

BIFOLDING DOOR PANEL SYSTEM – HVHZ EXTERIOR FOLDING DOOR – OUTSWING – "IMPACT"

BY OWW LLC

DESIGN PRESSURE = + 50.0 PSF, - 50.0 PSF

GENERAL NOTES

1. This product has been evaluated and is in compliance with 8th Edition (2023) Florida Building Code (FBC) structural requirements including 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 the "HVHZ" this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
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 (1) and folding door (3) configuration shown as is tested. Also approved in the similar configuration with active door (1) and (2) folding doors.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. This product has been laboratory tested to meet the water infiltration requirements for "HVHZ" when used with the sill assembly extension. 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. Aluminum components, including fasteners, shall meet the requirements of FBC Section 2003.

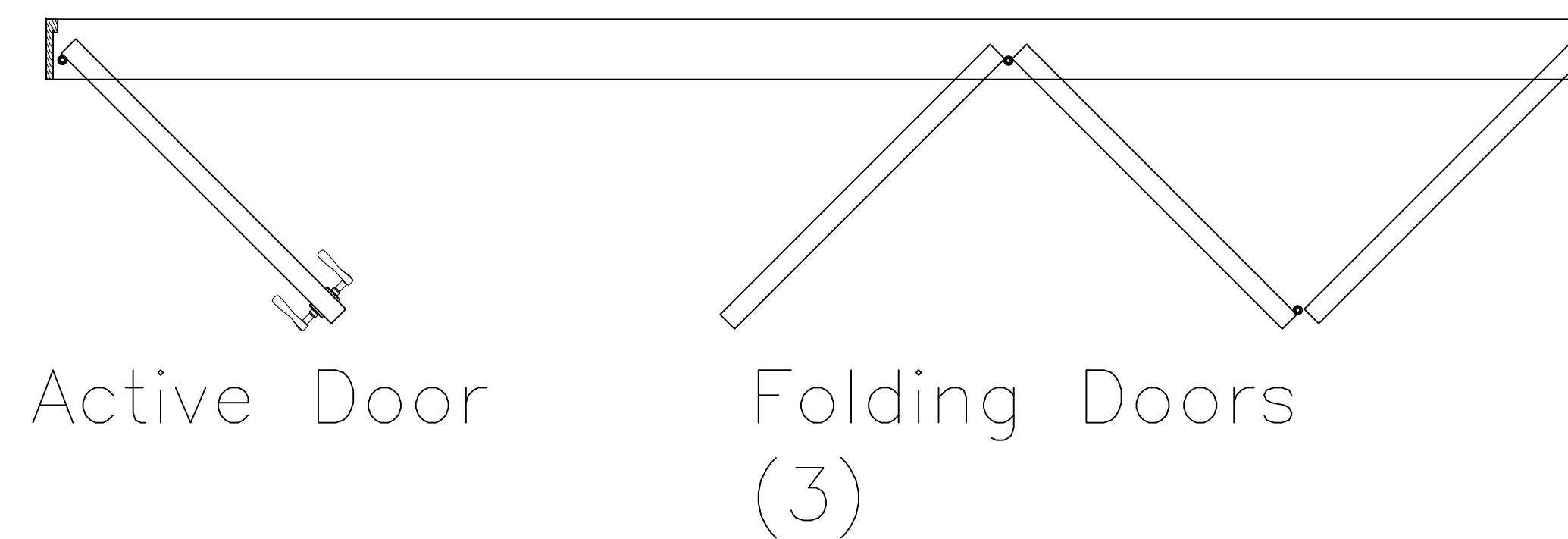
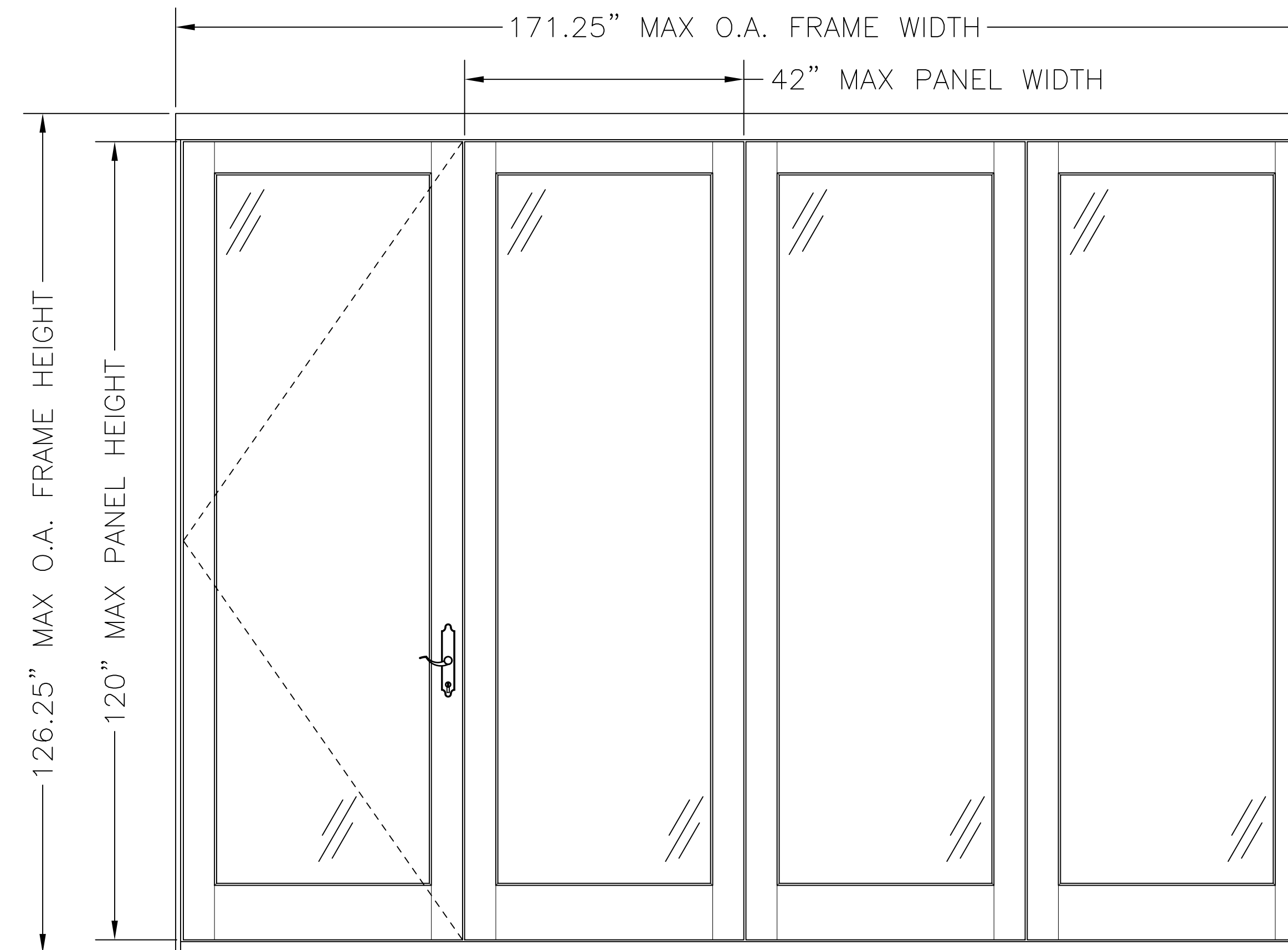
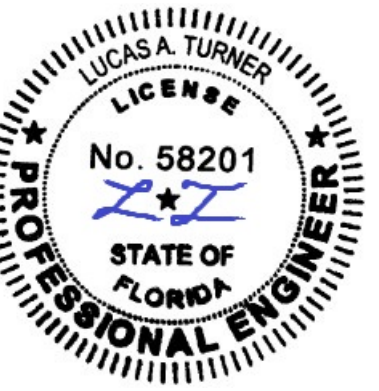


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2	Door components & glazing details
3	Elevation
4	Horizontal cross sections
5	Vertical cross sections
6	Vertical cross sections
7	Frame anchoring
8	Bill of materials and components

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	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"



10/18/2023

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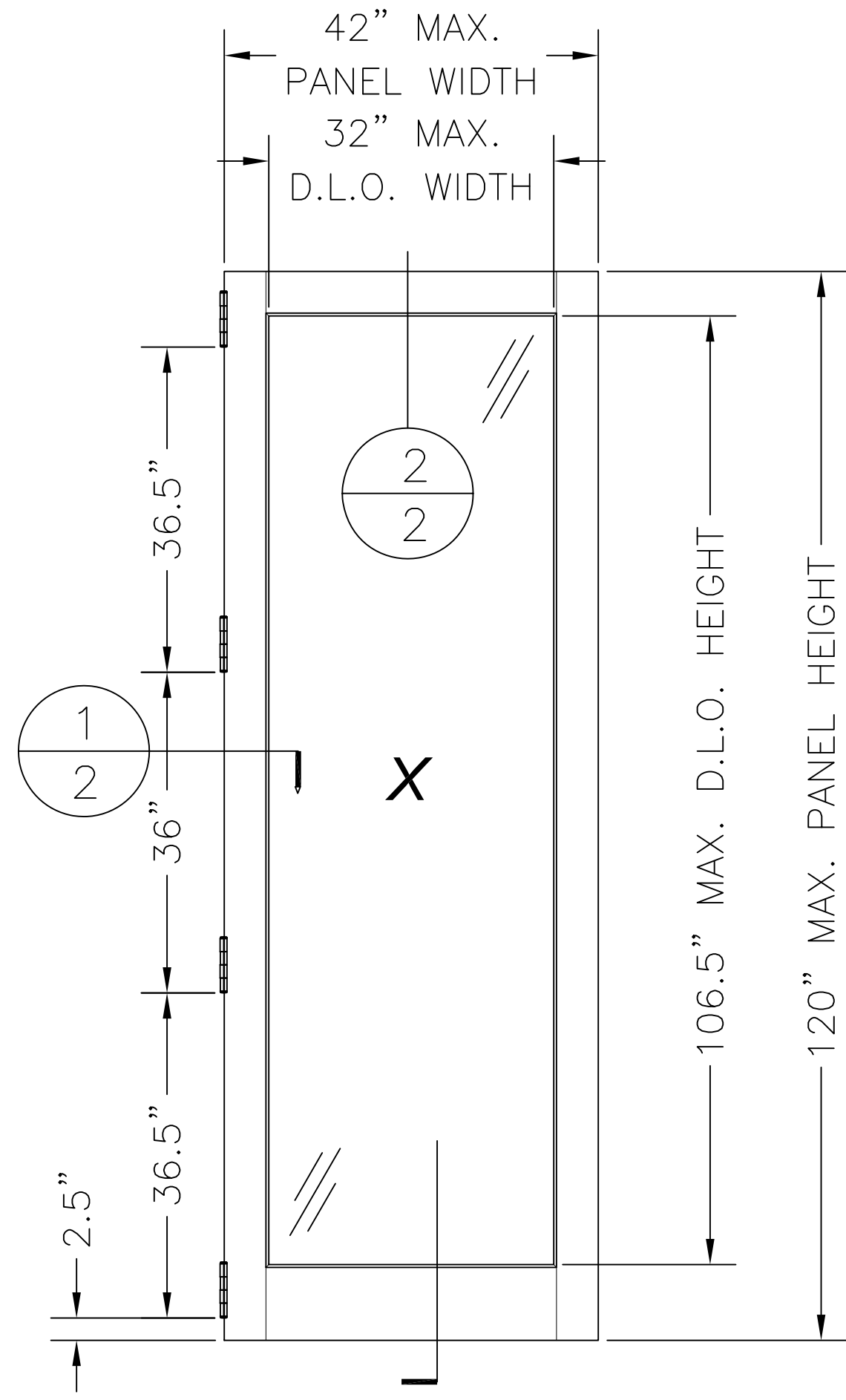
Product: BIFOLDING DOOR PANEL SYSTEM #1
EXTERIOR FOLDING DOOR – OUTSWING – "IMPACT"

TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

Date: 11-18-14
Scale: None
Drawn: JDS

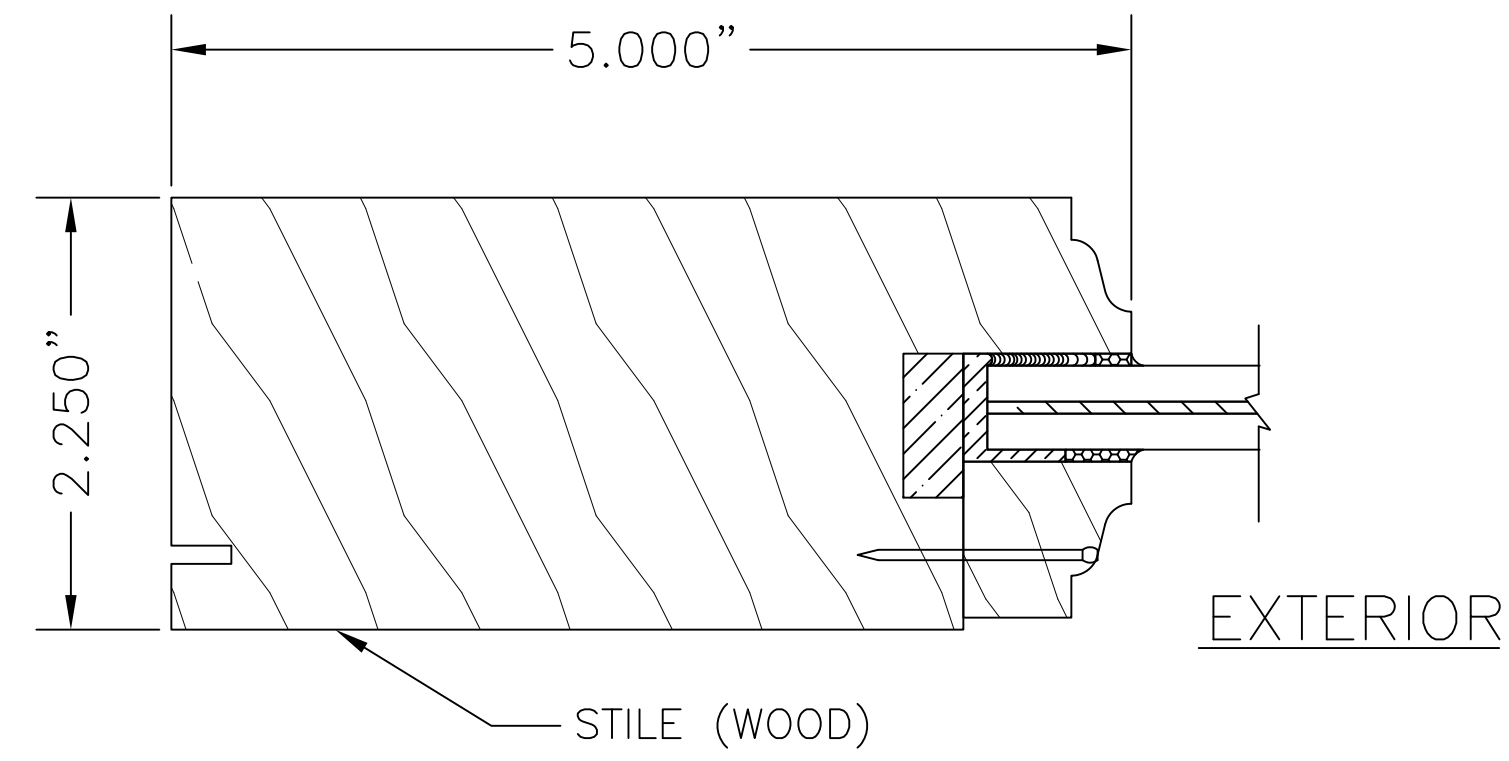
Dwg. Bifold-HVHZ
FL34944.2

Sheet No.
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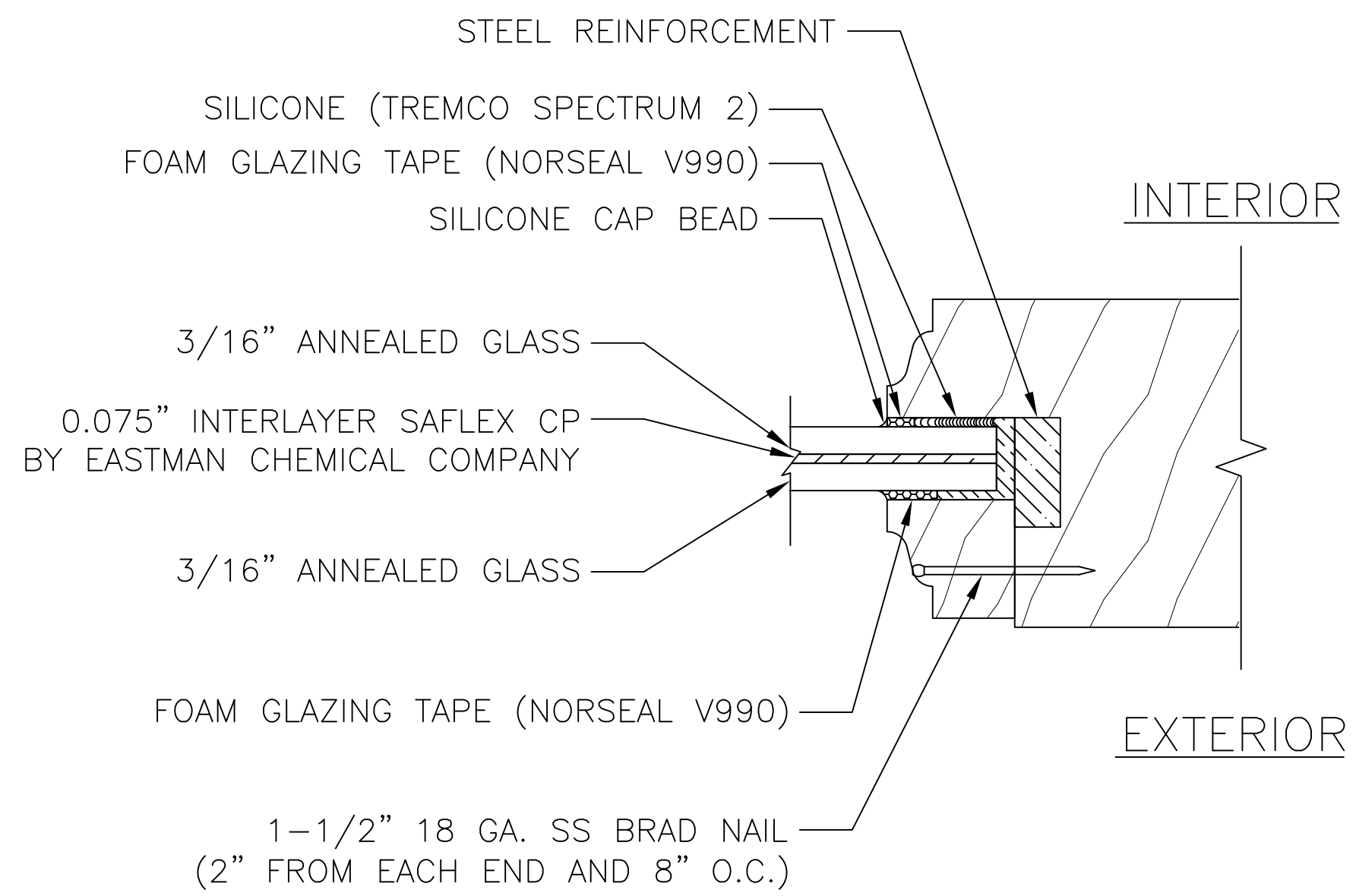


40 GLAZED WOOD DOOR
Oliveri Millworks Door Panel

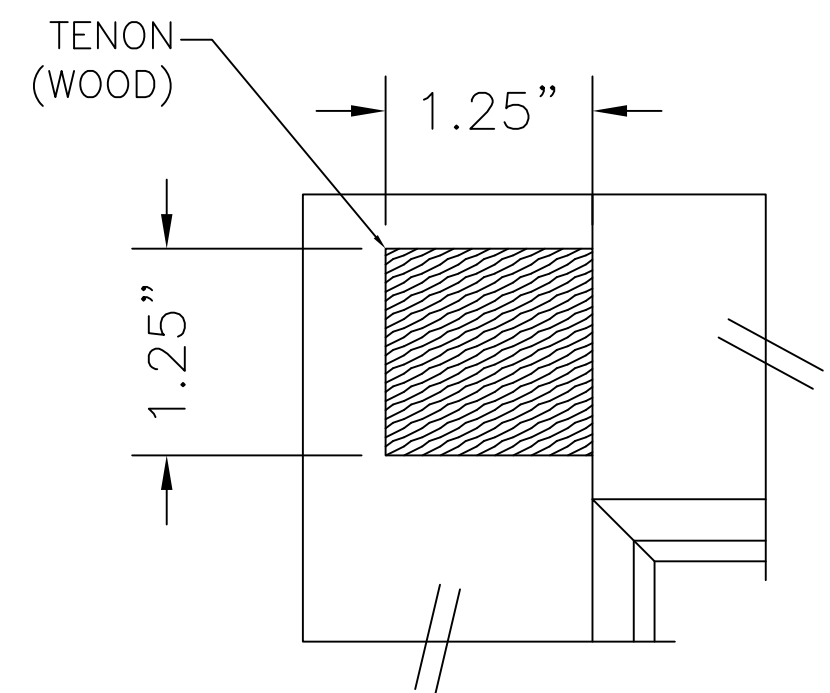
ENGINEERED WOOD DOOR COMPONENTS:
MAHOGANY (MIN. G>=0.50)



