



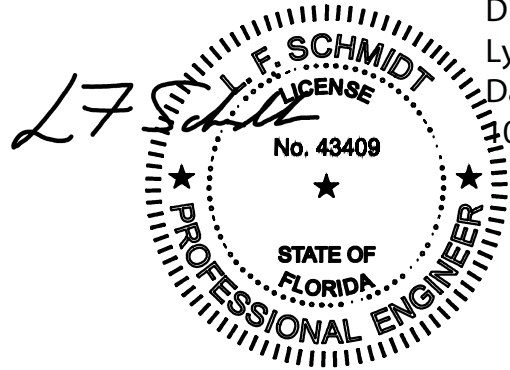
"SST" COMMERCIAL STEEL DOOR OUTSWING "IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
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 FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

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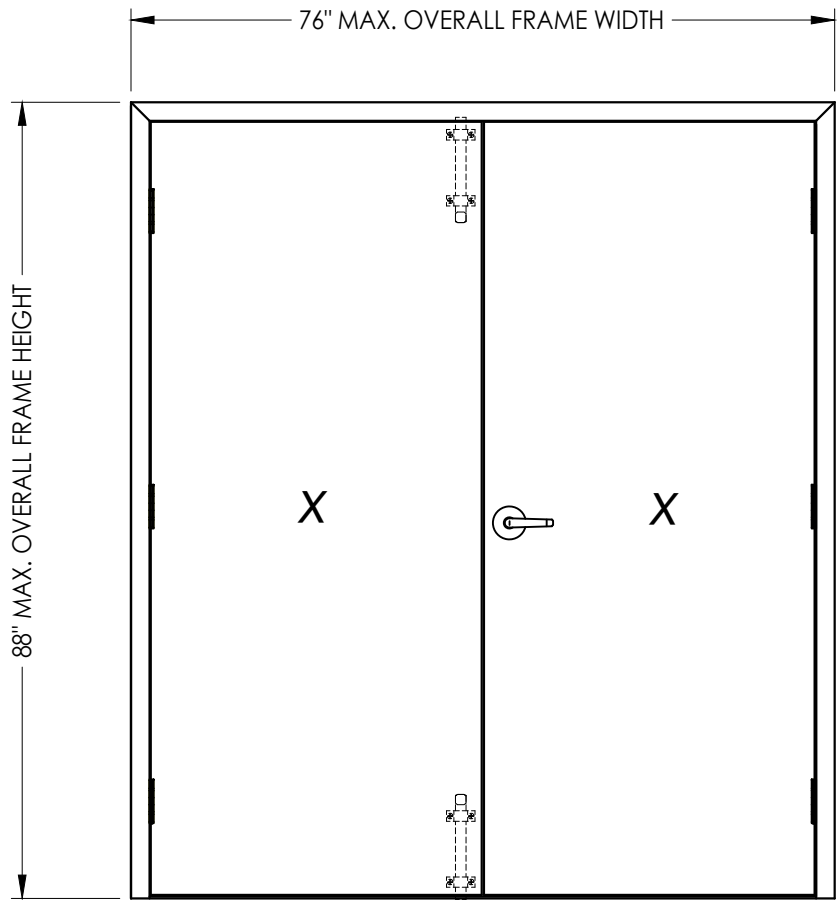
SHEET#	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Door panel details
3	Horizontal cross sections
4	Horizontal cross sections
5	Vertical cross sections
6	Frame anchoring
7	Frame anchoring
8	Frame anchoring
9	Bill of materials & components



Digitally signed by
Lyndon F Schmidt
Date: 2024.11.13
10:20:17 -05'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



CYLINDRICAL LOCK or MORTISE LOCK
w/ SURFACE BOLTS

CONFIGURATION	MAX FRAME DIMENSION	DOOR	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
DOUBLE	76.0" x 88.0"	16 GA.	+55.0	-55.0

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: MPI
COMMERCIAL STEEL DOOR
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

REVISIONS

DATE: 8/27/24

SCALE: N.T.S.

DWG. BY: LFS

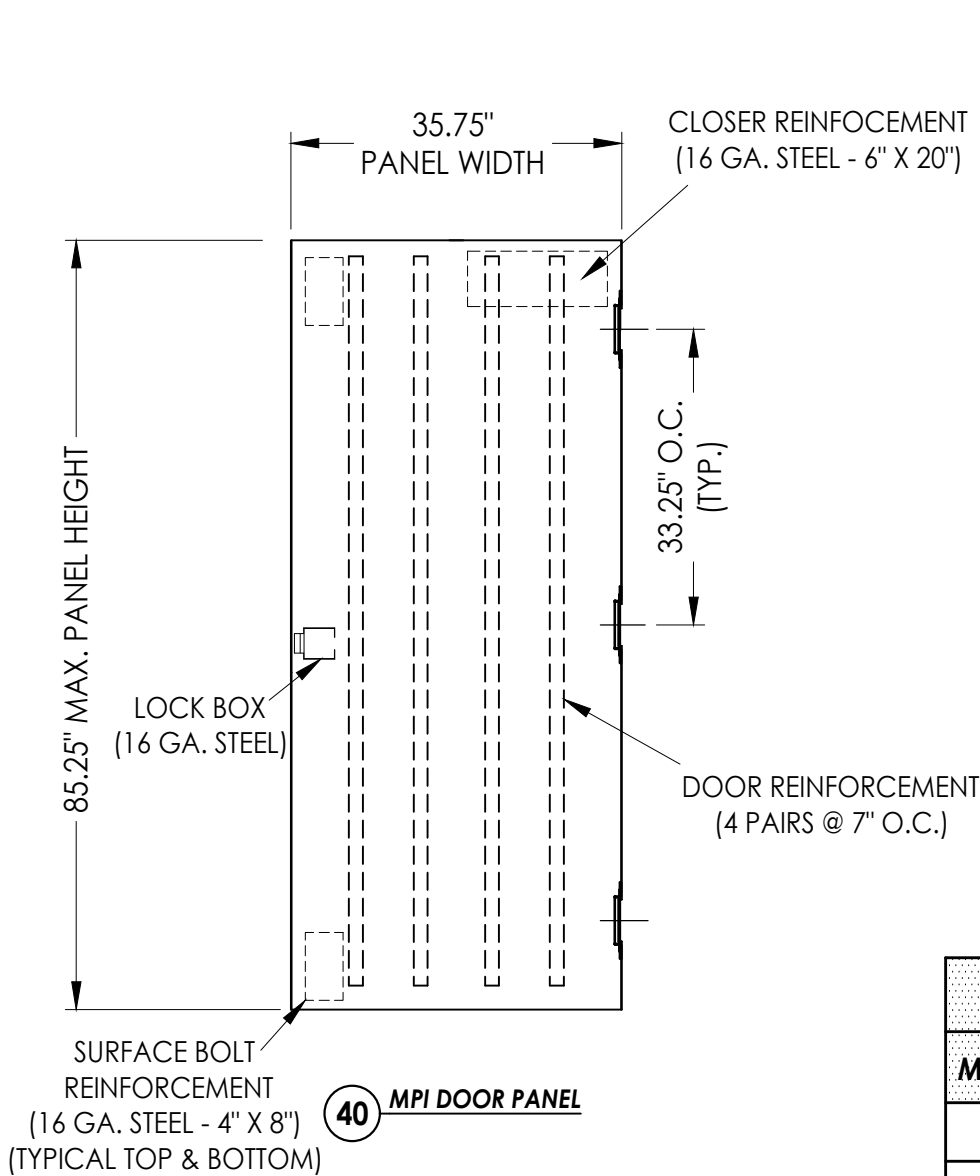
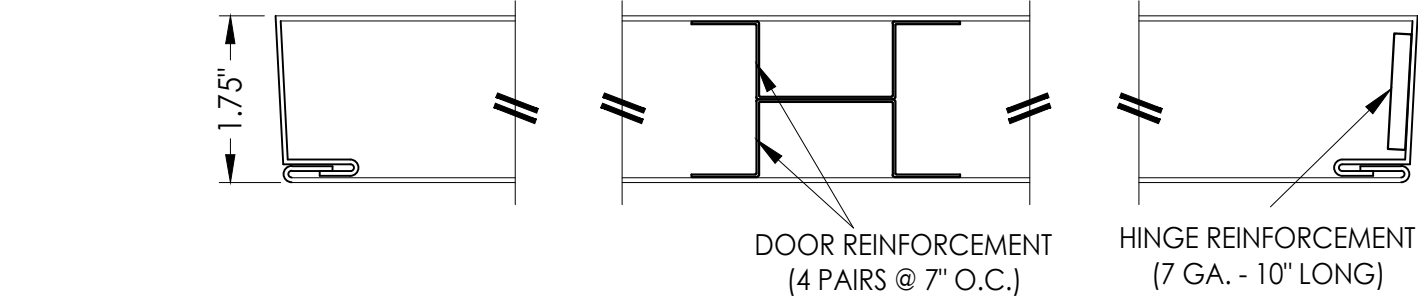
CHK. BY: RW

