

ATRIUM CORPORATION - 332/388 VINYL 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.

THROUGH FIN: FOR INSTALLATION INTO WOOD FRAMING USE #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
6.

THROUGH FIN: FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #10 SELF TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS PENETRATION BEYOND METAL FRAME SUBSTRATE.
7.

THROUGH FRAME: FOR INSTALLATION INTO WOOD FRAMING USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
8.

THROUGH FRAME: FOR INSTALLATION THROUGH IX BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE 3/16 INCH DIAMETER ITW TAPCON OF SUFFICIENT LENGTH TO ACHIEVE 1-1/4 INCH MINIMUM EMBEDMENT.
9.

THROUGH FRAME: FOR INSTALLATION INTO METAL STUD OR APPROVED MULLION USE #8 SELF TAPPING SCREWS THROUGH THE FIN 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.

D.

STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.

E.

ALUMINUM - MINIMUM ALLOY 6063-T5. MINIMUM WALL THICKNESS OF 1/16" (0.0625").

SIZE CHART					
OVERALL SIZE		PRODUCT RATING	MAX. DESIGN PRESSURE	CONFIGURATION	MISSILE IMPACT RATING
WIDTH	HEIGHT				
*72"	95-1/2"	R-PG40	+40/-40 PSF	FIN	NON-IMPACT
70-3/4"	95-1/2"	R-PG50	+50/-50 PSF		
*72"	81-1/2"	R-PG50	+50/-50 PSF		
94-3/4"	79-1/2"	R-PG50	+50/-50 PSF		
*72"	95-1/2"	R-PG40	+40/-40 PSF	FINLESS	
70-3/4"	95-1/2"	R-PG50	+50/-50 PSF		
*72"	81-1/2"	R-PG50	+50/-50 PSF		
94-3/4"	79-1/2"	R-PG50	+50/-50 PSF		

*UNIT USES ALUMINUM REINFORCEMENTS, ALL OTHERS USE STEEL

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATIONS & ANCHOR LAYOUTS
3	ELEVATIONS & ANCHOR LAYOUTS
4	ELEVATIONS & ANCHOR LAYOUTS
5	VERTICAL SECTIONS & GLAZING DETAIL
6	HORIZONTAL SECTIONS

GENERAL NOTES:

1.

THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC) & THE CURRENT IBC/IRC, EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

•

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

ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY 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.

IX 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: VINYL/PVC
7.

GLASS SHALL MEET THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 5 FOR GLAZING DETAIL.
8.

DESIGNATIONS "X" AND "O" STAND FOR THE FOLLOWING:

X:

OPERABLE PANEL

O:

FIXED PANEL
9.

APPROVED CONFIGURATION:

•

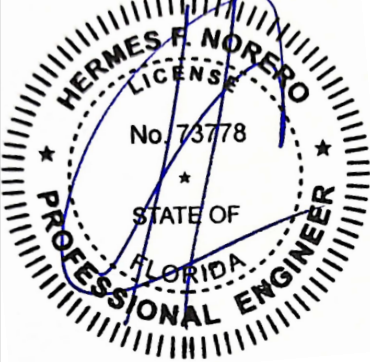
2 TRACK: OX, XO



300 WELCOME CENTER BLVD
WELCOME, NC 27374
PH: (800) 542-9118

DATE: 01.02.20		TITLE: 332/388 VINYL SLIDING GLASS DOOR INSTALLATION & GENERAL NOTES			
DWN BY: YC		NO.	REVISION DESCRIPTION	BY	DATE
		C	CERTIFICATION UPDATE	LS	09.01.16
CHK BY: HFN		D	METAL SUBSTRATE ADD	YC	04.16.20
SCALE: NTS		E	UPDATED FOR 7TH ED.(2020) FBC	LMH	01.10.22
		F	UPDATED TO CURRENT FBC.	LMH	11.27.24

Digitally signed by Hermes F. Norero, P.E
Reason: I am approving this document
Date: 2024.12.23 11:54:15 -05'00'



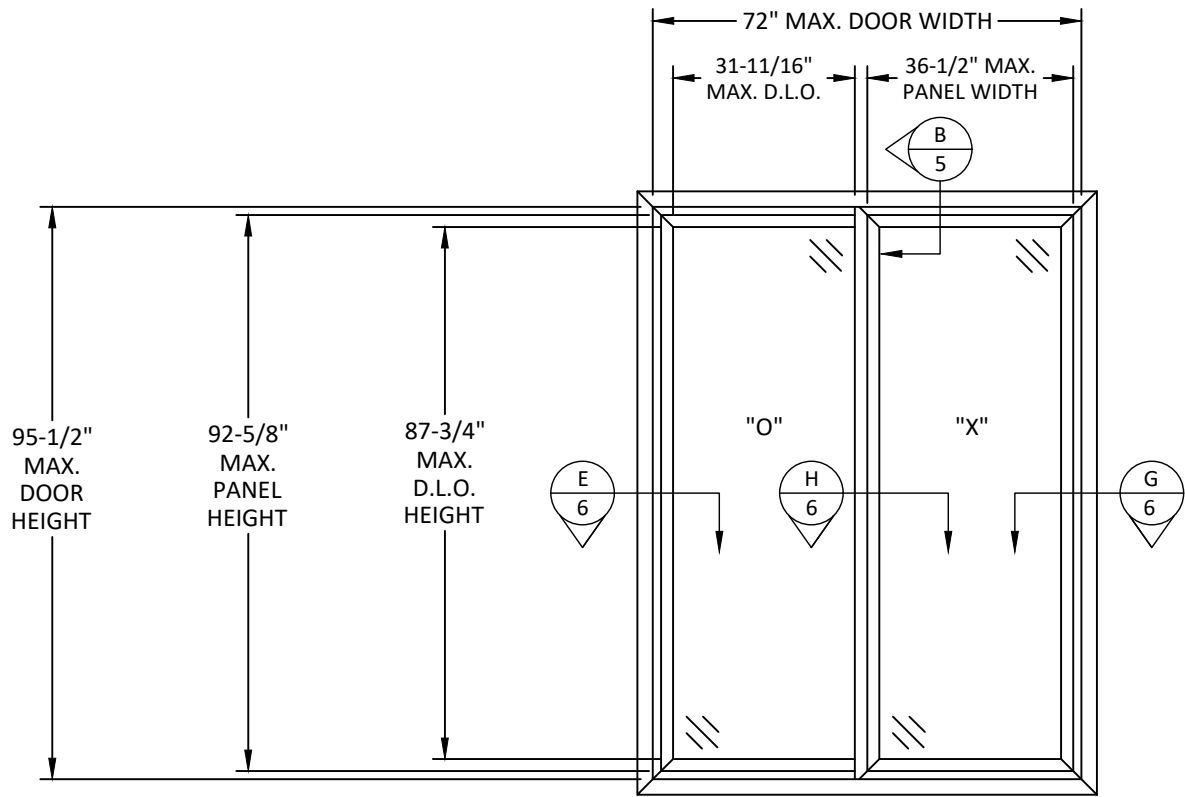
HERMES F. NORERO
FLORIDA P. E. NO. 73778
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION NO. 29578

BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH:(954)399-8478 FX:(954)744-4738

