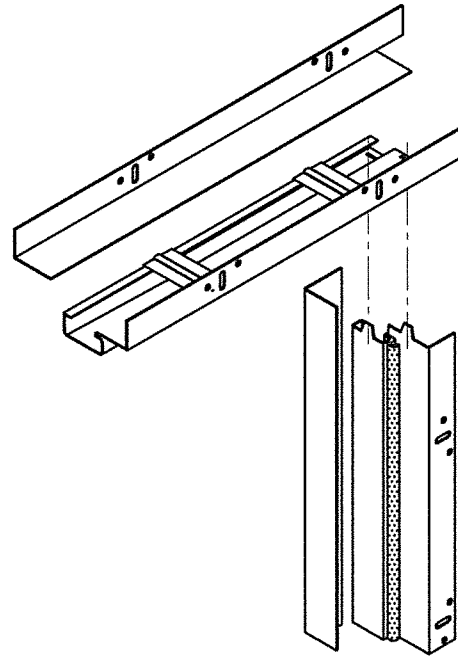


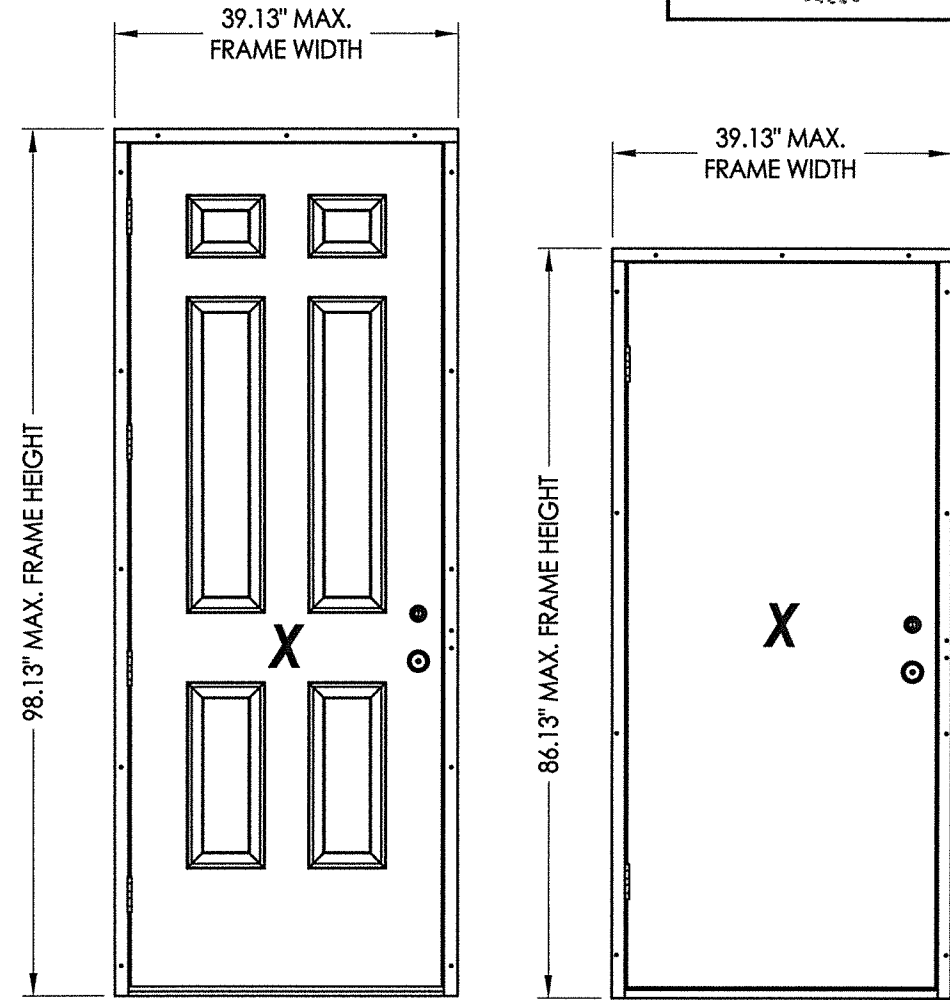


21300 W 8 Mile Rd.
Southfield, MI 48075-5638

ENTRY-FIT™ "K2A-Series" ADJUSTABLE STEEL DOOR FRAME Utilizing a Steel Door Panel "IMPACT"



ADJUSTABLE STEEL DOOR FRAME
K2A-Series



INSWING OR OUTSWING

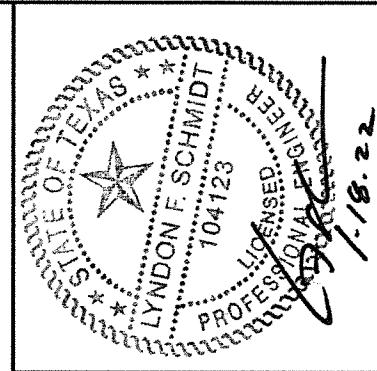
DOOR PANEL	MAX. OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
MASONITE	39.13" X 86.13"	+ 65.0	- 70.0	+ 70.0	- 70.0
MASONITE	39.13" X 98.13"	+ 65.0	- 70.0	+ 65.0	- 65.0

EVALUATED FOR USE IN THE STATE OF TEXAS

The Steel 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. This system has been tested and evaluated as a large missile impact protective system for installation in areas that require wind borne debris protection. This product meets missile level "D" as defined in ASTM E 1996.
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	Corner detail
4	Elevations
5	Horizontal cross sections
6	Vertical cross sections
7	Frame & buck anchoring (7'-0" door)
8	Frame & buck anchoring (8'-0" door)
9	Bill of materials and components



Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL 33595
Phone No.: 813.659.9197

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

PRODUCT: STEEL FRAME (K2A-SERIES)

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

NO.	DATE	DESCRIPTION	BY
1	1/12/22	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 5/07/19

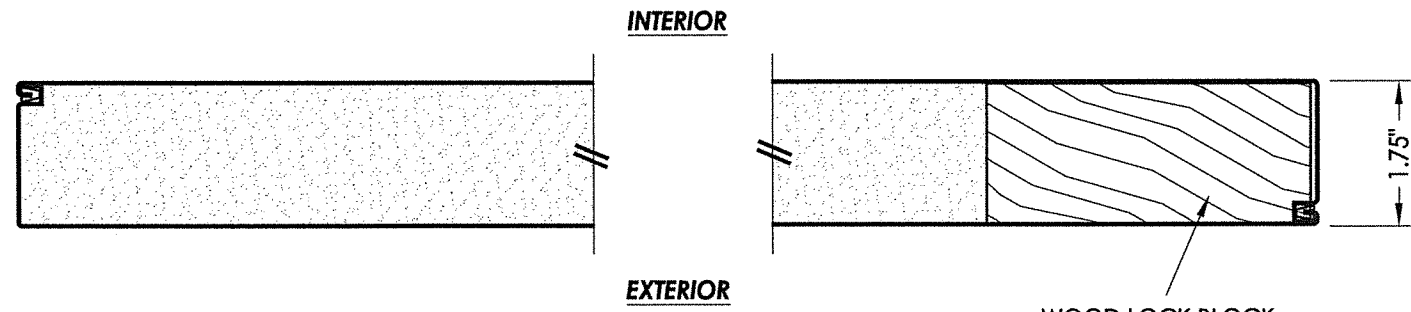
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DWG. BY: RW

