

Coastline Casement IZ4

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF CASEMENT/CASEMENT OR CASEMENT WITH OTHER F.B.C. APPR'D WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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

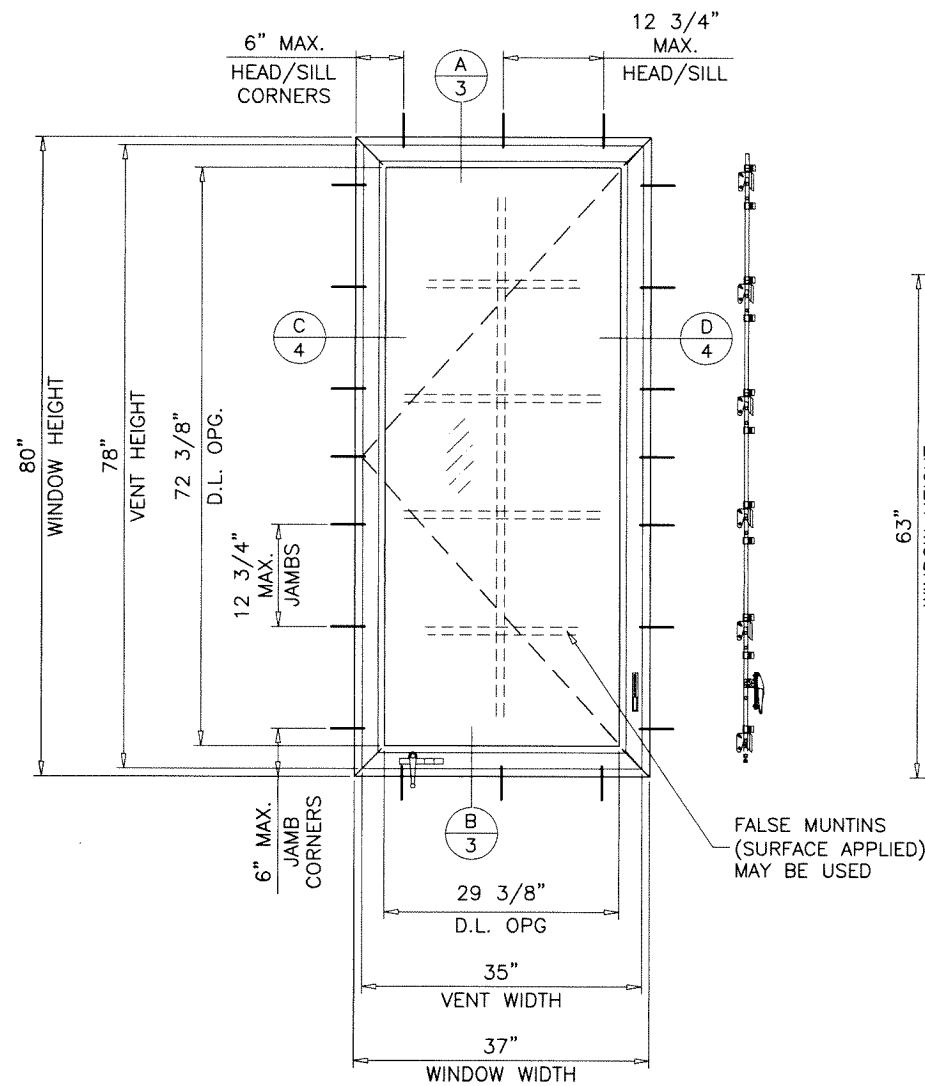
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

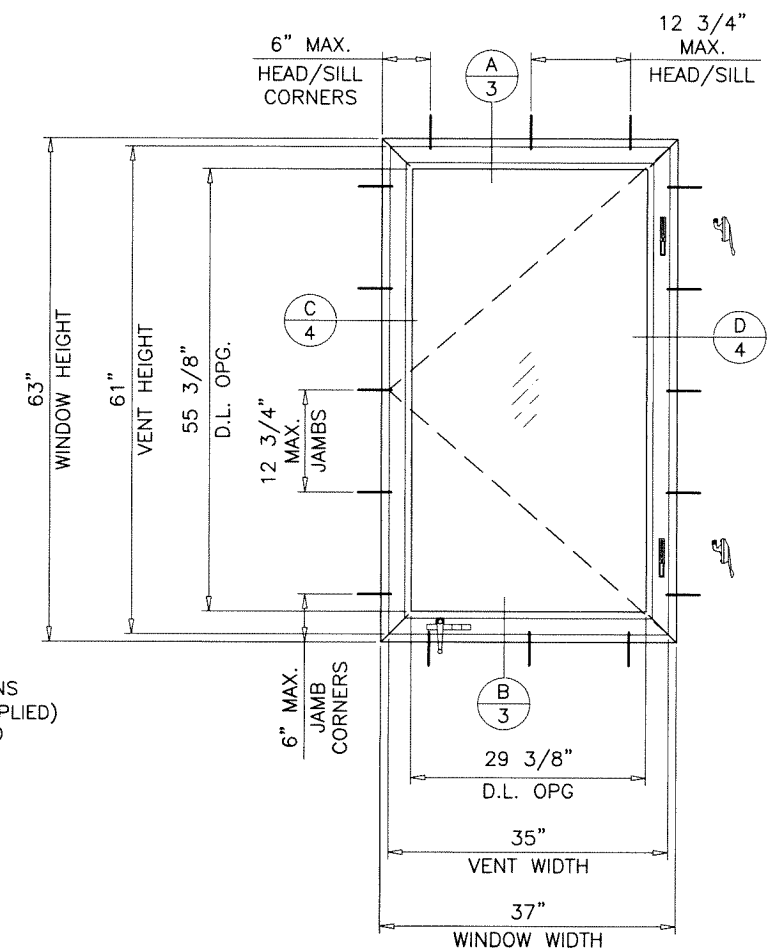
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.



