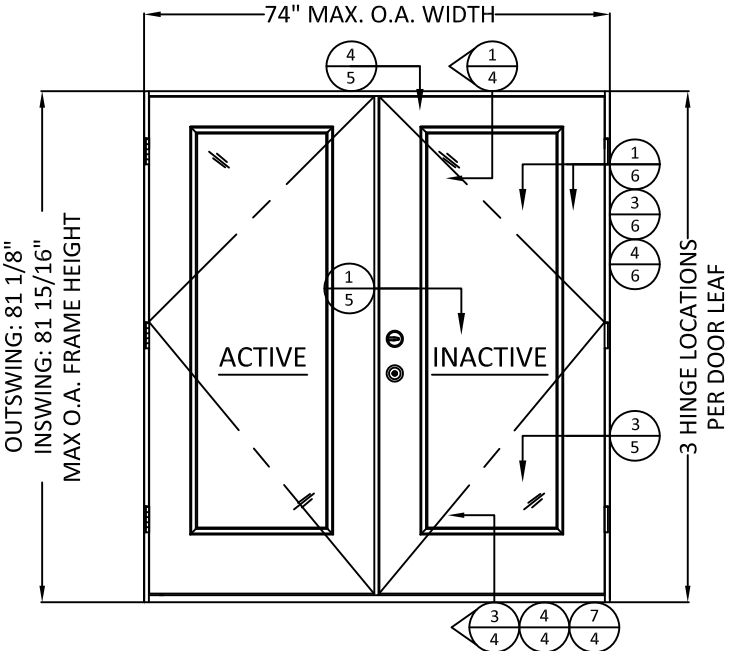


DESIGN PRO / SMOOTH PRO FULL LITE
NON-IMPACT

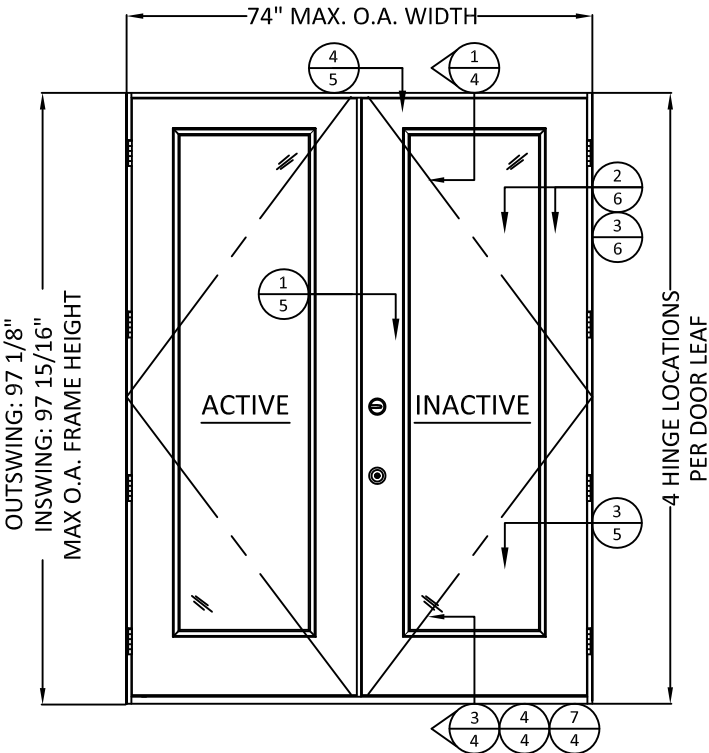
GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC), 2018 INTERNATIONAL BUILDING CODE (IBC), AND TEXAS REVISIONS, AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E330-02
 - ASTM E283-04
 - AAMA 1304-02
- 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.
- 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 6 FOR GLAZING DETAIL.
- FULL LITE APPROVAL COVERS USE OF FRACTIONAL GLAZING, INCLUDING INTERNAL GRID, BLINDS BETWEEN GLASS, DECORATIVE, AND EXTERNAL AND INTERNAL WROUGHT IRON. RADIUS (SHAPED) LITES ARE QUALIFIED FOR 6'-8" DOORS AT DP +/-50 PSF ONLY.
- NOTE: AFCO H-497 SILL MEETS WATER INFILTRATION AT WATER TEST PRESSURE (WTP) OF 9.0 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

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



1 TYP. ELEVATION 1
6'-8" DOOR HEIGHT



2 TYP. ELEVATION 2
8'-0" DOOR HEIGHT

NOTE:
INACTIVE AND ACTIVE DOOR PANEL
ORIENTATION IS INTERCHANGEABLE.

CONFIGURATION	MAX. OVERALL NOMINAL SIZE		DESIGN PRESSURE (PSF)				MISSILE IMPACT RATING
	WIDTH	HEIGHT	INSWING		OUTSWING		
			POS.	NEG.	POS.	NEG.	
XX	6'-0"	6'-8"	50*	50	50*	50	NON-IMPACT
XX RADIUS	6'-0"	6'-8"	50*	50	50*	50	NON-IMPACT
XX	6'-0"	8'-0"	50*	50	50*	50	NON-IMPACT

*SEE GENERAL NOTE 7, SHEET 1, FOR WATER INFILTRATION APPROVED SILLS.