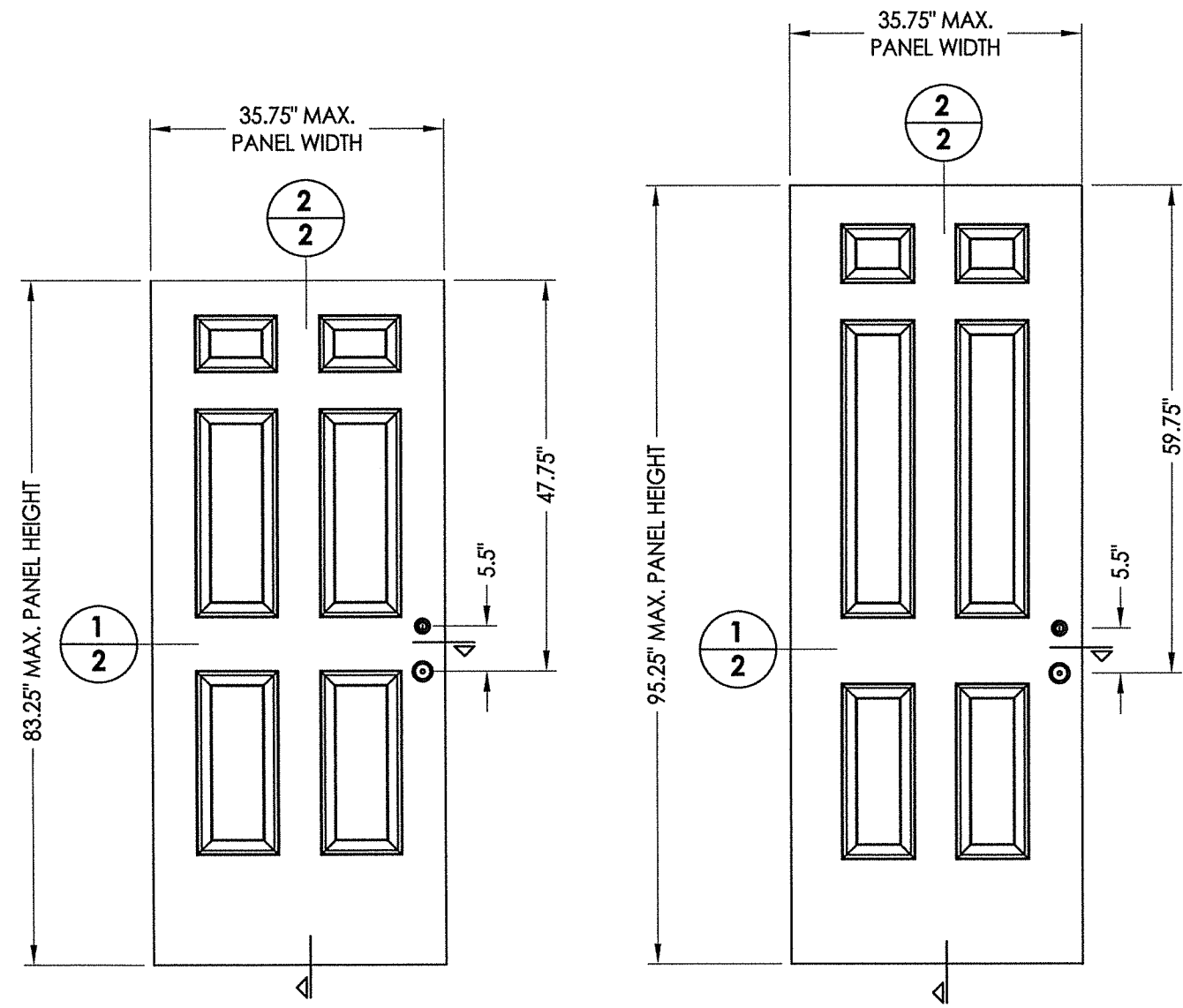
CHK. BY: LFS

DRAWING NO.: TX-4935

SHEET 1 OF 9



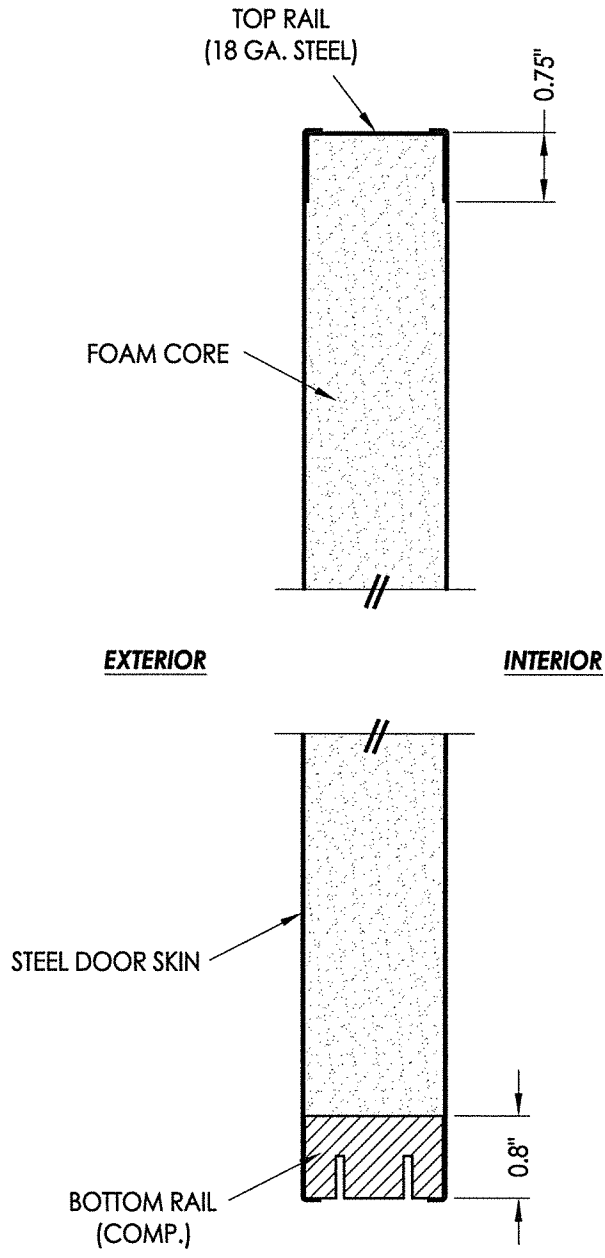
1
2 **HORIZONTAL CROSS SECTION**



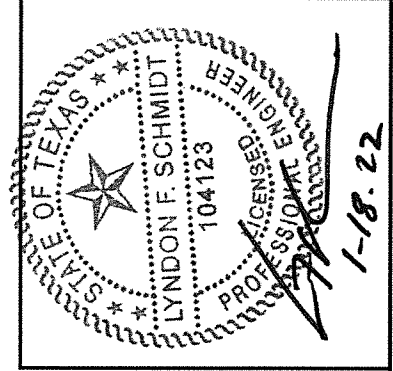
40 **7'-0\"/>**

50 **8'-0\"/>**

GALVANIZED STEEL DOOR SKIN: 0.023\"/>



2
2 **VERTICAL CROSS SECTION**



Documents Prepared By: Lyndon F. Schmidt, P.E.
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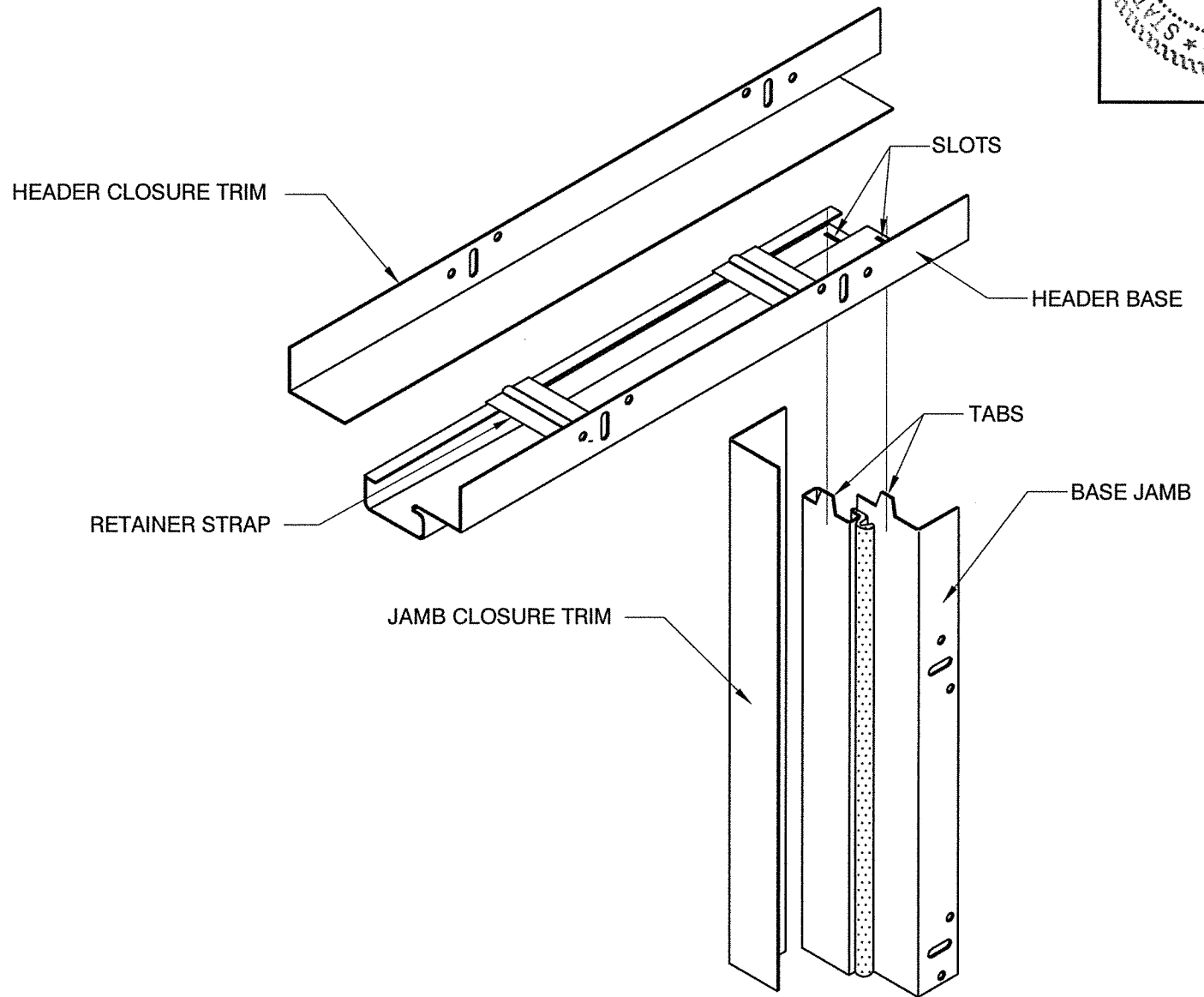
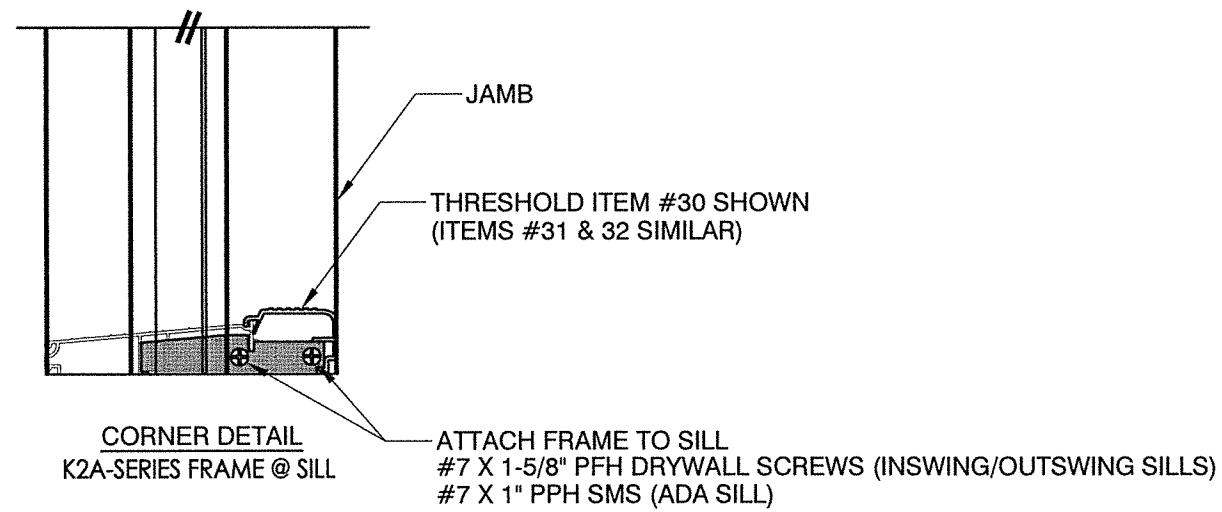
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

