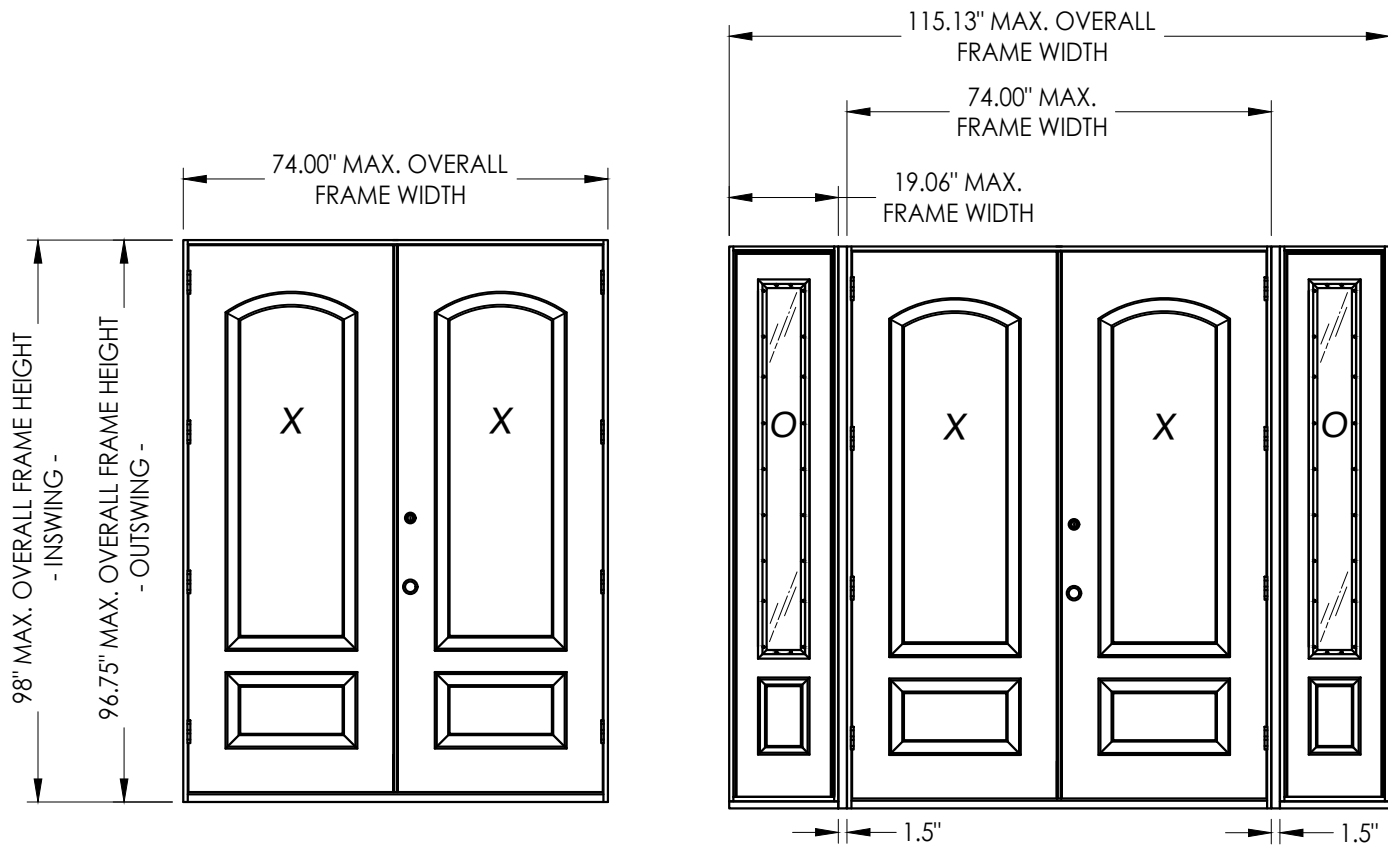


OPAQUE FIBERGLASS DOUBLE DOOR
w/ or w/o SIDELITES
INSWING / OUTSWING
"NON-IMPACT"

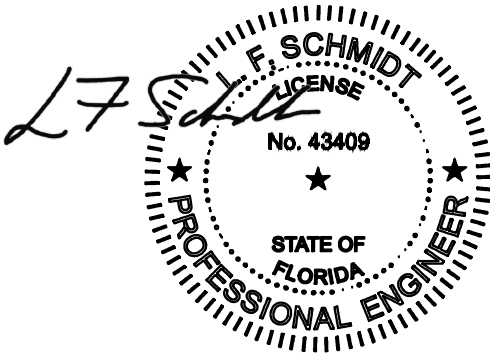
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) 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 is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Sidelite panel details and glazing detail
4	Elevations
5	Horizontal cross section
6	Vertical cross sections
7	Vertical cross sections
8	Buck and frame anchoring - (XX)
9	Buck and frame anchoring - (OXXO)
10	Bill of materials and components



CONFIGURATION	MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	74.00" x 98.00"	N/A	+45.0	-45.0	+45.0	-45.0
OXXO	115.13" x 98.00"	7.0" x 63.13"	+45.0	-45.0	+45.0	-45.0



Digitally signed by
Lyndon F Schmidt
Date: 2026.07.01
15:35:09 -04'00'

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

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

PRODUCT: MASTERGRAIN FIBERGLASS DOOR

DATE: 11/30/09

SCALE: N.T.S.

DWG. BY: AP

CHK. BY: LFS

DRAWING NO.: FL-13320.4

SHEET 1 OF 10

PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

REVISIONS

6 7/01/26 UPDATE TO 9TH ED. (2026) FBC LFS

5 7/01/23 UPDATE TO 8TH ED. (2023) FBC LFS

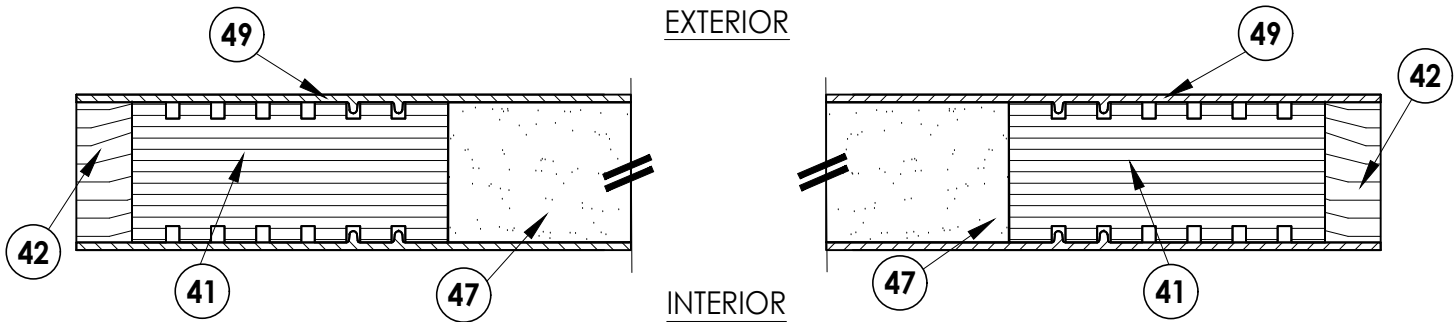
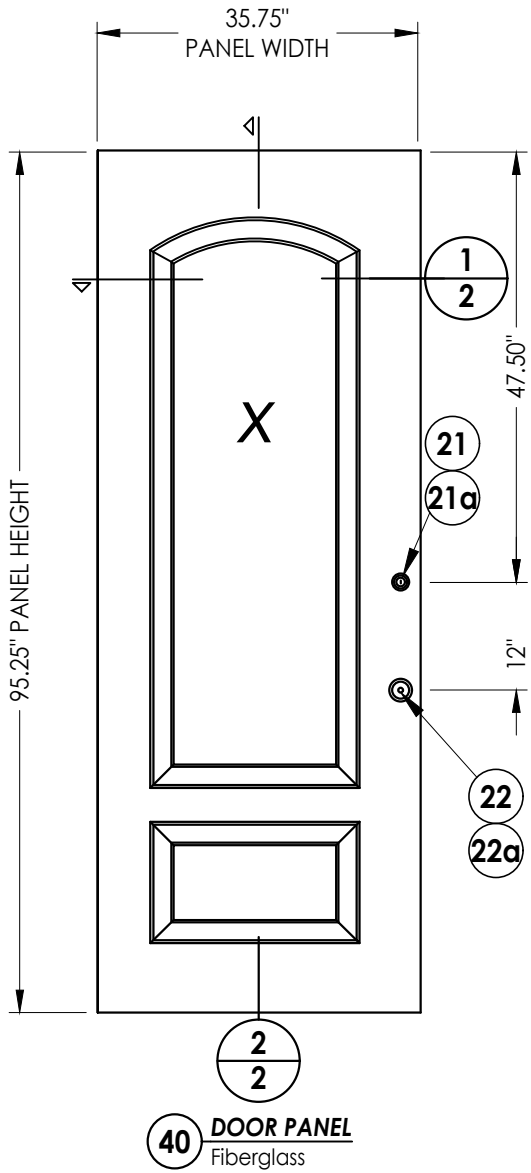
4 7/08/20 UPDATE TO 7TH ED. (2020) FBC LFS

