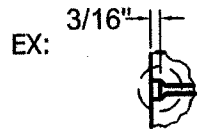
JELD-WEN

JELD-WEN DOOR SYSTEM
FIBERLAST 12'-0" X 8'-0" FULL LITE
OUTSWING/INSWING
IMPACT

GENERAL NOTES

1. THE PRODUCT SHOWN HEREIN IS DESIGNED TO COMPLY WITH THE 2006 EDITIONS OF THE INTERNATIONAL BUILDING CODE (I.B.C.) AND INTERNATIONAL RESIDENTIAL CODE (I.R.C.) WITH THE 2006 TEXAS REVISIONS, EFFECTIVE JANUARY 1, 2008 BASED ON THE SIGNED AND SEALED DATE. PRODUCT HAS BEEN TESTED TO ASTM E330-02, E331-00, E283-04, E1886-05, E1996-05b & AAMA 1304-2.. WIND ZONE (WD) RATING = 4
2. 2X AND 1X WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
3. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. DESIGN PRESSURE RATING SEE TABLE I, PAGE 1.
5. TEXAS APPROVED IMPACT RESISTANCE SHUTTERS ARE NOT REQUIRED.
6. SCALE BASED ON 11x17 SHEET SIZE.
7. ALL 1X & 2X BUCKS TO BE 0.42 SPECIFIC GRAVITY OR GREATER.
8. CONCRETE SUBSTRATES TO BE OF MIN. f'c = 3000 PSI, MASONRY SUBSTRATE TO BE OF MIN. f'c = 1500 PSI.
9. ALL FASTENERS SECURING FRAME (JAMBS AND SILLS) TO 1X OR 2X BUCK SHALL BE COUNTER SUNK BY 3/16".

EX: 

FACE SHEETS: THE FACE SHEETS ARE MADE OF A WOOD/FIBERGLASS COMPOSITE MATERIAL MOLDED TO THE DESIRED DESIGN, AT .120" +/- .015 THICK WITH A DENSITY OF 52 PCF.

CORE DESIGN: THE CORE CONSISTS OF 2 POUND (+/- .25) DENSITY 245FA POLYURETHANE FOAM.

DOOR FRAME CONSTRUCTION: THE HINGE AND LATCH STILES ARE MADE OF PINE AND TREATED WITH AURALAST, A PROPRIETARY TREATMENT FROM JELD-WEN. THE STILES ARE COPED TO ACCEPT THE TOP RAIL, WHICH IS ALSO TREATED PINE, AND THE BOTTOM RAIL WHICH IS MADE OF LAMINATED VENEER LUMBER (LVL) AND CAPPED WITH PVC. ONE (1) STAPLE IS USED AT EACH CORNER TO HOLD THE FRAME TOGETHER PRIOR TO GLUING THE SKINS ON. A 2-13/16" WIDE INTERNAL STILE, MADE OF LVL, RUNS THE FULL LENGTH OF THE DOOR AND SERVES THE FUNCTION OF THE LOCKBLOCK. IT IS SECURED TO THE LATCH STILE WITH 4 STAPLES, EVENLY SPACED ALONG ITS LENGTH.

PANEL CONSTRUCTION: THE COMPOSITE SKINS ARE GLUED TO THE FRAME AND THE CAVITY IS THEN INJECTED WITH THE POLYURETHANE CORE MATERIAL. INSULATED IMPACT GLAZING CONSISTS OF TWO 0.125" ANNEALED GLASS PANELS SANDWICHING A PVB INTERLAYER. A 0.50" AIR SPACE SEPARATES IMPACT GLAZING AND A 0.125" TEMPERED PANEL ON INTERIOR. (SEE GLAZING DETAIL SHEET 9).

SIDELITE CONSTRUCTION: EACH SIDELITE IS CONSTRUCTED THE SAME AS A DOOR PANEL, INCLUDING CORE DESIGN AND FRAME CONSTRUCTION, BUT EXCLUDING THE WIDE INTERNAL STILE (WOOD LOCK BLOCK). INSULATED GLAZING IS SAME AS PANEL CONSTRUCTION . (SEE GLAZING DETAIL SHEET 9).

DOOR SYSTEM CONSTRUCTION: THE FRAME JAMBS AND HEAD ARE CONSTRUCTED OF WOOD. THE OUTSWING SILL IS COMPRISED OF A COMPOSITE MATERIAL W/ ALUMINUM EXTRUSION. THE INSWING SILL IS COMPRISED OF A COMPOSITE MATERIAL WITH ALUMINUM EXTRUSION AND ADJUSTABLE VINYL RISER. TOP CORNERS ARE COPED, BUTTED, AND SEALED USING SILICONE AND FASTENED USING FOUR 16 GA. 7/16" X 2" LONG STAPLES PER CORNER. BOTTOM CORNERS ARE COPED, BUTTED, SEALED USING SILICONE AND FASTENED USING ONE 16 GA. 7/16" X 2" LONG STAPLE AND TWO #8 X 2 1/2" SCREWS. THE VERTICAL MULL POST IS FASTENED THROUGH THE HEAD AND SILL USING THREE #8X2-1/2" SCREWS PER END. AT THE SILL, FOR INSWING PRODUCTS, A 5/8" HOLE IS DRILLED IN THE ALUMINUM RISER AND A RETAINING CAP IS INSTALLED TO RECEIVE THE ASTRAGAL BOLT. ON OUTSWING PRODUCTS, A 3/8" HOLE IS DRILLED AT THE CENTER OF THE FRAME SILL AND A METAL STRIKE PLATE IS FASTENED USING TWO #8 X 3" SCREWS TO RECEIVE THE BOTTOM ASTRAGAL BOLT. AT THE HEAD ON BOTH INSWING AND OUTSWING PRODUCTS, A 3/8" HOLE IS DRILLED AT THE CENTER OF THE FRAME HEAD AND A METAL STRIKE PLATE IS FASTENED USING TWO #8 X 3" SCREWS TO RECEIVE THE TOP ASTRAGAL BOLT. EACH FIXED PANEL IS SECURED INTO THE FRAME USING SIX (6) #8 X 2-1/2" PHILLIPS HEAD WOOD SCREWS FASTENED THROUGH THE JAMBS AND INTO EACH SIDE OF THE PANEL. ALL MULLION JOINERY AND THE FIXED PANELS / FRAME JOINERY ARE SEALED AT THE EXTERIOR USING DOW 1199 SILICONE.

MATERIAL PROTECTION

1. ALL LATCH/LOCK AND HINGE HARDWARE TO BE OF CORROSION RESISTANT MATERIAL OR CORROSION RESISTANT COATED.
2. ANCHORING COMPONENTS MUST MEET THE CORROSION RESISTANT STANDARDS AS IDENTIFIED IN THE FBC.

SHEET INDEX

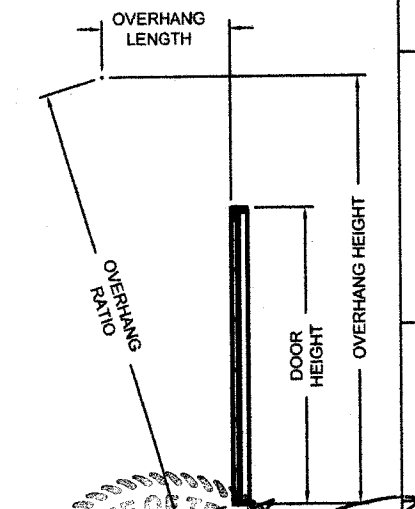
SHEET #	DESCRIPTION
1	GENERAL NOTES
2	INSWING DOOR ELEVATIONS
3	INSWING DOOR ELEVATIONS
4	PARTS LIST & INSWING VERTICAL CROSS SECTIONS
5	INSWING HORIZONTAL & VERTICAL CROSS SECTIONS
6	INSWING HORIZONTAL CROSS SECTIONS
7	OUTSWING DOOR ELEVATIONS
8	OUTSWING DOOR ELEVATIONS
9	OUTSWING VERTICAL CROSS SECTIONS & GLAZING DETAIL
10	OUTSWING HORIZONTAL & VERTICAL CROSS SECTIONS
11	OUTSWING HORIZONTAL CROSS SECTIONS
12	FRAME CONSTRUCTION & FIXED PANEL FASTENING
13	ANCHORING LOCATIONS
14	HINGE ROUTE, ASTRAGAL & LATCH STRIKE PLATE LOCATIONS
15	COMPONENTS

TABLE 1

DESIGN PRESSURE RATING

		WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
		SINGLE DOOR W/ OR W/O SIDLITES & DBL DOOR W/ OR W/O SIDLITES
INSWING	POSITIVE	+ 45*
	NEGATIVE	- 45*
OUTSWING	POSITIVE	+ 45*
	NEGATIVE	- 45*

* NOTE: WHERE WATER INFILTRATION IS REQUIRED, UNIT SHALL BE INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT OVERHANG (OH) RATIO = OH LENGTH ÷ OH HEIGHT IS ≧ 1.0



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Fax (541) 850-2609

PRODUCT: 12'-0" X 8'-0" INSWING/OUTSWING IMPACT FULL LITE FIBERLAST DOOR
PART OR ASSEMBLY: GENERAL NOTES & INDEX

NO.	DATE	REVISIONS	BY

DATE: 06/28/2010
SCALE: NO SCALE
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 1 OF 15

STATE OF TEXAS
ALEXIS SPYROU
102957
LICENSED
PROFESSIONAL ENGINEER

Alexis Spyrou
CertWorks LLC.
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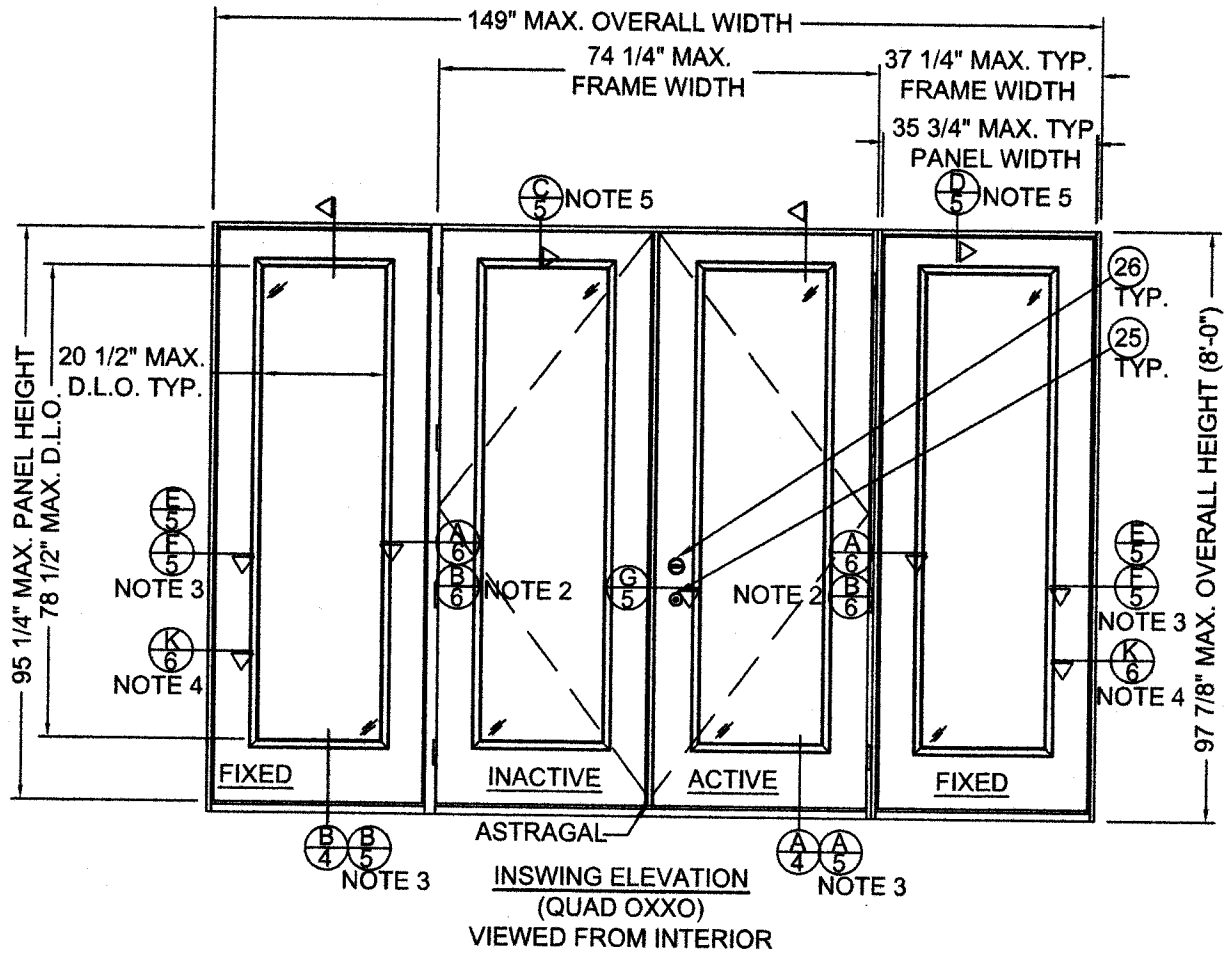
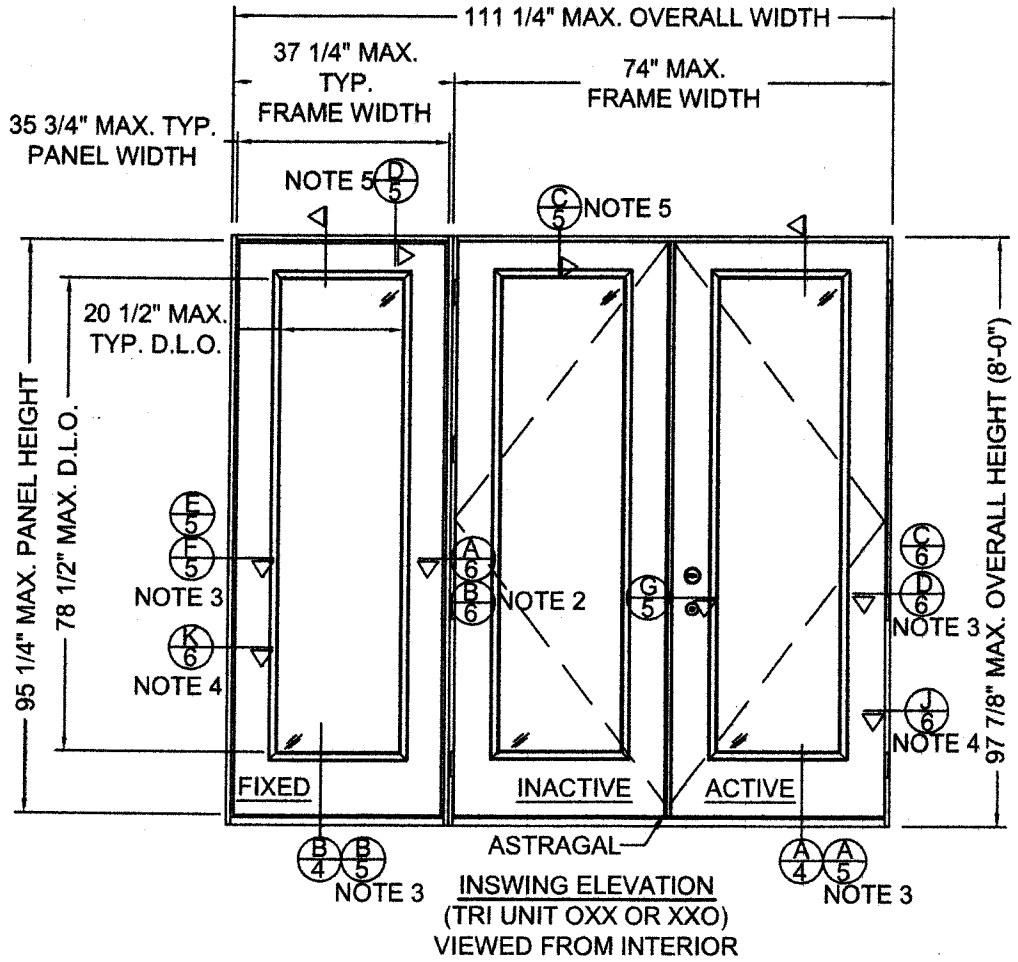
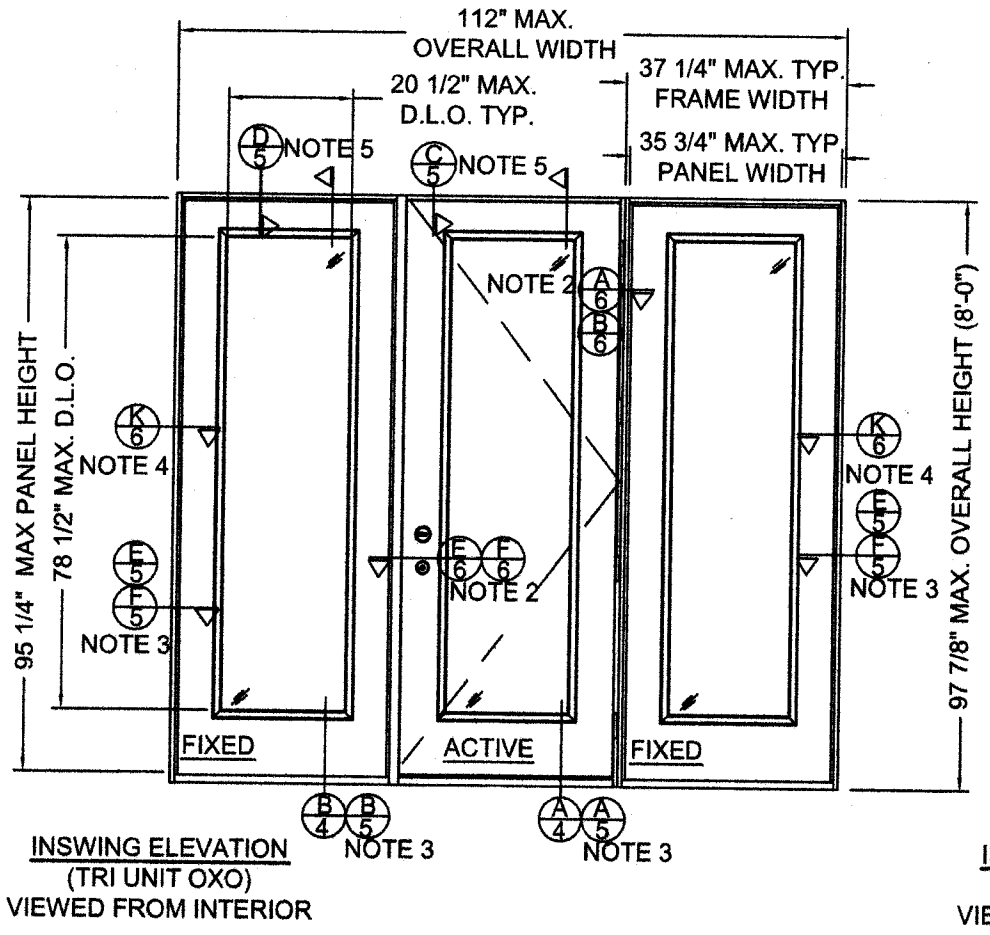
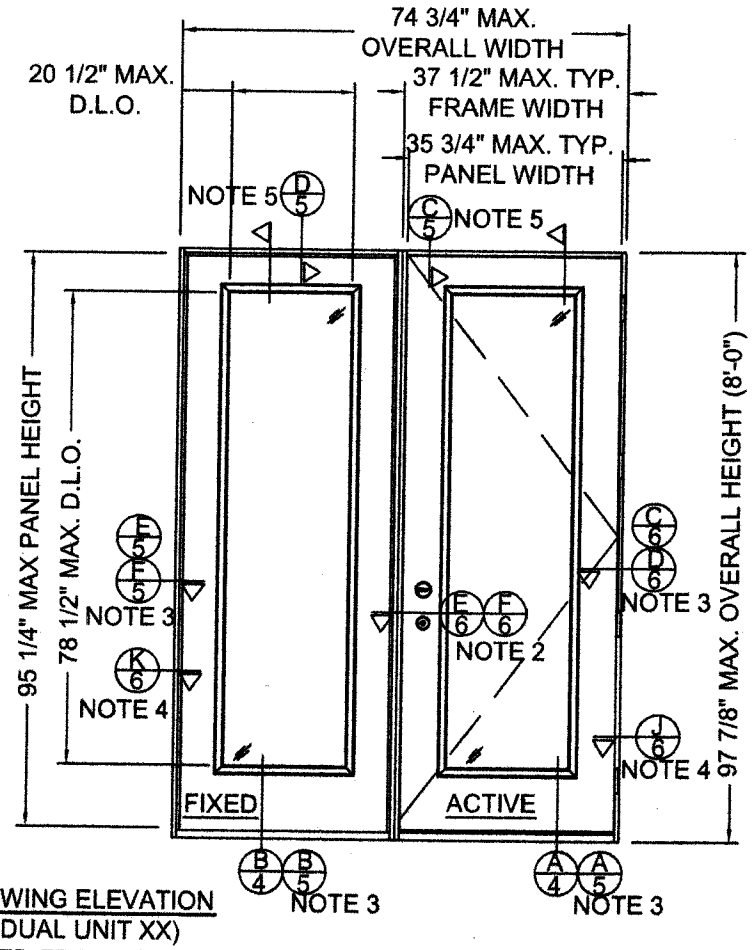
Winter Park, FL 32789









NOTES:
1 - ALL VIEWS FROM INTERIOR.
2 - MULL POSTS & DOUBLE BACK JAMBS ARE INTERCHANGEABLE. (SEE OPTIONAL CROSS SECTIONS, SHEET 6)
3 - MASONRY AND CONCRETE INSTALLATION DETAILS.
4 - FOR HORIZONTAL ANCHOR IN 1X BUCK OPTION IN MASONRY/CONCRETE. SEE SHEET 6 FOR DETAILS.
5 - FOR VERTICAL ANCHOR IN 1X BUCK ORTION IN MASONRY/CONCRETE. SEE SHEET 5 FOR DETAILS.

