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INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN FOR NAIL FIN INSTALLATION. TWO (2) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN FOR STRAP INSTALLATION.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
5. **FIN INSTALLATION:** FOR INSTALLATION INTO WOOD FRAMING USE #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/8" IS ACHIEVED.
6. **STRAP INSTALLATION:** FOR INSTALLATION INTO WOOD FRAMING USE TWO (2) #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/4" AND A MINIMUM SPACING OF 1" BETWEEN ANCHORS IS ACHIEVED.
7. **THROUGH FRAME INSTALLATION:** FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/4" IS ACHIEVED.
8. **FIN INSTALLATION:** FOR INSTALLATION INTO METAL STUD USE #8 GRADE 5 SELF-DRILLING OR SELF-TAPPING PH OR HWH SCREWS, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/8" IS ACHIEVED.
9. **STRAP INSTALLATION:** FOR INSTALLATION INTO METAL STUD USE TWO (2) #8 GRADE 5 SELF-DRILLING OR SELF-TAPPING PH OR HWH SCREWS, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/4" AND A MINIMUM SPACING OF 1" BETWEEN ANCHORS IS ACHIEVED.
10. **THROUGH FRAME INSTALLATION:** FOR INSTALLATION INTO METAL STUD USE #10 GRADE 5 SELF-DRILLING OR SELF-TAPPING PH OR HWH SCREWS, OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL WALL. ANCHORS SHALL BE PLACED SUCH THAT A MINIMUM EDGE DISTANCE OF 3/4" IS ACHIEVED.
11. **THROUGH FRAME INSTALLATION:** FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
12. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
13. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING:

FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).

CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).
14. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.

SIERRA PACIFIC WINDOWS

FEELSAFE H3 2.0 FIXED CASEMENT WINDOWS

(WZ3)(IMPACT)

15. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

C. GROUT-FILLED CMU-UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 200 PSI AND GROUT CONFORMS TO ASTM C-476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D. HOLLOW BLOCK CMU-UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH 2000 PSI.

E. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 35.9 MIL (0.0478" or 18 GAUGE).

F. ALUMINUM - MINIMUM ALLOY 6063-T5. MINIMUM WALL THICKNESS OF 1/8".

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

AAMA/WDMA/CSA 101/I.S.2/A440-17

ASTM E1886- 19

ASTM E1996- 20
2. IMPORTANT: H3 PRODUCT IS MANUFACTURED WITH A FULLY WELDED VINYL MAIN FRAME AND INTEGRAL NAIL FIN FOR AIR-TIGHT AND WATER-TIGHT INSTALLATION. THE INTEGRAL NAIL FIN DEFINES THE WATER PLANE OF THE PRODUCT. PROPER INTEGRATION OF THE BUILDING'S WEATHER BARRIER SYSTEM MUST BE MADE FROM THIS LOCATION TO THE INTERIOR OF THE OPENING.

PERIMETER SEALING OF THE EXTERIOR BUILDING FAÇADE MUST INCLUDE A DISCONTINUOUS BEAD OF SEALANT AT THE SILL FOR PROPER WATER MANAGEMENT.

WHEN INSTALLING IN ANY RECESSED OR STUCCO APPLICATION A WATER MANAGEMENT SYSTEM TO THE EXTERIOR MUST BE INCORPORATED.

PRODUCT INSTALLED WITHOUT NAIL FIN WILL REQUIRE THE USE OF A FLEXIBLE SILL PAN.

CONSULT WITH A WATER MANAGEMENT SPECIALIST WHEN INSTALLING IN ANY OF THESE OR SIMILAR APPLICATIONS.

3. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING, AND METAL FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.

4. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.

5. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS.

6. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN WIND ZONE 3 OR LESS.

7. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN WIND ZONE 4.

8. WINDOW FRAME MATERIAL: VINYL, WOOD, AND 6063-T5.

9. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 9 FOR GLAZING DETAILS.
- | TABLE OF CONTENTS | |
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- | DESIGN PRESSURE TABLE | | | | | |
|-----------------------|------------------|---------|-----------------|-------------------------------------|--------------------------------------|
| PRODUCT | MAX OVERALL SIZE | | DESIGN PRESSURE | INSTALLATION METHOD | MISSILE IMPACT RATING |
| | WIDTH | HEIGHT | | | |
| PW-PW-PW | 119.50" | 71.50" | +50/-60 PSF | NAIL FIN AND STRAP OR THROUGH FRAME | LARGE AND SMALL MISSILE IMPACT RATED |
| PW-PW-PW W/ TRANSOMS | 119.50" | 99.25" | | | |
| PW | 94.509" | 43.875" | | | |
| PW | 57.50" | 71.50" | | | |
| PW-PW-PW | 119.50" | 27.50" | +50/-50 PSF | | |
| PW | 72.00" | 72.00" | | | |
- *SEE SHEETS 10-11 FOR QUALIFIED ALTERNATE SIZES
- 

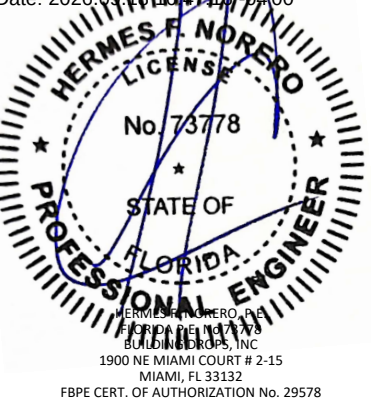
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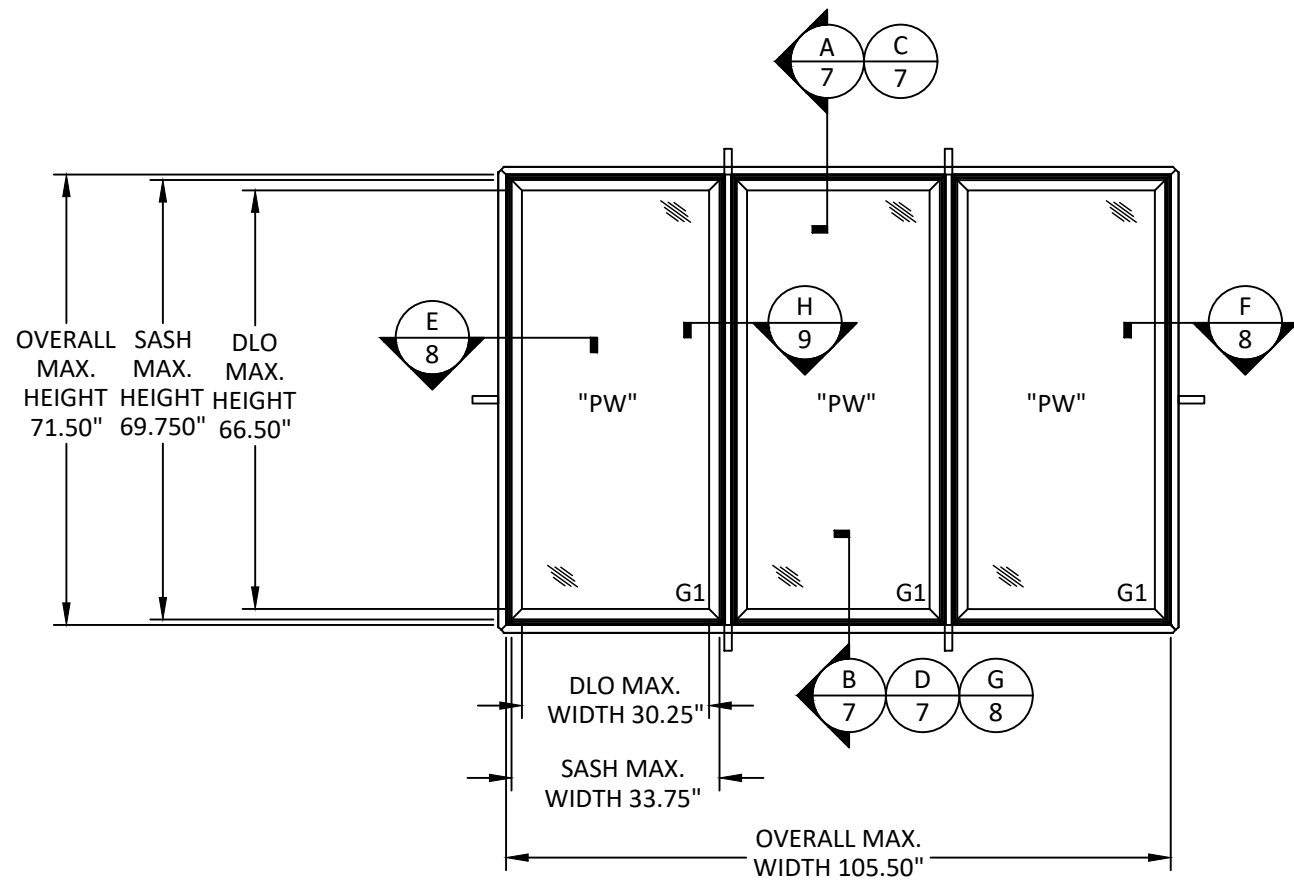
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INSTALLATION & GENERAL NOTES

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BUILDING DROPS, INC.
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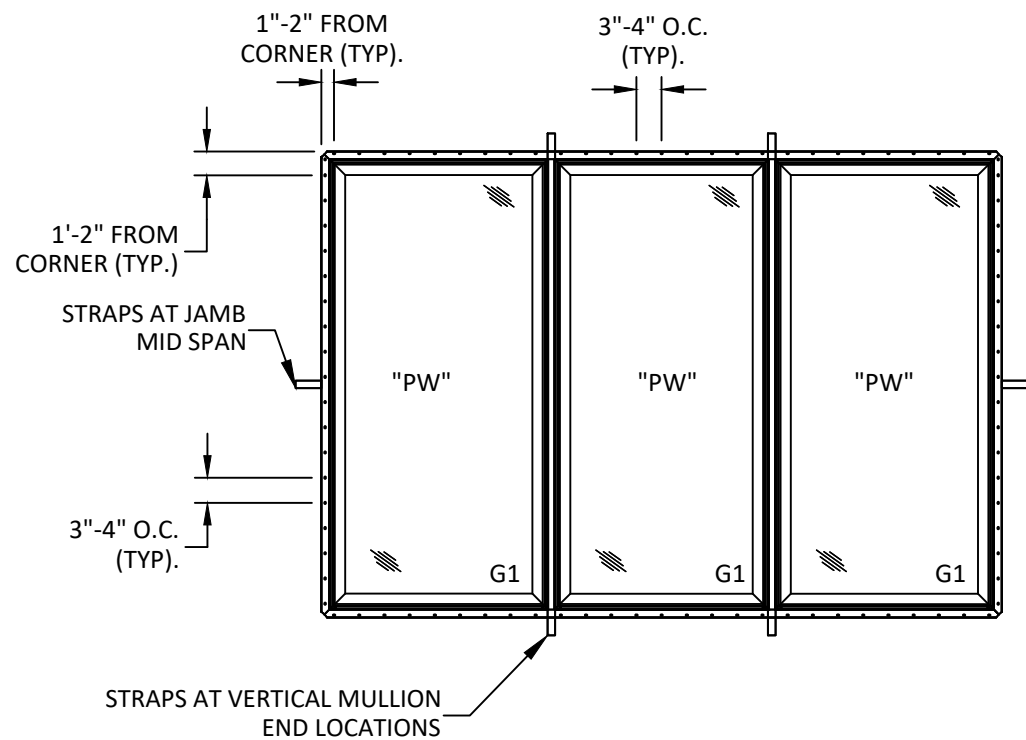


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ADDITIONAL DETAILS	LL	02/22
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FL #: FL23011		
DATE: 05.22.2020		
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SCALE: NTS		
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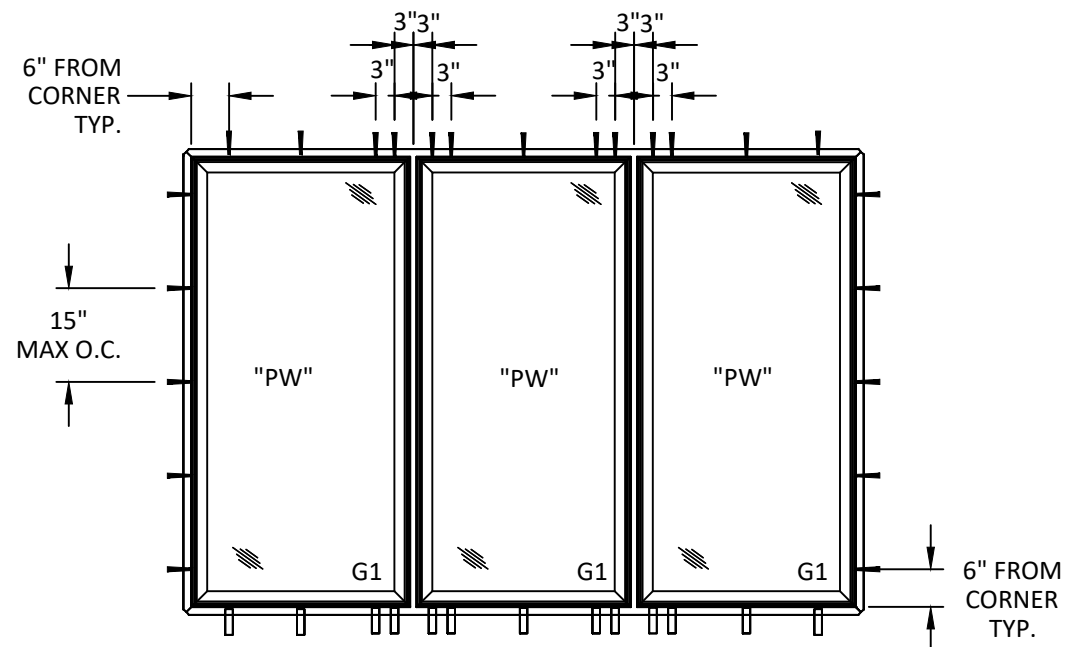
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EXTERIOR ELEVATION
PW-PW-PW