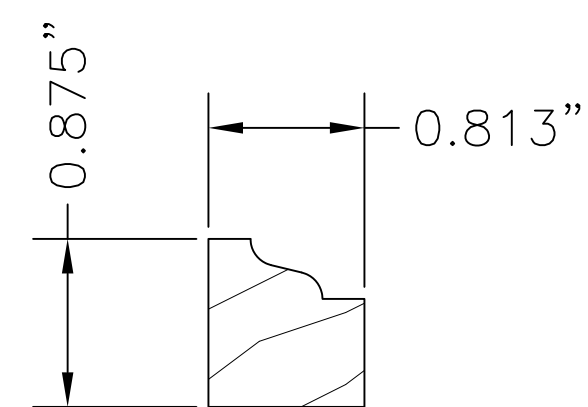
1
2 HORIZONTAL CROSS SECTION



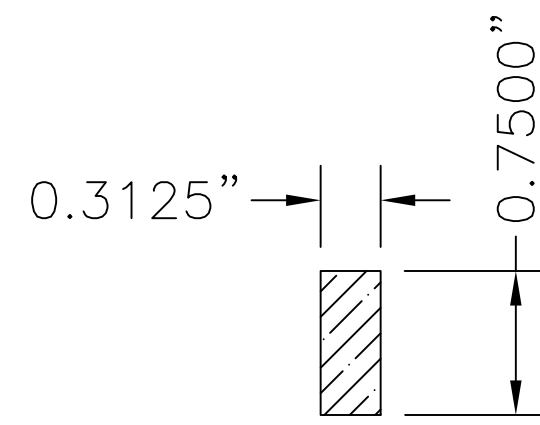
G1 GLAZING DETAIL



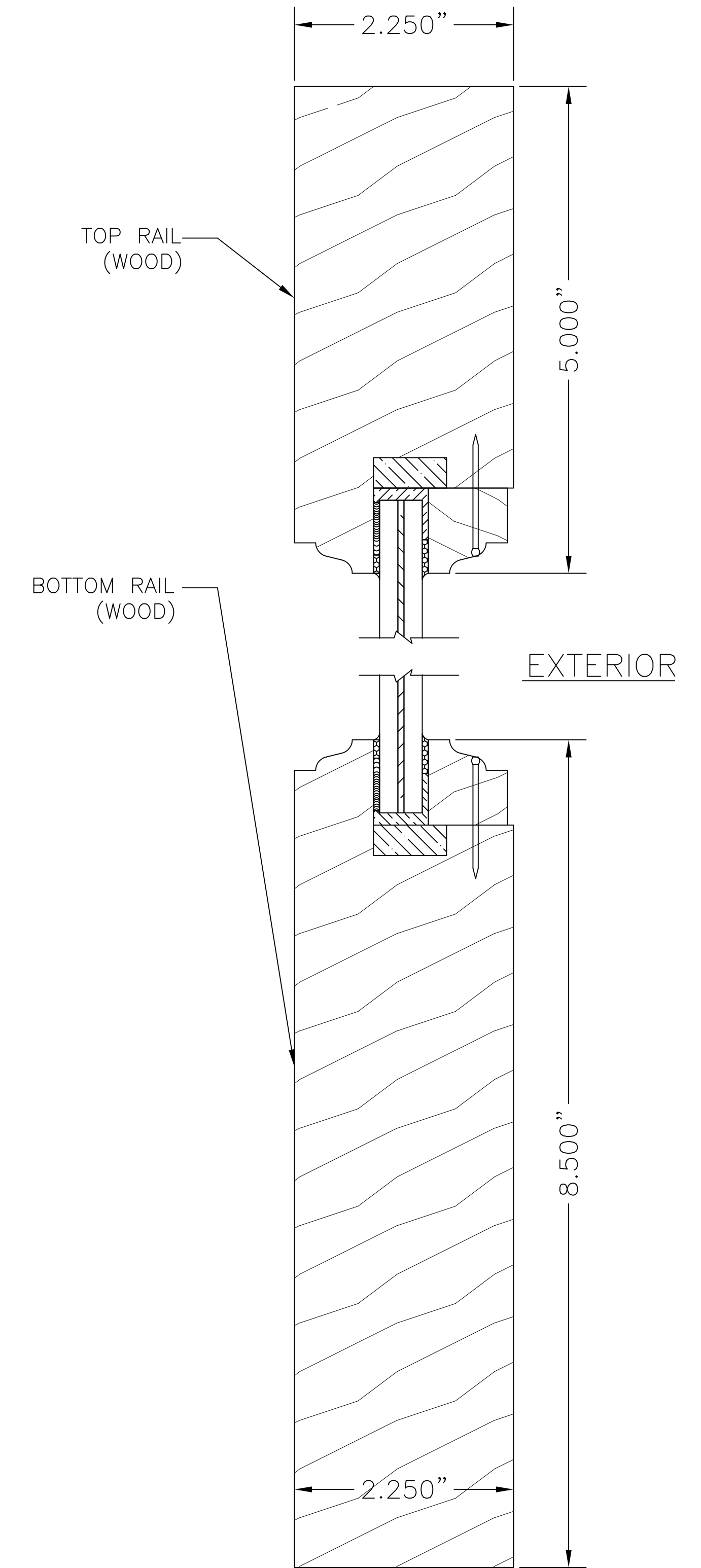
TENON CONSTRUCTION



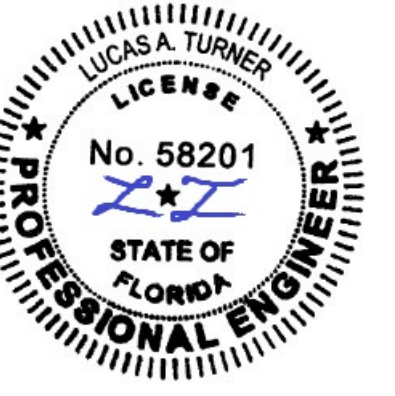
GLAZING BEAD



STEEL REINFORCEMENT



2
2 VERTICAL CROSS SECTION



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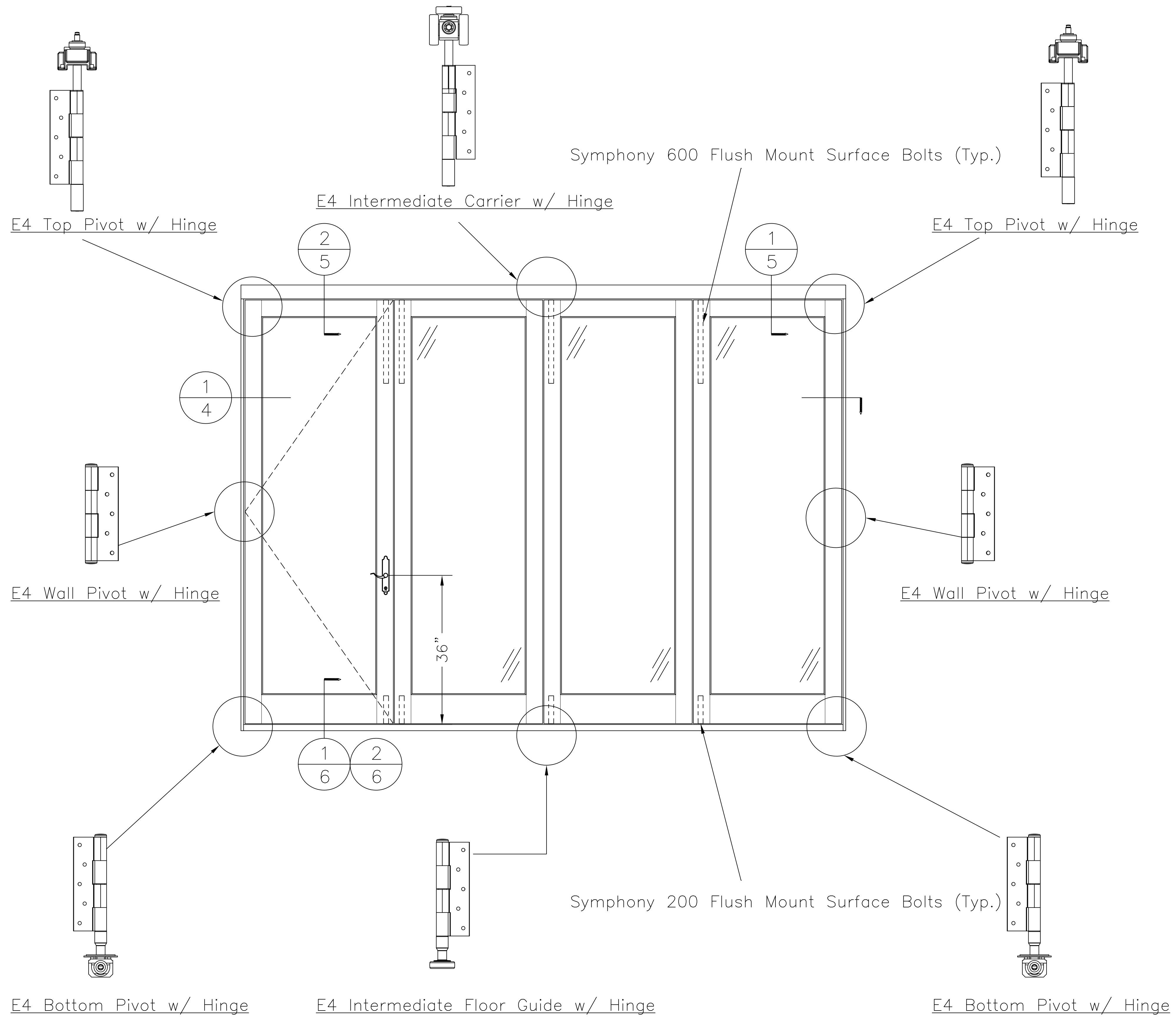
Product: BIFOLDING DOOR PANEL SYSTEM #1
EXTERIOR FOLDING DOOR - OUTSWING - "IMPACT"

DOOR COMPONENTS &
GLAZING DETAILS

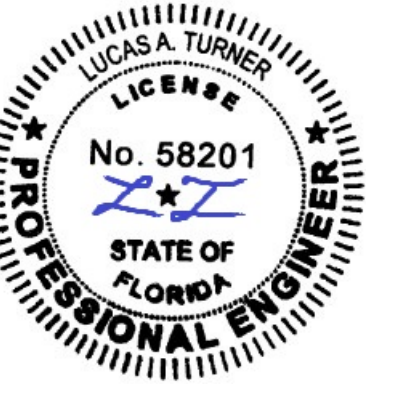
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Scale: None
Drawn: JDS

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ELEVATION
VIEW FROM INTERIOR