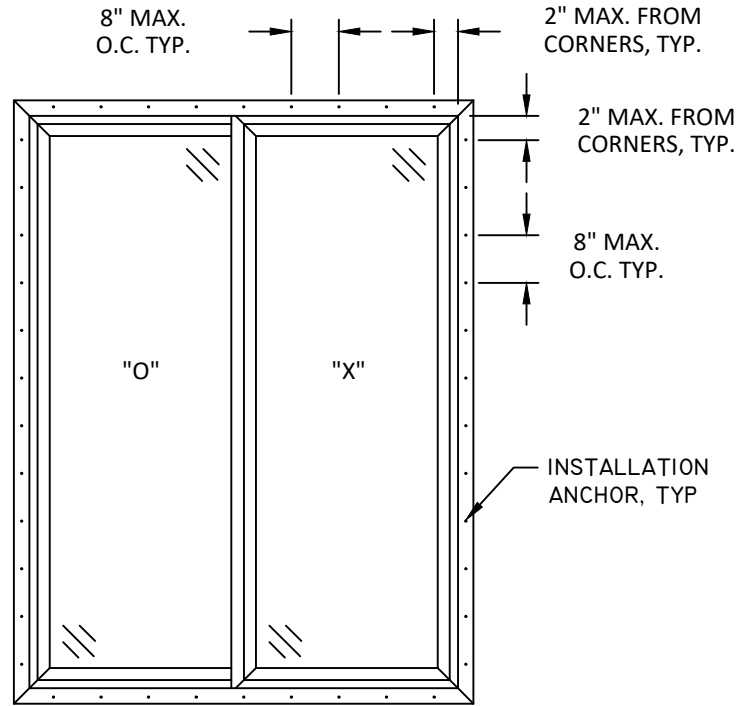
FL#: 11646

DWG#: ATR025

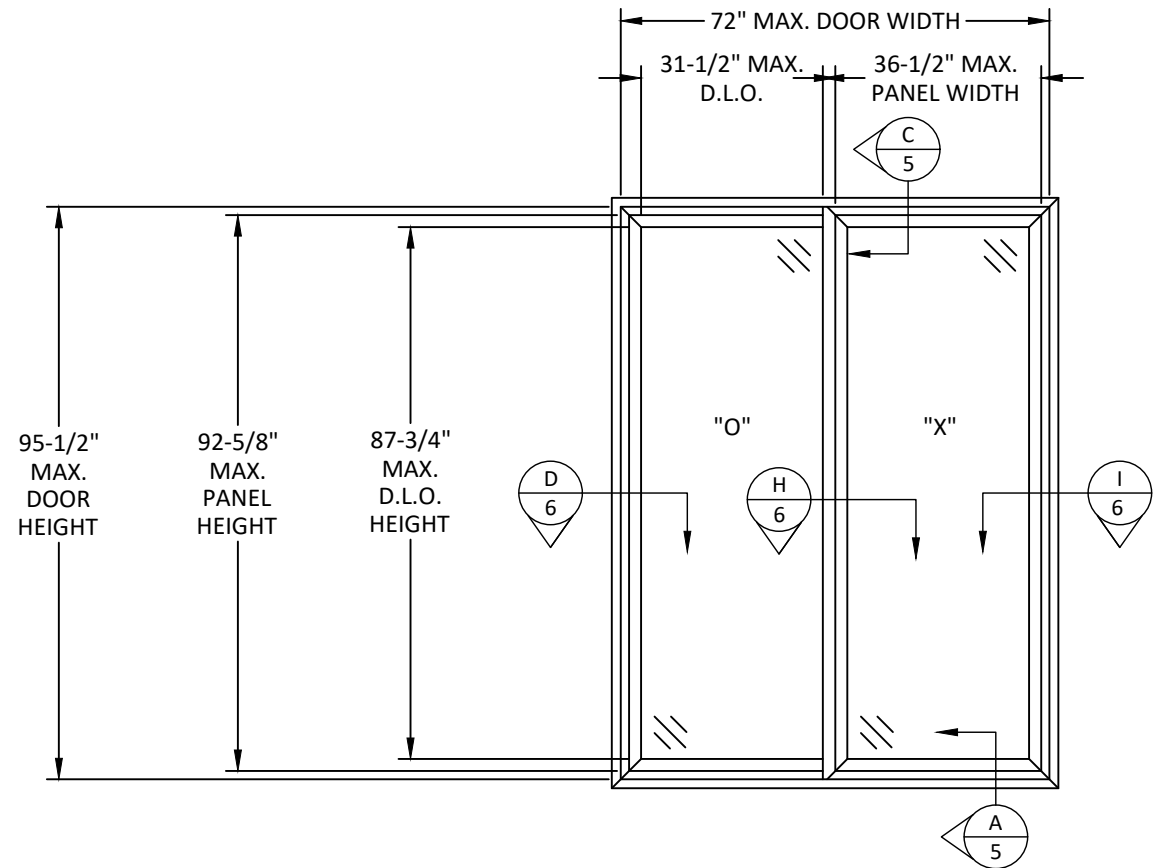
SHEET: 1 OF 6



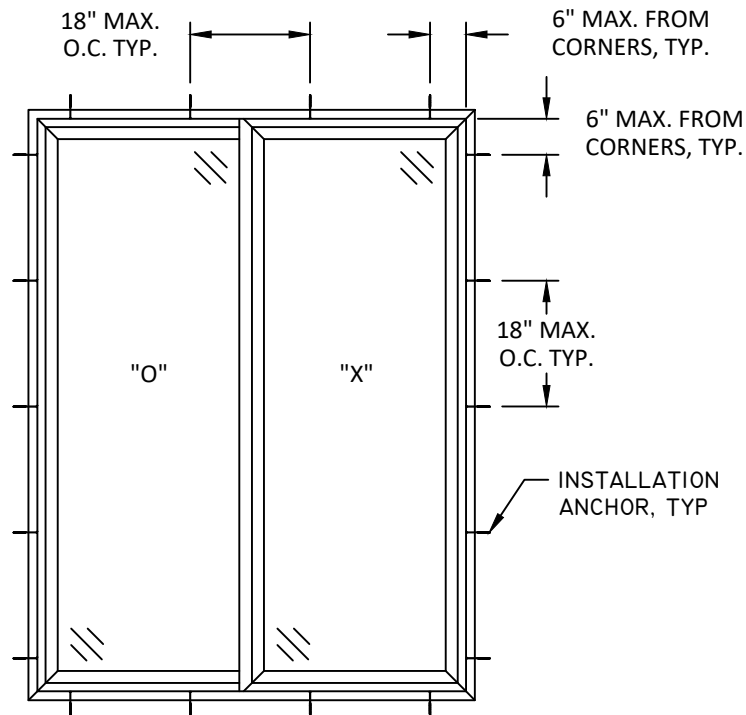
ELEVATION
EXTERIOR VIEW - FIN INSTALLATION



ANCHOR LAYOUT
FIN INSTALLATION



ELEVATION
EXTERIOR VIEW - FINLESS INSTALLATION



ANCHOR LAYOUT
FINLESS INSTALLATION

TITLE: 332/388 VINYL SLIDING GLASS DOOR ELEVATIONS & ANCHOR LAYOUTS	DATE	09.01.16
	BY	LS
	REVISION DESCRIPTION	CERTIFICATION UPDATE
	NO.	C
	DATE	04.16.20
DATE: 01.02.20	BY	YC
	CHK BY:	HFN
	SCALE:	NTS
	NO.	D
	REVISION DESCRIPTION	METAL SUBSTRATE ADD
DATE: 01.02.20	BY	LMH
	CHK BY:	LMH
	SCALE:	NTS
	NO.	E
	REVISION DESCRIPTION	UPDATED FOR 7TH ED.(2020) FBC
DATE: 01.02.20	BY	LMH
	CHK BY:	LMH
	SCALE:	NTS
	NO.	F
	REVISION DESCRIPTION	UPDATED TO CURRENT FBC.



