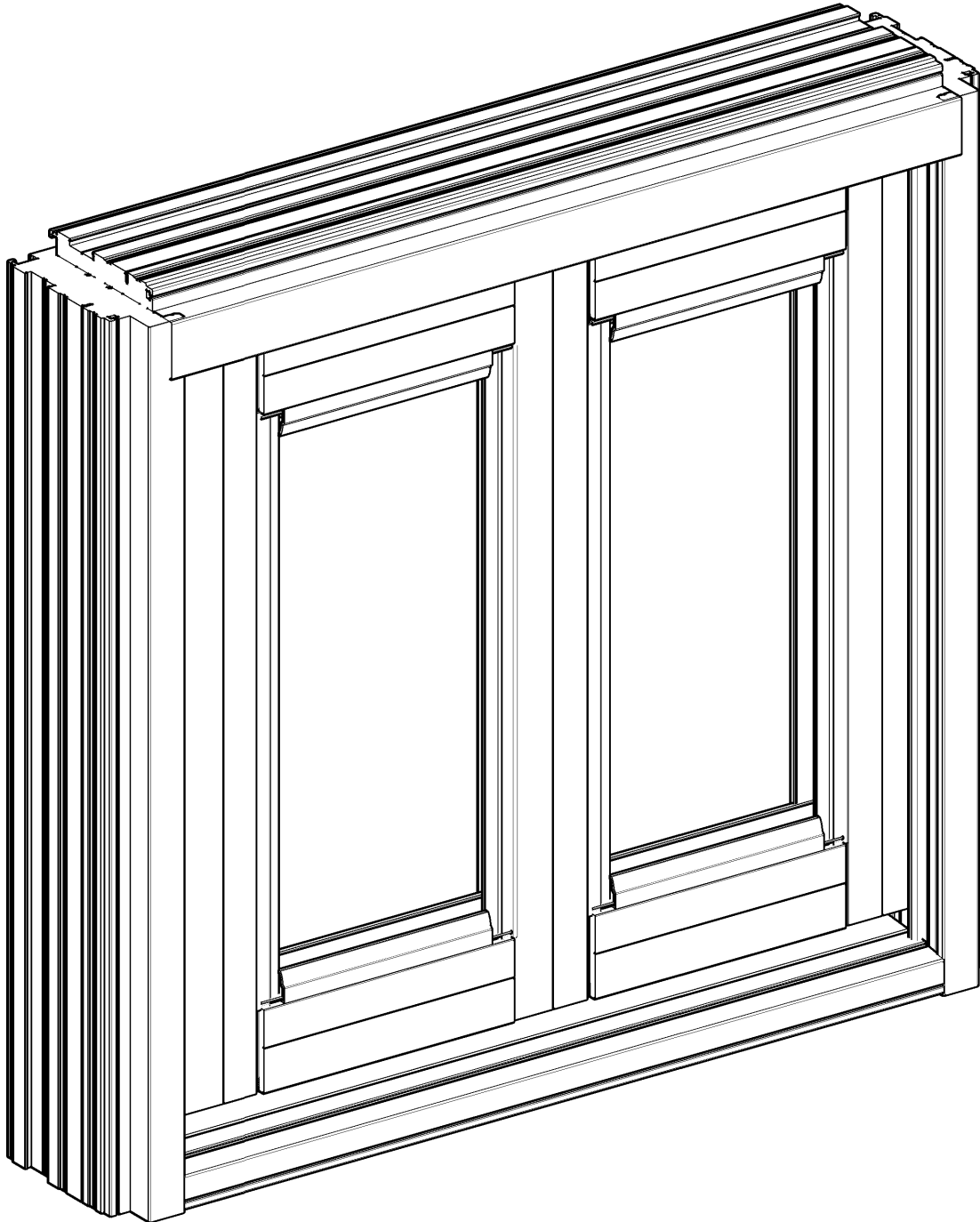


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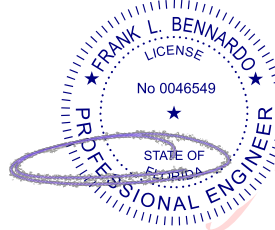
INDEX

SHEET # | DESCRIPTION

1. COVER & DESIGN CRITERIA
2. ELEVATIONS
3. GLASS TYPES
4. ANCHOR CHARTS AND FASTENER SCHEDULE
5. STANDARD FRAMING DETAILS
9. SYSTEM COMPONENTS
10. BILL OF MATERIALS

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PE# 0046549 CA# 9885



AUGUST 18, 2026

Digitally signed by
Frank Bennardo
Date: 2026.08.18
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HOLBROOK, NY 11741

PH: (631) 563-4000

SERIES 4500 OUT-SWING PVC SWING DOORS
FLORIDA BUILDING CODE NINTH EDITION (2026)
FLORIDA STATEWIDE APPROVAL (FSA FL#38465.1)

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GENERAL NOTES:

1. THE SYSTEM AND GLASS TYPES DESCRIBED HEREIN COMPLY AND HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 9TH EDITION (2026) PER
a. ASTM E 283, ASTM E 330
b. AAMA/WDMA/CSA 101/I.S.2/A440
2. FOR USE **OUTSIDE** THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
3. GLASS UNIT(S) SHALL ME THE REQUIREMENTS OF ASTM E-1300.
4. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
5. 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.WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
6. 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.
7. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS
8. 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.
9. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
10. ENGINEER SEAL AFFIXED HERETO VALIDATE 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.
11. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
12. PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
13. ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
14. SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION)
15. IF SLOPED GLAZING IS NEEDED, IT SHALL BE ALLOWED UNDER SITE SPECIFIC ENGINEERING. DESIGN MUST BE CHECKED AND APPROVED BY A PROFESSIONAL ENGINEER AND THE MANUFACTURER(S).
16. UNITS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION.

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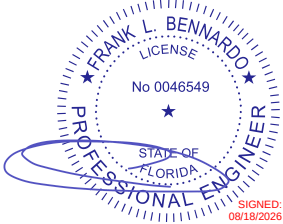
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ELEVATIONS

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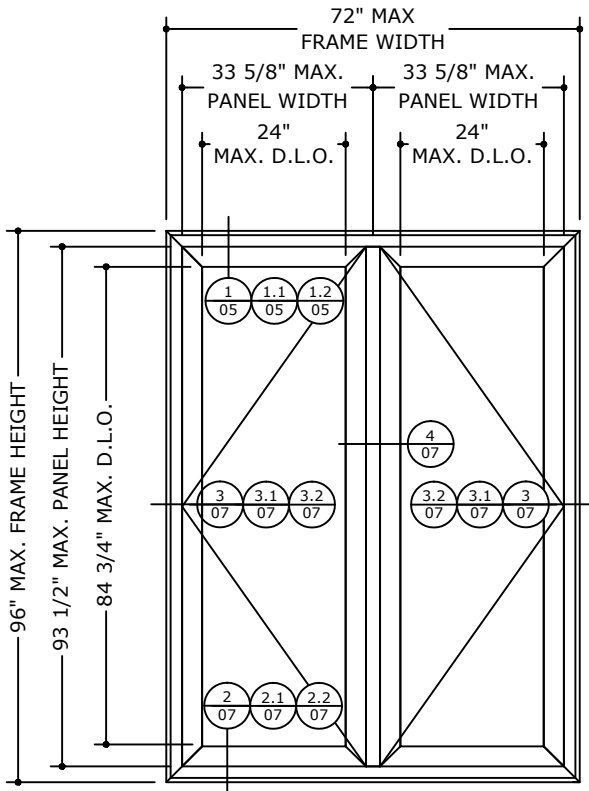
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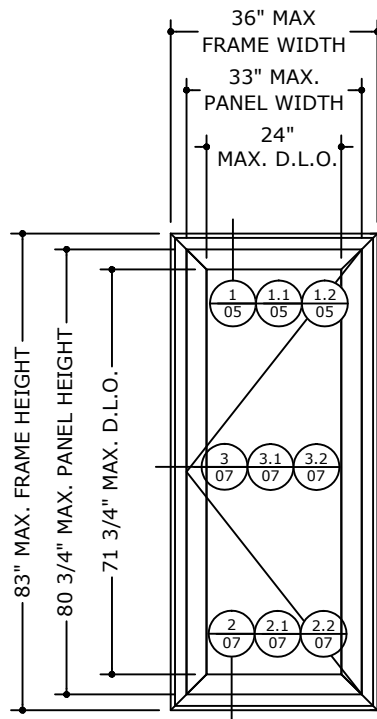
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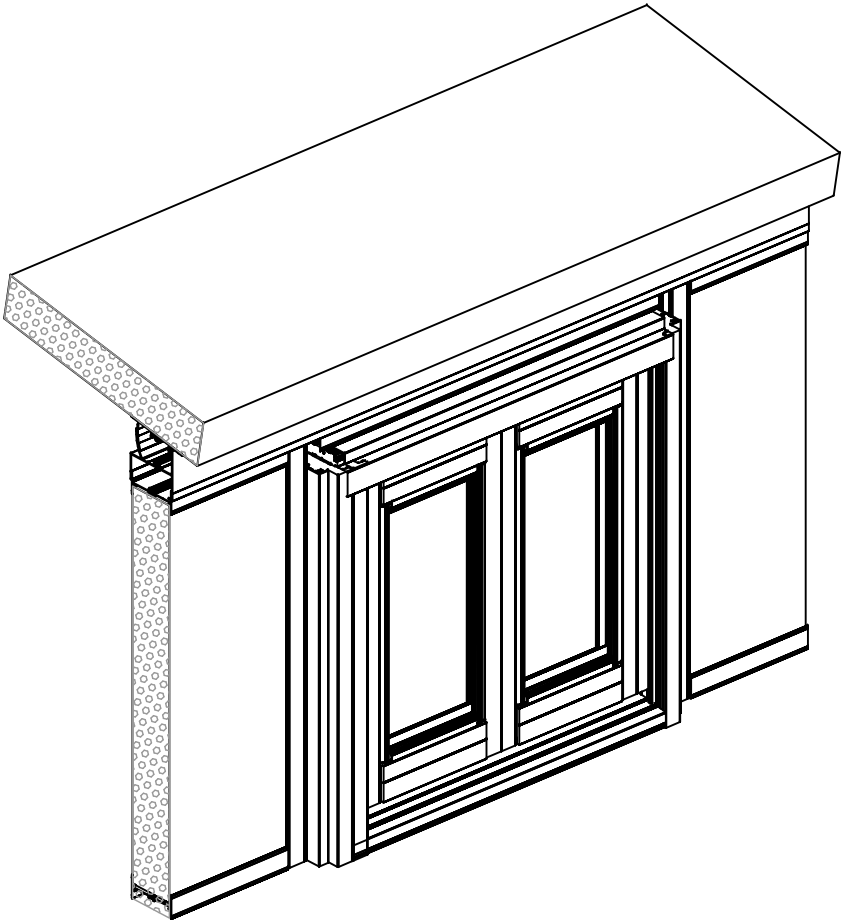
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TYPICAL PAIR (XX) DOOR ELEVATION