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ELEVATION

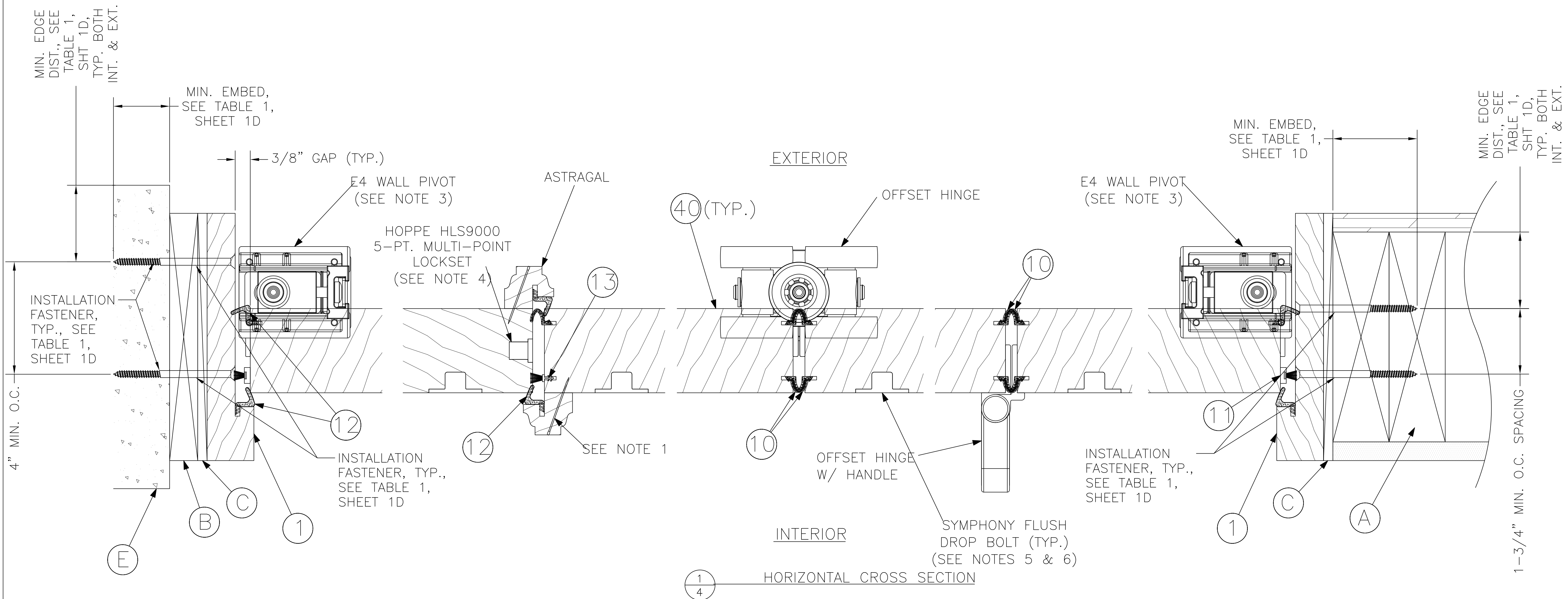
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Drawn: JDS

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Sheet No.
3D OF 8

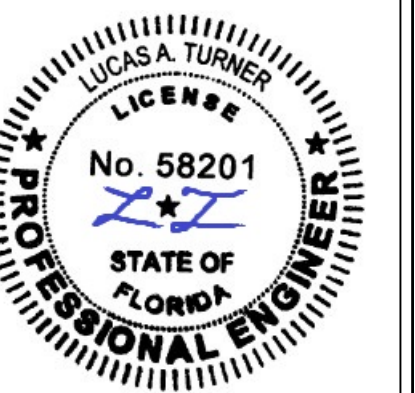
NOTES:

1. Astragal fasteners (by manufacturer) located 3-3/4" from each end and 10" max. o.c. thereafter.
2. All hinges secured to the door slabs w/ (5) #10 x 2" SMS.
3. E4 Wall Pivot secured to the jamb w/ (2) #10 x 2" SMS.
4. Hoppe HLS9000 Multi-point Lockset (Manual Roundbolt / Shootbolt 5-point System).
Standard shootbolt strike plates at the head & sill secured w/ (2) #10 x 2" SMS each.
Standard roundbolt strike plate secured to door w/ (2) #10 x 2" SMS.
Standard latch & deadbolt strike plate secured to door w/ (3) #10 x 2" SMS.
5. Symphony 600 Flush Mount Surface Bolts located @ the top of the door stiles where indicated & attached with (7) #8 x 2" SMS. Strike plate at the head secured w/ (2) #10 x 2" SMS.
6. Symphony 200 Flush Mount Surface Bolts located @ the bottom of the door stiles where indicated & attached with (5) #8 x 2" SMS. Flush bolt cup at the sill secured w/ (2) #10 x 2" SMS.



SHOWN w/ 1X BUCK MASONRY INSTALLATION

SHOWN w/ STUD CONSTRUCTION INSTALLATION



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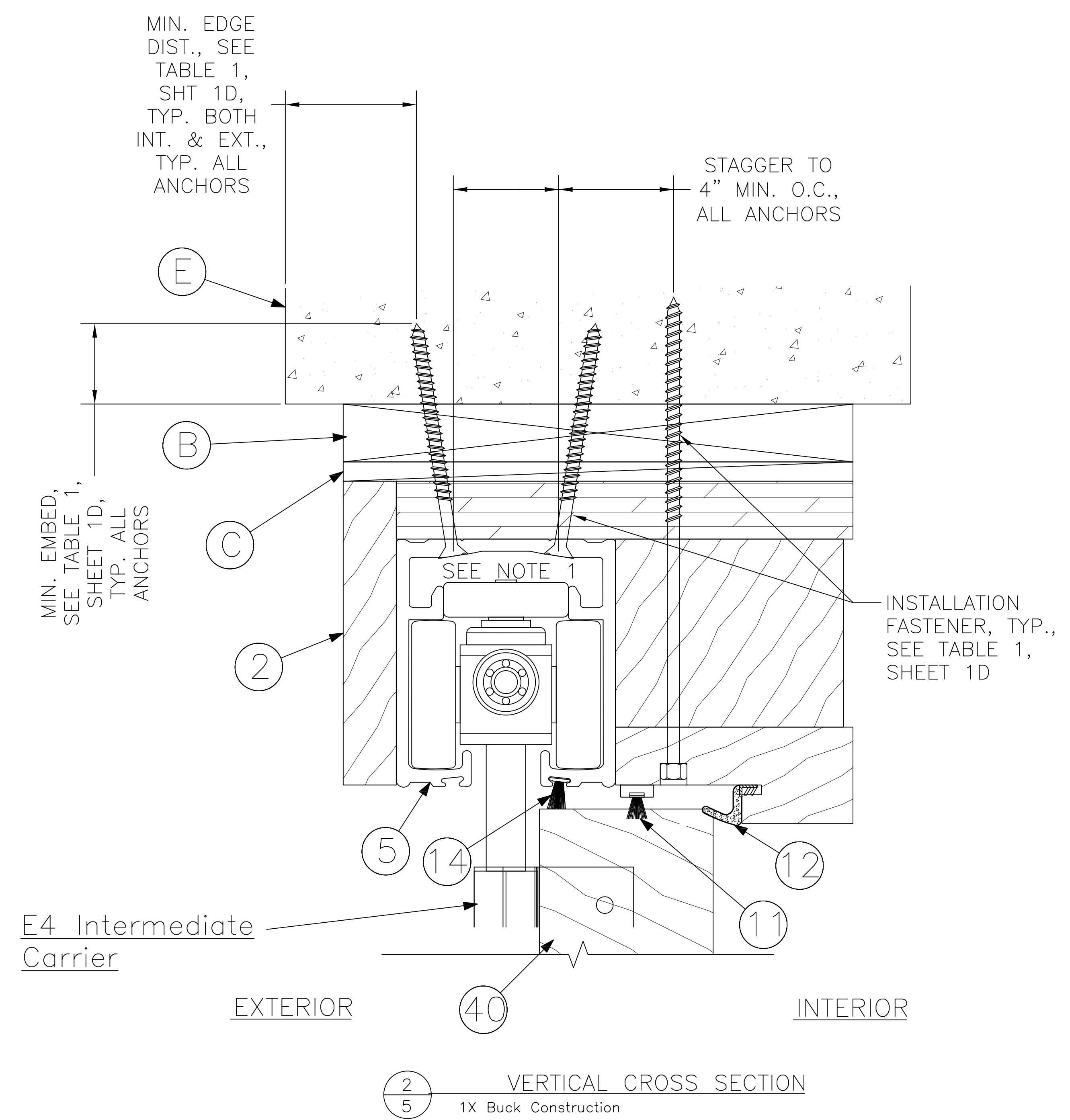
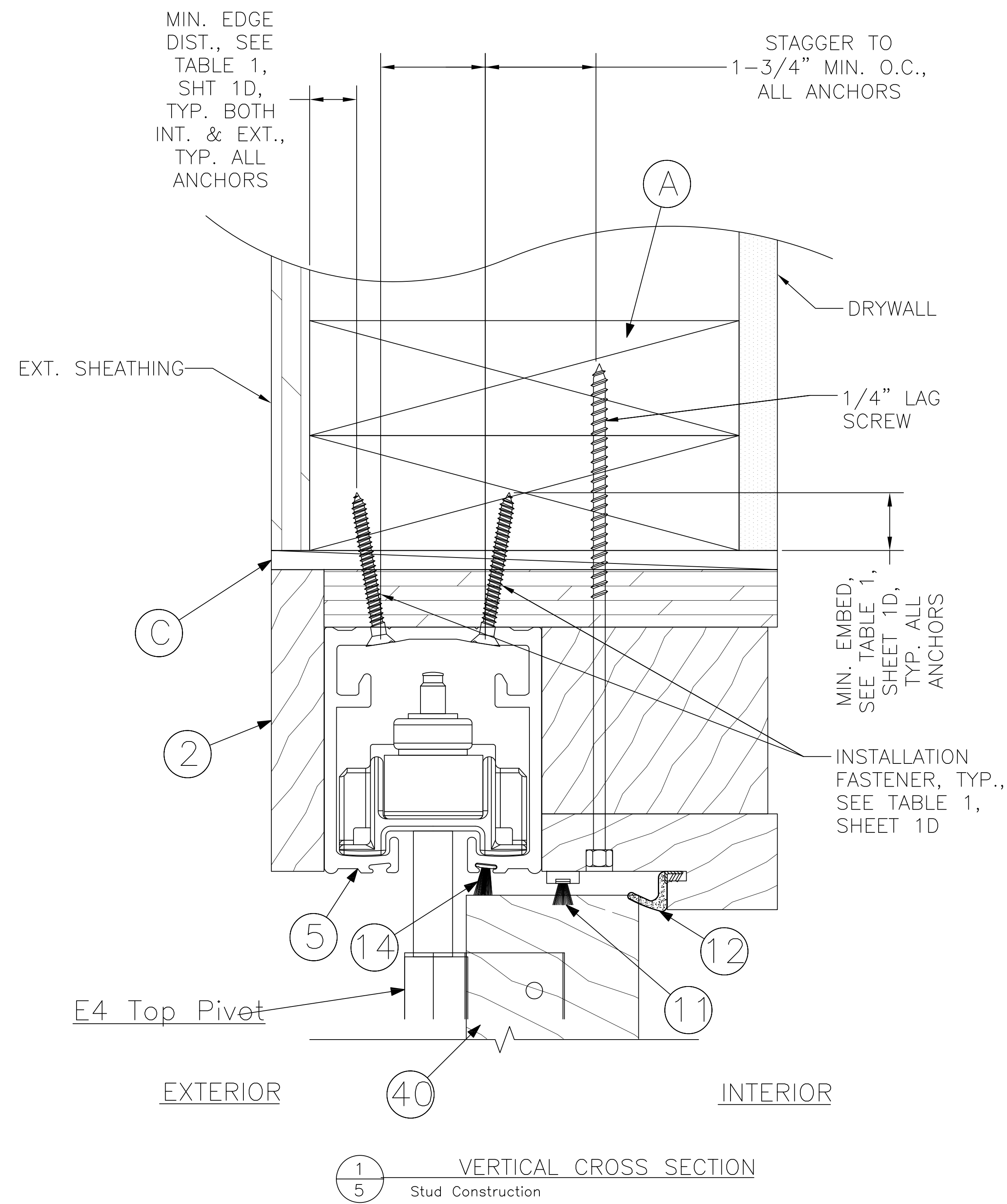
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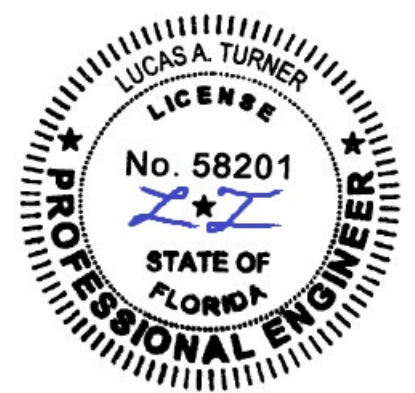
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NOTES:
1. Anchors installed at 9° angle formed by head track.