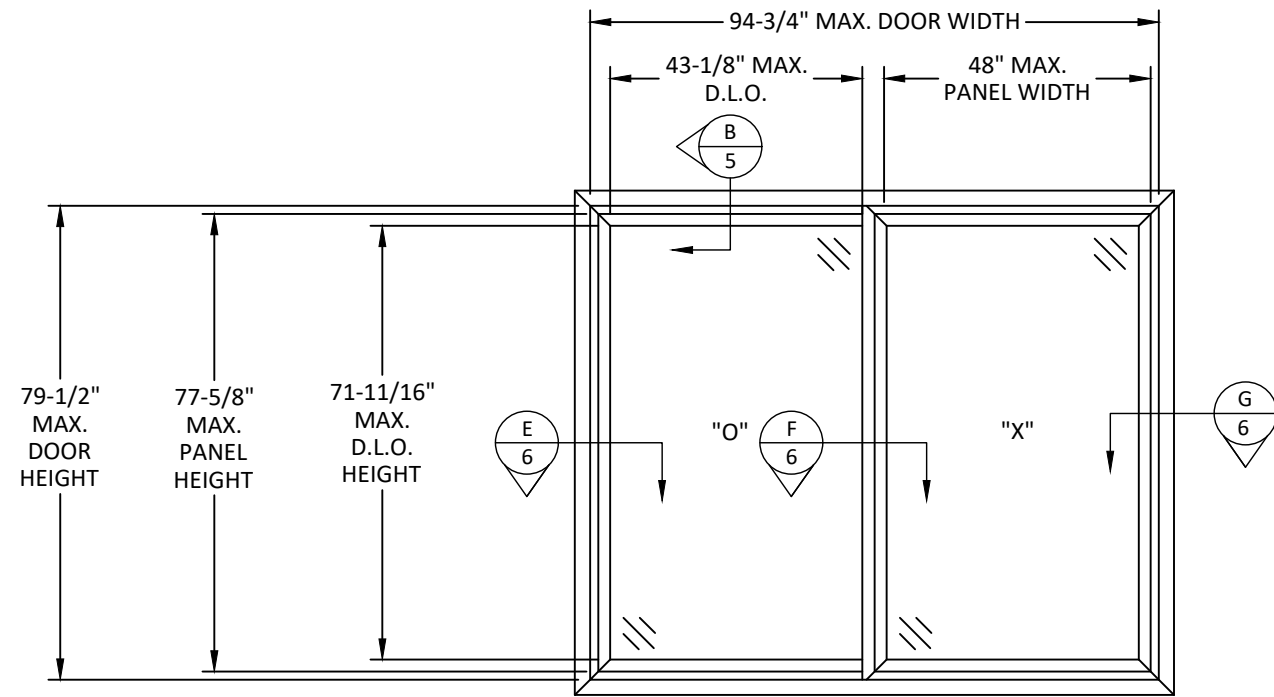
HERMES F. NORERO
FLORIDA P. E. NO. 73778
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION NO. 29578

BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH:(954)399-8478 FX:(954)744-4738

