

# JELD-WEN® Steel

ENERGY SAVER/CONTOUR 8'-0" WOOD EDGE OPAQUE STEEL OUTSWING  
IMPACT DOOR UNITS WITH & WITHOUT SIDELITES

### GENERAL NOTES

1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE AND HIGH VELOCITY HURRICANE ZONE "HVHZ" REQUIREMENTS.
2. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED PER ANCHOR LOCATION DRAWINGS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. SEE TABLE 1 ON THIS SHEET FOR DESIGN PRESSURE RATINGS.
5. THIS PRODUCT MEETS THE WATER REQUIREMENTS FOR "HVHZ" ZONES. SEE THE DESIGN PRESSURE CHART BELOW.
6. DOORS ARE IMPACT RATED AND DO NOT REQUIRE MIAMI-DADE APPROVED IMPACT RESISTANT SHUTTERS.
7. MIAMI-DADE APPROVED IMPACT RESISTANT SHUTTERS ARE REQUIRED FOR SIDELITES
8. SIDELITES ARE AN OPTION AND CAN BE USED IN A SINGLE OR DOUBLE CONFIGURATION.

### RESIDENTIAL INSULATED STEEL DOOR (Common to all frame conditions)

#### COMPONENT CONSTRUCTIONS:

**Face sheets:** 24 ga. (0.020") minimum thickness, Galvanized Steel A-525 commercial quality - AKDQ per ASTM 620 with average minimum yield strength  $F_y(\text{ave.})=30,627$  psi.  
**Core design:** Door core by JELD-WEN.

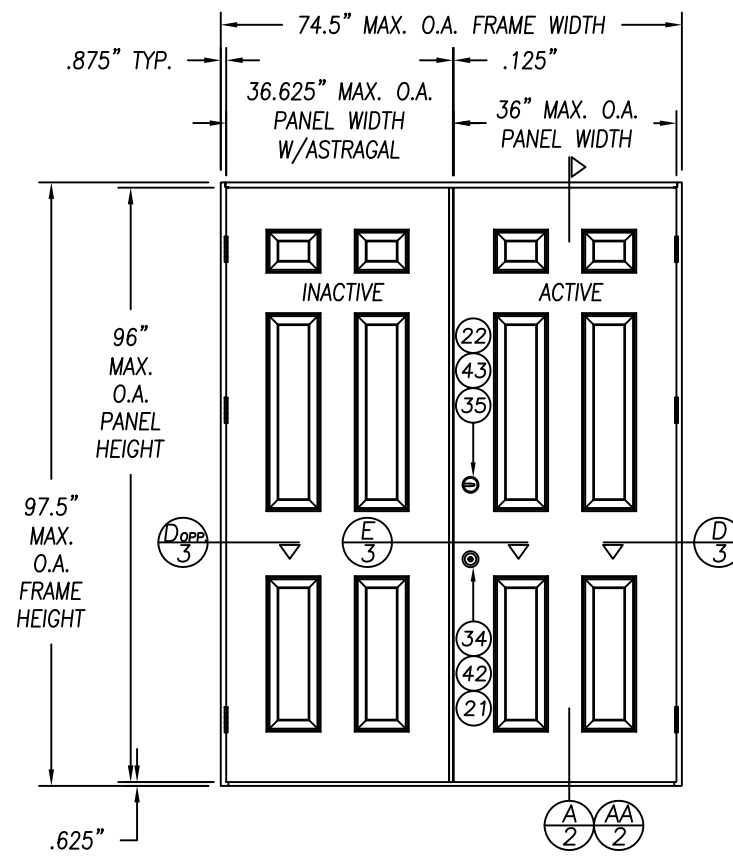
**Door Panel Construction:** The active and inactive panels are constructed from 24GA. (0.020" min.) galvanized steel. The face sheet tops and bottoms are bent 90° over the top and bottom rails. The top LVL rail measures 1.67" wide x 1.0" high. The steel bottom rail measures 1.67" wide x 1.21" high. The optional wood bottom rail measures 1.67" wide x 1.25" high. The sides of the face sheet are roll formed onto the LVL latch stile and Ponderosa Pine hinge stile which measure 1.67" x 1.0". The interior cavity is filled with door core by JW. The face sheets are glued to the core.

**Fixed Lite Const.:** The sash is constructed from 24GA. (0.020" min.) galvanized steel. The edges of the face sheet are bent 90° over the core and glued to it. The sidelite panels are routed to receive the ODL Lip Lite Frames or the optional Trinity Light Frames. (See sheet 7 for glazing details.) The lite frames are wet glazed on the interior and exterior.

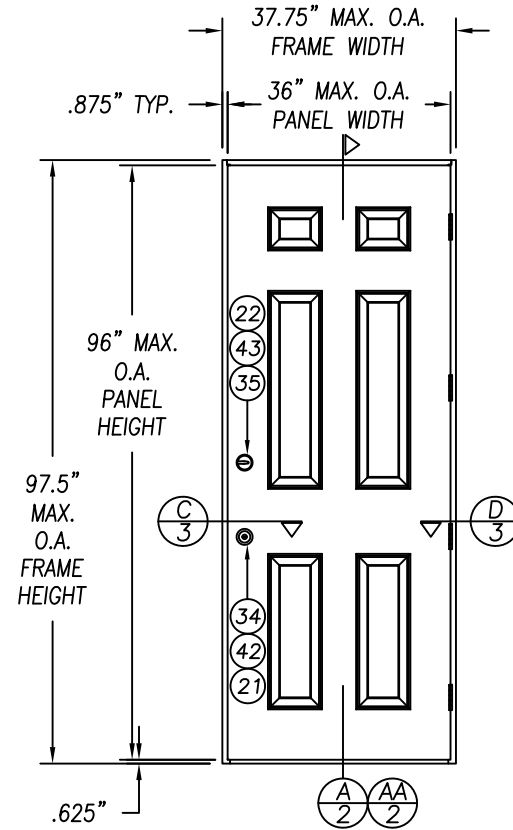
**Frame Construction:** The frames are constructed from Ponderosa Pine jambs measuring 1.25" wide x 4.563" deep. The door and sidelite head jambs are mortised and butt joined to the side jambs and attached with (3) 16GA. 2" x 7/16" crown wire staples. The units use a high dam bump face Imperial threshold measuring 5.25" deep x 1.75" high or a standard bump face Pemko threshold measuring 4.041" deep x 1.0" high. The thresholds are attached to the frames with (3) 16GA. 2" x 7/16" crown wire staples.

### TABLE OF CONTENTS

SHT #	DESCRIPTION
1	GENERAL NOTES AND TYPICAL ELEVATIONS
2	VERTICAL CROSS SECTIONS AND BILL OF MATERIALS
3	HORIZONTAL CROSS SECTIONS
4	HORIZONTAL CROSS SECTIONS AND NOTES
5	ANCHORING LOCATIONS AND DETAILS
6	ANCHORING LOCATIONS AND DETAILS
7	GLAZING DETAILS
8	UNIT COMPONENTS



