

WINDSERT™

Operational Window Insert

Utilizing

A Fiberglass Door Panel w/ Sidelite(s)

OUTSWING

"NON-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.

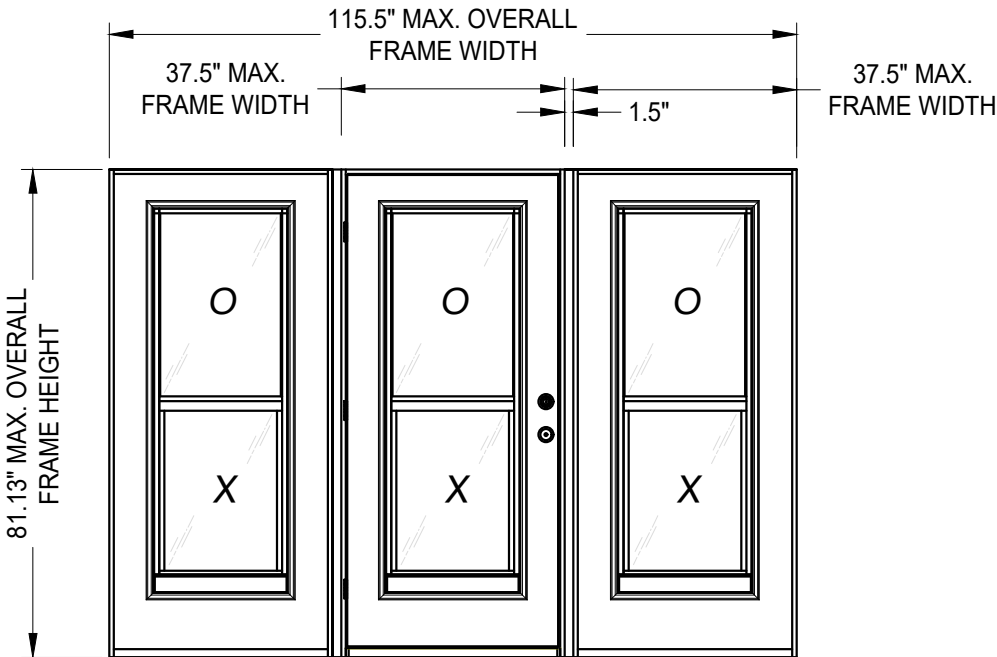
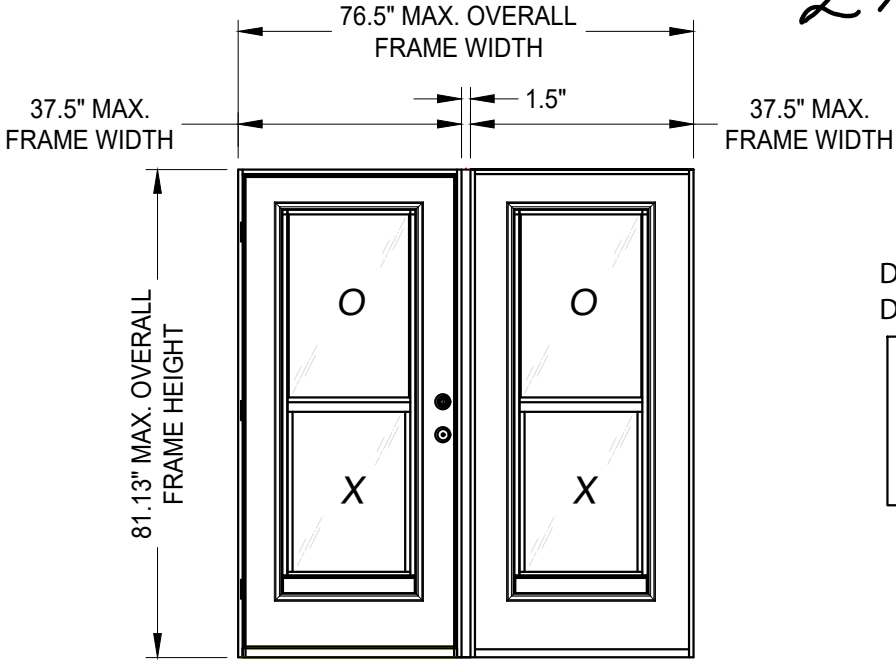
Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3.

When used in areas requiring wind borne debris protection, this product is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
4.

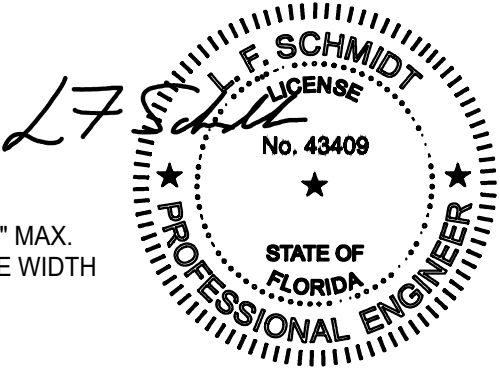
For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5.

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
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5	Elevations
6	Horizontal cross sections
7	Vertical cross sections
8	Vertical cross sections
9	Buck anchoring
10	Frame anchoring
11	Bill of materials and components



CONFIGURATION	MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
OX/XO	76.5" x 81.13"	20" x 29.13"	+50.0	-55.0
OXO	115.5" x 81.13"	20" x 29.13"	+50.0	-55.0



Digitally signed by Lyndon F Schmidt
Date: 2023.08.09 12:35:22 -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

DLP
WINDSERT

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

6

8/09/23

UPDATE TO 8TH ED. (2023)

FBC

LFS

5

8/31/20

UPDATE TO 7TH ED. (2020)

FBC

LFS

4

8/16/17

UPDATE TO 6TH ED. (2017)

FBC

JK

3

9/14/15

REVISED WINDSERT COMPONENTS

JK

2

3/28/15

UPDATE TO 5TH ED. (2014)

FBC

JK

1

9/28/11

UPDATED TO 2010 FBC

LFS

NO.

DATE

BY

REVISIONS

DATE: 8/29/11

SCALE: N.T.S.

DWG. BY: JK

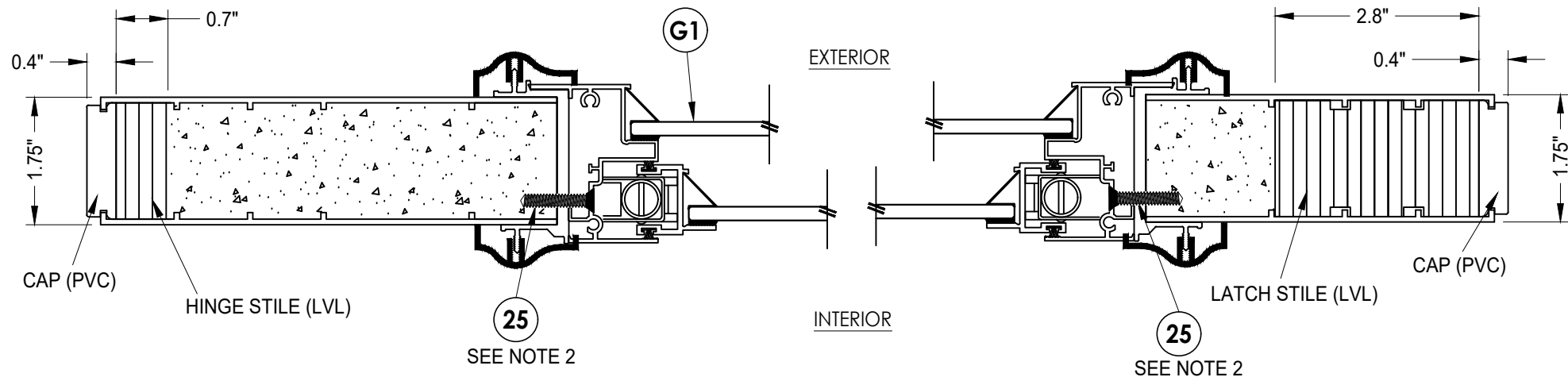
CHK. BY: LFS

DRAWING NO.: FL-14803.2

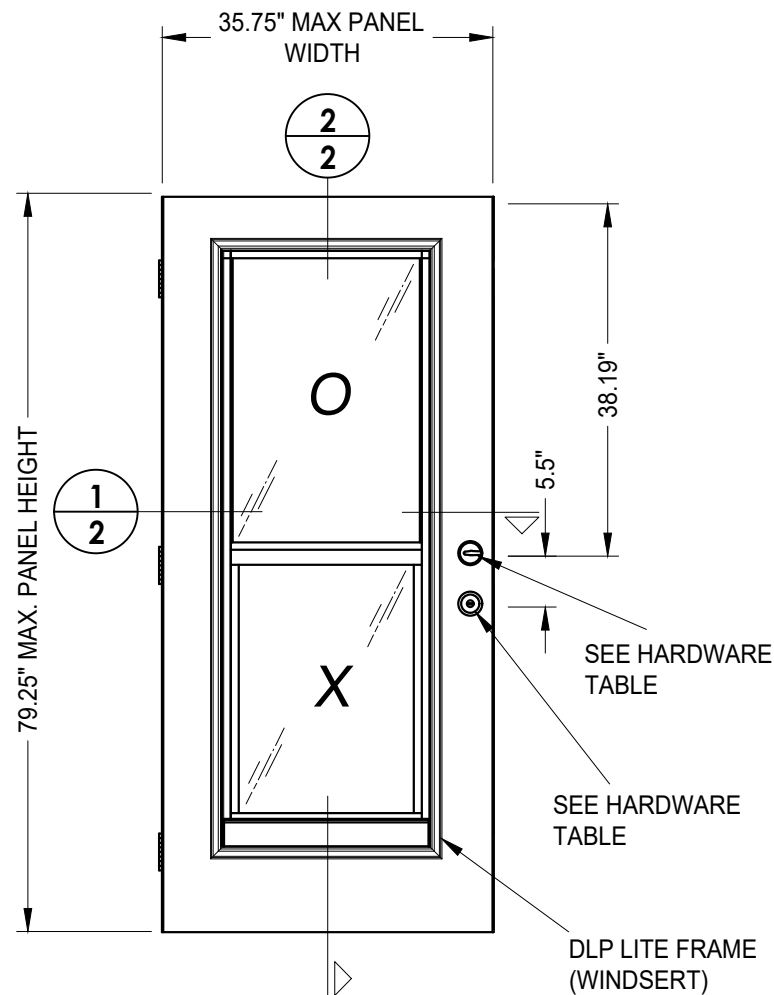
SHEET 1 OF 11

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1
2 HORIZONTAL CROSS SECTION

