ATRIUM COMPANIES, INC.

311/312/378 SLIDING GLASS DOOR (NON-IMPACT)

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHORS ARE REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (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. FOR NAIL FIN: WOOD BUCK: USE #8 WOOD SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6. FOR NAIL FIN: STEEL STUD: USE #8 TEK SCREWS THROUGH THE FIN OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
7. FOR THRU FRAME: WOOD BUCK: USE #10 WOOD SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
8. FOR THRU FRAME: CONCRETE/MASONRY: FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCONS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
9. FOR THRU FRAME: STEEL STUD: USE #10 TEK SCREWS THROUGH THE FRAME OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
10. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
11. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
12. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
13. 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.
14. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
    A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
    B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
    C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
    D. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM WALL THICKNESS OF 33 MILS. (20 GUAGE)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2006 IBC/IRC AND TEXAS REVISIONS AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
    - AAMA/WDMA/CSA 101/I.S.2/A440-05
    - AAMA/WDMA/CSA 101/I.S.2/A440-08
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, STEEL STUD, AND 2X 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.
3. 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.
4. 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.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. DOOR FRAME MATERIAL: WHITE OR BEIGE VINYL
7. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 5 FOR GLAZING DETAIL.

TABLE OF CONTENTS

SHEET	REVISION	SHEET DESCRIPTION
1	A	INSTALLATION & GENERAL NOTES
2	A	ELEVATIONS
3	A	ANCHOR LAYOUTS
4	A	VERTICAL SECTIONS
5	A	HORIZONTAL SECTIONS & GLAZING DETAL

DESIGN PRESSURE RATING

SIZE	DESIGN PRESSURE	MISSILE IMPACT RATING
71.5625 X 79.5"	+35.0 / -35.0 PSF	NOT RATED
95.625" X 79.5"	+35.0 / -35.0 PSF	
75.75" X 95.5"	+30.0 / -30.0 PSF	
72" X 82" *	+35.0 / -35.0 PSF	
74.75" X 95.5"	+30.0 / -30.0 PSF	
94.75" X 79.5"	+35.0 / -35.0 PSF	
70.75" X 79.5"	+35.0 / -35.0 PSF	

*UNIT USES ALUMINUM REINFORCEMENTS, ALL OTHERS USE STEEL

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TITLE: 311/312/378 SLIDING GLASS DOOR INSTALLATION & GENERAL NOTES

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
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REVISIONS

NO.	DESCRIPTION	BY	DATE
A	TESTING UPDATE	SM	07.09.14

STATE OF TEXAS
ALEXIS SPYROU
102957
LICENSED
PROFESSIONAL ENGINEER
7-31-14

ALEXIS SPYROU, P.E.
TEXAS P. E. NO.102957
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004

