JELD-WEN WINDOWS & DOORS

DESIGN PRO / SMOOTH PRO
NON-IMPACT

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT INTERNATIONAL RESIDENTIAL CODE (IRC), INTERNATIONAL BUILDING CODE (IBC), AND TEXAS REVISIONS, AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
   - ASTM E330-02
   - ASTM E283-04
   - AAMA 1304-02
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY OR 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
4. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
5. GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAILS.
6. FIXED FULL LITE APPROVAL COVERS USE OF FRACTIONAL GLAZING, INCLUDING INTERNAL GRID, BLINDS BETWEEN GLASS, DECO, AND EXTERNAL AND INTERNAL WROUGHT IRON. RADIUS (SHAPED) LITES ARE QUALIFIED FOR 6'-8" DOORS AT DP +/-50 PSF ONLY.
7. 6-PANEL DOOR SHOWN FOR ILLUSTRATION PURPOSES. ADDITIONAL PANEL CONFIGURATIONS AND FLUSH DOORS ARE QUALIFIED.
8. NOTE: OPERATING AFCO H-497 SILL MEETS WATER INFILTRATION AT WATER TEST PRESSURE (WTP) OF 9.75 PSF. FIXED SIDELITE MEETS WATER INFILTRATION AT WTP OF 7.5 PSF. REMAINING SILLS NOT RATED FOR WATER INFILTRATION. IF AUTHORITY HAVING JURISDICTION REQUIRES THAT PRODUCT MEETS THIS REQUIREMENT, PRODUCT SHALL BE USED WHEN INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT OVERHANG (OH) RATIO = OH LENGTH ÷ OH HEIGHT IS ≥ 1.0

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1	A	TYPICAL ELEVATIONS, DESIGN PRESSURES, AND GENERAL NOTES
2	A	TYPICAL ANCHOR LAYOUTS AND NOTES
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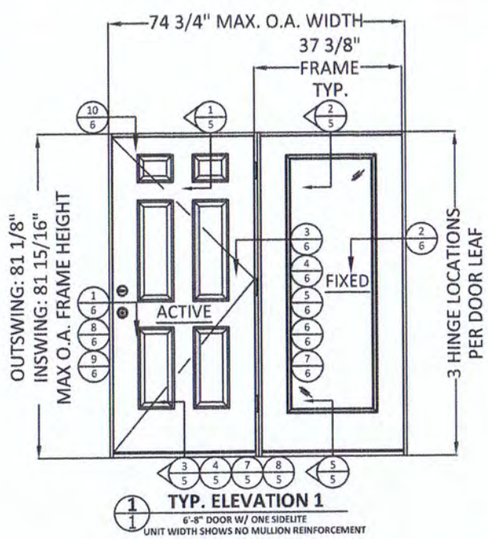
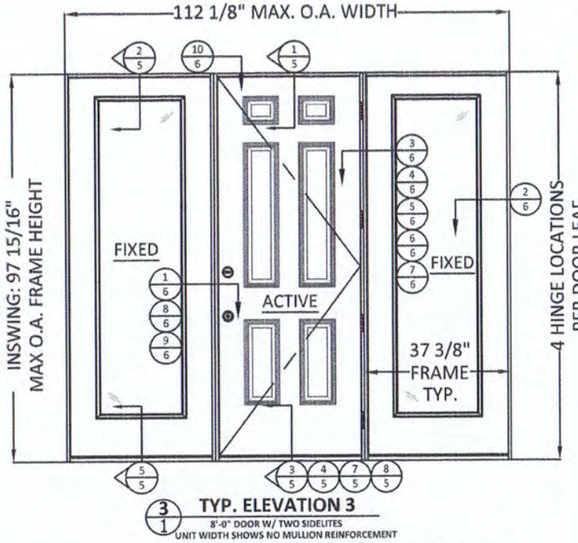
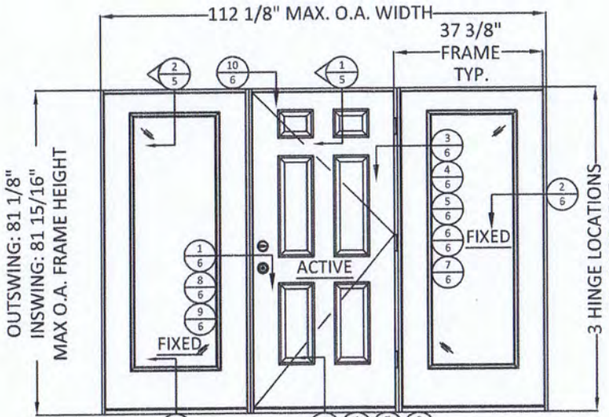
4	-	OPTIONAL 2X BUCK ANCHORING DETAILS
5	A	VERTICAL ASSEMBLIES
6	A	HORIZONTAL ASSEMBLIES
7	A	WOOD SUBSTRATES
8	A	CONCRETE SUBSTRATES
9	A	COMPONENTS & BILL OF MATERIALS



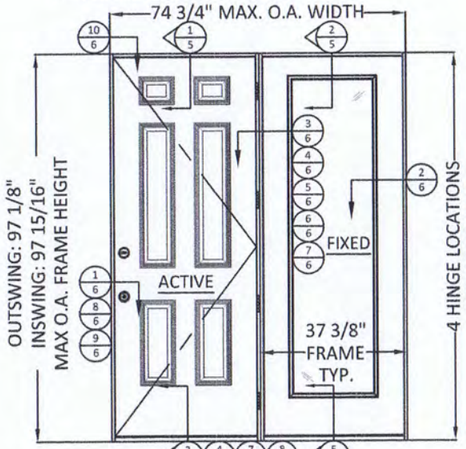
1/1 **TYP. ELEVATION 1**
6'-8" DOOR W/ ONE SIDELITE
UNIT WIDTH SHOWS NO MULLION REINFORCEMENT



3/1 **TYP. ELEVATION 3**
8'-0" DOOR W/ TWO SIDELITES
UNIT WIDTH SHOWS NO MULLION REINFORCEMENT



2/1 **TYP. ELEVATION 2**
6'-8" DOOR W/ TWO SIDELITES
UNIT WIDTH SHOWS NO MULLION REINFORCEMENT



4/1 **TYP. ELEVATION 4**
8'-0" DOOR W/ ONE SIDELITE
UNIT WIDTH SHOWS NO MULLION REINFORCEMENT

NOTES:
1. ALL DOORS SHOWN IN CONFIGURATIONS ON THIS SHEET MAY BE LEFT HAND OR RIGHT HAND OPERATING DOORS.
2. SIDELITE MAY BE USED IN LIEU OF DOOR IN CONFIGURATIONS SHOWN ABOVE AS LONG AS O.A. DIMENSIONS ARE NOT SURPASSED.

