



2501 Northchase Parkway SE
Wilmington, NC 28405
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SERIES BORROW LITE STEEL FRAME - IMPACT
TRANSOM – SIDELIGHT FOR SWINGING DOOR
ASSEMBLIES

GENERAL NOTES

1. THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE 7TH EDITION (2020) FLORIDA BUILDING CODE (FBC) REQUIREMENTS EXCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND HAS BEEN EVALUATED TO THE FOLLOWING.

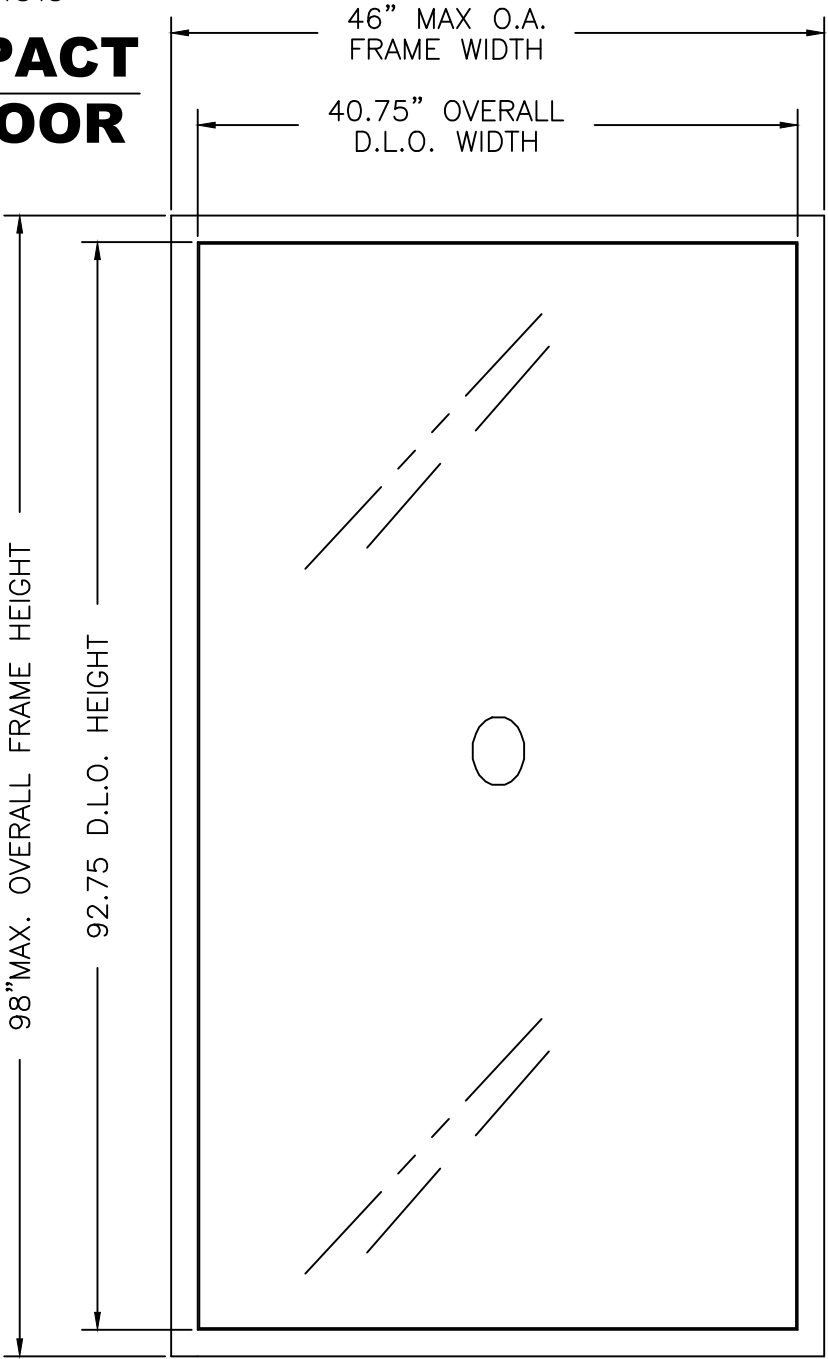
1.1. ASTM E330-02

1.2. ASTM E1886-05

1.3. ASTM E1996-09
2. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
3. WHEN USED IN AREAS REQUIRING WIND BORNE DEBRIS PROTECTION, THIS PRODUCT COMPLIES WITH SECTION 1609.1.2 OF THE FBC AND DOES NOT REQUIRE AN IMPACT RESISTANT COVERING. THIS PRODUCT MEETS MISSILE LEVEL "D" AND INCLUDES WIND ZONE 4 AS DEFINED IN ASTM E1996 AND SECTION 1609.1.2.2 OF THE FBC.
4. THIS PRODUCT DOES NOT MEET THE WATER INFILTRATION REQUIREMENTS OF THE FBC AND SHALL BE INSTALLED ONLY IN NON-HABITABLE AREAS OR AT HABITABLE LOCATIONS PROTECTED BY AN OVERHANG OR CANOPY SUCH THAT THE OVERHANG RATIO (OH) = OH LENGTH / OH HEIGHT IS EQUAL TO OR GREATER THAN 1.
5. SITE CONDITIONS THAT DEVIATE FROM THE DETAILS OF THIS DRAWING REQUIRE FURTHER ENGINEERING ANALYSIS BY A LICENSED ENGINEER OR REGISTERED ARCHITECT.
6. SEE MIAMI-DADE NOA NO. 21-0216.01 FOR EASTMAN CHEMICAL CO. SAFLEX PVB INTERLAYER COMPONENT APPROVAL.

