

GENERAL NOTES AND SPECIFICATIONS:

1. SERIES ZS-2750 PROJECT OUT ALUMINUM WINDOW SYSTEM, SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE. THIS PRODUCT MAY BE INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES (MIAMI-DADE/BROWARD COUNTIES)(H.V.H.Z.) AND OUT OF THEM (N.H.V.H.Z).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 (HVHZ) & 1609 (NHVHZ) OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THIS PRODUCT TO BE INSTALLED FOR A DIRECTIONALITY FACTOR $K_d=0.85$, USING ASCE 7-22 SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATING INDICATED ON NOTE 2.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS.

THIS PRODUCT'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODES AS PER PROTOCOLS TAS-201, TAS-202, TAS-203 AS PER ARCHITECTURAL TESTING LAB REPORT #94443.02-801-18 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTIONS 1616 & 1604 OF THE FLORIDA BUILDING CODE. THIS PRODUCT IS ALSO APPROVED FOR WATER AND AIR INFILTRATION AS PER PROTOCOL TAS-202, PER SECTION 2411.3.2 OF THE FLORIDA BUILDING CODE. GLASS VERIFIED PER ASTM E-1300 PER SECTION 2404.1 OF THE FLORIDA BUILDING CODE.

2. MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR THIS PRODUCT SHALL BE +60 psf, -60 psf.

3. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER (UNLESS OTHERWISE NOTED), PER ASTM B221, WITH $F_y = 25.0$ ksi MINIMUM. THE THICKNESS OF ALL EXTRUSIONS SHALL BE AS SHOWN ON THIS DRAWING.

4. ALL ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

5. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 AND SECTION 2411.3.3.4 OF THE FLORIDA BUILDING CODE WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH.

6. ANCHORS NOTES, ANCHOR'S TYPE TO SUBSTRATE SHALL BE AS FOLLOWS:

- (a) TO EXISTING 1/8" MIN. THICK METAL, ALUMINUM (6063-T6 ALLOY) OR STEEL ($F_y \geq 33$ KSI):
- #12-14x1" HWH DRIL-FLEX® STRUCTURAL SELF-DRILLING FASTENER AND #12x1" PHILLIPS FLAT HEAD HD A POINT FASTENER AT HINGE LOCATION W/ MIN. 1" EDGE DISTANCE, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

7. ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE FASTENER'S MANUFACTURER.

8. PRODUCT INSTALLATION SHALL ONLY BE PERFORMED INTO EXISTING STRUCTURE CONSISTING OF 1/8" MIN. THICK ALUMINUM OR STEEL FRAME STRUCTURE AND SHALL COMPLY WITH SECTION 2406 OF THE FLORIDA BUILDING CODE AND WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.