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PART OR ASSEMBLY: INSWING ELEVATIONS

NO.	DATE	BY	REVISIONS

DATE: 06/28/2010
SCALE: 3/8"=1'-0"
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 2 OF 15

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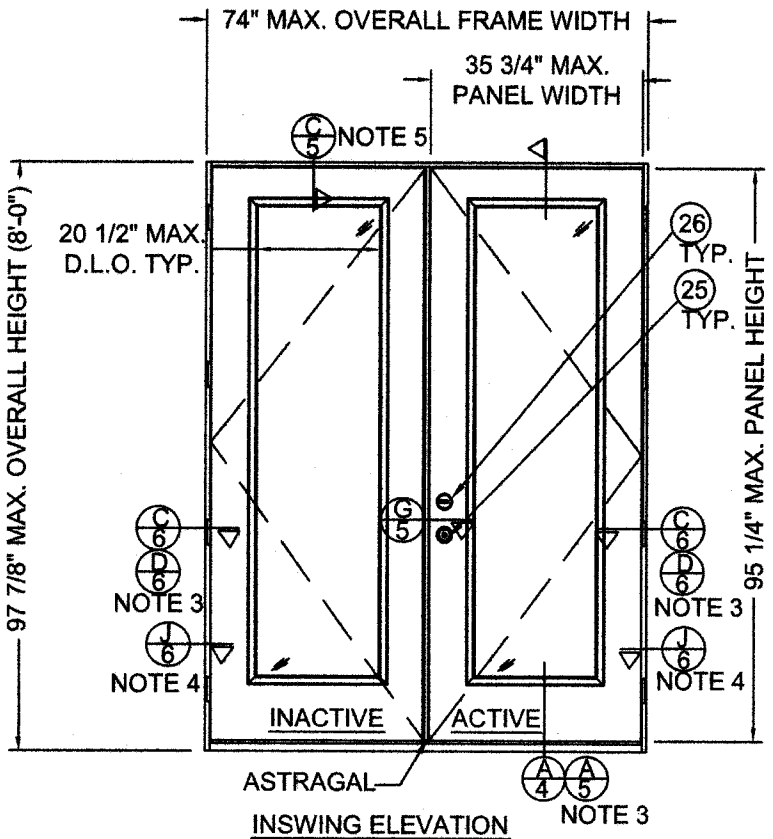
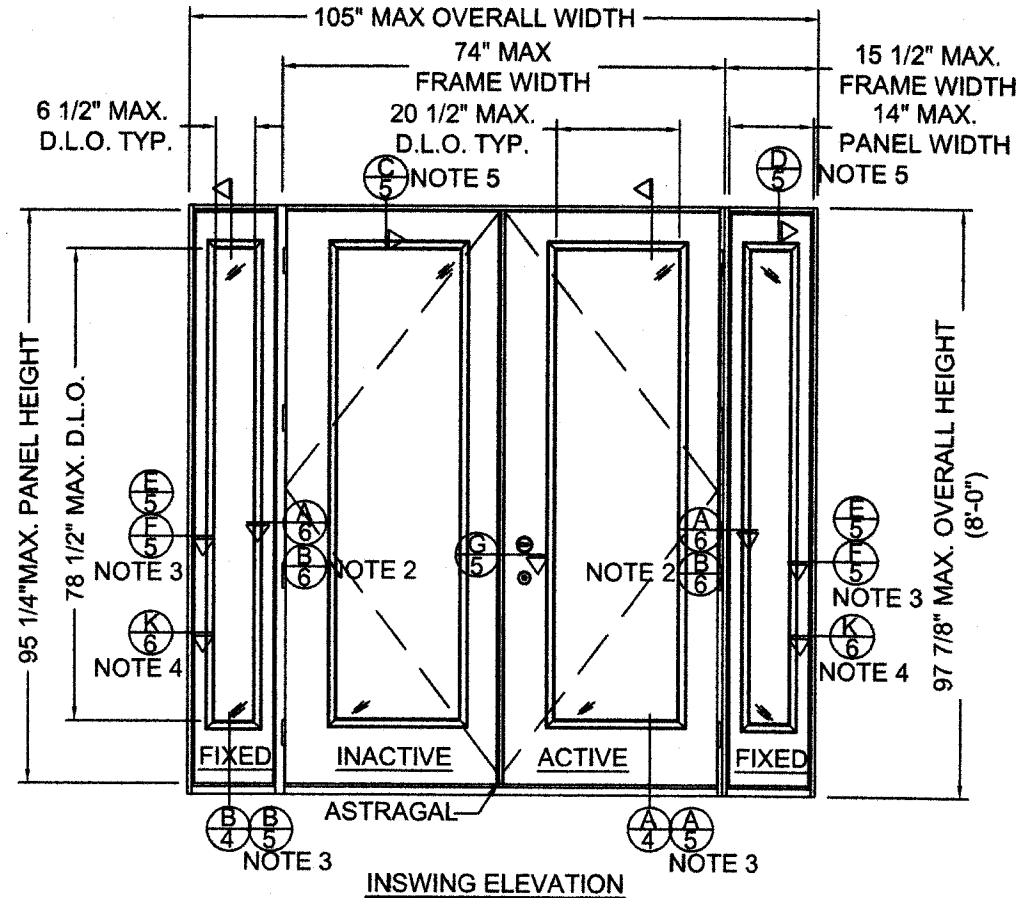
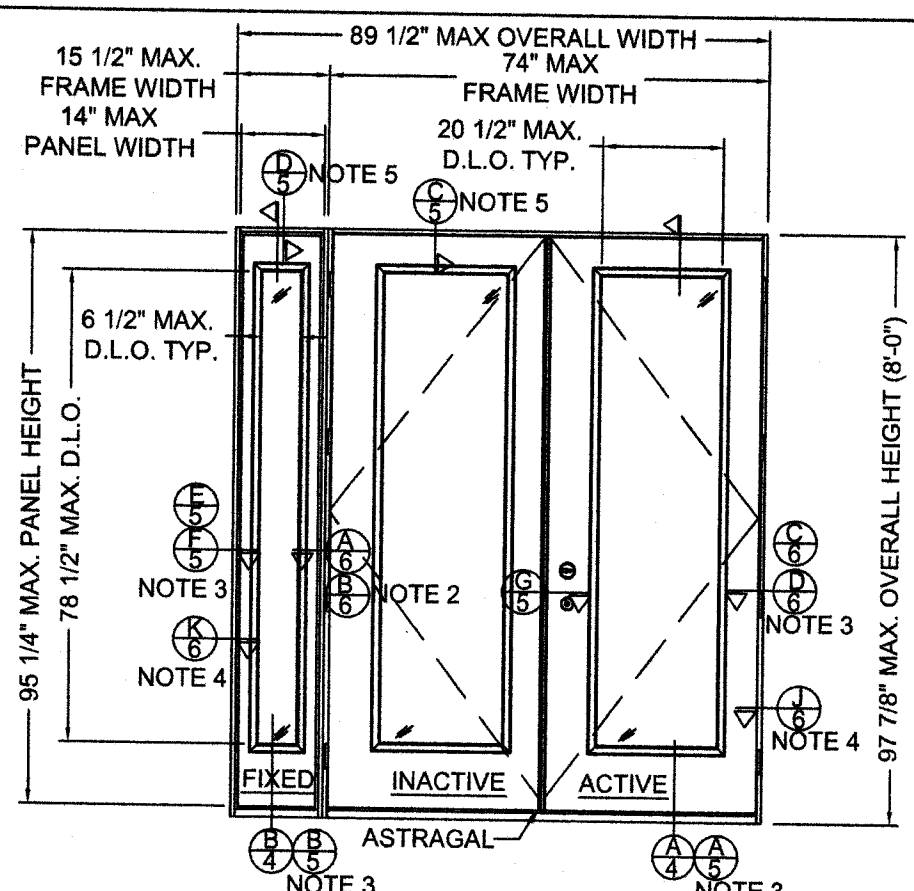


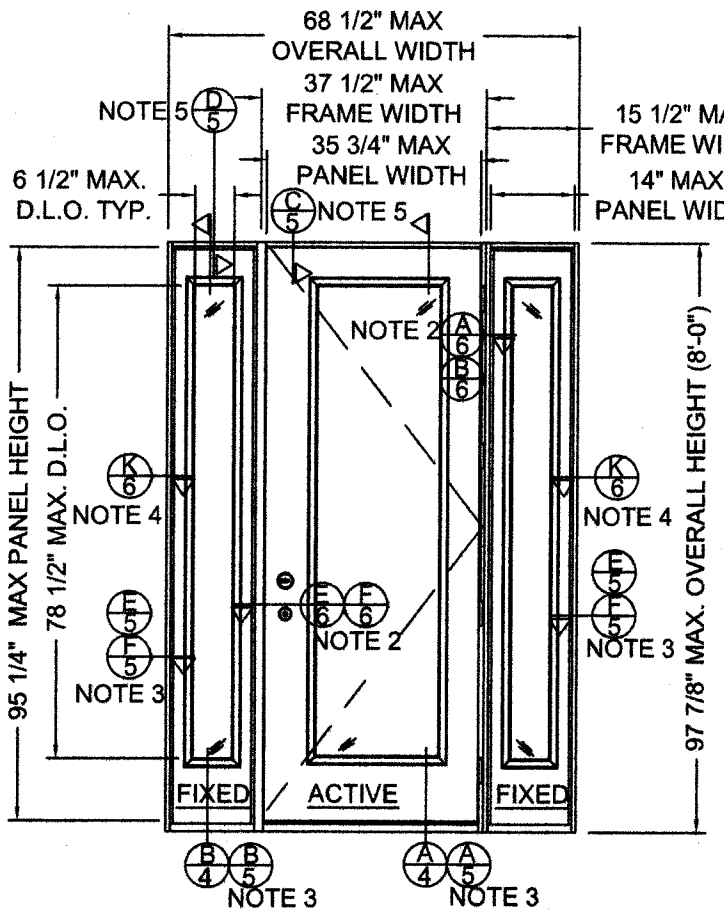
INSWING ELEVATION
(DUAL UNIT XX)
VIEWED FROM INTERIOR



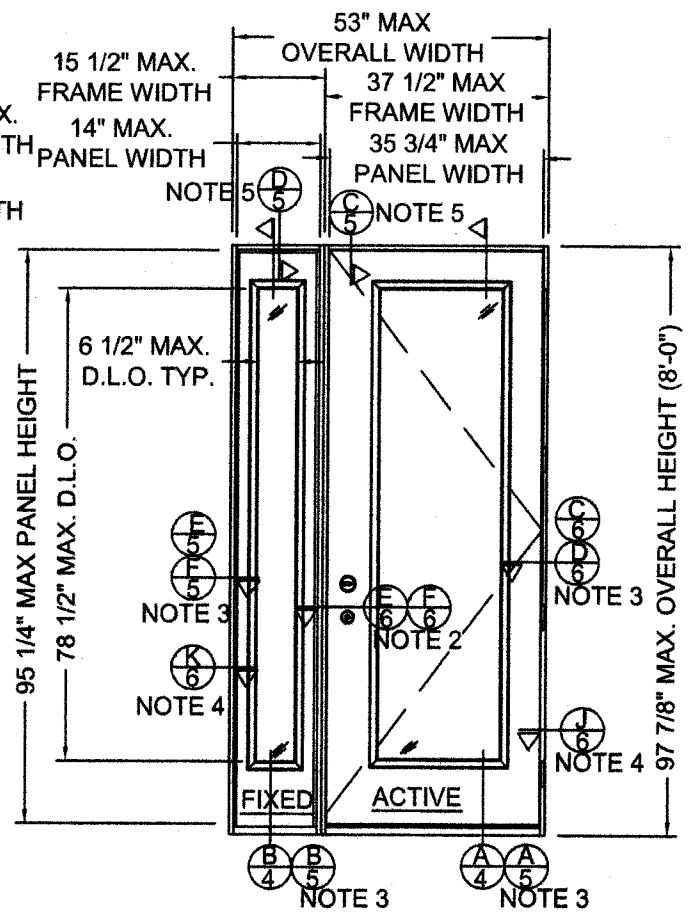
INSWING ELEVATION
(QUAD OXXO)
VIEWED FROM INTERIOR



INSWING ELEVATION
(TRI UNIT OXX OR XXO)
VIEWED FROM INTERIOR



INSWING ELEVATION
(TRI UNIT OXO)
VIEWED FROM INTERIOR



INSWING ELEVATION
(DUAL UNIT OX OR XO)
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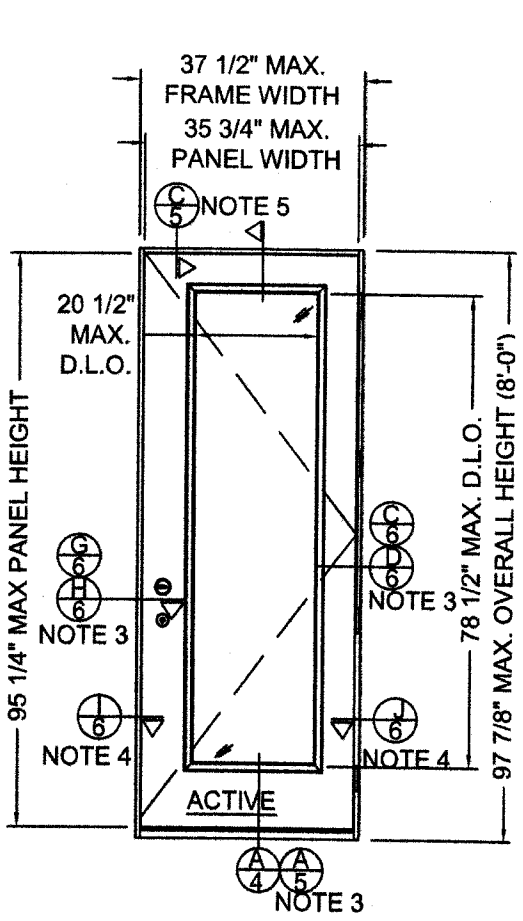

INSWING ELEVATION
(SINGLE UNIT X)
VIEWED FROM INTERIOR

NOTES:
1 - ALL VIEWS FROM INTERIOR.
2 - MULL POSTS & DOUBLE BACK JAMBS ARE INTERCHANGEABLE. (SEE OPTIONAL CROSS SECTIONS, SHEET 6)
3 - MASONRY AND CONCRETE INSTALLATION DETAILS.
4 - FOR HORIZONTAL ANCHOR IN 1X BUCK OPTION IN MASONRY/CONCRETE. SEE SHEET 6 FOR DETAILS.
5 - FOR VERTICAL ANCHOR IN 1X BUCK OPTION IN MASONRY/CONCRETE. SEE SHEET 5 FOR DETAILS.

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PART OR ASSEMBLY: INSWING ELEVATIONS

NO.	DATE	BY	REVISIONS

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SCALE: 3/8"=1'-0"
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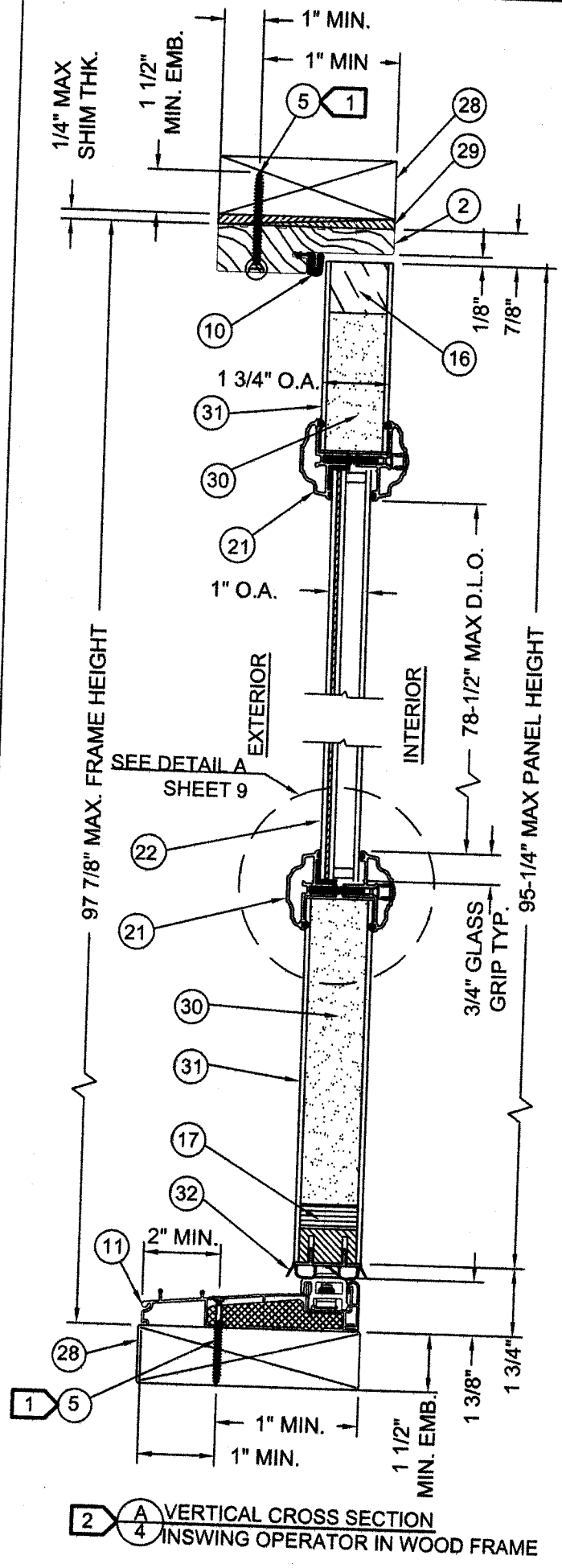
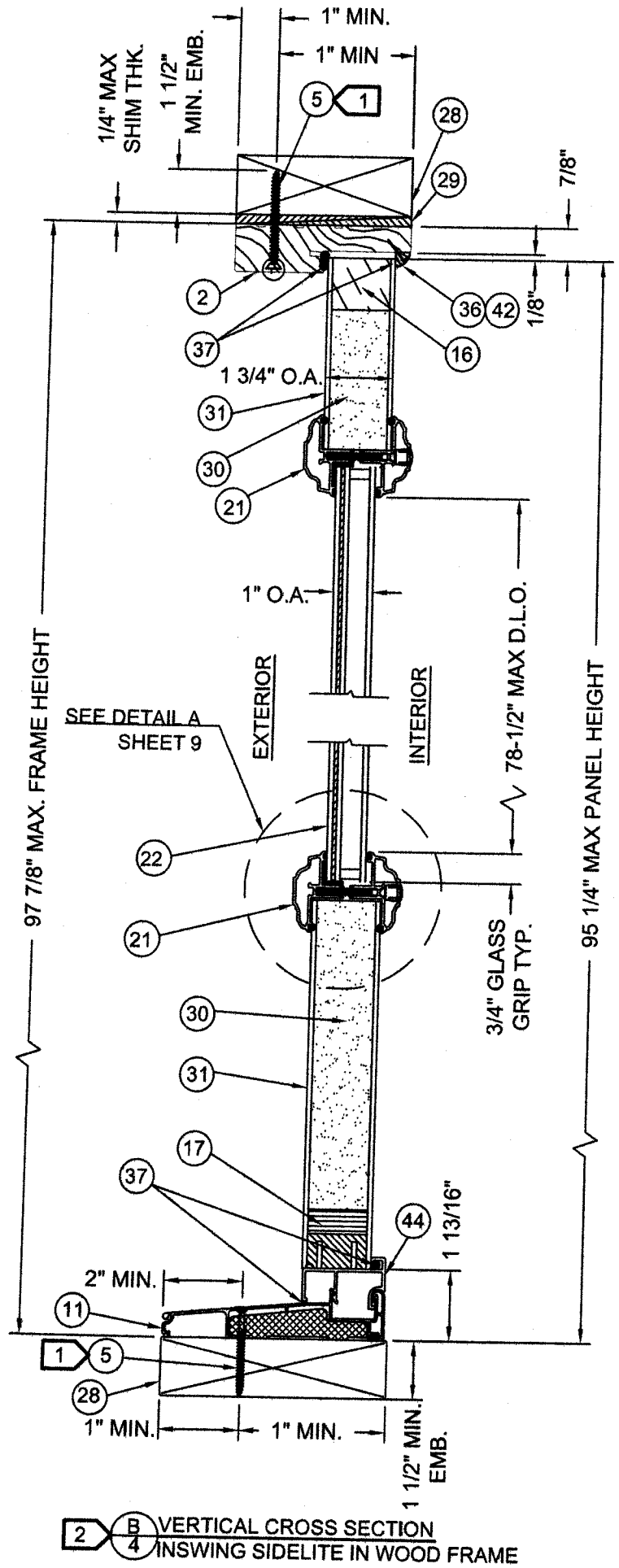
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 3 OF 15



2 A 4 VERTICAL CROSS SECTION
INSWING OPERATOR IN WOOD FRAME



2 B 4 VERTICAL CROSS SECTION
INSWING SIDELITE IN WOOD FRAME

Item	DESCRIPTION	Material
1	HINGE JAMB (FINGERJOINTED PINE)	PINE
2	HEAD JAMB (FINGERJOINTED PINE)	PINE
3	LATCH JAMB (FINGERJOINTED PINE)	PINE
4	SIDELITE JAMB FINGERJOINTED PINE)	PINE
5	#10 PHILLIPS FLATHEAD WOOD SCREW WITH 1 1/2" MIN. EMBEDMENT	STEEL
6	4" x 4" BUTT HINGE 12GA. (.089" MIN)	STEEL
7	#9 x 3/4" PHILLIPS FLATHEAD WOOD SCREW	STEEL
8	#10 x 1 1/2" PHILLIPS FLATHEAD WOOD SCREW	STEEL
9	3/16" ITW BUILDEX TAPCON WITH 1 1/4" MIN. EMBEDMENT	STEEL
10	COMPRESSION WEATHERSTRIP (QEBD-650)	FOAM
11	INSWING THRESHOLD ENDURA MODEL LZAIL5625DSR 6063-T6	ALUMINUM/COMP.
12	#8 x 2 1/2" PHILLIPS HEAD WOOD SCREW	STEEL
13	EXTRUDED ASTRAGAL (ENDURA ULTIMATE HURRICANE) 6063-T6	ALUMINUM
14	#8X 1" FLAT HEAD WOOD SCREW	STEEL
15	ENDURA HURRICANE TOP INSWING/BOTTOM OUTSWING STRIKE PLATE	STEEL
16	TOP RAIL FINGERJOINTED PINE W/ AURALAST	PINE
17	BOTTOM RAIL PVC CAPPED LAMINATED VENEER LUMBER	PVC - LVL
18	HINGE SIDE STILE FINGERJOINTED PINE W/ AURALAST	PINE
19	LATCH SIDE STILE FINGERJOINTED PINE W/ AURALAST	PINE
20	INTERNAL STILE FULL LENGTH LAMINATED VENEER LUMBER	LVL
21	ODL IMPACT FRAME (ALUM 6063 T5)	ALUMINUM
22	1" ODL IMPACT GLAZING	GLASS
23	16 Ga. 7/16" CROWN x 2" LONG STAPLES	STEEL
24	CORRUGATED NAIL 1/2" x 1-1/16"	STEEL
25	KWIKSET LOCK SERIES 400	STEEL
26	KWIKSET DEADBOLT SERIES 660	STEEL
27	#8 x 2" PHILLIPS FLATHEAD WOOD SCREW	STEEL
28	2X W00D BUCK SPRUCE-PINE-FIR MIN. S.G. = 0.42	WOOD
29	NON-COMPRESSION SHIM, 1/4" THICK MAX.	WOOD
30	INJECTED POLYURETHANE (1.75 TO 2.25lbs DENSITY) MFG BY JELD-WEN	FOAM
31	DOOR SKIN FIBERLAST MATERIAL, FIBERGLASS THICKNESS 0.120 NOMINAL	FIBERGLASS
32	INSWING VINYL DOOR BOTTOM SWEEP	VINYL
33	CORNER PAD 2", AT THE BOTTOM OF EACH JAMB LEG/INTERIOR MULLION	FOAM
34	#8 x 3" PHILLIPS FLATHEAD WOOD SCREW	STEEL
35	SOLID MULL POST, LAMINATED VENEER LUMBER (LVL)	WOOD
36	3/8" ROUNDED SCOTIA	WOOD
37	SILICONE BEAD DOW 1199	SILICONE
38	DOUBLE BACK JAMB, LAMINATED VENEER LUMBER (LVL)	LVL
39	OUTSWING THRESHOLD ENDURA MODEL ZOBL5625F 6063-T6	ALUMINUM/COMP.
40	ASTRAGAL THROW BOLT, STEEL ROD, 5/16 DIA. X 18"	STEEL
41	OPTIONAL 1X W00D BUCK GRADE 2 SOUTHERN YELLOW PINE	WOOD
42	1 1/4" BRAD NAIL 18 GA.	STEEL
43	SIDELITE SEAT ENDURA OUTSWING #ZOB-LP	EXTRUDED VINYL
44	SIDELITE SEAT ENDURA INSWING #Z-60-LP	EXTRUDED VINYL
45	ENDURA HURRICANE ASTRAGAL BOLT PLUG	PLASTIC

NOTES:

1 FOR TAPCON MASONRY AND WOOD SCREW ANCHOR SPACING (ITEMS #5 OR #9), SEE SHEET 13. FOR ANCHORS IN WOOD OR CONCRETE/MASONRY, SEE NOTE 8, SHEET 1.