TYPICAL ELEVATION
MULTI POINT LOCK



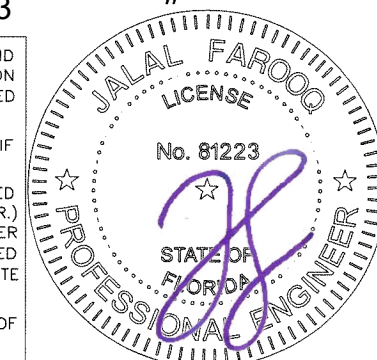
TYPICAL ELEVATION
TWO POINT LOCKS

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Sealed: 7/26/2023

FL #34015

- A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\20-72F-MWD

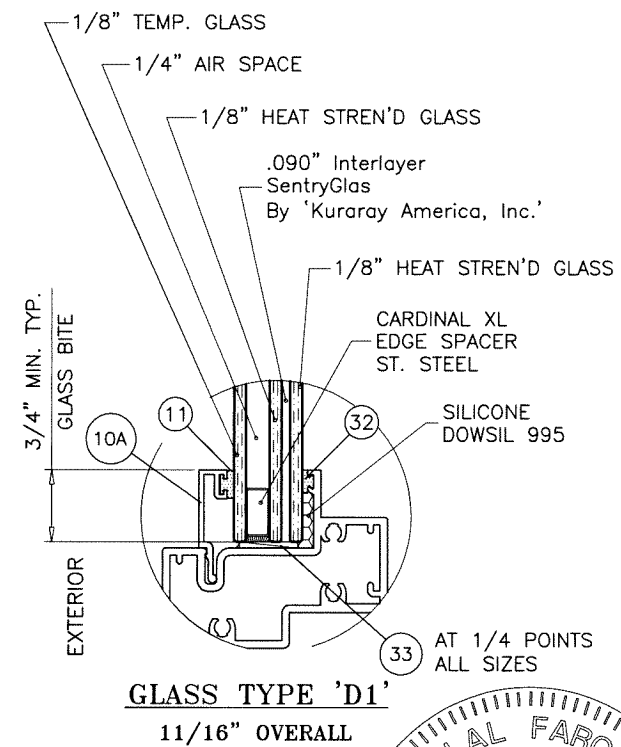
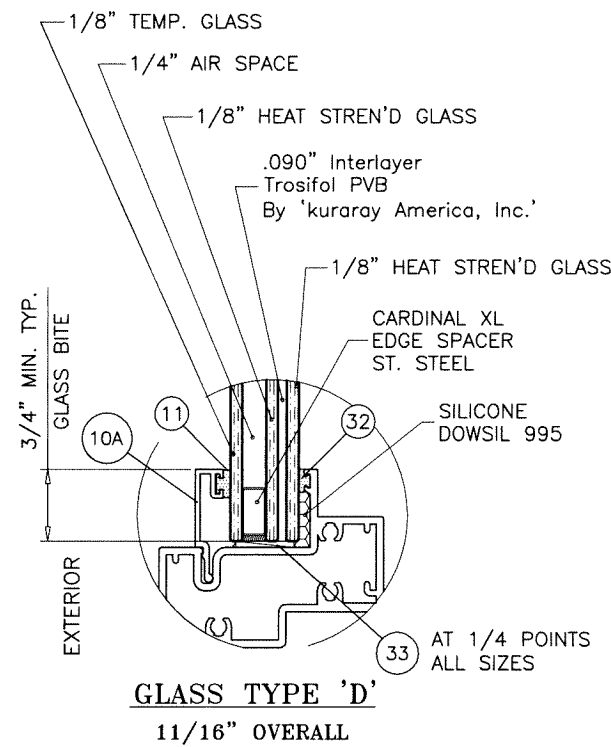
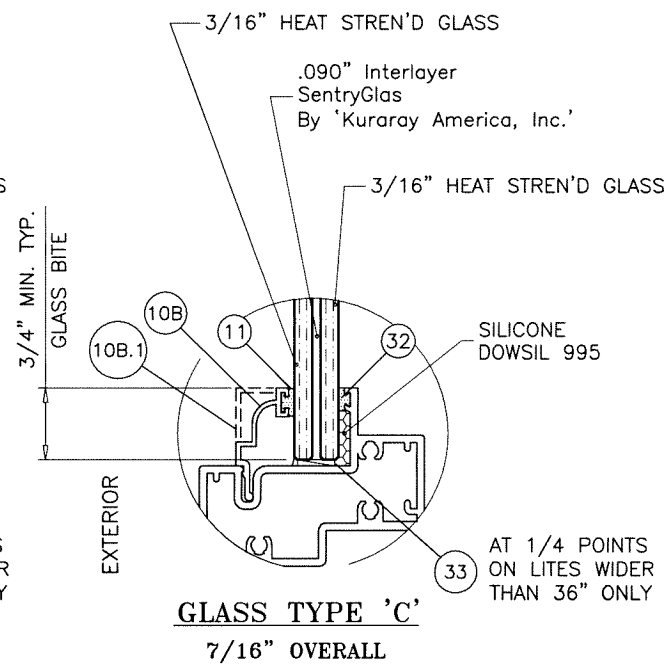
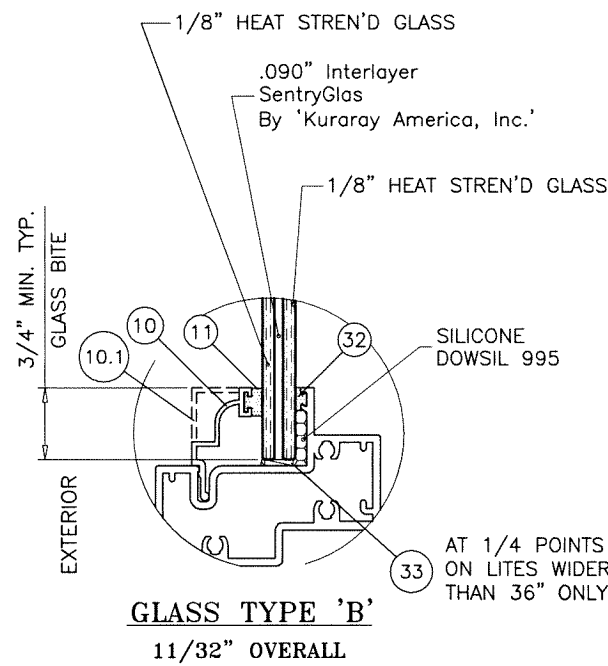
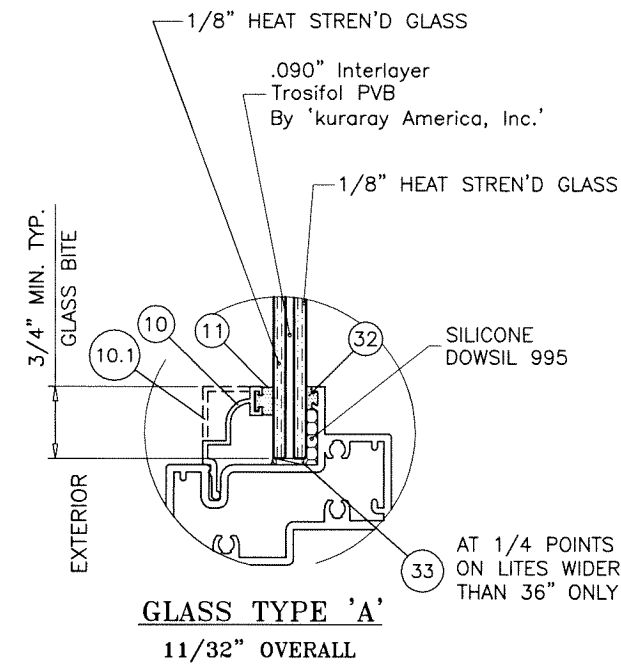
Coastline Casement IZ4
MARVIN
 PO Box 100, 401 State Ave. N.
 Warroad, MN. 56763
 Tel. (218) 386-1430 Ext. 2143