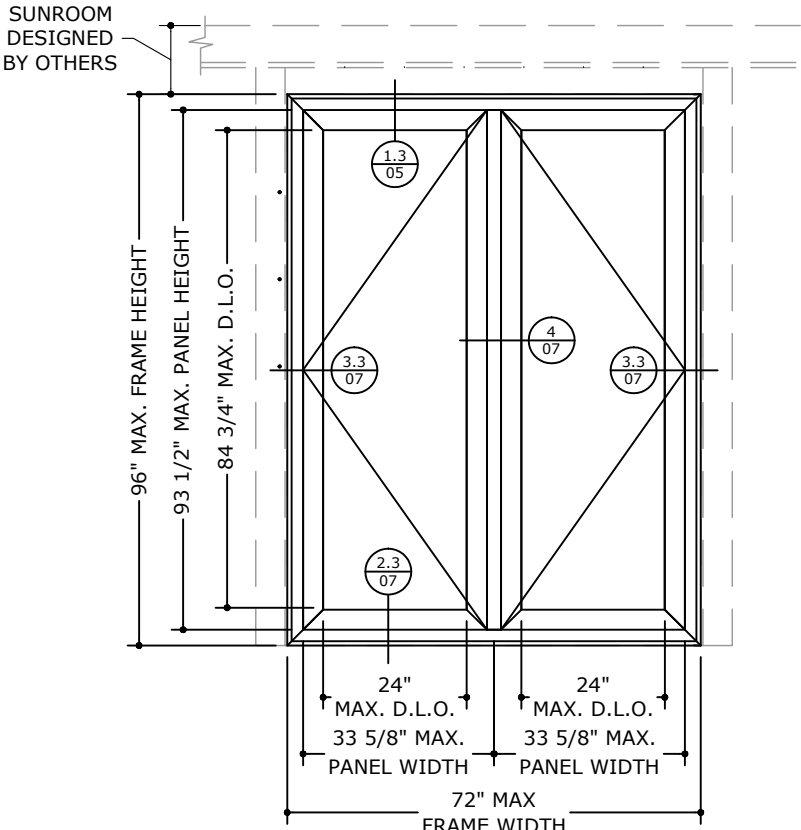
TYPICAL SINGLE (X) DOOR ELEVATION



DOOR INSIDE SUNROOM OPTION

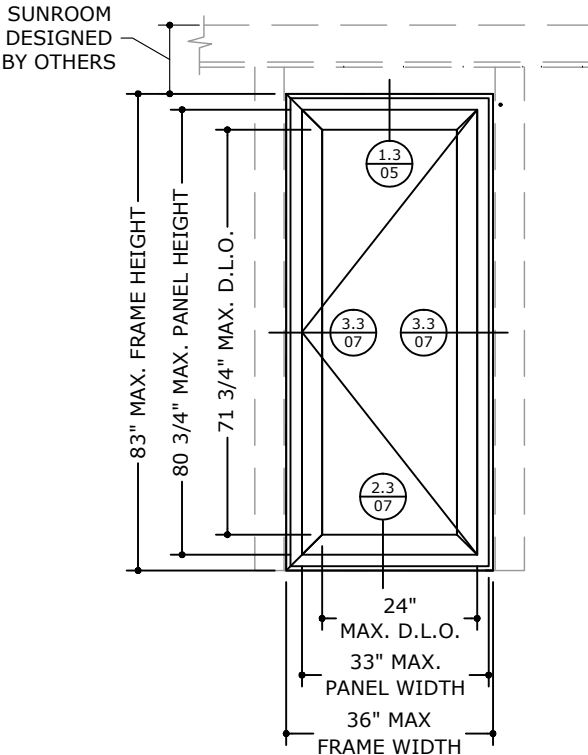
MAXIMUM PRESSURE RATING = +35/-35 PSF (ASD)

MAXIMUM PRESSURE RATING = +80/-80 PSF (ASD)



SUNROOM ELEVATION

MAXIMUM PRESSURE RATING = +35/-35 PSF (ASD)



SUNROOM ELEVATION

MAXIMUM PRESSURE RATING = +80/-80 PSF (ASD)

MAXIMUM PANEL AREA:

PAIR (XX) CONFIGURATION PANEL AREA NOT TO EXCEED 21.84 SQ. FT.
SINGLE (X) CONFIGURATION PANEL AREA NOT TO EXCEED 18.51 SQ. FT.

MAXIMUM PANEL D.L.O. AREA:

PAIR (XX) CONFIGURATION PANEL AREA NOT TO EXCEED 14.57 SQ. FT.
SINGLE (X) CONFIGURATION PANEL AREA NOT TO EXCEED 11.96 SQ. FT.

WATER INFILTRATION NOTE:

PAIR (XX) CONFIGURATION: WATER RESISTANCE PER ASTM E 547 = 5.43 P.S.F
SINGLE (X) CONFIGURATION: WATER RESISTANCE PER ASTM E 547 = 12.11 P.S.F

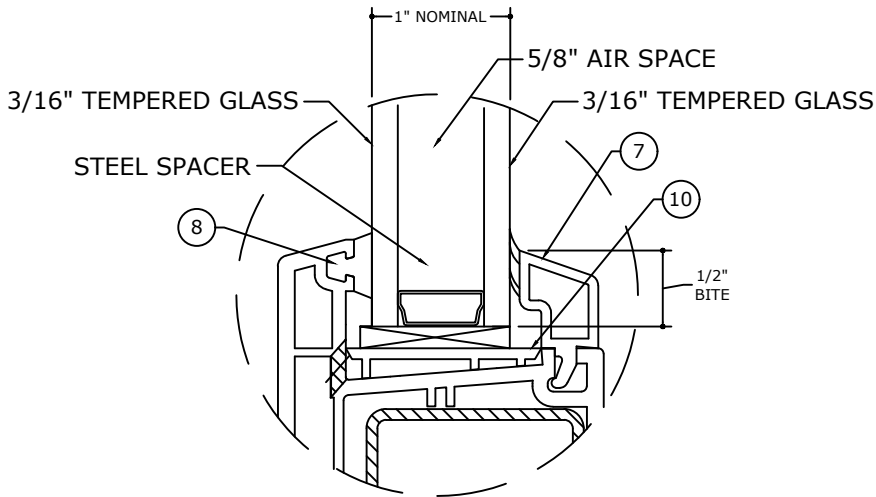
MAXIMUM ALLOWABLE DESIGN PRESSURES:

PAIR (XX) CONFIGURATION: +35.0 PSF, -35.0 PSF
SINGLE (X) CONFIGURATION: +80.0 PSF, -80.0 PSF

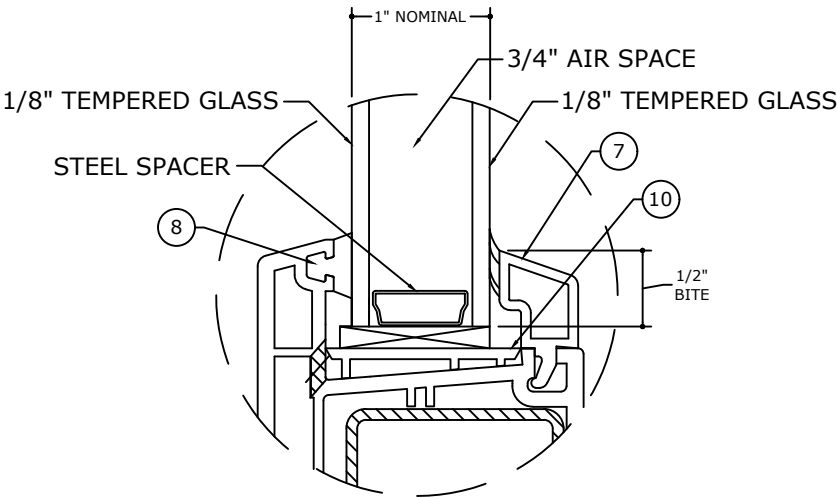
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GLASS TYPES