DATE: 09.20.12 | DWN BY: JLA | CHK BY: HFN | SCALE: NTS

DWG #: ATR057

SHEET: 1 OF 5

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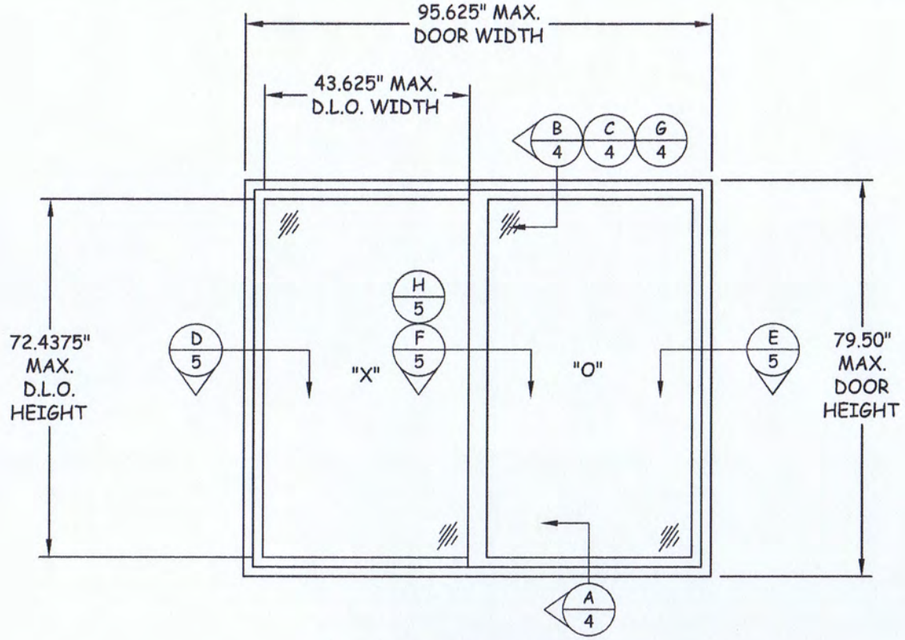
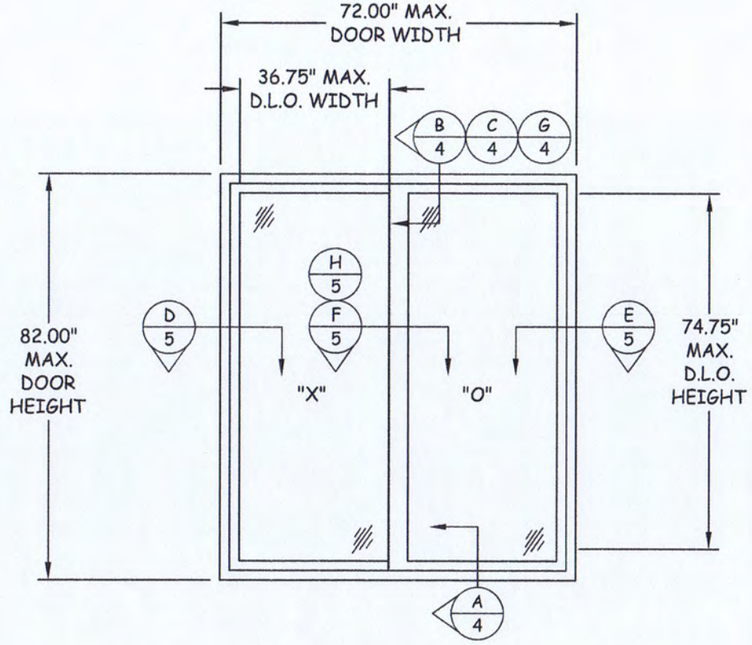


