

# PRODUCT APPROVAL DRAWINGS

## CG500 STORE FRONT WITH MULTIPLE INFILLS

### FOR USE IN HURRICANE ZONES

## REQUIRING LARGE MISSILE IMPACT PROTECTION

### (WET GLAZED/DRY GLAZED)



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PEACHTREE CITY, GA 305269  
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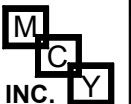
PRODUCT:

**CG500 STORE FRONT SYSTEM**  
W/ MULTIPLE INFILLS  
FOR HURRICANE ZONES  
(WET/DRY GLAZED)



REVN	DATE/REMARKS
REV.1	7/16/15 PER TDI COMMENTS
REV.2	09/30/21 UPDATE TO 2018

ENGINEER:



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANT

12781 MIRAMAR PARKWAY #301  
MIRAMAR, FL 12781  
P: (305) 271-0117  
Email: MCY@MCYEngineering.com  
www.MCYEngineering.com

STAMP:



October 12, 2021

PRODUCT CONTROL APPROVAL:

DRAWN: James  
DATE: 9-30-21  
DWG: AD14-06

DRAWING No:  
**1 OF 13**

GENERAL NOTES:

TEST STANDARDS

AIR-TAS202 AND ASTM E283  
WATER-TAS202 AND ASTM E331  
STATIC-TAS202 AND ASTM E330  
IMPACT-TAS201 AND ASTM E1886/E1996  
CYCLIC-TAS203 AND ASTM E1886/E1996

DESIGN PRESSURE LISTED IN THIS DRAWING IS ALLOWABLE DESIGN LOAD.

WATER INFILTRATION: 15 PSF

AIR INFILTRATION: 6.24 PSF

TYPICAL GLASS BITE IS 9/16" UNLESS OTHERWISE NOTED

1/4" MAX, SHIM SPACE @ PERIMETER UNLESS OTHERWISE NOTED

ALUMINUM EXTRUSIONS ARE 6063-T6 ALLOY AND TEMPER

THIS PRODUCT IS RATED FOR LARGE & SMALL MISSILE IMPACT INCLUDING HIGH VELOCITY HURRICANE ZONE. SHUTTERS ARE NOT REQUIRED. THE PRODUCT HAS BEEN DESIGNED AND TESTED FOR TO COMPLY WITH THE REQUIREMENT OF THE 2018 INTERNATIONAL BUILDING CODE & 2018 INTERNATIONAL RESIDENTIAL

MATERIALS WHICH COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE PAINTED OR FINISHED TO PREVENT CORROSION.

ENTRANCE DOORS FOR CG500 FRAMING SYSTEM ARE SHOWN ON THIS SUBMISSION. THE LOWER DESIGN PRESSURE OF WINDOW WALL OR DOOR WILL GOVERN.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

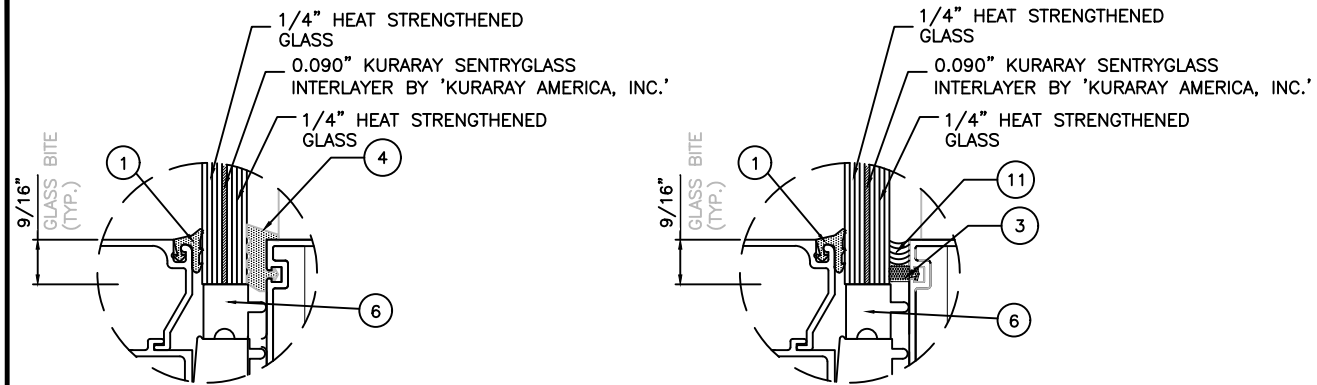
ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ABBREVIATIONS:

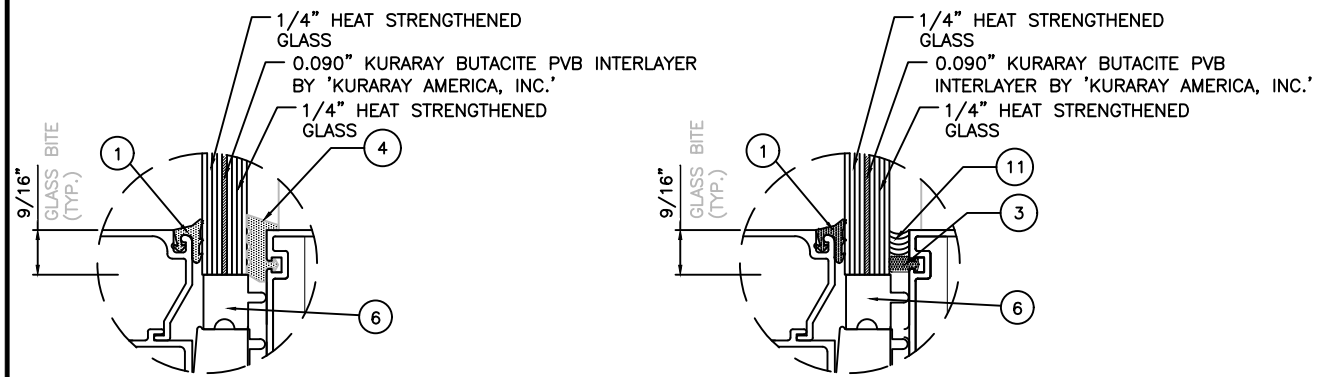
D.L.O. = DAY LIGHT OPENING  
TYP. = TYPICAL  
D.O.W. = DOOR OPENING WIDTH  
D.O.H. = DOOR OPENING HEIGHT

SHEET	INDEX TO DRAWINGS	SUBSTRATE
1	INDEX TO DRAWINGS AND NOTES	
2	FRAMING ELEVATIONS - LIGHT MULLION WITH STEEL & GLAZING OPTIONS	STL/CONC/WOOD
3	FRAMING ELEVATIONS - LIGHT/HEAVY MULLION W/O STEEL	STL/CONC/WOOD
4	FRAMING ELEVATIONS - DOOR W/ TRANSOM INSIDE CG500 STOREFRONT	
5	FRAMING ELEVATIONS - DOOR W/O TRANSOM INSIDE STOREFRONT	
6	FRAMING DETAILS	STL/CONC/WOOD
7	FRAMING DETAILS	CONCRETE
8	FRAMING DETAILS	STEEL
9	ANCHOR TYPES AND DETAILS.	WOOD
10	ISOMETRIC FRAME DETAILS	
11	ISOMETRIC FRAME DETAILS	
12	PROFILE DRAWINGS	
13	BILL OF MATERIAL	



GLASS TYPE "A"  
DRY GLAZED

GLASS TYPE "A"  
WET GLAZED



GLASS TYPE "B"  
DRY GLAZED

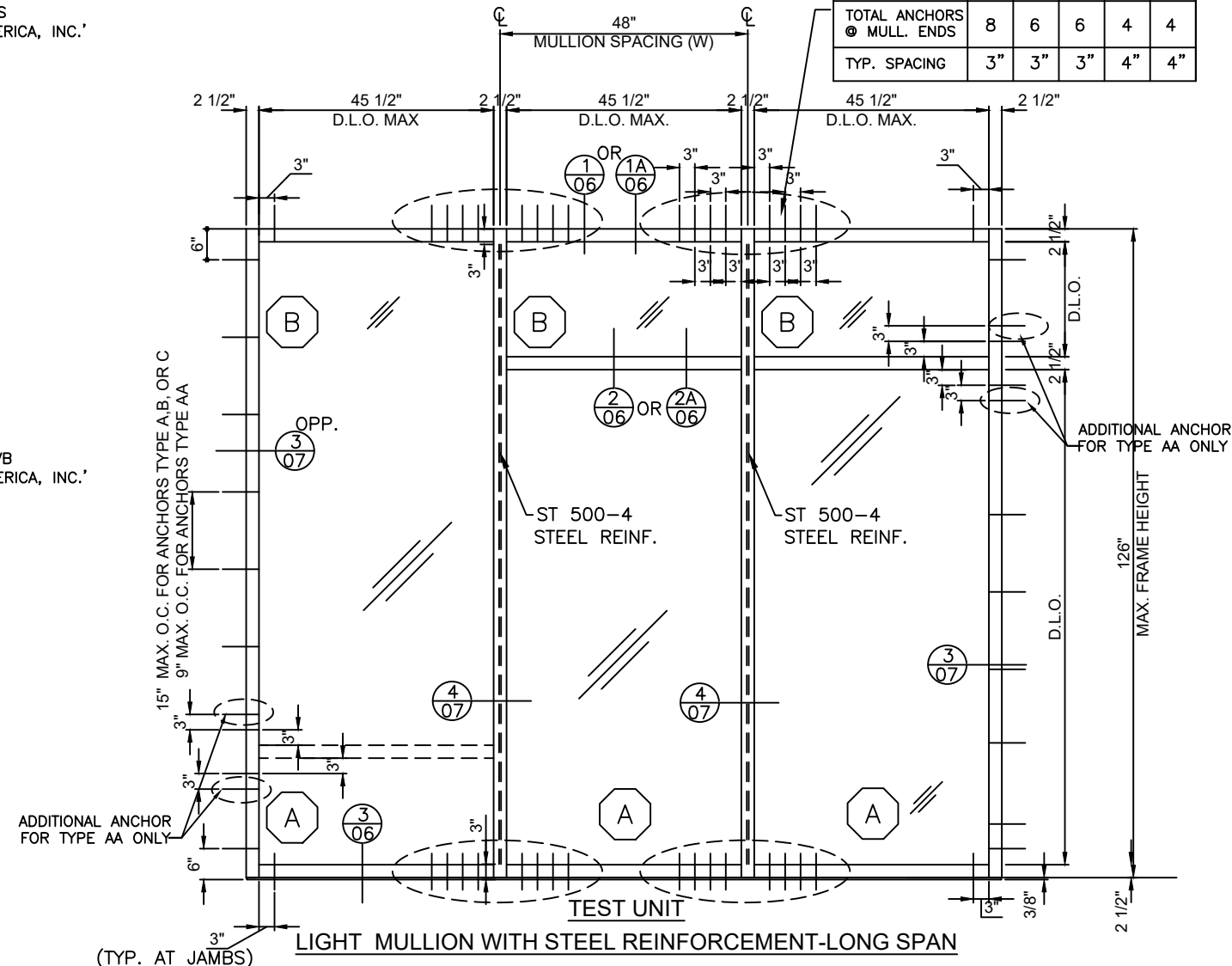
GLASS TYPE "B1"  
WET GLAZED

CG500 SYSTEM GLASS SCHEDULE				
GLASS TYPE	GLAZING METHOD	MAXIMUM DLO SIZE (INCHES)	MAXIMUM SQUARE FEET	MAXIMUM DESIGN LOAD (PSF)
A	DRY GLAZED & WET GLAZED	45-1/2 X 96	30.33	+70/-80
B	DRY GLAZED & WET GLAZED	45-1/2 X 22 1/2	7.11	+70/-80
	WET GLAZED	45-1/2 X 84	26.54	+65/-65
	WET GLAZED	45-1/2 X 96	30.33	+60/-60

NOTE: 1. D.L.O. DIMENSIONS OF GLASS NOT TO EXCEED MAXIMUM SIZE LISTED IN TABLE.  
2. DESIGN LOAD GOVERN BY TESTED LOAD.