9. PROVIDE 1/8" MAX. BEARING SHIM SPACE (TYP.).

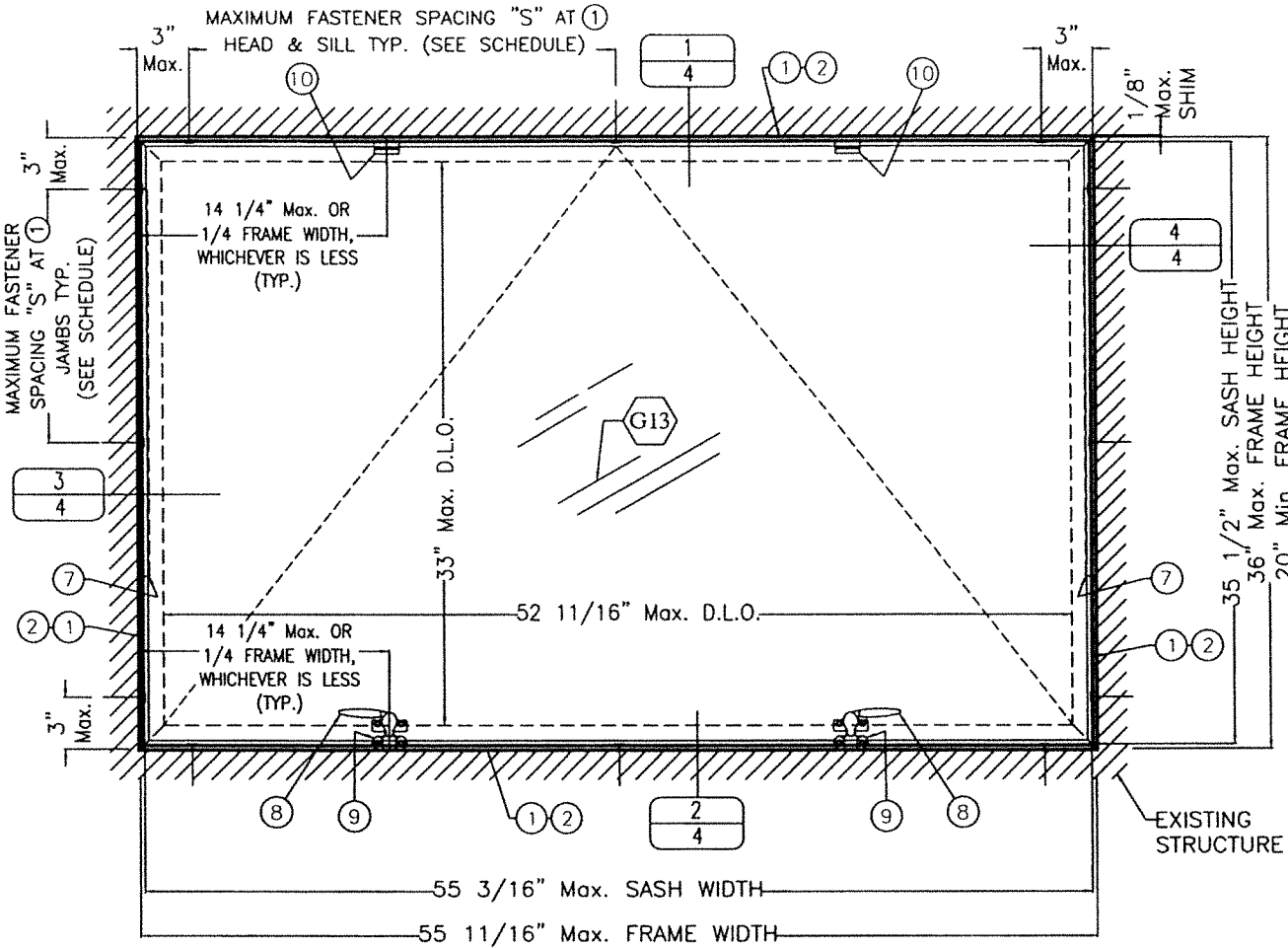
10. THIS PRODUCT SYSTEM WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.

11. PROVIDE DOW CORNING 795 & 995 SEALANT TYPICAL AT ALL FRAME AND GLASS JOINTS PER BILL OF MATERIALS, SHEET 3 OF 4.

12. REMAINING COMPONENTS FOR THIS PRODUCT SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 3 OF THIS DRAWING.

13. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.5 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

14. (a) THIS P.E.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEViate FROM THE P.E.D.
- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) 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.
- (e) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



ZS-2750 PROJECT OUT ALUMINUM WINDOW SYSTEM
TYPICAL EXTERIOR ELEVATION

SCALE : 3/32" = 1"

MAXIMUM FASTENERS SPACING "S" SCHEDULE

LOCATION	MAX. A.S.D DESIGN PRESSURE RATING (psf)	1/8" MIN. THICK METAL, ALUMINUM (6063-T6 ALLOY) OR STEEL ($F_y \geq 33$ KSI)
		SELF DRILLING FASTENERS (SEE NOTE #6 (a))
JAMBS	$\leq \pm 48.0$	15" o.c.
	$\leq \pm 55.0$	15" o.c.
	$\leq \pm 60.0$	14" o.c.
HEAD & SILL	$\leq \pm 30.0$	24" o.c.
	$\leq \pm 35.0$	24" o.c.
	$\leq \pm 42.0$	20" o.c.
	$\leq \pm 60.0$	14" o.c.

THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA

Florida Building Code (High & Non High Velocity Hurricane Zone)

