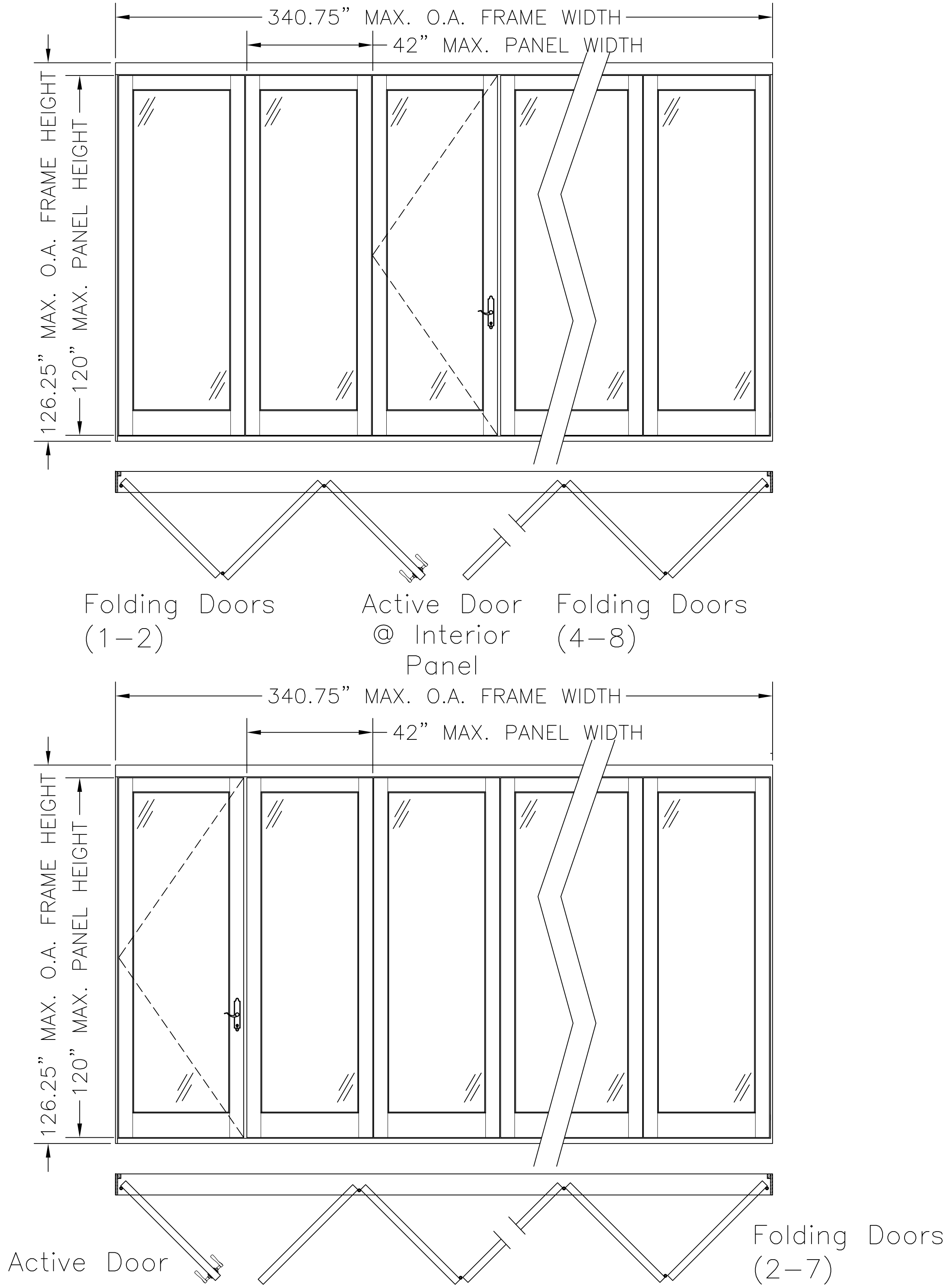


BIFOLDING DOOR PANEL SYSTEM – EXTERIOR FOLDING DOOR – OUTSWING – ”IMPACT”
BY OWW LLC

DESIGN PRESSURE = + 55.0 PSF, – 55.0 PSF

GENERAL NOTES

1. This product has been evaluated and is in compliance with 8th Edition (2023) Florida Building Code (FBC) structural requirements for use outside the ”High Velocity Hurricane Zone” (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base materials shall be beyond wall dressing or stucco. All anchors used shall be of a material or have a coating compatible with pressure treated wood if used, and all other window materials.
3. When used in areas requiring wind borne debris protection, this product complies with Section 1609.1.2 of the FBC and does not require an impact resistant covering. This product meets missile level ”D” and includes Wind Zone 4 as defined in ASTM E1996 and FBC Sections 1609.1.2 & R301.2.1.2.
4. The opening substrate materials (framing, masonry, bucks) are by others and must be properly designed and installed to transfer superimposed loads to the structure. For 2X stud framing construction, anchoring of these units shall be the same as that shown for 2X buck masonry construction. Wood bucks over masonry, if used, shall be pressure treated, with either a treatment or coating compatible with this product and anchors.
5. Active door and folding door panels may be interchanged with a configuration including up to 8 panels maximum allowed.
6. This product has been laboratory tested to meet the water infiltration requirements for ”HVHZ” when used with the sill assembly extension. Sealing and flashing stratethdies for overall water infiltration resistance of the field–installed product shall be the responsibility of others and are not addressed by this document.
7. This product does not meet the water infiltration requirements when used without the sill assembly extension and shall be installed only in non–habital areas or where protected by an overhang or canopy such that the angle between the edge of the overhang or canopy to sill is less than 45 degrees. Sealing and flashing strategies for overall water infiltration resistance of the field–installed product shall be the responsibility of others and are not addressed by this document.
8. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.



Lucas Turner
2023.10.18
21:58:44
-05'00'



10/18/2023

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Ph. 561-478-7233 Fax 561-478-7858

Product: BIFOLDING DOOR PANEL SYSTEM #1
EXTERIOR FOLDING DOOR – OUTSWING – ”IMPACT”
TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

Date: 11 – 19 – 14
Scale: None
Drawn: JDS

Dwg: Bifold
FL34944.1

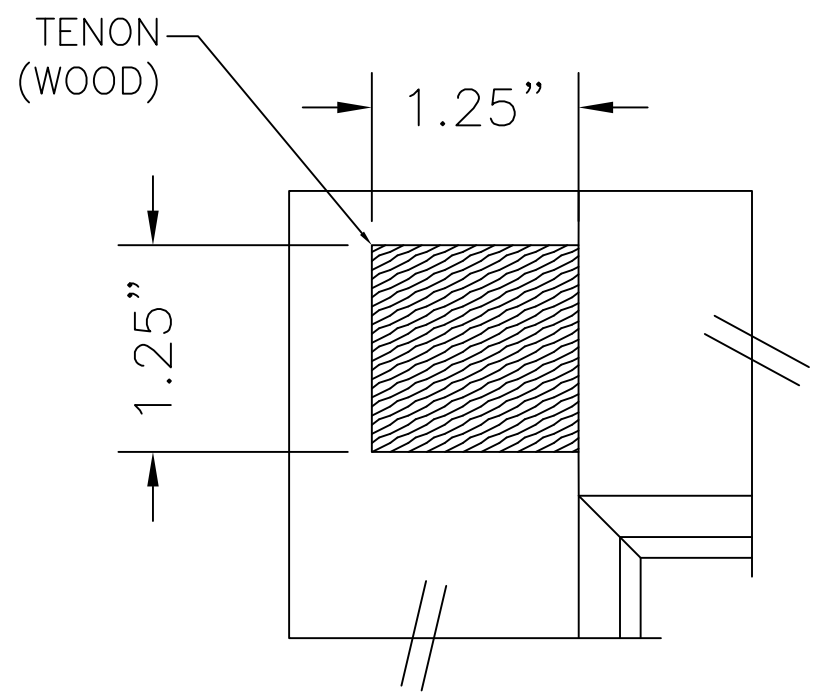
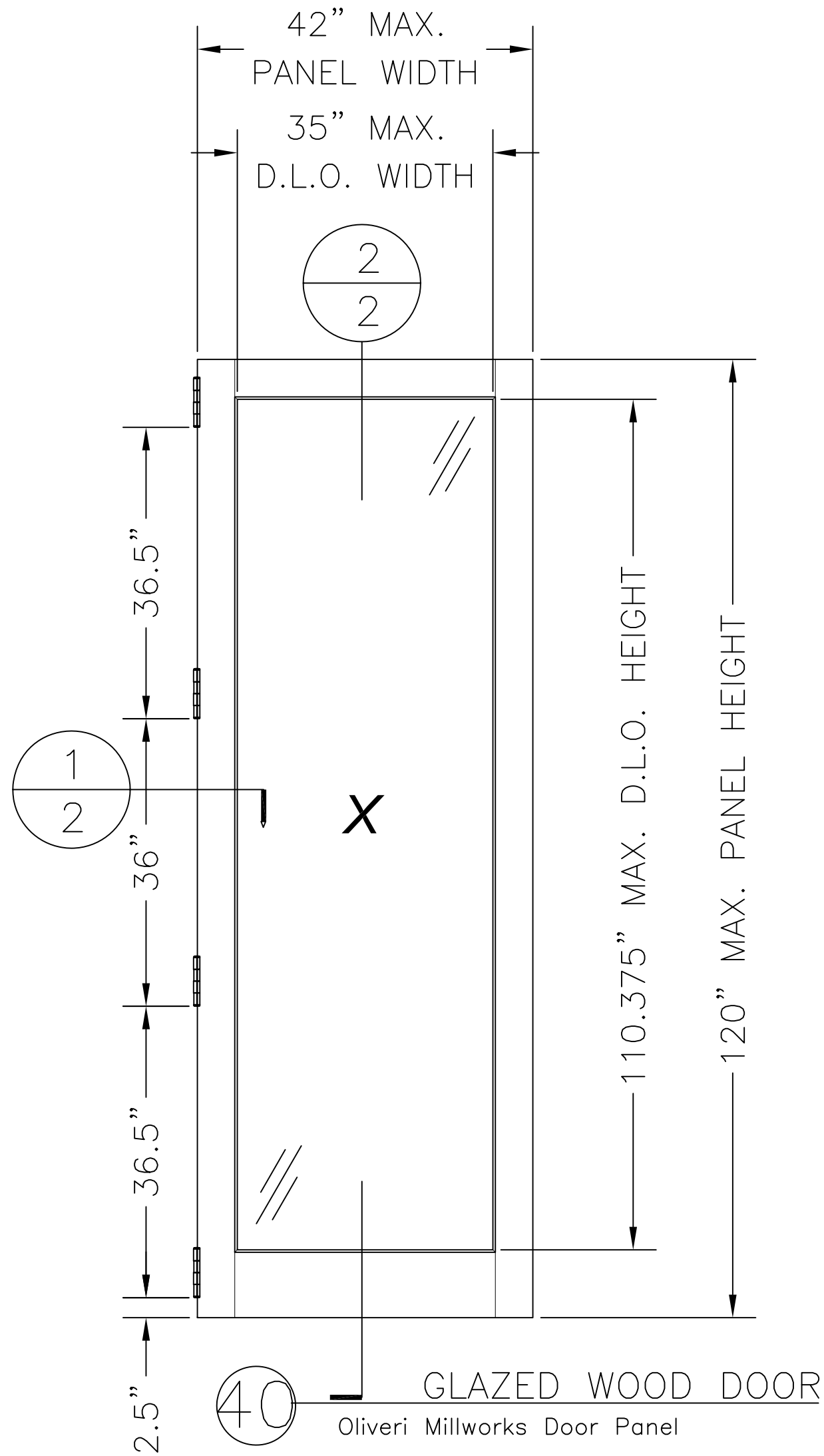
Sheet No.
1D OF 9