2 OPTIONALLY, ANCHOR CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT IS ACHIEVED

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PRODUCT: 12'-0" X 8'-0" INSWING/OUTSWING IMPACT FULL LITE FIBERLAST DOOR

PART OR ASSEMBLY: INSWING VERTICAL SECTIONS & BILL OF MATERIALS

NO.	DATE	BY	REVISIONS

DATE: 06/28/2010
SCALE: 3"=1'-0"
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 4 OF 15

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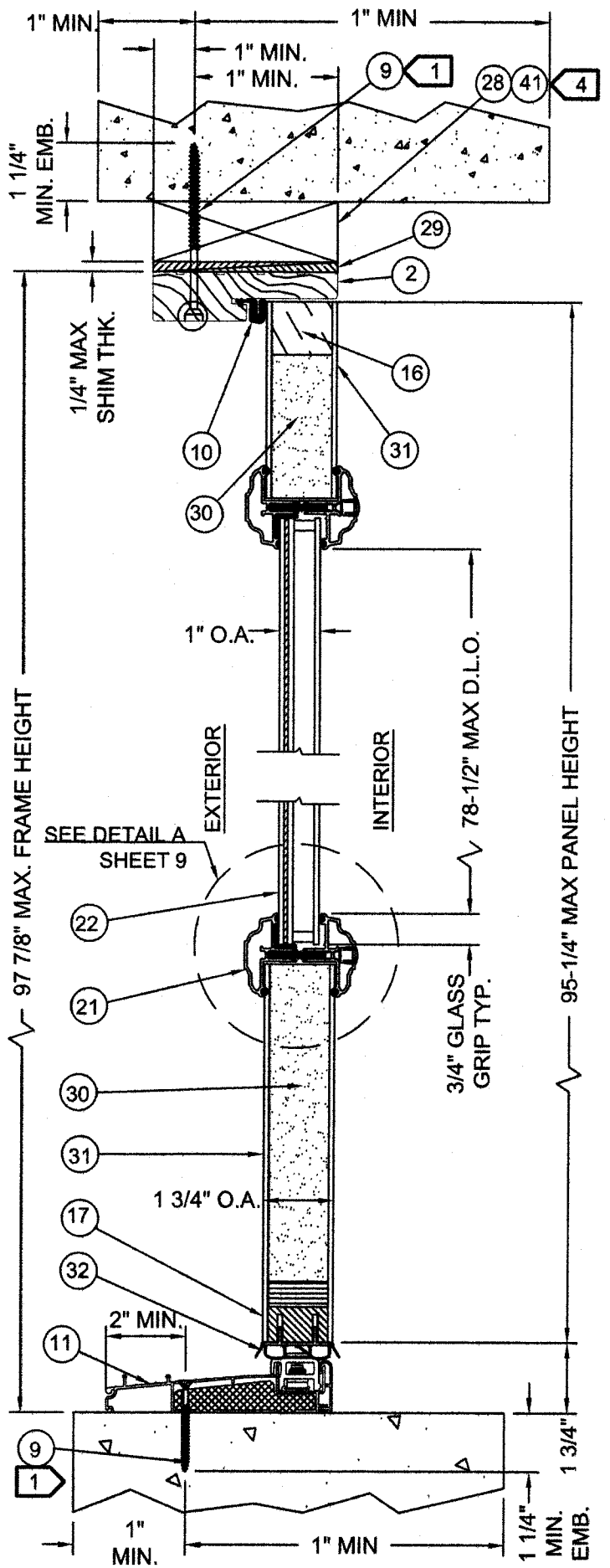
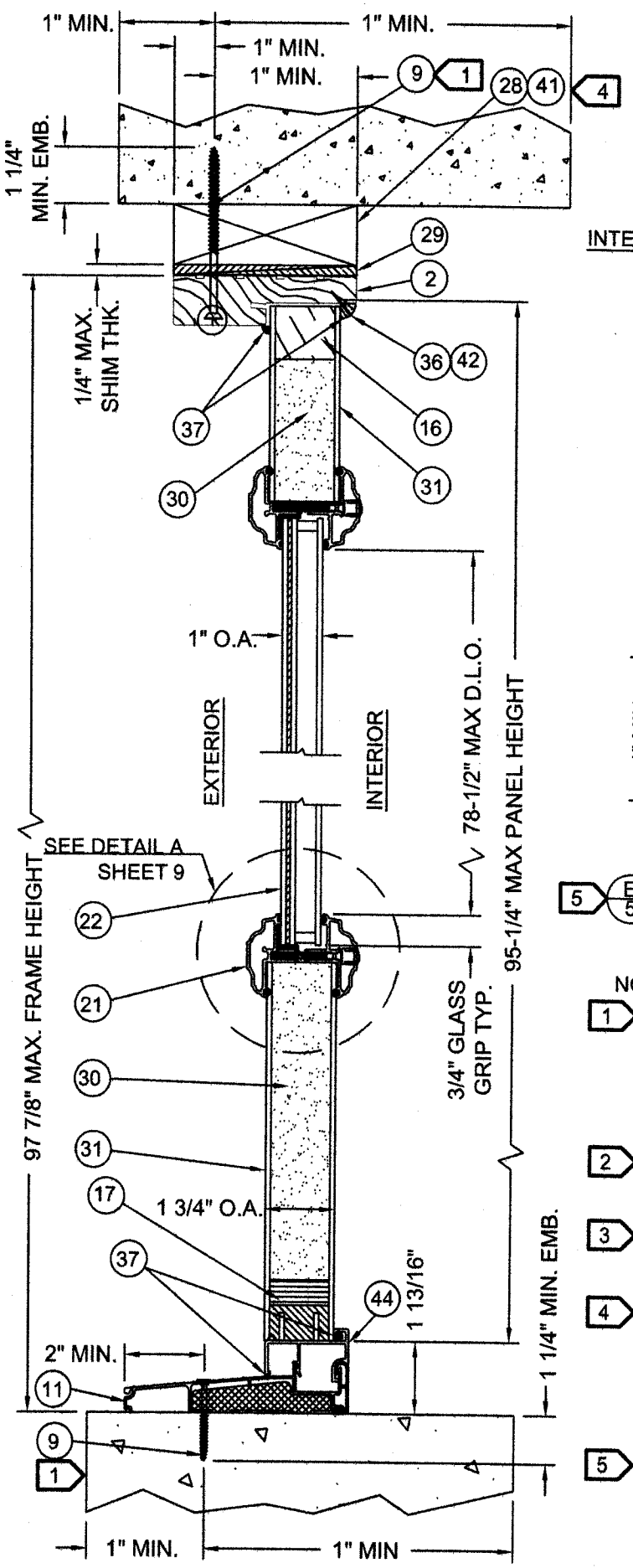
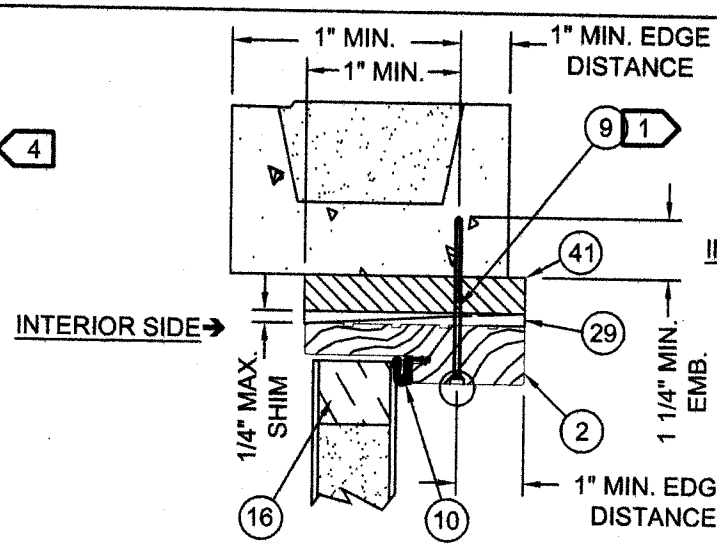
Winter Park, FL 32789



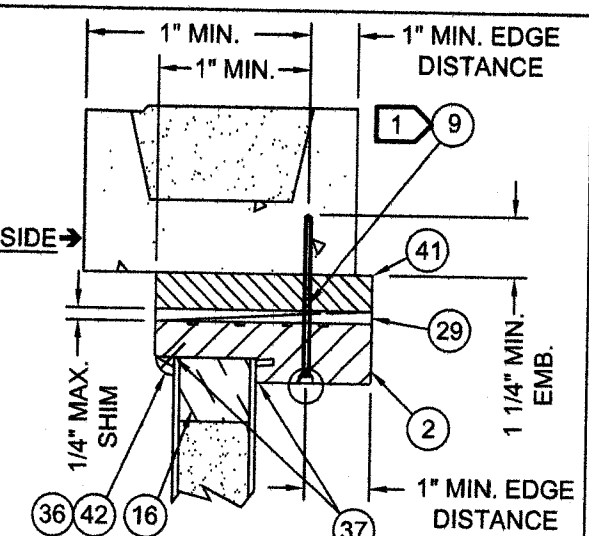
5 A 5 VERTICAL CROSS SECTION
INSWING OPERATOR IN CONCRETE/MASONRY



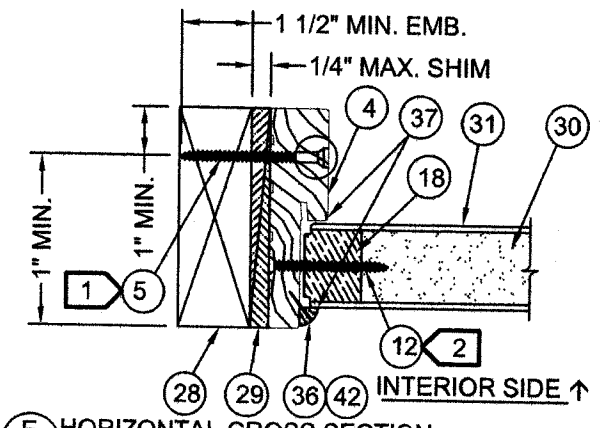
5 B 5 VERTICAL CROSS SECTION
INSWING SIDELITE IN CONCRETE/MASONRY



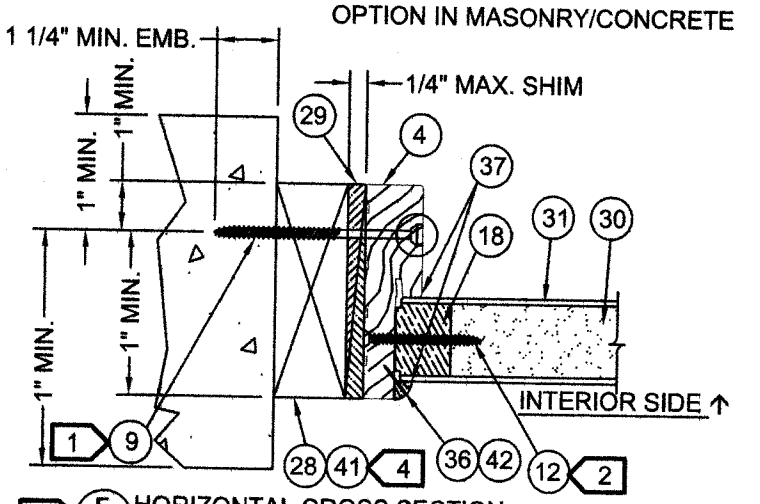
5 C 5 VERTICAL CROSS SECTION
OPERATING UNIT 1X BUCK
OPTION IN MASONRY/CONCRETE



5 D 5 VERTICAL CROSS SECTION
FIXED UNIT 1X BUCK
OPTION IN MASONRY/CONCRETE



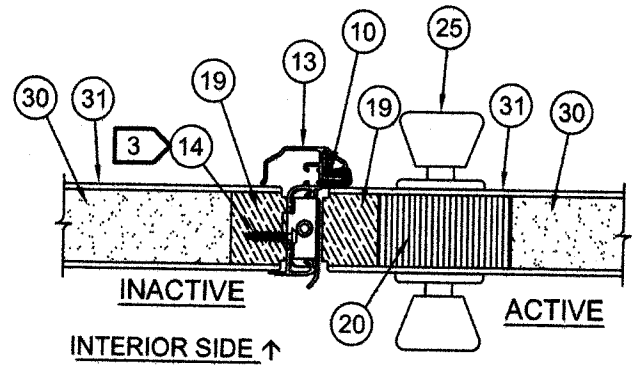
5 E 5 HORIZONTAL CROSS SECTION
WOOD CONSTRUCTION
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



5 F 5 HORIZONTAL CROSS SECTION
MASONRY/CONCRETE INSTALL
(LEFT SECTION SHOWN, RIGHT SECTION OPPOSITE)

NOTES:

1. FOR TAPCON MASONRY AND WOOD SCREW ANCHOR SPACING ITEMS #5 OR #9), SEE SHEET 13. FOR ANCHORS IN WOOD OR CONCRETE/ MASNORY, SEE NOTE 8 SHEET 1.
2. SPACING FOR #12 FROM TOP OF SIDELITE DOWN (SEE SHEET 12).
3. ASTRAGAL SCREW PATTERN SPACING FOR #13 (SEE SHEET 14).
4. 1X BUCK MAY BE UTILIZED AS AN OPTION. FOR VERTICAL SECTIONS, SEE DETAILS C/5 D/5 SHEET 5.
   HORIZONTAL SECTIONS: DETAILS I/6 J/6 K/6 SHEET 6.
5. OPTIONALLY, ANCHOR CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT IS ACHIEVED.



G 5 HORIZONTAL CROSS SECTION
ASTRAGAL

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PRODUCT: 12'-0" X 8'-0" INSWING/OUTSWING IMPACT FULL LITE FIBERLAST DOOR
PART OR ASSEMBLY: INSWING VERTICAL & HORIZONTAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

Alexis Spyrou
CertWorks LLC.
Texas P.E. No. 102957
127 W. Fairbanks Ave. Ste. 438
Winter Park, FL 32789

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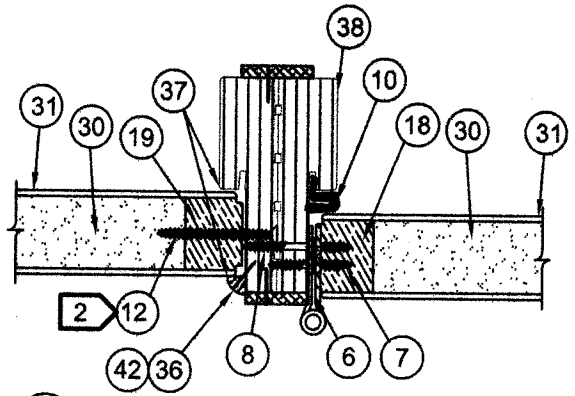
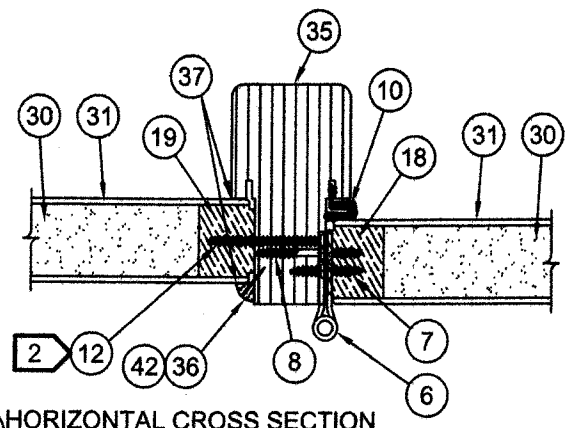
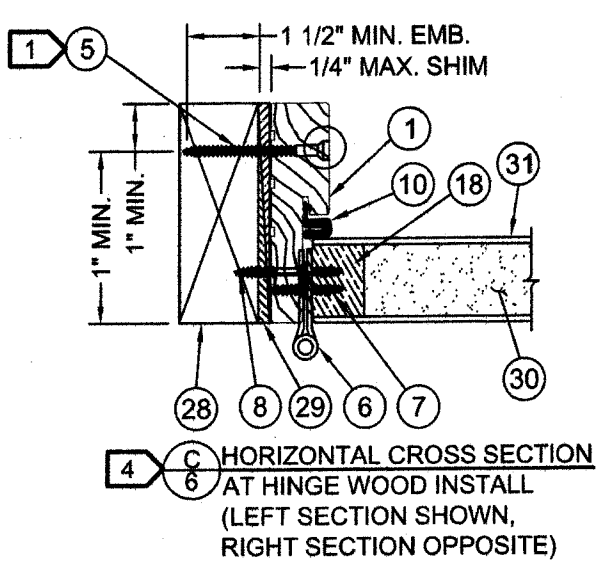
DRAWING NO.: JW122010
SHEET 5 OF 15



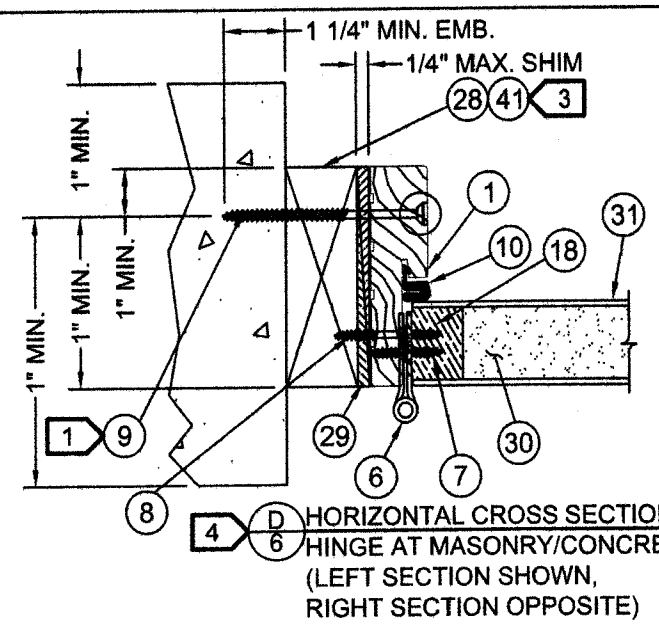
A/6 HORIZONTAL CROSS SECTION
HINGE AT DOUBLE BACK JAMB
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



B/6 HORIZONTAL CROSS SECTION
HINGE AT SOLID MULL POST
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)