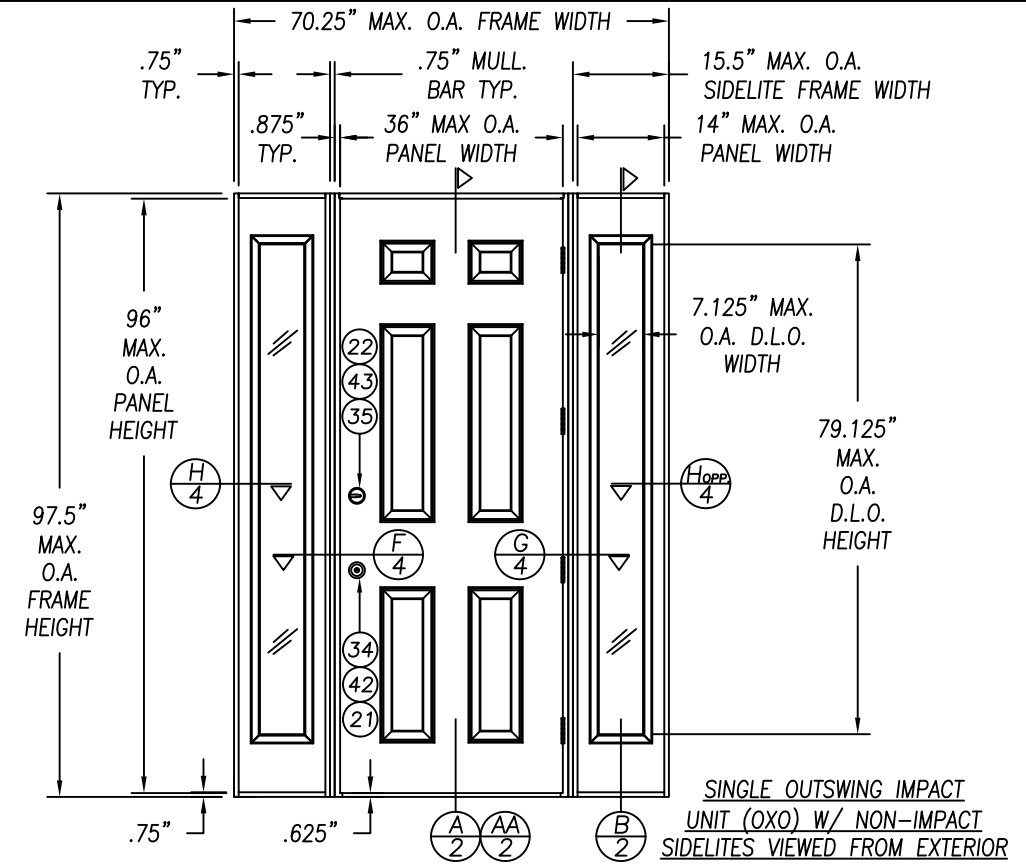
DOUBLE OUTSWING IMPACT UNIT (XX)  
VIEWED FROM EXTERIOR



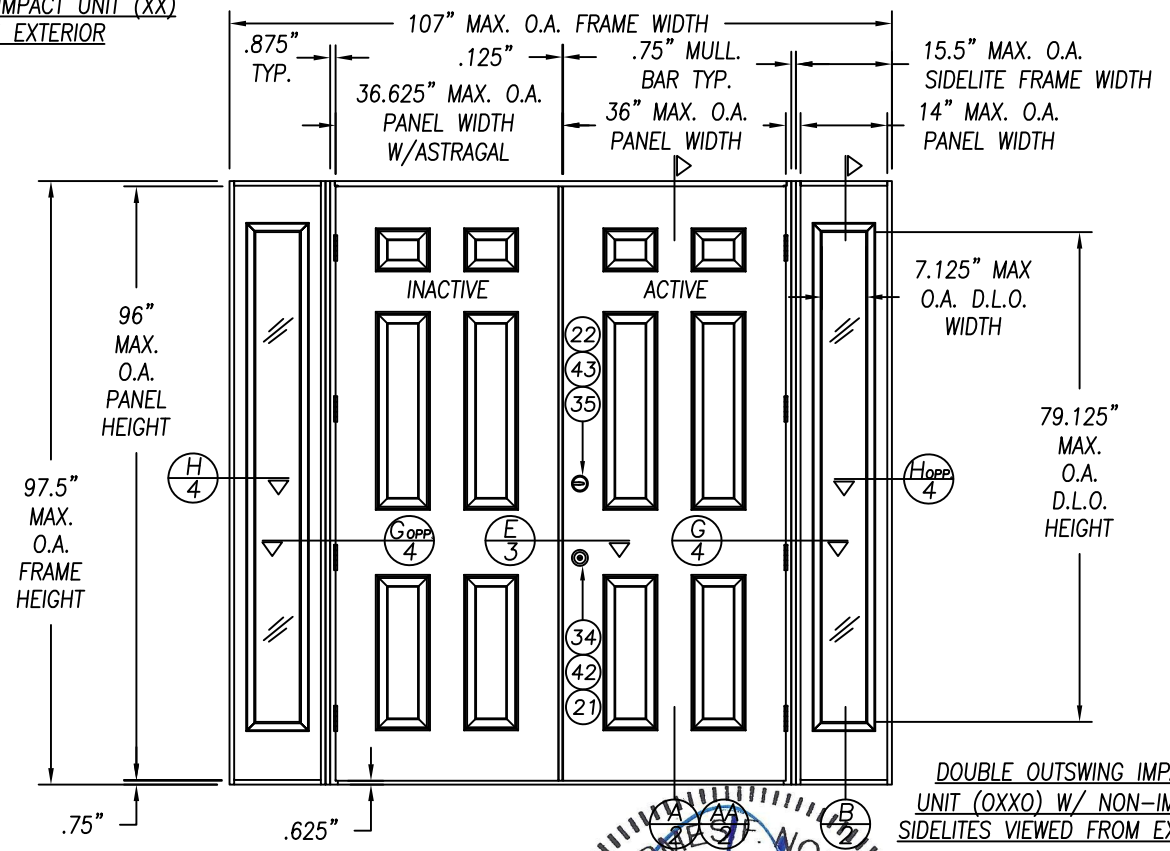
SINGLE OUTSWING IMPACT UNIT (X)  
VIEWED FROM EXTERIOR

TABLE 1:

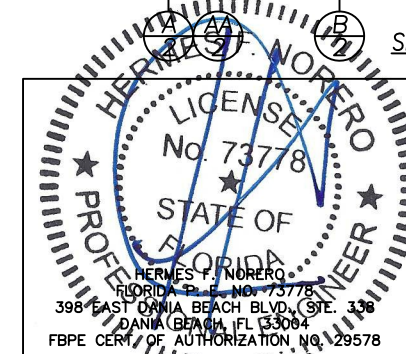
DESIGN PRESSURE RATING—WHERE WATER INFILTRATION REQUIREMENT IS NEEDED	W/BUMP FACE THRESHOLD	W/HIGH DAM THRESHOLD
SINGLE DOOR UNIT (X, OX, XO, OXO) W/WO NON-IMPACT SIDELITES	+50 psf -60 psf	+60 psf -60 psf
DOUBLE DOOR UNIT (XX, OXX, XXO, OXXO) W/WO NON-IMPACT SIDELITES	+47 psf -43 psf	+47 psf -43 psf



SINGLE OUTSWING IMPACT UNIT (OXO) W/ NON-IMPACT SIDELITES VIEWED FROM EXTERIOR



DOUBLE OUTSWING IMPACT UNIT (OXXO) W/ NON-IMPACT SIDELITES VIEWED FROM EXTERIOR



Prepared By:

BUILDING DROPS, INC.  
Phone: 407-644-6957  
Fax: 407-644-2366

JELD-WEN, INC.  
3737 LAKEPORT BLVD.  
KLAMATH FALLS, OR. 97601  
PH. 541.882.3451

PRODUCT:  
WOOD EDGE OPAQUE STEEL OUTSWING  
IMPACT DOOR UP TO 9'-0" x 8'-0"  
WITH & WITHOUT NON-IMPACT SIDELITES

TSB	JPH	JLA	WR	ROF	RW	TJH	BY
7/01/23/20	ADDED ADA THRESHOLD						
6/08/24/17	CHANGED DOOR CORE DEFINITION						
5/05/03/12	MODIFIED TO MEET THE 2010 FBC						
4/06/15/07	MODIFIED TO MEET THE 2004 FBC						
3/11/18/02	ADDED TRINITY LITE FRAME						
2/06/15/02	CORRECT B.O.M.						
1/03/15/02	GENERAL REVISION						
#	DATE						

DATE: 11-15-01

SCALE: N.T.S.

DWG. BY: WLN

CHK. BY: RW

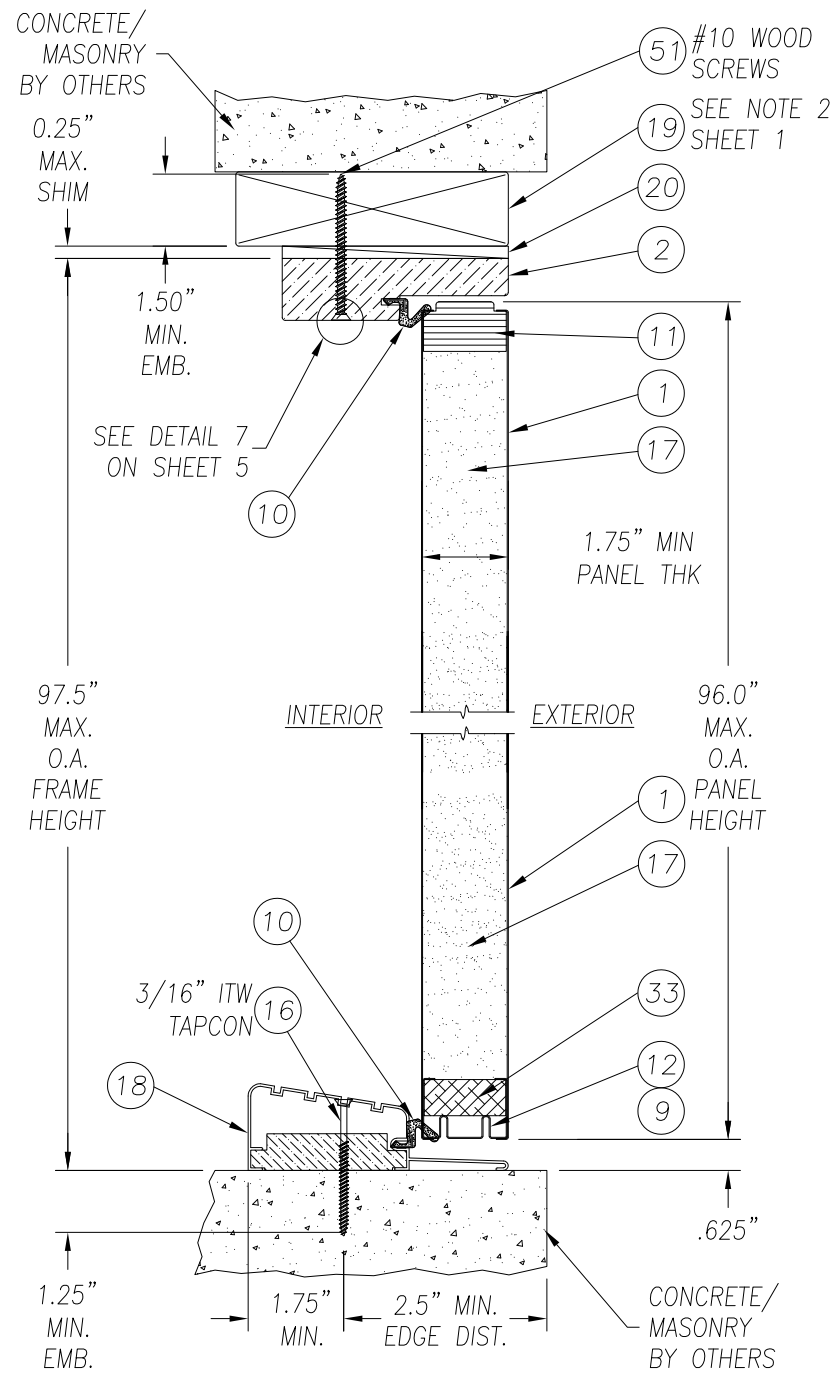
DRAWING NO.:

D015025

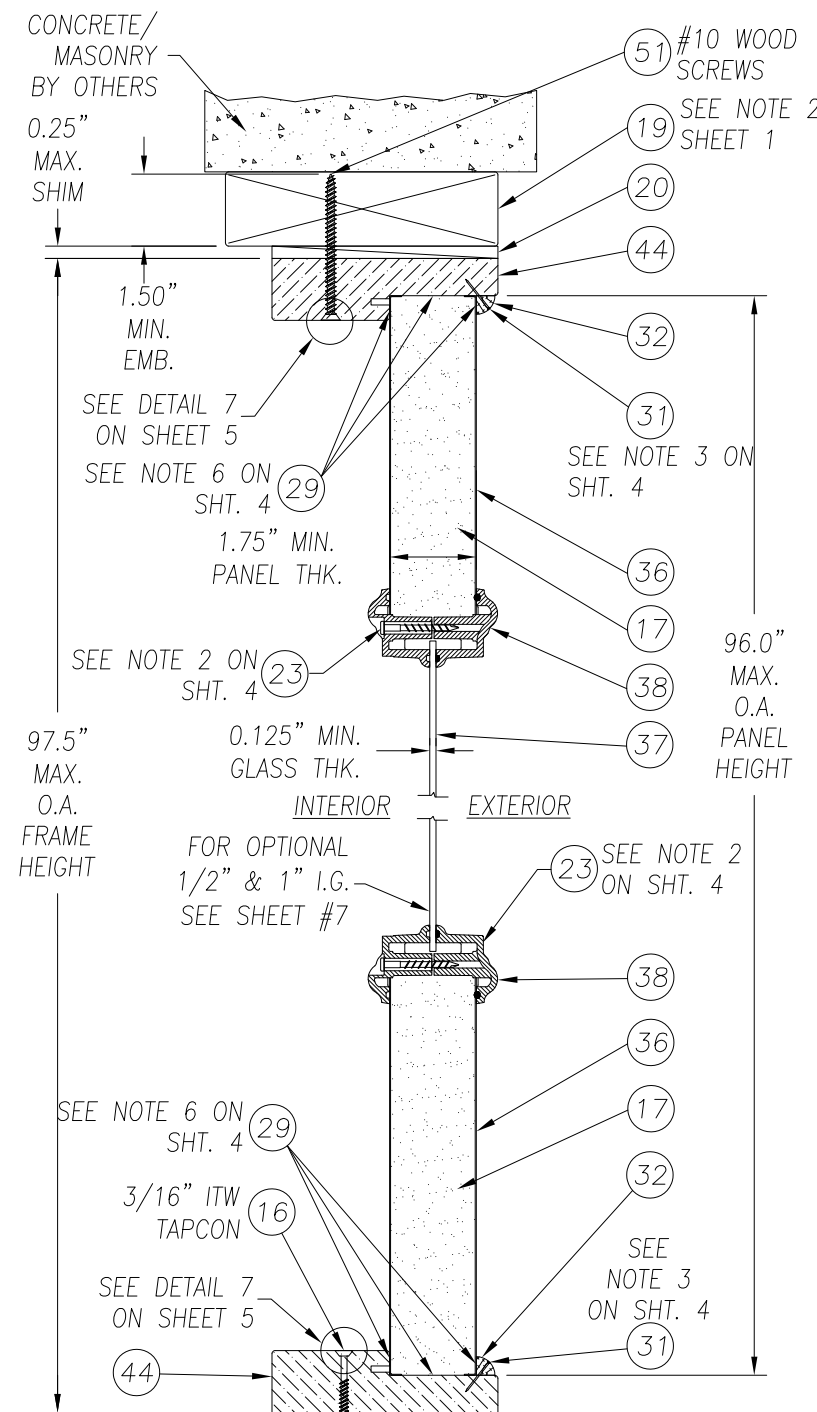
SHEET 1 OF 8

GENERAL NOTES AND  
TYPICAL ELEVATIONS

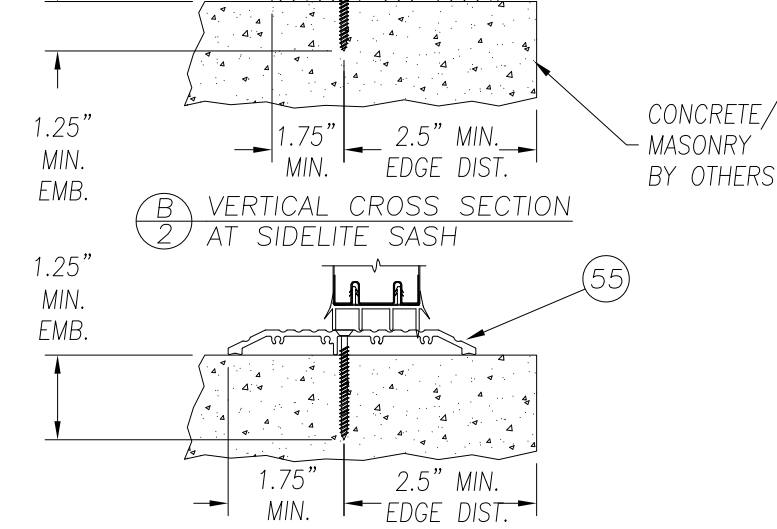
PART OR ASSEMBLY:



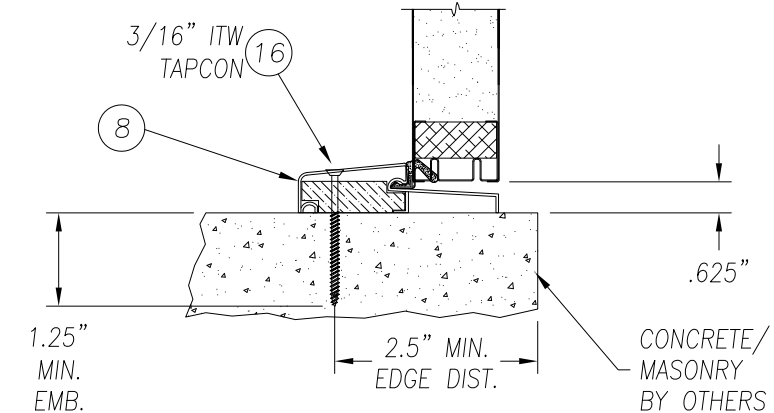
(A) VERTICAL CROSS SECTION WITH HIGH DAM THRESHOLD



(B) VERTICAL CROSS SECTION AT SIDELITE SASH



(AA) VERTICAL CROSS SECTION WITH ADA THRESHOLD



(AA) VERTICAL CROSS SECTION WITH STANDARD BUMP FACE THRESHOLD

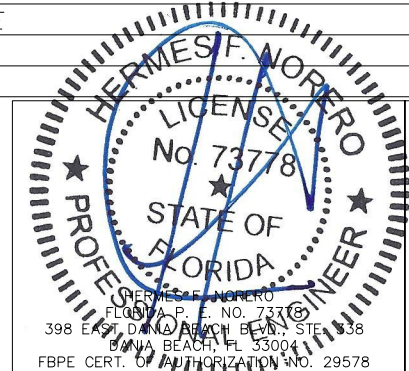
ITEM	DESCRIPTION	MATERIAL
1	DOOR STEEL FACE SHEET 24GA. (0.020"MIN.)	STEEL
2	FRAME HEAD (FINGER JOINTED PONDEROSA PINE)	WOOD
3	FRAME HINGE JAMB (FINGER JOINTED PONDEROSA PINE)	WOOD
4	FRAME LATCH JAMB (FINGER JOINTED PONDEROSA PINE)	WOOD
5	4" x 4" BUTT HINGE 12ga.	STEEL
6	#9 X 1" PFH WOOD SCREW (HINGE TO DOOR)	STEEL
7	DOOR LATCH STILE	LVL
8	OUTSWING PEMKO BUMP FACE THRESHOLD 4.041 x 1"	ALUMINUM
9	WOOD DOOR BOTTOM RAIL	WOOD
10	COMPRESSION WEATHERSTRIP	FOAM
11	DOOR TOP RAIL	LVL
12	STEEL DOOR BOTTOM RAIL	STEEL
13	DOOR HINGE STILE	WOOD
14	#10 X 1 3/4" PFH WOOD SCREW	STEEL
15	LOCK BLOCK	LVL
16	3/16" ITW TAPCON ANCHOR W/ 1 1/4" MIN. EMBED.	STEEL
17	DOOR CORE BY JELD-WEN	FOAM
18	HIGH DAM BUMP THRESHOLD	ALUMINUM
19	2x WOOD SUB BUCK	WOOD
20	SHIM (0.25" MAX. THK. HIGH DENSITY PLASTIC OR GREATER)	-
21	KWIKSET 400 SERIES KNOB	STEEL
22	KWIKSET 700 SERIES DEADBOLT (NOT SHOWN)	STEEL
23	#8 X 1 1/2" PLASCREW (ODL LITE FRAME)	STEEL
24	#8 X 2" PFH WOOD SCREW	STEEL
25	#8 X 2 1/2" PFH WOOD SCREW	STEEL
26	#10 X 1" PFH WOOD SCREW	STEEL
27	#10 X 2" PFH WOOD SCREW	STEEL
28	MULLION CAP	WOOD
29	SILICONE CAULK (CR LAWRENCE 33 C)	SILICONE
30	GLAZING COMPOUND (QSD BY ODL)	SILICONE
31	BRAD TRIM NAIL 16GA. X 3/4" LONG	STEEL
32	3/8" QUARTER ROUND SIDELITE STOP	WOOD
33	CORNER BLOCKS FOR STEEL DOOR BOTTOM RAIL	MDF
34	SCHLAGE KNOB SET #F51	STEEL
35	SCHLAGE DEADBOLT #B360 (NOT SHOWN)	STEEL
36	SIDELITE STEEL FACE SHEET 24GA. (0.020" MIN. STEEL)	STEEL
37	1/8" TEMPERED GLASS (BY PPG)	GLASS
38	ODL LITE FRAME SG (HP POLYPROP. THERMOFIL-P6-30FM0391)	POLYPROP.
39	PRESSURE TREATED MULLION BAR (3/4" x 4 9/16 x 97 1/2")	P.T. WOOD
40	ALUMINUM EXTRUDED ASTRAGAL	ALUMINUM
41	ASTRAGAL STRIKE PLATE	STEEL
42	YALE KNOB HERITAGE SERIES	STEEL
43	YALE DEADBOLT HERITAGE SERIES (NOT SHOWN)	STEEL
44	SIDELITE FRAME HEAD, SILL AND JAMBS (FINGER JOINTED PONDEROSA PINE)	WOOD
45	LITE FRAME BY TRINITY FOR 1/2" I.G.U.	POLYPROP.
46	1/2" INSULATED TEMPERED GLASS (BY TRINITY/AMPAC)	GLASS
47	LITE FRAME BY TRINITY FOR 1" GLASS	POLYPROP.
48	1" INSULATED TEMPERED GLASS (BY TRINITY/AMPAC)	GLASS
49	LITE FRAME SCREW #6 X 1 1/2" LONG PANHEAD (BY TRINITY)	STEEL
50	GLAZING COMPOUND DOW 1199	SILICONE
51	#10 WOOD INSTALLATION SCREW W/ 1.50" MIN. EMBEDMENT	STEEL
52	DOOR LATCH STRIKE PLATE	STEEL
53	DOOR LATCH DEAD BOLT STRIKE PLATE	STEEL
54	WEATHERSTRIP OPTION	---
55	ADA THRESHOLD	ALUMINUM

**JELD-WEN, INC.**  
**3737 LAKEPORT BLVD.**  
**KLAMATH FALLS, OR. 97601**  
**PH. 541.882.3451**

PRODUCT:  
WOOD EDGE OPAQUE STEEL OUTSWING  
IMPACT DOOR UP TO 9'-0" x 8'-0"  
WITH & WITHOUT NON-IMPACT SIDELITES

PART OR ASSEMBLY:  
VERTICAL CROSS SECTIONS  
AND BILL OF MATERIALS

TSB	ADDED ADA THRESHOLD	ADDED TRINITY LITE FRAME	CORRECT B.O.M.	GENERAL REVISION	REVISIONS	DATE
7	01/23/20					
6	08/24/17	CHANGED DOOR CORE DEFINITION				
5	05/03/12	MODIFIED TO MEET THE 2010 FBC				
4	06/15/07	MODIFIED TO MEET THE 2004 FBC				
3	11/18/02	ADDED TRINITY LITE FRAME				
2	06/15/02	CORRECT B.O.M.				
1	03/15/02	GENERAL REVISION				