PREPARED BY:

TITLE: DESIGN PRO/SMOOTH PRO FULL LITE
NON-IMPACT

TYPICAL ELEVATIONS, DESIGN
PRESSURES, AND GENERAL NOTES

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(717) 846-1200

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SCALE: NTS

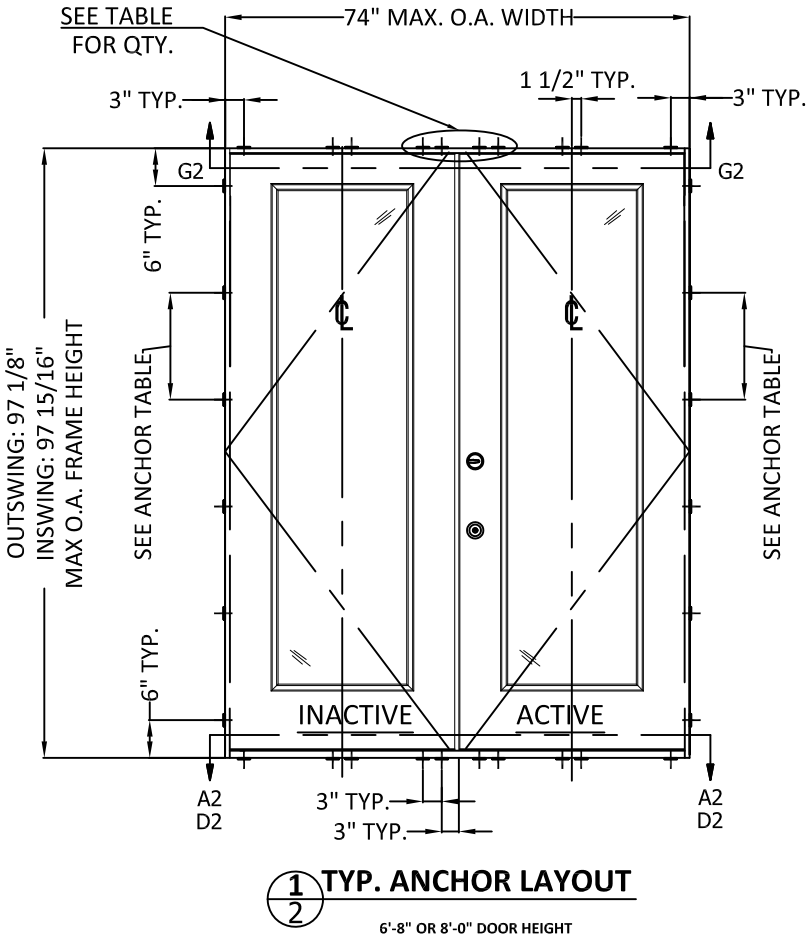
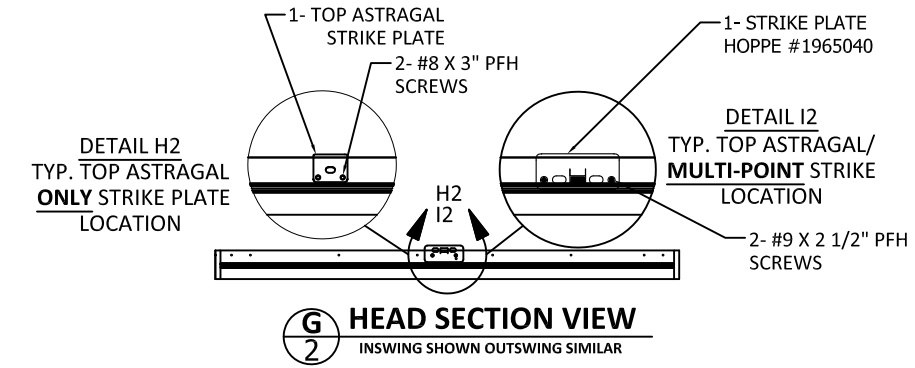
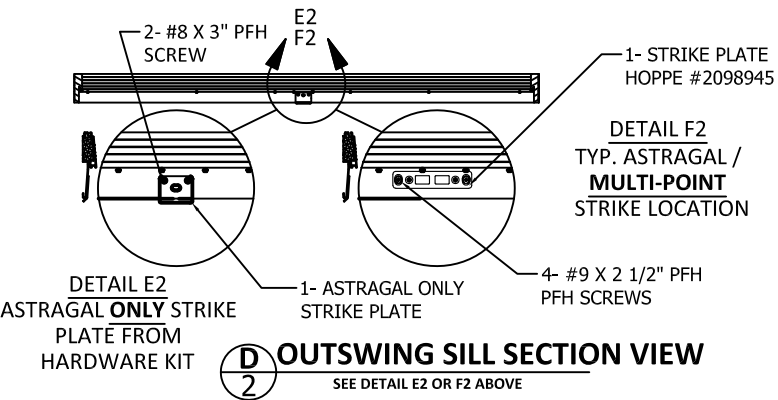
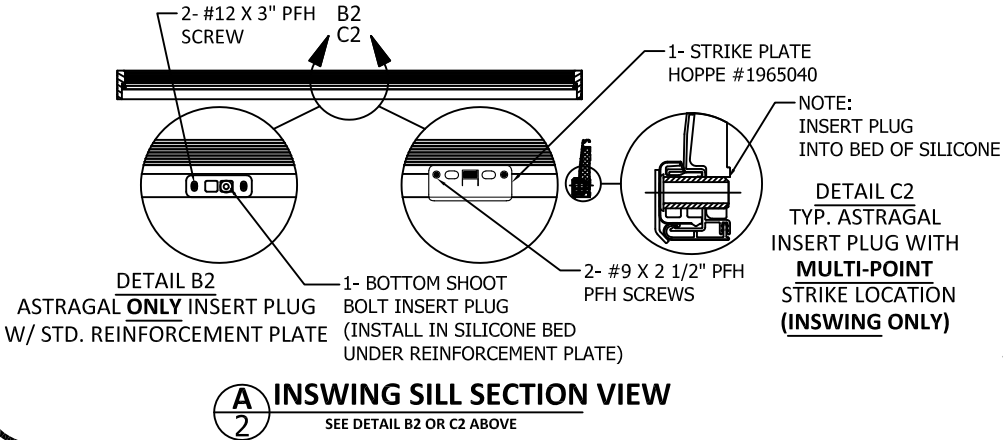
DWG. #: A010921

SHEET: OF 9

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- 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.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- 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.
- 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.
- FOR 2X STUD CONSTRUCTION, ANCHORING OF THESE PRODUCTS SHALL BE THE SAME AS FOR 2X BUCK CONCRETE/MASONRY CONSTRUCTION.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - 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.
 - HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
- SEE SHEETS 7 AND 8 FOR MORE DETAILS OF THE INSTALLATION REQUIREMENTS, INCLUDING ANCHOR LOCATIONS, EDGE DISTANCES, EMBEDMENTS, AND SHIM SPACING.
- 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"	1-1/8" - CONC. 2" - CMU	11-5/8"	8	14-3/8"	6



NOTE:
INACTIVE AND ACTIVE DOOR PANEL
ORIENTATION IS INTERCHANGEABLE.