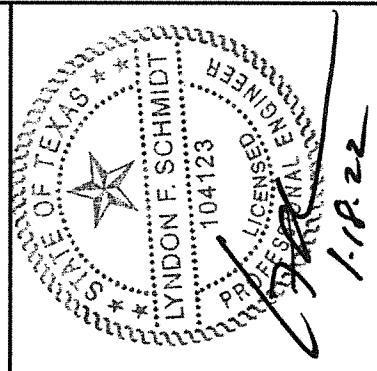
PRODUCT:	IDP STEEL FRAME (K2A-SERIES)
PART OR ASSEMBLY:	DOOR PANEL DETAILS

NO.	DATE	REVISIONS	BY
1	1/12/22	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE:	5/07/19
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-4935
SHEET	2 OF 9



CORNER DETAIL
IDP ENTRY-FIT™ ADJUSTABLE
STEEL DOOR FRAME (K2A-SERIES)

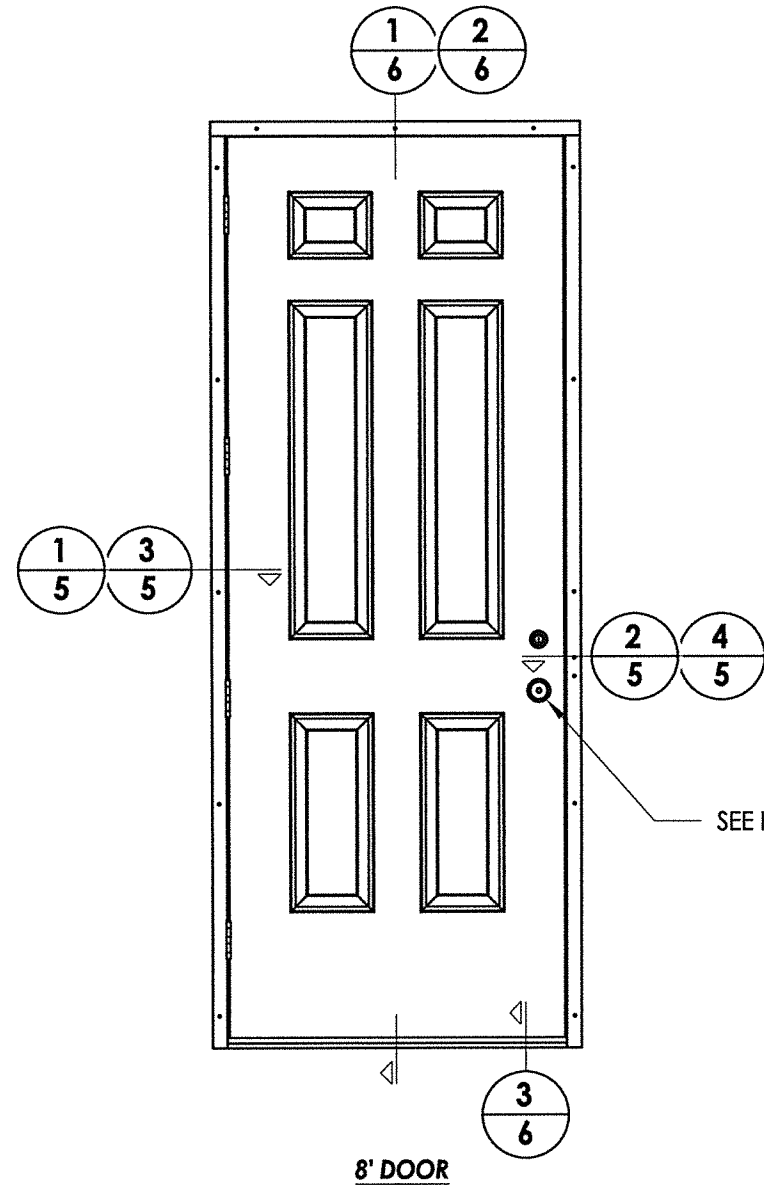


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

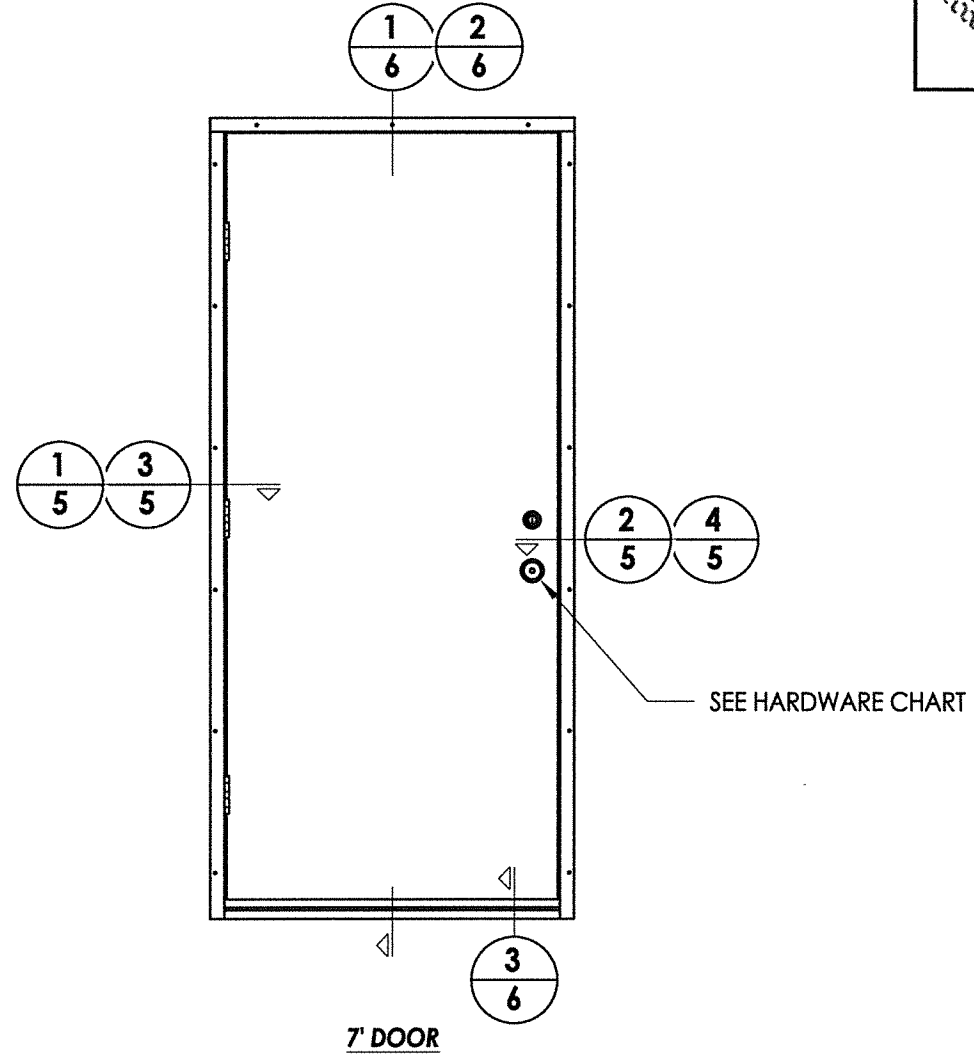
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

PRODUCT:	IDP	
	STEEL FRAME (K2A-SERIES)	
PART OR ASSEMBLY:	CORNER DETAIL	
NO.	DATE	BY
1	1/12/22	LFS
UPDATE TO 2018 IBC/IRC CODE		
REVISIONS		
DATE:	5/07/19	
SCALE:	N.T.S.	
DWG. BY:	RW	
CHK. BY:	LFS	
DRAWING NO.:	TX-4935	
SHEET	3	OF 9

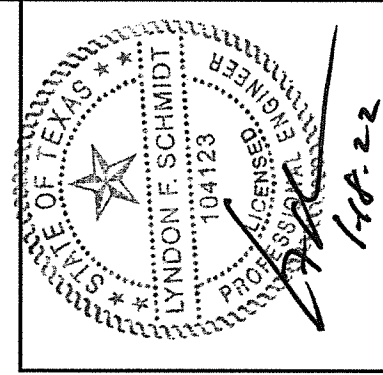


8' DOOR



7' DOOR

HARDWARE CHART	
MANUFACTURER	MODEL
SCHLAGE	LEVER: "F" SERIES (F51) DEADBOLT: "B" SERIES (B60N)



