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NOTE:

- THIS PRODUCT CAN BE COMBINED WITH OTHER FBC APPROVED OPTIMUM STEEL WINDOW AND DOOR PRODUCTS. WHEN MULLED COMBINATIONS ARE USED, THE LOWER DESIGN PRESSURE FROM EACH PRODUCT WILL APPLY TO THE ENTIRE SYSTEM. FINAL APPROVAL OF ALL DESIGNS SHALL BE GRANTED BY THE GOVERNING MUNICIPALITY.
- IF THE DESIGN PRESSURES / FRAME DIMENSIONS ON SITE EXCEEDS THE PRESSURES GIVEN IN THIS APPROVAL, PLEASE CONTACT OPTIMUM WINDOWS FOR SPECIAL APPROVALS.

FL#47705

OPTIMUM STEEL WINDOWS AND DOORS

RTS-430i STAINLESS STEEL JUMBO FIXED WINDOW SYSTEM

(HVHZ IMPACT)



RTS-430i - JUMBO FIXED WINDOW SYSTEM

DESIGN PRESSURE RATING		
FRAME SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
96 5/8" X 157 5/8"	+/- 75 PSF	LARGE & SMALL MISSILE IMPACT

GENERAL NOTES

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ) PER:
 - TAS 201 / 202 / 203
- GLASS CAPACITIES MENTIONED IN THE PRESSURE CHARTS IN THIS CERTIFICATION ARE BASED ON ASTM E1300-16 (3 SEC. GUSTS).
- DESIGN PRESSURES MENTIONED IN THIS CERTIFICATION ARE ALLOWABLE PRESSURES (ASD) BASED ON TESTED PRESSURE DIVIDED BY A FACTOR OF SAFETY OF 1.5.
- THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH THE STANDARDS IN NOTE 1 OF THE GENERAL NOTES AND IS LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE IMPACT RESISTANT SHUTTERS.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- 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.
- 1BY OR 2BY WOOD BUCK & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE ANY SITE SPECIFIC INSTALLATION INFORMATION. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A QUALIFIED ENGINEER LICENSED IN THE STATE OF FLORIDA SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR INSULATING ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- FASTENERS DESCRIBED IN THIS CERTIFICATION ARE PERMITTED TO BE SUBSTITUTED PROVIDED THE STRENGTH OF THE ALTERNATIVE ANCHOR IS EQUAL TO OR GREATER THAN THE ORIGINALLY SPECIFIED ANCHOR. FINAL APPROVAL OF SUBSTITUTED ANCHORS SHALL BE BY OTHERS.
- FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES..
- ENGINEER'S SEAL AFFIXED HERE VALIDATES THE STRUCTURAL DESIGN AS SHOWN ONLY. THE USE OF THIS SPECIFICATION BY THE CONTRACTOR, ET AL., INDEMNIFIES AND SAVES HARMLESS THIS ENGINEER FROM ALL COSTS AND DAMAGES, INCLUDING LEGAL FEES AND APPELLATE FEES, RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES, AND FROM DEVIATIONS OF THIS PLAN.
- THIS PRODUCT IS APPROVED FOR FORCED ENTRY RESISTANCE AS PER ASTM F588-07.

- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALTERATIONS, ADDITIONS, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
- SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
- PRODUCT SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER SYSTEM CONTAINING THE FOLLOWING:

OPTIMUM STEEL WINDOWS AND DOORS
28 CANAL ST. ELLENVILLE, NY 12428
APPROVED BY FLORIDA BUILDING COMMISSION
FLORIDA PRODUCT APPROVAL NUMBER FL# 47705

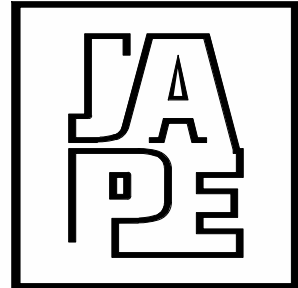
THIS SYSTEM IS APPROVED FOR INSTALLATION WHERE WATER INFILTRATION RESISTANCE IS REQUIRED

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT (LEVEL D & E)



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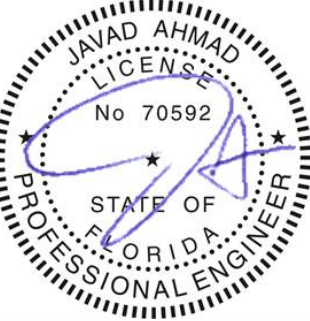
SERIES :	"RTS-430i"
MODEL :	STAINLESS STEEL JUMBO FIXED WINDOW SYSTEM



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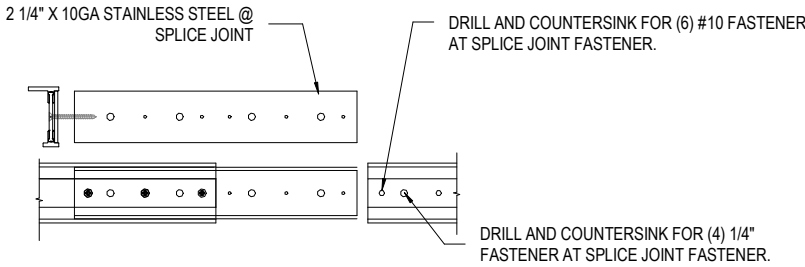
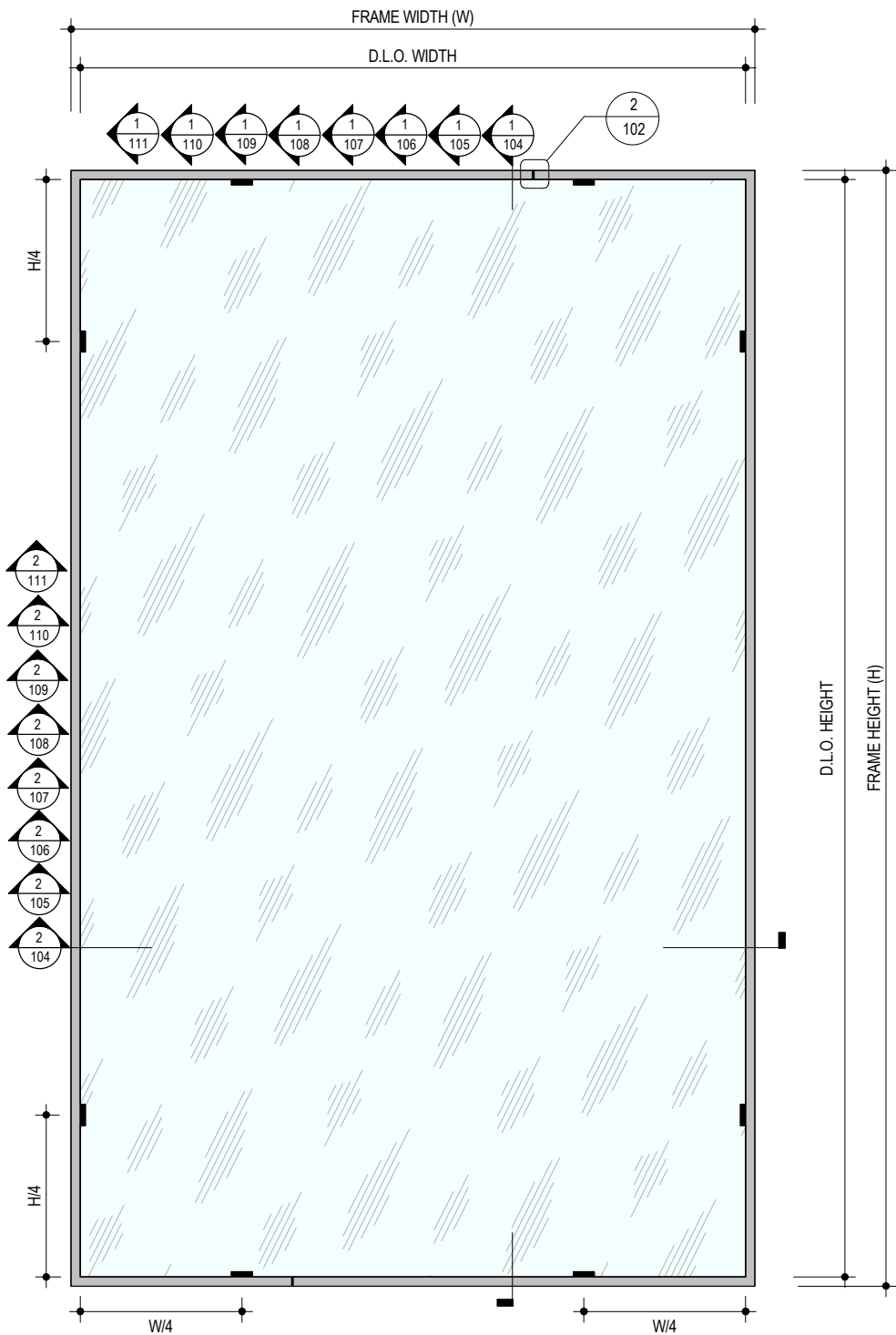
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PROJECT NUMBER
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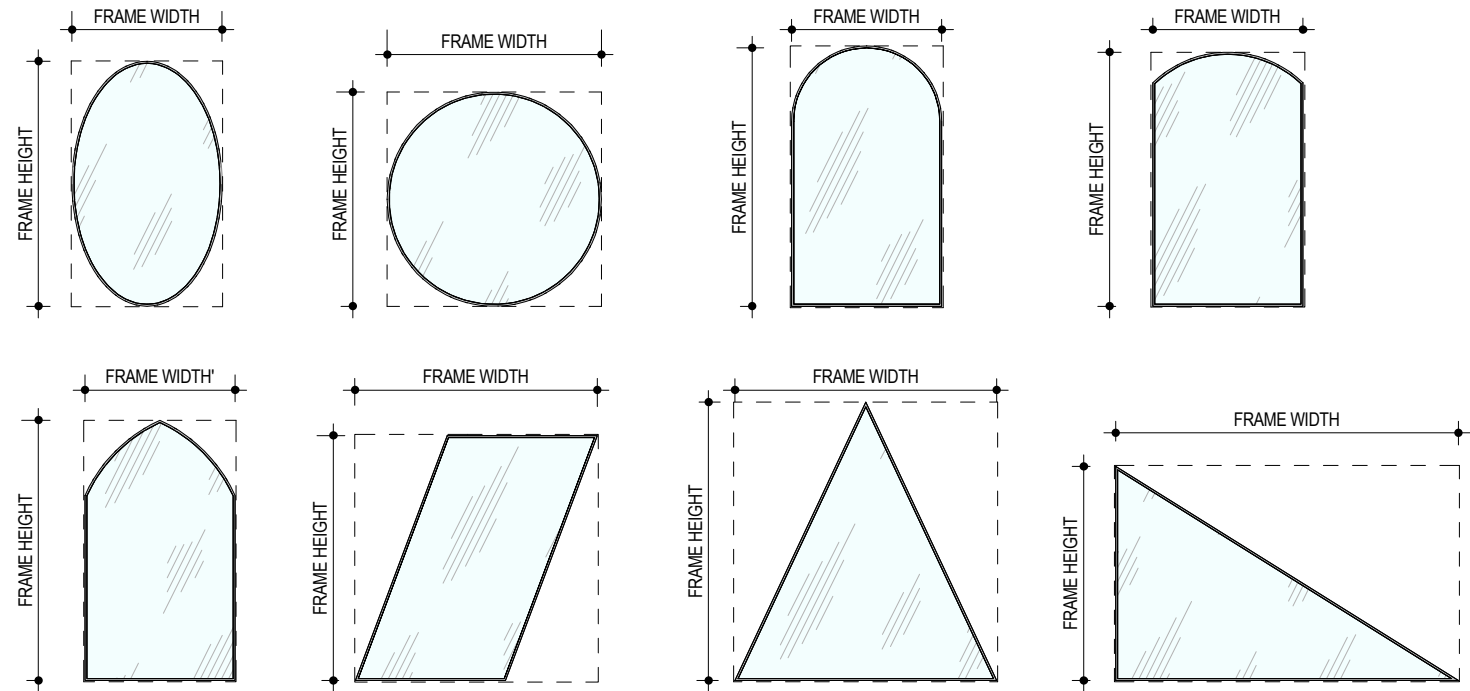
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TYPICAL ELEVATION & FRAME SPLICE DETAIL