- NOTES:
- GLASS SIZE = D.L.O. + 1 1/8"
  - HORIZONTAL MULLION (DETAIL 2/6 OR 2A/6 OPTIONAL) - OPTIONAL AT ANY BAY
  - HEAD (DETAIL 1/8 OR 1A/8 OPTIONAL) - OPTIONAL AT ANY BAY
  - MAX. ALLOWABLE DEFLECTION = L/180

ANCHOR CHART					
ANCHOR TYPE	A	B	C	D	E
TOTAL ANCHORS @ MULL. ENDS	8	6	6	4	4
TYP. SPACING	3"	3"	3"	4"	4"



LIGHT MULLION WITH STEEL REINFORCEMENT-LONG SPAN  
(TYP. AT JAMBS)

DESIGN LOAD CAPACITY-PSF		
DIMENSIONS (IN.)		LIGHT MULLION WITH STL REINF.
WIDTH (W)	FRAME HEIGHT	
48	126	+70/-80

**INSTRUCTIONS:**

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** GLASS TYPE SHOWN ON ELEVATIONS ARE AS TESTED. SEE CHART ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS TYPE AND SIZE.
- STEP 3** CHECK MULLION AND ANCHOR CAPACITY SEE SHEET 3 THRU 5. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.



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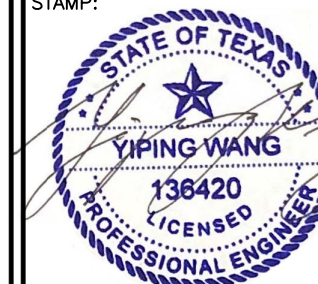
ENGINEER:



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DRAWING No:

**2 OF 13**

PRODUCT:

**CG500 STORE FRONT SYSTEM**  
W/ MULTIPLE INFILLS FOR HURRICANE ZONES (WET/DRY GLAZED)

**Resistor**  
PRODUCT SERIES

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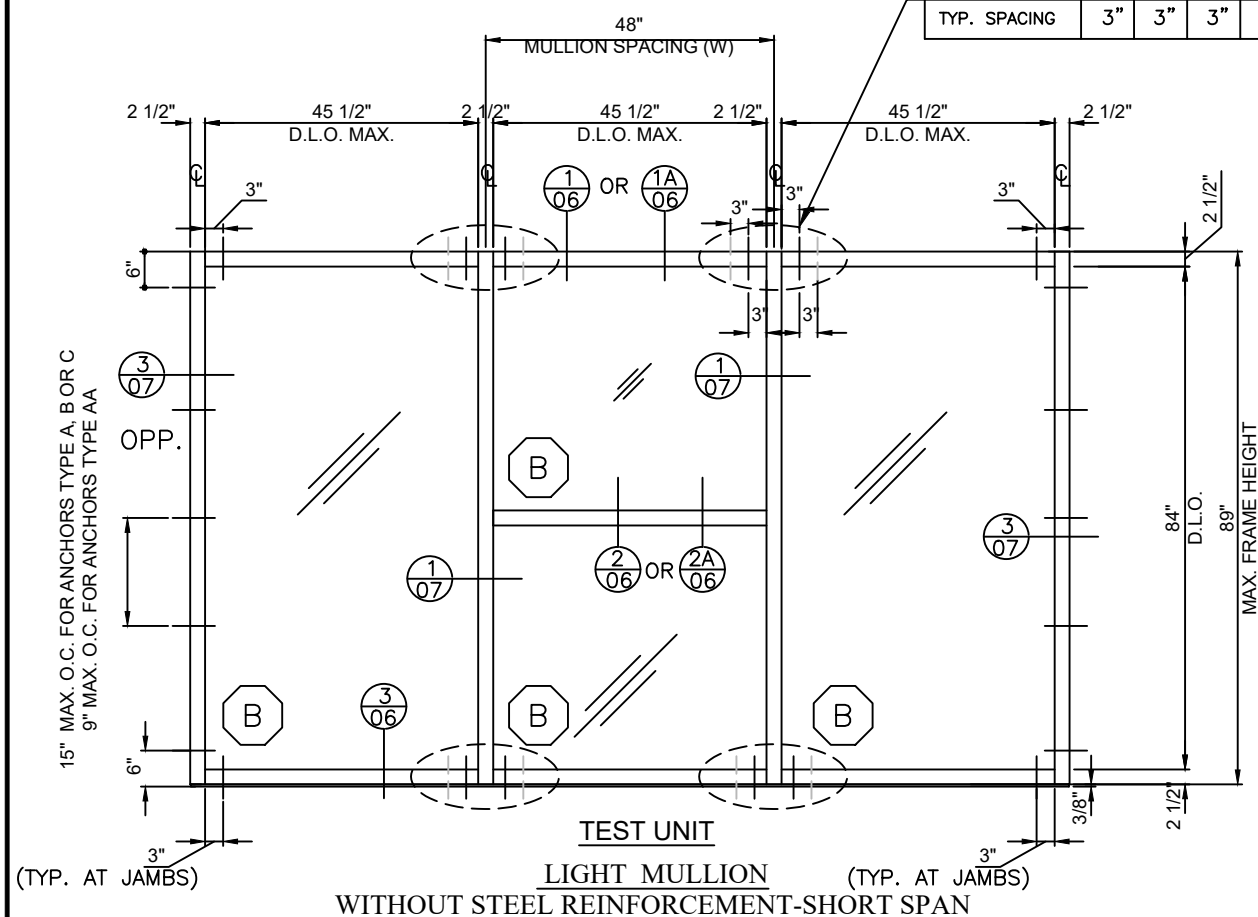
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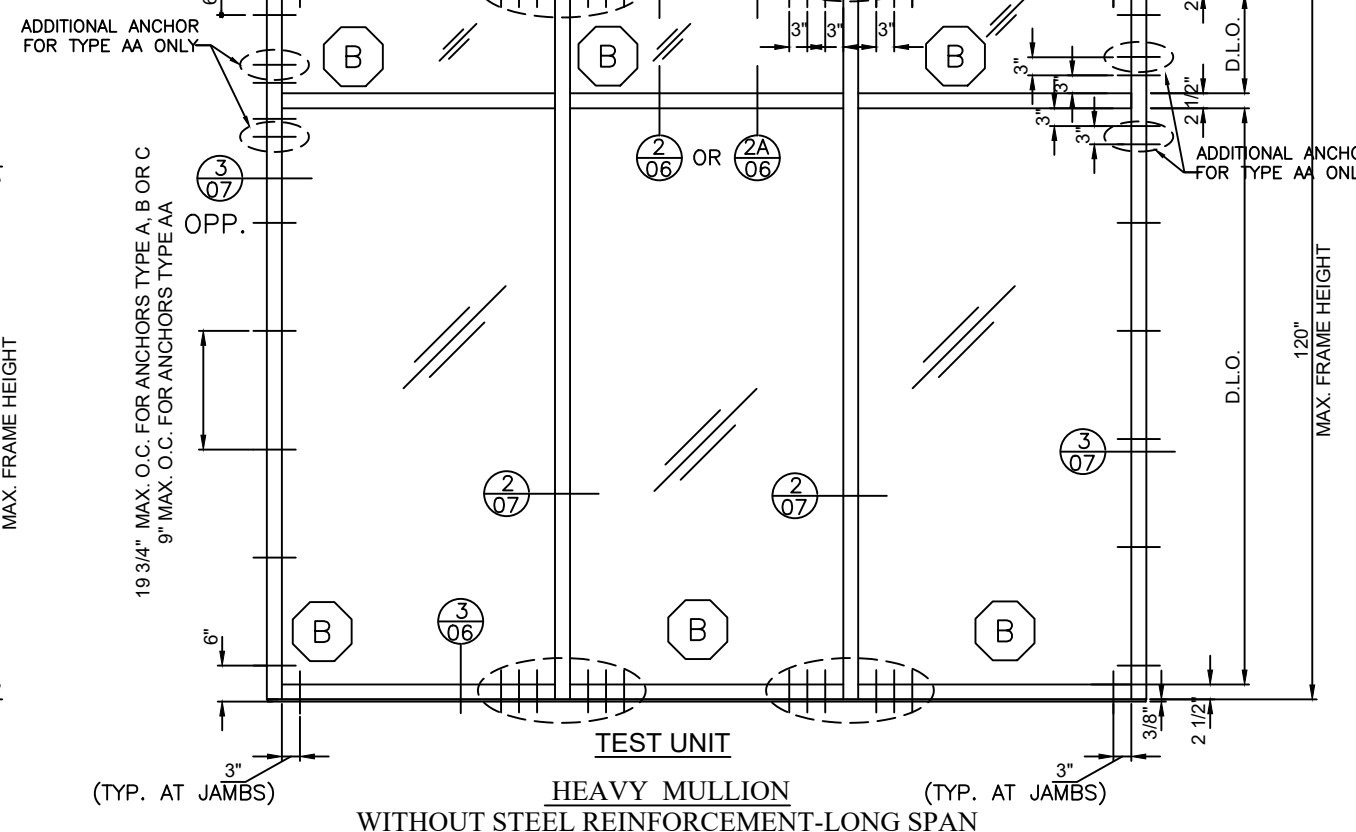
**3 OF 13**

ANCHOR CHART					
ANCHOR TYPE	A	B	C	D	E
TOTAL ANCHORS	4	4	4	2	2
● MULL. ENDS					
TYP. SPACING	3"	3"	3"	6"	6"

ANCHOR CHART					
ANCHOR TYPE	A	B	C	D	E
TOTAL ANCHORS	6	4	4	2	2
● MULL. ENDS					
TYP. SPACING	3"	3"	3"	6"	6"



DESIGN LOAD CAPACITY-PSF		
DIMENSIONS (IN.)		LIGHT MULLION WITHOUT REINF.
WIDTH (W)	FRAME HEIGHT	
48	89	+65/-65



DESIGN LOAD CAPACITY-PSF		
DIMENSIONS (IN.)		HEAVY MULLION WITHOUT REINF.
WIDTH (W)	FRAME HEIGHT	
48	120	+60/-60

NOTES:

1. GLASS SIZE = D.L.O. +1 1/8"
2. HORIZONTAL MULLION (DETAIL 2/6 OR 2A/6 OPTIONAL) - OPTIONAL AT ANY BAY
3. HEAD (DETAIL 1/8 OR 1/8 OPTIONAL) - OPTIONAL AT ANY BAY
4. MAX. ALLOWABLE DEFLECTION = L/180