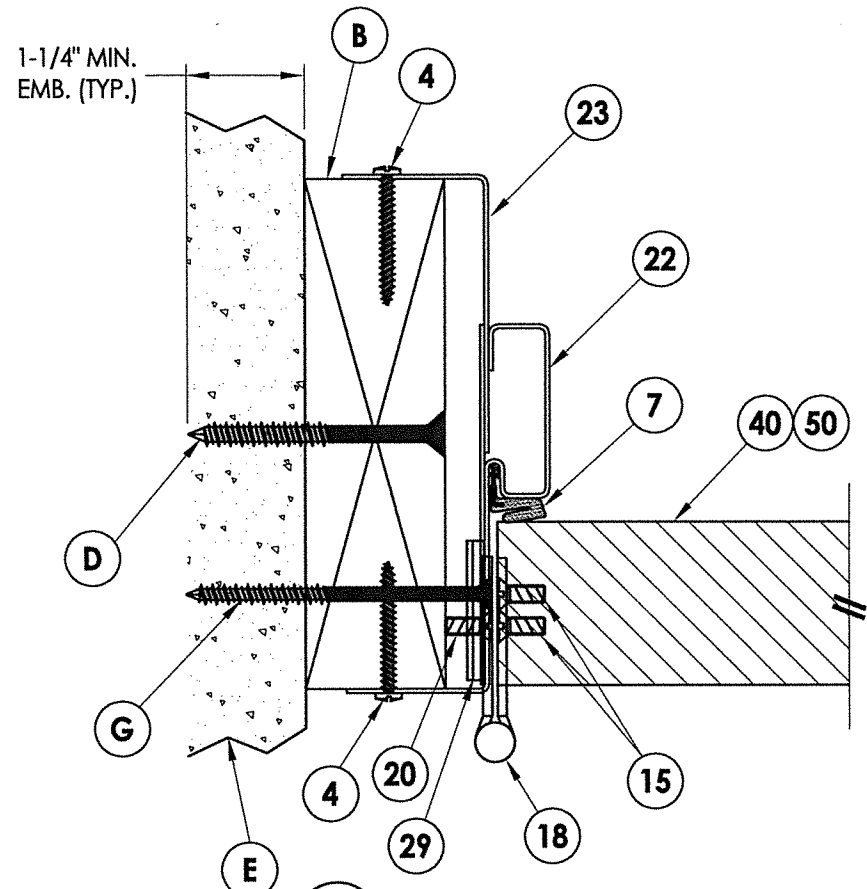
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

PRODUCT:	IDP	
	STEEL FRAME (KZA-SERIES)	
PART OR ASSEMBLY:	ELEVATIONS	
NO.	DATE	REVISIONS
1	1/12/22	UPDATE TO 2018 IBC/IRC CODE LFS BY
DATE: 5/07/19		
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CHK. BY: LFS		
DRAWING NO.: TX-4935		
SHEET 4 of 9		

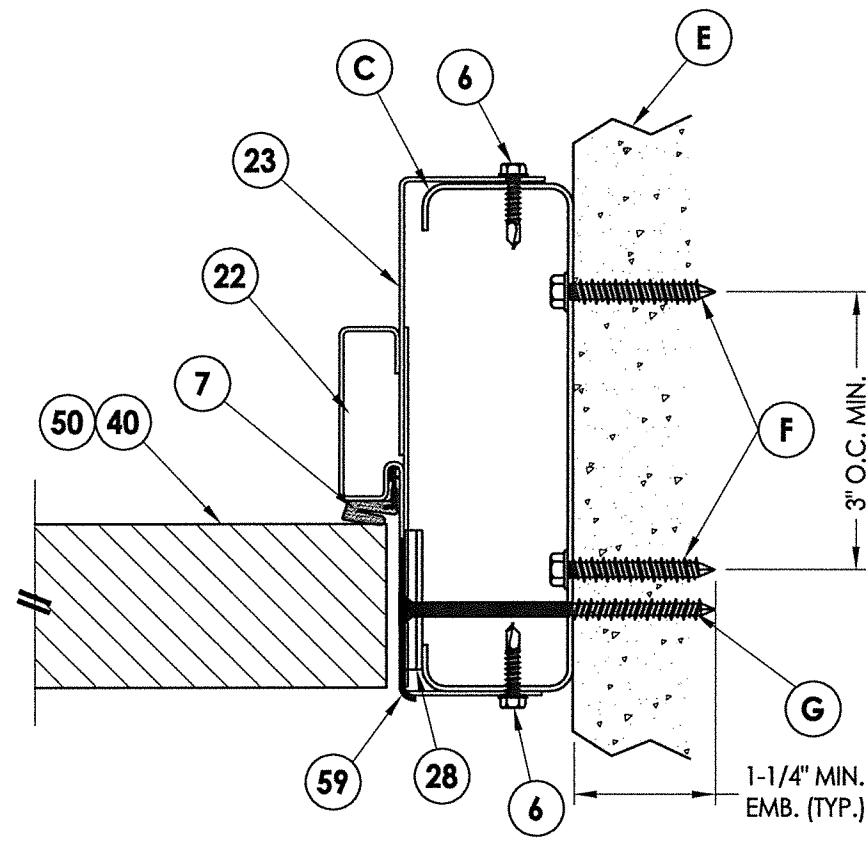
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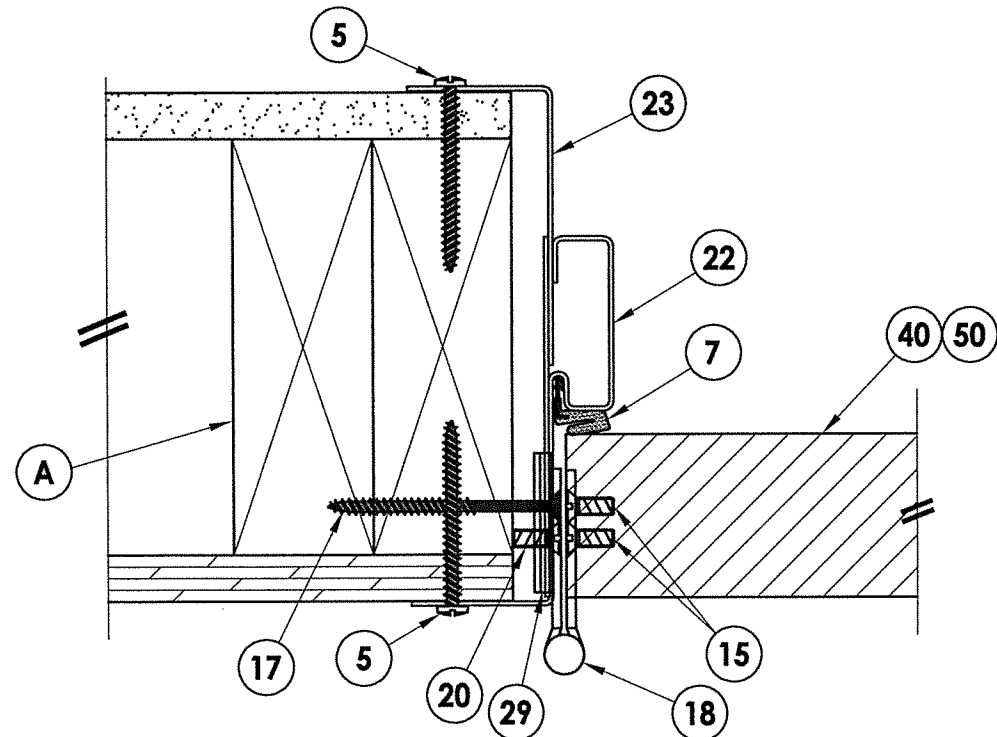
1 HORIZONTAL CROSS SECTION
5 2x Buck Construction
 Outswing Shown (Inswing Similar)

INTERIOR

EXTERIOR



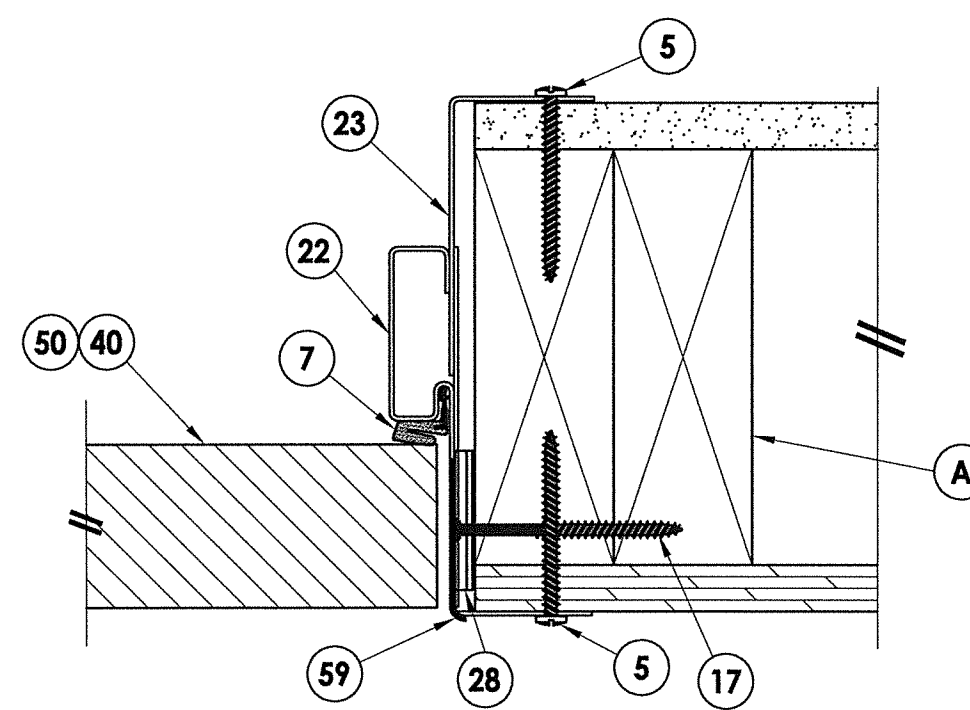
2 HORIZONTAL CROSS SECTION
5 Steel Stud Construction
 Outswing Shown (Inswing Similar)