FL#47705



2 TYPICAL FRAME SPLICE DETAIL
NOT TO SCALE



3 ALTERNATIVE TYPICAL ELEVATIONS
NOT TO SCALE

NOTE

- FOR TRIBUTARY AREA OF THE ALTERNATE SHAPES, INSCRIBE THE ALTERNATE SHAPES INSIDE A RECTANGLE. THE TRIBUTARY AREA SHOULD NOT EXCEED THE TESTED AREA FOR THIS SYSTEM.
- FOR RATIONAL ANALYSIS OF FRAME DIMENSIONS EXCEEDING THE MAXIMUM FRAME DIMENSIONS MENTIONED HEREIN, THE DESIGN AREA MUST NOT EXCEED THE MAXIMUM TESTED AREA (=MAX. FRAME WIDTH' X 'MAX. FRAME HEIGHT')
- EXAMPLE -TESTED DIMENSIONS:
WIDTH (B) = 96-5/8"
HEIGHT(H) = 157-5/8"
TESTED AREA (A) = 15230 IN²
PROPOSED WIDTH (B') = 120".
NOW, SUPPOSE
IN THAT CASE, THE MAXIMUM HEIGHT (H') CAN BE CALCULATED AS:
MAX. HEIGHT(H') = 15230/120=126.9"

D.L.O. CALCULATION

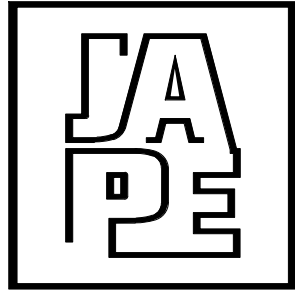
FIXED WINDOW - D.L.O. HEIGHT = FRAME HEIGHT - 2-5/8"
D.L.O. WIDTH = FRAME WIDTH - 2-9/16"

SYSTEM	MAX. D.L.O. WIDTH	MAX. D.L.O. HEIGHT	MAX. FRAME WIDTH	MAX. FRAME HEIGHT
FIXED WINDOW	94"	155 1/16"	96 5/8"	157 5/8"



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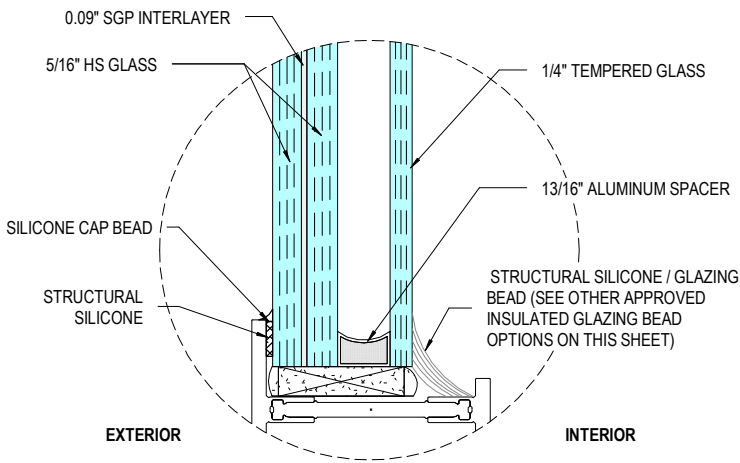
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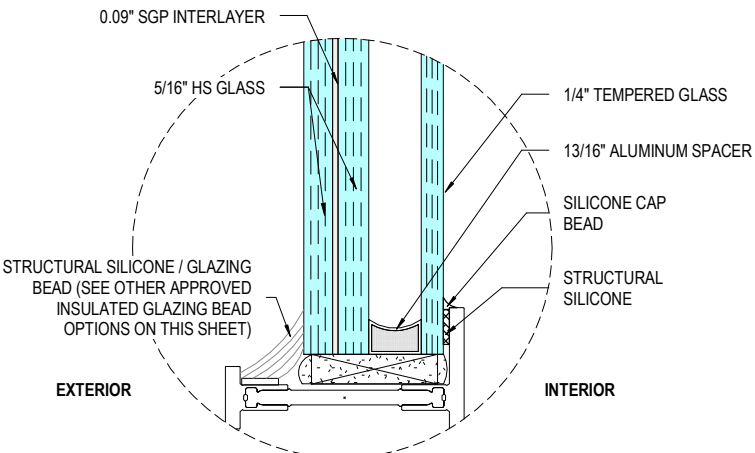
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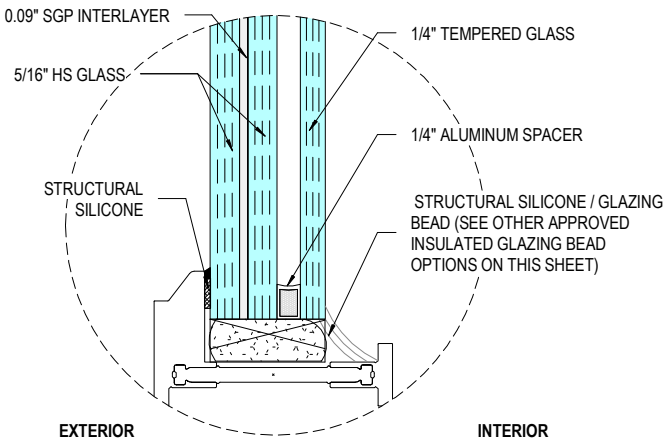
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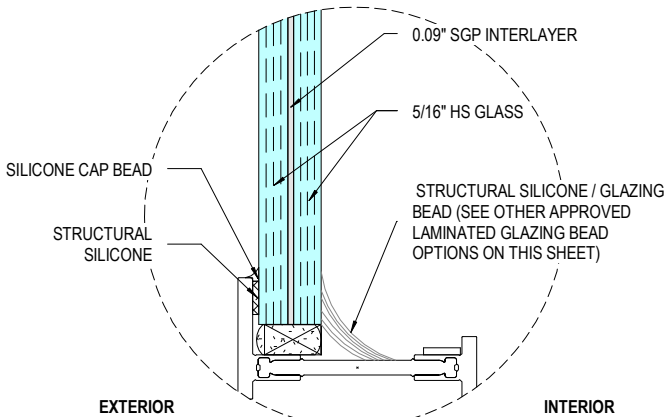
GL 1 - (1-3/4") INSULATED GLASS UNIT



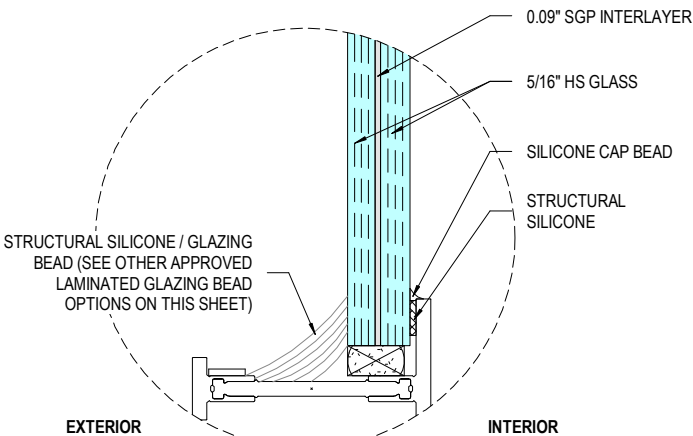
GL 2 - (1-3/4") INSULATED GLASS UNIT



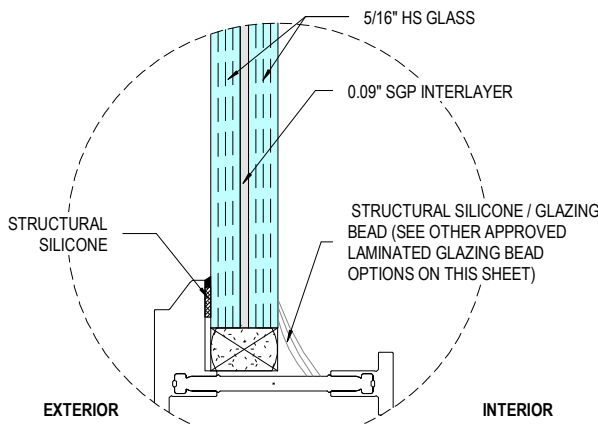
GL 3 - (1-3/16") INSULATED GLASS UNIT



GL 4 - (11/16") LAMINATED GLASS UNIT



GL 5 - (11/16") LAMINATED GLASS UNIT

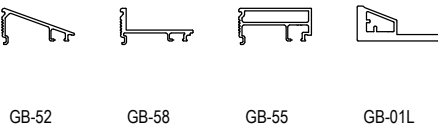


GL 6 - (11/16") LAMINATED GLASS UNIT

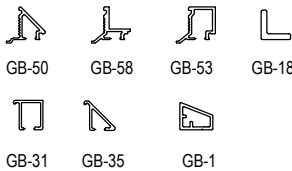
SIMULATED MUNTIN:



APPROVED MONOLITHIC LAMINATED GLAZING BEAD OPTIONS



APPROVED INSULATED GLAZING BEAD OPTIONS



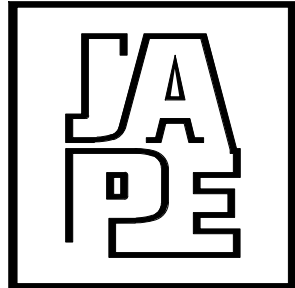
GLAZING NOTES:

1. CONFIRM THE GLASS SIZE AND REBATE SIZE TO ENSURE THAT THE GLASS WILL FIT.
2. REMOVE GLAZING BEADS AND CAREFULLY LABEL SIDE AND OPENING ON EACH GLAZING BEAD REMOVED. *GLAZING BEADS ARE CUT TO SIZE AND ARE NOT INTERCHANGEABLE AMONGST UNITS.
3. CLEAN GLAZING/GRID REBATE WITH ISOPROPYL ALCOHOL.
4. CAREFULLY APPLY GLAZING PRIMER ALONG GLAZING/GRID REBATE.
5. PLACE SETTING BLOCKS AS NECESSARY. CAREFULLY SCORE ANY SETTING BLOCKS THAT BYPASS GLAZING. VERIFY THAT SETTING BLOCK LOCATIONS CROSS BLOCK WHERE INDICATED. (REFER TO SETTING BLOCK LAYOUT FOR PLACEMENT.)
6. INSPECT AND CLEAN GLASS PRIOR TO PLACEMENT OF GLASS.
7. CAREFULLY INSTALL GLASS INTO GLAZING POCKET.
8. REINSTALL GLAZING BEAD ALONG THE INTERIOR. (REFER TO GLAZING DETAILS PROVIDED IN SHOP DRAWING SECTION DETAILS.) *GLAZING BEADS ARE CUT TO SIZE AND ARE NOT INTERCHANGEABLE AMONGST UNITS.