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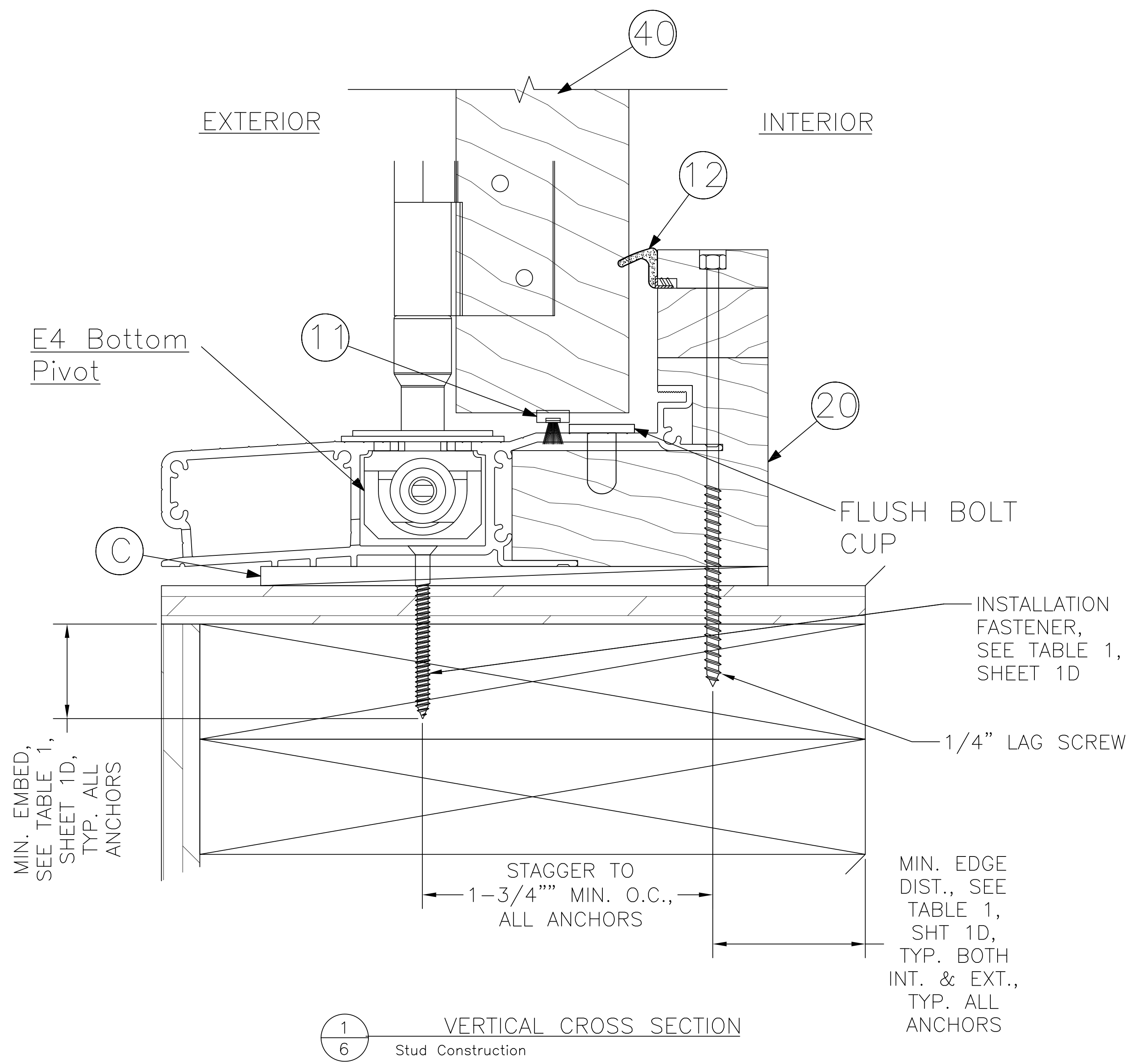
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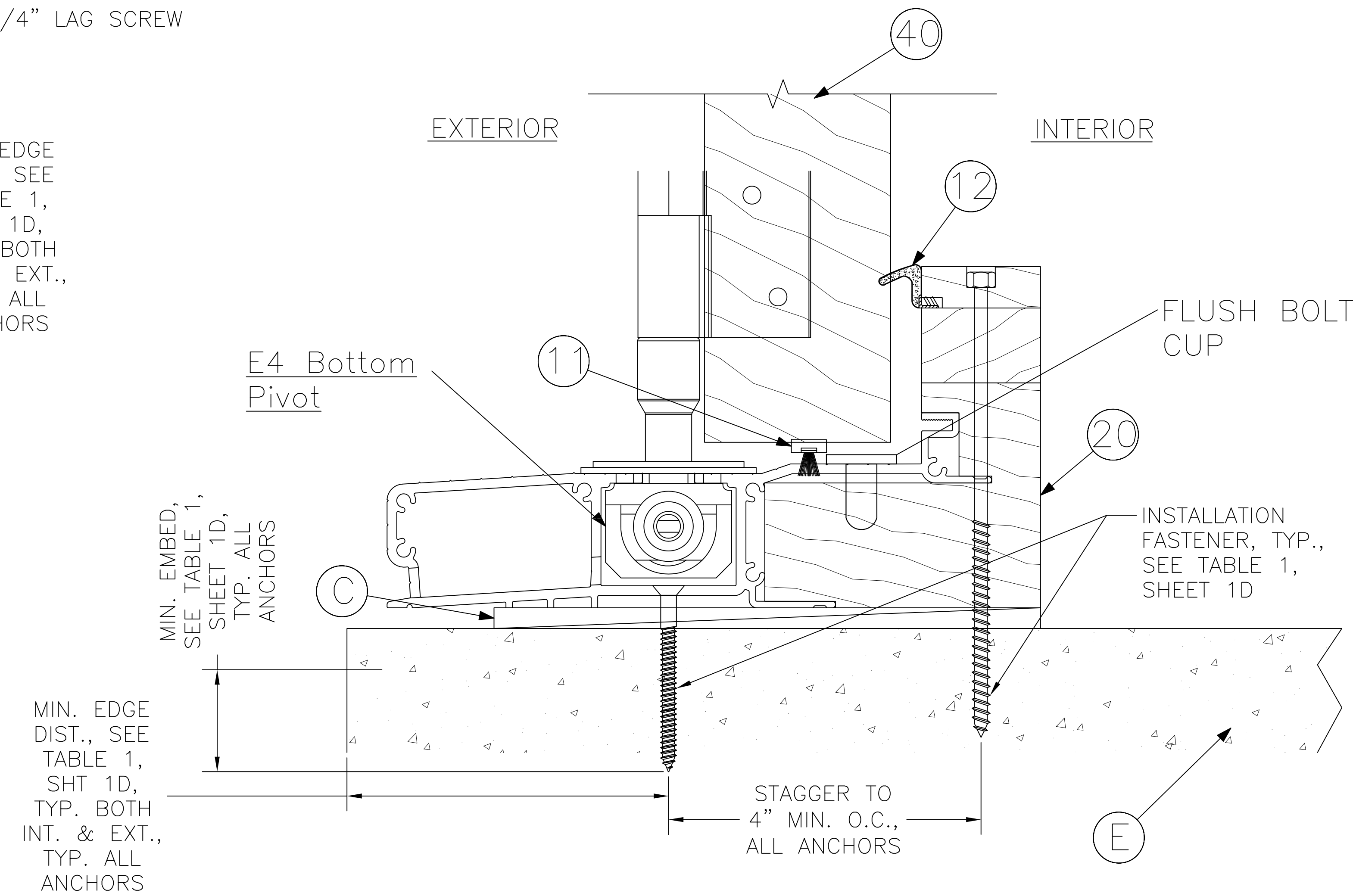
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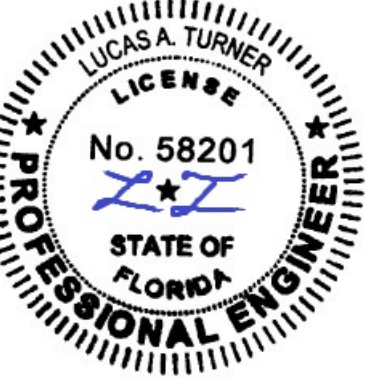
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1
6 VERTICAL CROSS SECTION
Stud Construction