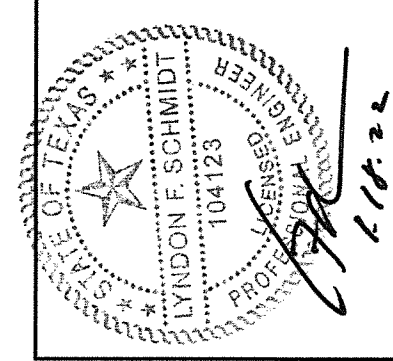
3 HORIZONTAL CROSS SECTION
5 2x Stud Construction
 Outswing Shown (Inswing Similar)

INTERIOR

EXTERIOR



4 HORIZONTAL CROSS SECTION
5 2x Stud Construction
 Outswing Shown (Inswing Similar)

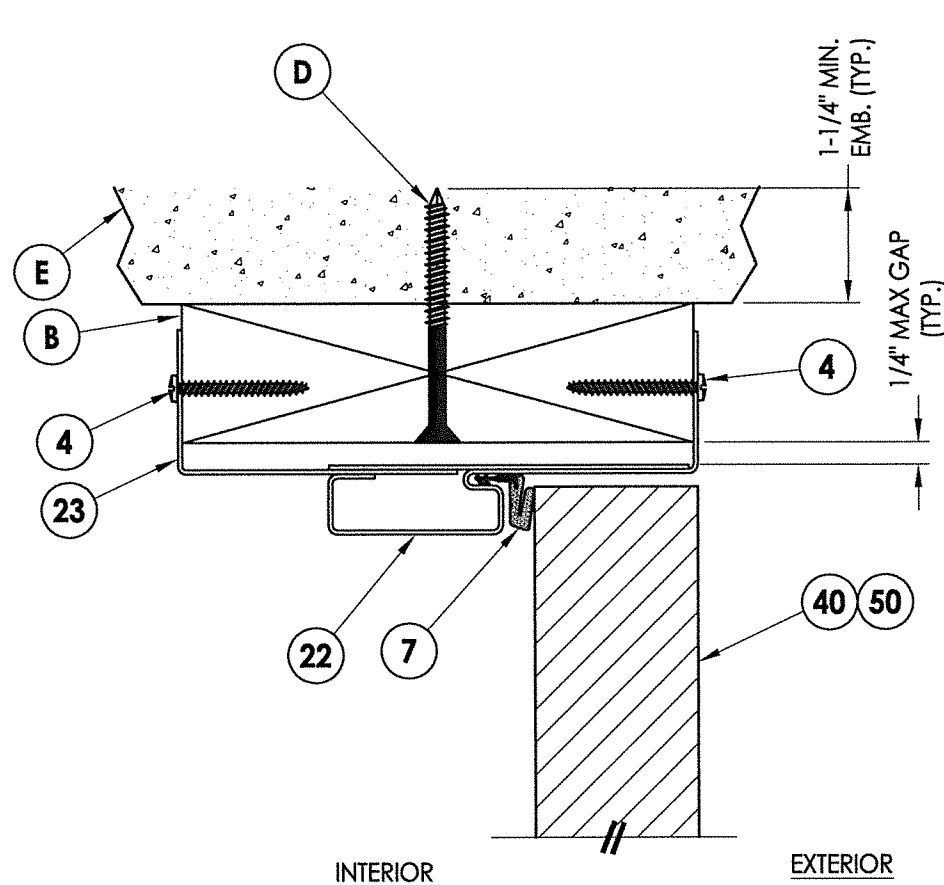


Documents Prepared By: Lyndon F. Schmidt, P.E.
 TEXAS P.E. #104123
RW BUILDING CONSULTANTS, INC.
 P.O. Box 230 Vairico FL 33595
 Phone No.: 813.659.9197
 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: IDP
 STEEL FRAME (K2A-SERIES)
 PART OR ASSEMBLY:
 HORIZONTAL CROSS SECTIONS

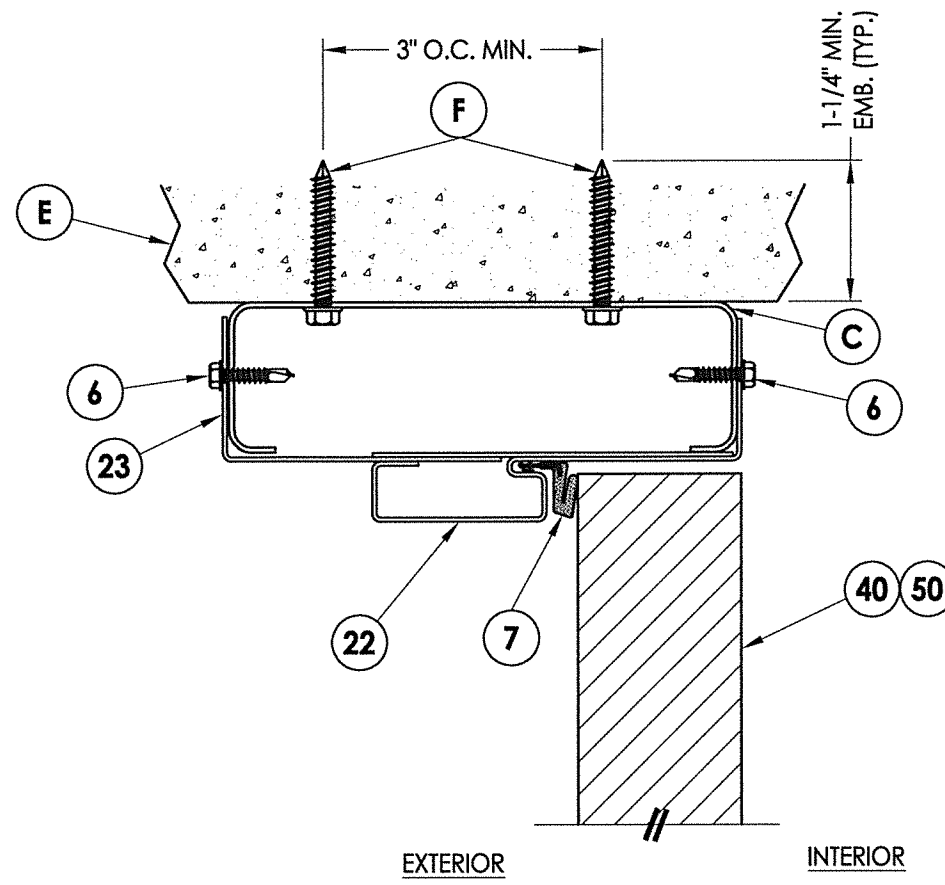
NO.	DATE	REVISIONS	BY
1	1/12/22	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 5/07/19
 SCALE: N.T.S.
 DWG. BY: RW
 CHK. BY: LFS
 DRAWING NO.: TX-4935
 SHEET 5 OF 9