Prepared By:  
BUILDING DROPS, INC.  
Phone: 407-644-6957  
Fax: 407-644-2366

DATE:	11-15-01
SCALE:	N.T.S.
DWG. BY:	WLN
CHK. BY:	RW
DRAWING NO.:	D015025
SHEET	2 OF 8

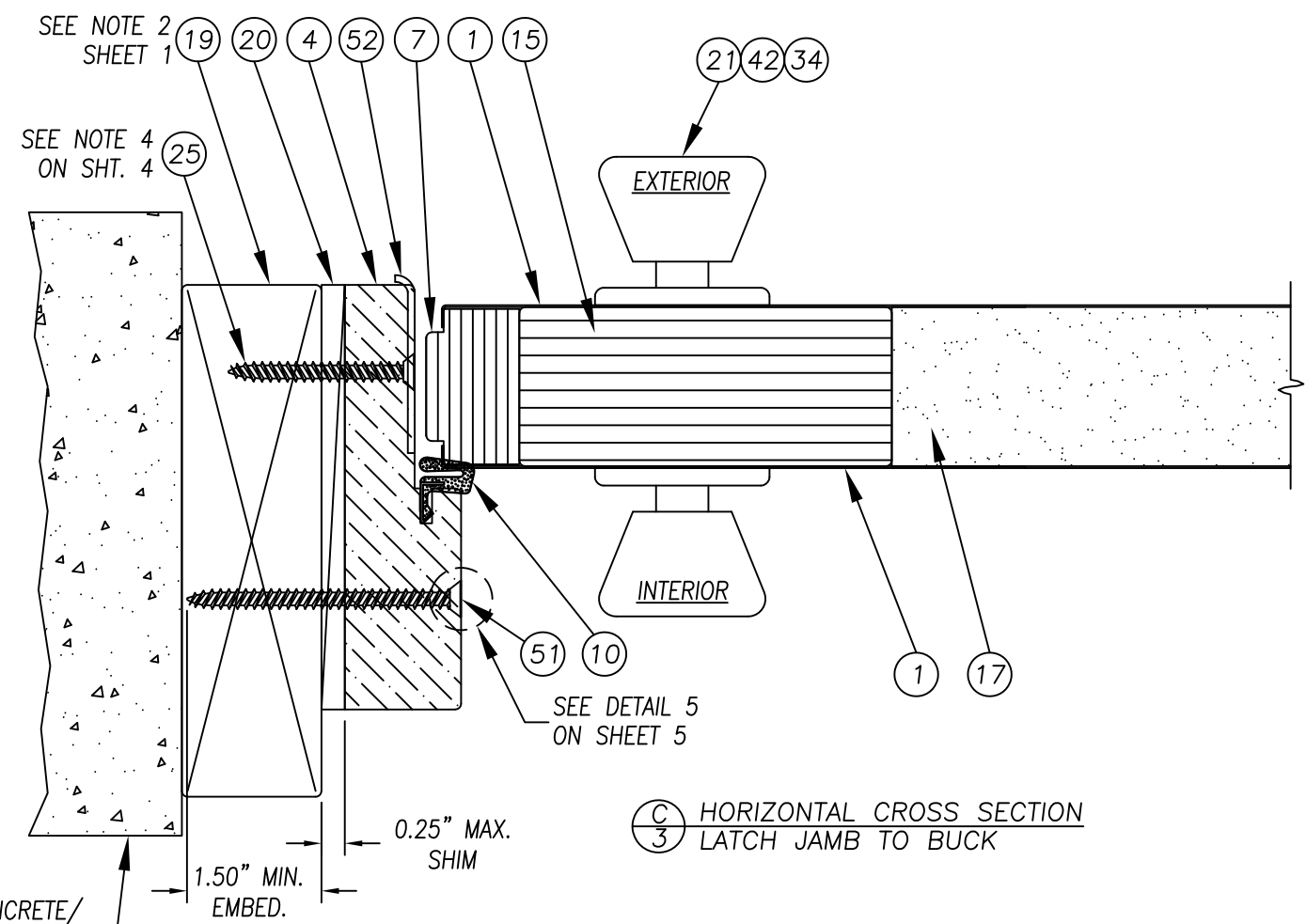


**JELD-WEN, INC.**  
 3737 LAKEPORT BLVD.  
 KLAMATH FALLS, OR. 97601  
 PH. 541.882.3451

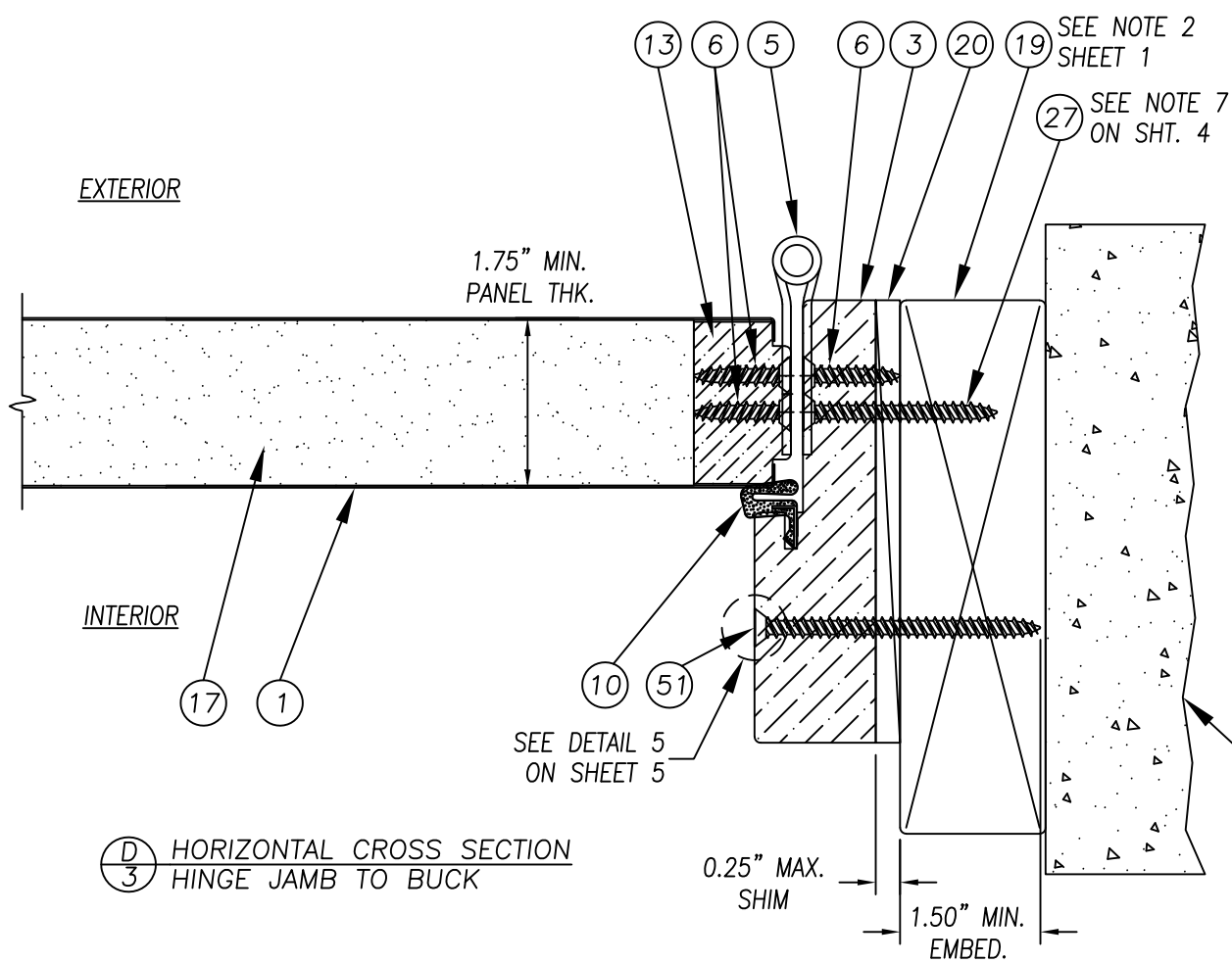
PRODUCT: WOOD EDGE OPAQUE STEEL OUTSWING IMPACT DOOR UP TO 9'-0" x 8'-0" WITH & WITHOUT NON-IMPACT SIDELITES  
 PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

TSB	JPH	JLA	WR	ROF	RW	TJH	BY
7	01/23/20	ADDED ADA THRESHOLD					
6	08/24/17	CHANGED DOOR CORE DEFINITION					
5	05/03/12	MODIFIED TO MEET THE 2010 FBC					
4	06/15/07	MODIFIED TO MEET THE 2004 FBC					
3	11/18/02	ADDED TRINITY LITE FRAME					
2	06/15/02	CORRECT B.O.M.					
1	03/15/02	GENERAL REVISION					
	#	DATE					

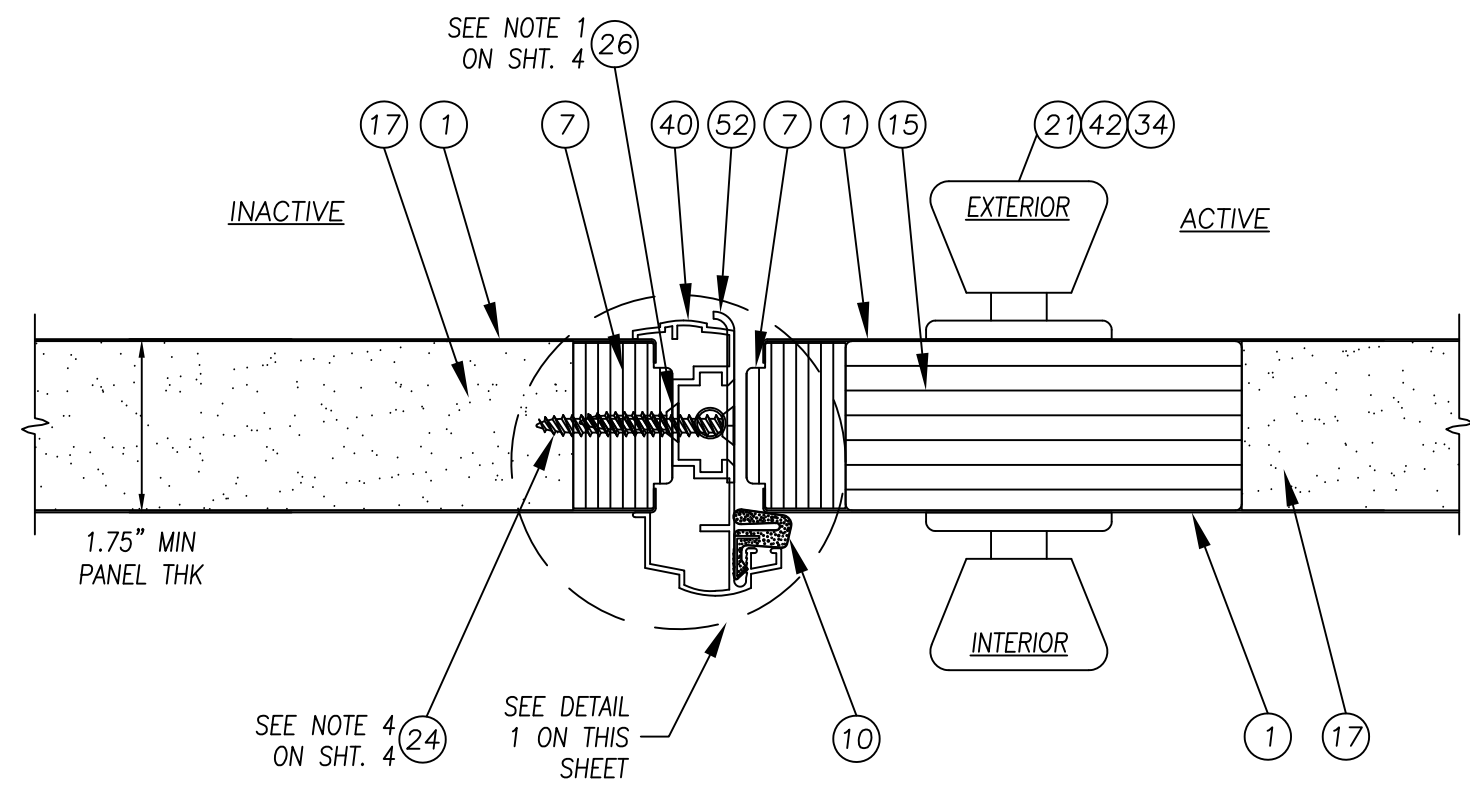
DATE:	11-15-01
SCALE:	N.T.S.
DWG. BY:	WLN
CHK. BY:	RW
DRAWING NO.:	D015025
SHEET	3 OF 8



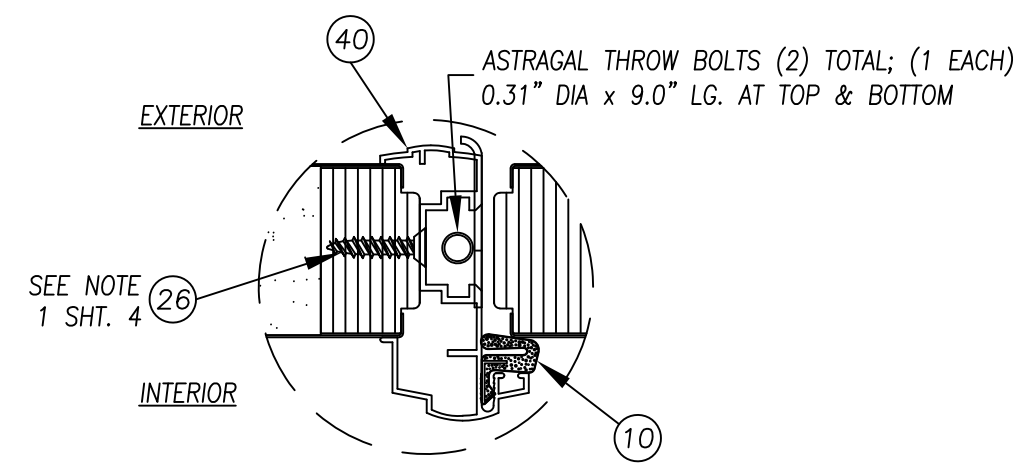
**(C)** HORIZONTAL CROSS SECTION LATCH JAMB TO BUCK