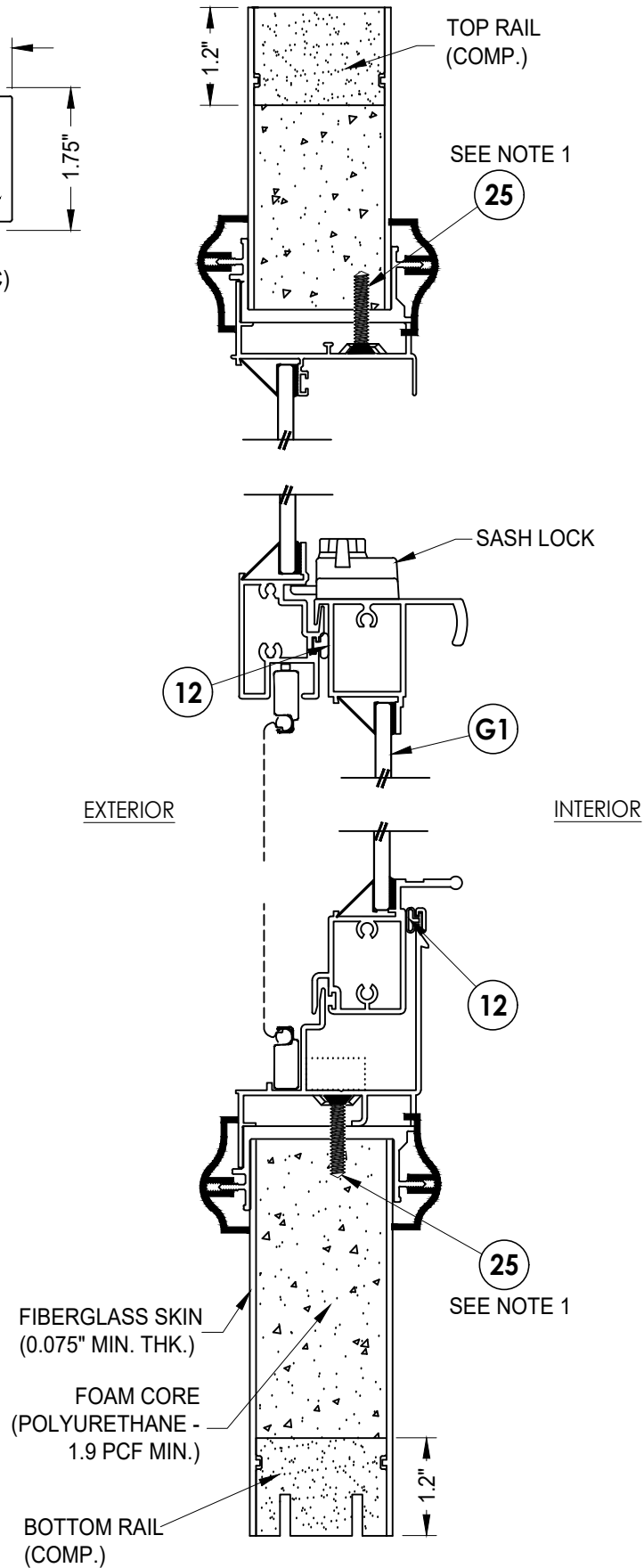


40 DOOR PANEL
Plastpro

HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	Knob:	Kwikset Series
	Deadbolt:	Kwikset Series (660)
Yale	Lever:	YH Collection
	Deadbolt:	New Traditions (800 Series)
Schlage	Knob:	F-Series
	Deadbolt:	B60 / 62
Yale	Knob:	YH Collection
	Deadbolt:	YH 83

NOTES:

- SMS Screw spacing at head and sill:
5" from each end & one at centerline (3 total).
- SMS Screw spacing at jambs:
5" from each end & spaced @ 8 - 11" o.c. (7 total).



2
2 VERTICAL CROSS SECTION

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

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

PRODUCT:	DLP WINDSERT
	PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	REVISIONS					
		LFS	FBC	FBC	JK	JK	BY
6	8/09/23	UPDATE TO 8TH ED. (2023)	FBC				
5	8/31/20	UPDATE TO 7TH ED. (2020)	FBC				
4	8/16/17	UPDATE TO 6TH ED. (2017)	FBC				
3	9/14/15	REVISED WINDSERT COMPONENTS					
2	3/18/15	UPDATE TO 5TH ED. (2014)	FBC				
1	9/28/11	UPDATED TO 2010 FBC					

DATE: 8/29/11

SCALE: N.T.S.

DWG. BY: JK

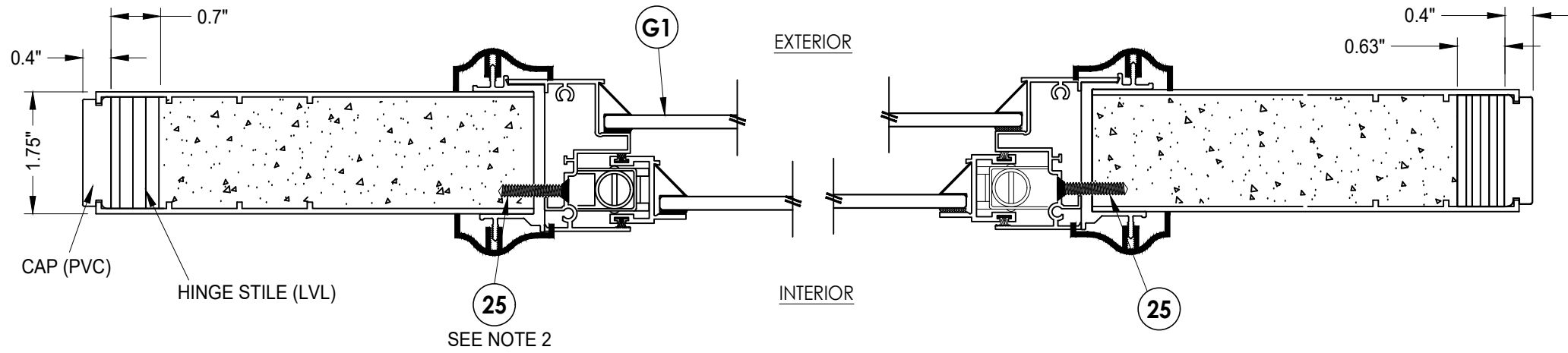
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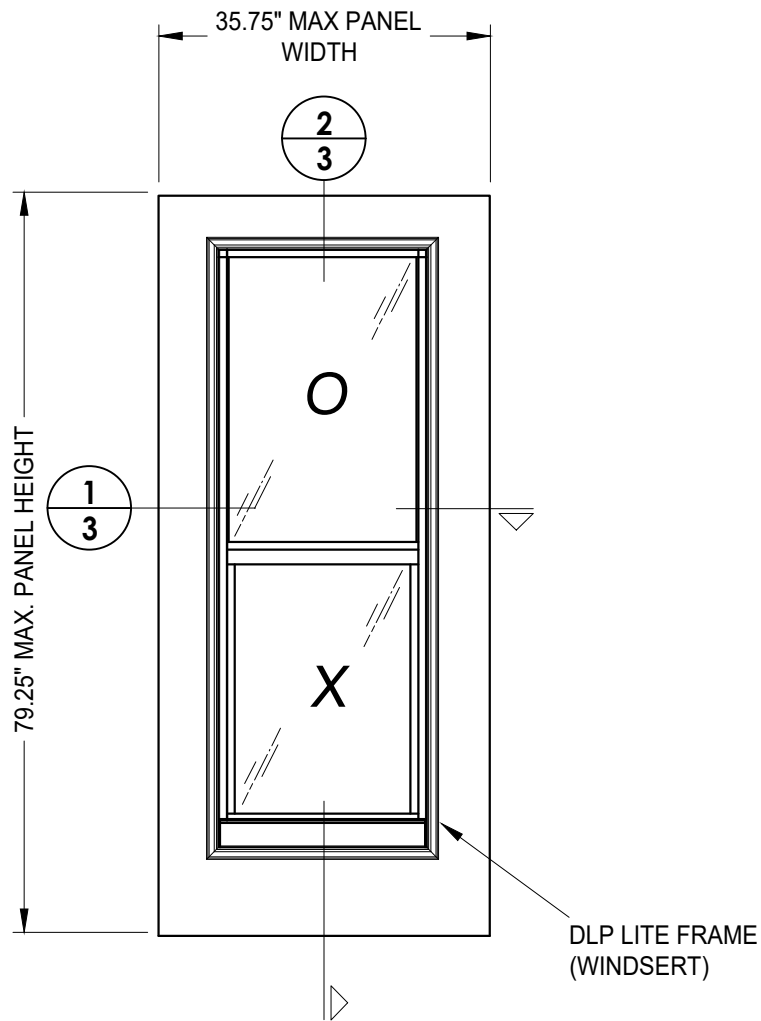
FL-14803.2