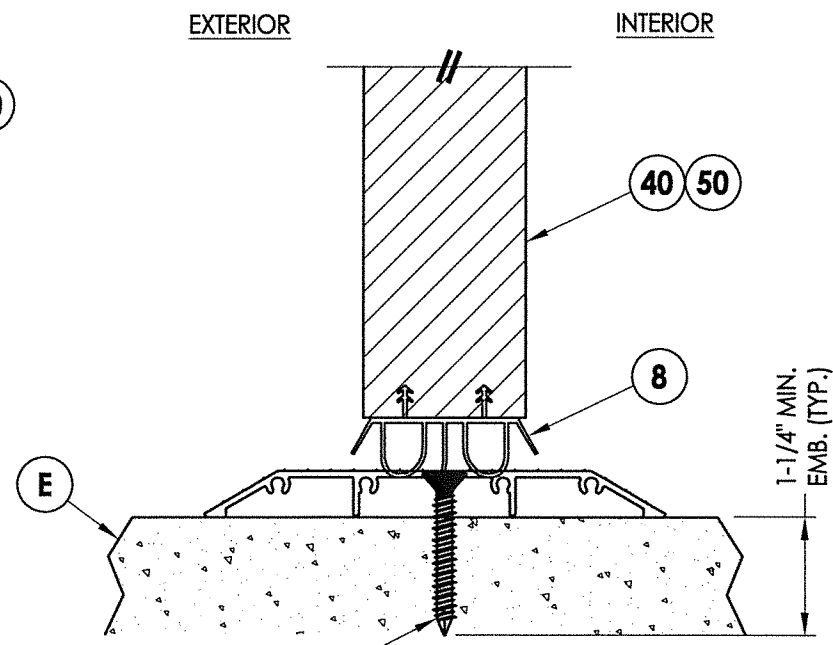
INTERIOR // EXTERIOR

1 VERTICAL CROSS SECTION
6 Outswing Shown



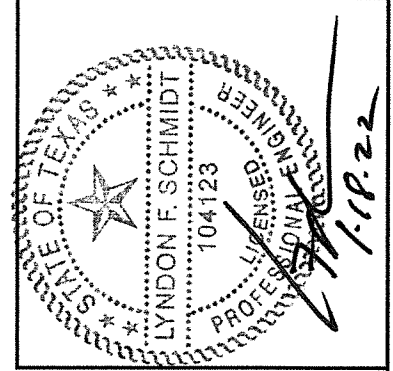
EXTERIOR // INTERIOR

2 VERTICAL CROSS SECTION
6 Inswing Shown



EXTERIOR // INTERIOR

3 VERTICAL CROSS SECTION
6 Inswing Shown



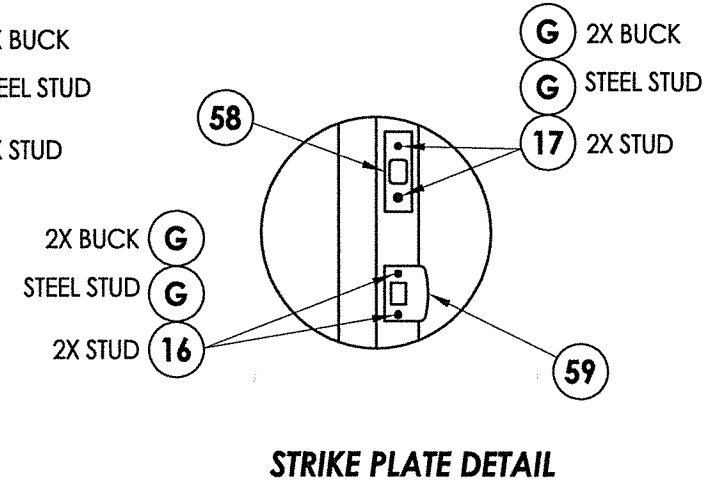
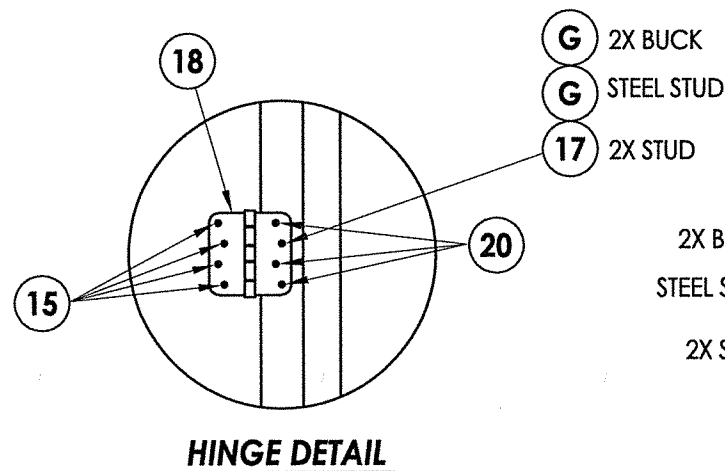
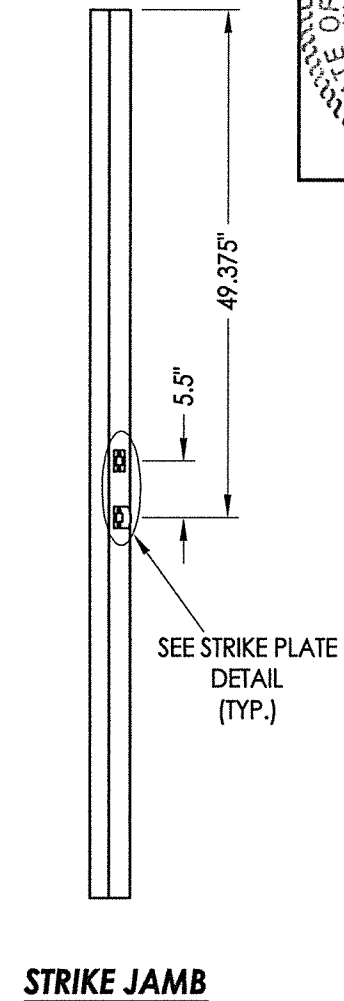
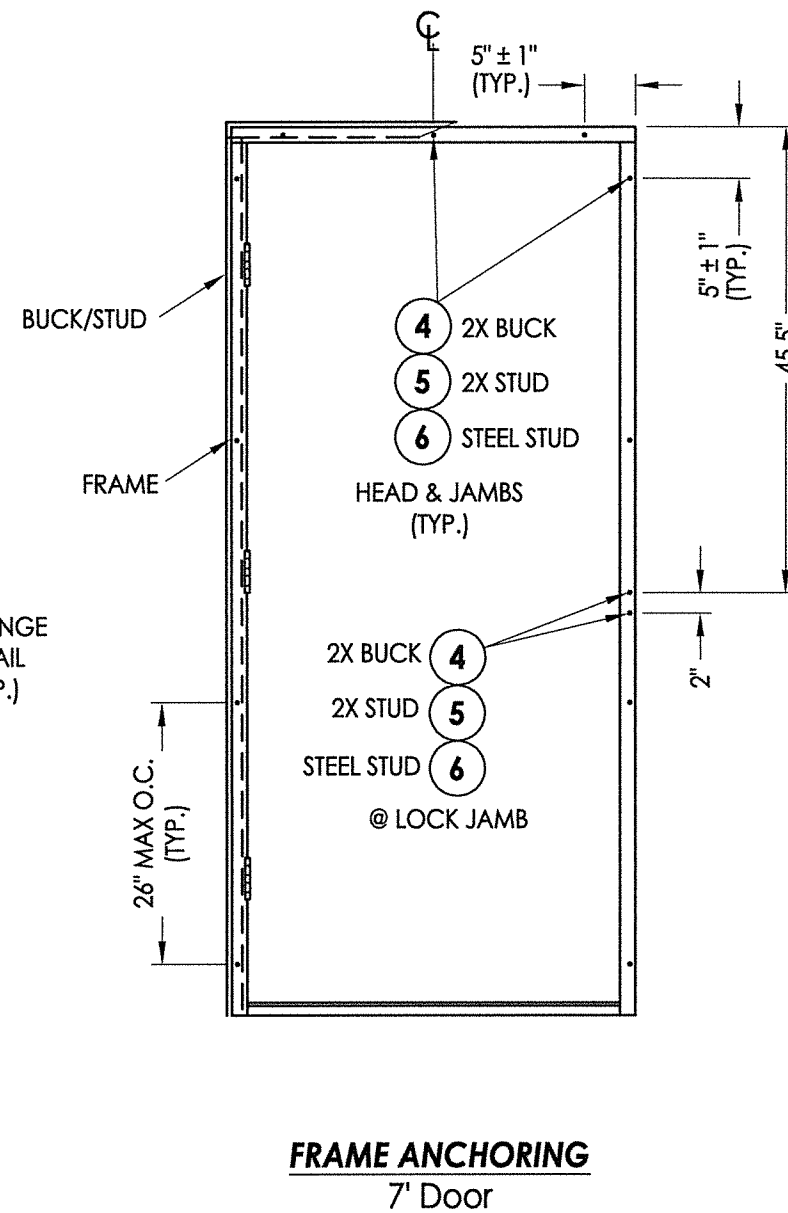
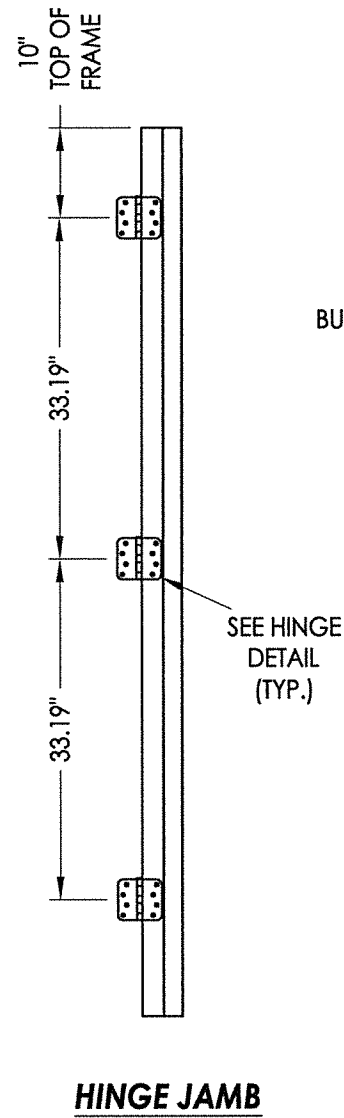
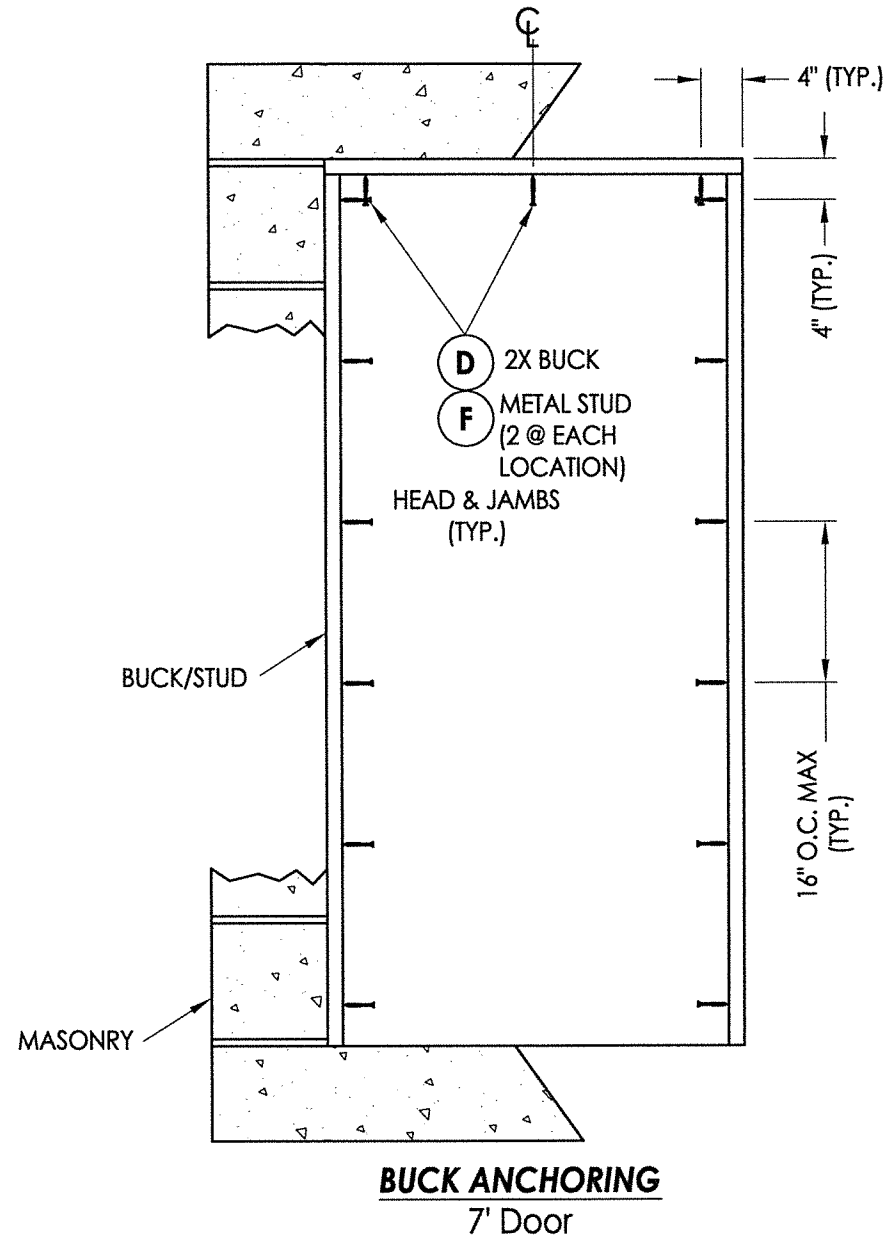
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	IDP STEEL FRAME (K2A-SERIES)
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