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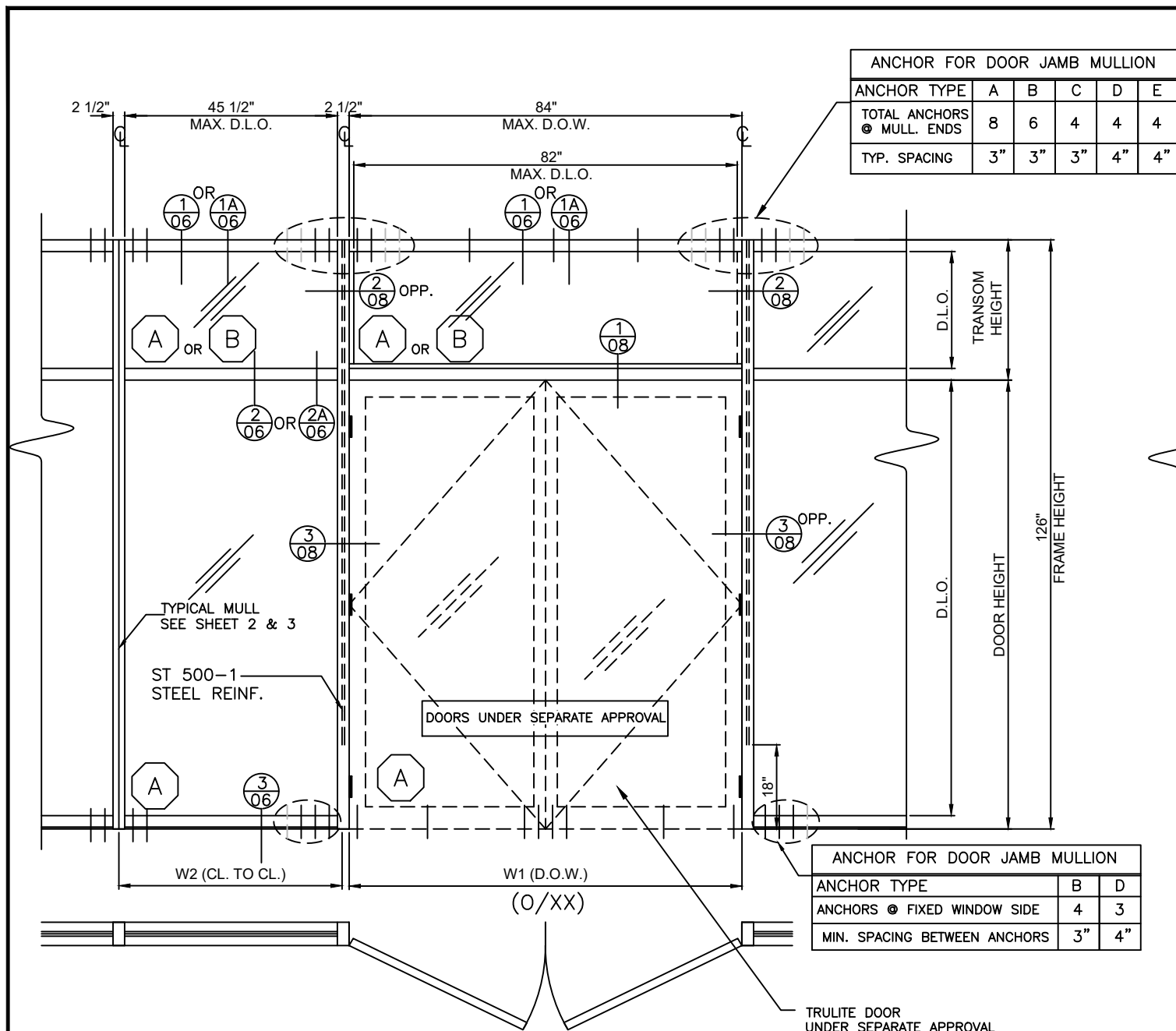
**4 OF 13**

ANCHOR FOR DOOR JAMB MULLION					
ANCHOR TYPE	A	B	C	D	E
TOTAL ANCHORS @ MULL. ENDS	8	6	4	4	4
TYP. SPACING	3"	3"	3"	4"	4"

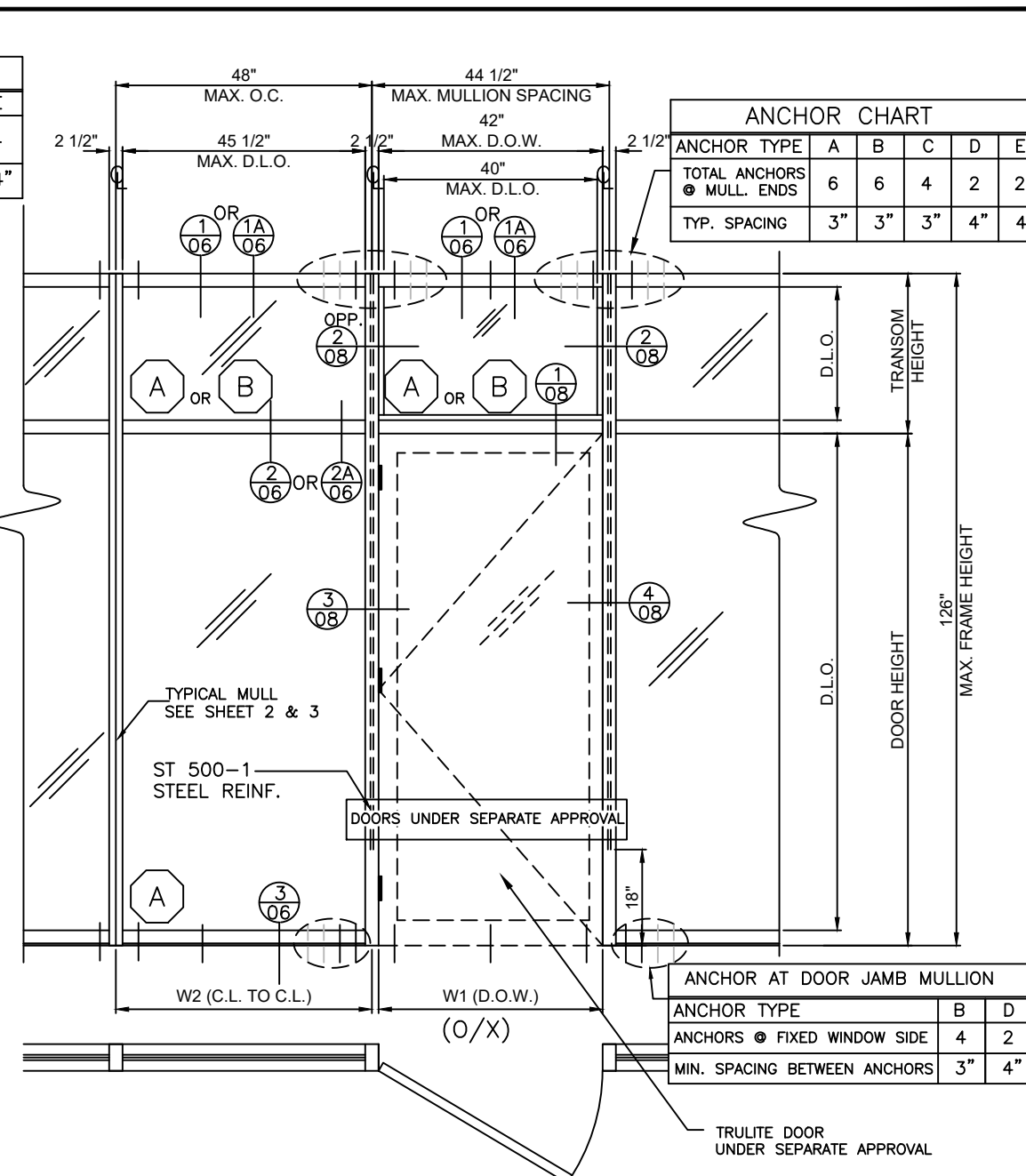
ANCHOR CHART					
ANCHOR TYPE	A	B	C	D	E
TOTAL ANCHORS @ MULL. ENDS	6	6	4	2	2
TYP. SPACING	3"	3"	3"	4"	4"

ANCHOR FOR DOOR JAMB MULLION			
ANCHOR TYPE	B	D	
ANCHORS @ FIXED WINDOW SIDE	4	3	
MIN. SPACING BETWEEN ANCHORS	3"	4"	

ANCHOR AT DOOR JAMB MULLION			
ANCHOR TYPE	B	D	
ANCHORS @ FIXED WINDOW SIDE	4	2	
MIN. SPACING BETWEEN ANCHORS	3"	4"	



**DOUBLE DOOR WITH TRANSOM & SIDELITES**



**SINGLE DOOR WITH TRANSOM & SIDELITES**

DOOR JAMB MULLION CAPACITY				
FRAME HEIGHT	SIDELITE WIDTH	DOOR WIDTH	DOOR HEIGHT	DESIGN LOAD
FH(IN.)	W2(IN.)	W1(IN.)	A(IN.)	(PSF)
126	48	84	84	64.7
			90	67.3
			96	70.0
126	48	72	84	69.8
			90	70.0
			96	70.0

DOOR JAMB MULLION CAPACITY				
FRAME HEIGHT	SIDELITE WIDTH	DOOR WIDTH	DOOR HEIGHT	DESIGN LOAD
FH(IN.)	W2(IN.)	W1(IN.)	A(IN.)	(PSF)
126	48	42	84	70.0
			90	70.0
			96	70.0

TRULITE DOOR UNDER SEPARATE APPROVAL

TRULITE DOOR UNDER SEPARATE APPROVAL



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PRODUCT SERIES

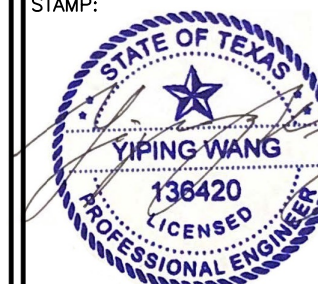
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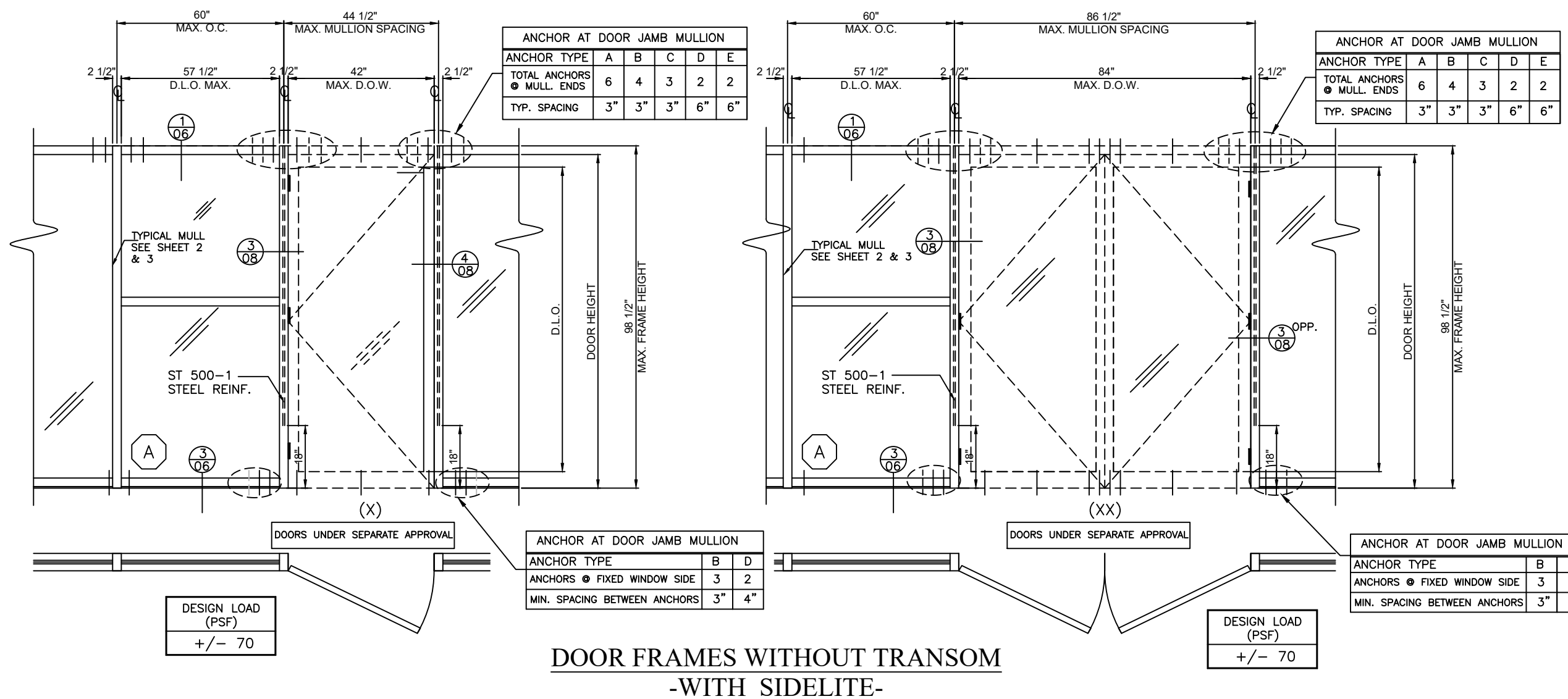
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**5 OF 13**