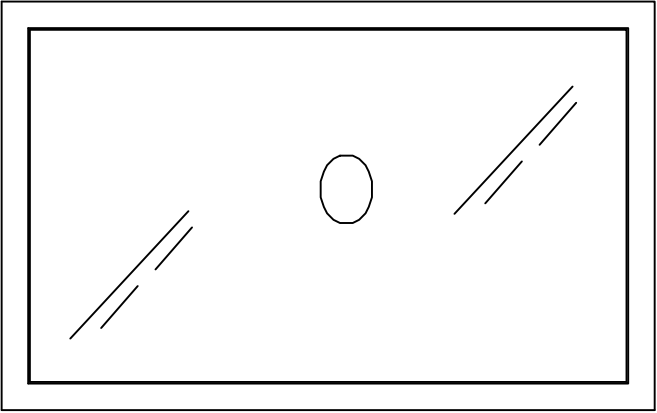
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VERTICAL ORIENTATION

MAXIMUM OVERALL DIMENSION	MAXIMUM D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
46"X98"	40.75"X92.75"	+65	-70
WIND ZONE 4, MISSILE LEVEL D IMPACT RATED			



HORIZONTAL ORIENTATION
OVERALL WIDTH AND HEIGHT FOR
FRAME AND DLO SHOWN FOR
VERTICAL ORIENTATION
APPLICABLE TO HORIZONTAL
ORIENTATION.

PROJECT # 420-1002

HMF EXPRESS

2501 NORTHCHASE PARKWAY SE
WILMINGTON, NC 28405

TITLE: SERIES BORROW LITE STEEL FRAME, IMPACT
TYP. ELEVATIONS, DESIGN PRESSURES AND GENERAL NOTES

PREPARED BY: DATE: 2/27/19

DRAWN BY: DAS

SCALE: N.T.S.