NO.	DATE	DESCRIPTION	BY
1	1/12/22	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE:	5/07/19
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-4935
SHEET	6 OF 9



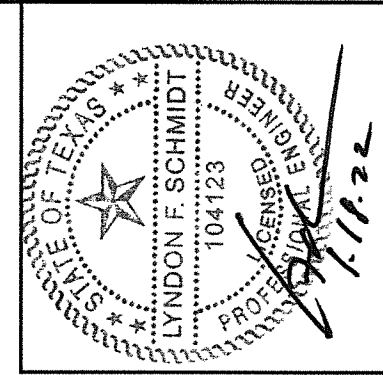
CONCRETE ANCHOR NOTES:

- 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 TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	2-1/2"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

- 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: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

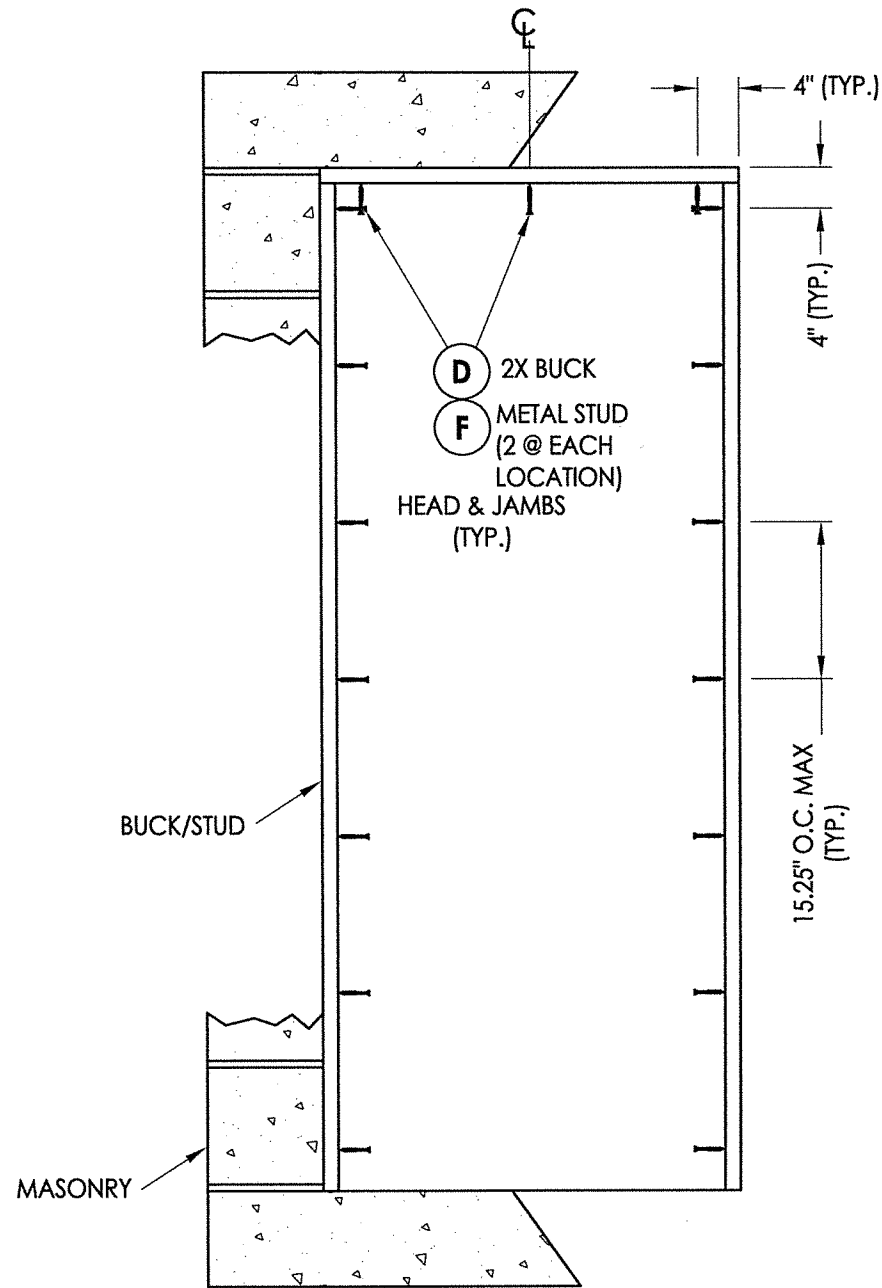
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: IDP STEEL FRAME (K2A-SERIES)

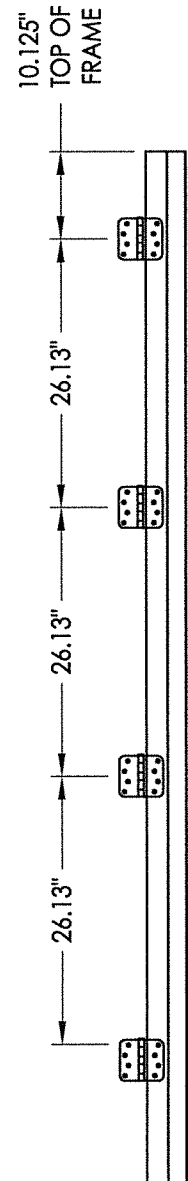
PART OR ASSEMBLY: FRAME AND BUCK ANCHORING (7'-0" DOOR)

NO.	DATE	DESCRIPTION	BY
1	1/12/22	UPDATE TO 2018 IBC/IRC CODE	LFS

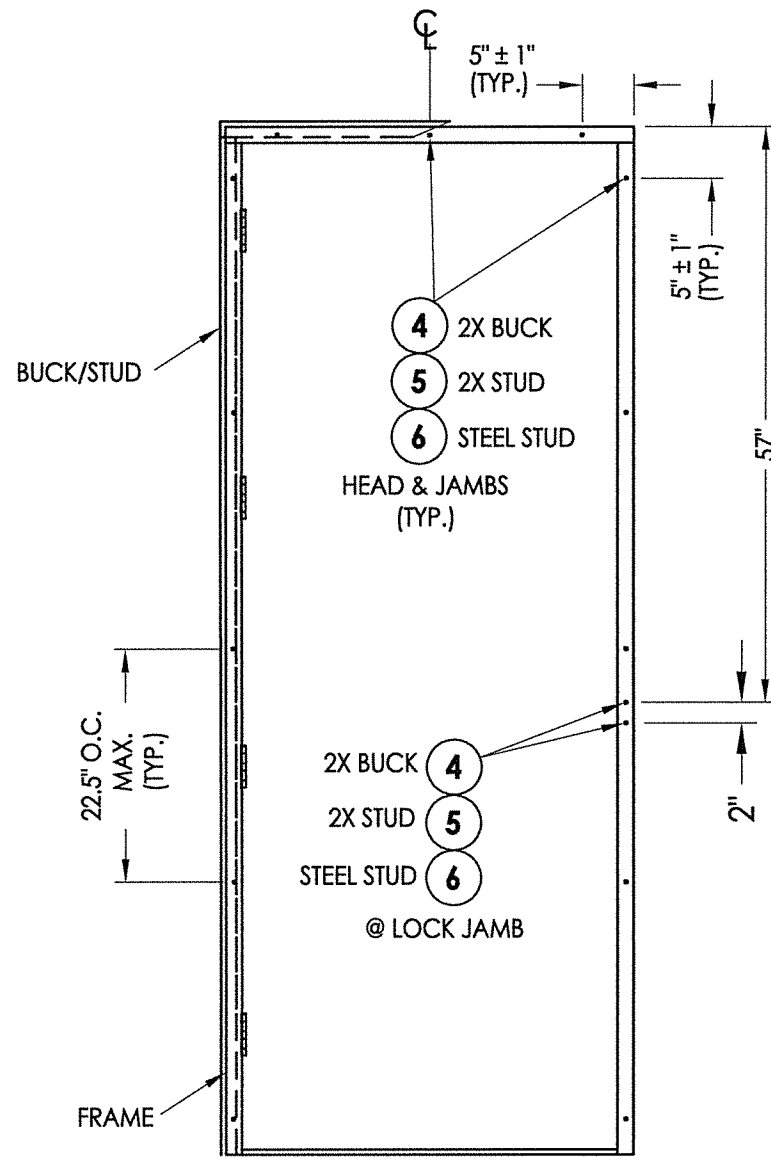
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SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-4935
SHEET 7 OF 9