no	date	description
A	07.25.23	UPDATED TO 2023 FBC

date: 10-03-20
 scale: 1/2"=1'-0"
 dr. by: TARIQ
 chk. by:
 drawing no. 20-72F
 sheet 1 of 6

DESIGN LOAD CAPACITY - PSF									
WINDOW DIMS.		2 POINT LOCKS		MULTI POINT LOCK					
		GLASS TYPES 'A', 'B', 'C' & 'D'		GLASS TYPE 'A'		GLASS TYPES 'B', 'C' & 'D1'		GLASS TYPE 'D'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
26-1/2"	38-3/8"	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
32"		70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37"		70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
42"		70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
26-1/2"	50-5/8"	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
32"		70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37"		70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
42"		70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
26-1/2"	63"	70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
32"		70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
37"		70.0	70.0	70.0	70.0	80.0	80.0	80.0	80.0
42"		-	-	-	-	80.0	80.0	-	-
26-1/2"	74-1/4"	54.4	54.4	54.4	54.4	80.0	80.0	62.2	62.2
32"		-	-	-	-	80.0	80.0	-	-
37"		-	-	-	-	80.0	80.0	-	-
26-1/2"	80"	43.2	43.2	43.2	43.2	80.0	80.0	49.3	49.3
32"		-	-	-	-	80.0	80.0	-	-
37"		-	-	-	-	80.0	80.0	-	-
26-1/2"	84"	37.1	37.1	37.1	37.1	80.0	80.0	42.4	42.4
32"		-	-	-	-	77.6	77.6	-	-

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		3 POINT LOCKS			
		GLASS TYPE 'B'		GLASS TYPES 'C' & 'D1'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
26-1/2"	38-3/8"	80.0	80.0	80.0	80.0
32"		80.0	80.0	80.0	80.0
37"		80.0	80.0	80.0	80.0
42"		80.0	80.0	80.0	80.0
48"		64.0	64.0	80.0	80.0
53-1/8"		60.0	60.0	78.0	78.0
26-1/2"	48"	80.0	80.0	80.0	80.0
32"		80.0	80.0	80.0	80.0
37"		80.0	80.0	80.0	80.0
42"		80.0	80.0	80.0	80.0
48"		61.0	61.0	80.0	80.0