TABLE 1. QUALIFIED ANCHOR INFORMATION

ID	SUBSTRATE	ANCHOR	MIN. EMBEDMENT	MIN. EDGE DISTANCE
A	SOLID UNCRACKED CONCRETE (3050 PSI MIN.)	1/4" DEWALT COATED CARBON STEEL ULTRACON+	1 3/8"	2 1/2"
B	GROUT-FILLED CMU (ASTM C-90) (JAMBS ONLY)	1/4" DEWALT COATED CARBON STEEL ULTRACON+	1 3/4"	2 1/2"
C	SOLID UNCRACKED CONCRETE (2000 PSI MIN.)	1/4" ITW COATED CARBON STEEL TAPCON	1 1/2"	1 1/2"
D	HOLLOW CMU (117 PCF MIN.) (JAMBS ONLY)	1/4" ITW COATED CARBON STEEL TAPCON	1"	2"
E	CONCRETE (3000 PSI MIN)	1/4" HILTI COATED CARBON STEEL OR STAINLESS STEEL KWIK-CON II	1"	2 1/2"
F	HOLLOW OR GROUT-FILLED CMU (ASTM C-90)	1/4" HILTI COATED CARBON STEEL OR STAINLESS STEEL KWIK-CON II	1"	2 1/2"
G	2x MIN. SOUTHERN PINE WOOD (G=0.55 MIN)	#12 GRADE 5 WOOD SCREW OR 1/4" LAG SCREW AS INDICATED IN DETAILS	1 1/2"	1"
H	16 GAUGE (0.060") MIN. STEEL STUD (33 KSI YIELD MIN.) OR 1/8" MIN. ALUMINUM (6063-T5 MIN.)	#14 ITW TEKS SELF-DRILLING SCREW	FULL + 3 THREADS	1/2"

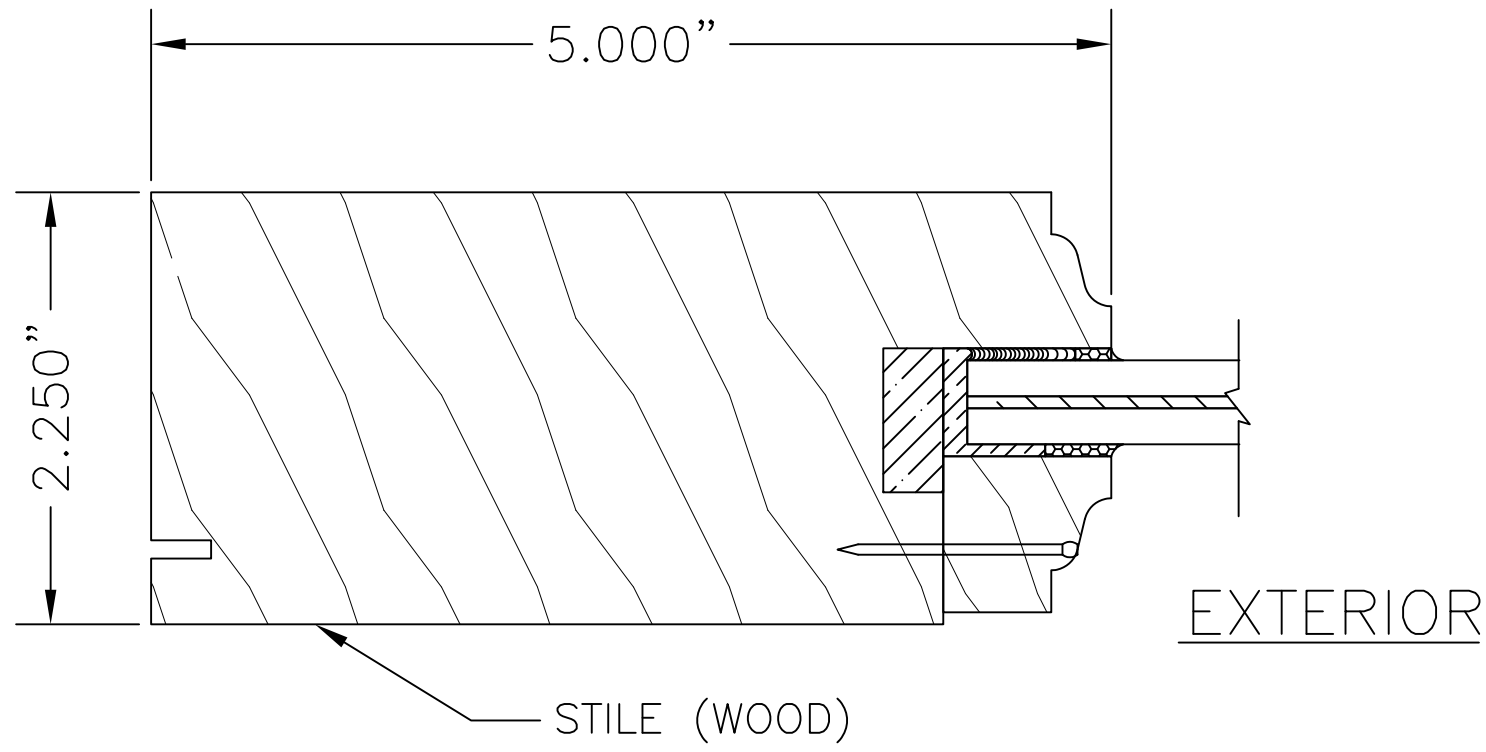
TABLE OF CONTENTS

SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door components & glazing details
3	Elevation (door @ end panel)
4	Elevation (door @ interior panel)
5	Horizontal cross sections
6	Vertical cross sections
7	Vertical cross sections
8	Frame anchoring
9	Bill of materials and components

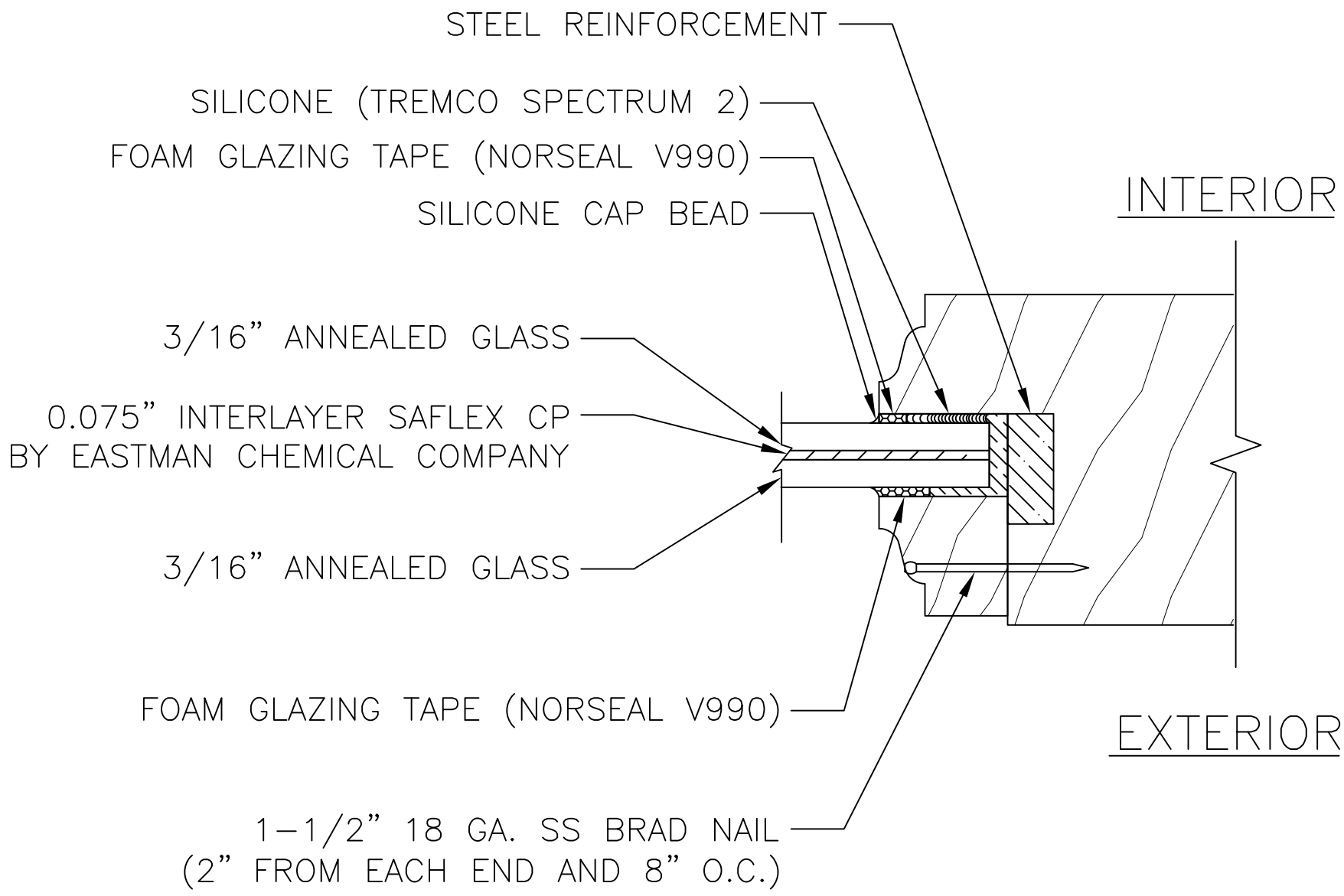


TENON CONSTRUCTION

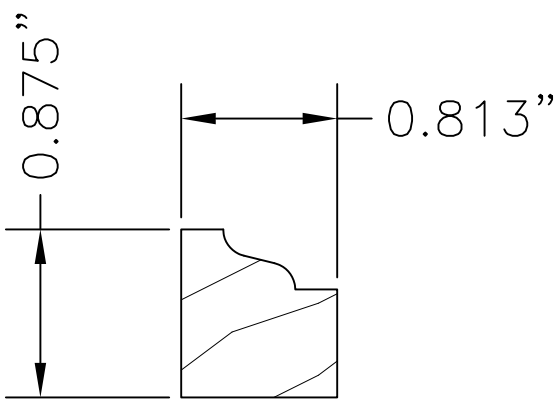
ENGINEERED WOOD DOOR COMPONENTS:
MAHOGANY (MIN. $G \geq 0.50$)



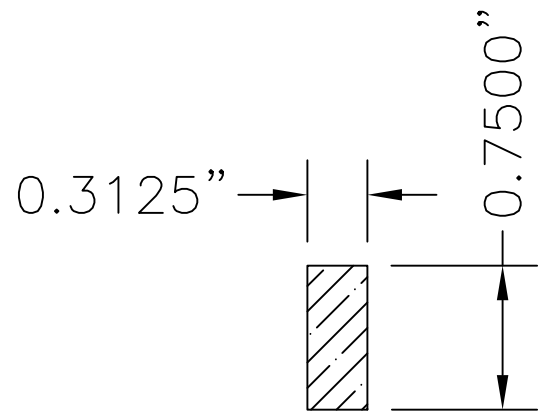
1
2
HORIZONTAL CROSS SECTION



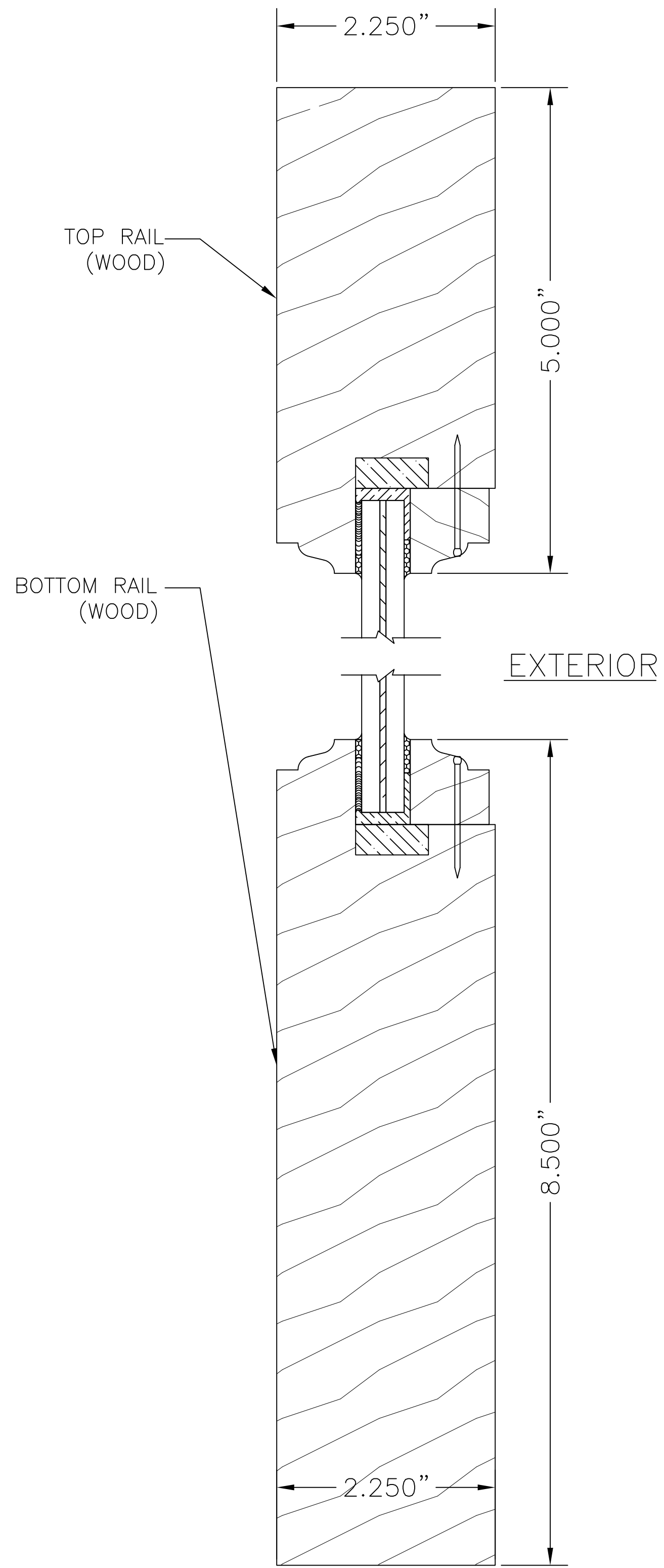
G
GLAZING DETAIL



GLAZING BEAD



STEEL REINFORCEMENT



2
2
VERTICAL CROSS SECTION



10/18/2023

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Product: BIFOLDING DOOR PANEL SYSTEM #1
EXTERIOR FOLDING DOOR - OUTSWING - "IMPACT"