DRAWING NO.:

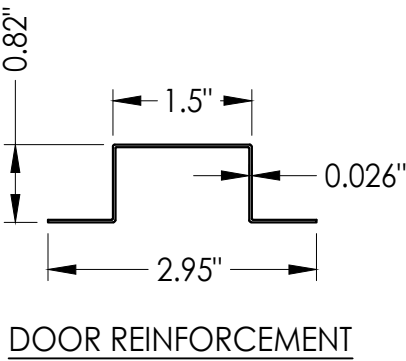
FL-40948.9

SHEET 1 OF 9

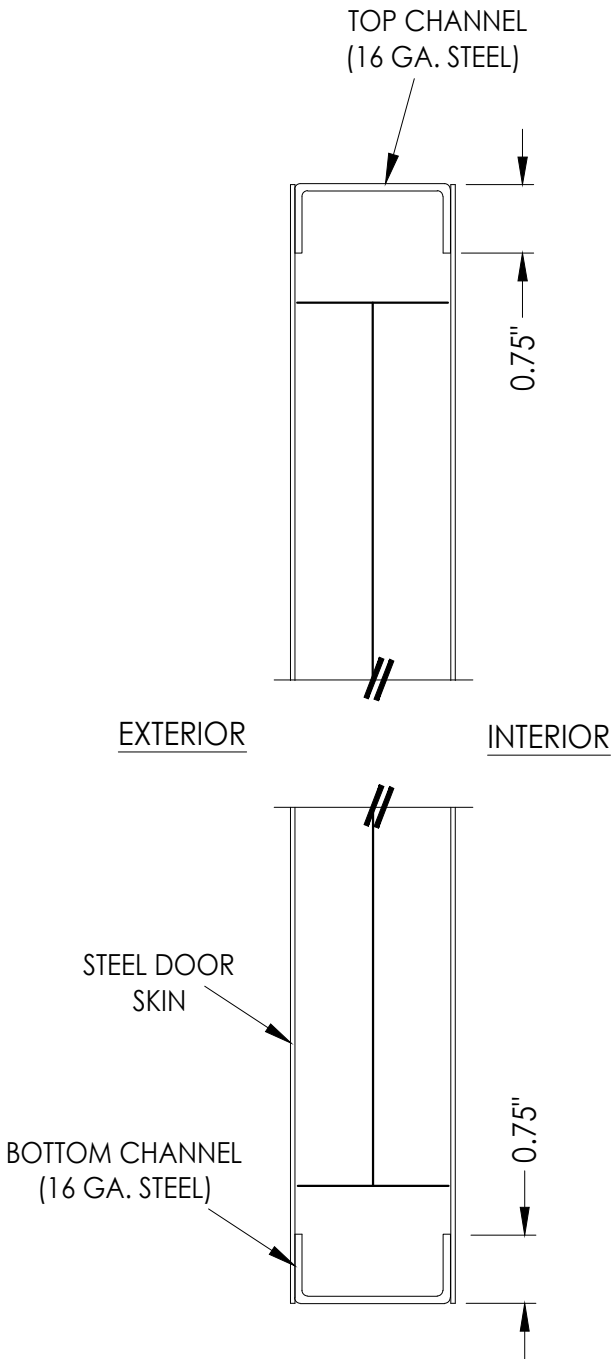
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STEEL DOOR SKIN (16 GA.): MIN. 0.055" THK. (Fy = 27,200 PSI MIN.)
CORE MATERIAL: POLYSTYRENE