NO. DATE BY

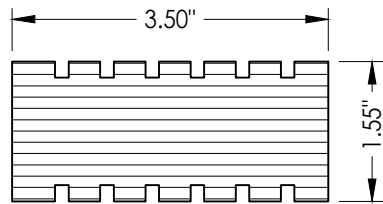
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© 2008 R.W. BUILDING CONSULTANTS INC.

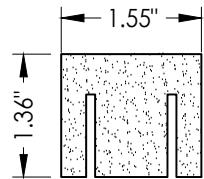
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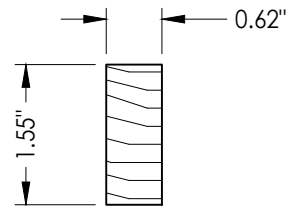
1
2 HORIZONTAL CROSS SECTION



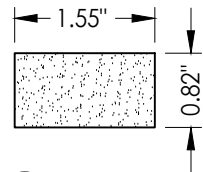
41 HINGE AND LATCH STILE
Reinforcement / LSL



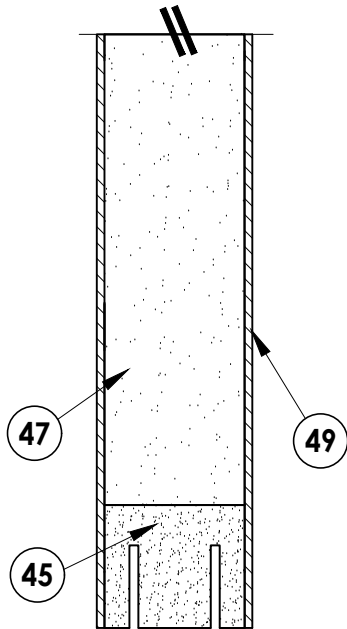
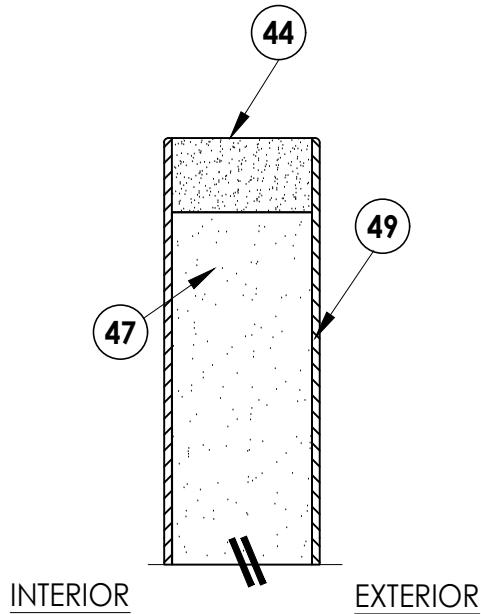
45 BOTTOM RAIL
Composite



42 HINGE AND LATCH STILE
Wood



44 TOP RAIL
Composite



2
2 VERTICAL CROSS SECTION

PRODUCT:
MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
6	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
5	7/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	7/08/20	UPDATE TO 7TH ED. (2020) FBC LFS

DATE: 11/30/09

SCALE: N.T.S.

DWG. BY: AP

CHK. BY: LFS

DRAWING NO.:

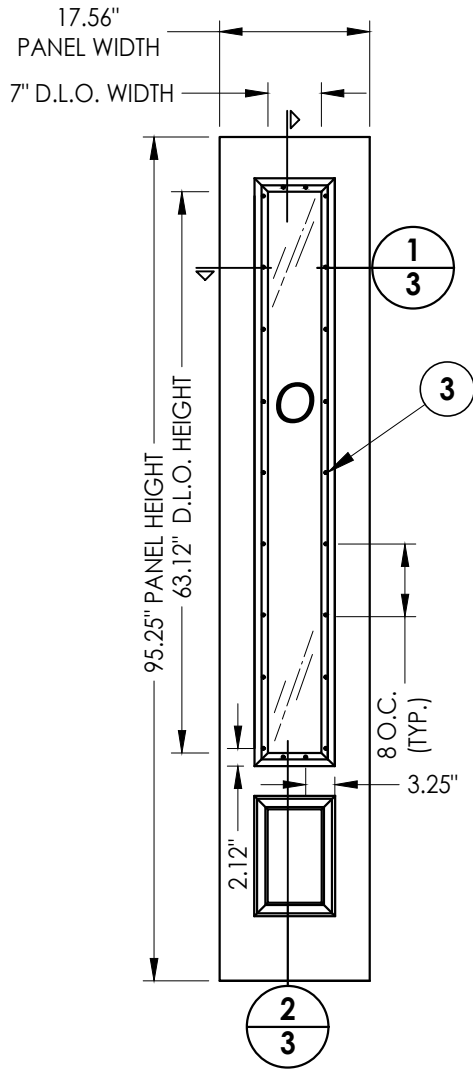
FL-13320.4

SHEET 2 OF 10

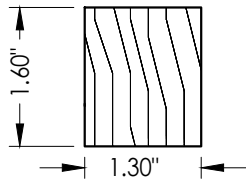
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

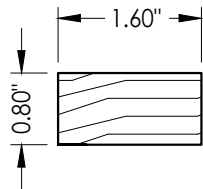
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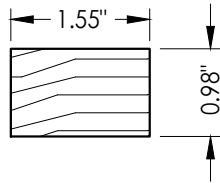
50 SIDELITE PANEL
Fiberglass