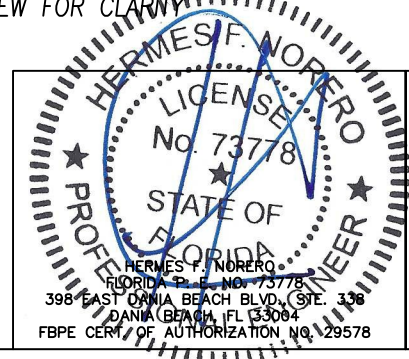
**(D)** HORIZONTAL CROSS SECTION HINGE JAMB TO BUCK



**(E)** HORIZONTAL CROSS SECTION AT ASTRAGAL



**DETAIL 1**  
 ASTRAGAL TO STILE ATTACHMENT  
 NOTE: ITEM 24 NOT SHOWN THIS VIEW FOR CLARITY



Prepared By:  
 BUILDING DROPS, INC.  
 Phone: 407-644-6957  
 Fax: 407-644-2366

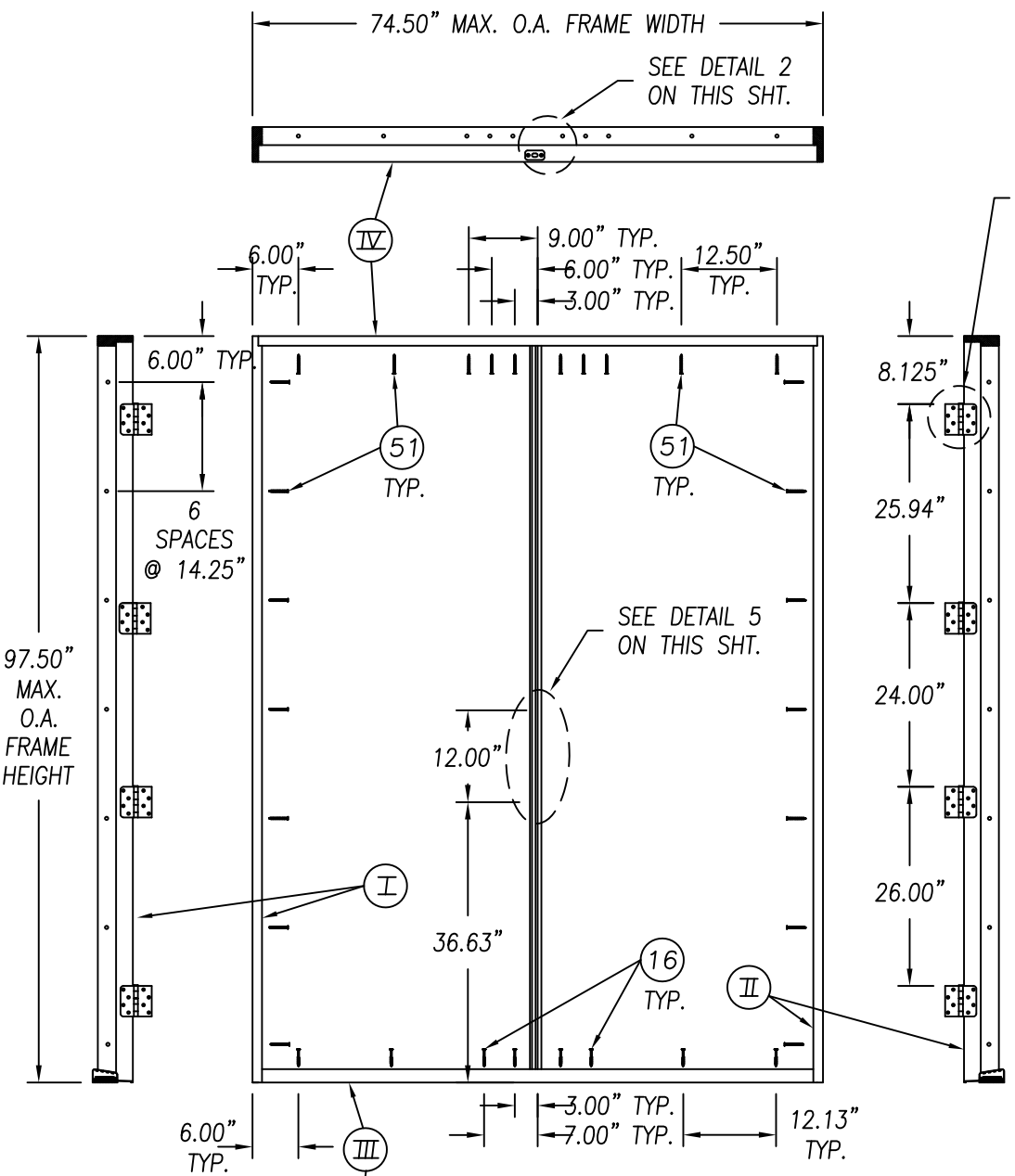


**JELD-WEN, INC.**  
**3737 LAKEPORT BLVD.**  
**KLAMATH FALLS, OR. 97601**  
**PH. 541.882.3451**

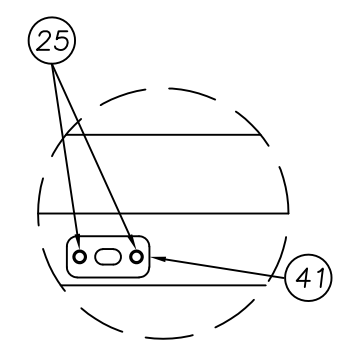
PRODUCT: WOOD EDGE OPAQUE STEEL OUTSWING IMPACT DOOR UP TO 9'-0" x 8'-0" WITH & WITHOUT NON-IMPACT SIDELITES  
 PART OR ASSEMBLY: ANCHORING LOCATIONS AND DETAILS

TSB	JPH	JLA	WR	ROF	RW	TJH	BY
7 01/23/20	ADDED ADA THRESHOLD						
6 08/24/17	CHANGED DOOR CORE DEFINITION						
5 05/03/12	MODIFIED TO MEET THE 2010 FBC						
4 06/15/07	MODIFIED TO MEET THE 2004 FBC						
3 11/18/02	ADDED TRINITY LITE FRAME						
2 06/15/02	CORRECT B.O.M.						
1 03/15/02	GENERAL REVISION						
#	REVISIONS						
	DATE						

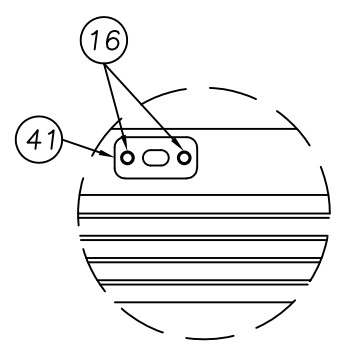
DATE:	11-15-01
SCALE:	N.T.S.
DWG. BY:	WLN
CHK. BY:	RW
DRAWING NO.:	D015025
SHEET	5 OF 8



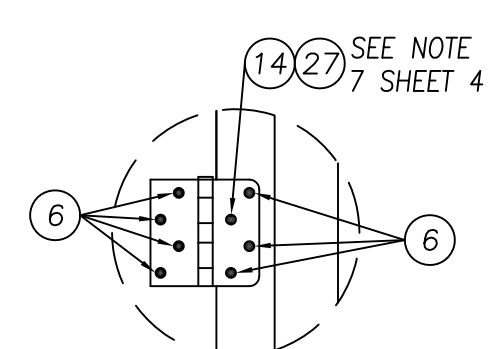
DOUBLE DOOR WITHOUT SIDELITES ANCHOR LOCATIONS VIEWED FROM INTERIOR



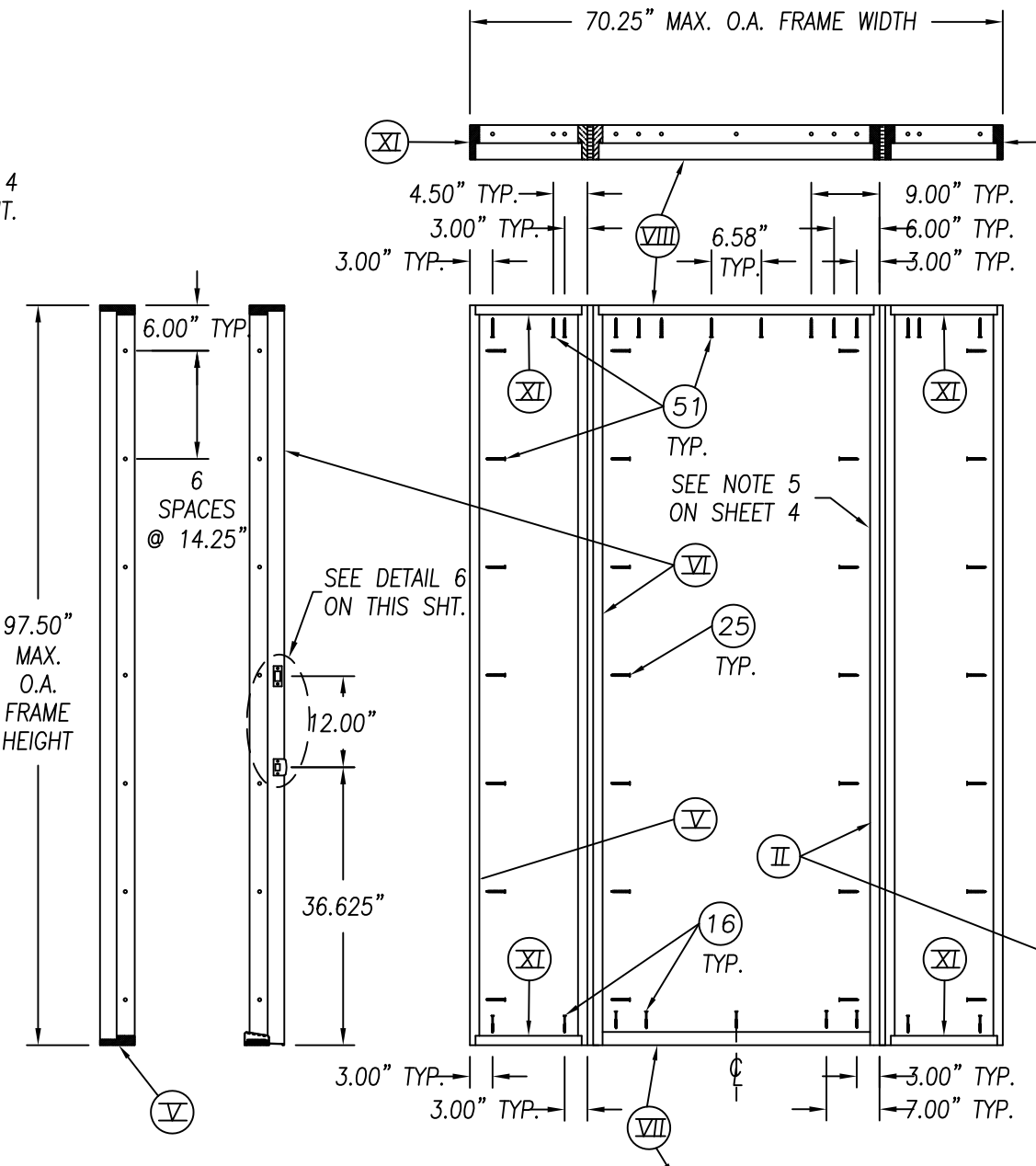
DETAIL 2 - @ HEAD JAMB ASTRAGAL STRIKE PLATE