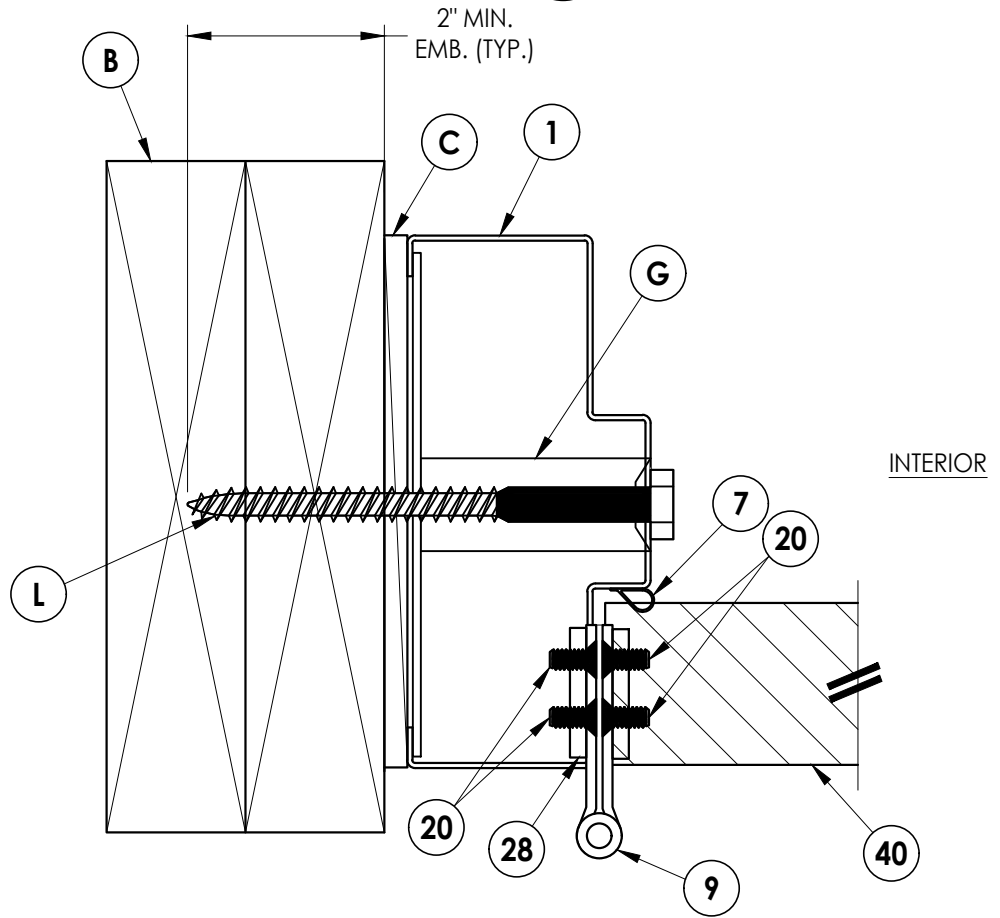
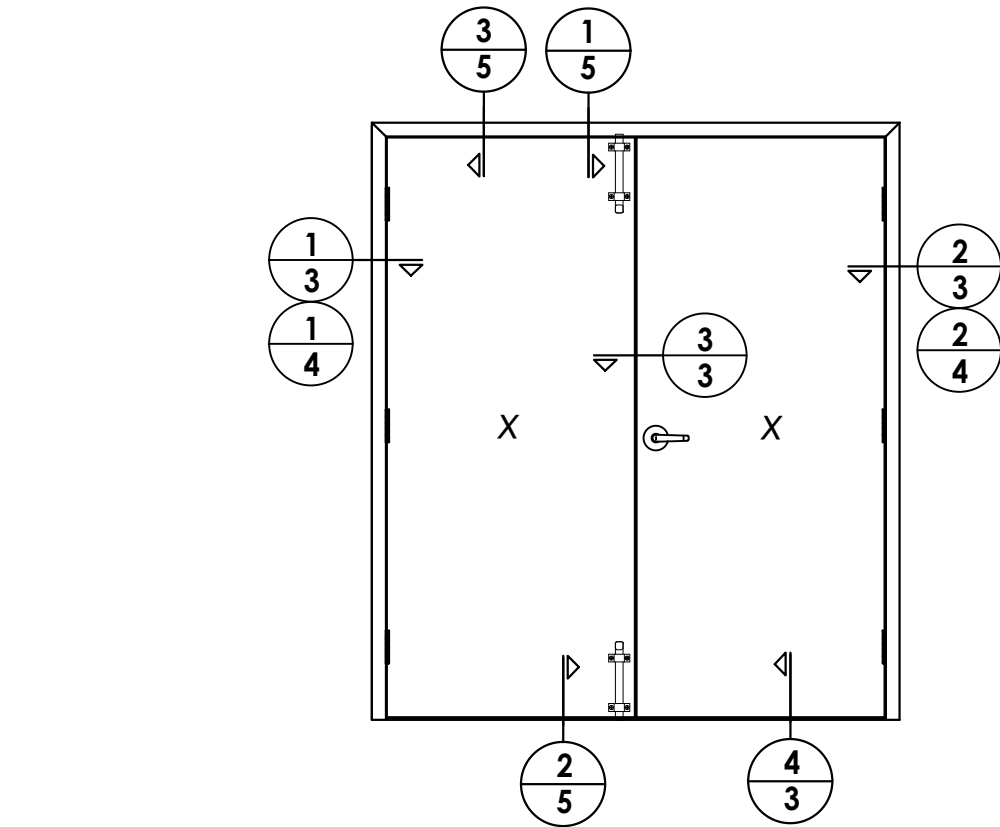
HARDWARE CHART	
MANUFACTURER	MODEL
PDQ	CYLINDRICAL LOCK: GT SERIES
PDQ	MORTISE LOCK/DEADBOLT : MR SERIES (MRF)
SARGENT	SURFACE BOLT : 988 (12" LONG w/ 3/4" SQ. BOLT)



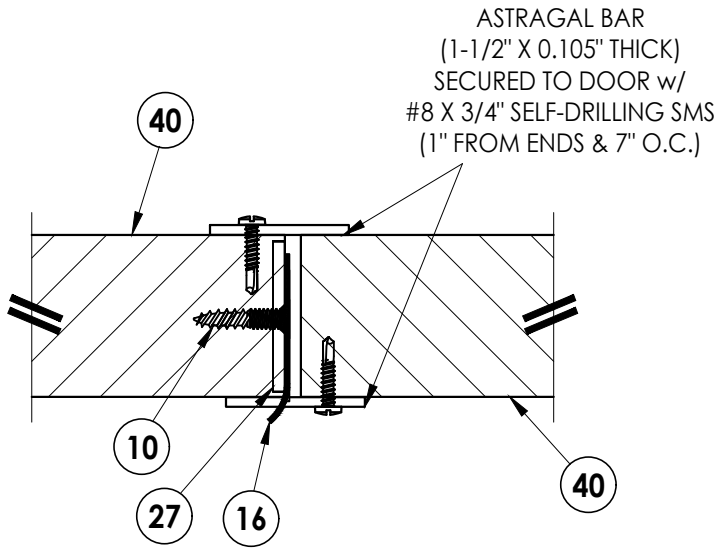
2
2 VERTICAL CROSS SECTION

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Vairico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: MPI STEEL COMMERCIAL DOOR		PART OR ASSEMBLY: DOOR PANEL DETAILS	
		NO.	DATE
		BY	
REVISIONS			
DATE: 8/27/24			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-40948.9			
SHEET 2 OF 9			

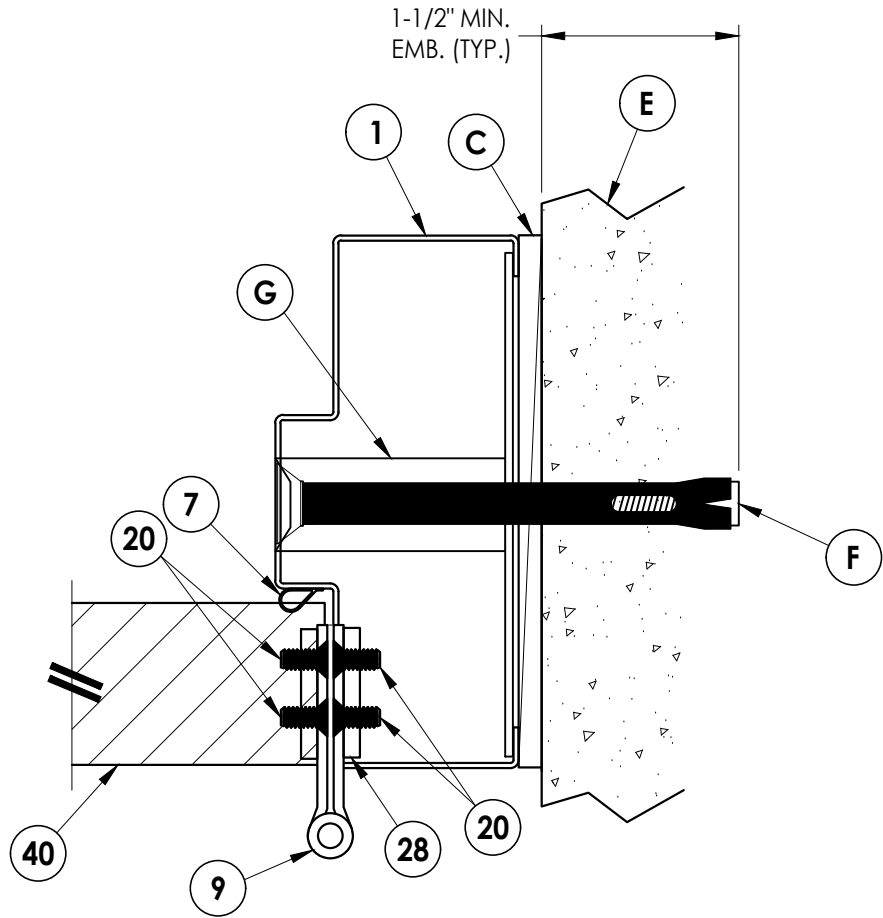
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1 **HORIZONTAL CROSS SECTION**
3 Shown w/ 2X Stud Anchor