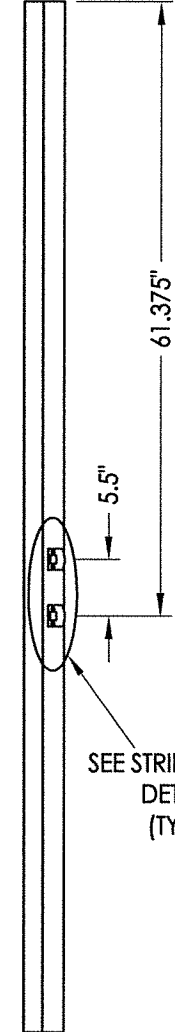
BUCK ANCHORING
8' Door



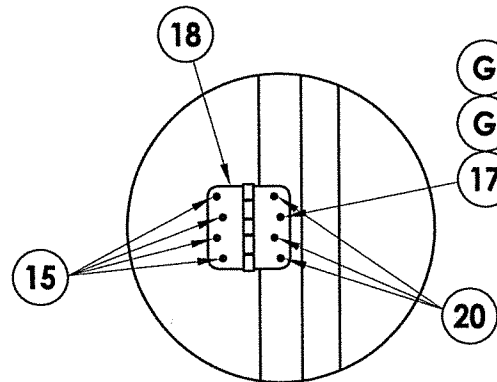
HINGE JAMB



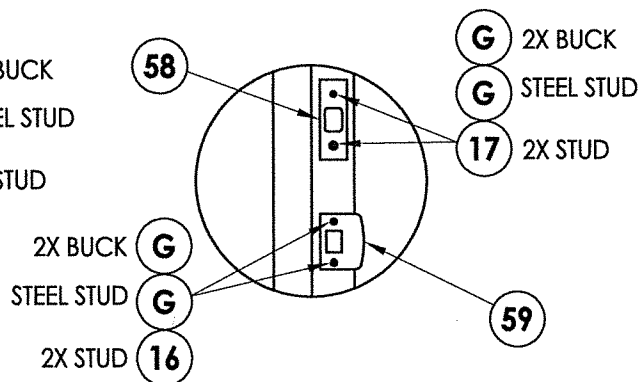
FRAME ANCHORING
8' Door



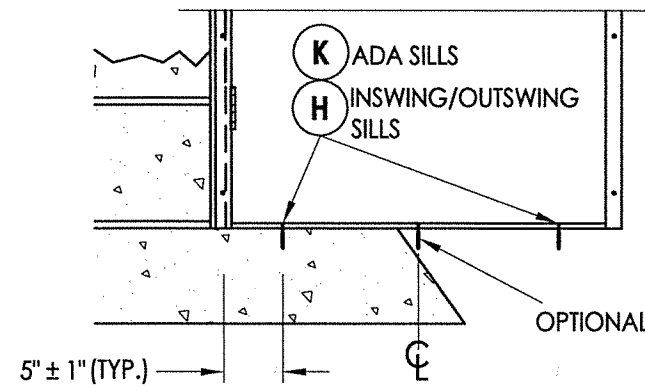
STRIKE JAMB



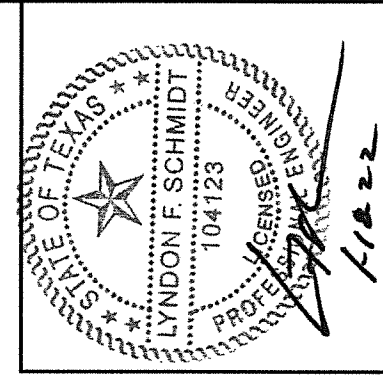
HINGE DETAIL



STRIKE PLATE DETAIL



OPTIONAL SILL ANCHORING
IN LIEU OF FRAME CORNER CONNECTIONS
(SEE CORNER DETAIL - SHEET 4)



Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

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

PRODUCT:	STEEL FRAME (K2A-SERIES)
PART OR ASSEMBLY:	FRAME AND BUCK ANCHORING (8'-0" DOOR)

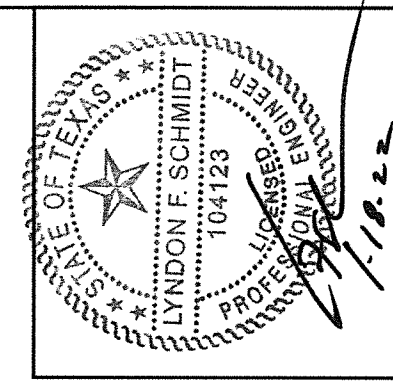
NO.	DATE	DESCRIPTION	BY
1	1/12/22	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE:	5/07/19
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	TX-4935
SHEET	8 OF 9

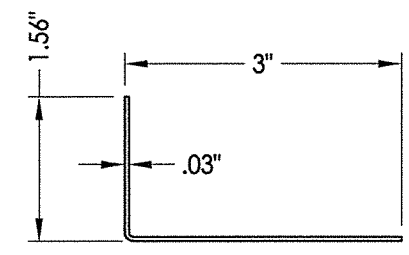
Z:\Clients\IDP PERMANENT\B - Texas Dept of Ins\DR-1063 - K2A SERIES w STEEL DR\C - Drawings\TX-4935.dwg

BILL OF MATERIALS

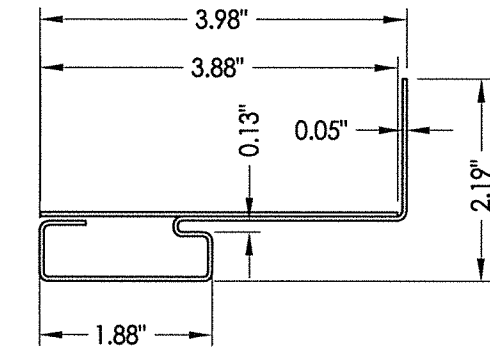
ITEM #	DESCRIPTION	MATERIAL
A	2X STUD FRAMING (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	METAL STUD (SSMA STUD 550S162-54, Fy = 33 ksi, Fu = 45 ksi)	STEEL
D	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 OR ASTM A653 STEEL	CONCRETE
F	3/16" X 1-3/4" HWH ITW CONCRETE SCREW	STEEL
G	3/16" X 3-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
H	1/4" X 2-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
K	1/4" X 1-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
4	#10 X 1-1/2" PPH SMS (1-1/4" MIN. EMBEDMENT)	STEEL
5	#10 X 2" PPH SMS (1-1/4" MIN. EMBEDMENT)	STEEL
6	#10 X 3/4" HWH SELF-DRILLING TEK SCREW (3 THREADS MUST PROTRUDE THRU STEEL)	STEEL
7	WEATHERSTRIP	-
8	DOOR SWEEP	PVC
15	10-24 X 5/8" PFH MS	STEEL
16	#8 X 2-1/2" PFH WOOD SCREW	STEEL
17	#10 X 2-1/2" PFH WOOD SCREW	STEEL
18	4" X 4" HINGE	STEEL
20	10-24 X 1/2" PFH MS	STEEL
22	IDP (K2A-SERIES) EXTERIOR FRAME (18 GA. - A60 GALVANNEALED STEEL)	STEEL
23	IDP (K2A-SERIES) INTERIOR FRAME (22 GA. - A60 GALVANNEALED STEEL)	STEEL
28	LATCH & DEADBOLT REINFORCEMENT	STEEL
29	HINGE REINFORCEMENT	STEEL
30	INSWING THRESHOLD	ALUM/COMP
31	ADA THRESHOLD	ALUM
32	OUTSWING THRESHOLD	ALUM/COMP
40	7' DOOR - SEE DOOR PANEL DETAILS	-
50	8' DOOR - SEE DOOR PANEL DETAILS	-
58	DEADBOLT STRIKE	STEEL
59	LATCH STRIKE	STEEL



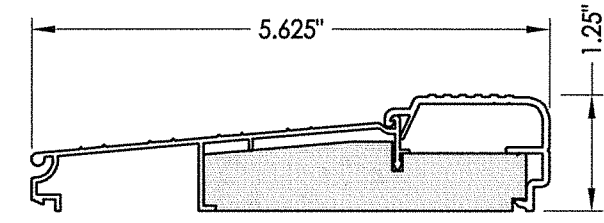
Documents Prepared By: Lyndon F. Schmidt, P.E.
 TEXAS P.E. #104123
RW BUILDING CONSULTANTS, INC.
 P.O. Box 230 Valrico FL 33595
 Phone No.: 813.659.9197
 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852



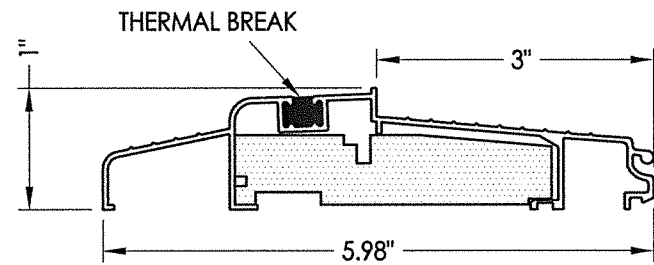
23 INTERIOR FRAME
K2A-SERIES



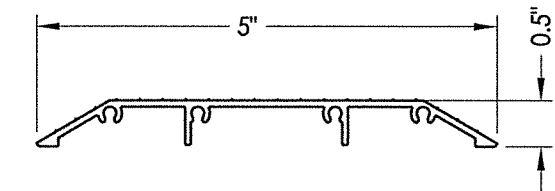
22 EXTERIOR FRAME
K2A-SERIES



30 INSWING THRESHOLD
AFCO A-280



32 OUTSWING THRESHOLD
AFCO A-111



31 ADA THRESHOLD
IDP

PRODUCT:	IDP STEEL FRAME (K2A-SERIES)	
PART OR ASSEMBLY:	BILL OF MATERIALS AND COMPONENTS	
NO.	DATE	DESCRIPTION
1	1/12/22	UPDATE TO 2018 IBC/IRC CODE
LFS	BY	REVISIONS
DATE: 5/07/19		
SCALE: N.T.S.		
DWG. BY: RW		
CHK. BY: LFS		
DRAWING NO.: TX-4935		
SHEET 9 OF 9		