.
2. SETTING BLOCK SHALL COMPLY WITH 2411.3.3.1 OF THE FLORIDA BUILDING CODE SEVENTH EDITION (2020)



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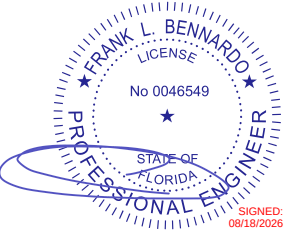
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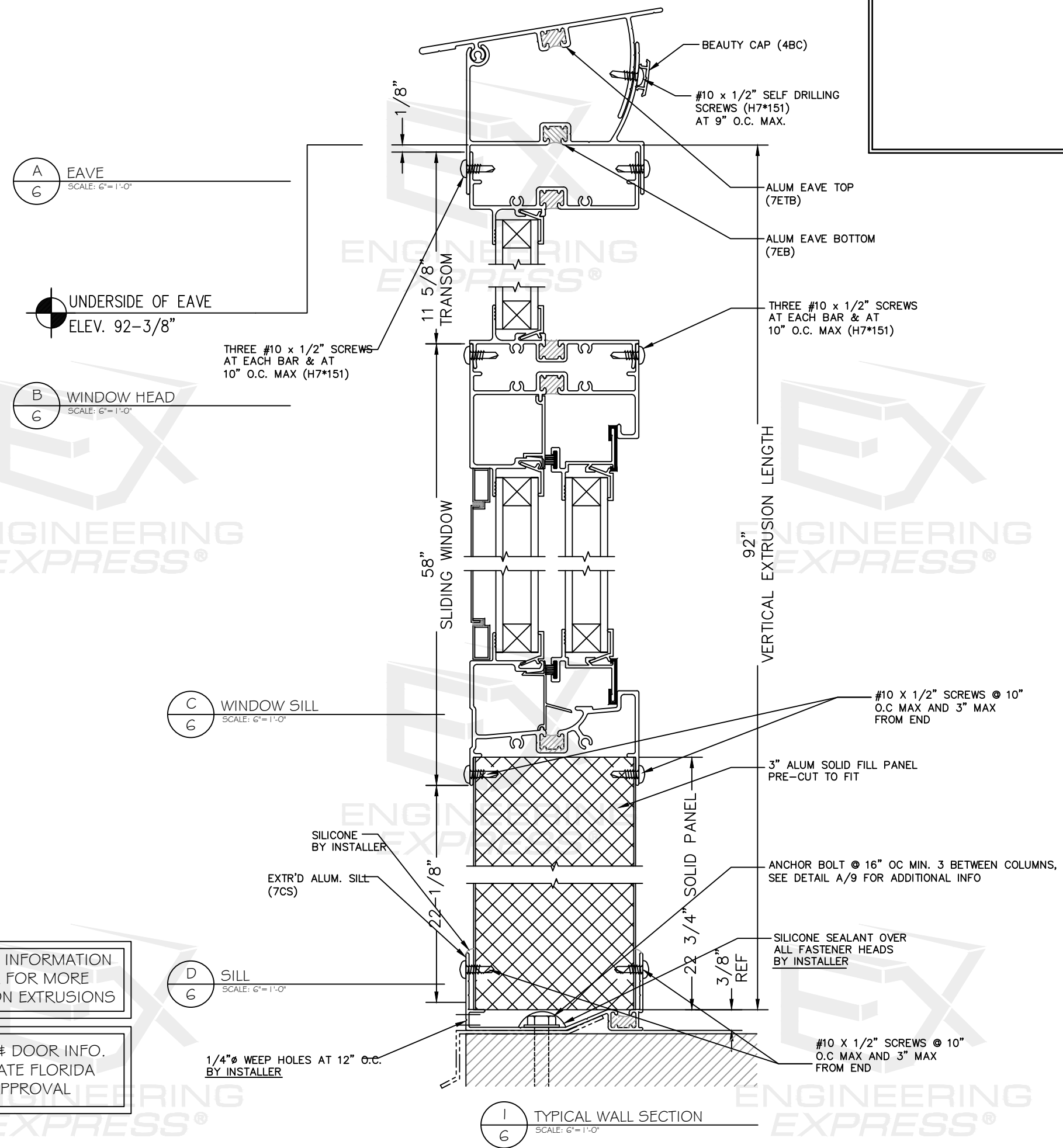
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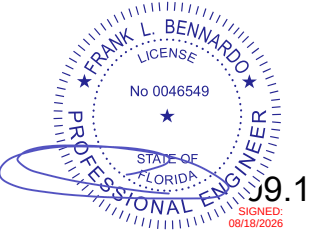