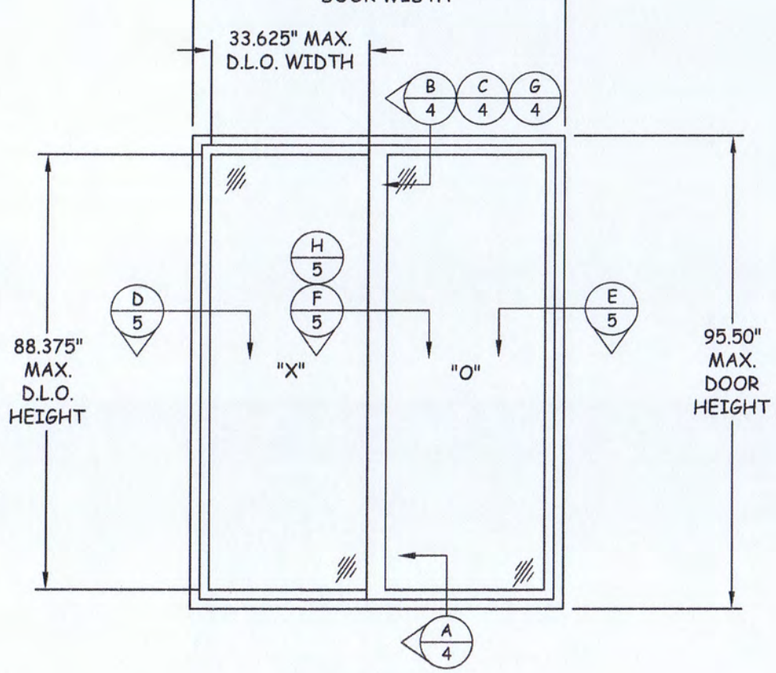
ELEVATION

TYPICAL



ELEVATION

TYPICAL



ELEVATION

TYPICAL

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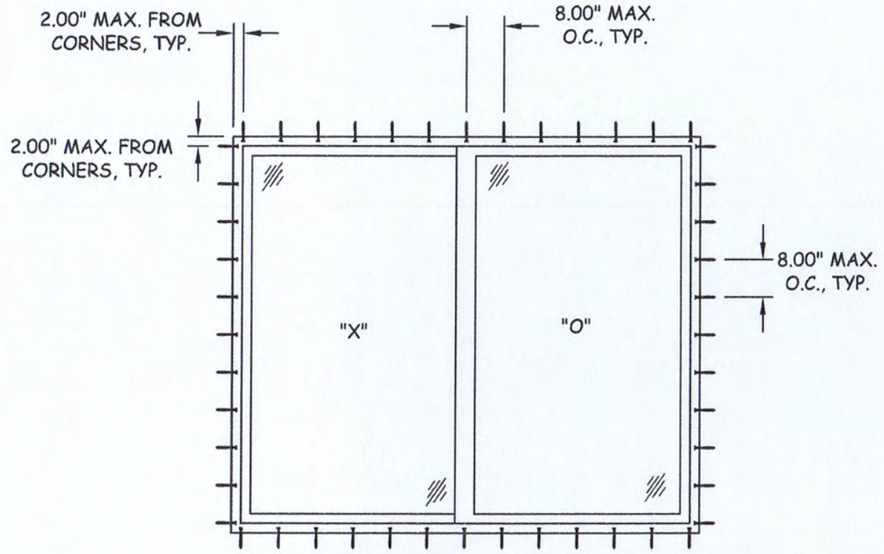
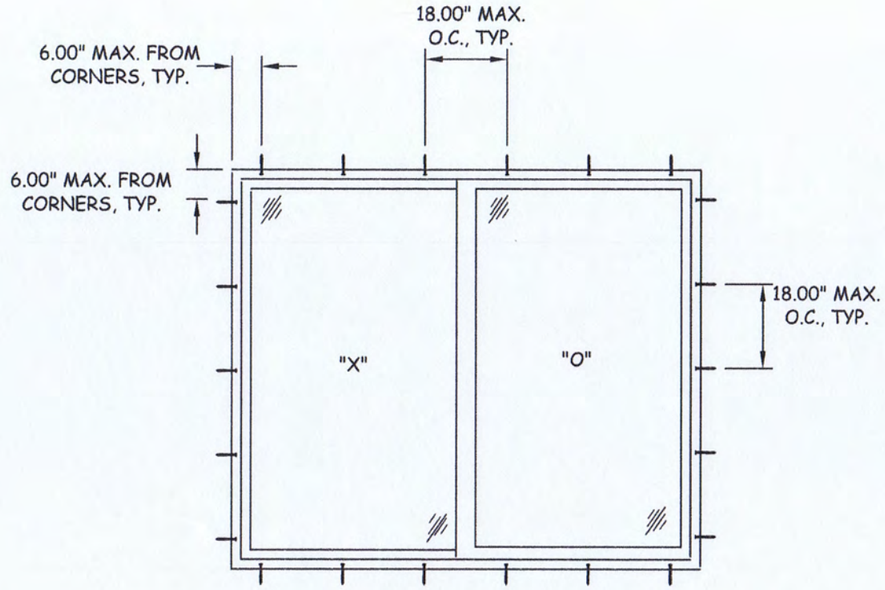


ANCHOR LAYOUT

NAILING FIN



ANCHOR LAYOUT

THROUGH FRAME

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TITLE: 311/312/378 SLIDING GLASS DOOR ANCHOR LAYOUTS