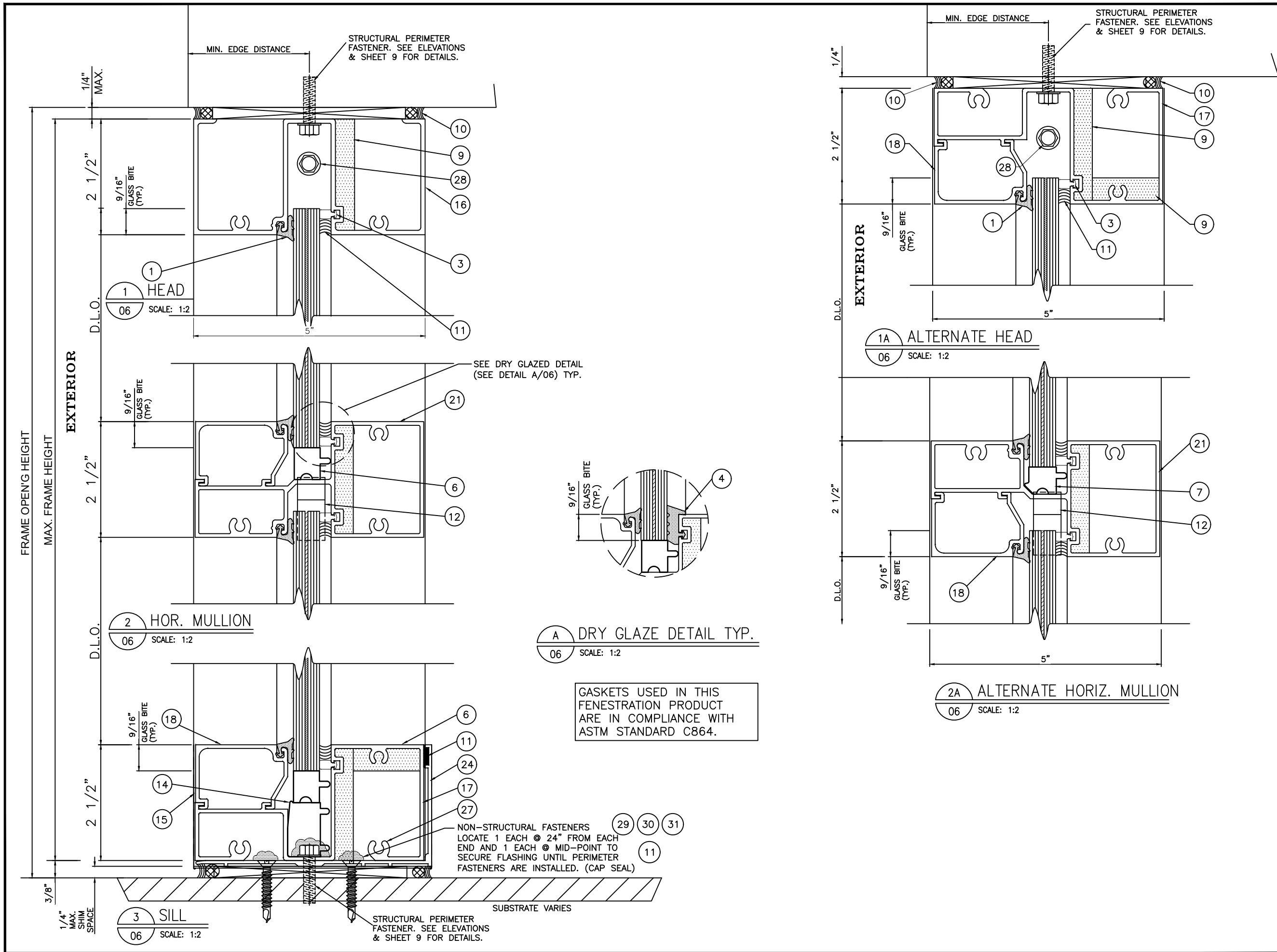


NOTES:

- THIS SYSTEM WORKS WITH APPROVED ENTRANCE DOORS.
- DOOR SERIES UNDER SEPARATE PRODUCT APPROVALS.  
THE LOWER DESIGN PRESSURE OF WINDOW WALL OR DOOR WILL GOVERN.
- FOR DOOR DETAILS REFER TO DOOR PRODUCT APPROVAL.

TEST PARAMETERS:

- DESIGN PRESSURE = +70/-70 PSF
- AIR TEST AT 6.24 PSF
- MAX. ALLOWABLE DEFLECTION = L/180



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STATE OF TEXAS  
YIPING WANG  
136420  
PROFESSIONAL ENGINEER  
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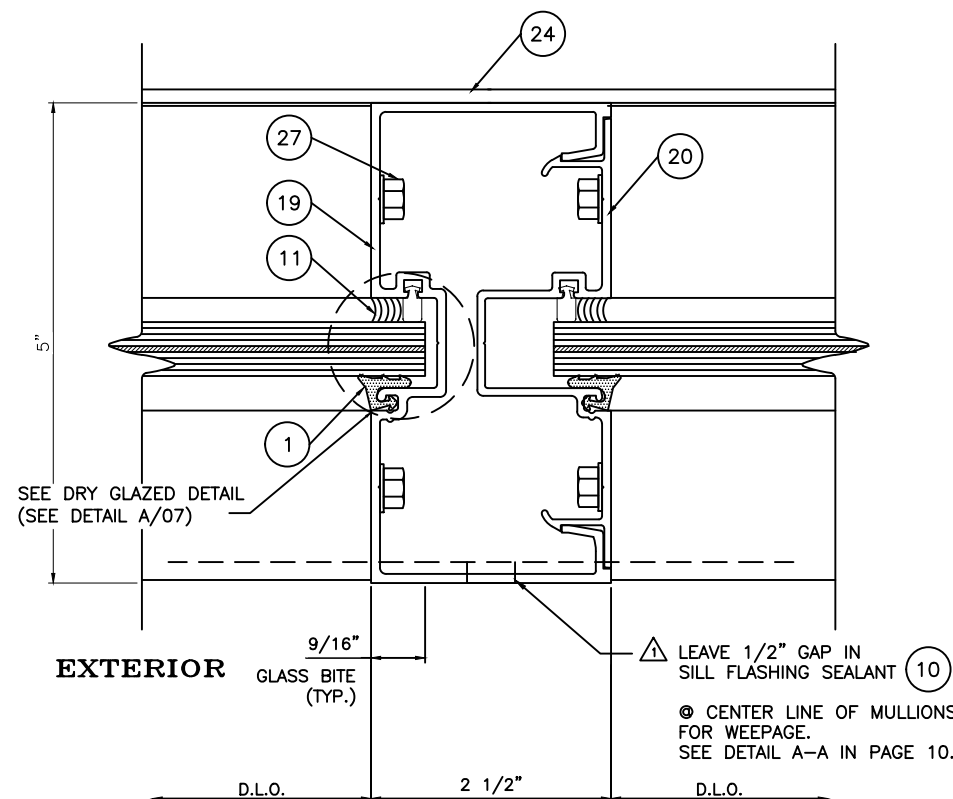
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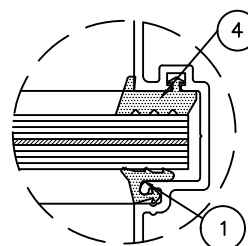
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**7 OF 13**

