

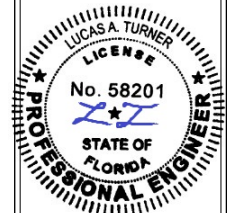
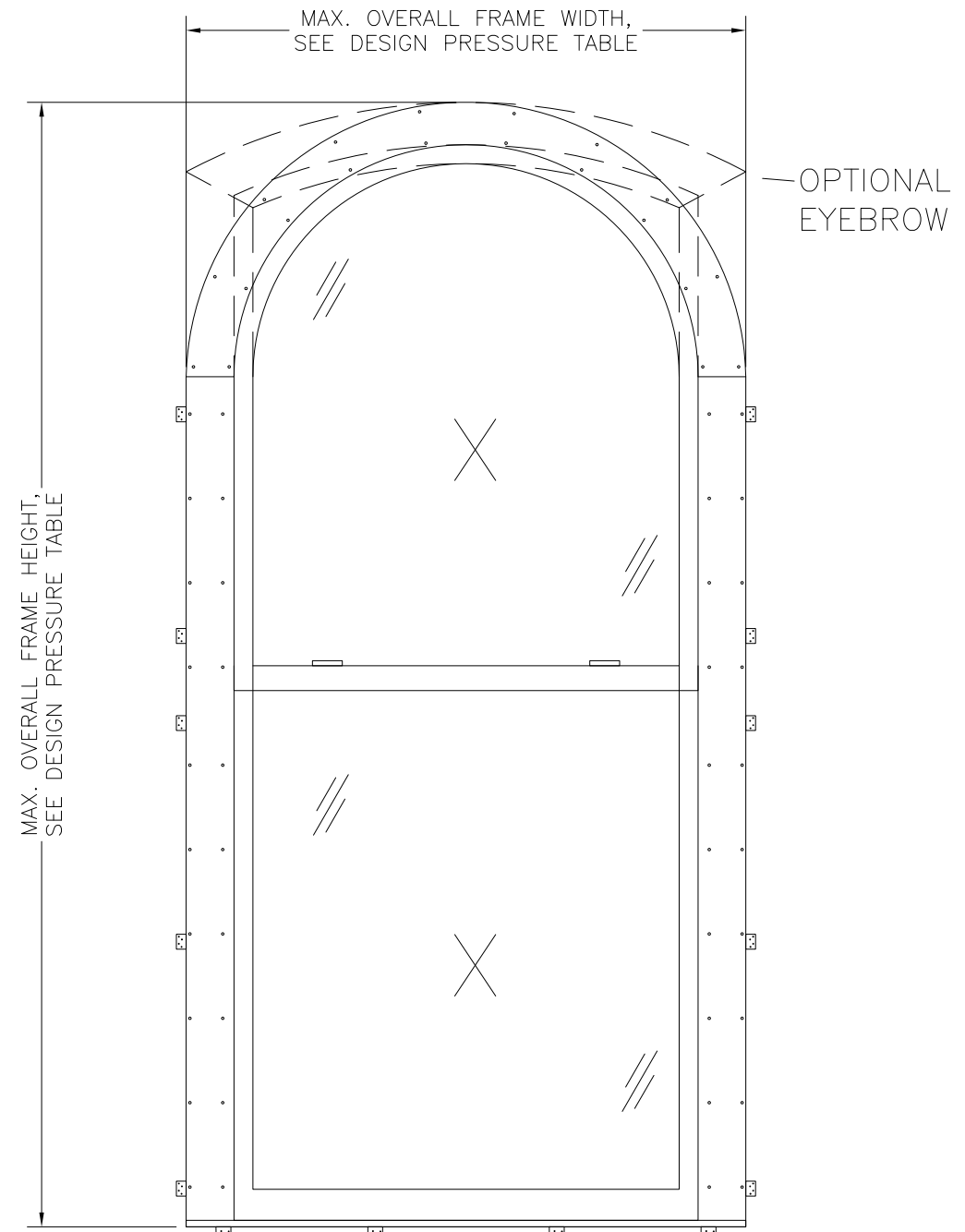
SERIES 4000 ARCH OR EYEBROW
 DOUBLE HUNG WINDOW – WEIGHT AND CHAIN – "IMPACT"
 BY OWW LLC

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. All window frame wood to be Specific Gravity of 0.55 min. (Sapele or similar).
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." 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.

DESIGN PRESSURE TABLE

MAX. OVERALL FRAME SIZE	MAX. D.L.O. SIZE	GLASS TYPE	DESIGN PRESSURE RATING
56-3/8" X 111-3/8"	43" X 50-1/2"	A	+/-50 PSF
		B	+60/-65 PSF



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 PH. 941-380-1574
 2428 OLD MATCHEZ TRACE TRAIL
 CAMDEN, TN 38320

OWW LLC
 3001 Tuvedo Ave., West Palm Beach, FL 33405
 Ph. 561-478-7233 Fax 561-478-7858

Product: SERIES 4000 ARCH TOP DOUBLE HUNG WEIGHT AND CHAIN WINDOW
 Date: 05-07-14
 Scale: None
 Drawn: JDS
 TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

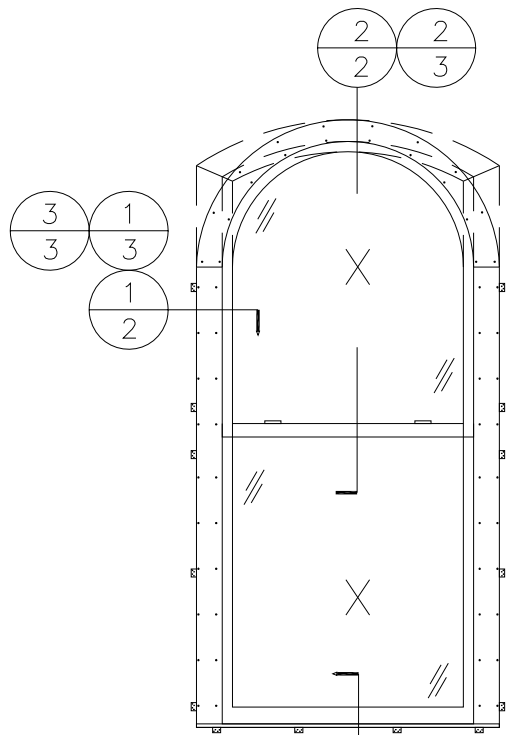
Dwg: DH-ARWC
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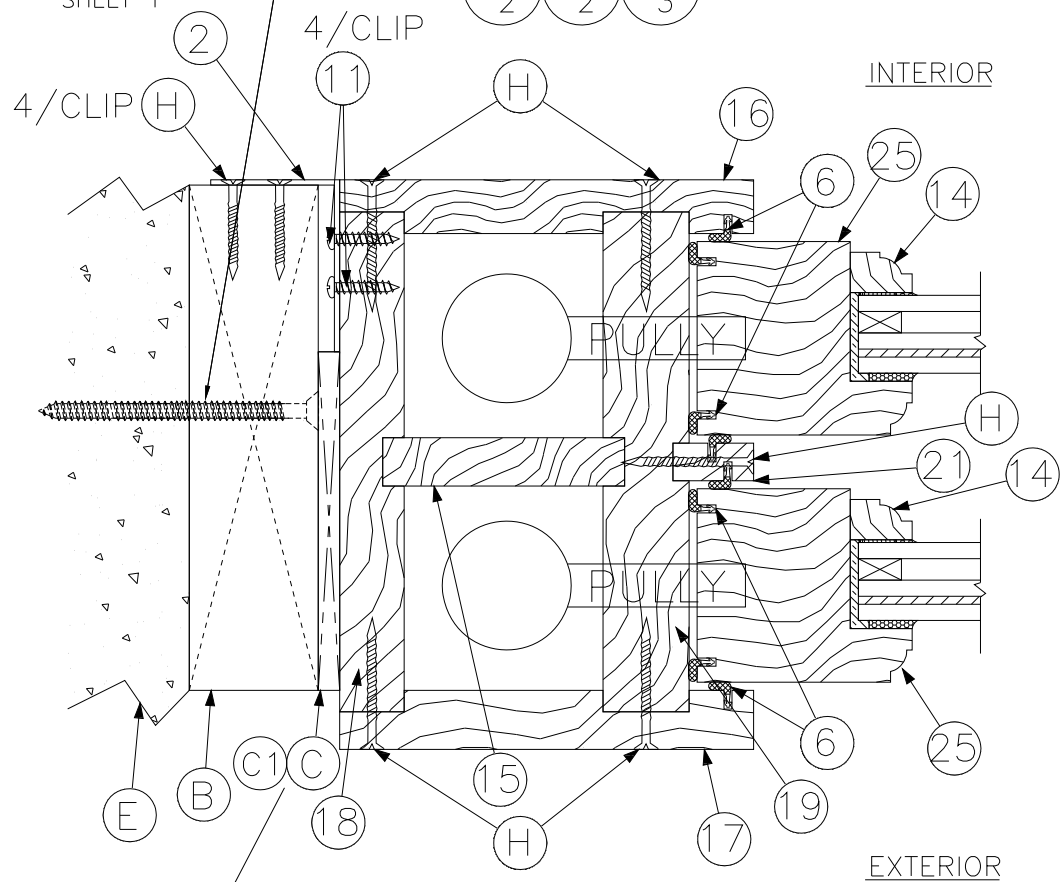
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Horizontal and vertical cross sections
3	Horizontal and vertical cross sections
4	Frame details
5	Buck and frame anchoring
6	Components
7	Bill of materials, glazing details and components