9. IT IS STRONGLY RECOMMENDED THAT THE SILICONE EXTERIOR SEALANT APPLIED IMMEDIATELY AROUND THE PERIMETER AND GLASS-TO-METAL LOCATIONS, INCLUDING CAP-BEADING THE SIMULATED DIVIDED LITES (SDL'S) TO PREVENT THE GLASS FROM SHIFTING AFTER IT'S INSTALLED AND CROSSED BLOCK.



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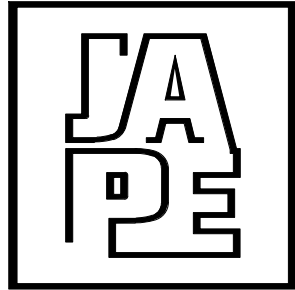
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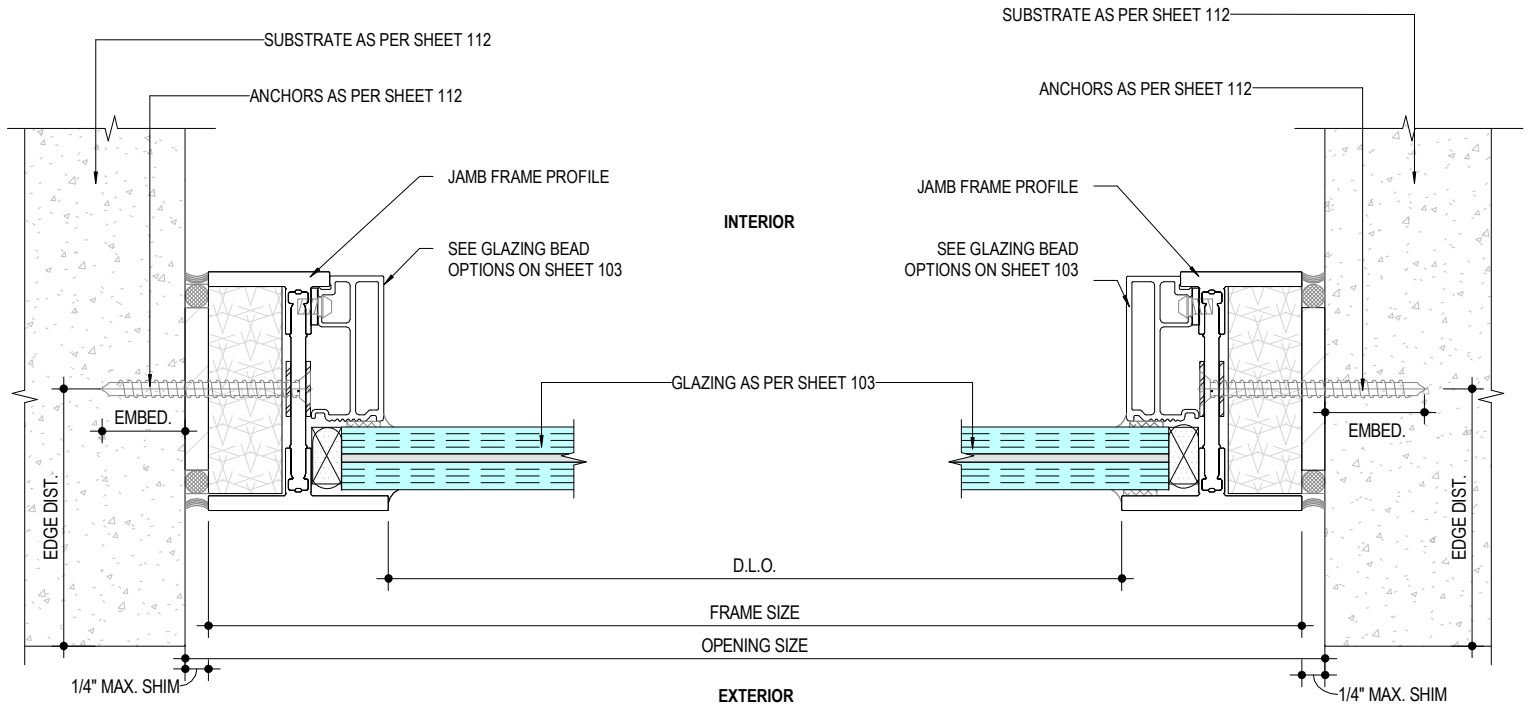
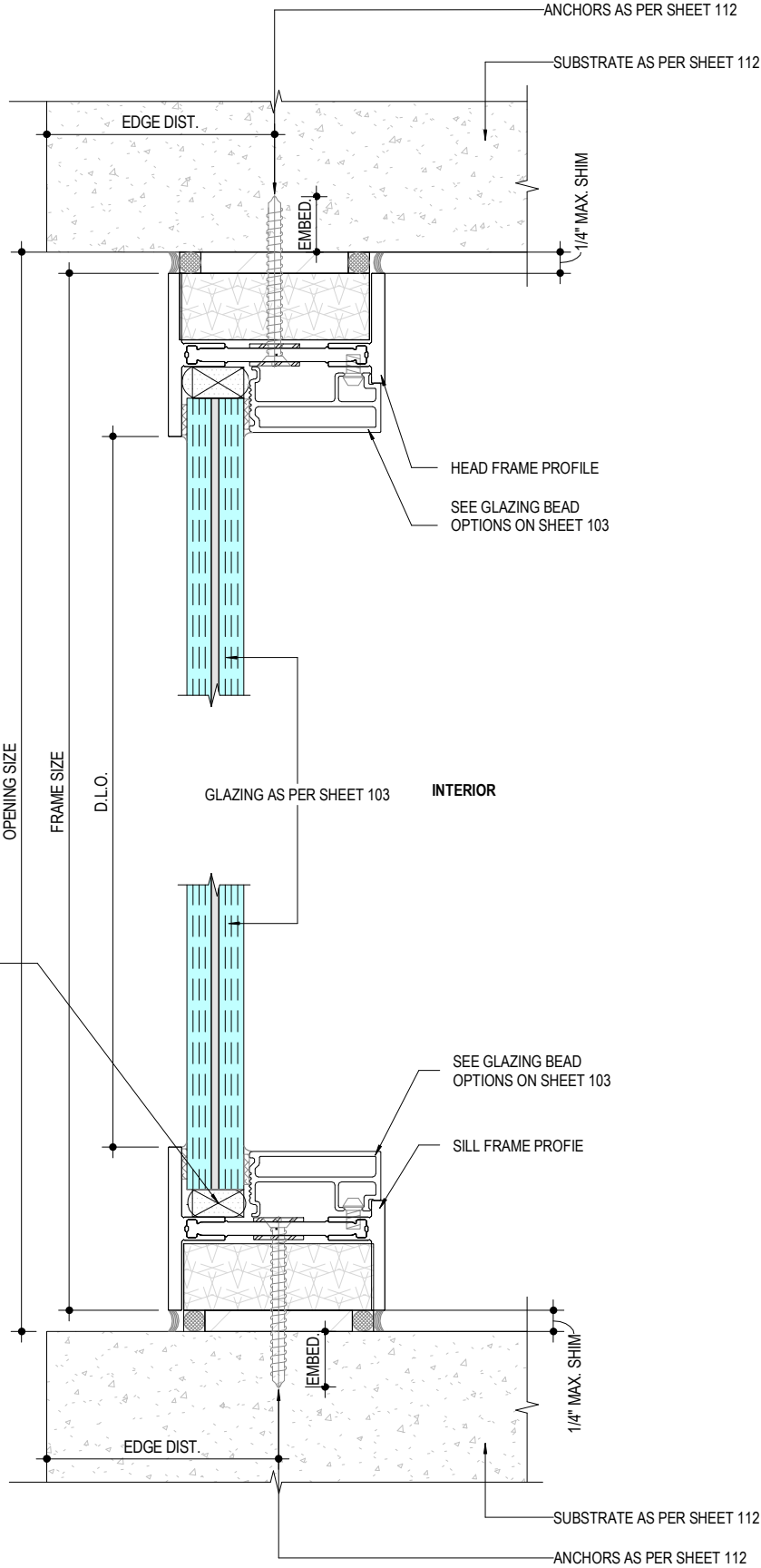
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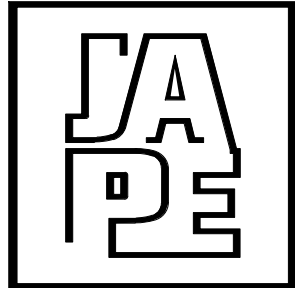
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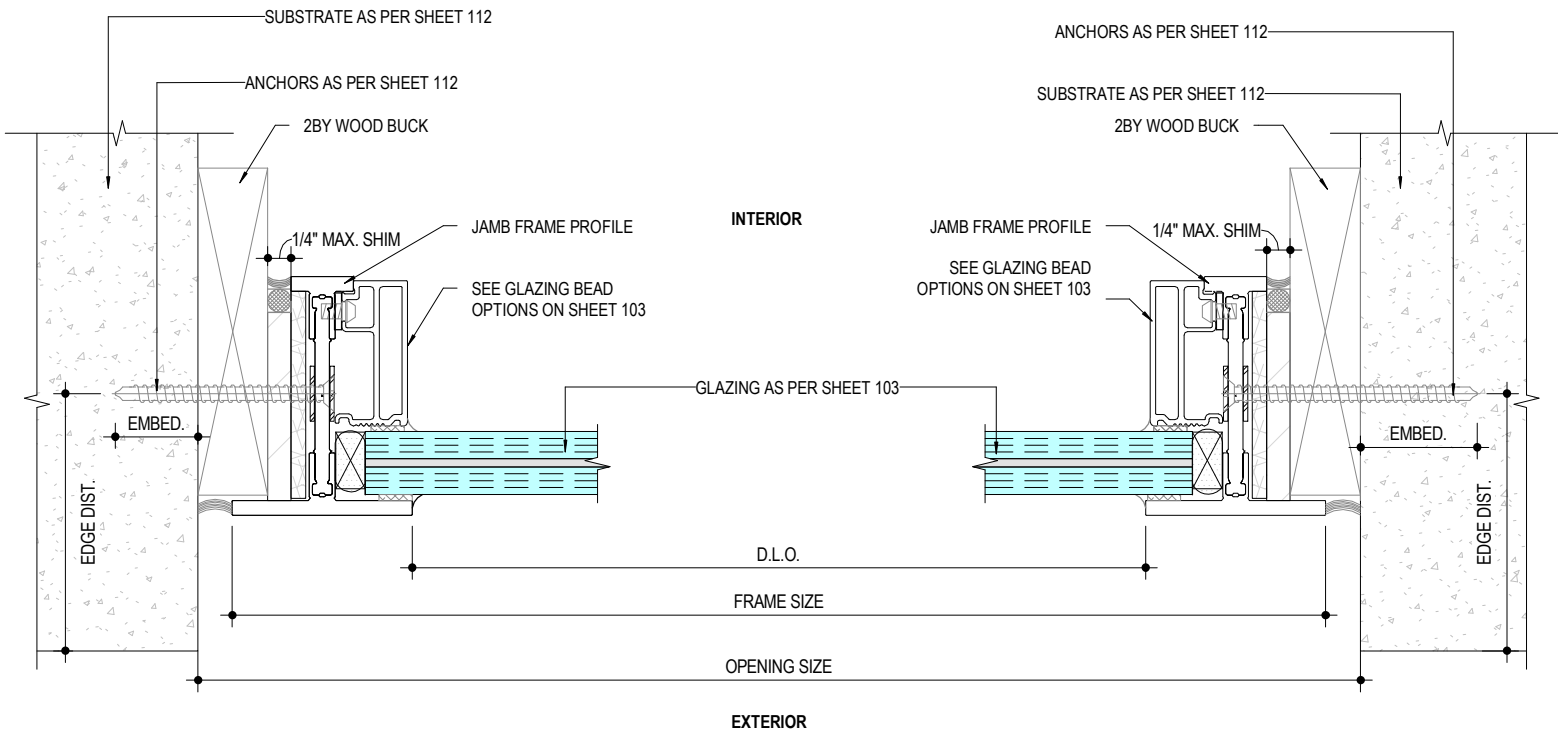
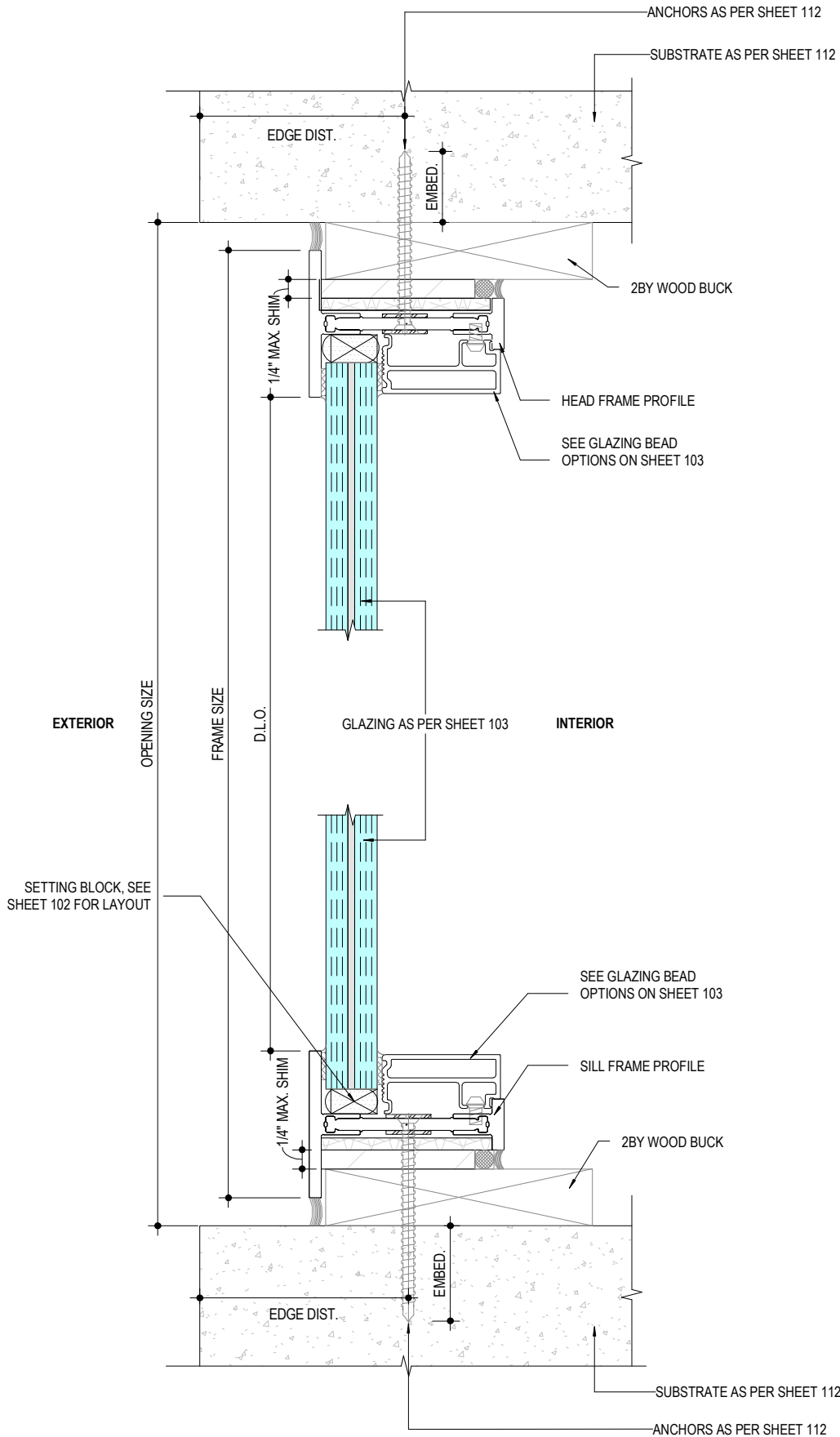
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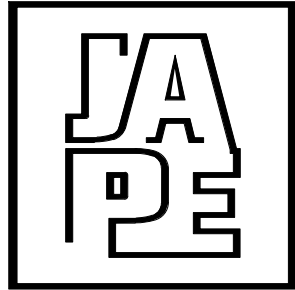
1
106
VERTICAL SECTION - EXTERIOR UNEQUAL LEG
NOT TO SCALE