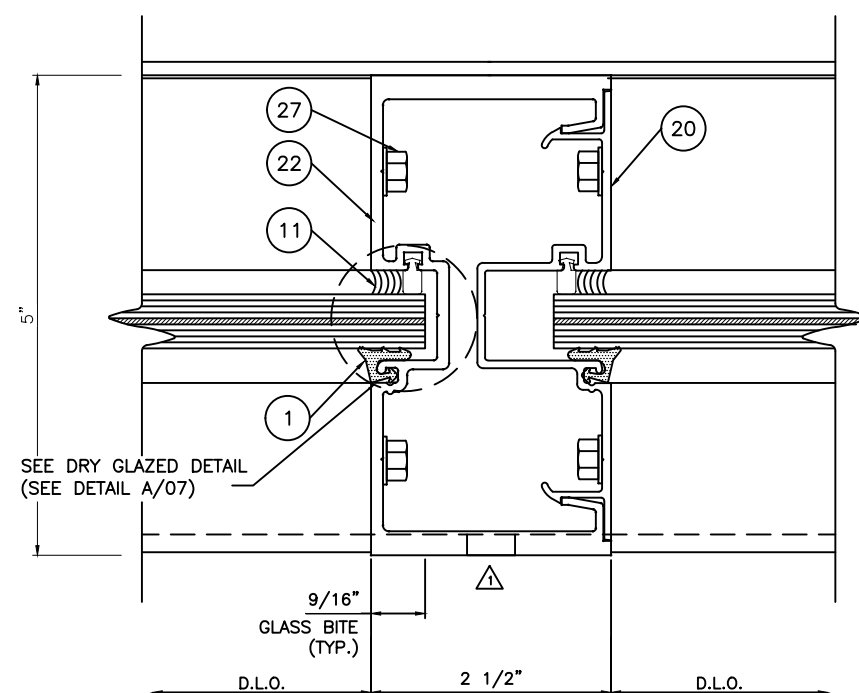


**1 VERT. MULLION**  
07 SCALE: 1:2

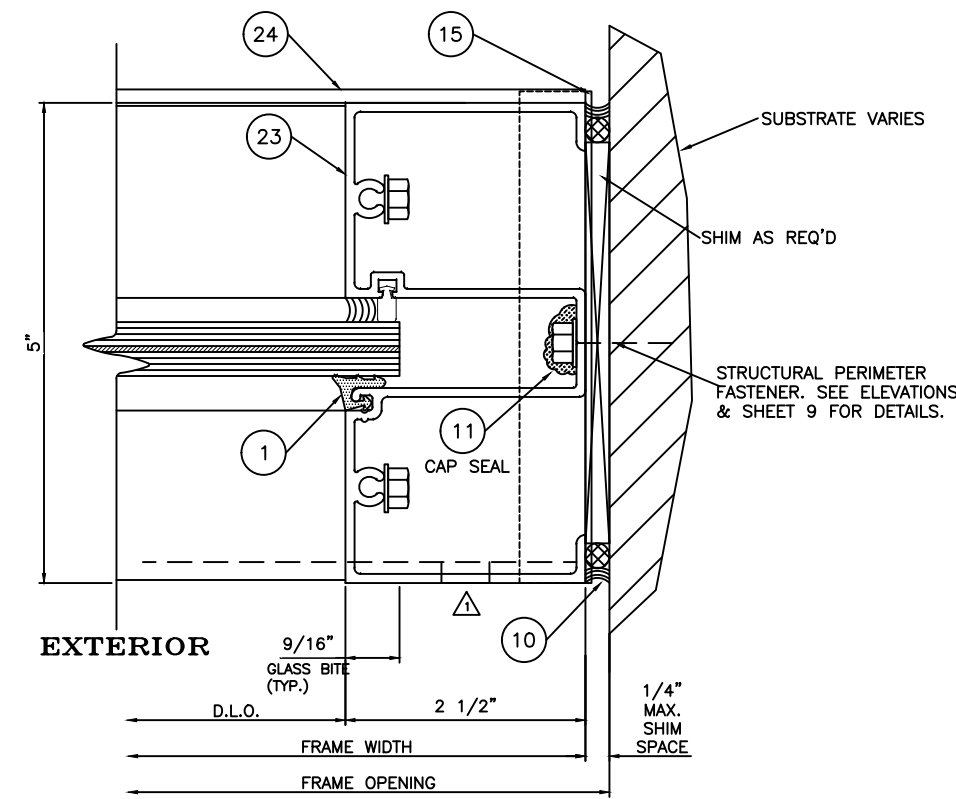


**A DRY GLAZE DETAIL TYP.**  
07 SCALE: 1:2

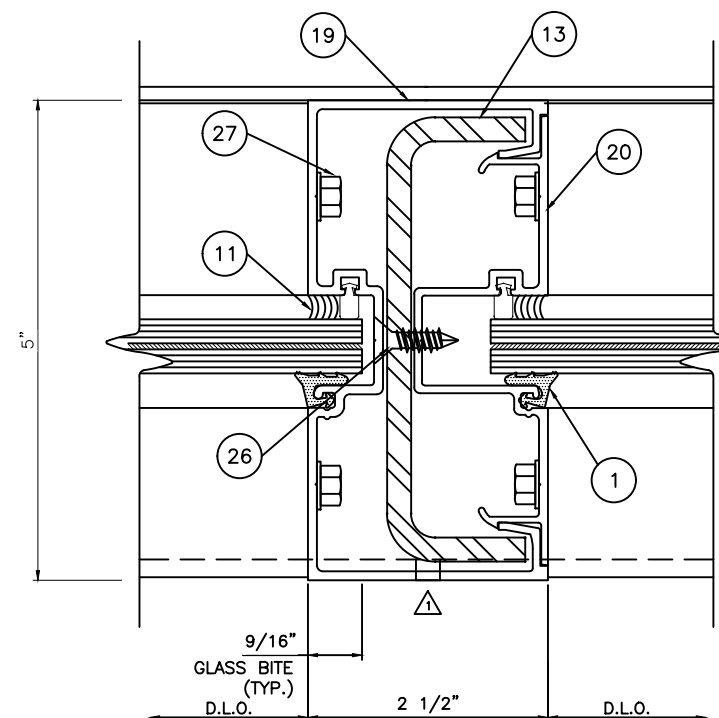
GASKETS USED IN THIS FENESTRATION PRODUCT ARE IN COMPLIANCE WITH ASTM STANDARD C864.



**2 HEAVY VERT. MULLION**  
07 SCALE: 1:2



**3 JAMB**  
07 SCALE: 1:2



**4 VERT. MULLION WITH STEEL**  
07 SCALE: 1:2

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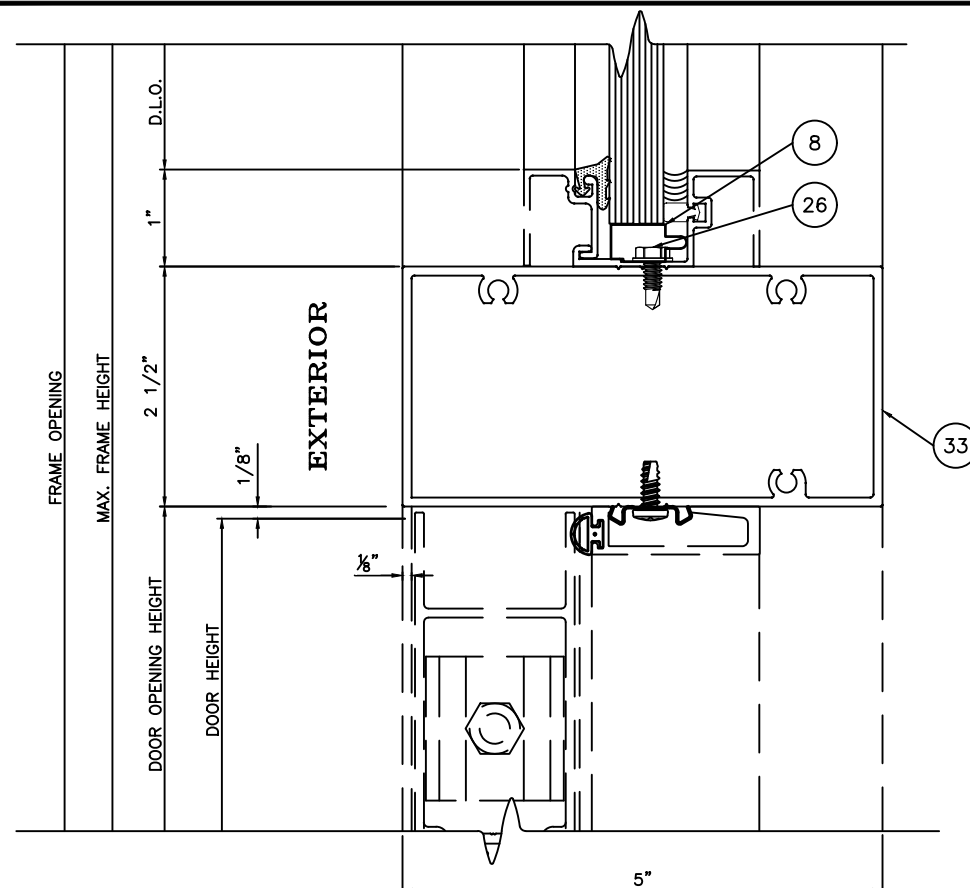
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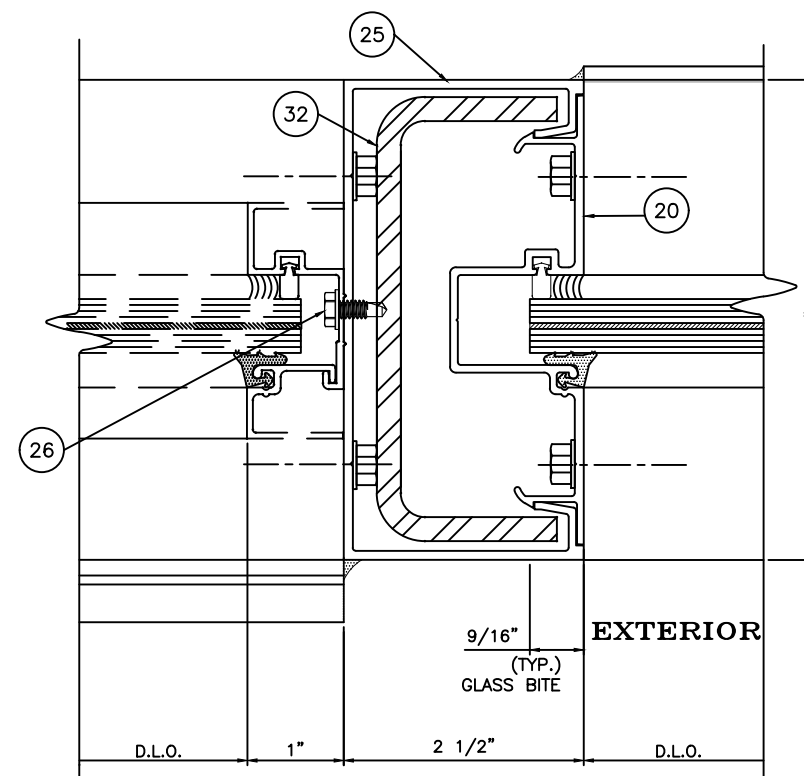
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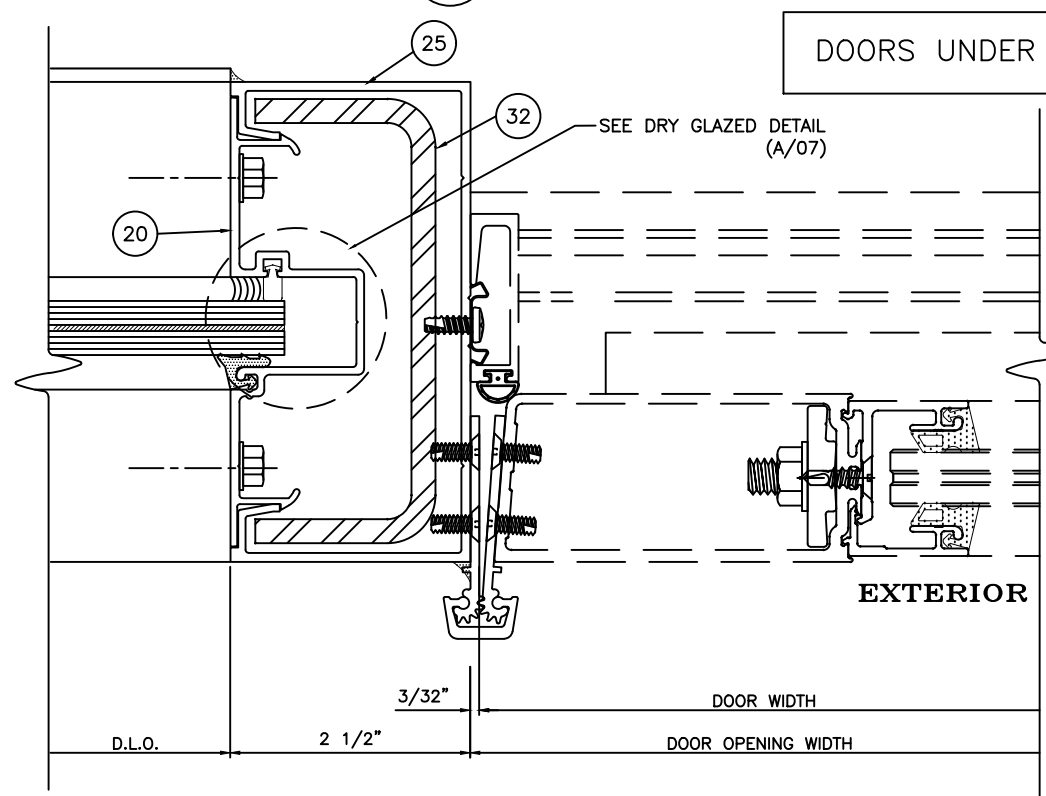
**8 OF 13**



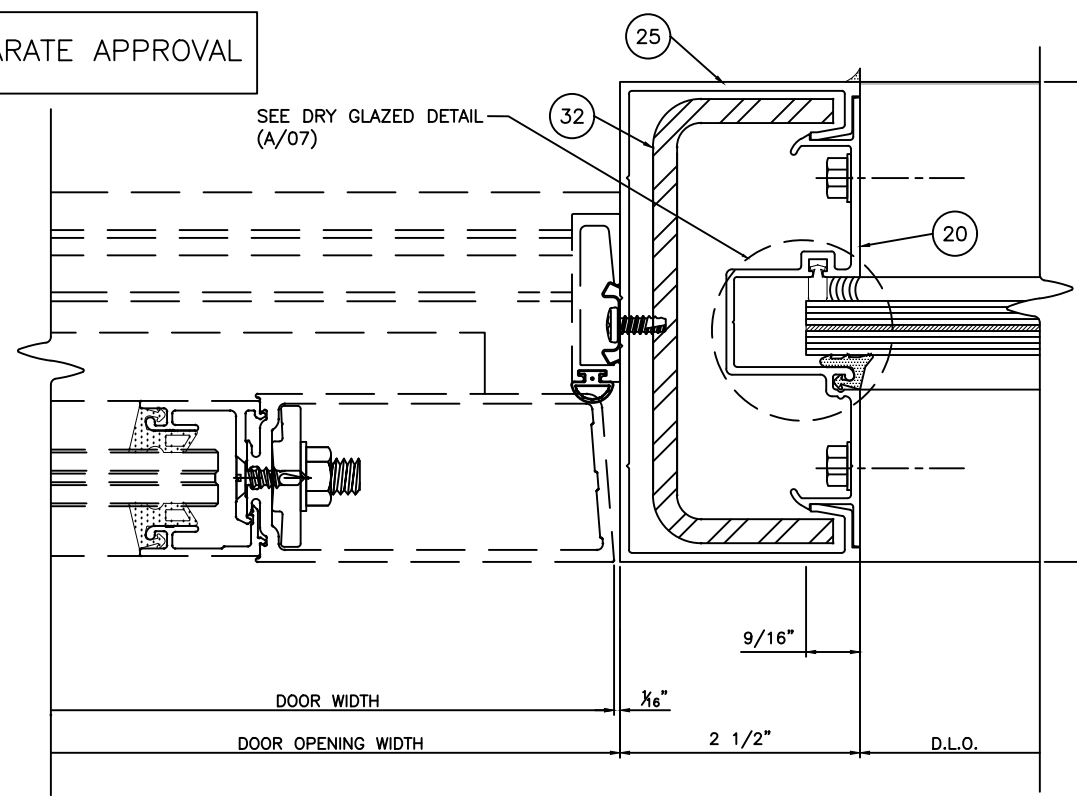
1 TRANSOM BAR FOR S.A.C.  
08 SCALE: 1:2