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"	1"
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 W/ ADVANCED THREADFORM	1 1/2"	1 1/2"
D	HOLLOW CMU (117 PCF MIN.) (JAMBS ONLY)	1/4" ITW COATED CARBON STEEL TAPCON W/ ADVANCED THREADFORM	1"	2"
E	CONCRETE (3000 PSI MIN)	1/4" HILTI COATED CARBON STEEL KWIK-CON+	1"	2 1/2"
F	HOLLOW OR GROUT-FILLED CMU (ASTM C-90) (JAMBS ONLY)	1/4" HILTI COATED CARBON STEEL KWIK-CON+	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"



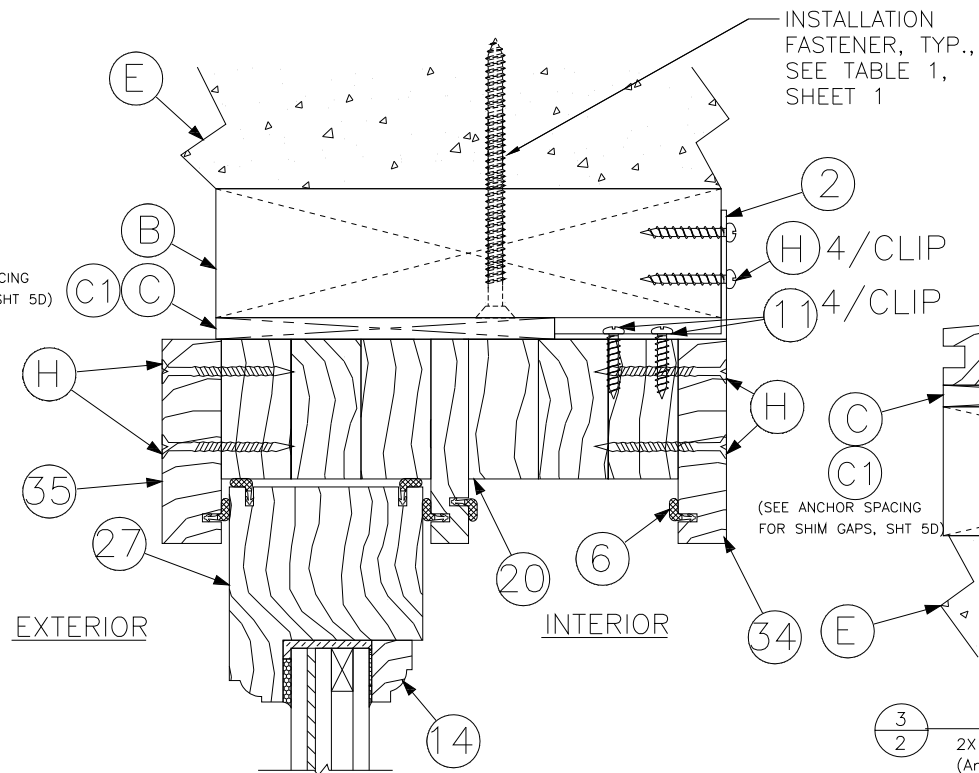
INSTALLATION FASTENER, TYP., SEE TABLE 1, SHEET 1



(SEE ANCHOR SPACING FOR SHIM GAPS, SHT 5D)

1
2 HORIZONTAL CROSS SECTION
2X Buck Construction (Anchor Clip Installation)

(SEE ANCHOR SPACING FOR SHIM GAPS, SHT 5D)

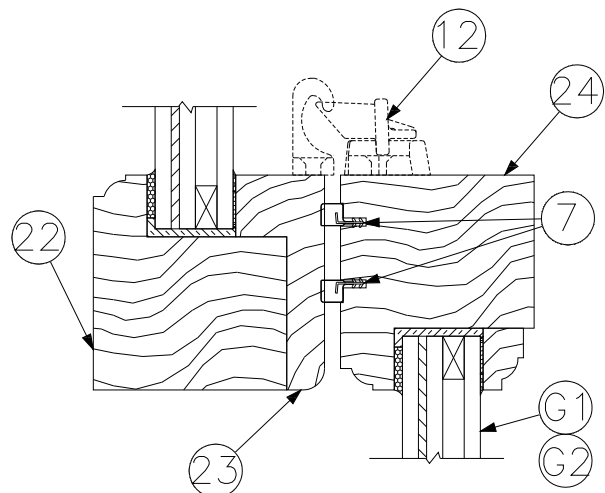


INSTALLATION FASTENER, TYP., SEE TABLE 1, SHEET 1

(SEE ANCHOR SPACING FOR SHIM GAPS, SHT 5D)

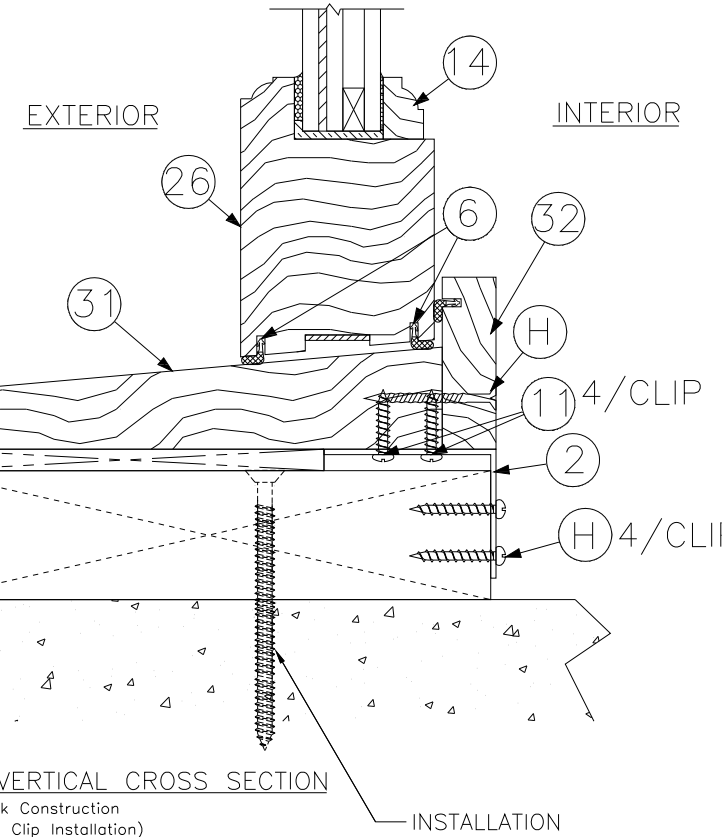
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2 VERTICAL CROSS SECTION
2X Buck Construction (Anchor Clip Installation)

