

CUSTOM SERIES

OUTSWING WOOD DOORS

FLORIDA STATE APPROVAL

CODE VERSION: FLORIDA BUILDING CODE 2023 - 8th EDITION
APPROVED FOR USE INSIDE HVHZ AND OUTSIDE HVHZ
CATEGORY: EXTERIOR DOORS -- SUBCATEGORY: SWINGING EXTERIOR DOOR ASSEMBLY
IMPACT RESISTANT: LARGE MISSILE

GENERAL NOTES:

- 1- CODE: THIS PRODUCT HAS BEEN TESTED UNDER PROTOCOLS TAS 201, 202 AND 203 AND DESIGNED IN ACCORDANCE WITH THE FBC 2023 - 8th EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2- DEFINITION: THIS PRODUCT IS AN EXTERIOR OUT SWING WOOD TYPE DOOR DESIGNED, CONSTRUCTED AND TESTED TO PROVIDE PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (LARGE & SMALL MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 3- POSTING: PRODUCT SHALL BE LABELED AS PER FBC SECTION 1703.5. THE PERMANENT LABEL, MARKING OR ETCHING SHALL PROVIDE TRACEABILITY TO THE MANUFACTURER AND PRODUCT.
- 4- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-22 AND PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES HERE IN SPECIFIED. THE ULTIMATE DESIGN PRESSURES, AS DETERMINED FROM ASCE 7-22, ARE PERMITTED TO BE MULTIPLIED BY 0.6 AS PER THE FLORIDA BUILDING CODE.
- 5- MATERIAL:

5.1- ALL WOOD TO BE WITH MINIMUM 0.55 SPECIFIC GRAVITY CORRECTED FOR 12% MOISTURE CONTENT PER NDS 0.58 RAW. DENSITY OF BUTCHER BLOCK CONSTRUCTION WITH VENEER 0.535 g/cm ^ 3.

5.2- GLAZING: LAMINATED IMPACTED RATED AS SPECIFIED IN THIS APPROVAL
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:

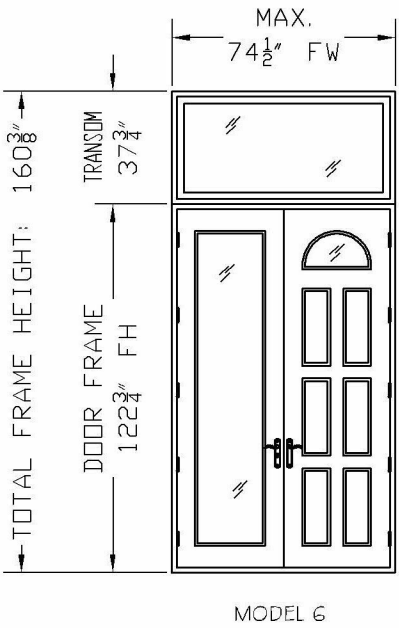
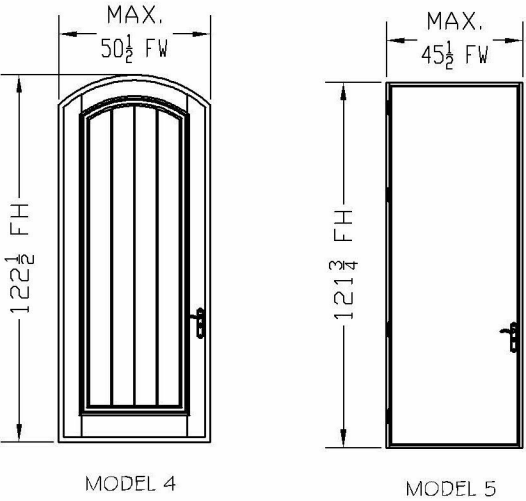
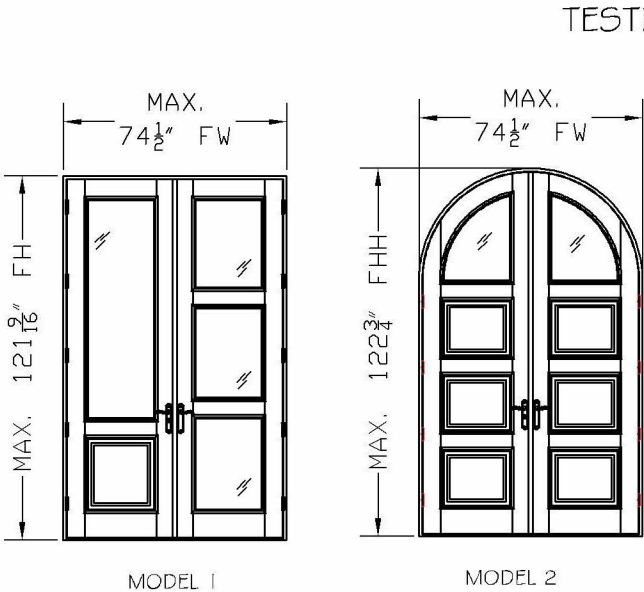
7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.

7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.

7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.

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Pedro Figueiredo

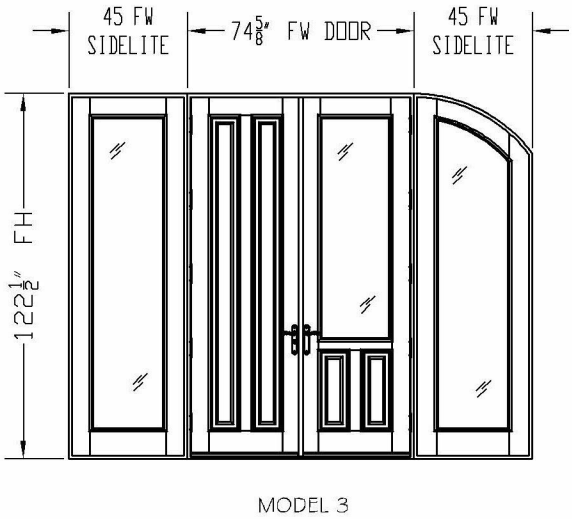
Digitally signed by Pedro Figueiredo
Date: 2023.10.19 07:18:32 -04'00'

DIGITALLY SIGNED FOR 16 PAGES

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Pedro De Figueiredo
10/19/2023



WIND STRUCTURAL: PD= +65 PSF, -65 PSF
WIND CYCLIC: PD= +65 PSF, -65 PSF
IMPACT RATING: LARGE & SMALL MISSILE
OPERATING FORCE
WATER RESISTANCE: ASTM E331, 11.25 PSF (15% OF +75 PSF)
AIR INFILTRATION: ASTM E283
FORCE ENTRY: ASTM F588

WIND STRUCTURAL: PD= +65 ** PSF, -65 PSF
WIND CYCLIC: PD= +65 PSF, -65 PSF
IMPACT RATING: LARGE & SMALL MISSILE

** PRODUCT POSITIVE PRESSURE TO BE LIMITED TO +60 PSF FOR INSTALLATIONS WITHOUT AN OVERHANG MEETING THE OH ratio= OH length/ OH height
DOOR COVERAGE (FBC SECTION 1709.5.1)

OPERATING FORCE
WATER RESISTANCE: ASTM E331
9 PSF -- (15% OF +60 PSF)
AIR INFILTRATION: ASTM E283
FORCE ENTRY: ASTM F588

ENGINEERING SERVICES - CA 32459
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PTMF@AOL.COM
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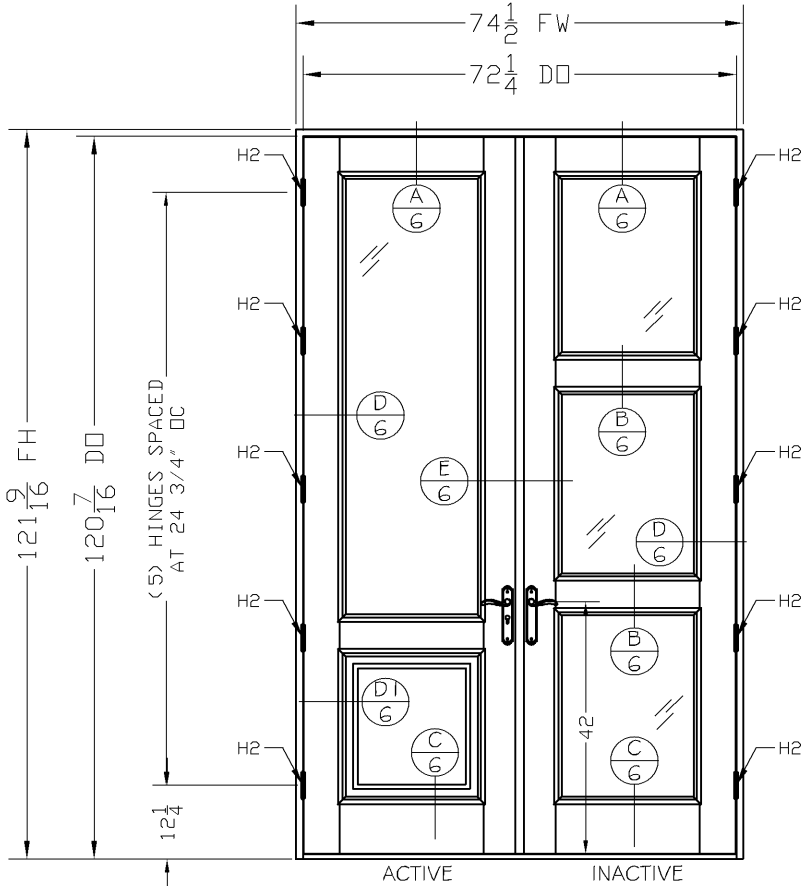


PRODUCT:
CUSTOM SERIES
OUTSWING DOORS
LARGE & SMALL MISSILE
IMPACT RATED

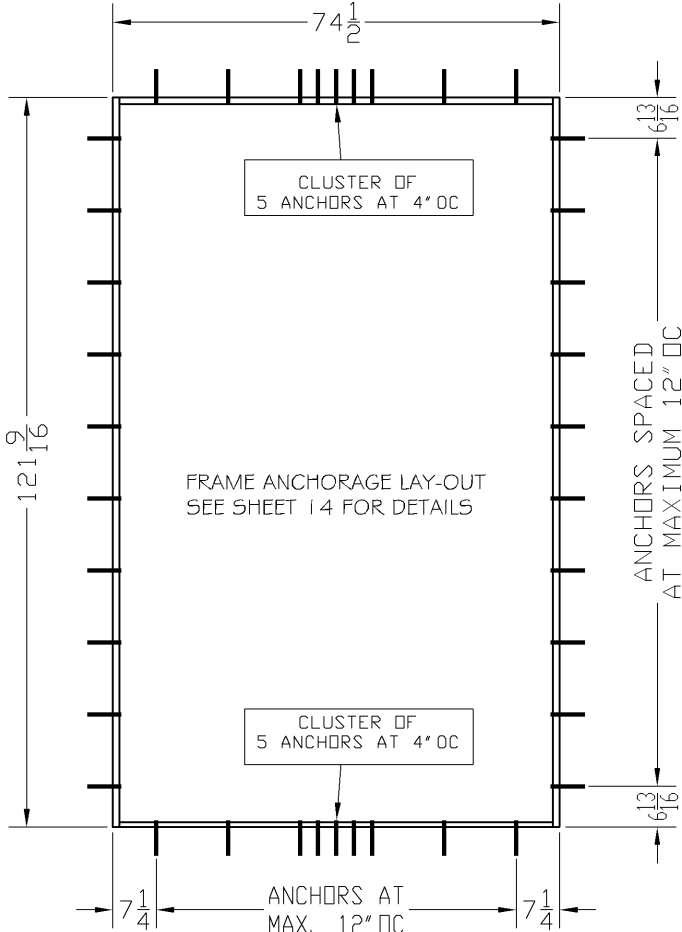
MANUFACTURER:
CUSTOM DOORS
222 NE 27TH STREET
MIAMI- FLORIDA- 33137
TEL: (561) 939-3368
FAX: (877) 839-2220