REV: A

DRAWING NO: HMF0006

SHEET: 1 OF 5

UPDATE TO 2020 FBC

A

REV

DESCRIPTION

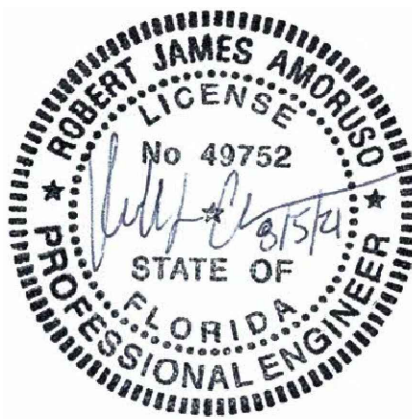
DATE

8/4/21

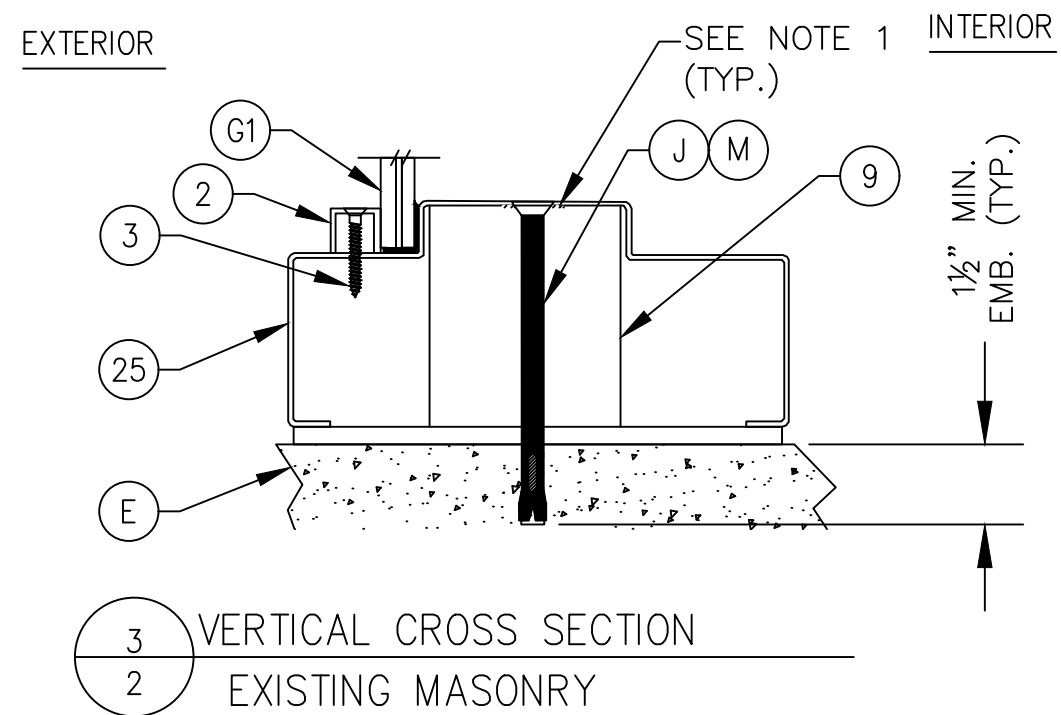
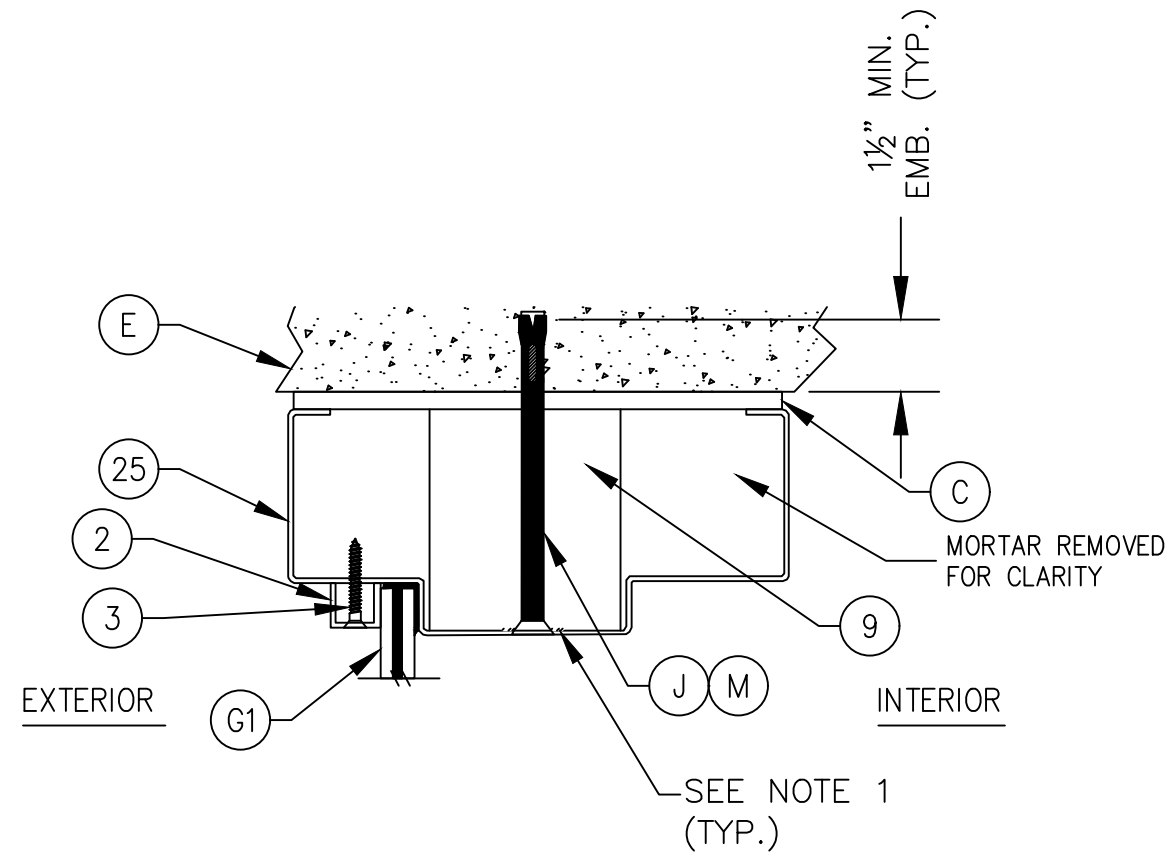
BY

RJA

Robert J. Amoruso, P.E.
Florida P.E. No. 49752



1. SPOT WELD ANCHOR BRACKET TO FRAME. 2 WELDS PER FLANGE (4 TOTAL PER BRACKET). ALTERNATIVELY MIG WELD, 1 PER FLANGE (2 TOTAL PER BRACKET).



