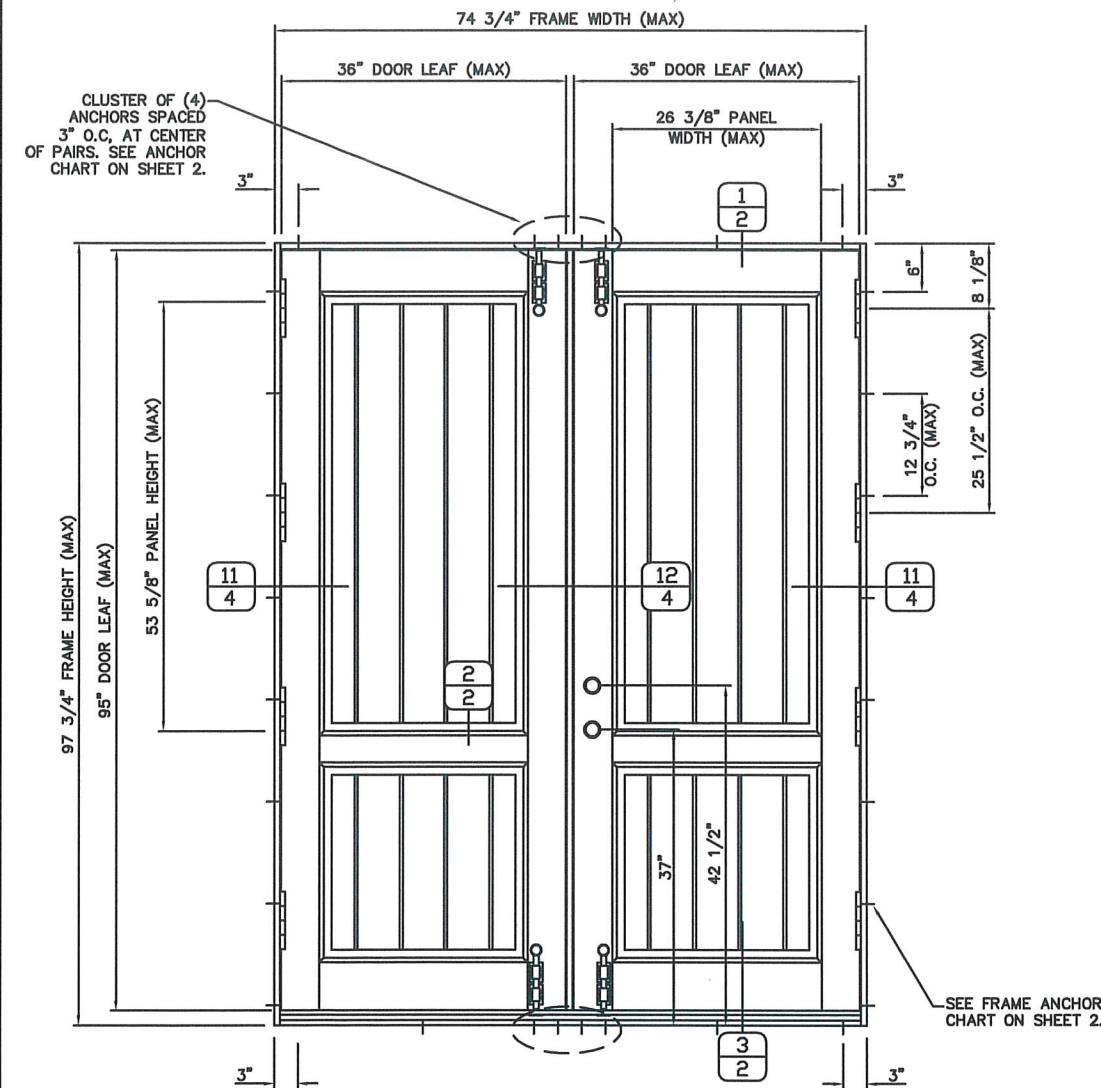
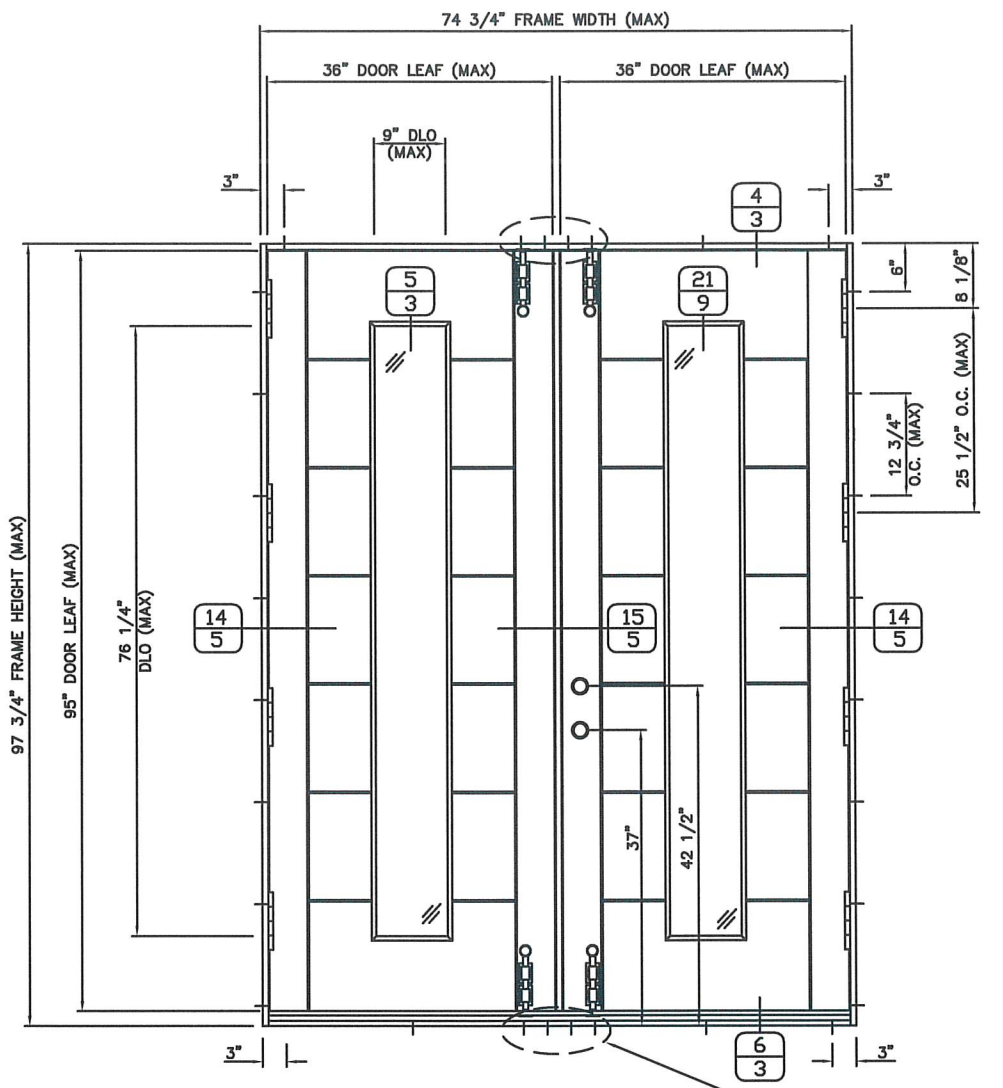




FLAT PANEL DOUBLE DOOR
WITH V-GROOVES

MAXIMUM DESIGN
PRESSURE
+/- 65.16 PSF



CONTEMPORARY PANEL DOOR
WITH OPTIONAL VERTICAL LITE

MAXIMUM DESIGN
PRESSURE
+/- 45.11 PSF

CORNER CONSTRUCTION:

FRAME CORNERS: HORIZONTAL FRAME ENDS ARE COPED AND BUTTED TO VERTICAL FRAME JAMBS WITH JOINT FULLY GLUED WITH WOOD GLUE AND FASTENED WITH (4) #10 x 2 1/2" BUGLE-HEAD SCREWS.

