

CORRIM COMPANY, LLC

FIBERGLASS OUTSWING DOOR

**IMPACT RESISTANCE (LARGE MISSILE IMPACT RESISTANT, MISSILE LEVEL D)
VALID FOR USE INSIDE AND OUTSIDE THE HVHZ (SEE LIMITATIONS HEREIN)**

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

FRANK BENNARDO, P.E.
PE# 0046549 CA# 9885

OCTOBER 20, 2023

ALLOWABLE DESIGN PRESSURES

CONFIGURATION	DOOR PANEL HEIGHT	WHERE WATER INFILTRATION REQUIREMENT IS REQUIRED	WHERE WATER INFILTRATION REQUIREMENT IS NOT REQUIRED
SINGLE DOOR	96"	±70.0 PSF	±70.0 PSF
	80"	±70.0 PSF	±70.0 PSF
OPAQUE DOUBLE DOORS	96"	NOT APPROVED	±70.0 PSF
	80"	NOT APPROVED	±70.0 PSF
GLAZED DOUBLE DOORS	96"	NOT APPROVED	±46.8 PSF
	80"	NOT APPROVED	±60.1 PSF

GENERAL NOTES

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE EIGHTH EDITION (2020), FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE. SINGLE DOOR SYSTEMS HAVE BEEN TESTED PER ASTM E330, E283, E331, E1886, E1996, AND TAS 201, 202 AND 203 STANDARDS, DOUBLE DOOR SYSTEMS HAVE BEEN TESTED PER ASTM E330, E1886, E1996, AND TAS 201, 202 AND 203 STANDARDS.
- WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
- ALL ANCHORS SHALL BE SAE GRADE 5 MINIMUM, CADMIUM-PLATED OR OTHERWISE PROTECTED WITH CORROSION-RESISTANT MATERIAL UNLESS OTHERWISE NOTED. FASTENERS SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION, INC., & ANY APPLICABLE FEDERAL, STATE, AND/OR LOCAL CODES.
- REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- THE STRUCTURAL ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS BY THIS SYSTEM SHALL BE VERIFIED BY OTHERS. THE ARCHITECT/ENGINEER OF RECORD FOR THE PROJECT SUPERSTRUCTURE WITH WHICH THIS DESIGN IS USED SHALL BE RESPONSIBLE FOR THE INTEGRITY OF ALL SUPPORTING SURFACES TO THIS DESIGN WHICH SHALL BE COORDINATED BY THE PERMITTING CONTRACTOR. WOOD BUNKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- PRODUCTS SHOWN HEREIN ARE LARGE MISSILE IMPACT RESISTANT AND DO NOT REQUIRE IMPACT RESISTANT SHUTTERS.
- EXTERIOR SEAM OF FRAME CORNERS SHALL BE SEALED WITH SILICONE.
- PLASTIC COMPONENTS USED WITHIN THE HVHZ MUST MEET ALL APPLICABLE FIRE/SMOKE/UV PERFORMANCE REQUIREMENTS AS SET FORTH IN THE ABOVE-NOTED BUILDING CODE.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
- ALTERATIONS, ADDITIONS, HIGHLIGHTING, OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.

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TERMINOLOGY:

THE FOLLOWING ABBREVIATIONS APPEAR IN THIS APPROVAL: "F.W." FOR "FRAME WIDTH", "F.H." FOR "FRAME HEIGHT", "D.L.O." FOR "DAY LIGHT OPENING", "INC." FOR "INCORPORATION", "CORP." FOR "CORPORATION", "ALUM" FOR "ALUMINUM", "ASD" FOR "ALLOWABLE STRESS DESIGN", "ASTM" FOR "AMERICAN SOCIETY FOR TESTING AND MATERIALS", "CS" FOR "CARBON STEEL", "CONN" FOR "CONNECTION", "EMBED" FOR "EMBEDMENT", "DIST." FOR "DISTANCE", "GA" FOR "GAUGE", "HVHZ" FOR "HIGH-VELOCITY HURRICANE ZONE", "LB" FOR "POUND", "MAX" FOR "MAXIMUM", "N.T.S." FOR "NOT TO SCALE", "PSF" FOR "POUNDS PER SQUARE FOOT (lb/ft²)", "SPECS" FOR "SPECIFICATIONS", "&" FOR "AND", "MAX" FOR "MAXIMUM", "W/" FOR "WITH", "EXIST" FOR "EXISTING", "STRUCT" FOR "STRUCTURE", "CONC." FOR "CONCRETE". CONTACT ENGINEERING EXPRESS FOR ADDITIONAL ABBREVIATION/TERMINOLOGY CLARIFICATIONS.

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FOR SITE-SPECIFIC DEVIATIONS & MORE INFORMATION ABOUT THIS DOCUMENT OR SCAN THIS QR CODE

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FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA #14311.1)

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2023 FBC UPDATE	10/16/23	MRT	RWN