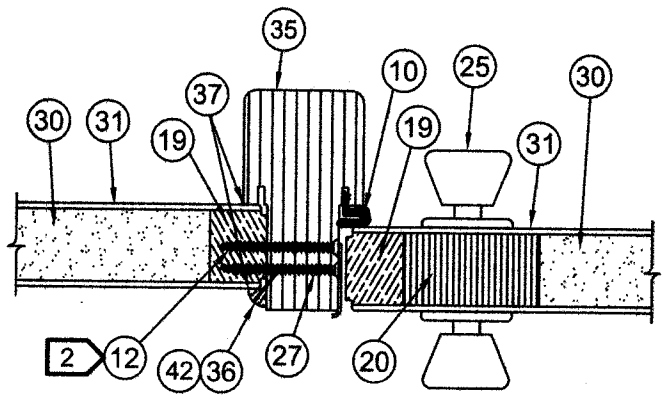


4 C/6 HORIZONTAL CROSS SECTION
AT HINGE WOOD INSTALL
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)

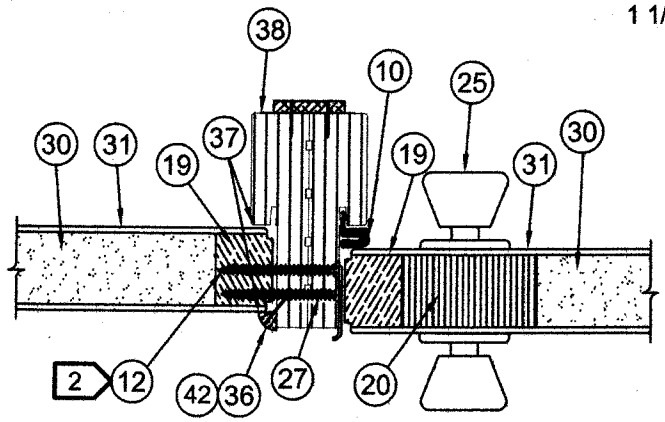


4 D/6 HORIZONTAL CROSS SECTION
HINGE AT MASONRY/CONCRETE INSTALL
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)

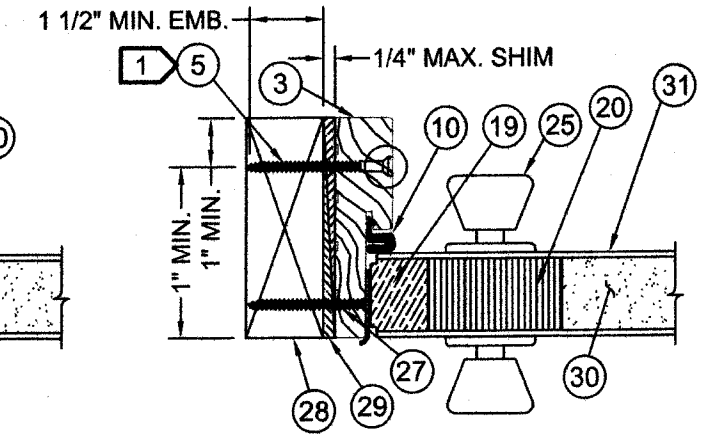
↓EXTERIOR SIDE↓



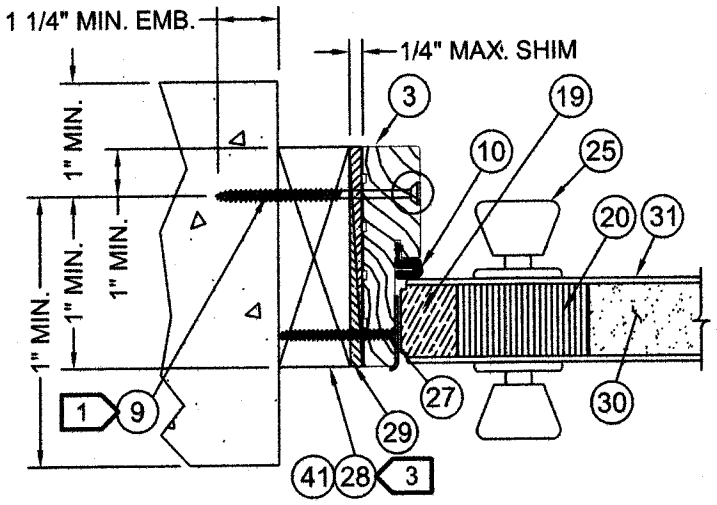
E/6 HORIZONTAL CROSS SECTION
SIDELITE AT MULL (SOLID) POST
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



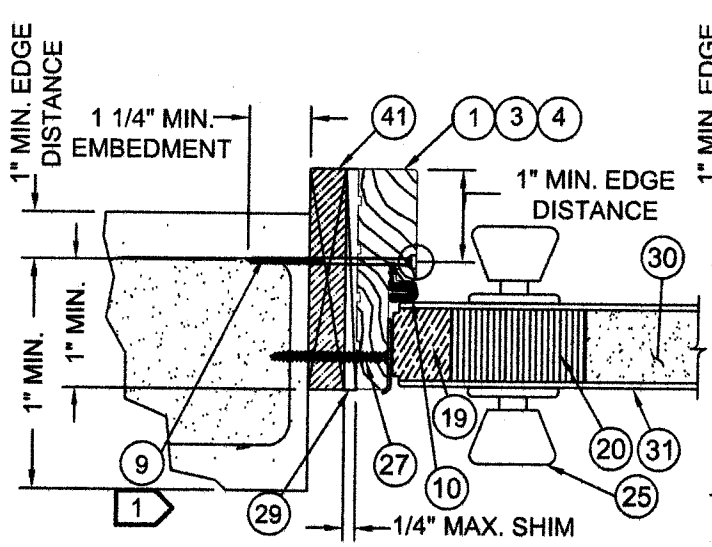
F/6 HORIZONTAL CROSS SECTION
SIDELITE AT DOUBLE BACK JAMB
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



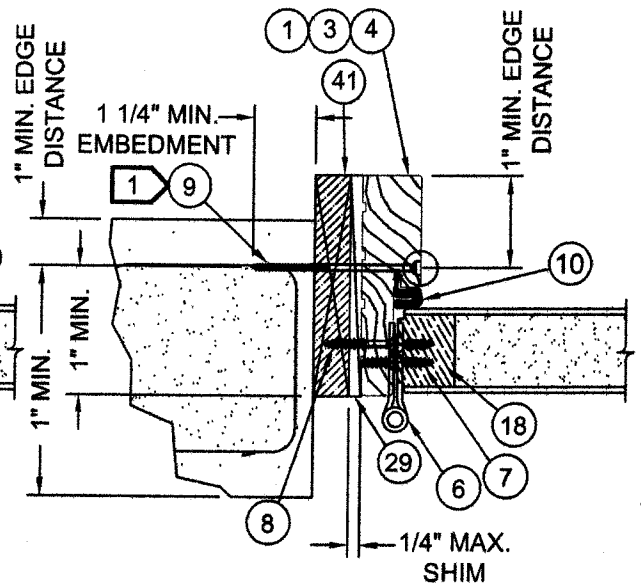
4 G/6 HORIZONTAL CROSS SECTION
HAND SET WOOD INSTALL
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



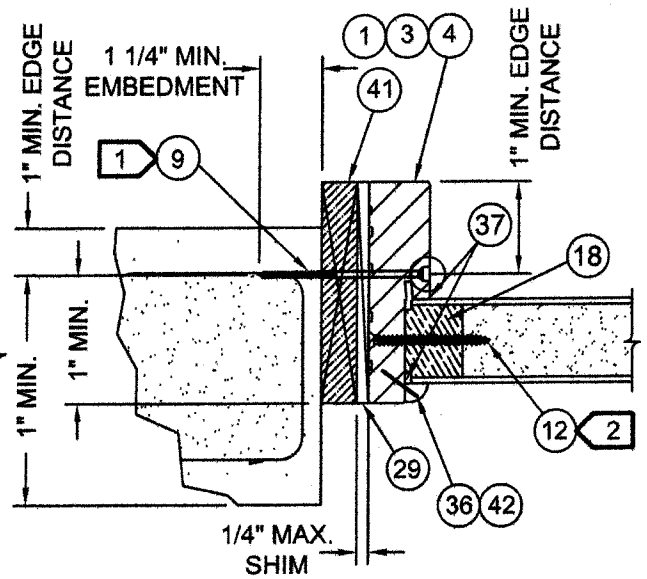
4 H/6 HORIZONTAL CROSS SECTION
HAND SET CONCRETE/MASONRY INSTALL
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



4 I/6 HORIZONTAL CROSS SECTION
OPERATING UNIT 1X BUCK
OPTION IN MASONRY/CONCRETE
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



4 J/6 HORIZONTAL CROSS SECTION
OPERATING UNIT 1X BUCK
OPTION IN MASONRY/CONCRETE
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



4 K/6 HORIZONTAL CROSS SECTION
FIXED UNIT 1X BUCK
OPTION IN MASONRY/CONCRETE
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)

NOTES:

1. FOR TAPCON MASONRY AND WOOD SCREW ANCHOR SPACING (ITEMS #5 OR #9), SEE SHEET 13. FOR ANCHORS IN WOOD OR CONCRETE/ MASNORY, SEE NOTE 8 SHEET 1.
2. SPACING FOR #12 FROM TOP OF SIDELITE DOWN (SEE SHEET 12).
3. 1X BUCK MAY BE UTILIZED AS AN OPTION. FOR VERTICAL SECTIONS, SEE DETAILS C/5 D/5 SHEET 5. HORIZONTAL SECTIONS: DETAILS I/6 J/6 K/6 SHEET 6.
4. OPTIONALLY, ANCHOR CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT IS ACHIEVED.

JELD-WEN
Research and Development
3737 Lakeport Blvd.
Klamath Falls, Oregon 97601
Ph. (541) 882-3451
Fax (541) 850-2609

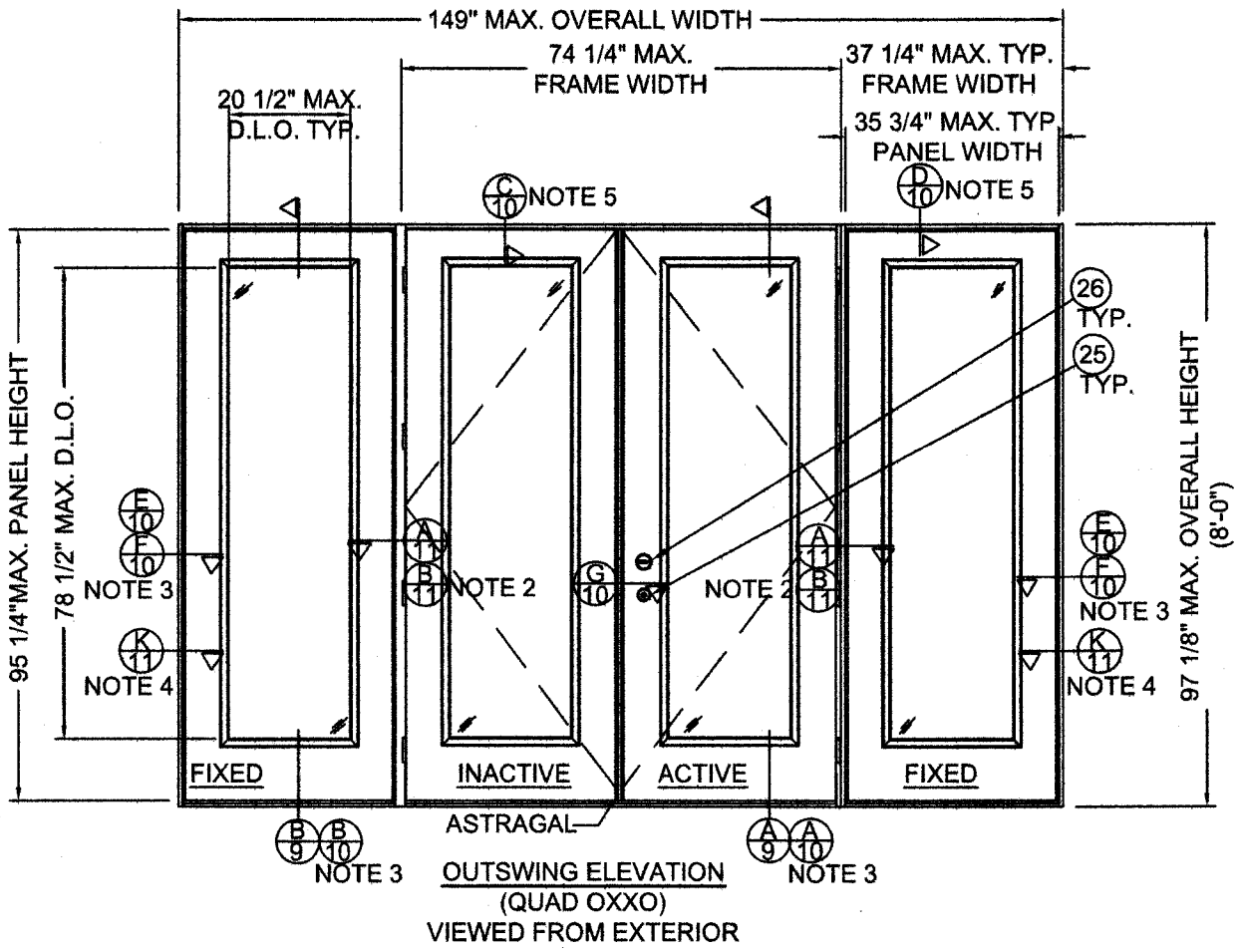
PRODUCT: 12'-0" X 8'-0" INSWING/OUTSWING IMPACT FULL LITE FIBERLAST DOOR

PART OR ASSEMBLY: INSWING HORIZONTAL CROSS SECTIONS

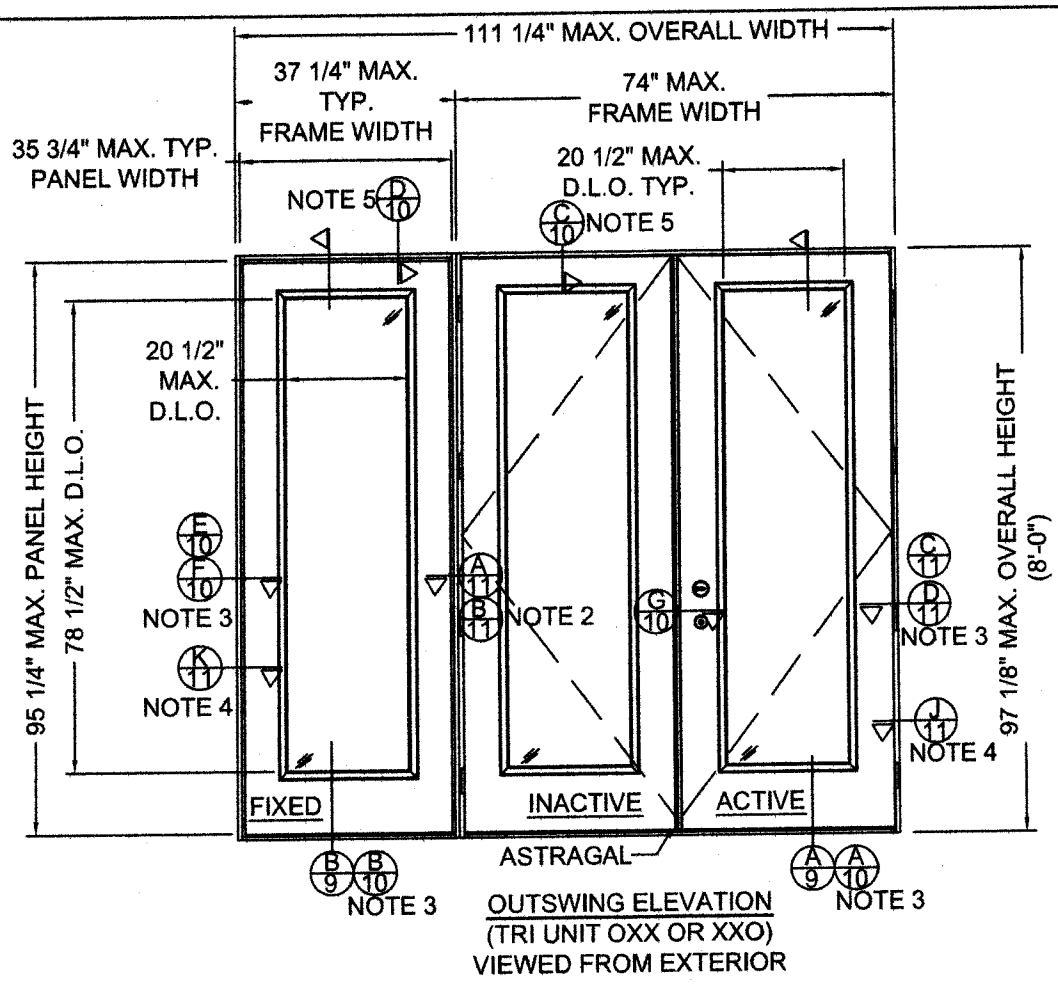
NO.	DATE	REVISIONS	BY

DATE: 06/28/2010
SCALE: 3"=1'-0"
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 6 OF 15

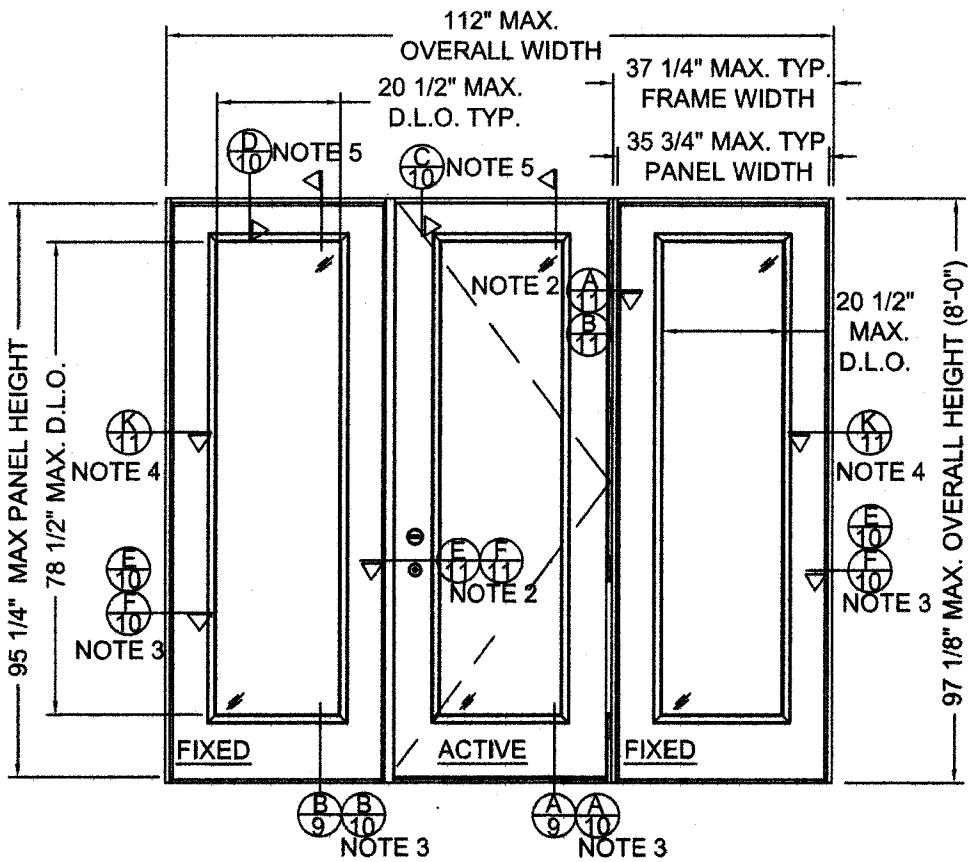
Alexis Spyrou
CertWorks LLC.
Texas P.E. No. 102957
127 W. Fairbanks Ave. Ste. 438
Winter Park, FL 32789



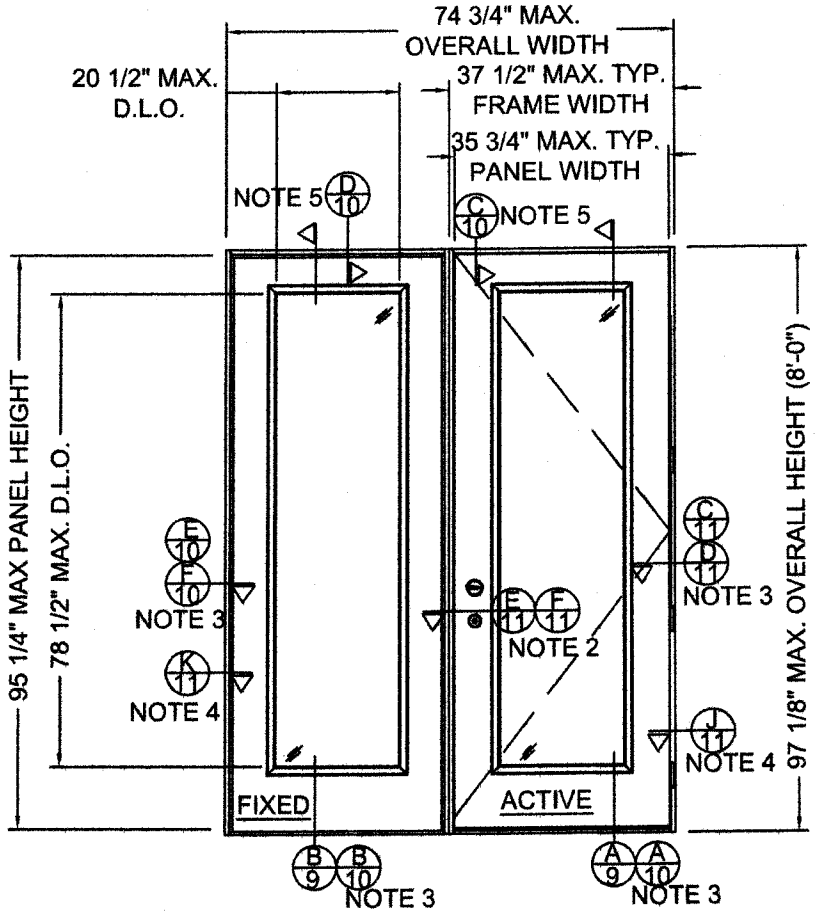
OUTSWING ELEVATION
(QUAD OXXO)
VIEWED FROM EXTERIOR



OUTSWING ELEVATION
(TRI UNIT OXX OR XXO)
VIEWED FROM EXTERIOR



OUTSWING ELEVATION
(TRI UNIT OXO)
VIEWED FROM EXTERIOR



OUTSWING ELEVATION
(DUAL UNIT OX OR XO)
VIEWED FROM EXTERIOR

NOTES:
1 - ALL VIEWS FROM EXTERIOR.
2 - MULL POSTS & DOUBLE BACK JAMBS ARE INTERCHANGEABLE. (SEE OPTIONAL CROSS SECTIONS, SHEET 11)
3 - MASONRY AND CONCRETE INSTALLATION DETAILS.
4 - FOR HORIZONTAL ANCHOR IN 1X BUCK OPTION IN MASONRY/CONCRETE. SEE SHEET 11 FOR DETAILS.
5 - FOR VERTICAL ANCHOR IN 1X BUCK OPTION IN MASONRY/CONCRETE. SEE SHEET 10 FOR DETAILS.