3 **HORIZONTAL CROSS SECTION**
3



2 **HORIZONTAL CROSS SECTION**
3 Shown w/ Concrete Jamb Anchor

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FBPE Registry No. 9813

PRODUCT: MPI
COMMERCIAL STEEL DOOR

PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

NO.	DATE	BY	REVISIONS

DATE: 8/27/24

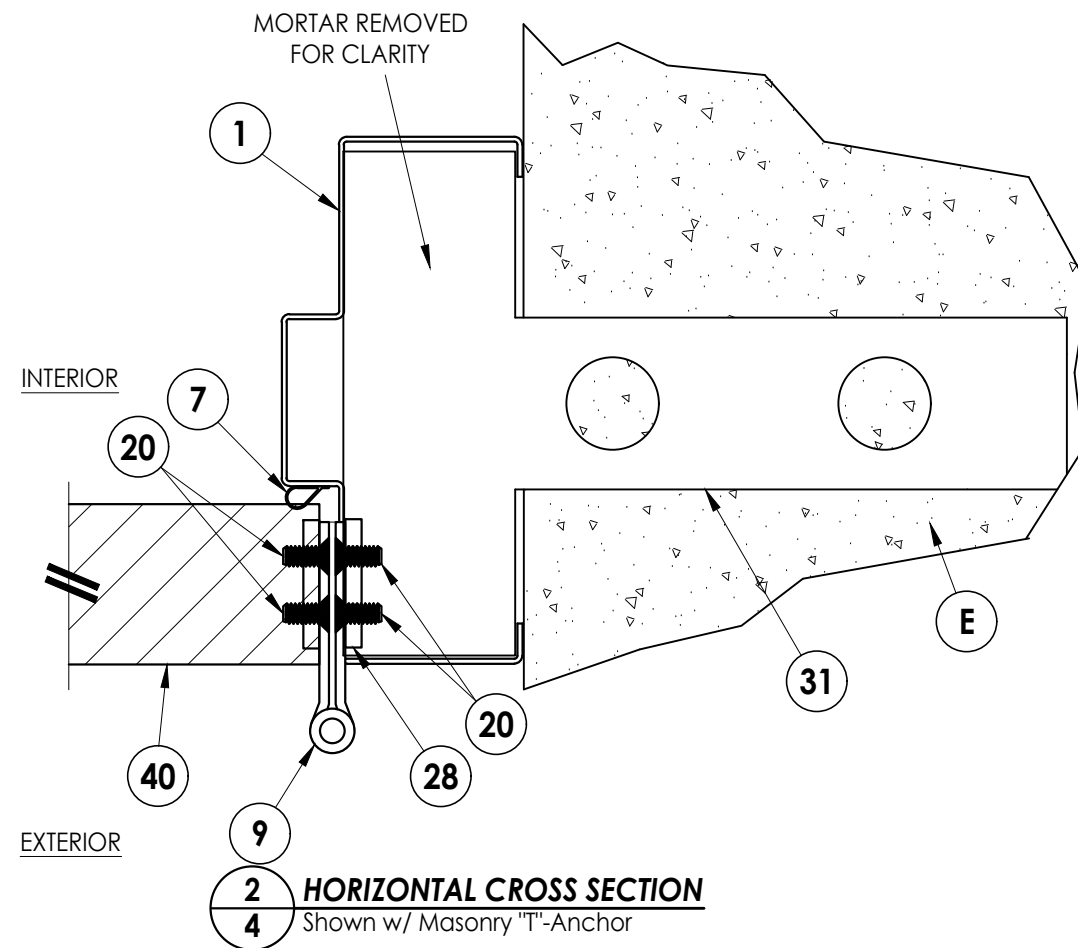
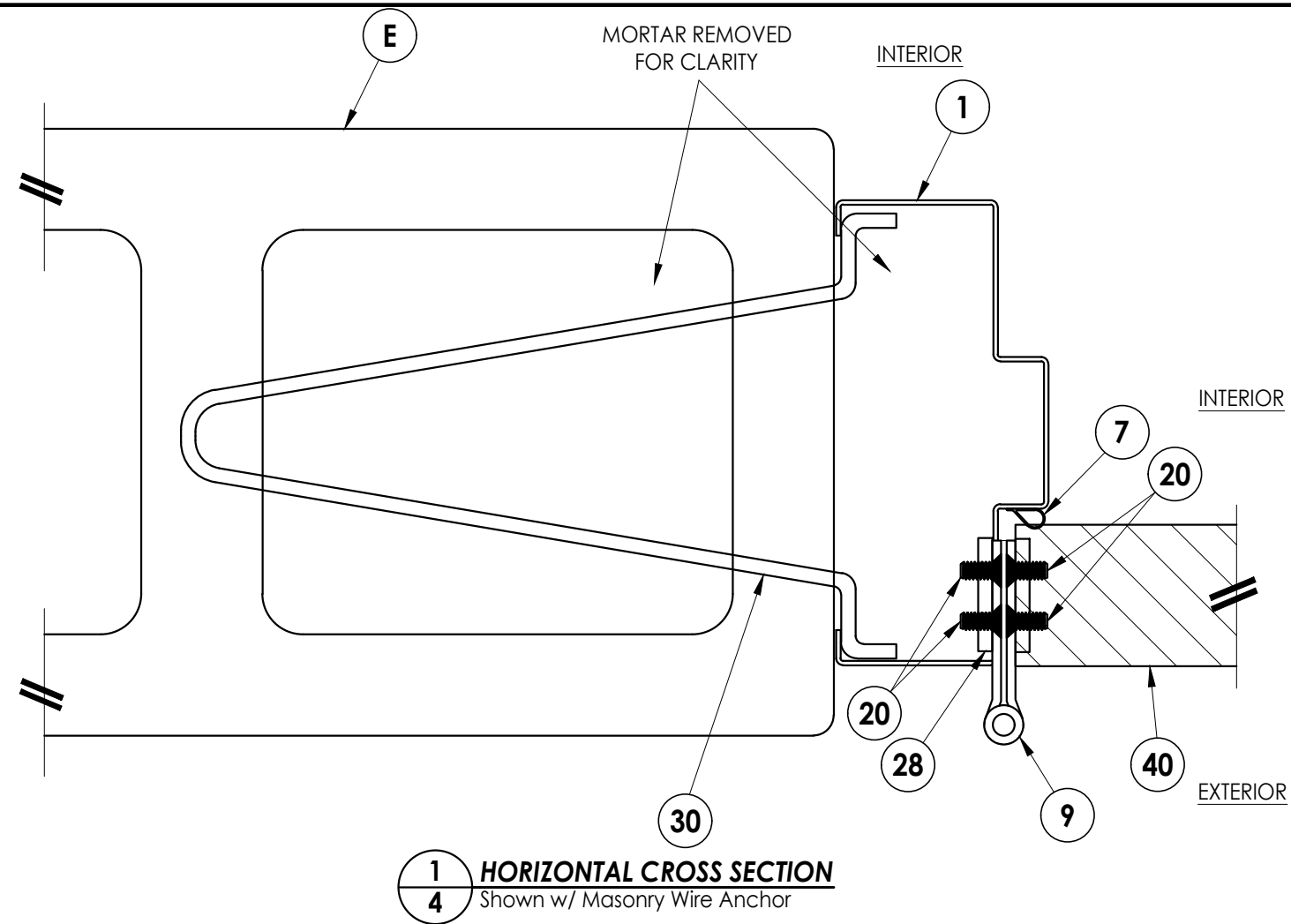
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DWG. BY: LFS