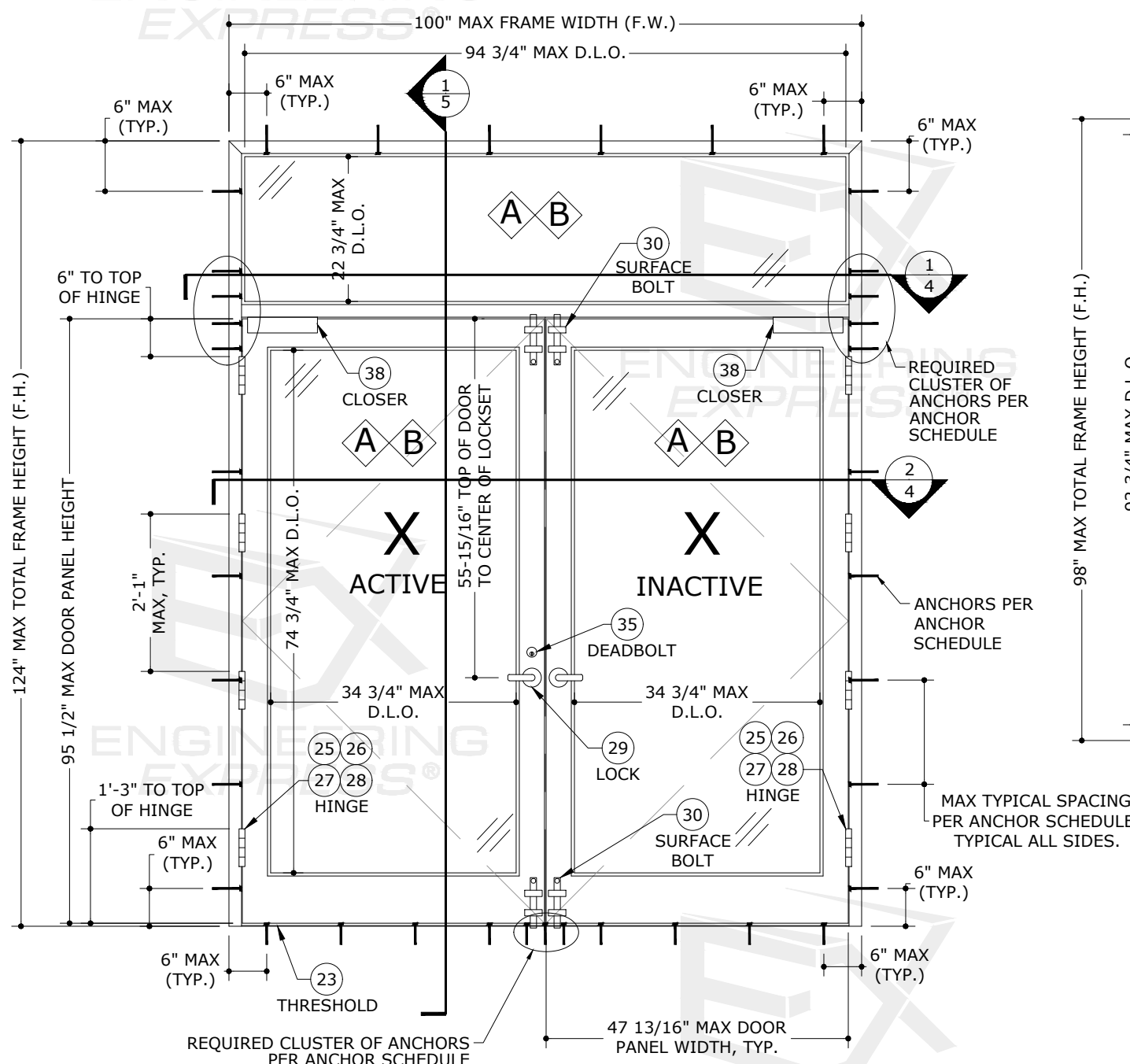
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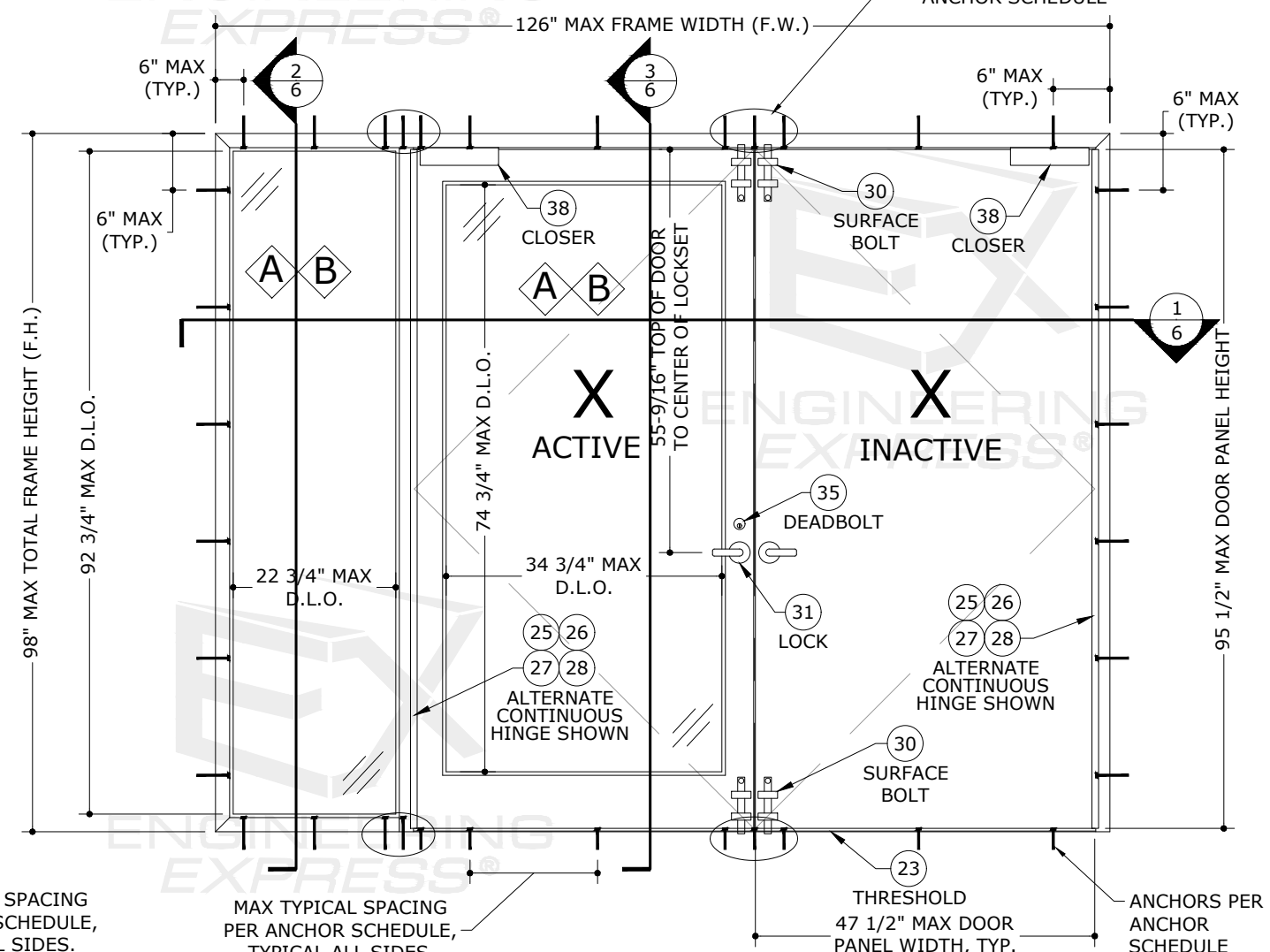
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1 DOUBLE DOOR WITH TRANSOM
1/2" = 1'-0"
EXTERIOR ELEV