CONFIGURATION	MAX. OVERALL NOMINAL SIZE		DESIGN PRESSURE (PSF)								MISSILE IMPACT RATING
			FINGER-JOINTED PINE				ALL OTHER MATERIALS				
			INSWING		OUTSWING		INSWING		OUTSWING		
	WIDTH	HEIGHT	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	
O,X,O	9'-0"	6'-8"	50*	50	50*	50	50*	50	50*	50	NON-IMPACT
O,X,O RADIUS	9'-0"	6'-8"	50*	50	50*	50	50*	50	50*	50	NON-IMPACT
O,X,O	9'-0"	8'-0"	45*	45	45*	45	45*	45	45*	45	NON-IMPACT
X,O	6'-0"	6'-8"	50*	50	50*	50	50*	50	50*	50	NON-IMPACT
X,O RADIUS	6'-0"	6'-8"	50*	50	50*	50	50*	50	50*	50	NON-IMPACT
X,O	6'-0"	8'-0"	45*	45	45*	45	45*	45	45*	45	NON-IMPACT

*SEE GENERAL NOTE 8, SHEET 1, FOR WATER INFILTRATION APPROVED SILLS.

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TITLE: *DESIGN PRO/SMOOTH PRO NON-IMPACT*
TYPICAL ELEVATIONS, DESIGN PRESSURES, AND GENERAL NOTES

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JELD-WEN WINDOWS & DOORS

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STATE OF TEXAS
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PROFESSIONAL ENGINEER
ALEXIS SPYROU
TEXAS P.E. NO. 102957
398 DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

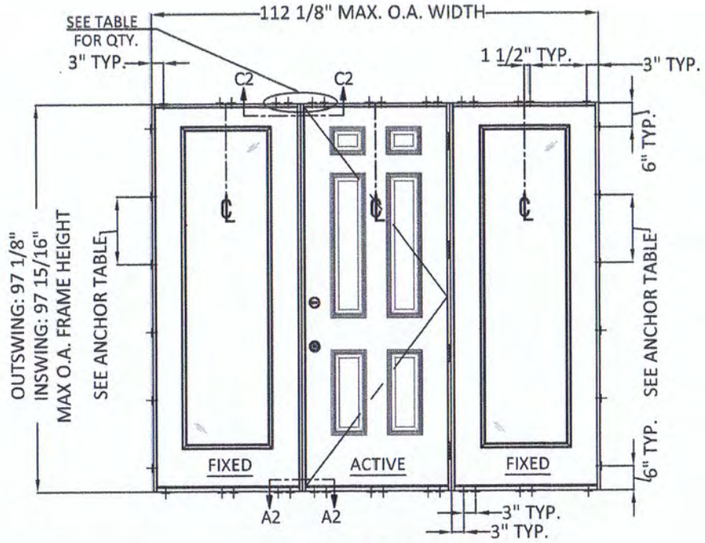
DATE: 07.10.14
DWG. BY: GL
CHK. BY: SS
SCALE: NTS
DWG. #: A011008
SHEET: 1 OF 9

INSTALLATION NOTES:

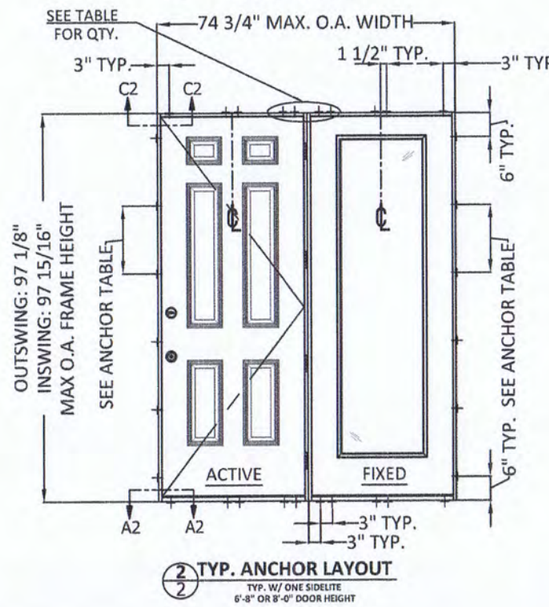
1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE A NON-COMPRESSIBLE COMPOSITE OR BETTER.
3. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
4. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING, AND SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
6. FOR 2X STUD CONSTRUCTION, ANCHORING OF THESE PRODUCTS SHALL BE THE SAME AS FOR 2X BUCK CONCRETE/MASONRY CONSTRUCTION.
7. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
   A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
   B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
   C. GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
   D. HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
8. SEE SHEETS 7 AND 8 FOR MORE DETAILS OF THE INSTALLATION REQUIREMENTS, INCLUDING ANCHOR LOCATIONS, EDGE DISTANCES, EMBEDMENTS, AND SHIM SPACING.
9. OPTIONALLY, ANCHORS CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT AND EDGE DISTANCE ARE ACHIEVED.

ANCHOR TABLE

ANCHOR TYPE	ANCHOR SIZE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	6'8" DOORS		8'0" DOORS	
					MAX. O.C. SPACING AT JAMBS	# OF ANCHORS AT HEAD/SILL CLUSTERS	MAX. O.C. SPACING AT JAMBS	# OF ANCHORS AT HEAD/SILL CLUSTERS
WOOD SCREW	#10	2X WOOD BUCK OR FRAMING	1-1/2"	3/4"	17-1/2"	4	17-1/4"	4
ITW TAPCON	3/16"	CONCRETE/CMU	1-1/4"	2-1/2"	17-1/2"	4	17-1/4"	4
ELCO ULTRACON	1/4"	CONCRETE/CMU	1-3/8" - CONC. 1-1/4" - CMU	1"	17-1/2"	4	17-1/4"	4
ITW TAPCON	3/16"	CONCRETE/CMU	1-1/4"	1"	11-5/8"	8	14-3/8"	6

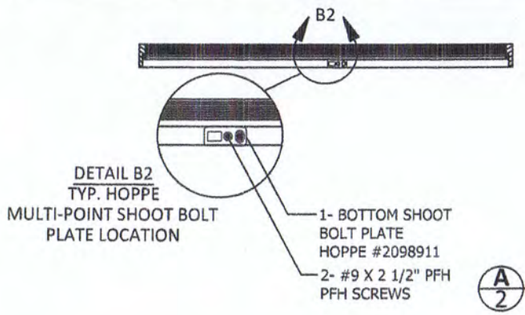


1/2 TYPICAL ANCHOR LAYOUT
TYP. W/ TWO SIDELITES
6'-8" OR 8'-0" DOOR HEIGHT

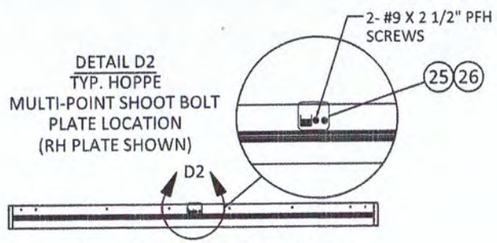


2/2 TYP. ANCHOR LAYOUT
TYP. W/ ONE SIDELITE
6'-8" OR 8'-0" DOOR HEIGHT

NOTES:
1. ALL DOORS SHOWN IN CONFIGURATIONS ON THIS SHEET MAY BE LEFT HAND OR RIGHT HAND OPERATING DOORS.
2. SIDELITE MAY BE USED IN LIEU OF DOOR IN CONFIGURATIONS SHOWN ABOVE AS LONG AS O.A. DIMENSIONS ARE NOT SURPASSED.



