

GLAZED IRON DOUBLE DOOR w/ TRANSOM w/ or w/out SIDELITES

**IN SWING
 "NON-IMPACT"**

EVALUATED FOR USE IN THE STATE OF TEXAS

The Iron Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection, this system is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.2 of the IBC.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.

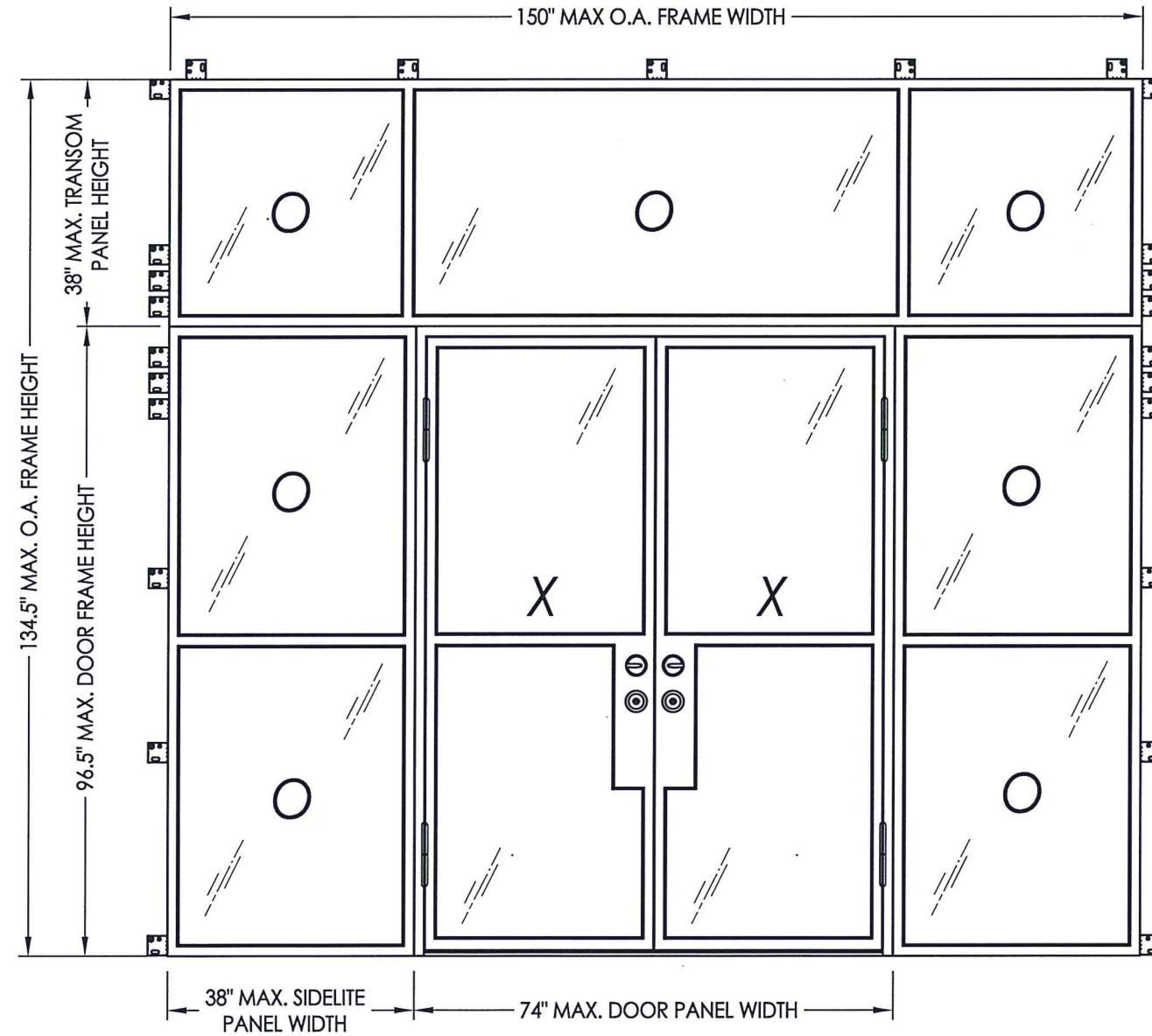


TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical Elevations, Design Pressures, & General Notes
2	Door Panel Details
3	Sidelite & Transom Panel Details
4	Elevations
5	Horizontal Cross Sections
6	Vertical Cross Sections
7	Frame anchoring
8	Bill of materials and components

CONFIGURATION	OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
$\frac{O}{XX}$	74" x 134.5"	+55.0	-60.0
$\frac{OOO}{OXXO}$	150" x 134.5"	+55.0	-60.0