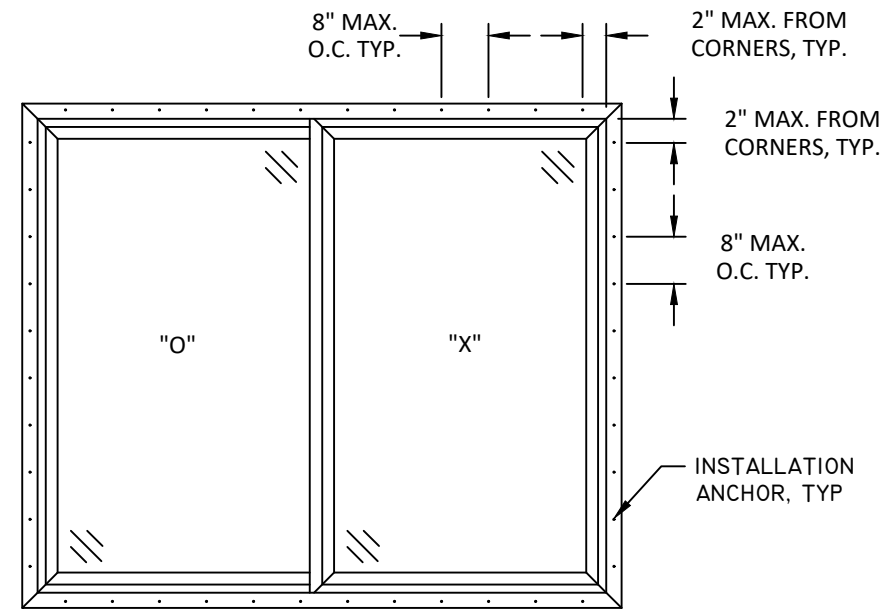
FL#: 11646

DWG#: ATR025

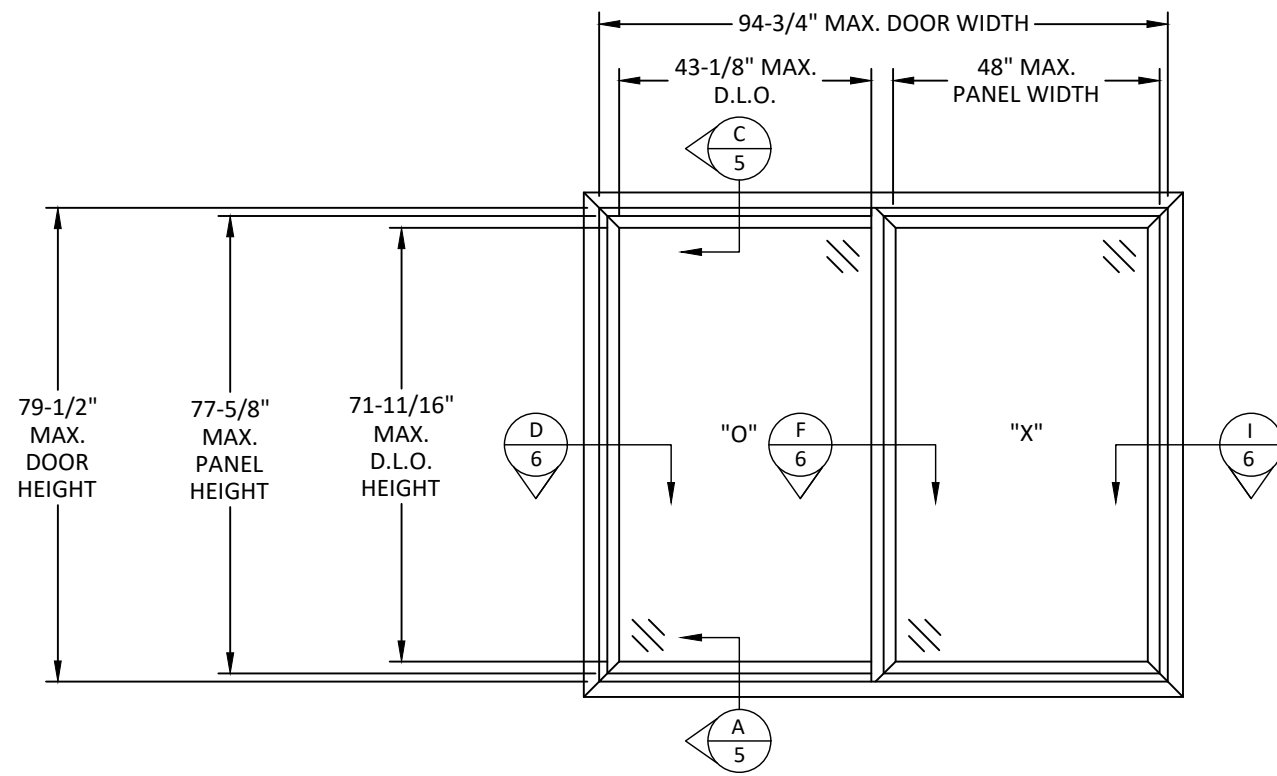
SHEET: 2 OF 6



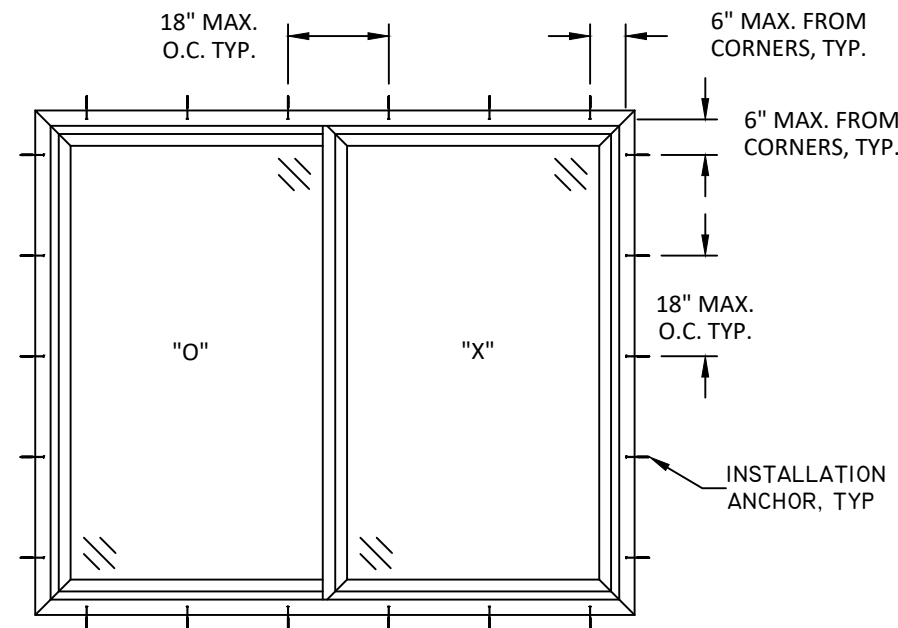
ELEVATION
EXTERIOR VIEW - FIN INSTALLATION



ANCHOR LAYOUT
FIN INSTALLATION

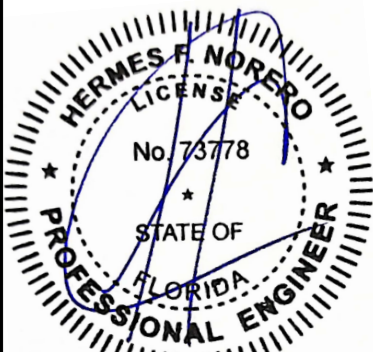


ELEVATION
EXTERIOR VIEW - FINLESS INSTALLATION



ANCHOR LAYOUT
FINLESS INSTALLATION

TITLE: 332/388 VINYL SLIDING GLASS DOOR ELEVATIONS & ANCHOR LAYOUTS	DATE	09.01.16	04.16.20	01.10.22	11.27.24
	BY	LS	YC	LMH	LMH
	REVISION DESCRIPTION				
	NO.	C	D	E	F
		CERTIFICATION UPDATE	METAL SUBSTRATE ADD	UPDATED FOR 7TH ED.(2020) FBC	UPDATED TO CURRENT FBC.
DATE:	DWN BY:	CHK BY:	SCALE:		
01.02.20	YC	HFN	NTS		



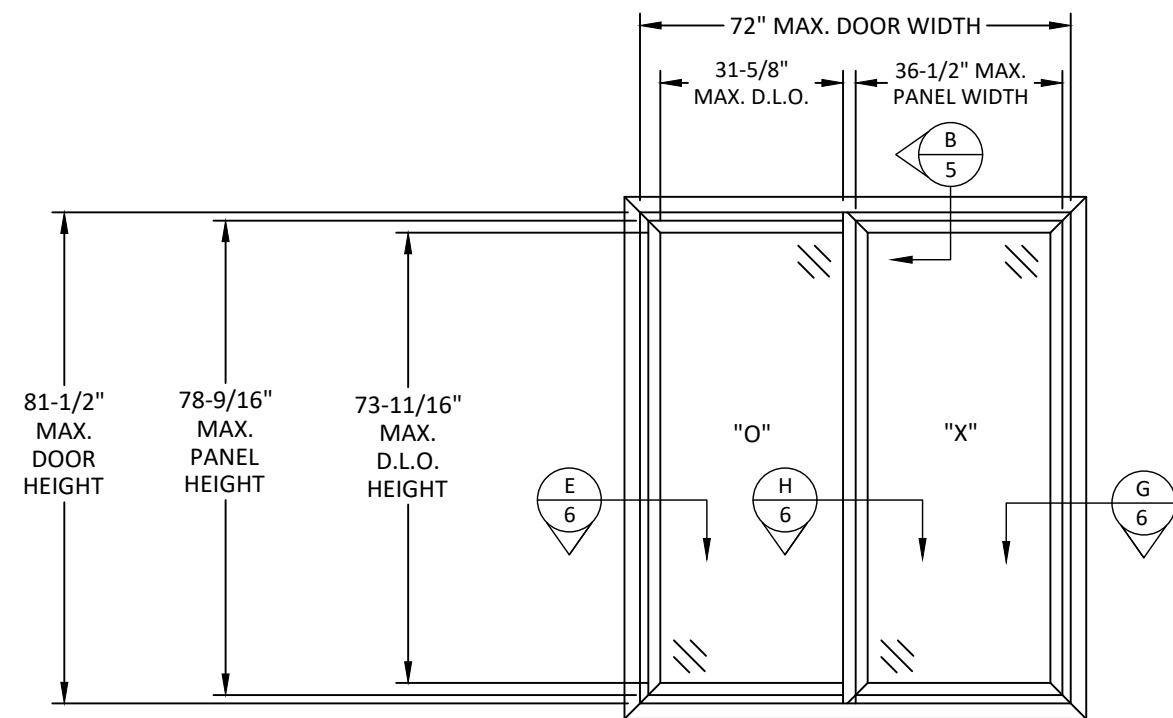
HERMES F. NORERO
FLORIDA P. E. NO. 73778
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION NO. 29578

BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH:(954)399-8478 FX:(954)744-4738