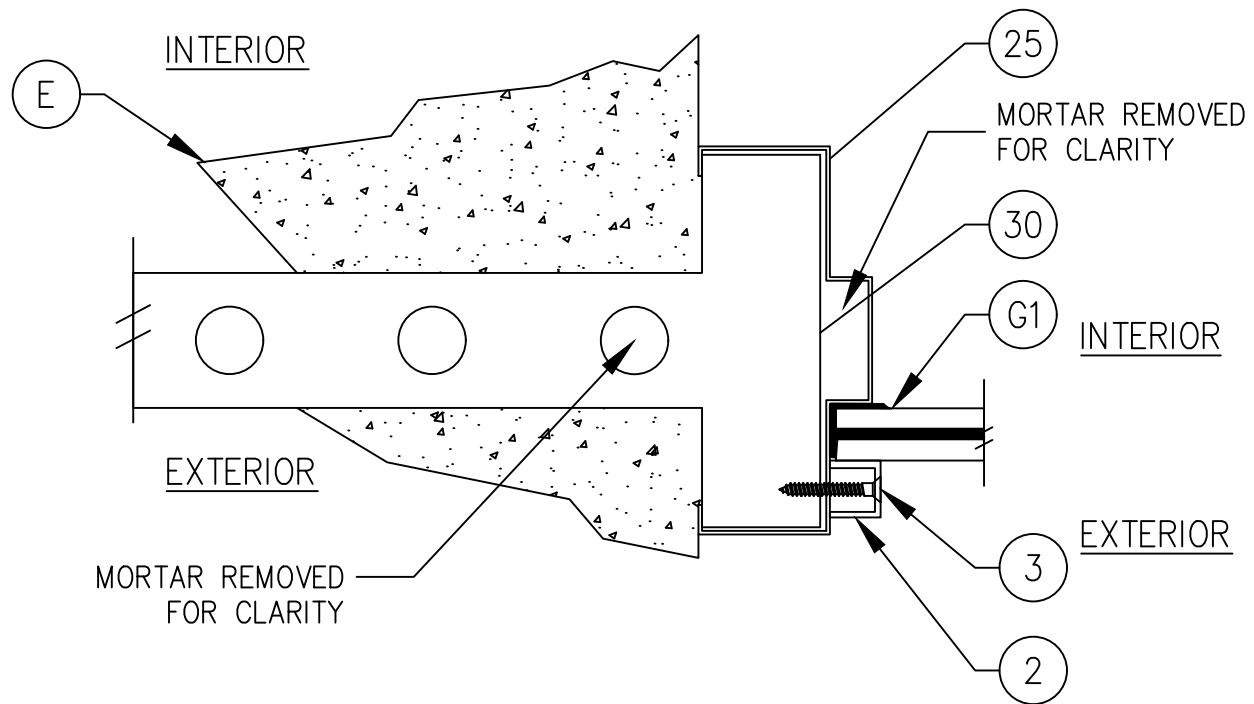
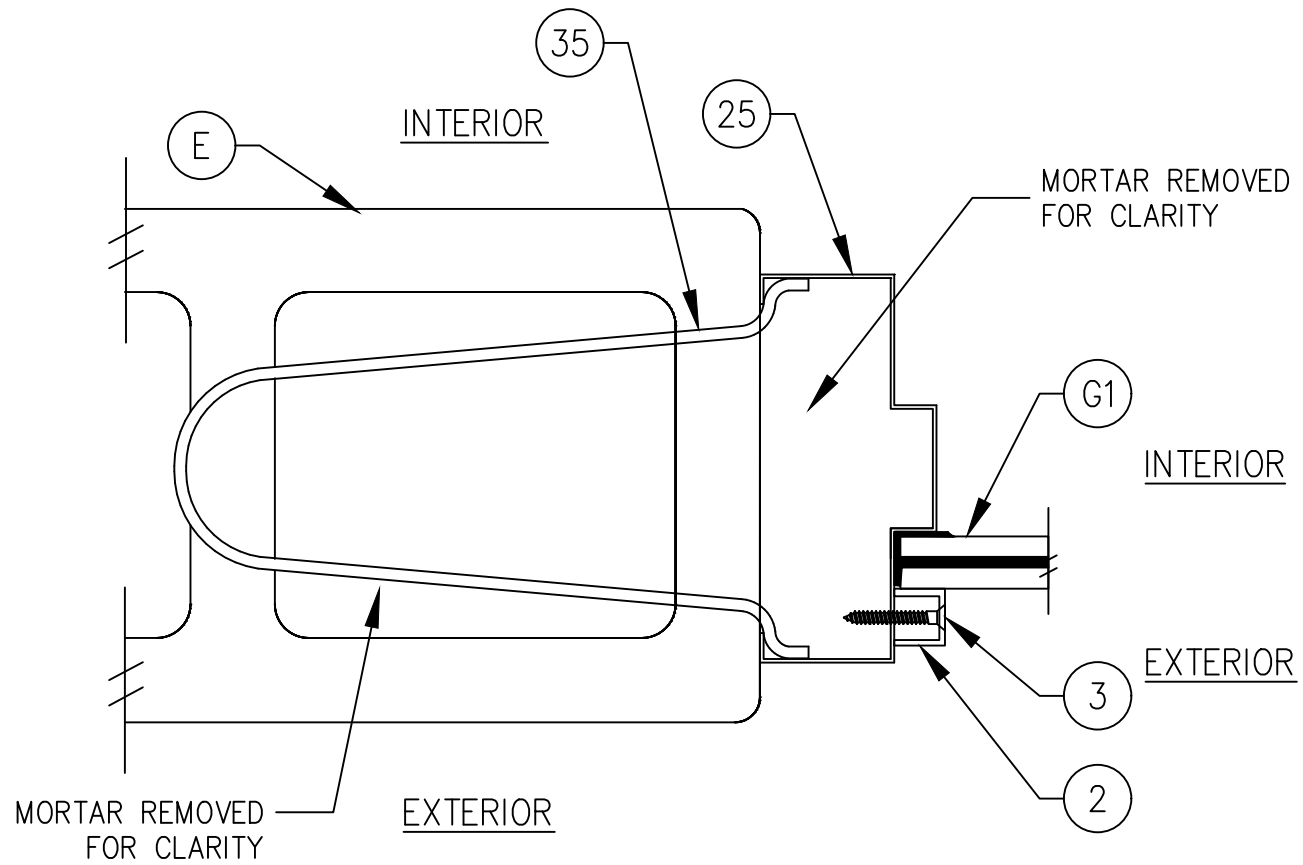
3 VERTICAL CROSS SECTION
2 EXISTING MASONRY