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ANCHOR LAYOUTS AND NOTES

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TITLE: DESIGN PRO/SMOOTH PRO FULL LITE
NON-IMPACT
OPTIONAL 2X BUCK
ANCHORING DETAILS

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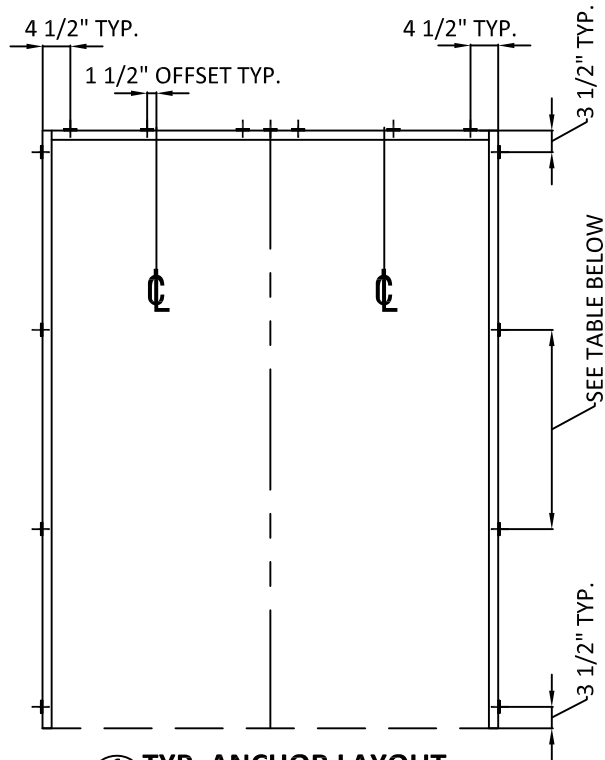
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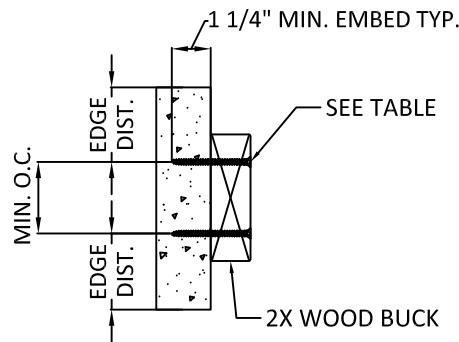
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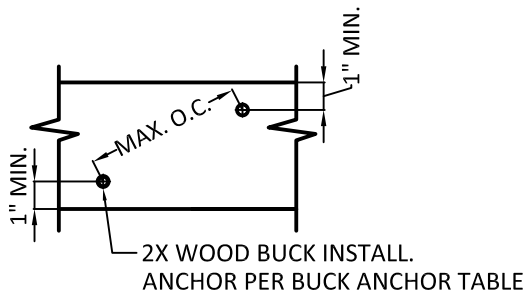
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1 TYP. ANCHOR LAYOUT
3 OPTIONAL 2X BUCK IN CONCRETE/MASONRY



3 2X WOOD BUCK INSTALL.
3 CROSS SECTION

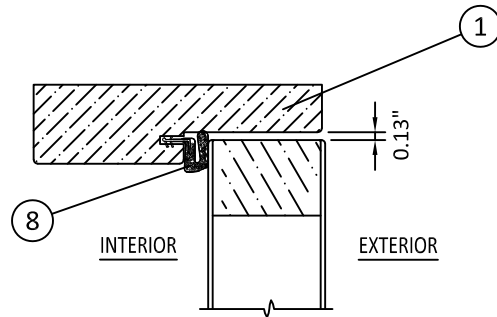


4 2X WOOD BUCK INSTALL.
3 SIDE VIEW

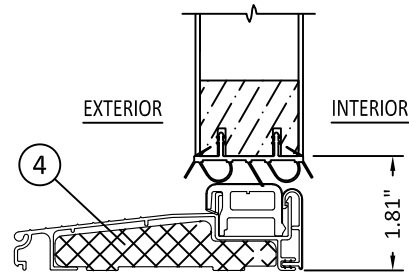
NOTES:

- 2X BUCK IS NOT FOR INSTALLATION AT SILL. THRESHOLD SHALL BE FASTENED IN ACCORDANCE WITH ANCHOR LOCATIONS SHOWN ON SHEET 2.
- ANCHORS MAY BE STAGGERED AS SHOWN IN DETAIL 4/3.

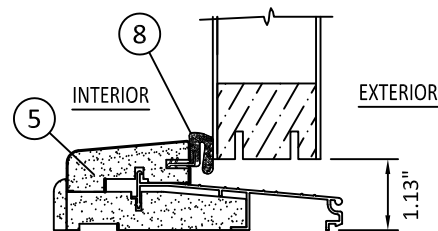
2X BUCK ANCHOR TABLE							
ANCHOR TYPE	ANCHOR SIZE	SUBSTRATE	MIN. EMBEDMENT	MIN. EDGE DIST. TO SUBSTRATE	MIN. CENTER TO CENTER DISTANCE	6'8" DOORS	8'0" DOORS
						MAX. O.C. SPACING AT JAMBS	MAX. O.C. SPACING AT JAMBS
ITW TAPCON	1/4"	CONCRETE/CMU	1-1/4"	2-1/2"	4"	25"	30-1/4"
ELCO ULTRA CON	1/4"	CONCRETE/CMU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