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 TEXAS P.E. #104123

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

7.2.20

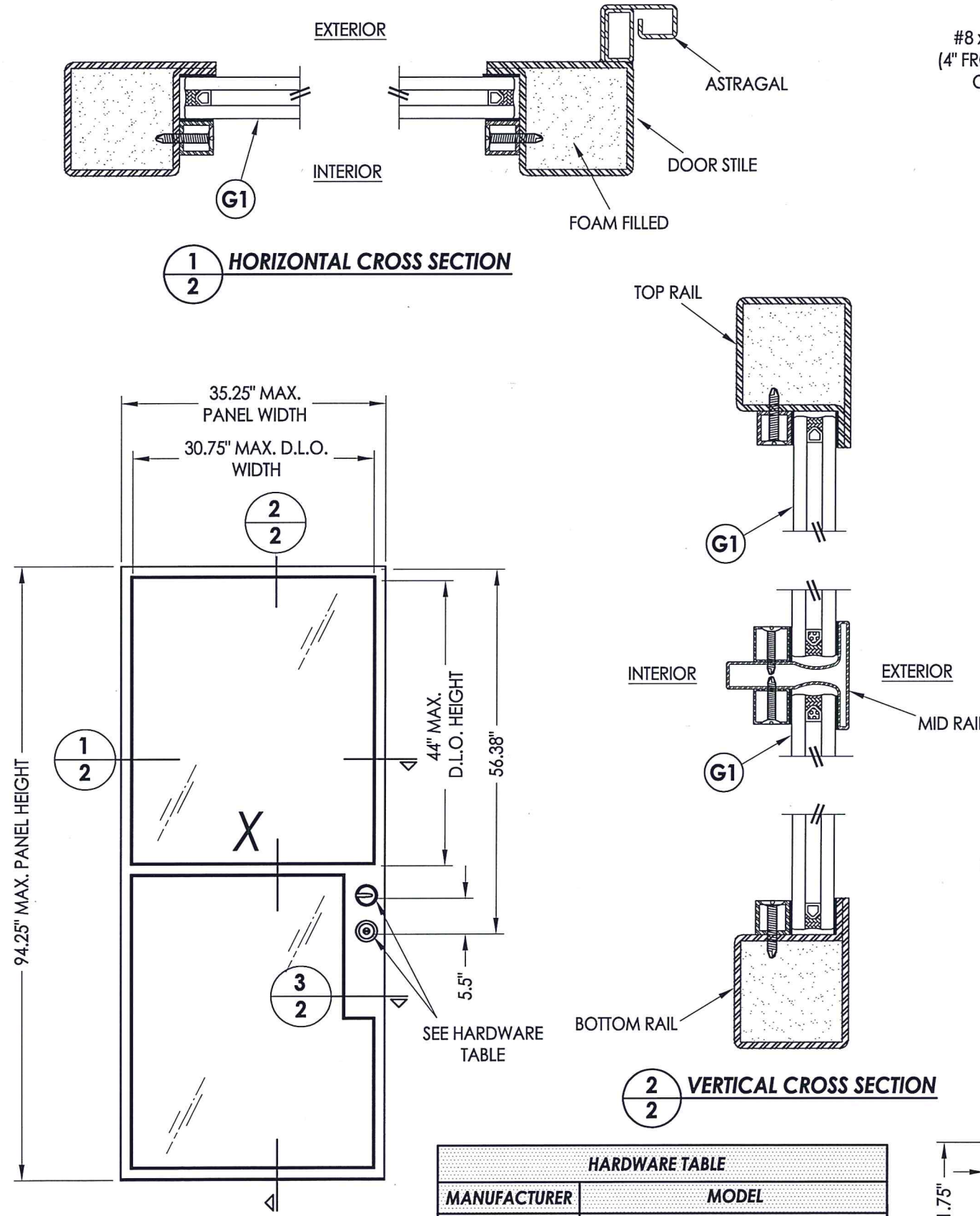
PRODUCT: COMPLEX INDUSTRIES GLAZED IRON DOOR

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

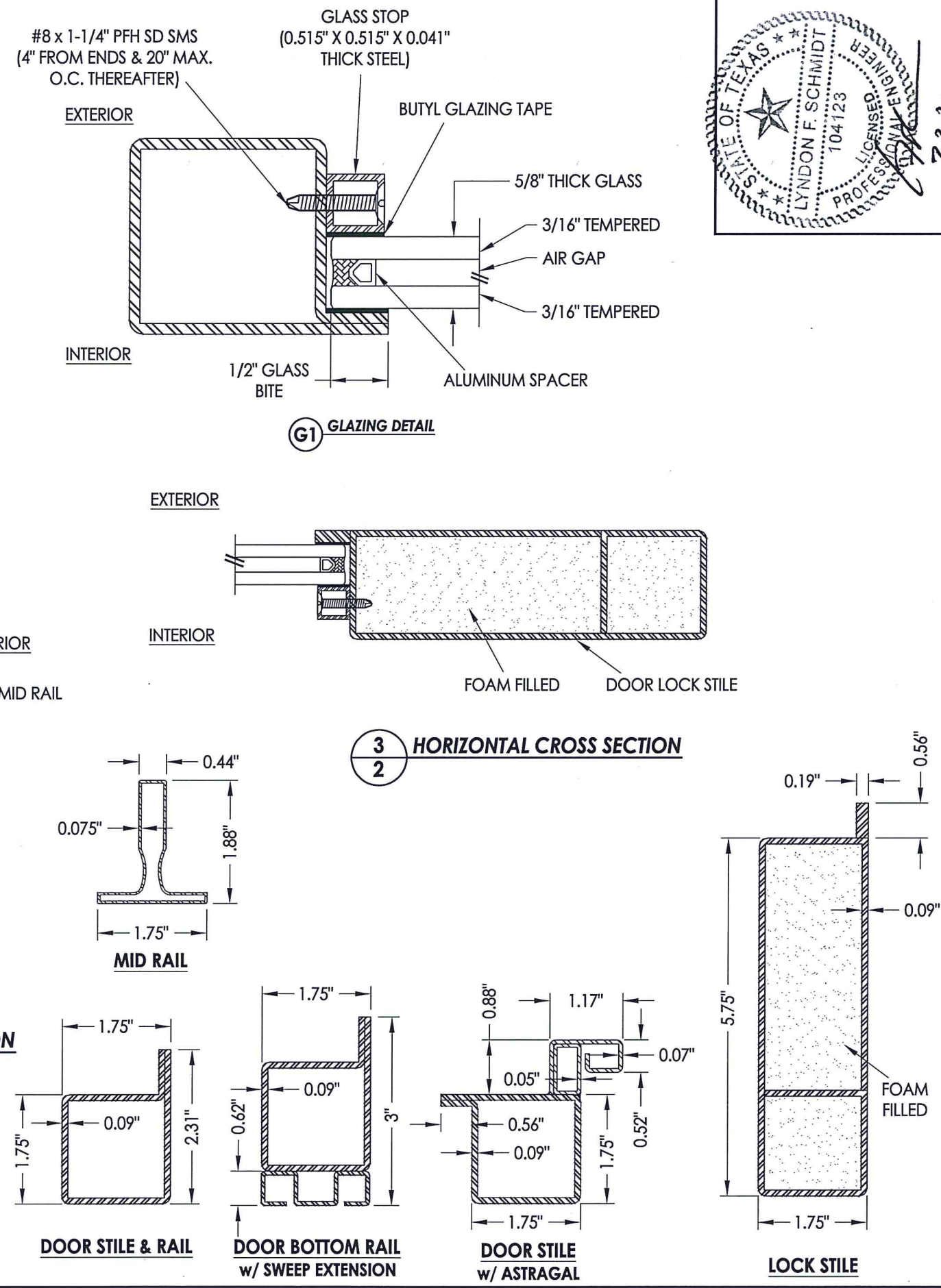
NO.	DATE	BY	REVISIONS
1	7/02/20	LFS	UPDATE TO 2018 IBC/IRC CODE

DATE: 8/26/19
 SCALE: N.T.S.
 DWG. BY: TRJ
 CHK. BY: LFS
 DRAWING NO.: TX-4946
 SHEET 1 OF 8

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HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	Knob: F51 Deadbolt: B60N
KWIKSET	Knob: SIGNATURE SERIES Deadbolt: SIGNATURE SERIES (980)