2
106
HORIZONTAL SECTION - EXTERIOR UNEQUAL LEG
NOT TO SCALE



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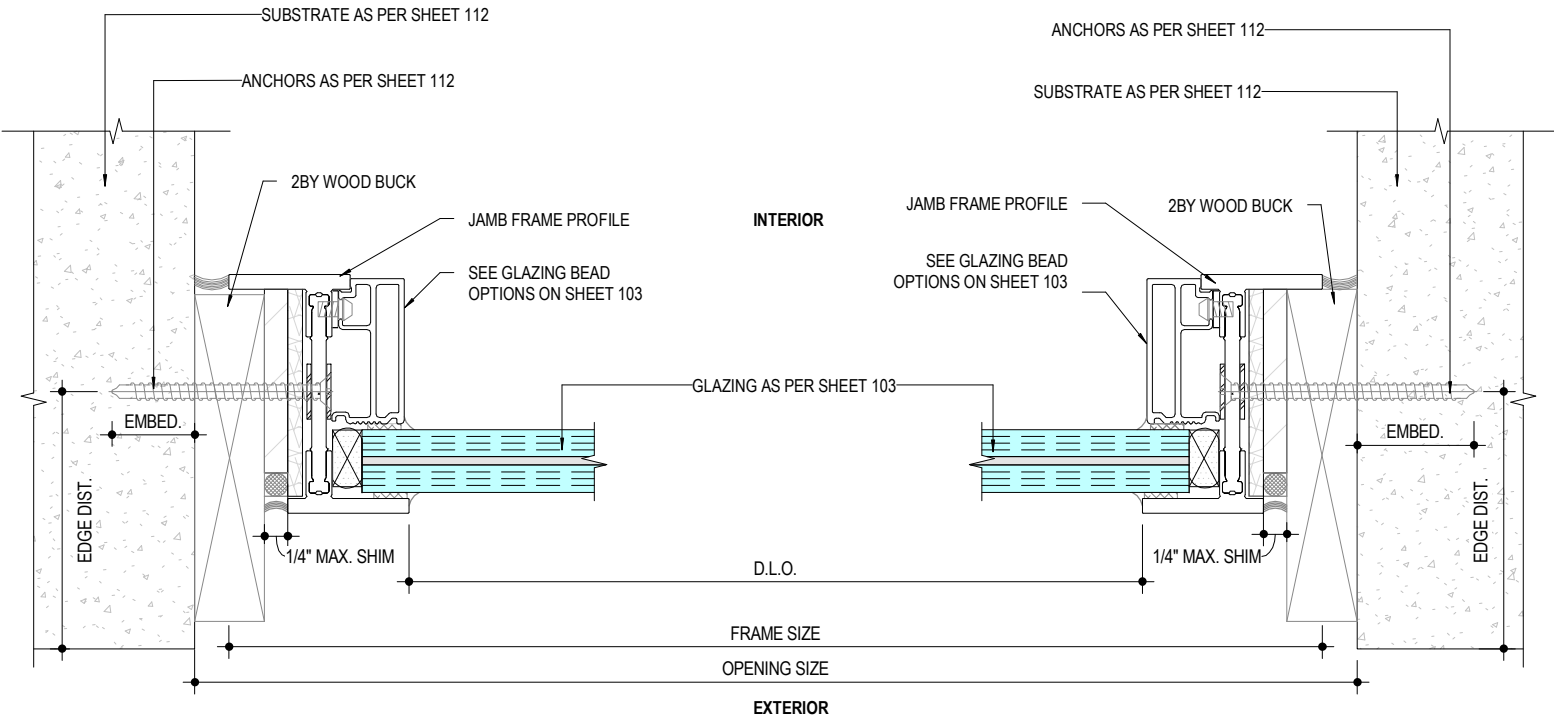
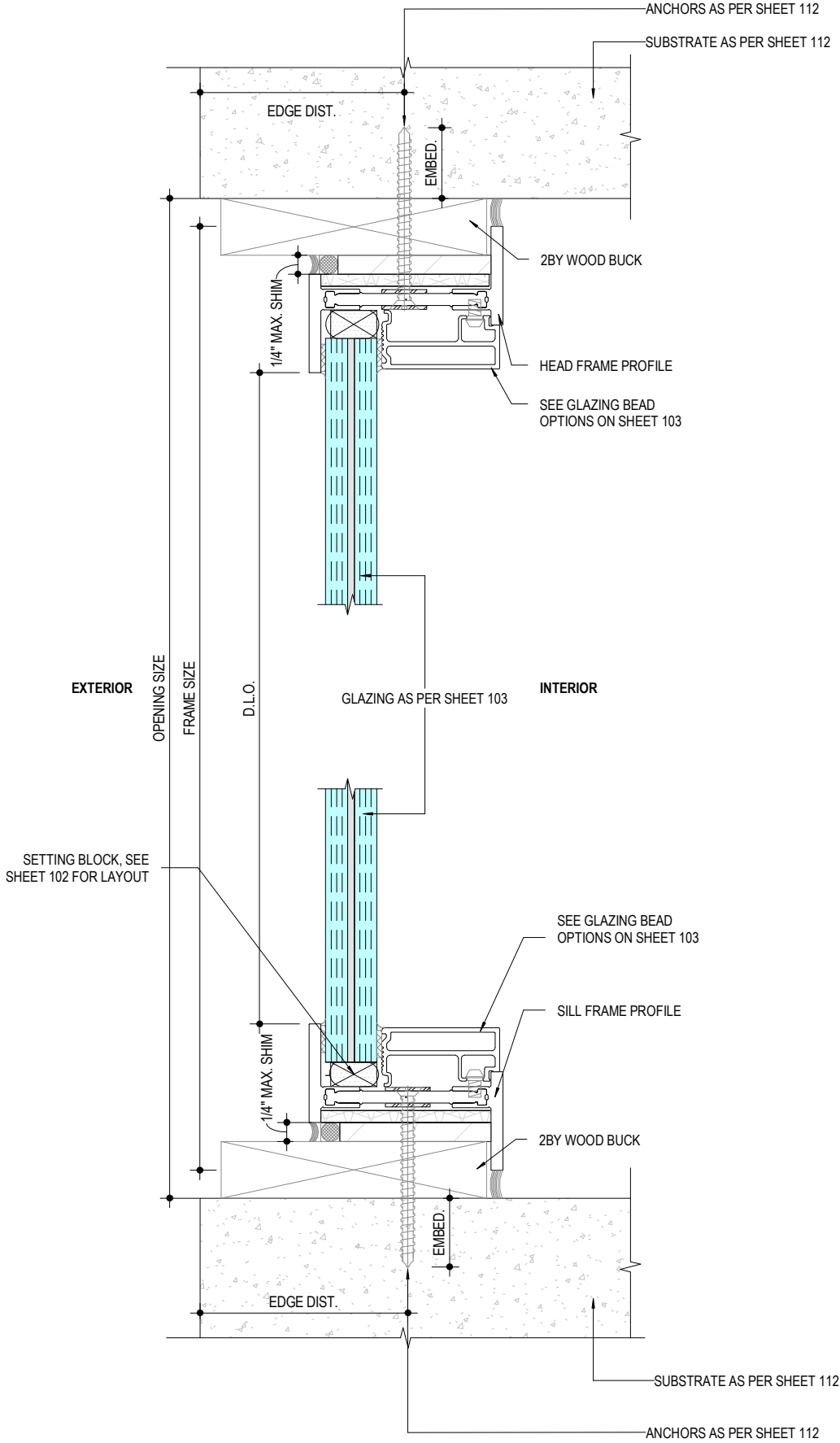
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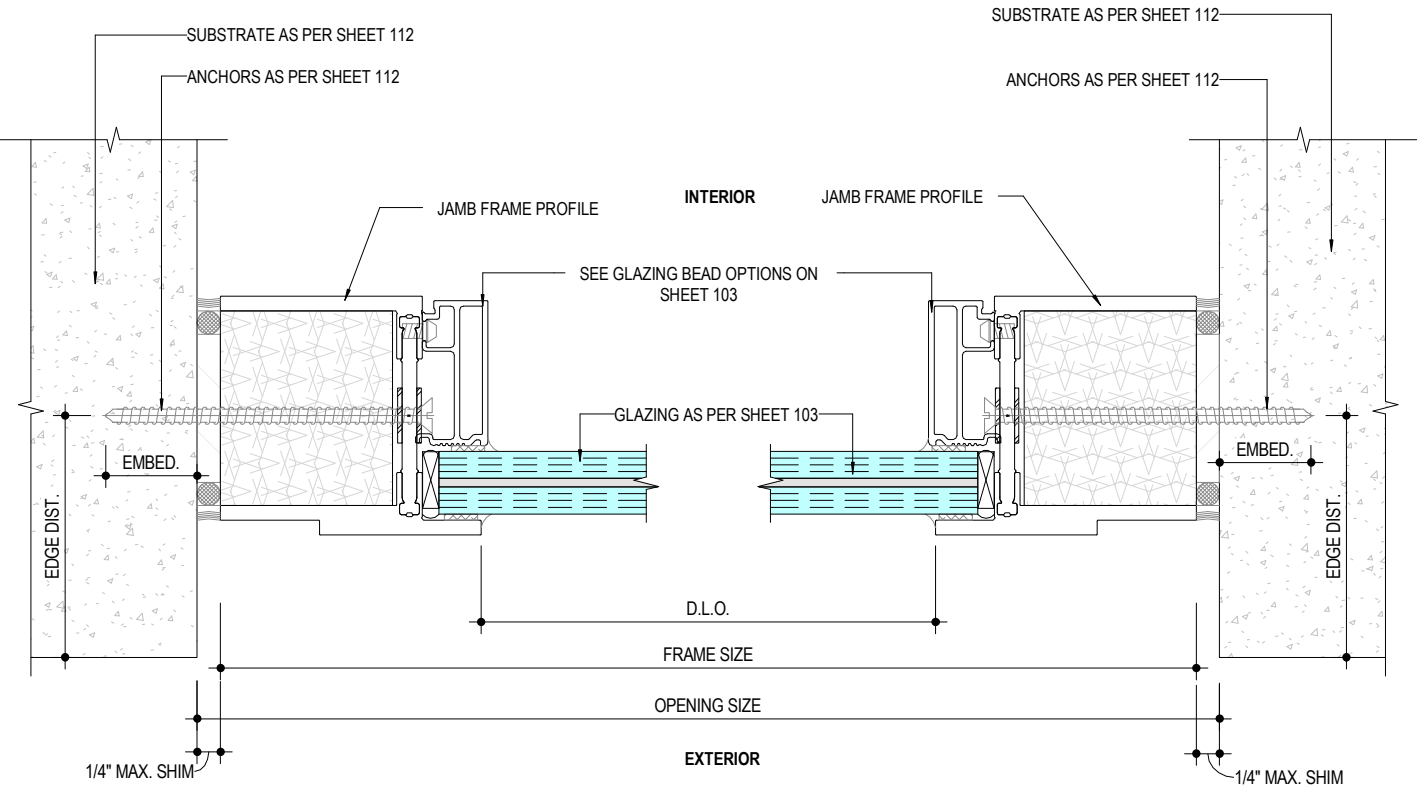
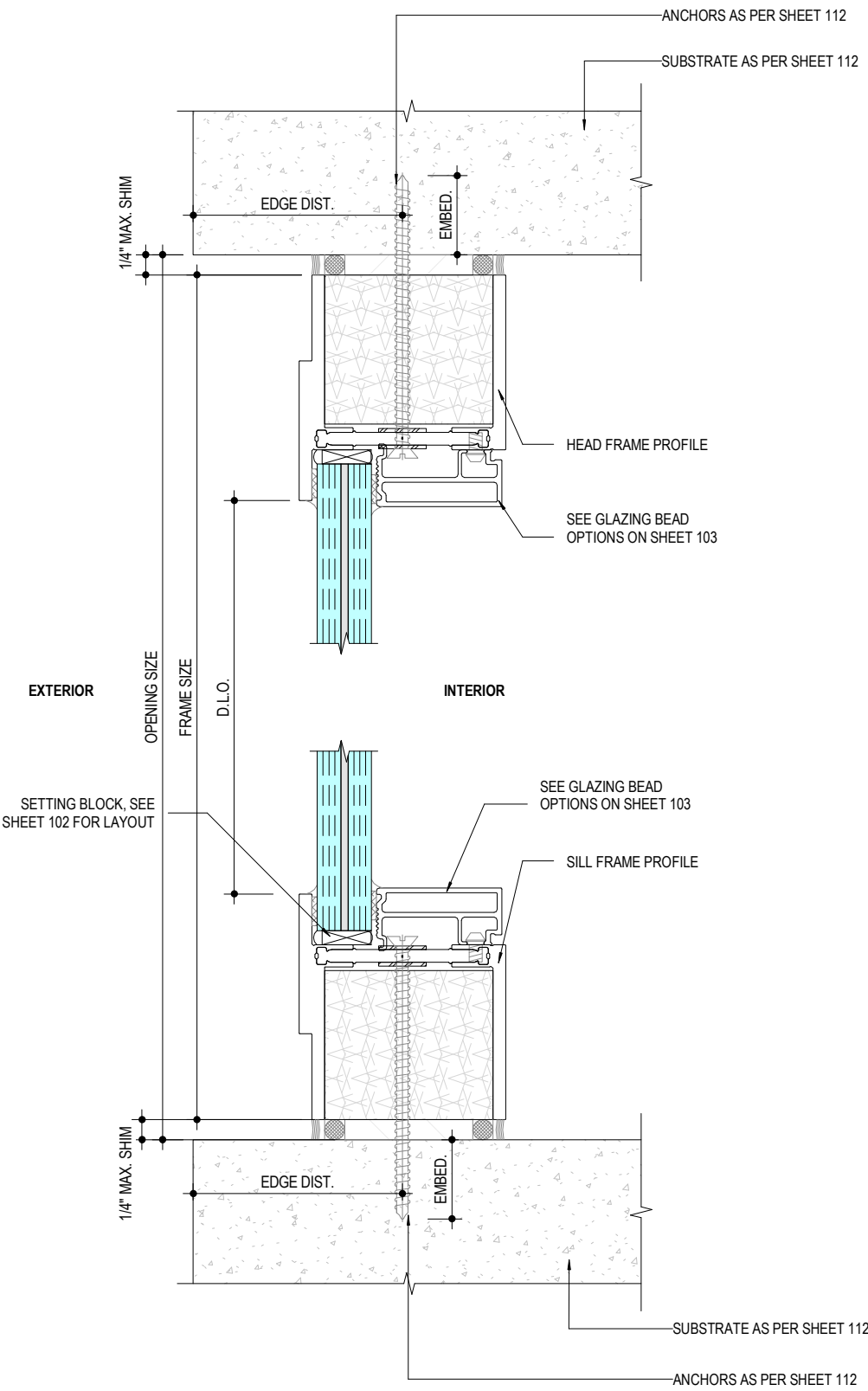
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1 107 VERTICAL SECTION - INTERIOR UNEQUAL LEG
N.T.S.