Y.M.
DRAWN BY
7/14/2023
DATE
23-088
DRAWING No
SHEET 1 OF 4

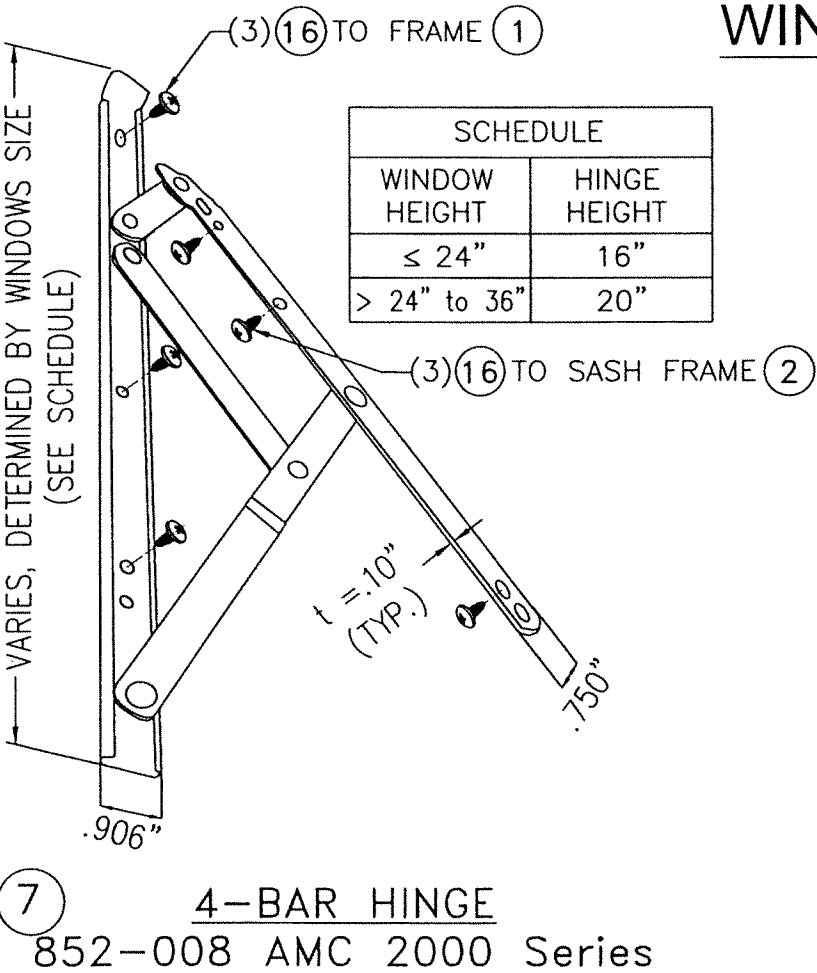
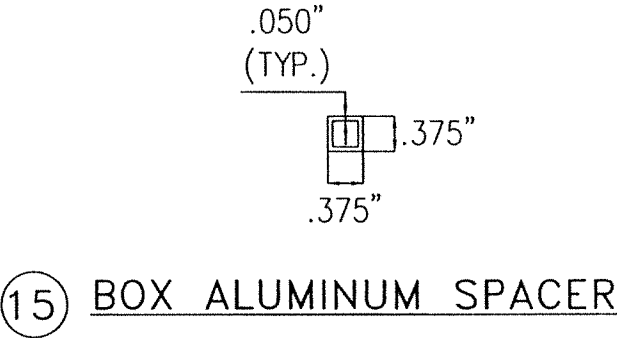
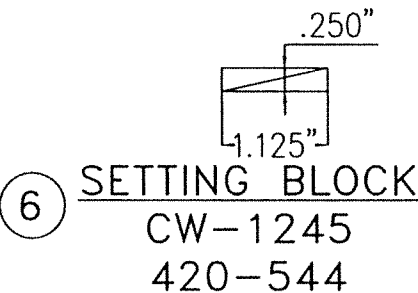
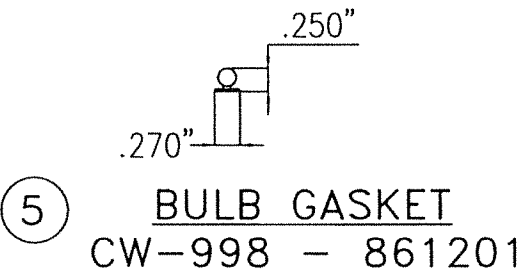
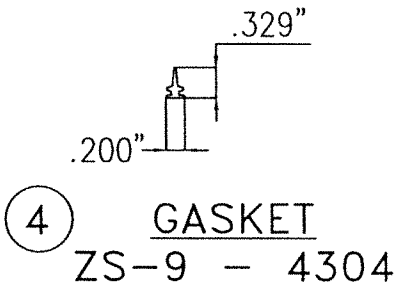
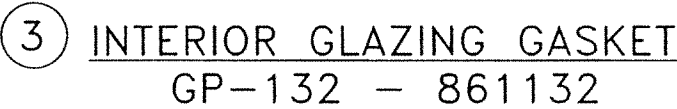
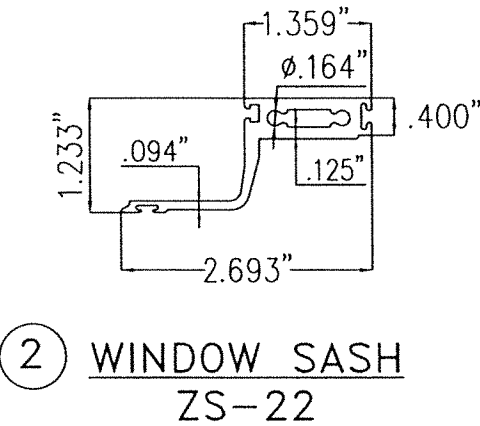
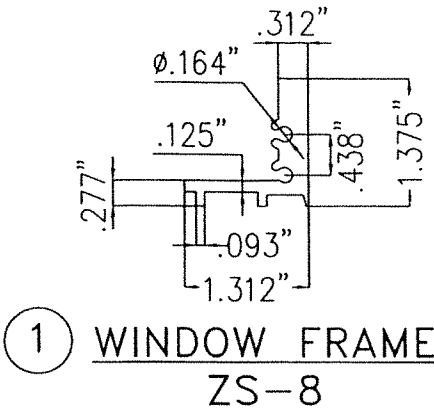
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ZS-2750 PROJECT OUT ALUMINUM WINDOW SYSTEM COMPONENTS