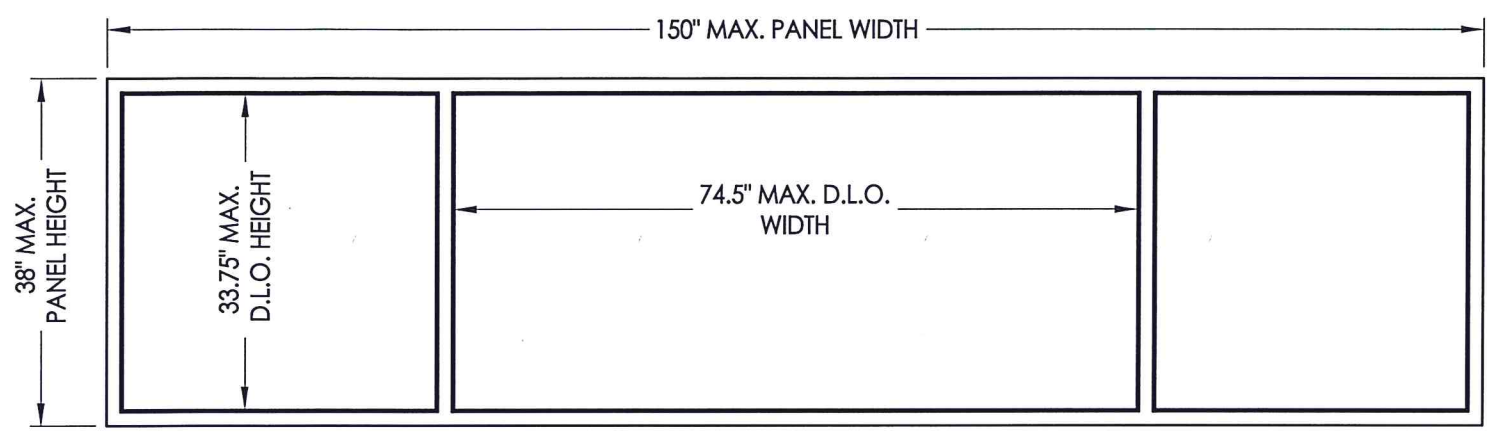


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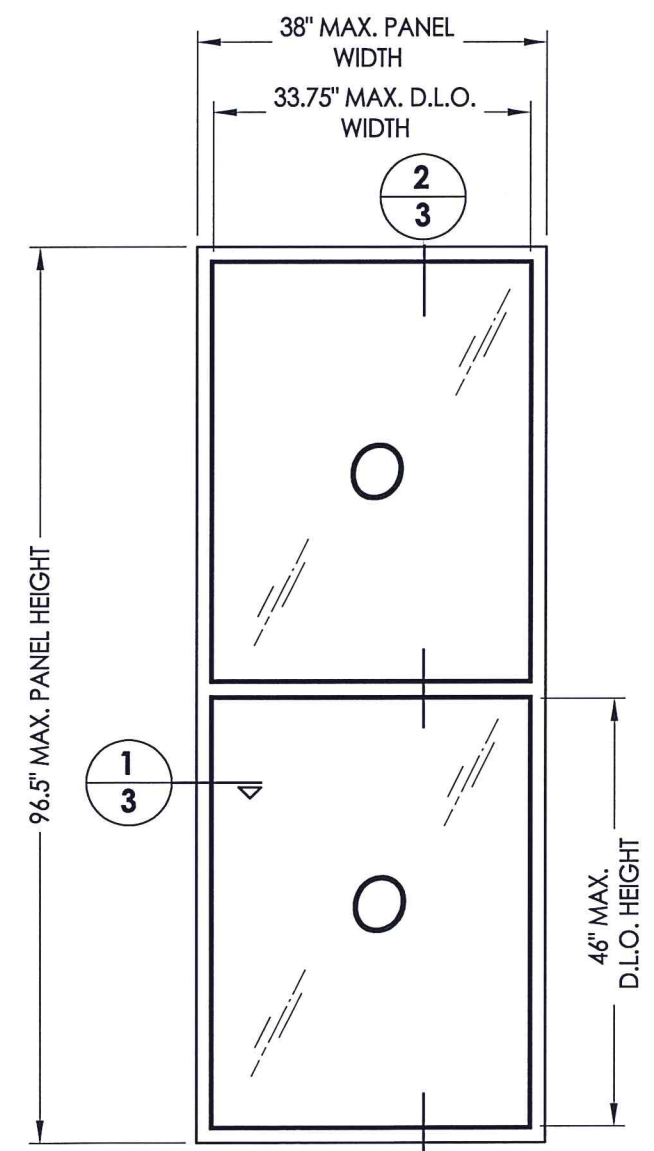
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PRODUCT:	COMPLEX INDUSTRIES GLAZED IRON DOOR	
PART OR ASSEMBLY:	DOOR PANEL DETAILS	
NO.	DATE	REVISIONS
1	7/02/20	UPDATE TO 2018 IBC/IRC CODE
LFS	BY	
DATE:	8/26/19	
SCALE:	N.T.S.	
DWG. BY:	TRJ	
CHK. BY:	LFS	
DRAWING NO.:	TX-4946	
SHEET	2 OF 8	



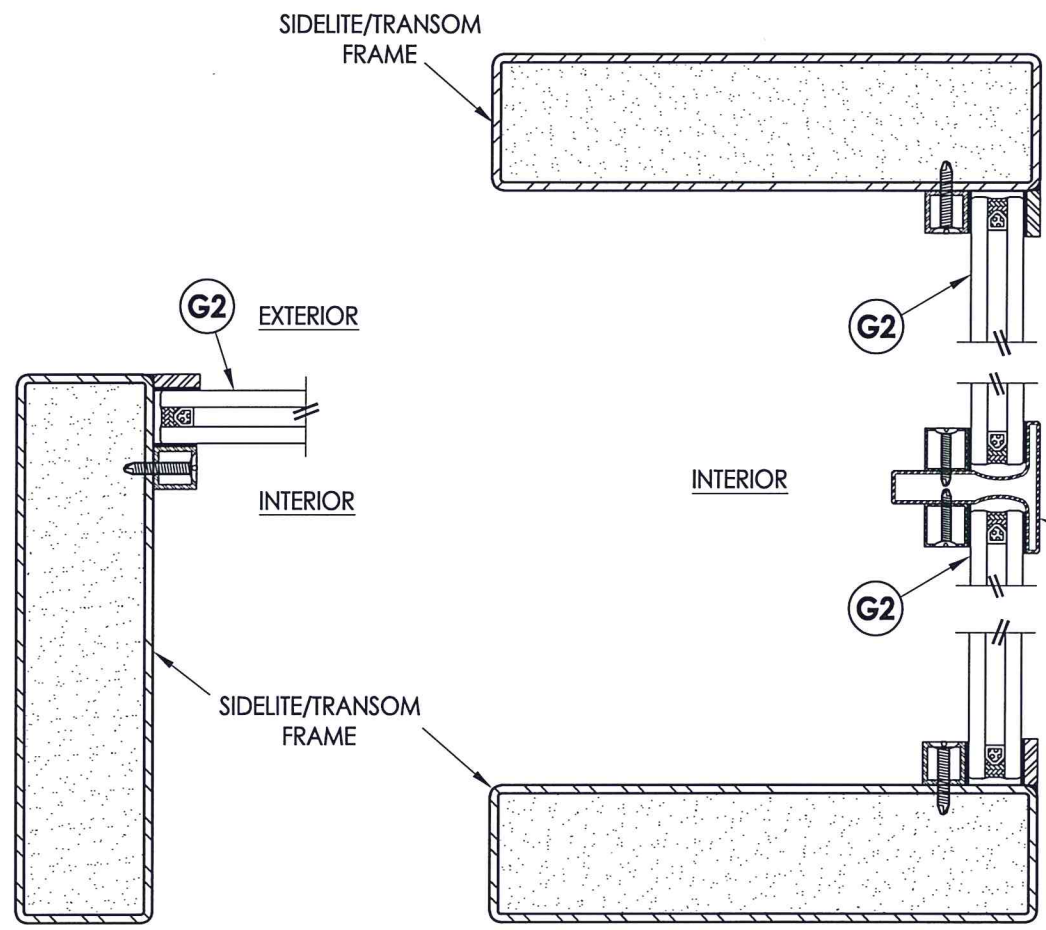
60 TRANSOM PANEL

NOTE: SIDELITE CROSS SECTIONS SHOWN
(TRANSOM CROSS SECTIONS SIMILAR)