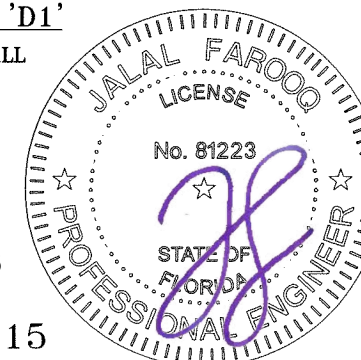


GLAZING OPTIONS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 7/26/2023

FL #34015

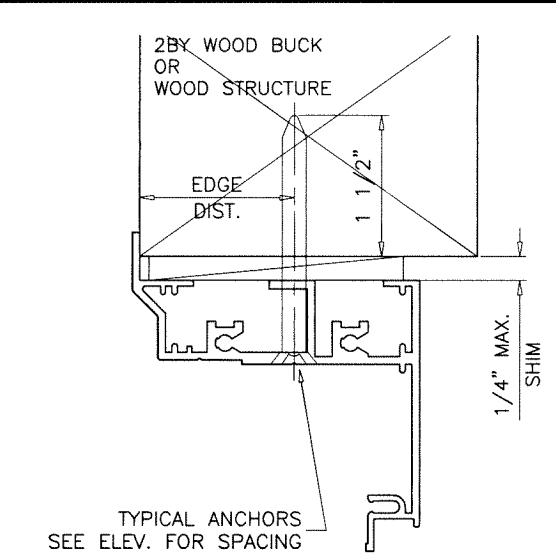
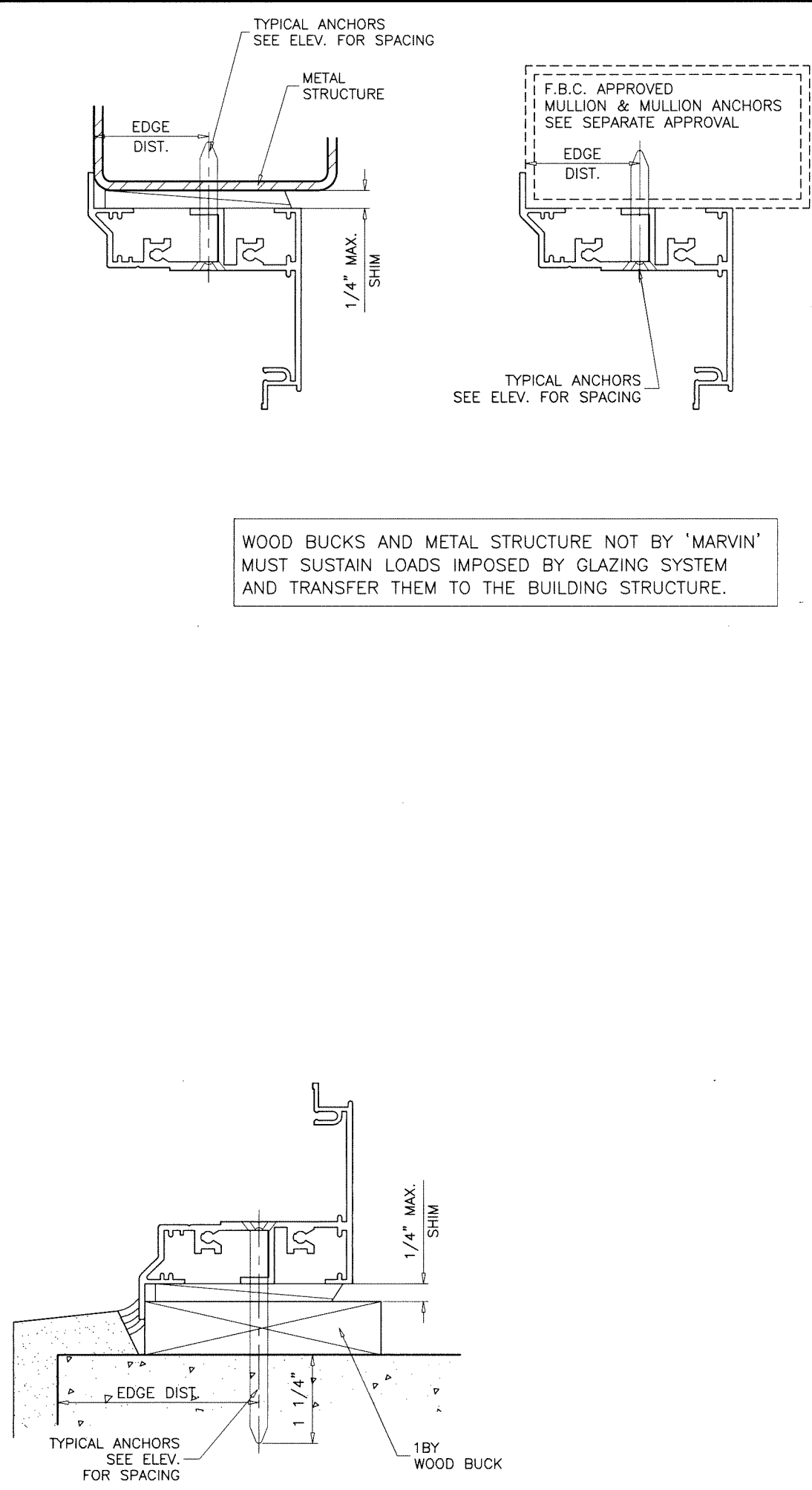
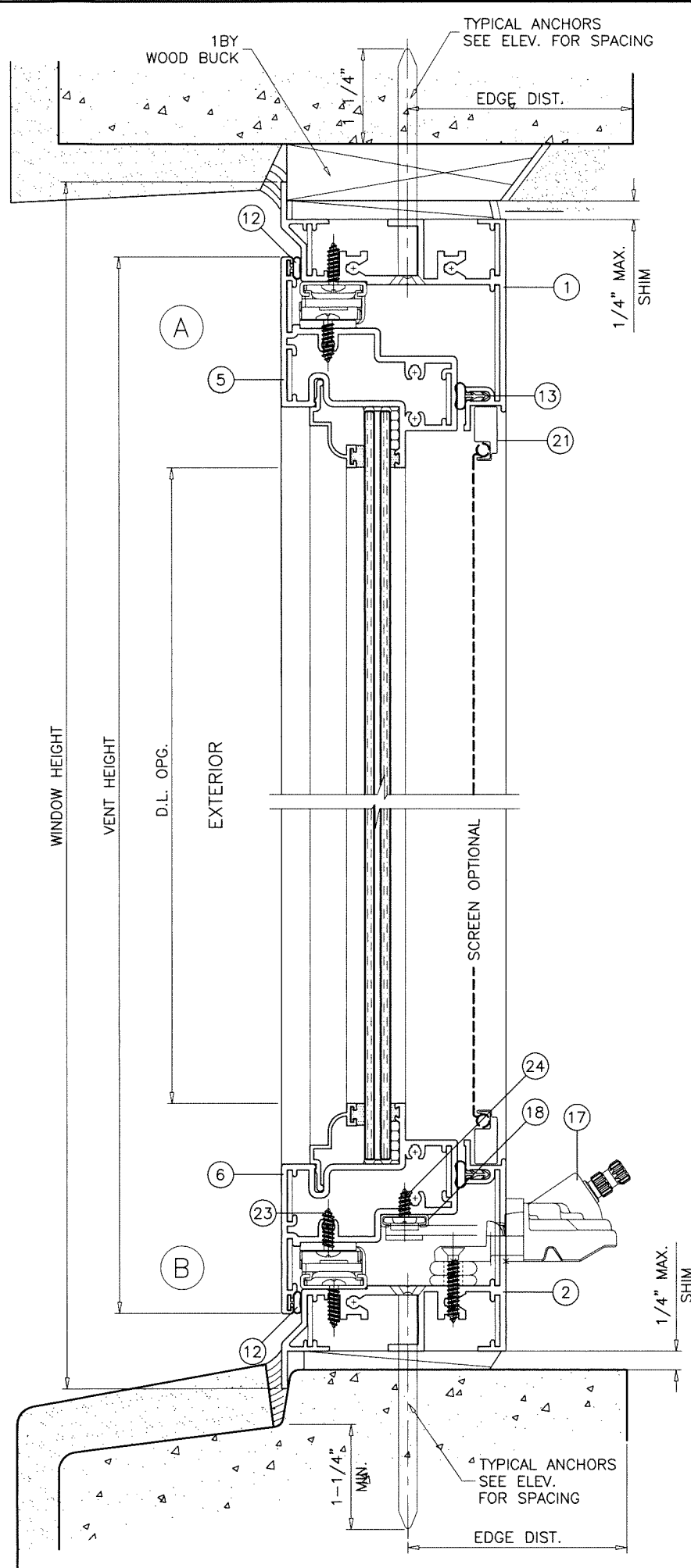