2 107 HORIZONTAL SECTION - INTERIOR UNEQUAL LEG
N.T.S.



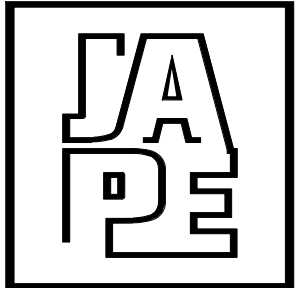
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108 VERTICAL SECTION - LONG EQUAL LEG SIGHTLINE FRAME
N.T.S.

2
108 HORIZONTAL SECTION - LONG EQUAL LEG SIGHTLINE FRAME
N.T.S.



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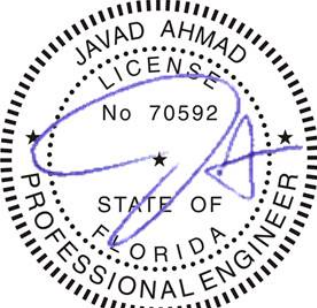
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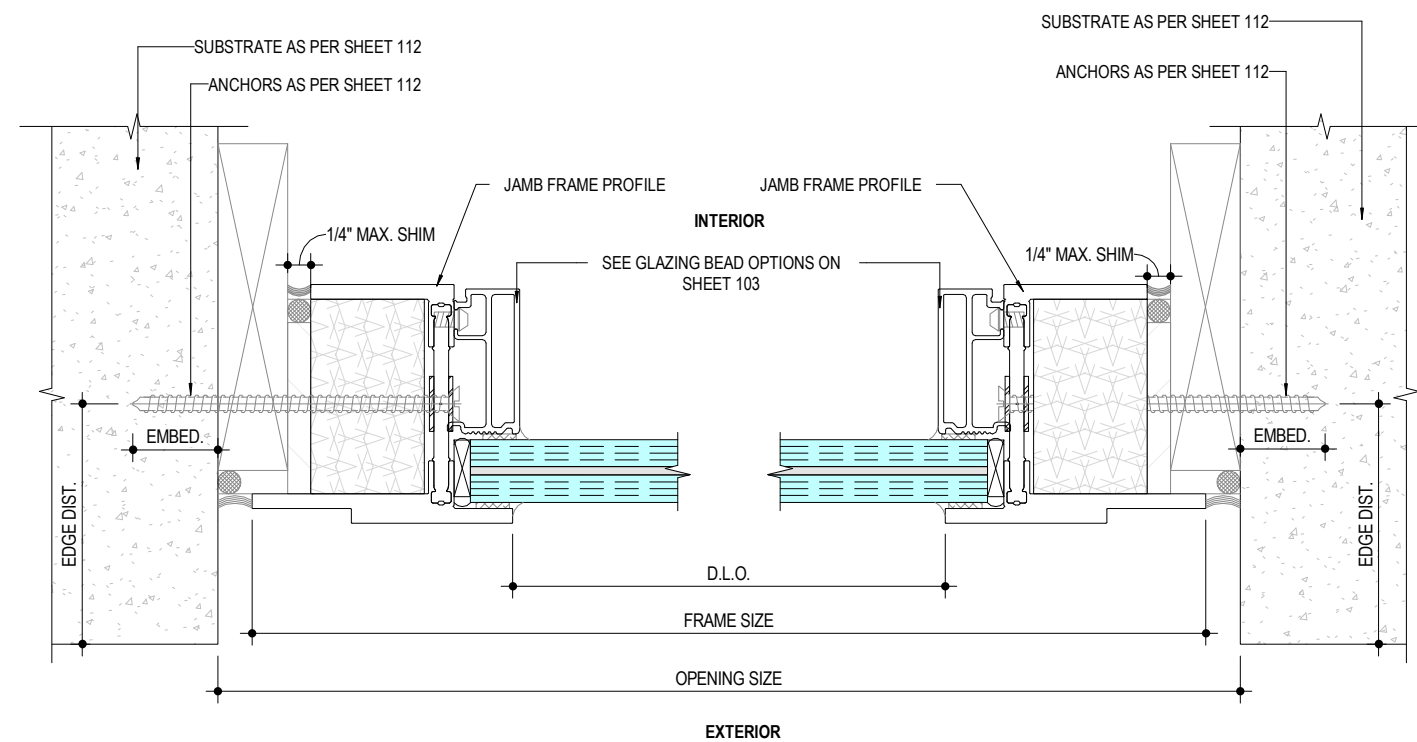
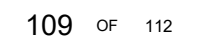
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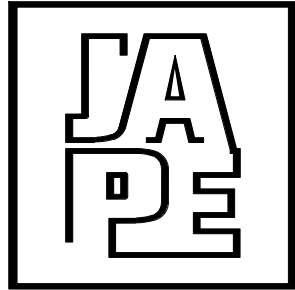


2 HORIZONTAL SECTION - LONG UNEQUAL LEG SIGHTLINE FRAME
109 N.T.S.



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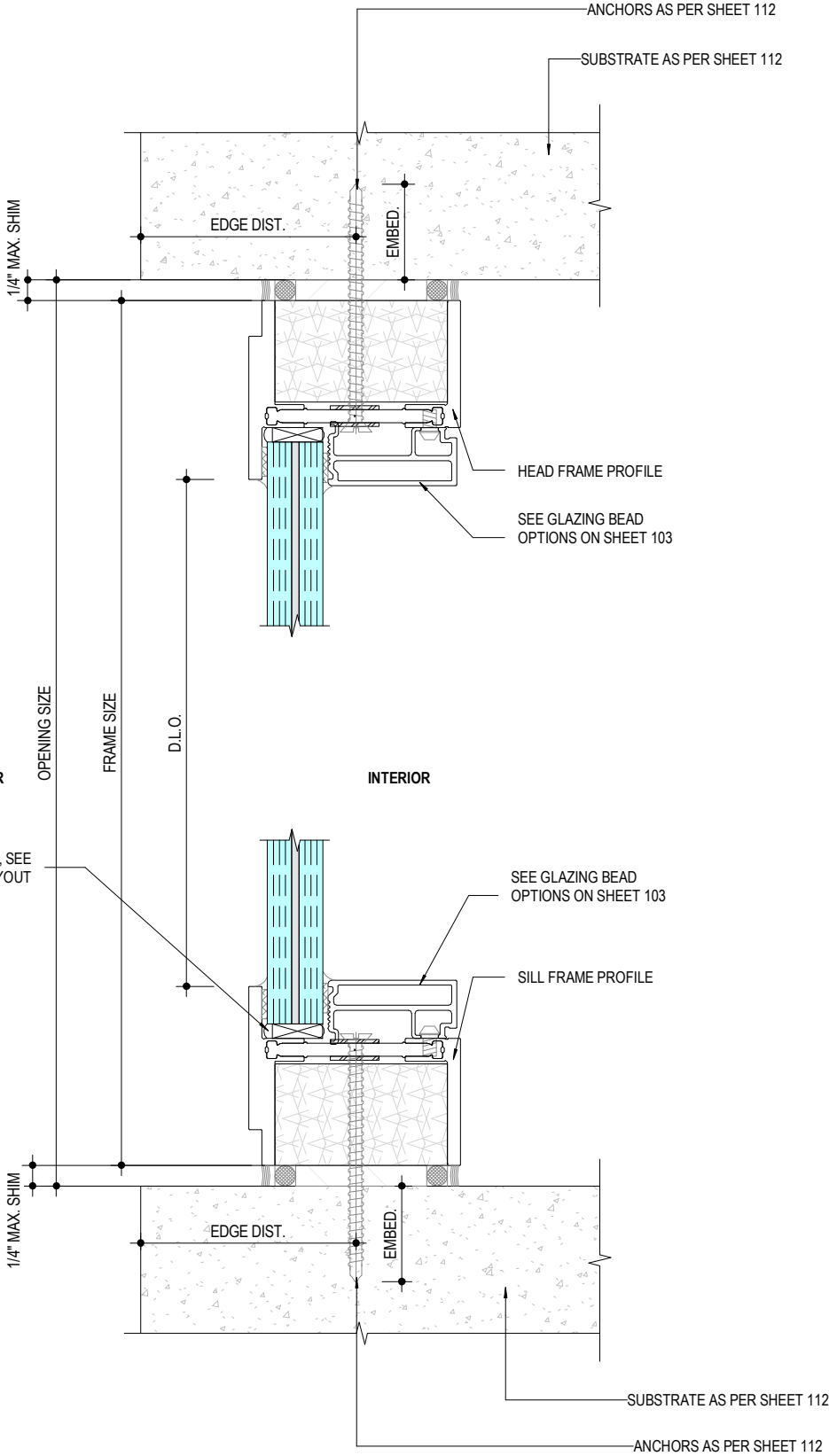
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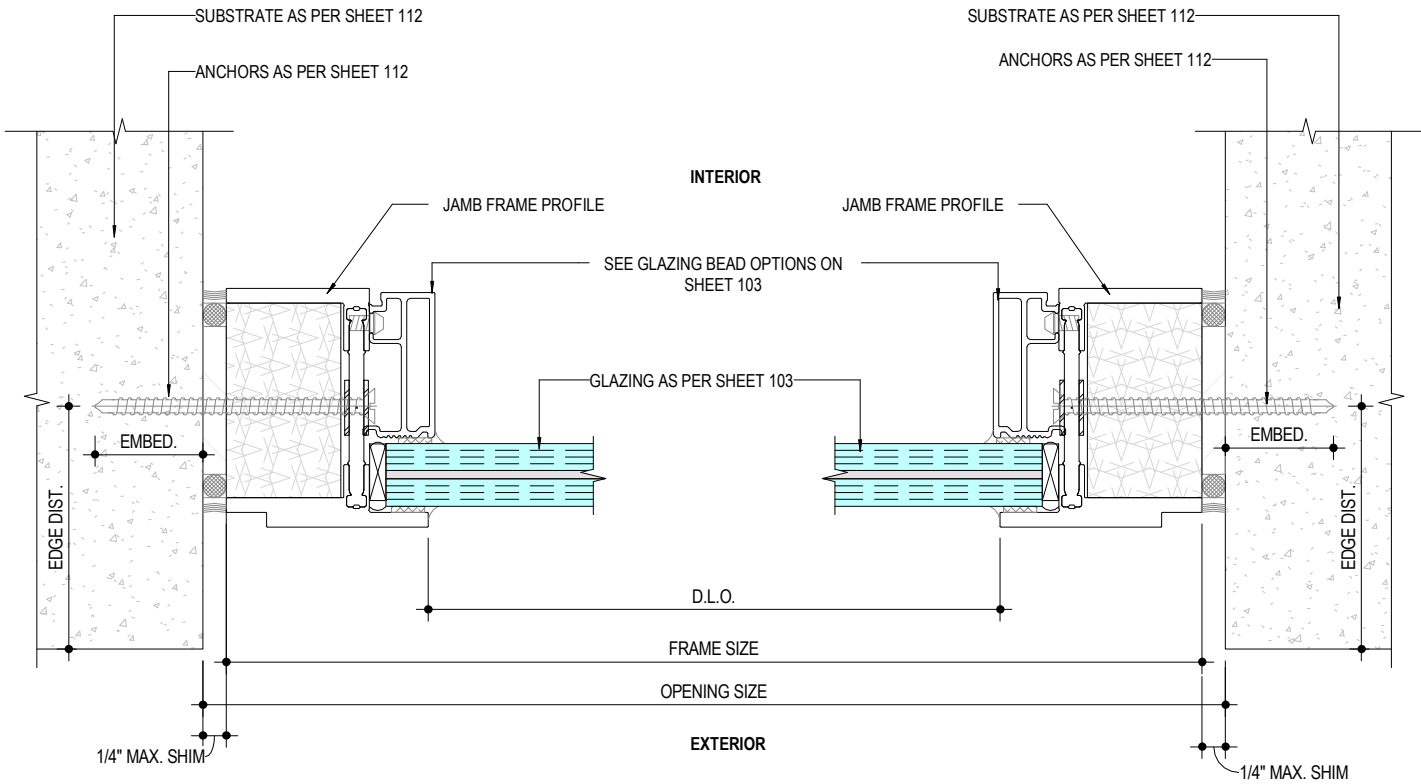
PROJECT:
JUMBO FIXED WINDOWS SYSTEM