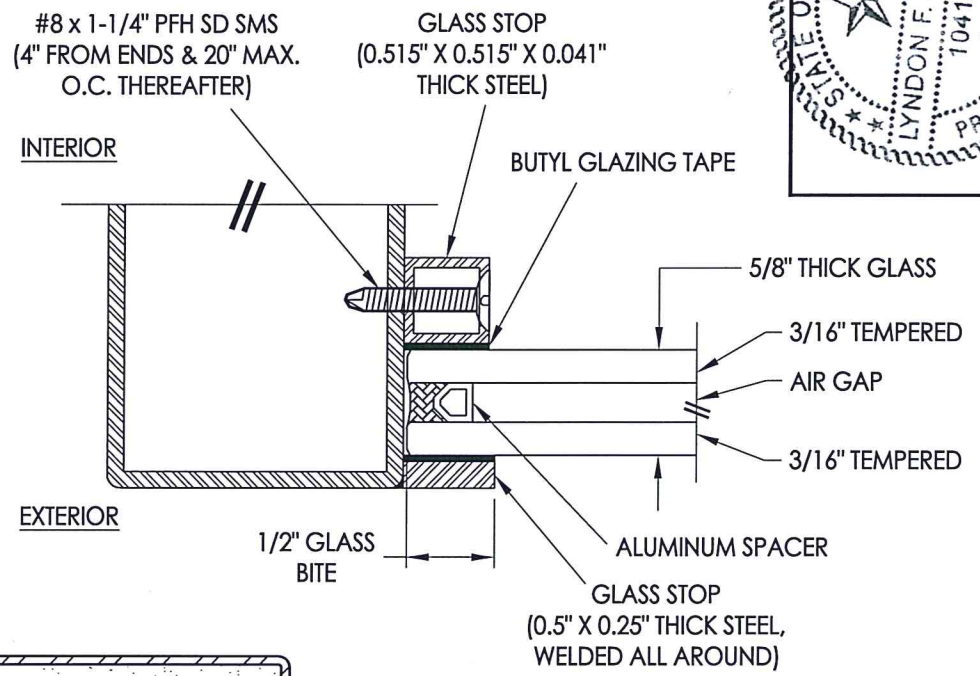


50 SIDELITE PANEL

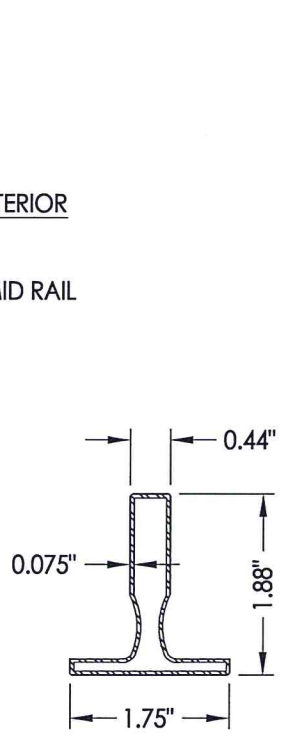
1 HORIZONTAL CROSS SECTION



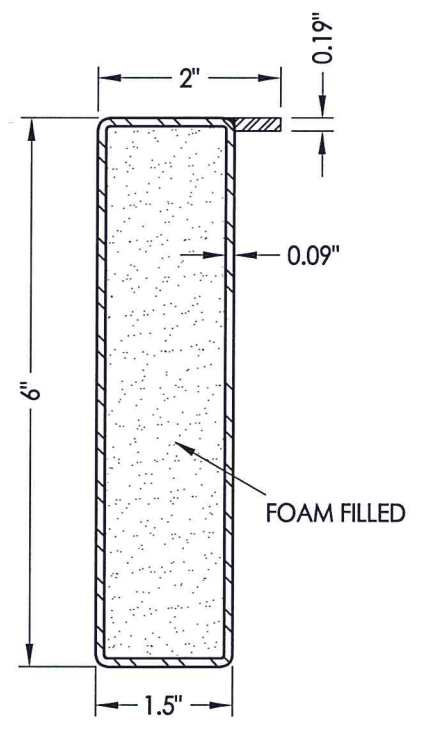
2 VERTICAL CROSS SECTION



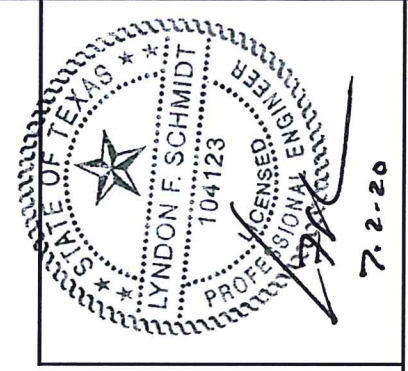
G2 GLAZING DETAIL



MID RAIL



SIDELITE/TRANSOM FRAME



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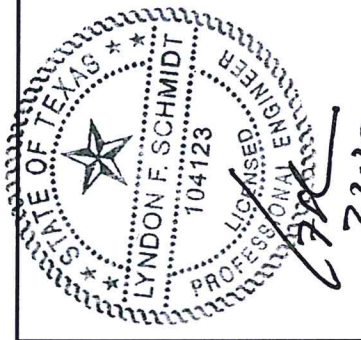
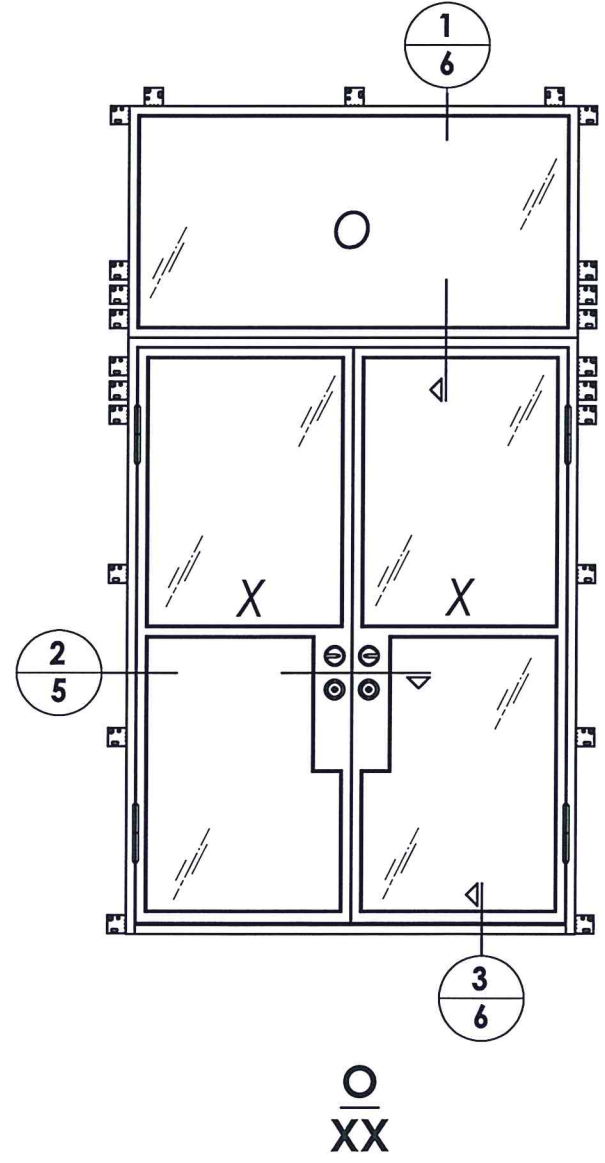
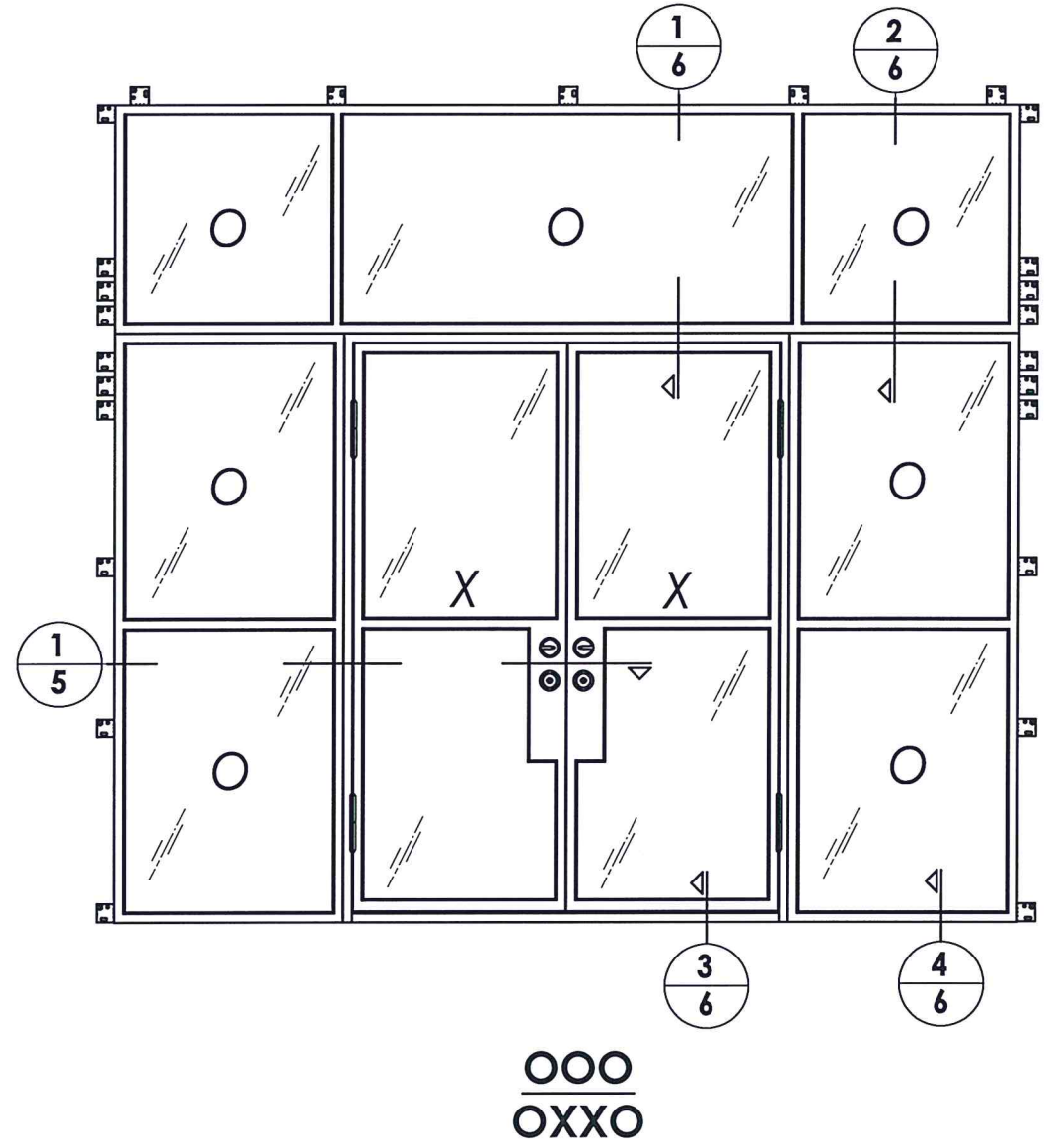
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: COMPLEX INDUSTRIES
GLAZED IRON DOOR