SCALE:
NA
DATE:
10/19/2023
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23-202
SHEET
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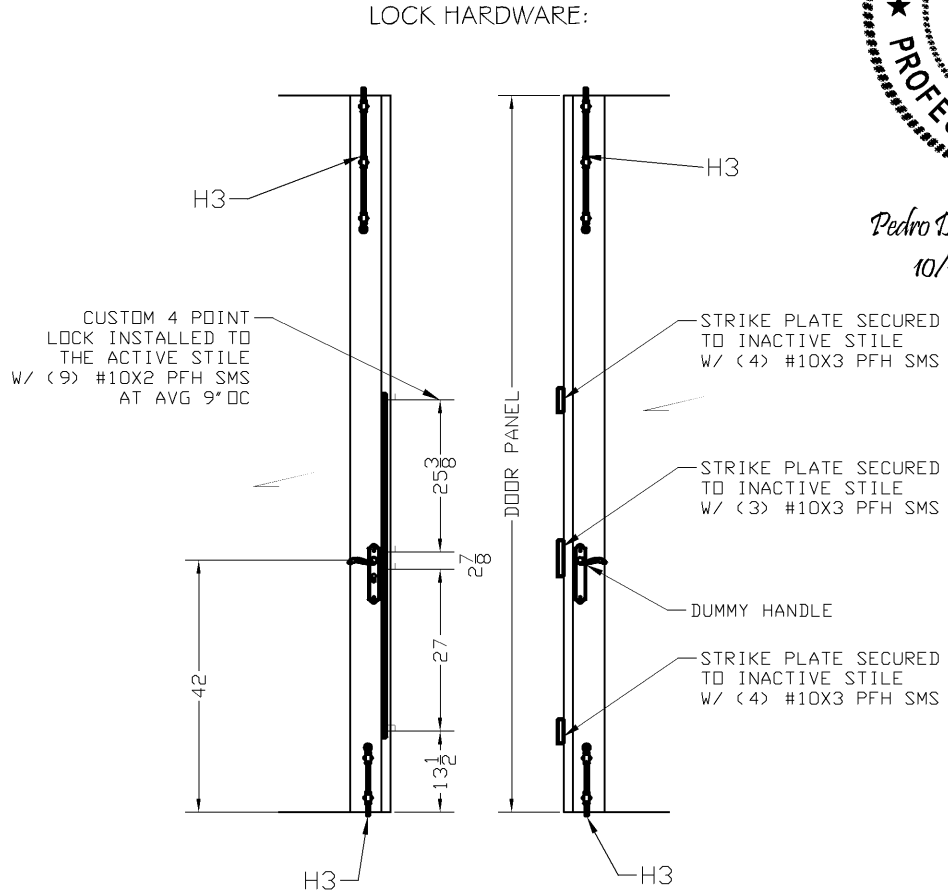
MODEL



EXTERIOR SIDE ELEVATION
RECTANGULAR TYPE PAIR DOOR XX



SEE SHEET 14 TO SELECT ANCHOR OPTIONS



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10/19/2023

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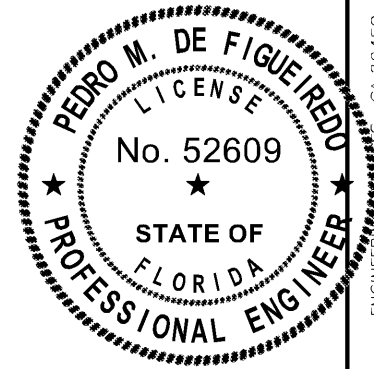
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ENGINEERING SERVICES - CA 32450
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MODEL I
RECTANGULAR SWING-OUT
PAIR DOOR XX: (MAX. 74 1/2" X 121 9/16")
SINGLE DOOR X: (MAX. 38 3/8" X 121 9/16")

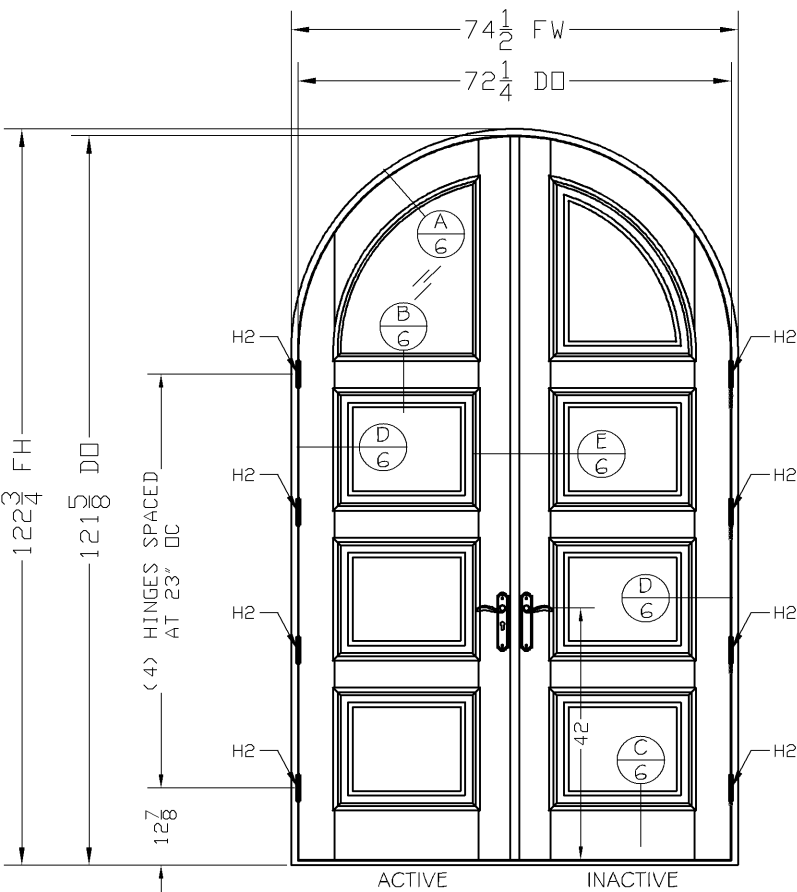
PD = +65 PSF, -65 PSF

OPERATING FORCE
WATER RESISTANCE: ASTM E331, 11.25 PSF
(15% OF +75 PSF)
AIR INFILTRATION: ASTM E283
FORCE ENTRY: ASTM F588

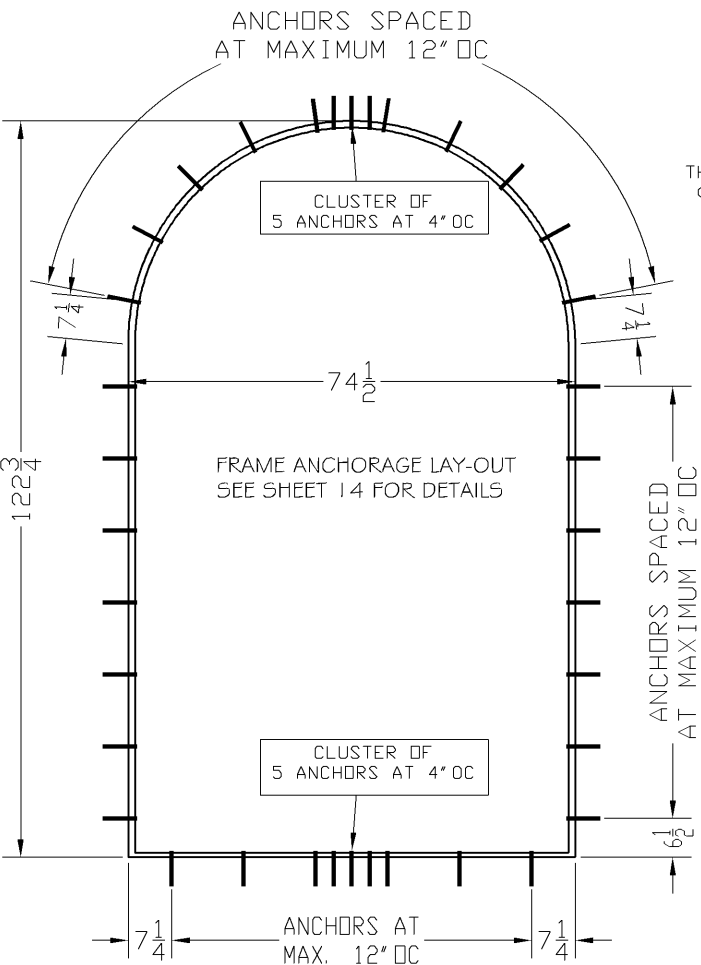
HARDWARE NOTES

- 1- SURFACE BOLTS: (4) SURFACE BOLTS BY CUSTOM PART #H-3 WERE INSTALLED IN THE ACTIVE AND INACTIVE LEAVES AT TOP AND BOTTOM.
- THE BOTTOM SURFACE BOLTS WERE ATTACHED USING LOCK GUIDES FROM THE EDGE OF THE ASTRAGAL AT: 3 7/8", 5/8" AND 6 5/8" USING (2) #8X1 1/2" SS PFH SMS PER LOCATION.
- THE TOP SURFACE BOLTS WERE ATTACHED USING LOCK GUIDES FROM THE TOP EDGE OF THE ASTRAGAL AT: 3 7/8", 5/8", 9" AND 18 1/2" USING (2) #8 X 1 1/2" SS PFH SMS PER LOCATION. A LOCK BAR REINF. GUIDE WAS INSTALLED USING (2) #12X3 SS PFH SMS.
- 2- STRIKE PLATES:
- 2.1- FRAME HEAD & SILL: A 1 1/8X2X1 1/4 THICK SS STRIKE PLATE WERE INSTALLED ON THE HEADER AND SILL USING (4) #12X3 SS PFH SMS. THE STRIKE PLATES WERE FLUSH WITH THE SURFACE OF THE SILL AND HEADER.
- 2.2- INACTIVE SASH: (3) STRIKE PLATES WERE INSTALLED IN THE INACTIVE LEAF AT CORRESPONDING POSITIONS AND WERE ATTACHED USING (4,3,4) #10X3 SS PFH SMS STARTING FROM BOTTOM OF THE LEAF
- 3- DOOR HANDLE: A DUMMY HANDLE WAS INSTALLED ON THE INACTIVE LEAF.
- 4- ACTIVE DOOR LOCK: A (3) POINT WITH AN ADDITIONAL LATCHING POINT, CUSTOM # H1 WAS INSTALLED IN THE ACTIVE DOOR LEAF AT 42" FROM THE BOTTOM OF THE ACTIVE DOOR LEAF. THE LOCKING POINTS WERE AT 13.5, 40.5, 43.375, 68.75 FROM THE BOTTOM OF THE ACTIVE LEAF. THE LOCK WAS INSTALLED USING (9) #10X2 SS PFH SMS AT 10" AND 9" OC AVERAGE FROM THE BOTTOM OF THE DOOR LEAF.
- 5- HINGES: (4) 4.5X4.5 SOLID BRASS HINGES BY CUSTOM PART# H-2 WERE ATTACHED TO THE DOOR FRAME AND DOOR LEAVES USING (2) #12X3 / (2) #12X1 1/4 PFH SMS AND WERE ATTACHED TO THE DOOR LEAF USING (4) #12X3 PFH SMS.