SHEET 2 OF 11

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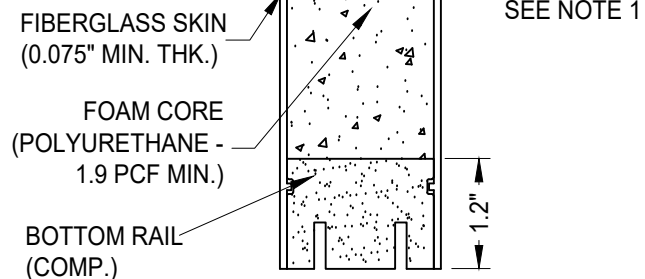
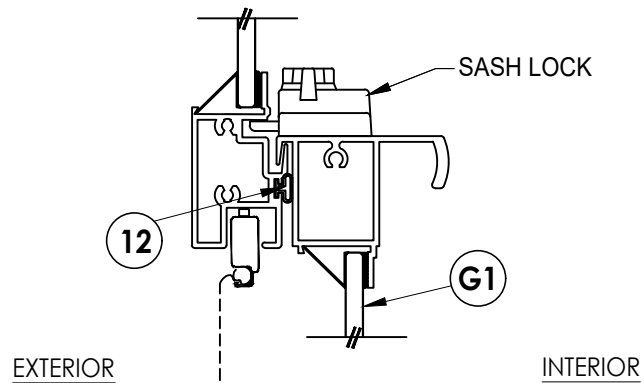
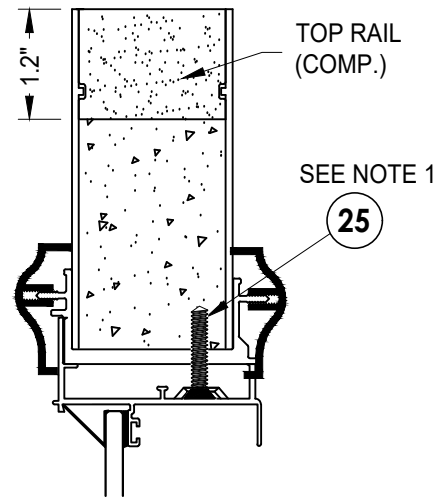


1
3 HORIZONTAL CROSS SECTION



50 SIDELITE PANEL
Plastpro

- NOTES:
- SMS Screw spacing at head and sill:
5" from each end & one at centerline (3 total).
 - SMS Screw spacing at jambs:
5" from each end & spaced @ 8 - 11" o.c. (7 total).



2
3 VERTICAL CROSS SECTION

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

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

PRODUCT:
DLP
WINDSERT
PART OR ASSEMBLY:
SIDELITE PANEL DETAILS

NO.	DATE	REVISIONS
6	8/09/23	UPDATE TO 8TH ED. (2023) FBC
5	8/31/20	UPDATE TO 7TH ED. (2020) FBC
4	8/16/17	UPDATE TO 6TH ED. (2017) FBC
3	9/14/15	REVISED WINDSERT COMPONENTS
2	3/18/15	UPDATE TO 5TH ED. (2014) FBC
1	9/28/11	UPDATED TO 2010 FBC

DATE: 8/29/11

SCALE: N.T.S.

DWG. BY: JK

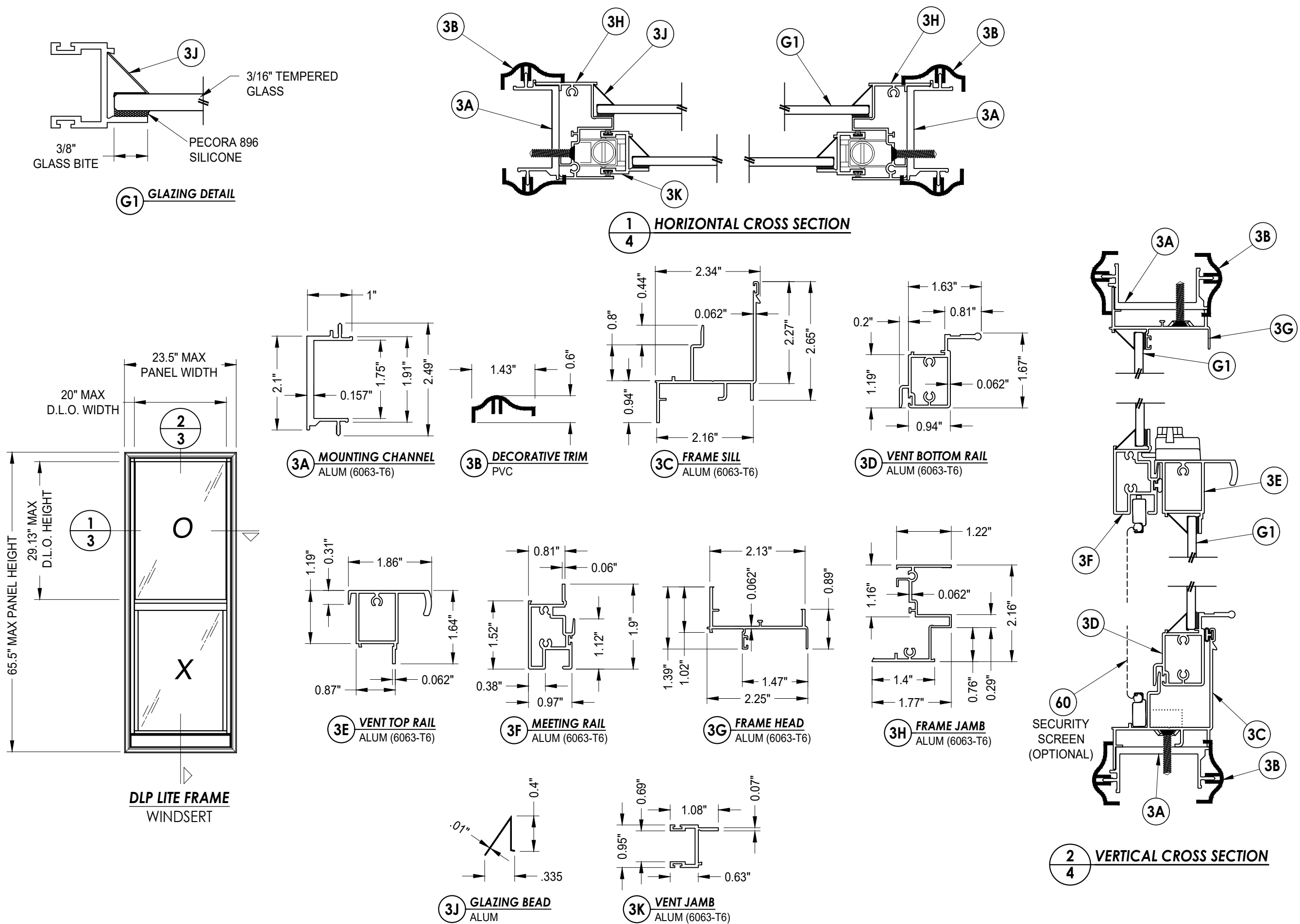
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DRAWING NO.:

FL-14803.2

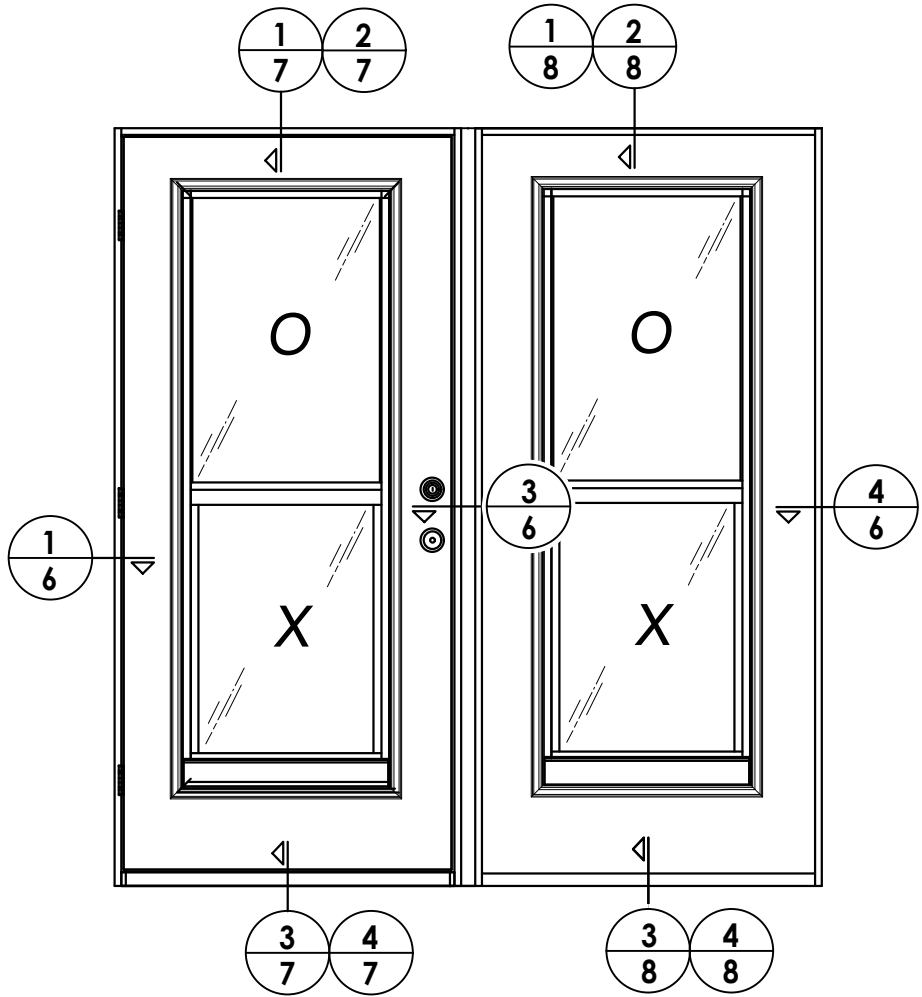
SHEET 3 OF 11

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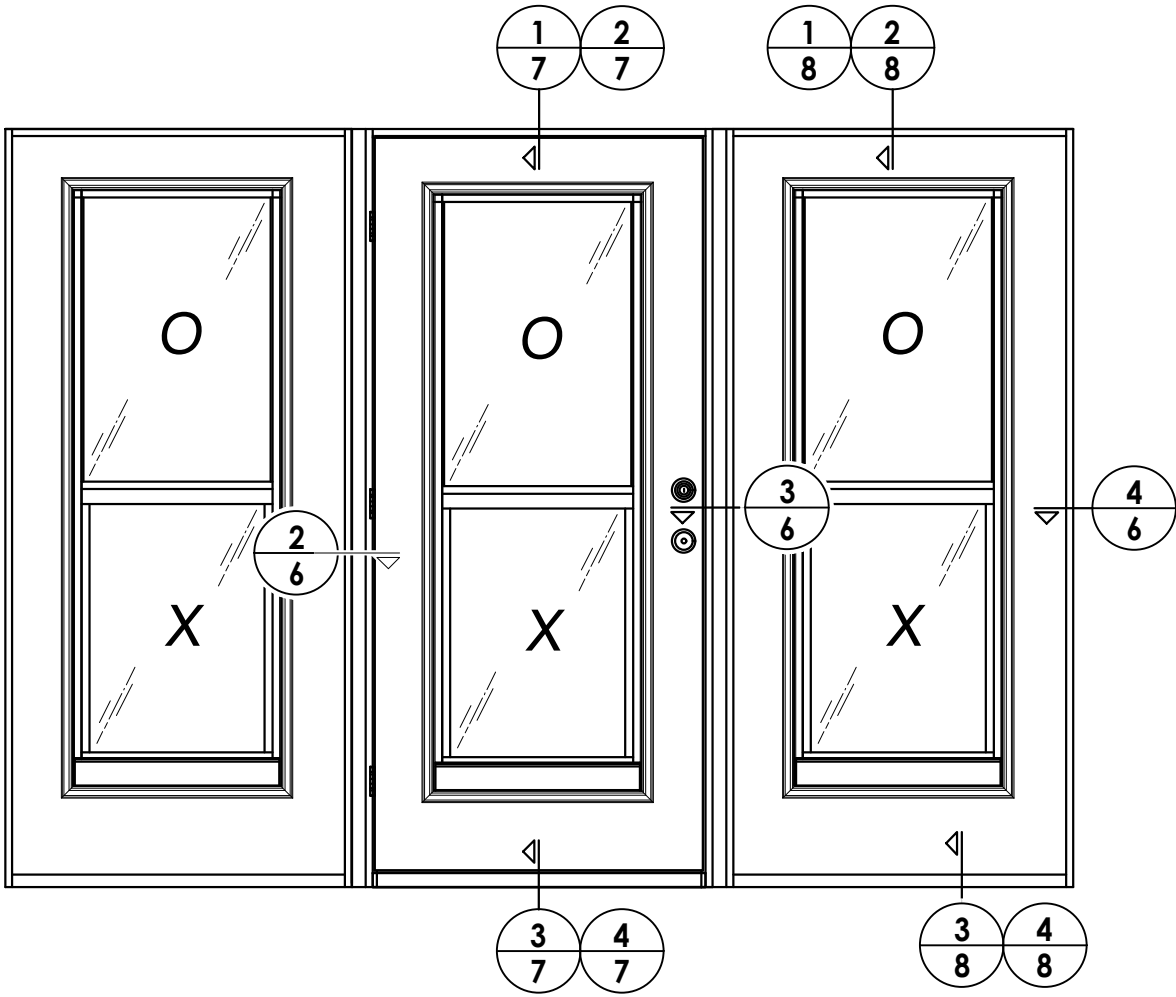


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: DLP WINDSERT		PART OR ASSEMBLY: LITE FRAME DETAILS AND GLAZING DETAILS	
6	8/09/23	UPDATE TO 8TH ED. (2023) FBC	LFS
5	8/31/20	UPDATE TO 7TH ED. (2020) FBC	LFS
4	8/16/17	UPDATE TO 6TH ED. (2017) FBC	JK
3	9/14/15	REVISED WINDSERT COMPONENTS	JK
2	3/18/15	UPDATE TO 5TH ED. (2014) FBC	JK
1	9/28/11	UPDATED TO 2010 FBC	LFS
NO.	DATE		BY
			REVISIONS
DATE: 8/29/11			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-14803.2			
SHEET 4 OF 11			

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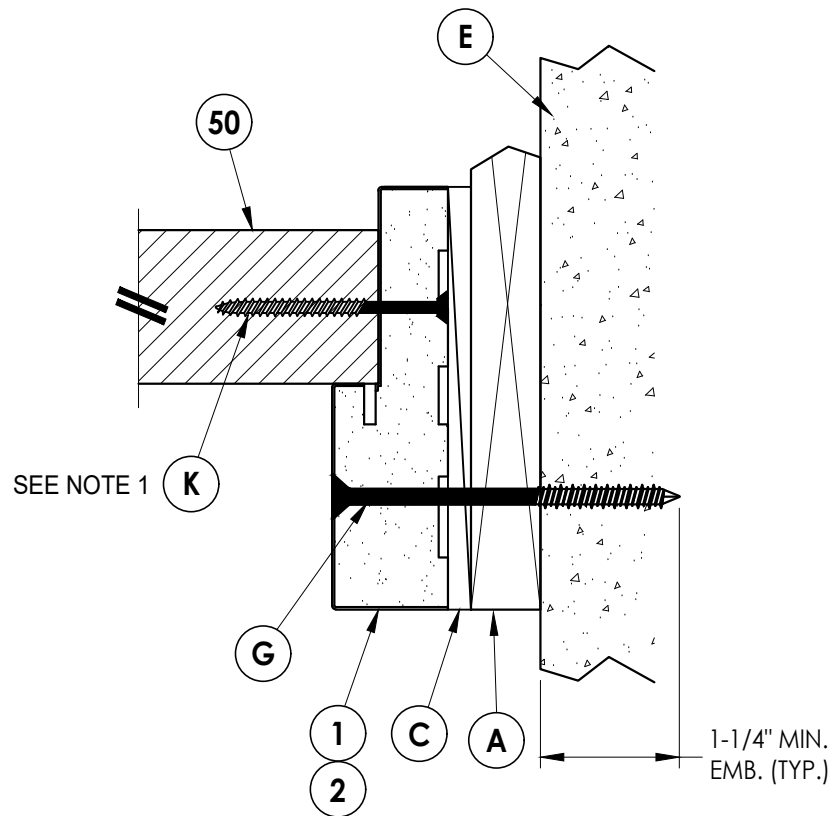
ELEVATION (XO - OX)



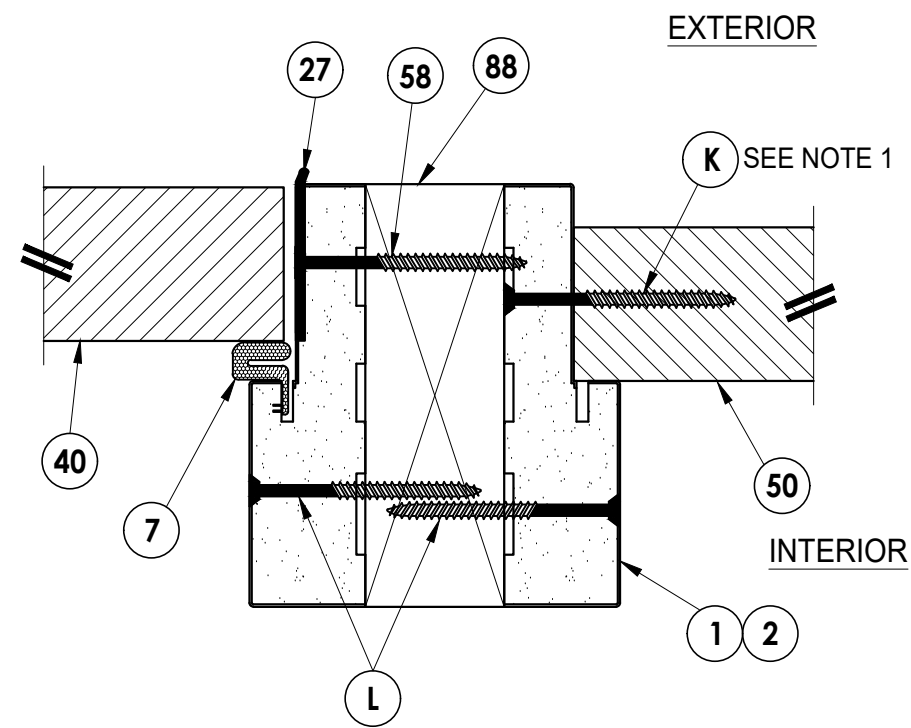
ELEVATION (OXO)

DATE: 8/29/11		8/09/23		UPDATE TO 8TH ED. (2023)		FBC	LFS	PRODUCT: DLP WINDSERT PART OR ASSEMBLY: ELEVATIONS	Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		
SCALE: N.T.S.		5		8/31/20		UPDATE TO 7TH ED. (2020)				FBC	LFS
DWG. BY: JK		4		8/16/17		UPDATE TO 6TH ED. (2017)				FBC	JK
CHK. BY: LFS		3		9/14/15		REVISED WINDSERT COMPONENTS		JK	RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		
DRAWING NO.: FL-14803.2		2		3/18/15		UPDATE TO 5TH ED. (2014)		FBC		JK	
SHEET 5 OF 11		1		9/28/11		UPDATED TO 2010 FBC		LFS		BY	
		NO.		DATE							