PART OR ASSEMBLY:
SIDELITE & TRANSOM
PANEL DETAILS

NO.	DATE	DESCRIPTION	BY
1	7/02/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 8/26/19
SCALE: N.T.S.
DWG. BY: TRJ
CHK. BY: LFS
DRAWING NO.: TX-4946
SHEET 3 OF 8

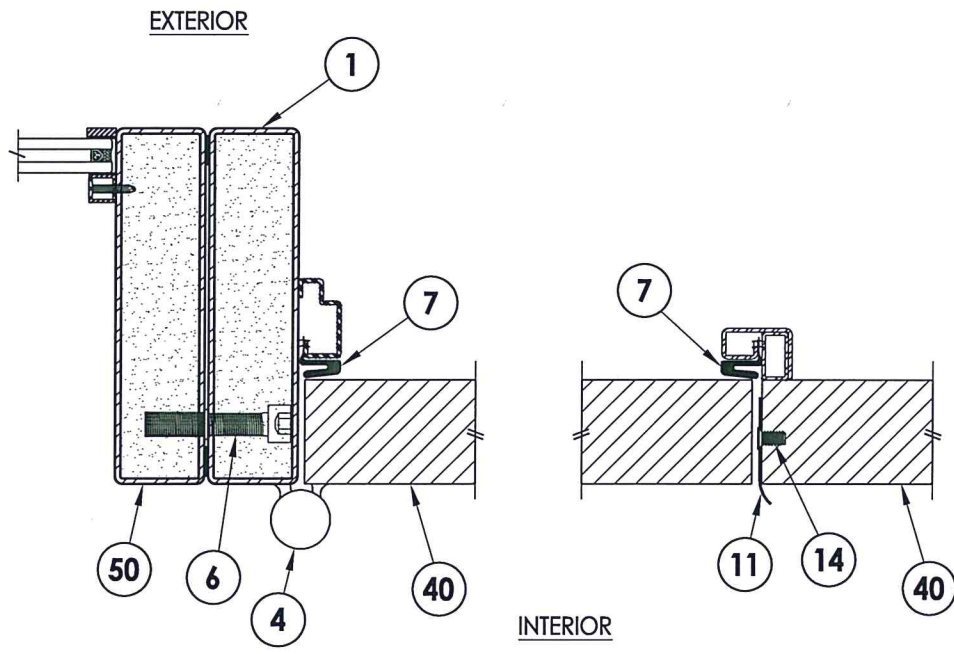
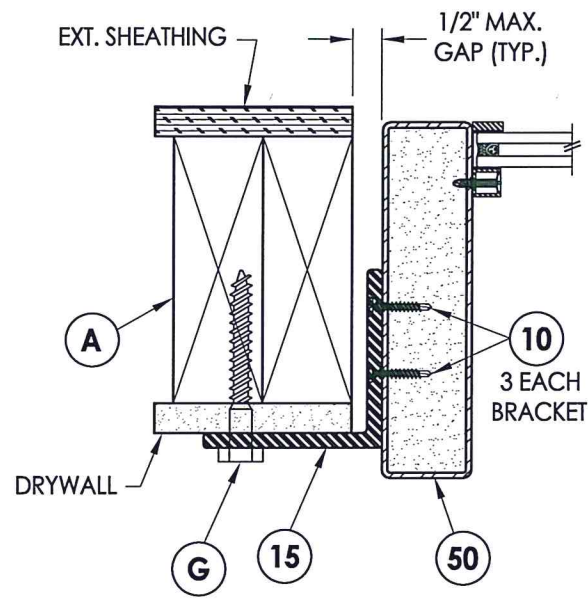


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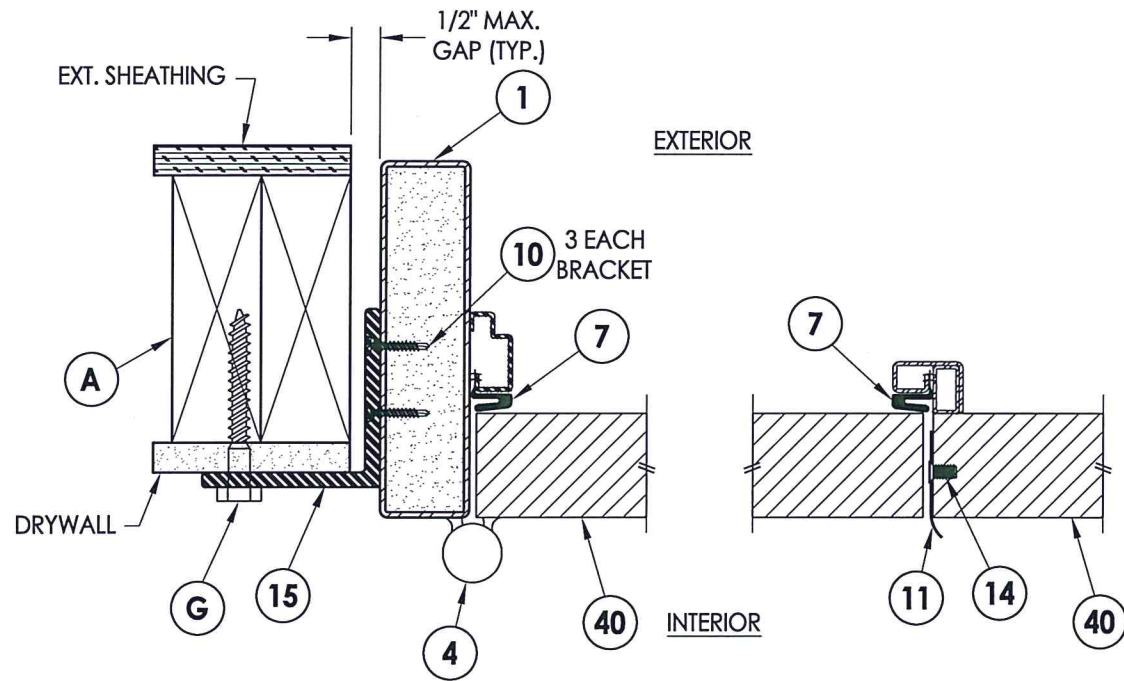
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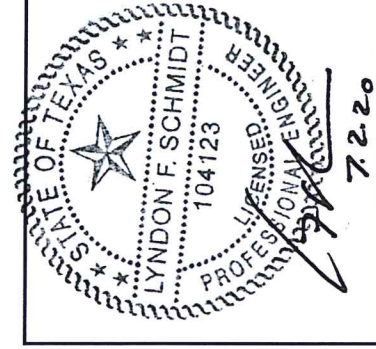
PRODUCT: COMPLEX INDUSTRIES GLAZED IRON DOOR	
PART OR ASSEMBLY: ELEVATIONS	
NO.	DATE
1	7/02/20
UPDATE TO 2018 IBC/IRC CODE	
LFS	BY
REVISIONS	
DATE: 8/26/19	
SCALE: N.T.S.	
DWG. BY: TRJ	
CHK. BY: LFS	
DRAWING NO.: TX-4946	
SHEET 4 OF 8	



1
5 HORIZONTAL CROSS SECTION



2
5 HORIZONTAL CROSS SECTION



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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:
COMPLEX INDUSTRIES
GLAZED IRON DOOR

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	UPDATE TO 2018 IBC/IRC CODE	BY
1	7/02/20		LFS

DATE: 8/26/19

SCALE: N.T.S.