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FOR WINDOW & DOOR INFO.
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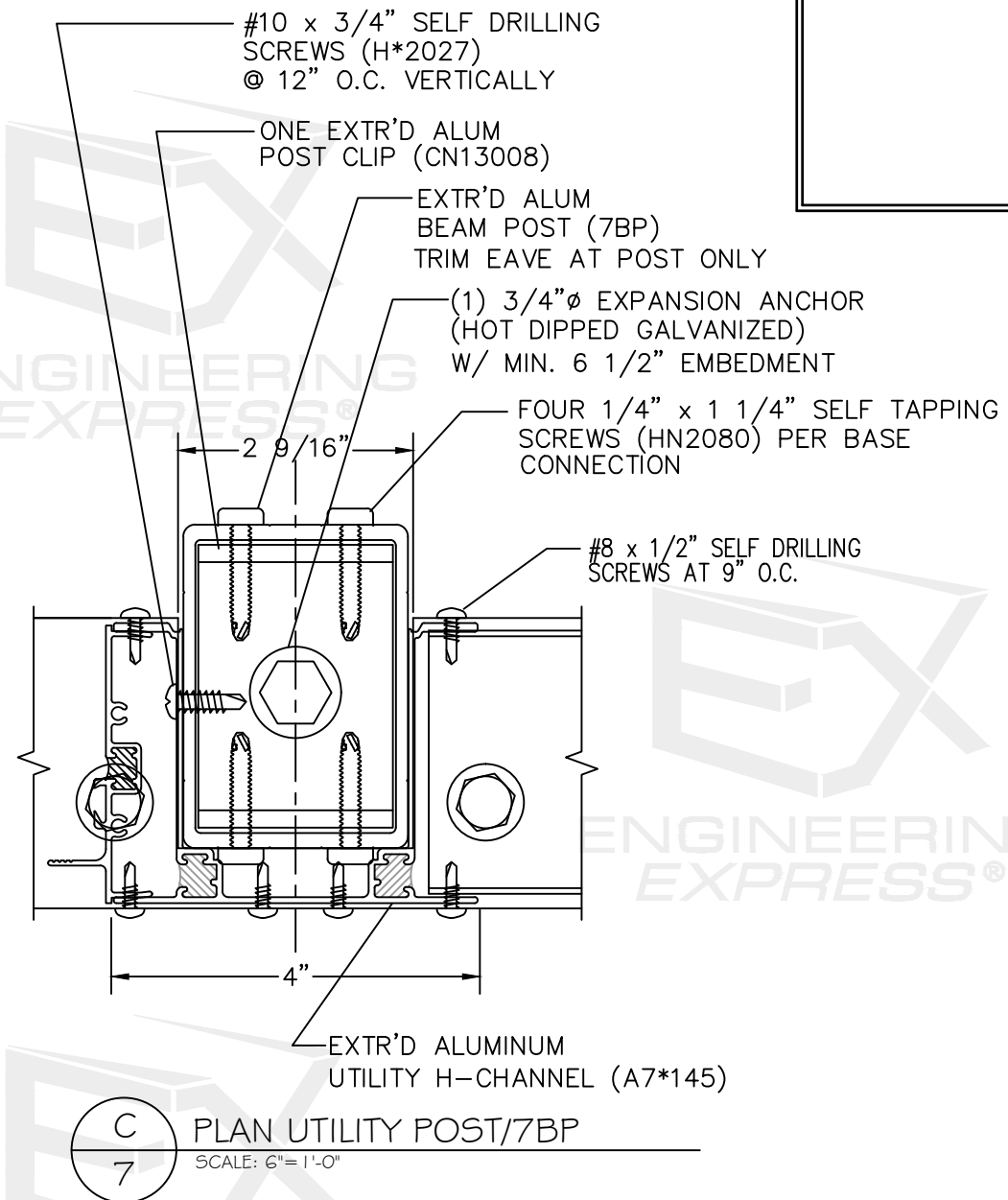
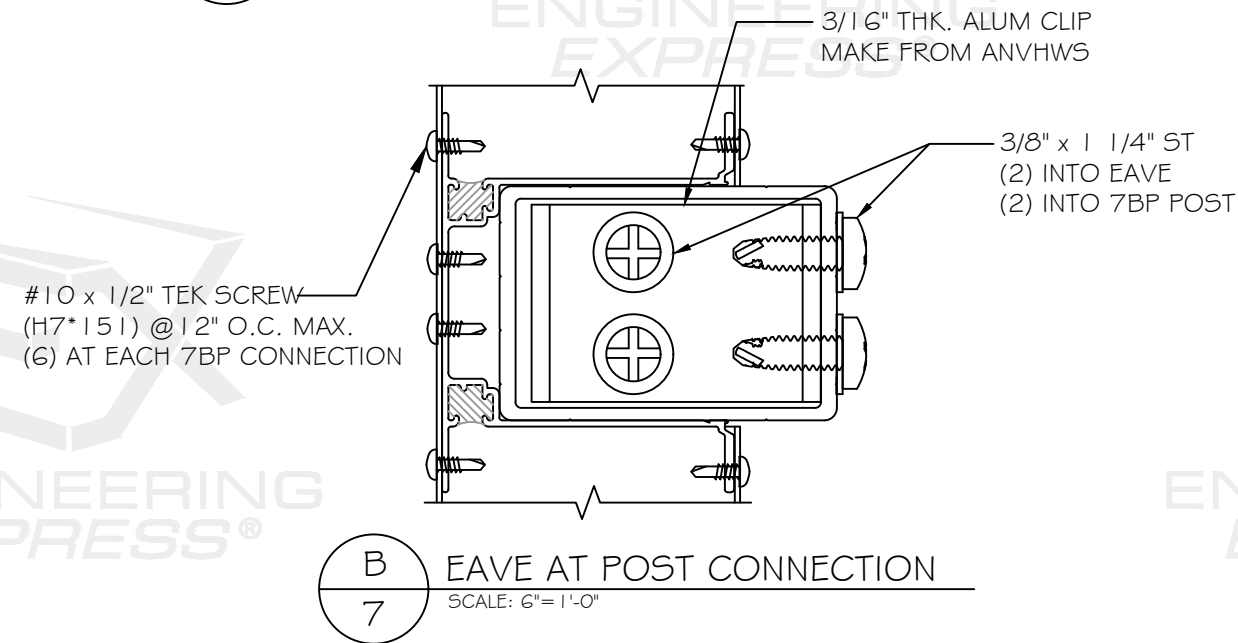