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COMP-ANL\20-72F-MWD

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MARVIN
PO Box 100, 401 State Ave. N.
Warroad, MN. 56763
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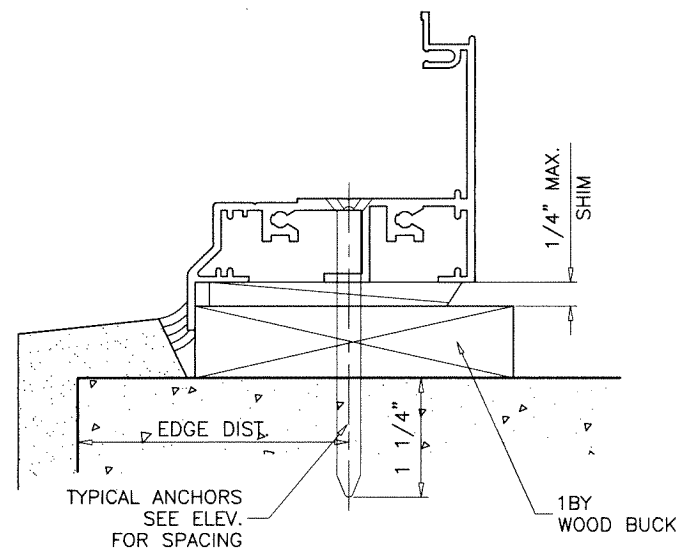
no.	date	by	description

date: 10-03-20
scale: -
dr. by: TARIQ
chk. by: -
drawing no. 20-72F
sheet 2 of 6



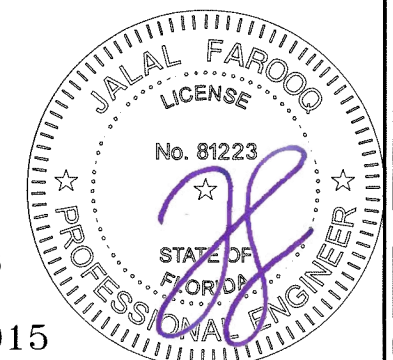
WOOD BUCKS AND METAL STRUCTURE NOT BY 'MARVIN' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR FILLED BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI 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.
 WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



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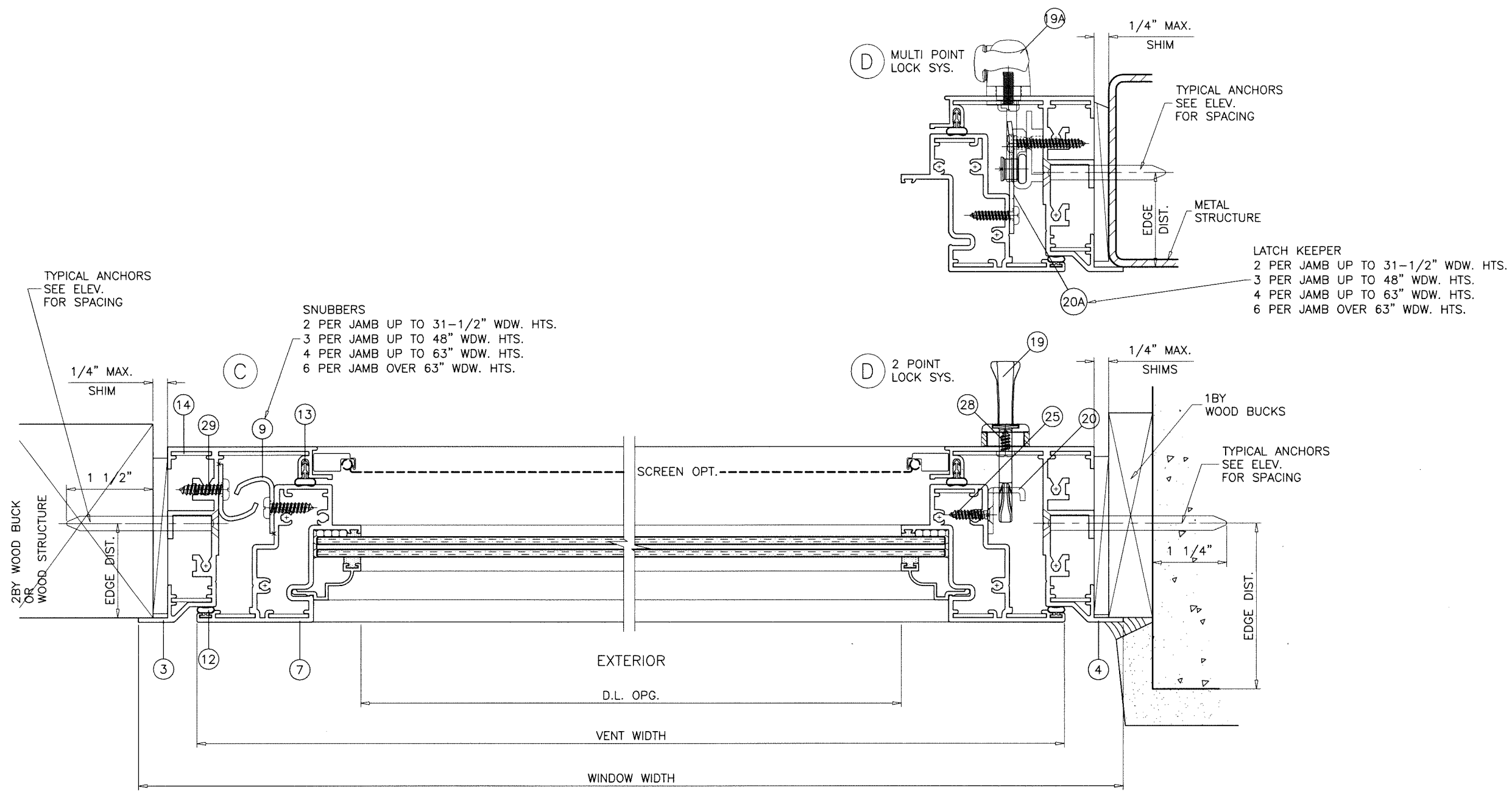
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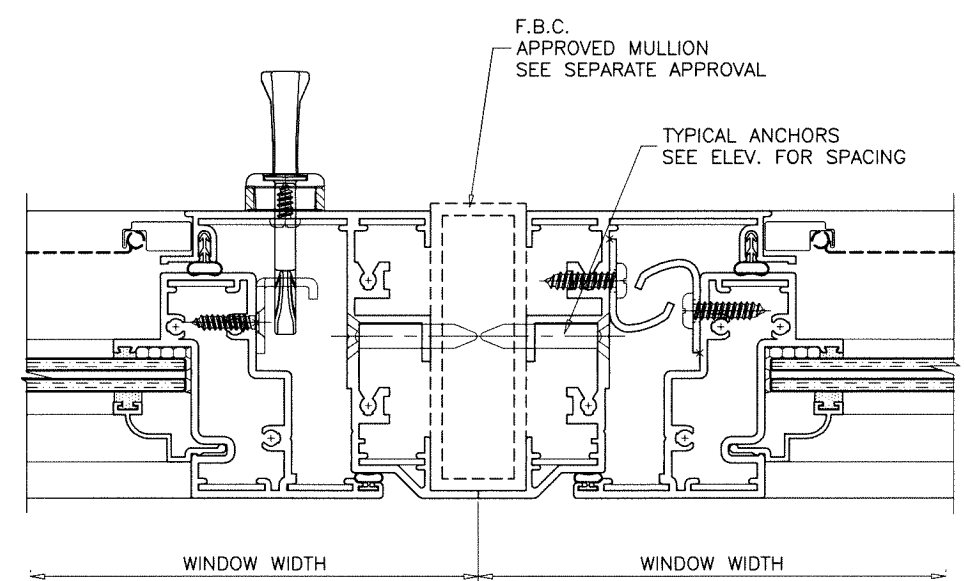
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20-72F
 sheet 3 of 6