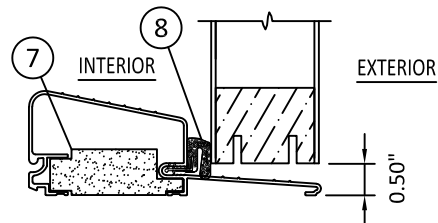
1
4 **OPERABLE HEAD**
OUTSWING SHOWN - INSWING SIMILAR



3
4 **OPERABLE SILL**
INSWING



4
4 **OPERABLE SILL**
OUTSWING



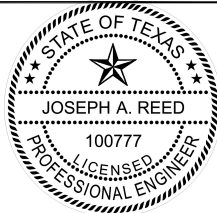
7
4 **OPERABLE SILL**
OUTSWING

TITLE: DESIGN PRO/SMOOTH PRO FULL LITE
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VERTICAL ASSEMBLIES

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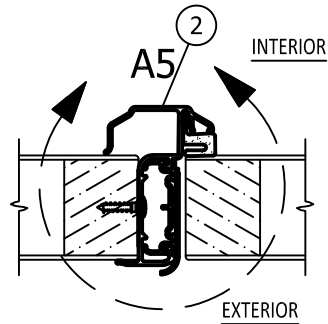
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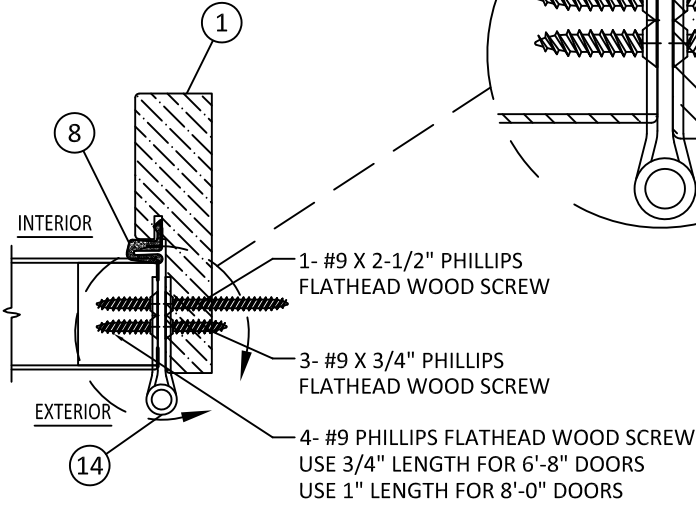
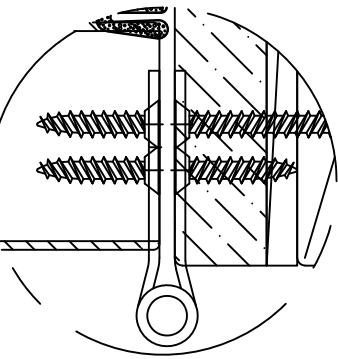
DWG. #: A010921