A/2 SILL SECTION VIEW
INSWING SHOWN OUTSWING SIMILAR
SEE DETAIL B2



C/2 HEAD SECTION VIEW
INSWING SHOWN OUTSWING SIMILAR
SEE DETAIL D2

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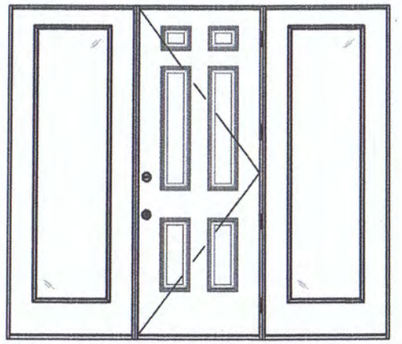
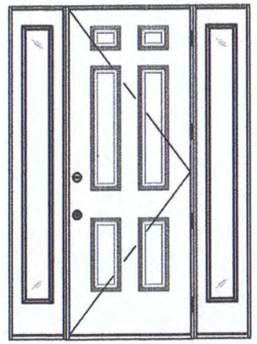
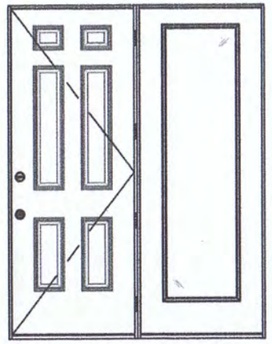
SHEET: 2 OF 9



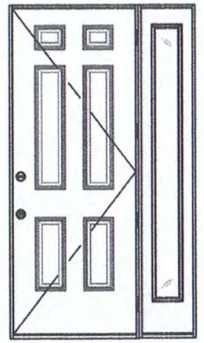
1/3 O,X,O ELEVATION
WITH 3'0" SIDELITES



2/3 O,X,O ELEVATION
WITH 1'3" SIDELITES

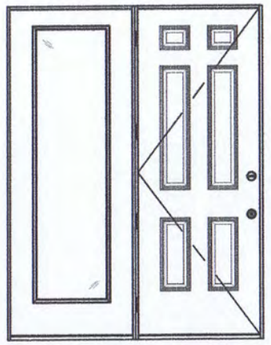


3/3 X,O ELEVATION
WITH 3'0" SIDELITE

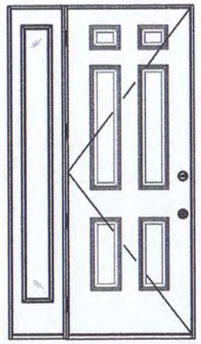


4/3 X,O ELEVATION
WITH 1'3" SIDELITE

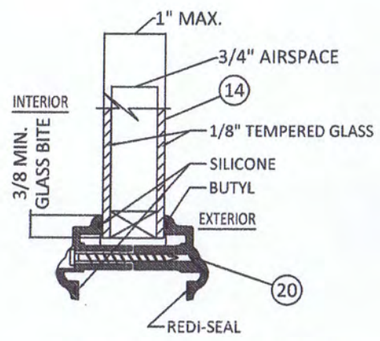
NOTES:
1. ALL DOORS SHOWN IN CONFIGURATIONS ON THIS SHEET MAY BE LEFT HAND OR RIGHT HAND OPERATING DOORS.
2. SIDELITE MAY BE USED IN LIEU OF DOOR IN CONFIGURATIONS SHOWN ABOVE AS LONG AS O.A. DIMENSIONS ARE NOT SURPASSED.



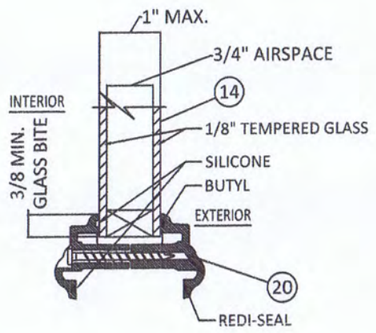
5/3 X,O ELEVATION
WITH 3'0" SIDELITE



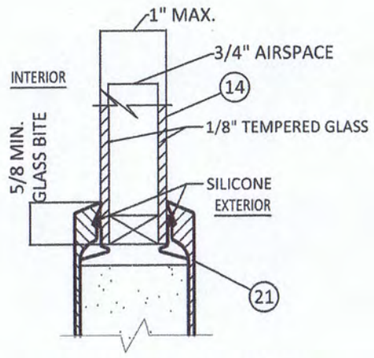
6/3 X,O ELEVATION
WITH 1'3" SIDELITE



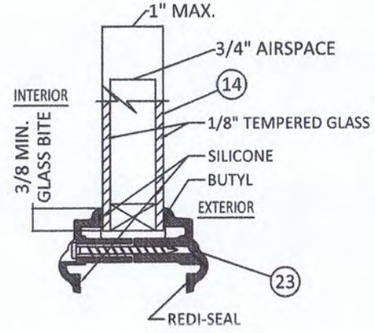
7/3 6'-8" GLAZING DETAIL
20 1/2" MAX. D.L.O. WIDTH
62 1/2" MAX. D.L.O. HEIGHT



8/3 8'-0" GLAZING DETAIL
20 1/2" MAX. D.L.O. WIDTH
78 1/2" MAX. D.L.O. HEIGHT



9/3 FLUSH GLAZE DETAIL
23 7/8" MAX. D.L.O. WIDTH
78 7/8" MAX. D.L.O. HEIGHT



10/3 GLAZING DETAIL
FOR OVAL, SUNBURST, AND ROUND TOPS IN 6'8" UNITS AT DP+/- 50 PSF ONLY

NOTE:
FRACTIONAL GLAZING, INCLUDING INTERNAL GRID, BLINDS BETWEEN GLASS, DECORATIVE, EXTERNAL AND INTERNAL WROUGHT IRON AND RADIUS (SHAPED) LITES ARE APPROVED IN ALL GLAZING DETAILS SHOWN ABOVE.