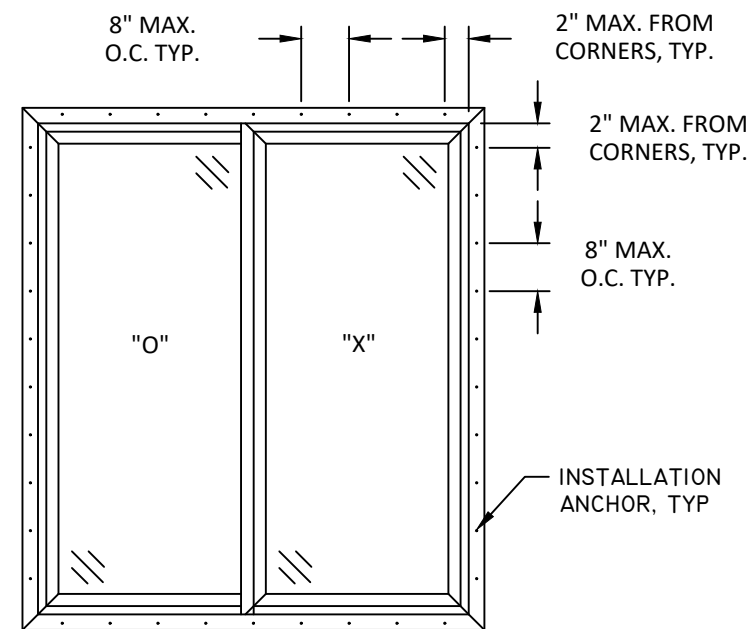
FL#: 11646

DWG#: ATR025

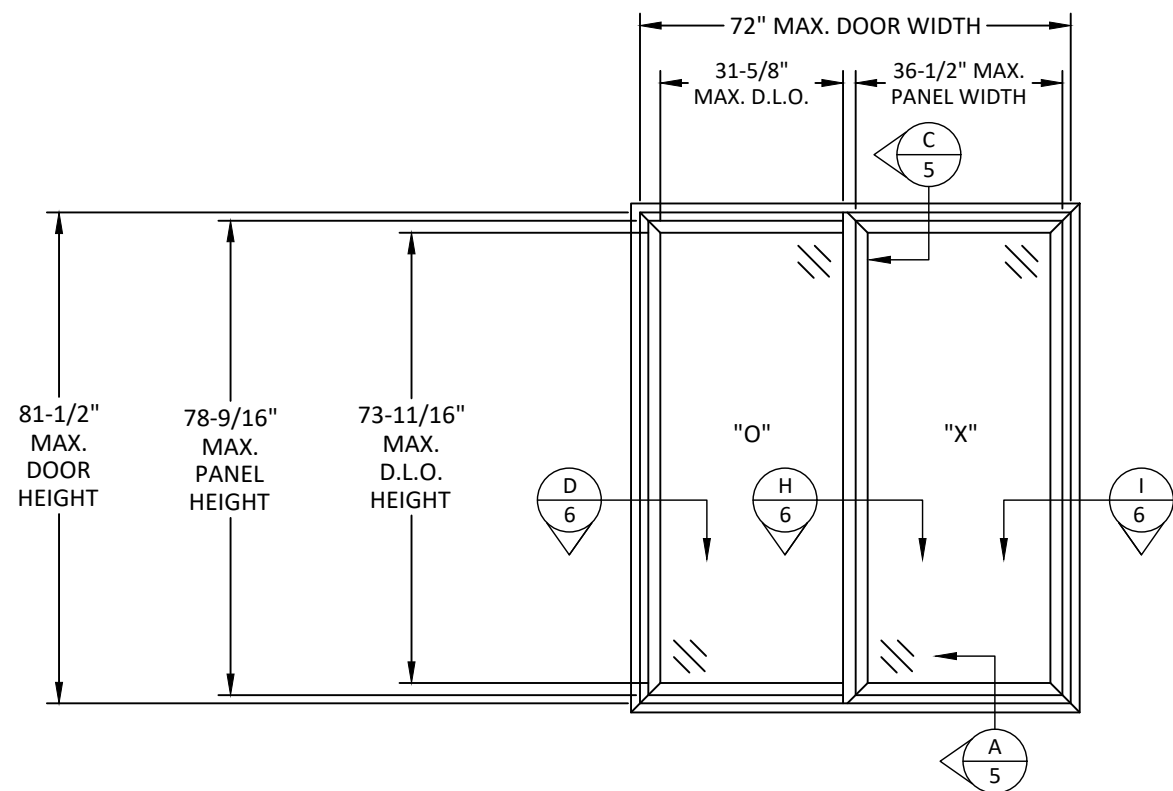
SHEET: 3 OF 6



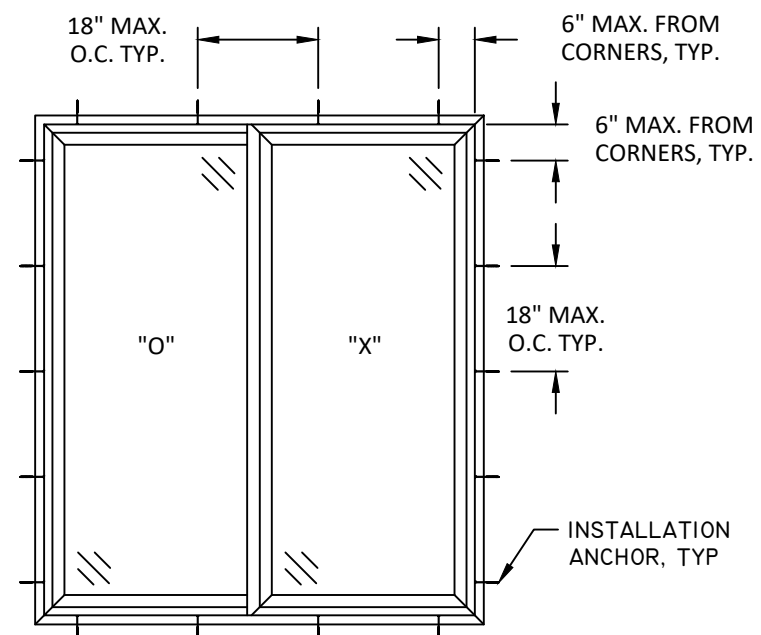
ELEVATION
EXTERIOR VIEW - FIN INSTALLATION



ANCHOR LAYOUT
FIN INSTALLATION

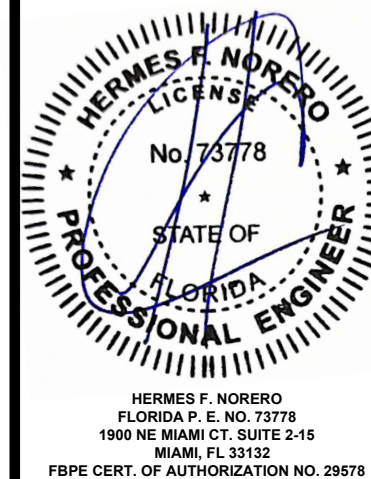


ELEVATION
EXTERIOR VIEW - FINLESS INSTALLATION



ANCHOR LAYOUT
FINLESS INSTALLATION

TITLE: 332/388 VINYL SLIDING GLASS DOOR ELEVATIONS & ANCHOR LAYOUTS	DATE	09.01.16
	BY	LS
	REVISION DESCRIPTION	CERTIFICATION UPDATE
	NO.	C
	DATE	04.16.20
	BY	YC
DATE: 01.02.20	DWN BY:	YC
	CHK BY:	HFN
	SCALE:	NTS
	REVISION DESCRIPTION	METAL SUBSTRATE ADD
	NO.	D
	DATE	01.10.22
DATE: 01.02.20	DWN BY:	YC
	CHK BY:	HFN
	SCALE:	NTS
	REVISION DESCRIPTION	UPDATED FOR 7TH ED.(2020) FBC
	NO.	E
	DATE	11.27.24
DATE: 01.02.20	DWN BY:	YC
	CHK BY:	HFN
	SCALE:	NTS
	REVISION DESCRIPTION	UPDATED TO CURRENT FBC.
	NO.	F
	DATE	11.27.24



HERMES F. NORERO
FLORIDA P. E. NO. 73778
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION NO. 29578

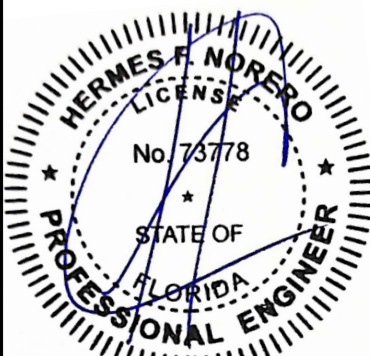
BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH:(954)399-8478 FX:(954)744-4738

FL#: 11646

DWG#: ATR025

SHEET: 4 OF 6

TITLE: 332/388 VINYL SLIDING GLASS DOOR VERTICAL SECTIONS	DATE	09.01.16	BY	LS	REVISION DESCRIPTION	C	CERTIFICATION UPDATE	D	METAL SUBSTRATE ADD	E	UPDATED FOR 7TH ED.(2020) FBC	F	UPDATED TO CURRENT FBC.
	NO.												
	DATE	01.02.20	DWN BY:	YC	CHK BY:	HFN	SCALE:	NTS					