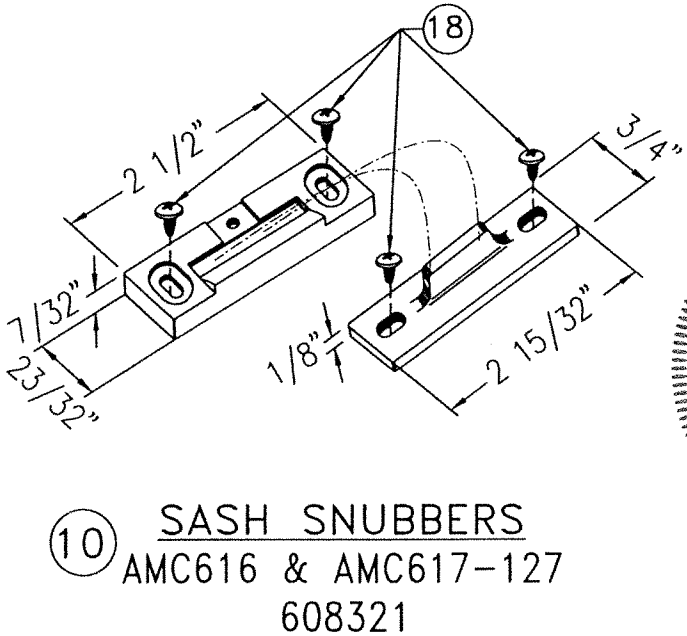
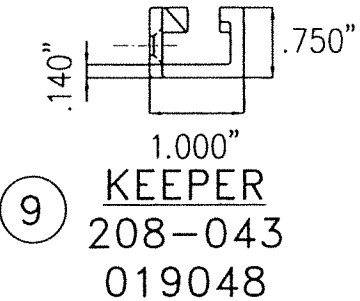
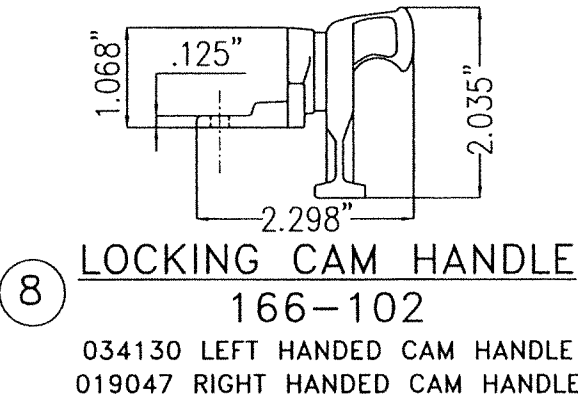
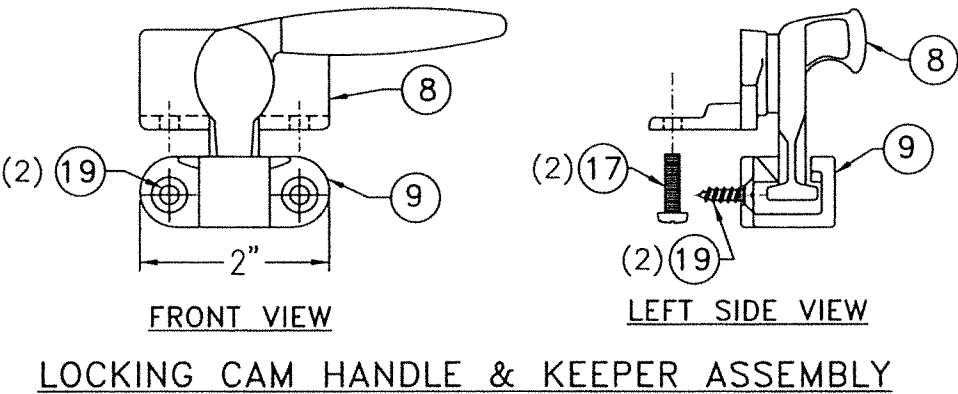
SCALE : 1/2" = 1"