ANCHOR LAYOUT
PW-PW-PW
NAIL FIN AND STRAP



ANCHOR LAYOUT
PW-PW-PW
THROUGH FRAME + STRAP



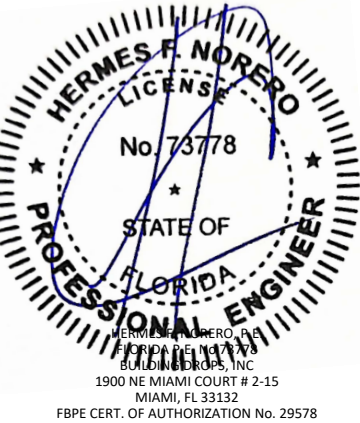
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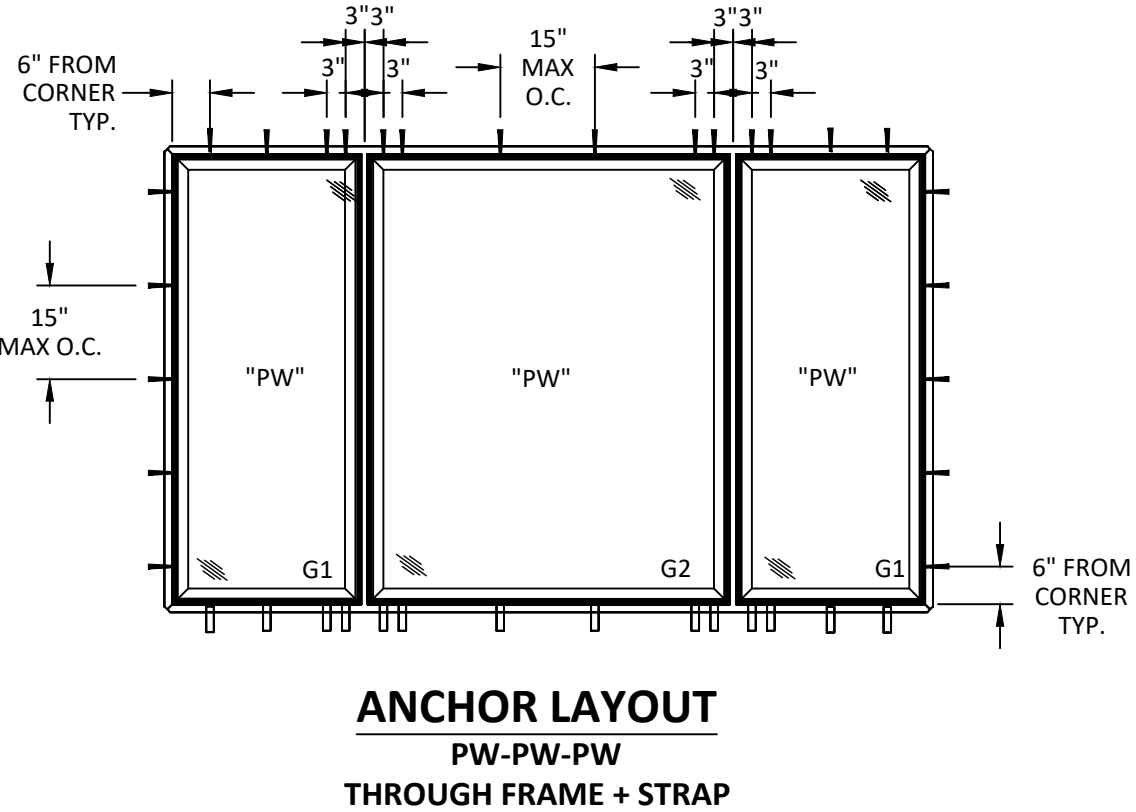
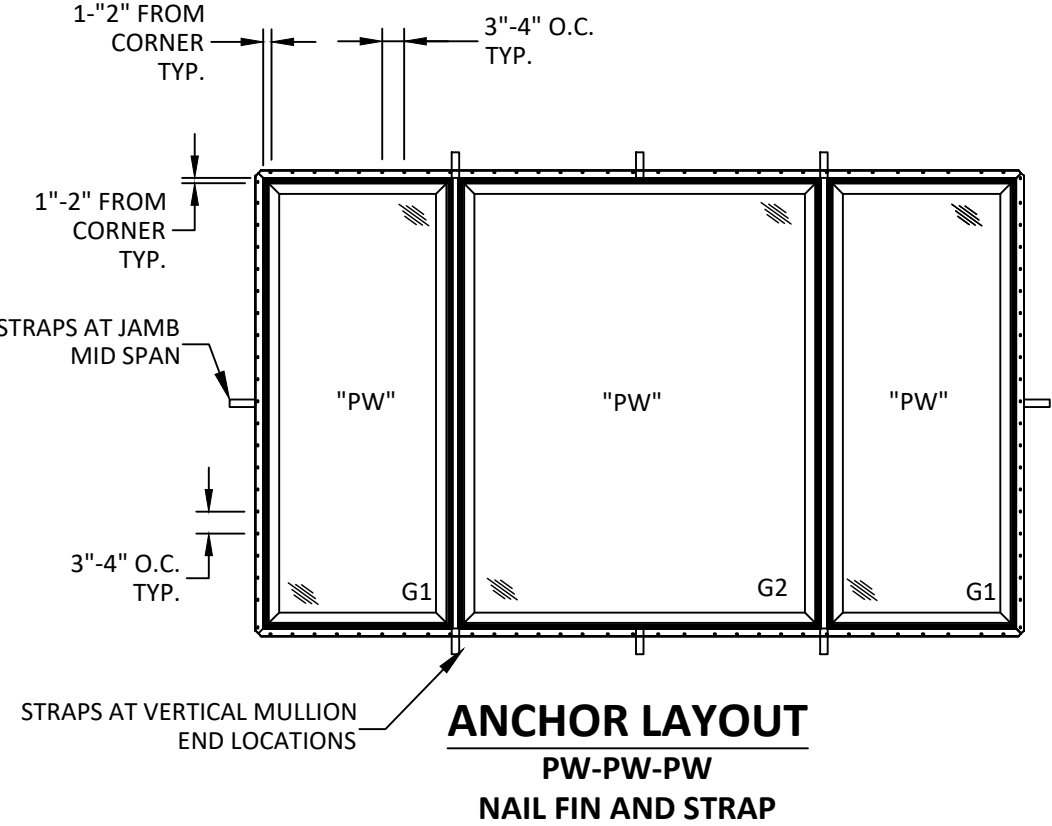
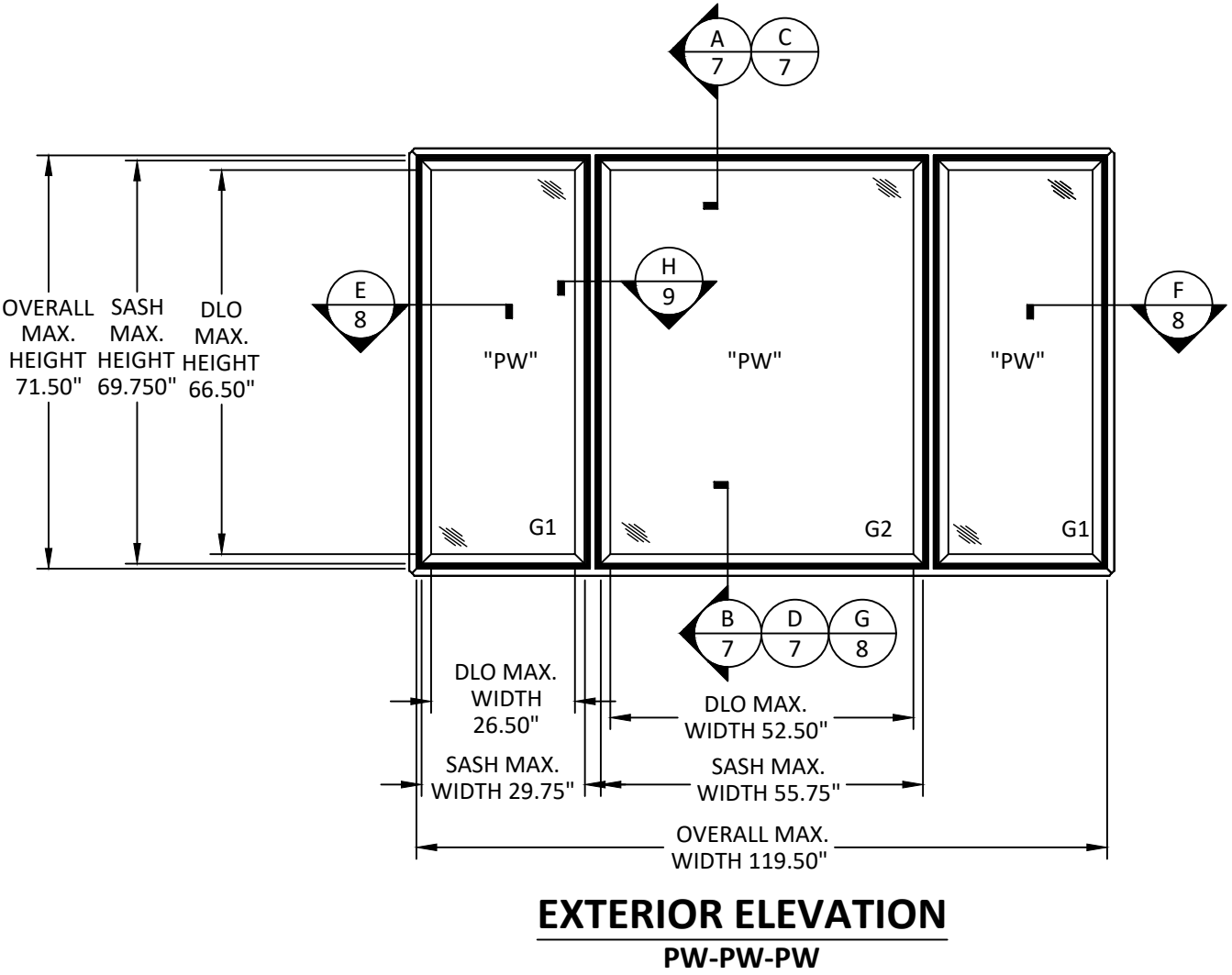
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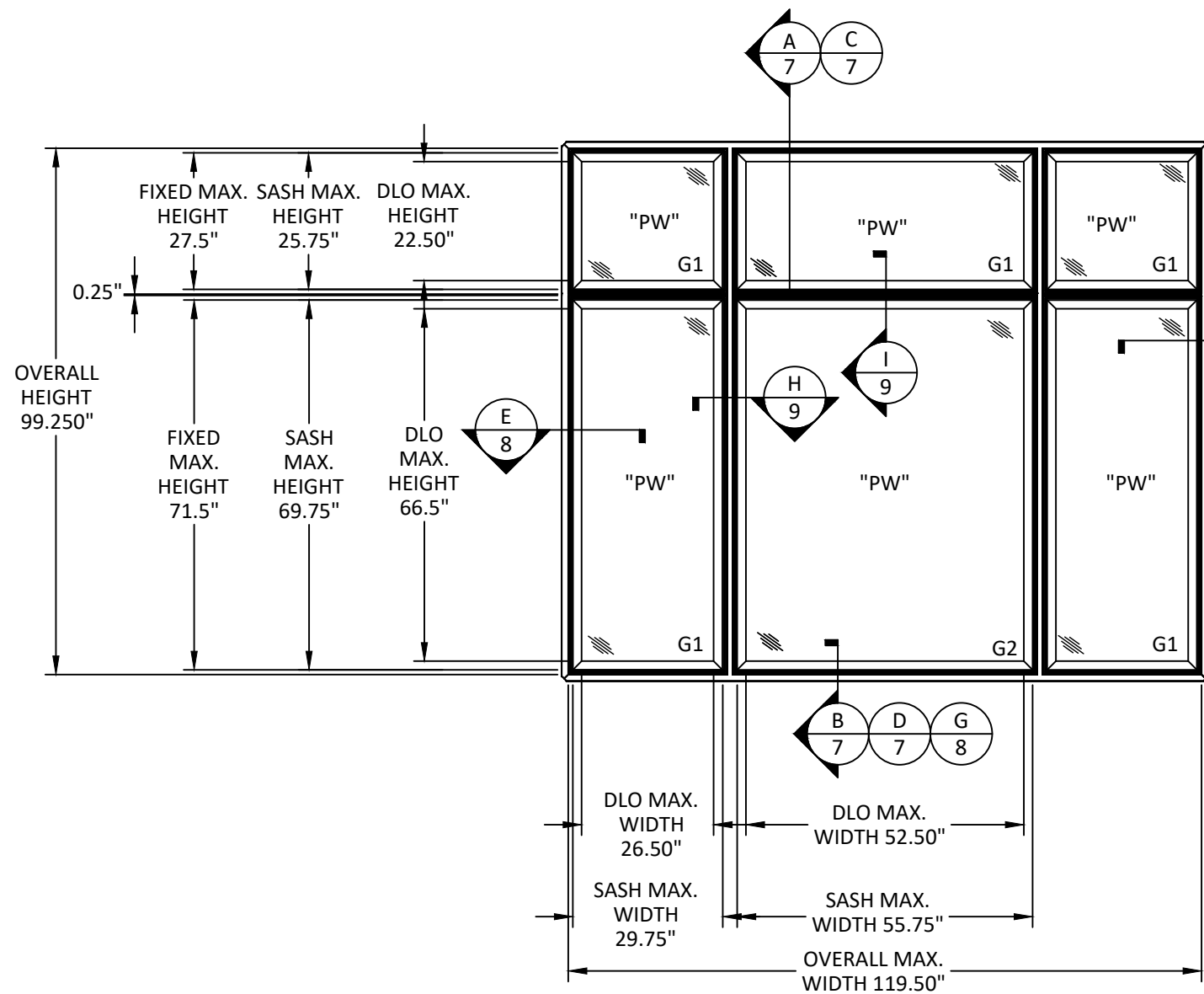
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HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI COURT # 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