2 DOUBLE DOOR WITH SIDELITE
1/2" = 1'-0"
EXTERIOR ELEV

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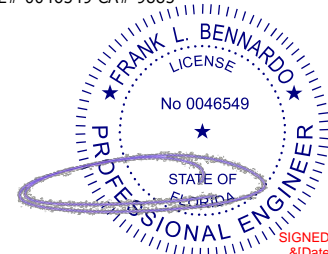
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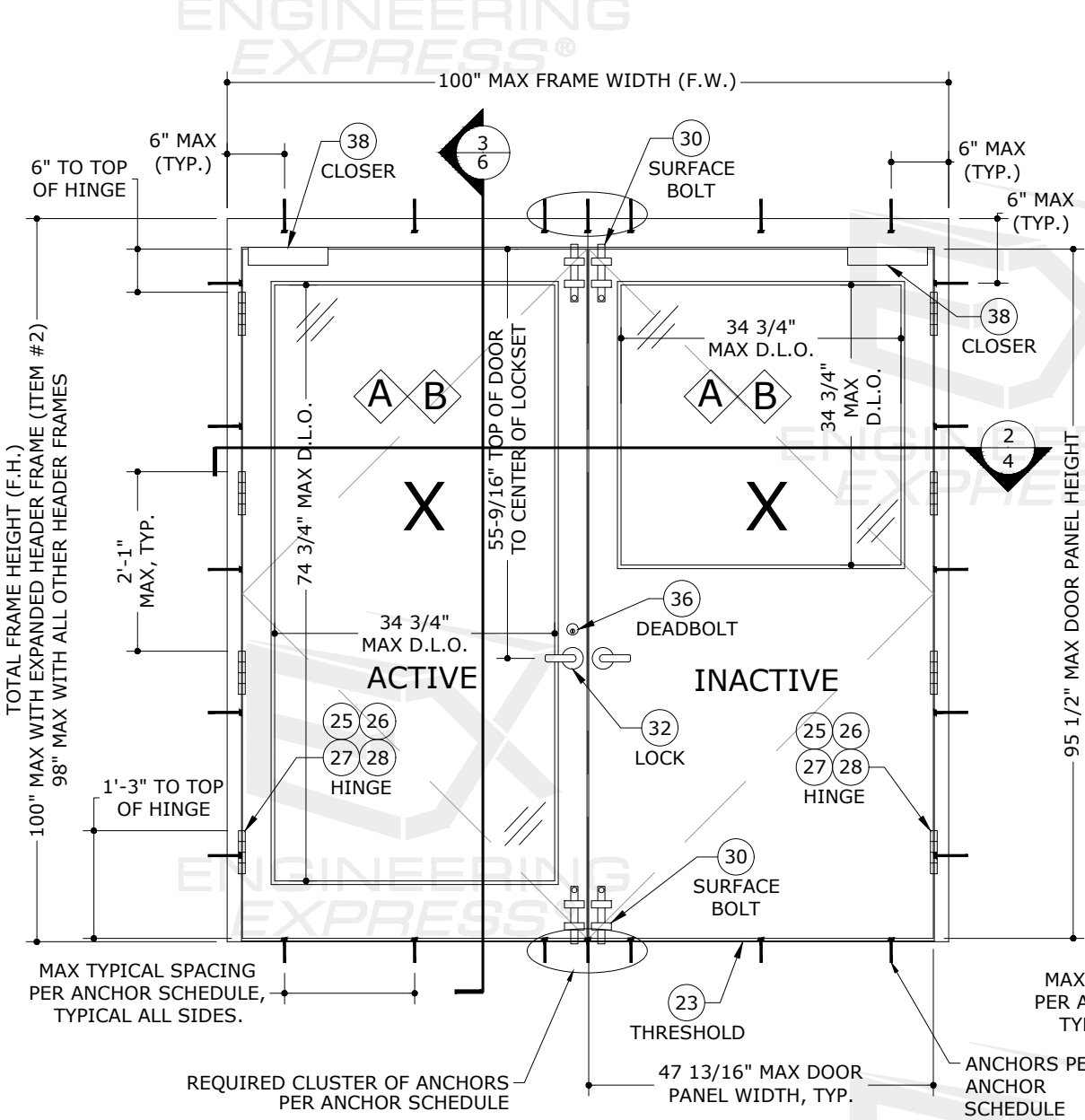
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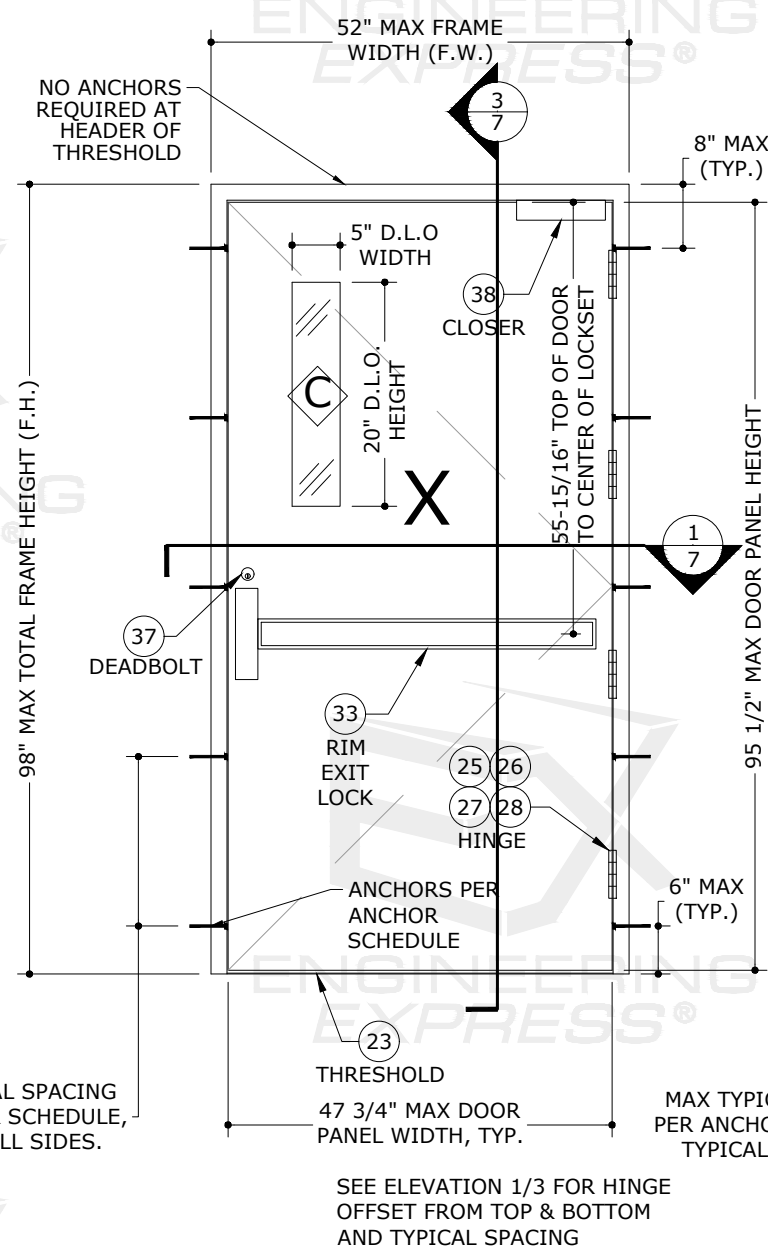
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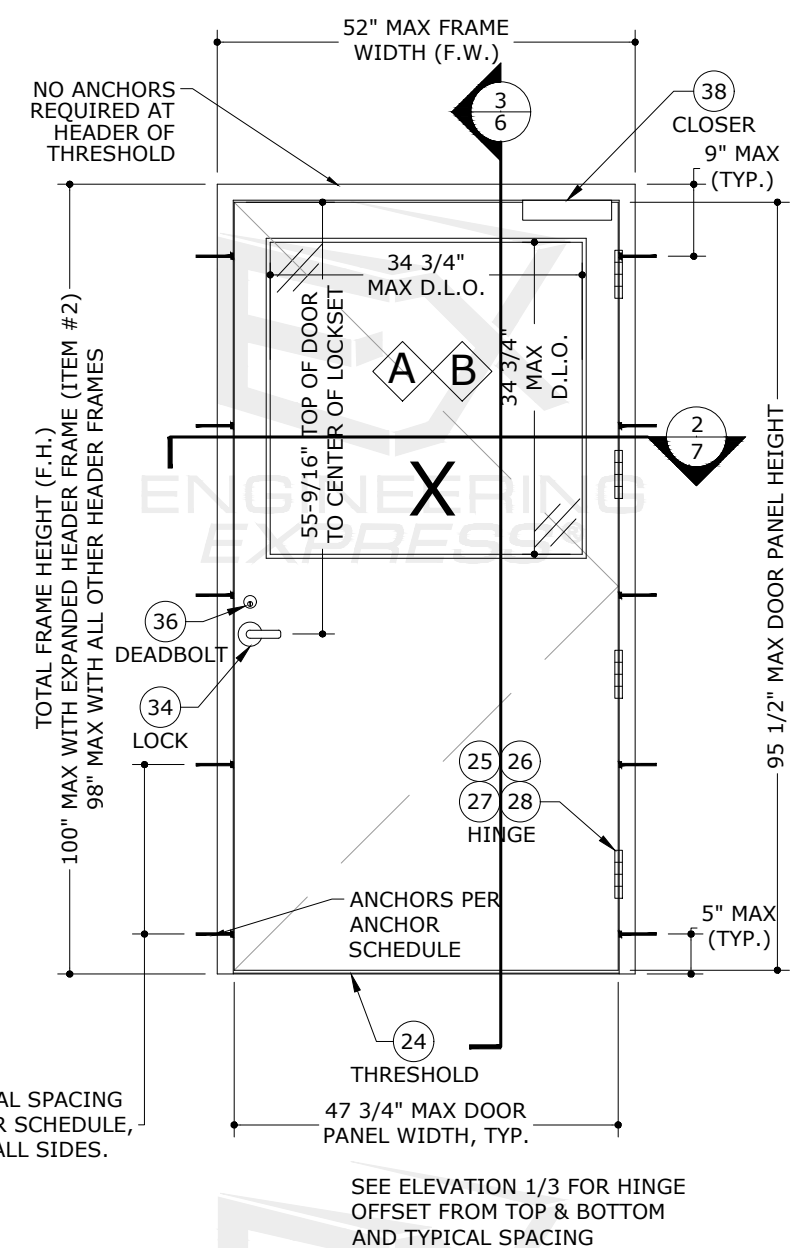
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1 TYPICAL DOUBLE DOOR
1/2" = 1'-0" EXTERIOR ELEV



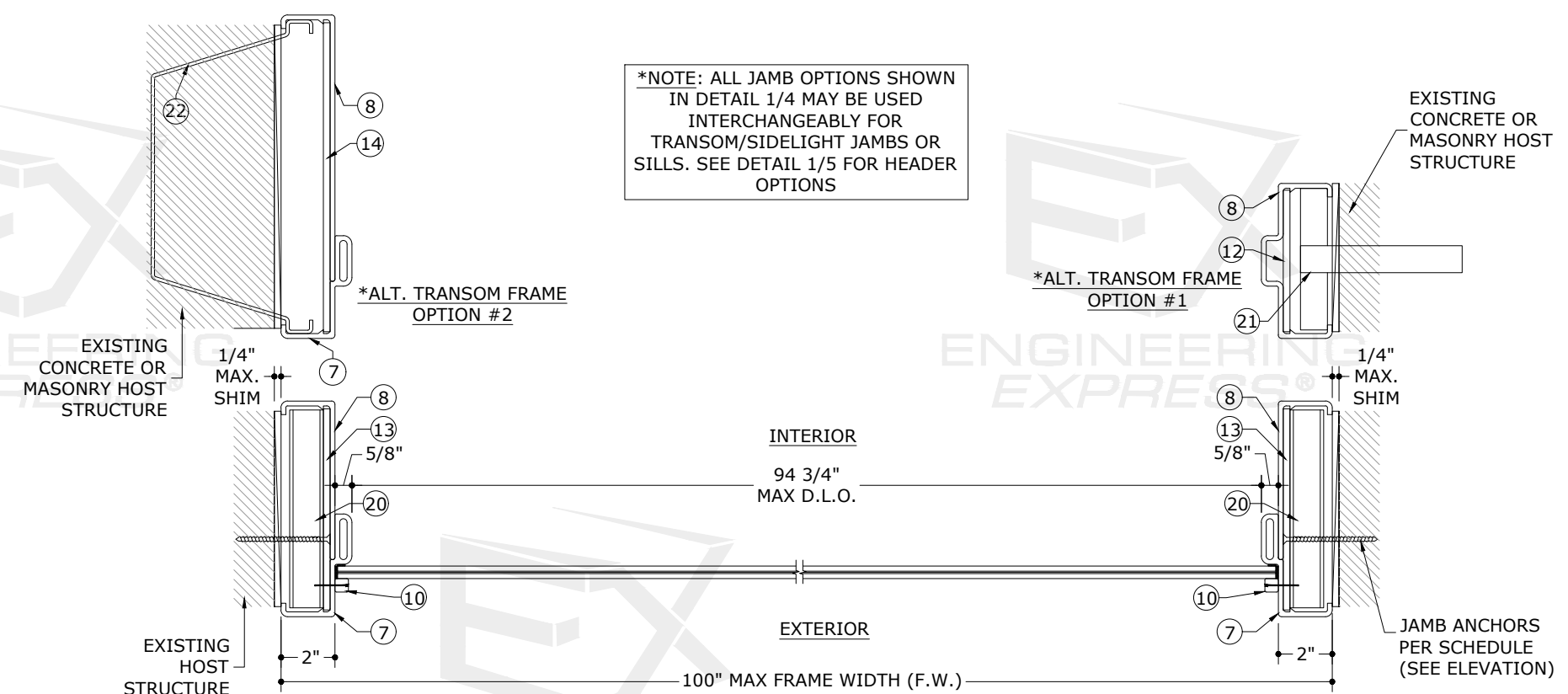
2 TYPICAL FIRE DOOR
1/2" = 1'-0" EXTERIOR ELEV