NOTE: GLASS SIZE = DLO + 1"



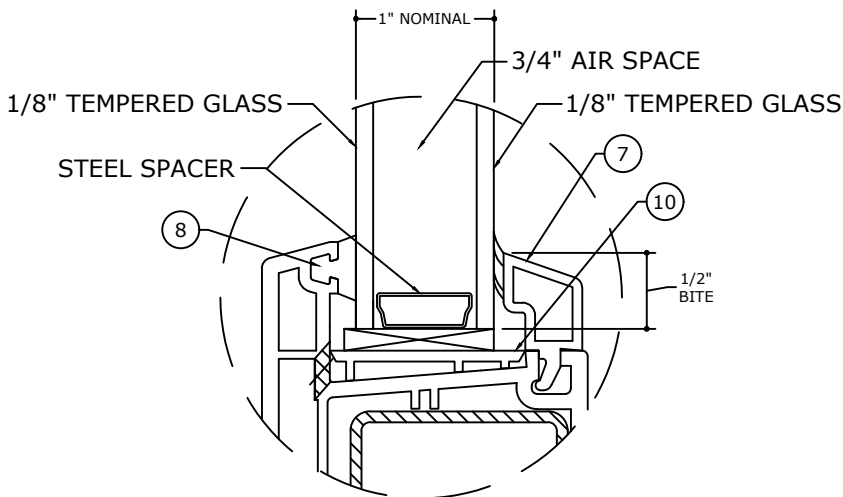
GLASS TYPE 
GLAZING DETAIL
N.T.S.



GLASS TYPE 
GLAZING DETAIL
N.T.S.

PAIR DOOR (XX) GLASS TYPES:

SINGLE DOOR (X) GLASS TYPES:

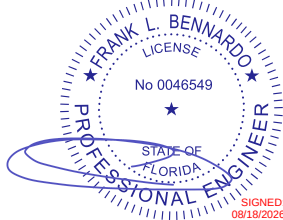


GLASS TYPE 
GLAZING DETAIL
N.T.S.

NOTE:
GLAZING TYPE COMPLIES WITH
ASTM E1300 REQUIREMENTS .

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FLORIDA BUILDING CODE NINTH EDITION (2026)
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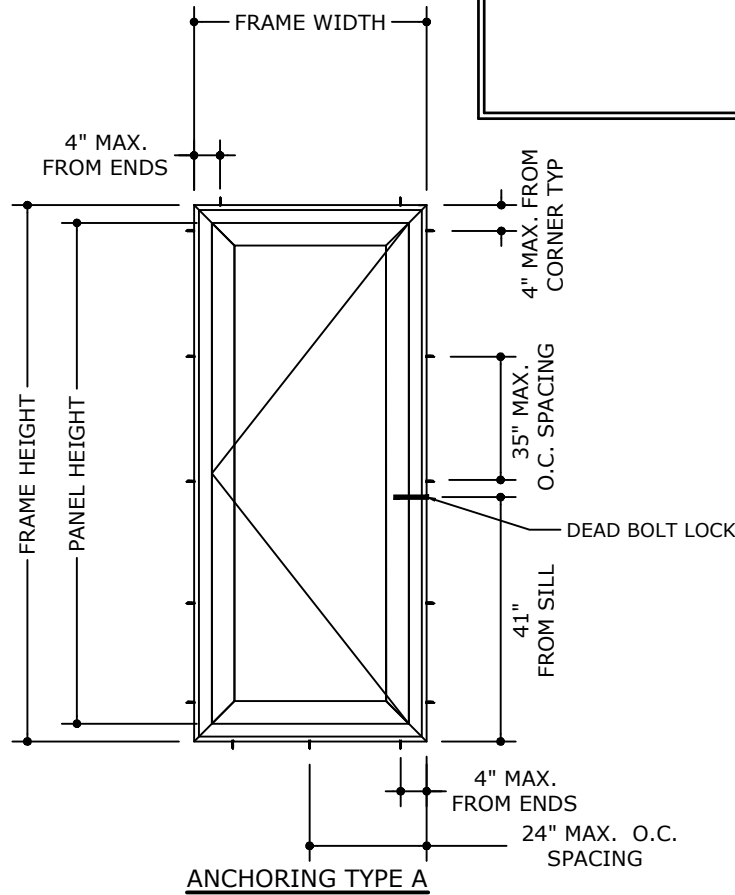
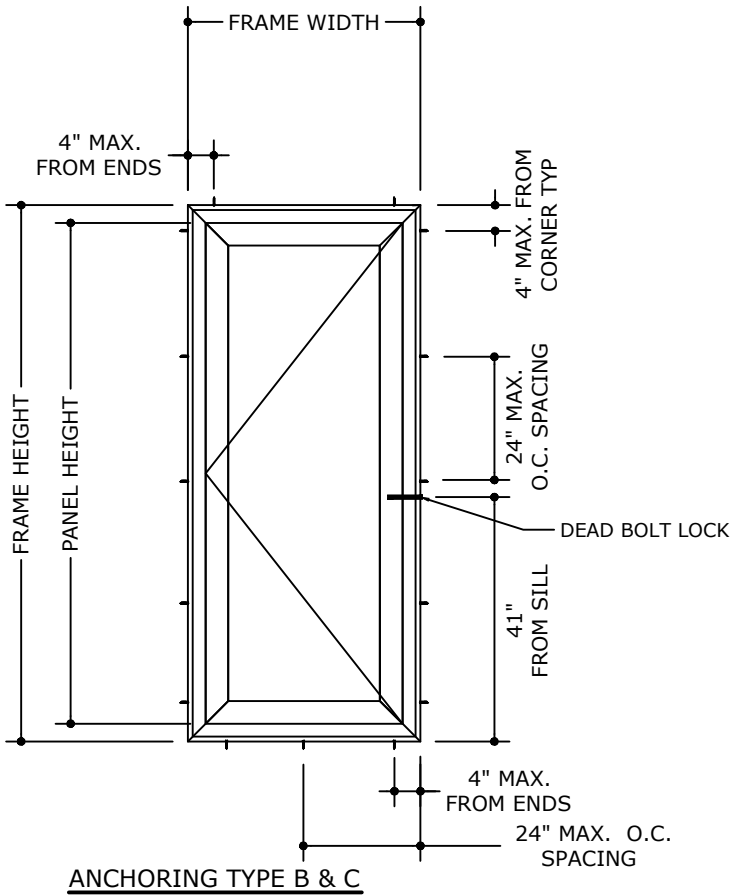
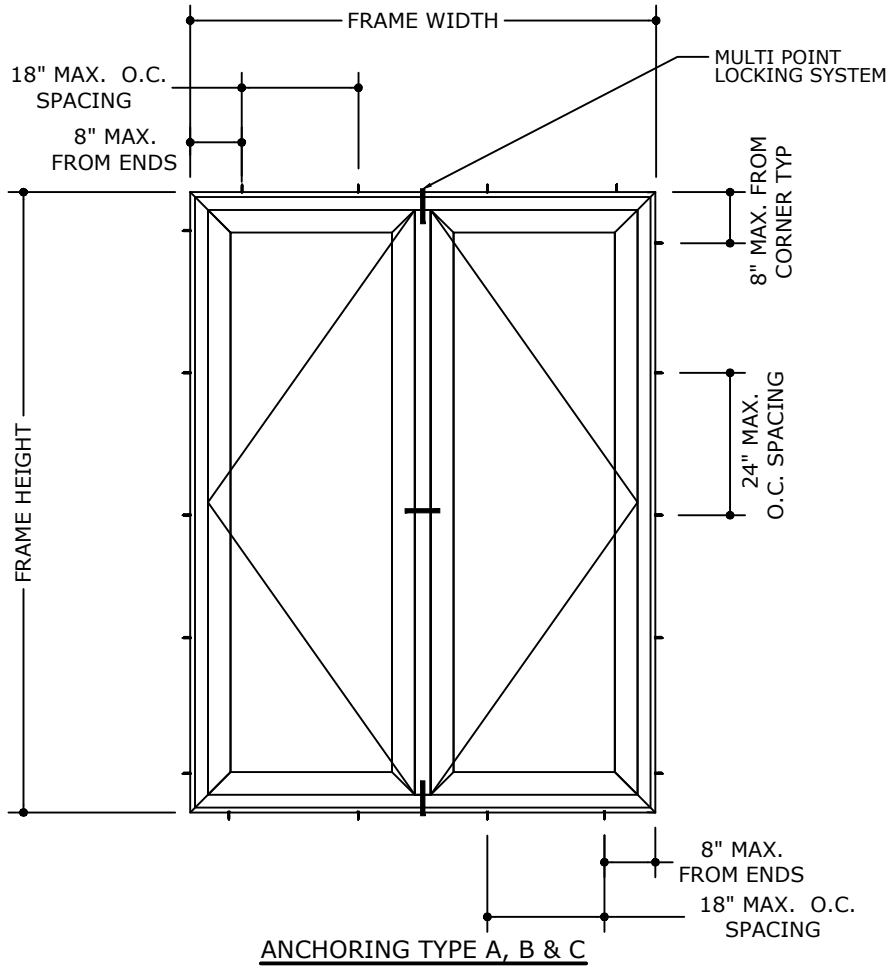
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FASTENER SCHEDULE