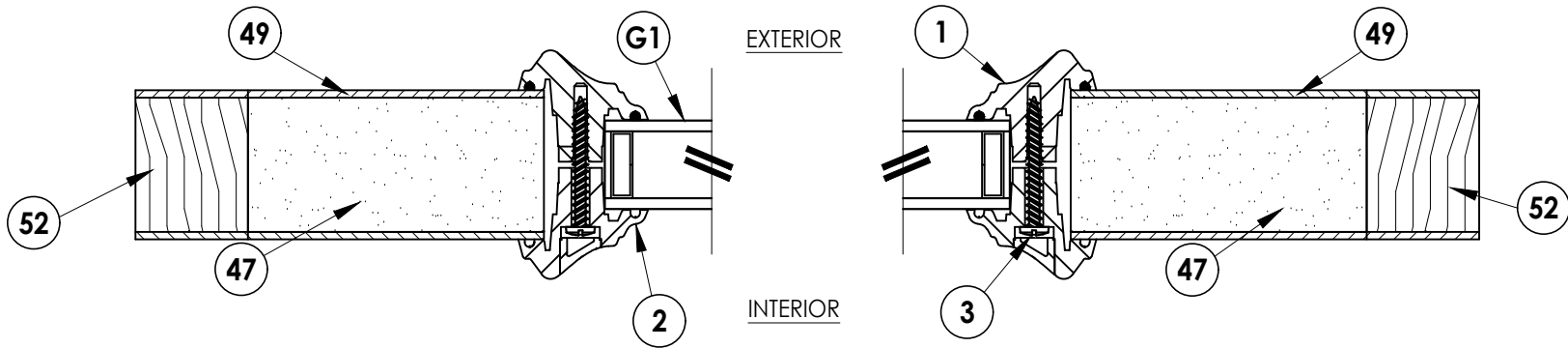
52 SIDELITE STILE
Wood



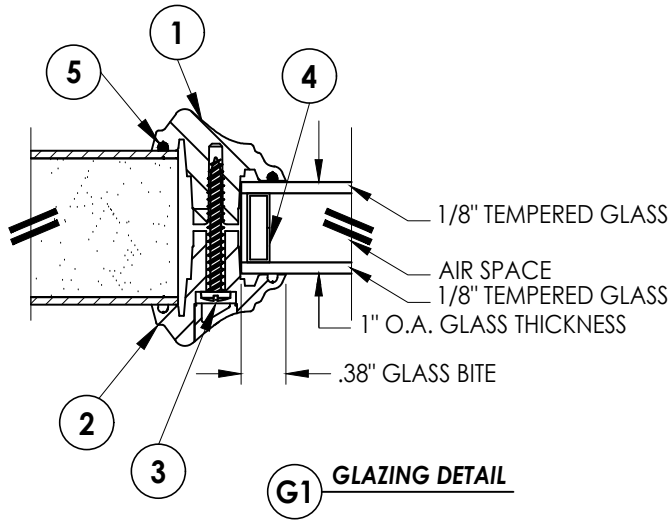
53 SIDELITE BOTTOM RAIL
Wood



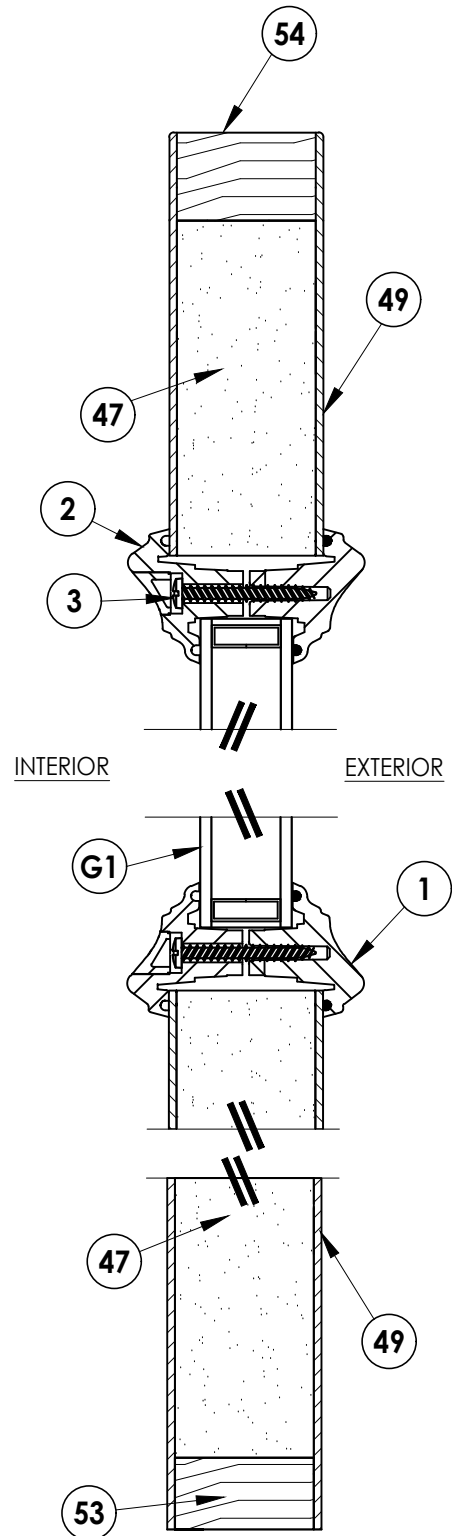
54 SIDELITE TOP RAIL
Wood



1/3 HORIZONTAL CROSS SECTION



G1 GLAZING DETAIL



2/3 VERTICAL CROSS SECTION

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PRODUCT: MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:
SIDELITE PANEL DETAILS
AND GLAZING DETAIL

REVISIONS			
NO.	DATE	BY	
6	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS	
5	7/01/23	UPDATE TO 8TH ED. (2023) FBC LFS	
4	7/08/20	UPDATE TO 7TH ED. (2020) FBC LFS	

DATE: 11/30/09

SCALE: N.T.S.

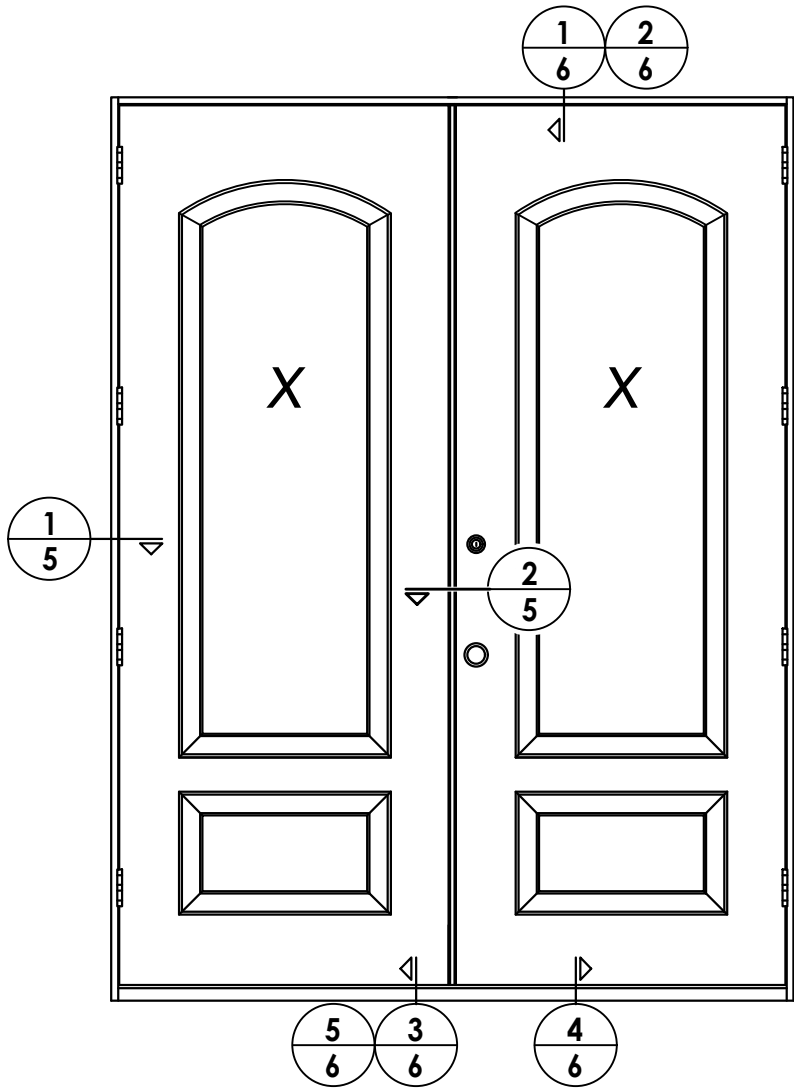
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CHK. BY: LFS