2 TRANSOM DOOR JAMB @ SIDELITE  
08 SCALE: 1:2



3 DOOR JAMB @ SIDELITE  
08 SCALE: 1:2



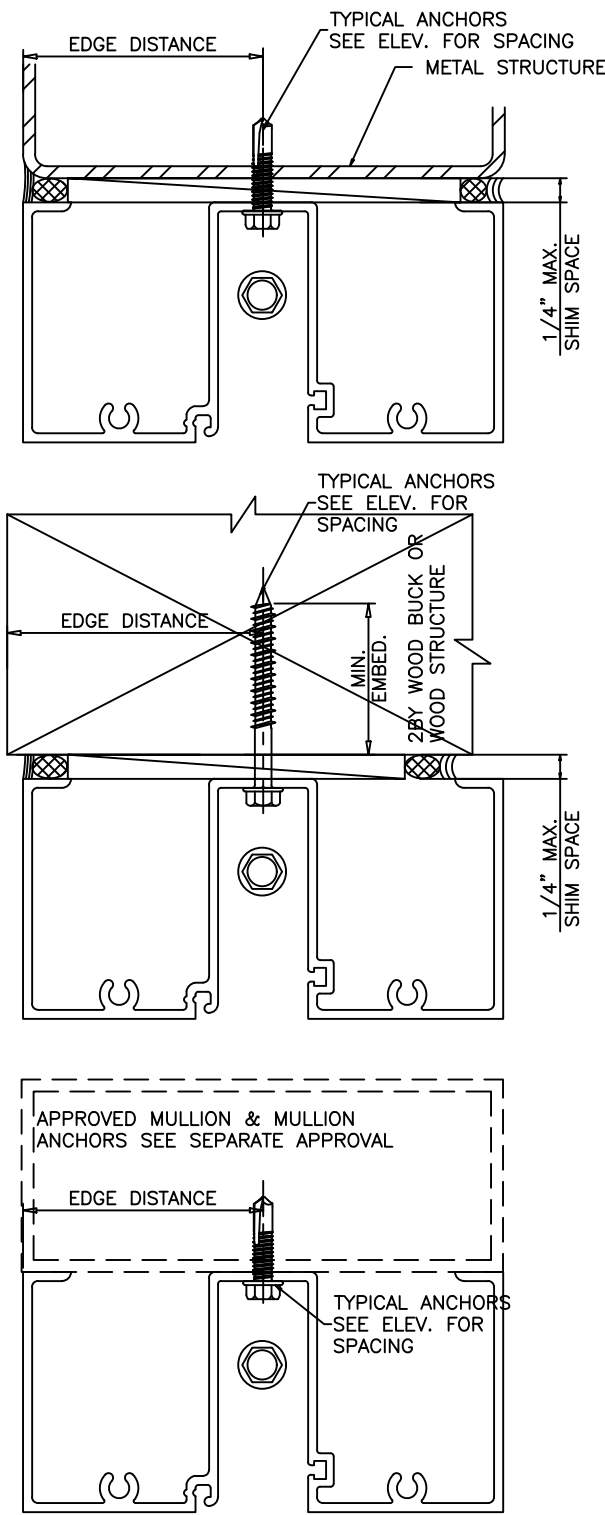
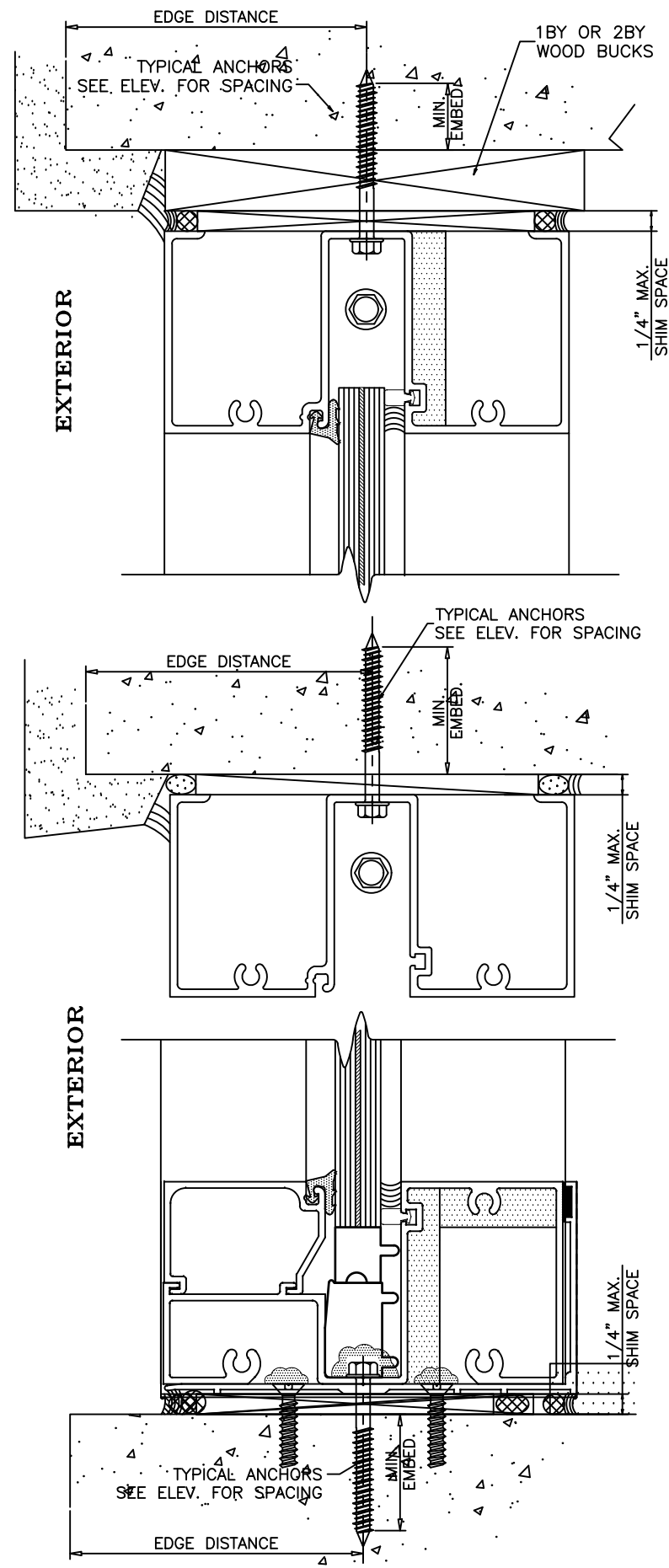
4 DOOR JAMB @ SIDELITE  
08 SCALE: 1:2

DOORS UNDER SEPARATE APPROVAL

SEE DRY GLAZED DETAIL (A/07)

SEE DRY GLAZED DETAIL (A/07)





WOOD BUCKS AND METAL STRUCTURES NOT BY TRULITE. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

**TYPICAL ANCHORS:**

- SEE ELEVATIONS FOR SPACING
- TYPE 'AA' 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) (JAMB ONLY)  
 1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)
- THRU 1x OR 2x WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD INTO CONC.
- THRU WOOD BUCK INTO HOLLOW BLOCK OR MASONRY  
 1-1/4" MIN. EMBEDMENT.
- TYPE 'A' 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)  
 1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)
- THRU 1X OR 2X WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD INTO CONC.
- THRU WOOD INTO CONCRETE (fc'=3000 PSI).  
 1-1/4" MIN. EMBEDMENT.
- TYPE 'B' 1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)  
 (INTO CONCRETE fc'=3000 PSI).  
 1/4" DIA. ULTRACON BY 'ELCO' (FU=177 KSI, FY=155 KSI)  
 (INTO CONCRETE FC'=2730 PSI).
- DIRECTLY INTO CONCRETE  
 1-1/2" MIN. EMBEDMENT
- TYPE 'C' #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)  
 INTO APPROVED MULLIONS  
 (1/8" THK. MIN.) INTO METAL STRUCTURE.
- STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)  
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
- TYPE 'D' 3/8" DIA. ITW LDT TAPCON
- DIRECTLY INTO CONCRETE  
 2" MIN. EMBEDMENT.
- TYPE 'D1' 3/8" DIA. ITW LDT TAPCON (JAMB ONLY)
- DIRECTLY INTO HOLLOW BLOCK  
 1-1/2" MIN. EMBEDMENT.
- TYPE 'E' 3/8"-16 BOLT (GRADE 2)  
 INTO METAL STRUCTURE
- STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)  
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**TYPICAL EDGE DISTANCE**

- INTO CONCRETE AND MASONRY = 2-1/2" MIN.  
 INTO WOOD STRUCTURE = 1" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.
- CONCRETE f'c = 3000 PSI MIN.  
 C-90 HOLLOW/FILLED BLOCK f'm = 2000 PSI MIN.

**SEALANTS:**

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH SILICONE  
 GLAZING OPTIONS 6A, 6B OR 6C.  
 FRAME CORNERS SEALED WITH DOW CORNING 795 OR EQUAL COMPATIBLE.