PANEL CORNERS: HORIZONTAL RAILS ARE COPED AND BUTTED TO VERTICAL STILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (5) 5/8" x 4 1/2" DOWELS AT BOTTOM RAIL AND (3) 5/8" x 4 1/2" DOWELS AT TOP RAIL.

MID-RAIL INTERSECTIONS: THE HORIZONTAL MID-RAILS ARE COPED AND BUTTED TO VERTICAL STILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (3) 5/8" x 4 1/2" DOWELS.

ASTRAGAL: ASTRAGAL IS FASTENED TO INACTIVE DOOR LEAF WITH 16 Ga. FINISH NAILS, 12" O.C., WITH A CLUSTER OF (6) NAILS AT FLUSH BOLTS.

HARDWARE SCHEDULE:

LOCKS: KWIKSET 800CE OR SCHLAGE F58 LOCKSET. DEADBOLT AND DEADLATCH ARE FASTENED TO ACTIVE DOOR LOCK STILE WITH (2) #8 x 5/8" WOOD SCREWS.

STRIKE PLATES: THE DEADBOLT AND DEADLATCH STRIKE PLATES ARE ATTACHED TO THE ASTRAGAL WITH (2) #8 x 2" WOOD SCREWS.

FLUSH BOLTS: CAL-ROYAL ULFB634 FLUSH BOLT. THE FLUSH BOLTS ARE ATTACHED AT TOP AND BOTTOM OF THE ASTRAGAL WITH (4) #8 x 3/4" WOOD SCREWS. A STRIKE PLATE IS ATTACHED AT THE HEAD WITH (2) #8 x 3" WOOD SCREWS.

SURFACE BOLTS: DELTANA 12SB26D SURFACE BOLT AT TOP AND BOTTOM OF BOTH ACTIVE AND INACTIVE DOOR LEAF. EACH SURFACE BOLT IS CAPTURED BY (2) SLEEVES FASTENED WITH (4) #8 x 1 1/4" WOOD SCREWS. STRIKE PLATES ARE ATTACHED AT THE HEAD WITH (3) #6 x 2" WOOD SCREWS.

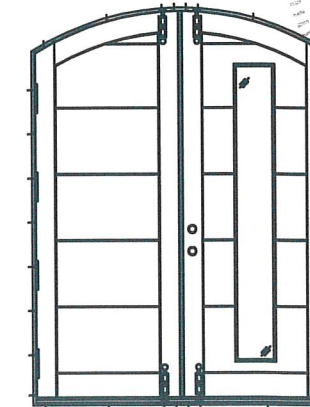
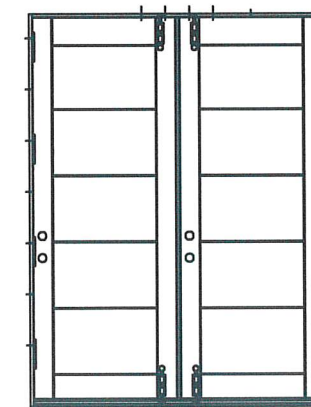
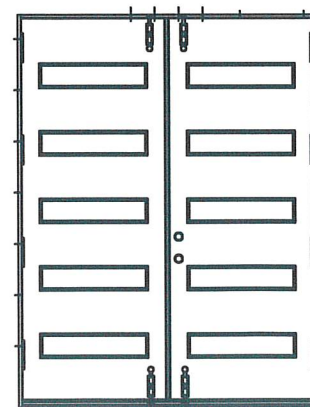
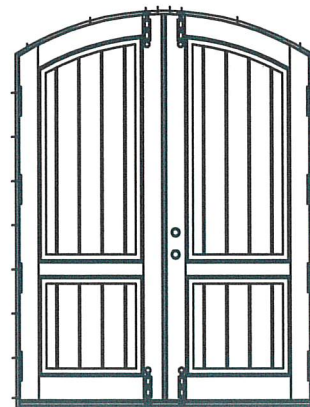
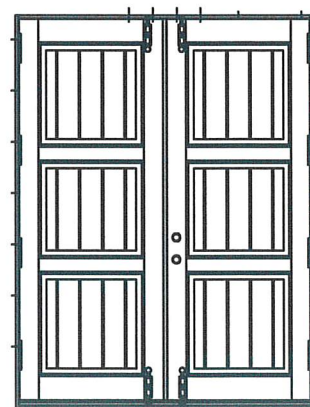
HINGES: SGS 158 SERIES 5 BARREL BUTT HINGE, (4) PER LEAF. HINGES ARE FASTENED TO DOOR WITH (2) #10 x 1" AND (2) #10 x 3" WOOD SCREWS, AND FASTENED TO THE FRAME WITH (2) #10 x 1" AND (2) #10x2 1/2" WOOD SCREWS.

SWING: DOORS MAY BE INSTALLED AS INSWING OR OUTSWING.

GENERAL NOTES:

1. THIS SYSTEM HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE, FOR USE OUTSIDE THE HVHZ. THIS SYSTEM IS NOT IMPACT RESISTANT, SHUTTERS ARE REQUIRED IN WINDBORNE DEBRIS REGIONS.
2. DESIGN LOADS MUST BE CALCULATED BY A PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT. THE PROJECT PRESSURE CANNOT EXCEED THE DESIGN PRESSURE LISTED FOR EACH ELEVATION.
3. THIS SYSTEM IS NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED. THE SYSTEM MUST BE PROTECTED BY AN OVERHANG THAT PROJECTS OUT FARTHER THAN ITS HEIGHT FROM THE GROUND.
4. ALL ANCHORS SECURING THE SYSTEM TO PRESSURE TREATED WOOD SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE CHEMICALS IN THE WOOD.
5. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT GLAVANIC REACTIONS IN ACCORDANCE WITH FBC CHAPTERS 20 AND 23.
6. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. Cd=1.6 WAS USED FOR WOOD SCREWS ONLY.

OTHER APPROVED SHAPES:



OTHER APPROVED SHAPES:

DOUBLE FIBERGLASS PANEL DOOR (NON-IMPACT)

HOELSCHER WEATHERSTRIP MFG, INC.