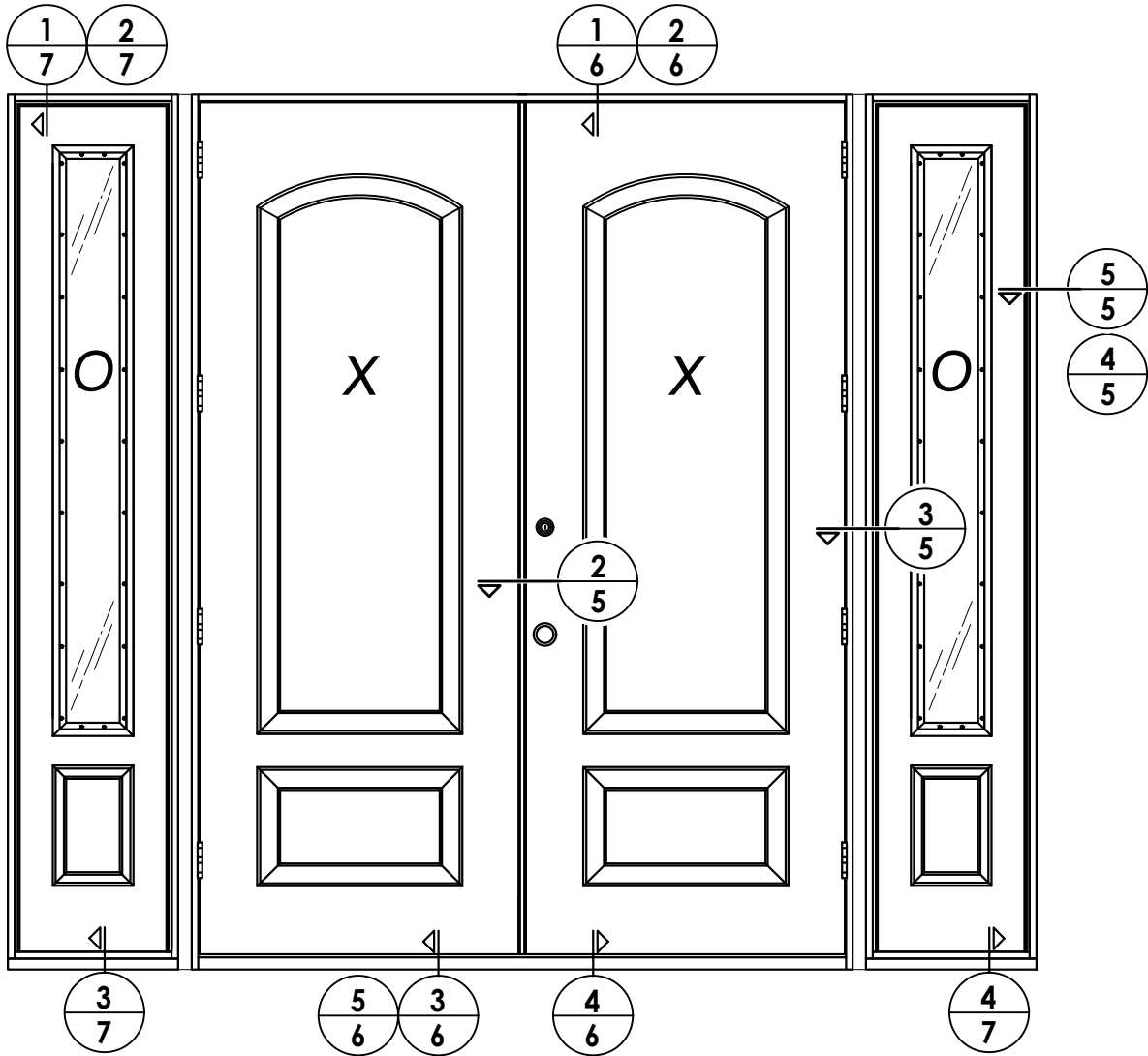
DRAWING NO.:
FL-13320.4

SHEET 3 OF 10

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ELEVATION (XX)



ELEVATION (OXXO)

REVISIONS	
NO.	DATE
6	7/01/26
5	7/01/23
4	7/08/20

DATE: 11/30/09

SCALE: N.T.S.