HMF EXPRESS						PROJECT # 420-1002			
2501 NORTHCASE PARKWAY SE									
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HORIZONTAL & VERTICAL CROSS SECTIONS									
PREPARED BY:						DRAWN BY:	DATE:		
						DAS	2/27/19		
						SCALE:	DRAWING NO:		
						N.T.S.	HMF0006		
						REV:	A	SHEET:	
								2 OF 5	
								DESCRIPTION	DATE
								UPDATE TO 2020 FBC	8/4/21
								A	RJA
								REV	BY

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1 HORIZONTAL CROSS SECTION
3 NEW MASONRY



2 HORIZONTAL CROSS SECTION
3 NEW MASONRY

PROJECT # 420-1002

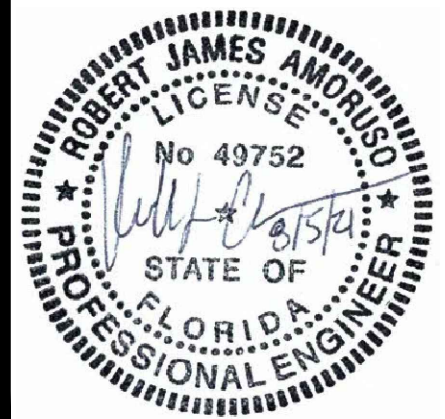
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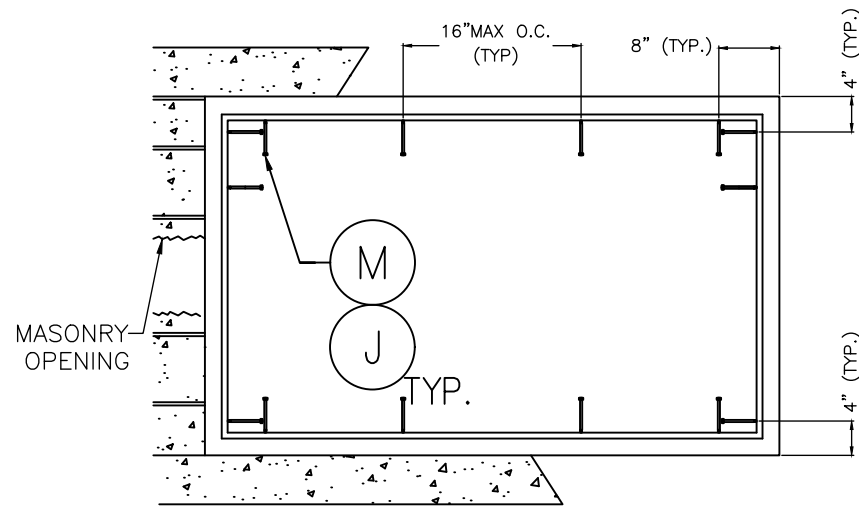
TITLE: SERIES BORROW LITE STEEL FRAME, IMPACT
HORIZONTAL CROSS SECTIONS