SHEET: OF 9



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

HINGE DETAIL AT JAMB:
PLACE #9 X 2-1/2" PFH SCREW NEXT TO WEATHERSTRIP



15

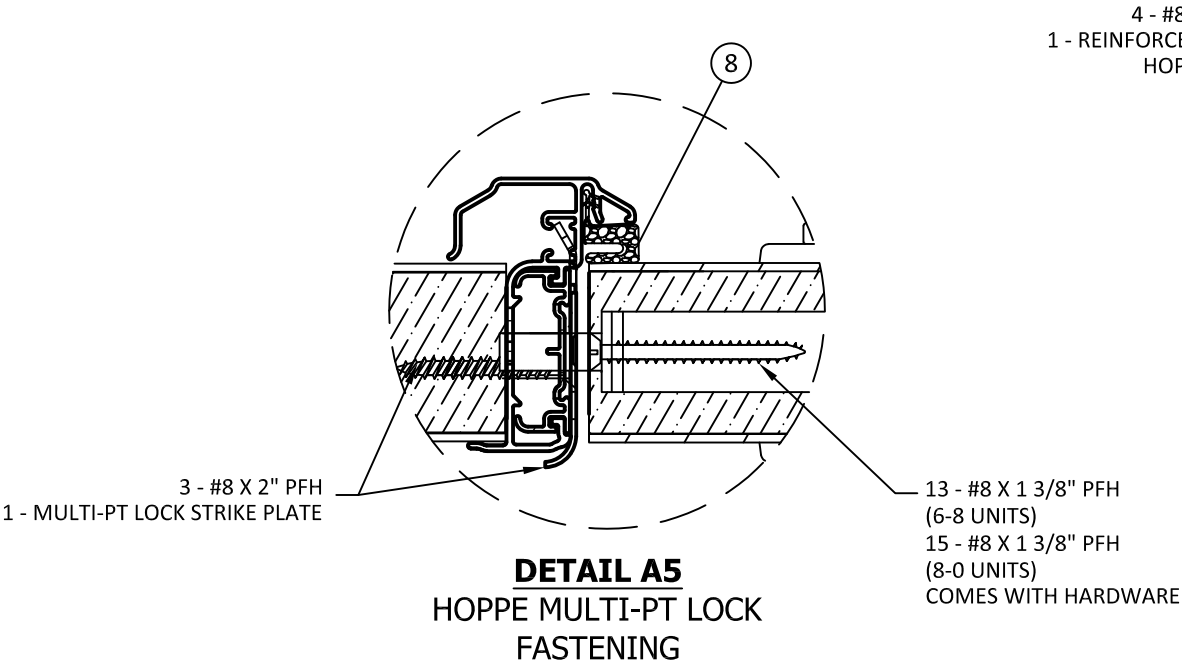
MEETING STILE

OUTSWING SHOWN - INSWING SIMILAR

35

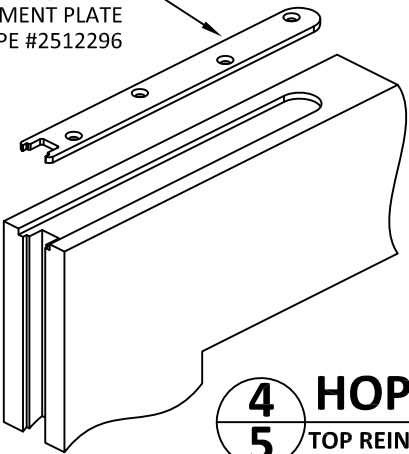
HINGE JAMB

OUTSWING SHOWN - INSWING SIMILAR



DETAIL A5
HOPPE MULTI-PT LOCK
FASTENING

4 - #8 X 1 3/8" PFH
1 - REINFORCEMENT PLATE
HOPPE #2512296



45

HOPPE MULTI-POINT LOCK

TOP REINFORCEMENT PLATE - ACTIVE PANEL ONLY

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TITLE:

DESIGN PRO/SMOOTH PRO FULL LITE
NON-IMPACT
HORIZONTAL ASSEMBLIES

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★
JOSEPH A. REED
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LICENSED
PROFESSIONAL ENGINEER

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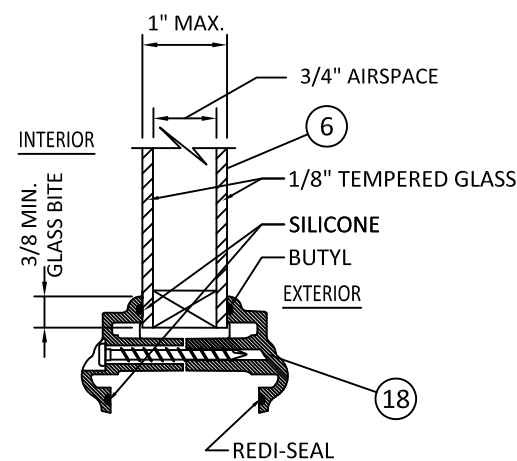
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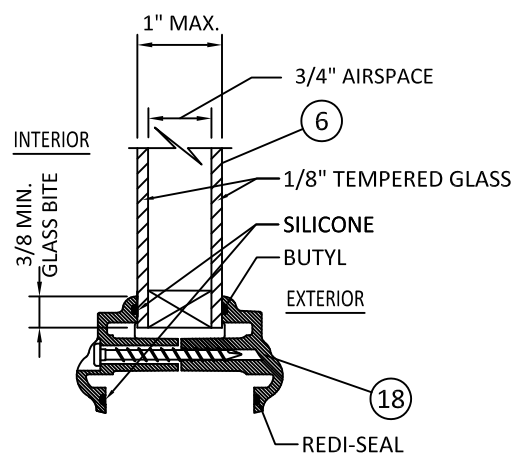
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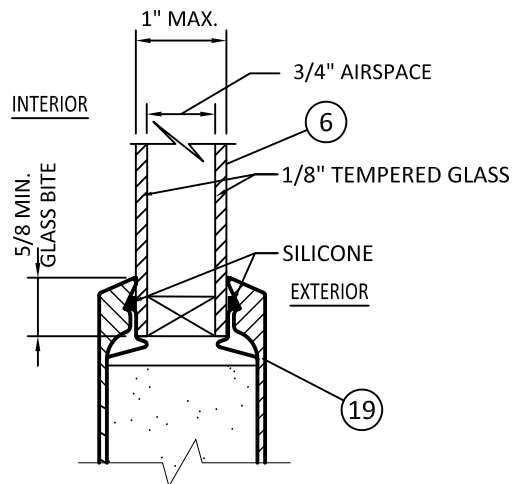
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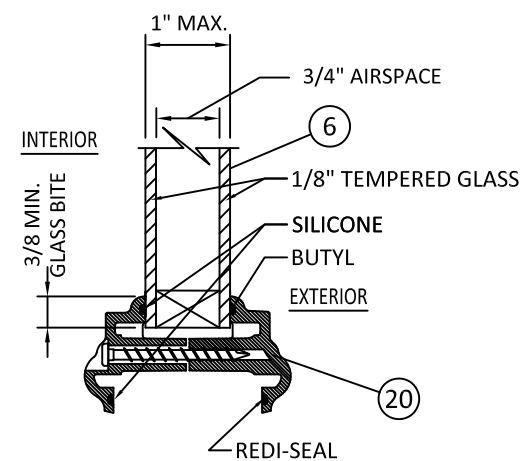
1 6'-8" GLAZING DETAIL
20 1/2" MAX. D.L.O. WIDTH
62 1/2" MAX. D.L.O. HEIGHT



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



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



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

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.

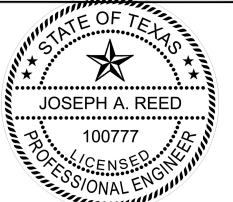
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GLAZING DETAILS