DWG. BY: AP

CHK. BY: LFS

DRAWING NO.:
FL-13320.4

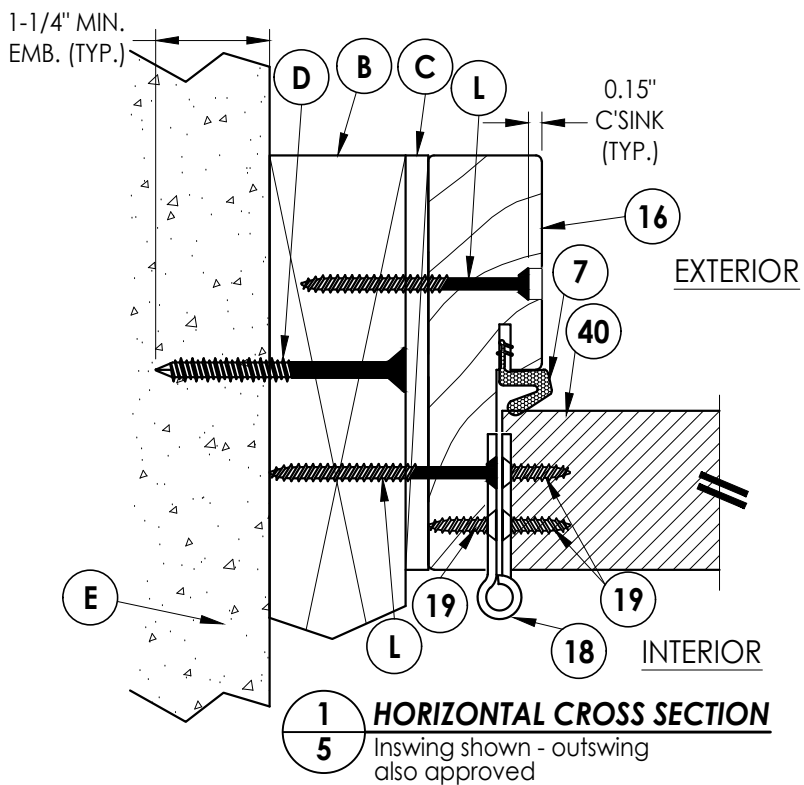
SHEET 4 OF 10

PRODUCT:	
MASTERGRAIN FIBERGLASS DOOR	
PART OR ASSEMBLY:	
ELEVATIONS	

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

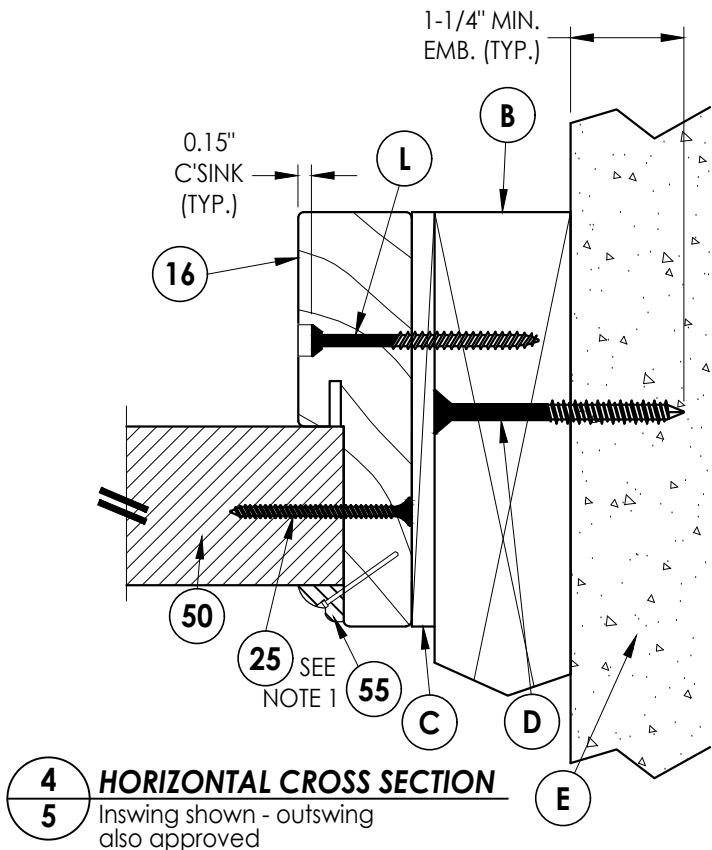
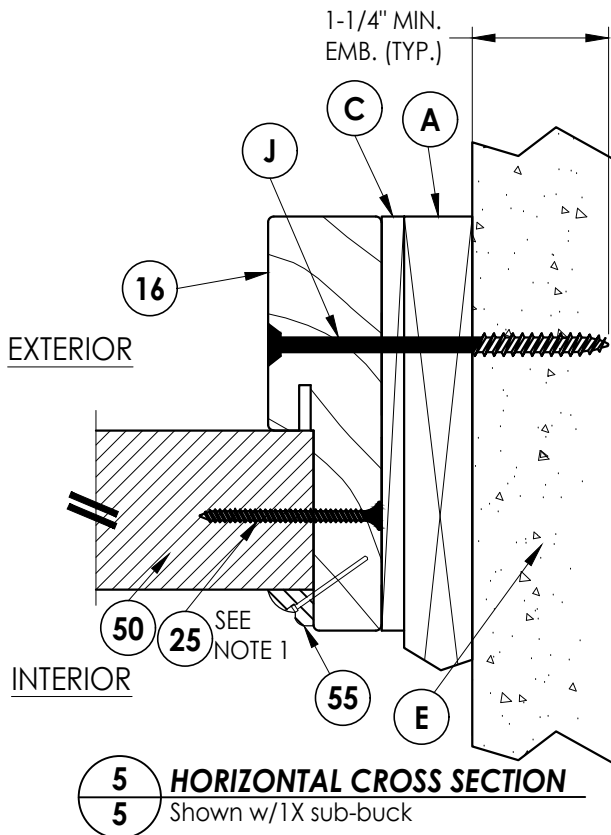
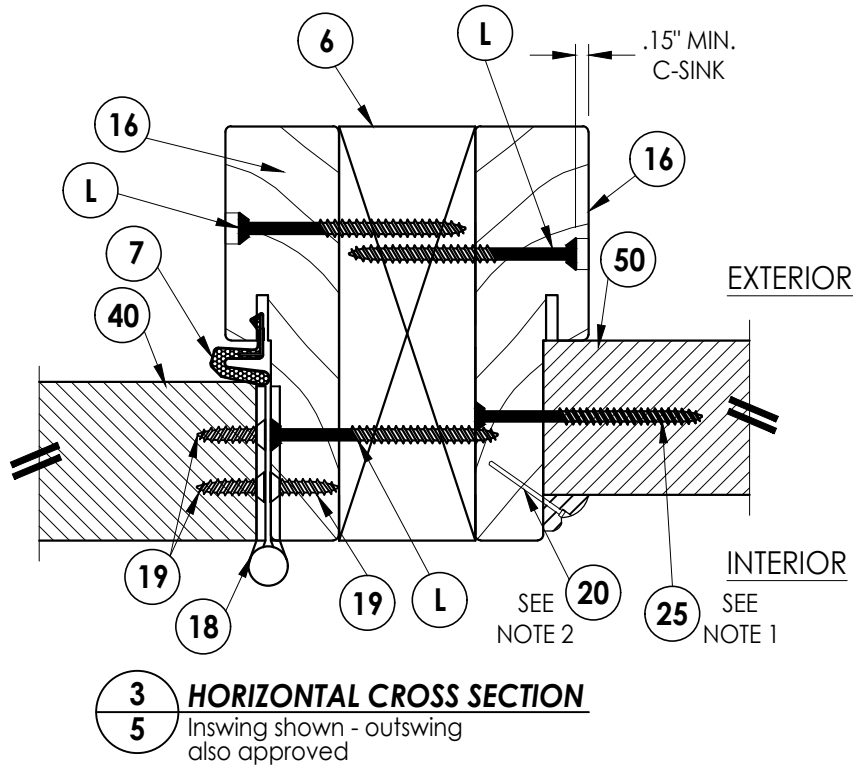
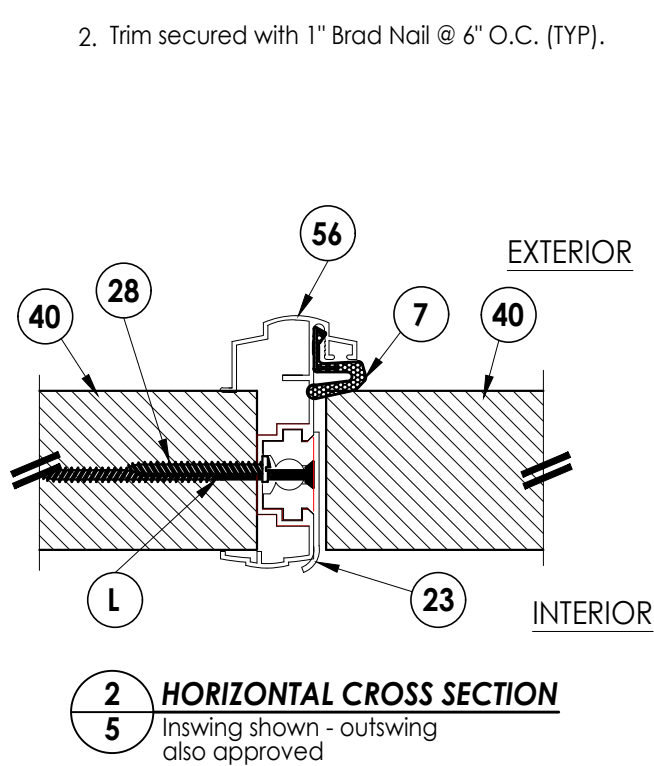
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FBPE Registry No. 9813

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NOTE:

1. Sidelite ass'y fastener; 6" from each end and 6 more screws equally spaced between. (8 screws total per jamb.)
2. Trim secured with 1" Brad Nail @ 6" O.C. (TYP).



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FBPE Registry No. 9813

PRODUCT: MASTERGRAIN FIBERGLASS DOOR

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY
6	7/01/26	UPDATE TO 9TH ED. (2026)	LFS
5	7/01/23	UPDATE TO 8TH ED. (2023)	LFS
4	7/08/20	UPDATE TO 7TH ED. (2020)	LFS

DATE: 11/30/09

SCALE: N.T.S.

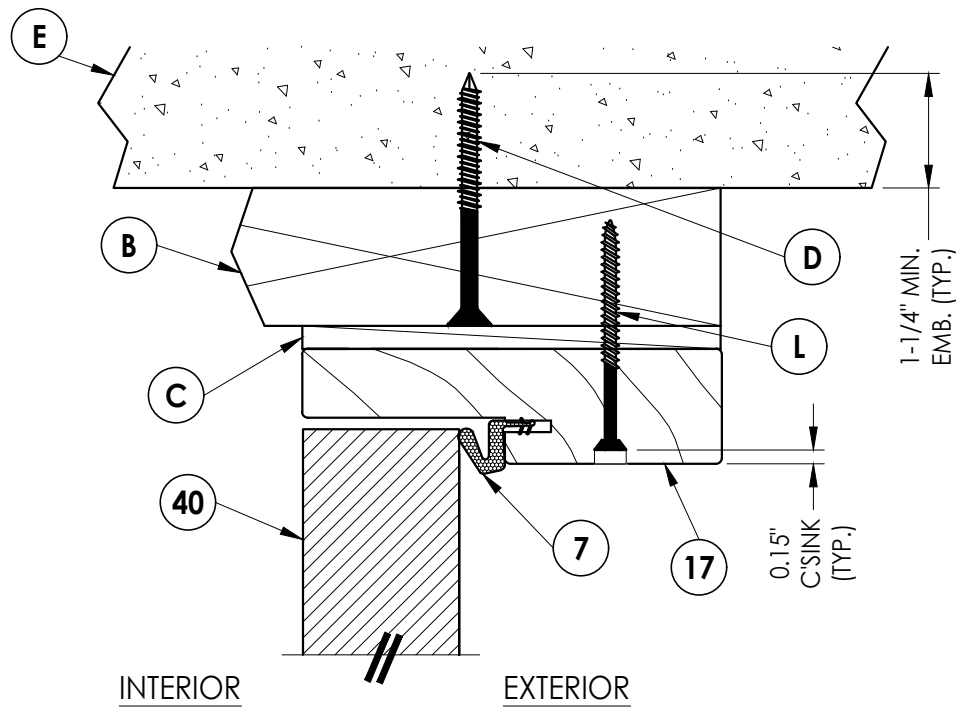
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CHK. BY: LFS