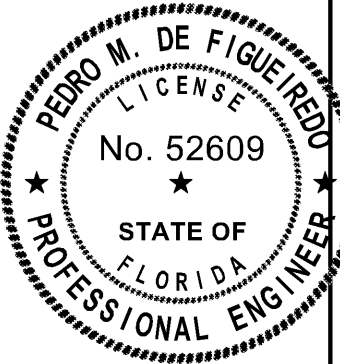
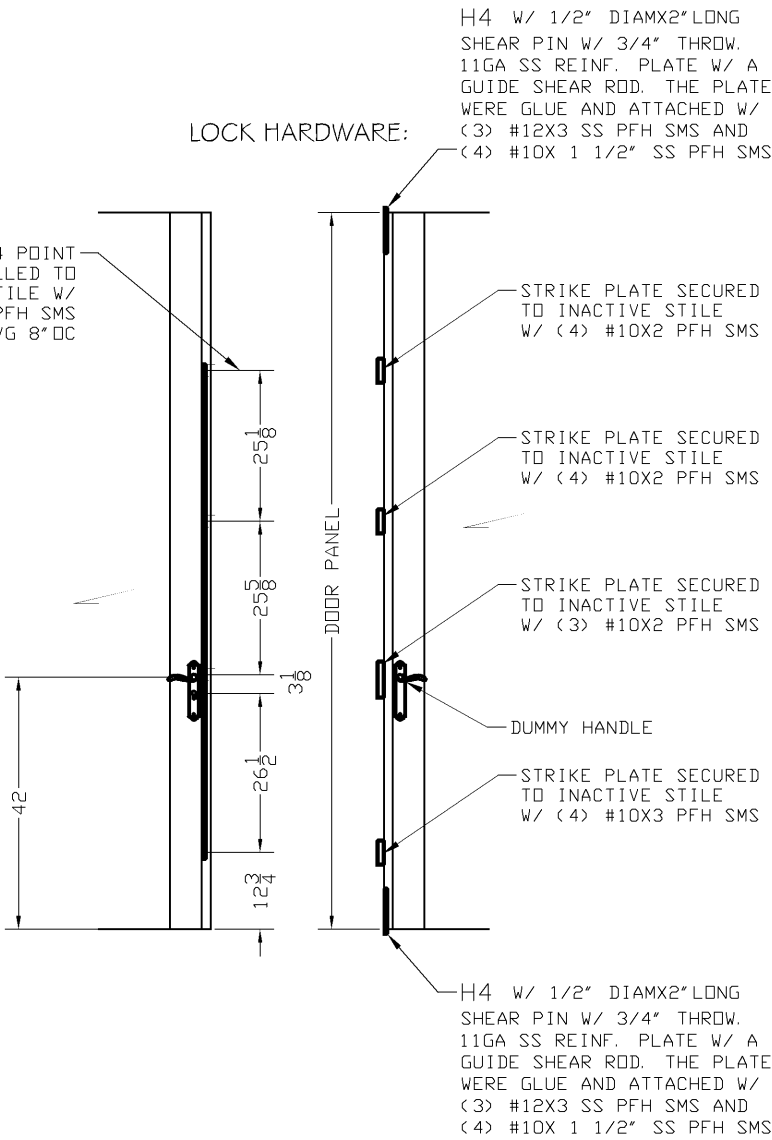
MODEL 2



EXTERIOR SIDE ELEVATION
ARCHED TYPE PAIR DOOR XX



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Pedro De Figueiredo
10/19/2023

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CUSTOM SERIES
OUTSWING DOORS
LARGE & SMALL MISSILE
IMPACT RATED

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FAX: (877) 839-2220

SCALE:
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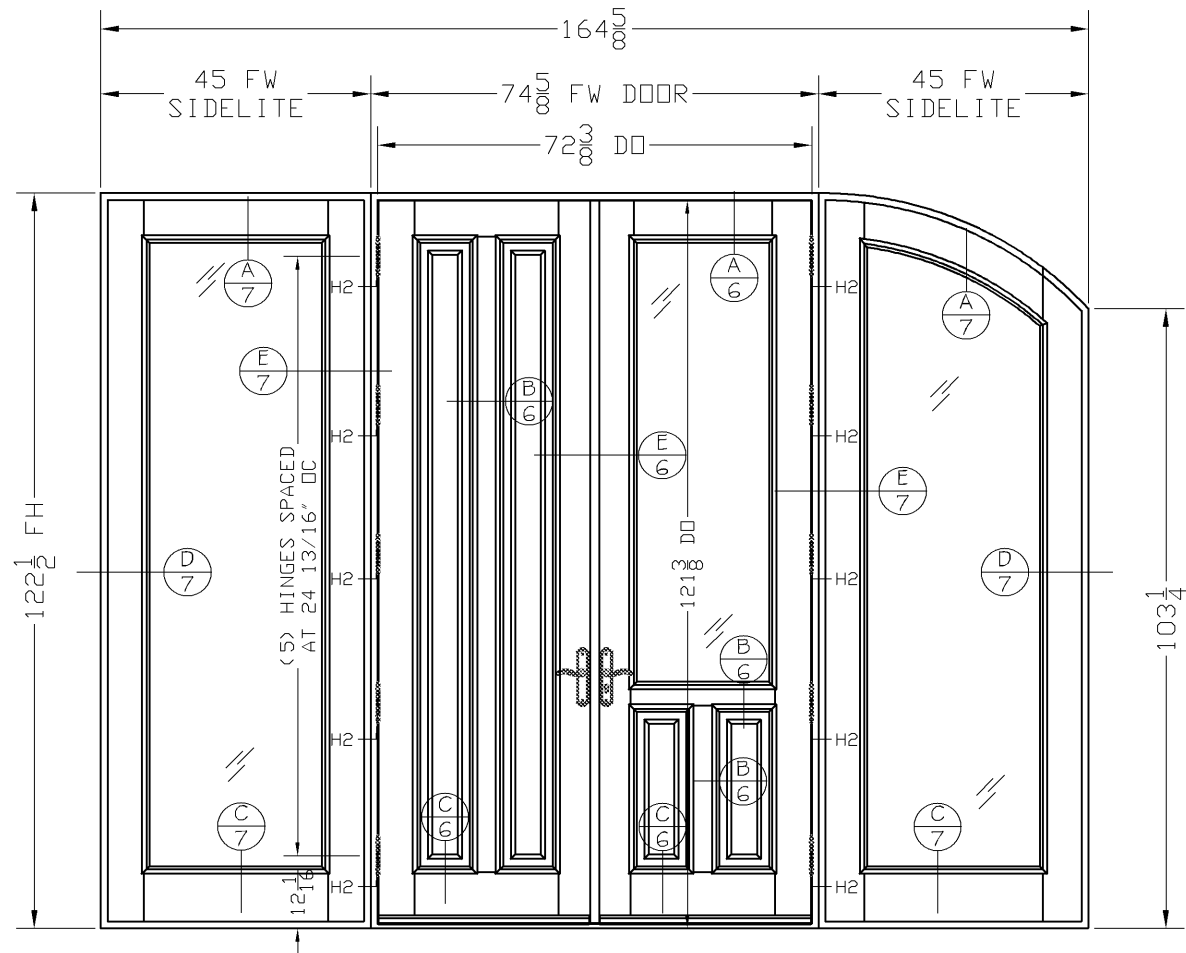
MODEL 2
RECTANGULAR SWING-OUT
PAIR DOOR XX: (MAX. 74 1/2" X 122 3/4")
SINGLE DOOR X: (MAX. 38 3/8" X 122 3/4")

PD= +65 PSF, -65 PSF

OPERATING FORCE
WATER RESISTANCE: ASTM E331, 11.25 PSF
(15% OF +75 PSF)
AIR INFILTRATION: ASTM E283
FORCE ENTRY: ASTM F588

HARDWARE NOTES:

- 1- FLUSH BOLTS: THE INACTIVE DOOR LEAF CONTAINED A CONCEALED FLUSH BOLT CUSTOM PART # H4 WITH 1/2" DIAMX2" LONG SHEAR PIN WITH 3/4" THROW AT TOP AND BOTTOM. THE LOCK CONTAINED AN 11GA SS REINFORCEMENT PLATE WITH A GUIDE SHEAR ROD AT TOP & BOTTOM. THE REINF. PLATE WERE GLUE USING ASHALAND ISOGRIP SP 3030 D AND WERE ATTACHED USING (3) #12X3 SS PFH SMS FROM BOTTOM AND (4) #10X 1 1/2" SS PFH SMS FROM INTERIOR EDGE.
- 2- STRIKE PLATES:
 - 2.1- FRAME HEAD & SILL: a 1X2X0.244 THICK SS STRIKE PLATE WERE INSTALLED ON THE HEADER AND SILL USING (4) #12X3 SS PFH SMS. THE STRIKE PLATES WERE FLUSH WITH THE SURFACE OF THE SILL AND HEADER.
 - 2.2- INACTIVE SASH: (4) 0.8X6.9" LONG STRIKE PLATE WERE INSTALLED IN THE INACTIVE LEAF EACH USING (4) #10X2 PFH SMS. THE STRIKE PLATE WERE INSTALLED TO MATCH THE LOCK POINTS FROM THE BOTTOM OF THE LEAF. THE SECOND STRIKE PLATE HAS TWO CUT-OUTS
- 3- DOOR HANDLE: A DUMMY HANDLE WAS INSTALLED ON THE INACTIVE LEAF.
- 4- ACTIVE DOOR LOCK: A (4) POINT WITH AN ADDITIONAL LATCHING POINT, CUSTOM # H1A WAS INSTALLED IN THE ACTIVE DOOR LEAF AT 42" FROM THE BOTTOM OF THE ACTIVE DOOR LEAF. THE LOCKING POINTS WERE AS INDICATED IN THE ILLUSTRATION ABOVE FROM THE BOTTOM OF THE ACTIVE LEAF. THE LOCK WAS INSTALLED USING (13) #10X2 SS PFH SMS AT 9 3/8" FROM THE BOTTOM OF THE DOOR AND 8" OC AVERAGE.
- 5- HINGES: (4) 4.5X4.5 SOLID BRASS HINGES BY CUSTOM PART# H-2 WERE ATTACHED TO THE DOOR FRAME AND DOOR LEAVES USING (4) #12X3 PFH SMS AND WERE ATTACHED TO THE DOOR LEAF USING (4) #12X3 PFH SMS.



EXTERIOR SIDE ELEVATION
RECTANGULAR PAIR DOOR
O-XX-O WITH SIDELITES

MODEL 3

RECTANGULAR SWING-OUT W/ SIDELITES
PAIR DOOR XX: (MAX. 74 5/8" X 122 1/2")
SINGLE DOOR X: (MAX. 38 7/16" X 122 1/2")
SIDELITE O: (MAX. 45" X 122 1/2")

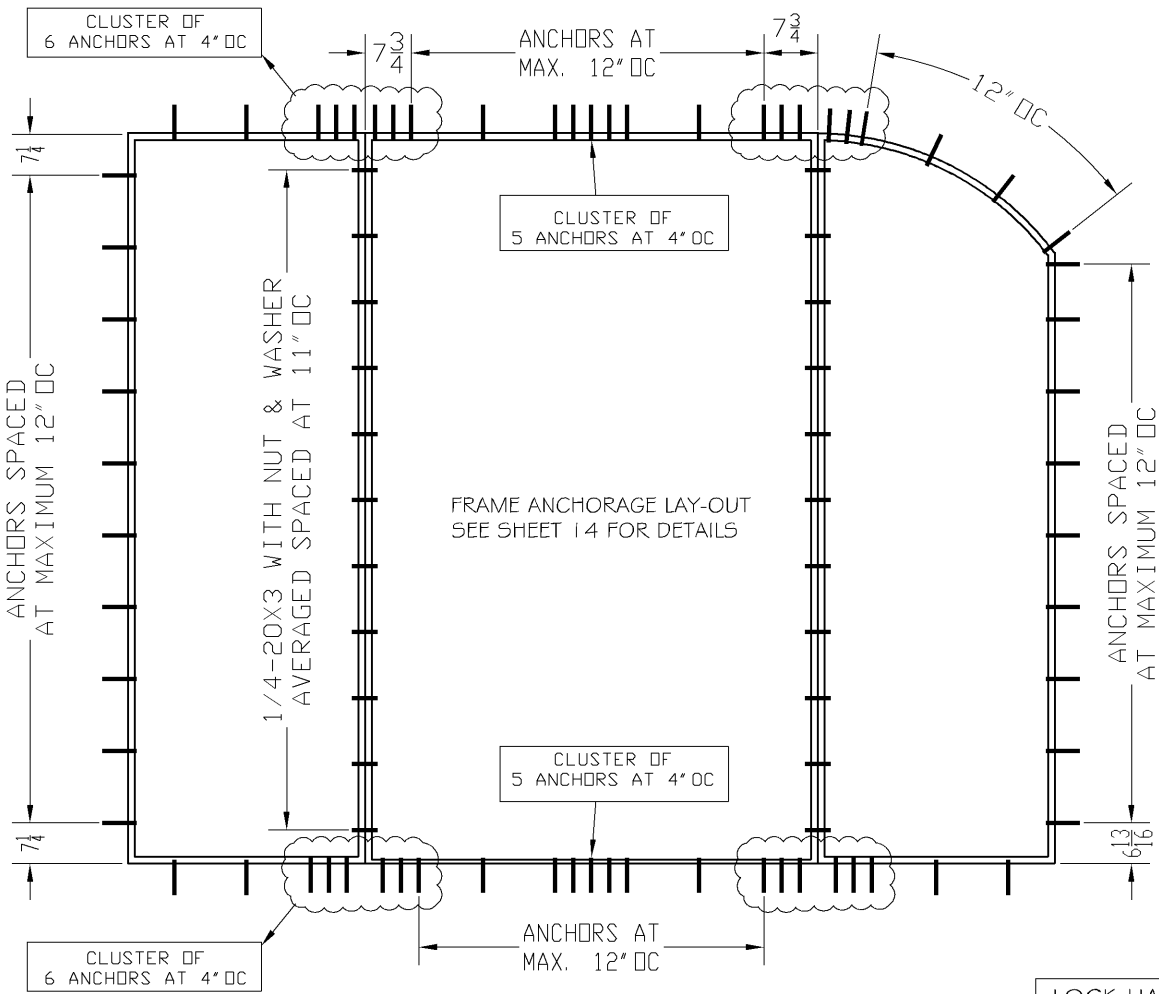
PD= +65 PSF, -65 PSF

OPERATING FORCE
WATER RESISTANCE: ASTM E331, 11.25 PSF
(15% OF +75 PSF)
AIR INFILTRATION: ASTM E283
FORCE ENTRY: ASTM F588