10111 HOUSTON OAKS DRIVE

HOUSTON, TX 77064

PH: (713) 869-6466

FAX: (713) 861-2909

www.hoelscherweatherstrip.com

DWG: HWMF-3
SHEET: 1/6

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COAH# 27194)

15211 97TH ROAD N
WEST PALM BEACH, FL 33412

PH/FAX: (561) 225-1962

STATE OF FLORIDA
FEB 14 2025
PROFESSIONAL ENGINEER

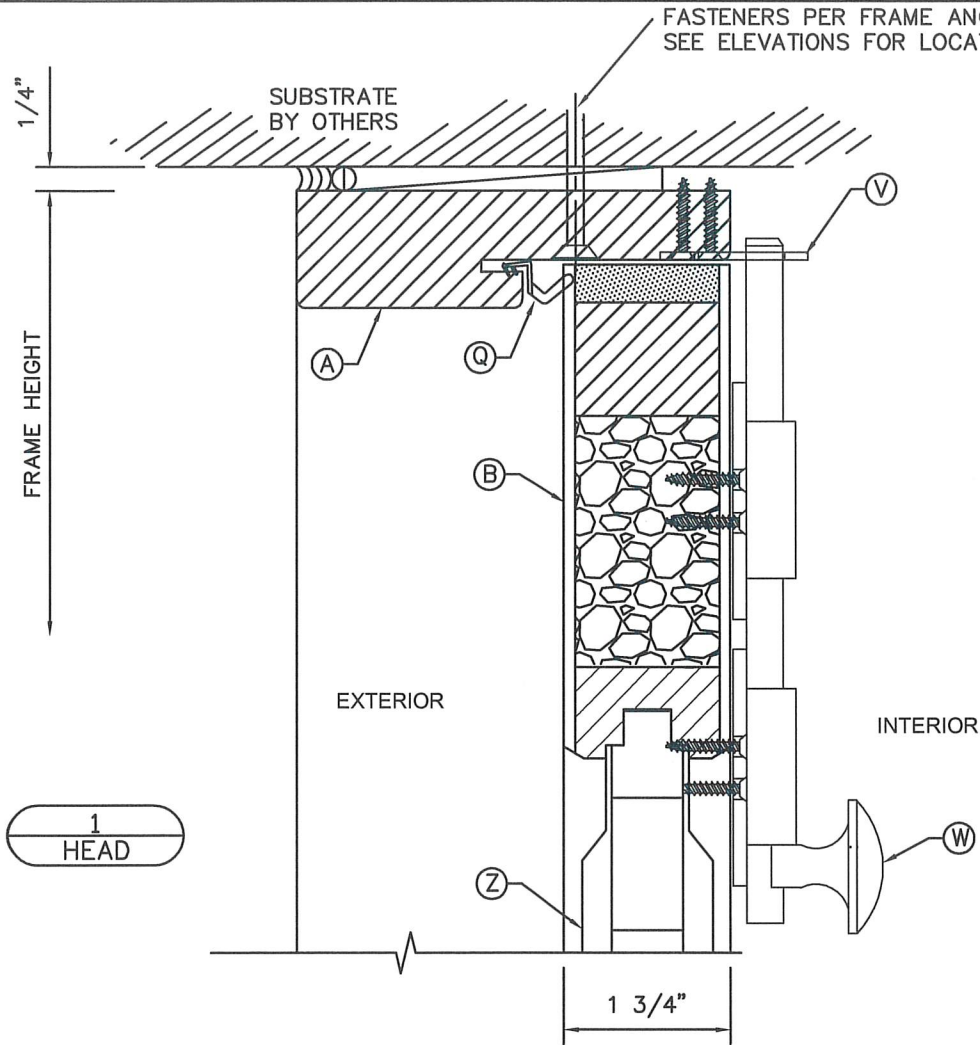
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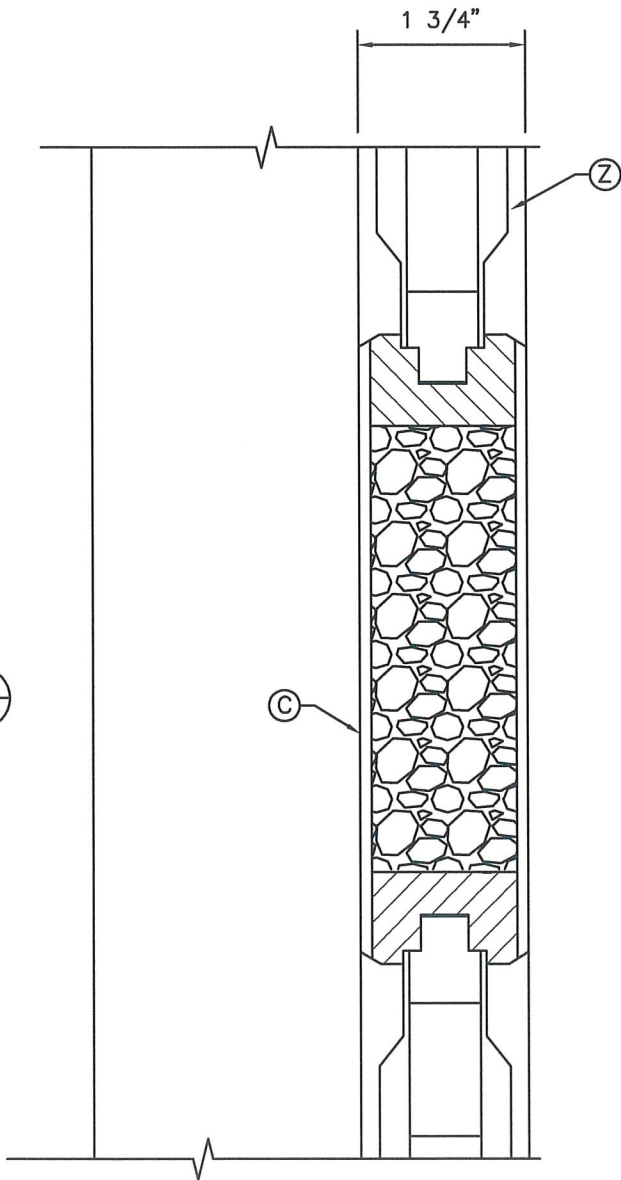
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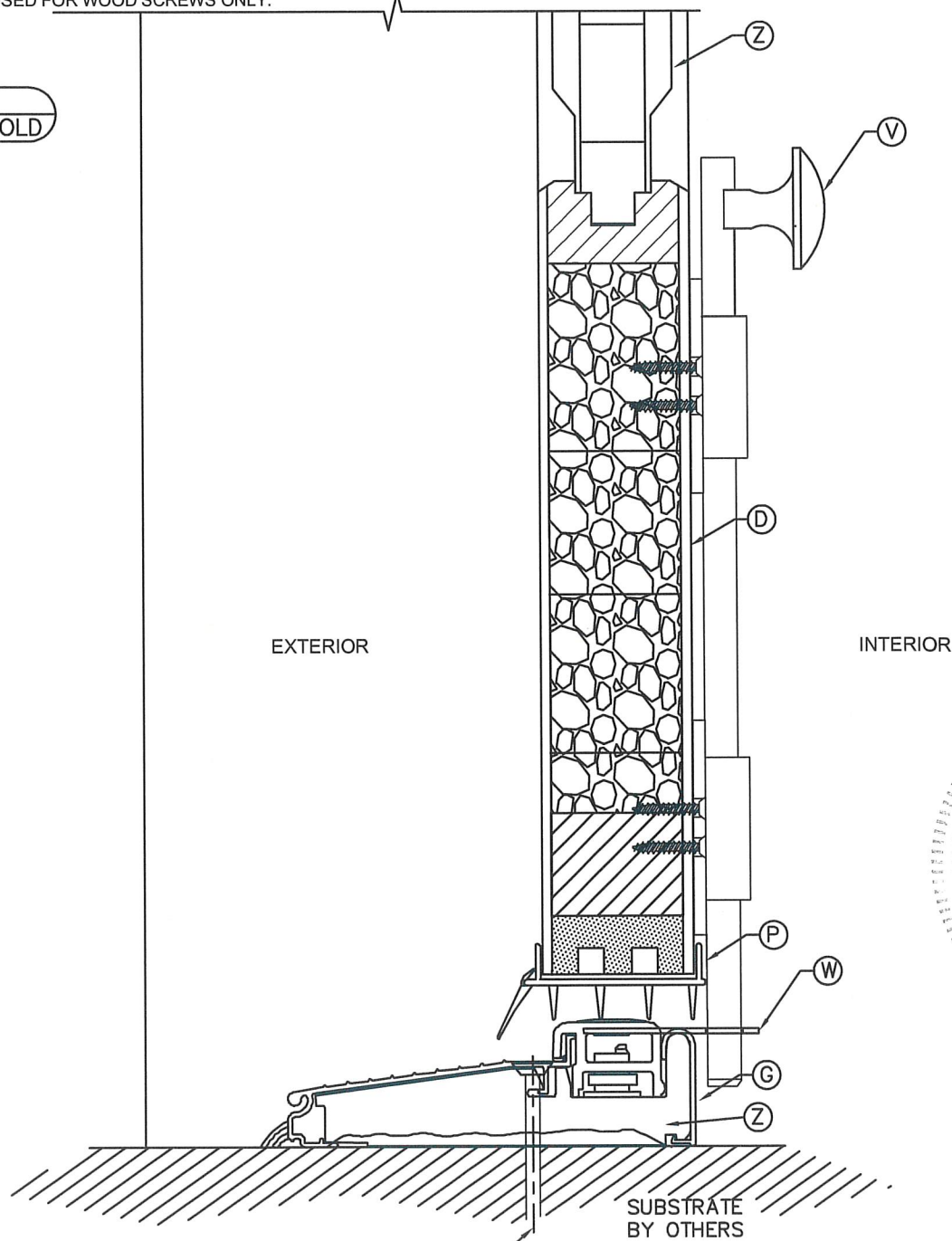
PRINTS ISSUED FOR