DOOR COMPONENTS &
GLAZING DETAILS

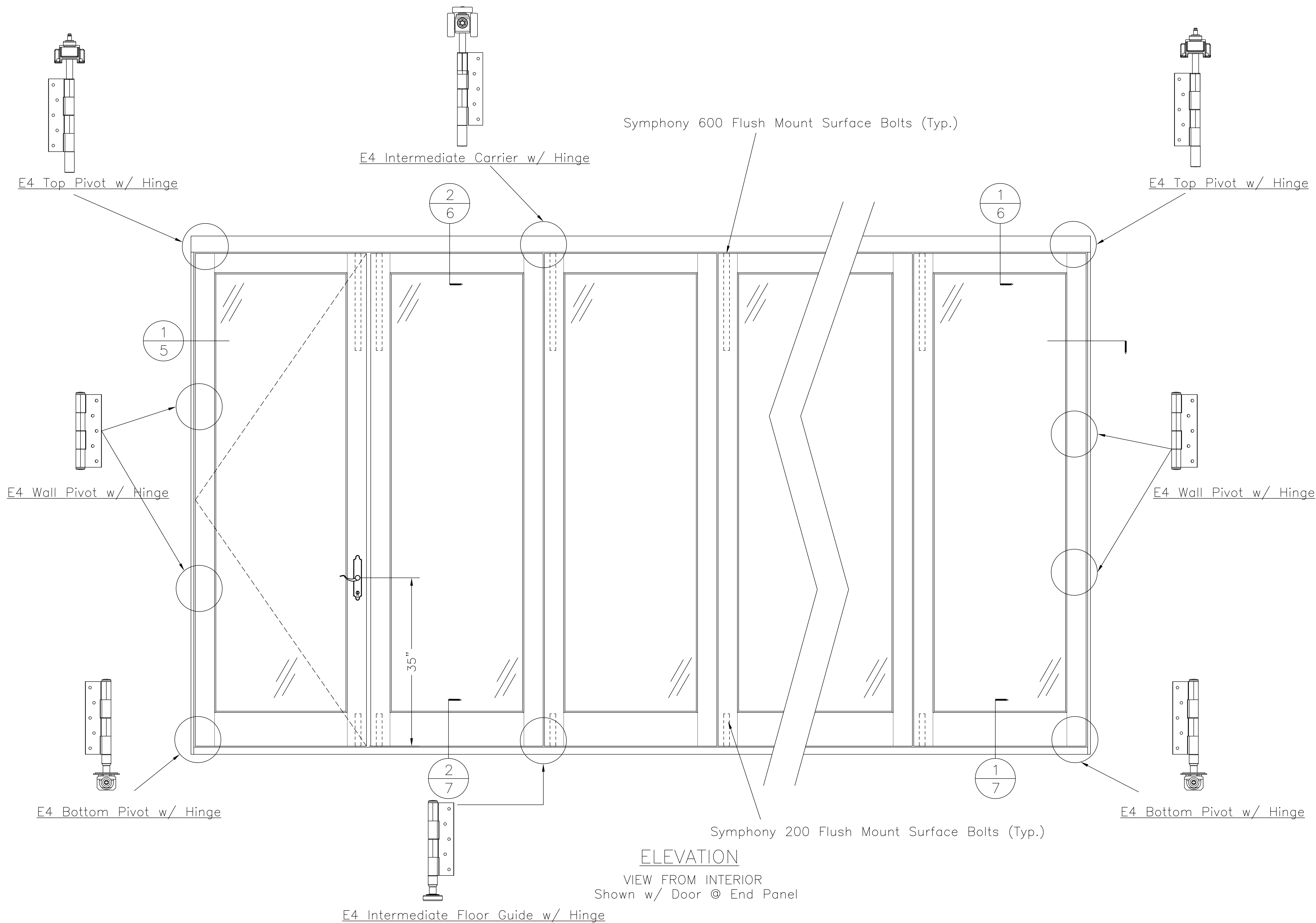
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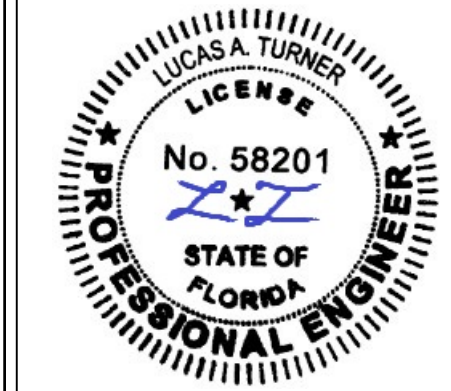
Dwg: Bifold
FL34944.1

Sheet No.
2D OF 9



ELEVATION

VIEW FROM INTERIOR
Shown w/ Door @ End Panel



10/18/2023

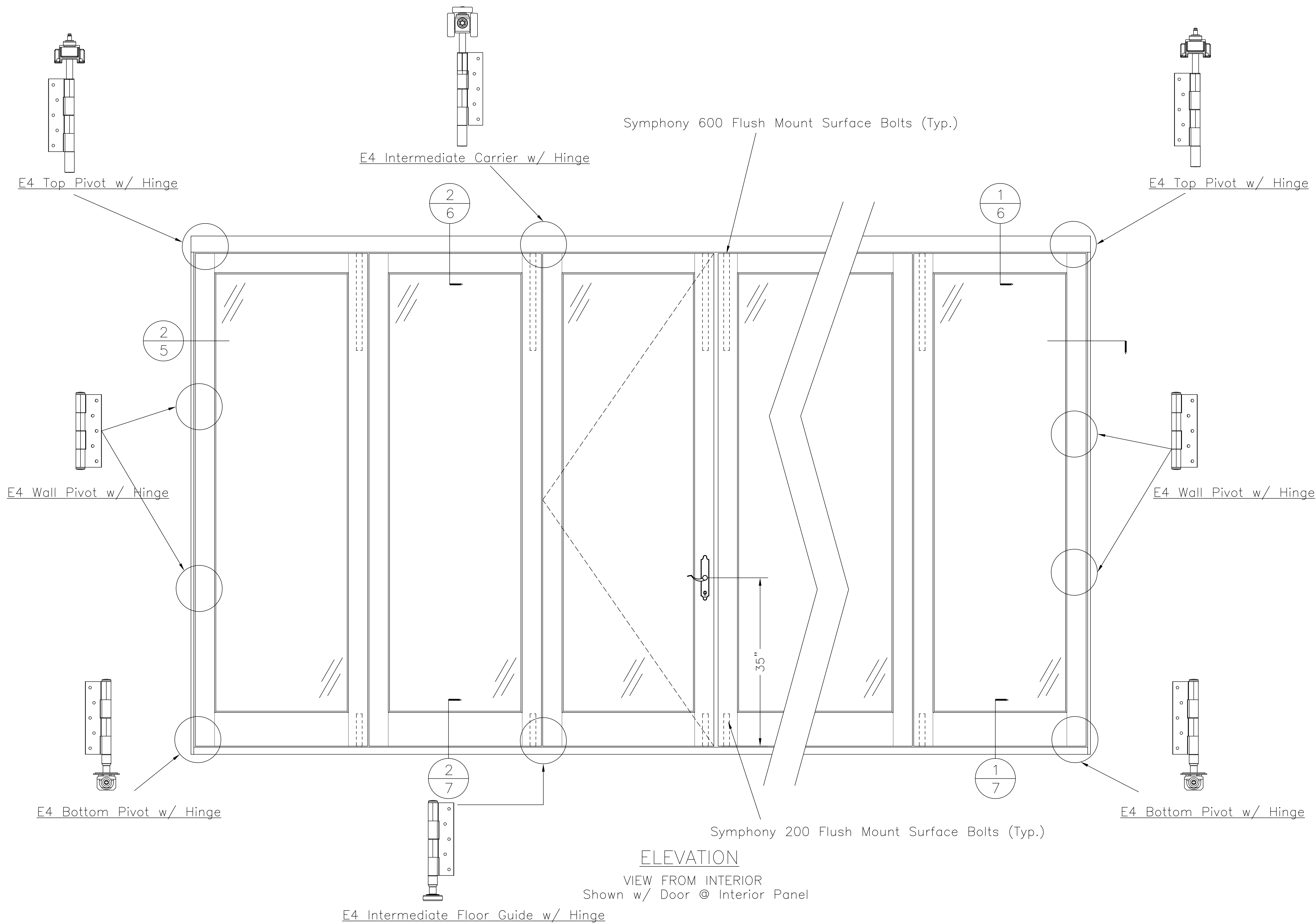
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Product: BIFOLDING DOOR PANEL SYSTEM #1
EXTERIOR FOLDING DOOR - OUTSWING - "IMPACT"
ELEVATION
(DOOR @ END PANEL)
Date: 11-19-14
Scale: None
Drawn: JDS

Dwg: Bifold
FL34944.1

Sheet No.
3D OF 9



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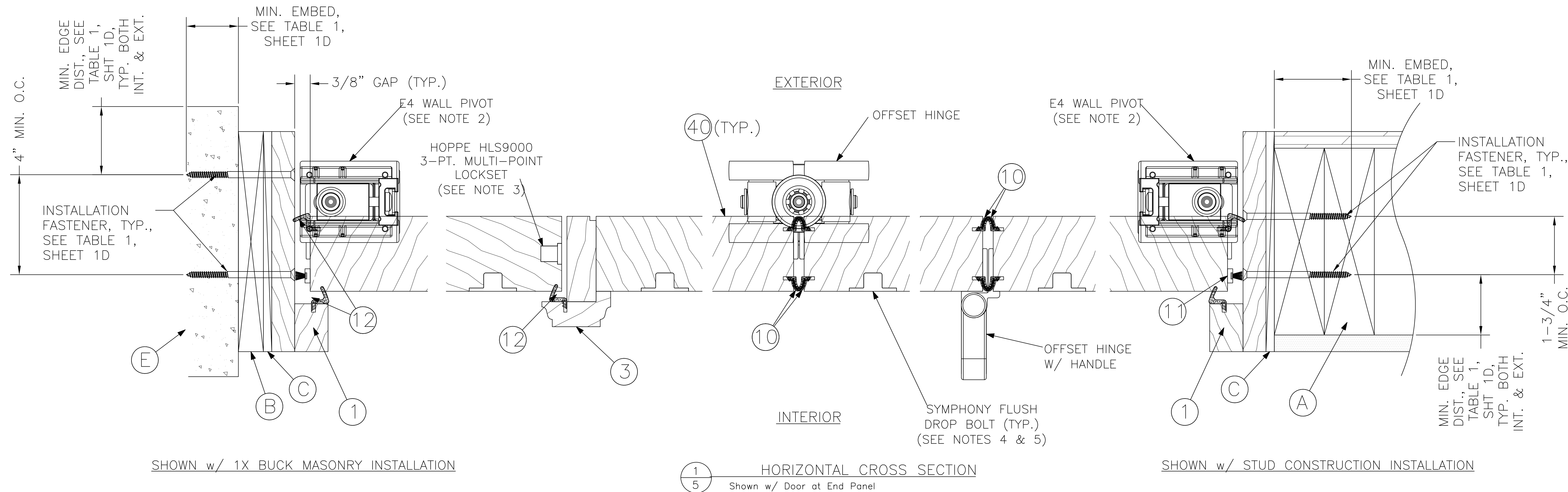
Product: BIFOLDING DOOR PANEL SYSTEM #1
EXTERIOR FOLDING DOOR – OUTSWING – “IMPACT”