SASH CONSTRUCTION:

THE DOOR LEAF CORNERS AND INTERMEDIATE CONNECTIONS WERE RABBET BUTT JOINED USING MORTISE AND TENON CONNECTIONS.
BOTTOM RAIL TO VERTICAL STILE: 6 3/4 X 3/4 X 1 7/8" TENON INTO THE STILE
TOP RAIL TO VERTICAL STILE: 4 1/4 X 3/4 X 1 7/8" LONG TENON INTO THE STILE
INTERMEDIATE RAIL TO VERTICAL STILE: 4 1/4 X 3/4 X 1 7/8" LONG TENON INTO THE STILE
INTERMEDIATE RAIL TO HORIZONTAL RAILS: 4 1/4 X 3/4 X 1 7/8" LONG TENON INTO RAILS
THE ASTRAGAL WAS ATTACHED TO THE DOOR SASH USING (11) #8X1 WOOD SCREWS AT 11"OC.

MODEL 3

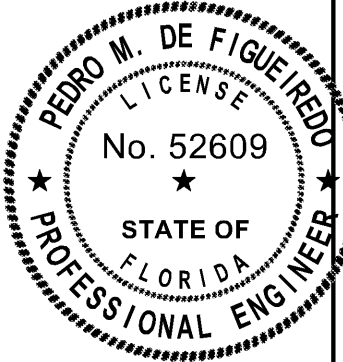


SEE SHEET 14 TO SELECT ANCHOR OPTIONS

LOCK HARDWARE:
SAME AS SHEET 3

HARDWARE NOTES:

- 1- FLUSH BOLTS: THE INACTIVE DOOR LEAF CONTAINED A CONCEALED FLUSH BOLT CUSTOM PART # H4 WITH 1/2" DIAM X2" LONG SHEAR PIN WITH 3/4" THROW AT TOP AND BOTTOM. THE LOCK CONTAINED AN 11 GA SS REINFORCEMENT PLATE WITH A GUIDE SHEAR ROD AT TOP & BOTTOM. THE REINFORCING PLATE WERE ATTACHED USING (3) #12X3 SS PFH SMS FROM BOTTOM AND (4) #10X1 1/2" SS PFH SMS FROM INTERIOR EDGE. THE FLUSH BOLTS WERE 2 5/8" FROM THE VERTICAL END OF THE LOCK STILE.
- 2- STRIKE PLATES:
 - 2.1- FRAME HEAD & SILL: A 1 1/2X3X1/4 THICK STEEL STRIKE PLATES WERE INSTALLED ON THE HEADER AND SILL USING (4) #12X3 PFH SMS. THE STRIKE PLATES WERE FLUSH WITH THE SURFACE OF THE SILL AND HEADER.
 - 2.2- INACTIVE SASH: (4) 0.8X6.9" LONG STRIKE PLATE WERE INSTALLED IN THE INACTIVE LEAF EACH USING (4) #10X2 PFH SMS, EXCEPT 2ND FROM THE BOTTOM WITH (3) SCREWS SAME TYPE. THE STRIKE PLATE WERE INSTALLED TO MATCH THE LOCK POINTS FROM THE BOTTOM OF THE LEAF. THE SECOND STRIKE PLATE HAS TWO CUT-OUTS
- 3- DOOR HANDLE: A DUMMY HANDLE WAS INSTALLED ON THE INACTIVE LEAF.
- 4- ACTIVE DOOR LOCK: A (4) POINT WITH AN ADDITIONAL LATCHING POINT, CUSTOM # H1A WAS INSTALLED IN THE ACTIVE DOOR LEAF AT 42" FROM THE BOTTOM OF THE ACTIVE DOOR LEAF. THE LOCKING POINTS WERE AS INDICATED IN THE ILLUSTRATION AS PER SHEET 3 OF 14 FROM THE BOTTOM OF THE ACTIVE LEAF. THE LOCK WAS INSTALLED USING (15) #10X2 SS PFH SMS AT 8 3/4" FROM THE BOTTOM OF THE DOOR AND 7 7/8" OC AVERAGE.
- 5- HINGES: (5) 4.5X4.5 SOLID BRASS HINGES BY CUSTOM PART# H-2 WERE ATTACHED TO THE DOOR FRAME AND DOOR LEAVES USING (4) #12X3 PFH SMS AND WERE ATTACHED TO THE DOOR LEAF USING (4) #12X3 PFH SMS.



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10/19/2023

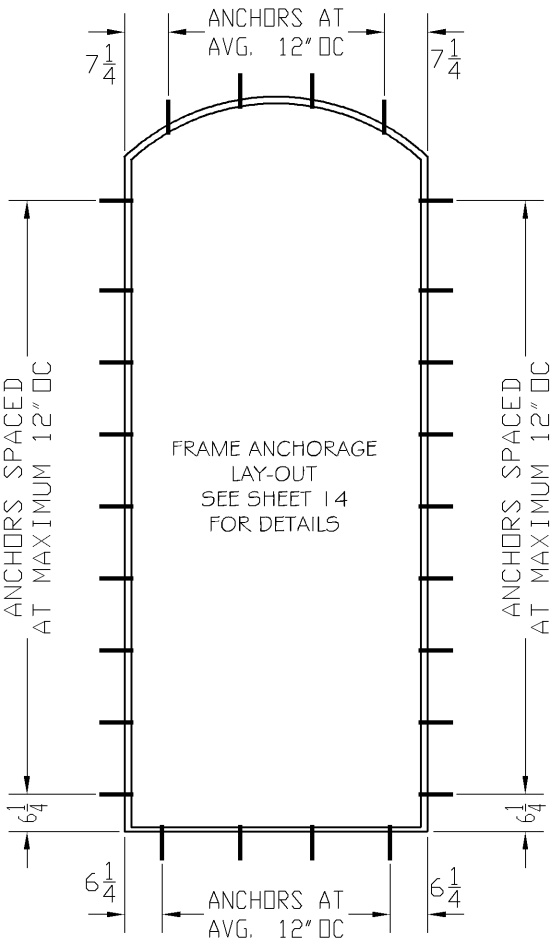
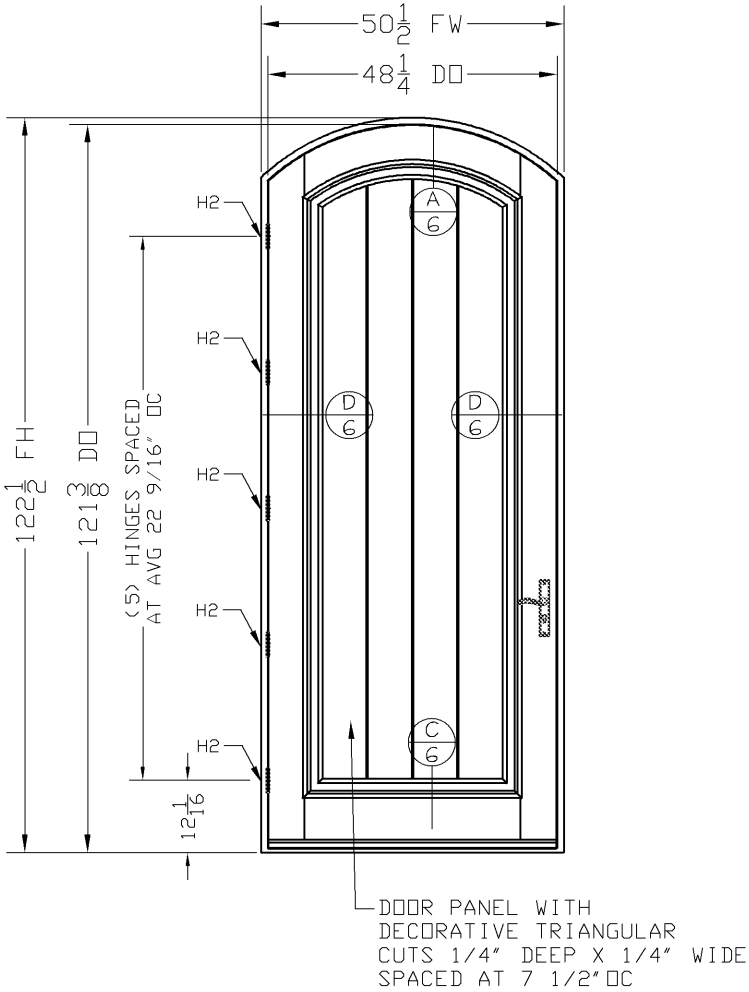
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LARGE & SMALL MISSILE
IMPACT RATED

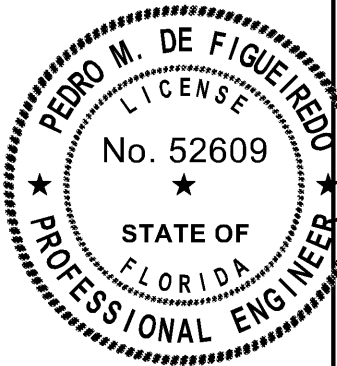
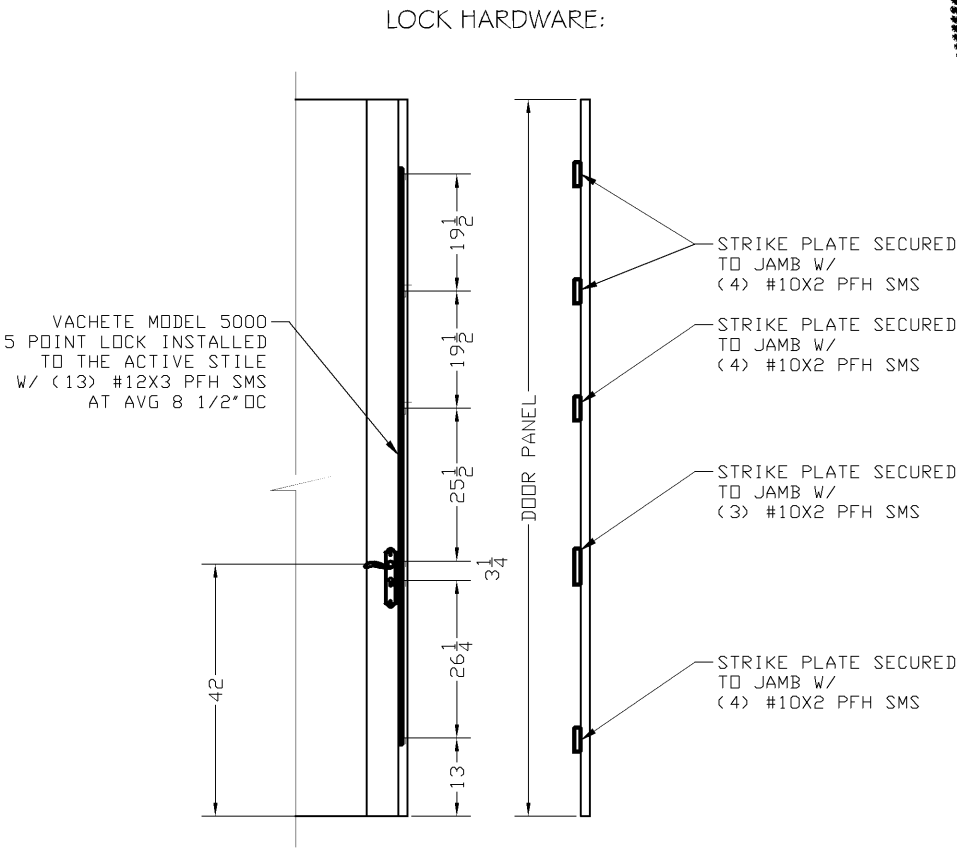
MANUFACTURER:
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MODEL 4