CHK. BY: RW

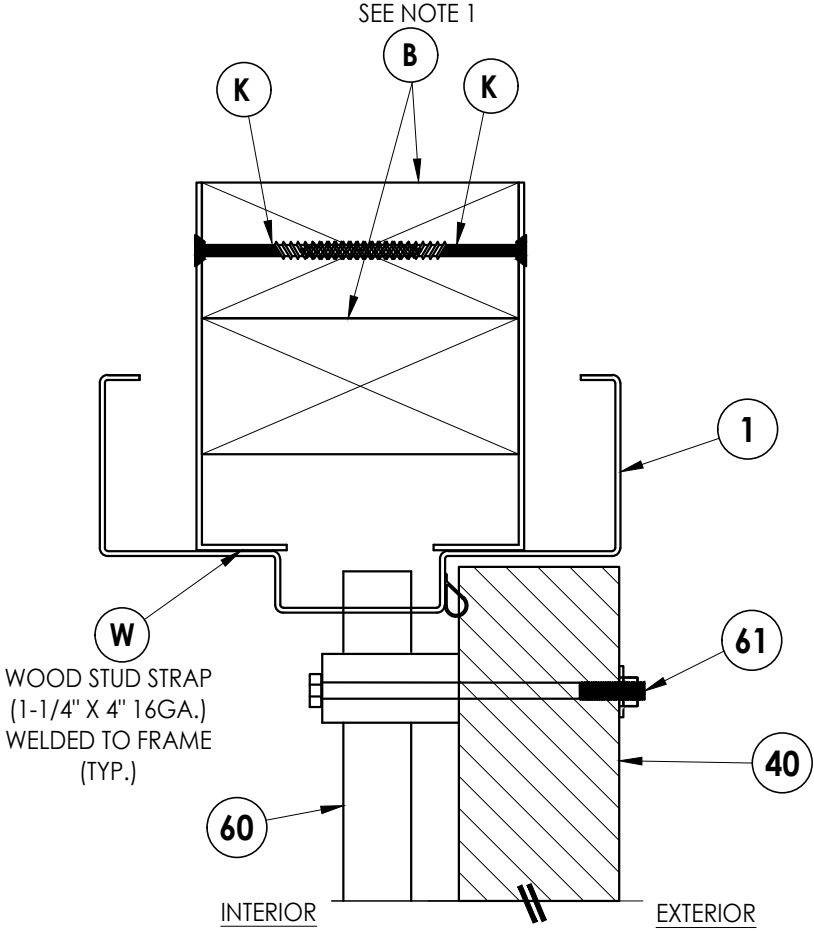
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SHEET 3 OF 9

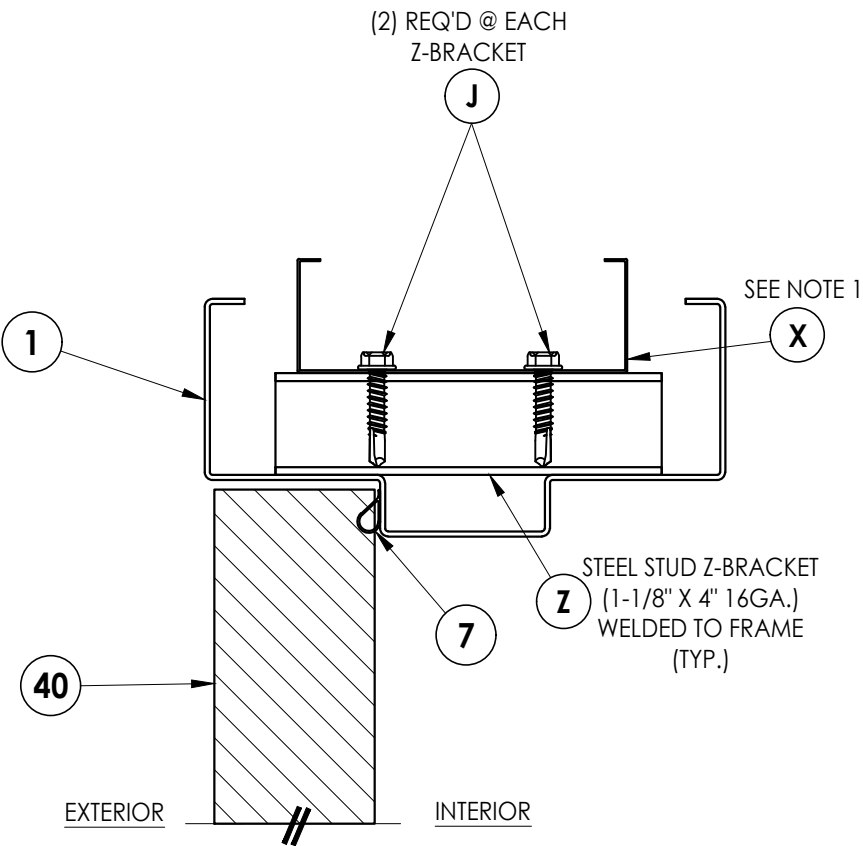
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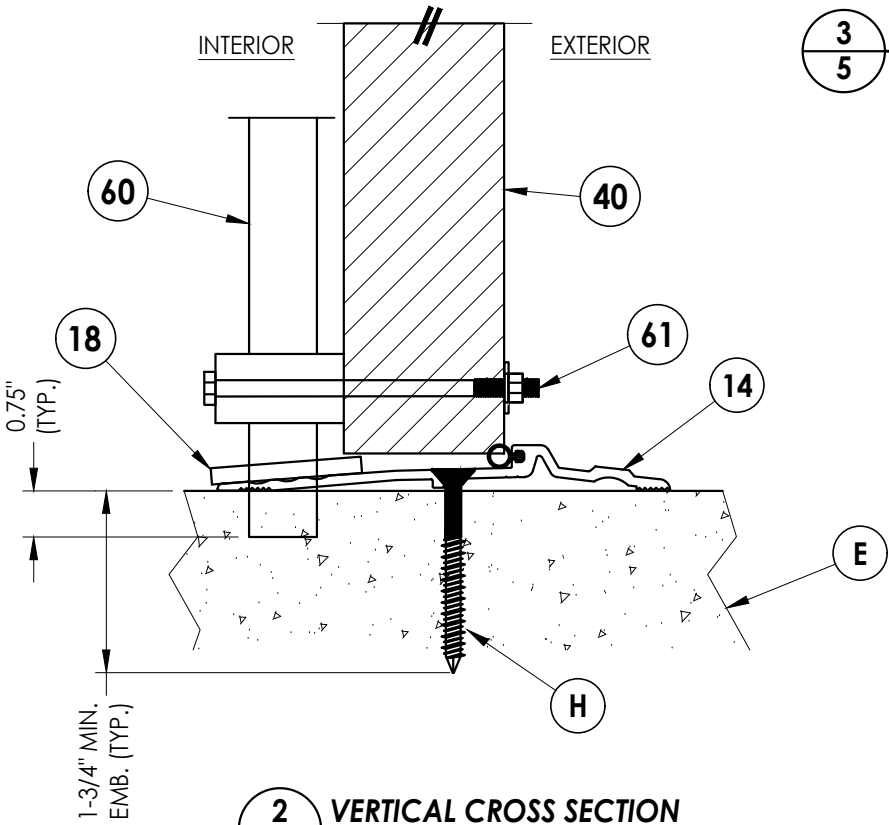
NOTE:
1. THE FRAME IS SHOWN ATTACHED TO WOOD & STEEL STUDS
AS TESTED. THE BUILDING DESIGNER IS RESPONSIBLE FOR
DETERMINING THE ACTUAL STUD DESIGN.