Date: 11-19-14
Scale: None
Drawn: JDS

ELEVATION
(DOOR @ INTERIOR PANEL)

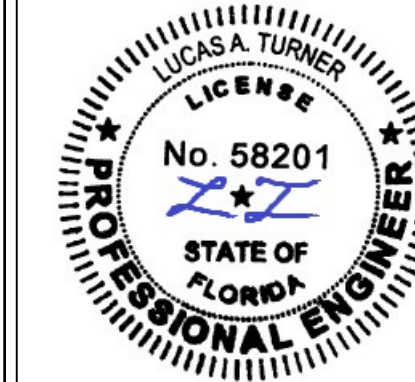
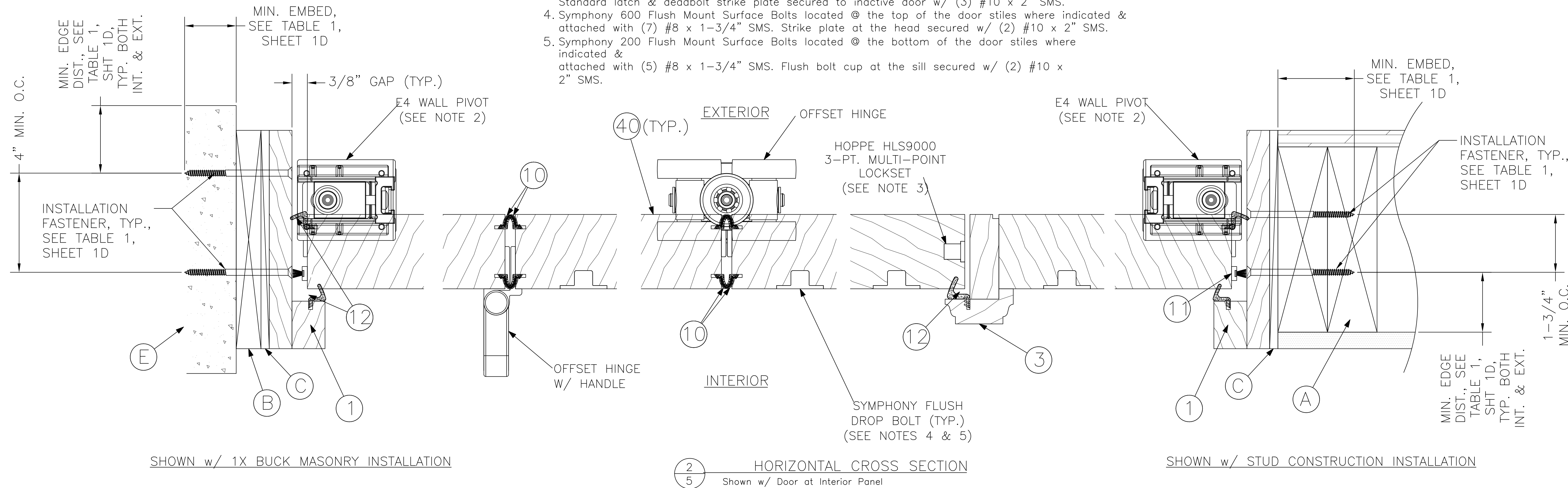
Dwg: Bifold
FL34944.1

Sheet No.
4D OF 9



NOTES:

1. All hinges secured to the door slabs w/ (5) #10 x 2" SMS.
2. E4 Wall Pivot secured to the jamb w/ (2) #10 x 2" SMS.
3. Hoppe HLS9000 Multi-point Lockset (Manual Tongue 3-point System) on active door. Standard tongue strike plate secured to inactive door w/ (3) #10 x 2" SMS. Standard latch & deadbolt strike plate secured to inactive door w/ (3) #10 x 2" SMS.
4. Symphony 600 Flush Mount Surface Bolts located @ the top of the door stiles where indicated & attached with (7) #8 x 1-3/4" SMS. Strike plate at the head secured w/ (2) #10 x 2" SMS.
5. Symphony 200 Flush Mount Surface Bolts located @ the bottom of the door stiles where indicated & attached with (5) #8 x 1-3/4" SMS. Flush bolt cup at the sill secured w/ (2) #10 x 2" SMS.



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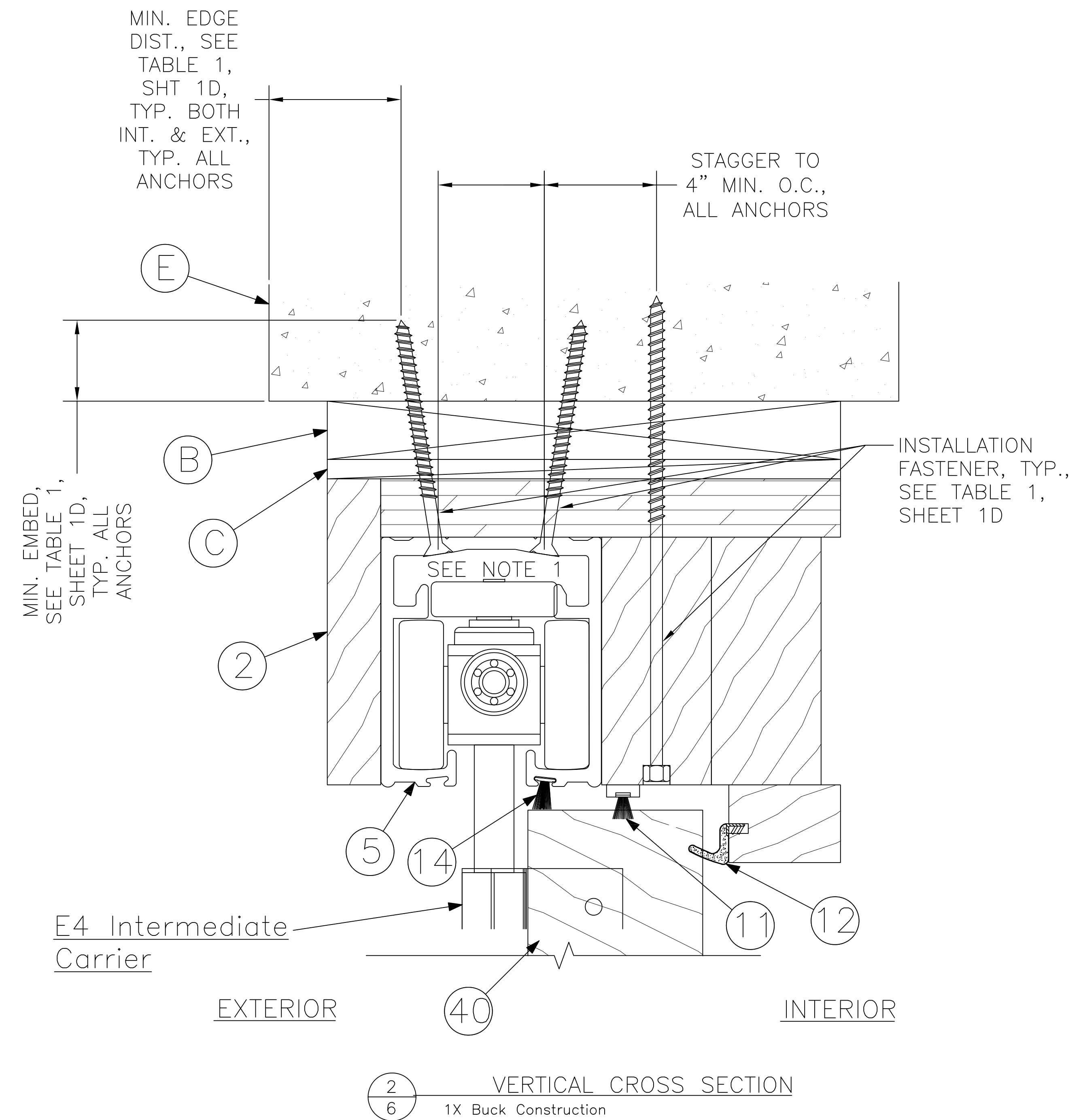
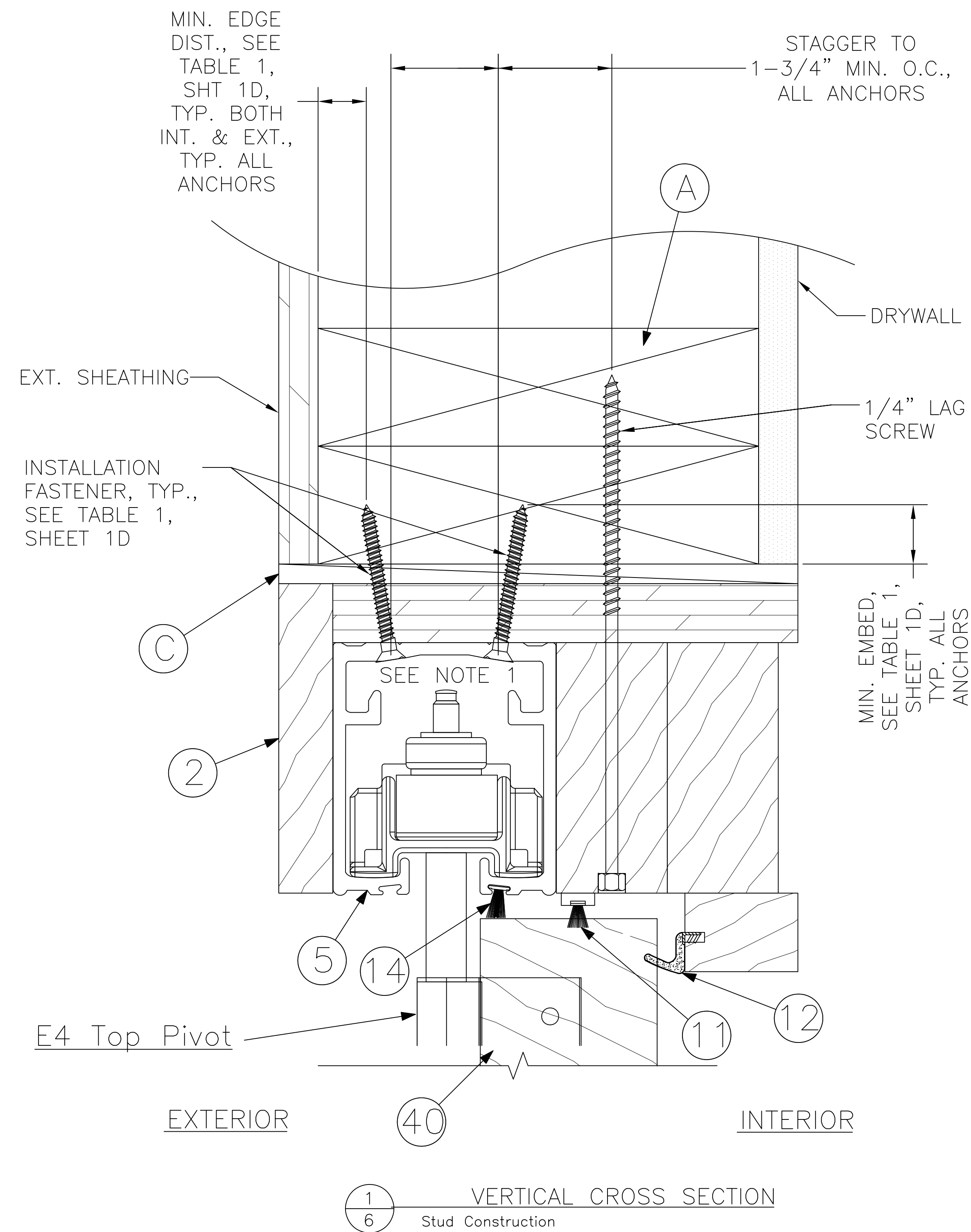
Product: BIFOLD DOOR PANEL SYSTEM #1
EXTERIOR FOLDING DOOR - OUTSWING - "IMPACT"

HORIZONTAL
CROSS SECTIONS

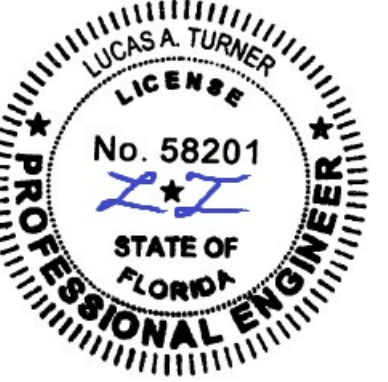
Date: 11-19-14
Scale: None
Drawn: JDS

Dwg: Bifold
FL34944.1

Sheet No.
5D OF 9



NOTES:
1. Anchors installed at 9° angle formed by head track.