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TITLE:
DESIGN PRO/SMOOTH PRO
NON-IMPACT
QUALIFIED CONFIGURATIONS & GLAZING DETAIL

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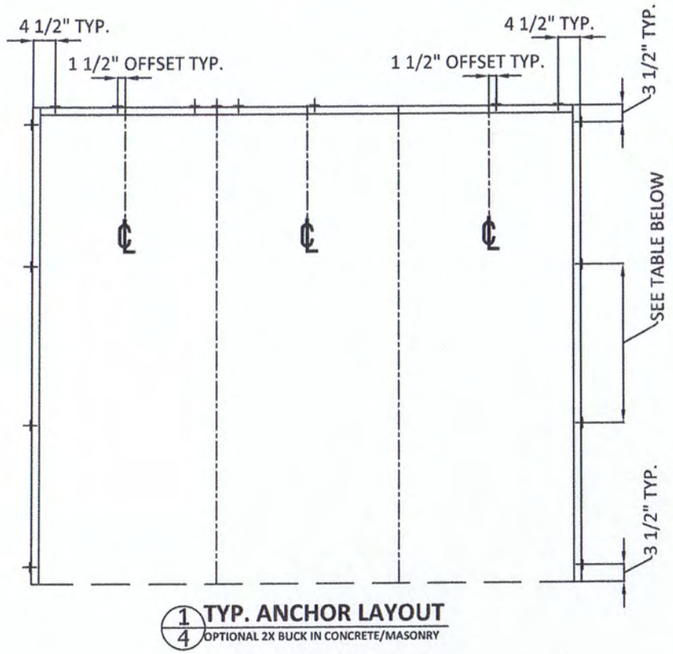
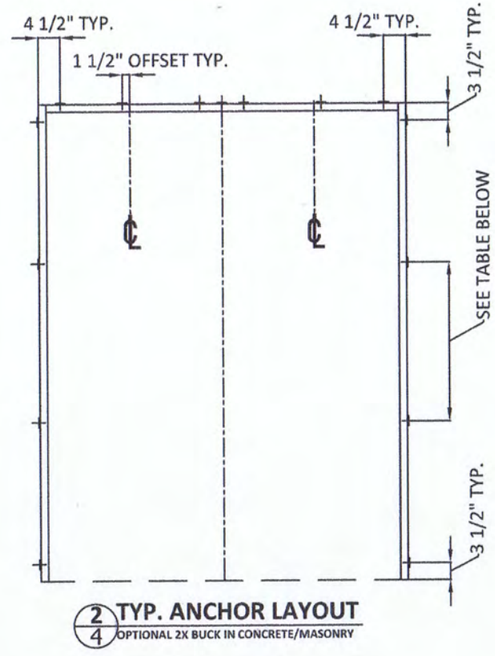
TBPE FIRM NO. 13734

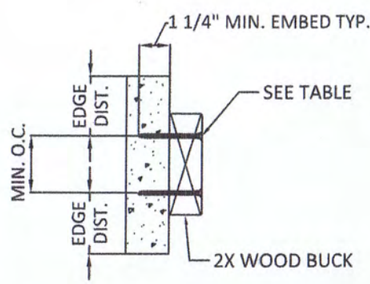
DATE: 07.10.14
DWG. BY: GL
CHK. BY: SS
SCALE: NTS
DWG. #: A011008
SHEET: OF 9
3



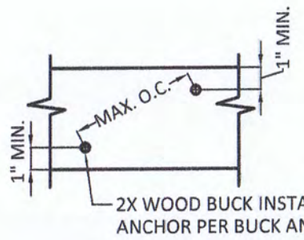
1/4 TYP. ANCHOR LAYOUT
OPTIONAL 2X BUCK IN CONCRETE/MASONRY



2/4 TYP. ANCHOR LAYOUT
OPTIONAL 2X BUCK IN CONCRETE/MASONRY



3/4 2X WOOD BUCK INSTALL.
CROSS SECTION



4/4 2X WOOD BUCK INSTALL.
SIDE VIEW

2X BUCK ANCHOR TABLE

ANCHOR TYPE	ANCHOR SIZE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DIST. TO SUBSTRATE	MIN. CENTER TO CENTER DISTANCE	6'8" DOORS	8'0" DOORS
						MAX. O.C. SPACING AT JAMBS	MAX. O.C. SPACING AT JAMBS
ITW TAPCON	1/4"	CONCRETE/CMU	1-1/4"	2-1/2"	4"	25"	30-1/4"
ELCO ULTRACON	1/4"	CONCRETE/CMU	1-3/8" - CONC. 1-1/4" - CMU	1"	4"	25"	30-1/4"

NOTES:

1. 2X BUCK IS NOT FOR INSTALLATION AT SILL. THRESHOLD SHALL BE FASTENED IN ACCORDANCE WITH ANCHOR LOCATIONS SHOWN ON SHEET 2.
2. ANCHORS MAY BE STAGGERED AS SHOWN IN DETAIL 4/4.

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OPTIONAL 2X BUCK ANCHORING DETAILS

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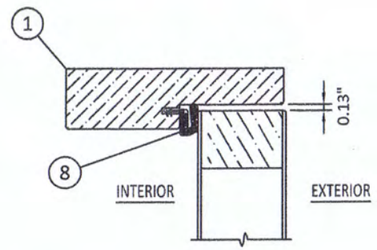
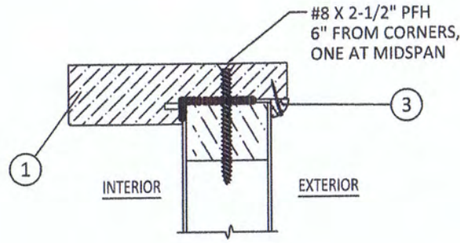
CHK. BY: SS
SCALE: NTS
DWG. #: A011008
SHEET: 4 OF 9



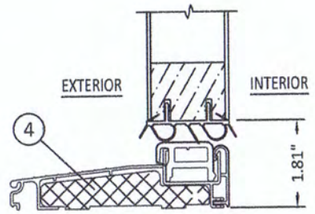
1/5 OPERABLE HEAD

OUTSWING SHOWN - INSWING SIMILAR



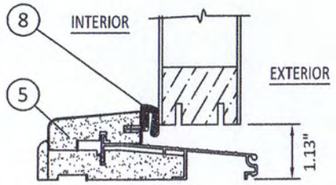
2/5 SIDELITE HEAD

OUTSWING SHOWN - INSWING SIMILAR



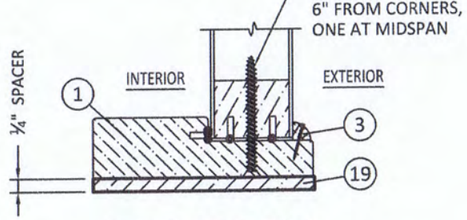
3/5 OPERABLE SILL

INSWING
ENDURA ZAIL4565F



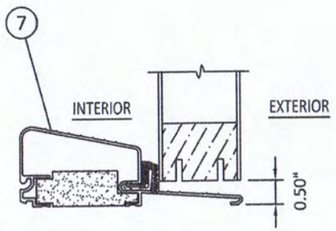
4/5 OPERABLE SILL

OUTSWING
AFCO J-2297



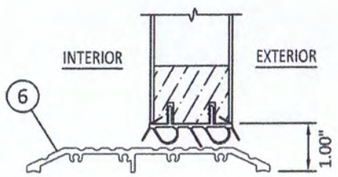
5/5 SIDELITE SILL

OUTSWING SHOWN - INSWING SIMILAR



7/5 OPERABLE SILL

OUTSWING
OPTIONAL AFCO H-497



8/5 OPERABLE ADA SILL

INSWING/OUTSWING
ENDURA HCI5000

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VERTICAL ASSEMBLIES

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JELD-WEN WINDOWS & DOORS

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STATE OF TEXAS
ALEXIS SPYROU
102957
LICENSED
PROFESSIONAL ENGINEER

ALEXIS SPYROU
TEXAS P.E. NO. 102957
398 DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