1
5 **VERTICAL CROSS SECTION**
Shown w/ Wood Stud Strap



3
5 **VERTICAL CROSS SECTION**
Shown w/ Steel Stud Z-Bracket



2
5 **VERTICAL CROSS SECTION**

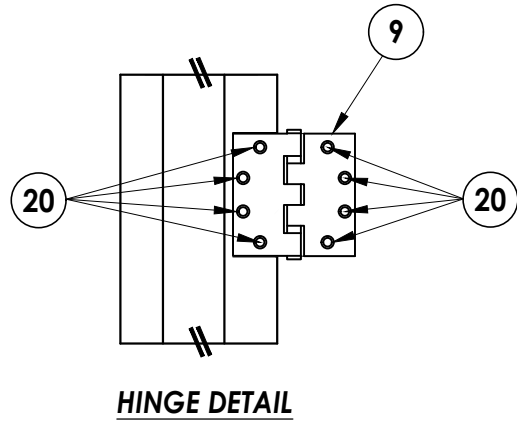
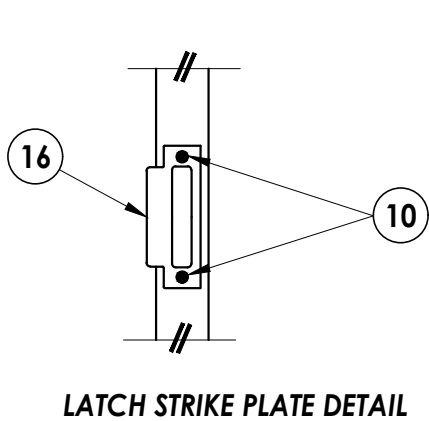
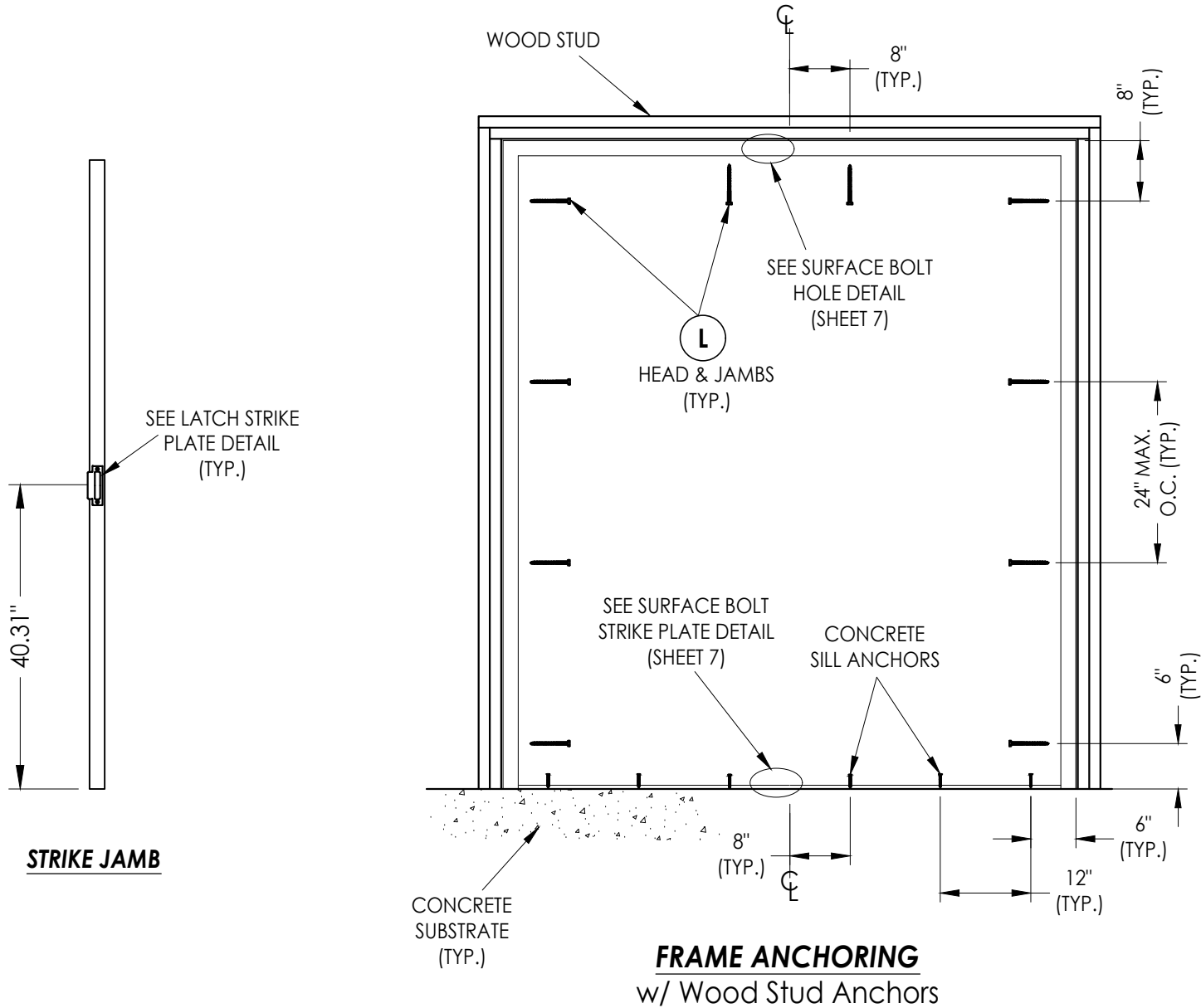
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: MPI COMMERCIAL STEEL DOOR		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	

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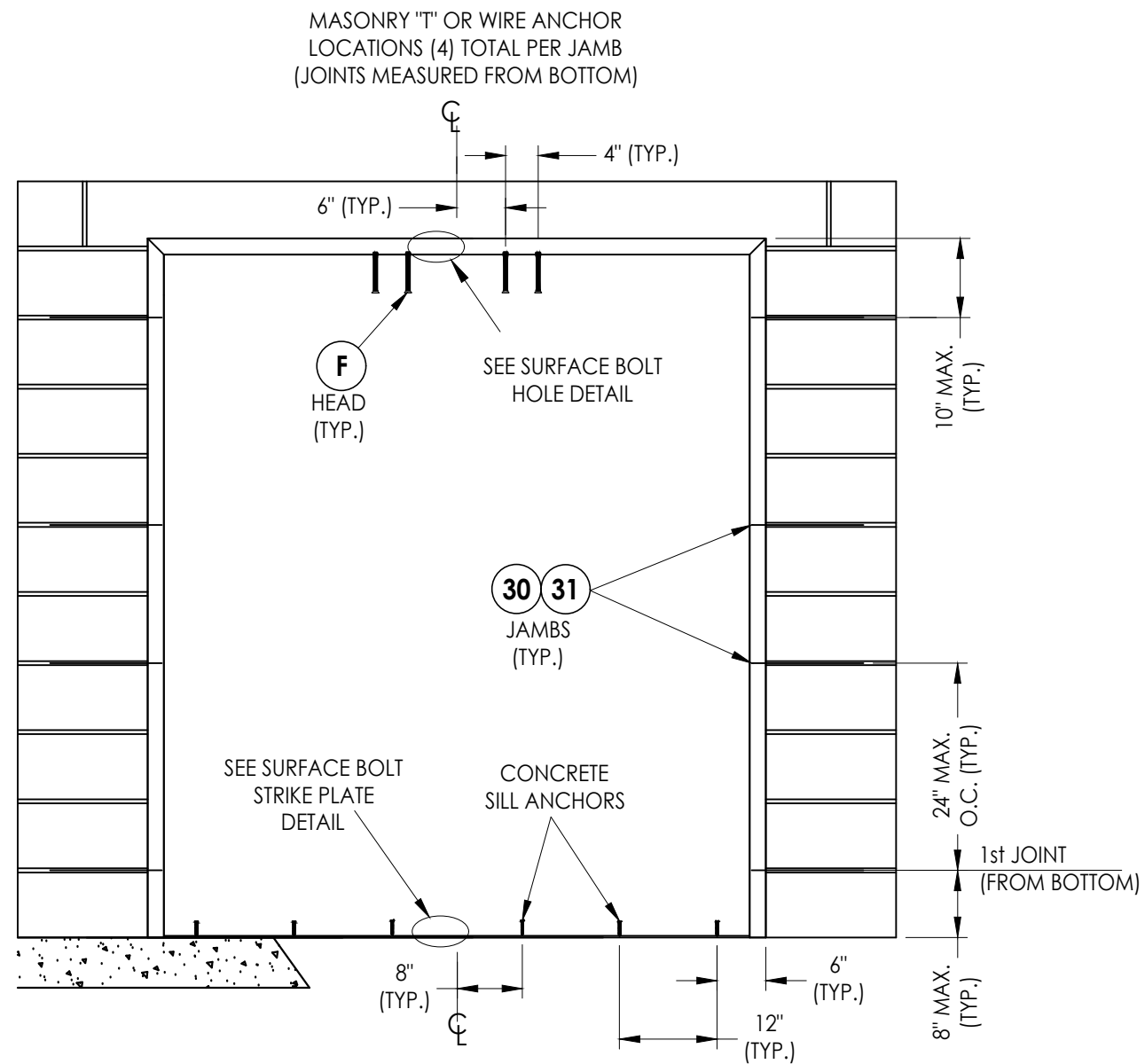
CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners 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.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT	MIN. CLEARANCE TO ADJACENT ANCHOR
CONCRETE ANCHOR SCREW	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRACON+® (DeWALT)	2-1/2"	1-3/4"	2"