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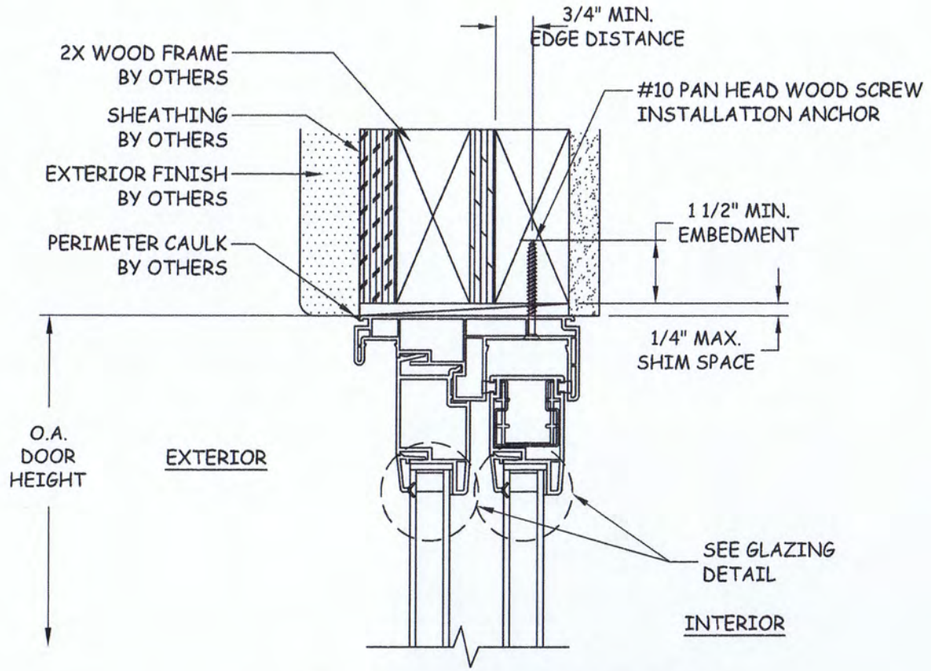
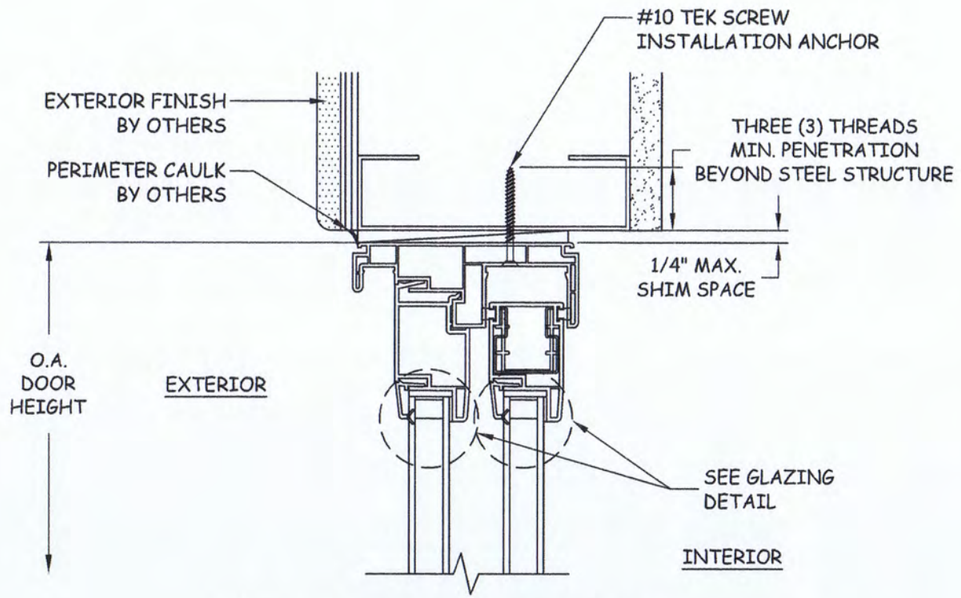
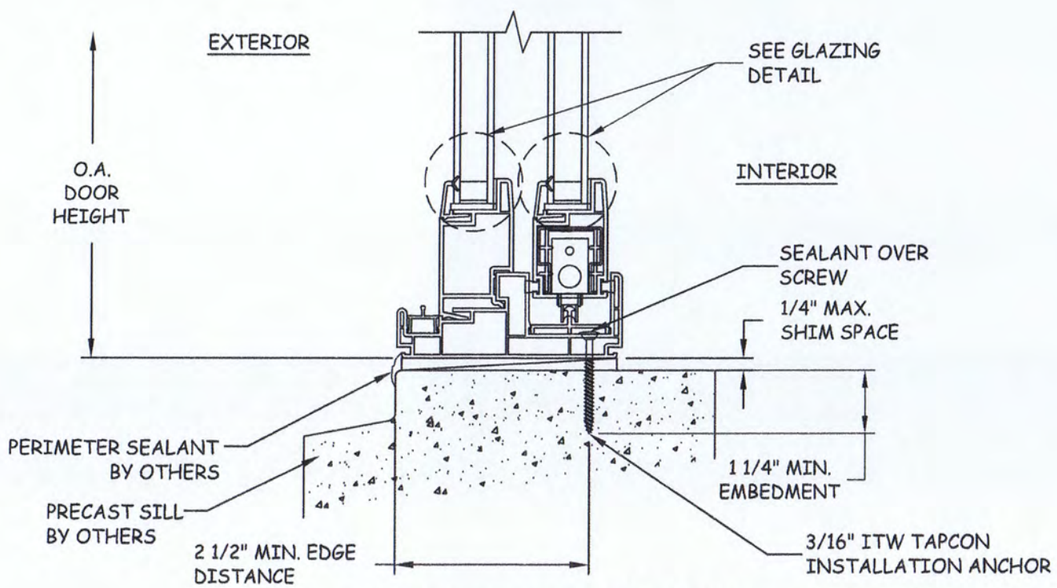