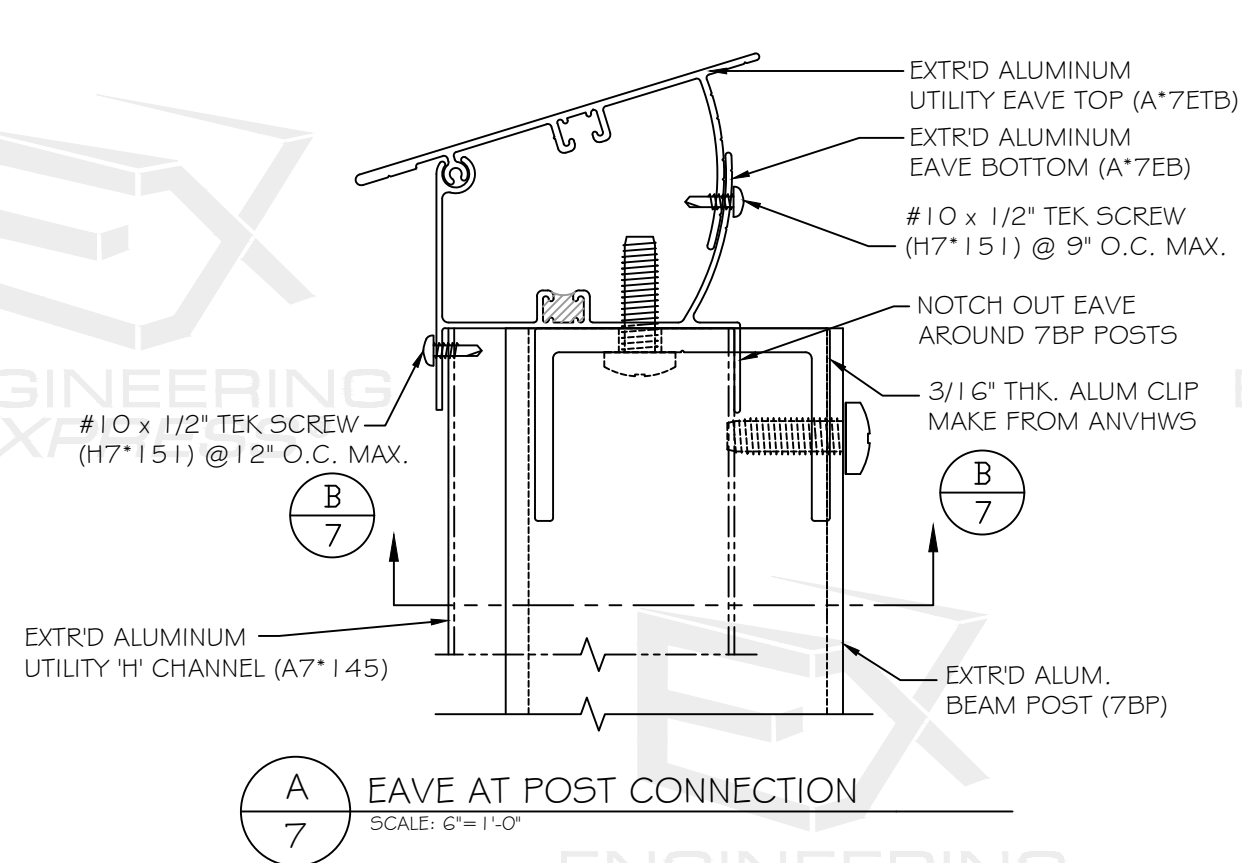
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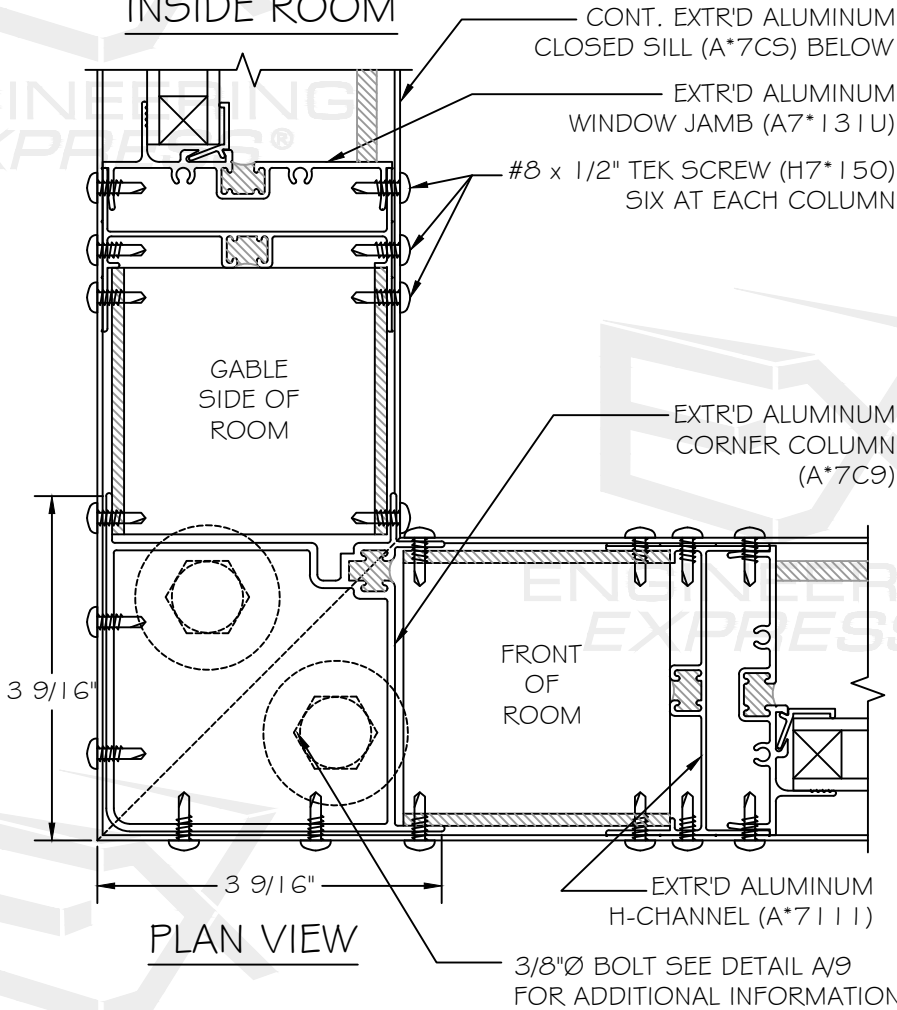
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NOTE:
CONNECTION
@ EAVE SIMILAR