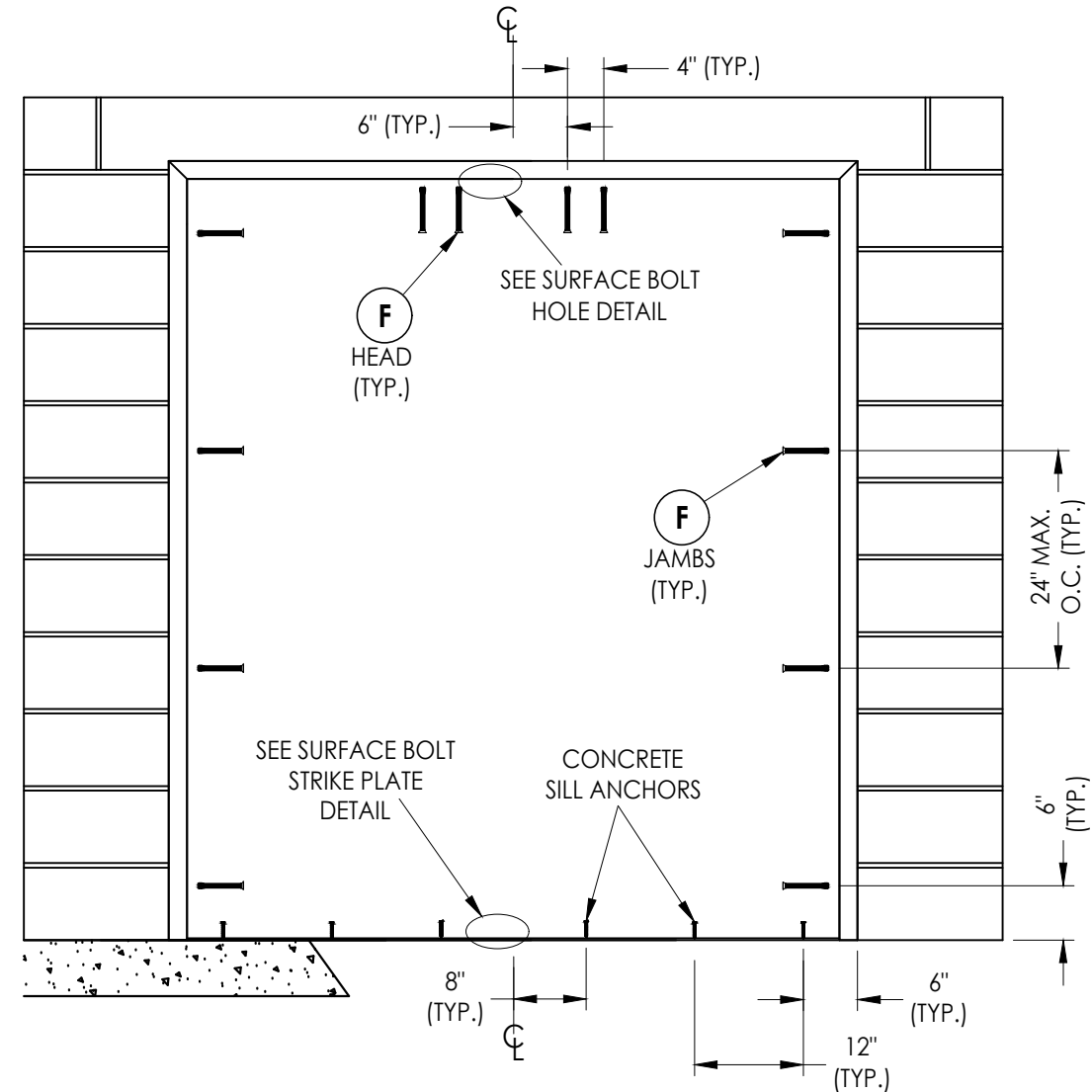


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: MPI STEEL COMMERCIAL DOOR		PART OR ASSEMBLY: FRAME ANCHORING	
		NO.	DATE
		BY	
REVISIONS			
DATE: 8/27/24			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-40948.9			
SHEET 6 OF 9			



FRAME ANCHORING

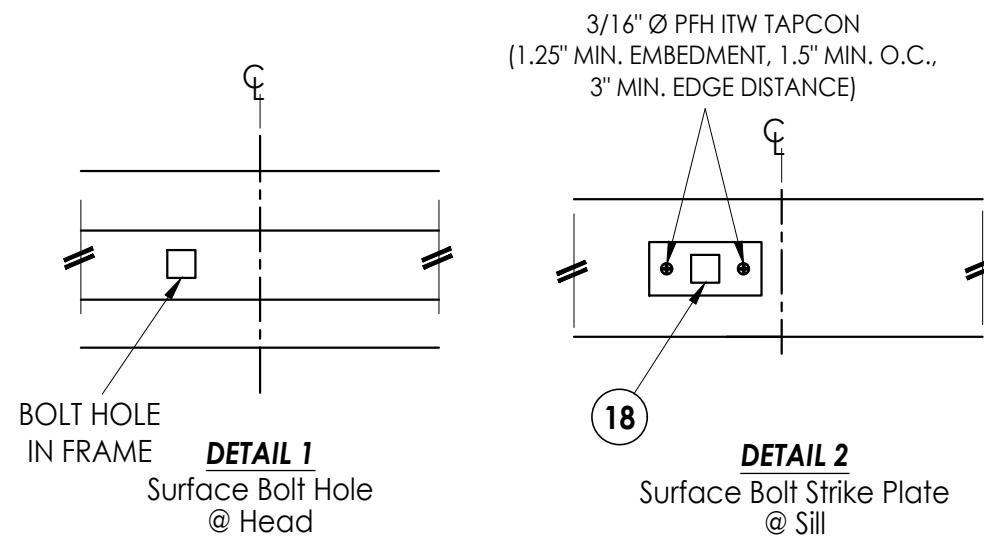
Masonry Construction w/ "T" or Wire Anchors