SCHEDULE	
WINDOW HEIGHT	HINGE HEIGHT
≤ 24"	16"
> 24" to 36"	20"

WINDOW HARDWARE COMPONENTS

NOT TO SCALE



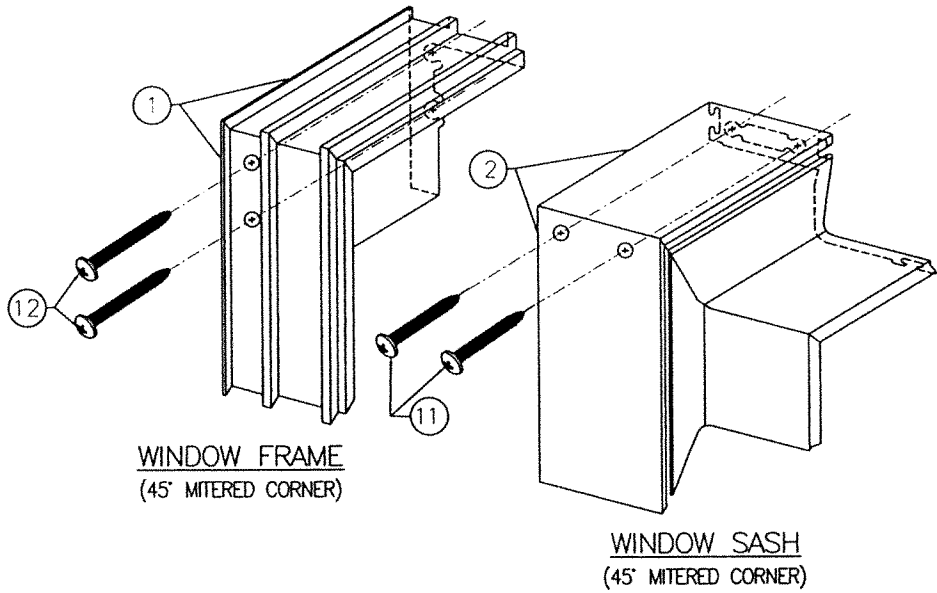
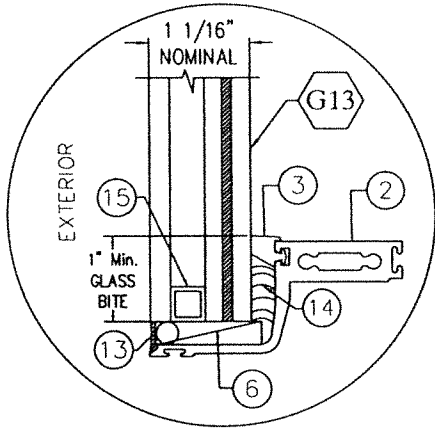
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7/14/2023 DATE
23-088 DRAWING NO
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2023
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TYPICAL GLAZING DETAIL



CORNER ASSEMBLY DETAILS
(SEE NOTE 5, SHEET 1)

GLASS SCHEDULE

GLASS LABEL	GLASS COMPOSITION	MANUFACTURER NAME	MAXIMUM D.L.O.
G13	1 1/16" NOMINAL INSULATED GLASS CONSISTING OF 1/4" TEMPER GLASS AT EXTERIOR - 3/8" AIR SPACE - (2) 3/16" H.S GLASS W/ 0.075" THICK VANCEVA™/STORMGLASS™ COMPOSITE INTERLAYER	EASTMAN CHEMICAL COMPANY (MA)/ OLDCASTLE BE, INC.	52 11/16" WIDE x 33" HIGH