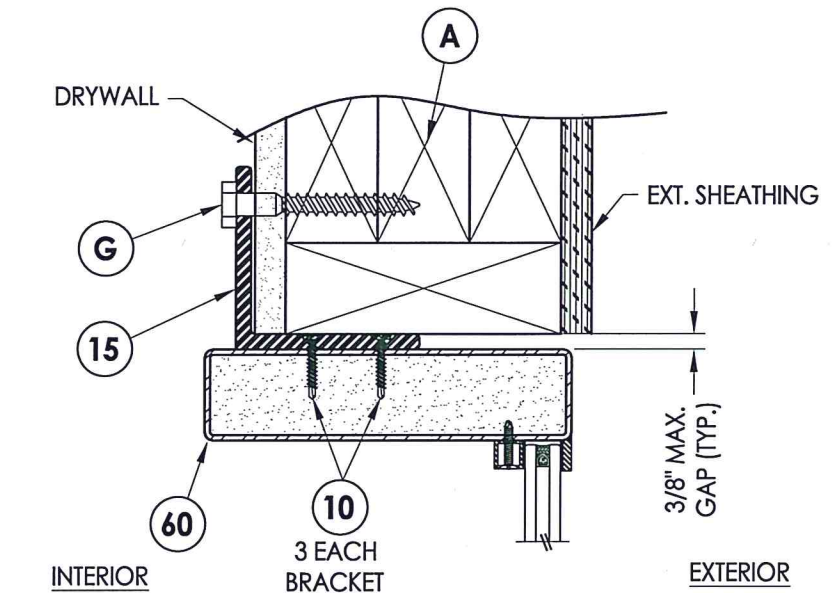
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CHK. BY: LFS

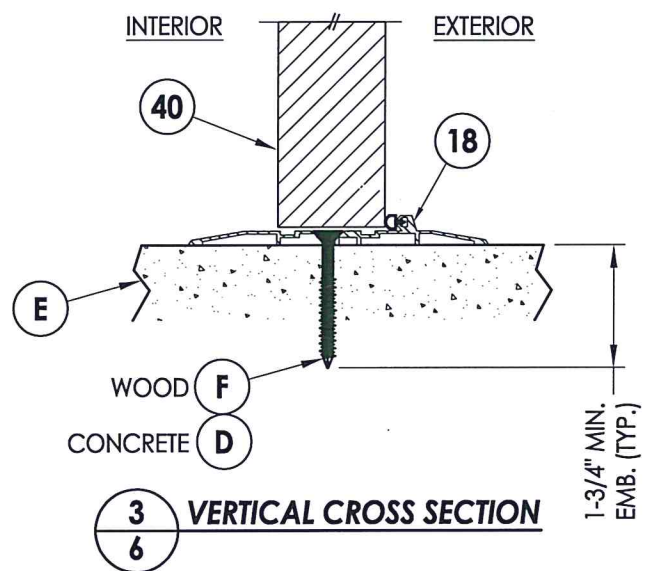
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TX-4946

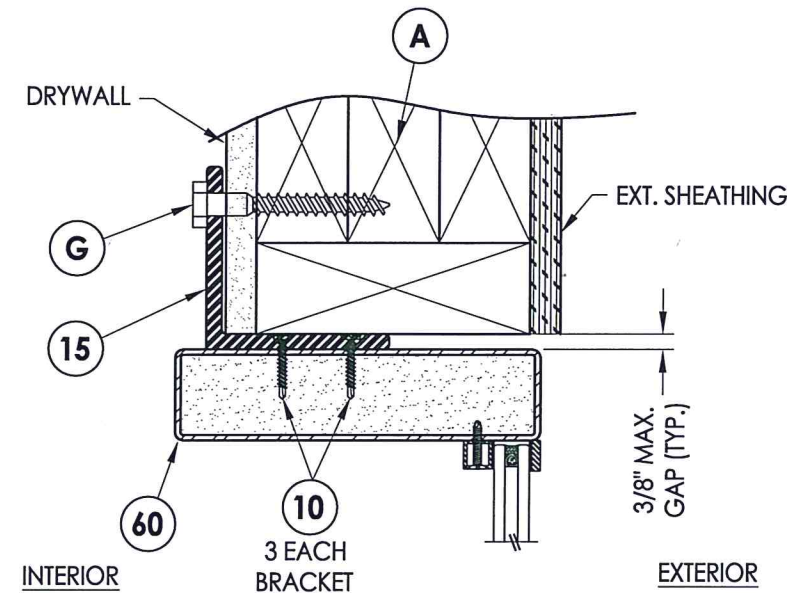
SHEET 5 OF 8



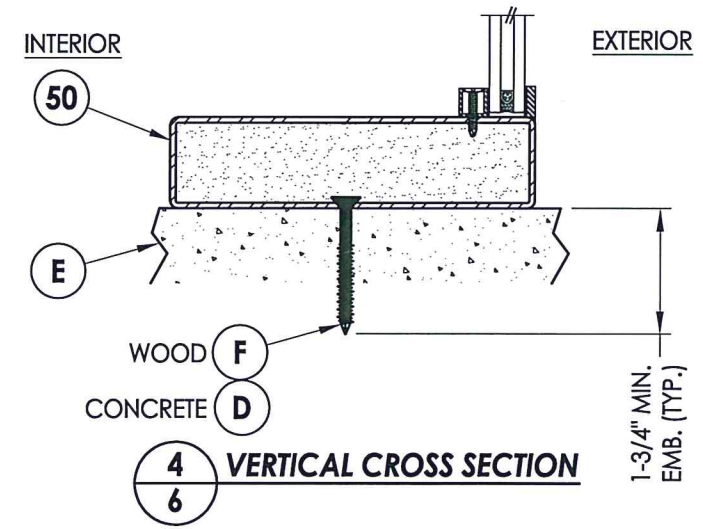
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6 VERTICAL CROSS SECTION