2
MID-RAIL



5
THRESHOLD



FRAME ANCHOR CHART

SUBSTRATE	FASTENER TYPE	EMBEDMENT (MIN)	EDGE DISTANCE (MIN)
WOOD - 2x MIN. (S.G.=0.55, E=1.3x10 ⁶ psi (MIN))	#10 x 2 1/2" WOOD SCREW	1 3/8"	3/4"
CONCRETE (3000 psi MIN)	3/16" DIA. TAPCON (DIRECT OR THRU 1x WOOD BUCK)	1 1/4"	1 7/8"
GROUT-FILLED CMU (ASTM C90 MIN)	3/16" DIA. TAPCON (DIRECT OR THRU 1x WOOD BUCK)	1 1/4"	2"
STEEL/ALUMINUM (1/8" MIN. THICKNESS)	#10 F-TYPE THREAD CUTTING SCREW	FULL	1/2"

FASTENER NOTES:

1. FASTENERS AT HINGE LOCATIONS ARE ANCHORED THRU THE HINGE, REPLACING ONE OF THE STANDARD HINGE SCREWS.
2. ALL ANCHORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE CHEMICALS IN THE WOOD.
3. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT GALVANIC REACTIONS IN ACCORDANCE WITH FBC CHAPTERS 20 AND 23.
4. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. Cd=1.6 WAS USED FOR WOOD SCREWS ONLY.

DOUBLE FIBERGLASS PANEL DOOR (NON-IMPACT)

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10111 HOUSTON OAKS DRIVE
HOUSTON, TX 77064

PH: (713) 869-6466

FAX: (713) 861-2909

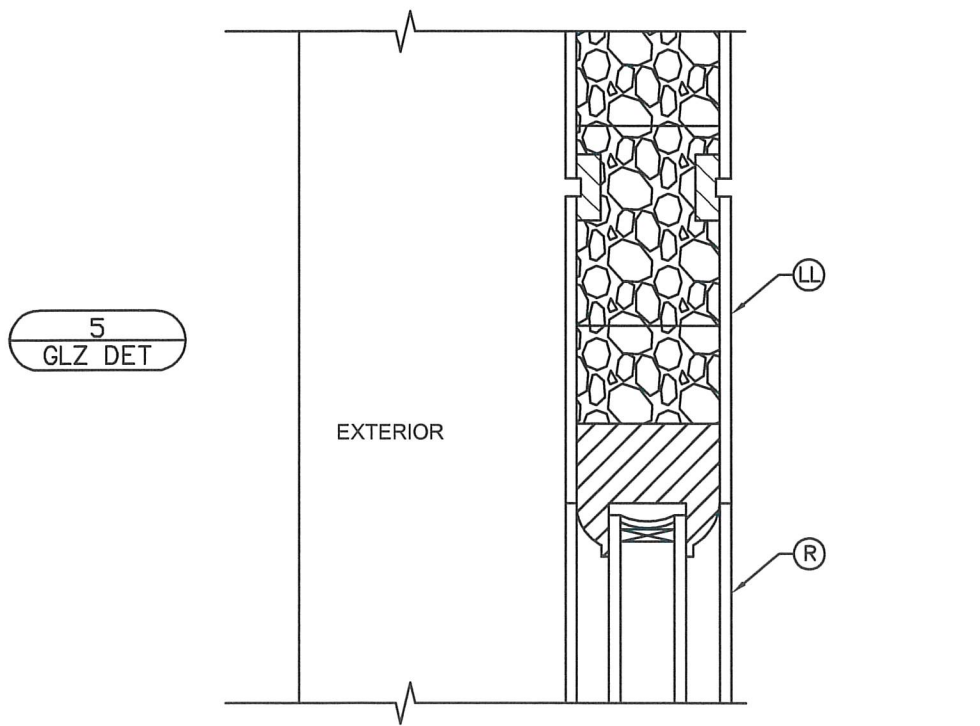
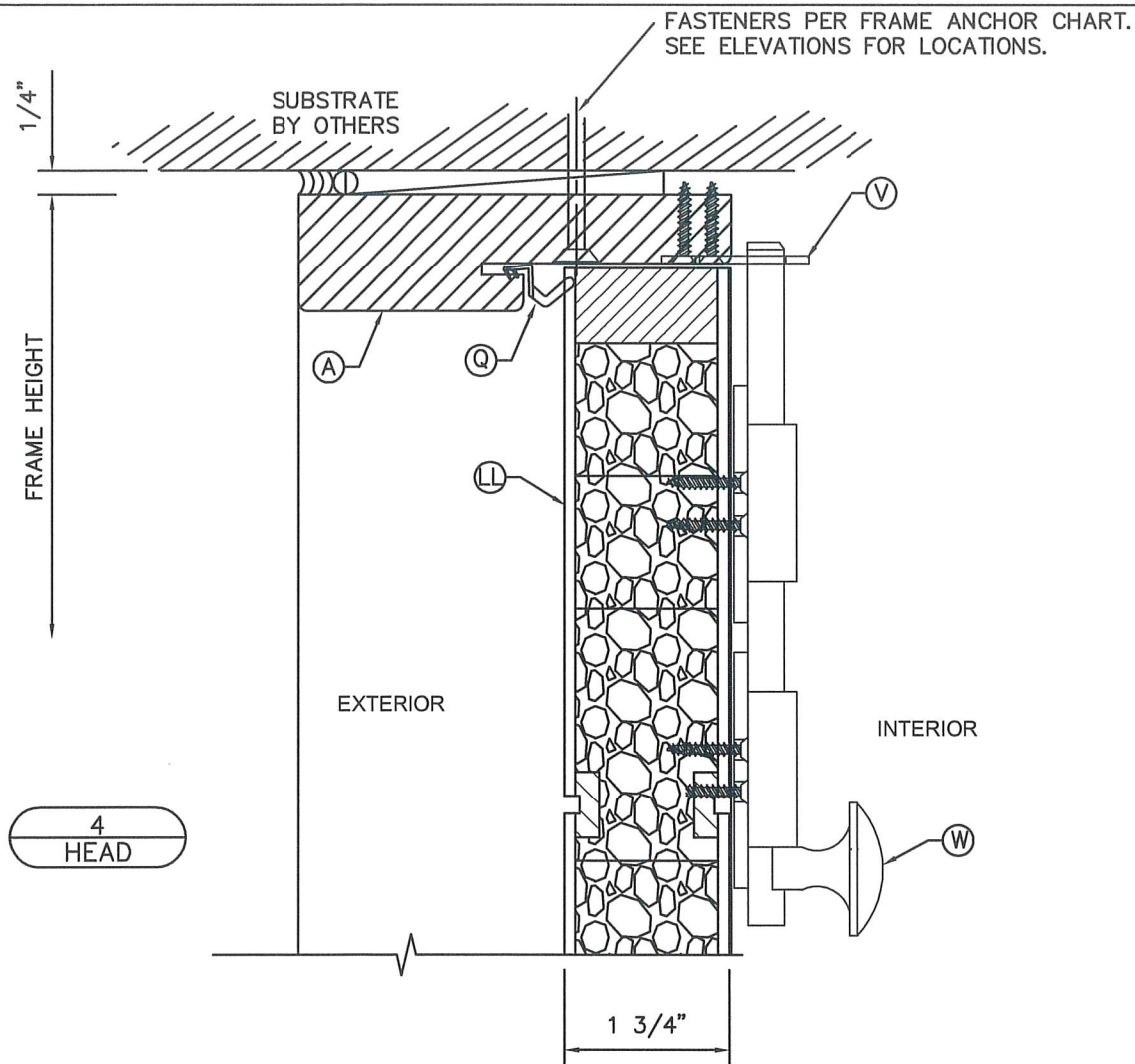
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FL PE# 62354