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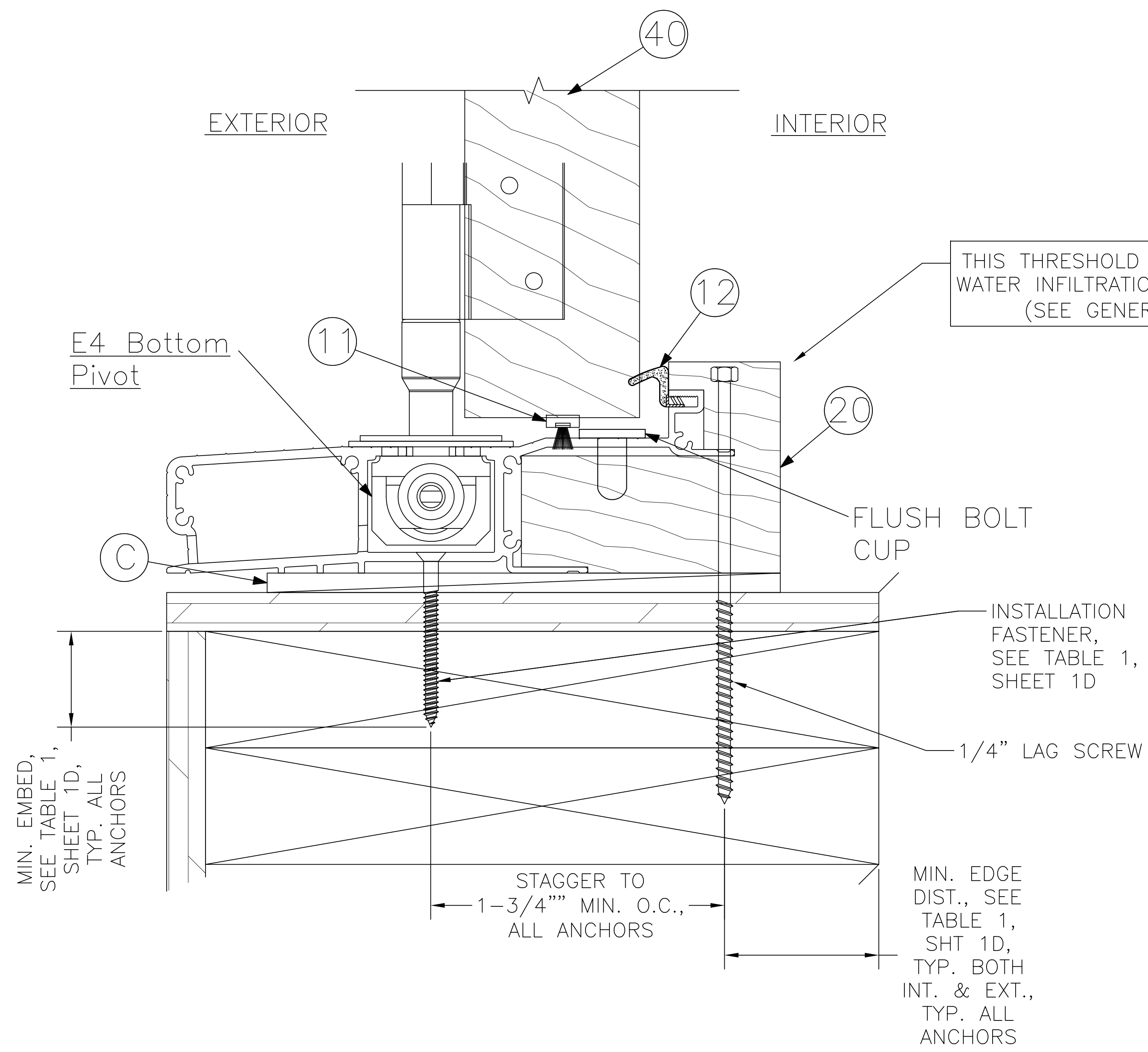
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EXTERIOR FOLDING DOOR - OUTSWING - "IMPACT"

VERTICAL
CROSS SECTIONS

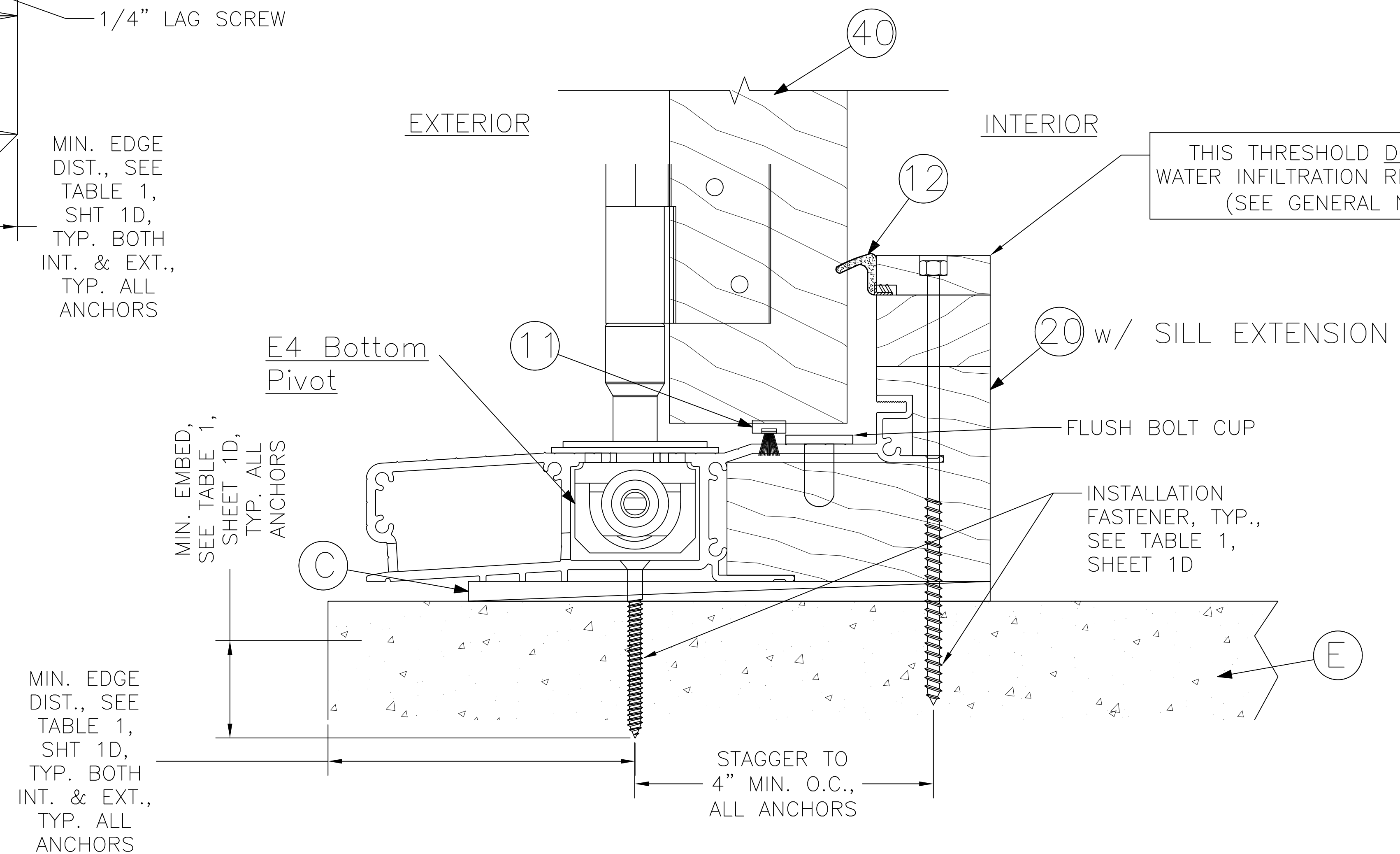
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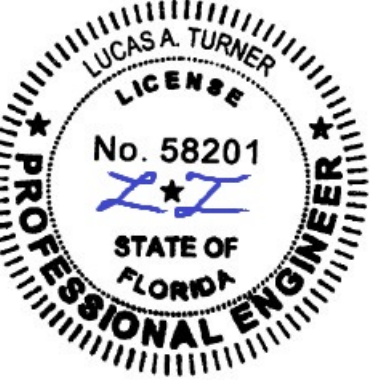
Sheet No.
6D OF 9