INSTALLATION FASTENER, TYP., SEE TABLE 1, SHEET 1



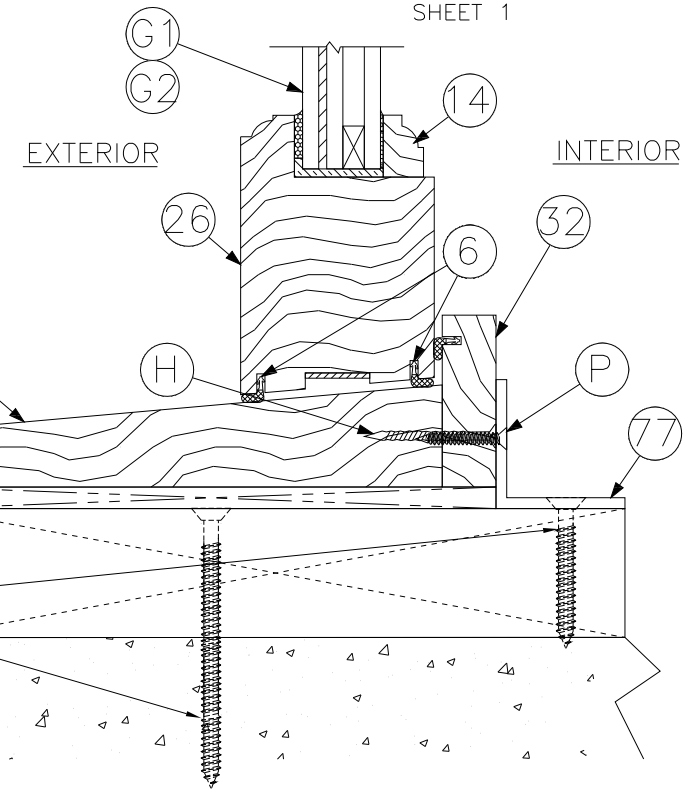
(SEE ANCHOR SPACING FOR SHIM GAPS, SHT 5D)

C1
C VERTICAL CROSS SECTION
2X Buck Construction (Aluminum Angle Installation)

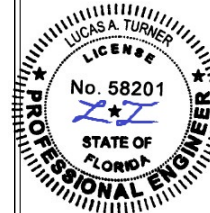


3
2 VERTICAL CROSS SECTION
2X Buck Construction (Anchor Clip Installation)

INSTALLATION FASTENER, TYP., SEE TABLE 1, SHEET 1



4
2 VERTICAL CROSS SECTION
2X Buck Construction (Aluminum Angle Installation)



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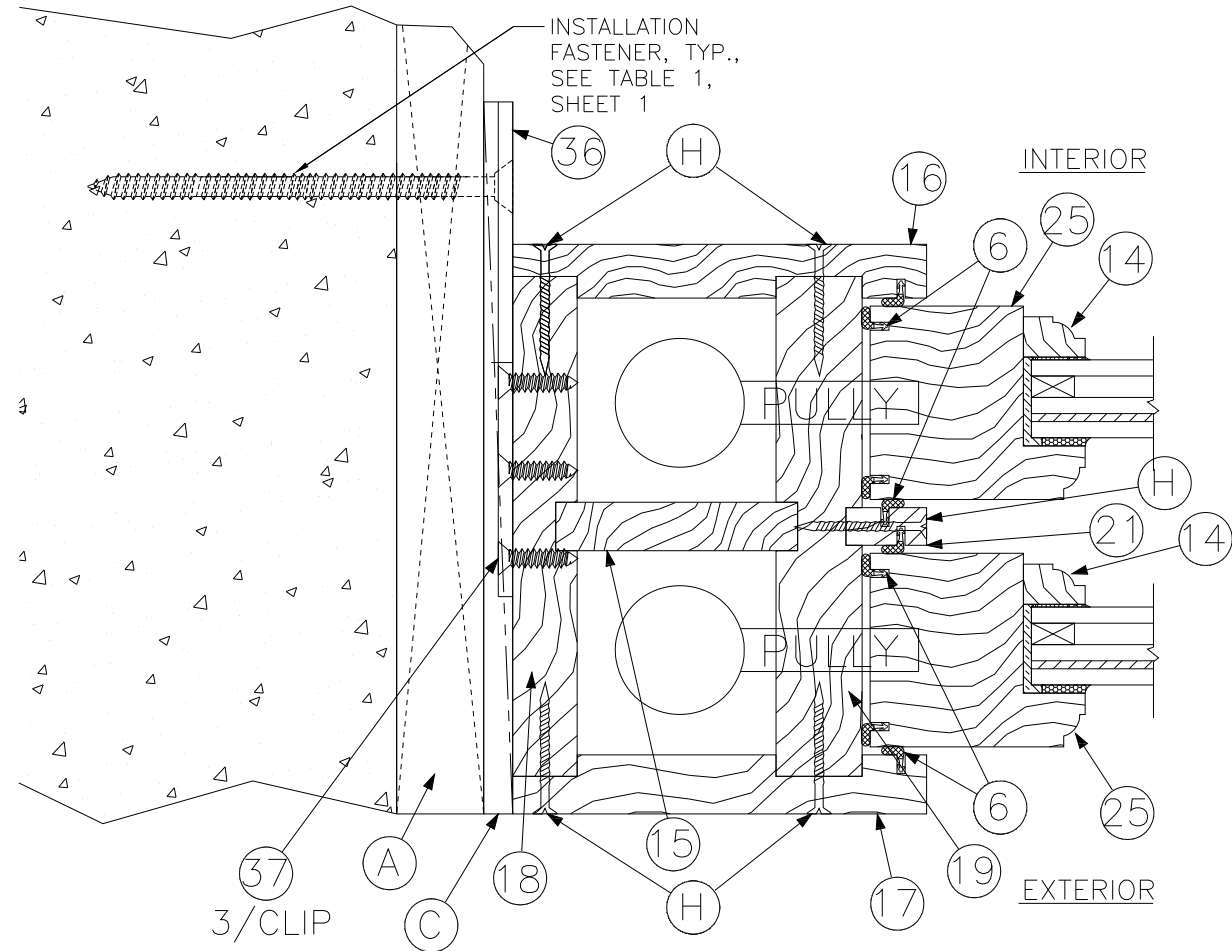
OWW LLC
3001 Tuvedo Ave., West Palm Beach, FL 33405
Ph. 561-478-7233 Fax 561-478-7858

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Date: 05-07-14
Scale: None
Drawn: JDS