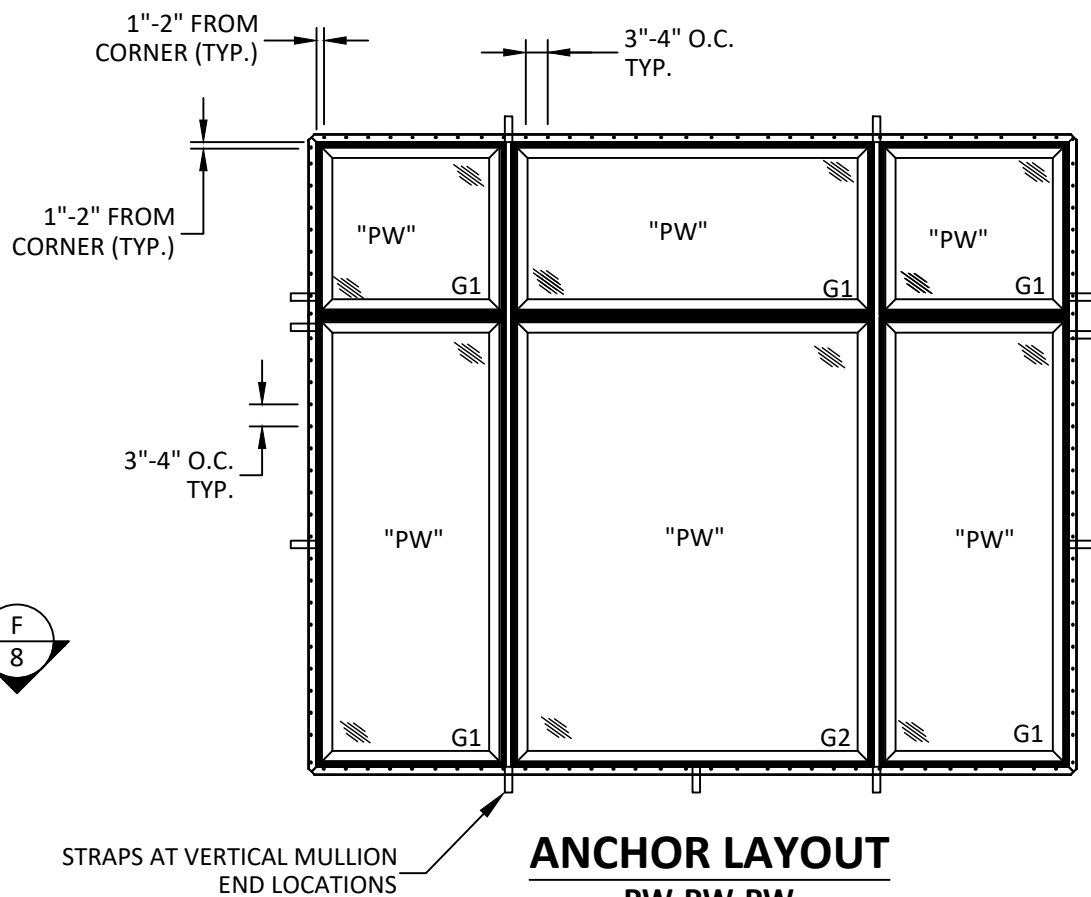
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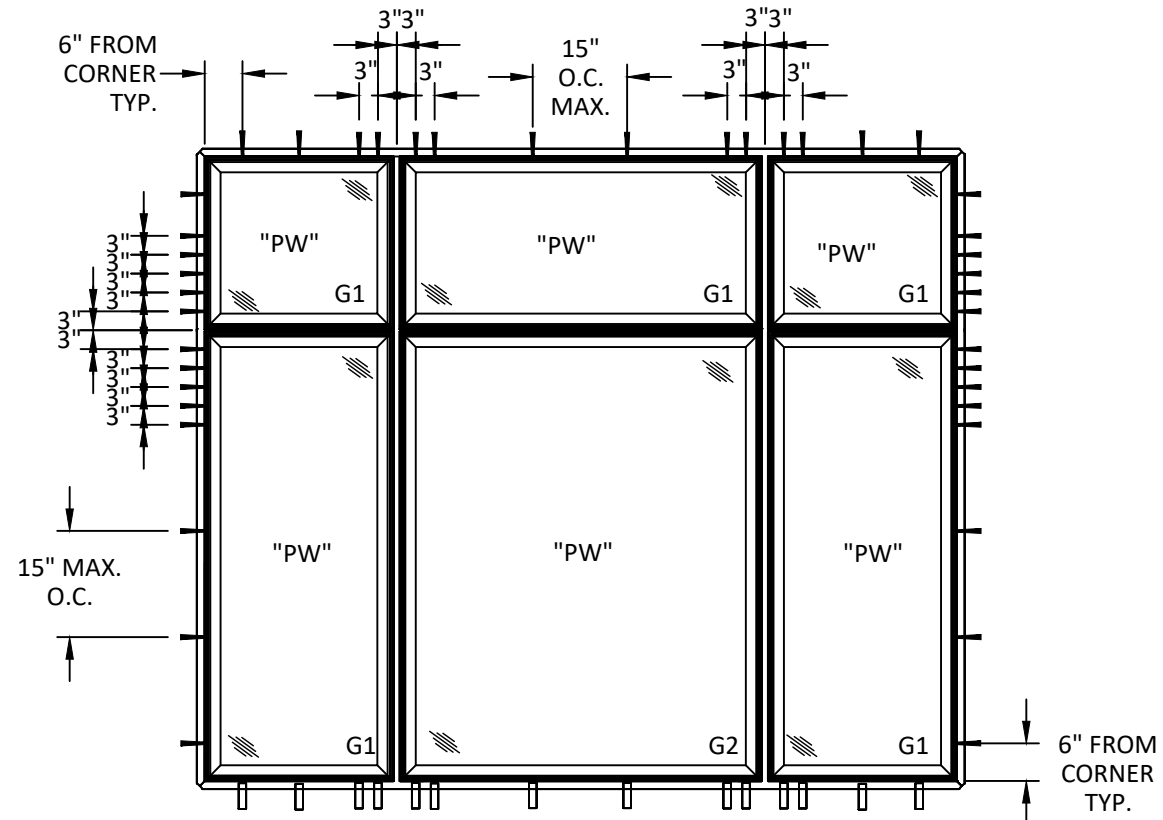
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EXTERIOR ELEVATION
PW-PW-PW
WITH TRANSOMS



ANCHOR LAYOUT
PW-PW-PW
NAIL FIN AND STRAP



ANCHOR LAYOUT
PW-PW-PW
THROUGH FRAME + STRAP



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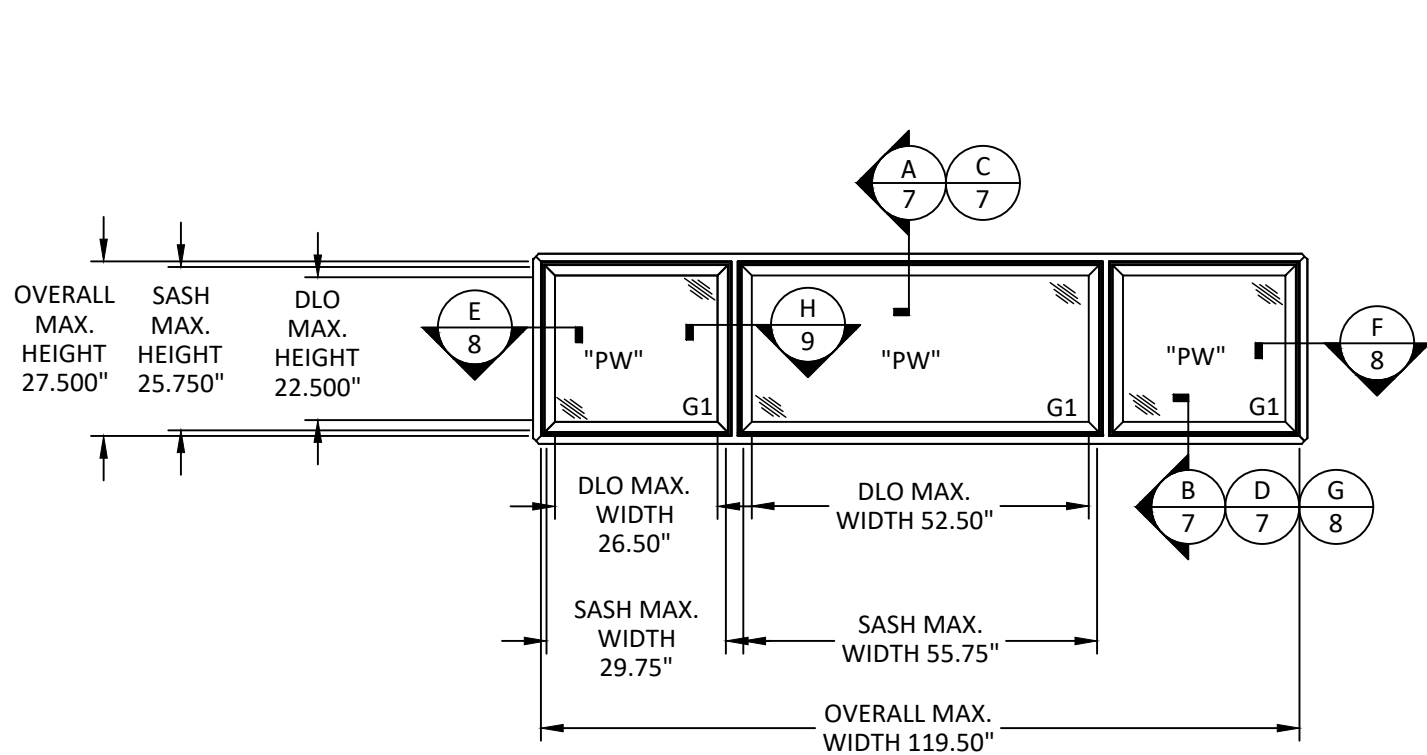
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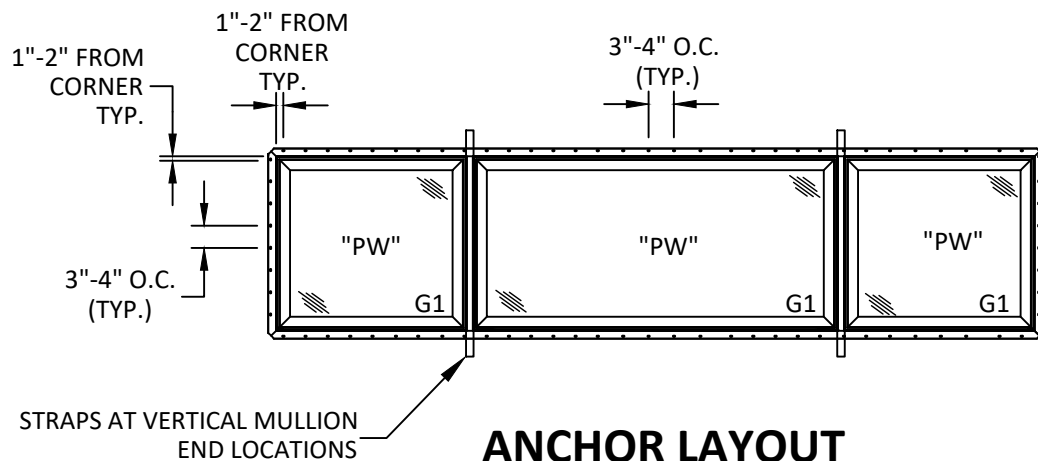


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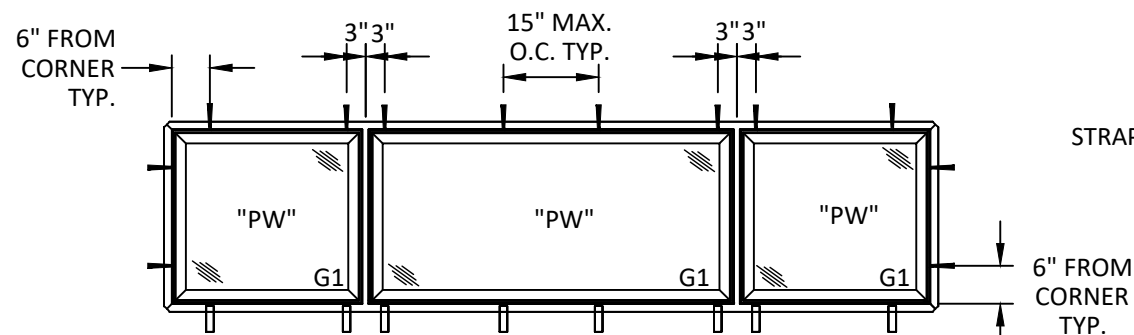
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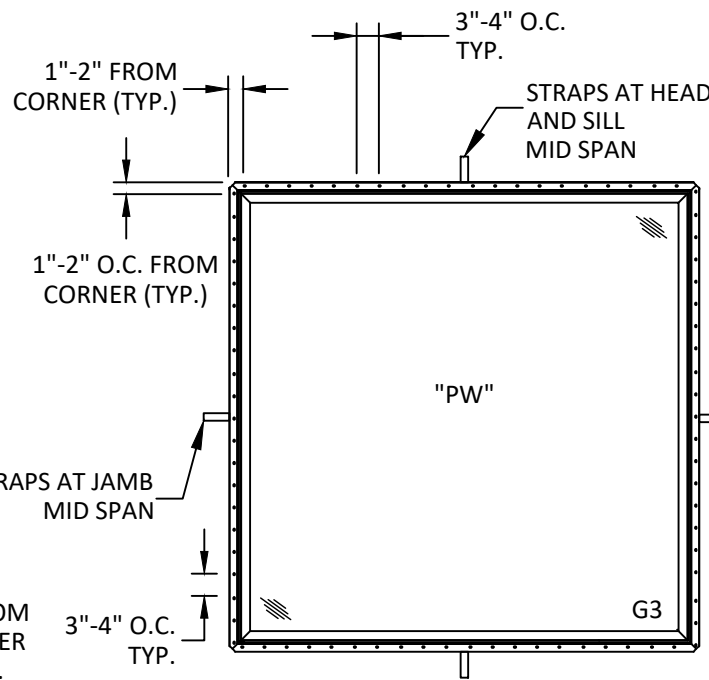
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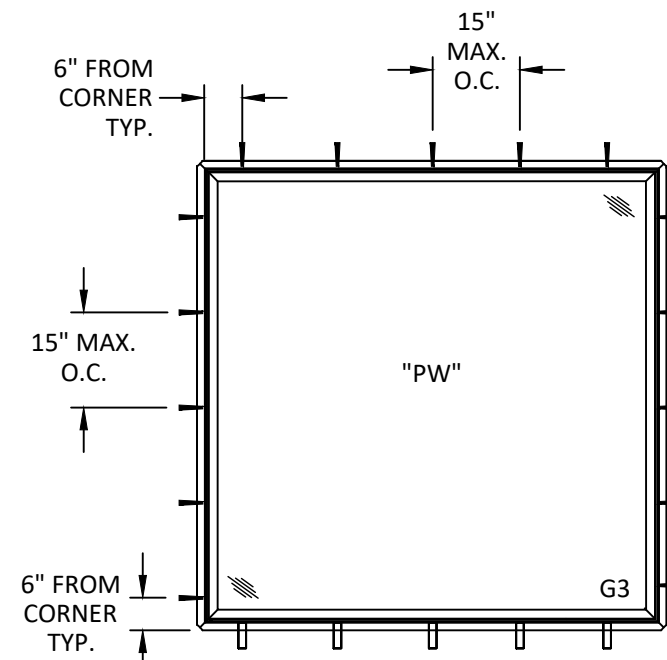
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NAIL FIN AND STRAP**