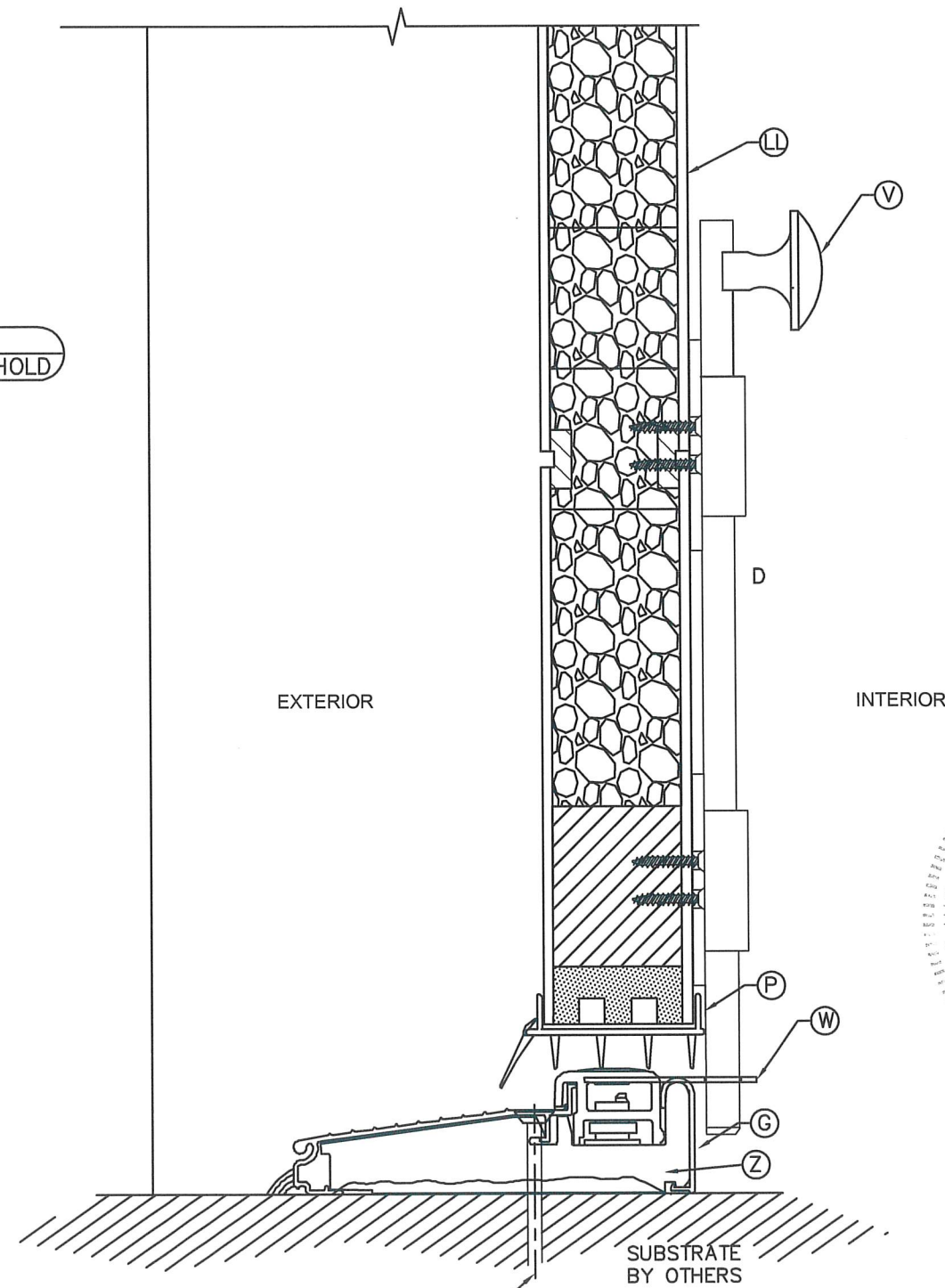
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
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PH/FAX: (561) 225-1982

DWG: HWMF-3
SHEET: 2/6

STATE OF
FLORIDA
FEB 14 2025



6
THRESHOLD



FASTENERS PER FRAME ANCHOR CHART.
SEE ELEVATIONS FOR LOCATIONS.