DRAWING NO.: FL-13320.4

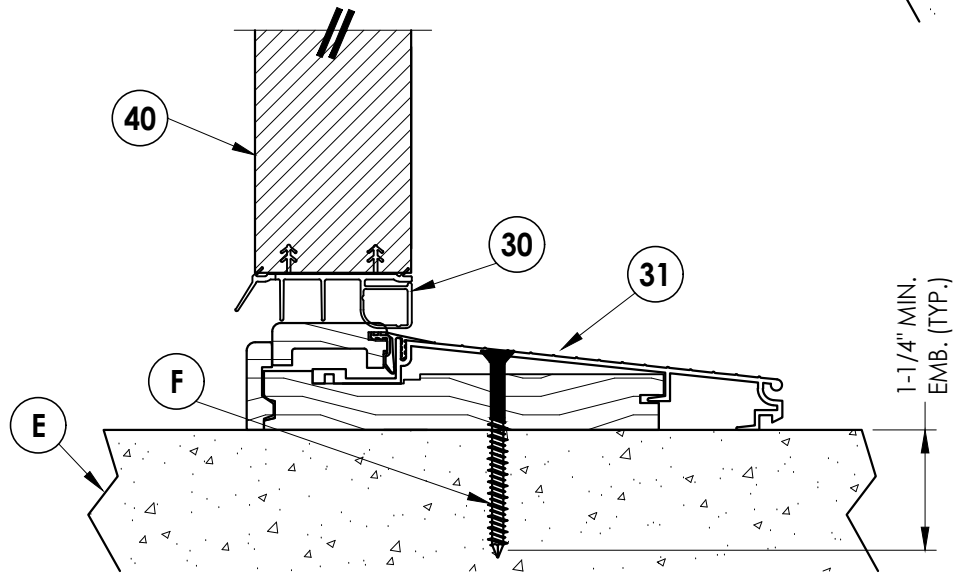
SHEET 5 OF 10

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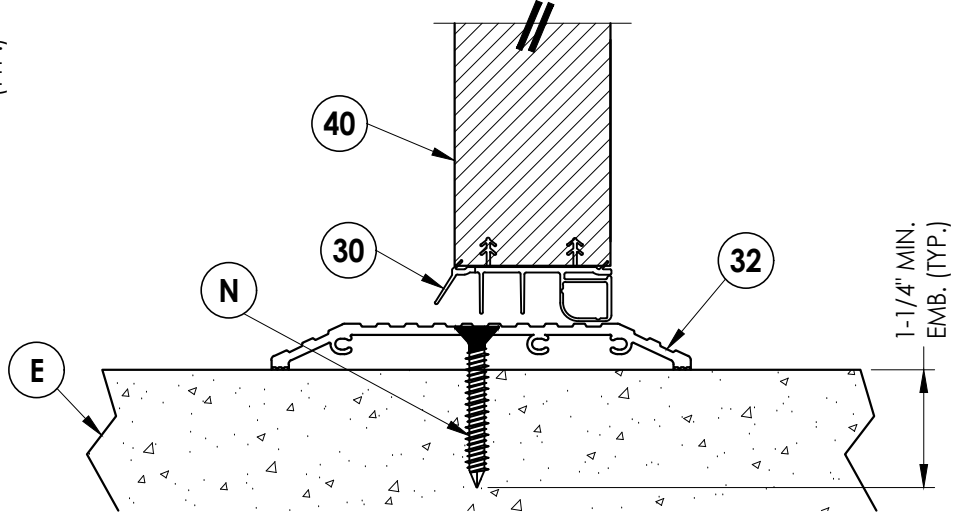
1
6 **VERTICAL CROSS SECTION**
Inswing shown - outswing
also approved

INTERIOR EXTERIOR

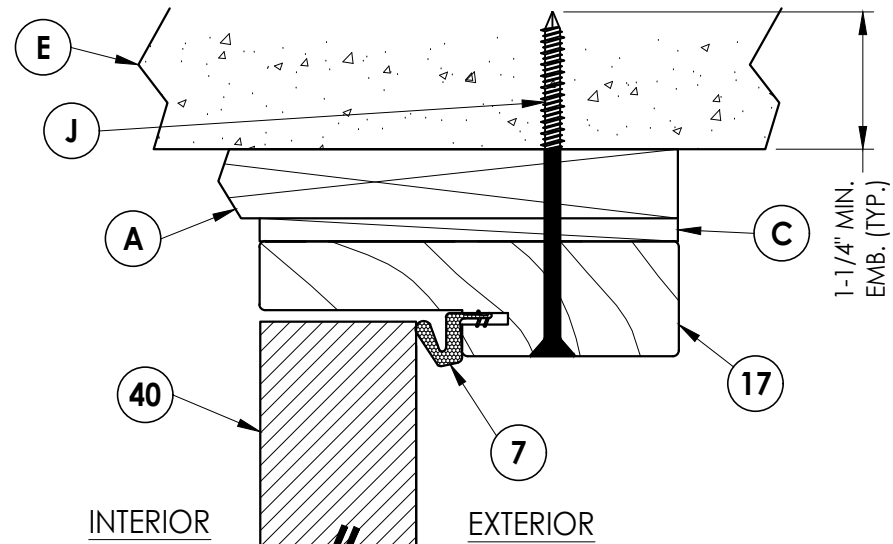


3
6 **VERTICAL CROSS SECTION**
Inswing configuration

INTERIOR EXTERIOR

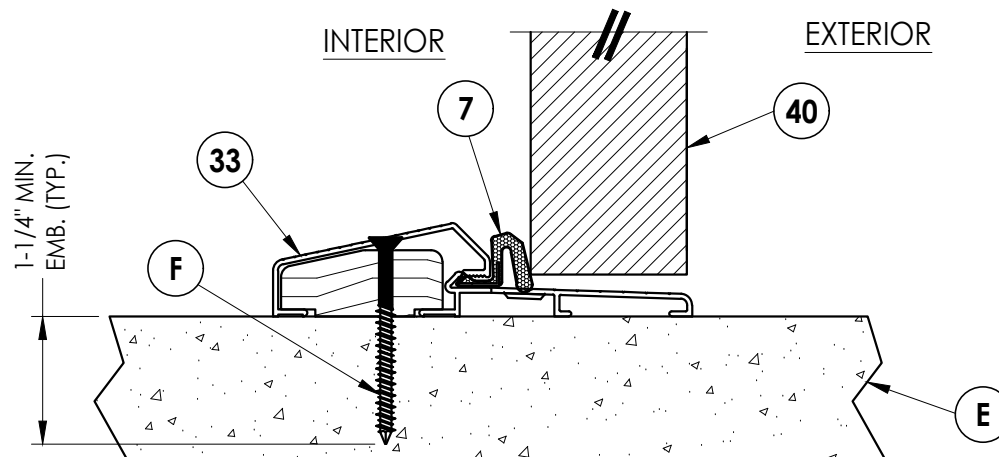


5
6 **VERTICAL CROSS SECTION**
Shown w/ ADA threshold



2
6 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck

INTERIOR EXTERIOR



4
6 **VERTICAL CROSS SECTION**
Outswing configuration

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

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

PRODUCT:
MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS
6	7/01/26	LFS	UPDATE TO 9TH ED. (2026) FBC
5	7/01/23	LFS	UPDATE TO 8TH ED. (2023) FBC
4	7/08/20	LFS	UPDATE TO 7TH ED. (2020) FBC

DATE: 11/30/09

SCALE: N.T.S.

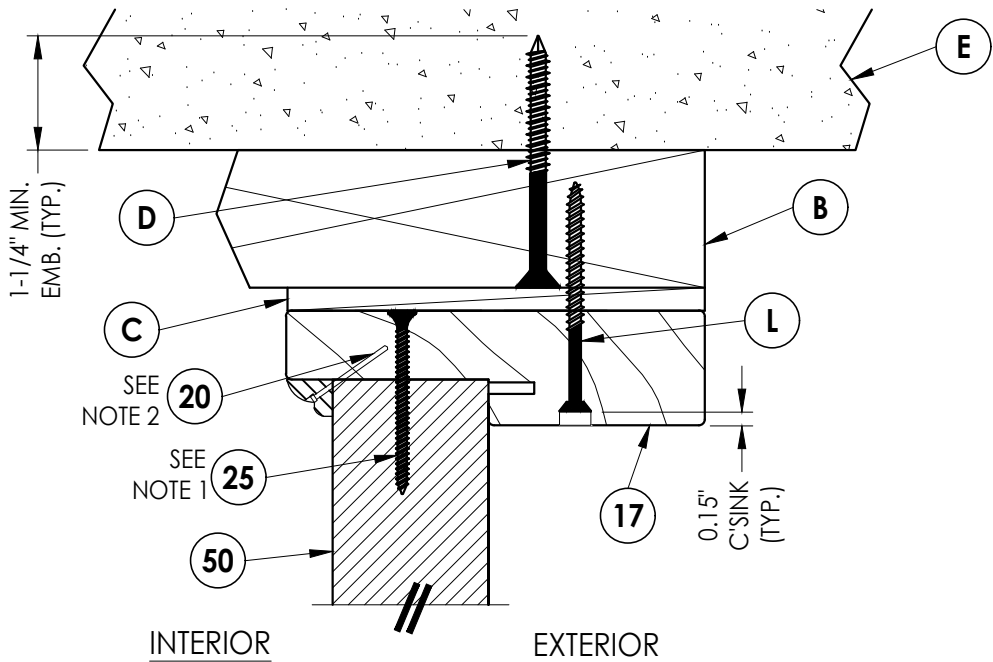
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CHK. BY: LFS