3 TYPICAL SINGLE DOOR
1/2" = 1'-0" EXTERIOR ELEV

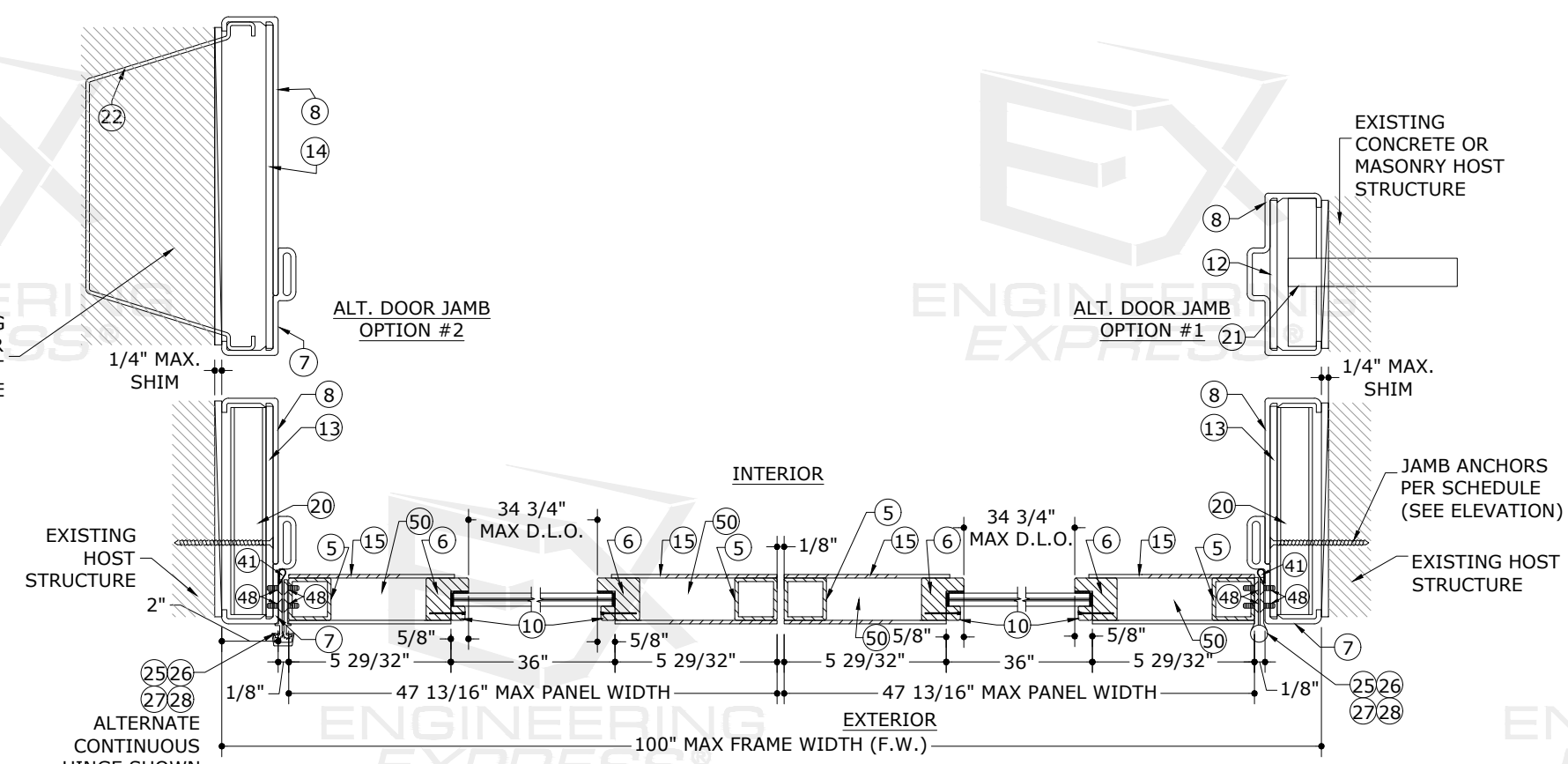
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*NOTE: ALL JAMB OPTIONS SHOWN IN DETAIL 1/4 MAY BE USED INTERCHANGEABLY FOR TRANSOM/SIDELIGHT JAMBS OR SILLS. SEE DETAIL 1/5 FOR HEADER OPTIONS

1 TYPICAL TRANSOM
4 2" = 1'-0" HORIZ SECTION



2 TYPICAL DOUBLE DOOR
4 2" = 1'-0" HORIZ SECTION

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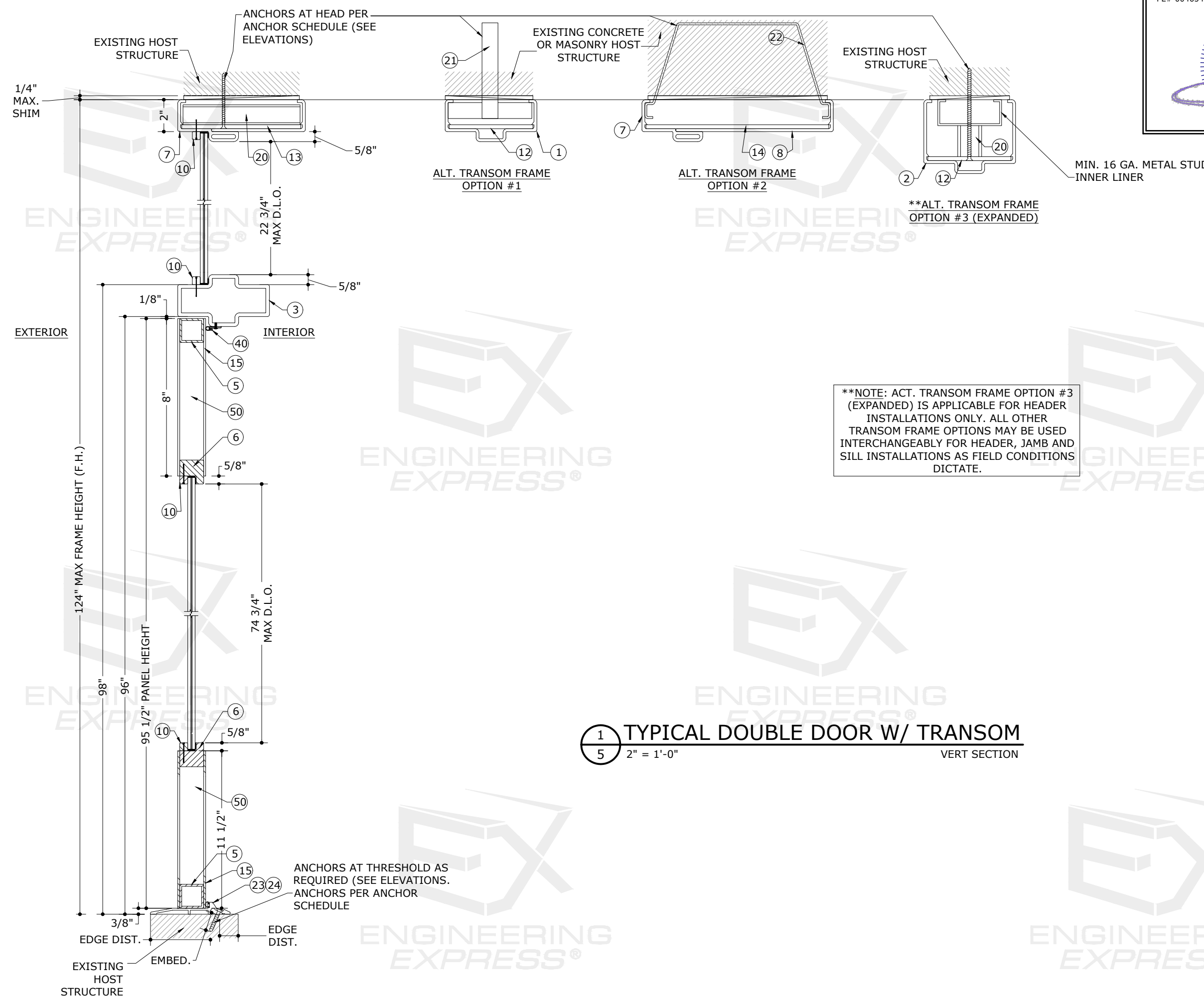
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****NOTE: ACT. TRANSOM FRAME OPTION #3 (EXPANDED) IS APPLICABLE FOR HEADER INSTALLATIONS ONLY. ALL OTHER TRANSOM FRAME OPTIONS MAY BE USED INTERCHANGEABLY FOR HEADER, JAMB AND SILL INSTALLATIONS AS FIELD CONDITIONS DICTATE.**