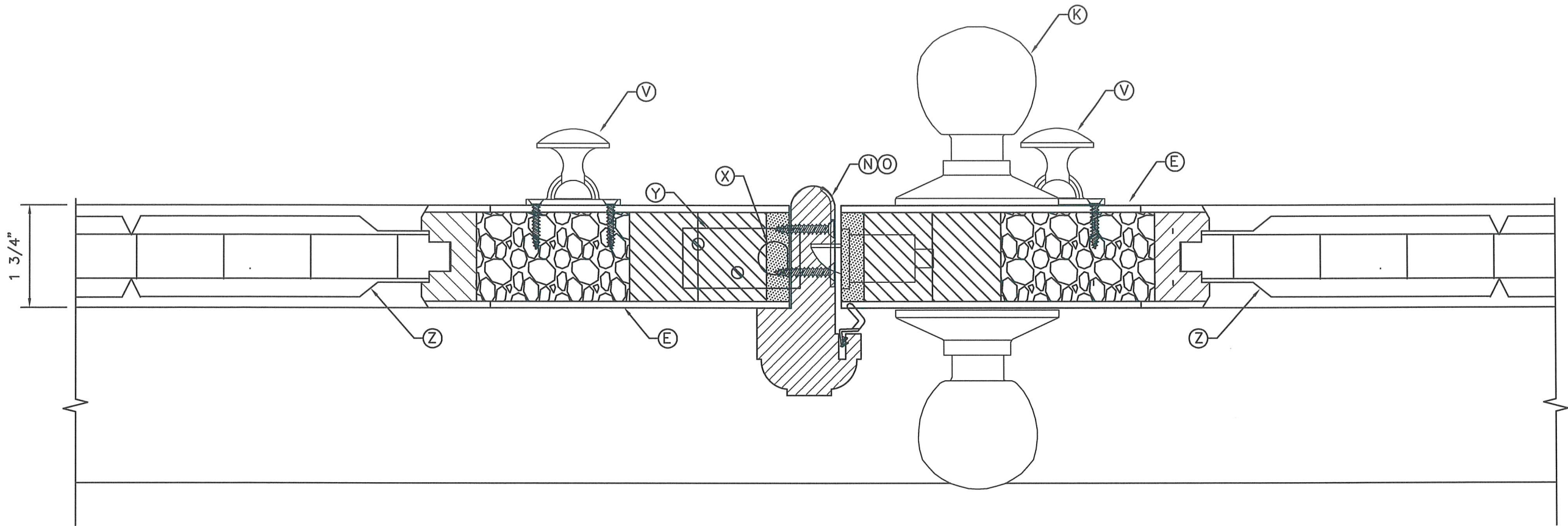
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PH/FAX: (561) 225-1982
STATE OF FLORIDA
FEB 14 2025
PROFESSIONAL ENGINEER

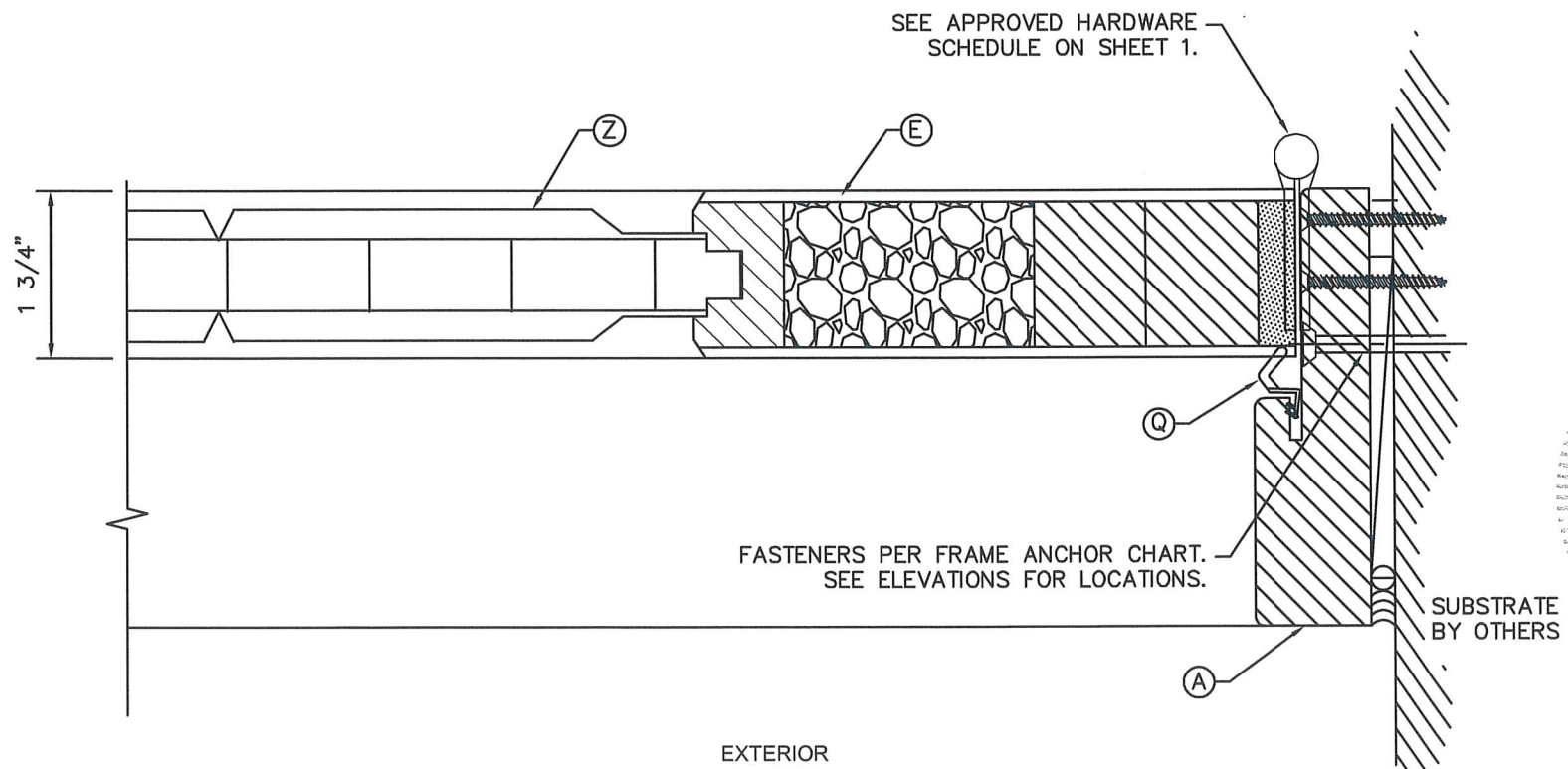
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SHEET: 3/6

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12
ASTRAGAL

INTERIOR



FASTENERS PER FRAME ANCHOR CHART.
SEE ELEVATIONS FOR LOCATIONS.

EXTERIOR

11
HINGE JAMB

FRAME WIDTH

1/4"

DOUBLE FIBERGLASS PANEL DOOR (NON-IMPACT)