INTERIOR



INTERIOR

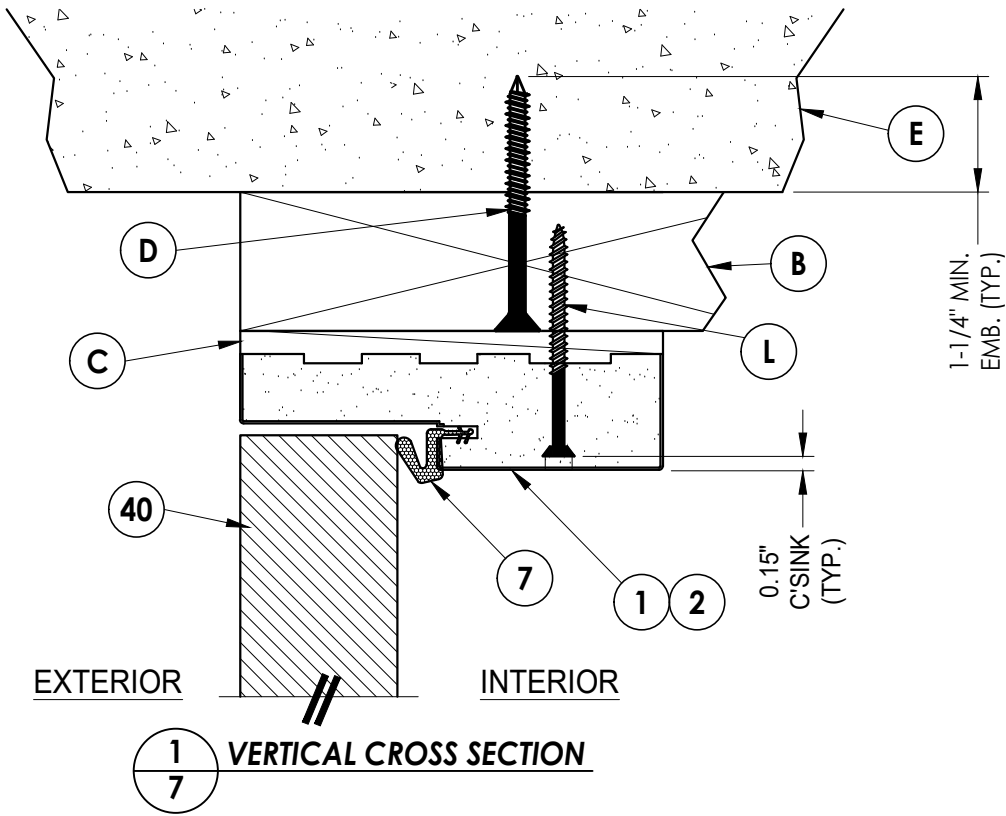


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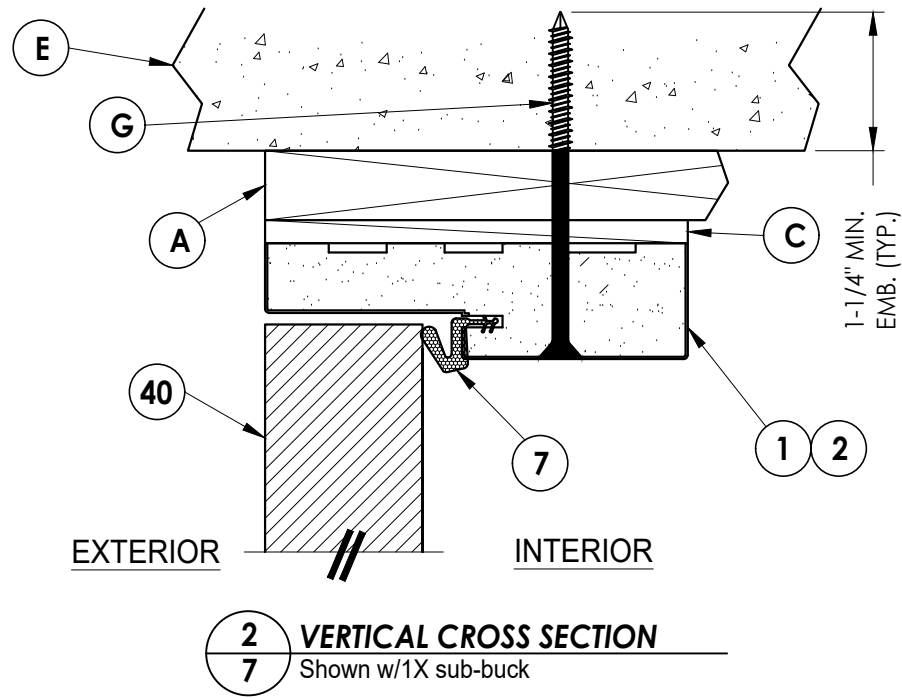
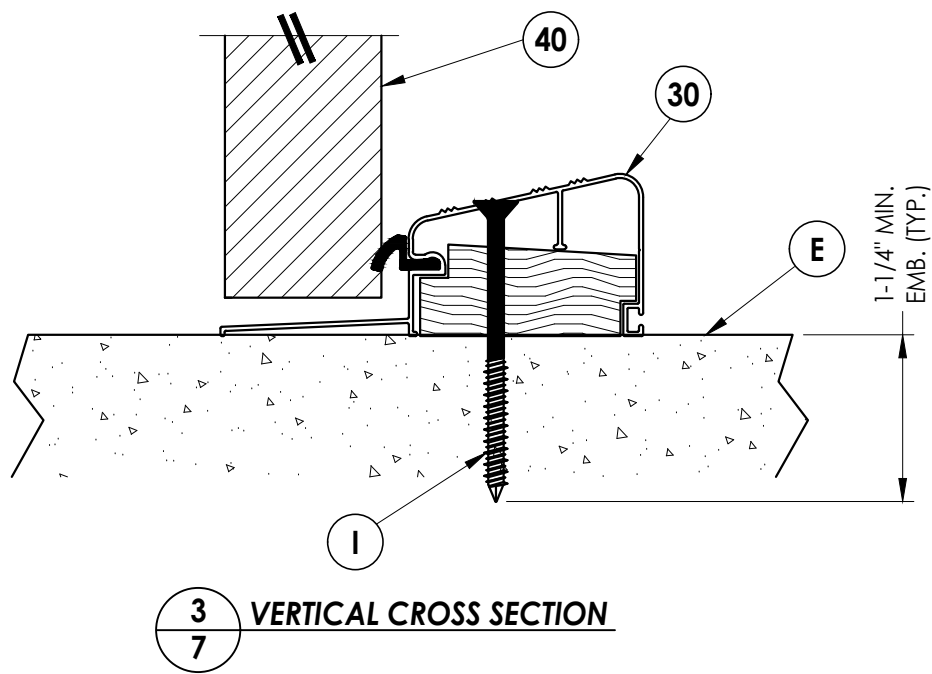
1. Spacing for item K: 6" from ends and 7 more equally spaced along sidelite (9 total).

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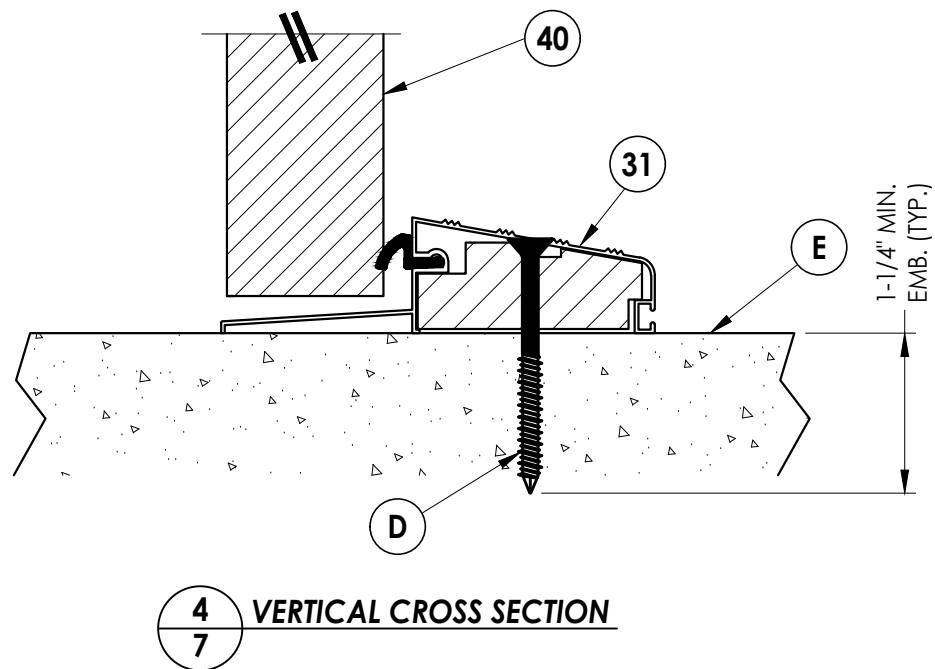
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EXTERIOR INTERIOR