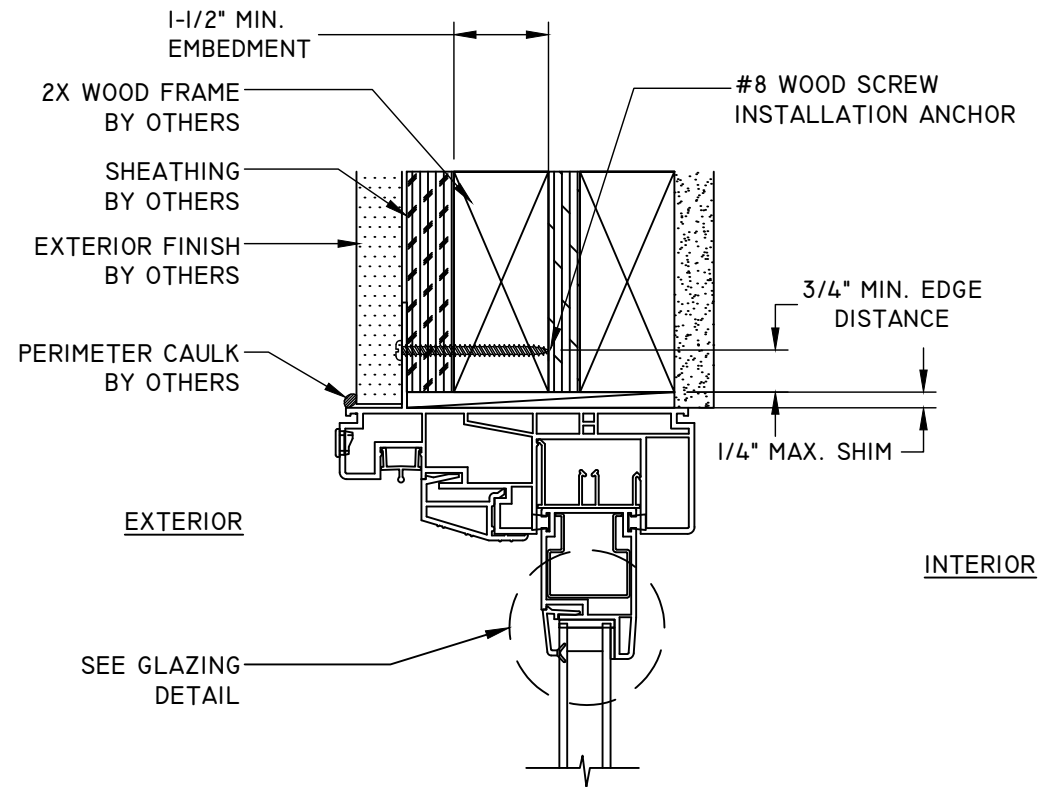
HERMES F. NORERO
FLORIDA P. E. NO. 73778
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION NO. 29578

BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH:(954)399-8478 FX:(954)744-4738