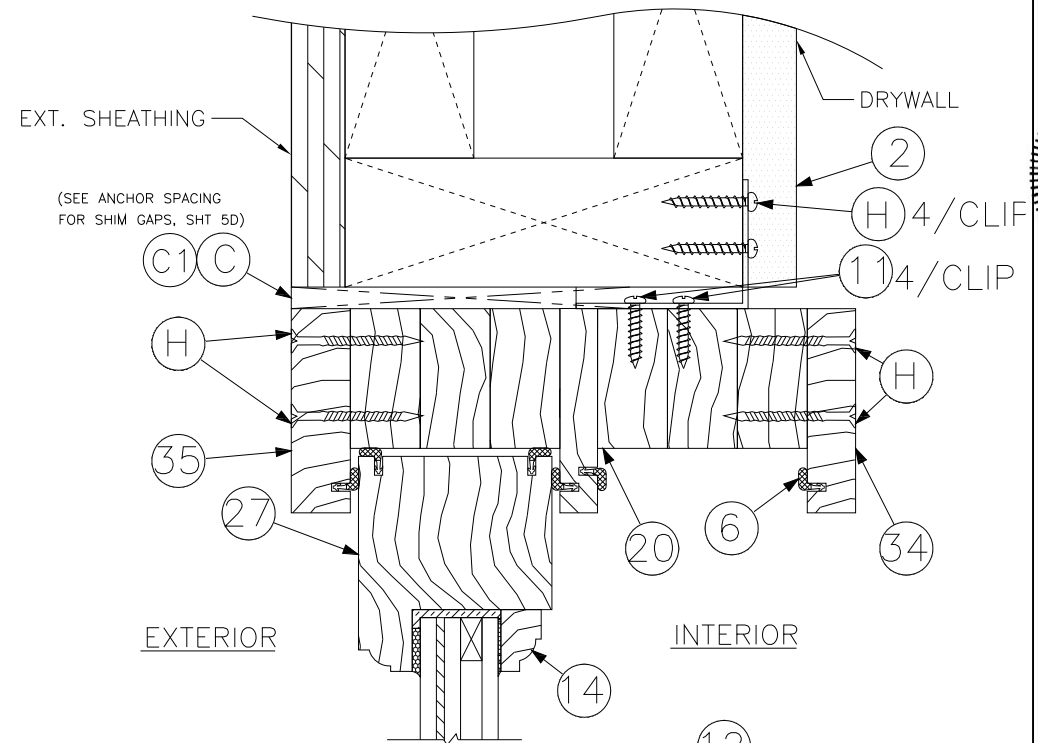
HORIZONTAL AND VERTICAL CROSS SECTIONS

Dwg: DH-ARWC
FL34941.1

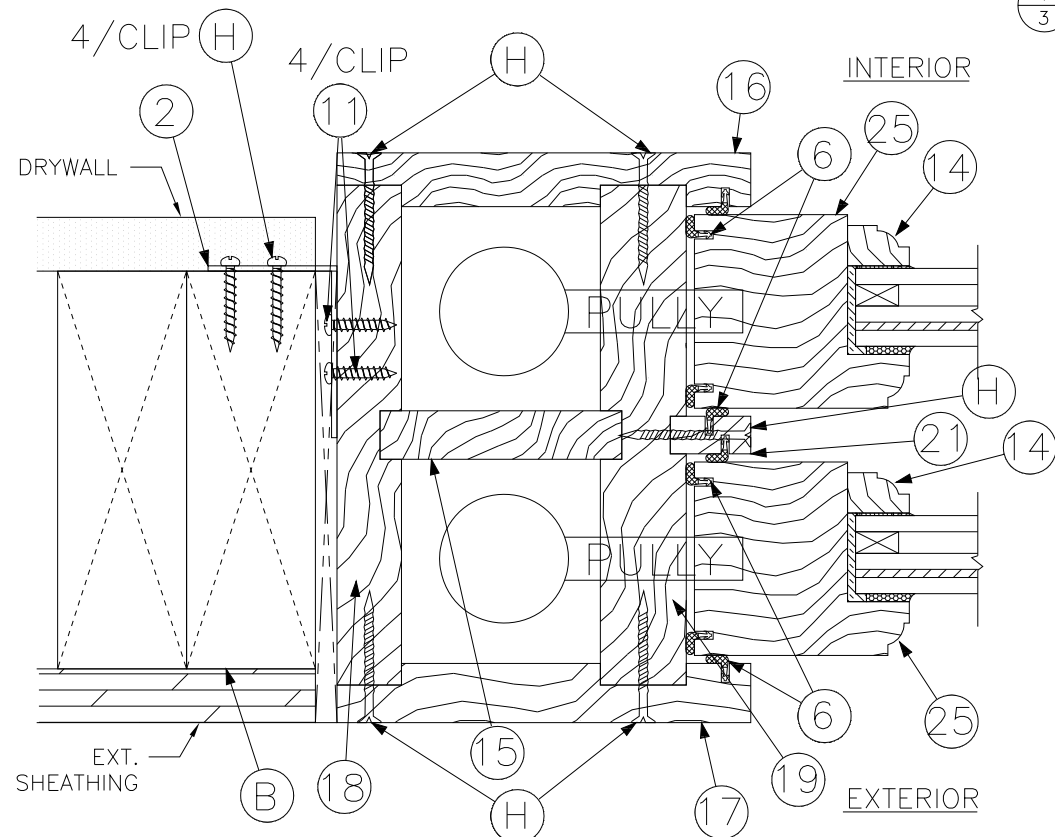
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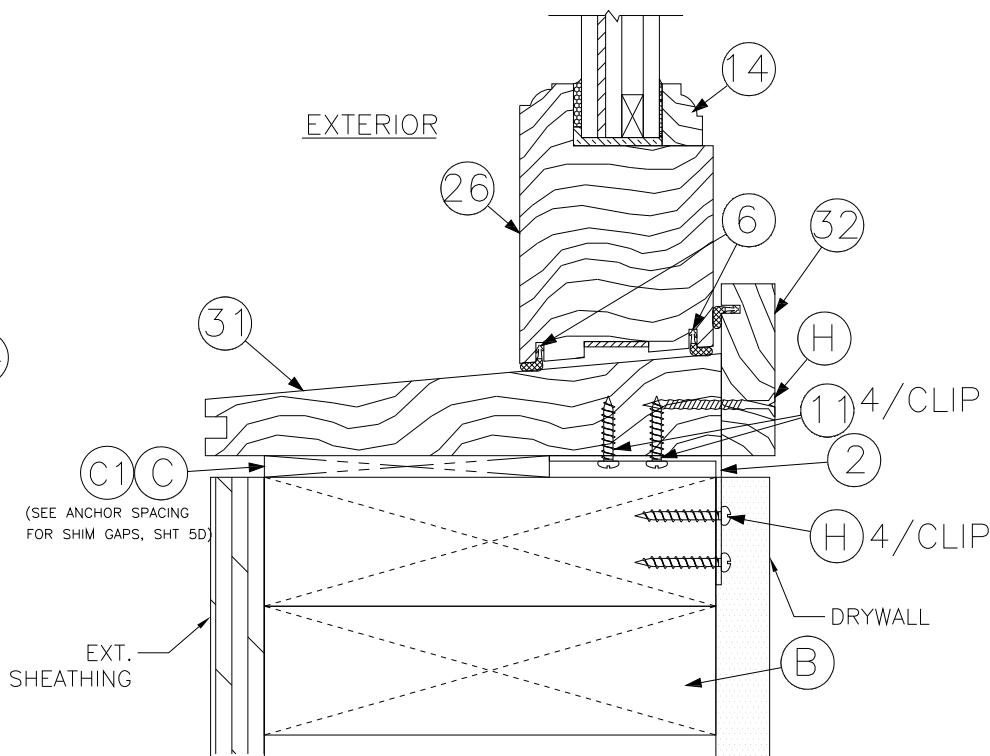
1
3 HORIZONTAL CROSS SECTION
Flat Strap Installation
(1x Buck shown, Strap may be used w/ any substrate type)



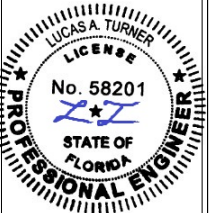
2
3 VERTICAL CROSS SECTION
2X Stud Construction
(Anchor Clip Installation)



3
3 HORIZONTAL CROSS SECTION
2X Stud Construction
(Anchor Clip Installation)



4
3 VERTICAL CROSS SECTION
2X Stud Construction
(Anchor Clip Installation)



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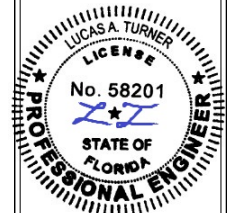
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ARCH TOP DOUBLE HUNG WEIGHT AND CHAIN WINDOW