FRAME ANCHORING

Concrete Sleeve Anchors

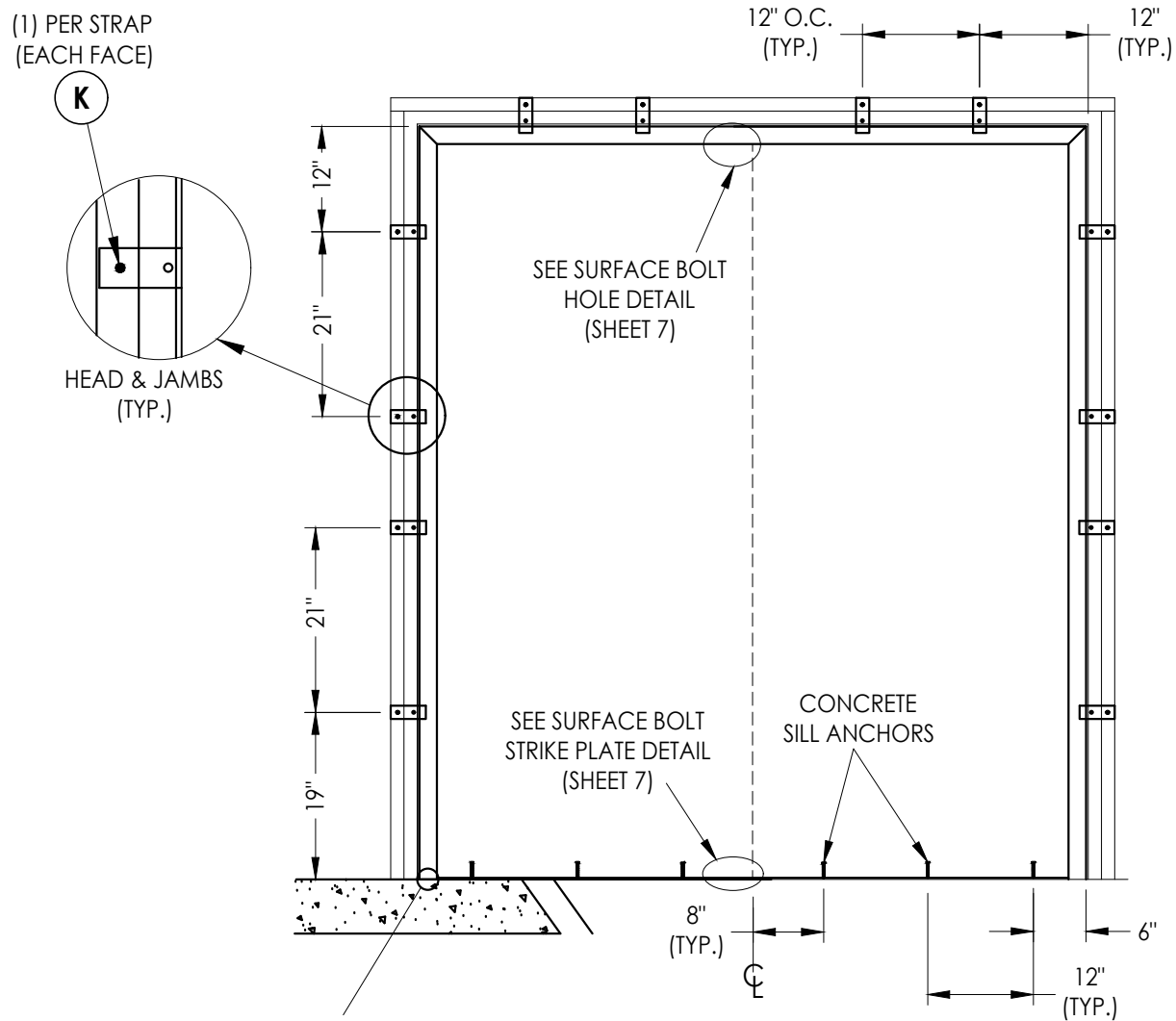
ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT	MIN. CLEARANCE TO ADJACENT ANCHOR
CONCRETE ANCHOR SCREW	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRACON+® (DeWALT)	2-1/2"	1-3/4"	2"
CONCRET SLEEVE ANCHOR	HEAD/JAMBS	3/8"	DYNABOLT® (ITW REDHEAD)	2-1/4"	1-1/2"	4-1/2"

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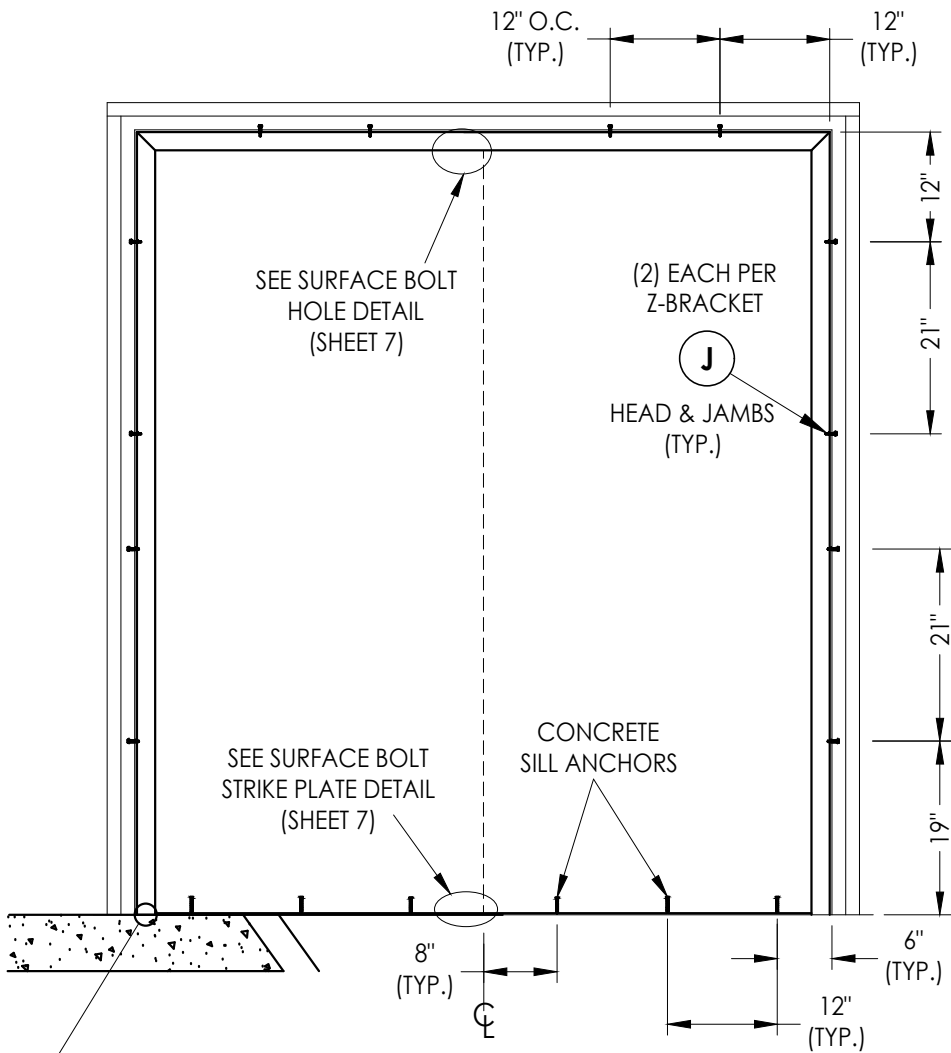
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FRAME ANCHORING
w/ Wood Stud Anchor Straps



FRAME ANCHORING
w/ Steel Stud Anchors

CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners 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.
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PRODUCT: MPI
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
FRAME ANCHORING

NO.	DATE	BY

DATE: 8/27/24
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FL-40948.9
SHEET 8 OF 9