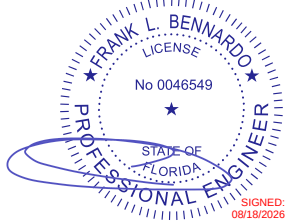
TYPICAL ANCHOR SPACING LAYOUT

TYPE 'A'	
CONCRETE / GROUT-FILLED CMU	3/16" DIA. "HWH ULTRACONS+" BY 'DEWALT' DIRECTLY INTO CONCRETE . GROUT-FILLED CMU (3000PSI /fm = 2000PSI. MIN)(Fu=164 KSI, Fy=117 KSI) 2-1/2" MIN. EDGE DISTANCE 3-3/8" MIN. EMBEDMENT
TYPE 'B'	
WOOD	#10-16 PAN-HEAD, SMS / TEK SCREWS (GRADE 5 MIN.) DIRECTLY INTO 2X WOOD BUCKS OR WOOD STRUCTURES (SPF#2 WOOD, SG=0.42 MIN., 1-1/2" MIN. THICKNESS) 2-1/4" MIN. EDGE DISTANCE 1-1/2" MIN. EMBEDMENT
TYPE 'B'	
METAL	#10-16 PAN-HEAD / HWH SMS / TEK SCREWS (GRADE 5 MIN.) DIRECTLY INTO METAL STRUCTURES ALUMINUM: 1/8" THICKNESS (6063-T5 MIN.) STEEL: 1/8" THICKNESS (Fy=36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR COATED TO PREVENT ELECTROLYSIS.) 3/4" MIN. EDGE DISTANCE 3 PITCHES PAST THREAD PLANE

NOTE: MULTIPOINT LOCKING SYSTEM FOR SINGLE (X) DOORS ALSO ALLOWED AS FOLLOWS: MULTI POINT LOCK WITH HANDLE LOCK POINTS AT 4", 26", 40", 54", & 77" FROM TOP RAIL.

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PE# 0046549 CA# 9885

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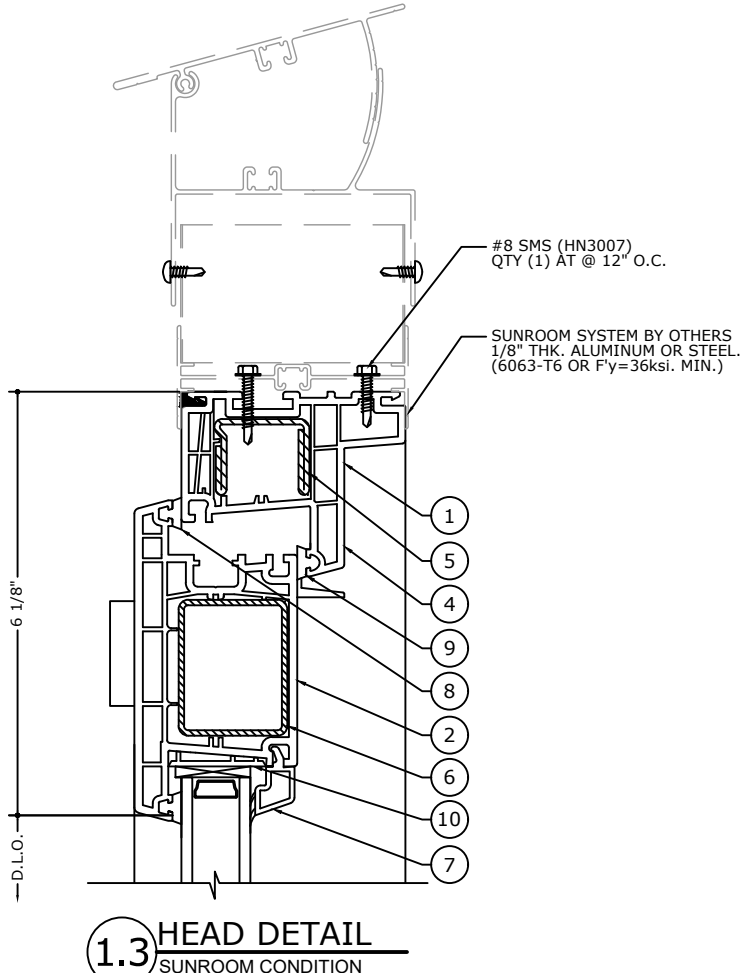
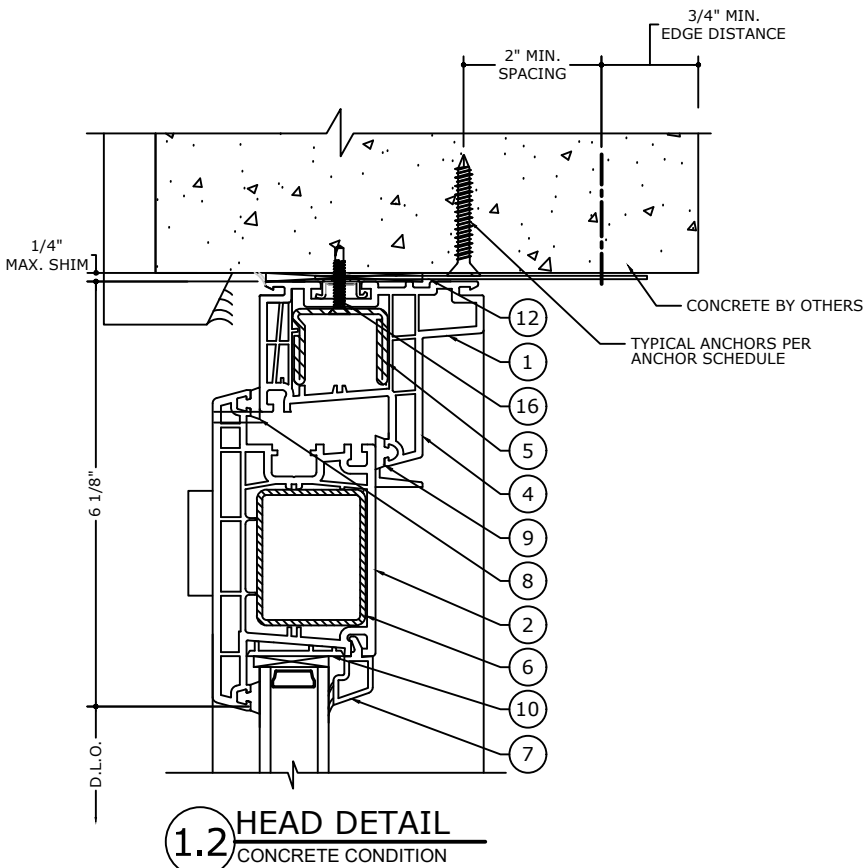
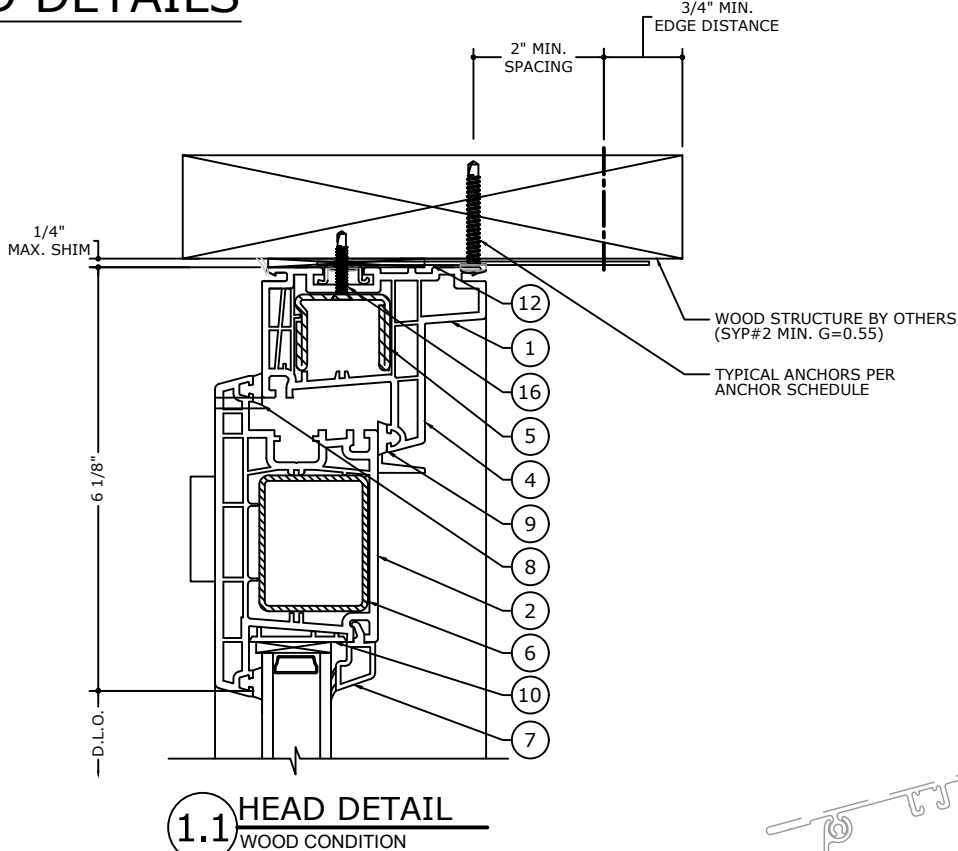
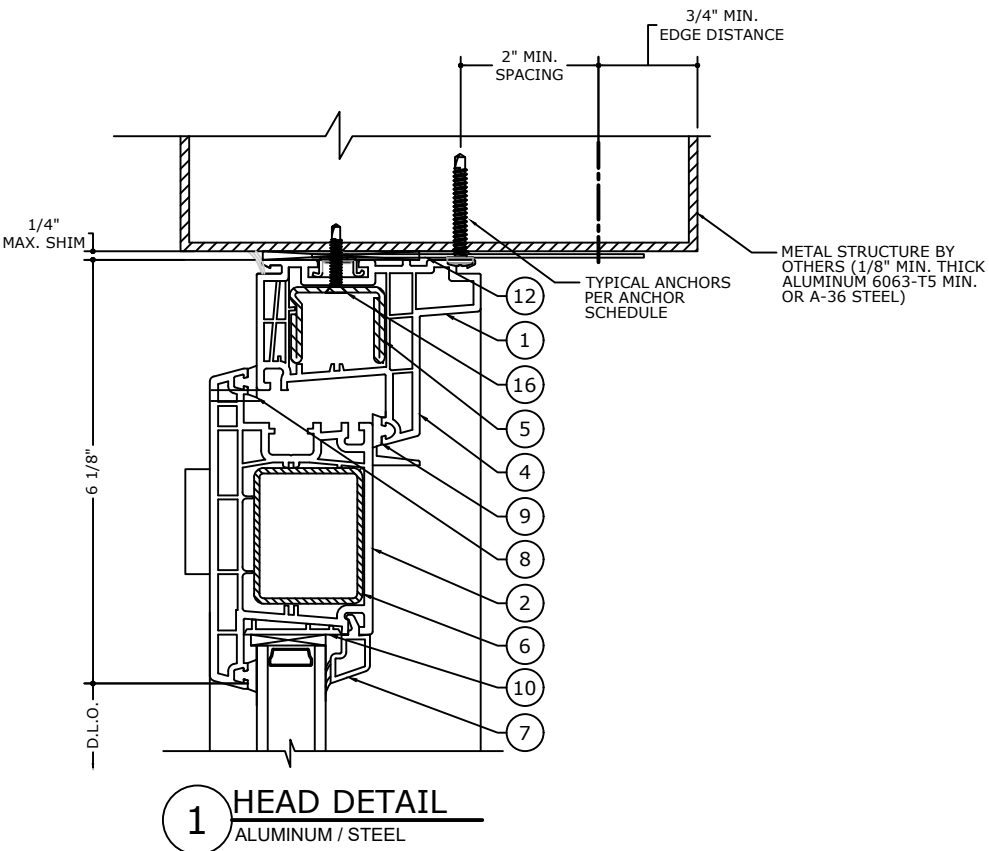
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HEAD DETAILS