1
7 VERTICAL CROSS SECTION
Stud Construction



2
7 VERTICAL CROSS SECTION
Direct to Masonry



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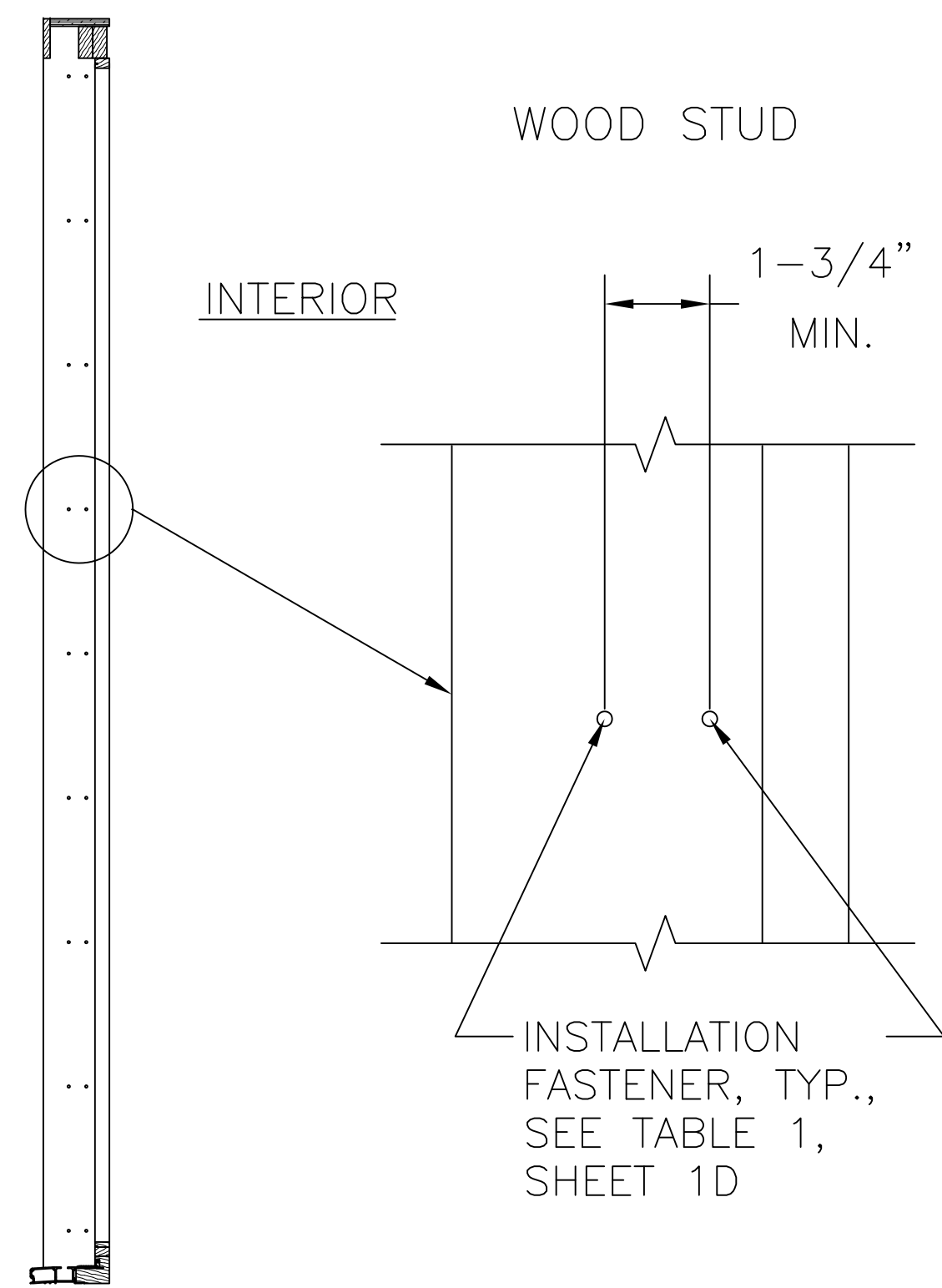
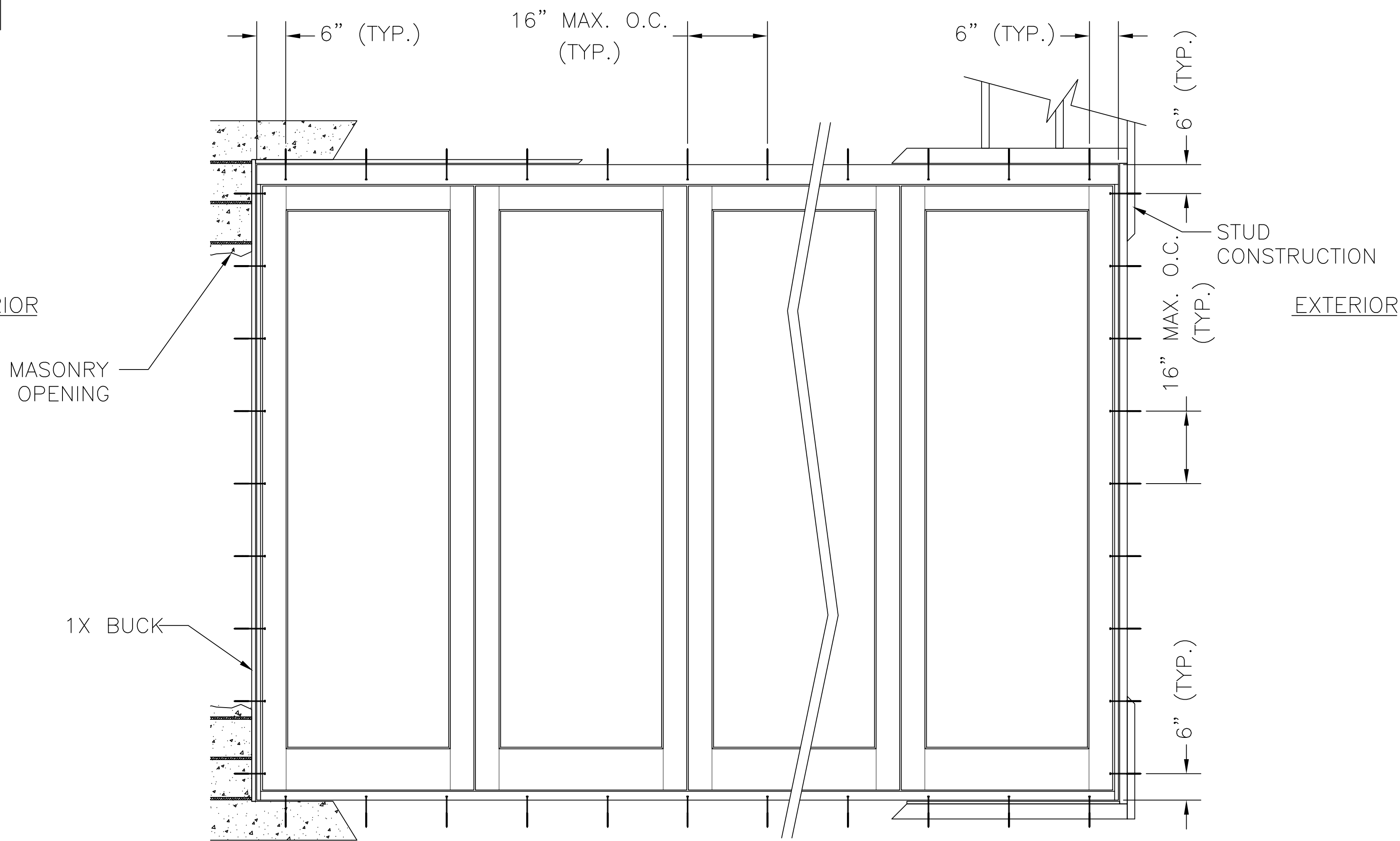
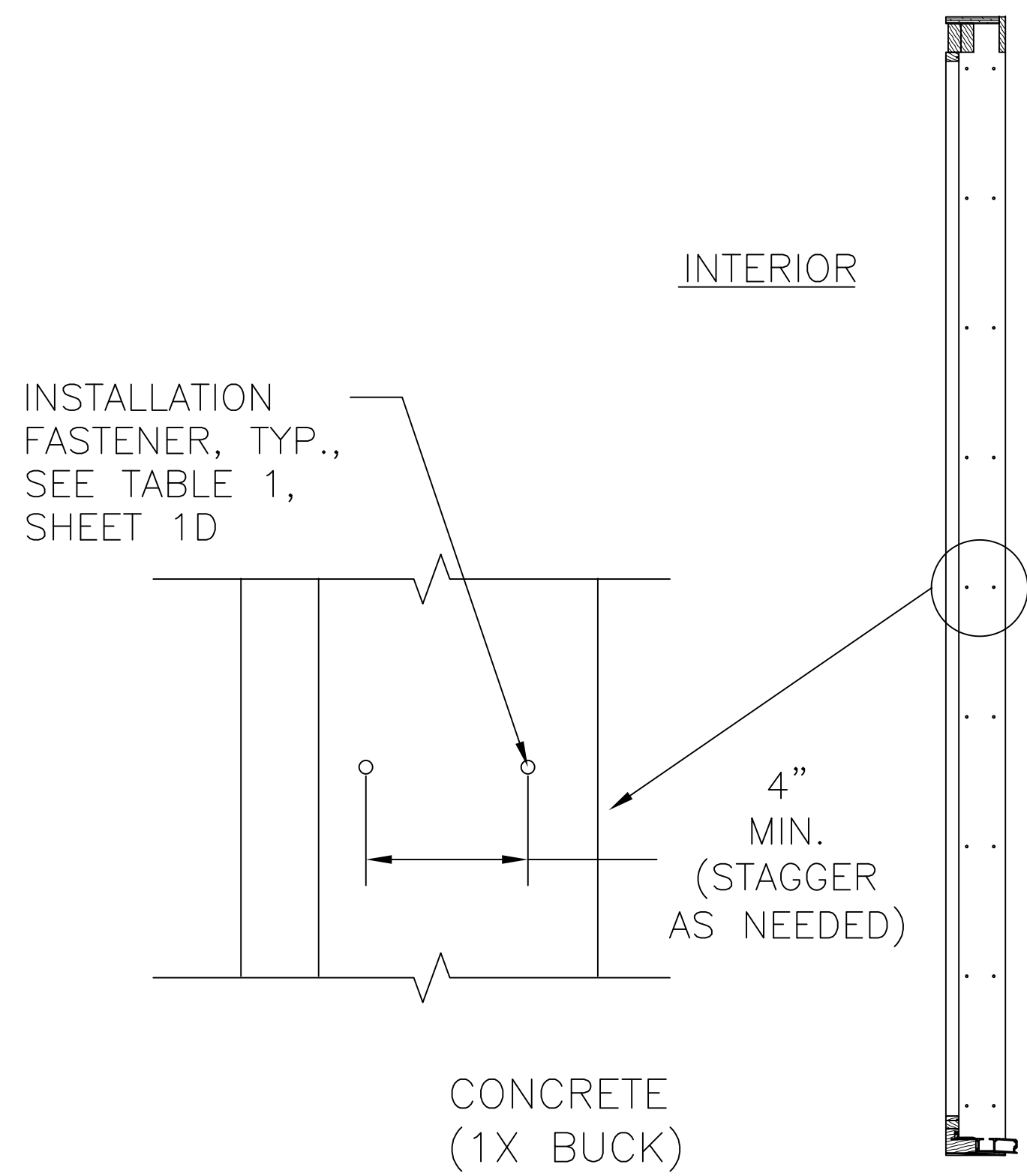
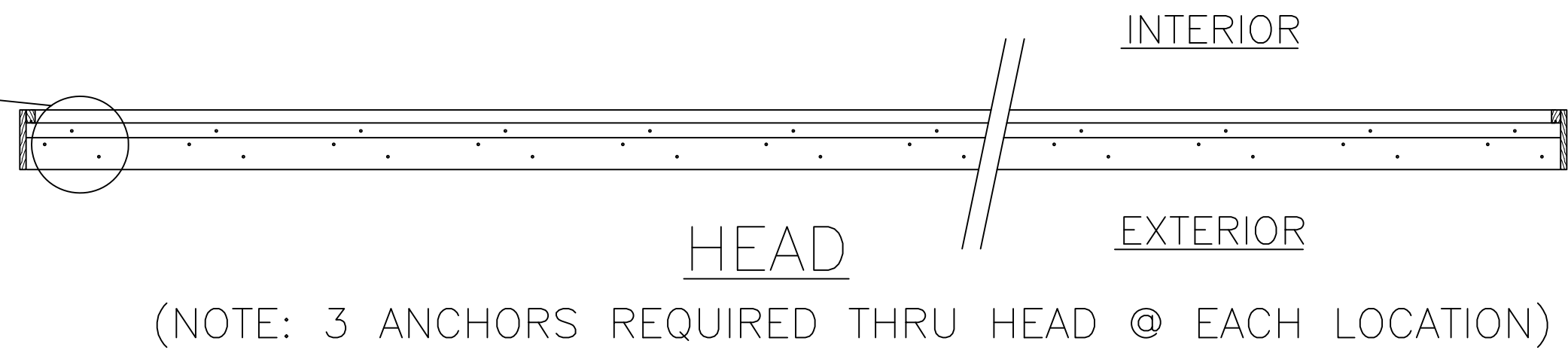
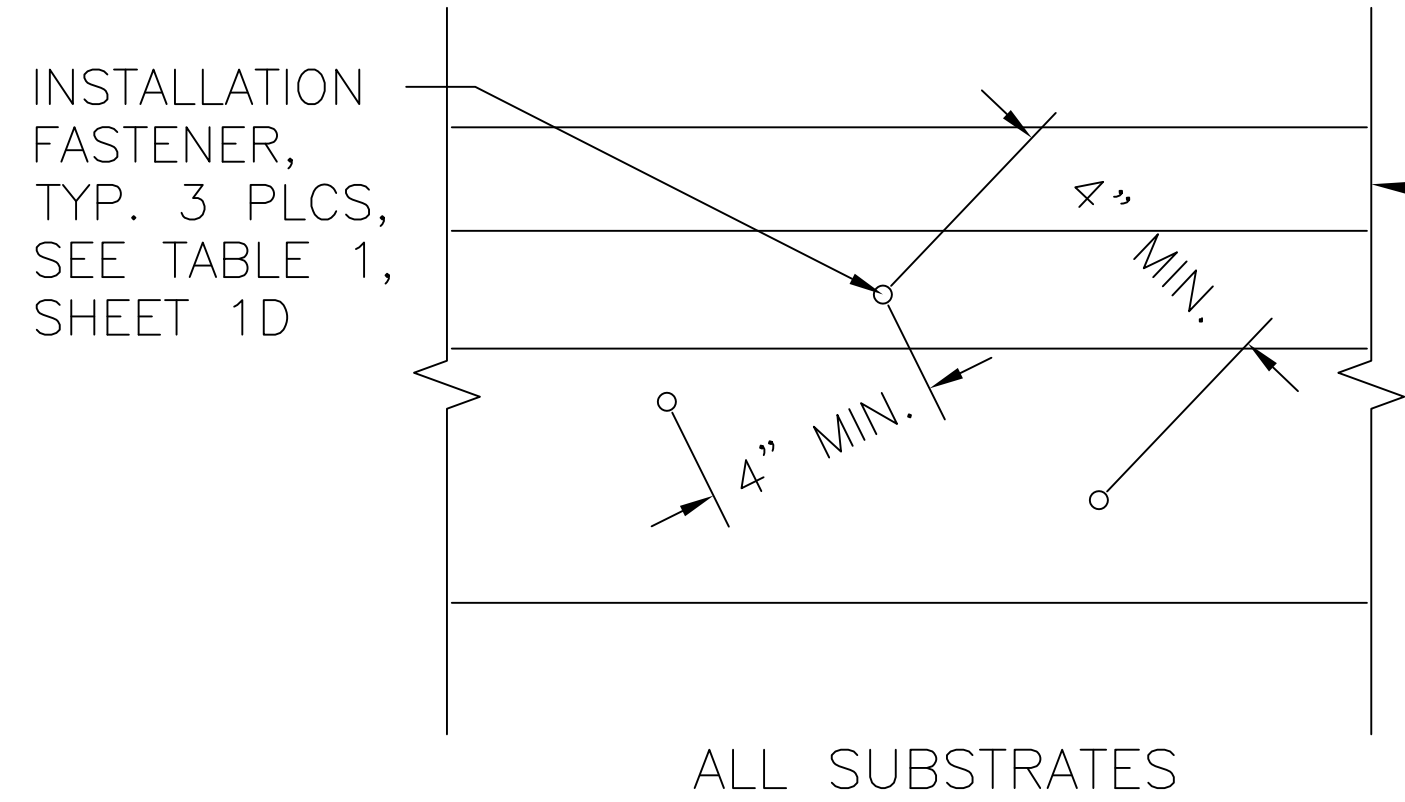
Product: BIFOLDING DOOR PANEL SYSTEM #1
EXTERIOR FOLDING DOOR - OUTSWING - "IMPACT"