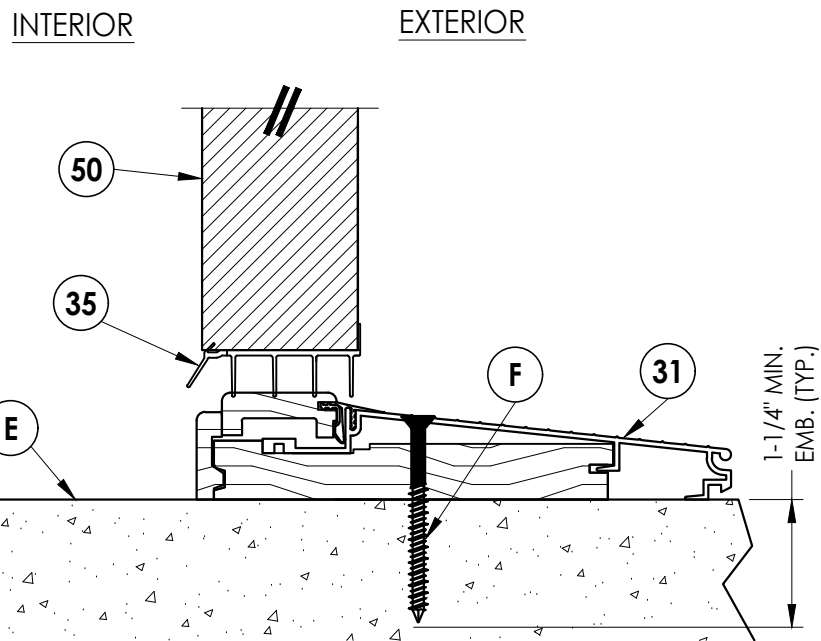
DRAWING NO.:

FL-13320.4

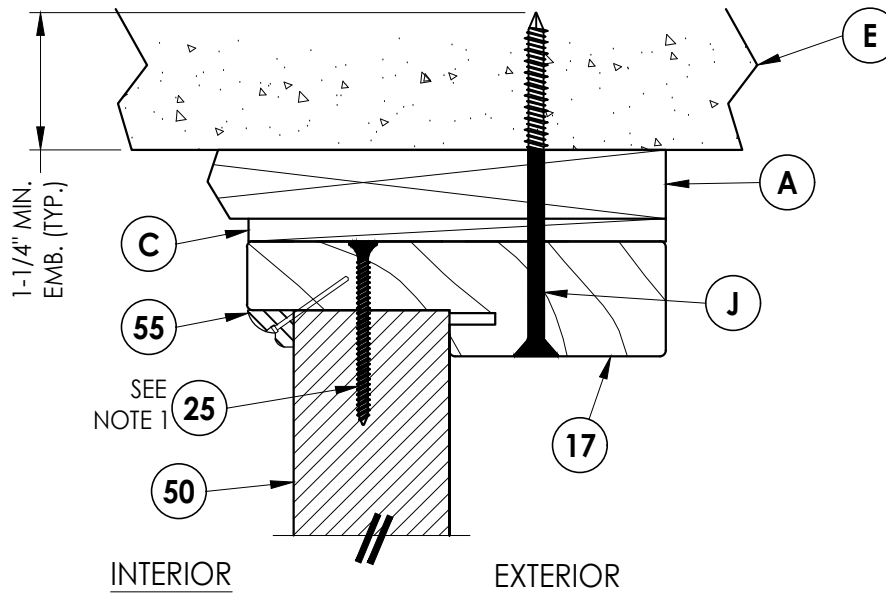
SHEET 6 OF 10



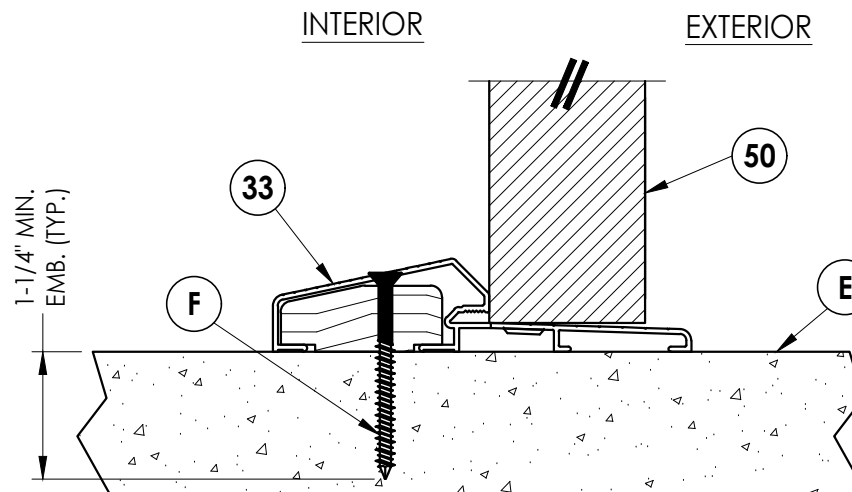
1
7 **VERTICAL CROSS SECTION**
Inswing shown - outswing
also approved



3
7 **VERTICAL CROSS SECTION**
Inswing configuration



2
7 **VERTICAL CROSS SECTION**
Shown w/1X sub-buck



4
7 **VERTICAL CROSS SECTION**
Outswing configuration

NOTE:

1. Screws thru head and sill jamb located 3" from each end.
2. Trim secured with 1" Brad Nail @ 6" O.C. (TYP).

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

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

PRODUCT:
MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS			
		BY	LFS	FBC	LFS
6	7/01/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
5	7/01/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
4	7/08/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS

DATE: 11/30/09

SCALE: N.T.S.