DATE: 07.10.14

DWG. BY: GL | CHK. BY: SS

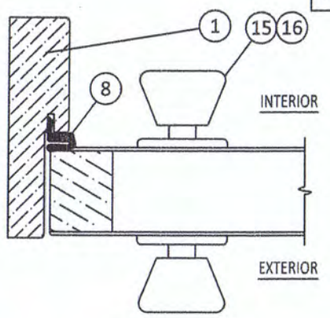
SCALE: NTS

DWG. #: A011008

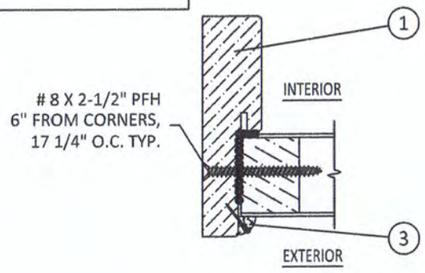
SHEET: OF 9

5

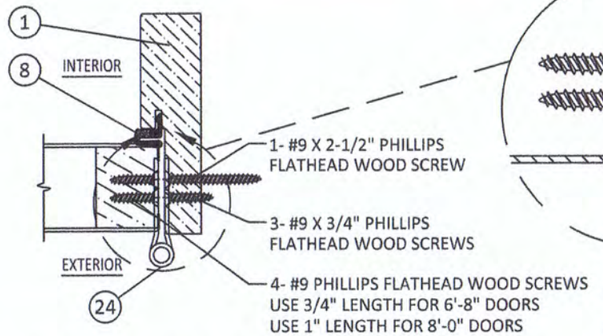
NOTE:
HINGE AND LOCK ARE INTERCHANGEABLE AT THE MULLION.



1/6 LOCK JAMB
OUTSWING SHOWN - INSWING SIMILAR

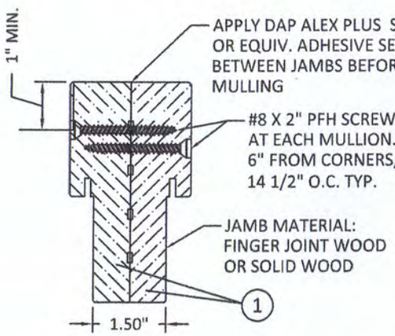


2/6 FIXED JAMB
OUTSWING SHOWN - INSWING SIMILAR

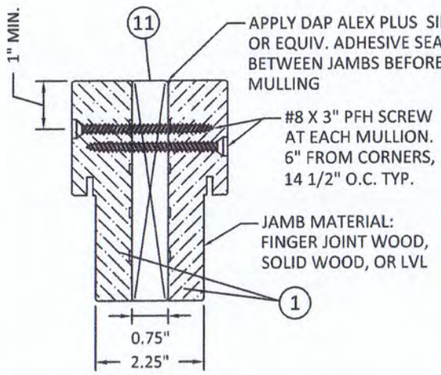


3/6 HINGE JAMB
OUTSWING SHOWN - INSWING SIMILAR

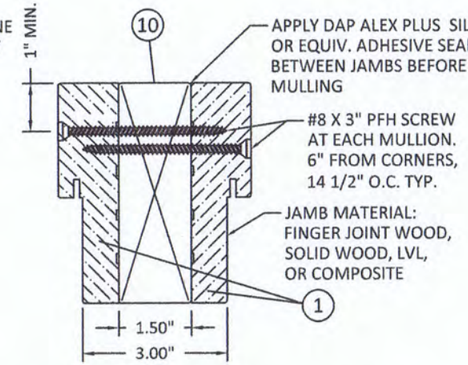
HINGE SCHEDULE	
DOOR HEIGHT	QUANTITY
6'-8"	3
8'-0"	4



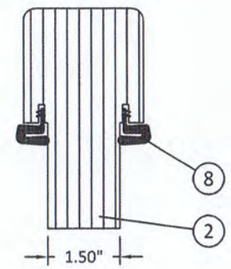
4/6 BACK-TO-BACK JAMB
NO MULLION REINFORCEMENT



5/6 BACK-TO-BACK JAMB
1X MULLION REINFORCEMENT

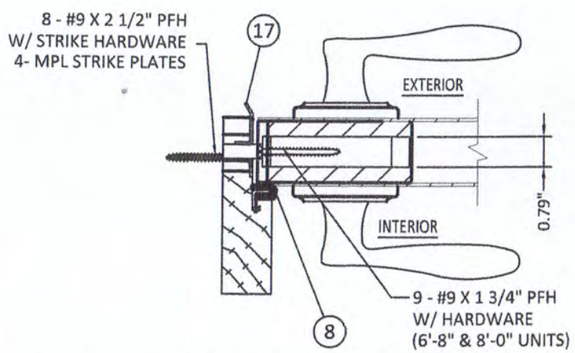


6/6 BACK-TO-BACK JAMB
2X MULLION REINFORCEMENT

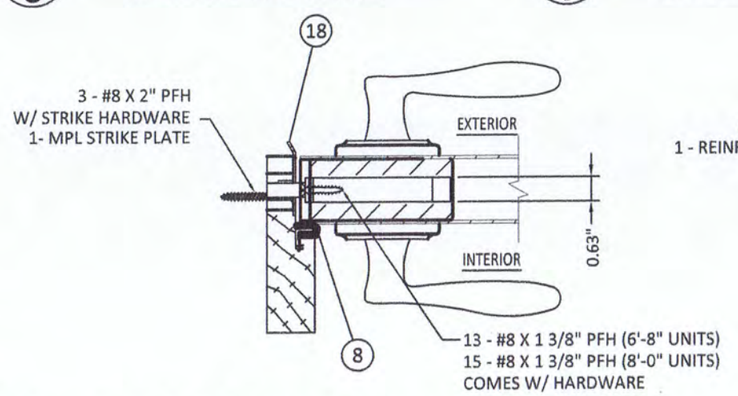


7/6 INTEGRAL MULLION
FOR 6'8" AND 8'0" UNITS

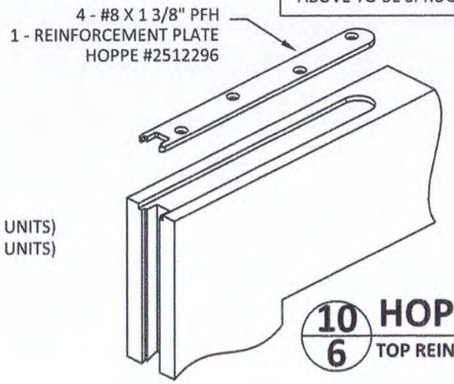
NOTES:
-ALL WOOD FRAME MEMBERS USED IN MULLION ASSEMBLIES ABOVE TO BE PONDEROSA PINE (MIN. S.G. = 0.45) OR GREATER.
-ALL WOOD 1x AND 2x REINFORCEMENTS USED IN MULLION ASSEMBLIES ABOVE TO BE SPRUCE/PINE/FIR (MIN. S.G. = 0.42) OR GREATER.