COMP-ANL\20-72F-MWD



SINGLE VENT WINDOWS



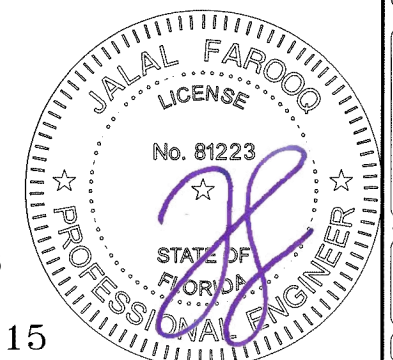
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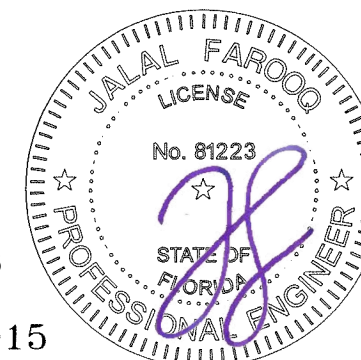
ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SIW421	1	FRAME HEAD	6063-T6	-
2	SIW421	1	FRAME SILL	6063-T6	-
3	SIW421	1	FRAME JAMB-HINGE SIDE	6063-T6	-
4	SIW421	1	FRAME JAMB-LATCH SIDE	6063-T6	-
5	SIW422	1	VENT TOP RAIL	6063-T6	-
6	SIW422	1	VENT BOTTOM RAIL	6063-T6	-
7	SIW422	1	VENT SIDE RAIL-HINGE SIDE	6063-T6	-
8	SIW422	1	VENT SIDE RAIL-LATCH SIDE	6063-T6	-
9	23138	AS REQD.	SNUBBER	ST. STEEL	TRUTH HARDWARE
10	SIW112	AS REQD.	GLAZING BEAD (5/16" GLASS)	6063-T6	-
10.1	SIW129	AS REQD.	ALT. GLAZING BEAD (5/16" GLASS)	6063-T6	-
10A	SIW117	AS REQD.	GLAZING BEAD (11/16" INSUL. GLASS)	6063-T6	-
10B	SIW108	AS REQD.	GLAZING BEAD (7/16" GLASS)	6063-T6	-
10B.1	SIW127	AS REQD.	ALT. GLAZING BEAD (7/16" GLASS)	6063-T6	-
11	5531	AS REQD.	EXT. GLAZING SPACER, DUROMETER 70±5 SHORE A	SANTOPRENE	CENTRAL PLASTICS
12	83007	AS REQD.	OUTER COMPRESSION SEAL	-	MELTPPOINT
13	83006	AS REQD.	INNER COMPRESSION SEAL	-	MELTPPOINT
14	WA-753CCLSS-2	AS REQD.	CORNER LOCK	ST. STEEL	REGENT
14A	WA-753CCLSS-3	AS REQD.	CORNER LOCK	ST. STEEL	REGENT
16	304CJ200-16AE	2/ WDW	4 BAR HINGES-HEAVY DUTY	ST. STEEL	TRUTH HARDWARE
17	52.12	1/ WDW	SINGLE ARM OPERATOR	-	TRUTH HARDWARE
17.1	32658	1	OPERATOR GASKET .062	-	TRUTH HARDWARE
17.2	32833	1	OPERATOR SPACER .236	-	TRUTH HARDWARE
17.3	21546	1	OPERATOR SPACER .138	-	TRUTH HARDWARE
17.4	21547	1	OPERATOR SPACER .189	-	TRUTH HARDWARE
18	30175	1/ OPER.	TRACK	ST. STEEL	TRUTH HARDWARE
19	PO-A3000	2/ VENT	LOCK ASSEMBLY (SINGLE POINT LOCK SYS.)	-	RADISSON INDUSTRIES
19A	PO-3004	2/ VENT	LOCK ASSEMBLY (MULTI POINT LOCK SYS.)	-	RADISSON INDUSTRIES
19A.2	PO-BP-2401-00SS	1/ LOCK	SUPPORT PLATE (MULTI POINT LOCK SYS.)	-	RADISSON INDUSTRIES
20	GA-SGL-660S	1/ LOCK	KEEPER (SINGLE POINT LOCK)	ST. STEEL	RADISSON INDUSTRIES
20A	GA-ILF-005-SS	AS REQD.	KEEPER (MULTI POINT LOCK)	-	RADISSON INDUSTRIES
20A.1	FM-IL-13 SERIES	1	INTERLOCK ROLLER TIE BAR (MULTI POINT LOCK)	-	RADISSON INDUSTRIES
20A.2	TGW-500-300	AS REQD.	TIE BAR GUIDE (MULTI POINT LOCK)	-	RADISSON INDUSTRIES
20A.3	-	2/ GUIDE	TIE BAR GUIDE MOUNTING SCREWS (MULTI POINT LOCK)	-	#10 X 1-1/4" FH SMS
21	-	1	5/16" BOX SCREEN	-	OPTIONAL
22	-	2/ CORNER	FRAME ASSY. SCREWS	CRS	#10 x 2" PH SMS
22A	-	2/ CORNER	VENT ASSY. SCREWS	CRS	#10 x 1-1/2" PH SMS
22B	-	1/ CORNER	VENT ASSY. SCREWS	CRS	#10 x 2" PH SMS
23	-	6/HINGE	HINGE MOUNTING SCREWS	-	#10 x 3/4" FH SMS
24	-	2/OPERATOR	OPERATOR TRACK MTG. SCREWS	-	#10 x 3/4" FH SMS
25	-	2/KEEPER	KEEPER MOUNTING SCREWS	-	#10 x 3/4" FH SMS
26	-	-	-	-	-
27	-	6/OPERATOR	OPERATOR MOUNTING SCREWS	-	#10 X 1-1/4" FH SMS
28	-	2/LOCK	LOCK ASSEMBLY MOUNTING SCREWS	-	#10-24 X 1/2" FH MS TYPE F
29	-	2/SNUBBER	SNUBBER MTG. SCREW	-	#10 x 3/4" FH SMS
32	5530	AS REQD.	INTERIOR GLAZING SPACER, DUROMETER 70±5 SHORE A	TPE	ULTRAFAB
33	MPI-4573	8/ LITE	SETTING BLOCK	EPDM	DUROMETER 85±5 SHORE A