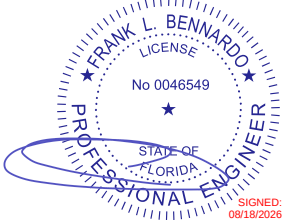


NOTE: REFER TO SYSTEM INSTALLATION MANUAL FOR FABRICATION AND ASSEMBLY INSTRUCTIONS.

NOTE: SECOND SCREW AT ANCHOR STRAP SHOWN IS REQUIRED ONLY AT PAIRED (XX) OUT SWING DOORS.

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

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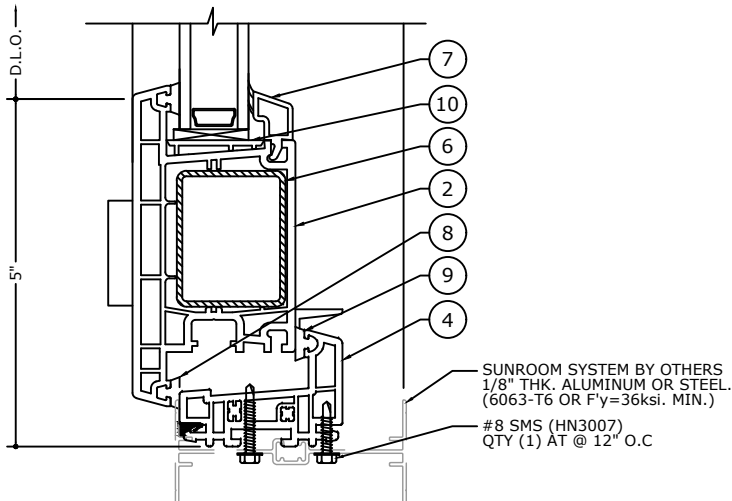
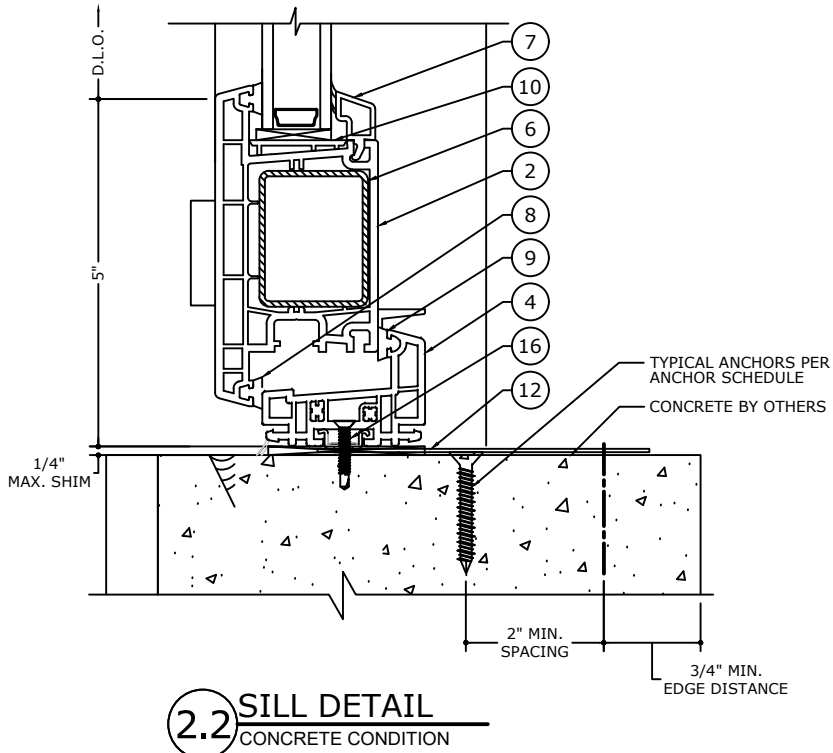
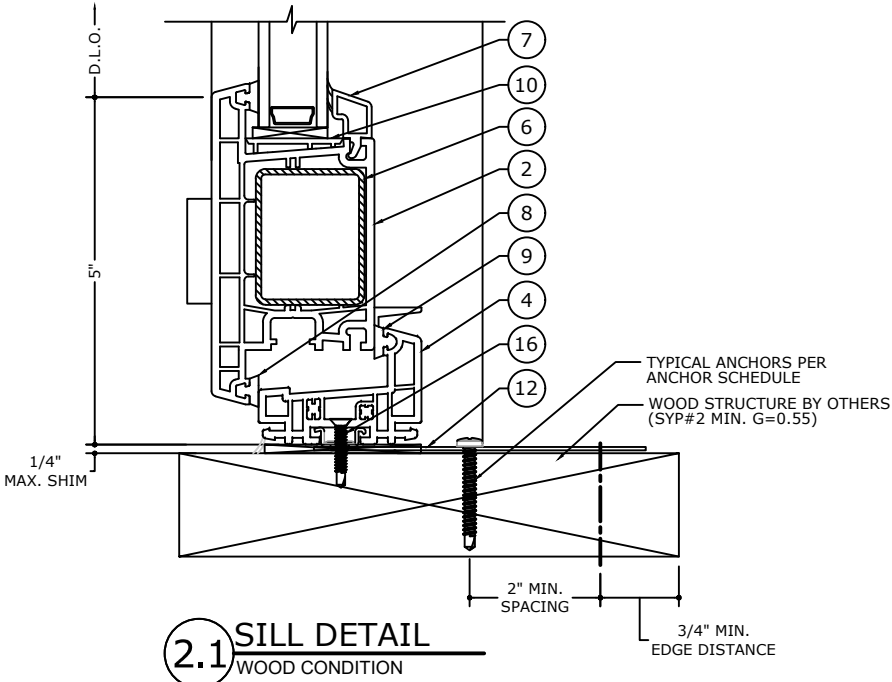
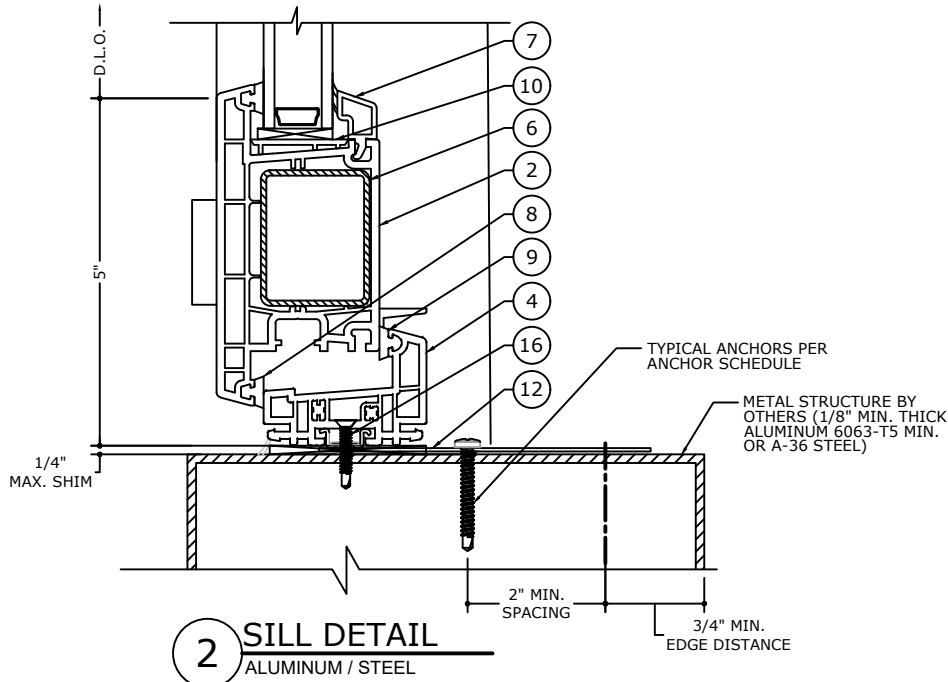
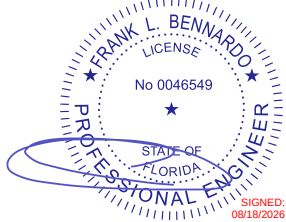
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SILL DETAILS