HORIZONTAL AND VERTICAL
CROSS SECTIONS

Date: 05-07-14
Scale: None
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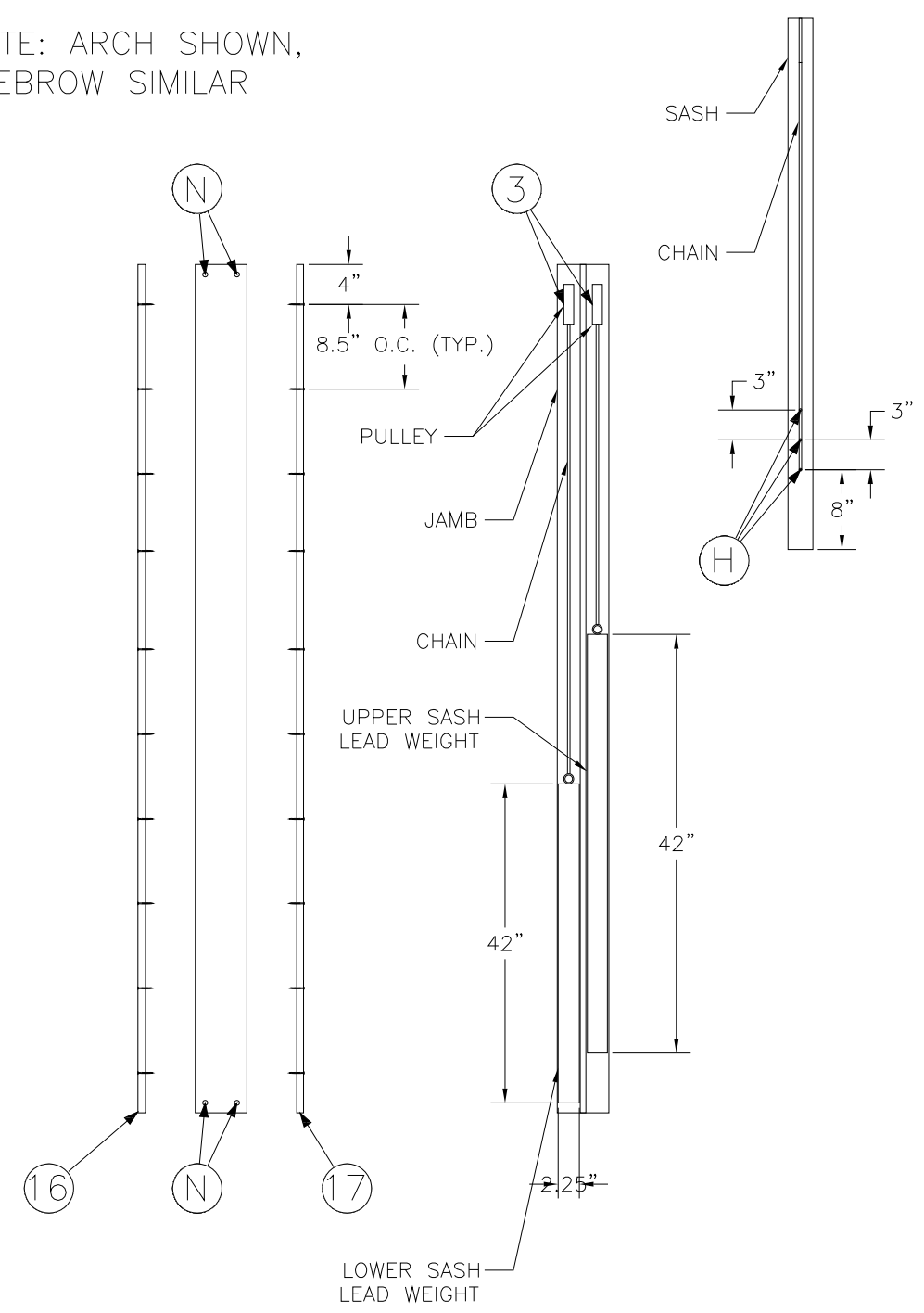
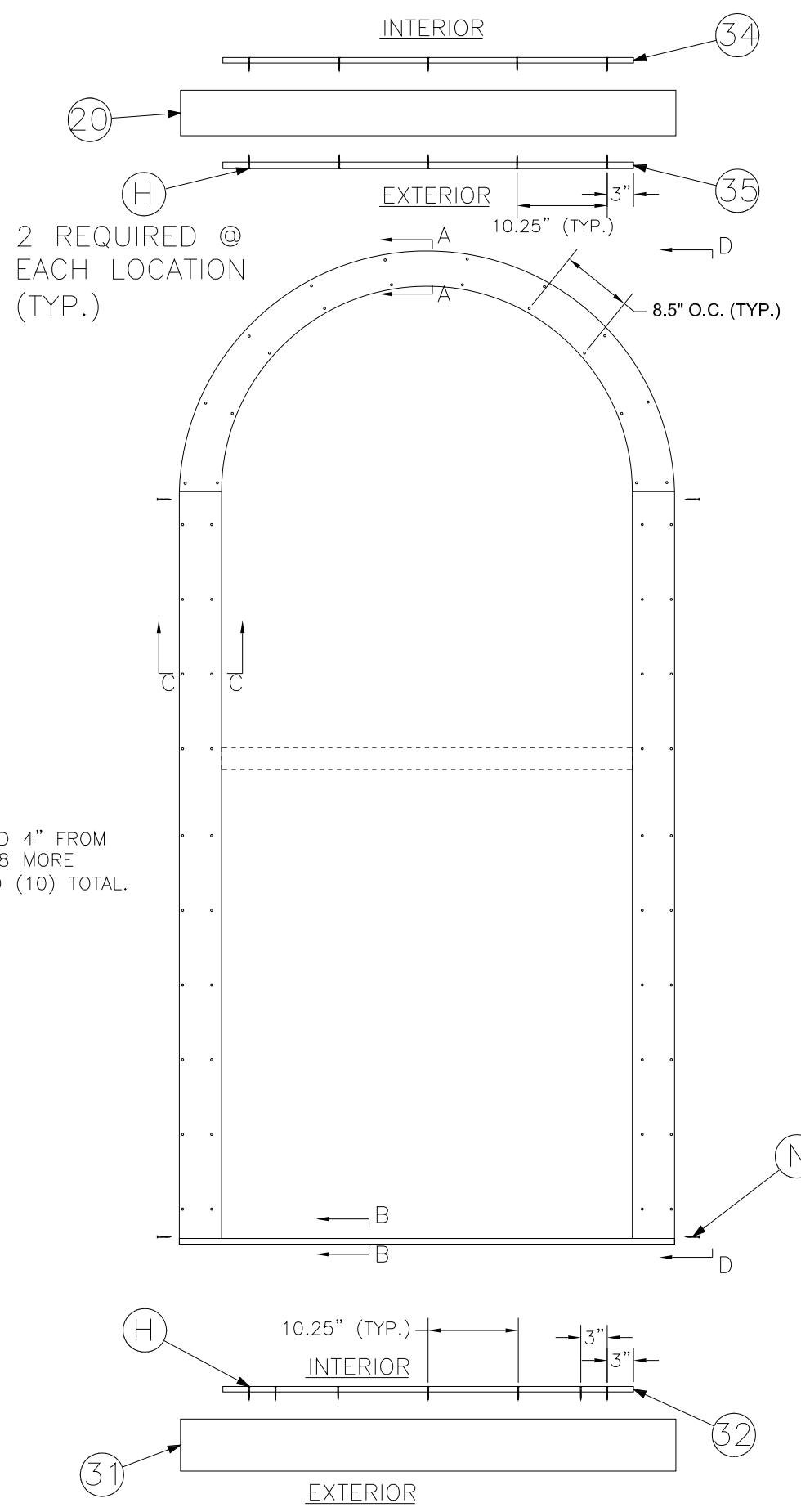
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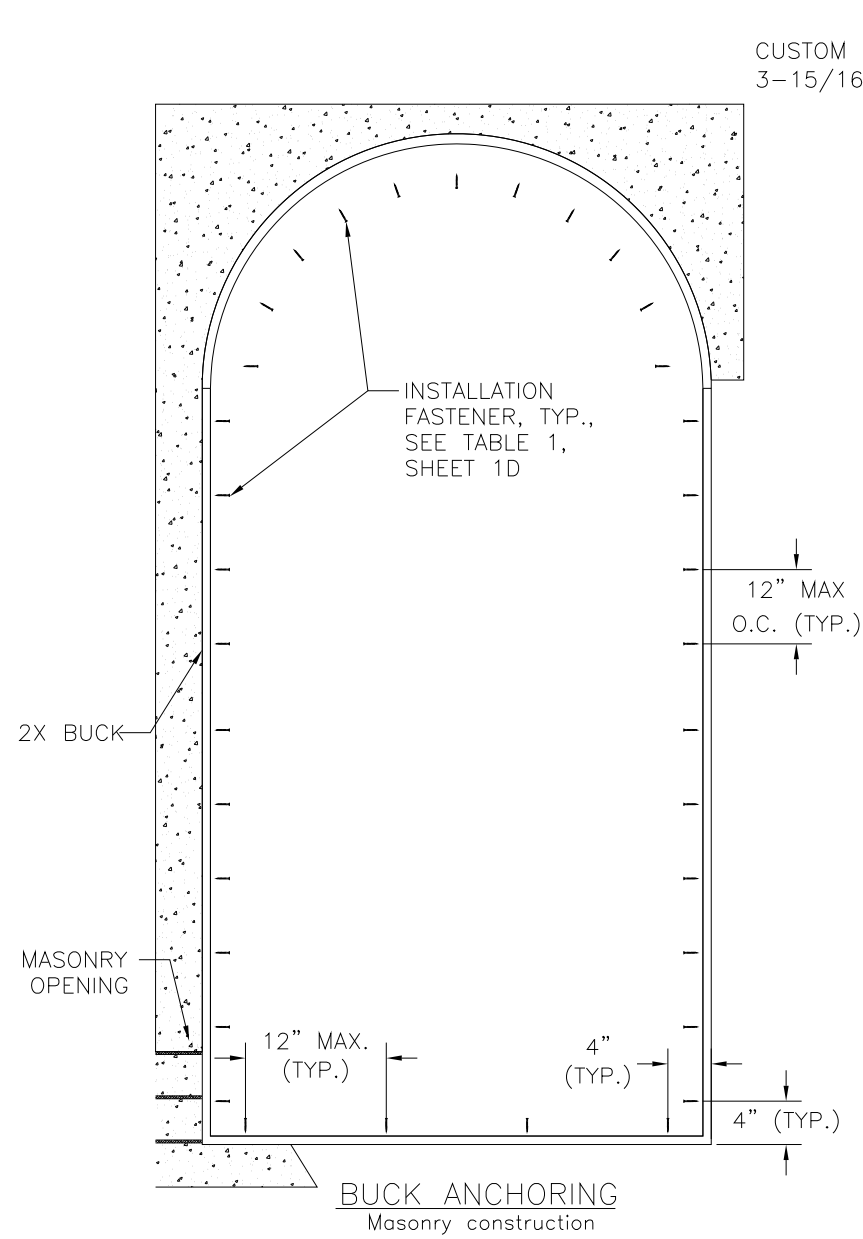
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Product: SERIES 4000
 ARCH TOP DOUBLE HUNG WEIGHT AND CHAIN WINDOW