INSIDE ROOM



A
8
CORNER POST CONNECTION AT SILL
NOT TO SCALE

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2 LAG BOLTS @ TOP 6" OF COLUMN SPACE @ 3" O.C. VERTICALLY & @ 30" O.C. VERTICALLY (COORDINATE WITH SCHEDULE)

NOTE:
CONNECTION
@ EAVE SIMILAR

INSIDE ROOM

OUTSIDE FACE OF EXISTING STRUCTURE (@ STRUCTURAL FRAMING)

APPLY CAULKING BETWEEN SILL & WALL

#8 x 1/2" TEK SCREW (H7*150) SIX AT EACH COLUMN

EXTR'D ALUMINUM STD. H-COLUMN (A7*111)

NOTE:
I. SEE C
8
FOR ALTERNATE DETAILS

B
8
GABLE ATTACHMENT AT HOUSEWALL w/WINDOW
NOT TO SCALE

#8 x 1/2" TEK SCREW (H7*150) SIX AT EACH COLUMN

FOR DETAILS NOT SHOWN SEE B
8

C
8
GABLE ATTACHMENT AT HOUSEWALL w/WINDOW
NOT TO SCALE

PLAN VIEW

GABLE ATTACHMENT AT HOUSEWALL w/WINDOW

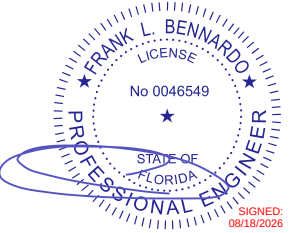
PLAN VIEW

EXTR'D ALUMINUM CLOSED SILL (A7C9) PLACED VERTICALLY AGAINST WALL (SHOWN) OR EXTENSION SILL (A7XS)

#8 x 1/2" TEK SCREW (H7*150) @ 16" O.C. EACH SIDE VERTICALLY EXCEPT @ TOP 9" PROVIDE 3 EACH SIDE (SPACE @ 3" O.C.)

EXTR'D ALUMINUM WINDOW JAMB (A7*131U)

2 7/8" THK. WALL PANEL



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FLORIDA STATEWIDE APPROVAL (FSA FL#12109.1)

REMARKS	DRWN	CHKD	DATE
2020 FBC (21-39494)	TAE	AJP	04/24/21
2023 FBC UPDATE	SQ	RS	07/12/23
2026 FBC UPDATE	MZ	MIN	08/18/26
-	-	-	-
-	-	-	-

26-100219

SCALE: NTS UNLESS NOTED

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