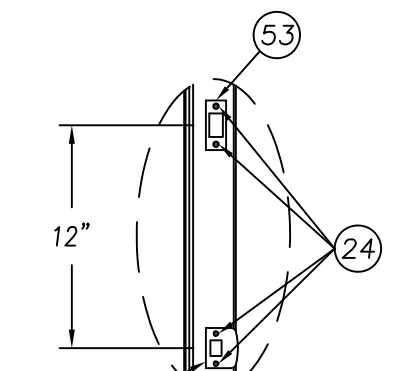
DETAIL 3 - @ THRESHOLD ASTRAGAL STRIKE PLATE



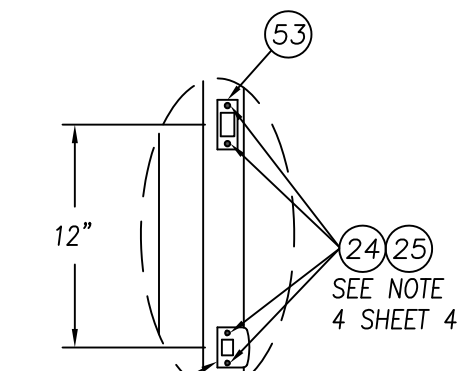
DETAIL 4 HINGES TO JAMB & DOOR



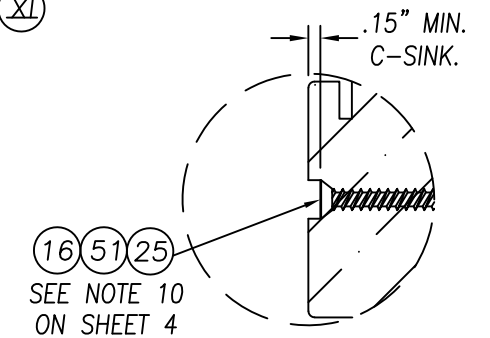
SINGLE DOOR WITH SIDELITES ANCHOR LOCATIONS VIEWED FROM INTERIOR



DETAIL 5 STRIKE PLATES TO ASTRAGAL

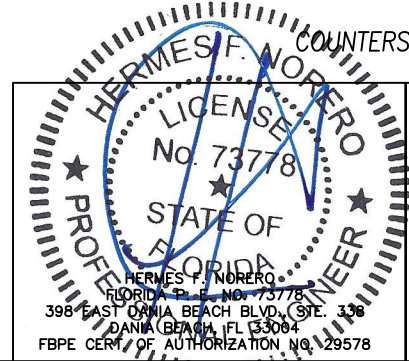


DETAIL 6 STRIKE PLATES TO JAMB



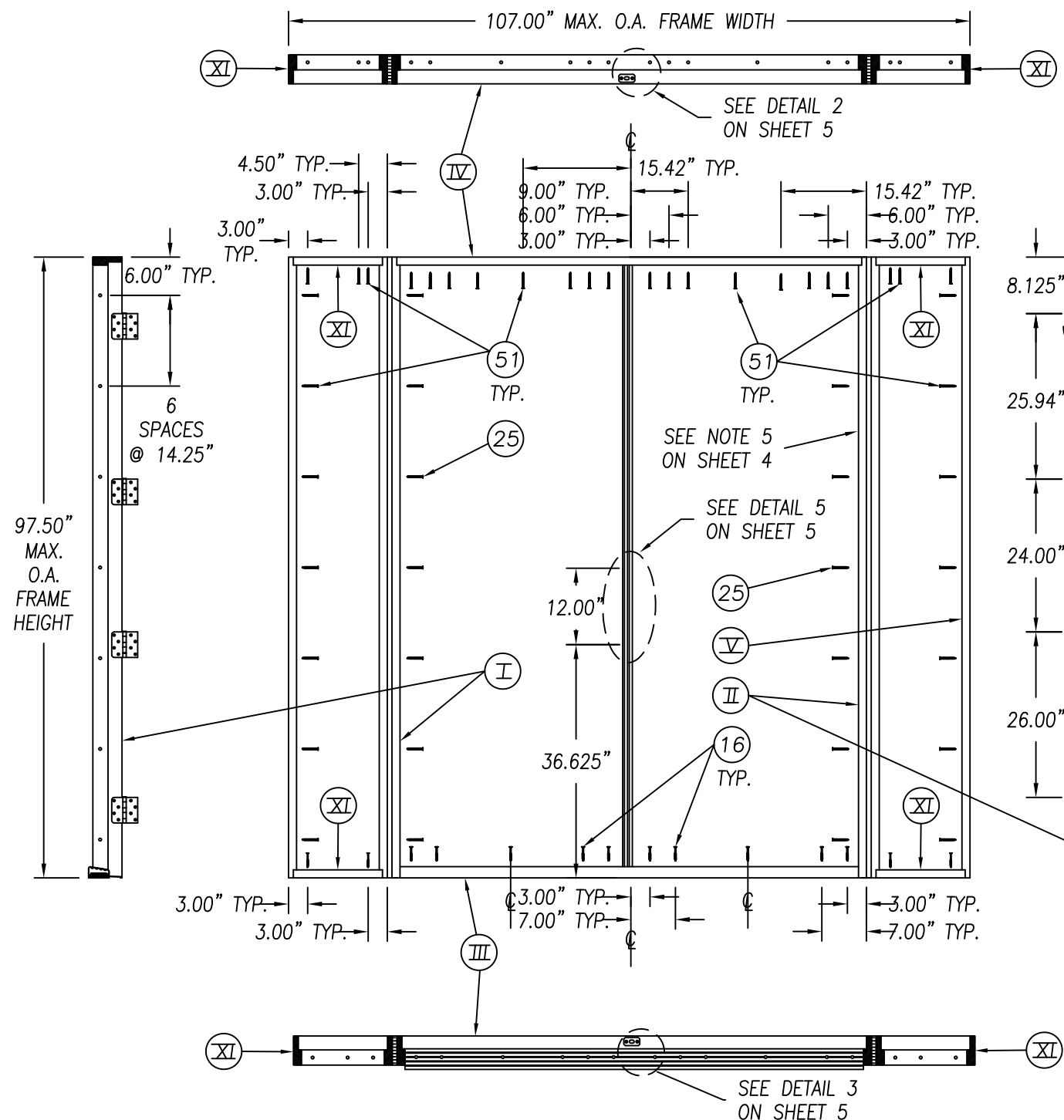
SEE NOTE 10 ON SHEET 4

DETAIL 7 COUNTERSINK FOR INSTALLATION ANCHORS

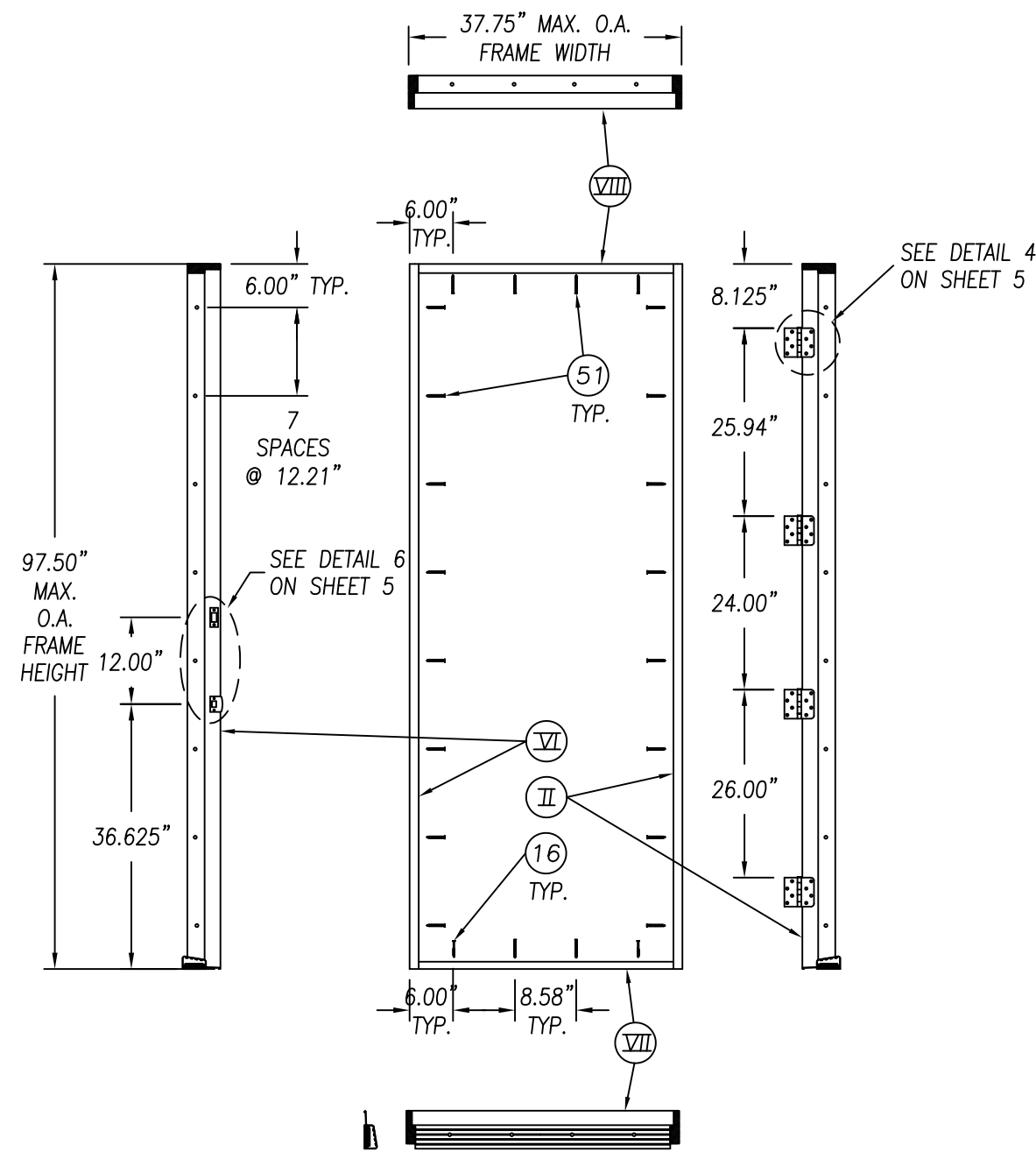


Prepared By:  
 BUILDING DROPS, INC.  
 Phone: 407-644-6957  
 Fax: 407-644-2366





DOUBLE DOOR WITH SIDELITES ANCHOR LOCATIONS  
VIEWED FROM INTERIOR



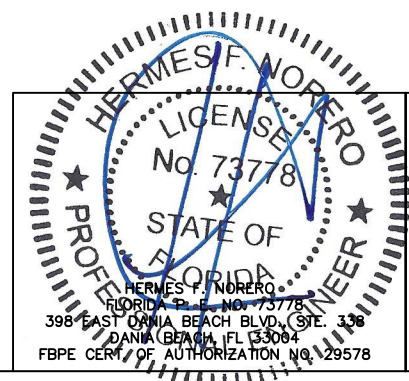
SINGLE DOOR WITHOUT SIDELITES ANCHOR LOCATIONS  
VIEWED FROM INTERIOR

**JELD-WEN, INC.**  
3737 LAKEPORT BLVD.  
KLAMATH FALLS, OR. 97601  
PH. 541.882.3451

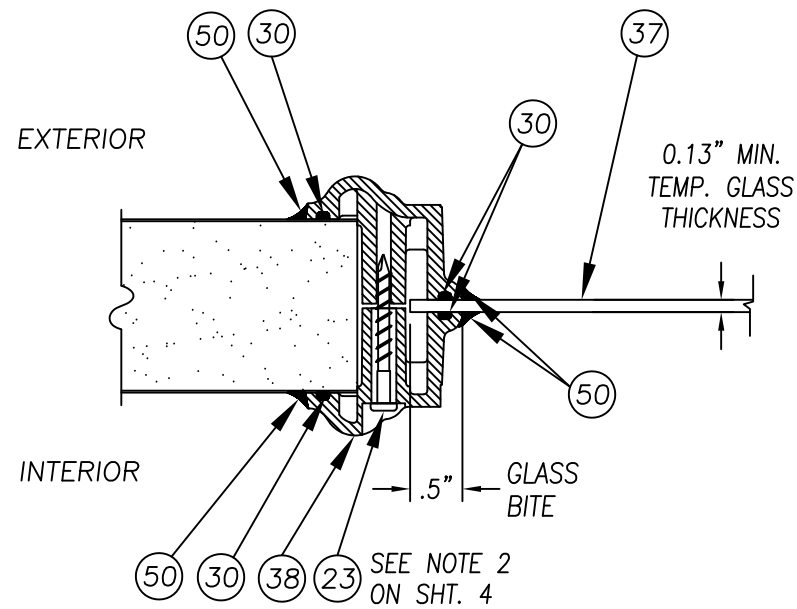
PRODUCT: WOOD EDGE OPAQUE STEEL OUTSWING IMPACT DOOR UP TO 9'-0" x 8'-0" WITH & WITHOUT NON-IMPACT SIDELITES  
PART OR ASSEMBLY: ANCHORING LOCATIONS AND DETAILS

TSB	JPH	JLA	WR	ROF	RW	TJH	BY
7/01/23/20	ADDED ADA THRESHOLD						
6/08/24/17	CHANGED DOOR CORE DEFINITION						
5/05/03/12	MODIFIED TO MEET THE 2010 FBC						
4/06/15/07	MODIFIED TO MEET THE 2004 FBC						
3/11/18/02	ADDED TRINITY LIFE FRAME						
2/06/15/02	CORRECT B.O.M.						
1/03/15/02	GENERAL REVISION						
#	REVISIONS						
	DATE						