SEE SHEET 14 TO SELECT ANCHOR OPTIONS



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5 OF 16

ENGINEER: PEDRO M. DE FIGUEIREDO
PE 52609
9715 W. BROWARD BLVD.
PLANTATION, FL 33324
PPMF@AOL.COM
ENGINEER SEAL
PEDRO DE FIGUEIREDO
PE 52609

MODEL 4
RECTANGULAR SWING-OUT 1 3/4"
SINGLE DOOR X: (MAX. 50 1/2" X 122 1/2")
PD= +65 PSF, -65 PSF

OPERATING FORCE
WATER RESISTANCE: ASTM E331, 11.25 PSF
(15% OF +75 PSF)
AIR INFILTRATION: ASTM E283
FORCE ENTRY: ASTM F588

HARDWARE NOTES:

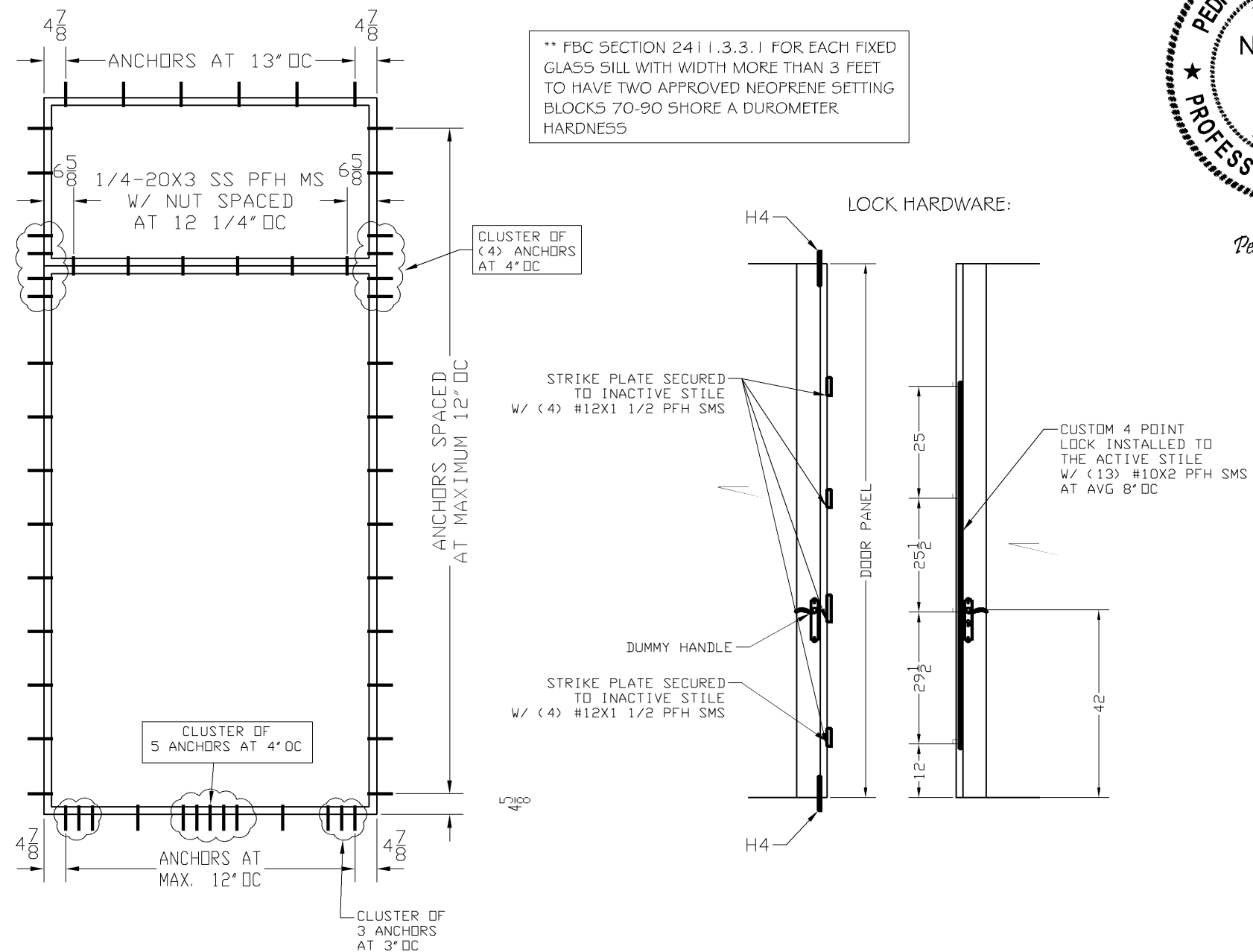
- 1- DOOR HANDLE: ACTIVATING THE LATCH WAS INSTALLED AT 42" FROM THE BOTTOM OF THE DOOR.
- 2- ACTIVE DOOR LOCK: A (5) POINT LOCKING MECHANISM WITH AN ADDITIONAL LATCH, # H1A - 5 POINT BY CUSTOM, WAS INSTALLED ON THE LEAF. EACH POINT LOCK PROTRUDED 1 3/16". THE CORRESPONDING (5) 6 7/8" X 0.80 X 0.112" PAINTED STEEL STRIKES PLATES WITH 1.73" X 0.50" SLOT WERE ATTACHED TO THE DOOR JAMB AS ILLUSTRATED ABOVE
- 3- HINGES: (5) 4.5X4.5 SOLID BRASS HINGES BY CUSTOM PART# H-2 WERE ATTACHED TO THE DOOR FRAME AND DOOR LEAVES USING (4) #12X3 PFH SMS AND WERE ATTACHED TO THE DOOR LEAF USING (4) #12X3 PFH SMS.

Technical drawing of a door assembly showing dimensions and component labels. The drawing includes the following dimensions and labels:

- Overall Dimensions:**
 - Overall Height: 160 3/8
 - Overall Width: 74 1/2 FW
 - Door Leaf Width: 66 1/4 DLO
 - Door Leaf Height: 29 5/8 DLO
 - Door Leaf Width (Alternative): 122 3/4 FH
 - Door Leaf Height (Alternative): 121 DO
 - Door Leaf Height (Alternative): 93 3/8
- Door Assembly Components:**
 - INACTIVE:** The left side of the door assembly, featuring a large rectangular panel with a diagonal line and a circular label 'C' over '6'.
 - ACTIVE:** The right side of the door assembly, featuring a large rectangular panel with a diagonal line, a circular label 'D' over '6', a circular label 'E' over '6', a circular label 'F' over '7', a circular label 'A' over '1' over '7', and a circular label 'D' over '1' over '6'.
 - Hinges:** Labeled 'H2' and 'H1'.
 - Door Leaf:** Labeled 'DO'.
 - Door Frame:** Labeled 'FH'.
 - Door Leaf Width:** Labeled 'DLO'.
 - Door Leaf Height:** Labeled 'DO'.
 - Door Leaf Width (Alternative):** Labeled 'FH'.
 - Door Leaf Height (Alternative):** Labeled 'DO'.
 - Door Leaf Height (Alternative):** Labeled '93 3/8'.
- Notes:**
 - (5) HINGES SPACED AT 25" OC

MODEL 6 RECTANGULAR W/ TRANSOM SWING-OUT PAIR DOOR XX-O: (MAX. 74 1/2" X 160 3/8") SINGLE DOOR X-O: (MAX. 38 3/8" X 160 3/8")
PD= +65 PSF, -65 PSF

OPERATING FORCE
WATER RESISTANCE: ASTM E331
9 PSF -- (15% OF +60 PSF)
AIR INFILTRATION: ASTM E283
FORCE ENTRY: ASTM F588



- 1- FLUSH BOLTS: CUSTOM PART H-4 INSTALLED IN THE INACTIVE LEAF 17 1/4" FROM THE TOP AND 19 1/2" FROM THE BOTTOM OF THE SASH. THE LOCK CONTAINED AN 11 GA SS REINFORCEMENT PLATE WITH A GUIDE SHEAR ROD AT TOP AND BOTTOM. THE REINF. PLATE WERE GLUED USING ASHLAND ISOGRIP SP 3030D AND WERE ATTACHED USING (3) #12X3 SS PFH SMS FROM BOTTOM AND (4) #10X1 1/2" SS PFH SMS FROM THE INTERIOR EDGE.
- 2- STRIKE PLATES:
 - 2.1- FRAME HEAD & SILL: A 1X2X0.244 THICK SS STRIKE PLATE WERE INSTALLED ON THE HEADER AND SILL USING (4) #12X3 SS PFH SMS. THE STRIKE PLATES WERE FLUSH WITH THE SURFACE OF THE SILL AND HEADER.
 - 2.2- INACTIVE SASH: (4) 0.8X6.9" LONG STRIKE PLATES WERE INSTALLED IN THE INACTIVE LEAF USING (4) #12 X 1 1/2" PFH SMS.
- 3- DOOR HANDLE: A DUMMY HANDLE WAS INSTALLED ON THE INACTIVE LEAF.
- 4- ACTIVE DOOR LOCK: A (4) POINT WITH AN ADDITIONAL LATCHING POINT, CUSTOM # H1A WAS INSTALLED IN THE ACTIVE DOOR LEAF AT 42" FROM THE BOTTOM OF THE ACTIVE DOOR LEAF. THE LOCKING POINTS WERE AT 12, 41.5, 67 AND 92 FROM THE BOTTOM OF THE ACTIVE LEAF. THE LOCK WAS INSTALLED USING (13) #10X2 SS PFH SMS AT 9.375", 16.375, 25.25, 34.5, 46.375, 55.5, 64.5, 71.25, 78.75, 80.875, 90, 96.75, 105 FROM THE BOTTOM OF THE DOOR LEAF.
- 5- HINGES: (5) 4.5X4.5 SOLID BRASS HINGES BY CUSTOM PART# H-2 WERE ATTACHED TO THE DOOR FRAME AND DOOR LEAVES USING (4) #12X3 PFH SMS.