EXTERIOR INTERIOR

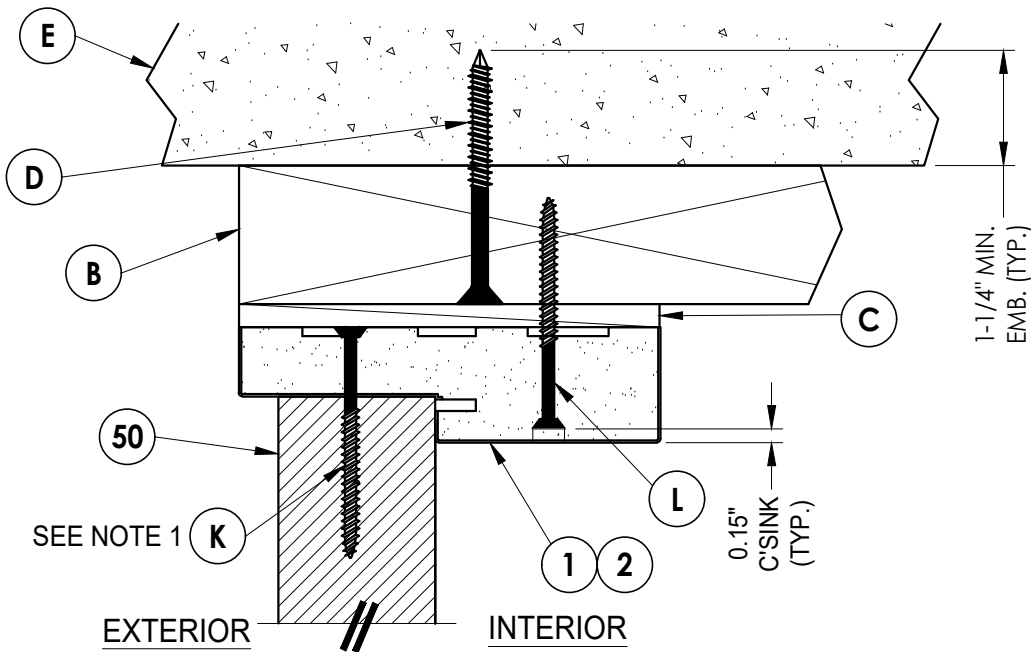


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409						BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813					
PRODUCT:						PART OR ASSEMBLY:					
DLP WINDSERT						VERTICAL CROSS SECTIONS					
6	8/09/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	BY	REVISIONS					
5	8/31/20	UPDATE TO 7TH ED. (2020)	FBC	LFS							
4	8/16/17	UPDATE TO 6TH ED. (2017)	FBC	JK							
3	9/14/15	REVISED WINDSERT COMPONENTS		JK							
2	3/28/15	UPDATE TO 5TH ED. (2014)	FBC	JK							
1	9/28/11	UPDATED TO 2010 FBC		LFS		NO.	DATE				
DATE: 8/29/11											
SCALE: N.T.S.											
DWG. BY: JK											
CHK. BY: LFS											
DRAWING NO.: FL-14803.2											
SHEET 7 OF 11											

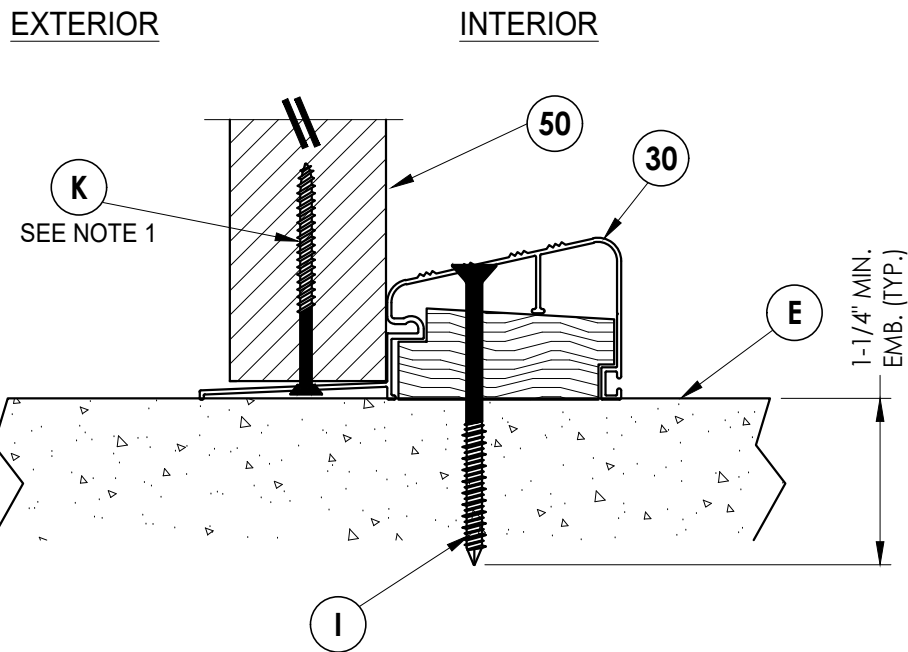
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NOTE

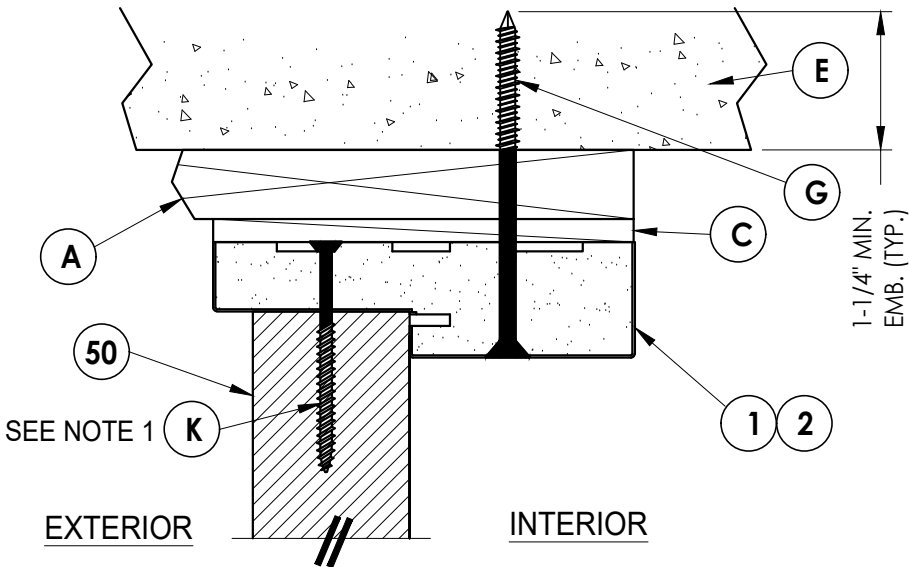
1. Spacing for item K:
6" from each end
and at centerline.



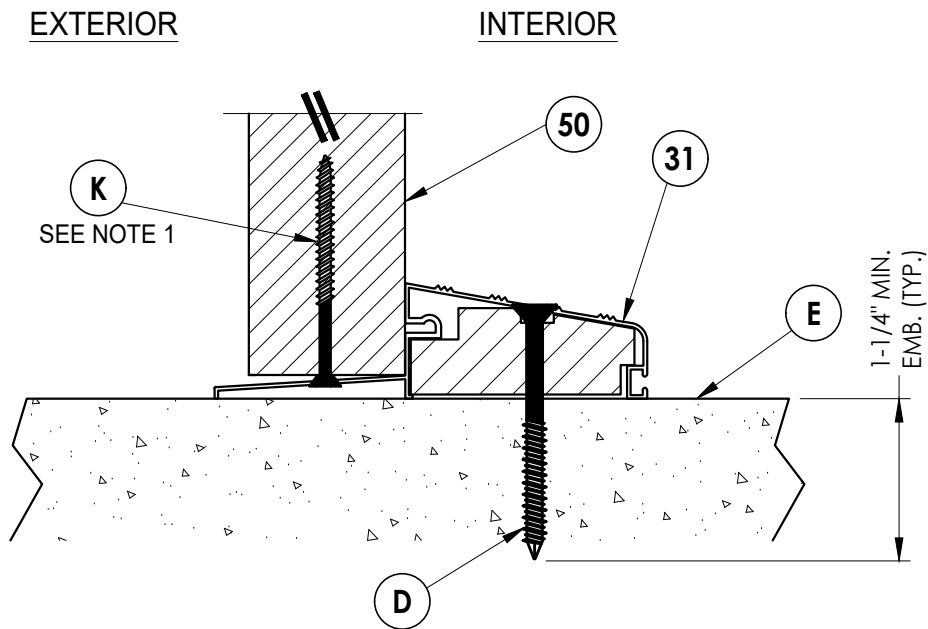
1
8 VERTICAL CROSS SECTION



3
8 VERTICAL CROSS SECTION



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



4
8 VERTICAL CROSS SECTION

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

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

PRODUCT:

DLP
WINDSERT

PART OR ASSEMBLY:

VERTICAL
CROSS SECTIONS

	LFS	FBC	REVISIONS
6	8/09/23	UPDATE TO 8TH ED. (2023)	
5	8/31/20	UPDATE TO 7TH ED. (2020)	
4	8/16/17	UPDATE TO 6TH ED. (2017)	
3	9/14/15	REVISED WINDSERT COMPONENTS	
2	3/28/15	UPDATE TO 5TH ED. (2014)	
1	9/28/11	UPDATED TO 2010 FBC	
NO.	DATE		

DATE: 8/29/11

SCALE: N.T.S.