JELD-WEN.
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Klamath Falls, Oregon 97601
Ph. (541) 882-3451
Fax (541) 850-2609

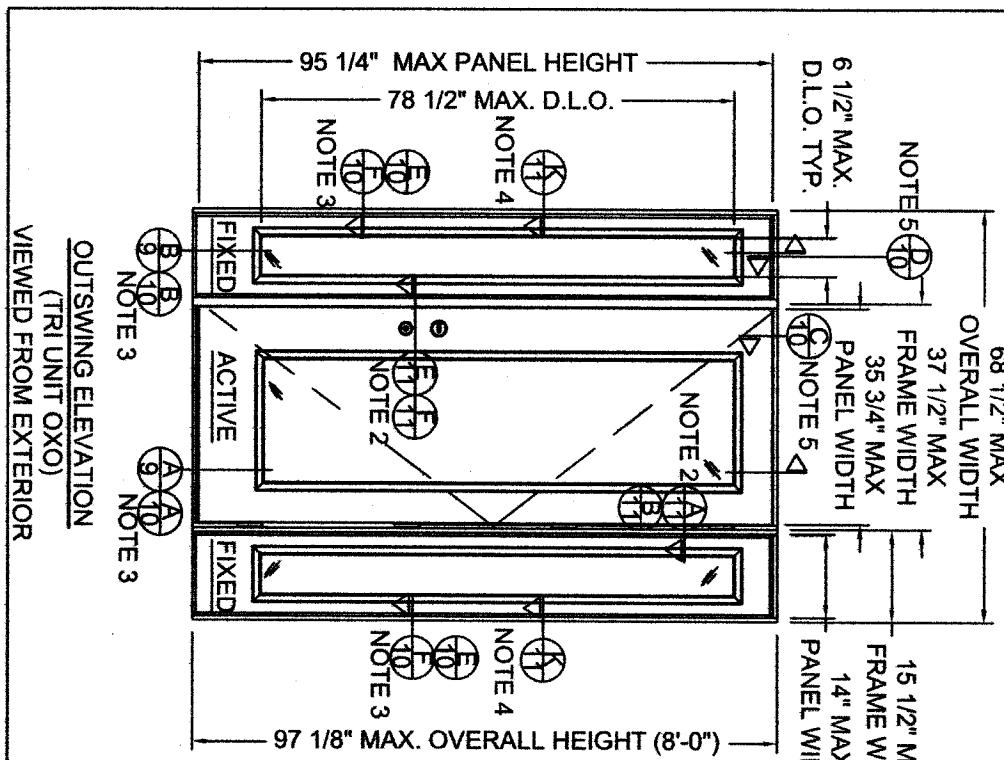
PRODUCT: 12'-0" X 8'-0" INSWING/OUTSWING IMPACT FULL LITE FIBERLAST DOOR

PART OR ASSEMBLY: OUTSWING ELEVATIONS

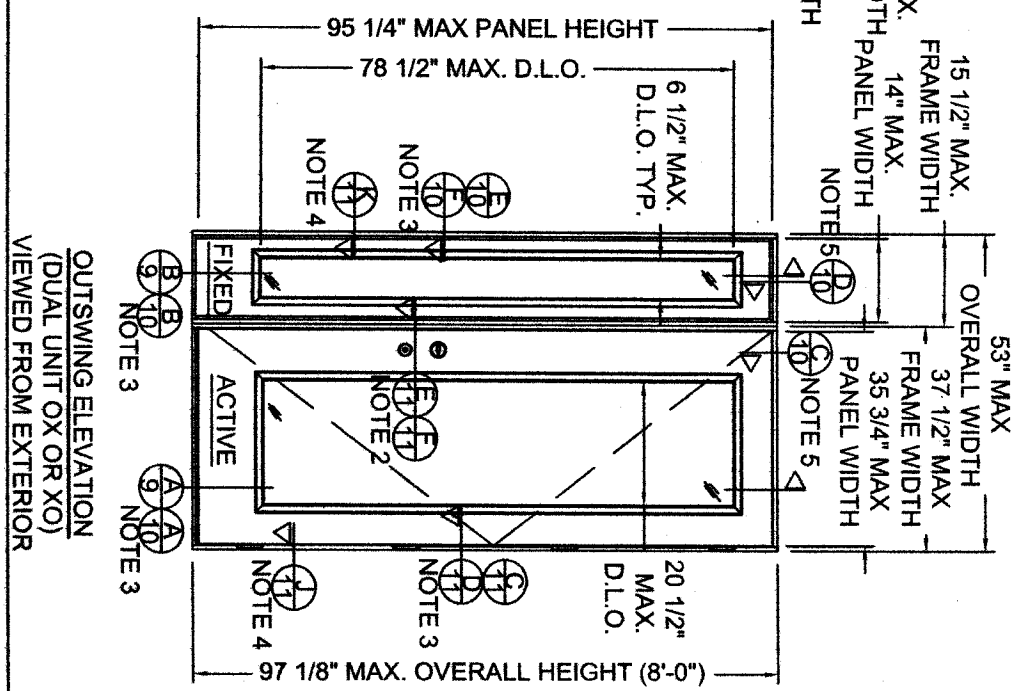
NO.	DATE	BY	REVISIONS

DATE: 06/28/2010
SCALE: 3/8"=1'-0"
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 7 OF 15

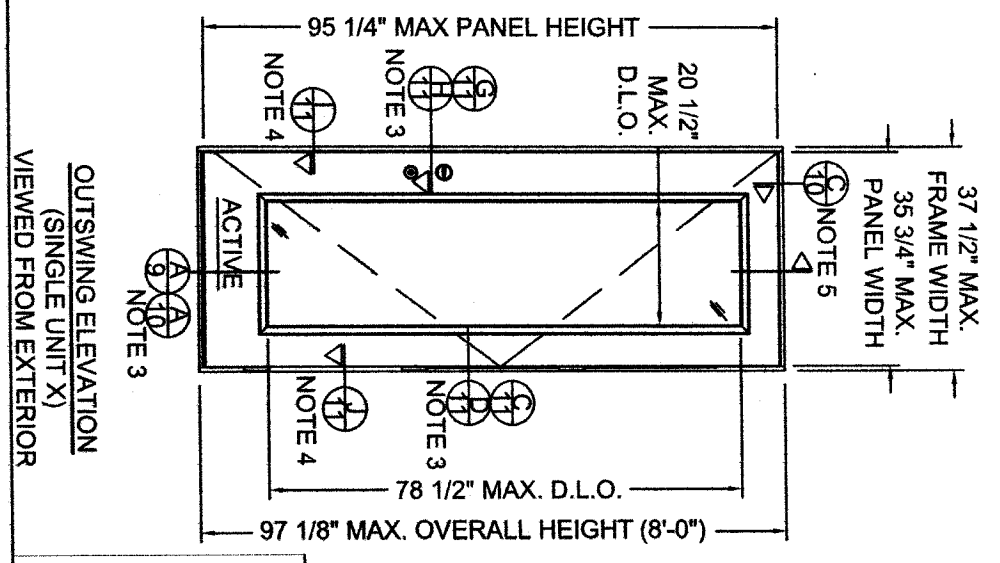
Alexis Spyrou
CertWorks LLC.
Texas P.E. No. 102957
127 W. Fairbanks Ave. Ste. 438
Winter Park, FL 32789



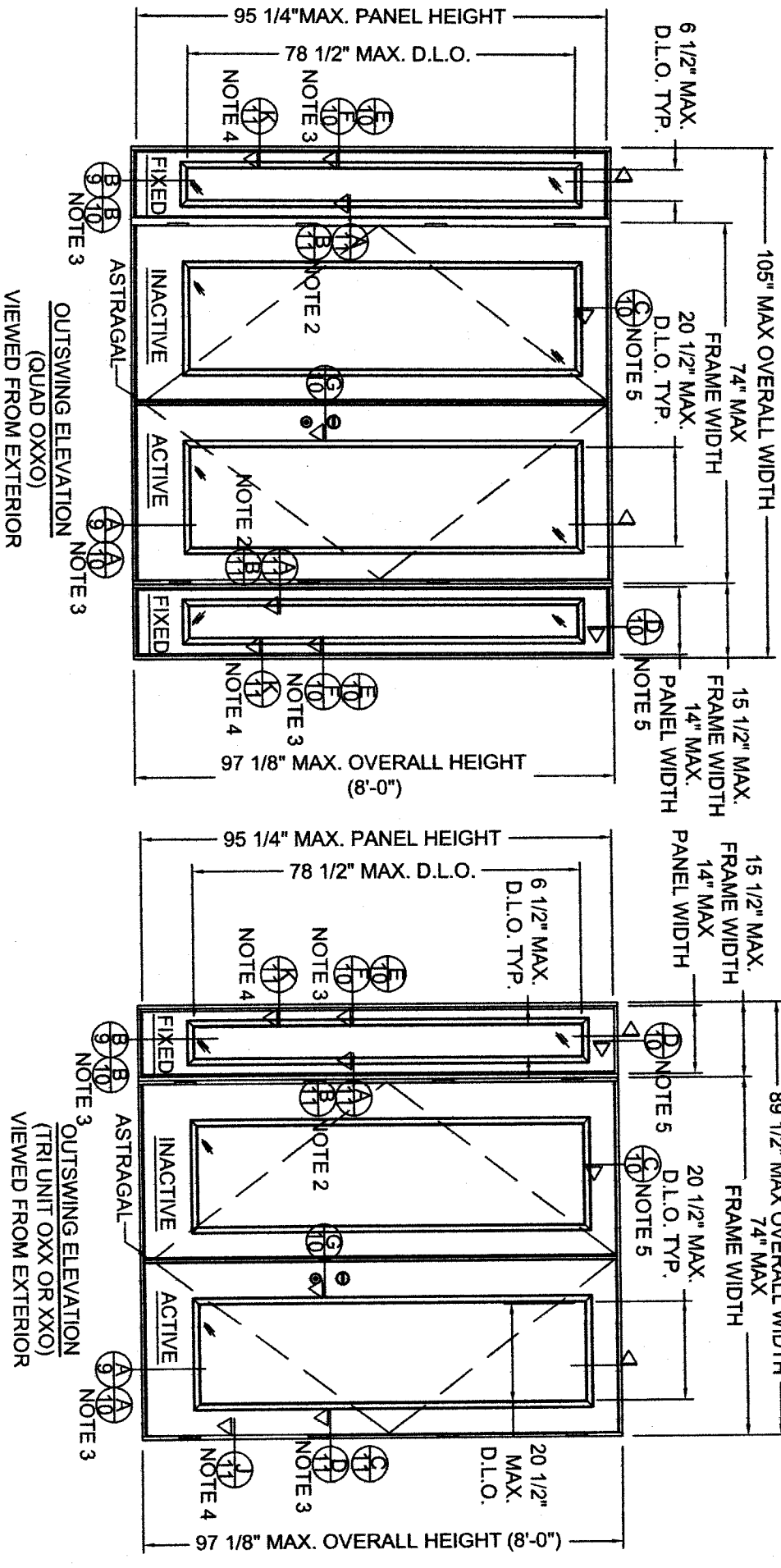
OUTSWING ELEVATION
(TRI UNIT OXO)
VIEWED FROM EXTERIOR



OUTSWING ELEVATION
(DUAL UNIT OX OR XO)
VIEWED FROM EXTERIOR



OUTSWING ELEVATION
(SINGLE UNIT X)
VIEWED FROM EXTERIOR



OUTSWING ELEVATION
(QUAD OXXO)
VIEWED FROM EXTERIOR

OUTSWING ELEVATION
(TRI UNIT OXX OR XXO)
VIEWED FROM EXTERIOR

OUTSWING ELEVATION
(DUAL UNIT XX)
VIEWED FROM EXTERIOR

NOTES:
1 - ALL VIEWS FROM EXTERIOR.
2 - MULL POSTS & DOUBLE BACK JAMBS ARE INTERCHANGEABLE. (SEE OPTIONAL CROSS SECTIONS, SHEET 11)
3 - MASONRY AND CONCRETE INSTALLATION DETAILS.
4 - FOR HORIZONTAL ANCHOR IN 1X BUCK OPTION IN MASONRY/CONCRETE. SEE SHEET 11 FOR DETAILS.
5 - FOR VERTICAL ANCHOR IN 1X BUCK OPTION IN MASONRY/CONCRETE. SEE SHEET 10 FOR DETAILS.

Alexis Spyrou
CertWorks LLC.
Texas P.E. No. 102957
127 W. Fairbanks Ave. Ste. 438
Winter Park, FL 32789

NO.	DATE		BY

REVISIONS

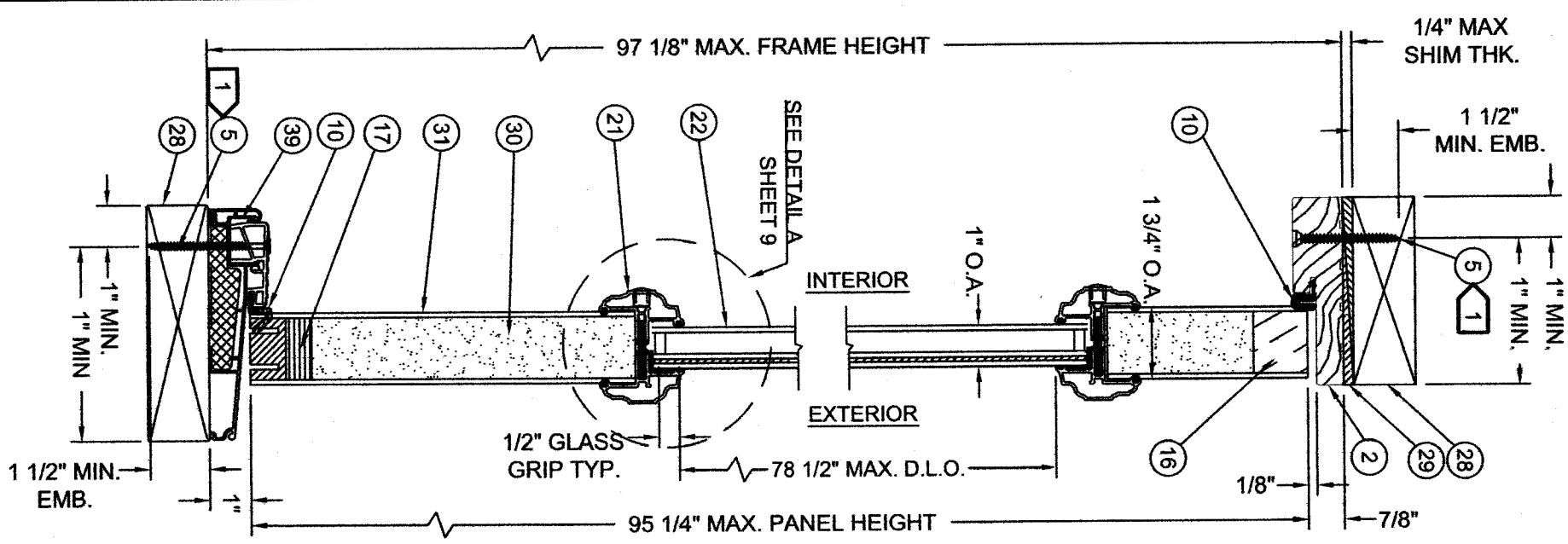
PRODUCT:
12'-0" X 8'-0" INSWING/OUTSWING
IMPACT FULL LITE FIBERLAST DOOR

PART OR ASSEMBLY:
OUTSWING ELEVATIONS

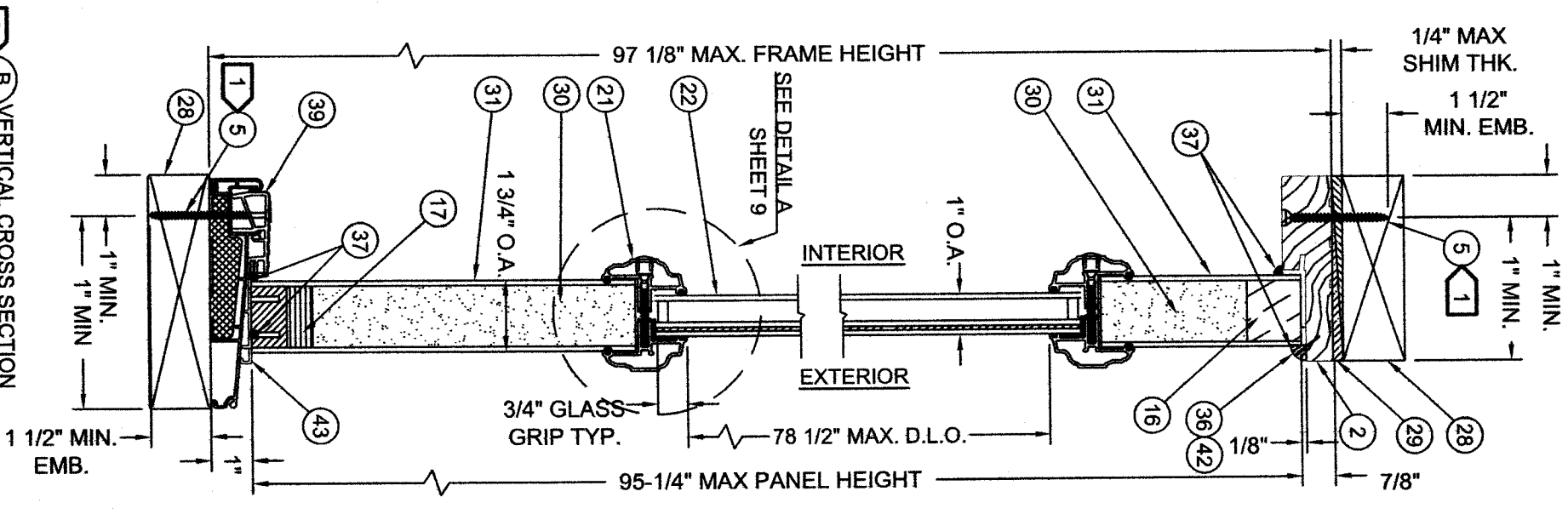
JELD-WEN.
Research and Development
3737 Lakeport Blvd.
Klamath Falls, Oregon 97601
Ph. (541) 882-3451
Fax (541) 850-2609

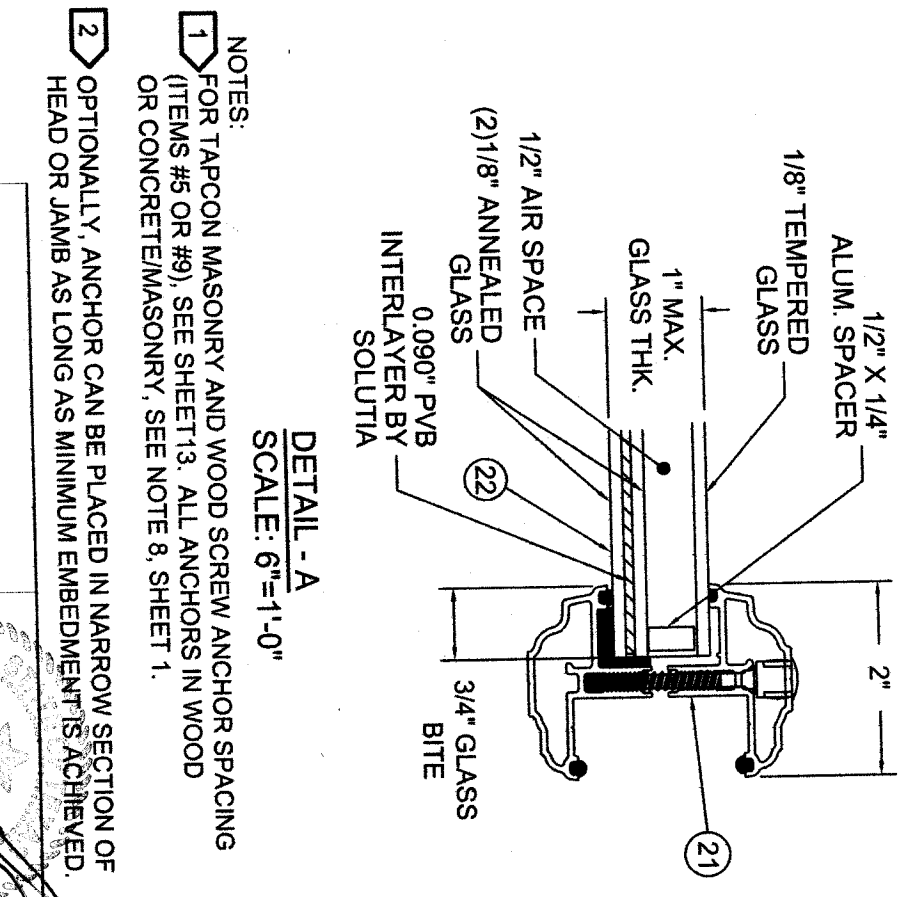
DATE: 06/28/2010
SCALE: 3/8"=1'-0"
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 8 OF 15

2/9 A VERTICAL CROSS SECTION
IN WOOD FRAME OUTSWING OPERATOR
SCALE: 3"=1'-0"



2/9 B VERTICAL CROSS SECTION
IN WOOD FRAME OUTSWING SIDELITE
SCALE: 3"=1'-0"





DETAIL - A
SCALE: 6"=1'-0"

NOTES:

1. FOR TAPCON MASONRY AND WOOD SCREW ANCHOR SPACING (ITEMS #5 OR #9), SEE SHEET13. ALL ANCHORS IN WOOD OR CONCRETE/MASONRY, SEE NOTE 8, SHEET 1.