1 TYPICAL DOUBLE DOOR W/ TRANSOM
5 2" = 1'-0" VERT SECTION

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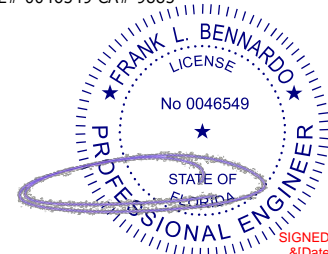
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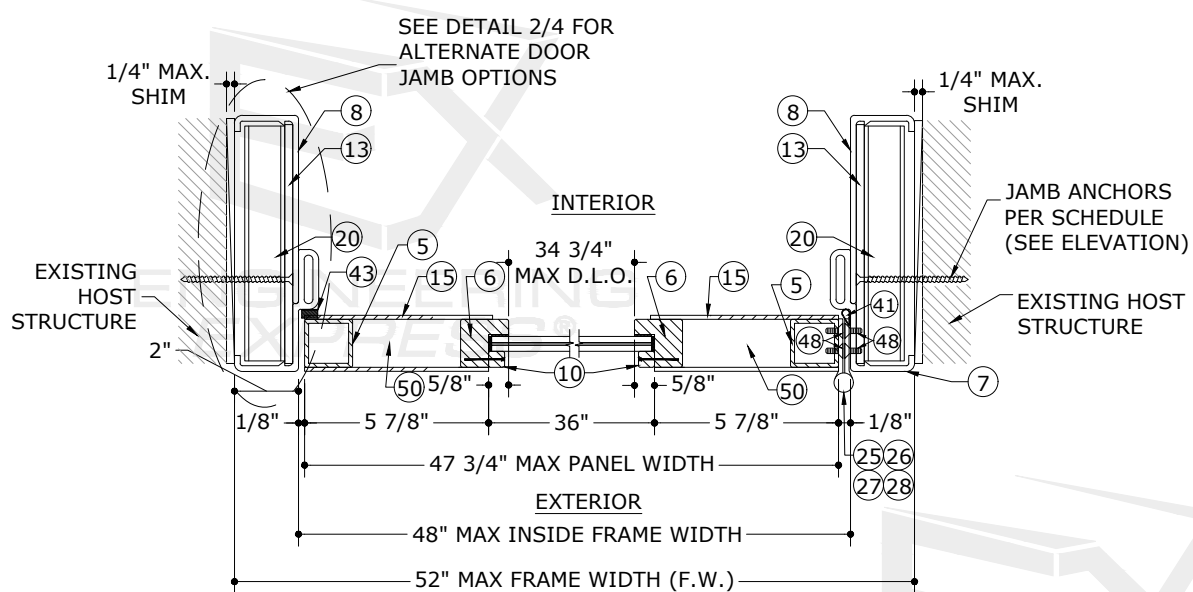
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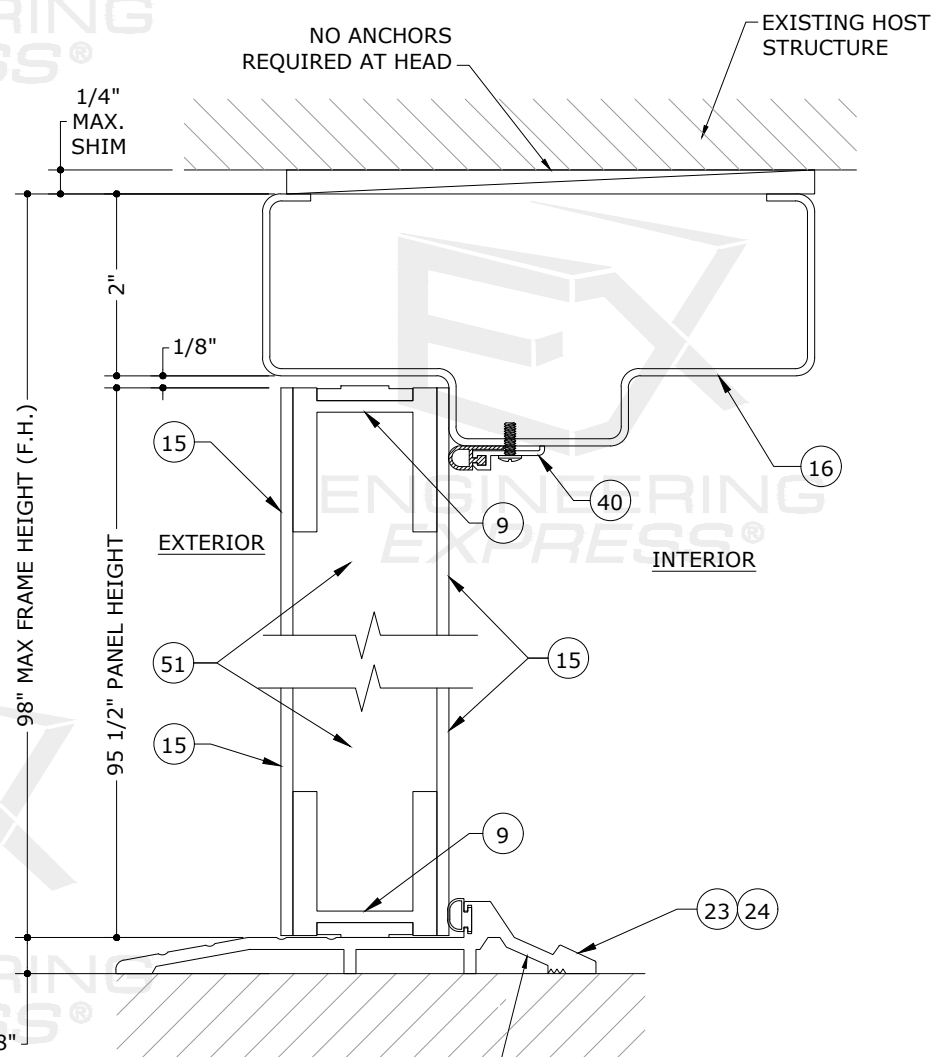