2
6 VERTICAL CROSS SECTION
Direct to Masonry



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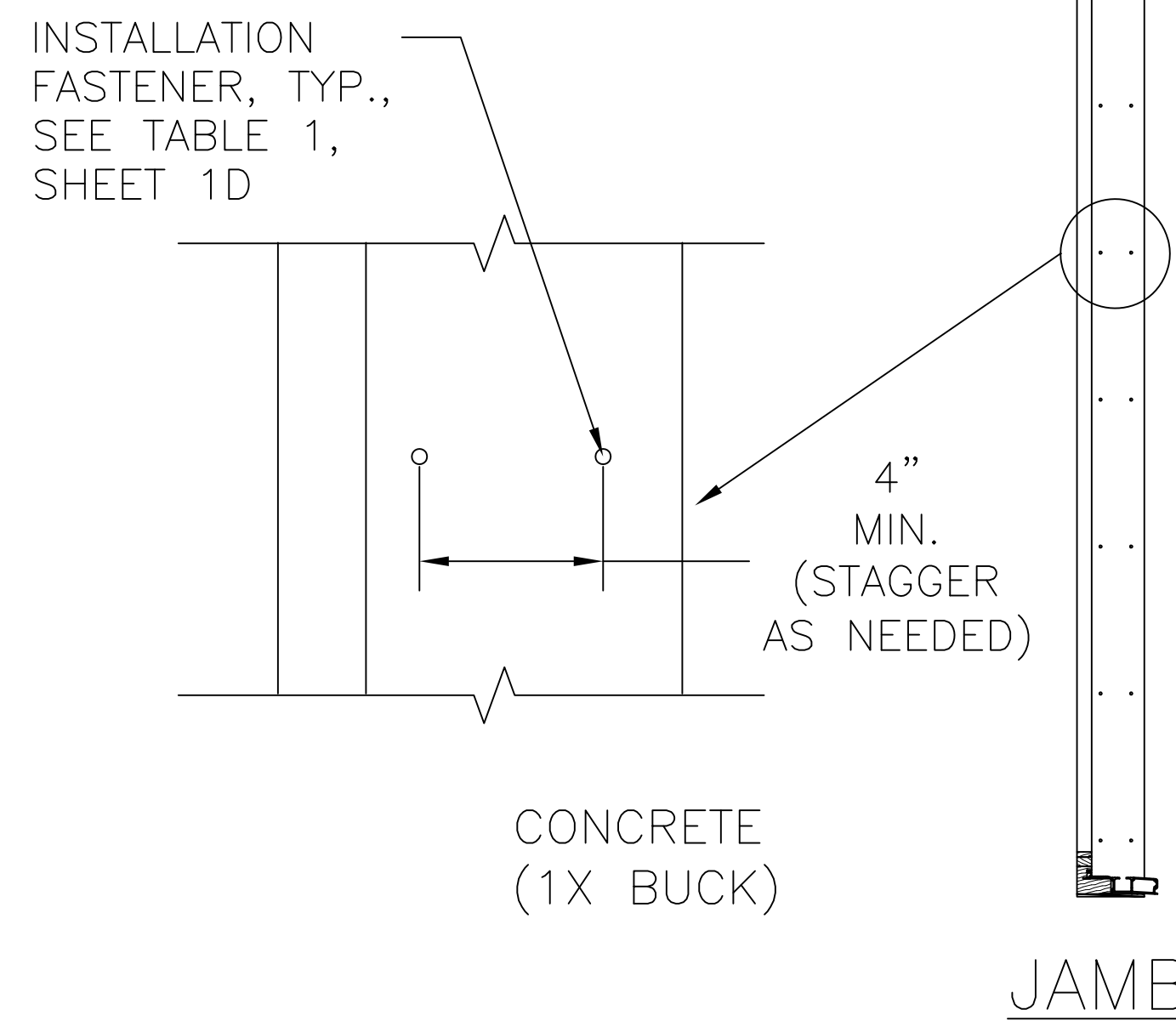
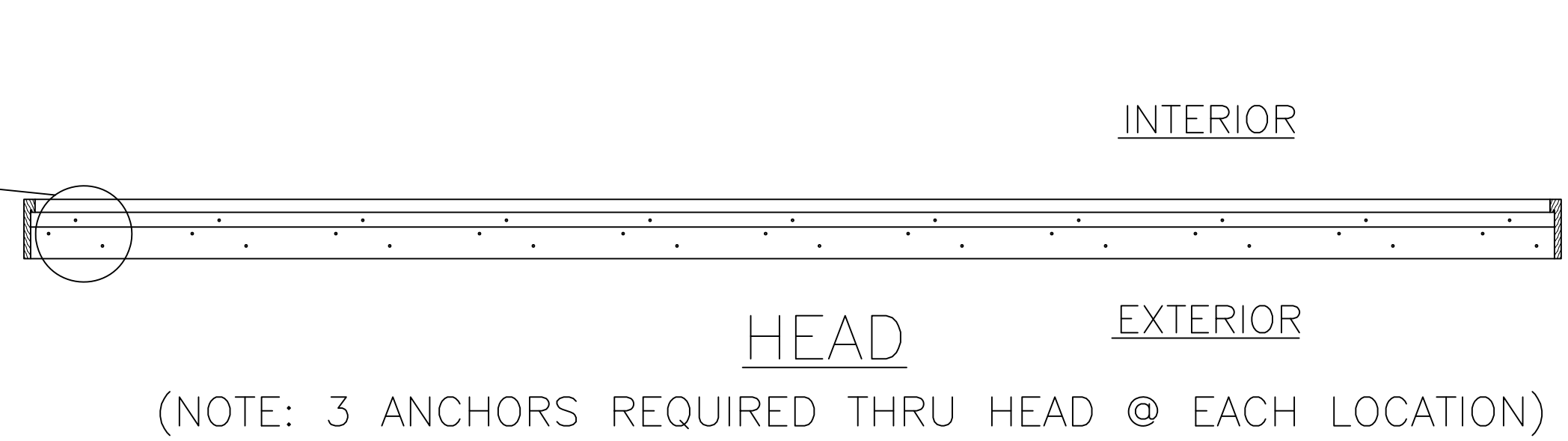
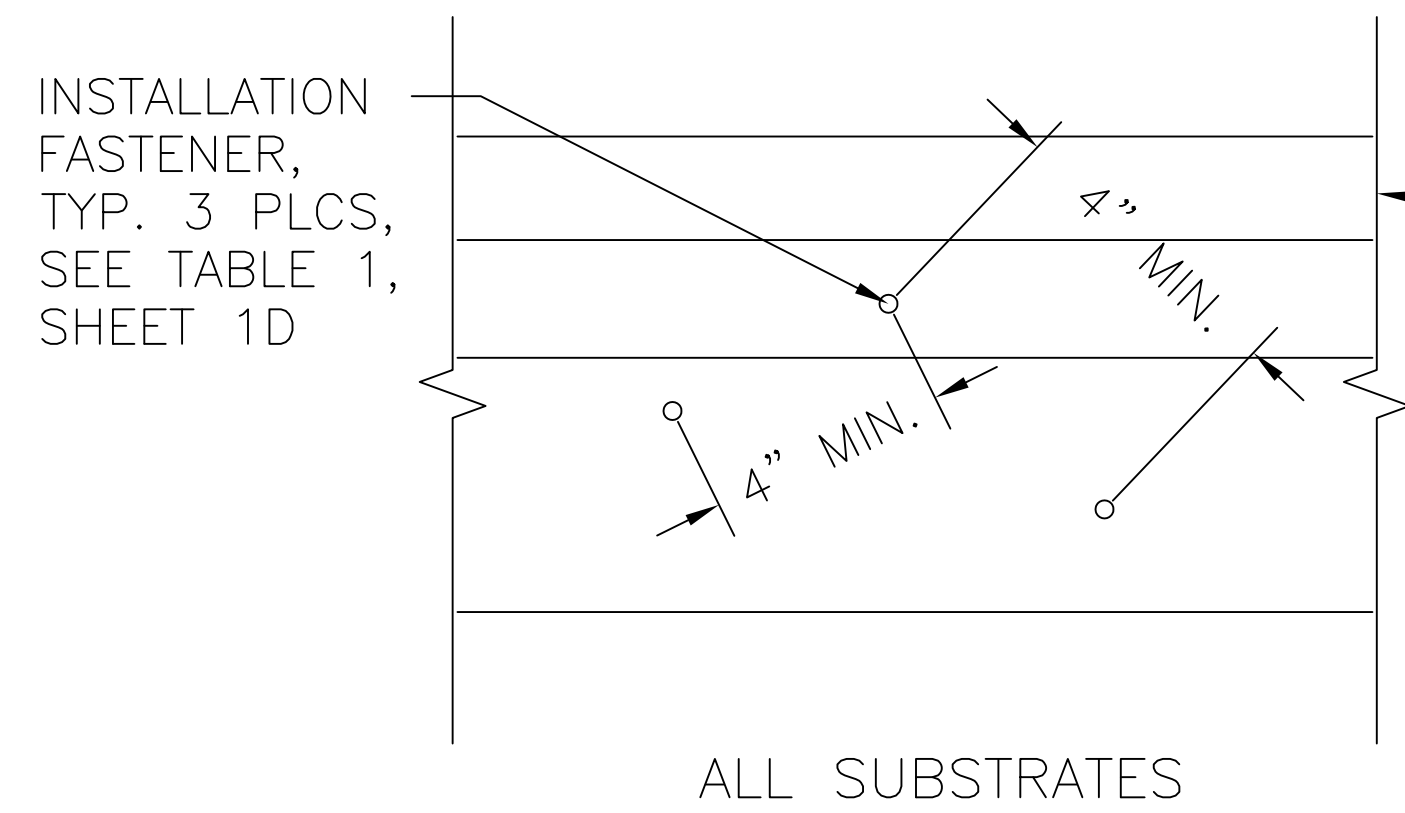
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VERTICAL
CROSS SECTIONS