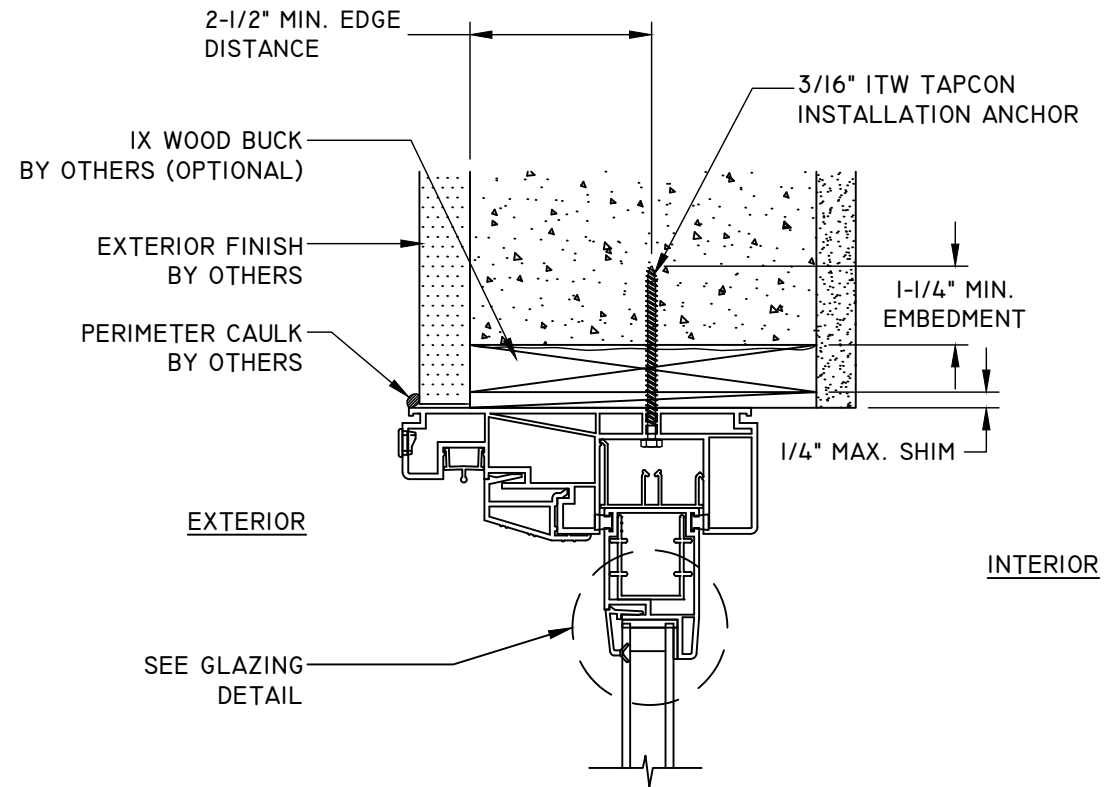
FL#: 11646

DWG#: ATR025

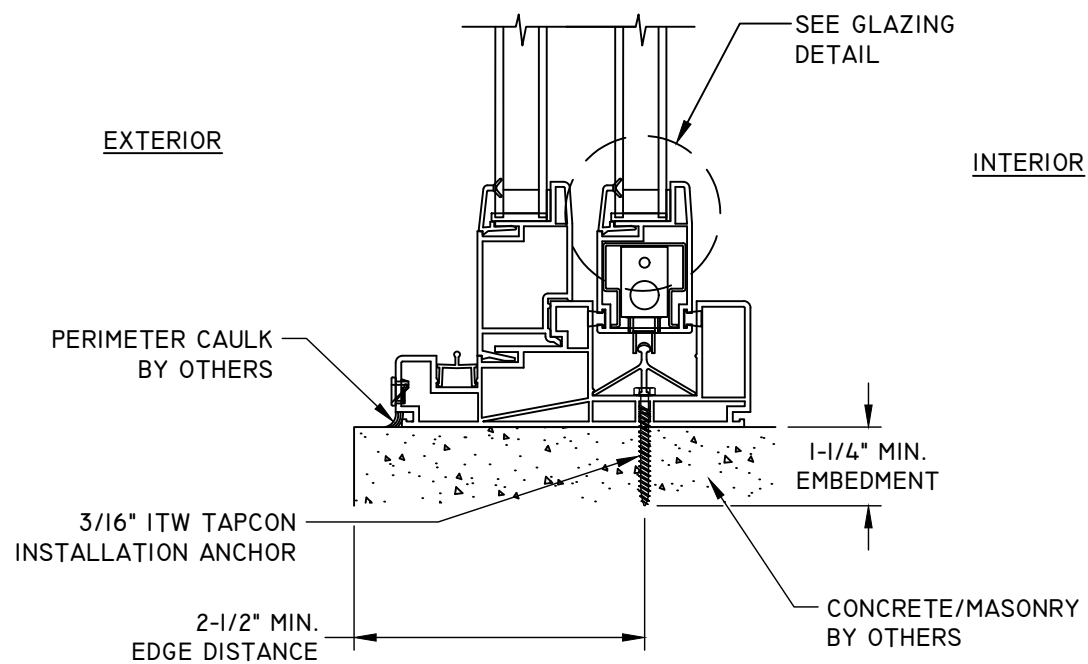
SHEET: 5 OF 6



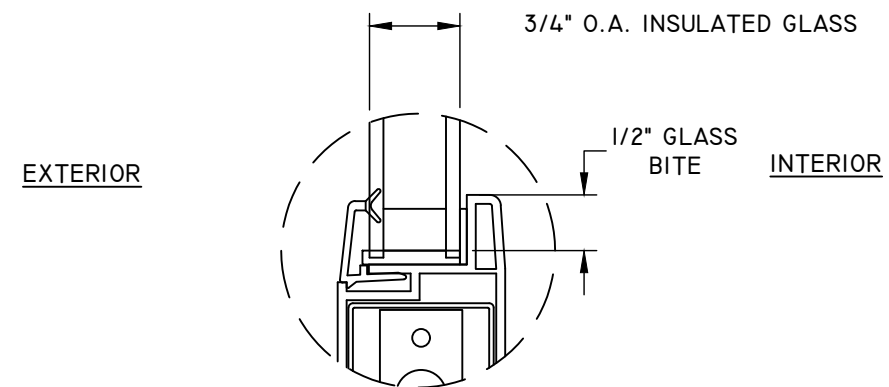
B
5 VERTICAL SECTION
2X WOOD FRAME - HEAD & SILL
FIN INSTALLATION



C
5 VERTICAL SECTION
CONCRETE/MASONRY - HEAD
FINLESS INSTALLATION WITH WOOD BUCK
OR DIRECTLY TO CONCRETE/MASONRY



A
5 VERTICAL SECTION
CONCRETE/MASONRY - SILL
FINLESS INSTALLATION

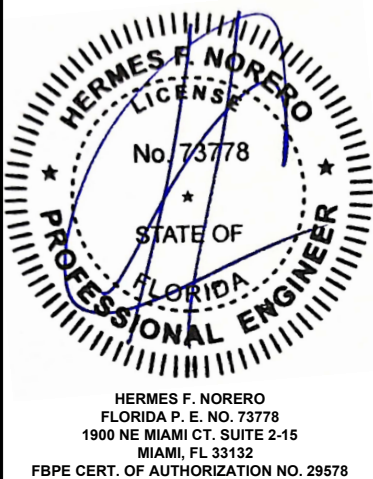


GLAZING DETAIL

GLAZING NOTES:

- GLASS TYPE SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. TEMPER AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
- SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.

<u>TITLE:</u> 332/388 VINYL SLIDING GLASS DOOR HORIZONTAL SECTIONS						
NO.		REVISION DESCRIPTION			BY	DATE
C		CERTIFICATION UPDATE			LS	09.01.16
D		METAL SUBSTRATE ADD			YC	04.16.20
E		UPDATED FOR 7TH ED.(2020) FBC			LMH	01.10.22
F		UPDATED TO CURRENT FBC.			LMH	11.27.24
DATE: 01.02.20		DWN BY: YC		CHK BY: HFN		
SCALE: NTS						



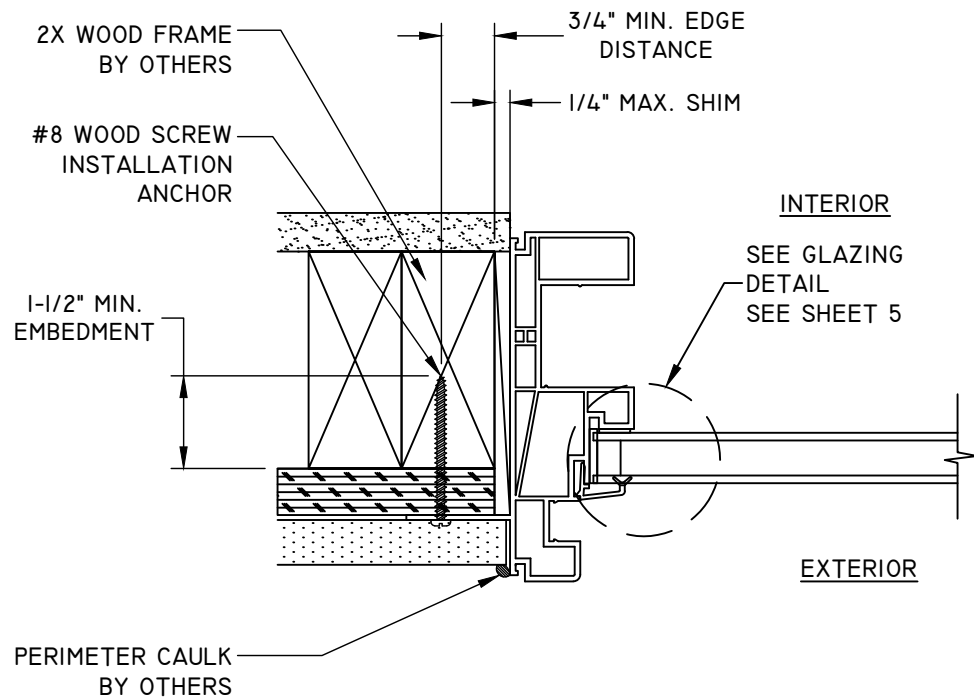
HERMES F. NORERO
FLORIDA P. E. NO. 73778
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION NO. 29578

BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH:(954)399-8478 FX:(954)744-4738