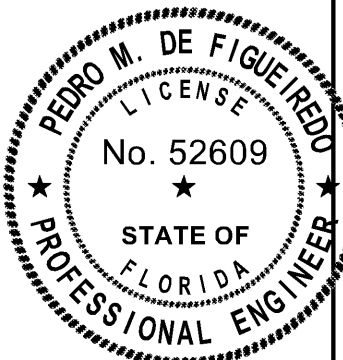
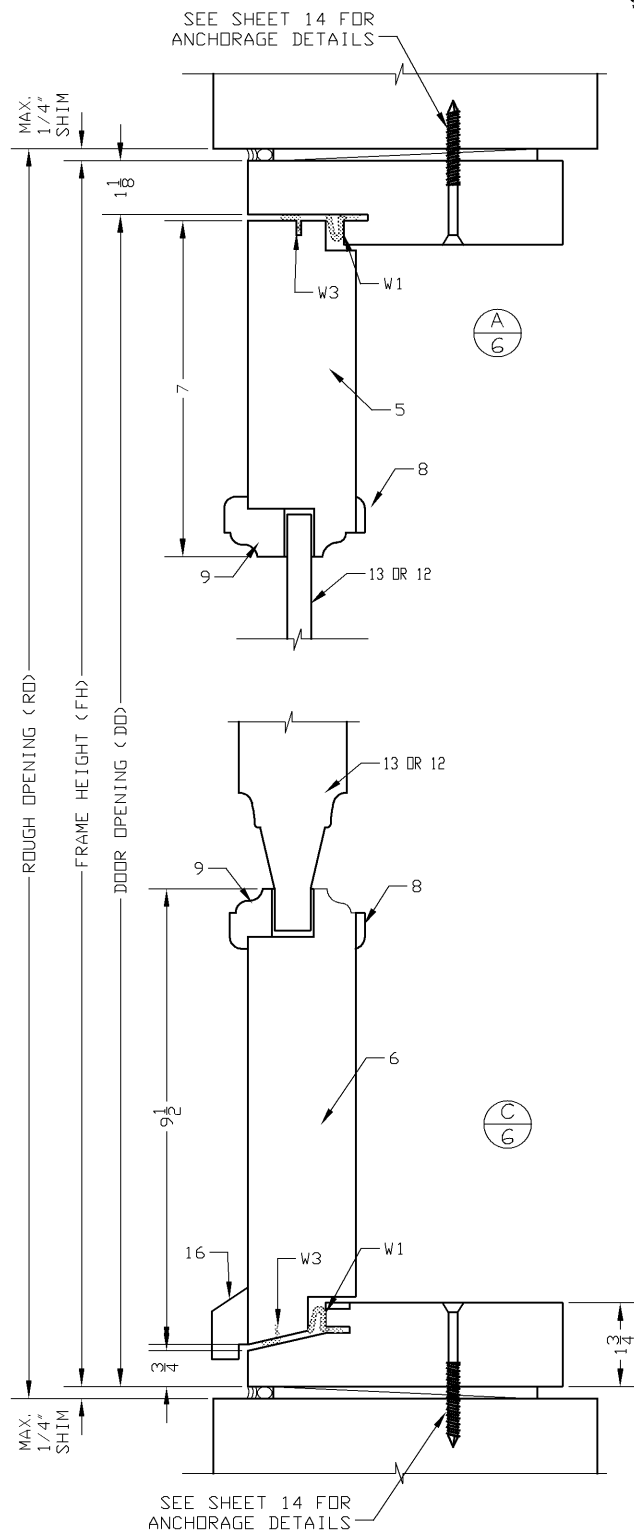
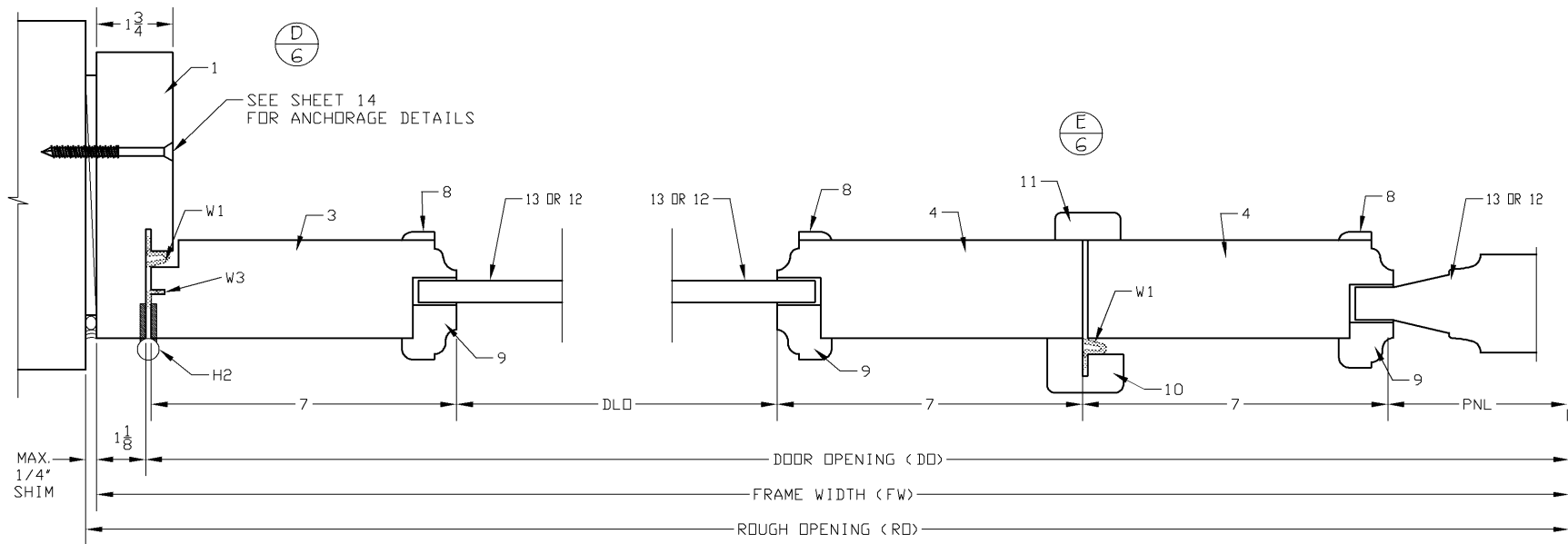
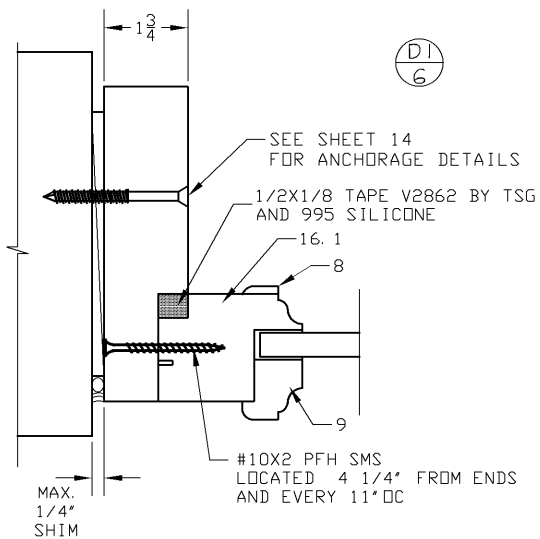
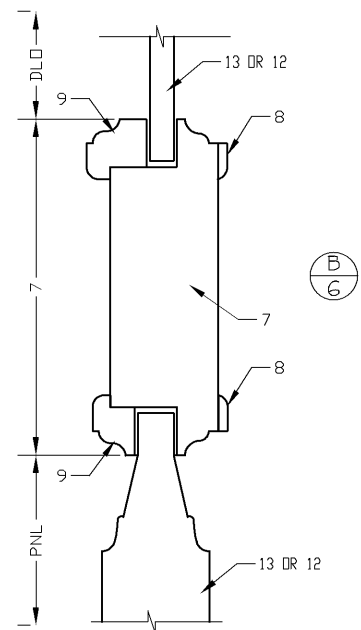


MANUFACTURER:
CUSTOM DOORS
222 NE 27TH STREET
MIAMI- FLORIDA- 33137
TEL: (561) 939-3368
FAX: (877) 839-2220

SHEET
6 OF 16

ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD.
PLANTATION, FL 33324
PPMF@AOL.COM
ENGINEER SEAL
PEDRO DE FIGUEIREDO
PE 52609

MODELS 1, 2, 3, 4 AND 6 - SECTIONS



Pedro De Figueiredo
10/19/2023

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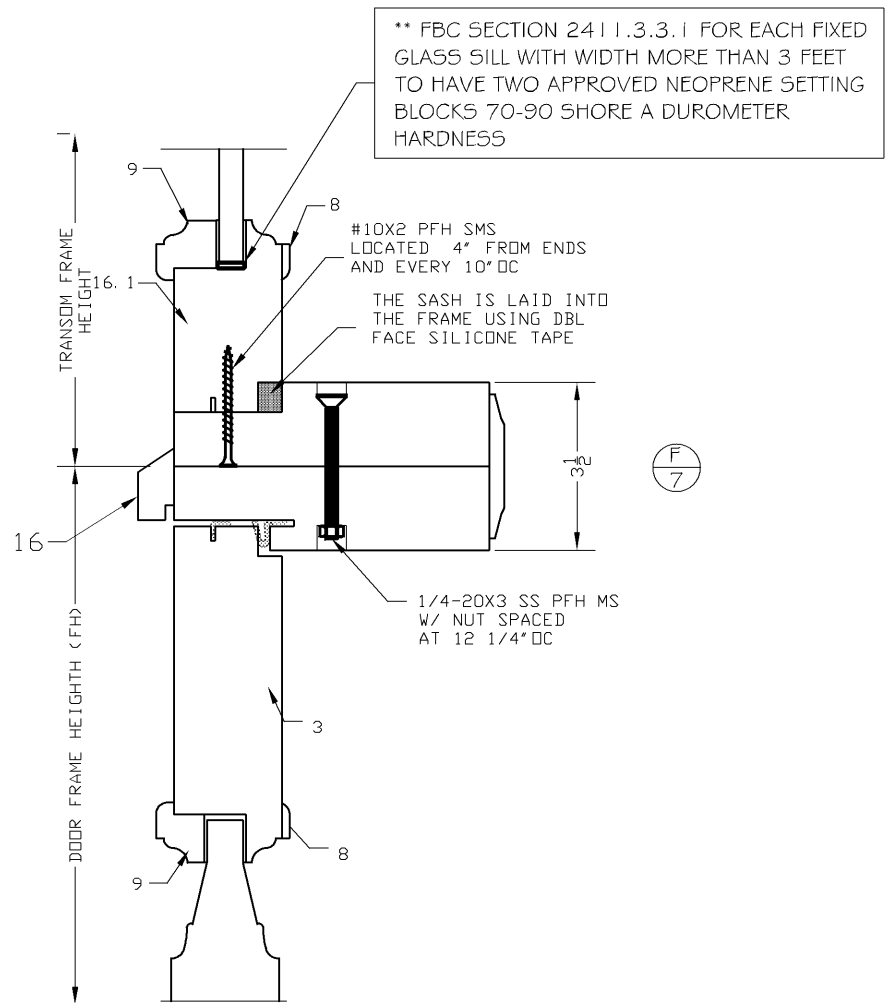
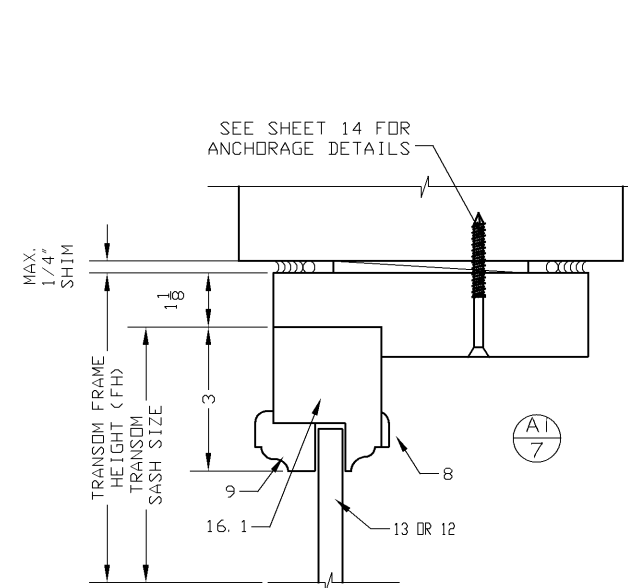
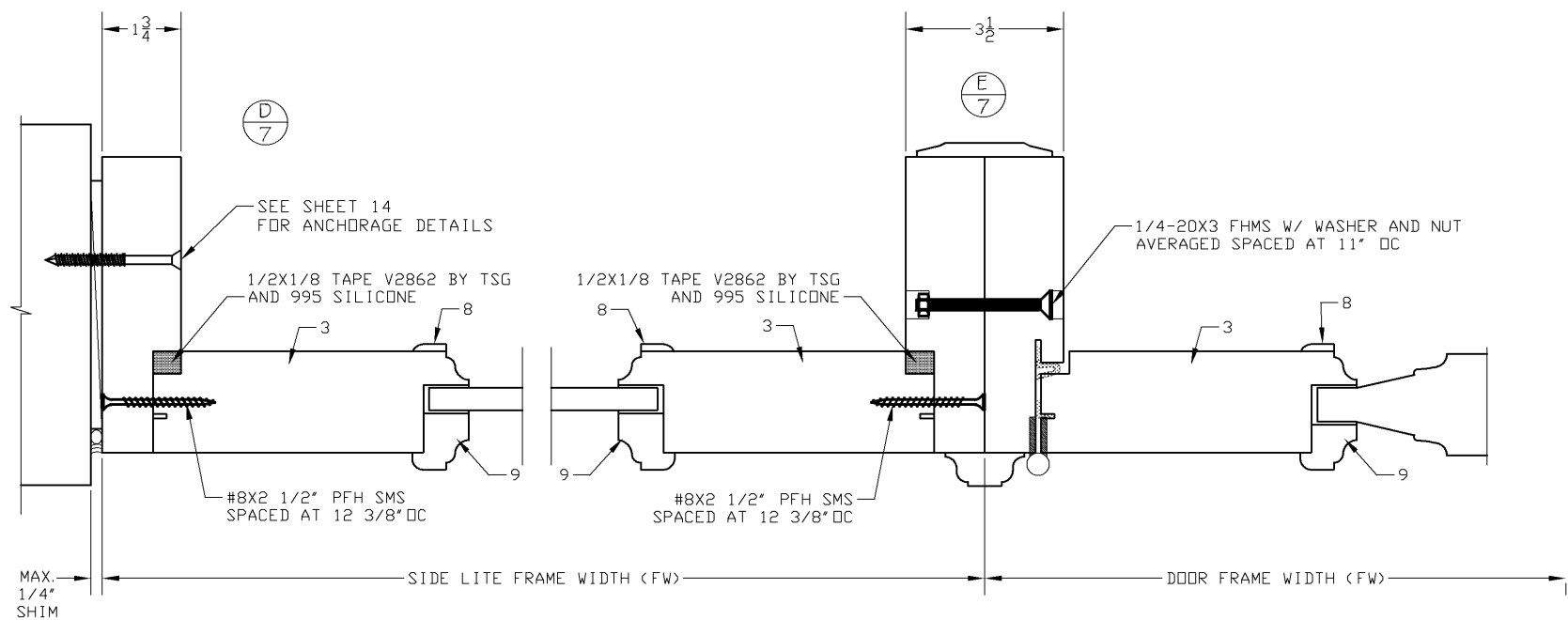