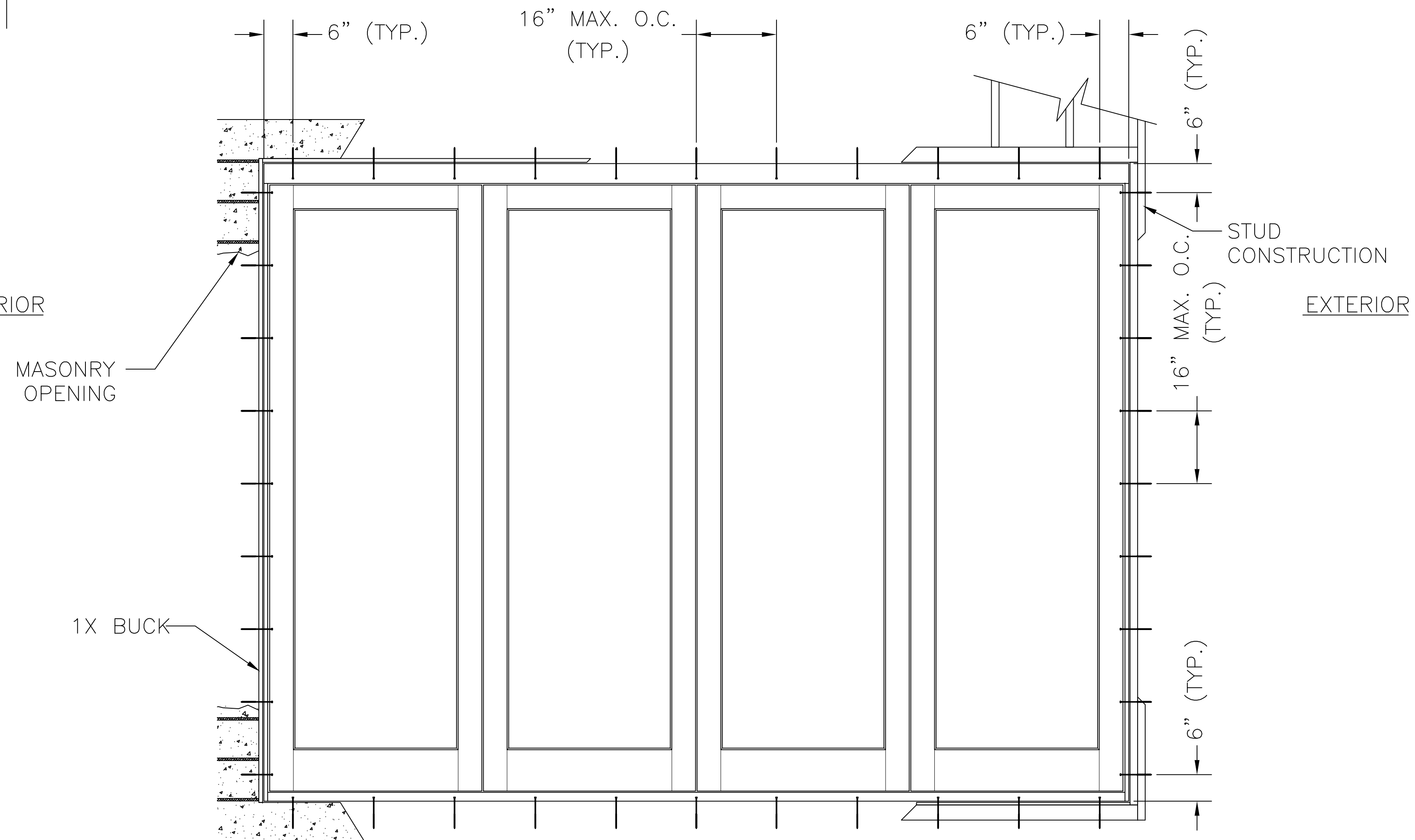
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Sheet No.
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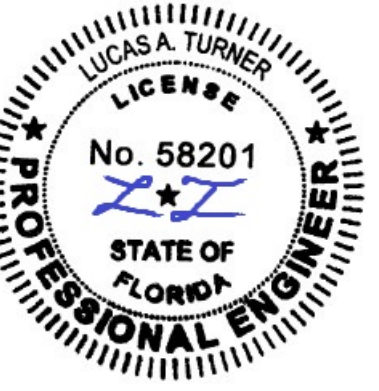
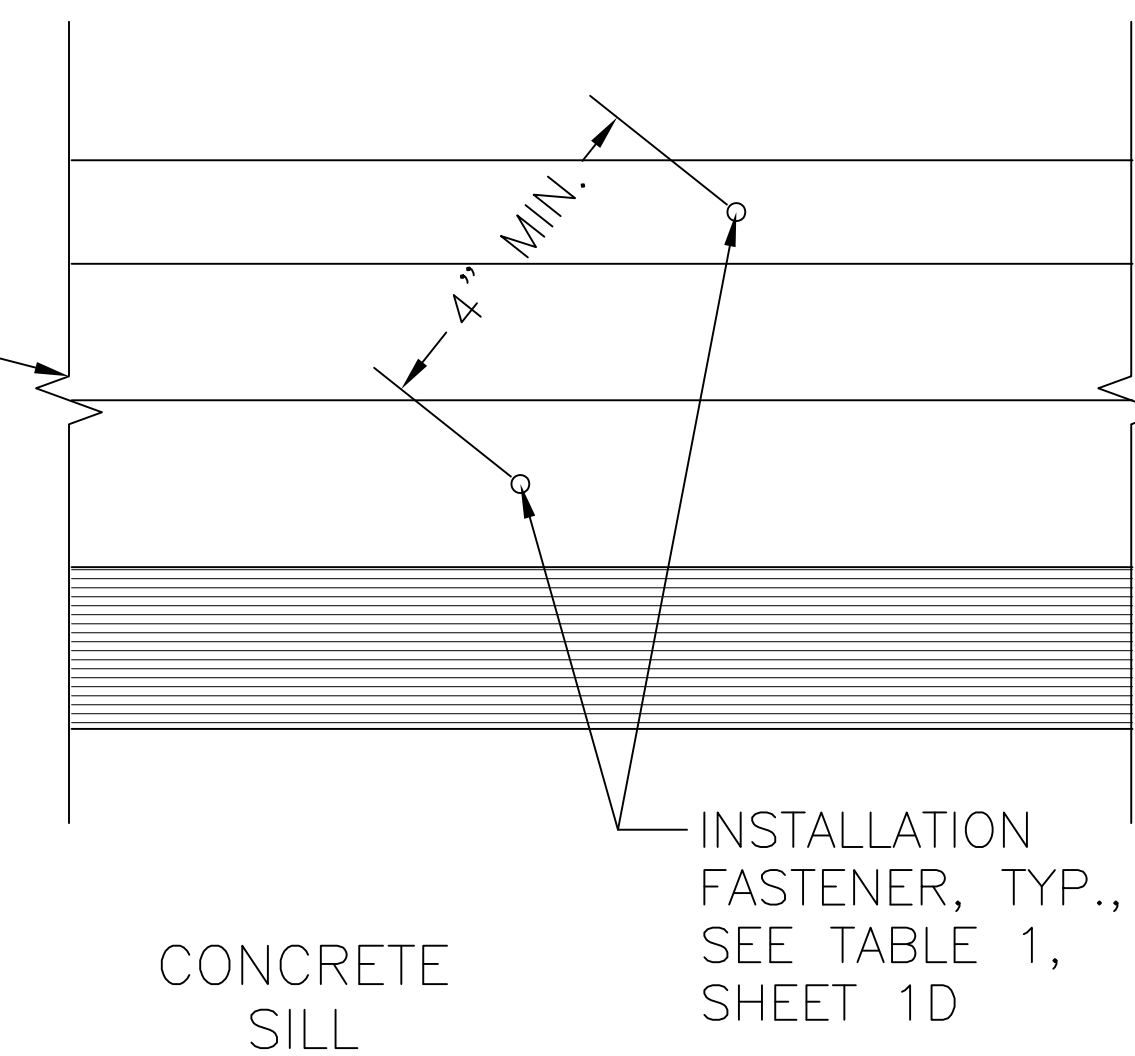
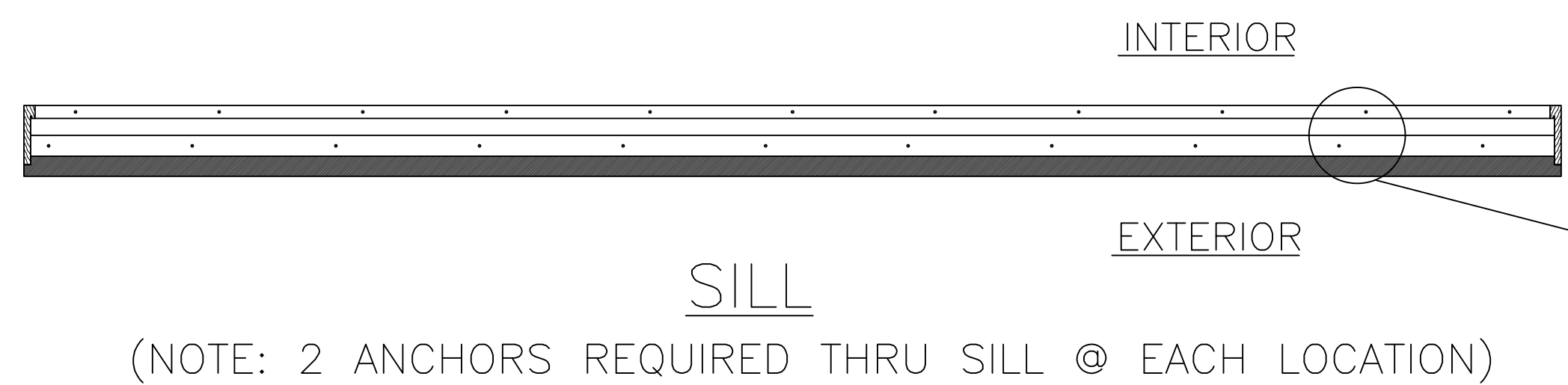
(NOTE: 2 ANCHORS REQUIRED THRU JAMB @ EACH LOCATION)



FRAME ANCHORING

Shown w/ 1x Buck & Stud Construction Installation

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



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FRAME ANCHORING

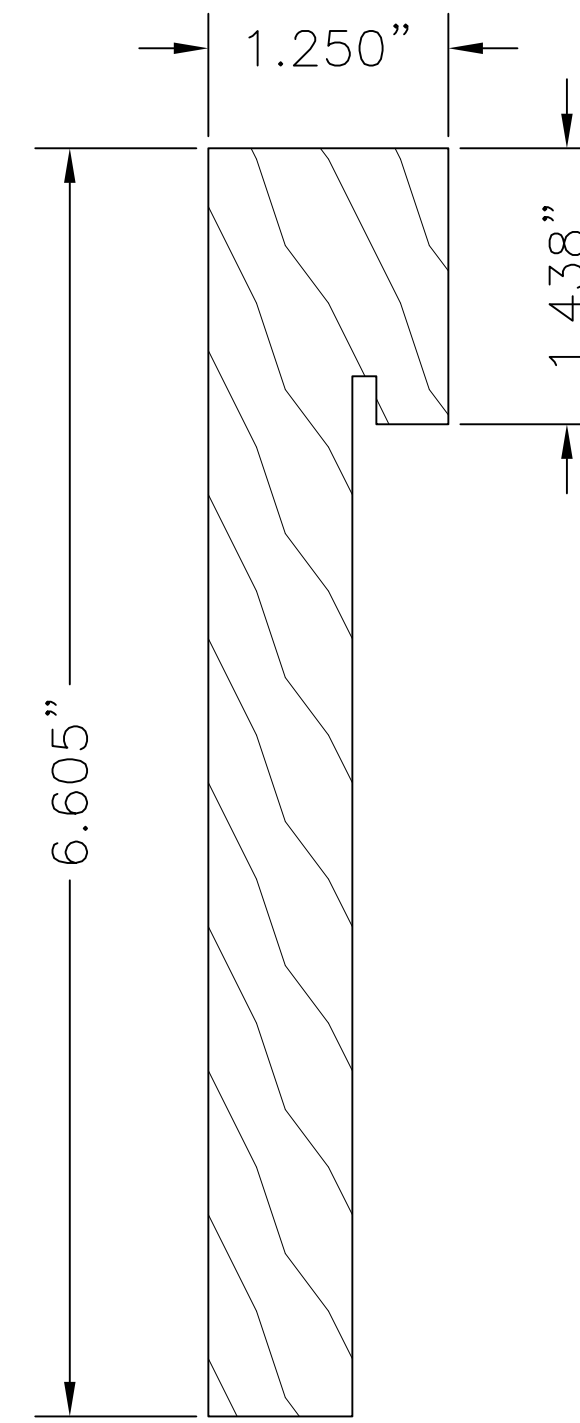
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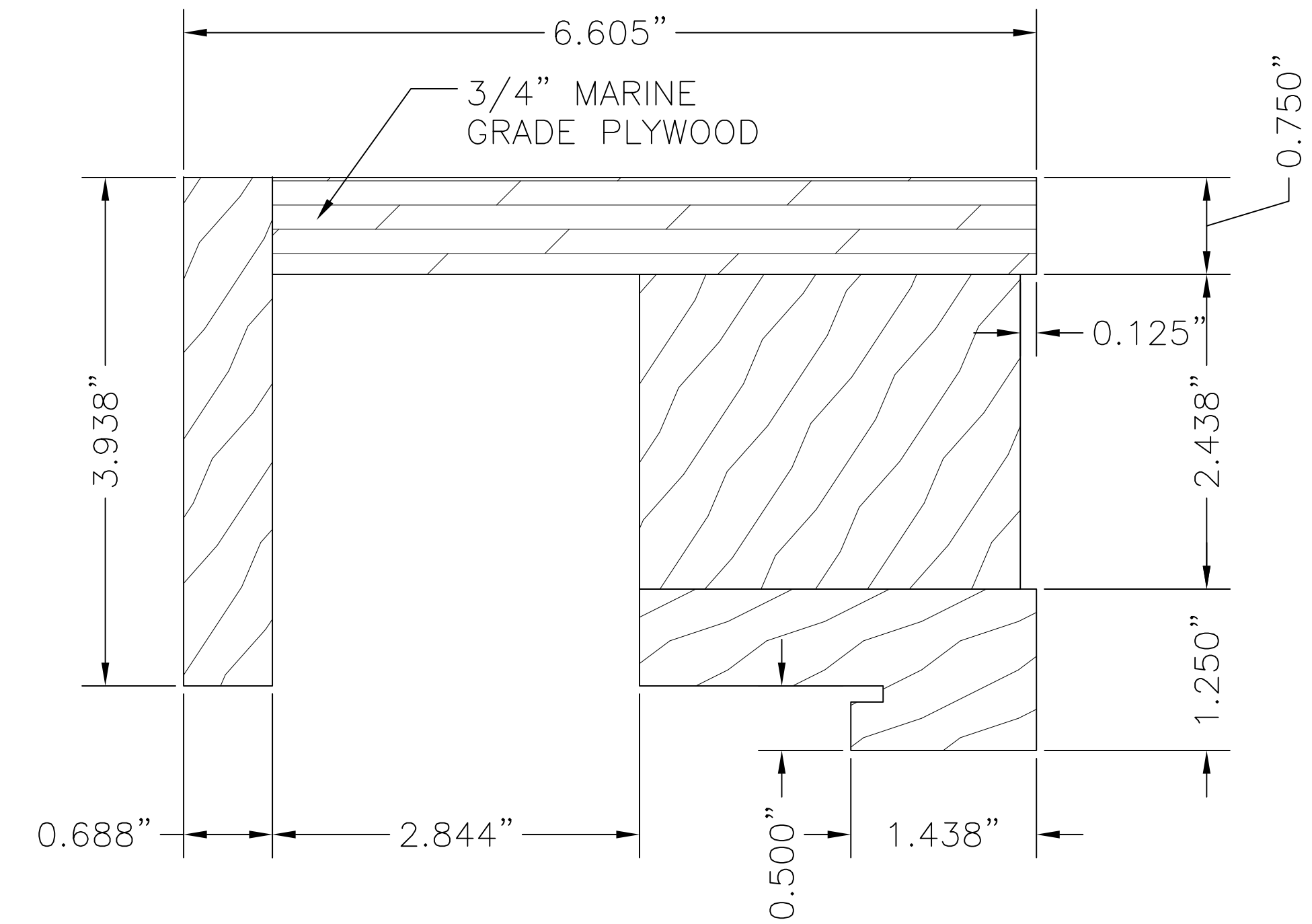
Sheet No.
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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.55)	WOOD
B	1X BUCK (G>=0.55)	WOOD
C	¼" MAX.SHIM SPACE	-
E	MASONRY – 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
1	FRAME 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