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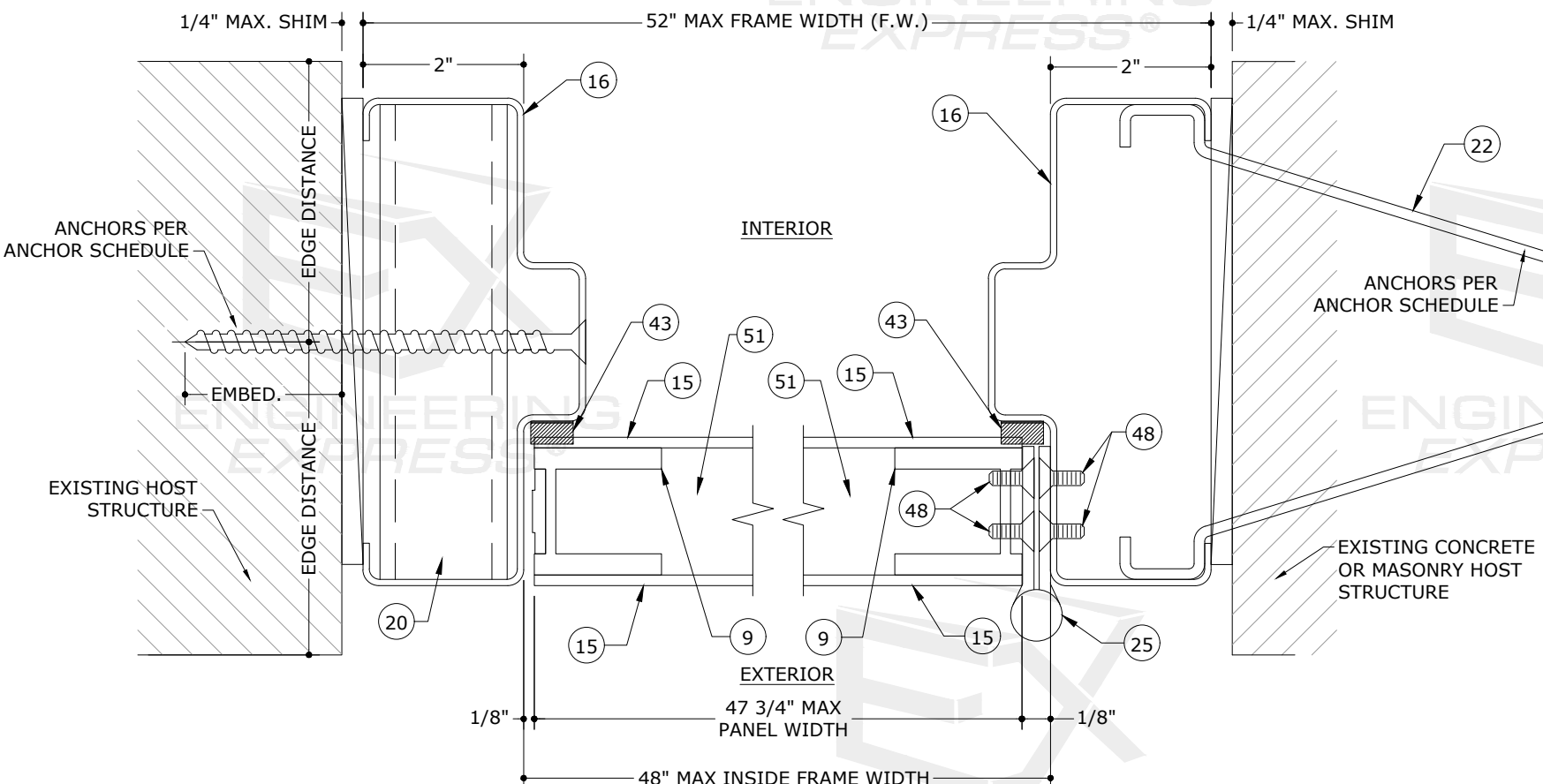


1 TYPICAL GLAZED SINGLE DOOR
7 2" = 1'-0" HORIZ SECTION

NOTE: NO THRESHOLD OR HEADER ANCHORS REQUIRED FOR SINGLE-DOOR INSTALLATIONS



3 TYPICAL FIRE SINGLE DOOR
7 6" = 1'-0" VERT SECTION



2 TYPICAL FIRE SINGLE DOOR
7 6" = 1'-0" HORIZ SECTION

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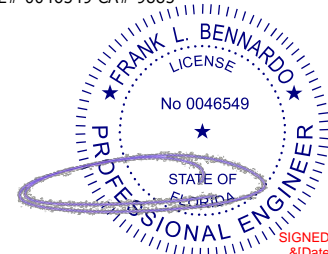
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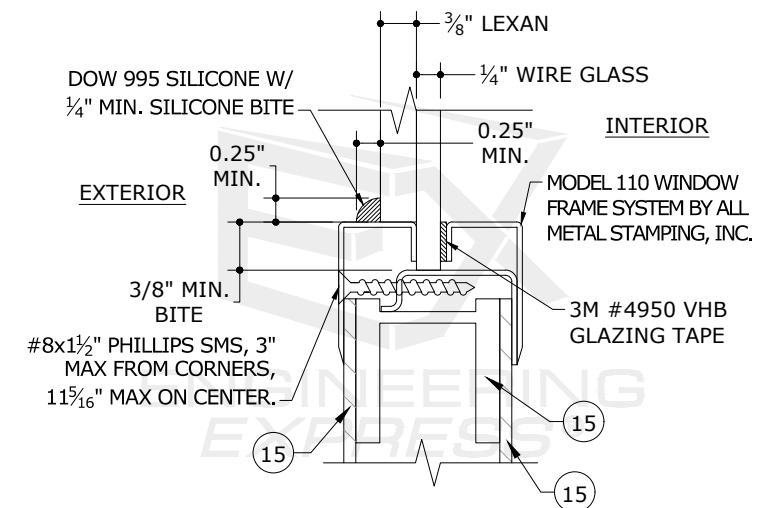
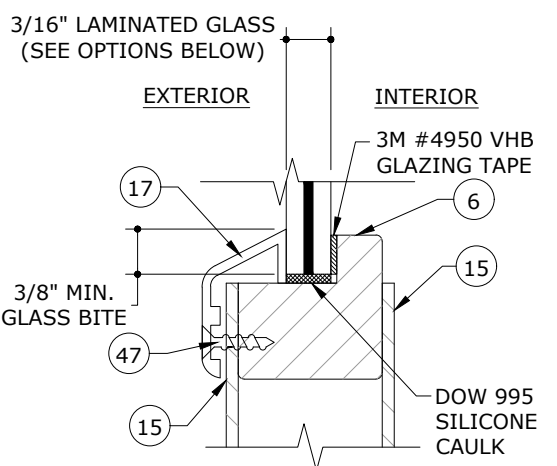
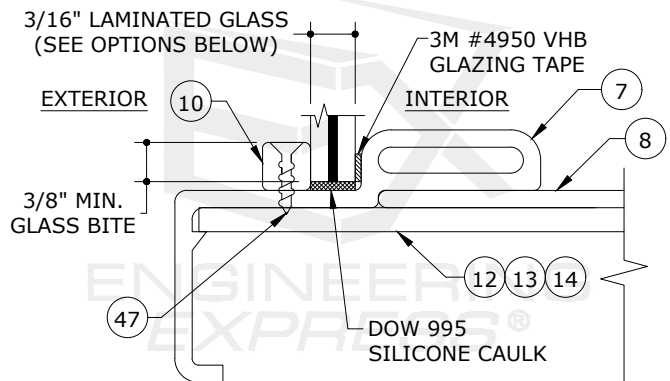
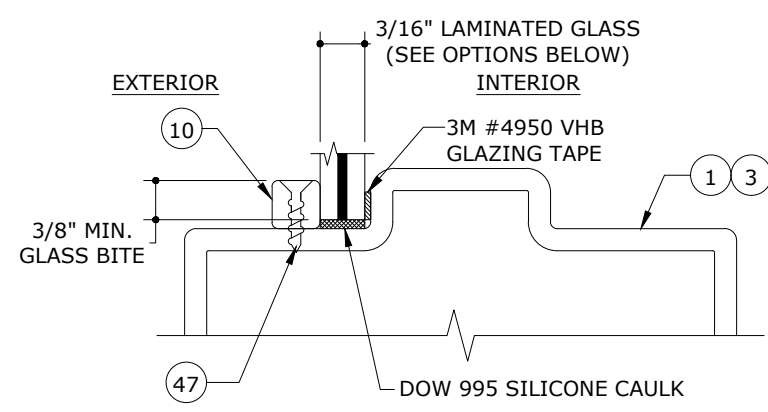
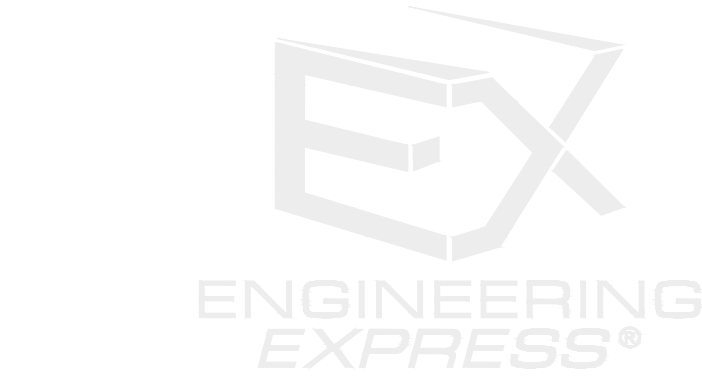
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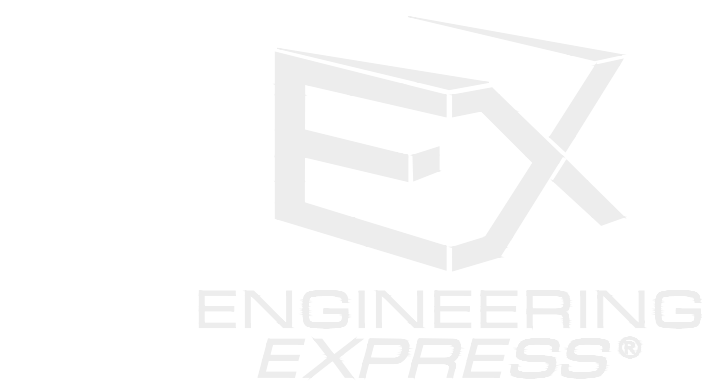
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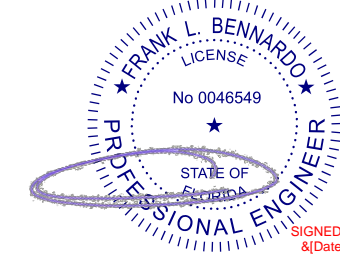
FIRE DOOR GLAZING DETAIL
 FOR USE ONLY WITH FIRE DOOR AND GLAZING TYPE 'C'