PRODUCT:
CUSTOM SERIES
OUTSWING DOORS
LARGE & SMALL MISSILE
IMPACT RATED

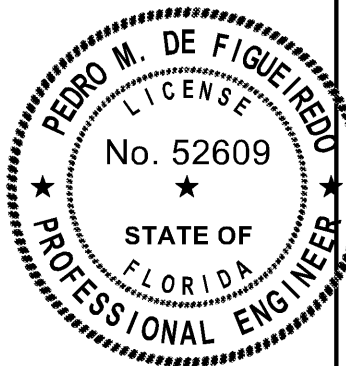
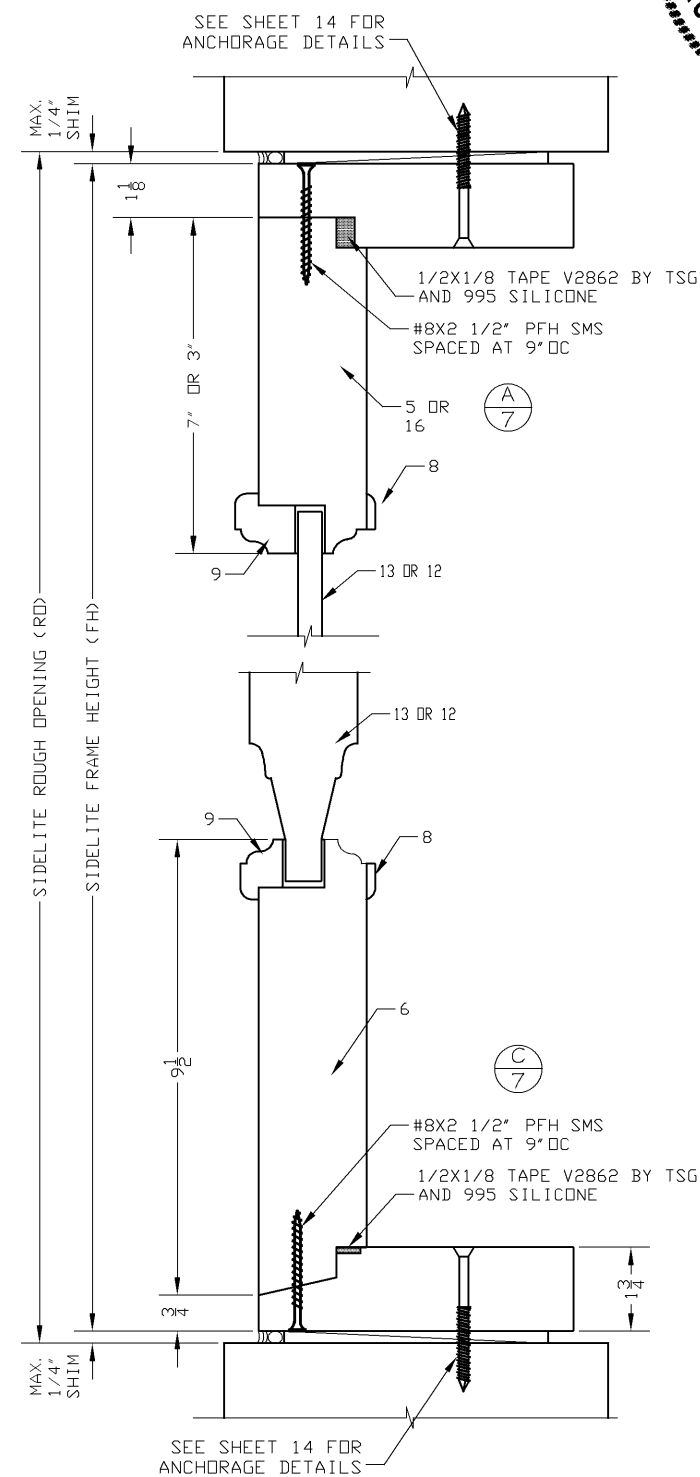
MANUFACTURER:
CUSTOM DOORS
222 NE 27TH STREET
MIAMI- FLORIDA- 33137
TEL: (561) 939-3368
FAX: (877) 839-2220

SCALE:
NA
DATE:
10/19/2023
DRAWING #
23-202
SHEET
7 OF 16

MODELS 3 AND 6 - SECTIONS



** FBC SECTION 24 I 1.3.3.1 FOR EACH FIXED GLASS SILL WITH WIDTH MORE THAN 3 FEET TO HAVE TWO APPROVED NEOPRENE SETTING BLOCKS 70-90 SHORE A DUROMETER HARDNESS



Pedro De Figueiredo
10/19/2023

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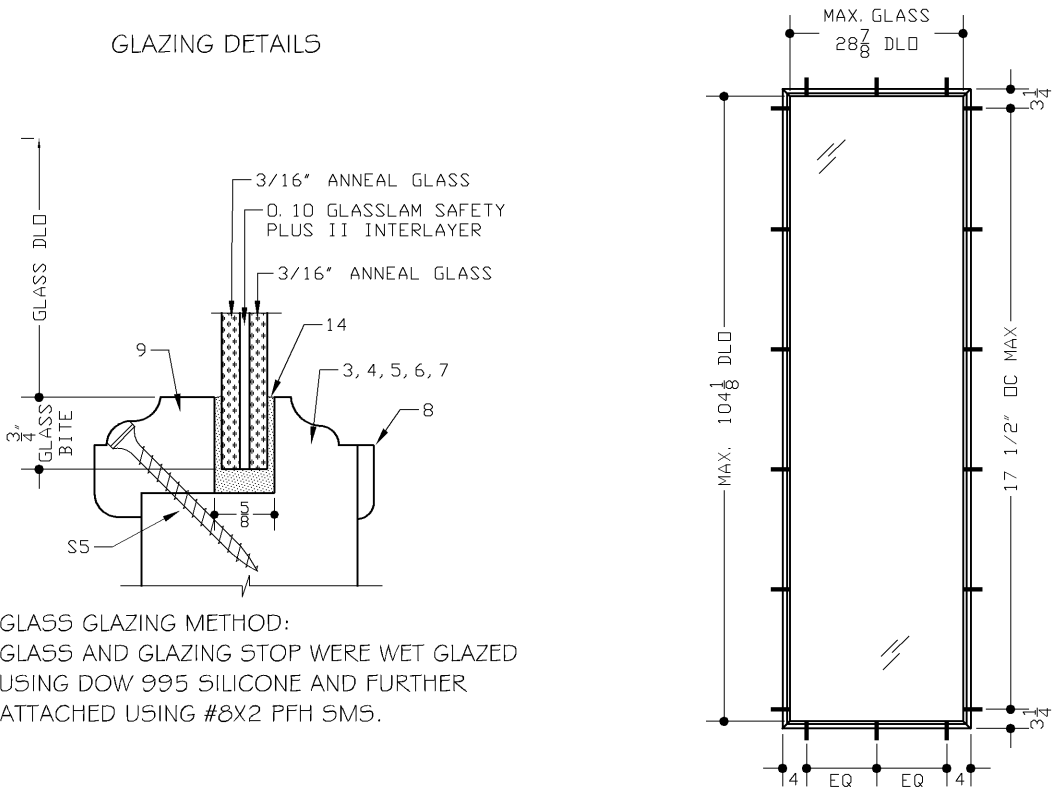
PRODUCT:
CUSTOM SERIES
OUTSWING DOORS
LARGE & SMALL MISSILE
IMPACT RATED

MANUFACTURER:
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MIAMI- FLORIDA- 33137
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FAX: (877) 839-2220

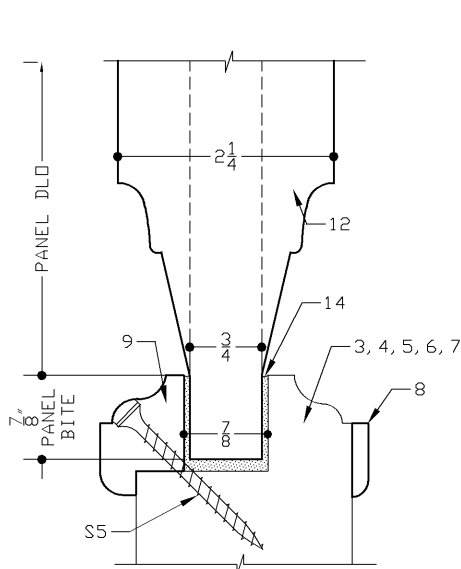
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10/19/2023
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23-202
SHEET
8 OF 16

MODELS 1, 2, 3 AND 4 - BILL OF MATERIALS & GLAZING DETAILS

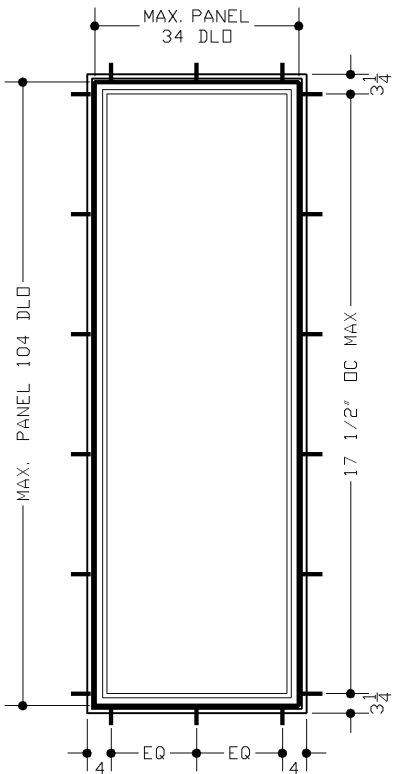
GLAZING DETAILS



GLASS GLAZING METHOD:
GLASS AND GLAZING STOP WERE WET GLAZED
USING DOW 995 SILICONE AND FURTHER
ATTACHED USING #8X2 PFH SMS.



WOOD PANEL GLAZING METHOD:
PANEL AND GLAZING STOP WERE WET GLAZED
USING DOW 995 SILICONE AND FURTHER
ATTACHED USING #8X2 PFH SMS.