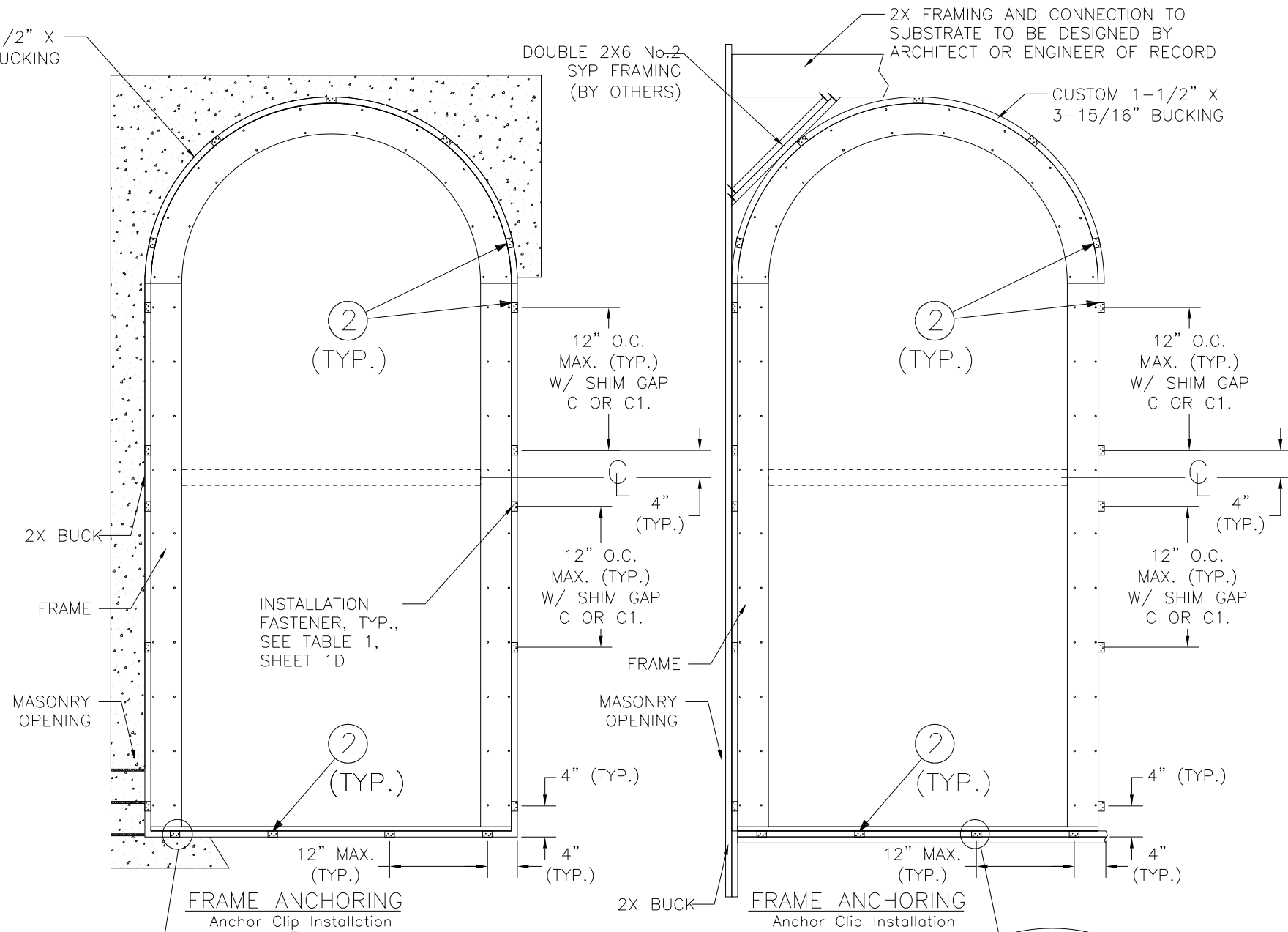
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BUCK ANCHORING
Masonry construction

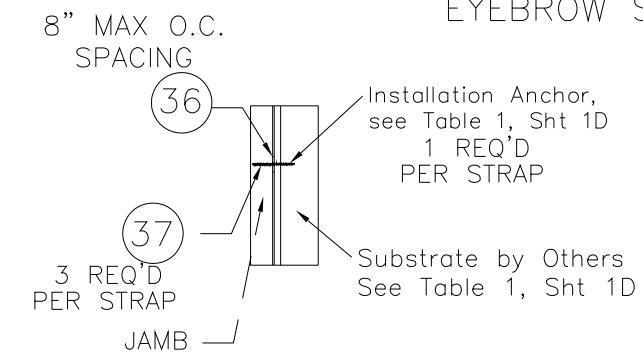


FRAME ANCHORING
Anchor Clip Installation

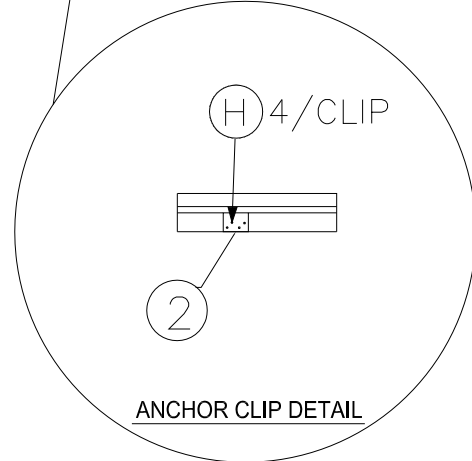
FRAME ANCHORING
Anchor Clip Installation