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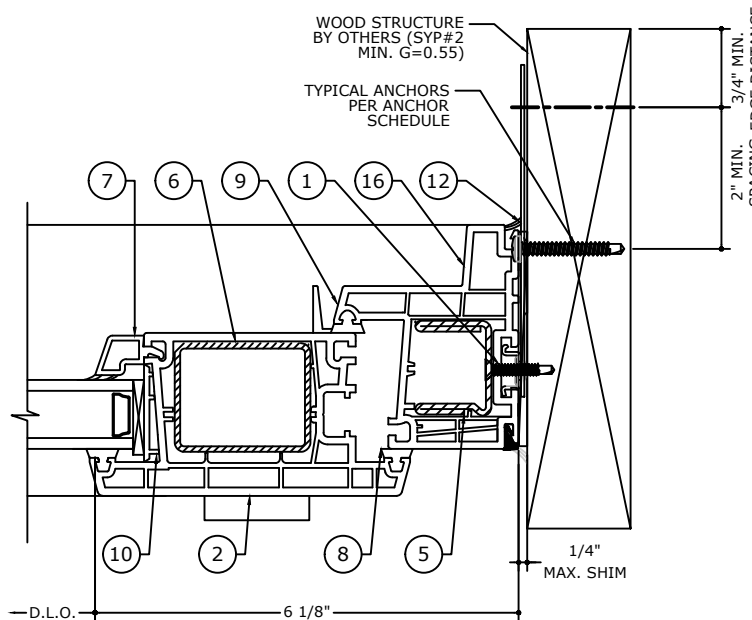
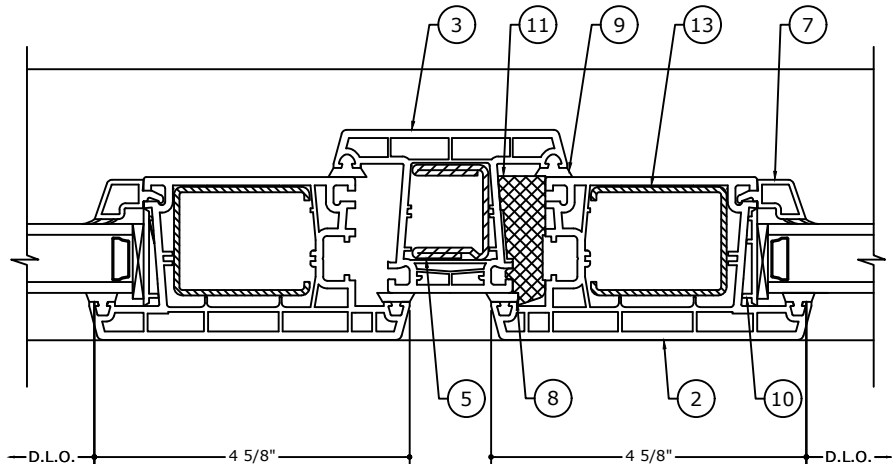
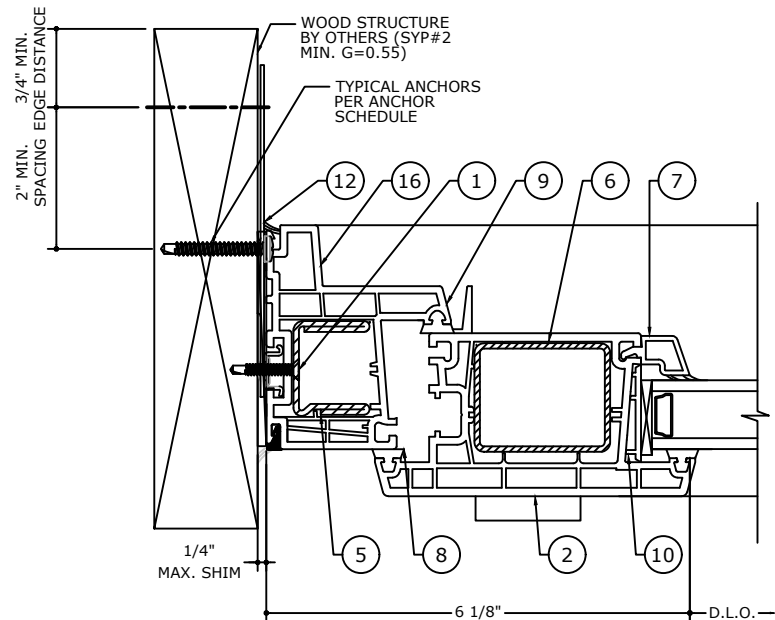
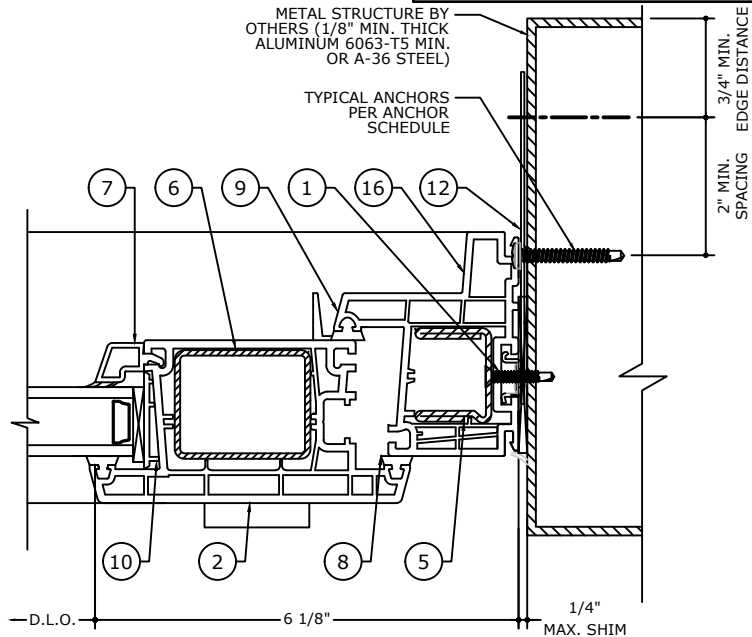
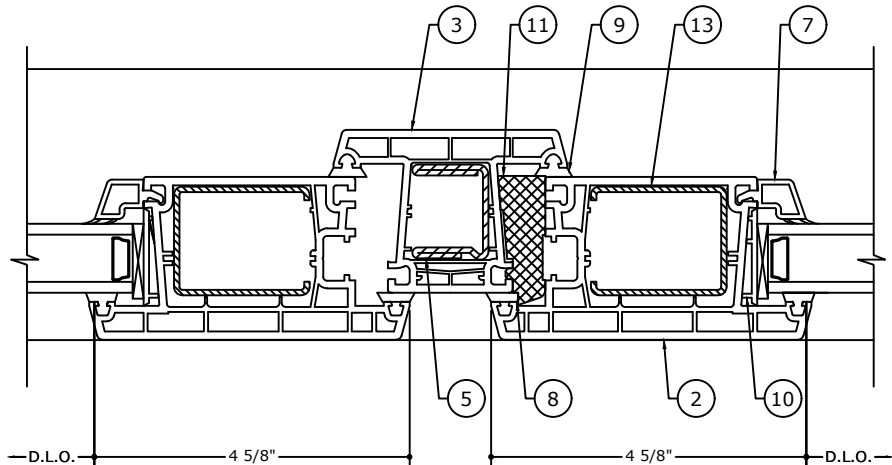
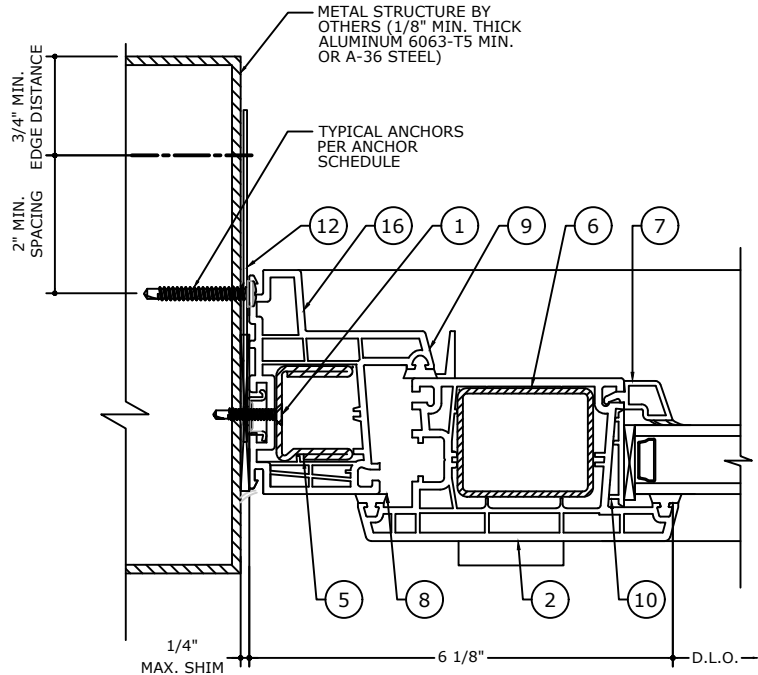
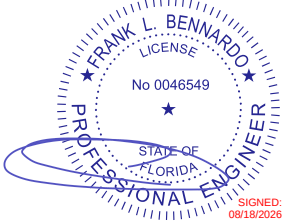
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JAMB & MEETING STILE DETAILS