- GLAZING TYPES:
- Ⓐ 3/16" H.S. / 0.090" SOLUTIA SAFLEX PVB INTERLAYER / 3/16" H.S.
 - Ⓑ 3/16" H.S. / 0.075" OLDCASTLE GLASS STORMGLASS INTERLAYER / 3/16" H.S.
 - Ⓒ 1/4" WIRE GLASS W/ 3/8" EXTERIOR LEXAN (FOR USE ONLY WITH FIRE DOOR)

1 TYPICAL GLAZING DETAILS
 8 N.T.S. VERT SECTION



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ANCHOR SCHEDULE:

SUBSTRATE	ANCHOR	MAXIMUM TYPICAL SPACING				MINIMUM ANCHOR CLUSTERS			
		AT HEAD W/ EXTENDED FRAME (PART #2)*	AT HEAD W/ ALL OTHER FRAMES*	AT JAMBS	AT THRESHOLD*	CENTER OF DOUBLE DOOR AT HEAD W/ EXTENDED FRAME (PART #2)	CENTER OF DOUBLE DOOR AT HEAD W/ ALL OTHER FRAMES	AT TRANSOM OR SIDELITE MULLION	CENTER OF DOUBLE DOOR AT THRESHOLD
HOLLOW CONCRETE BLOCK OR CONCRETE	1/4" ITW TAPCONS THROUGH WOOD BUCKS OR DIRECTLY INTO MASONRY/CONCRETE WITH 1-1/4" MINIMUM EMBEDMENT AND 2-1/2" MINIMUM EDGE DISTANCE	N/A	16" O.C. MAX	10.5" O.C. MAX	16" O.C. MAX	N/A	CLUSTER OF (7) ANCHORS SPACED 3" O.C.	CLUSTER OF (8) ANCHORS SPACED 3" O.C.	CLUSTER OF (7) ANCHORS SPACED 3" O.C.
	5/16" ITW TAPCONS THROUGH WOOD BUCKS OR DIRECTLY INTO MASONRY/CONCRETE WITH 1-3/4" MINIMUM EMBEDMENT AND 4" MINIMUM EDGE DISTANCE	16" O.C. MAX	16" O.C. MAX	16" O.C. MAX	16" O.C. MAX	CLUSTER OF (8) ANCHORS SPACED 3-3/4" O.C.	CLUSTER OF (3) ANCHORS SPACED 3-3/4" O.C.	CLUSTER OF (4) ANCHORS SPACED 3-3/4" O.C.	CLUSTER OF (3) ANCHORS SPACED 3-3/4" O.C.
	"T" MASONRY ANCHOR	24" O.C. MAX.	24" O.C. MAX.	24" O.C. MAX.	N/A	(2) ANCHORS AT CENTER SPACED 16" O.C.	(2) ANCHORS AT CENTER SPACED 16" O.C.	(2) ANCHORS CENTERED AT MULLION SPACED 8" O.C.	N/A
	WIRE MASONRY ANCHOR	24" O.C. MAX.	24" O.C. MAX.	24" O.C. MAX.	N/A	(1) ANCHOR AT CENTER	(1) ANCHOR AT CENTER	(1) ANCHOR CENTERED AT MULLION	N/A
WOOD BUCK OR WOOD HOST STRUCTURE (G=0.55 MINIMUM)	#14 WOOD SCREW WITH 1-1/2" MINIMUM THREAD PENETRATION AND 3/4" MINIMUM EDGE DISTANCE	N/A	16" O.C. MAX	10.5" O.C. MAX	16" O.C. MAX	N/A	CLUSTER OF (7) ANCHORS SPACED 3" O.C.	CLUSTER OF (6) ANCHORS SPACED 3" O.C.	CLUSTER OF (6) ANCHORS SPACED 3" O.C.
	#20 WOOD SCREW WITH 2" MINIMUM THREAD PENETRATION AND 3/4" MINIMUM EDGE DISTANCE	16" O.C. MAX	16" O.C. MAX	14" O.C. MAX	16" O.C. MAX	CLUSTER OF (8) ANCHORS SPACED 3" O.C.	CLUSTER OF (5) ANCHORS SPACED 3" O.C.	CLUSTER OF (4) ANCHORS SPACED 3" O.C.	CLUSTER OF (5) ANCHORS SPACED 3" O.C.

ANCHOR NOTES:

- USE IN CONJUNCTION WITH EXTERIOR ELEVATIONS FOR ANCHOR LOCATIONS AND/OR SPACING.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. 1/4" TAPCONS SHALL BE STAINLESS STEEL ONLY.
- WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- "T" MASONRY ANCHOR SHALL BE ASTM A36 STEEL MINIMUM WITH MINIMUM DIMENSIONS OF 1" WIDTH AND 1/8" THICKNESS. EMBEDMENT SHALL BE 9" MINIMUM TO 1800 PSI MASONRY WALL MINIMUM.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
- WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
- ANCHORAGE WITH TAPCONS OR WOOD SCREWS REQUIRES USE OF FRP BLOCK (PART #20).
- * NO ANCHORAGE IS REQUIRED AT THE HEAD OR THRESHOLD OF SINGLE DOOR INSTALLATIONS

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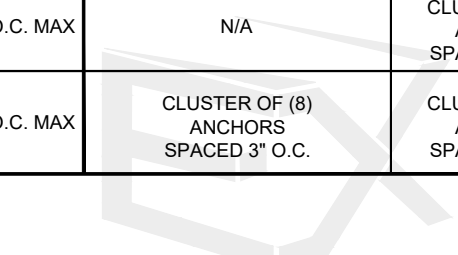
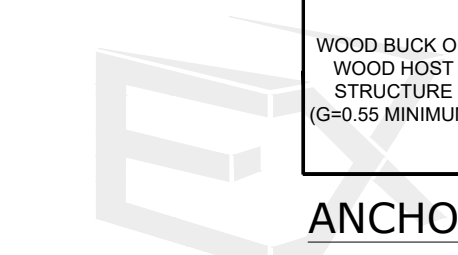
CORRIM COMPANY FRP, LLC
 1870 STILLMAN DRIVE
 OSHKOSH, WI 54901
 (920) 231-2000
 FIBERGLASS OUTSWING DOOR
 FLORIDA BUILDING CODE EIGHTH EDITION (2023)
 FLORIDA STATEWIDE APPROVAL (FSA FL#14311.1)

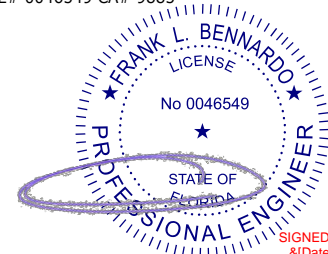
REMARKS	DRWN	CHKD	DATE
PREV. SUBMITTAL (20-28684)	CCB	RWV	07/07/20
2023 FBC UPDATE	MRT	RWV	10/16/23