SEALANTS:

ALL FRAME AND VENT CORNERS SEALED WITH SCHNEE MOREHEAD SM-5504 SEALANT.

Sealed: 7/26/2023

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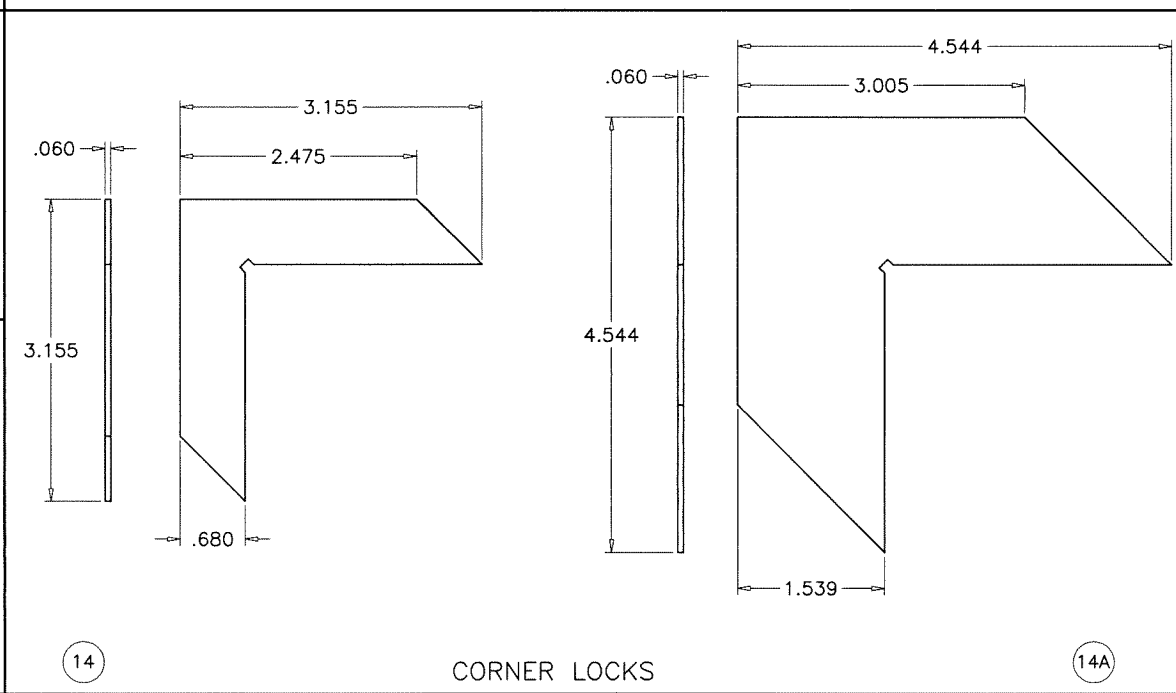
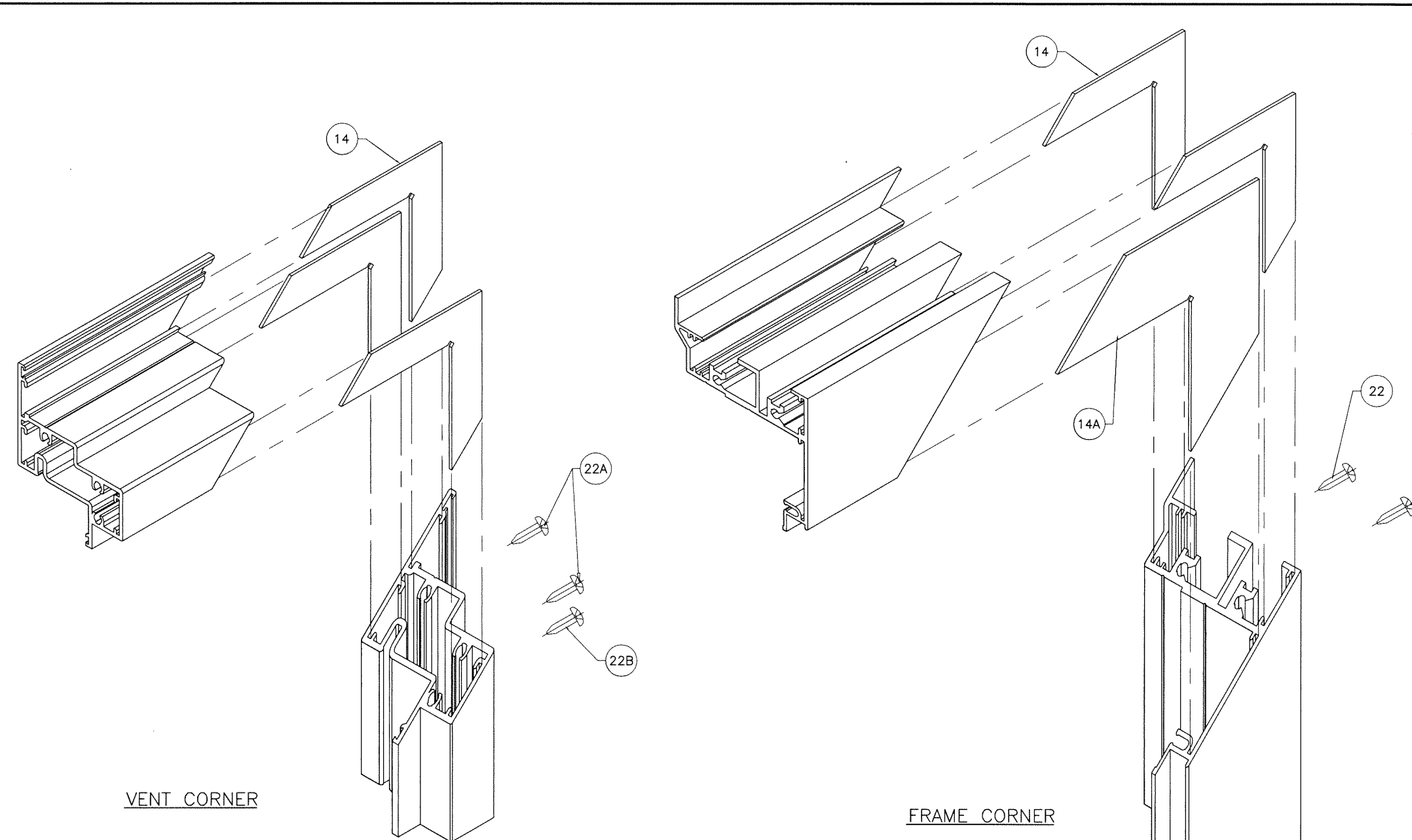