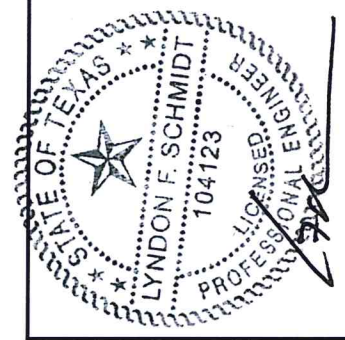
3
6 VERTICAL CROSS SECTION



2
6 VERTICAL CROSS SECTION



4
6 VERTICAL CROSS SECTION



7.2.20

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PRODUCT: COMPLEX INDUSTRIES GLAZED IRON DOOR

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	DESCRIPTION	BY
1	7/02/20	UPDATE TO 2018 IBC/IRC CODE	LFS
REVISIONS			

DATE: 8/26/19

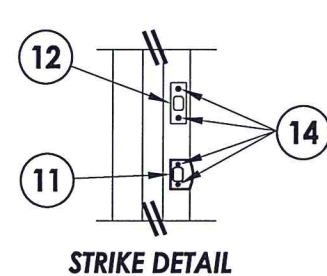
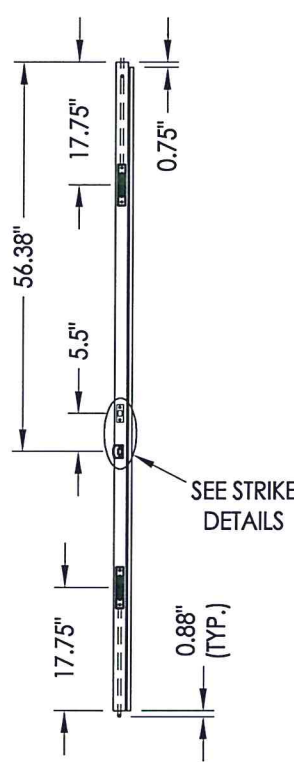
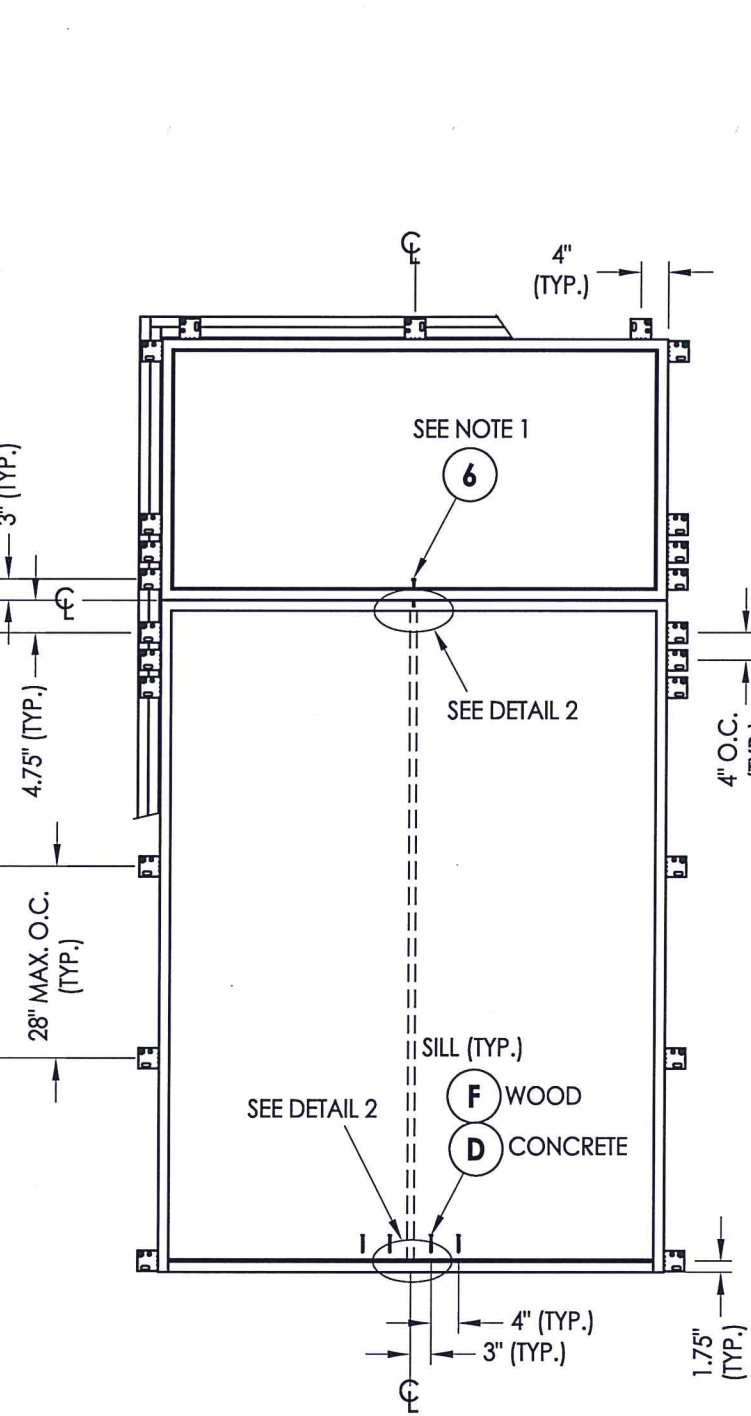
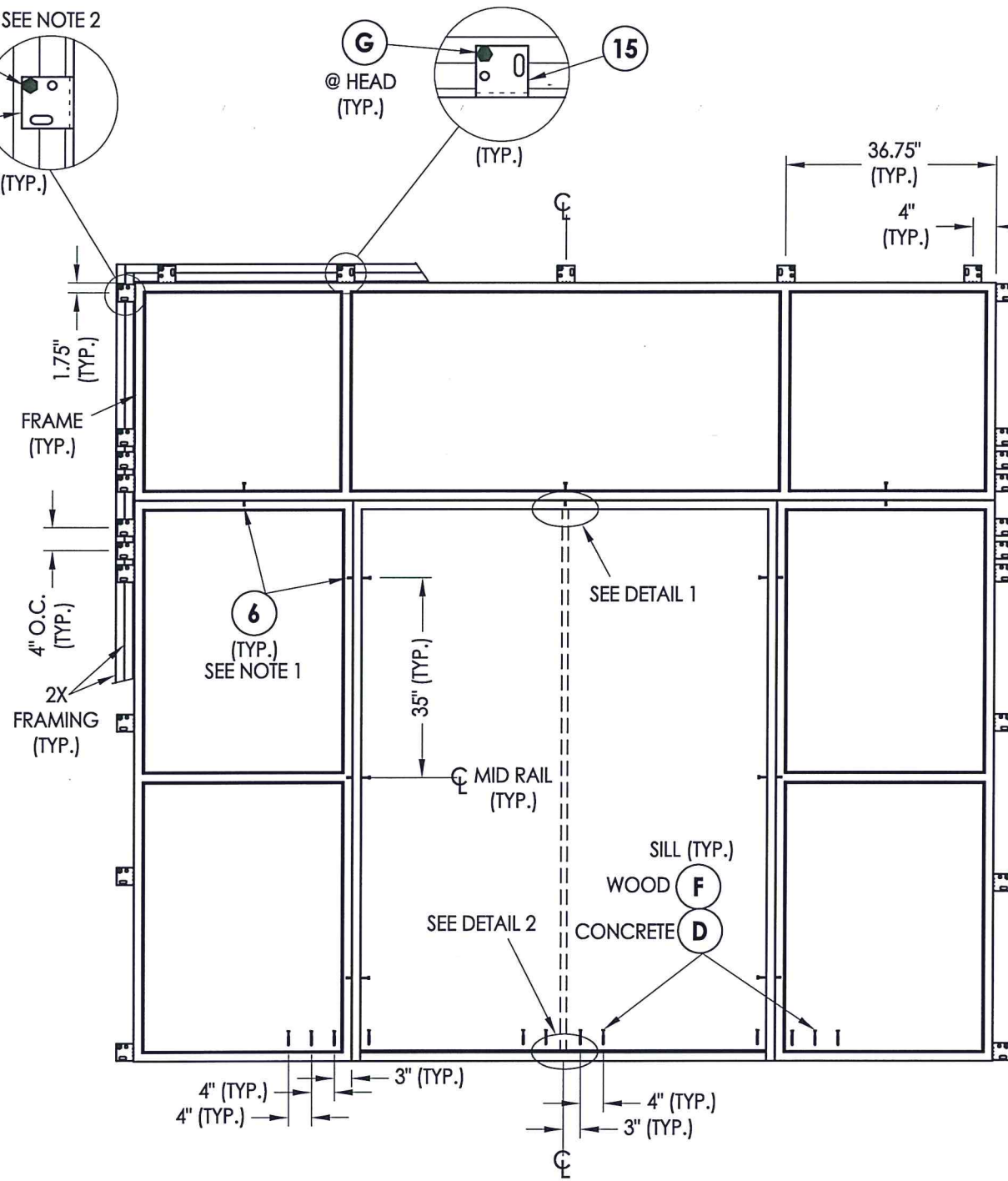
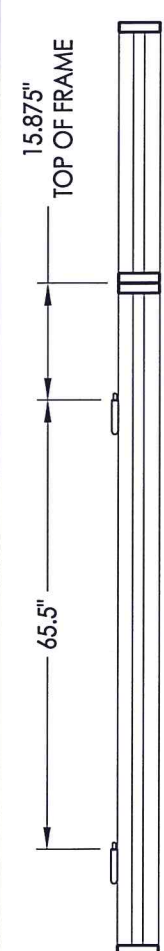
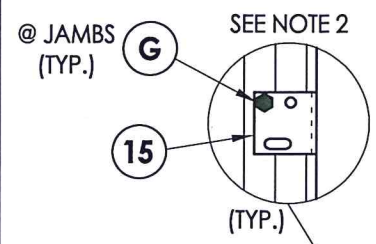
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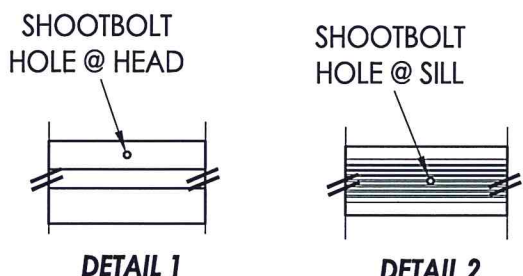
CHK. BY: LFS

DRAWING NO.: TX-4946

SHEET 6 OF 8



NOTES:
 1. Item 6 is located at the centerline of each transom sash and along door frame where indicated.
 2. Brackets located at the top & bottom of both jambs are welded to the frame, all others are screwed on.