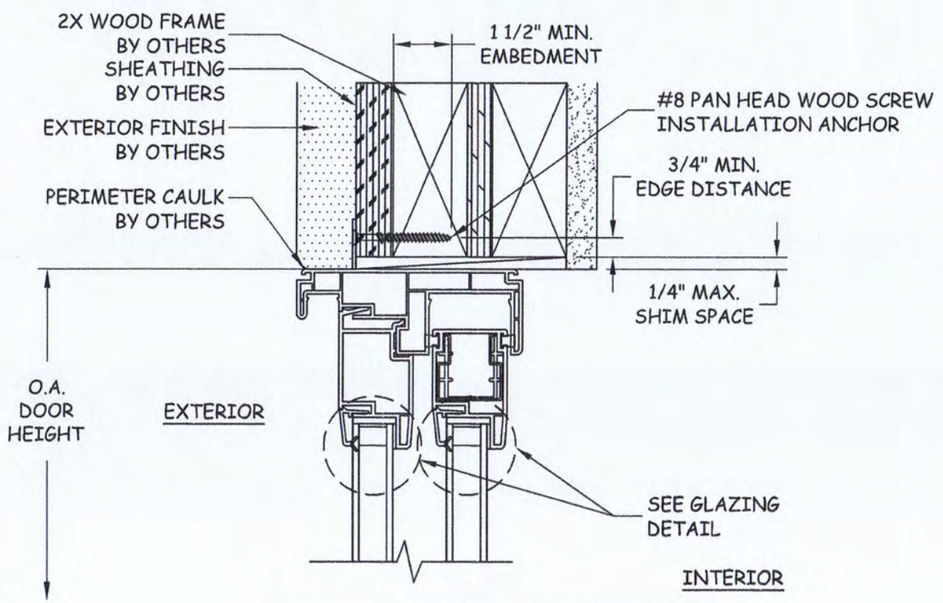
B/4 VERTICAL SECTION
2X WOOD FRAME - HEAD



C/4 VERTICAL SECTION
STEEL STUD FRAME - HEAD



A/4 VERTICAL SECTION
CONCRETE - SILL



G/4 VERTICAL SECTION
2X WOOD FRAME - HEAD
ALTERNATE FIN INSTALLATION (TYP.)