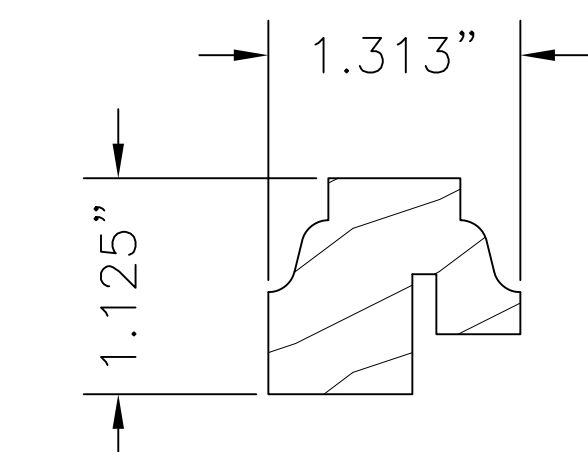
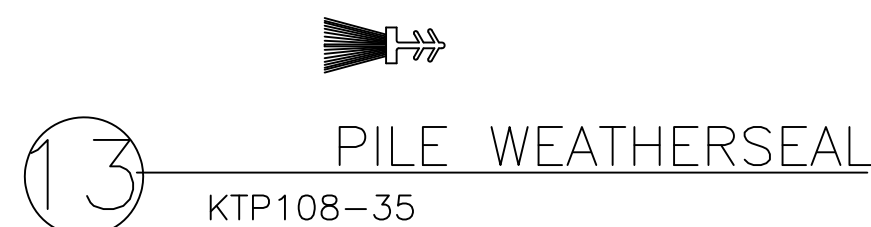
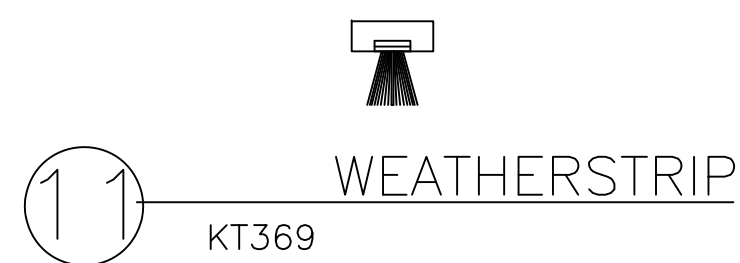
NOTE: DOOR FRAME COMPONENTS (WOOD/PLYWOOD) MIN. G=0.50 (MAHOGANY OR SIMILAR)



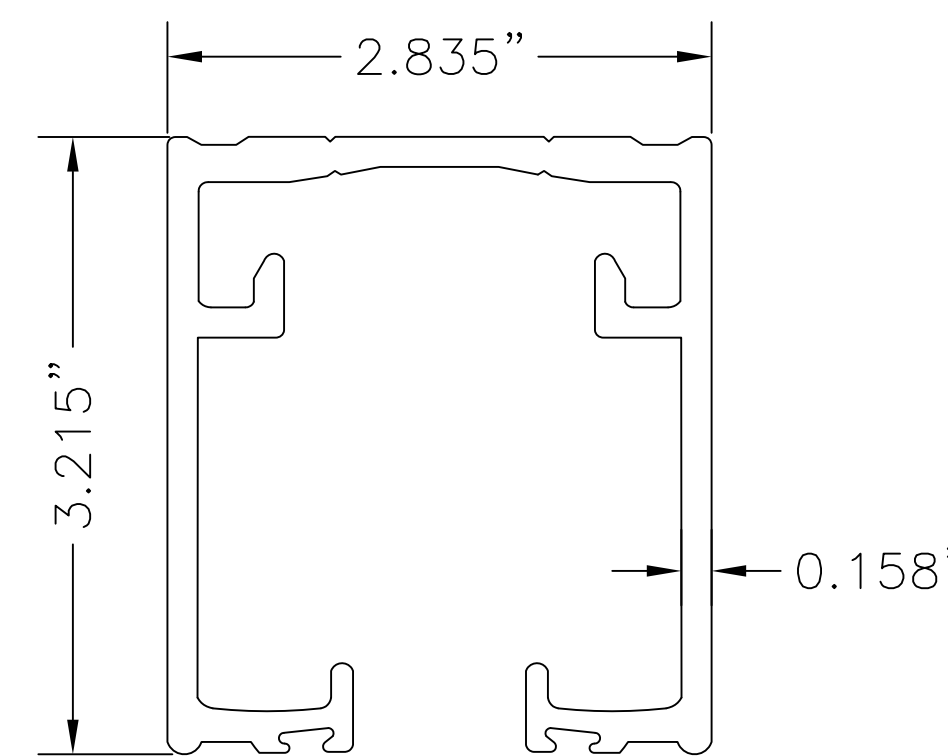
① FRAME JAMB w/ DOOR STOP
WOOD



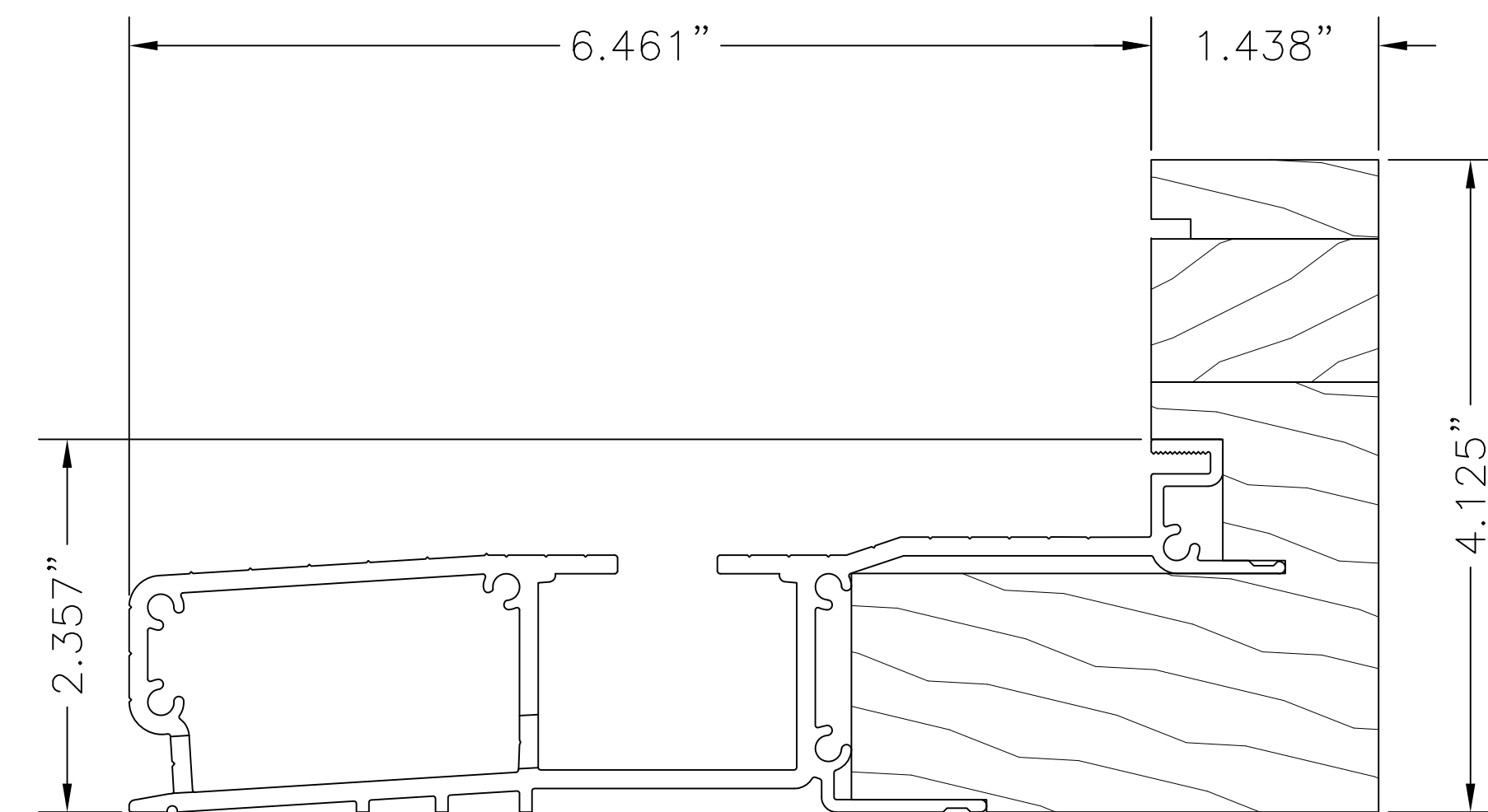
② FRAME HEAD CHANNEL W/ DOOR STOP
WOOD/PLYWOOD



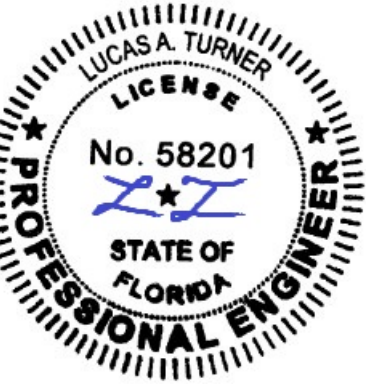
③ ASTRAGAL
WOOD



⑤ HEAD TRACK
KT80



②① SILL ASSEMBLY
KT941/WOOD STILL



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