NOTE: ARCH SHOWN,
EYEBROW SIMILAR

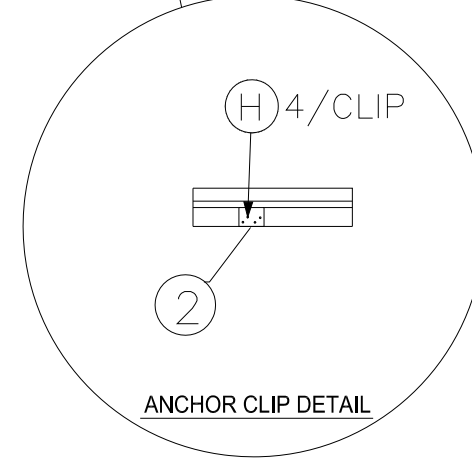
NOTE: ARCH SHOWN,
EYEBROW SIMILAR



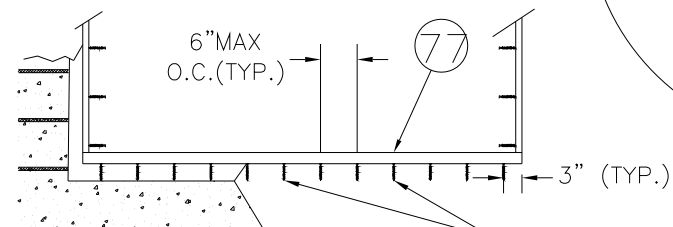
ALTERNATE STEEL STRAP ANCHORING



ANCHOR CLIP DETAIL

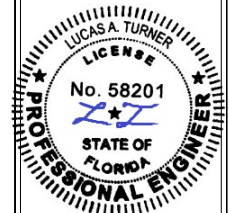


ANCHOR CLIP DETAIL



ALTERNATE ALUMINUM SILL ANCHORING

INSTALLATION
FASTENER, TYP.,
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DOUBLE HUNG WEIGHT AND CHAIN WINDOW

BUCK AND FRAME ANCHORING

Product:
SERIES 4000
ARCH TOP DOUBLE HUNG WEIGHT AND CHAIN WINDOW

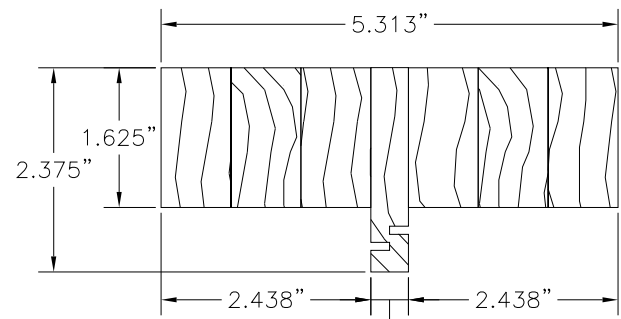
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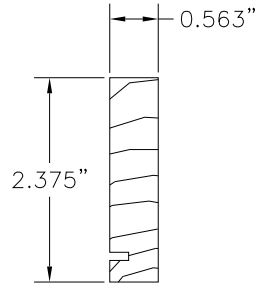
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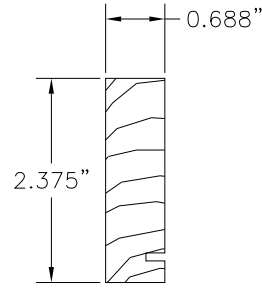
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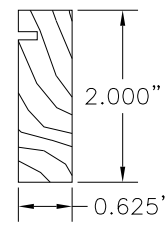
20 FRAME HEADER



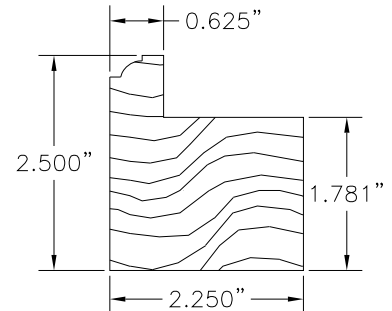
34 HEADER INTERIOR SASH STOP



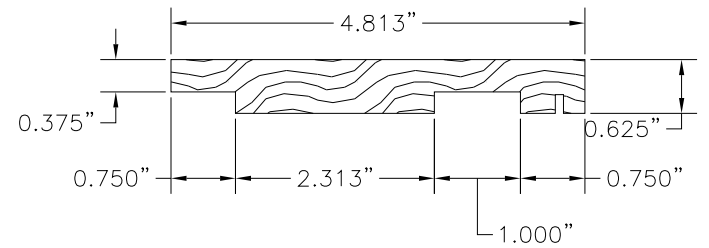
35 HEADER EXTERIOR SASH STOP



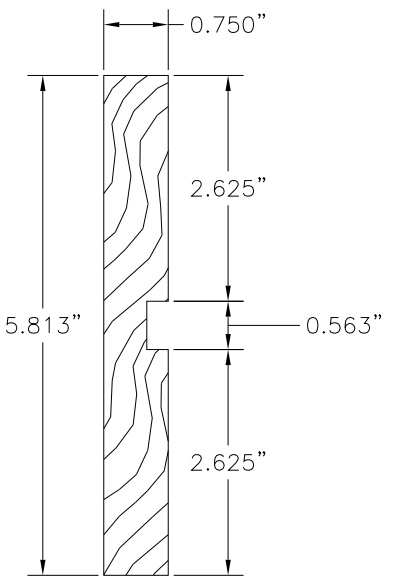
32 SILL EXTENDER



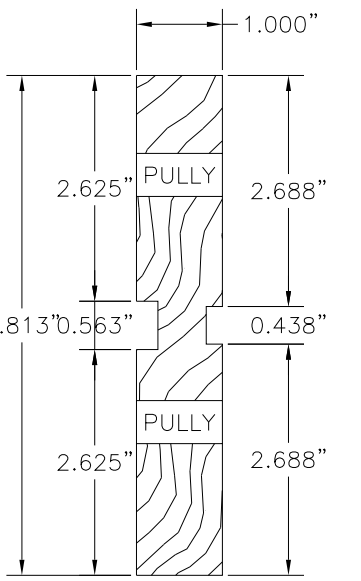
22 TOP SASH BOTTOM RAIL



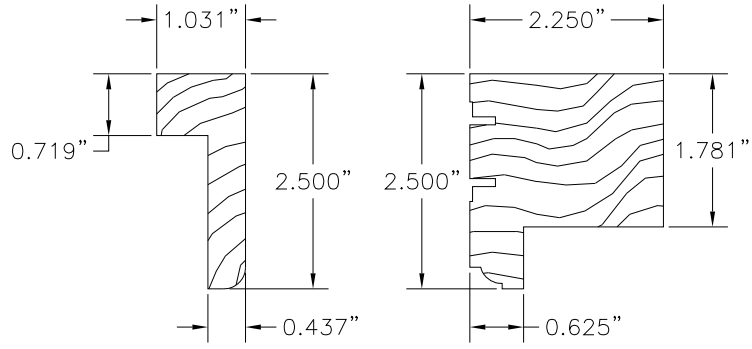
16 JAMB INTERIOR SASH STOP



18 JAMB EXTERIOR

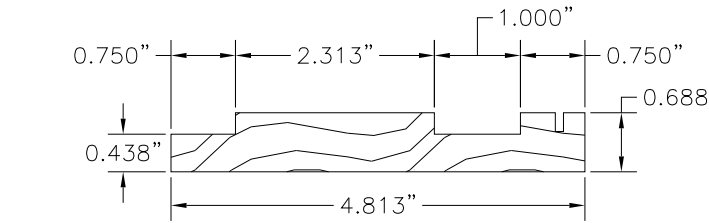


19 JAMB INTERIOR

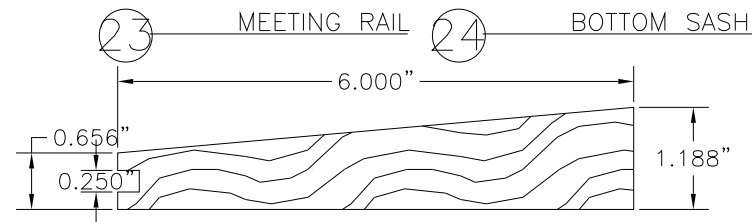


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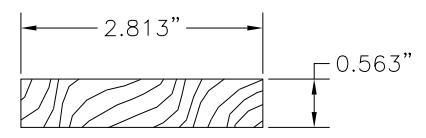
24 BOTTOM SASH TOP RAIL