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PRODUCT: COMPLEX INDUSTRIES GLAZED IRON DOOR
 PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	DESCRIPTION	BY
1	7/02/20	UPDATE TO 2018 IBC/IRC CODE	LFS

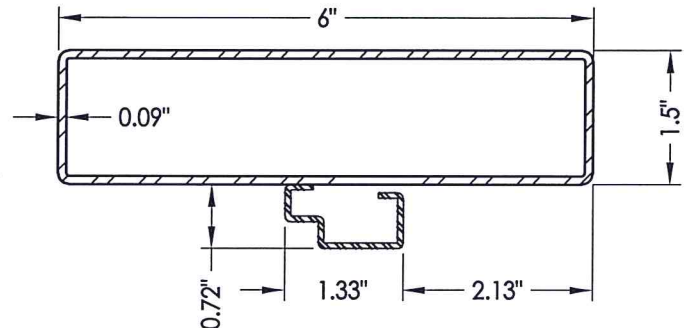
DATE: 8/26/19
 SCALE: N.T.S.
 DWG. BY: TRJ
 CHK. BY: LFS
 DRAWING NO.: TX-4946
 SHEET 7 OF 8

R:\Clients\Complex Industries PERMANENT\B - Texas Dept of Ins\TDI DR-1068 - Narrow Stile Iron Doors wwo Sidelites and Transoms\C - Drawings\TX-4945-4946.dwg, 2.8

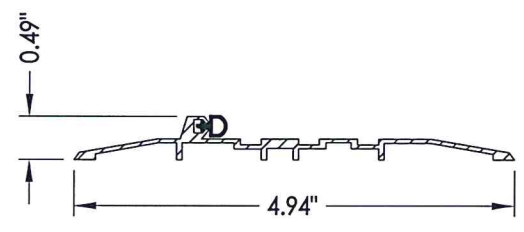
BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM	-
D	1/4" PFH ELCO OR ITW CONCRETE SCREW (1.5" MIN. EMBEDMENT)	STEEL
F	#10 PFH WOOD SCREW (1.5" MIN. EMBEDMENT)	STEEL
G	3/8" X 3" HWH LAG SCREW (2.75" MIN. EMBEDMENT)	STEEL
1	DOOR FRAME w/ STOP	STEEL
4	DOOR HINGE	STEEL
6	10mm X 25mm X 1.50 CAP HEAD SCREW w/ 10mm X 1.50 THREAD INSERT	STEEL
7	WEATHERSTRIP	FOAM
10	#8 X 1" PPH SELF-DRILLING SMS	STEEL
11	LATCH STRIKE PLATE	STEEL
12	DEADBOLT STRIKE PLATE	STEEL
14	#8-32 X 1/2" PFH MACHINE SCREW	STEEL
15	ANCHORING BRACKET	STEEL
18	ADA INSWING THRESHOLD	ALUM
40	DOOR PANEL	STEEL
50	SIDELITE PANEL	STEEL
60	TRANSOM PANEL	STEEL

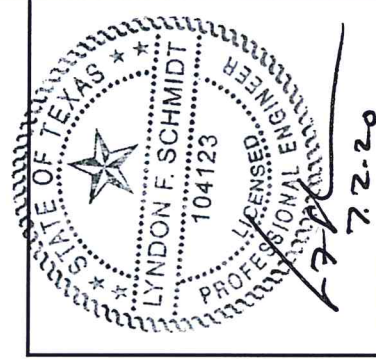
NOTE: ALL DOOR FRAME TUBULAR STEEL SHALL BE ASTM A36 STEEL



1 DOOR FRAME w/STOP



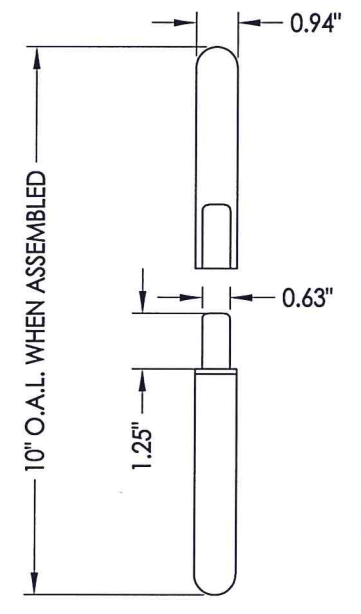
18 ADA INSWING THRESHOLD



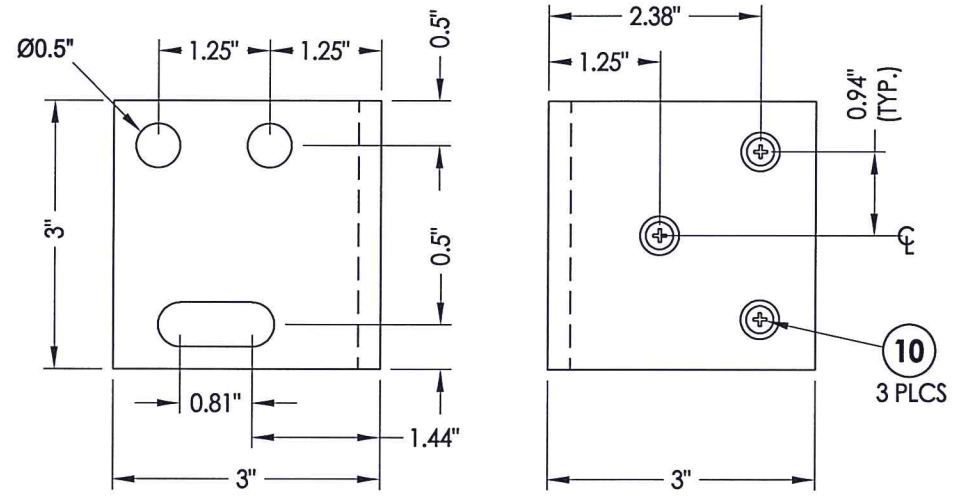
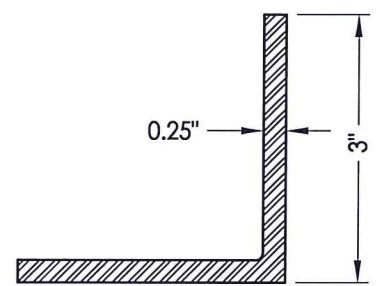
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4 DOOR HINGE



15 ANCHORING BRACKET

CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- 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.
- Concrete anchor table:

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

PRODUCT:	COMPLEX INDUSTRIES GLAZED IRON DOOR	
PART OR ASSEMBLY:	BILL OF MATERIALS AND COMPONENTS	
NO.	DATE	DESCRIPTION
1	7/02/20	UPDATE TO 2018 IBC/IRC CODE
LFS	BY	REVISIONS
DATE:	8/26/19	
SCALE:	N.T.S.	
DWG. BY:	TRJ	
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DRAWING NO.:	TX-4946	
SHEET	8	OF 8