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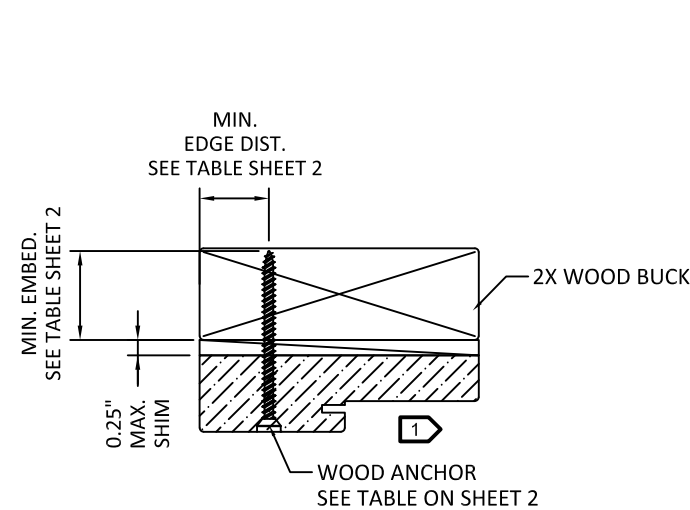
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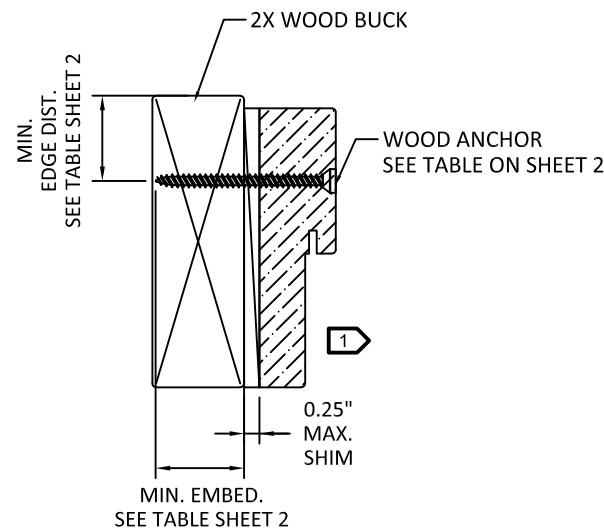
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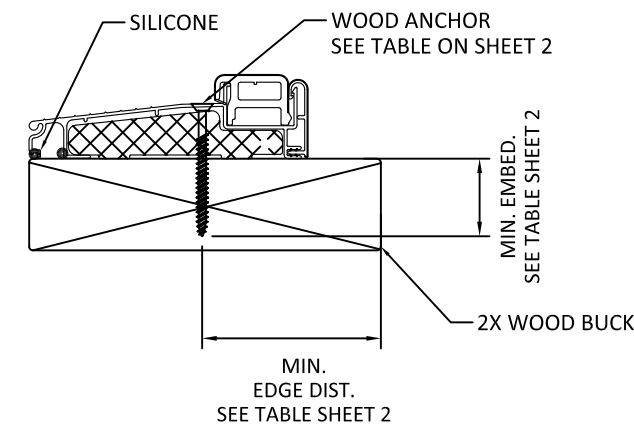
SHEET: OF 9



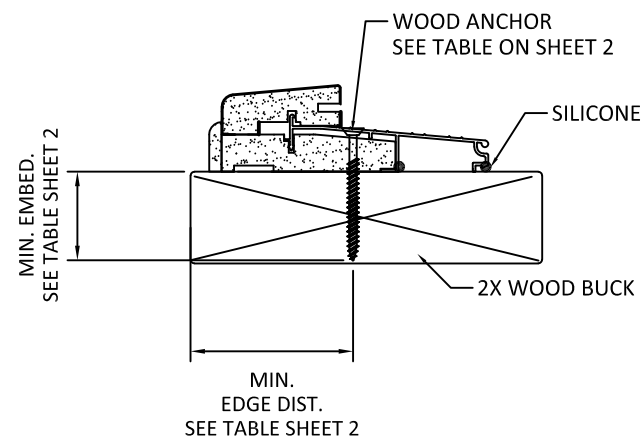
1
7 **HEAD (TYPICAL)**
OUTSWING SHOWN - INSWING SIMILAR



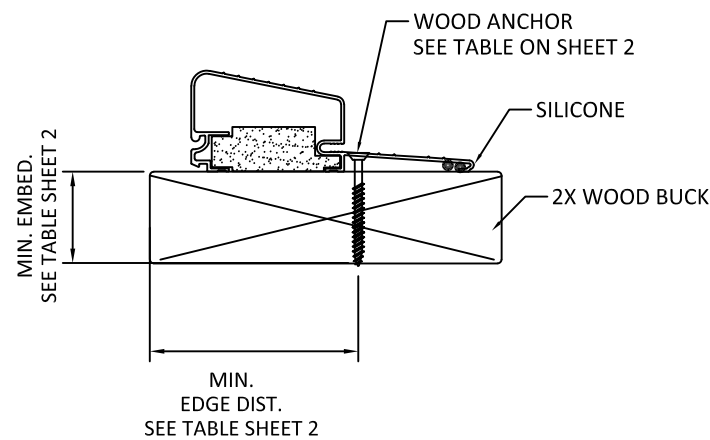
2
7 **JAMB (TYPICAL)**
OUTSWING SHOWN - INSWING SIMILAR



3
7 **OPERABLE SILL**
INSWING



4
7 **OPERABLE SILL**
OUTSWING



7
7 **OPERABLE SILL**
HIGH BUMP OUTSWING

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

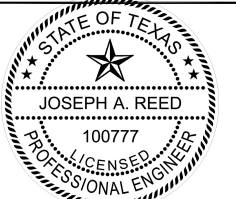
PREPARED BY:

TITLE: **DESIGN PRO/SMOOTH PRO FULL LITE NON-IMPACT WOOD INSTALLATION**

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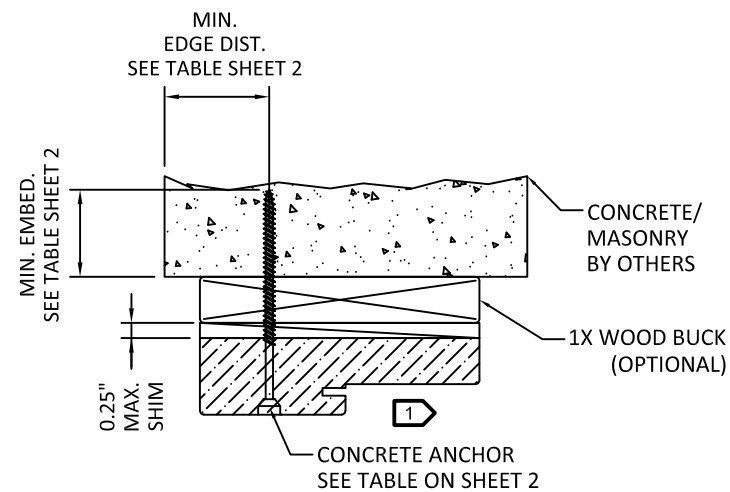
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DWG. BY: **GL** CHK. BY: **SS**