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SHEET:	3 OF 5

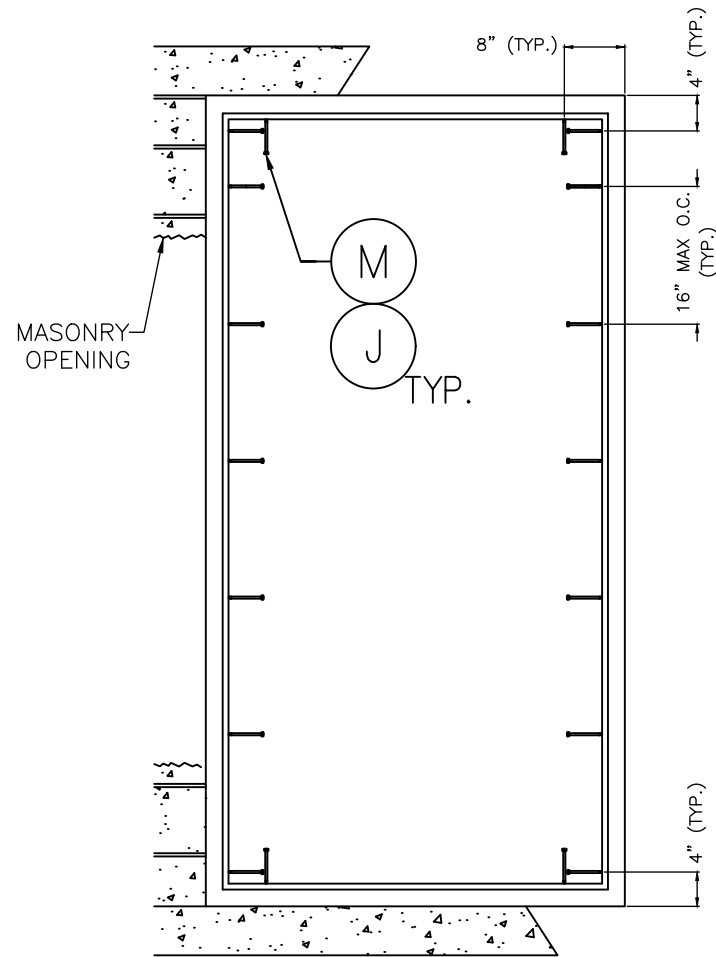
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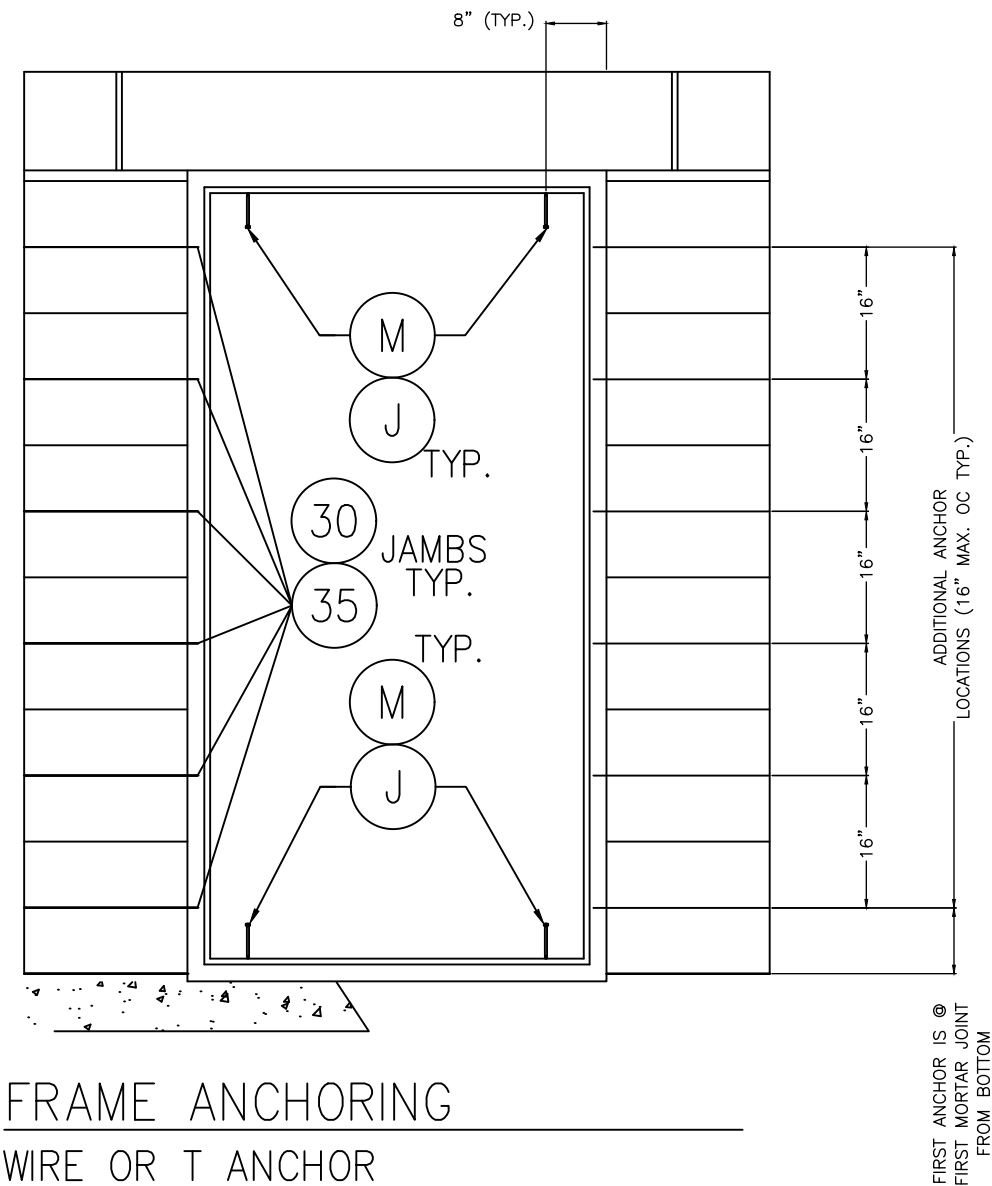




FRAME ANCHORING
EXISTING MASONRY



FRAME ANCHORING
EXISTING MASONRY



FRAME ANCHORING
WIRE OR T ANCHOR

CONCRETE ANCHOR NOTES:

1. CONCRETE SCREW LOCATIONS MAY BE ADJUSTED TO MAINTAIN A MINIMUM 1" EDGE DISTANCE TO MORTAR JOINTS. IF CONCRETE SCREW LOCATIONS NOTED AS "MAX. O.C." MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTAR JOINTS, ADDITIONAL CONCRETE SCREWS MAY BE REQUIRED TO ENSURE THE MAXIMUM ON CENTER DIMENSION IS NOT EXCEEDED.