TYPICAL WINDOW GLASS SIZE = D.L.O. + 1"

BILL OF MATERIALS

ITEM No.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
1.	ZS-8	WINDOW FRAME	1.312" x 1.375"	6063 - T6 ALUMINUM	OBE	
2.	ZS-22	WINDOW SASH	2.693" x 1.233"	6063 - T6 ALUMINUM	OBE	
3.	GP-132 - 861132	INTERIOR GLAZING GASKET	.385" x .336"	EPDM	TREMCO	LOCATED AT WINDOW SASH
4.	ZS-9 - 861201	GASKET	.200" x .329"	SANTOPRENE	EPG/TRELLBORG	LOCATED AT WINDOW SASH
5.	CW-998 - 861201	BULB GASKET	.270" x .250"	FOAM FILLED-TITE BULB	AMESBURY	LOCATED AT WINDOW SASH
6.	CW-1245 - 420-544	SETTING BLOCK	1.125" x .250" x 4"	SILICONE	EPG/TRELLBORG	LOCATED AT WINDOW SASH
7.	852-008 -AMC 2000	4-BAR HINGE	.10" THK. TYPICAL & HEIGHT DETERMINED BY WINDOW'S SIZE (SEE SHEET 2 OF 4)	304 STAINLESS STEEL	CALDWELL	ONE HINGE (FITS .625"Min.-.708"Max. WINDOW CAVITY) LOCATED AT EACH JAMB, CHANNEL FASTENED TO WINDOW'S FRAME & BAR FASTENED TO WINDOW'S SASH AS INDICATED ON SHEET 2 OF 4.
8.	166-102 019047 RIGHT HAND 034130 LEFT HAND	LOCKING CAM HANDLE	2.00" x 2.035" x 2.298" DEPTH	420 MANGANESE BRONZE	BRONZE CRAFT	AT SASH, LOCATED @ 14 1/4" o.c. Max. OR 1/4 FRAME WIDTH, WHICHEVER IS LESS
9.	208-043 -019048	KEEPER	2.00" x .750" x 1.00" DEPTH	415 ALUMINUM BRONZE	BRONZE CRAFT	AT FRAME, LOCATED @ 14 1/4" o.c. Max. OR 1/4 FRAME WIDTH, WHICHEVER IS LESS
10.	AMC616 & AMC617-127 608321	SASH SNUBBERS	2.50" x .750" x .125" THK.	300 SERIES STAINLESS STEEL	ADVANTAGE	AT SASH & FRAME, LOCATED @ 14 1/4" o.c. Max. OR 1/4 FRAME WIDTH, WHICHEVER IS LESS
11.	FS-115 - 650070	PHILLIPS PAN HEAD A POINT FASTENER	#10 x 1"	300 SERIES STAINLESS STEEL	VARIES	SASH ASSEMBLY SCREW
12.	FS-328 - 650080	PHILLIPS PAN HEAD B POINT FASTENER	#10 x 1 1/2"	STEEL	VARIES	FRAME ASSEMBLY SCREW
13.	795	STRUCTURAL SILICONE	CONT. ALL AROUND	SILICONE	DOW CORNING	PERIMETER SEALANT AT FRAME & AT SASH
14.	995	STRUCTURAL SILICONE	CONT. ALL AROUND	SILICONE	DOW CORNING	SASH (.25" SPACE TO GLASS) FILL SEALANT & SASH PERIMETER SEALANT
15.	-	BOX ALUMINUM GLASS SPACER	.375" x .375" x .05"	ALUMINUM		LOCATED AT GLASS EDGES
16.	FS-53 - 650030	PHILLIPS ROUND HEAD A POINT FASTENER	#10 x 3/8"	300 SERIES STAINLESS STEEL	VARIES	ATTACH HINGE LEG (BAR) TO SASH & TO FRAME
17.	476	PHILLIPS PAN HEAD MACHINE SCREW	#10-24 x 5/8"	300 SERIES STAINLESS STEEL	VARIES	ATTACH LOCKING CAM HANDLES
18.	FS-109 - 650040	PHILLIPS PAN HEAD A POINT FASTENER	#10 x 1/2"	300 SERIES STAINLESS STEEL	VARIES	ATTACH FRAME SNUBBERS
19.	FS-56 - 650041	PHILLIPS PAN HEAD B POINT CAD FASTENER	#10 x 1/2"	300 SERIES STAINLESS STEEL	VARIES	ATTACH KEEPER