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TITLE: 311/312/378 SLIDING GLASS DOOR VERTICAL SECTIONS

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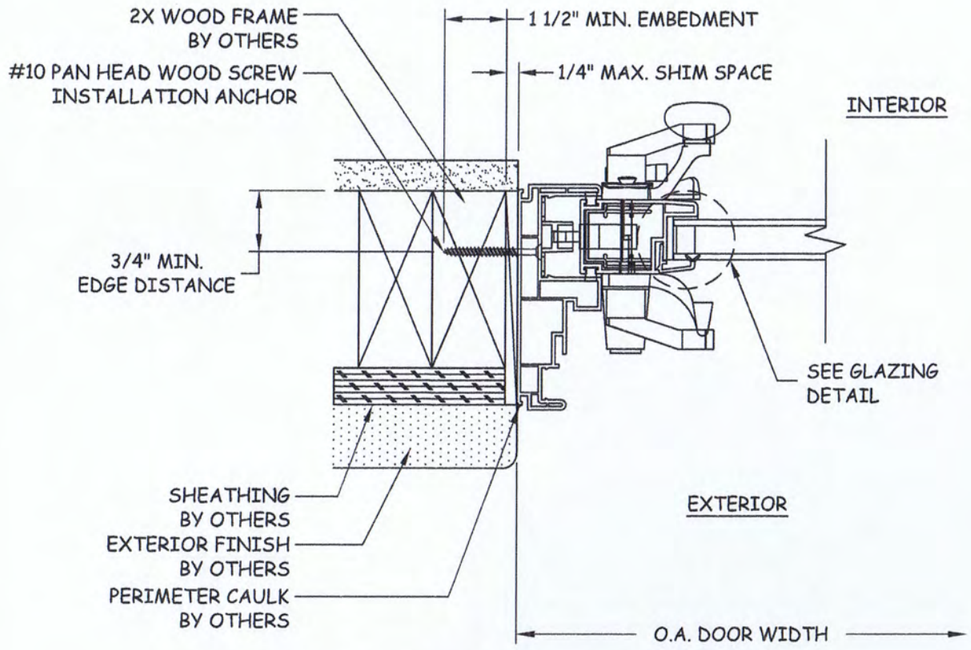
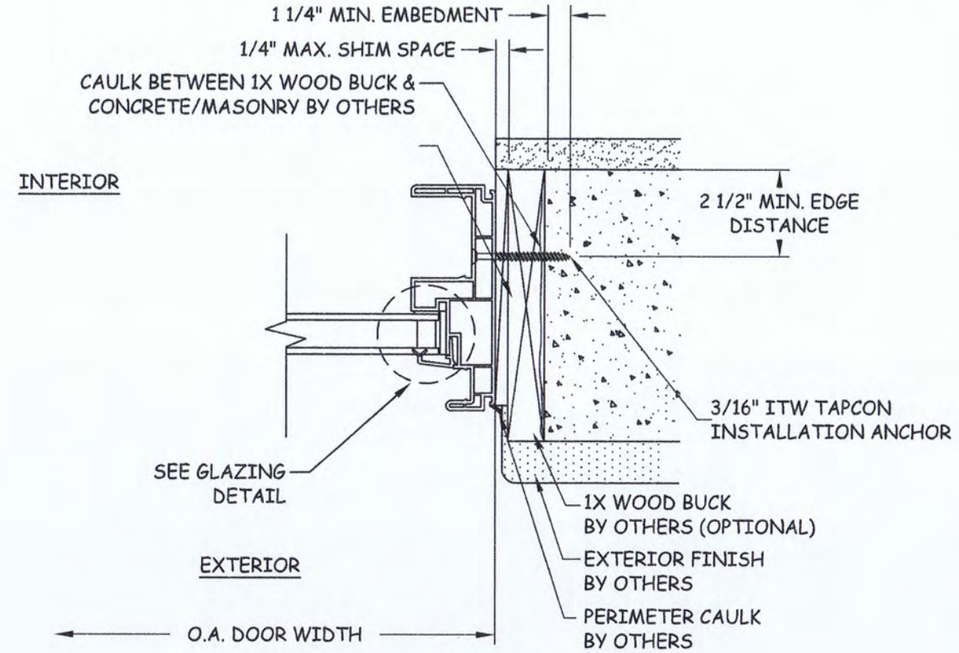