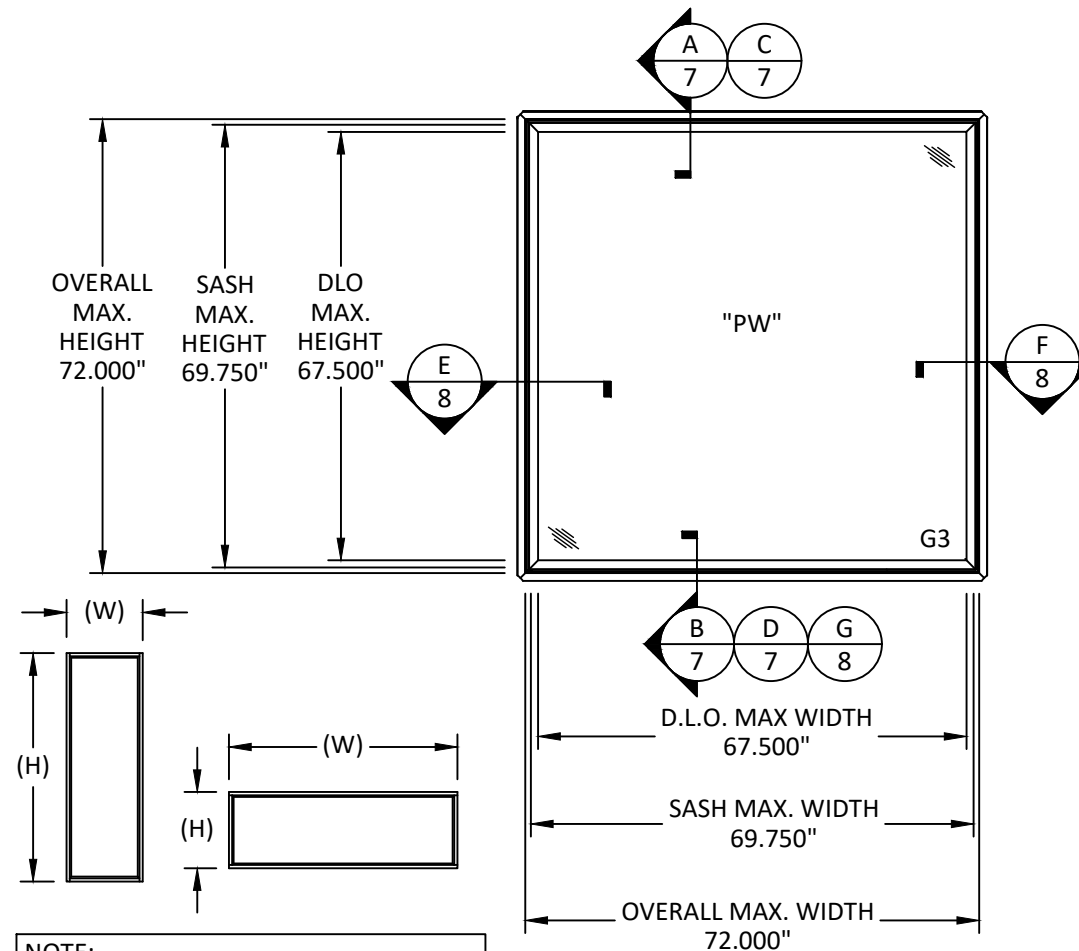
**ANCHOR LAYOUT
THROUGH FRAME + STRAP**



**ANCHOR LAYOUT
NAIL FIN AND STRAP**



**ANCHOR LAYOUT
THROUGH FRAME + STRAP**



**EXTERIOR ELEVATION
PW**

NOTE:
WINDOW WIDTH (W) AND HEIGHT
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SIZES SHOWN HEREIN NOT TO EXCEED
MAXIMUM TESTED SQUARE FOOT AREA.



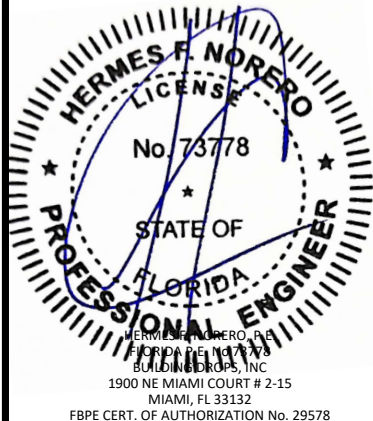
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SCALE: **NTS**

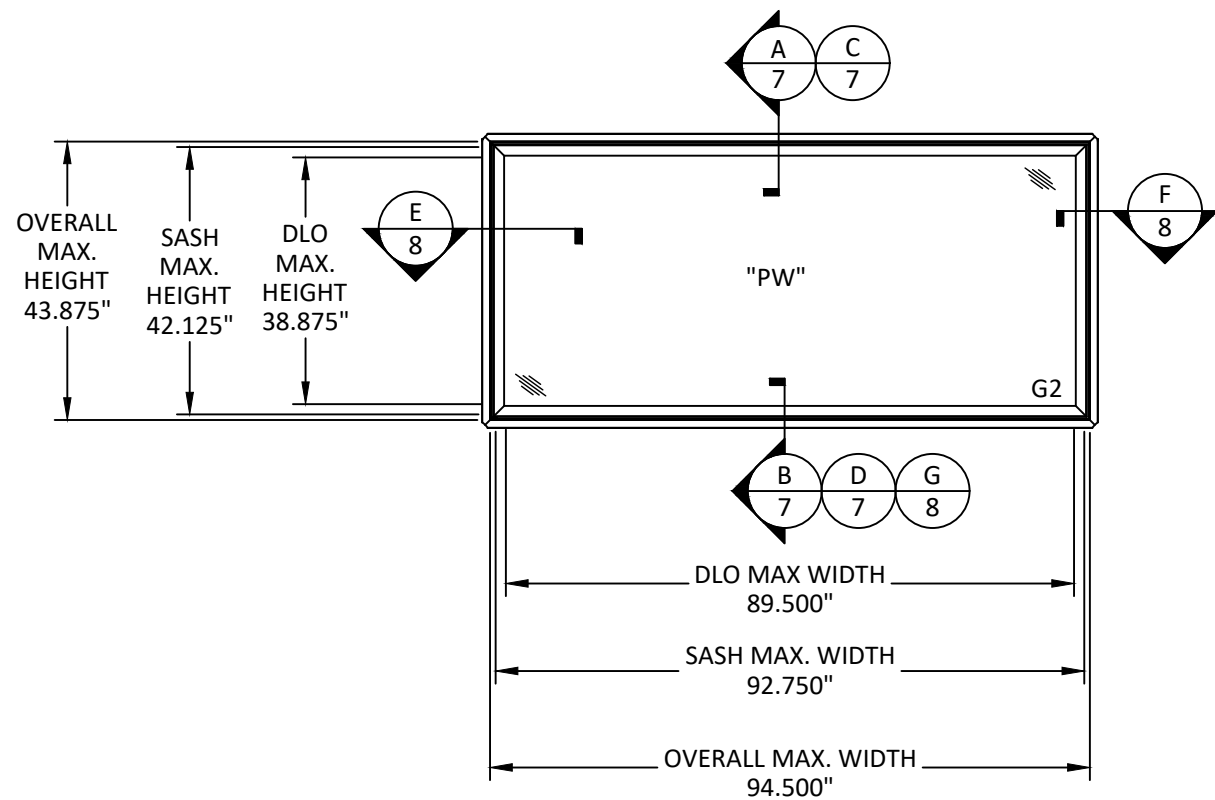
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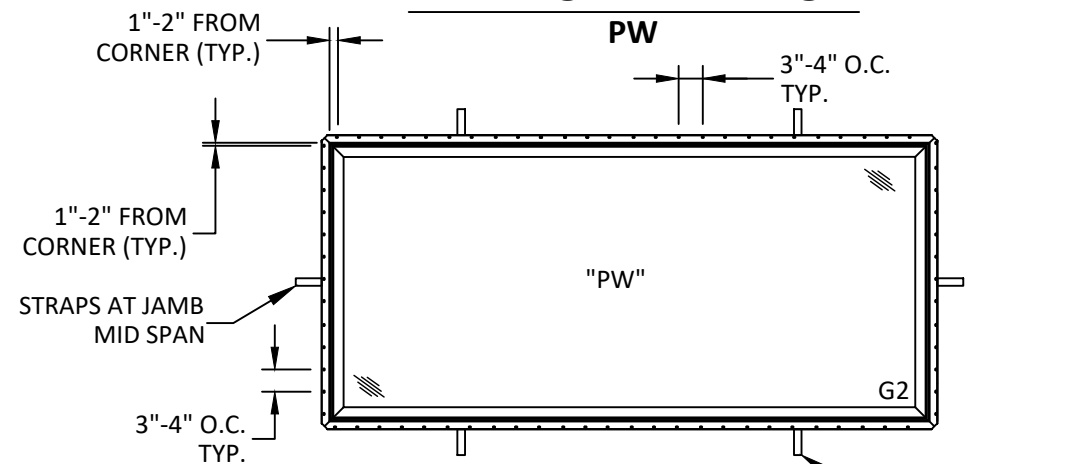
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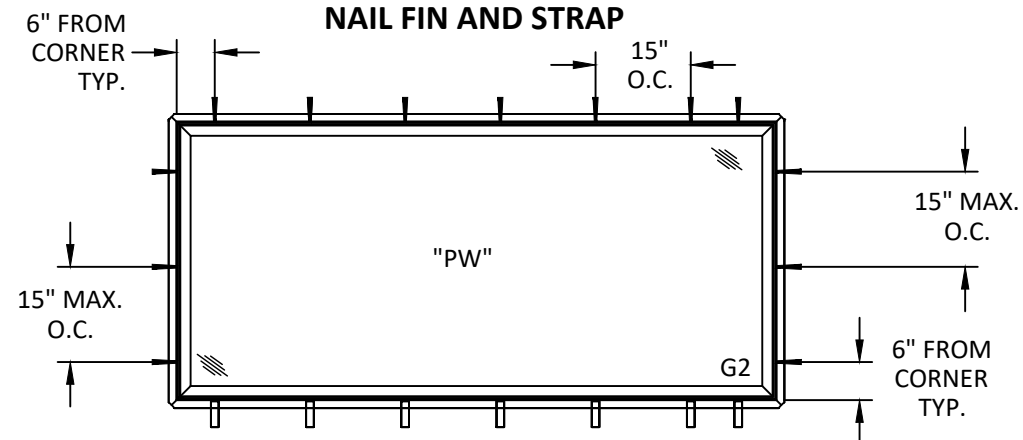
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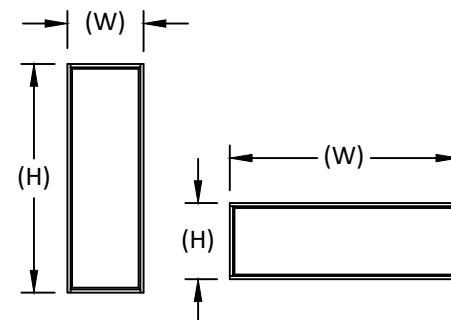
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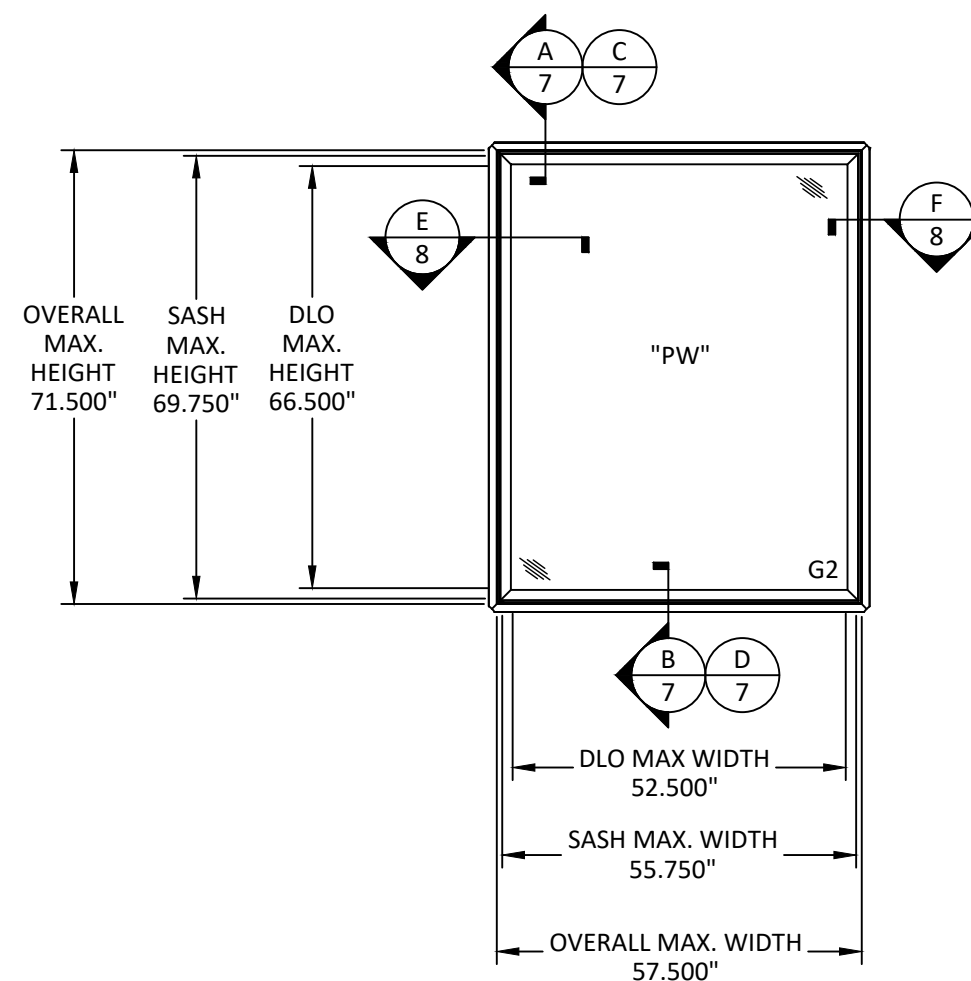
**ANCHOR LAYOUT
NAIL FIN AND STRAP**