8/6 ROCKWELL MULTI-POINT LOCK
OUTSWING SHOWN - INSWING SIMILAR



9/6 HOPPE MULTI-POINT LOCK
OUTSWING SHOWN - INSWING SIMILAR



10/6 HOPPE MULTI-POINT LOCK
TOP REINFORCEMENT PLATE - ACTIVE PANEL ONLY

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JELD-WEN WINDOWS & DOORS

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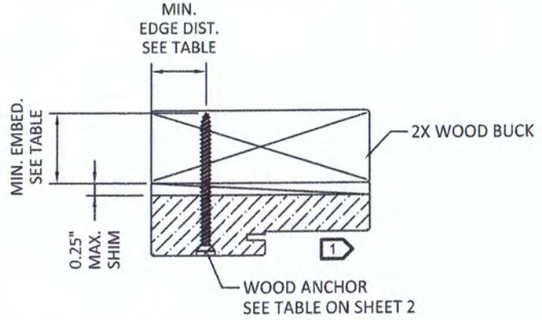
STATE OF OREGON
ALEXIS SPYROU
102957
LICENSED PROFESSIONAL ENGINEER

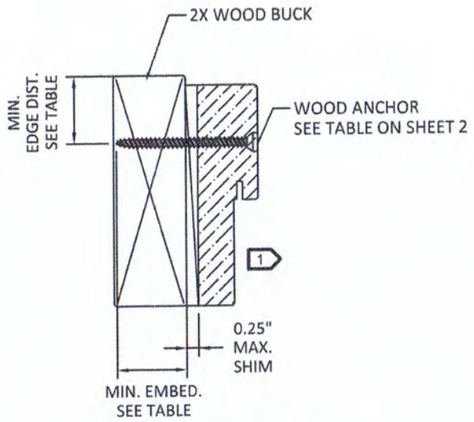
ALEXIS SPYROU
TEXAS P.E. NO. 102957
398 DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

DATE: 07.10.14
DWG. BY: GL
CHK. BY: SS
SCALE: NTS
DWG. #: A011008
SHEET: 6 OF 9



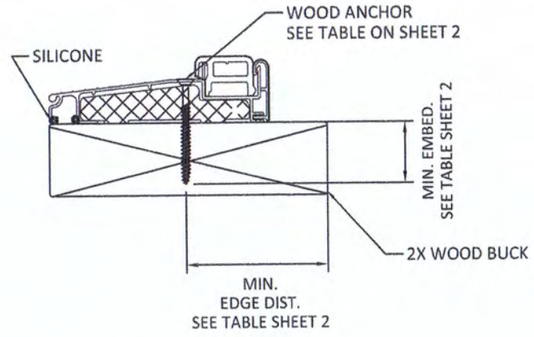
1/7 HEAD (TYPICAL)

OUTSWING SHOWN - INSWING SIMILAR



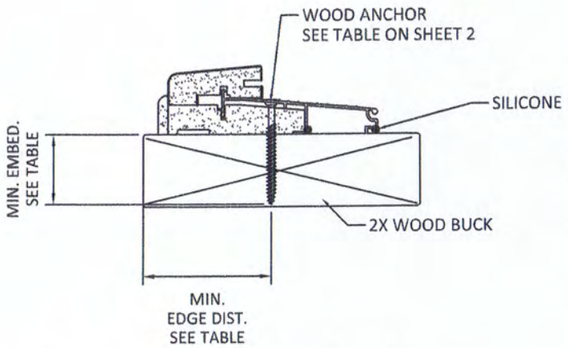
2/7 JAMB (TYPICAL)