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

AUGUST 18, 2026



3 JAMB & MEETING STILE DETAILS
ALUMINUM /STEEL

3.1 JAMB & MEETING STILE DETAILS
WOOD CONDITION

NOTE: REFER TO SYSTEM INSTALLATION
MANUAL FOR FABRICATION AND
ASSEMBLY INSTRUCTIONS.

NOTE: SECOND SCREW AT ANCHOR STRAP
SHOWN IS REQUIRED ONLY AT PAIRED (XX)
OUT SWING DOORS.

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FOUR SEASONS SOLAR PRODUCTS, LLC.

5005 VETERANS MEMORIAL HIGHWAY

HOLBROOK, NY 11741

PH: (631) 563-4000

SERIES 4500 OUT-SWING PVC SWING DOORS

FLORIDA BUILDING CODE NINTH EDITION (2026)

FLORIDA STATEWIDE APPROVAL (FSA FL#38465.1)

REMARKS	DRWN	CHKD	DATE
FBC 2020 (21-39083b)	TAE	AJP	04/24/21
FBC 2023 UPDATE	SQ	RS	07/13/23
FBC 2026 UPDATE	MZ	MN	08/18/26

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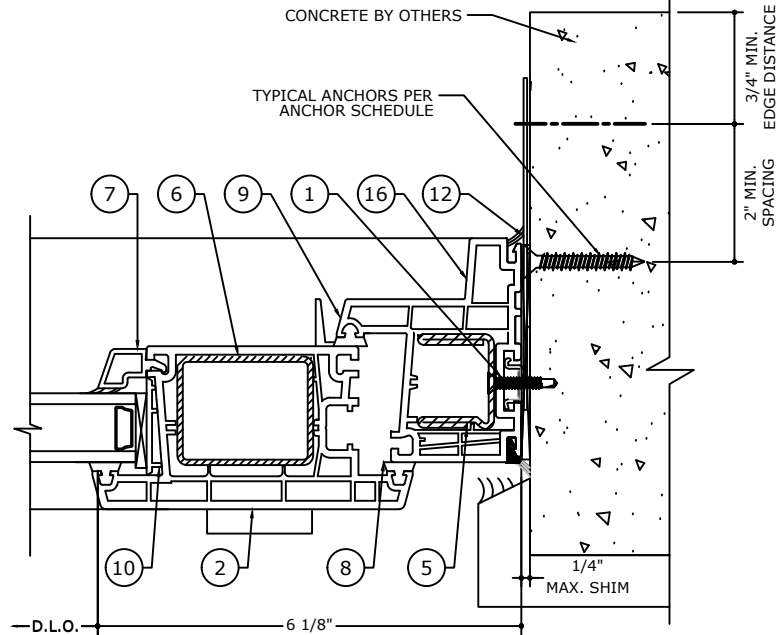
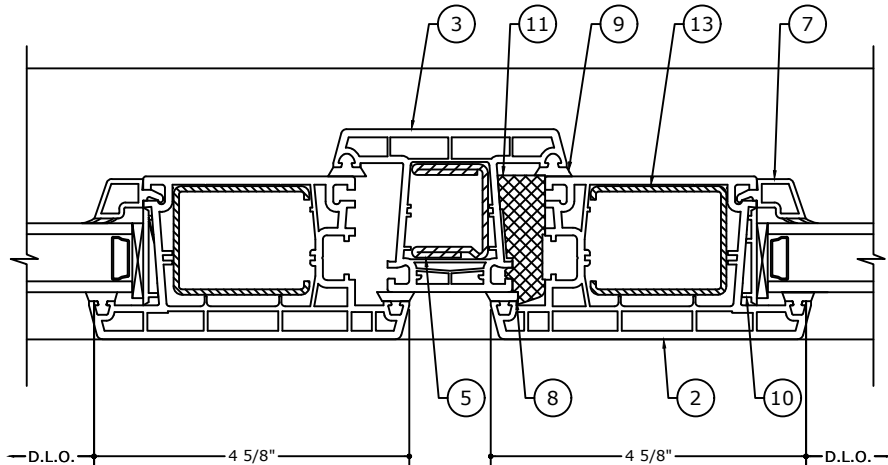
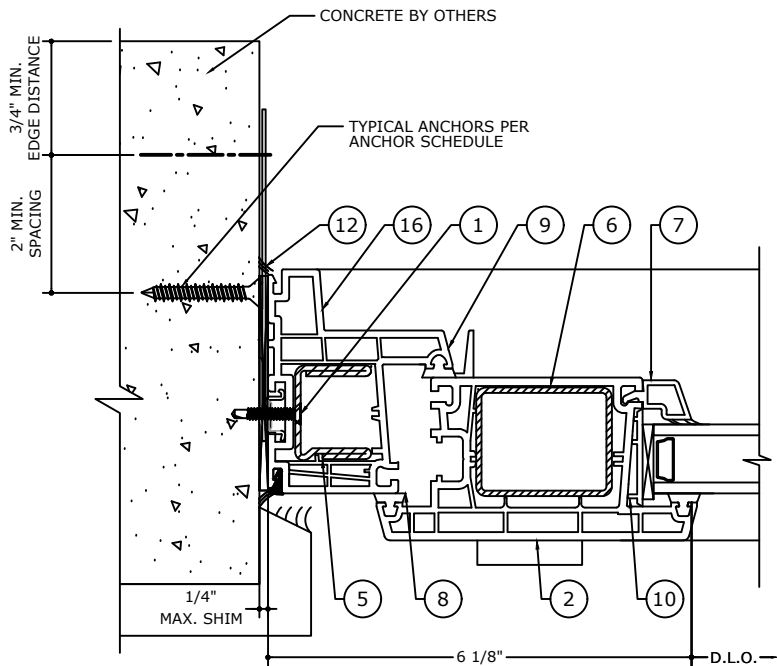
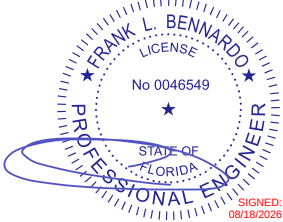
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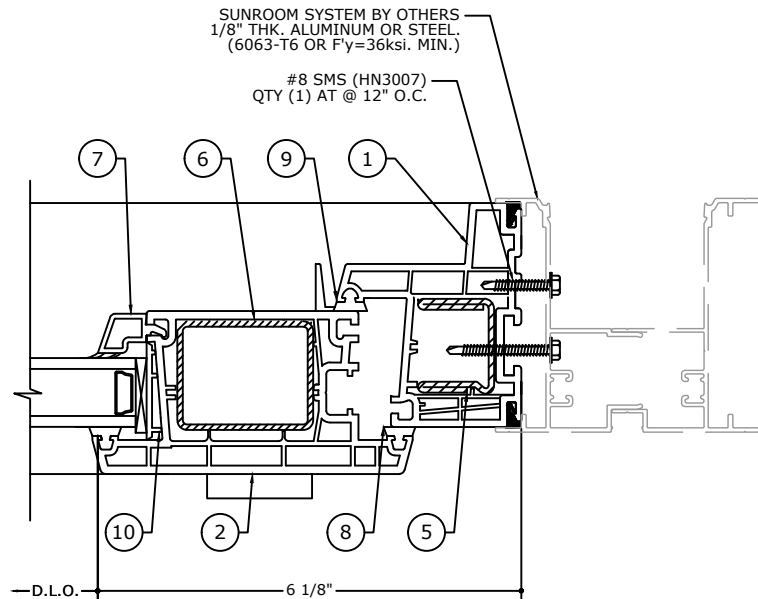
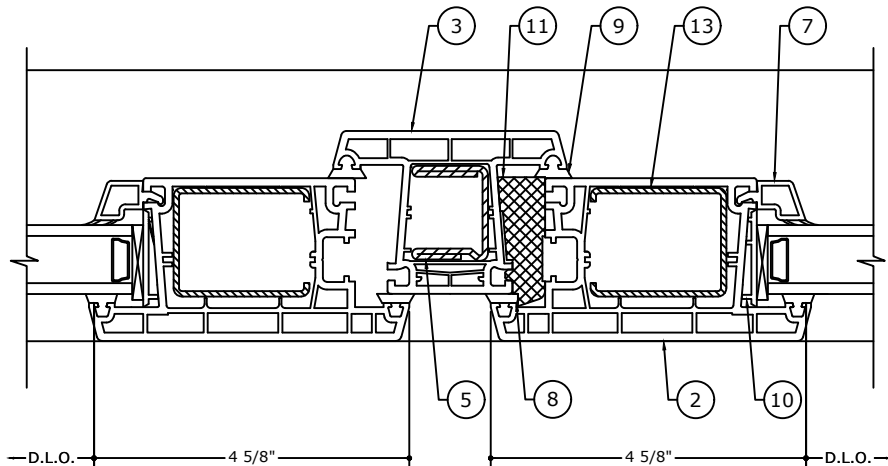
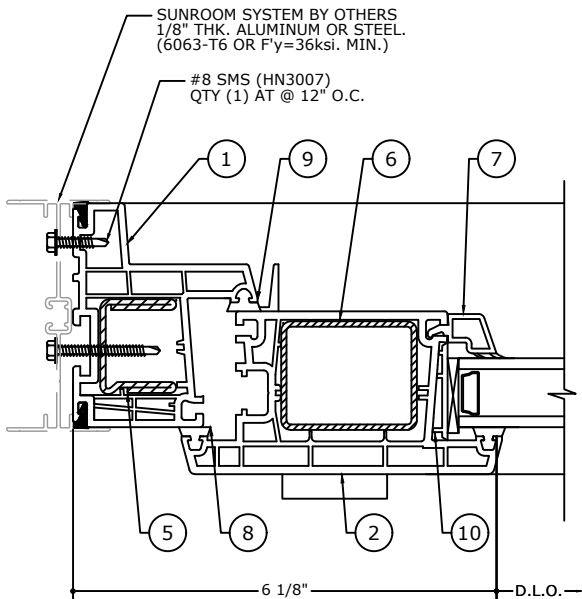
JAMB & MEETING STILE DETAILS