2. OPTIONALLY, ANCHOR CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT IS ACHIEVED.

Alexis Spyrou
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Texas P.E. No. 102957
127 W. Fairbanks Ave. Ste. 438
Winter Park, FL 32789

NO.	DATE		BY

REVISIONS

PRODUCT:
12'-0" X 8'-0" INSWING/OUTSWING
IMPACT FULL LITE FIBERLAST DOOR

PART OR ASSEMBLY:
OUTSWING VERTICAL CROSS SECTIONS & GLAZING DETAIL

DATE: 06/28/2010
SCALE: AS SHOWN
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 9 OF 15

JELD-WEN
Research and Development
3737 Lakeport Blvd.
Klamath Falls, Oregon 97601
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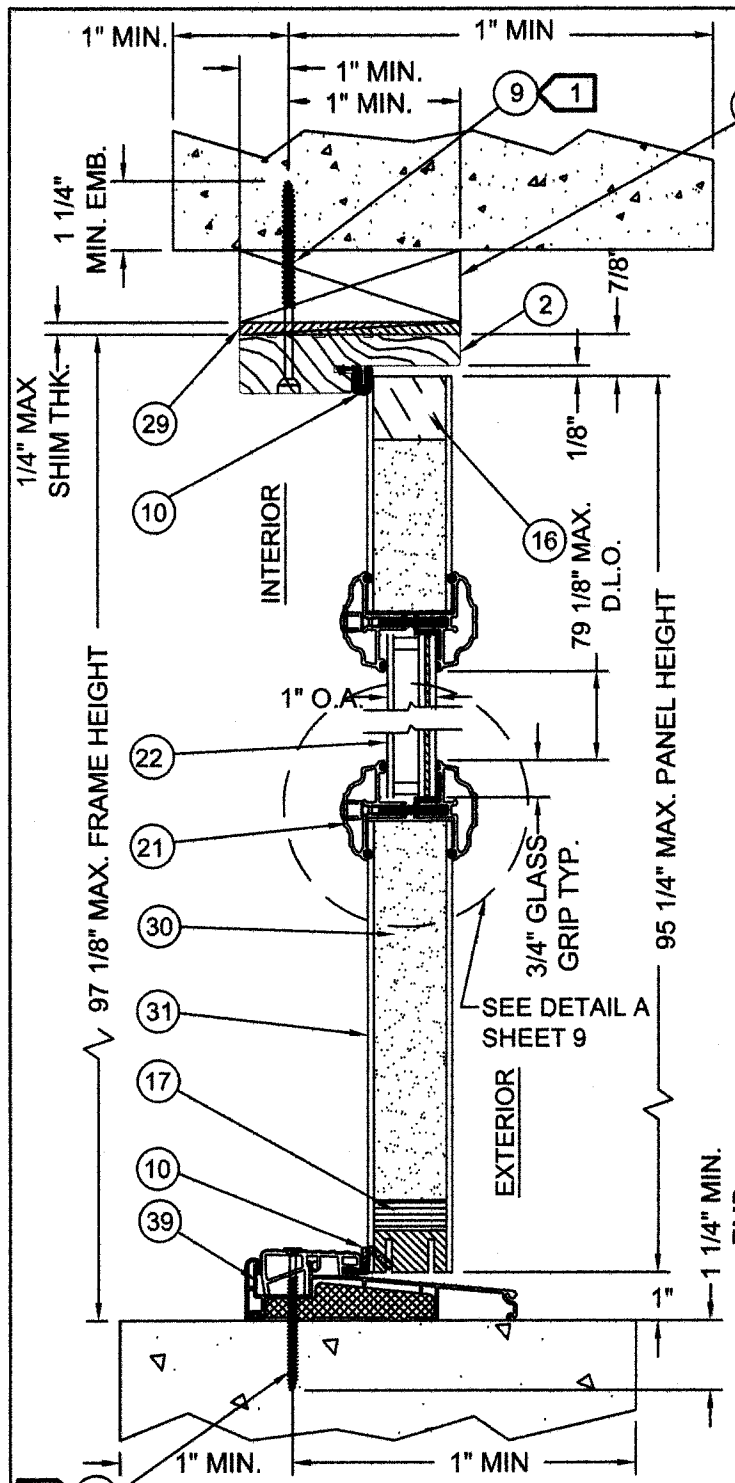
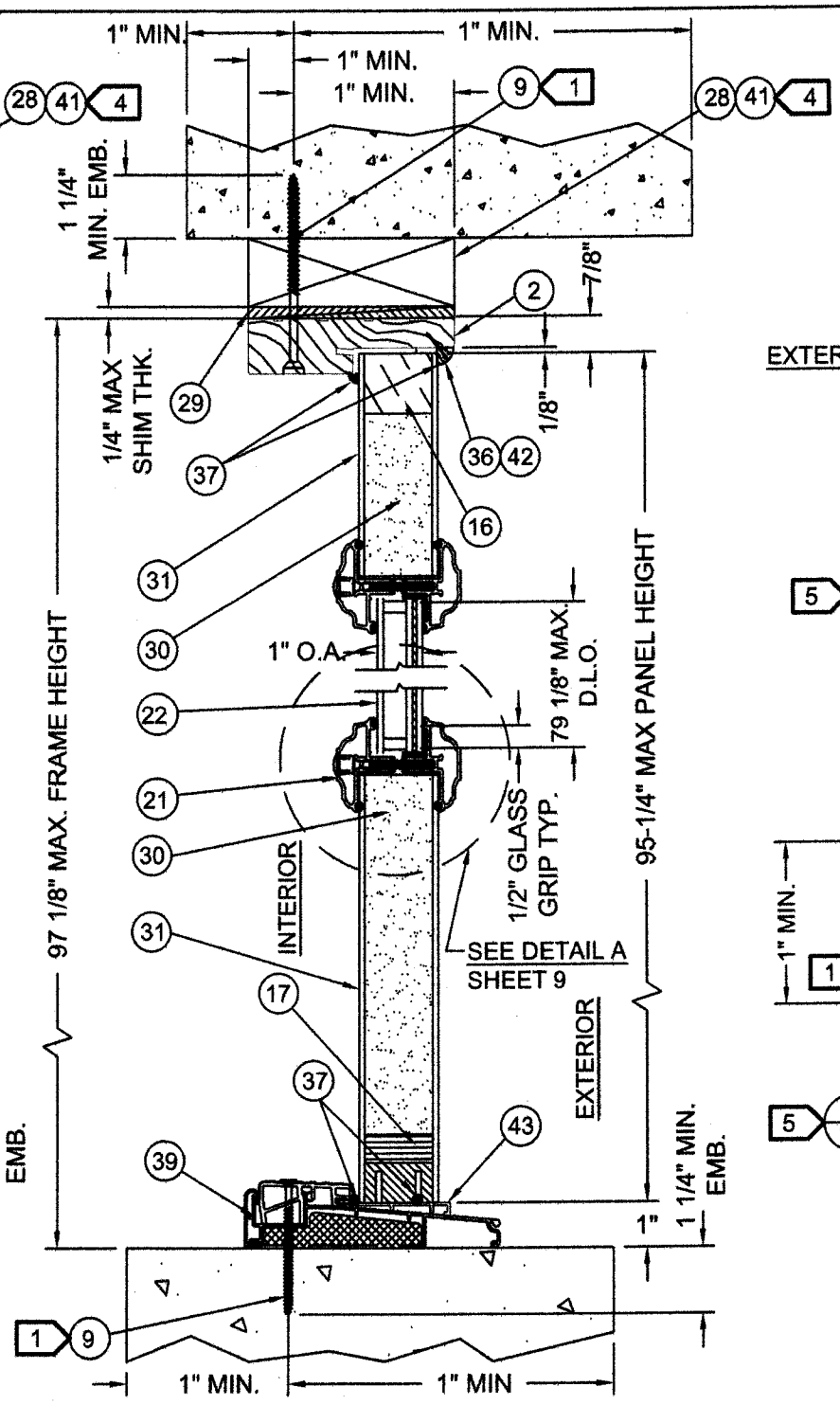
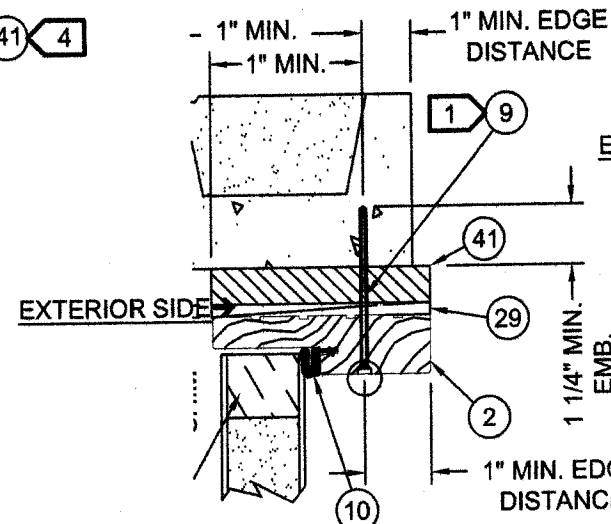
Fax (541) 850-2609



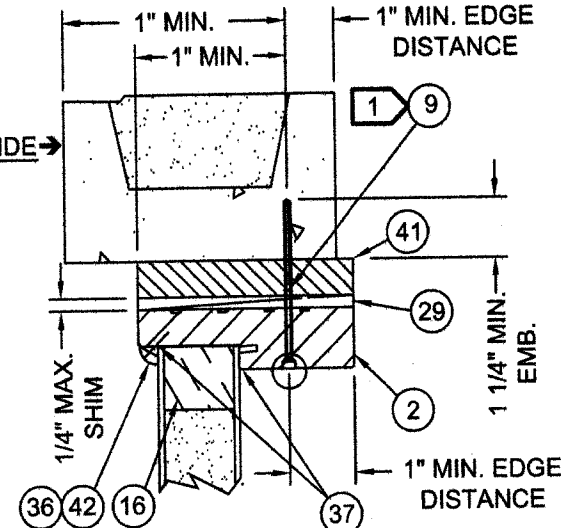
5 A 10 VERTICAL CROSS SECTION
OUTSWING OPERATOR IN
CONCRETE/MASONRY



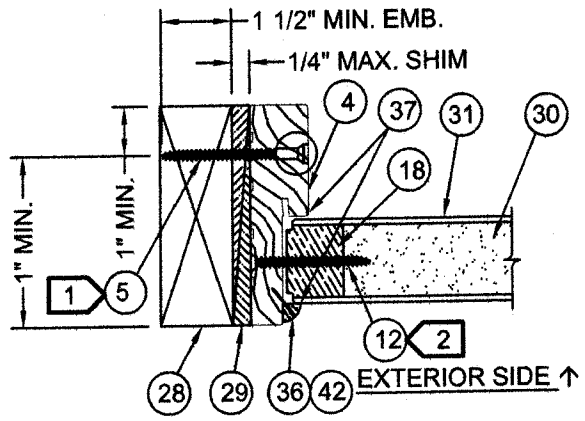
5 B 10 VERTICAL CROSS SECTION
OUTSWING SIDELITE IN
CONCRETE/MASNORY



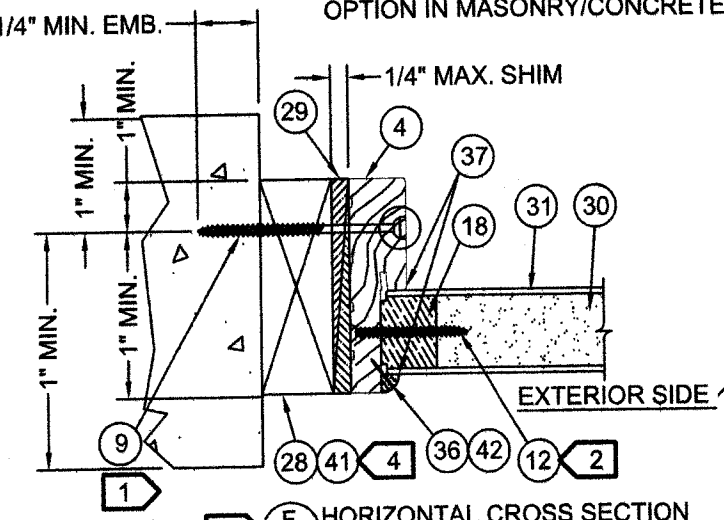
5 C 10 VERTICAL CROSS SECTION
OPERATING UNIT 1X BUCK
OPTION IN MASONRY/CONCRETE



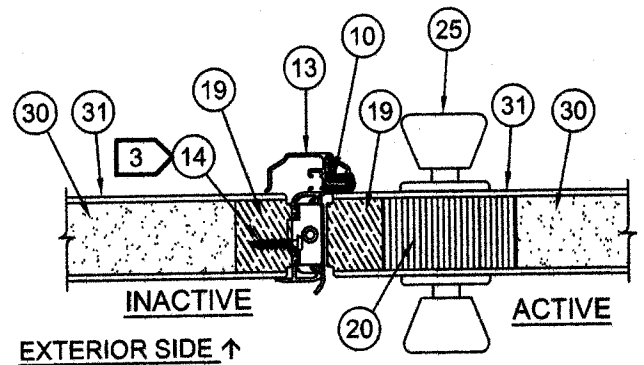
5 D 10 VERTICAL CROSS SECTION
FIXED UNIT 1X BUCK
OPTION IN MASONRY/CONCRETE



5 E 10 HORIZONTAL CROSS SECTION
WOOD CONSTRUCTION
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



5 F 10 HORIZONTAL CROSS SECTION
MASONRY/CONCRETE INSTALL
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



G 10 HORIZONTAL CROSS SECTION
ASTRAGAL

NOTES:

1. FOR TAPCON MASONRY AND WOOD SCREW ANCHOR SPACING ITEMS #5 OR #9), SEE SHEET 13. FOR ANCHORS IN WOOD OR CONCRETE/ MASNORY, SEE NOTE 8 SHEET 1.
2. SPACING FOR #12 FROM TOP OF SIDELITE DOWN (SEE SHEET 12).
3. ASTRAGAL SCREW PATTERN SPACING FOR #13 (SEE SHEET 14).
4. 1X BUCK MAY BE UTILIZED AS AN OPTION. FOR VERTICAL SECTIONS, SEE DETAILS C 10 D 10 SHEET 10.
   HORIZONTAL SECTIONS: DETAILS I 11 J 11 K 11 SHEET 11.
5. OPTIONALLY, ANCHOR CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT IS ACHIEVED.

JELD-WEN
Research and Development
3737 Lakeport Blvd.
Klamath Falls, Oregon 97601
Ph. (541) 882-3451
Fax (541) 850-2609

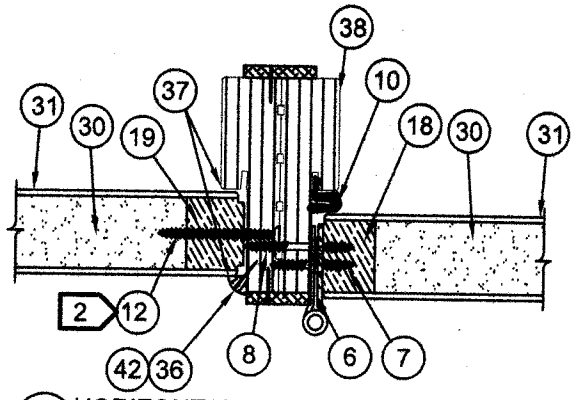
PRODUCT:
12'-0" X 8'-0" INSWING/OUTSWING
IMPACT FULL LITE FIBERLAST DOOR

PART OR ASSEMBLY:
OUTSWING VERTICAL & HORIZONTAL
CROSS SECTIONS

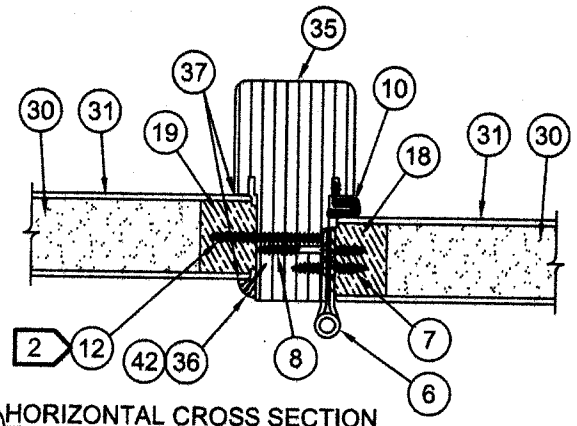
NO.	DATE	BY	REVISIONS

DATE: 06/28/2010
SCALE: 3"=1'-0"
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 10 OF 15

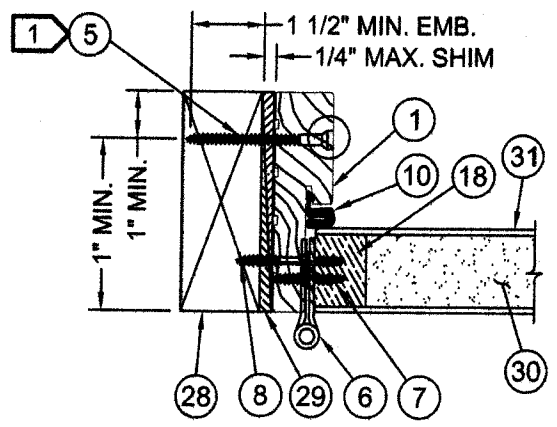
Alexis Spyrou
CertWorks LLC.
Texas P.E. No. 102957
127 W. Fairbanks Ave. Ste. 438
Winter Park, FL 32789



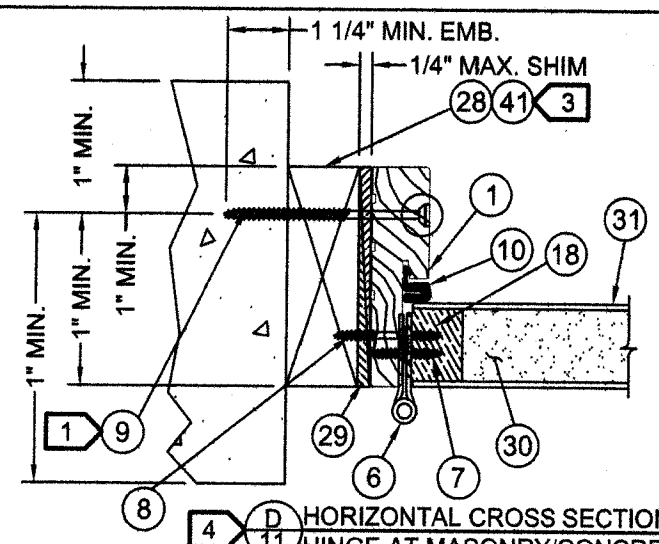
A 11 HORIZONTAL CROSS SECTION
HINGE AT DOUBLE BACK JAMB
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



B 11 HORIZONTAL CROSS SECTION
HINGE AT SOLID MULL POST
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)

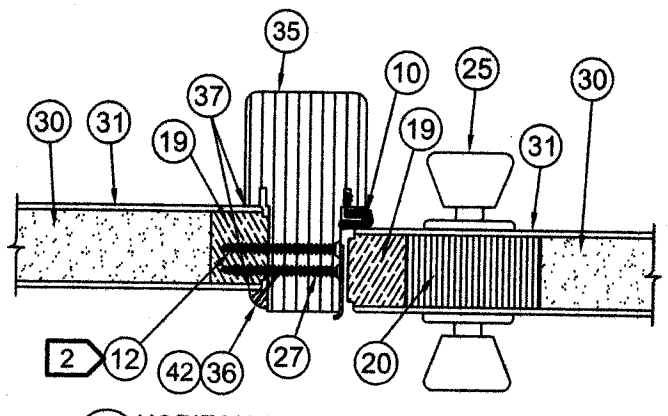


4 C 11 HORIZONTAL CROSS SECTION
AT HINGE WOOD INSTALL
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)

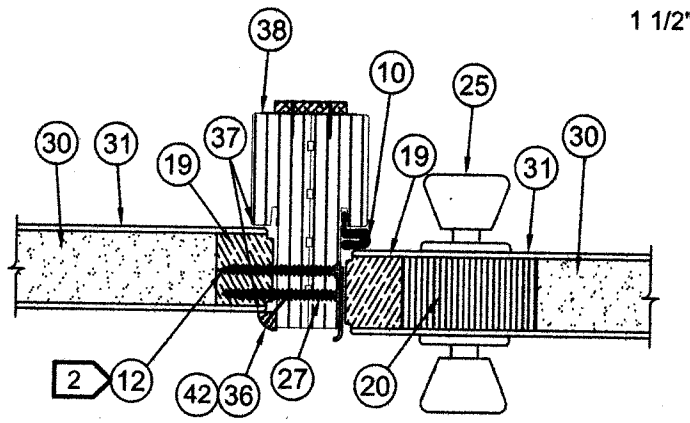


4 D 11 HORIZONTAL CROSS SECTION
HINGE AT MASONRY/CONCRETE INSTALL
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)

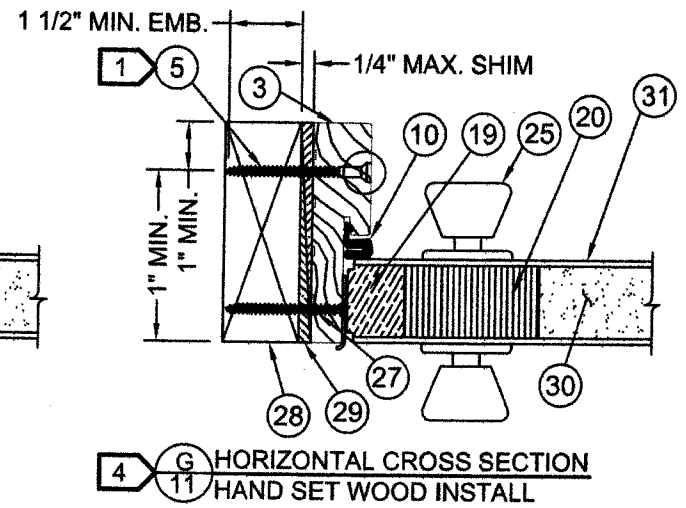
↓INTERIOR SIDE↓



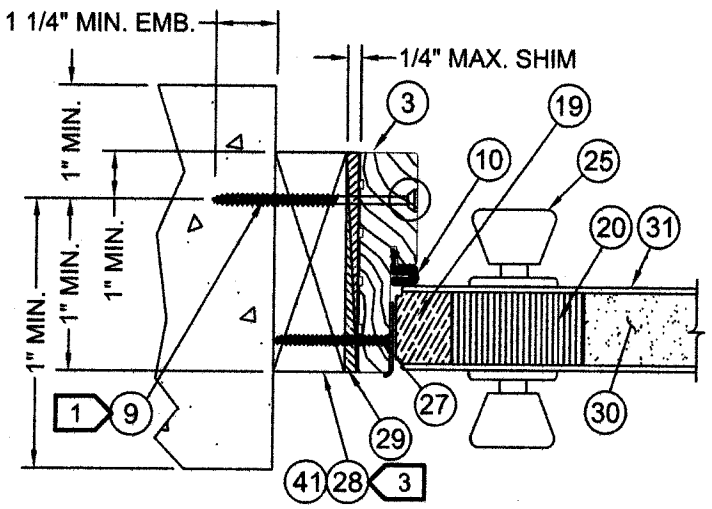
E 11 HORIZONTAL CROSS SECTION
SIDELITE AT SOLID MULL POST
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