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403 WESTPARK CT SUITE 201  
 PEACHTREE CITY, GA 305269  
 p. 800-432-8132 | f. 954-724-2083

PRODUCT:  
**CG500 STORE FRONT SYSTEM**  
 W/ MULTIPLE INFILLS  
 FOR HURRICANE ZONES  
 (WET/DRY GLAZED)



REVN	DATE/REMARKS
REV.1	7/16/15 PER TDI COMMENTS
REV.2	09/30/21 UPDATE TO 2018

ENGINEER:



**MCY ENGINEERING, INC.**  
 GLAZING CONSULTANT

12781 MIRAMAR PARKWAY #301  
 MIRAMAR, FL 12781  
 P: (305) 271-0117  
 Email: MCY@MCYEngineering.com  
 www.MCYEngineering.com



October 12, 2021

PRODUCT CONTROL APPROVAL:

DRAWN: James	DRAWING No:
DATE: 9-30-21	<b>9 OF 13</b>
DWG: AD14-06	

PRODUCT:

**CG500 STORE  
FRONT SYSTEM**  
W/ MULTIPLE INFILLS  
FOR HURRICANE ZONES  
(WET/DRY GLAZED)

**Resistor**  
PRODUCT SERIES

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**10 OF 13**

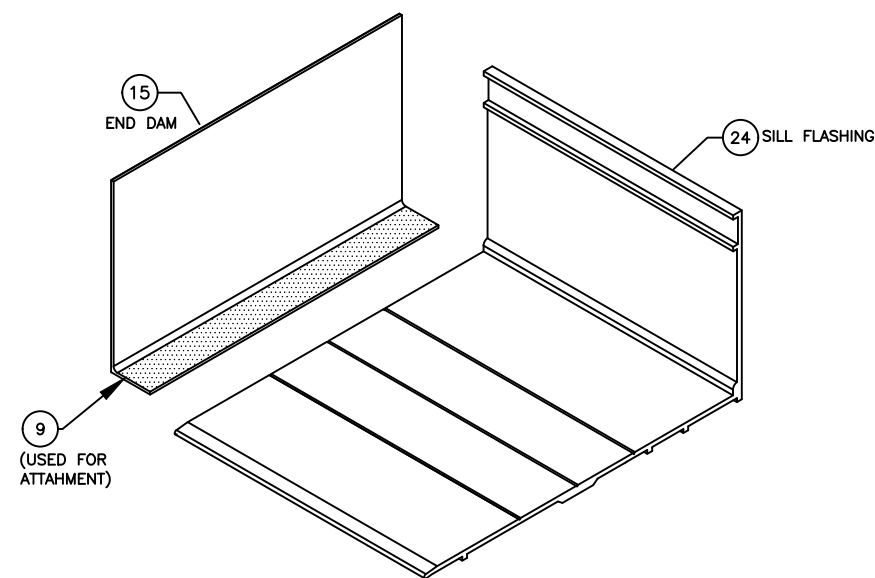


FIGURE-1  
SCALE: 6" = 1'-0"

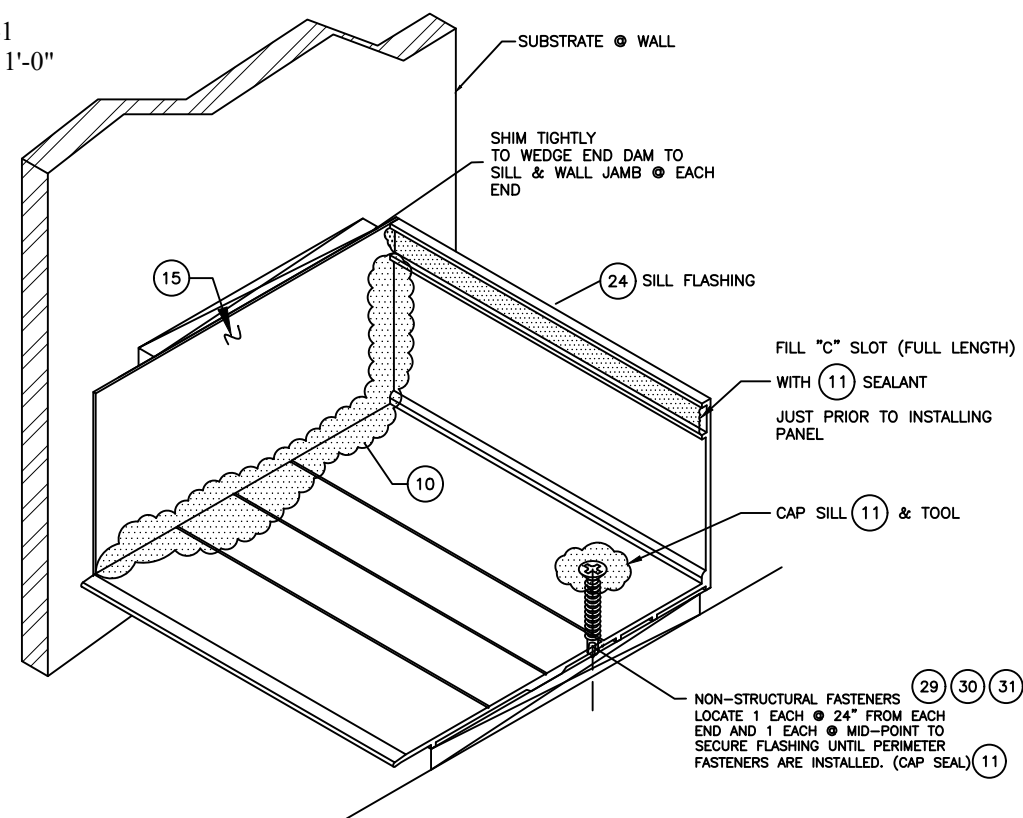


FIGURE-2  
SCALE: 6" = 1'-0"

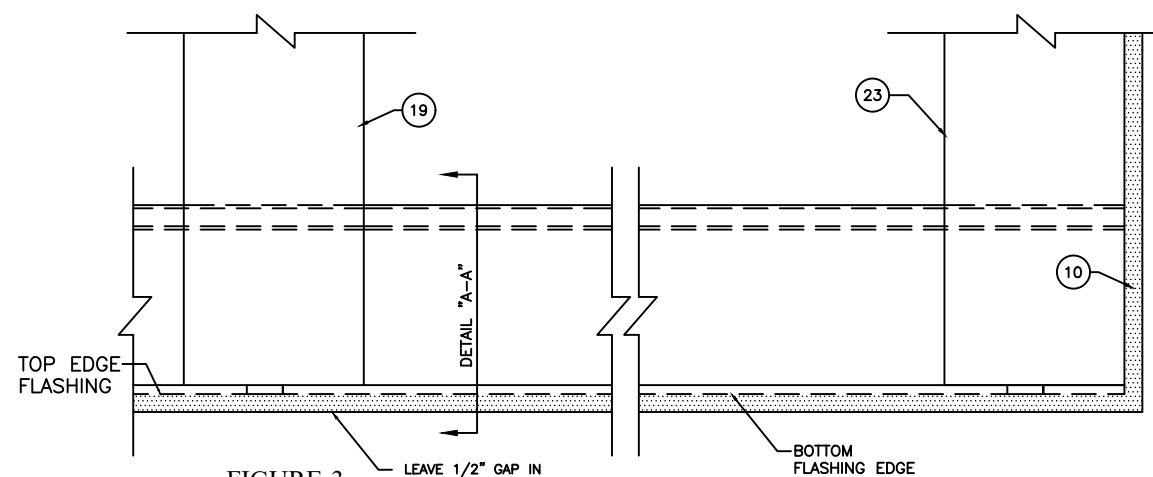
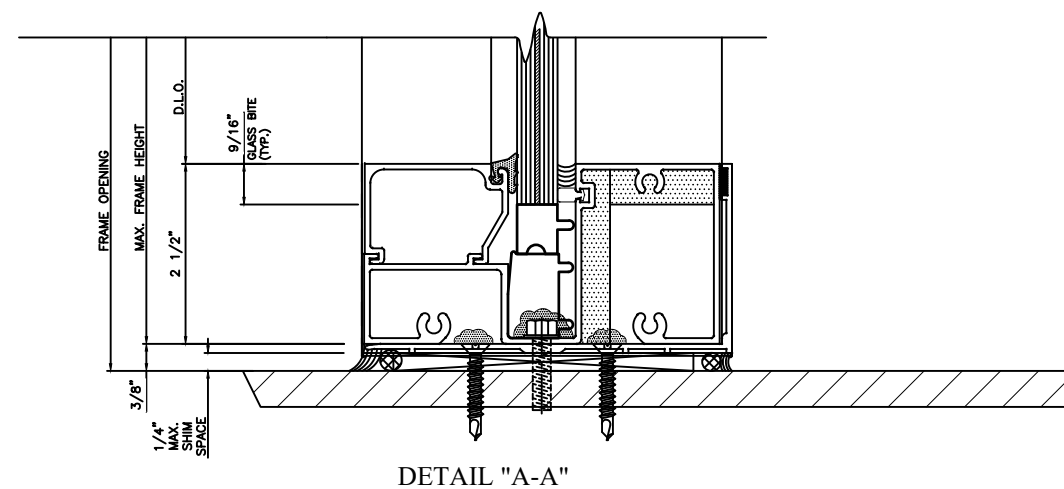


FIGURE-3  
SCALE: 6" = 1'-0"

LEAVE 1/2" GAP IN  
SILL FLASHING SEALANT  
@ CENTER OF MULLIONS  
FOR WEEPAGE BETWEEN TOP  
EDGE OF FLASHING & MULLION  
REF. DETAIL "A-A" BELOW



DETAIL "A-A"

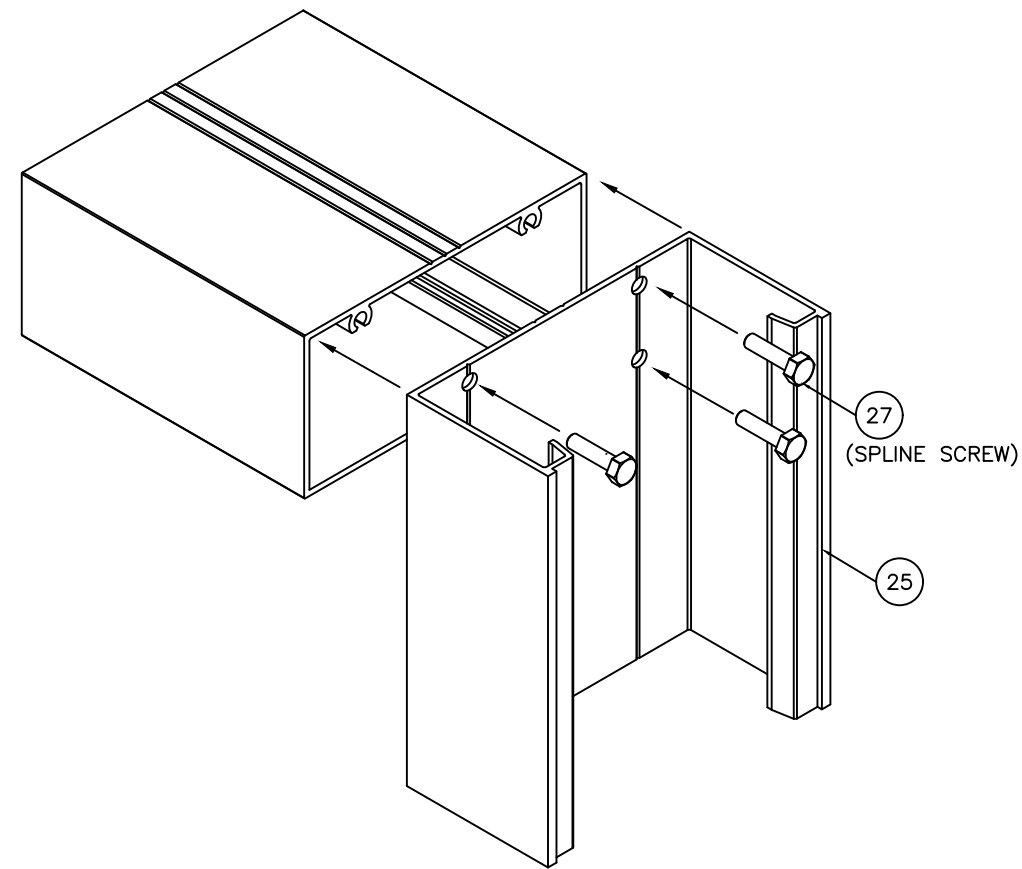


FIGURE: #2  
FRAME ASSEMBLY



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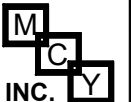
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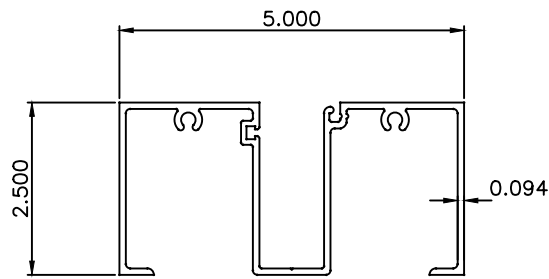