2. CONCRETE ANCHOR TABLE:

ANCHOR TYPE	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	3/8"	LDT TAPCON (ITW BUILDEX)	3"	1-1/2"
CONCRETE SLEEVE ANCHOR	3/8"	DYNABOLT SLEEVE ANCHOR (ITW REDHEAD)	2-1/4"	1-1/2"

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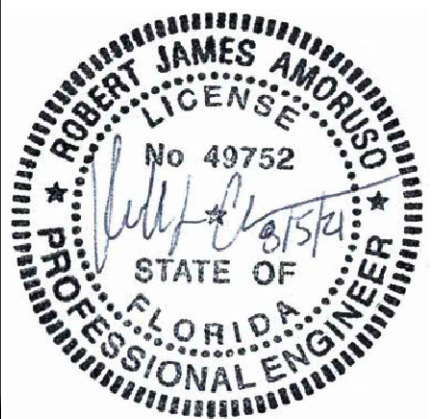
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SERIES BORROW LITE STEEL FRAME, IMPACT
ANCHORING DETAILS

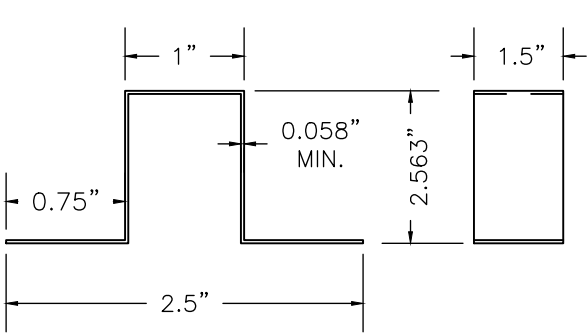
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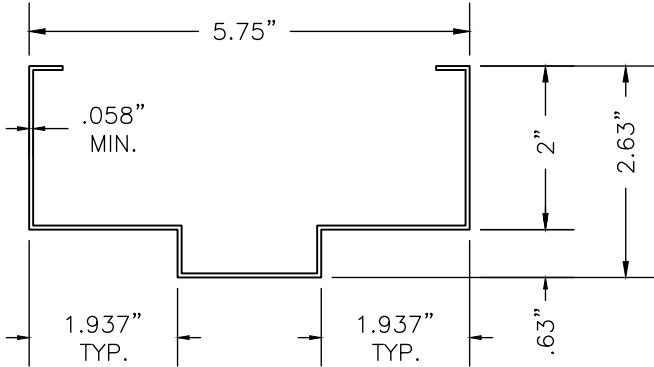
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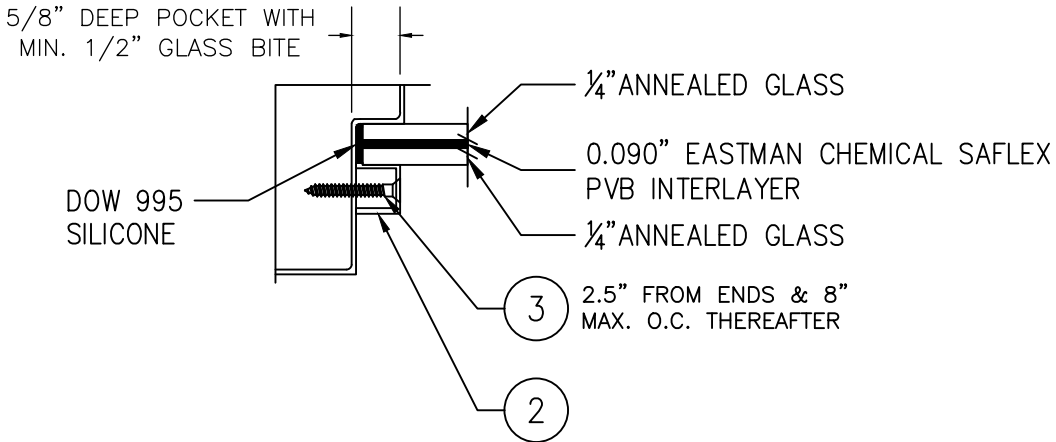
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERAILS
C	¼" MAX. SHIM SPACE	-
E	MASONRY- 2,500 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
J	¾" DIA. PFH DYNABOLT SLEEVE ANCHOR (SEE ANCHOR TABLE ON SHEET 4)	STEEL
M	¾" DIA. LDT TAPCON CONCRETE SCREW (SEE ANCHOR TABLE ON SHEET 4)	STEEL
2	GLAZING BEAD	STEEL
3	#6 X 1-1/4" PFH SMS	STEEL
9	ANCHOR BRACKET	STEEL
25	HOLLOW FRAME (2" JAMB), 16 GA. (MIN. 0.058" THK.)	STEEL
30	MASONARY "T" ANCHOR	STEEL
35	WIRE ANCHOR	STEEL