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1
110 VERTICAL SECTION - SHORT EQUAL LEG SIGHTLINE FRAME
N.T.S.



2
110 HORIZONTAL SECTION - SHORT EQUAL LEG SIGHTLINE FRAME
N.T.S.

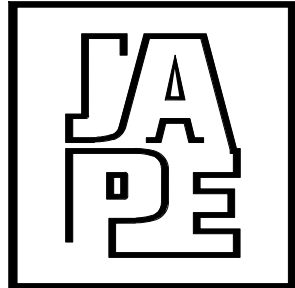
SECTIONAL DETAILS

FL#47705



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SERIES : "RTS-430i"
MODEL : STAINLESS STEEL JUMBO
FIXED WINDOW SYSTEM



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7875 NW 12 Street, Suite 102
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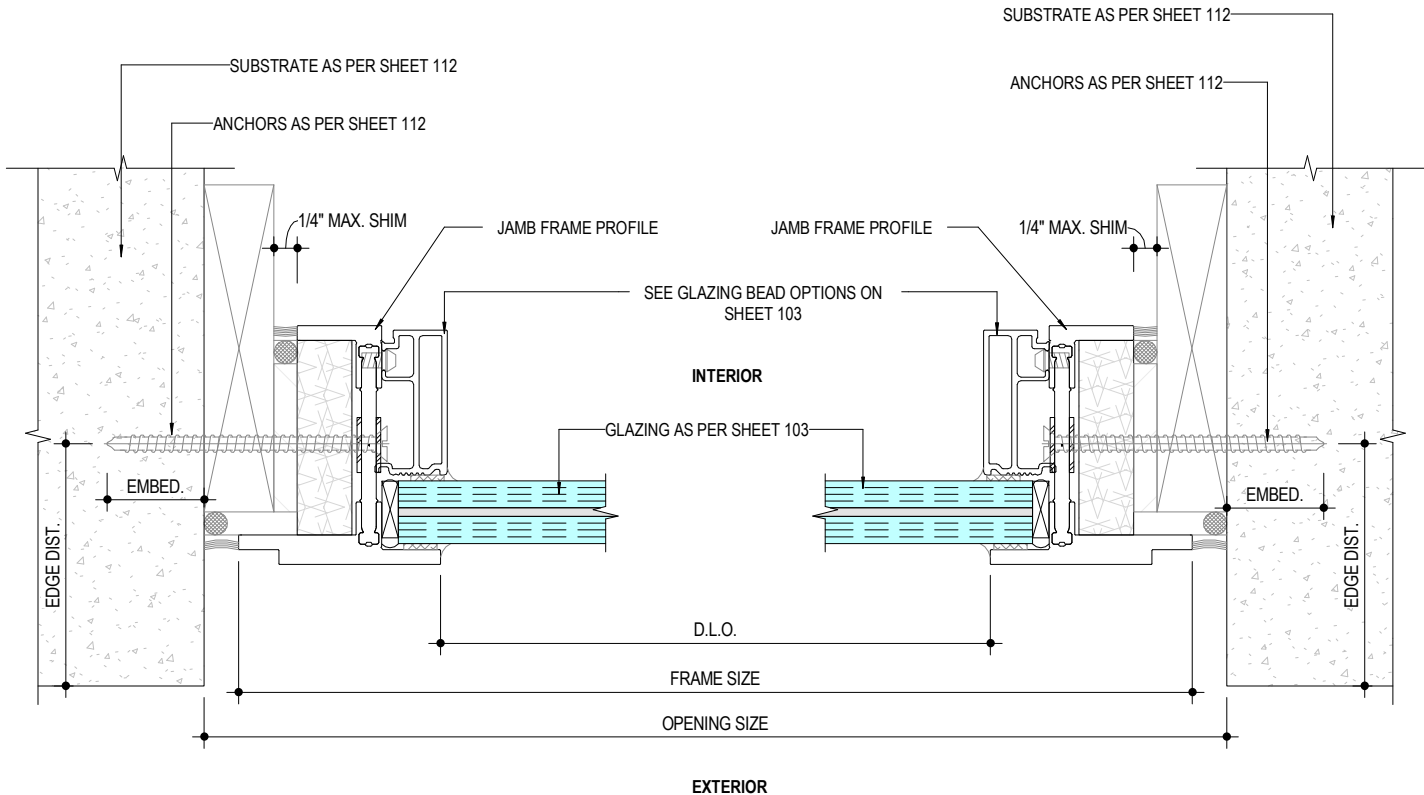
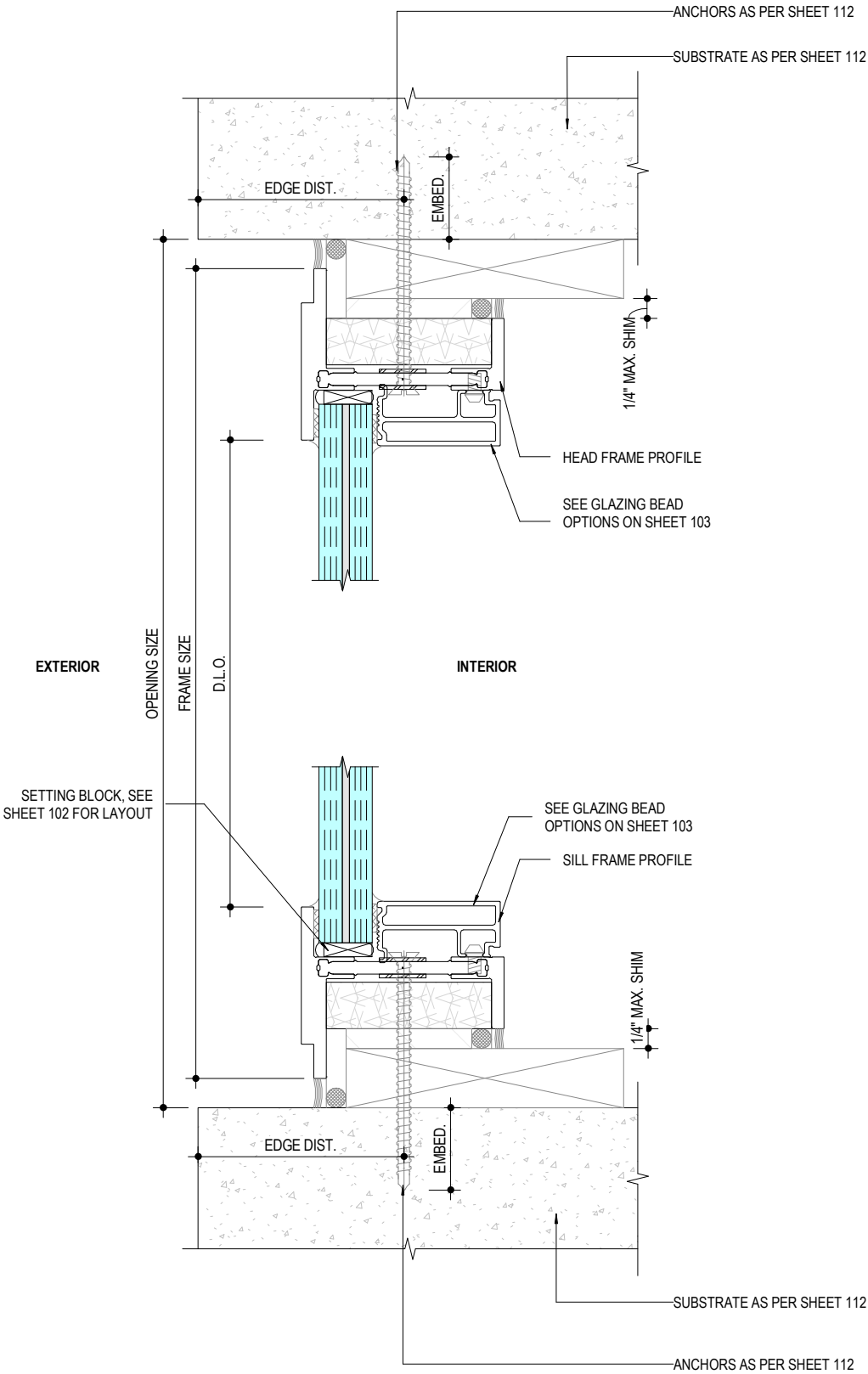
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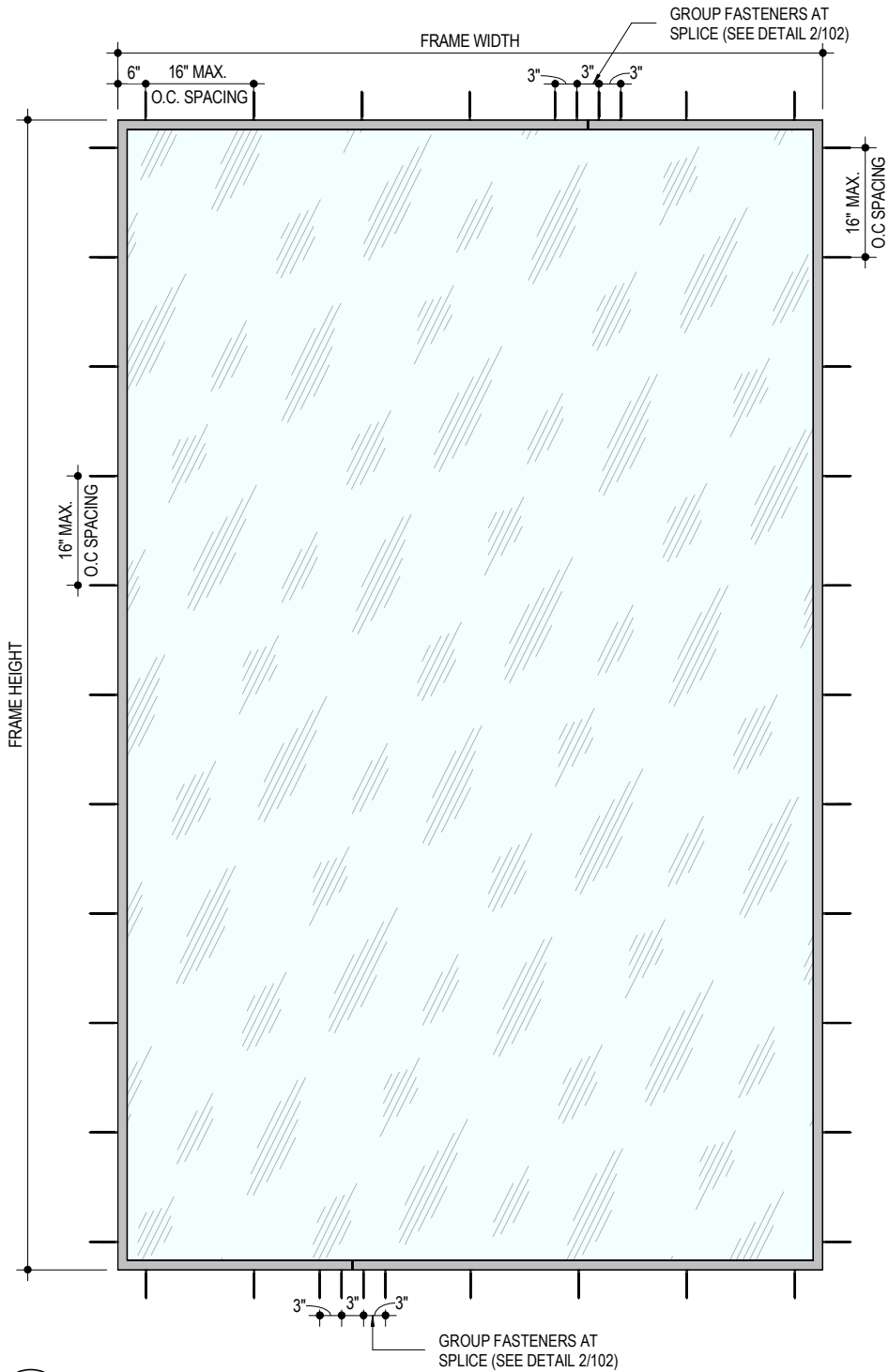