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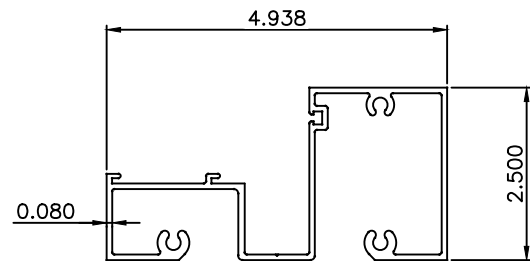
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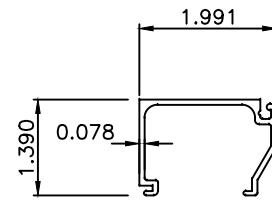
DRAWING No:  
**11 OF 13**



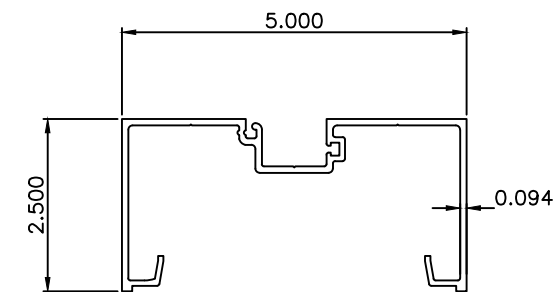
16 JAMB/HEAD



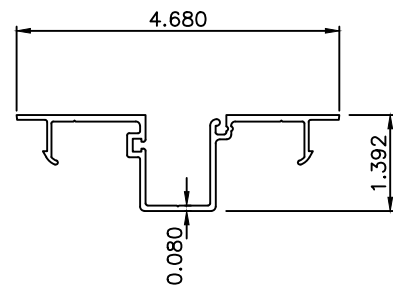
17 SILL/HEAD



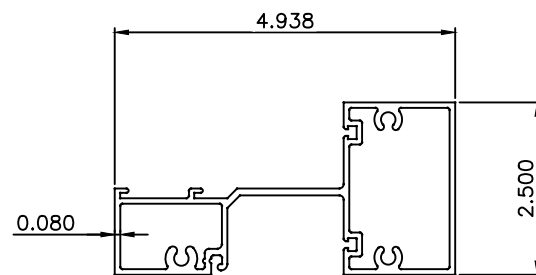
18 GLASS STOP



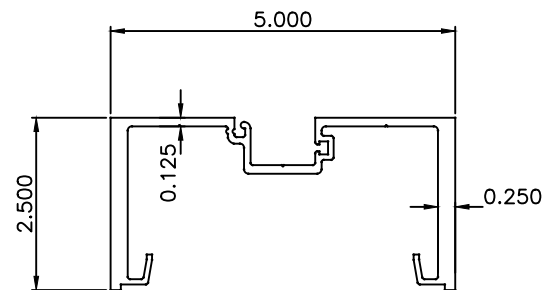
19 STD VERTICAL MULLION



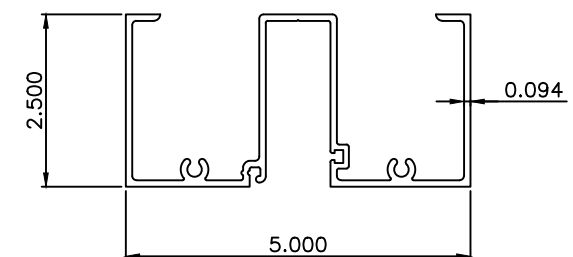
20 OPEN BACK MULLION FILLER



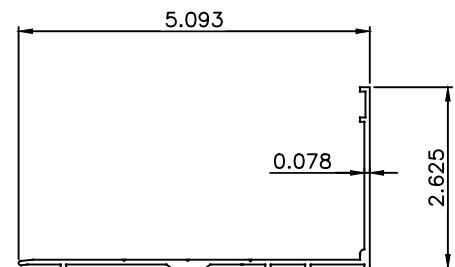
21 INTERMEDIATE HOR.



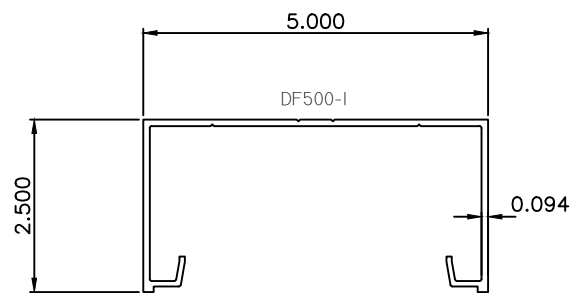
22 HVY VERT. MULLION



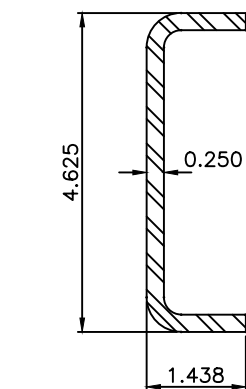
23 HEAD OR WALL JAMB



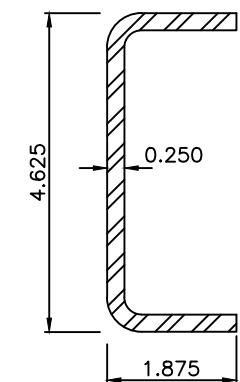
24 SUBSILL FLASHING



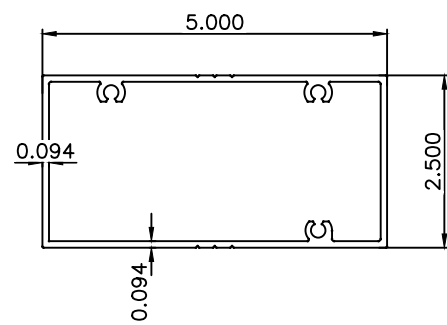
25 HINGE JAMB



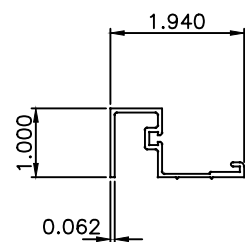
26 ST500-4 STL. REIN.



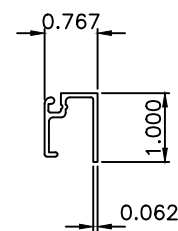
27 ST500-1 STL. REIN.



28 TRANSOM MULLION



29 TRANSOM SASH



30 9/16" IMPACT GL STOP

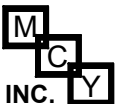
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**12 OF 13**



## BILL OF MATERIAL

ITEM NO.	PART #	DESCRIPTION	DIMENSIONS (INCHES)	MATERIAL	MANUFACTURER	NOTES
1	RG-1	EXTERIOR GLAZING GASKET	0.120 SPACE	EPDM, DURO 65 +/- 5, SHORE-A	VARIES	
2	RG-5	BULB GASKET @ DOOR STOP	0.377 X 0.420	EPDM, DURO 60 +/- 5, SHORE-A	VARIES	
3	RG-8	INTERIOR SPACER GASKET	0.375 X 0.194	EPDM, DURO 75 +/- 5, SHORE-A	VARIES	
4	RG-13	INTERIOR GASKET - DRY GLAZED	0.399 X 0.905	EPDM, DURO 65 +/- 5, SHORE-A	VARIES	
5	RW500-1	W-BLOCK	0.125 X 0.500 X 2.500	EPDM, DURO 70 +/- 5, SHORE-A	VARIES	
6	RSB-11	SETTING BLOCK @ SILL & HORIZONTAL	0.787 X 0.687	EPDM, DURO 85 +/- 5, SHORE-A	VARIES	2 / LITE
7	RSB-12	SETTING BLOCK @ INVERTED HORIZONTAL	0.907 X 0.587	EPDM, DURO 85 +/- 5, SHORE-A	VARIES	2 / LITE
8	RSB-15	SETTING BLOCK @ TRANSOM	0.788 X 0.387	EPDM, DURO 85 +/- 5, SHORE-A	VARIES	2 / LITE
9	GT-1	JOINT SEALANT TAPE	0.500 X 0.125 X VARIES	BUTYL	SCHNEE-MOREHEAD	
10	795	SILICONE - PERIMETER SEALANT	FILL SPACE	SILICONE	DOW CORNING	AT PERIMETER
11	995	SILICONE -GLASS TO METAL	FILL SPACE	SILICONE	DOW CORNING	GLASS TO METAL
12	WD450	WATER DEFLECTOR	1.358 X 0.585 X 0.040	ABS PLASTIC	TRULITE	AT EACH END INTERMEDIATE HORIZONTAL
13	ST500-4	STEEL REINFORCEMENT	4.625 X 1.437 X 0.250	A36 STEEL	VARIES	STEEL REINFORCEMENT
14	RSC500-1	SETTING CHAIR	1.170 X 0.902	EPDM, DURO 85 +/- 5, SHORE-A	TRULITE	2 / LITE AT SILL
15	ED500	END DAM	5.14 X 2.665 X 0.040	ABS PLASTIC	TRULITE	
16	CG500-11	JAMB/HEAD	2.500 X 5.000 X 0.094	6063-T6 ALUMINUM	TRULITE	
17	CG500-2	SILL OR HEAD	2.500 X 4.938 X .080	6063-T6 ALUMINUM	TRULITE	
18	CG500-3	GLASS STOP	1.250 X 1.624 X .078	6063-T6 ALUMINUM	TRULITE	
19	CG500-4	STD. VERTICAL MULLION	2.500 X 5.000 X .094	6063-T6 ALUMINUM	TRULITE	
20	CG500-5	OPEN BACK MULLION FILLER	.721 X 4.680 X .080	6063-T6 ALUMINUM	TRULITE	
21	CG500-6	INTERMEDIATE HORIZONTAL	2.500 X 4.938 X .080	6063-T6 ALUMINUM	TRULITE	
22	CG500-7	HEAVY VERTICAL MULLION	2.500 X 5.000 X .250	6063-T6 ALUMINUM	TRULITE	
23	CG500-11	HEAD OR WALL JAMB	2.500 X 5.000 X .094	6063-T6 ALUMINUM	TRULITE	
24	CG500-12	SUBSILL FLASHING	2.62 X 5.093 X .062	6063-T6 ALUMINUM	TRULITE	
25	DF500-1	HINGE JAMB	2.500 X 5.000 X 0.094	6063-T6 ALUMINUM	TRULITE	
26	FAS10-1	FASTENER	#10 X 3/4" PFH TEK	STEEL	VARIES	
27	FAS14-2	FASTENER	#14 X 1 HHSTS	STEEL	VARIES	TYPICAL SPLINE SCREW
28	FAS25-1	FASTENER	#10-24 X3/8 HH	STEEL	VARIES	ATTACH ST500-4 TO CG500-4
29	FASTENER	ATTACH ITEM # 21 TO CONCRETE SUBSTRATE	#12 X 2" FHP TAPCON	STEEL	VARIES	1" MINIMUM EMBEDMENT NON-STRUCTURAL
30	FASTENER	ATTACH ITEM # 21 TO WOOD SUBSTRATE	#12 X 2" FHP WD SCREW	STEEL	VARIES	1" MINIMUM EMBEDMENT NON-STRUCTURAL
31	FASTENER	ATTACH ITEM # 21 TO STL SUBSTRATE	#12 X 1-1/2" S.D. FHP	STEEL	VARIES	1" LONG NON-STRUCTURAL
32	ST500-1	STEEL REINFORCEMENT	4.625 X 1.875 X .250	STEEL	VARIES	
33	DF500-2	TRANSOM MULLION	2.000 X 5.000 X 0.094	6063-T6 ALUMINUM	TRULITE	
34	DF106	TRANSOM SASH	1.000 X 1.940 X 0.062	6063-T6 ALUMINUM	TRULITE	
35	DF107	9/16" IMPACT GL STOP	1.000 X 0.767 X 0.062	6063-T6 ALUMINUM	TRULITE	



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