23-62474

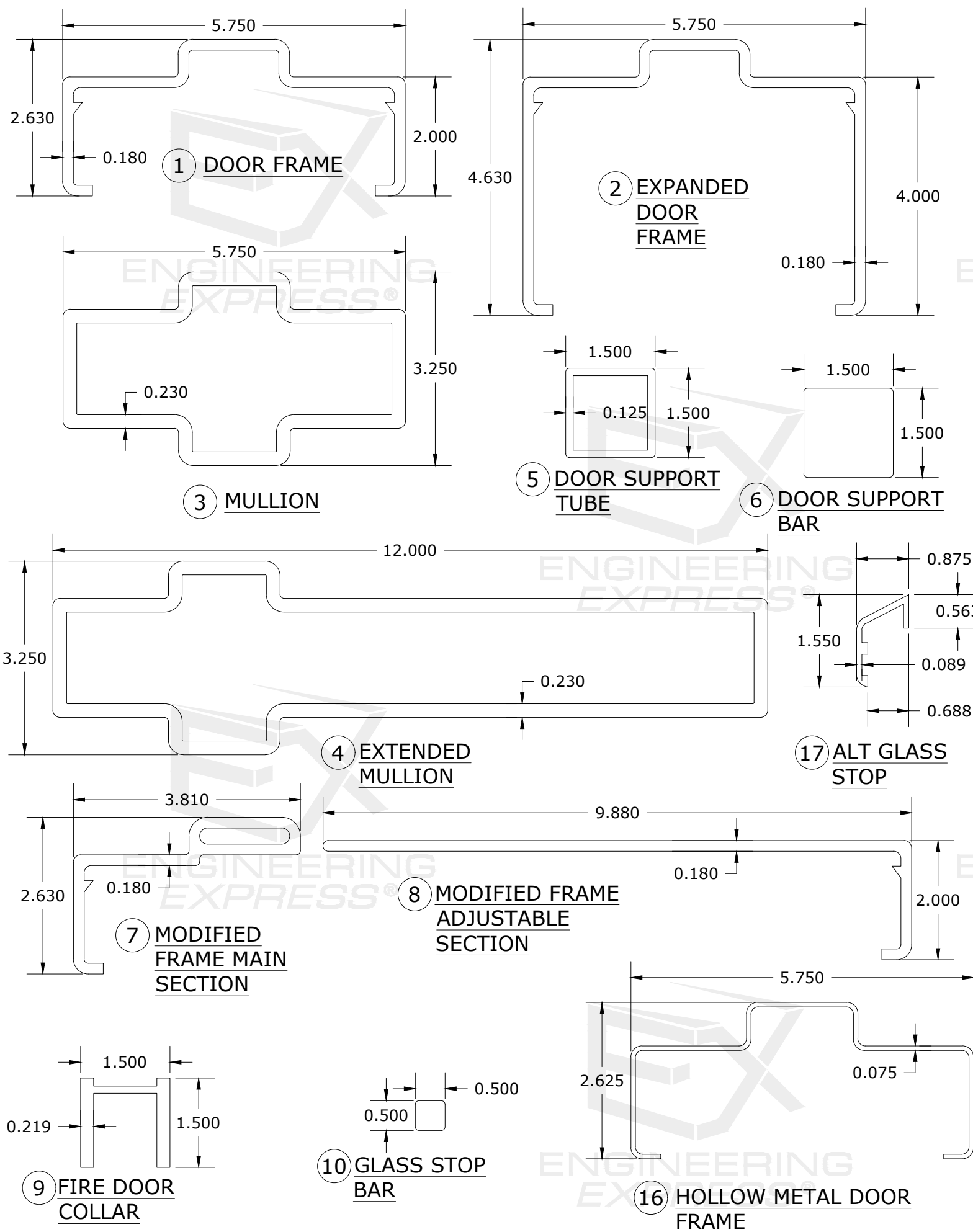
SCALE: NTS UNLESS NOTED

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ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	FBC-100-15-50	DOOR FRAME	FIBERGLASS
2	FBC-100-33-50	EXPANDED DOOR FRAME	FIBERGLASS
3	FBC-100-6-50	MULLION	FIBERGLASS
4	FBC-100-6-50	EXTENDED MULLION	FIBERGLASS
5	FBC-100-17-50	DOOR SUPPORT TUBE	FIBERGLASS
6	FBC-100-19-50	DOOR SUPPORT BAR	FIBERGLASS
7	FBC-100-26-50	MODIFIED FRAME MAIN SECTION	FIBERGLASS
8	FBC-100-27-50	MODIFIED FRAME ADJUSTABLE SECTION	FIBERGLASS
9	FBC-100-30-50	FIRE DOOR COLLAR	FIBERGLASS
10	FBC-100-9-50	GLASS STOP BAR	FIBERGLASS
12	FBC-100-7-50	HARDWARE PLATE .1875" X 5.25" X 8"	FIBERGLASS
13	FBC-100-7-50	HARDWARE PLATE .1875" X 7.5" X 8"	FIBERGLASS
14	FBC-100-7-50	HARDWARE PLATE .1875" X 11.5" X 8"	FIBERGLASS
15	FBC-100-34-50	DOOR FACE SHEET .090-.120" THICK	FIBERGLASS
16	-	HOLLOW METAL DOOR FRAME	CORRIM
17	-	ALTERNATE GLASS STOP	RIGID PVC
HARDWARE			
20	-	FRP BLOCK (1.25" X 1.25" X .125" WALL)	CORRIM
21	-	T-STRAP	CORRIM
22	-	ADJUSTABLE WIRE ANCHOR	CORRIM
23	-	ADA DOOR THRESHOLD	HAGER #520S
24	-	ADA DOOR THRESHOLD	HAGER #477S
25	-	HINGE, 4 1/2" X 4 1/2" STANDARD	HAGER #BB1279
26	-	HINGE, 4 1/2" X 4 1/2" HEAVY WEIGHT	HAGER #BB1168
27	-	HINGE, CONTINUOUS GEAR HEAVY WEIGHT	ROTON #780-112HD
28	-	HINGE, CONTINUOUS GEAR HEAVY WEIGHT	ROTON #780-224HD
29	-	LOCK SET	CORBIN MORTISE #ML2051
30	-	SURFACE BOLT LOCK	HAGER #275D
31	-	LOCK SET	CORBIN #CL3651
32	-	LOCK SET	HAGER #3400
33	-	LOCK SET, RIM EXIT DEVICE	PRECISION #1100 X 39L
34	-	LOCK SET	HAGER #3500
35	-	DEAD BOLT	CORBIN #DL3013
36	-	DEAD BOLT	HAGER #3100
37	-	DEAD BOLT	SCHLAGE #B660P
38	-	DOOR CLOSER	HAGER #5100
SEALS & SEALANTS			
40	-	JAMB WEATHERSTRIPPING	HAGER #891S
41	-	PRESS-ON WEATHERSTRIPPING	HAGER #726S
42	-	ASTRAGAL WEATHERSTRIPPING	HAGER #875S
43	-	PRESS-ON WEATHERSTRIPPING	HAGER #725S
FASTENERS			
47	-	NO. 6 X 3/4" S.S. FH SMS	1 1/2" FROM CORNERS & 5" TO 6" O.C.
48	-	NO. 12-24 X 1-1/4" S.S. FH SCREW	4 PER HINGE LEAF
MISCELLANEOUS ITEMS			
50	FBC-100-36-50	BALSA WOOD FILLER	-
51	FBC-100-37-50	MINERAL CORE FIRE DOOR FILLER	-

- THE FOLLOWING ALTERNATE HARDWARE OPTIONS ARE APPROVED FOR USE WITH THIS PRODUCT:
- HAGER 3200 SERIES DEADBOLT (WITHOUT LOCKSET): FL PRODUCT APPROVAL FL22010.3
 - CORBIN RUSSWIN CL3100 CYLINDER LATCH AND DL3000 DEAD BOLT: FL PRODUCT APPROVAL FL3067.3
 - YALE 8800 LOCKSET: FL PRODUCT APPROVAL FL3063.16
 - CAL-ROYAL NM-MORTISE LOCK: FL PRODUCT APPROVAL FL13922
 - DORMAKABA M9000 LOCKSET: FL PRODUCT APPROVAL FL16734.7
 - HAGER 4500 SVR EXIT DEVICE: FL PRODUCT APPROVAL FL23130.7 & NOA 21-0318.12 (OR CURRENT NOA VERSION IF SUPERCEDED)
 - VON DUPRIN 98/9927F AND/OR FALCON F-25-V SVR PANIC EXIT DEVICE: FL PRODUCT APPROVAL FL14482.3
 - DORMA 9400 SVR PANIC EXIT: FL PRODUCT APPROVAL FL31964.3
 - DETEX HV40 RIM EXIT DEVICE: FL PRODUCT APPROVAL FL19181.1
 - DORMAKABA HC2100 RIM EXIT DEVICE AND HCK822 REMOVABLE MULLION: FL PRODUCT APPROVAL FL16202.6
 - CORBIN RUSSWIN FE5400S: UL APPROVAL ZHLLR21836

***ALTERNATE HARDWARE NOTE: USE OF THE ALTERNATE HARDWARE OPTIONS LISTED REQUIRES THE THE MAXIMUM ALLOWABLE DESIGN PRESSURE TO BE LIMITED TO THE ALLOWABLE DESIGN PRESSURE OF THE LOWEST APPROVAL PART**

FL 14311.1

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