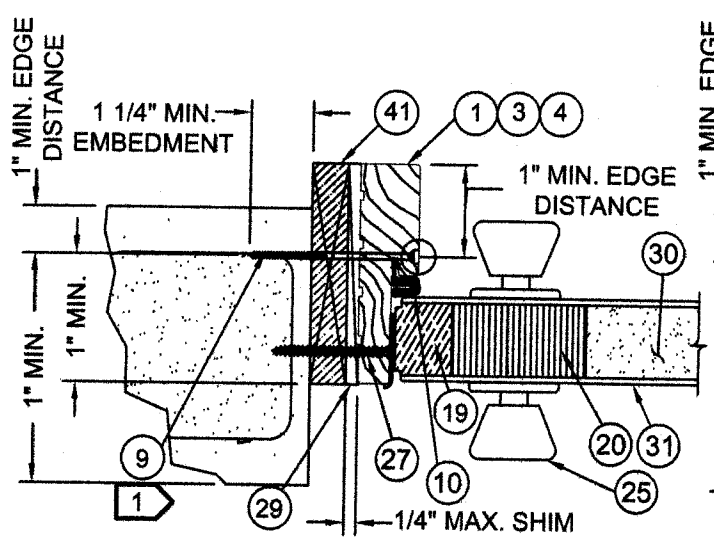
F 11 HORIZONTAL CROSS SECTION
SIDELITE AT DOUBLE BACK JAMB
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



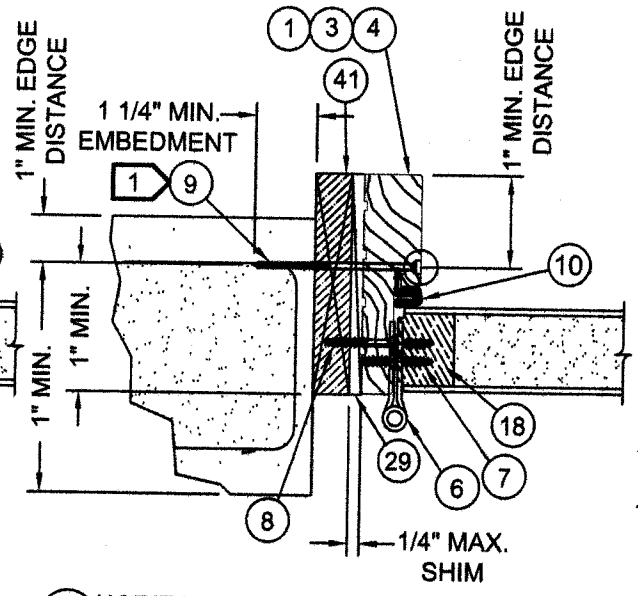
4 G 11 HORIZONTAL CROSS SECTION
HAND SET WOOD INSTALL
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



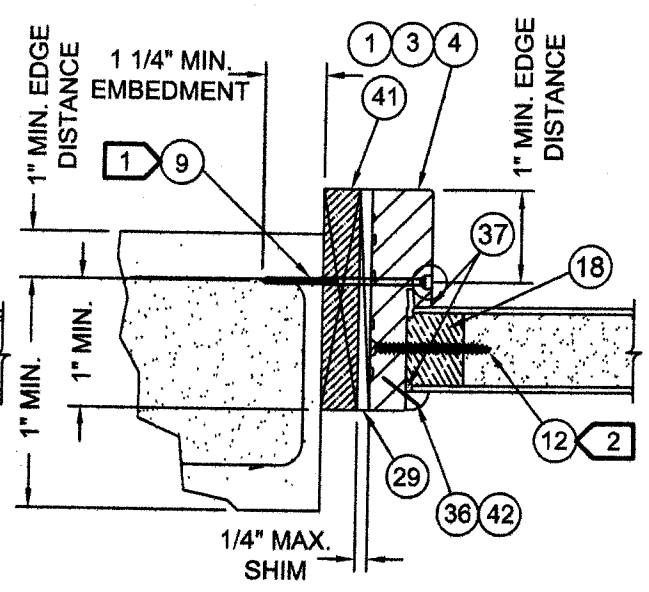
4 H 11 HORIZONTAL CROSS SECTION
HAND SET CONCRETE/MASONRY INSTALL
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



4 I 11 HORIZONTAL CROSS SECTION
OPERATING UNIT 1X BUCK
OPTION IN MASONRY/CONCRETE
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



4 J 11 HORIZONTAL CROSS SECTION
OPERATING UNIT 1X BUCK
OPTION IN MASONRY/CONCRETE
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)



4 K 11 HORIZONTAL CROSS SECTION
FIXED UNIT 1X BUCK
OPTION IN MASONRY/CONCRETE
(LEFT SECTION SHOWN,
RIGHT SECTION OPPOSITE)

NOTES:

1. FOR TAPCON MASONRY AND WOOD SCREW ANCHOR SPACING ITEMS #5 OR #9), SEE SHEET 13. FOR ANCHORS IN WOOD OR CONCRETE/ MASNORY, SEE NOTE 8 SHEET 1.
2. SPACING FOR #12 FROM TOP OF SIDELITE DOWN (SEE SHEET 12).
3. 1X BUCK MAY BE UTILIZED AS AN OPTION. FOR VERTICAL SECTIONS, SEE DETAILS C 10 D 10 SHEET 10.
   HORIZONTAL SECTIONS: DETAILS I 11 J 11 K 11 SHEET 11.
4. OPTIONALLY, ANCHOR CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT IS ACHIEVED.

JELD-WEN.
Research and Development
3737 Lakeport Blvd.
Klamath Falls, Oregon 97601
Ph. (541) 882-3451
Fax (541) 850-2609

PRODUCT: 12'-0" X 8'-0" INSWING/OUTSWING IMPACT FULL LITE FIBERLAST DOOR

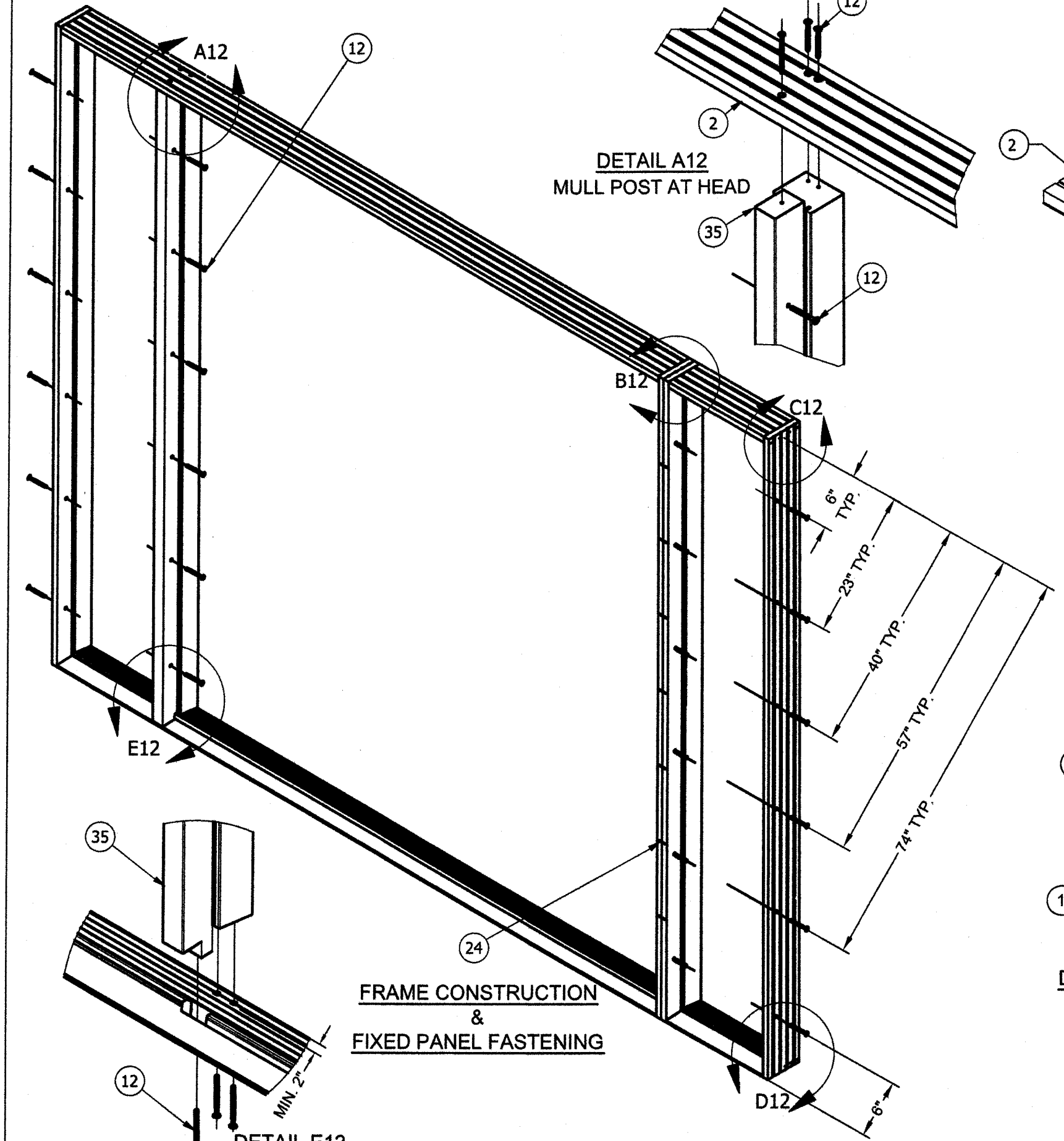
PART OR ASSEMBLY: OUTSWING HORIZONTAL CROSS SECTIONS

NO.	DATE	BY

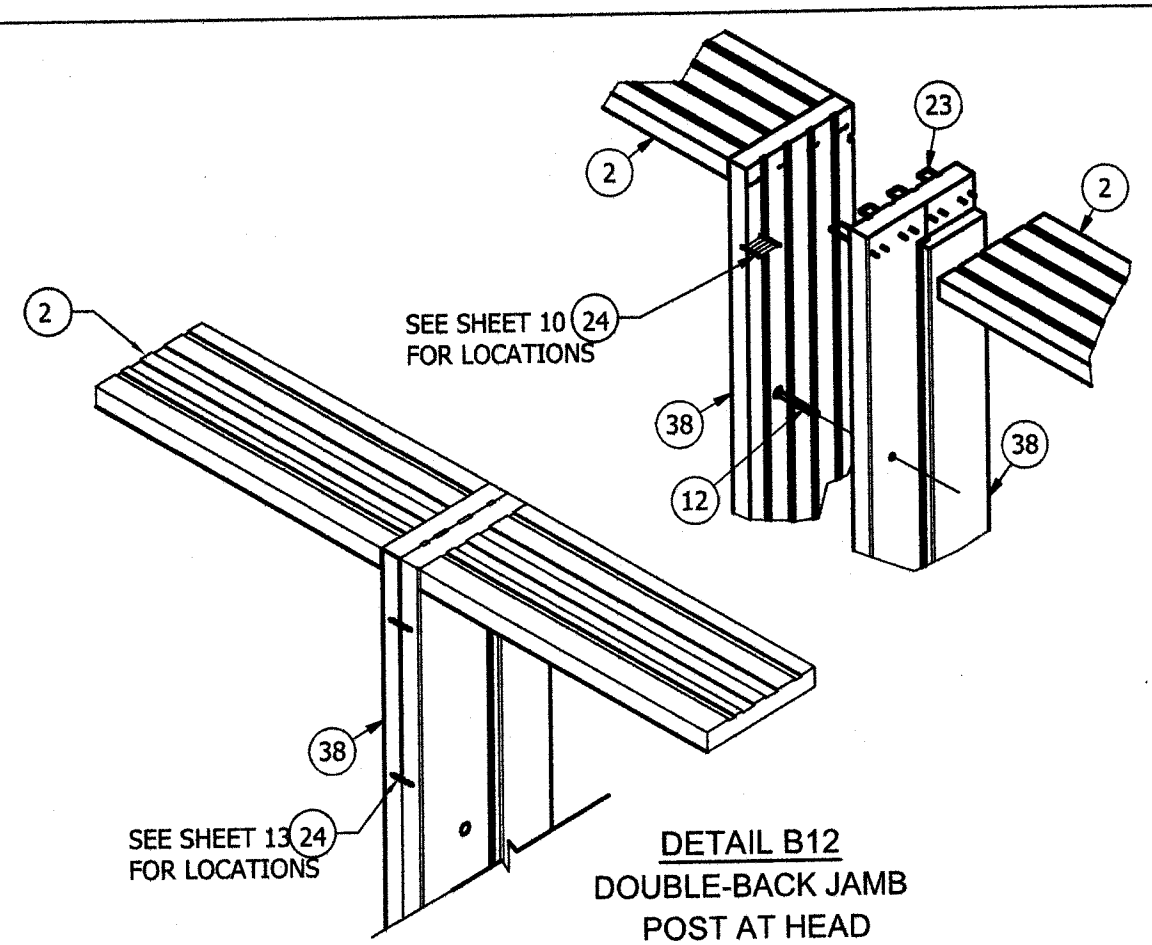
REVISIONS

Alexis Spyrou
CertWorks LLC.
Texas P.E. No. 102957
127 W. Fairbanks Ave. Ste. 438
Winter Park, FL 32789

DATE: 06/28/2010
SCALE: 3"=1'-0"
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 11 OF 15



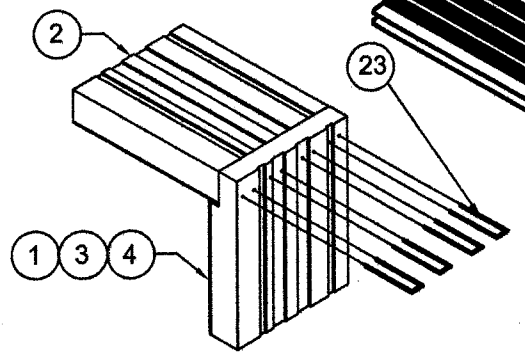
DETAIL A12
MULL POST AT HEAD



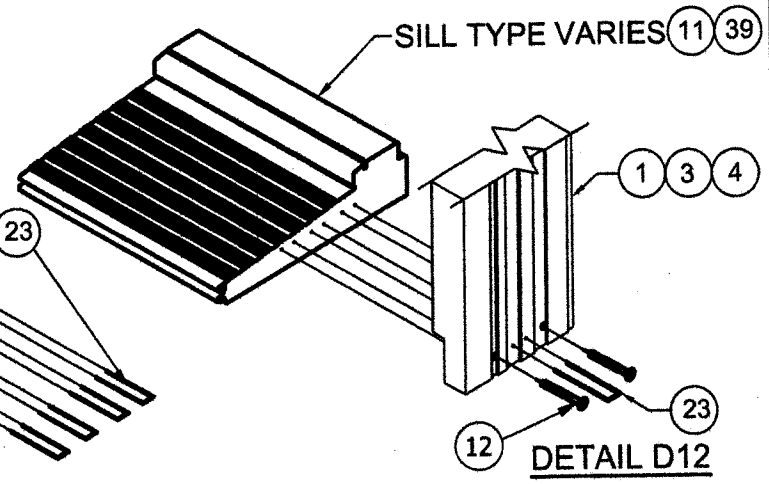
DETAIL B12
DOUBLE-BACK JAMB
POST AT HEAD

DETAIL E12
MULL POST AT SILL

FRAME CONSTRUCTION
&
FIXED PANEL FASTENING



DETAIL C12
SIDE JAMB
AT HEAD



DETAIL D12
SIDE JAMB
AT SILL

JELD-WEN
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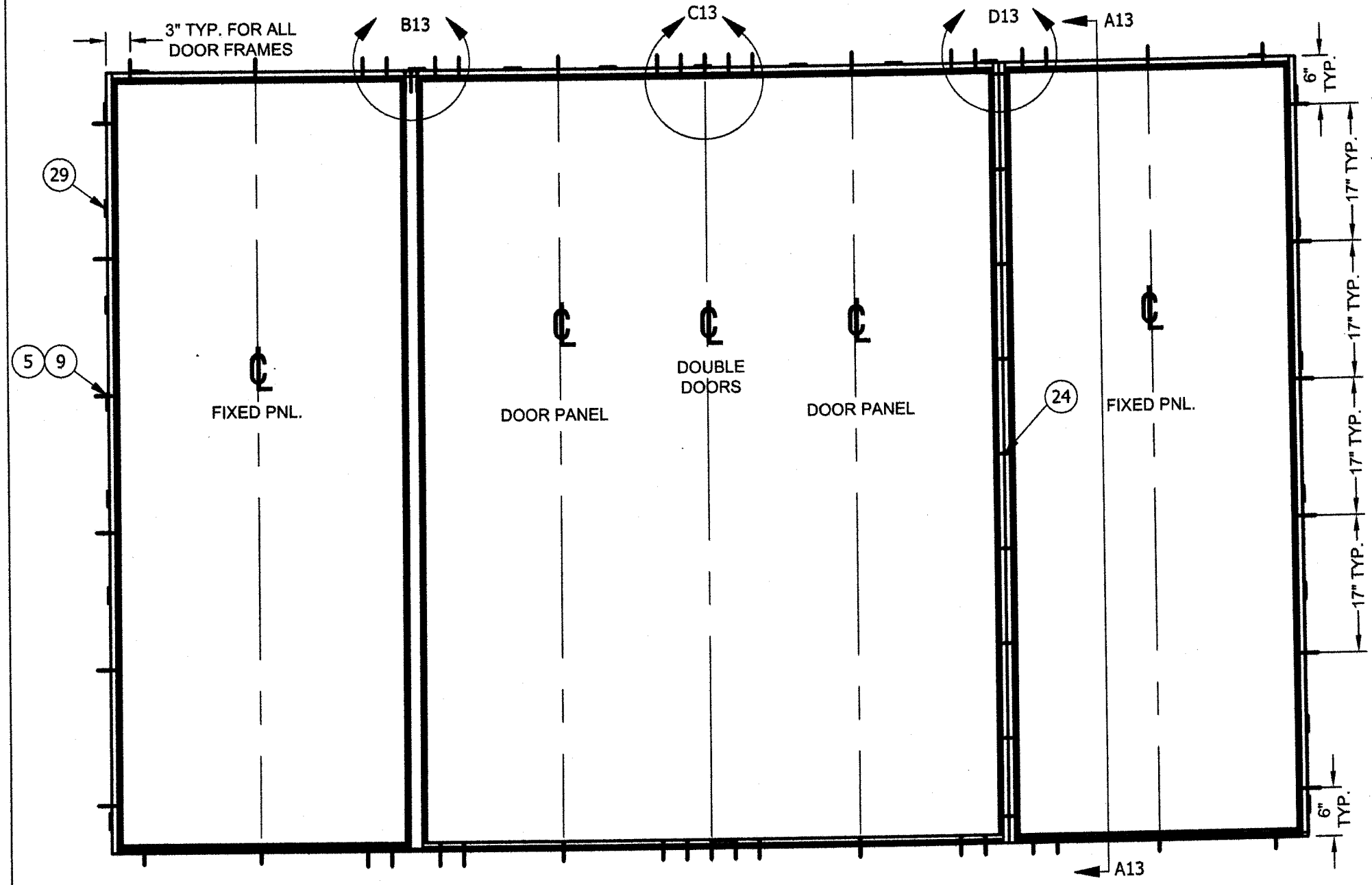
3737 Lakeport Blvd.
Klamath Falls, Oregon 97601
Ph. (541) 882-3451
Fax (541) 850-2609

PRODUCT:
12'-0" X 8'-0" INSWING/OUTSWING
IMPACT FULL LITE FIBERLAST DOOR
PART OR ASSEMBLY:
FRAME CONSTRUCTION & FIXED PANEL FASTENING

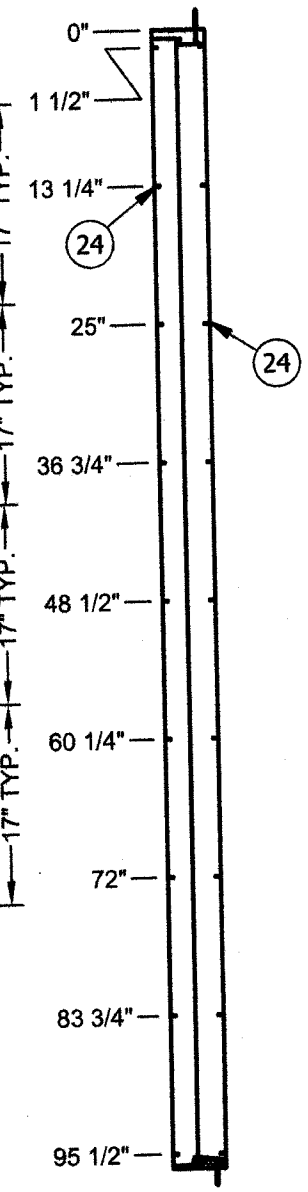
NO.	DATE	REVISIONS	BY

Alexis Spyrou
CertWorks LLC
Texas P.E. No. 102957
127 W. Fairbanks Ave. Ste. 438
Winter Park, FL 32789

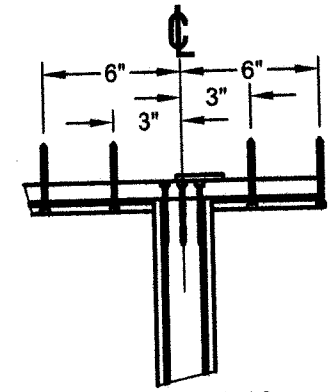
DATE: 06/28/2010
SCALE: NO SCALE
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 12 OF 15



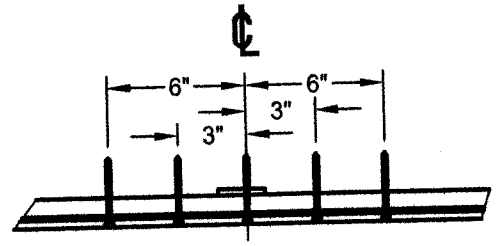
QUAD UNIT OXXO
ANCHOR SPACING
INSWING AND OUTSWING



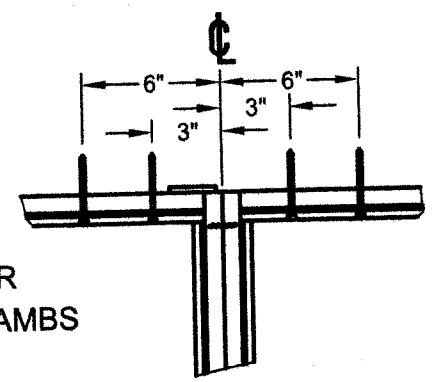
SECTION A13
TYP. CORRUGATED FASTENER
LOCATIONS FOR DOUBLE BACK JAMBS
INSWING AND OUTSWING