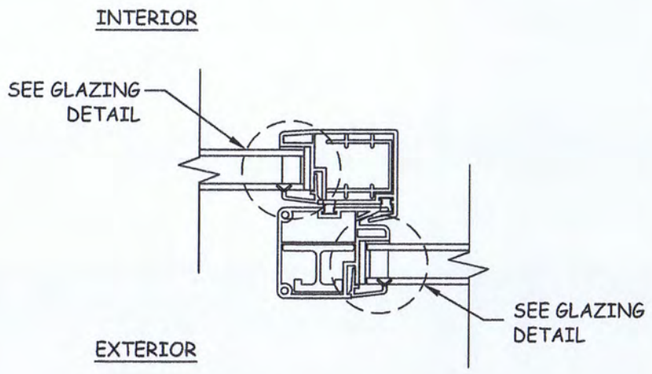
D/5 HORIZONTAL SECTION

2X WOOD FRAME - JAMB



E/5 HORIZONTAL SECTION

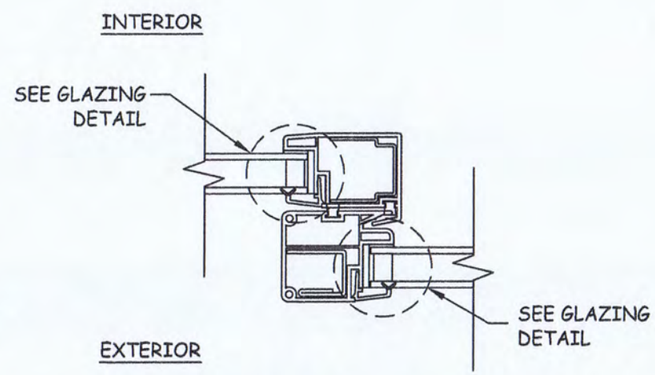
CONCRETE/MASONRY - JAMB



F/5 HORIZONTAL SECTION

MEETING STILE
ALUMINUM REINFORCEMENT

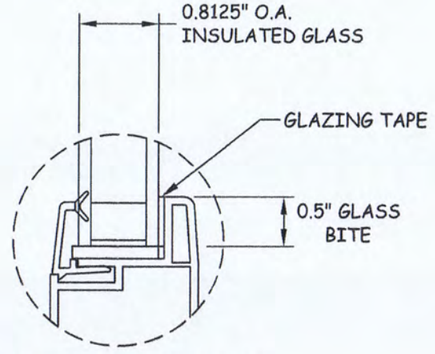
NOTE: FOR USE WITH PANEL SIZES UP TO 37.125" X 79.6875" WITH A DESIGN PRESSURE OF 35 PSF



H/5 HORIZONTAL SECTION

MEETING STILE
STEEL REINFORCEMENT

NOTE: CAN BE USED WITH ALL PANEL SIZES



GLAZING DETAIL 1

NOTES:
1. GLASS THICKNESS AND TYPE MAY VARY PER ASTM E 1300 REQUIREMENT GLASS CHARTS.
2. ALL GLAZING CONFIGURATIONS SHALL COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN THE CURRENT FBC.

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