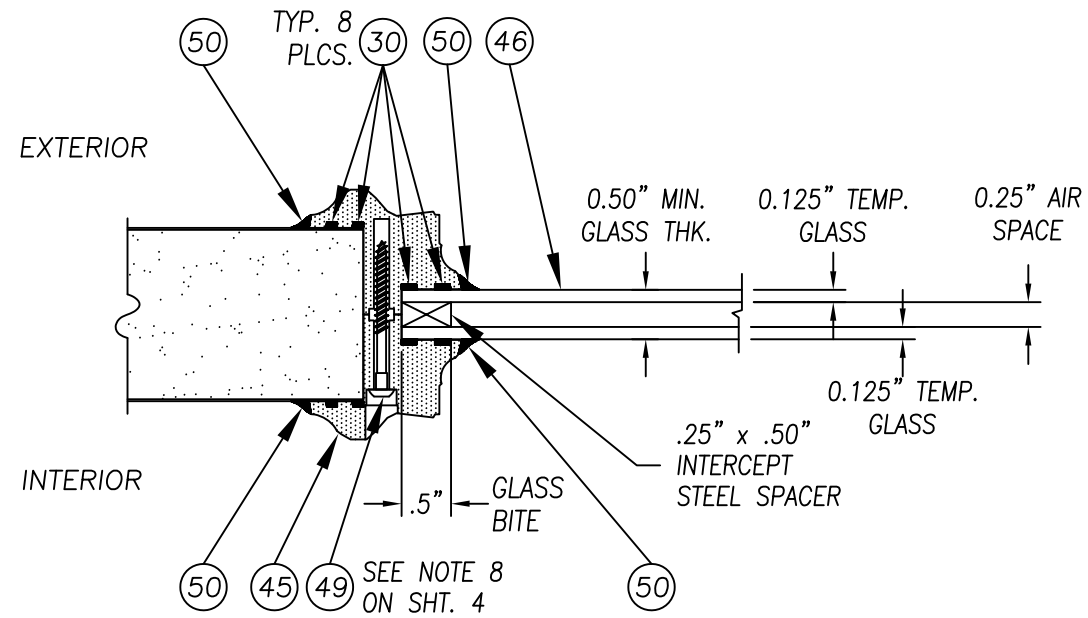
DATE:	11-15-01
SCALE:	N.T.S.
DWG. BY:	WLN
CHK. BY:	RW
DRAWING NO.:	D015025
SHEET	6 OF 8



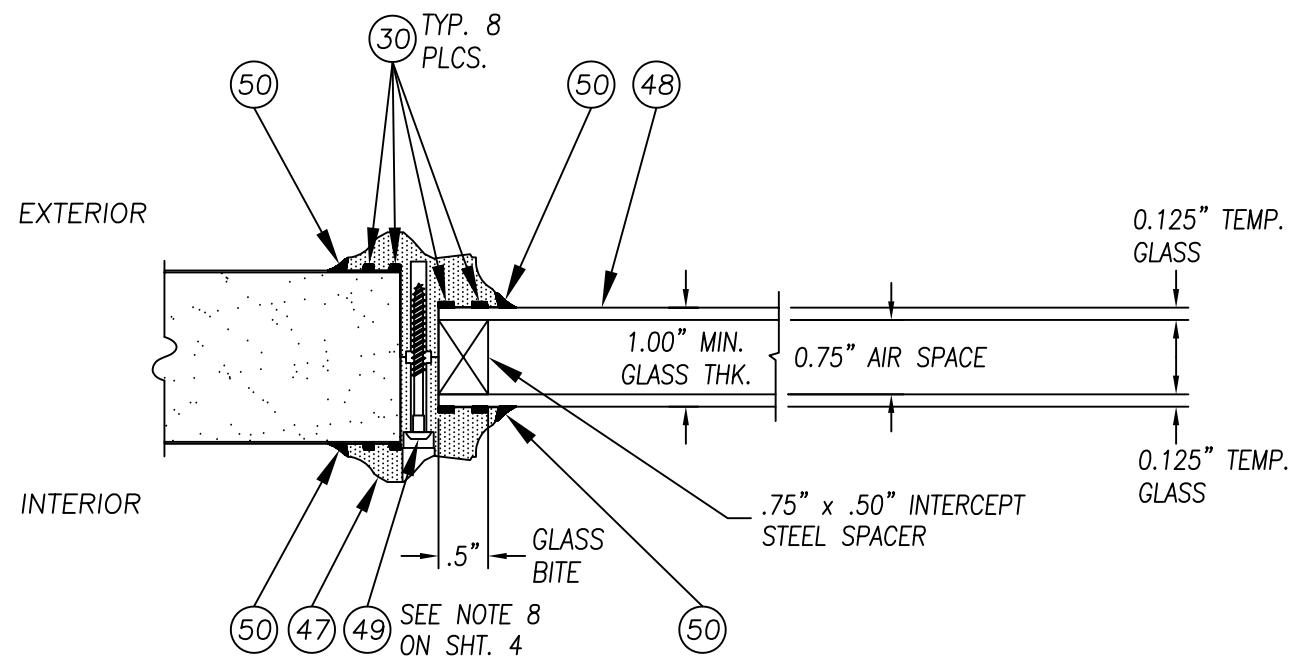
Prepared By:  
  
BUILDING DROPS, INC.  
Phone: 407-644-6957  
Fax: 407-644-2366



38 GLAZING DETAIL ODL LITE FRAME  
SINGLE PANE 1/8" TEMPERED GLASS  
HP POLYPROPYLENE  
THERMOFIL-P6-30FM0391



45 GLAZING DETAIL TRINITY LITE FRAME  
1/2" INSULATED TEMPERED GLASS  
LUPOY EU-5007



47 GLAZING DETAIL TRINITY LITE FRAME  
1" INSULATED TEMPERED GLASS  
LUPOY EU-5007

JELD-WEN, INC.  
3737 LAKEPORT BLVD.  
KLAMATH FALLS, OR. 97601  
PH. 541.882.3451

PRODUCT:  
WOOD EDGE OPAQUE STEEL OUTSWING  
IMPACT DOOR UP TO 9'-0" x 8'-0"  
WITH & WITHOUT NON-IMPACT SIDELITES

TSB	JPH	JLA	WR	ROF	RW	TJH	BY
7	01/23/20	ADDED ADA THRESHOLD					
6	08/24/17	CHANGED DOOR CORE DEFINITION					
5	05/03/12	MODIFIED TO MEET THE 2010 FBC					
4	06/15/07	MODIFIED TO MEET THE 2004 FBC					
3	11/18/02	ADDED TRINITY LITE FRAME					
2	06/15/02	CORRECT B.O.M.					
1	03/15/02	GENERAL REVISION					
#	DATE	REVISIONS					

DATE: 11-15-01

SCALE: N.T.S.

DWG. BY: WLN

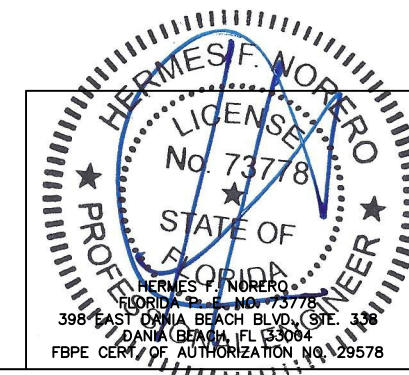
CHK. BY: RW

DRAWING NO.:

D015025

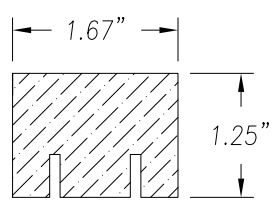
SHEET 7 OF 8

PART OR ASSEMBLY:  
GLAZING DETAILS

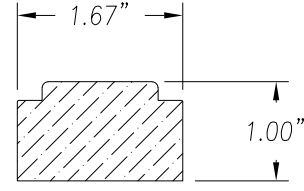


Prepared By:

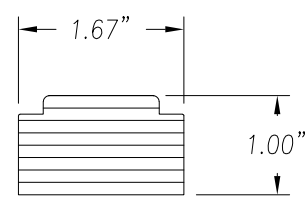
BUILDING DROPS, INC.  
Phone: 407-644-6957  
Fax: 407-644-2366