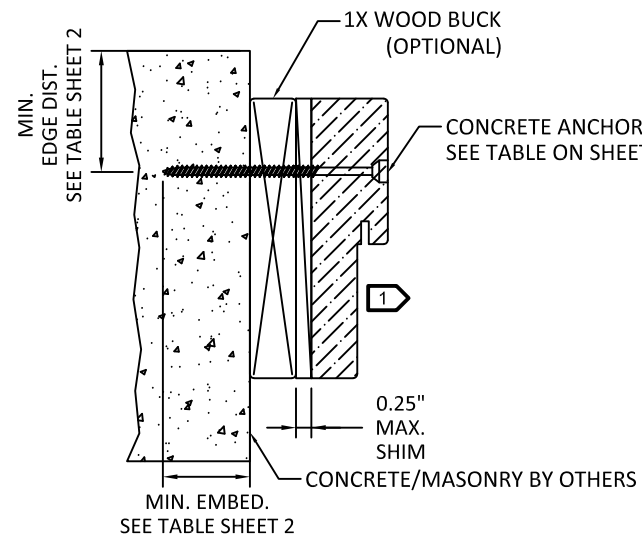
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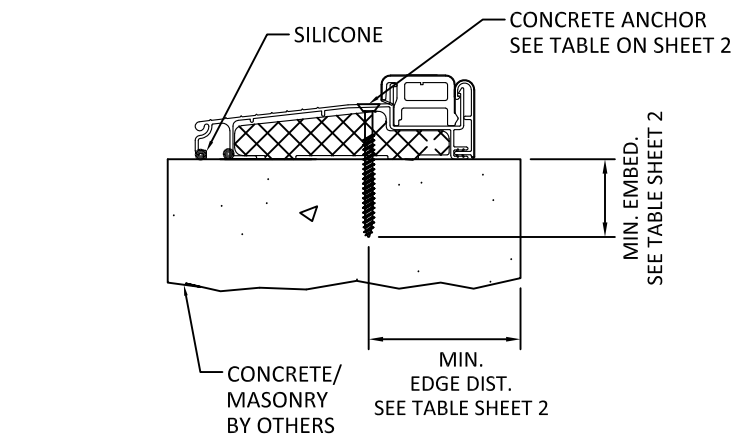
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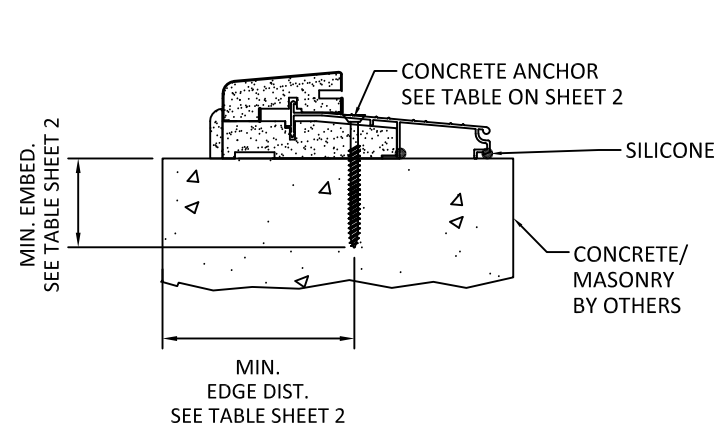
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8 **HEAD (TYPICAL)**
OUTSWING SHOWN - INSWING SIMILAR



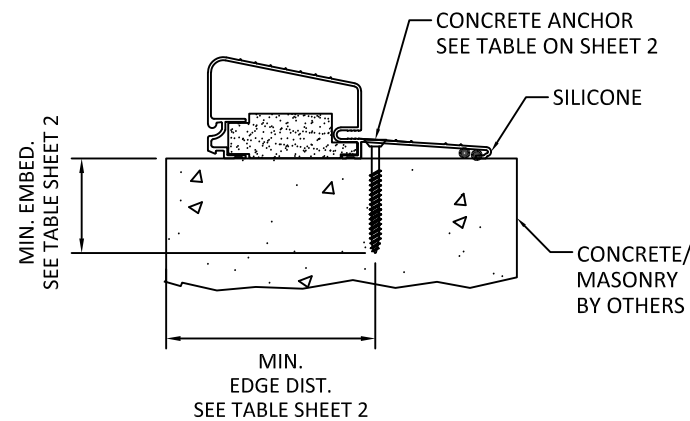
2
8 **JAMB (TYPICAL)**
OUTSWING SHOWN - INSWING SIMILAR



3
8 **OPERABLE SILL**
INSWING



4
8 **OPERABLE SILL**
OUTSWING



7
8 **OPERABLE SILL**
HIGH BUMP OUTSWING

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

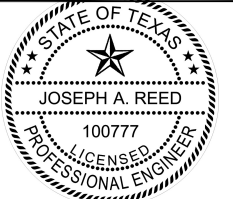
PREPARED BY:

TITLE: **DESIGN PRO/SMOOTH PRO FULL LITE
NON-IMPACT
CONCRETE INSTALLATION**

3737 LAKEPORT BLVD.,
KLAMATH FALLS, OR 97601
PH: (541)882-3451
FAX: (541)850-2609

REMARKS	BY	DATE

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Joseph A. Reed

2021.12.07 11:32:01 -05'00'
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DATE: **10.19.2021**