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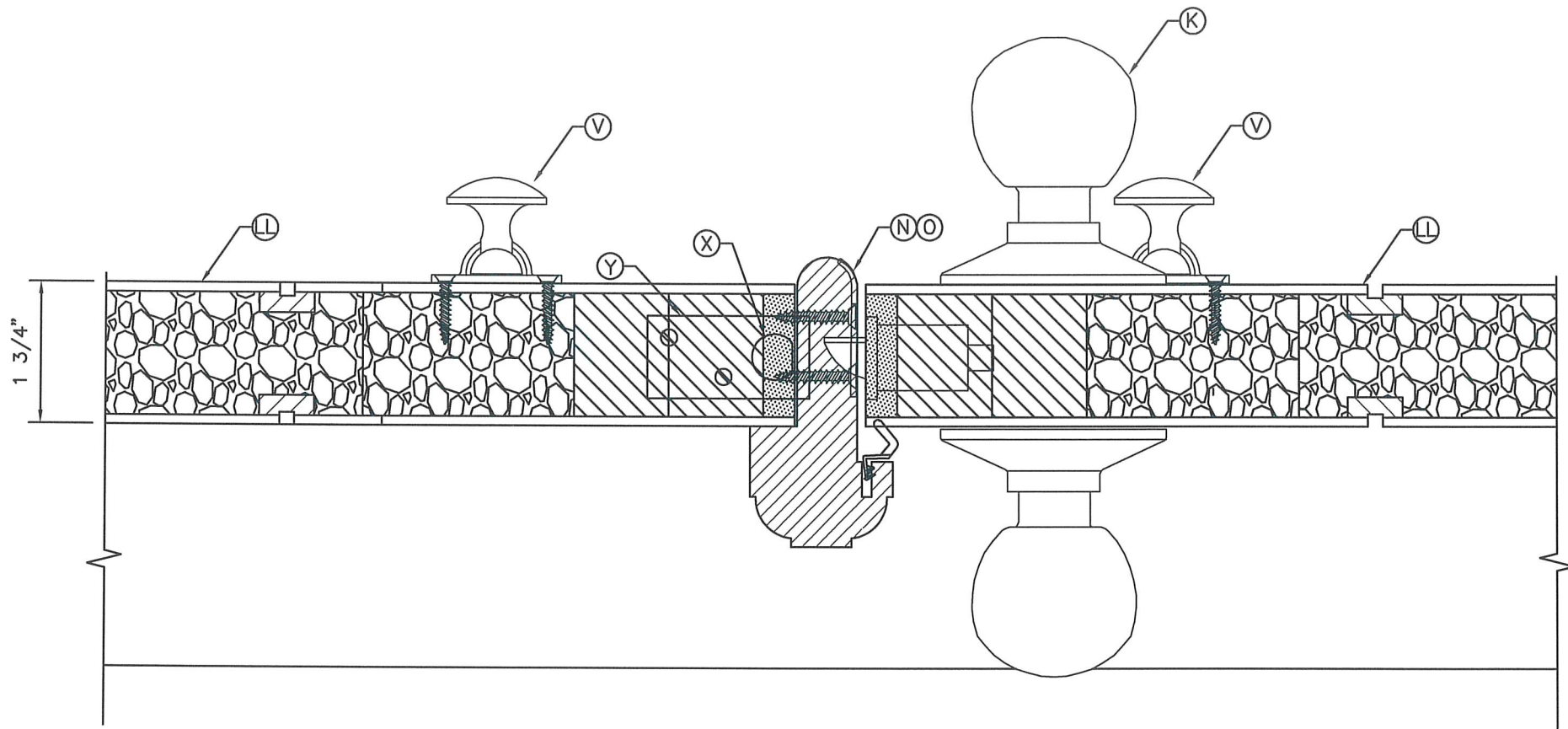
DWG: HWMF-3
SHEET: 4/6

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(COA# 27194)
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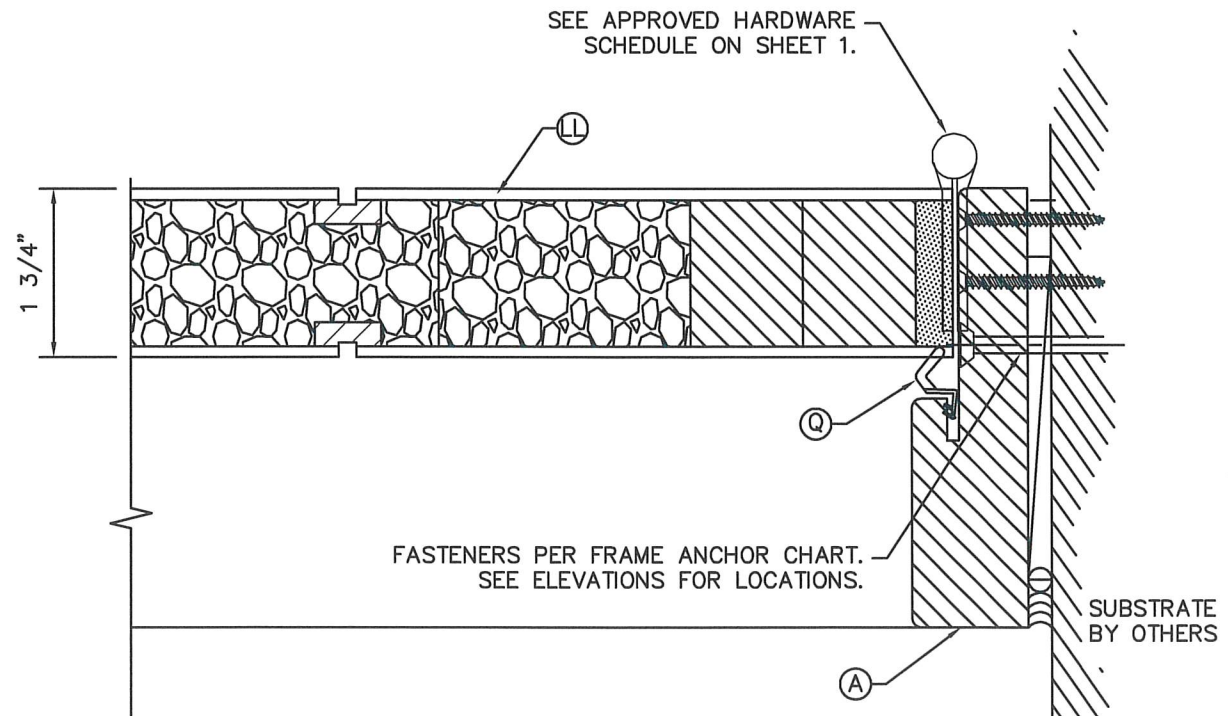


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14
ASTRAGAL

INTERIOR



FASTENERS PER FRAME ANCHOR CHART.
SEE ELEVATIONS FOR LOCATIONS.

SUBSTRATE
BY OTHERS

EXTERIOR

FRAME WIDTH

1/4"

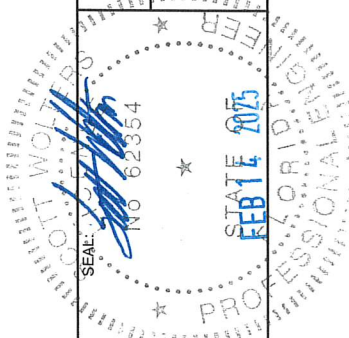
15
HINGE JAMB

DOUBLE FIBERGLASS PANEL DOOR (NON-IMPACT)