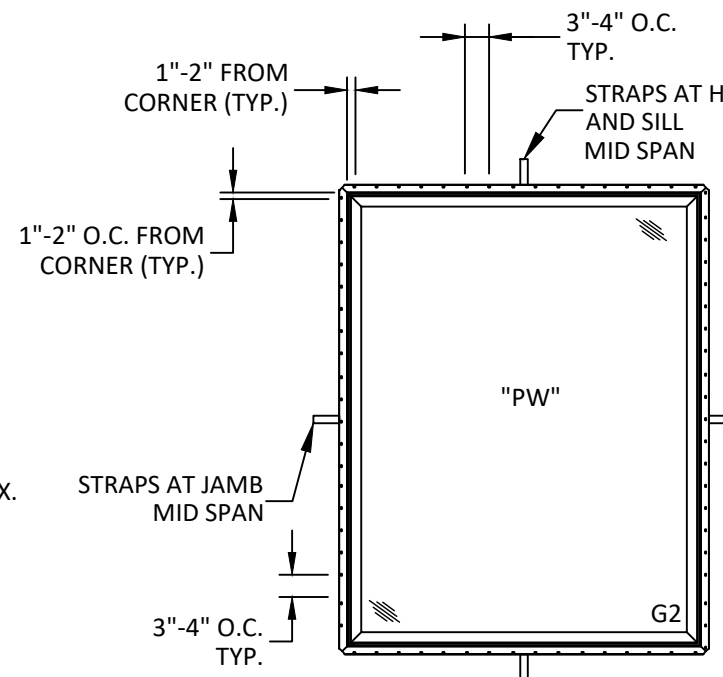
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THROUGH FRAME + STRAP**



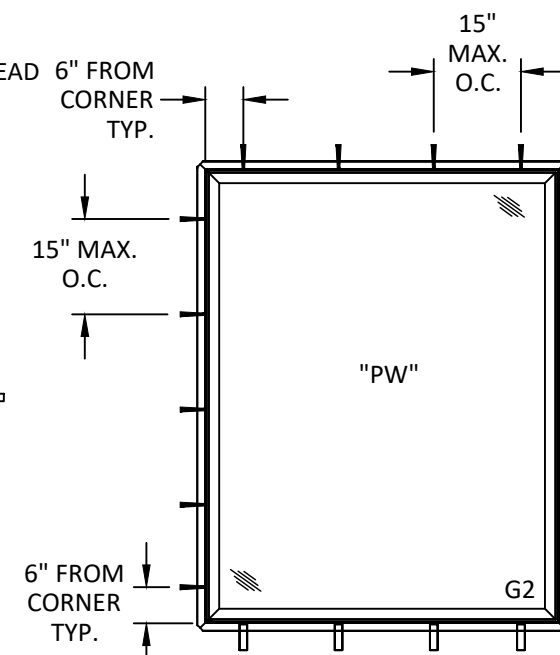
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EXTERIOR ELEVATION



**ANCHOR LAYOUT
NAIL FIN AND STRAP**



**ANCHOR LAYOUT
THROUGH FRAME + STRAP**



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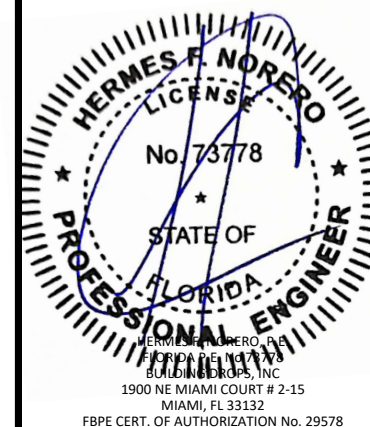
TITLE: FEELSAFE H3 2.0 FIXED
CASEMENT WINDOWS
(WZ3)(IMPACT)
ELEVATIONS & ANCHOR LAYOUTS

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MIAMI, FL 33132
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FAX: (954)744-4738
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CODE CHANGE 2020	YC	10/20
ADDITIONAL DETAILS	LL	02/22
CODE CHANGE 2023	MG	08/23
2026 FBC UPDATE	LS	06/26

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FL #:

FL23011

DATE: **05.22.2020**

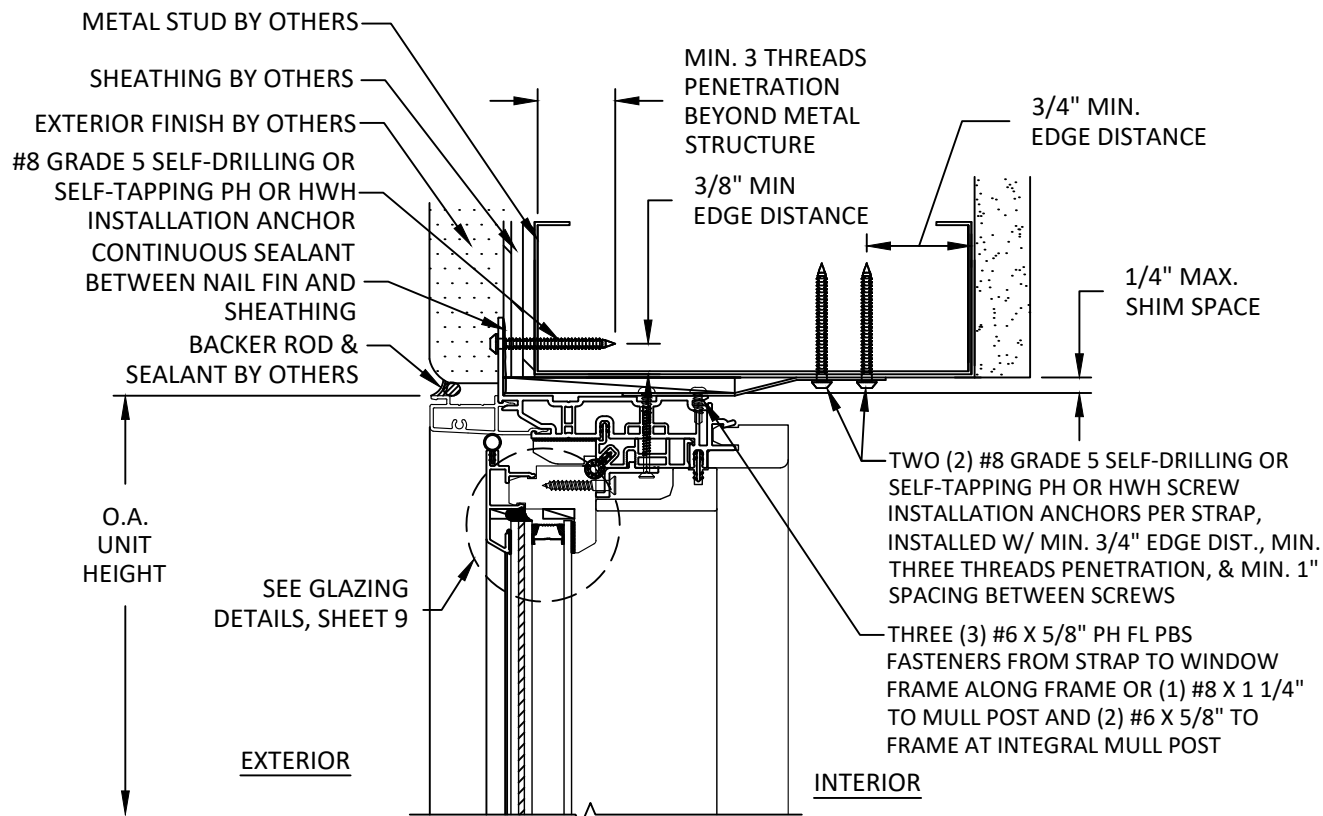
DWG. BY: **YC** CHK. BY: **HFN**

SCALE: **NTS**

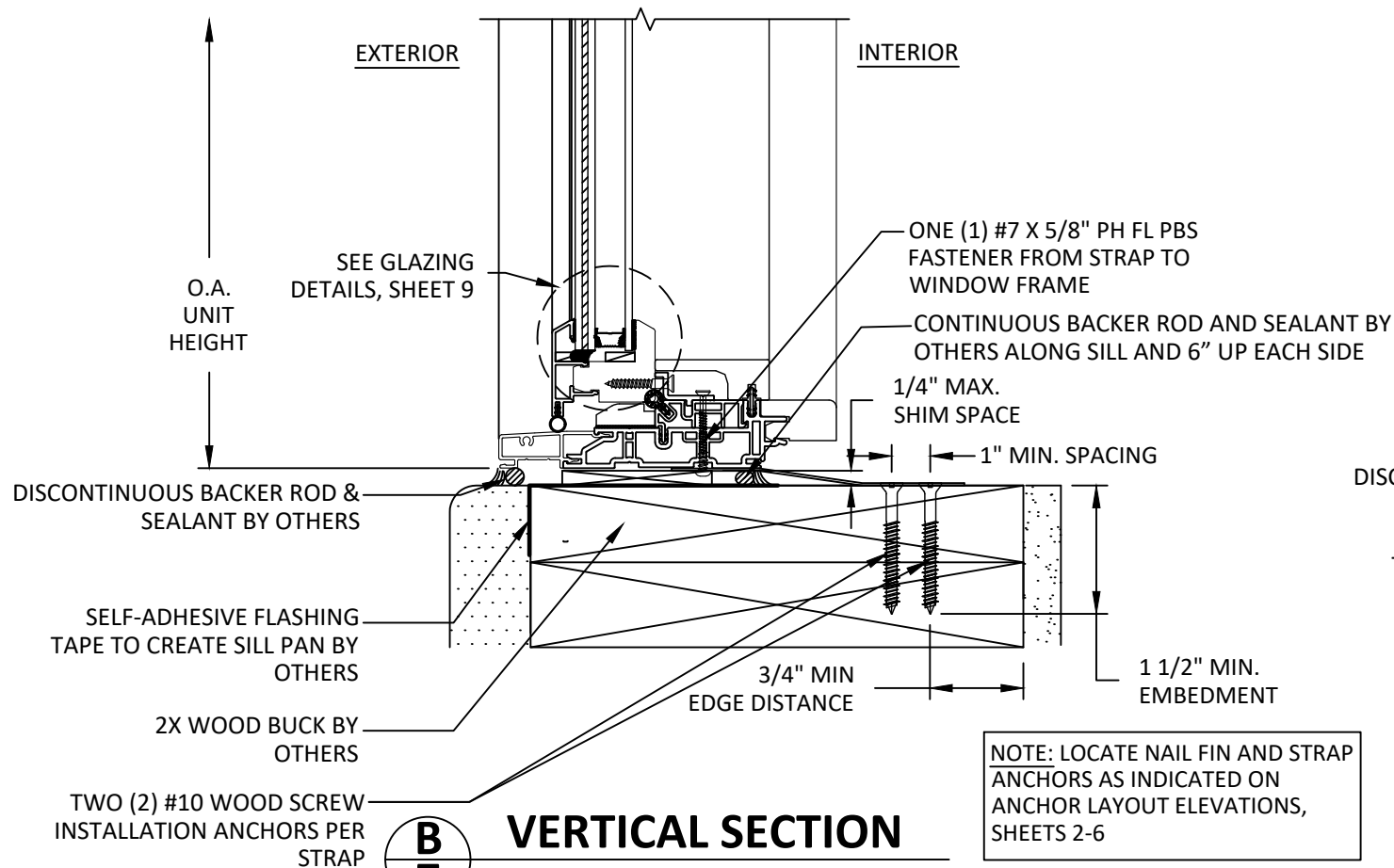
DWG. #: **SPW011**

SHEET: **6** REV. **D**

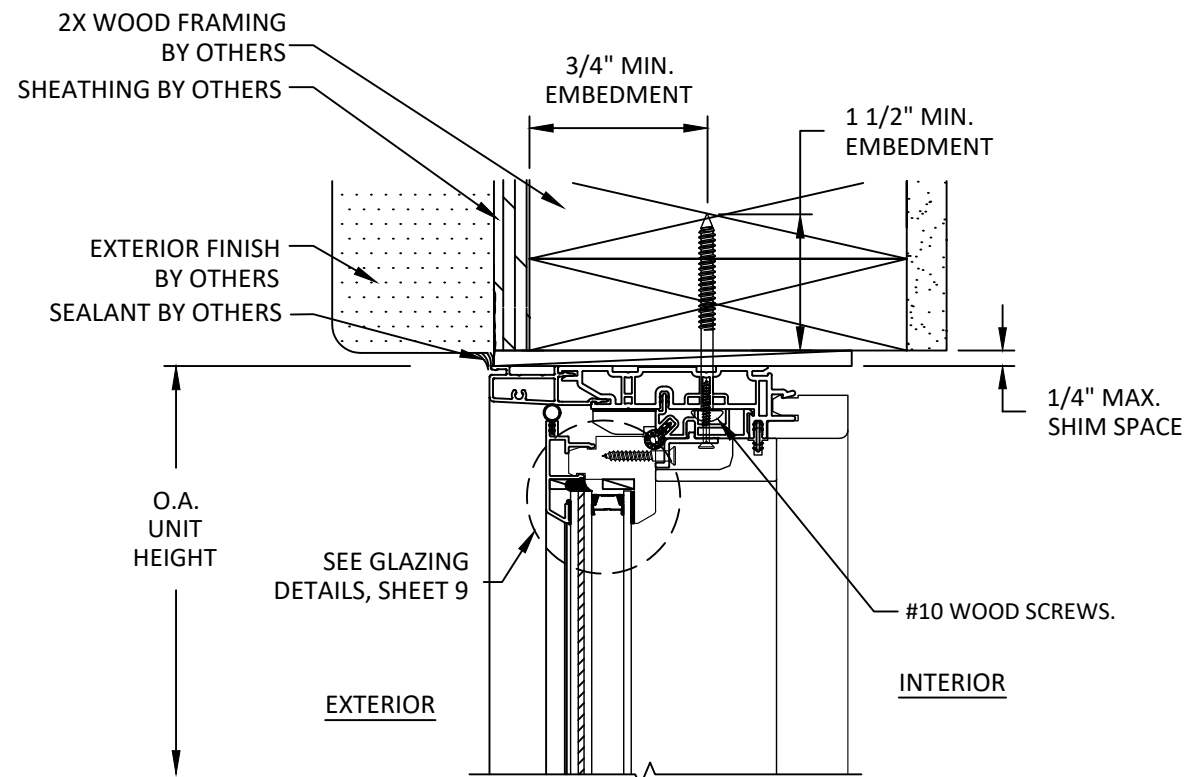
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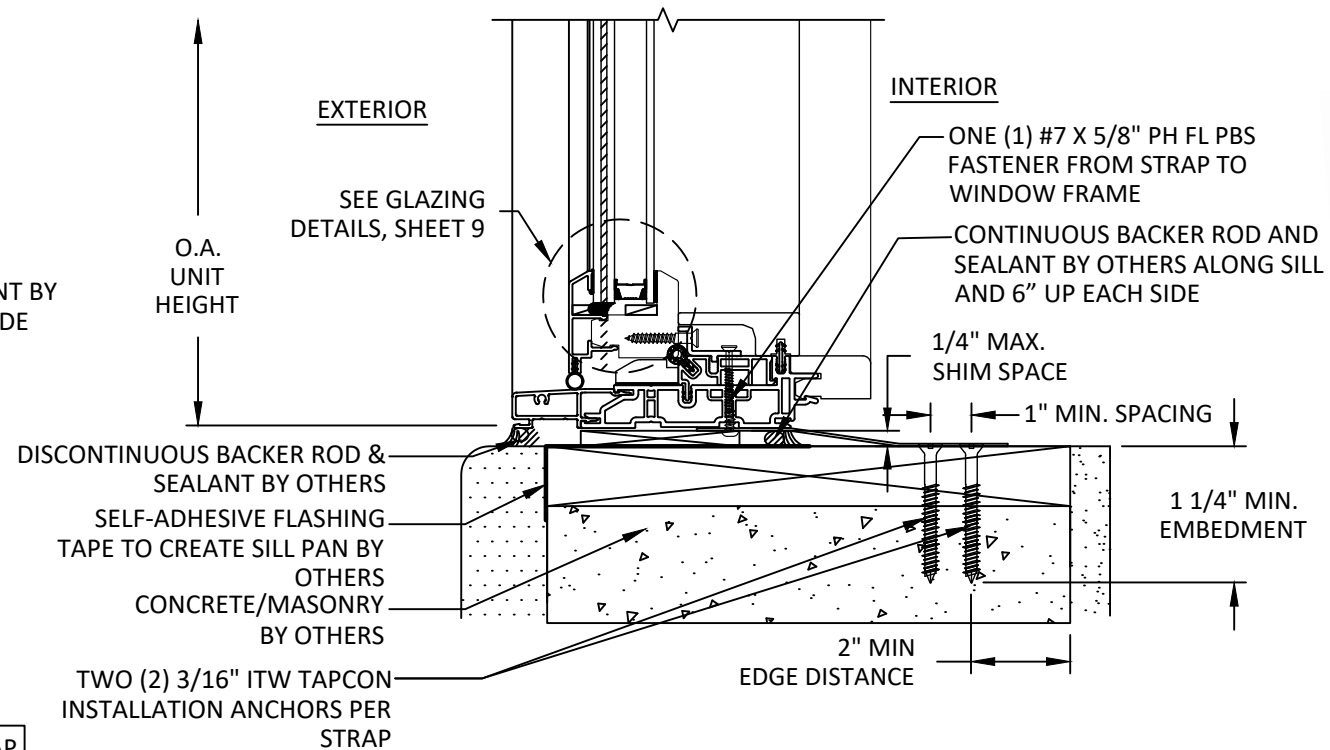
A
7
VERTICAL SECTION
FIXED HEAD-METAL STUD
FIN INSTALLATION



B
7
VERTICAL SECTION
FIXED SILL - 2X WOOD FRAME
FLEXIBLE SILL PAN INSTALLATION



C
7
VERTICAL SECTION
FIXED-WOOD THROUGH FRAME INSTALLATION



D
7
VERTICAL SECTION
FIXED SILL - CONCRETE/MASONRY
FLEXIBLE SILL PAN INSTALLATION



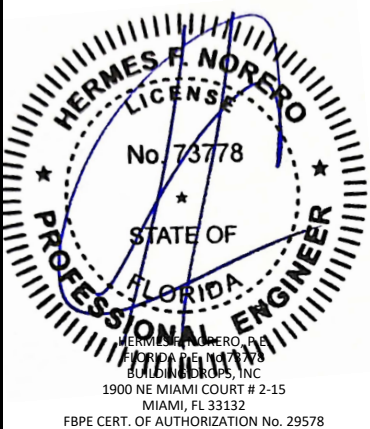
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TITLE: FEELSAFE H3 2.0 FIXED
CASEMENT WINDOWS
(WZ3)(IMPACT)
VERTICAL SECTIONS

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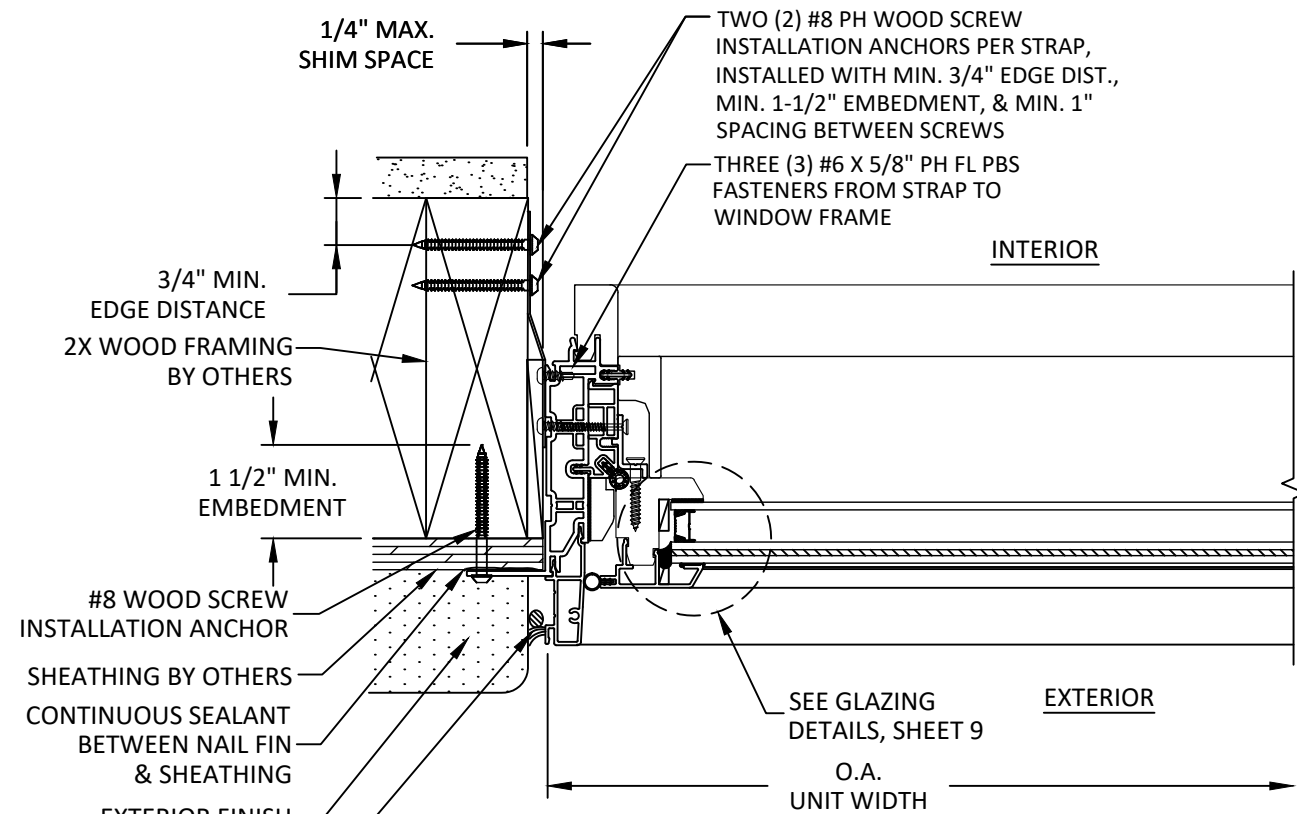
REMARKS	BY	DATE
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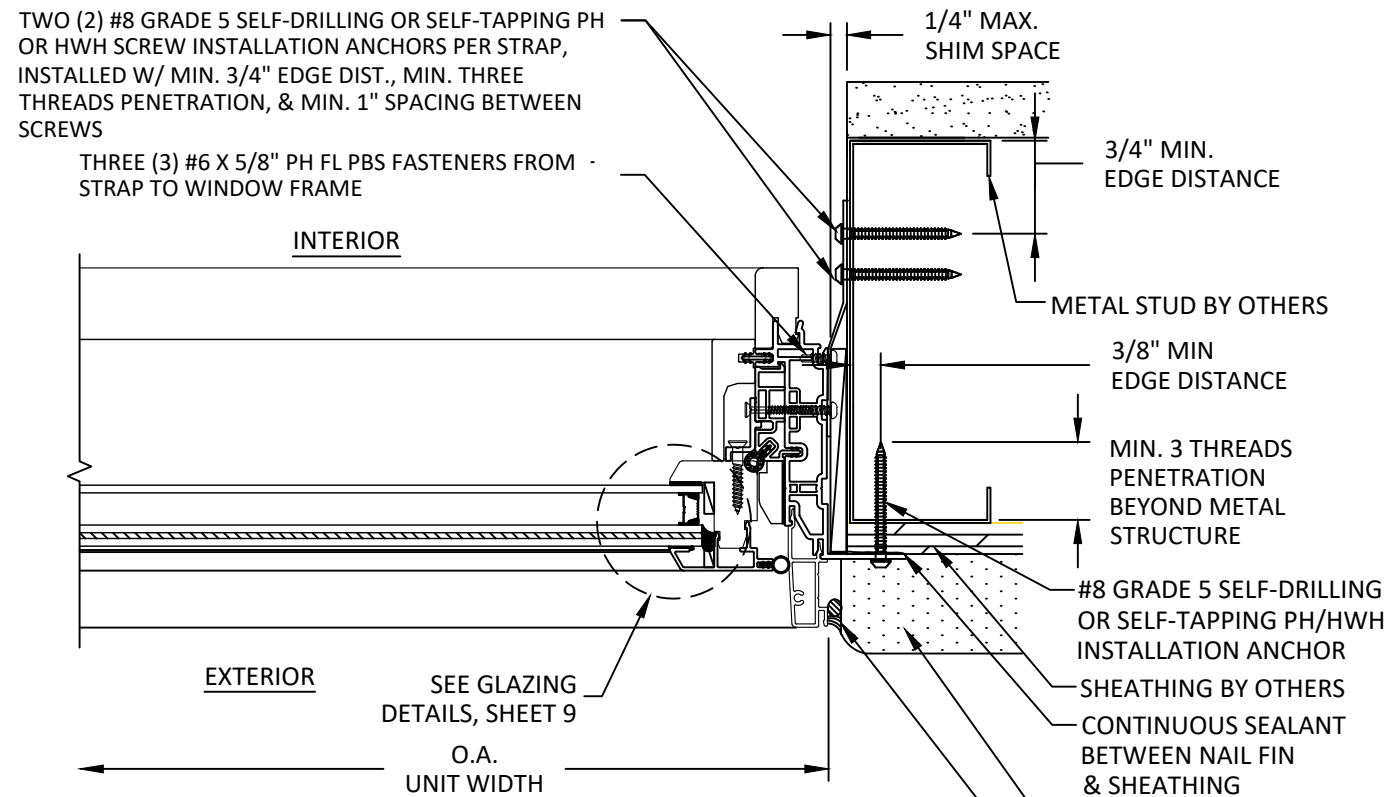


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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	SPW011
SHEET:	7
REV.	D