DWG. BY: AP

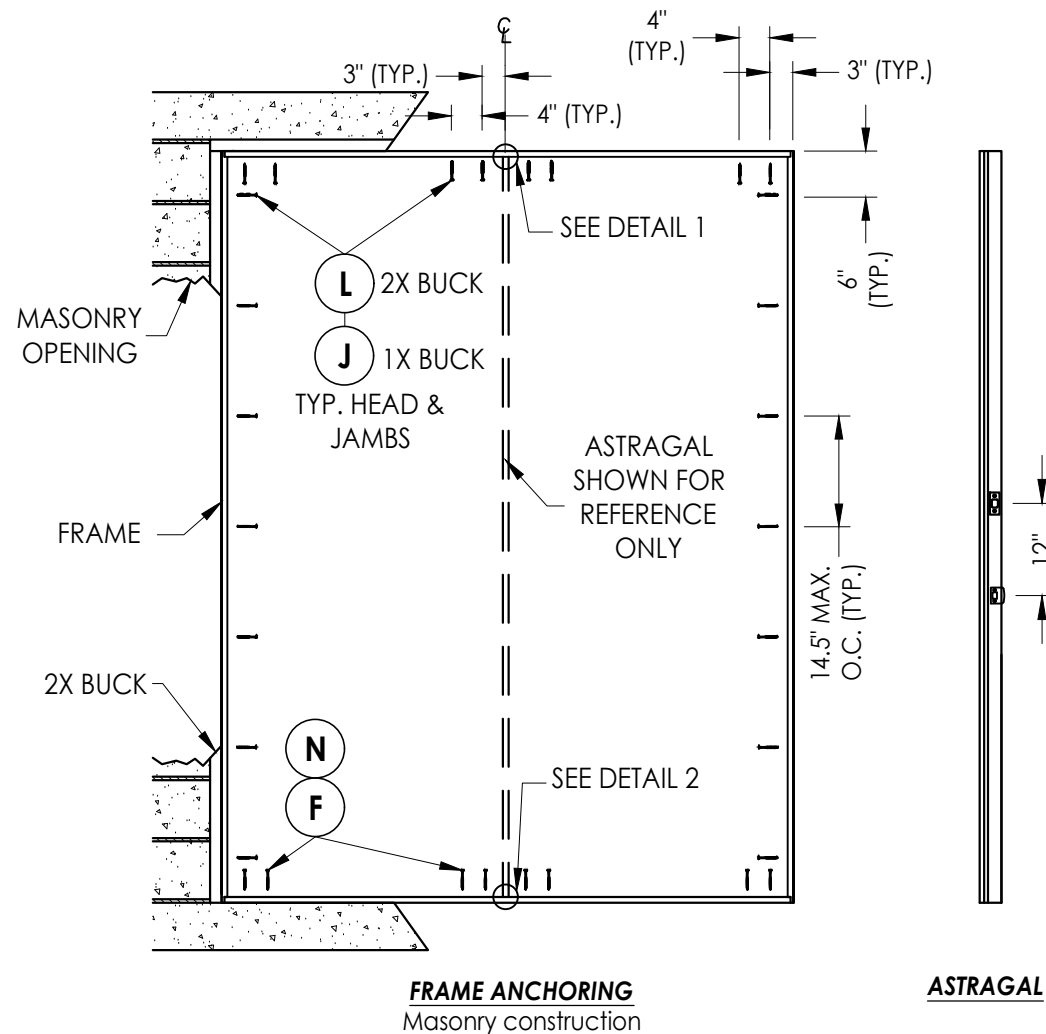
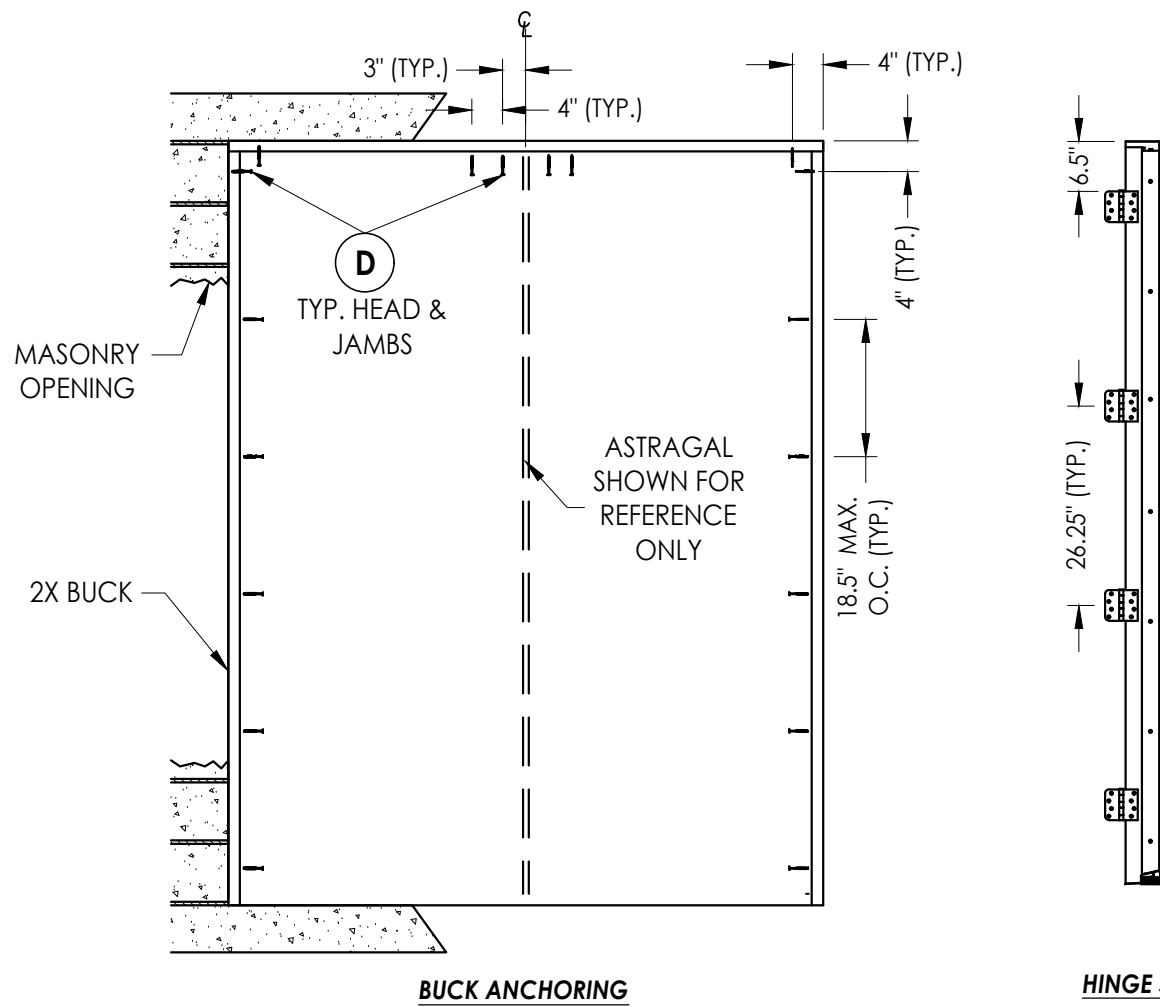
CHK. BY: LFS

DRAWING NO.:

FL-13320.4

SHEET 7 OF 10

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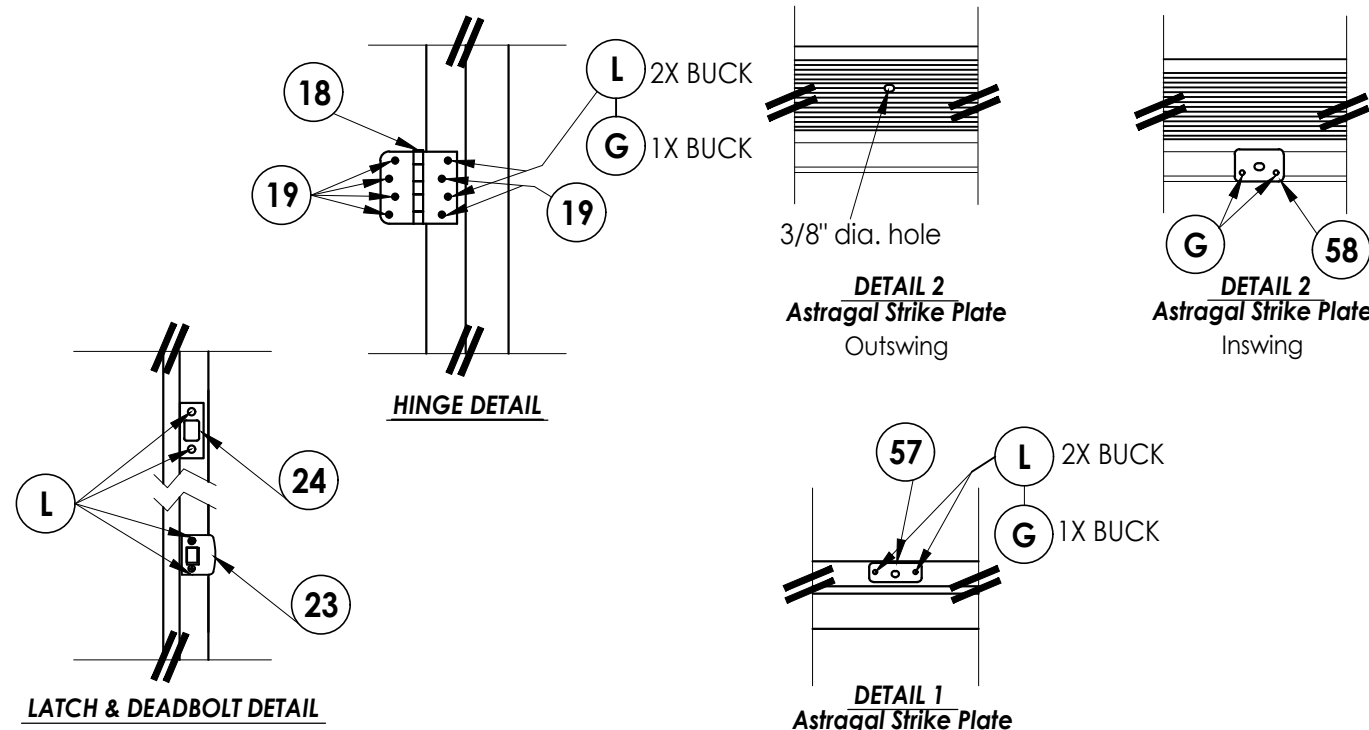
CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
3. Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



Documents Prepared By:
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P.E. No. 43409

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P.O. Box 230, Vairico, FL 33595
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FBPE Registry No. 9813

PRODUCT:
MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING
(XX)

NO.	DATE	REVISIONS
6	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
5	7/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	7/08/20	UPDATE TO 7TH ED. (2020) FBC LFS

DATE: 11/30/09

SCALE: N.T.S.

DWG. BY: AP

CHK. BY: LFS

DRAWING NO.:

FL-13320.4

SHEET 8 OF 10