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SERIES ZS-2750 PROJECT OUT ALUMINUM WINDOW SYSTEM
LARGE MISSILE IMPACT RESISTANT

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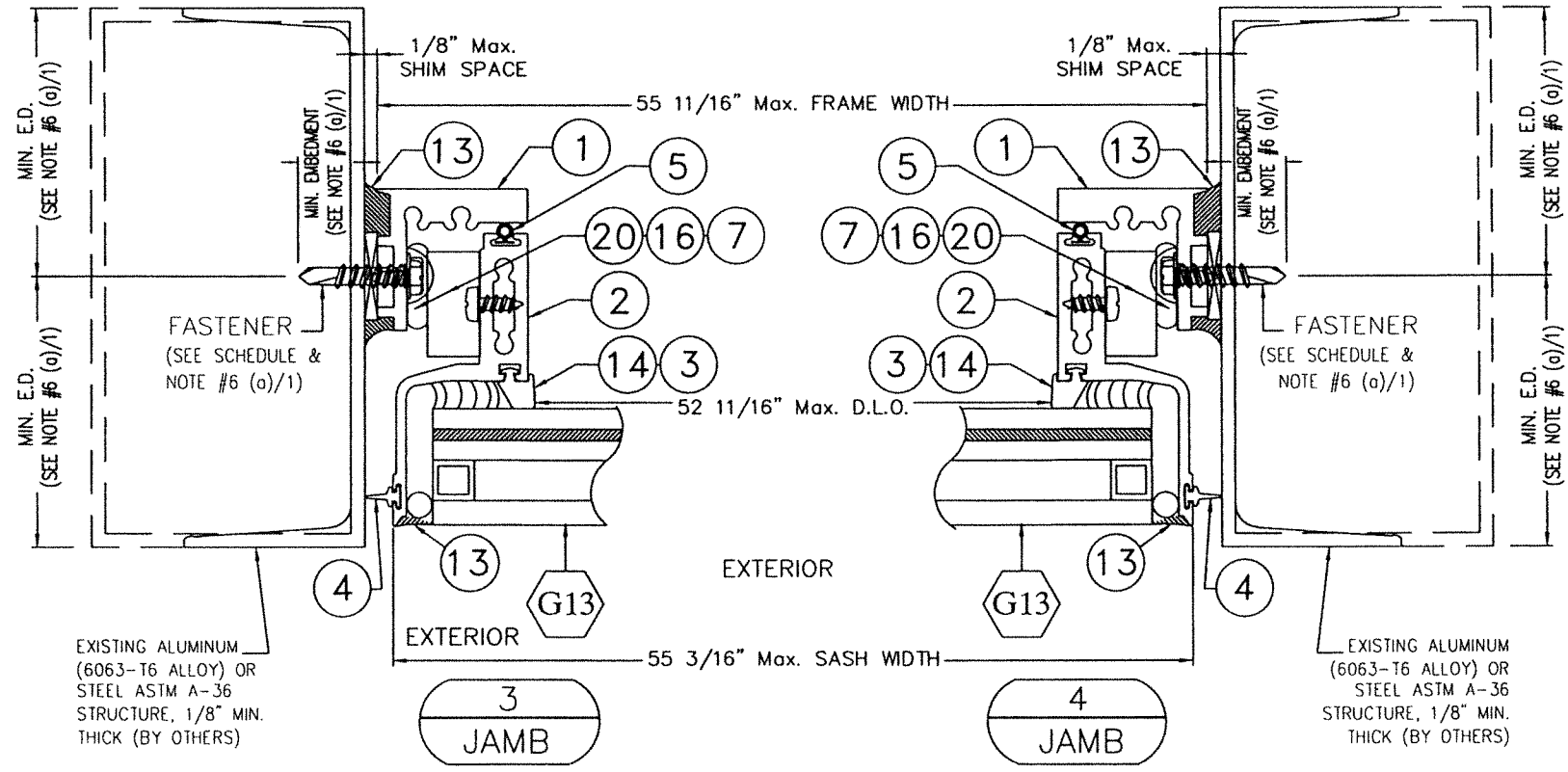
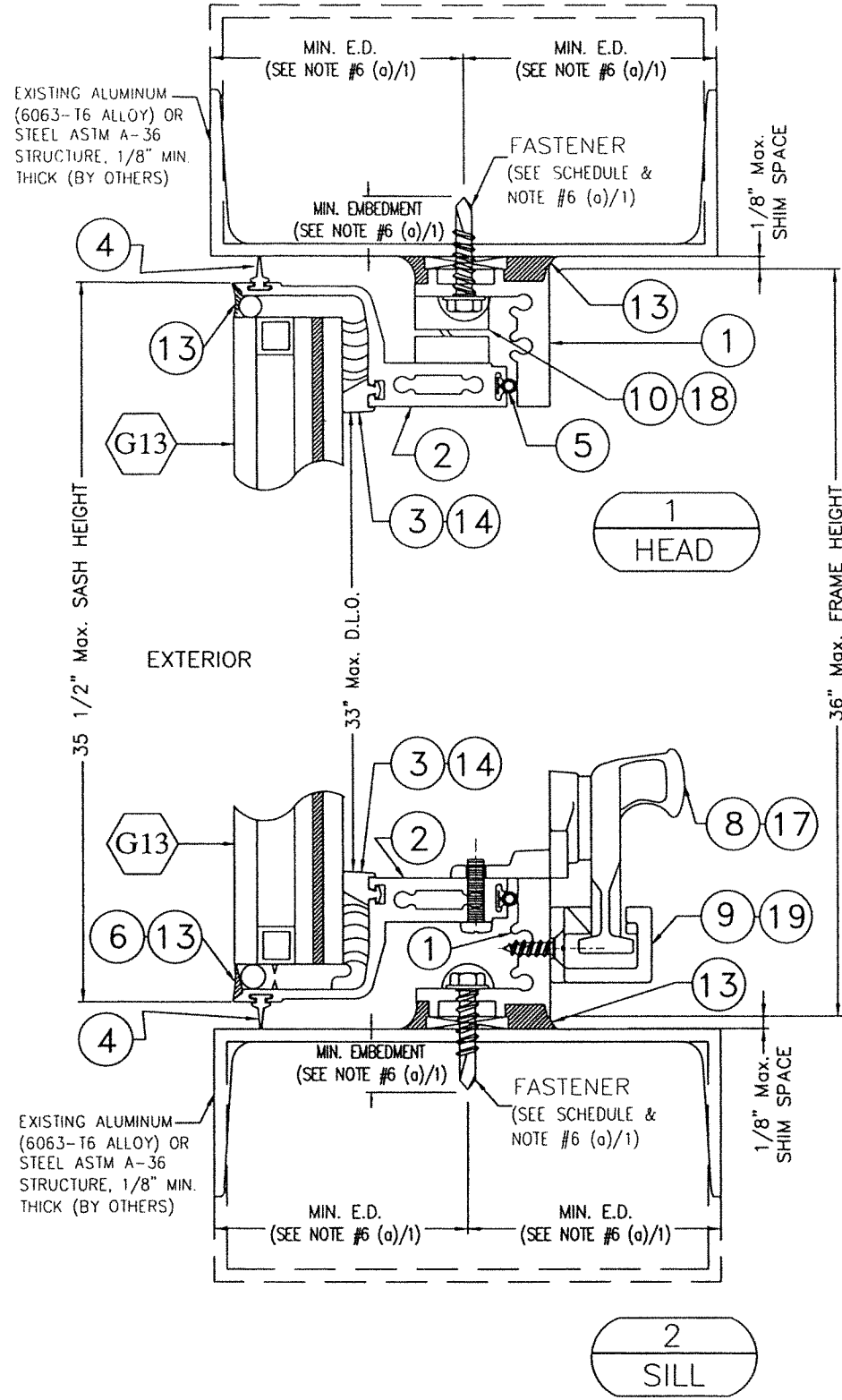
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REV. No.	DESCRIPTION	DATE	REV. No.	DESCRIPTION	DATE
OLD 20-237		7/14/23			
ST. OF FL. COMMENTS		06/18/18			

Y.M. DRAWN BY	7/14/2023 DATE	23-088 DRAWING No	SHEET 3 OF 4
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Y.M. DRAWN BY		7/14/2023 DATE		23-088 DRAWING No		SHEET 4 OF 4	
SERIES ZS-2750 PROJECT OUT ALUMINUM WINDOW SYSTEM		oldcastle BuildingEnvelope™		803 AIRPORT RD. TERRELL TX 75160		PHONE: (972) 551-6100	
LARGE MISSILE IMPACT RESISTANT		DATE		DESCRIPTION		REV. No	
		7/14/23		OLD 20-237			

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