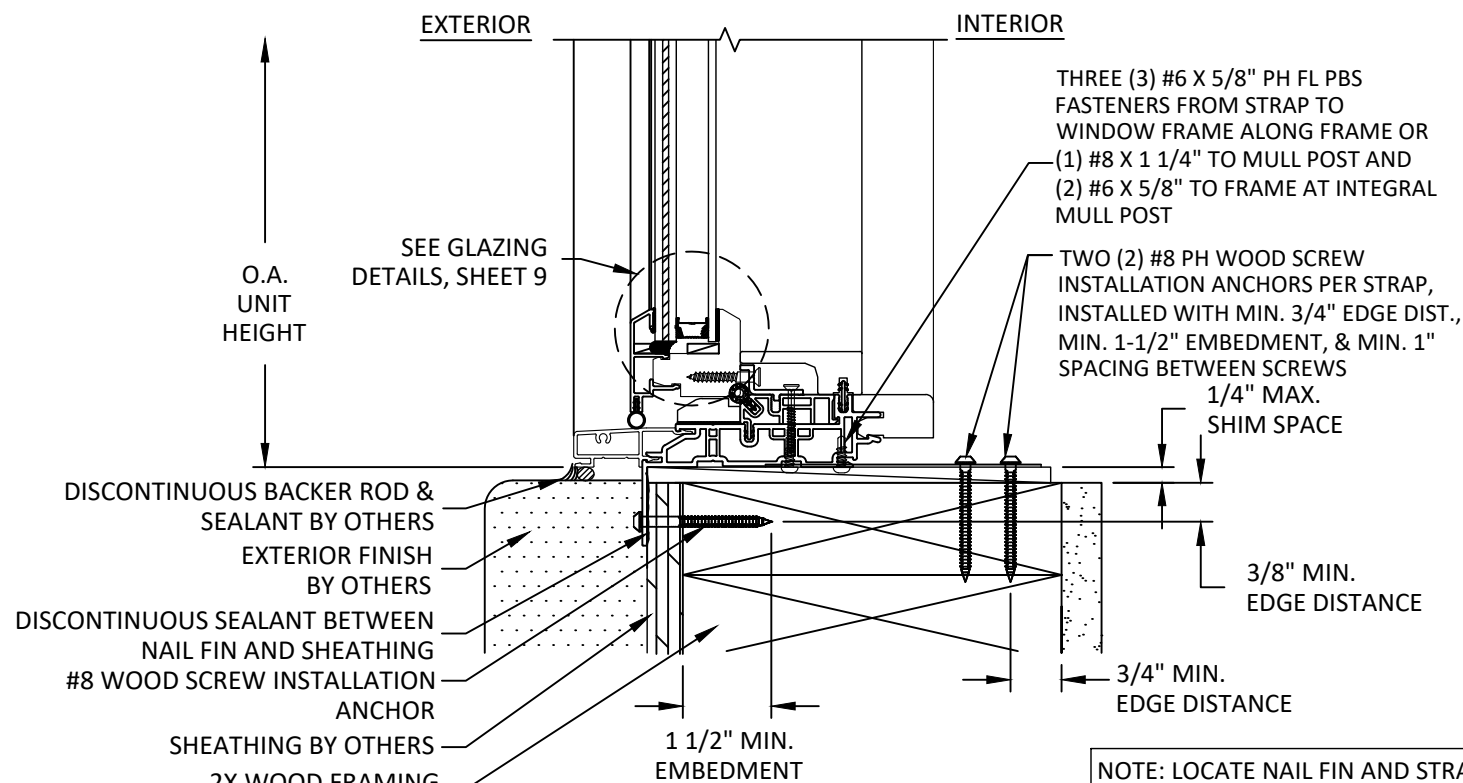
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E8 **HORIZONTAL SECTION**
FIXED JAMB - 2X WOOD FRAME
FIN + STRAP INSTALLATION



F8 **HORIZONTAL SECTION**
FIXED JAMB - STEEL STUD
FIN + STRAP INSTALLATION



G8 **VERTICAL SECTION**
FIXED SILL - 2X WOOD FRAME
FIN + STRAP INSTALLATION

NOTE: LOCATE NAIL FIN AND STRAP ANCHORS AS INDICATED ON ANCHOR LAYOUT ELEVATIONS, SHEETS 2-6



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TITLE: FEELSAFE H3 2.0 FIXED
CASEMENT WINDOWS
(WZ3)(IMPACT)
HORIZONTAL AND VERTICAL SECTIONS

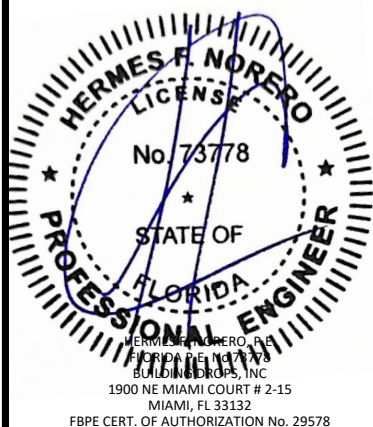
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SCALE: **NTS**

DWG. #: **SPW011**

SHEET:

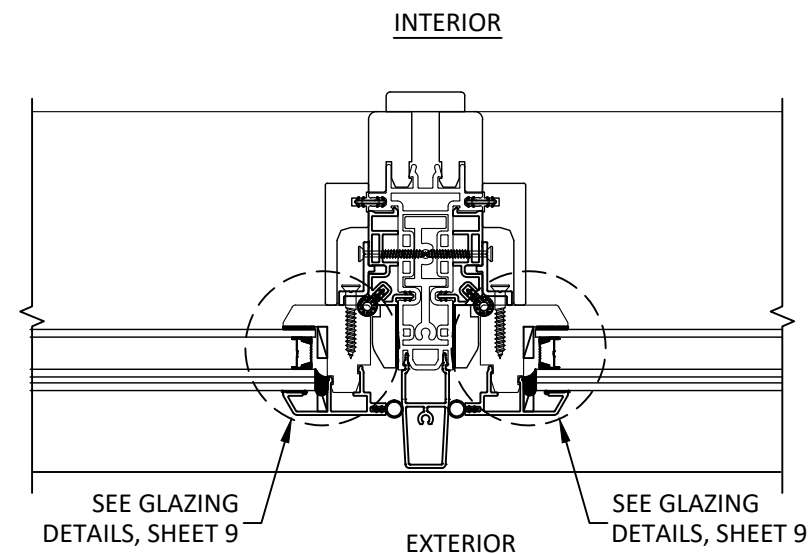
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REV.

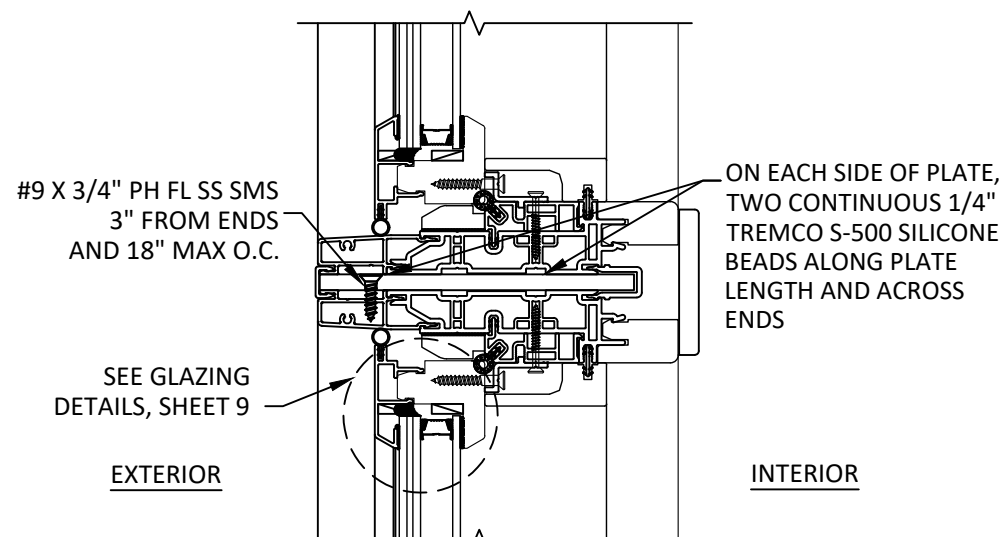
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OF 11

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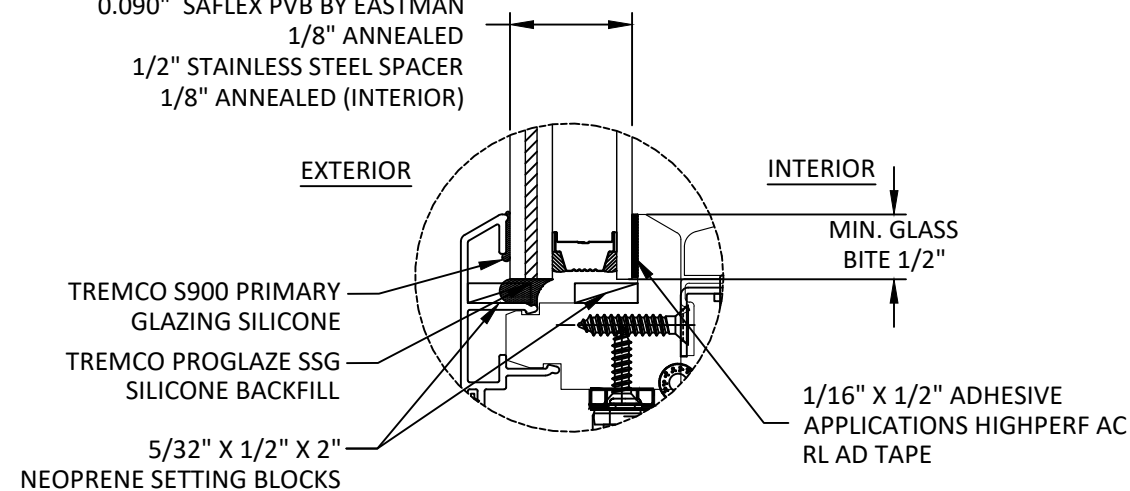


H
9 **HORIZONTAL SECTION**
FIXED CASEMENT UNIT

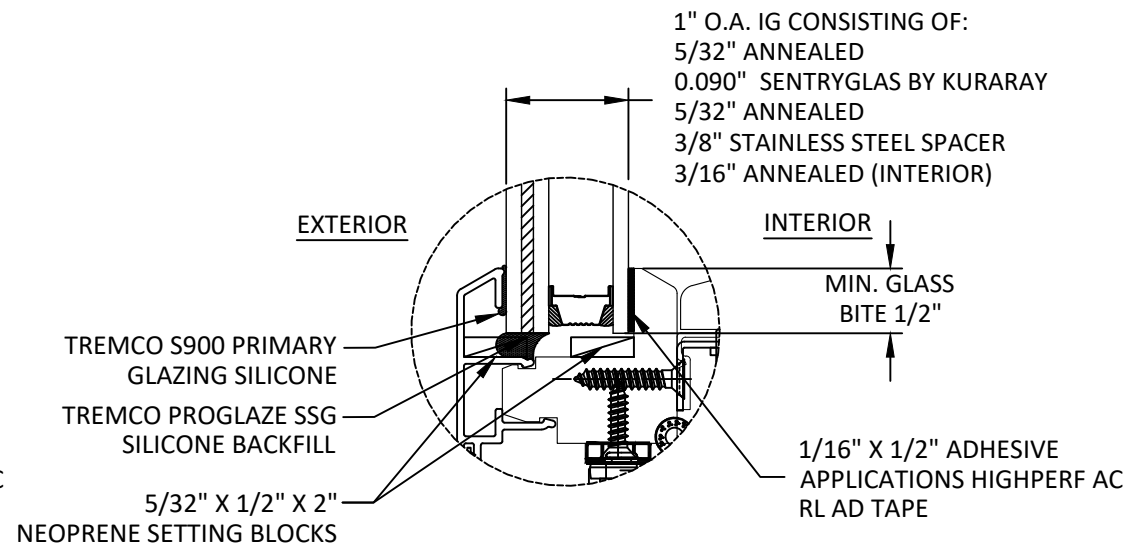


I
9 **VERTICAL SECTION**
FIXED CASEMENT & FIXED CASEMENT UNIT

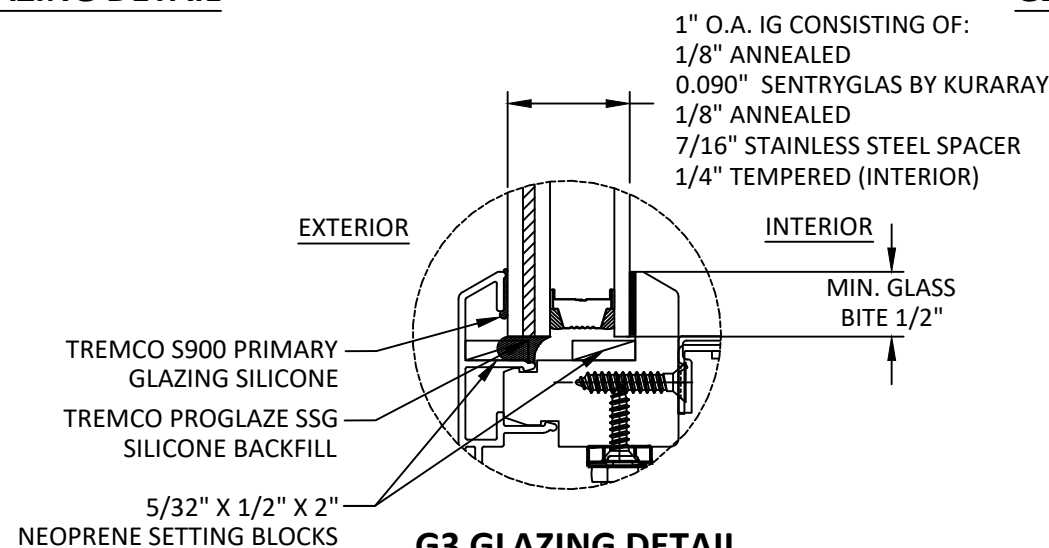
1" O.A. IG CONSISTING OF:
1/8" ANNEALED
0.090" SAFLEX PVB BY EASTMAN
1/8" ANNEALED
1/2" STAINLESS STEEL SPACER
1/8" ANNEALED (INTERIOR)



G1 GLAZING DETAIL



G2 GLAZING DETAIL



G3 GLAZING DETAIL

NOTES:

- 1) GLASS TYPE COMPLIES WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER FBC.
- 2) SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- 3) SETTING BLOCK TO BE LOCATED AT 1/4" SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24
- 4) TEMPERED GLASS SHALL BE USED ON THE EXTERIOR LITE FOR APPLICATION ABOVE 30 FT.