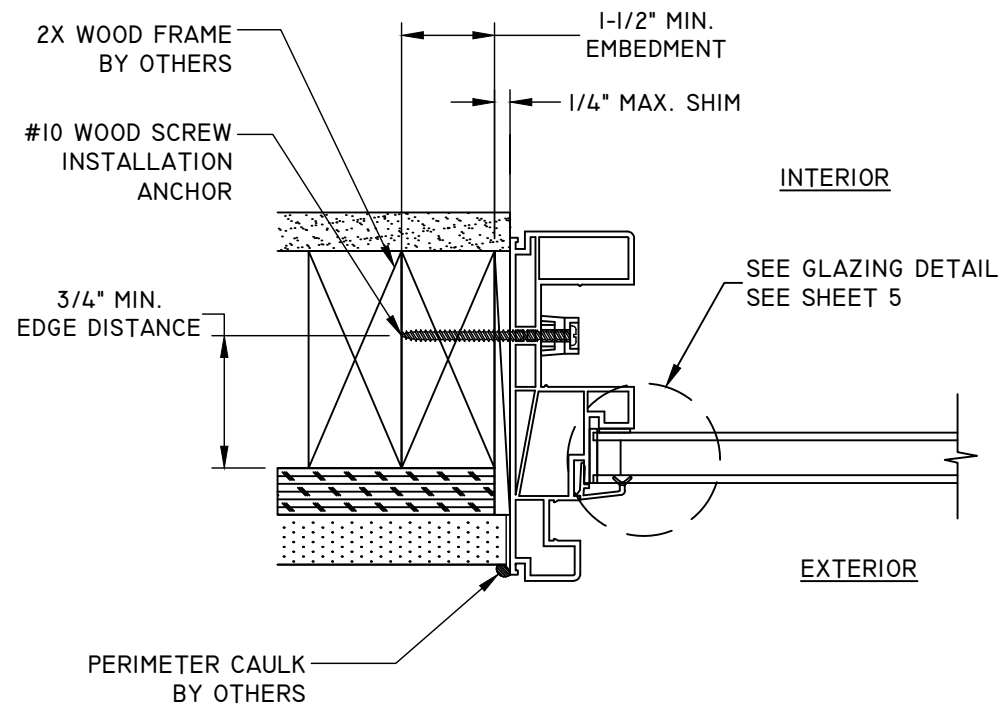
FL#: 11646

DWG#: ATR025

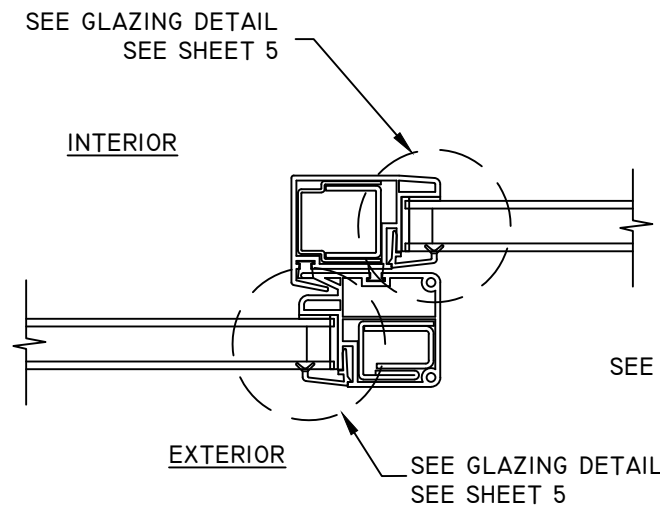
SHEET: 6 OF 6



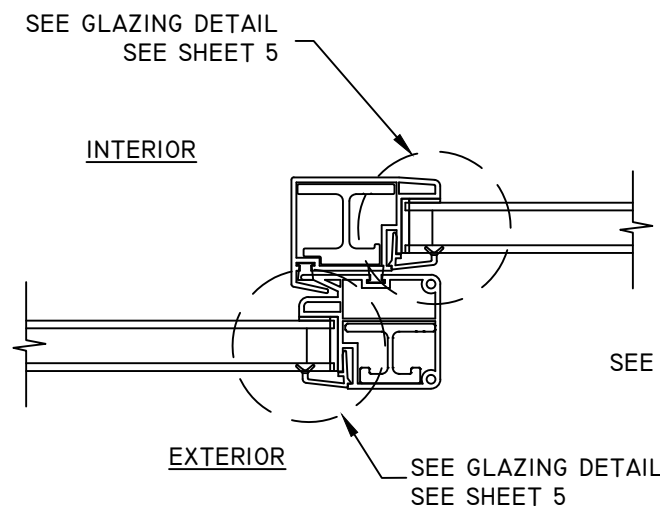
E
6 HORIZONTAL SECTION
2X WOOD FRAME - JAMB
FIN INSTALLATION



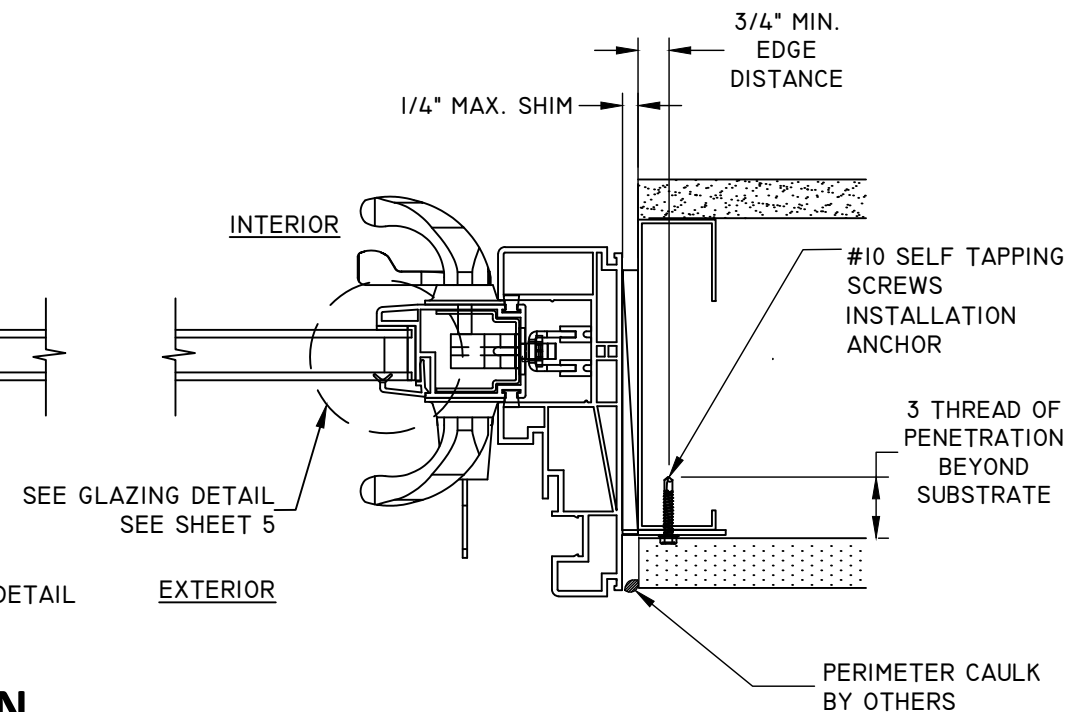
D
6 HORIZONTAL SECTION
2X WOOD FRAME - JAMB
FINLESS INSTALLATION



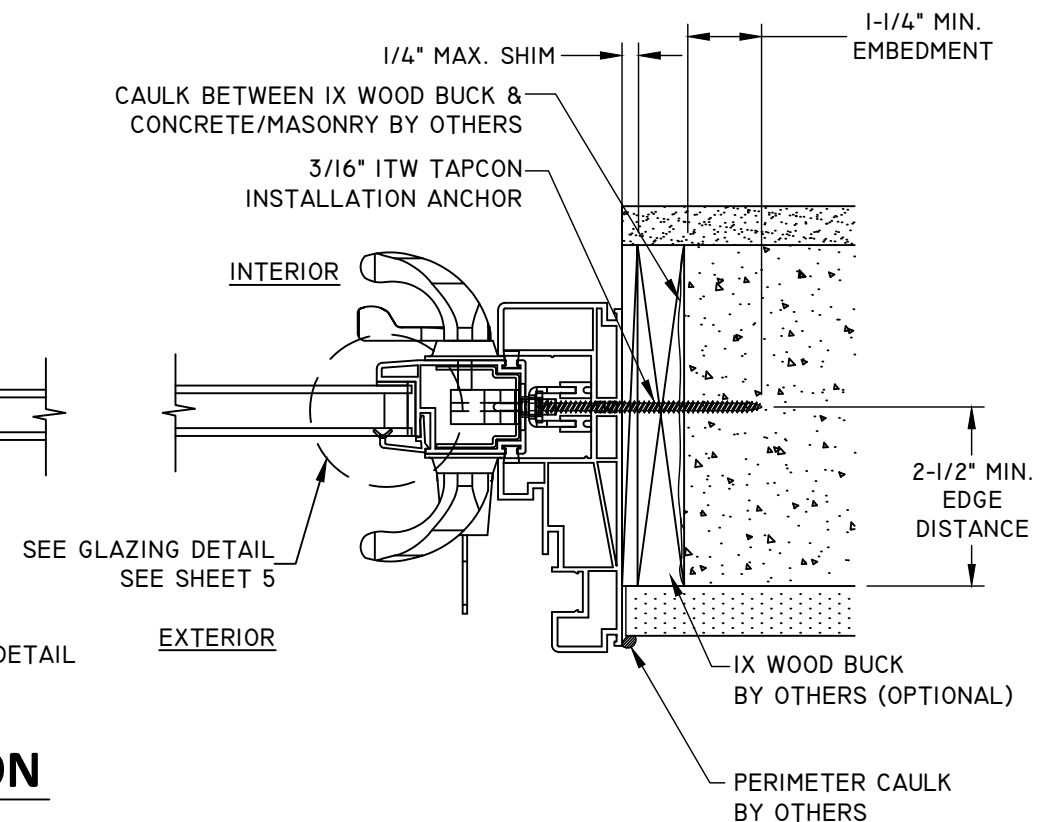
F
6 HORIZONTAL SECTION
INTERLOCK
STEEL REBAR



H
6 HORIZONTAL SECTION
INTERLOCK
ALUMINUM REBAR



G
6 HORIZONTAL SECTION
METAL STUD - JAMB
FIN INSTALLATION



I
6 HORIZONTAL SECTION
CONCRETE/MASONRY - JAMB
FINLESS INSTALLATION