DETAIL B13
TYP. FASTENER
ANCHOR FOR ALL
MULL POSTS



DETAIL C13
TYP. FASTENER
ANCHOR FOR ALL
DOUBLE DOORS
WITH ASTRAGALS



DETAIL D13
TYP. FASTENER
ANCHOR FOR ALL
DOUBLE-BACK MULL POSTS

JELD-WEN
Research and Development
3737 Lakeport Blvd.
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Ph. (541) 882-3451
Fax (541) 850-2609

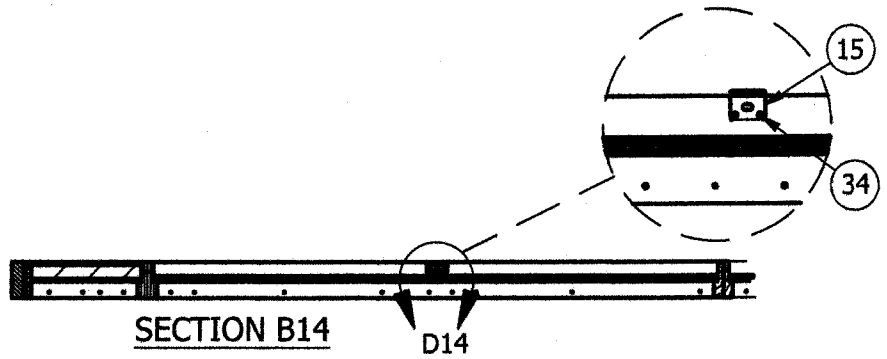
PRODUCT: 12'-0" X 8'-0" INSWING/OUTSWING IMPACT FULL LITE FIBERLAST DOOR

PART OR ASSEMBLY: ANCHORING LOCATIONS

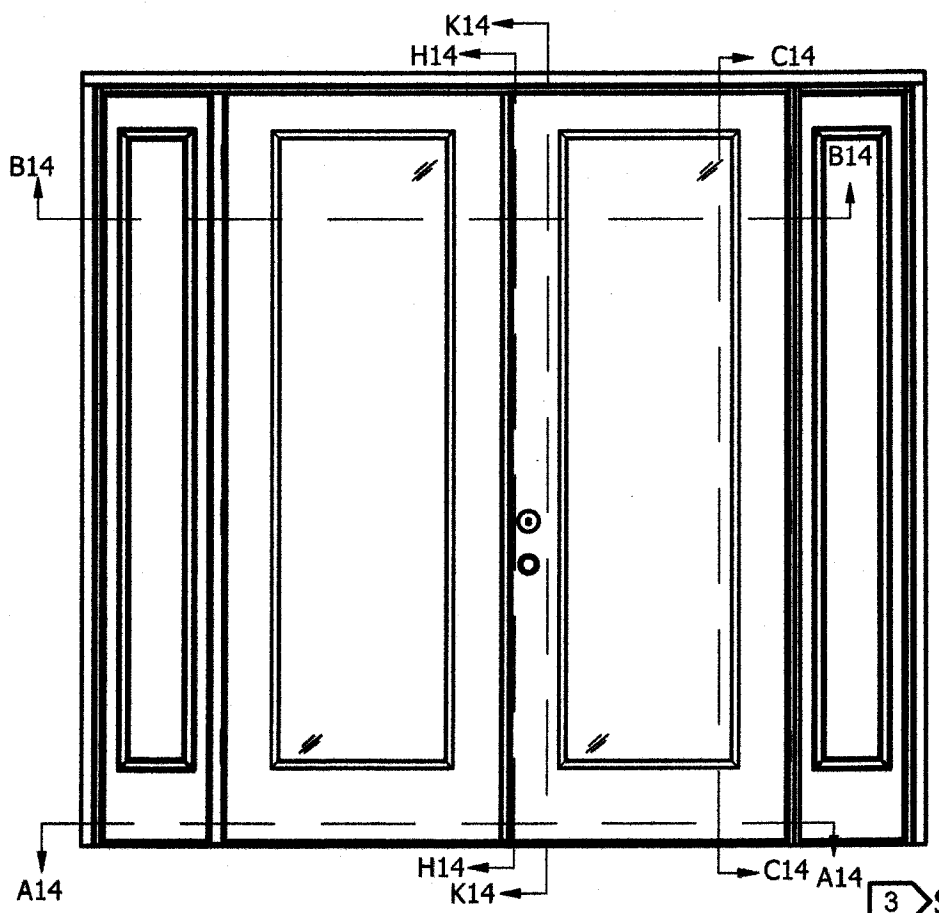
NO.	DATE	BY	REVISIONS

DATE: 06/28/2010
SCALE: NO SCALE
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 13 OF 15

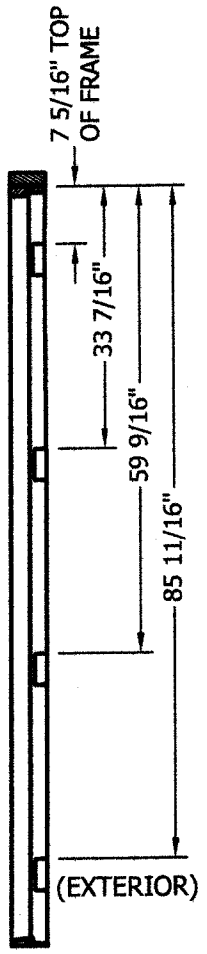
Alexis Spyrou
CertWorks LLC.
Texas P.E. No. 102957
127 W. Fairbanks Ave. Ste. 438
Winter Park, FL 32789



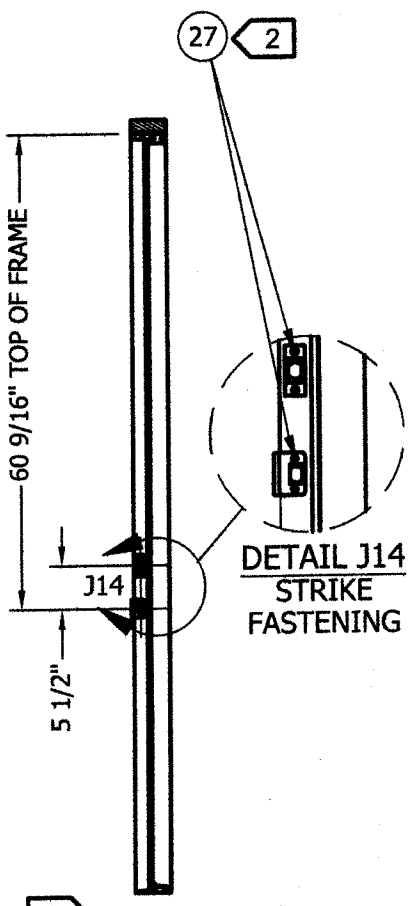
1 DETAIL D14
TYP. TOP ASTRAGAL
STRIKE PLATE LOCATION



OUTSWING QUAD UNIT OXXO
TYP. FOR ALL
OUTSWING SYSTEMS



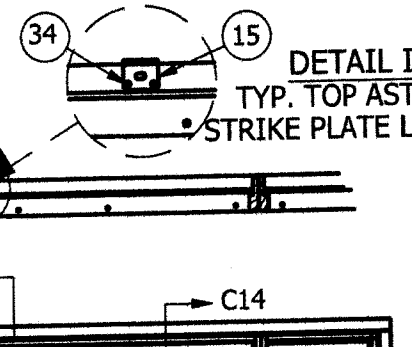
3 SECTION C14
JAMB HINGE ROUTE
LOCATIONS, ALL DOOR
SYSTEMS



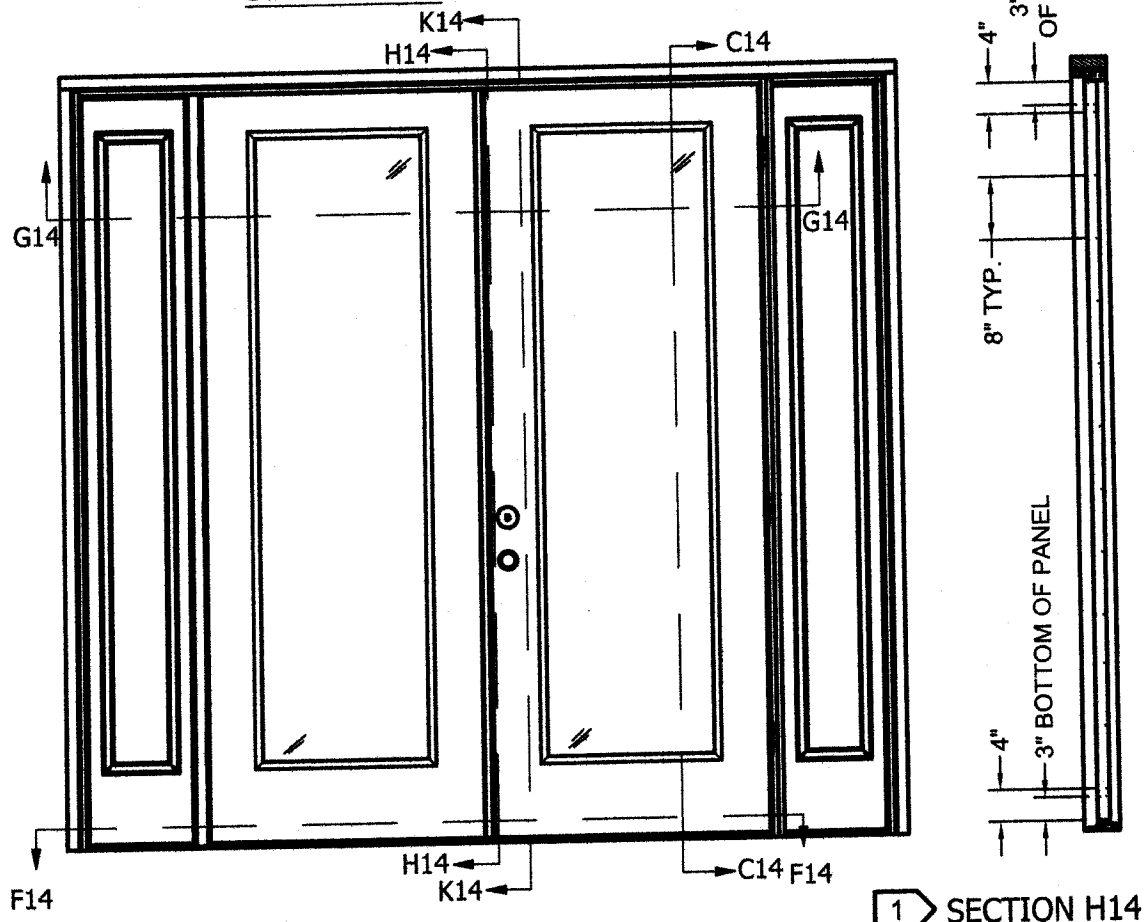
1 SECTION K14
DOOR STRIKE PLATE
LOCATIONS, ALL DOOR
SYSTEMS

DETAIL J14
STRIKE
FASTENING

1 DETAIL E14
TYP. BOTTOM ASTRAGAL
STRIKE PLATE LOCATION
FOR OUTSWING DOORS

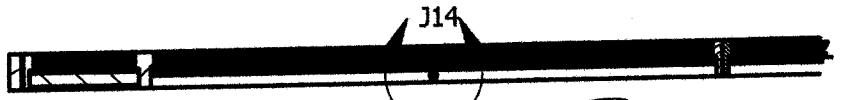


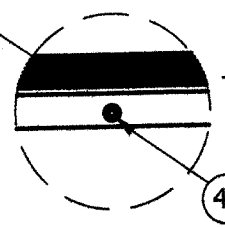
1 DETAIL I14
TYP. TOP ASTRAGAL
STRIKE PLATE LOCATION



INSWING QUAD UNIT OXXO
TYP. FOR ALL
INSWING SYSTEMS

1 SECTION H14
ASTRAGAL SCREW
LOCATIONS, ALL
DOOR SYSTEMS





1 DETAIL J14
TYP. BOTTOM ASTRAGAL
STRIKE PLUG LOCATION
FOR INSWING DOORS

NOTES:

1. FOLLOW ENDURA INSTRUCTIONS WITH PACKET
2. USE 2" LONG #8 FLAT HEAD PHILLIPS SCREWS INSTEAD OF 3"
3. FOR HINGE ROUTE AT TOP OF PANEL STARTING AT THE HEAD:
   6-7/16", 32 9/16", 58 11/16", 84 13/16"

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PRODUCT:
12'-0" X 8'-0" INSWING/OUTSWING
IMPACT FULL LITE FIBERLAST DOOR

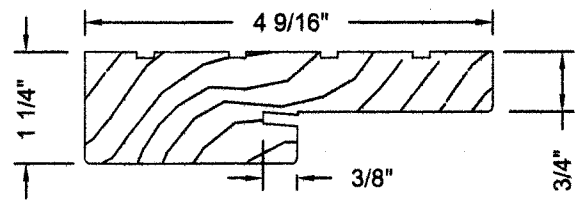
PART OR ASSEMBLY:
HARDWARE INSTALLATION DETAILS

NO.	DATE	BY

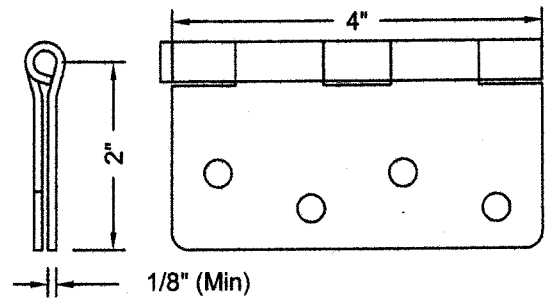
REVISIONS

Alexis Spyrou
CertWorks LLC.
Texas P.E. No. 102957
127 W. Fairbanks Ave. Ste. 438
Winter Park, FL 32789

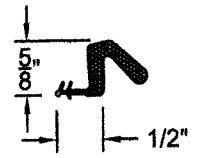
DATE: 06/28/2010
SCALE: NO SCALE
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 14 OF 15



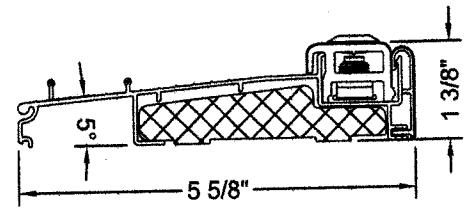
1 2 3 4 WOOD JAMB FINGERJOINTED PINE
SCALE: 6" =1'-0"



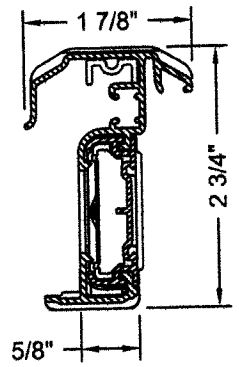
6 BUTT HINGE 4x4x12 GA. STEEL
SCALE: 6" =1'-0"



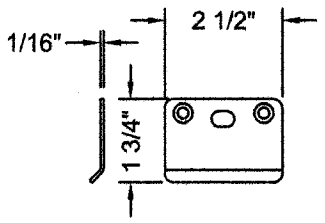
10 COMPRESSION WEATHERSTRIP
LOXSEAL 9650 FOAM
SCALE: 6" =1'-0"



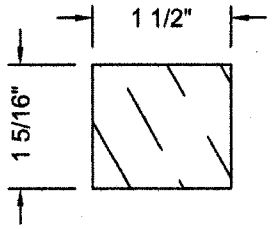
11 ENDURA INSWING THRESHOLD
6063 T6 AL AND COMPOSITE
SCALE: 6" =1'-0"



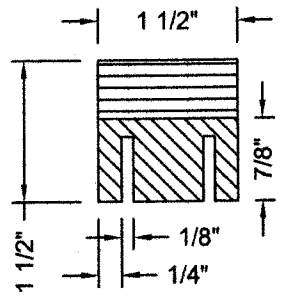
ENDURA ULTIMATE HURRICANE
13 6063-T6 ALUMINUM ASTRAGAL
SCALE: 6" =1'-0"



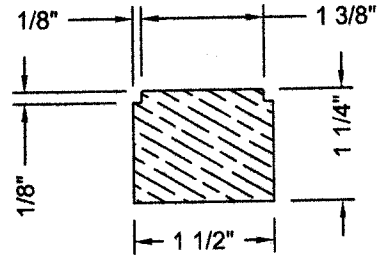
15 ENDURA ASTRAGAL STRIKE
STEEL
SCALE: 3" =1'-0"



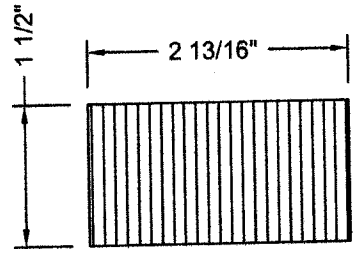
16 TOP RAIL
FINGERJOINTED PINE
SCALE: 6" =1'-0"



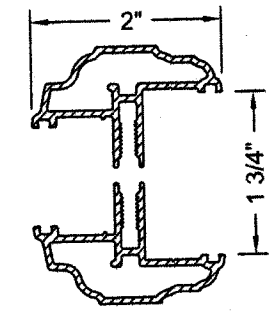
17 BOTTOM RAIL
PVC CAPPED LVL
SCALE: 6" =1'-0"



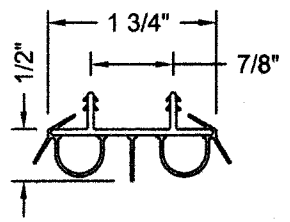
18 19 LATCH STILE
HINGE STILE
FINGERJOINTED PINE
SCALE: 6" =1'-0"



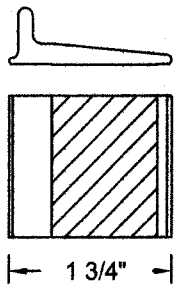
20 INNER LATCH STILE
LAMINATED VENEER LUMBER (LVL)
SCALE: 6" =1'-0"



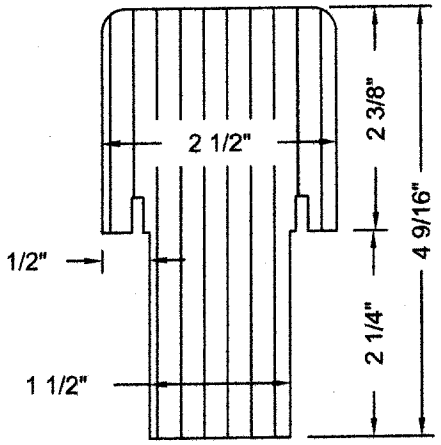
21 ODL IMPACT - FRAME
6063-T6 ALUMINUM
SCALE: 6" =1'-0"



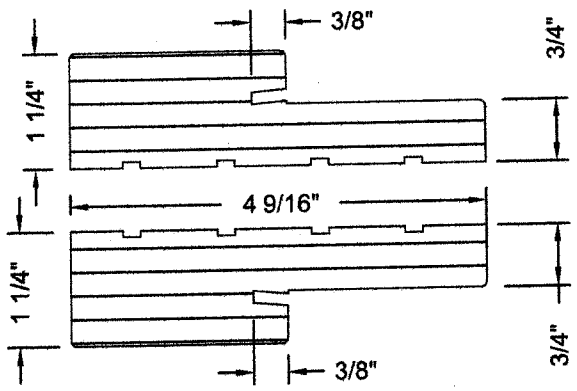
32 DOOR BOTTOM SWEEP
VINYL
SCALE: 6" =1'-0"



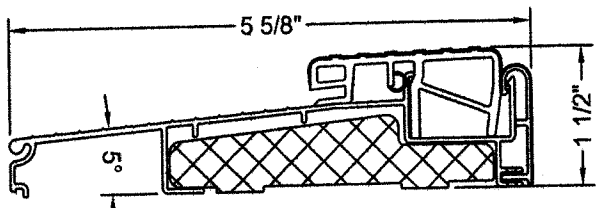
33 CORNER PADS
PLASTIC
SCALE: 6"=1'-0"



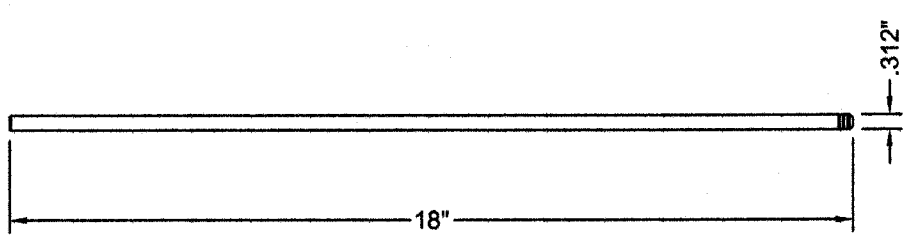
35 MULL POST
LAMINATED VENEER LUMBER (LVL)
SCALE: 6" =1'-0"



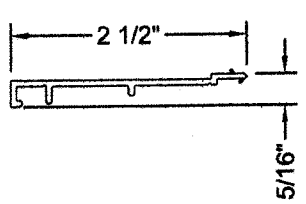
38 DOUBLE BACK JAMB
LAMINATED VENEER LUMBER (LVL)
SCALE: 6" =1'-0"



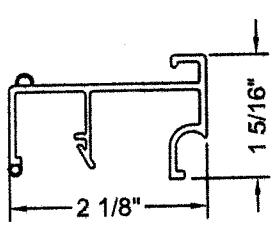
39 ENDURA OUTSWING THRESHOLD
6063 T6 AL AND COMPOSITE
SCALE: 6" =1'-0"



40 ASTRAGAL THROW BOLT
MATERIAL: COLD ROLLED STEEL, ZINC & YELLOW CHROMATE
SCALE: 3" =1'-0"



43 ENDURA OUTSWING SIDELITE SEAT
EXTRUDED VINYL
SCALE: 6" =1'-0"



44 ENDURA INSWING SIDELITE SEAT
EXTRUDED VINYL
SCALE: 6" =1'-0"

JELD-WEN.
Research and Development
3737 Lakeport Blvd.
Klamath Falls, Oregon 97601
Ph. (541) 882-3451
Fax (541) 850-2609

PRODUCT: 12'-0" X 8'-0" INSWING/OUTSWING IMPACT FULL LITE FIBERLAST DOOR
PART OR ASSEMBLY: COMPONENTS

NO.	DATE	REVISIONS	BY

Alexis Spyrou
CertWorks LLC.
Texas P.E. No. 102957
127 W. Fairbanks Ave. Ste. 438
Winter Park, FL 32789

DATE: 06/28/2010
SCALE: AS SHOWN
DWG. BY: G.LUBBECKE
CHK. BY: S.SAFFELL
DRAWING NO.: JW122010
SHEET 15 OF 15