OUTSWING SHOWN - INSWING SIMILAR



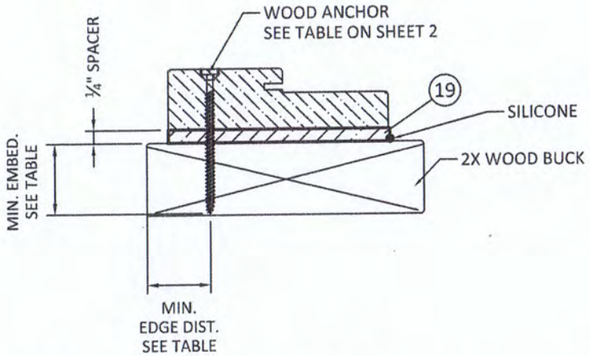
3/7 OPERABLE SILL

INSWING
ENDURA ZAIL4565F



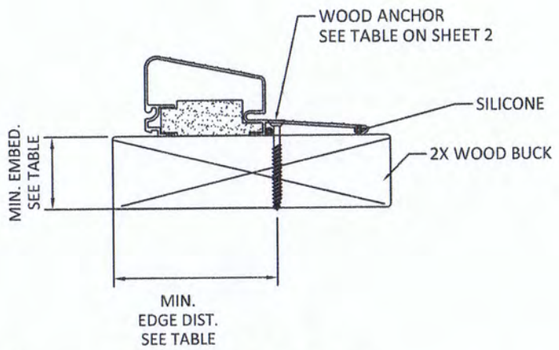
4/7 OPERABLE SILL

OUTSWING
AFCO J-2297



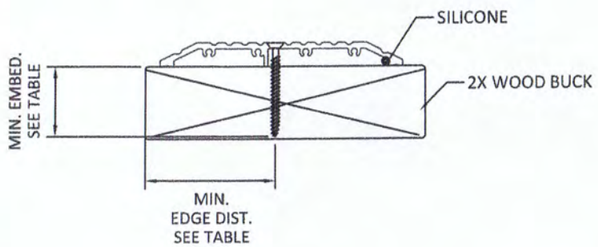
5/7 SIDELITE SILL

OUTSWING SHOWN - INSWING SIMILAR



7/7 OPERABLE SILL

HIGH BUMP OUTSWING
AFCO H-497



8/7 OPERABLE ADA SILL

INSWING/OUTSWING - NO ANCHOR REQUIRED
ENDURA HCI5000

1 OPTIONALLY, ANCHOR CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT AND EDGE DISTANCE ARE ACHIEVED.

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WOOD INSTALLATION

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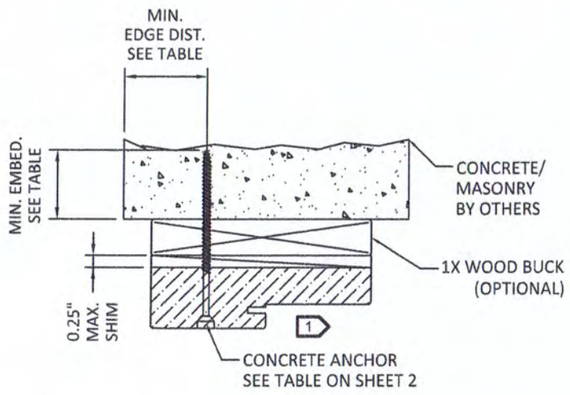
STATE OF TEXAS
ALEXIS SPYROU
102957
LICENSED
PROFESSIONAL ENGINEER

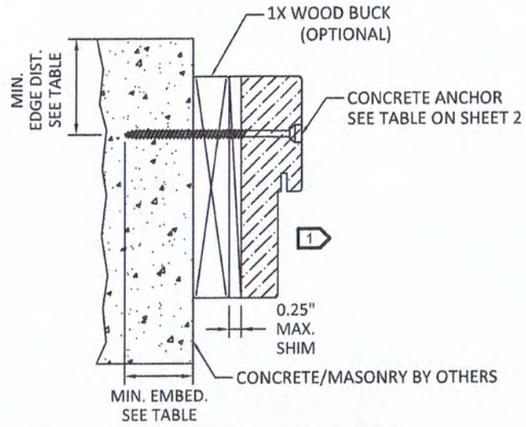
ALEXIS SPYROU
TEXAS P.E. NO. 102957
398 DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

DATE: 07.10.14
DWG. BY: GL
CHK. BY: SS
SCALE: NTS
DWG. #: A011008
SHEET: 7 OF 9



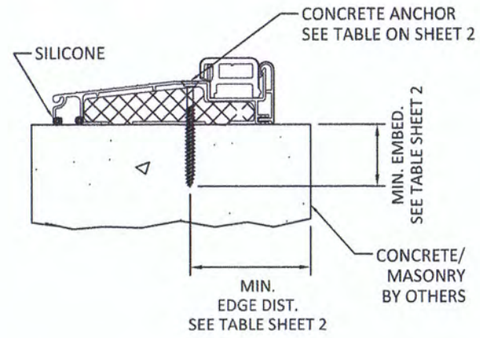
1/8 HEAD (TYPICAL)

OUTSWING SHOWN - INSWING SIMILAR



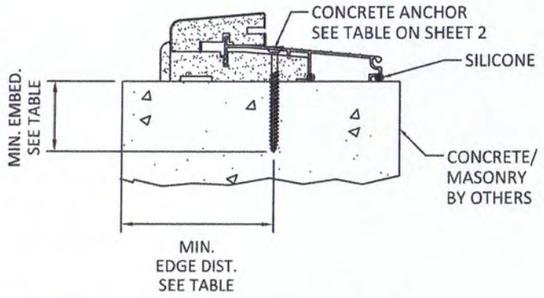
2/8 JAMB (TYPICAL)

OUTSWING SHOWN - INSWING SIMILAR



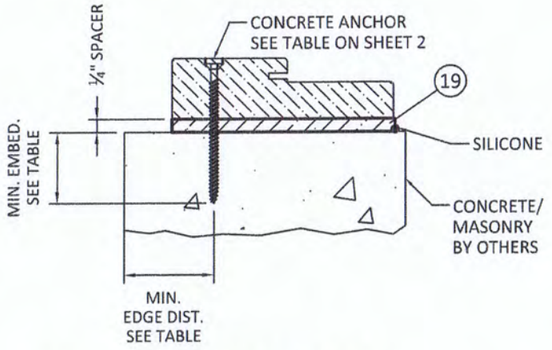
3/8 OPERABLE SILL

INSWING
ENDURA ZAIL4565F



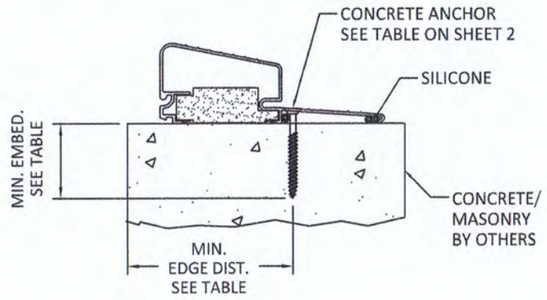
4/8 OPERABLE SILL

OUTSWING
AFCO J-2297



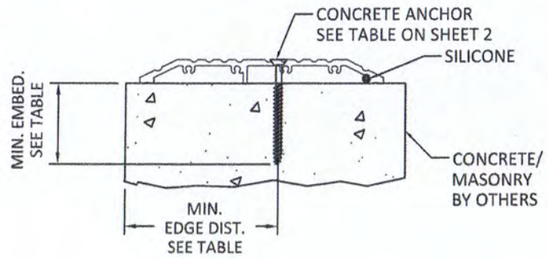
5/8 SIDELITE SILL

OUTSWING SHOWN - INSWING SIMILAR



7/8 OPERABLE SILL

HIGH BUMP OUTSWING
AFCO H-497



8/8 OPERABLE SILL

OUTSWING/INSWING - NO ANCHOR REQUIRED
ENDURA HCI5000 ADA

[1] OPTIONALLY, ANCHOR CAN BE PLACED IN NARROW SECTION OF HEAD OR JAMB AS LONG AS MINIMUM EMBEDMENT AND EDGE DISTANCE ARE ACHIEVED.