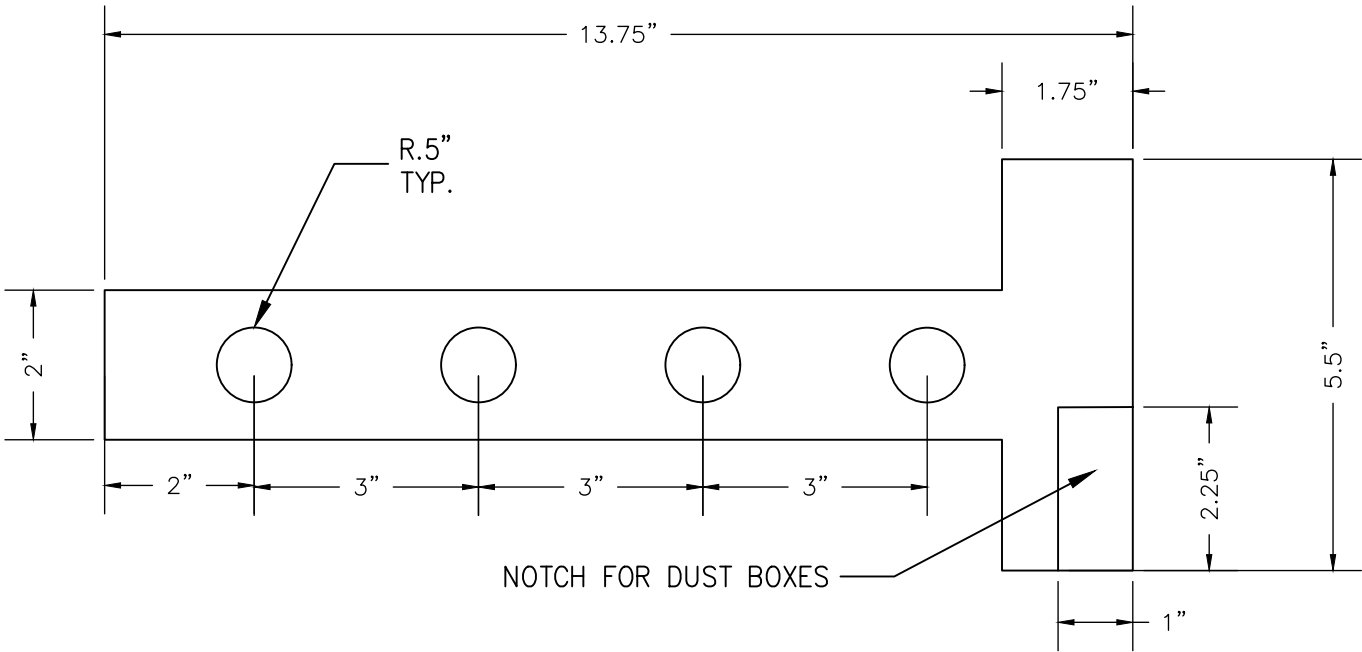
9 ANCHOR BRACKET



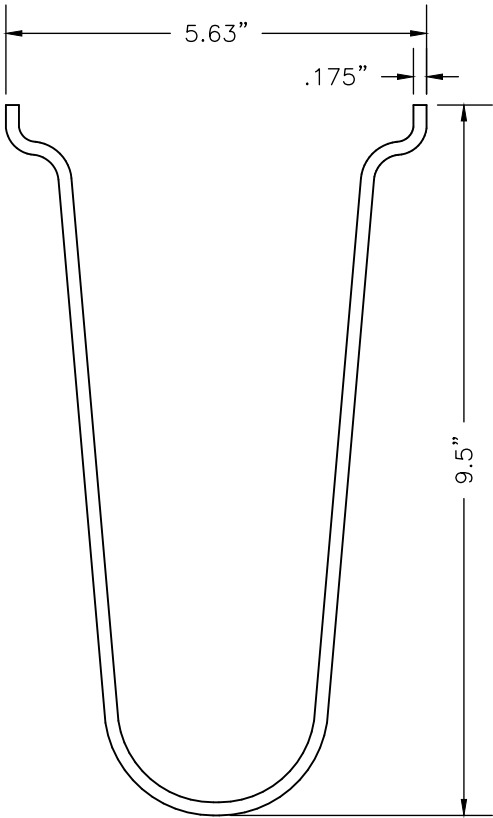
25 HOLLOW METAL FRAME
2" JAMB



G1 GLAZING DETAIL



30 "T" ANCHOR
0.058" THICK STEEL



35 WIRE ANCHOR

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