DWG. BY: **GL** CHK. BY: **SS**

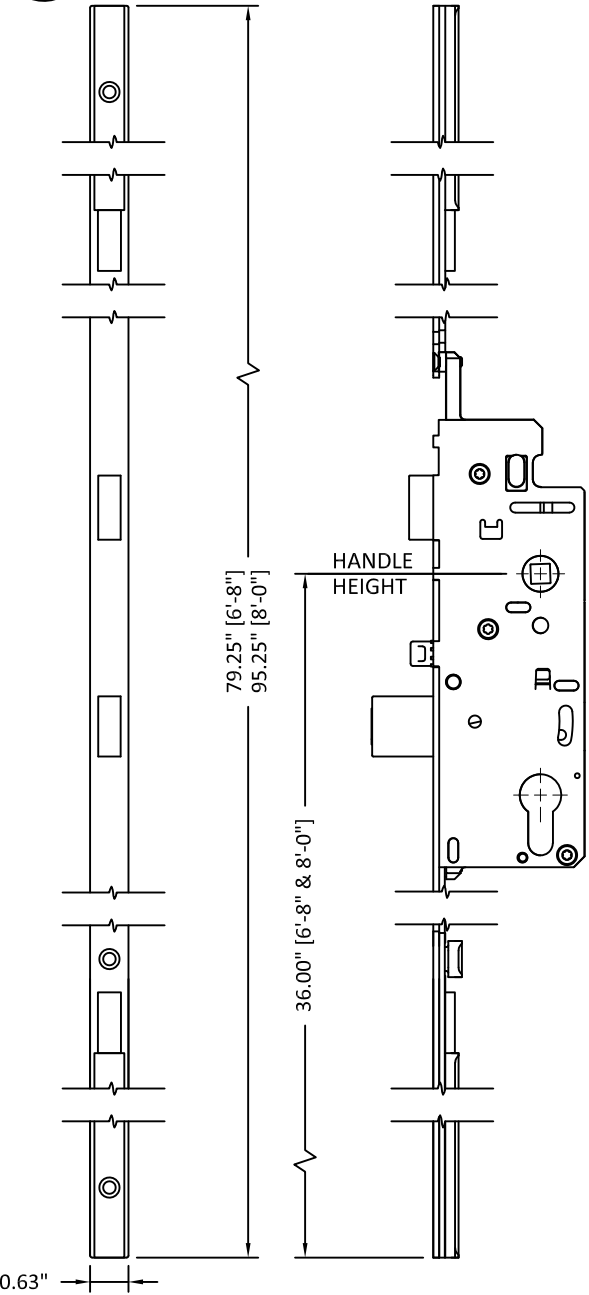
SCALE: **NTS**

DWG. #: **A010921**

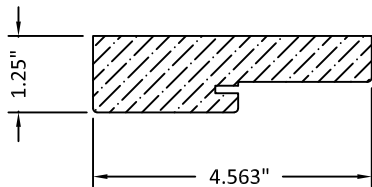
SHEET: OF 9

BILL OF MATERIALS		
ITEM#	DESCRIPTION	MATERIAL
1	FRAME HEAD/JAMBS	FINGER-JOINTED PINE
		SOLID PINE
		LAMINATED VENEER LUMBER
		COMPOSITE
2	ASTRAGAL, ENDURA ULTIMATE HURRICANE (SEE SHEET 2 FOR HARDWARE AND FASTENING DETAILS)	6063-T6 ALUMINUM
3	(NOT USED)	-
4	THRESHOLD	-
5	THRESHOLD	-
6	1" O.A. IG TEMPERED NON-IMPACT GLASS	-
7	THRESHOLD	-
8	WEATHERSTRIP	URETHANE FOAM & POLYETHYLENE
9	NON-COMPRESSSION SHIM (0.25" MAX. THK.)	COMPOSITE
10	2X WOOD (S.G. MUST BE 0.55 OR GREATER)	WOOD
11	1X WOOD (S.G. MUST BE 0.55 OR GREATER)	WOOD
12	#10 WOOD INSTALLATION SCREW W/ 1 1/2" MIN. EMBEDMENT	STEEL
13	CONC./CMU ANCHOR (SEE ANCHOR TABLE SHEETS 2 & 3)	STEEL
14	BUTT HINGE (SEE SCHEDULE SHEET 5)	-
15	KWIKSET LOCK SERIES 400	STEEL
16	KWIKSET DEADBOLT SERIES 780	STEEL
17	HOPPE MULI-POINT HARDWARE HLS9000 (SEE SHEET 2 FOR HARDWARE AND FASTENING DETAILS)	STEEL
18	ODL LIPLITE KIT (NI)	PLASTIC
19	FLUSH GLAZING LEG	FIBERGLASS
20	ODL LIPLITE KIT (RADIUS LITES)	PLASTIC

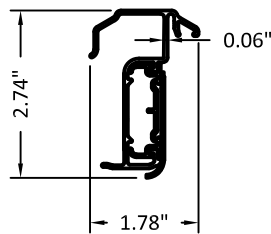
17 HOPPE MULT-POINT LOCK



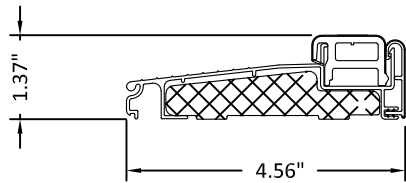
1 FRAME HEAD/JAMBS
VARIES, SEE BOM ABOVE



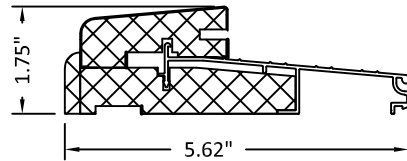
2 ENDURA ASTRAGAL
ALUMINUM



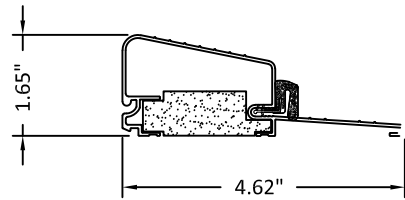
4 THRESHOLD



5 THRESHOLD



7 THRESHOLD



PREPARED BY:

TITLE: DESIGN PRO/SMOOTH PRO FULL LITE
NON-IMPACT

COMPONENTS AND BILL OF MATERIALS

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