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JELD-WEN WINDOWS & DOORS

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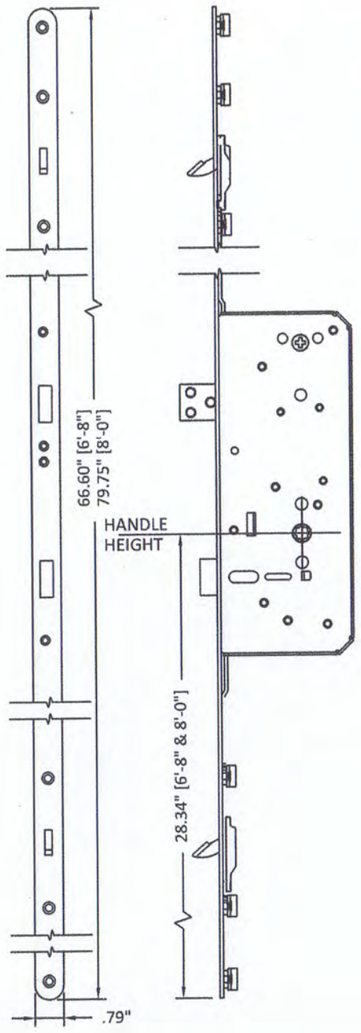
ALEXIS SPYROU
102957
LICENSED
PROFESSIONAL ENGINEER

ALEXIS SPYROU
TEXAS P.E. NO. 102957
398 DANIA BEACH BLVD. STE. 338
DANIA BEACH, FL 33004
TBPE FIRM NO. 13734

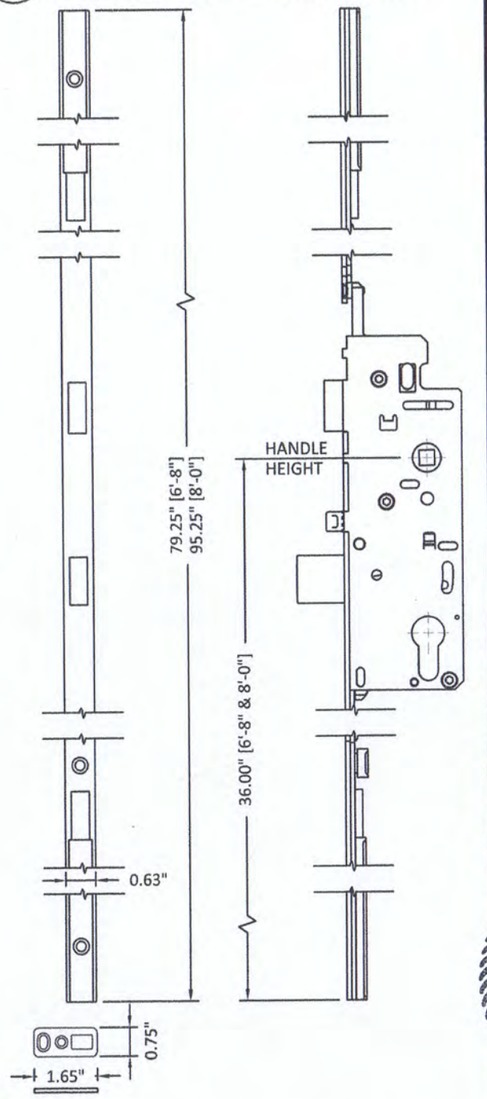
DATE: 07.10.14
DWG. BY: GL
CHK. BY: SS
SCALE: NTS
DWG. #: A011008
SHEET: 8 OF 9

BILL OF MATERIALS		
ITEM#	DESCRIPTION	MATERIAL
1	FRAME HEAD/JAMBS	FINGER-JOINTED PINE
		SOLID PINE
		LAMINATED VENEER LUMBER
		COMPOSITE
2	INTEGRAL MULL	LAMINATED VENEER LUMBER
3	SIDELITE STOP	WOOD OR PVC
4	ENDURA ZAIL4565F THRESHOLD	-
5	AFCO J-2297 THRESHOLD	-
6	ENDURA HCI5000 ADA THRESHOLD	-
7	AFCO H-497 THRESHOLD	-
8	WEATHERSTRIP	URETHANE FOAM & POLYETHYLENE
9	NON-COMPRESSION SHIM (0.25" MAX. THK.)	COMPOSITE
10	2X WOOD (S.G. MUST BE 0.42 OR GREATER)	WOOD
11	1X WOOD (S.G. MUST BE 0.42 OR GREATER)	WOOD
12	#10 WOOD INSTALLATION SCREW W/ 1 1/2" MIN. EMBEDMENT	STEEL
13	CONC./CMU ANCHOR (SEE ANCHOR TABLE SHEETS 2 & 4)	STEEL
14	1" O.A. IG TEMPERED NON-IMPACT GLASS	-
15	KWIKSET LOCK SERIES 400	STEEL
16	KWIKSET DEADBOLT SERIES 780	STEEL
17	ROCKWELL MULTI-POINT TONGUE LATCH # 73228768 6-8 UNIT ROCKWELL MULTI-POINT TONGUE LATCH #73228780 8-0 UNIT	STEEL
18	HOPPE MULI-POINT HARDWARE HLS9000	STEEL
19	PRESSURE TREATED SILL SPACER USED FOR FIXED PANEL	WOOD
20	ODL LIPLITE KIT (NI)	PLASTIC
21	FLUSH GLAZING LEG	FIBERGLASS
22	*(NOT USED)*	-
23	ODL LIPLITE KIT (RADIUS LITES)	PLASTIC
24	BUTT HINGE (SEE SCHEDULE SHEET 6)	STEEL
25	HOPPE MULI-POINT HEAD SHOOT BOLT PLATE LH #8784091	STEEL
26	HOPPE MULI-POINT HEAD SHOOT BOLT PLATE RH #8783923	STEEL

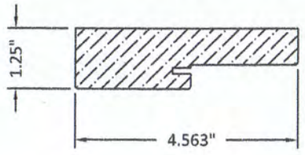
17 ROCKWELL MULT-POINT LOCK



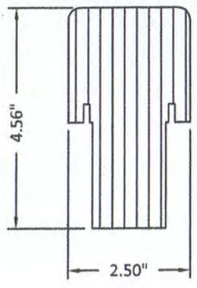
18 HOPPE MULT-POINT LOCK
W/ SILL SHOOT BOLT PLATE #2098911



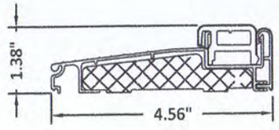
1 FRAME HEAD/JAMBS
VARIES, SEE BOM ABOVE



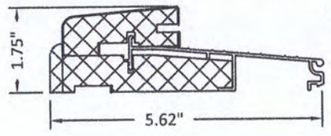
2 INTEGRAL MULLION
LAMINATED VENEER LUMBER



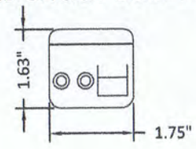
4 ENDURA ZAIL4565F THRESHOLD



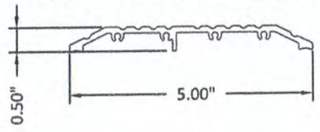
5 AFCO J-2297 THRESHOLD



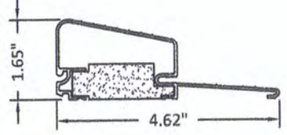
25 HEAD SHOOT BOLT PLATE (LH)



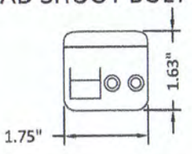
6 ENDURA HCI5000 ADA THRESHOLD



7 AFCO H-497 THRESHOLD



26 HEAD SHOOT BOLT PLATE (RH)



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102957
LICENSED
PROFESSIONAL ENGINEER

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DATE: 07.10.14
DWG. BY: GL
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SCALE: NTS
DWG. #: A011008
SHEET: 9 OF 9