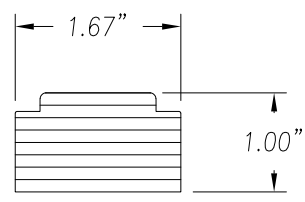
9 WOOD BOTTOM RAIL



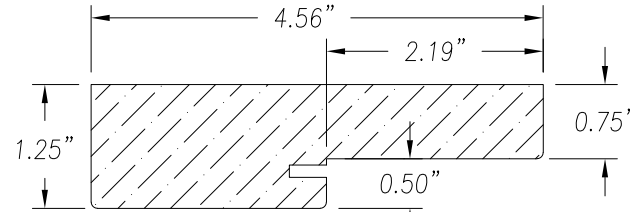
13 WOOD HINGE STILE



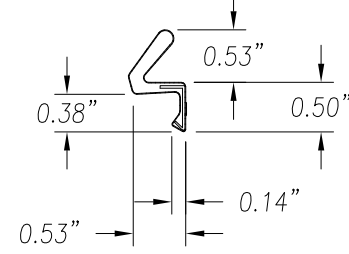
7 LVL LATCH STILE



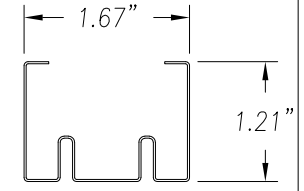
11 LVL TOP RAIL



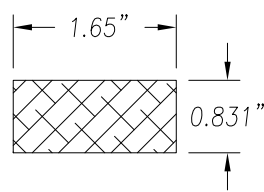
2 3 WOOD JAMB  
4 44 FINGER JOINTED  
PONDEROSA PINE



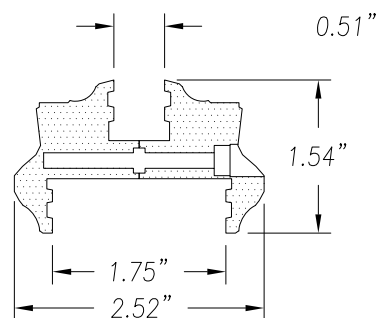
10 COMPRESSION WEATHERSTRIP  
SCHLEGEL Q-LON QDS 650



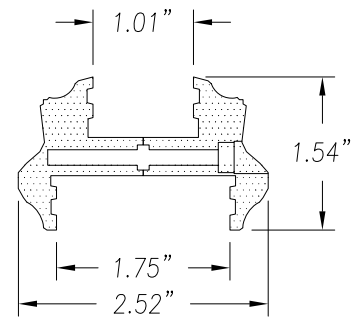
12 DOOR BOTTOM RAIL  
24GA (.020) STEEL



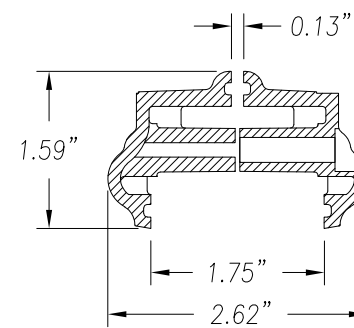
33 CORNER BLOCK FOR  
STEEL BOTTOM RAIL  
MDF x 3.0\"/>



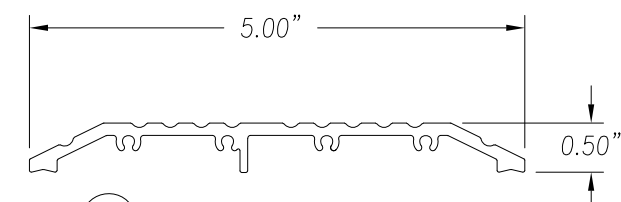
45 1/2\"/>



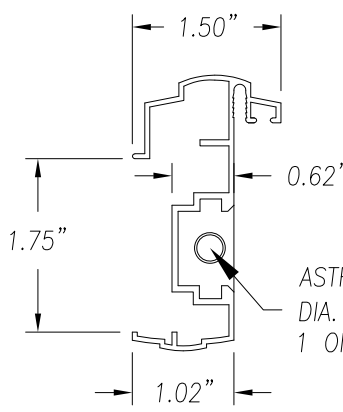
47 1\"/>



38 1/8\"/>

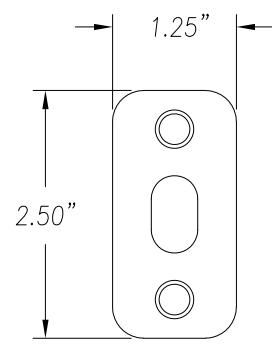


55 OPERABLE ADA SILL  
ALUMINUM

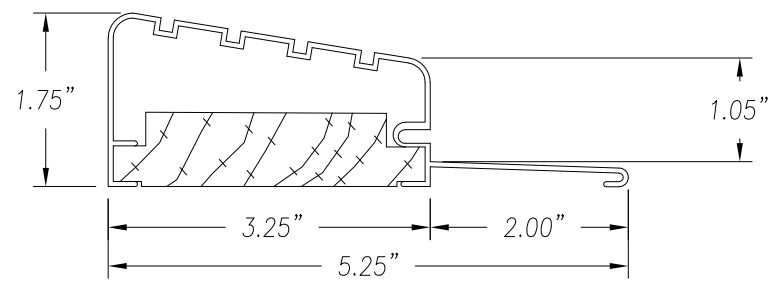


ASTRAGAL HAS TWO .312\"/>

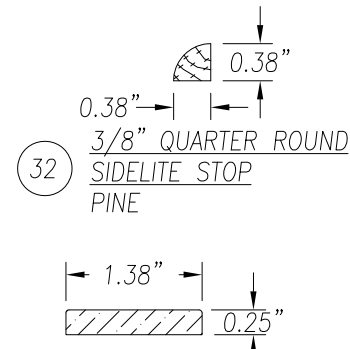
40 ASTRAGAL  
6063-T6 ALUMINUM



41 ASTRAGAL STRIKE PLATE  
(0.125\"/>

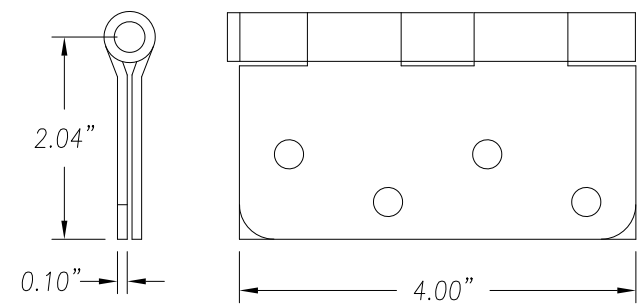


18 OUTSWING HIGH DAM BUMP FACE THRESHOLD  
0.051\"/>

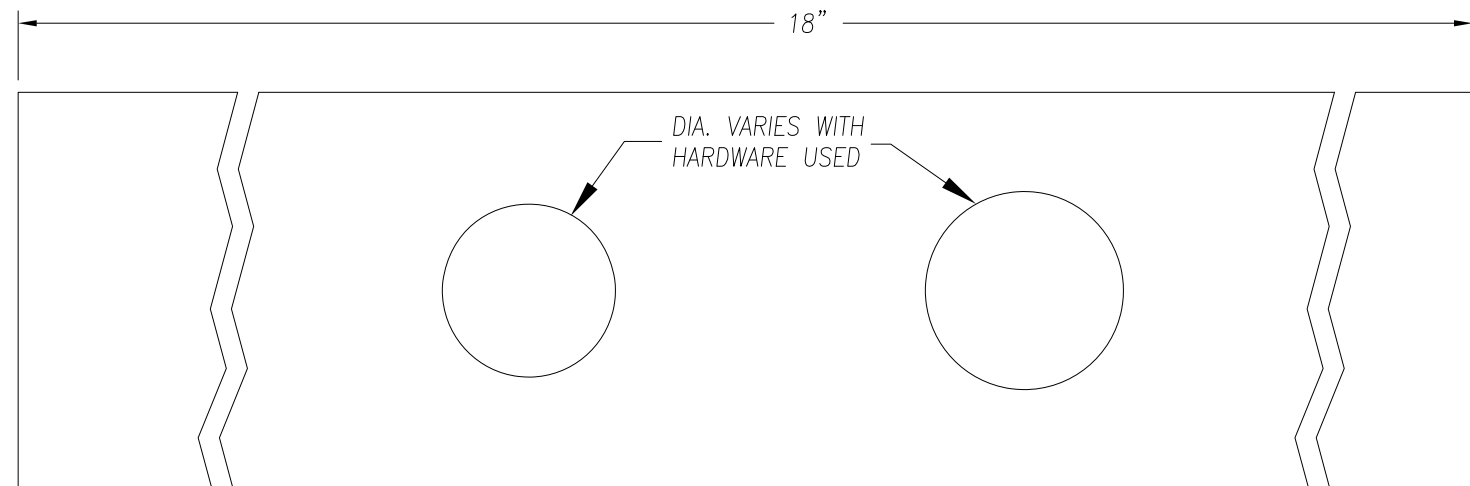


32 3/8\"/>

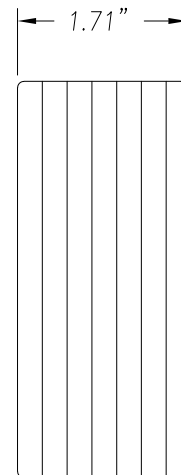
28 MULLION CAP  
PINE (97.50\"/>



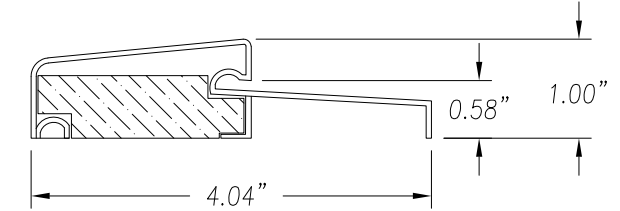
5 BUTT HINGE  
4\"/>



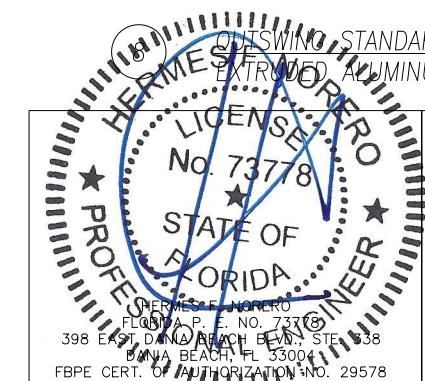
15 WOOD LOCK BLOCK  
LVL x 1.71\"/>



54 WEATHERSTRIP



OUTSWING STANDARD BUMP FACE THRESHOLD  
EXTRUDED ALUMINUM - WITH WOOD INSERT



Prepared By:  
  
BUILDING DROPS, INC.  
Phone: 407-644-6957  
Fax: 407-644-2366

JELD-WEN, INC.  
3737 LAKEPORT BLVD.  
KLAMATH FALLS, OR. 97601  
PH. 541.882.3451

PRODUCT:  
WOOD EDGE OPAQUE STEEL OUTSWING  
IMPACT DOOR UP TO 9'-0\"/>

TSB	JPH	JLA	WR	ROF	RW	TJH	BY
7	01/23/20	ADDED ADA THRESHOLD					
6	08/24/17	CHANGED DOOR CORE DEFINITION					
5	05/03/12	MODIFIED TO MEET THE 2010 FBC					
4	06/15/07	MODIFIED TO MEET THE 2004 FBC					
3	11/18/02	ADDED TRINITY LITE FRAME					
2	06/15/02	CORRECT B.O.M.					
1	03/15/02	GENERAL REVISION					
#	DATE	REVISIONS					

DATE: 11-15-01  
SCALE: N.T.S.  
DWG. BY: WLN  
CHK. BY: RW  
DRAWING NO.: D015025  
SHEET 8 OF 8