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

AUGUST 18, 2026



3.2 JAMB & MEETING STILE DETAILS CONCRETE CONDITION



3.3 JAMB & MEETING STILE DETAILS SUNROOM CONDITION

NOTE: REFER TO SYSTEM INSTALLATION
MANUAL FOR FABRICATION AND
ASSEMBLY INSTRUCTIONS.

NOTE: SECOND SCREW AT ANCHOR STRAP
SHOWN IS REQUIRED ONLY AT PAIRED (XX)
OUT SWING DOORS.

FL 38465.1

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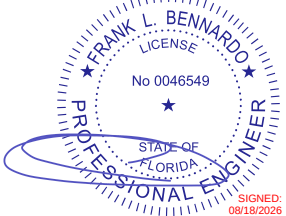
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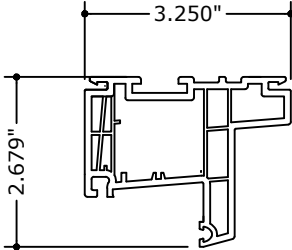
SYSTEM COMPONENTS

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

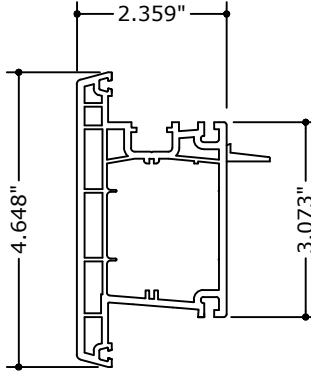
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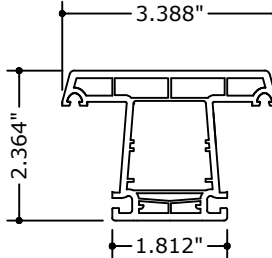
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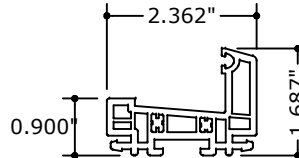
1 FIXED FRAME
601205



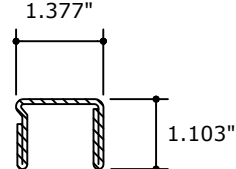
② DOOR T-SASH
541150



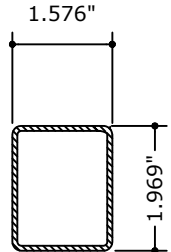
③ T-MULLION
554091



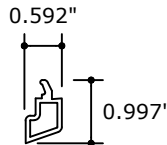
4 VINYL SILL
601235



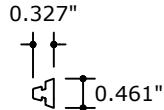
5 REINFORCEMENT
244536



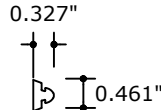
6 REINFORCEMENT
251886



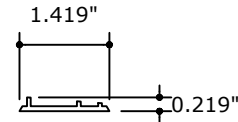
7 GLAZING STOP
560600



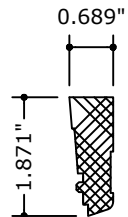
8 GLAZING SPLINE
864992



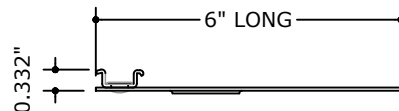
9 SEALING SPLINE
864952



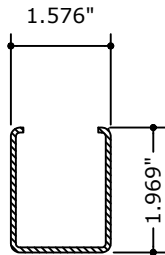
SHIM SUPPORT
351164



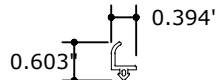
11 DISTANCE PIECE
241043



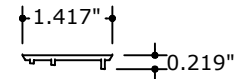
12 ANCHOR CLIP (22 Ga. STEEL)
255485



13 REINFORCEMENT
268742



14 ASTRAGEL SEAL
864940



15 GLAZING SHIM
541220

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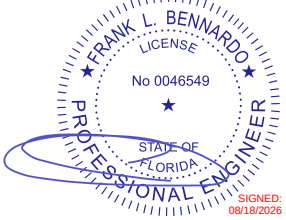
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BILL OF MATERIALS

ITEM NO.	DESCRIPTION	PART NO.	MATERIAL	MANUFACTURER
1	FIXED - FRAME	601205	VINYL	-
2	DOOR T-SASH	541150	VINYL	-
3	T-MULLION	554091	VINYL	-
4	VINYL SILL	601235	VINYL	-
5	REINFORCEMENT - FRAME & T-MULLION	244536	STEEL	-
6	REINFORCEMENT - DOOR T-SASH	251886	STEEL	-
7	GLAZING STOP	560600	VINYL	-
8	GLAZING SPLINE	864992	.	-
9	SEALING SPLINE	864952	.	-
10	SHIM SUPPORT	351164	.	-
11	DISTANCE PIECE	241043	.	-
12	ANCHOR CLIP	255485	.	-
13	REINFORCEMENT - DOOR T-SASH HANDLE	268742	STEEL	-
14	ASTRAGEL SEAL	864940	.	-
15	GLAZING SHIM	541220	.	-
16	#8x1" FH SMS (GRADE 5) - 1 PER CLIP	-	.	-
17	LOCKING HARDWARE (SINGLE DOOR) - MULTI-POINT LOCK WITH HANDLE			
18	LOCKING HARDWARE (PAIR OF DOORS) - MULTI-POINT LOCK WITH DEADBOLT			

FRANK BENNARDO, PE
PE# 0046549 CA# 9885

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