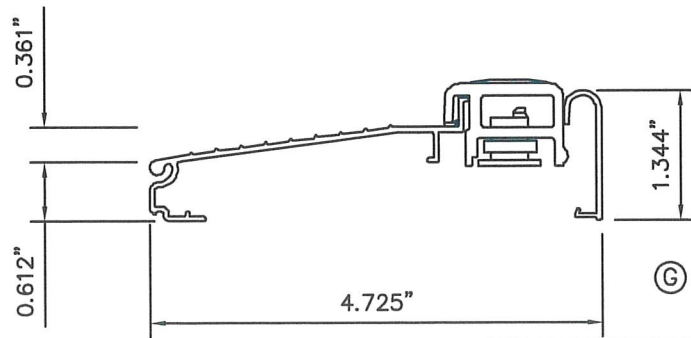
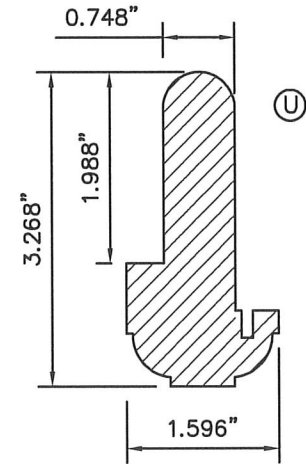
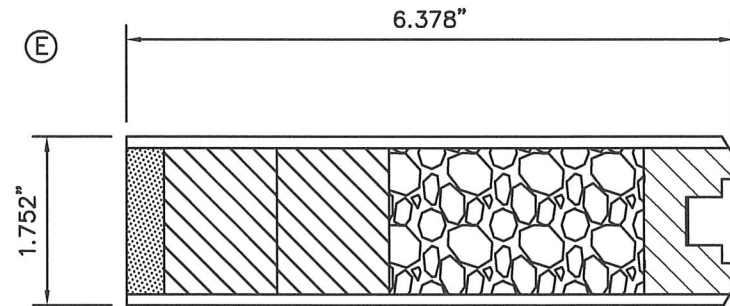
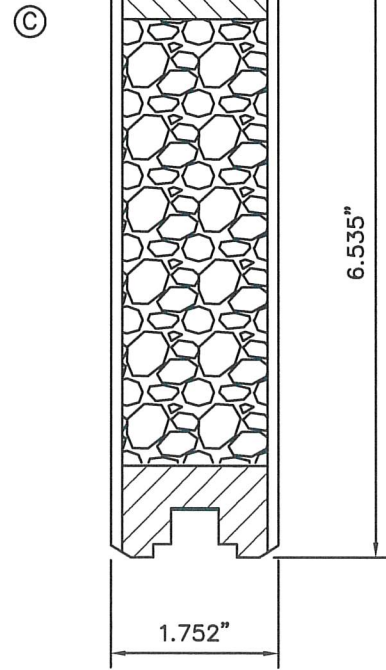
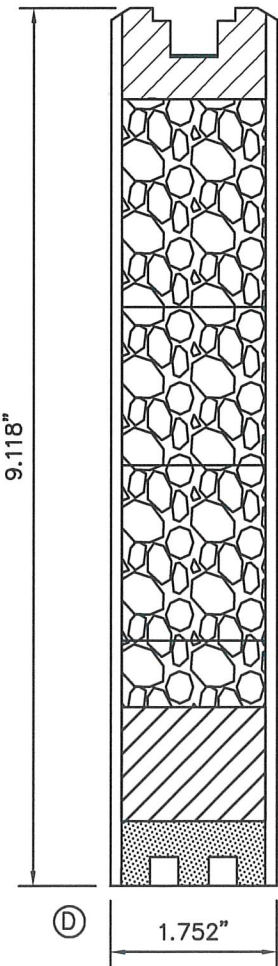
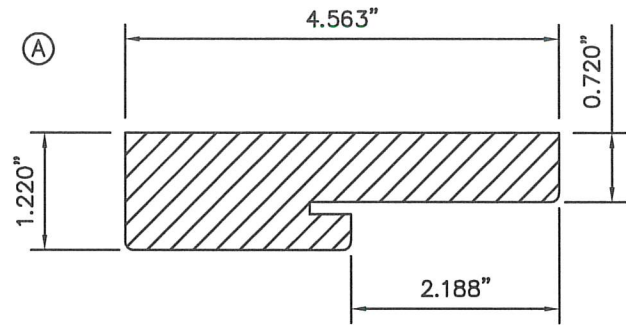
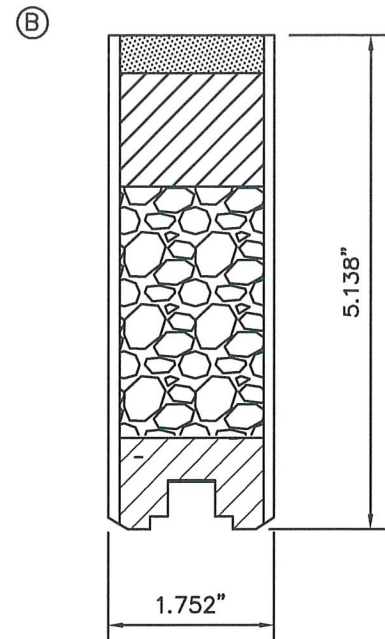
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BILL OF MATERIALS				
MARK	PART DESCRIPTION	MATERIAL	MANUFACTURER	NOTES
A	FRAME HEAD/JAMB	MAHOGANY OR KNOTTY ALDER	HOELSCHER	S.G.=0.47, E=1.38x10 ⁶ psi (MIN)
B	TOP RAIL	FIBERGLASS COMPOSITE RAIL	HOELSCHER	SEE NOTES BELOW
C	MID-RAIL	FIBERGLASS COMPOSIT RAIL	HOELSCHER	SEE NOTES BELOW
D	BOTTOM RAIL	FIBERGLASS COMPOSITE RAIL	HOELSCHER	SEE NOTES BELOW
E	STILE	FIBERGLASS COMPOSITE STILE	HOELSCHER	SEE NOTES BELOW
G	THRESHOLD	ALUMINUM		
J	HINGE	STEEL	SGS HARDWARE	SEE HARDWARE SCHEDULE
K	LOCK	STEEL	SCHLAGE/KWIKSET	SEE HARDWARE SCHEDULE
L	SECURITY PLATE	STEEL	ENDURA	SEE HARDWARE SCHEDULE
N	LOCK STRIKE	STEEL	SCHLAGE/KWIKSET	SEE HARDWARE SCHEDULE
O	LATCH STRIKE	STEEL	SCHLAGE/KWIKSET	SEE HARDWARE SCHEDULE
P	BOTTOM DOOR WEATHERING	NEOPRENE		
Q	WEATHERSTRIP	NEOPRENE	MD PLASTIC	
R	13/16" INSULATED GLASS	1/8" TEMPERED LITES WITH BUTYL SPACER	CARDINAL IG	S.G.=0.47, E=1.38x10 ⁶ psi (MIN)
U	ASTRAGAL	MAHOGANY OR KNOTTY ALDER	HOELSCHER	
V	SURFACE BOLT	STEEL	DEL TANA	SEE HARDWARE SCHEDULE
W	SURF. BOLT STRIKE PLATE	STEEL	DEL TANA	SEE HARDWARE SCHEDULE
X	FLUSH BOLT	STEEL	CAL-ROYAL	SEE HARDWARE SCHEDULE
Y	FLUSH BOLT STRIKE PLATE	STEEL	CAL-ROYAL	SEE HARDWARE SCHEDULE
Z	RAISED FIBERGLASS PANEL	FIBERGLASS COMPOSITE PANEL	HOELSCHER	SEE NOTES BELOW
LL	FLUSH FIBERGLASS PANEL	FIBERGLASS COMPOSITE PANEL	HOELSCHER	SEE BITES BELOW

DOOR STILE AND RAIL CONSTRUCTION:

SKINS - 2mm FIBERGLASS SHEET MOLDING COMPOUND
(DENSITY = 118.6 lb/ft³ (±1.25))

SKINS ARE GLUED OVER:
CORE - POLYURETHANE (DENSITY = 2.5 lb/ft³)
STIFFENERS - 1 3/4"x1 3/16" LVL (S.G.= 0.50 min)
EDGE STRIP - 1 3/4"x1/2" PVC (DENSITY = 50 lb/ft³)

DOUBLE FIBERGLASS PANEL DOOR (NON-IMPACT)

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DWG: HWMF-3
SHEET: 6/6