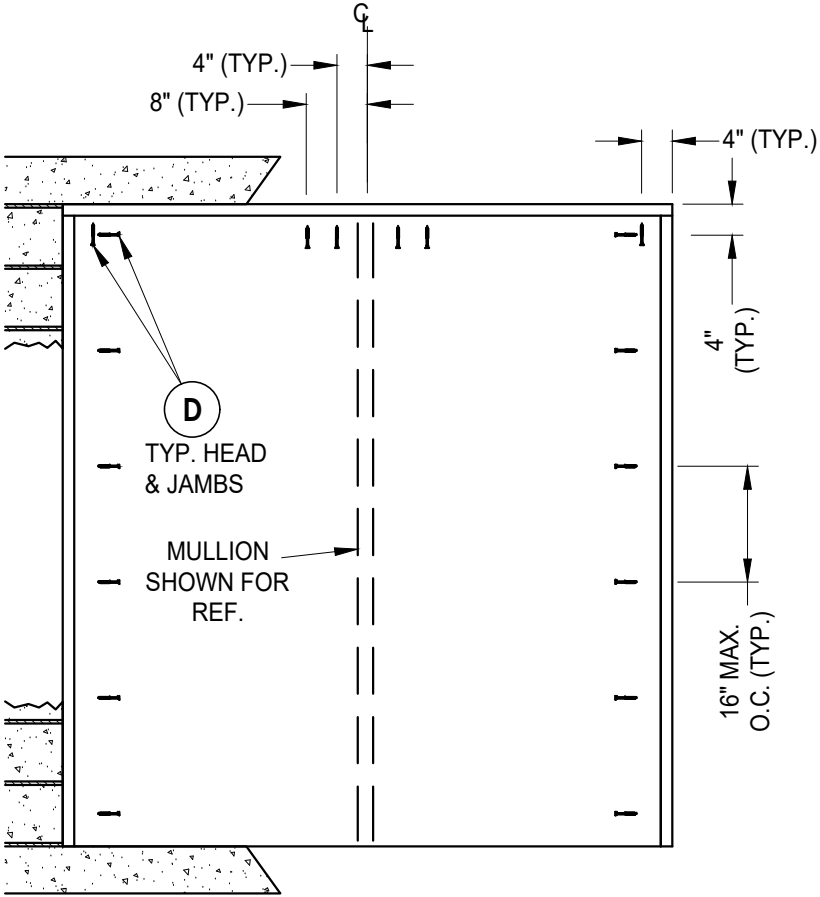
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CHK. BY: LFS

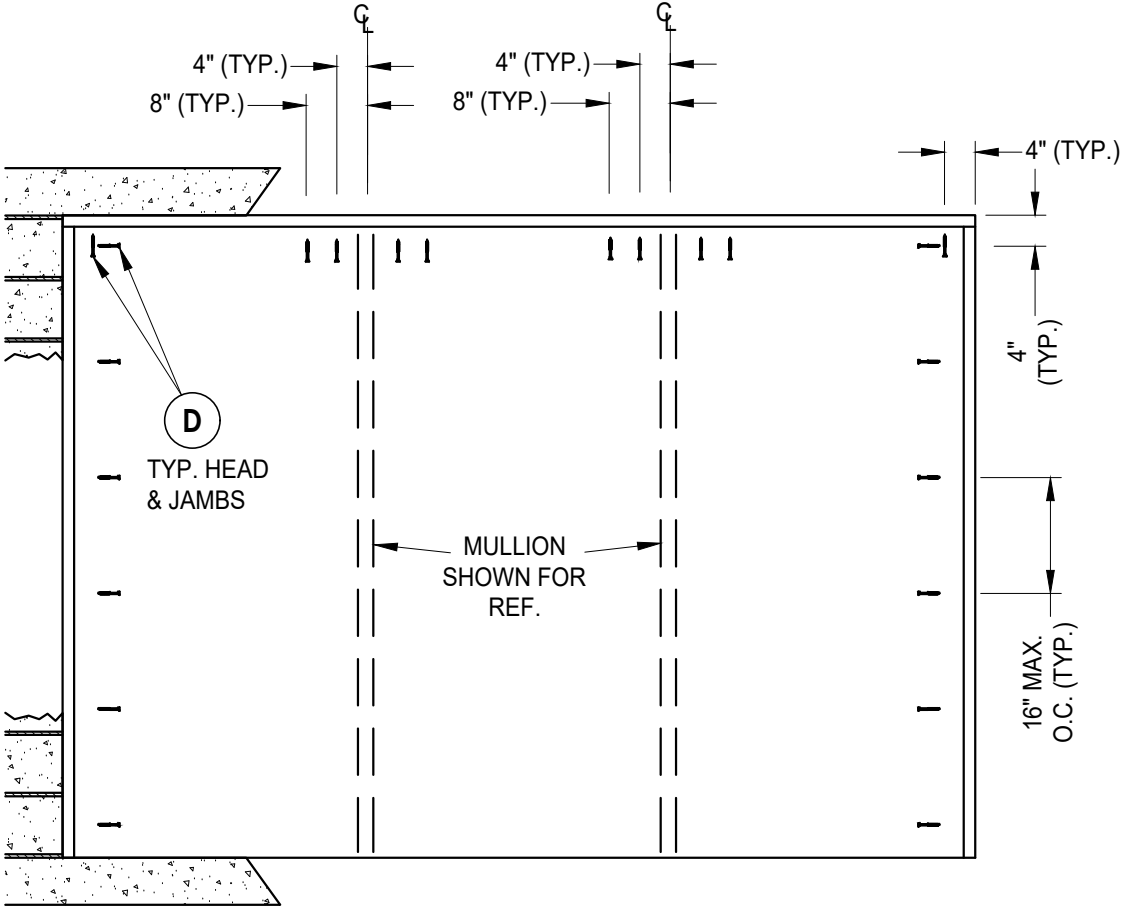
DRAWING NO.:
FL-14803.2

SHEET 8 OF 11

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BUCK ANCHORING
OX



BUCK ANCHORING
OXO

CONCRETE ANCHOR NOTES:

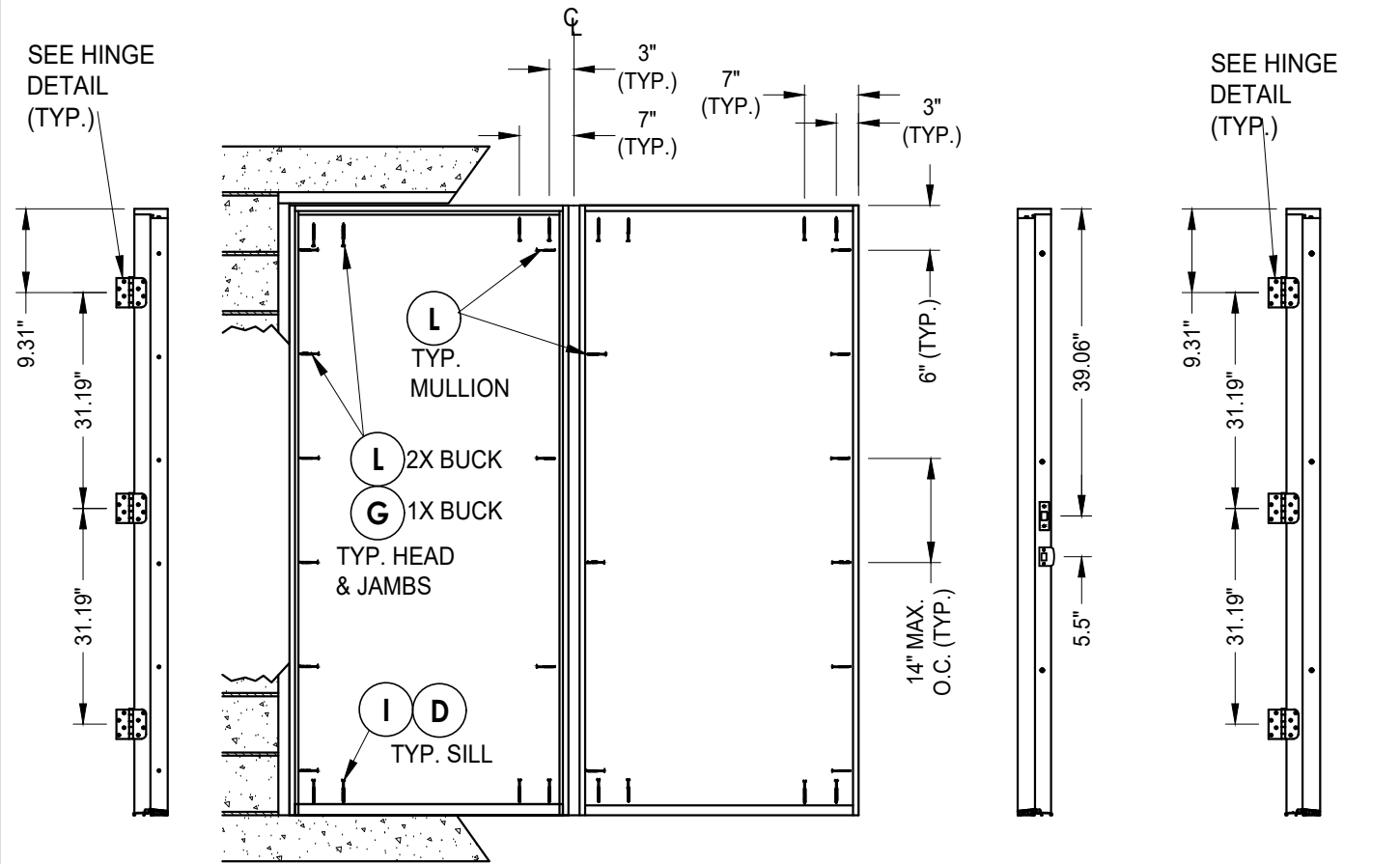
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON 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"	1"	4"

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. No. 43409		R ^W BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: DLP WINDSERT		PART OR ASSEMBLY: BUCK ANCHORING	
6	8/09/23	UPDATE TO 8TH ED. (2023) FBC	LFS
5	8/31/20	UPDATE TO 7TH ED. (2020) FBC	LFS
4	8/16/17	UPDATE TO 6TH ED. (2017) FBC	JK
3	9/14/15	REVISED WINDSERT COMPONENTS	JK
2	3/28/15	UPDATE TO 5TH ED. (2014) FBC	JK
1	9/28/11	UPDATED TO 2010 FBC	LFS
NO.	DATE		BY
REVISIONS			
DATE: 8/29/11			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-14803.2			
SHEET 9 OF 11			