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CASEMENT WINDOWS
(WZ3)(IMPACT)
HORIZONTAL/VERTICAL SECTIONS
& GLAZING DETAILS

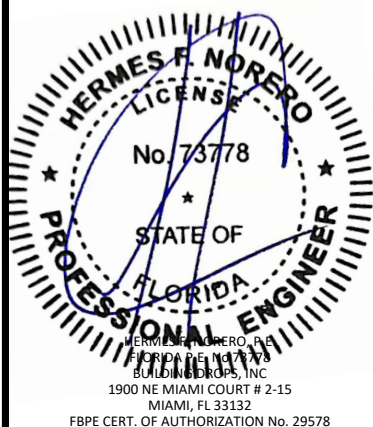
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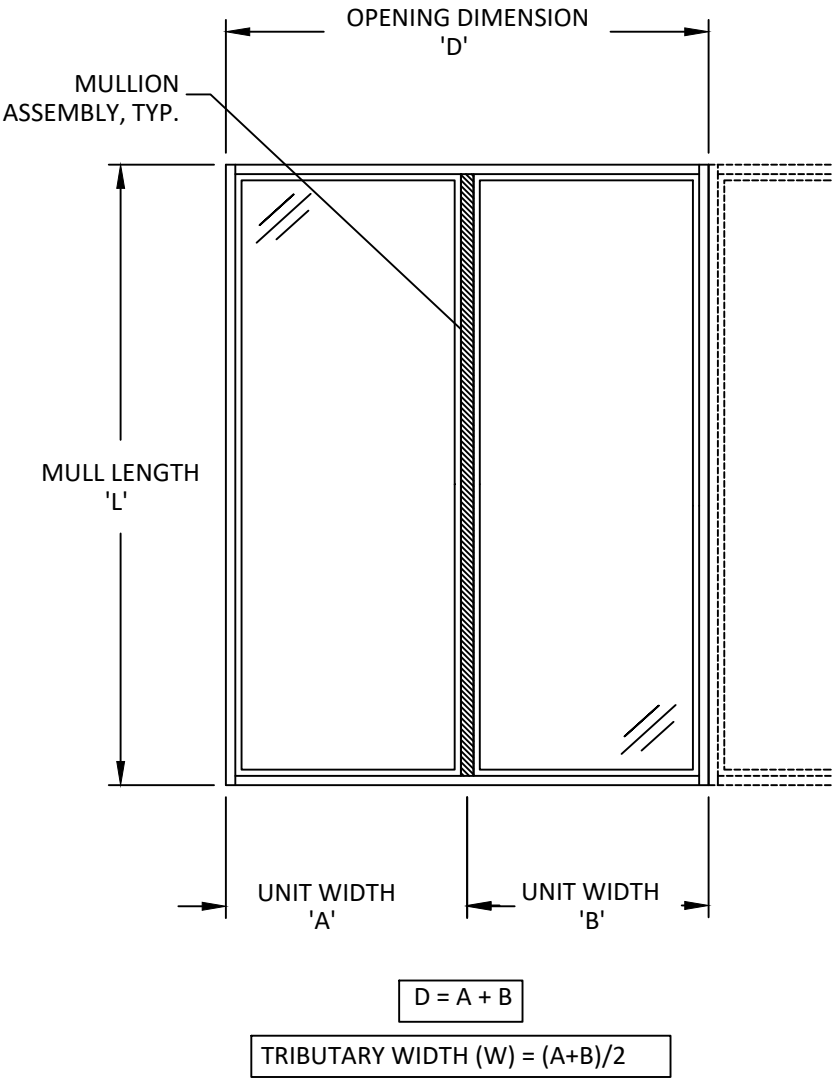
SCALE: **NTS**

DWG. #: **SPW011**

SHEET: **9** REV. **D**

FIXED CASEMENT TO FIXED CASEMENT (1/4" X 5" PLATE MULLION)
ONE-WAY CONFIGURATIONS (NO INTERMEDIATE MEMBERS)

MAXIMUM DESIGN PRESSURE CAPACITY CHART ONE WAY CASEMENT TO CASEMENT 1/4" x 5" ALUMINUM PLATE MULLION			
TRIBUTARY WIDTH (IN.)	LENGTH (IN.)	DESIGN PRESSURE (PSF)	
		POS (+)	NEG (-)
24	60	50.0	60.0
30		50.0	60.0
36		50.0	60.0
42		50.0	60.0
48		50.0	60.0
24	66	50.0	60.0
30		50.0	60.0
36		50.0	60.0
42		50.0	60.0
44		50.0	60.0
24	72	50.0	60.0
30		50.0	60.0
36		50.0	60.0
40		50.0	60.0
24	78	50.0	60.0
30		50.0	60.0
36		50.0	60.0
38		50.0	60.0
24	83.5	50.0	60.0
30		50.0	60.0
35.625		50.0	60.0
24	90	50.0	60.0
30		44.8	53.7



NOTES:

- 'ONE-WAY' MULLIONS REFER TO VERTICAL SINGLE SPAN ASSEMBLIES SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
- THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'STANDARD INSTALLATION' PROCEDURES, SEE DETAILS ON SHEETS 7-9.
- DESIGN PRESSURES SHALL BE GOVERNED BY THE LESSER OF THE MULLION ASSEMBLY (LISTED IN TABLE) OR INDIVIDUAL WINDOW UNIT.
- MULLIONS MAY BE USED IN ASSEMBLIES UTILIZING MORE THAN TWO WINDOW UNITS AND CAN BE USED FOR UNLIMITED NUMBER OF PANELS.

FIXED CASEMENT - FIXED CASEMENT INTEGRAL MULLION
ONE-WAY CONFIGURATIONS (NO INTERMEDIATE MEMBERS)

MAXIMUM DESIGN PRESSURE CAPACITY CHART ONE WAY CASEMENT TO FIXED CASEMENT INTEGRAL MULLION			
TRIBUTARY WIDTH (IN.)	LENGTH (IN.)	DESIGN PRESSURE (PSF)	
		POS (+)	NEG (-)
24	54	50.0	60.0
30		50.0	60.0
36		50.0	60.0
42		50.0	60.0
48		50.0	60.0
52	60	50.0	60.0
24		50.0	60.0
30		50.0	60.0
36		50.0	60.0
42		50.0	60.0
46	66	50.0	60.0
24		50.0	60.0
30		50.0	60.0
36		50.0	60.0
42		50.0	60.0
24	71.5	50.0	60.0
30		50.0	60.0
36		50.0	60.0
39.83		50.0	60.0
24	78	50.0	60.0
30		47.8	57.3
32		45.2	54.2
24	84	46.5	55.8
28		40.4	48.4



SIERRA
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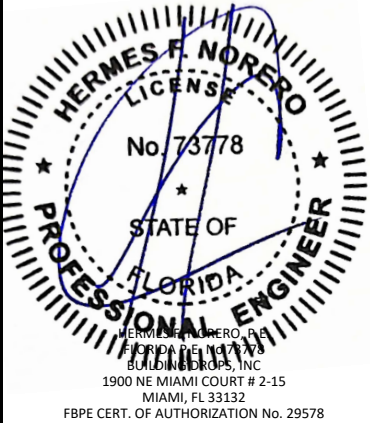
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TITLE: FEELSAFE H3 2.0 FIXED
CASEMENT WINDOWS
(WZ3)(IMPACT)
ONE-WAY DESIGN PRESSURE TABLES

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REMARKS	BY	DATE
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BUILDING DROPS, INC.
1900 NE MIAMI COURT # 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL23011

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SCALE: **NTS**

DWG. #: **SPW011**

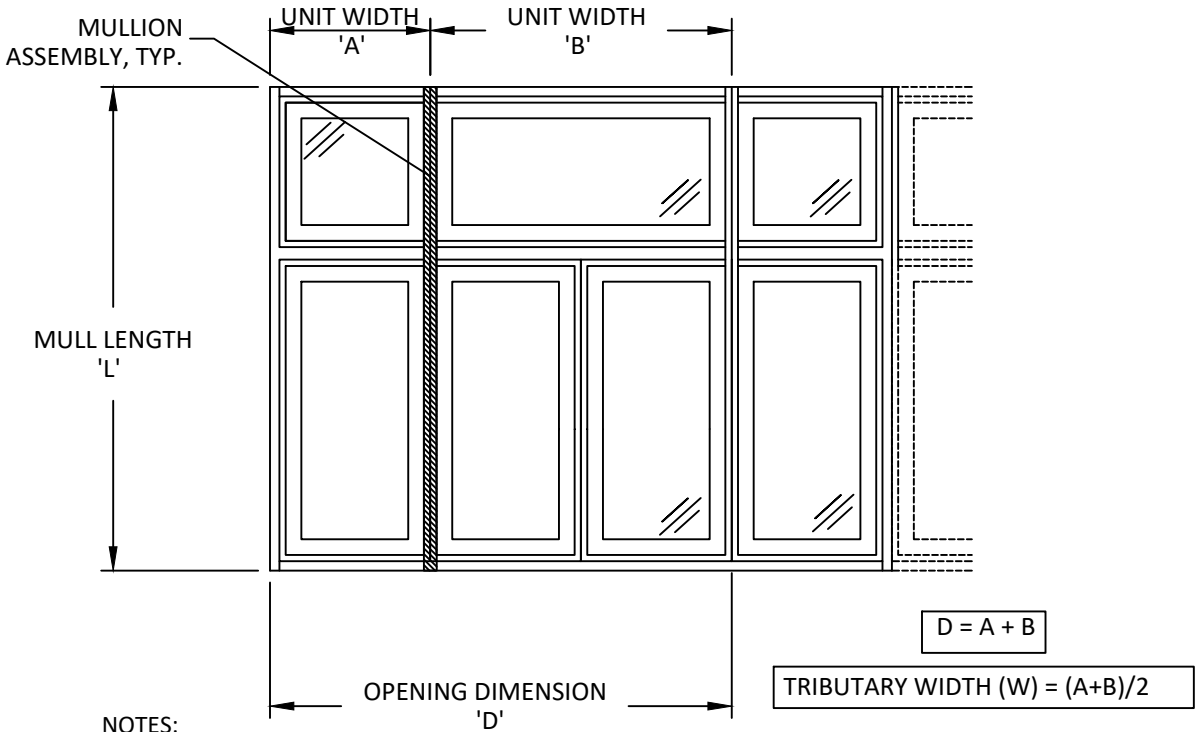
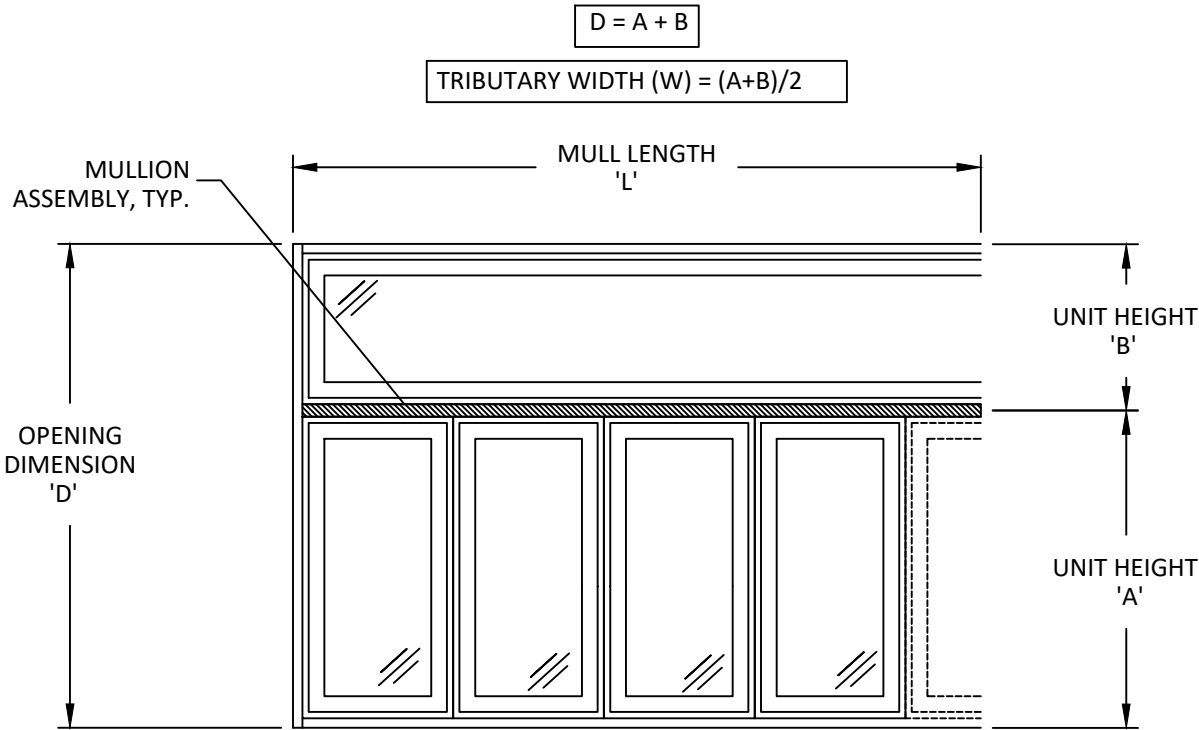
SHEET: **10** REV. **D**

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1/4" PLATE REINFORCED MULLION
TWO-WAY CONFIGURATIONS (WITH INTERMEDIATE MEMBERS)

MAXIMUM DESIGN PRESSURE CAPACITY CHART TWO WAY CASEMENT AND FIXED COMBINATIONS WITH 1/4" x 5" STEEL PLATE MULLION			
TRIBUTARY WIDTH (IN.)	LENGTH (IN.)	DESIGN PRESSURE (PSF)	
		POS (+)	NEG (-)
36	96	50.0	60.0
42		50.0	60.0
48		50.0	60.0
54		50.0	60.0
60		50.0	60.0
36	102	50.0	60.0
42		50.0	60.0
48		50.0	60.0
54		50.0	60.0
58		50.0	60.0
36	108	50.0	60.0
42		50.0	60.0
48		50.0	60.0
54	114	50.0	60.0
42		50.0	60.0
48		50.0	60.0
52	119.5	50.0	60.0
36		50.0	60.0
42		50.0	60.0
46	126	46.1	55.4
36		50.0	60.0
42	132	43.9	52.7
44		41.9	50.3



- NOTES:
- 'TWO-WAY' MULLIONS REFER TO EITHER VERTICAL OR HORIZONTAL WITH INTERMEDIATE MEMBERS SIMILAR TO THOSE DIAGRAMMED ON THIS SHEET.
 - THE POSITIVE AND NEGATIVE DESIGN PRESSURE CHARTS ABOVE ARE APPLICABLE FOR 'STANDARD INSTALLATION' PROCEDURES, SEE DETAILS ON SHEETS 7-9.
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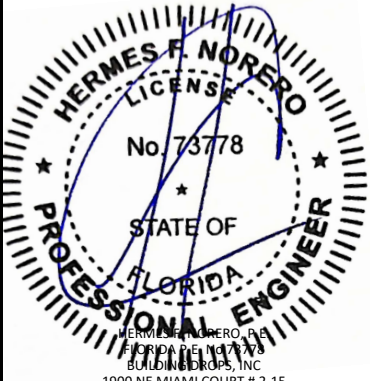
TITLE: FEELSAFE H3 2.0 FIXED
CASEMENT WINDOWS
(WZ3)(IMPACT)
TWO-WAY DESIGN PRESSURE TABLES

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SCALE: **NTS**

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11

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