VERTICAL
CROSS SECTIONS

Date: 11-19-14
Scale: None
Drawn: JDS

Dwg: Bifold
FL34944.1

Sheet No.
7D OF 9



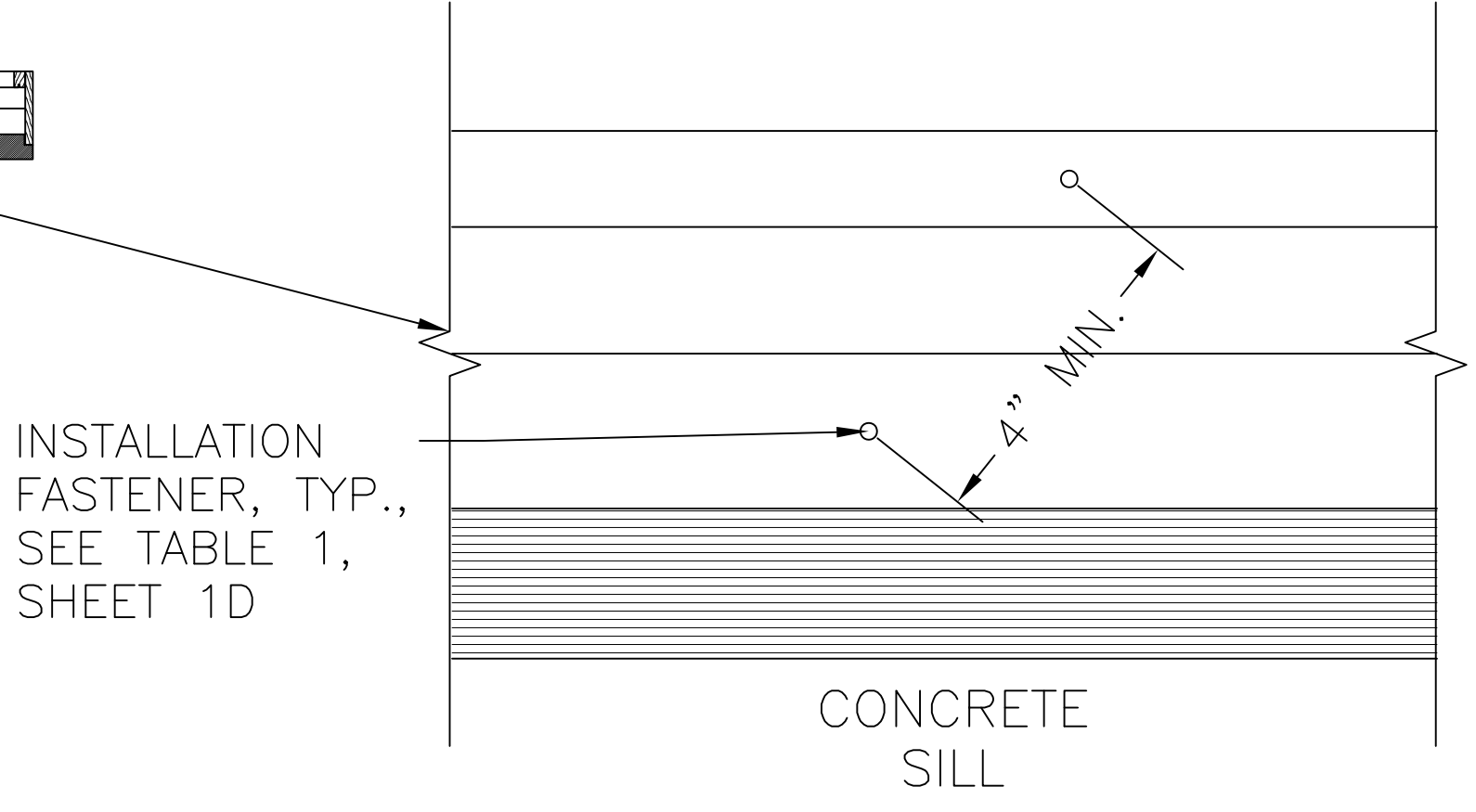
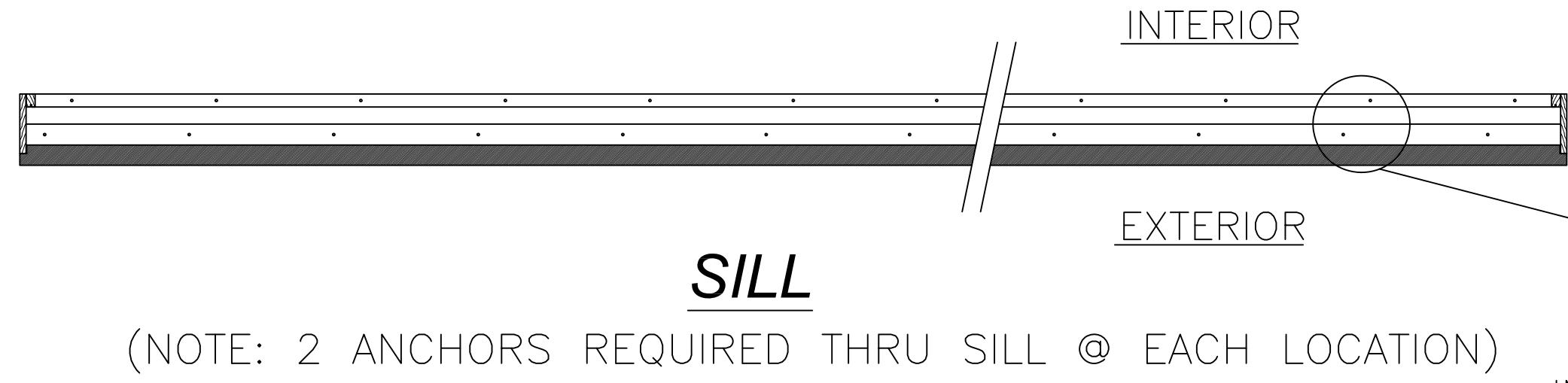
JAMB

(NOTE: 2 ANCHORS REQUIRED THRU JAMB @ EACH LOCATION)

FRAME ANCHORING

Shown w/ 1x Buck & Stud Construction Installation

(NOTE: 2 ANCHORS REQUIRED THRU JAMB @ EACH LOCATION)



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Product: BIFOLDING DOOR PANEL SYSTEM #1
EXTERIOR FOLDING DOOR - OUTSWING - "IMPACT"

FRAME ANCHORING

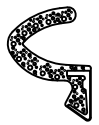
Date: 11-19-14
Scale: None
Drawn: JDS

Dwg: Bifold
FL34944.1

Sheet No.
8D OF 9

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.55)	WOOD
B	1X BUCK (G>=0.55)	WOOD
C	¼" MAX.SHIM SPACE	—
E	MASONRY — 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
1	FRAME JAMB w/ DOOR STOP	WOOD
2	FRAME HEAD CHANNEL w/ DOOR STOP	WOOD/PLY
3	ASTRAGAL	WOOD
5	HEAD TRACK (KT80)	6063-T6 ALUMINUM
10	WEATHERSTRIP (KT426)	—
11	WEATHERSTRIP (KT369)	—
12	SEAL INSERT (KT427)	—
13	PILE WEATHERSEAL (KTP108-35)	—
14	PILE SEAL	—
20	SILL ASSEMBLY (KT941)	ALUMINUM / WOOD
40	SIGNATURE DOOR PANEL	ENG. WOOD

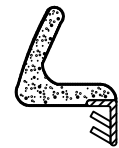
NOTE: DOOR FRAME COMPONENTS (WOOD/PLYWOOD) MIN. G=0.50 (MAHOGANY OR SIMILAR)