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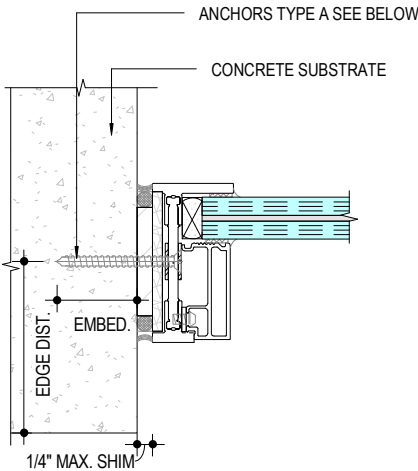
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ANCHORAGE LAYOUT

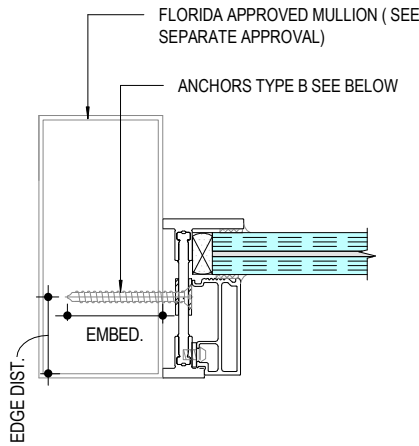
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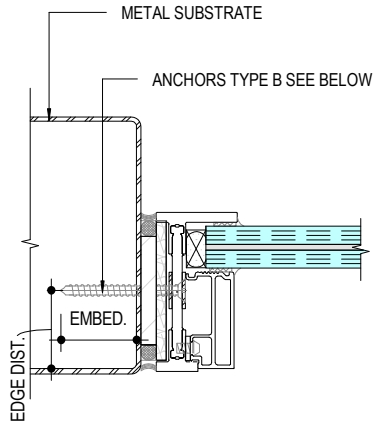
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112 ANCHORAGE LAYOUT
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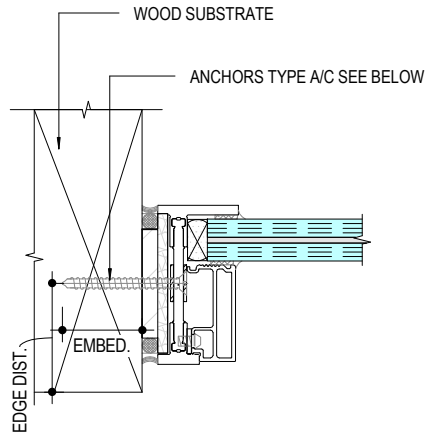
2
112 ANCHORAGE INTO CONCRETE STRUCTURE
N.T.S.



4
112 ANCHORAGE INTO ALUMINUM STRUCTURE
N.T.S.



3
112 ANCHORAGE INTO METAL STRUCTURE
N.T.S.



5
112 ANCHORAGE INTO WOOD STRUCTURE
N.T.S.

TYPICAL ANCHOR TYPES:

TYPE A -1/4" DEWALT ULTRACON+ (Fu = 177,000 PSI, Fy = 155,000 PSI)

- INTO 2BY WOOD WITH 1-1/2" MIN PENETRATION, AND 1-3/4" MIN EDGE DISTANCE AND 16" O.C. SPACING
- INTO CONCRETE WITH 1-3/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AND 24" O.C. SPACING
- INTO GROUT FILLED MASONRY WITH 1-3/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE AND 16" O.C. SPACING
- DIRECTLY INTO HOLLOW MASONRY WITH 1-1/4" EMBEDMENT, 2-1/2" MIN EDGE DISTANCE, AND 16" O.C. SPACING

TYPE B - 1/4-20 SS SCREWS (GRADE 5 MIN)

- INTO 1/8" MIN. THK. ALUMINUM / STEEL WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AND 16" O.C. SPACING
- INTO MIN. 1/8" THK. APPROVED MULLIONS WITH (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS, AND 3/4" MIN EDGE DISTANCE AND 16" O.C. SPACING

TYPE C - #14X3-1/2" WOOD SCREWS

- INTO WOOD WITH 1-1/2" EMBEDMENT, 1-1/8" MIN EDGE DISTANCE AND 16" O.C. SPACING

ANCHOR / SUBSTRATE NOTES:

- WOOD AT HEAD OR JAMBS IS SOUTHERN YELLOW PINE #2 (SG=0.55 MIN.)
- CONCRETE AT HEAD OR JAMBS f_c = 3000 PSI
- C-90 HOLLOW/GROUT FILLED MASONRY UNITS AT JAMBS f_m = 2000 PSI
- STEEL (1/8" THK., A36 MIN) AT HEAD OR JAMBS
- ALUMINUM (1/8" THK., 6063-T6 MIN) AT HEAD OR JAMBS
- STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED

NOTE:

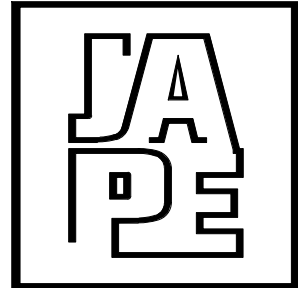
THE WOOD BUCKS, CONCRETE AND METAL STRUCTURE SHOWN ON THIS SHEET SHALL BE DESIGNED BY OTHERS AND ARE NOT PART OF THIS APPROVAL. THEY MUST BE CAPABLE OF WITHSTANDING THE LOADS IMPOSED BY THE GLAZING SYSTEM AND TRANSFERRING THEM TO THE BUILDING STRUCTURE.



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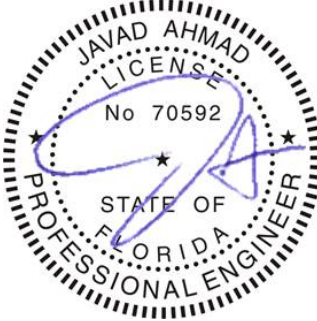
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