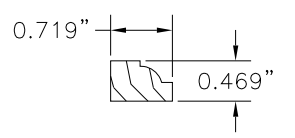
17 JAMB EXTERIOR SASH STOP



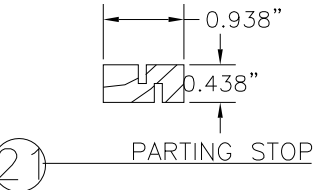
31 SILL



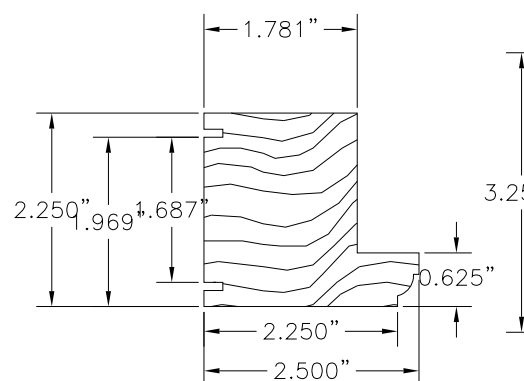
15 JAMB CONNECTOR



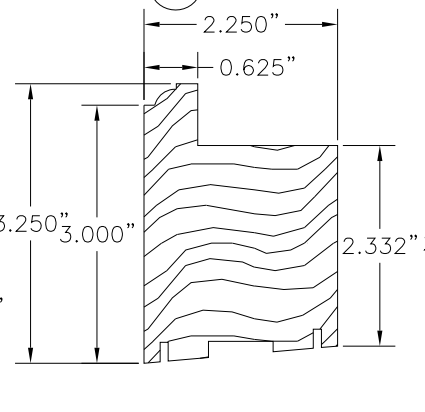
14 GLAZING STOP



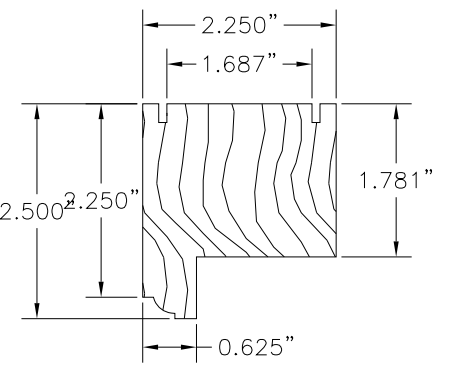
21 PARTING STOP



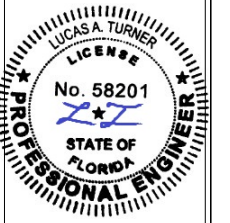
25 SASH TILE



26 BOTTOM SASH BOTTOM RAIL



27 TOP SASH TOP RAIL



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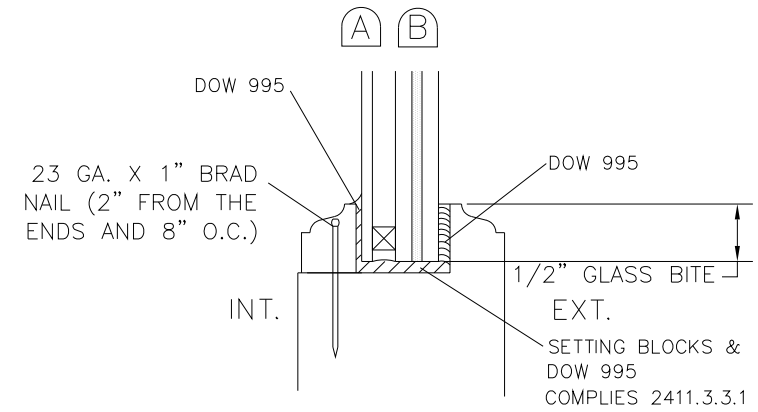
Product: SERIES 4000
ARCH TOP DOUBLE HUNG WEIGHT AND CHAIN WINDOW
Date: 05-07-14
Scale: None
Drawn: JDS

Dwg: DH-ARWC
FL34941.1
Sheet No.
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BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG>=0.55)	WOOD
B	2X BUCK (SG>=0.55)	WOOD
C	1/2" MAX.SHIM SPACE	-
C1	1/4" MAX.SHIM SPACE	-
E	SOLID CONCRETE CONFORMING TO ACI 301 OR CMU BLOCK CONFORMING TO ASTM C90 (SEE TABLE 1, SHT 1)	MASONRY
G	23GA X 1" BRAD	STEEL
H	#8 X 1-1/2" PFH WOOD SCREW	STEEL
N	#8 2-1/2" PFH WOOD SCREW	STEEL
P	#10 X 1-1/2" PFH WOOD SCREW	STEEL
2	METAL L-BRACKET A23Z BY SIMPSON STRONG-TIE	STEEL
3	SASH PULLEY (PHELPS MODEL SP250BBRE)	BRASS
6	WEATHERSTRIP QEZD100 BY SCHLEGEL	FOAM
7	WEATHERSTRIP QEZD260 BY SCHLEGEL	FOAM
11	#8 X 3/4" LATH SCREWS	STEEL
12	SASH LOCK (PHELPS MODEL LK381)	BRASS
14	GLAZING STOP	WOOD
15	JAMB CONNECTOR	WOOD
16	JAMB INTERIOR SASH STOP	WOOD
17	JAMB EXTERIOR SASH STOP	WOOD
18	JAMB EXTERIOR	WOOD
19	JAMB INTERIOR	WOOD
20	FRAME HEADER	WOOD
21	PARTING STOP	WOOD
22	TOP SASH BOTTOM RAIL	WOOD
23	MEETING RAIL	WOOD
24	BOTTOM SASH TOP RAIL	WOOD
25	SASH STILE	WOOD
26	BOTTOM SASH BOTTOM RAIL	WOOD
27	TOP SASH TOP RAIL	WOOD
31	SILL	WOOD
32	SILL EXTENDER	WOOD
34	HEADER INTERIOR SASH STOP	WOOD
35	HEADER EXTERIOR SASH STOP	WOOD
36	STEEL ANCHOR STRAP 1-1/4" X 4" X 1/8"	STEEL
37	#10 X 3/4" PFH WOOD SCREW	STEEL
77	ALUM. SILL ANCHOR 1.5X1.5X.125 ANGLE, FULL LENGTH	ALUMINIUM

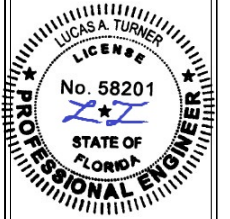
NOTE: ALL WINDOW FRAME WOOD IS SG=0.55 MIN. (SAPELE OR SIMILAR)



GLASS TYPES AND STRUCTURE

- A** 15/16" (NOM.) LAMINATED INSULATING GLASS
 3/16" ANNEALED OR TEMPERED INT. LITE /
 1/4" AIR SPACE WITH ALUMINUM SPACER /
 3/16" ANNEALED
 .090" INTERLAYER: SAFLEX HP BY
 EASTMAN CHEMICAL COMPANY /
 3/16" ANNEALED

- B** 15/16" (NOM.) LAMINATED INSULATING GLASS
 3/16" ANNEALED OR TEMPERED INT. LITE /
 1/4" AIR SPACE WITH ALUMINUM SPACER /
 3/16" ANNEALED
 .090" INTERLAYER: SENTRYGLAS BY KURARAY /
 3/16" ANNEALED



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BILL OF MATERIALS, GLAZING
 DETAILS & COMPONENTS

Dwg: DH-ARWC
 FL34941.1

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