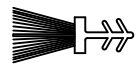
10WEATHERSTRIP
KT426



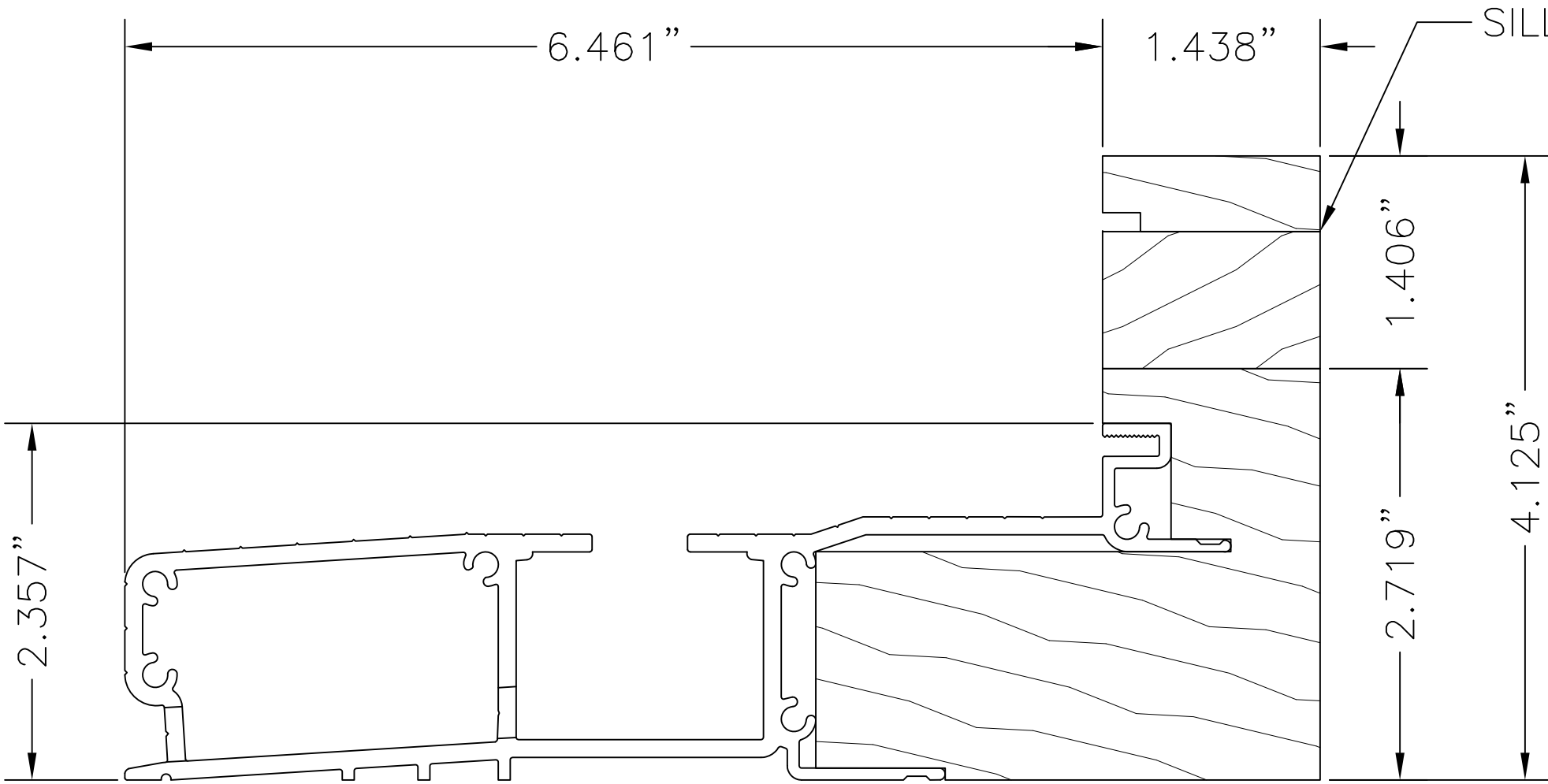
11WEATHERSTRIP
KT369



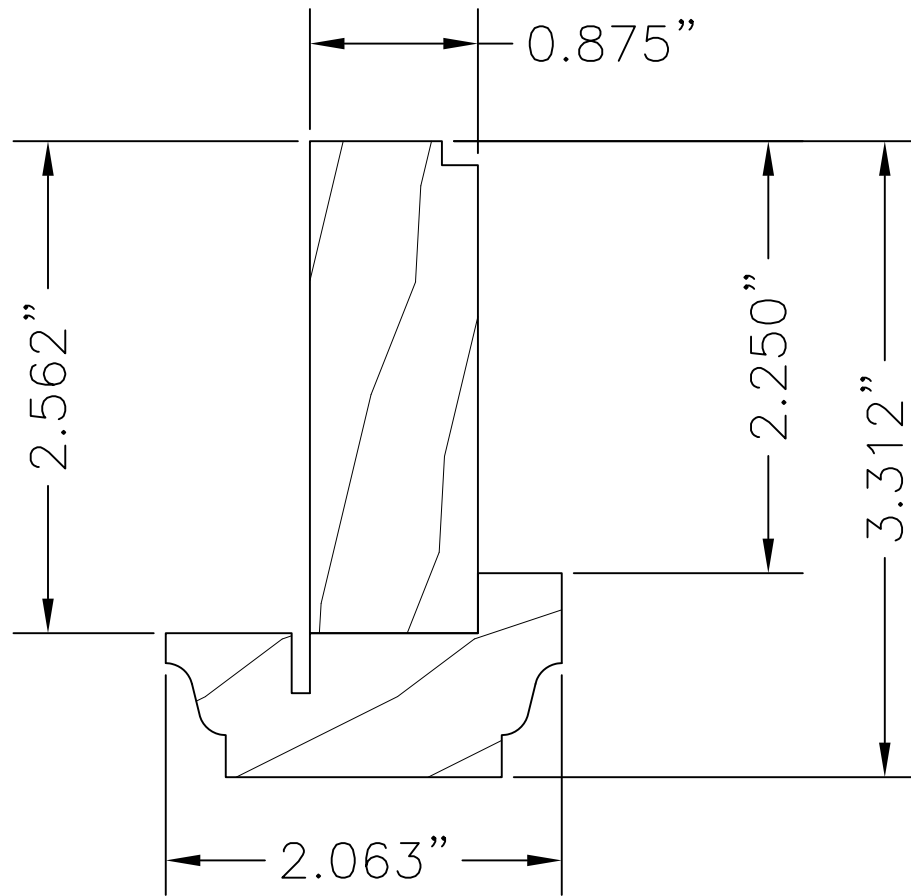
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KT427



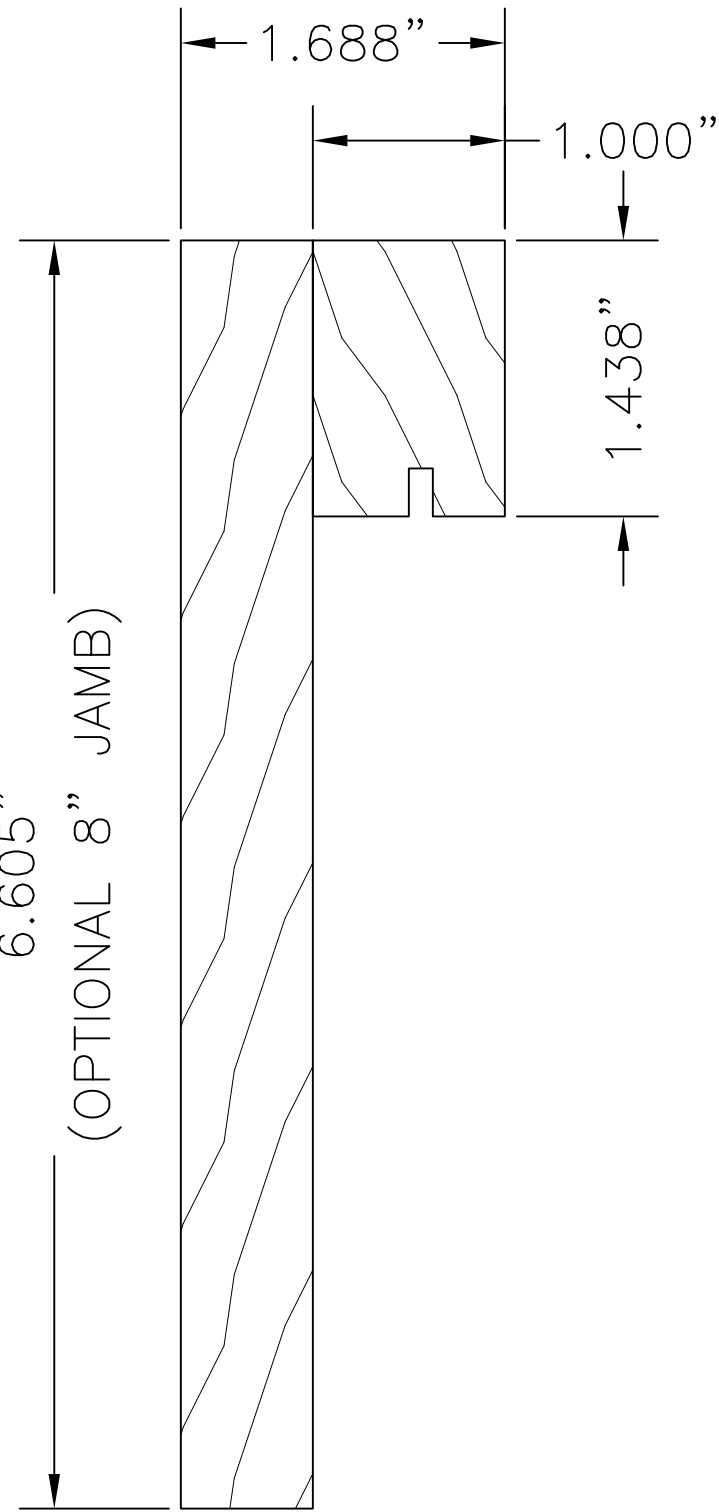
13PILE WEATHERSEAL
KTP108-35



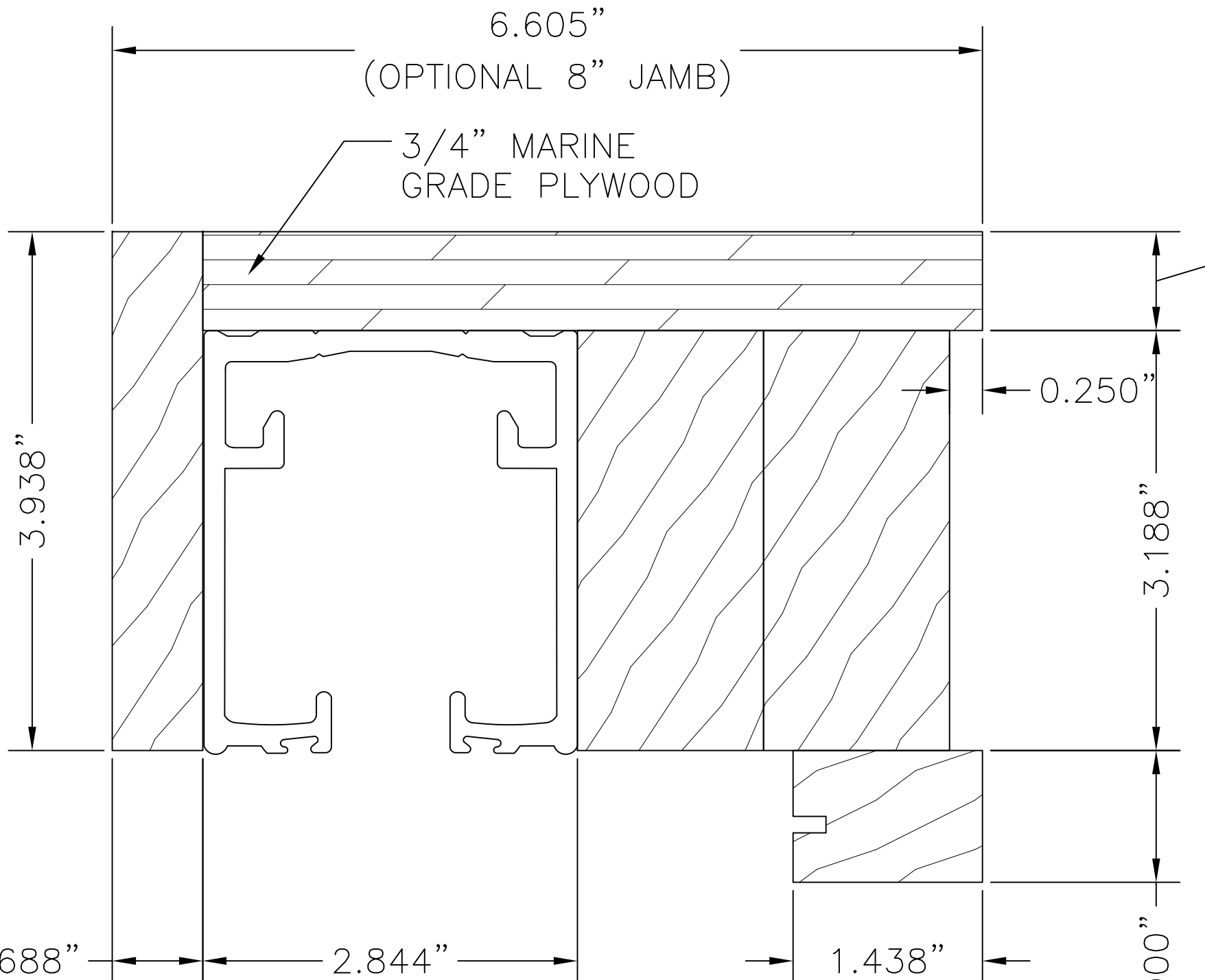
20SILL ASSEMBLY
KT941/WOOD STILL



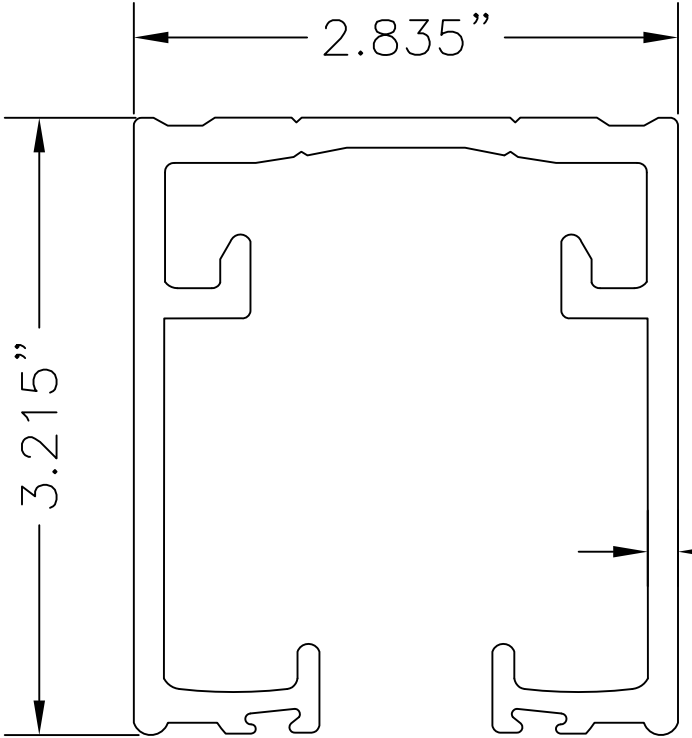
3ASTRAGAL
WOOD



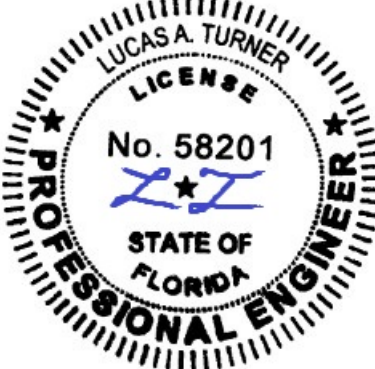
1FRAME JAMB w/ DOOR STOP
WOOD



2FRAME HEAD CHANNEL W/ DOOR STOP
WOOD/PLYWOOD



5HEAD TRACK
KT80



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Date: 11-19-14
Scale: None
Drawn: JDS

Dwg: Bifold
FL34944.1

Sheet No.
9D OF 9