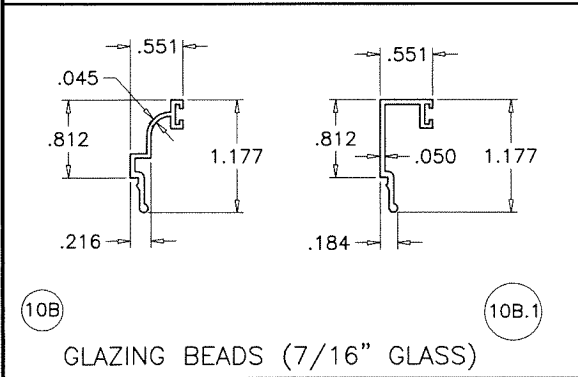
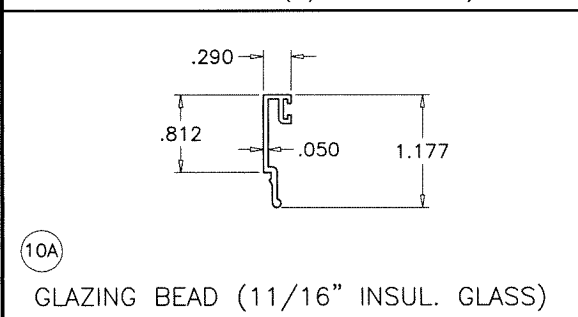
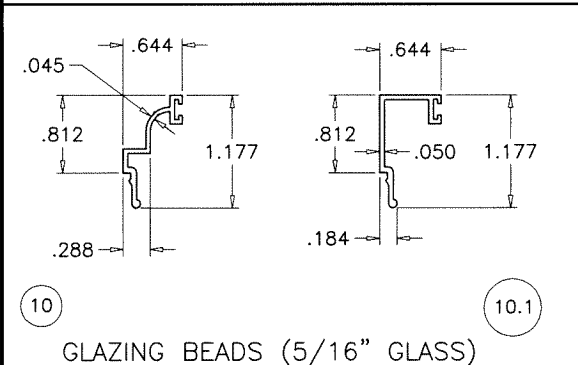
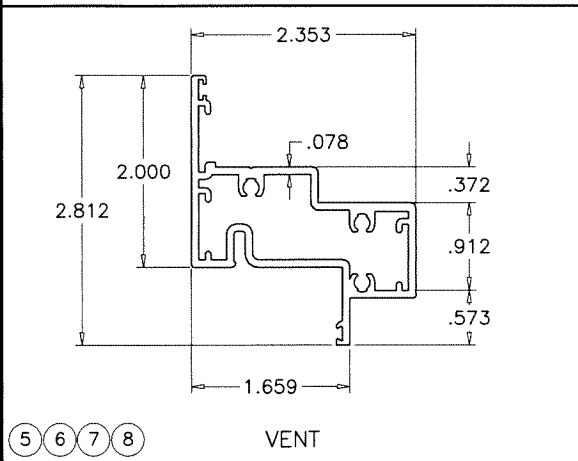
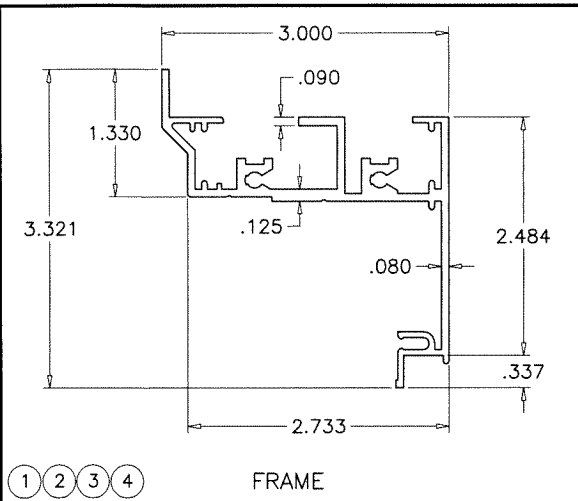
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