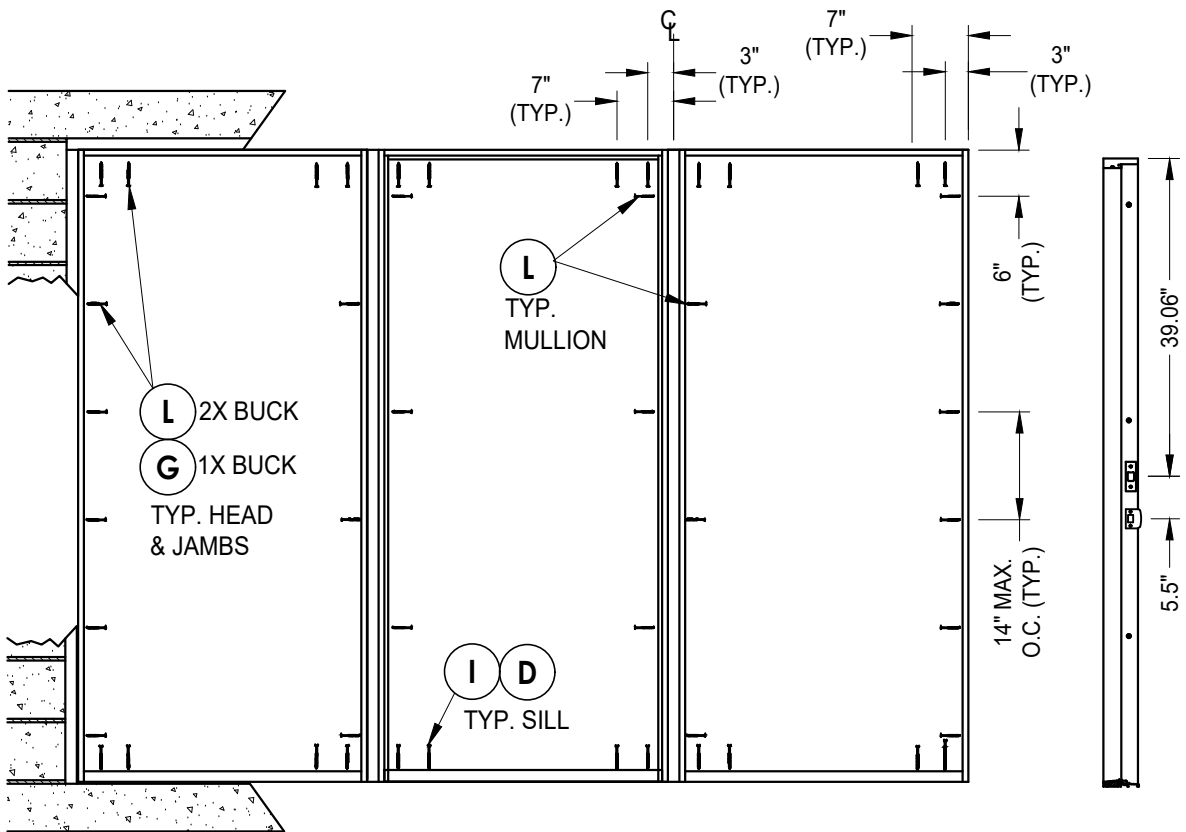


HINGE JAMB

FRAME ANCHORING

STRIKE MULLION

HINGE MULLION



FRAME ANCHORING

STRIKE MULLION

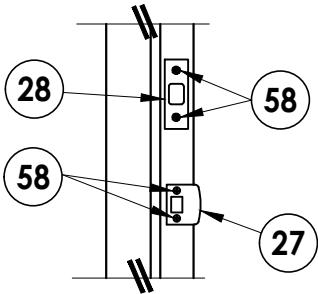
CONCRETE ANCHOR NOTES:

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:

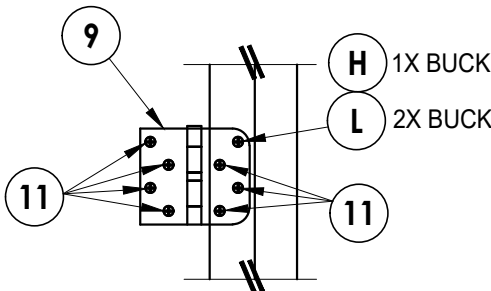
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

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.



LATCH AND DEADBOLT Details



HINGE DETAIL

Outswing

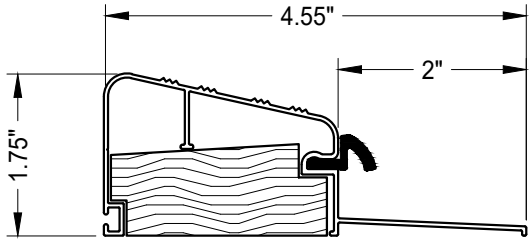
DATE:	8/29/11			
SCALE:	N.T.S.			
DWG. BY:	JK			
CHK. BY:	LFS			
DRAWING NO.:	FL-14803.2			
SHEET	10	OF	11	

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

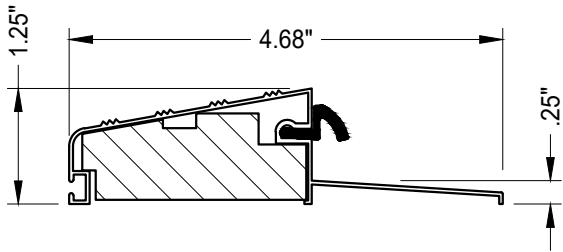
R^W
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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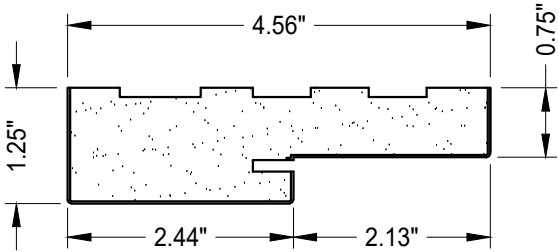
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
G	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
H	3/16" x 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
I	1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
L	#8 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)	STEEL
K	#9 X 2-1/2" PFH WOOD SCREW	STEEL
1	POLY FIBER JAMB	COMP. / VINYL
2	FINGER JOINTED PINE FRAME	WOOD
7	WEATHERSTRIP	FOAM
9	4" X 4" BUTT HINGE	STEEL
11	#9 X 3/4" PFH WOOD SCREW	STEEL
12	BULB VINYL WEATHERSTRIP	VINYL
25	#12 X 1" PFH SELF DRILLING SMS	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
30	OUTSWING THRESHOLD	ALUM / WOOD
31	OUTSWING THRESHOLD	ALUM / WOOD
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR DETAILS	-
50	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR DETAILS	-
58	#8 X 2" PFH WS	STEEL
60	SECURITY SCREEN (ALUM 6063-T6) - OPTIONAL	ALUM / SS
88	2X REINFORCEMENT SG >= 0.55	WOOD



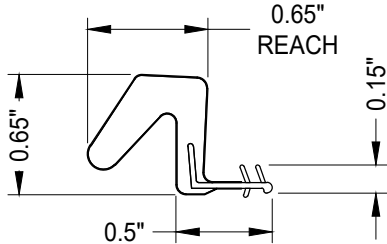
30 **OUTSWING THRESHOLD**
DLP (QOSR)



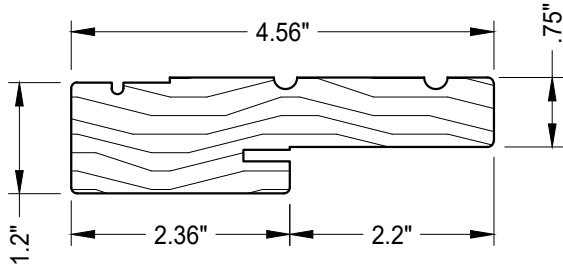
31 **OUTSWING THRESHOLD**
DLP (QOSH)



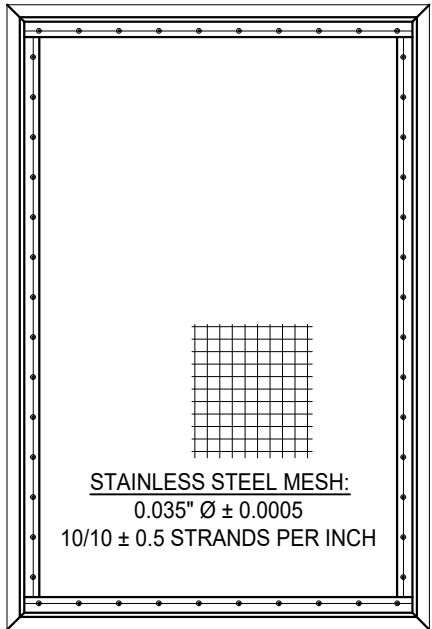
1 **POLY FIBER JAMB**
Plastpro



7 **WEATHERSTRIP**
Endura Force 5



2 **WOOD JAMB**



60 **SECURITY SCREEN**
ALUM (6063-T6)

Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT:

DLP
WINDSERT

PART OR ASSEMBLY:

BILL OF MATERIALS
AND COMPONENTS

NO.	DATE	REVISIONS
6	8/09/23	UPDATE TO 8TH ED. (2023) FBC
5	8/31/20	UPDATE TO 7TH ED. (2020) FBC
4	8/16/17	UPDATE TO 6TH ED. (2017) FBC
3	9/14/15	REVISED WINDSERT COMPONENTS
2	3/28/15	UPDATE TO 5TH ED. (2014) FBC
1	9/28/11	UPDATED TO 2010 FBC

DATE: 8/29/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-14803.2

SHEET 11 OF 11