BILL OF MATERIALS:

PART#	DESCRIPTION	MATERIAL
1	6 5/8 X 1 3/4 HEADER/ JAMB	LAMINATED WOOD
2	6 5/8 X 1 3/4 SILL	SOLID WOOD
3	7 X 2 1/4 HINGE STILE	BUTCHED BLOCK W/ VENEER
4	7 X 2 1/4 LOCK STILE	BUTCHED BLOCK W/ VENEER
5	7 X 2 1/4 TOP RAIL	BUTCHED BLOCK W/ VENEER
6	9 3/8 X 2 1/4 BOTTOM RAIL	BUTCHED BLOCK W/ VENEER
7	7 X 2 1/4 INTERMEDIATE RAIL	BUTCHED BLOCK W/ VENEER
8	3/4 X 3/16 INSIDE MOULDING	SOLID WOOD
9	1 1/4 X 1 1/8 GLAZING STOP	SOLID WOOD
10	1 1/2 X 5/8 INACTIVE ASTRAGAL	SOLID WOOD
11	1 3/4 X 1 1/4 ACTIVE ASTRAGAL	LAMINATED WOOD
12	2 1/4" LAMINATED WD PANEL	LAMINATED WOOD
13	1/2" IMPACT GLASS	LAMINATED ANNEAL GLASS
14	DOW CORNING 995	STRUCTURAL SILICONE
15	1.22X.51 WEAR STRIP	ALUMINUM
16	1 1/2 X 3/4 DRIP CAP	SOLID WOOD
16.1	2.3X3 TRANSOM SASH	BUTCHED BLOCK W/ VENEER

ASSEMBLY SCREWS & NAILS:

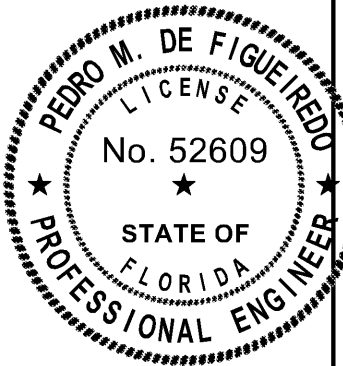
PART#	DESCRIPTION	MATERIAL
S1	#10 X 3" PFH SMS	ZINC PLATED STEEL
S2	#6 X 1 1/4" PFH SMS	ZINC PLATED STEEL
S3	18 GA X 1" BRAD NAIL	GALVANIZED STEEL
S4	#6 X 1 1/2" PFH SMS	ZINC PLATED STEEL
S5	#8 X 2" PFH SMS	ZINC PLATED STEEL
S6	#12 X 1 1/4" PFH SMS	ZINC PLATED STEEL
S7	#12 X 3" PFH SMS	ZINC PLATED STEEL
S8	#8 X 1 1/2" PFH SMS	ZINC PLATED STEEL
S9	#10 X 2" PFH SMS	ZINC PLATED STEEL

DOOR HARDWARE:

PART#	DESCRIPTION	MATERIAL
H1	CUSTOM 4 POINT LOCK	STEEL
H2	4.5X4.5 CUSTOM HINGES	SOLID BRASS
H3	CUSTOM SURFACE BOLTS	STEEL
H4	1 1/8"X2"X1 1/2 GA STRIKE PLATE	STAINLESS STEEL

DOOR WEATHER STRIPPING:

PART#	DESCRIPTION	MATERIAL
W1	QEBD 650 KERF	BY SCHLEGEL
W2	BULB VINYL	NEOPRENE
W3	QE2D 320 FLAT	BY SCHLEGEL



Pedro De Figueiredo
10/19/2023



PRODUCT:
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OUTSWING DOORS
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IMPACT RATED

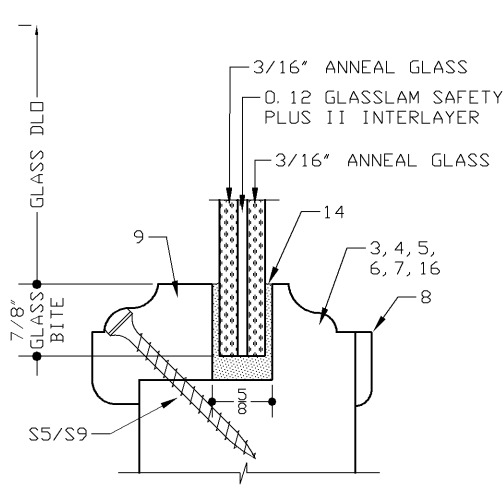
MANUFACTURER:
CUSTOM DOORS
222 NE 27TH STREET
MIAMI- FLORIDA- 33137
TEL: (561) 939-3368
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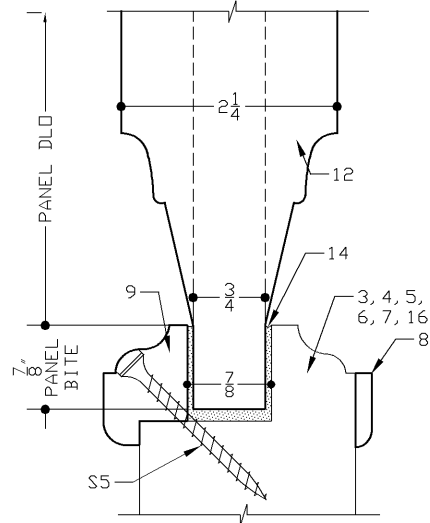
MODELS 6 - BILL OF MATERIALS & GLAZING DETAILS

GLAZING DETAILS

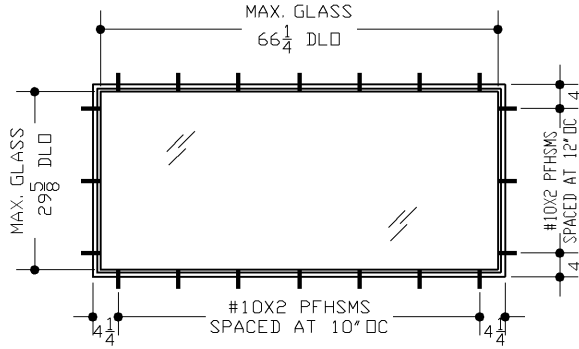


GLASS GLAZING METHOD:
GLASS AND GLAZING STOP WERE WET GLAZED
USING DOW 995 SILICONE AND FURTHER
ATTACHED USING #8X2 PFH SMS.

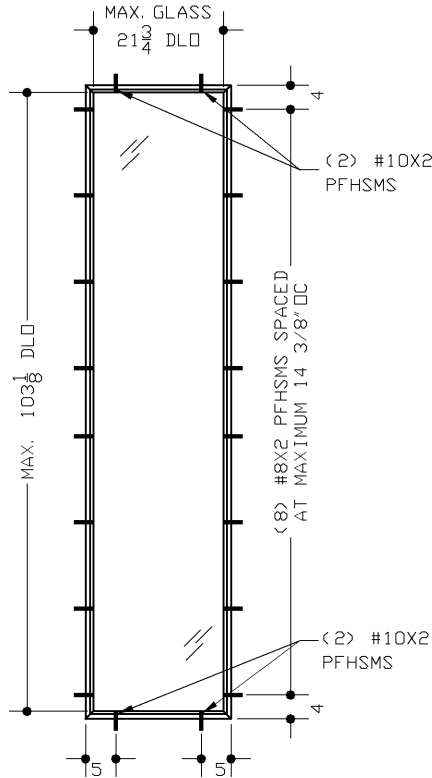
GLAZING DESIGN COMPLIANT W/ ASTM E1300



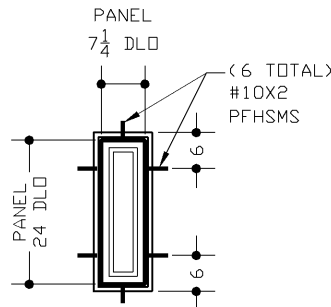
WOOD PANEL GLAZING METHOD:
PANEL AND GLAZING STOP WERE WET GLAZED
USING DOW 995 SILICONE AND FURTHER
ATTACHED USING #8X2 PFH SMS.



TRANSOM GLAZING



DOOR GLAZING



DOOR WOOD
PANEL

BILL OF MATERIALS:

PART#	DESCRIPTION	MATERIAL
1	6 5/8 X 1 3/4 HEADER/ JAMB	LAMINATED WOOD
2	6 5/8 X 1 3/4 SILL	SOLID WOOD
3	7 X 2 1/4 HINGE STILE	BUTCHED BLOCK W/ VENEER
4	7 X 2 1/4 LOCK STILE	BUTCHED BLOCK W/ VENEER
5	7 X 2 1/4 TOP RAIL	BUTCHED BLOCK W/ VENEER
6	9 3/8 X 2 1/4 BOTTOM RAIL	BUTCHED BLOCK W/ VENEER
7	7 X 2 1/4 INTERMEDIATE RAIL	BUTCHED BLOCK W/ VENEER
8	3/4 X 3/1 6 INSIDE MOULDING	SOLID WOOD
9	1 1/4 X 1 1/8 GLAZING STOP	SOLID WOOD
10	1 1/2 X 5/8 INACTIVE ASTRAGAL	SOLID WOOD
11	1 3/4 X 1 1/4 ACTIVE ASTRAGAL	LAMINATED WOOD
12	2 1/4" LAMINATED WD PANEL	LAMINATED WOOD
13	1/2" IMPACT GLASS	LAMINATED ANNEAL GLASS
14	DOW CORNING 995	STRUCTURAL SILICONE
15	1.22X.51 WEAR STRIP	ALUMINUM
16	1 1/2 X 3/4 DRIP CAP	SOLID WOOD
16.1	2.3X3 TRANSOM SASH	BUTCHED BLOCK W/ VENEER

ASSEMBLY SCREWS & NAILS:

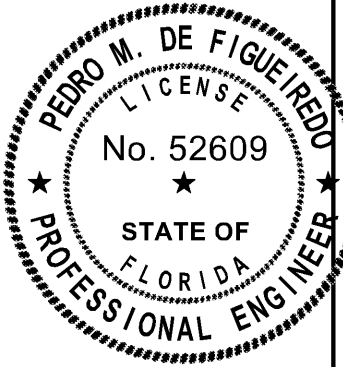
PART#	DESCRIPTION	MATERIAL
S1	#10 X 3" PFH SMS	ZINC PLATED STEEL
S2	#6 X 1 1/4" PFH SMS	ZINC PLATED STEEL
S3	18 GA X 1" BRAD NAIL	GALVANIZED STEEL
S4	#6 X 1 1/2" PFH SMS	ZINC PLATED STEEL
S5	#8 X 2" PFH SMS	ZINC PLATED STEEL
S6	#12 X 1 1/4" PFH SMS	ZINC PLATED STEEL
S7	#12 X 3" PFH SMS	ZINC PLATED STEEL
S8	#8 X 1 1/2" PFH SMS	ZINC PLATED STEEL
S9	#10 X 2" PFH SMS	ZINC PLATED STEEL

DOOR HARDWARE:

PART#	DESCRIPTION	MATERIAL
H1	CUSTOM 4 POINT LOCK	STEEL
H2	4.5X4.5 CUSTOM HINGES	SOLID BRASS
H3	CUSTOM SURFACE BOLTS	STEEL
H4	1 1/8"X2"X1 1 GA STRIKE PLATE	STAINLESS STEEL

DOOR WEATHER STRIPPING:

PART#	DESCRIPTION	MATERIAL
W1	QEBD 650 KERF	BY SCHLEGEL
W2	BULB VINYL	NEOPRENE
W3	QE2D 320 FLAT	BY SCHLEGEL



Pedro De Figueiredo
10/19/2023

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PRODUCT:
CUSTOM SERIES
OUTSWING DOORS
LARGE & SMALL MISSILE
IMPACT RATED

MANUFACTURER:
CUSTOM DOORS
222 NE 27TH STREET
MIAMI- FLORIDA- 33137
TEL: (561) 939-3368
FAX: (877) 839-2220

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NA
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10/19/2023
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10 OF 16

6 ⁹/₁₆

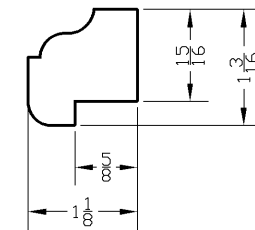
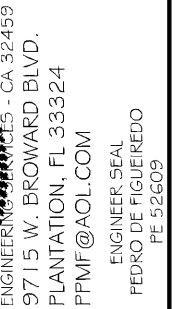
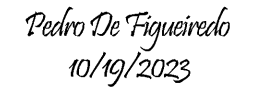
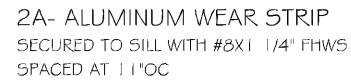
1

4 ¹/₄

2

6 ¹/₄

1 - HEADER / JAMB
LAMINATED MAHOGANY WOOD
OR SOLID MAHOGANY WOOD



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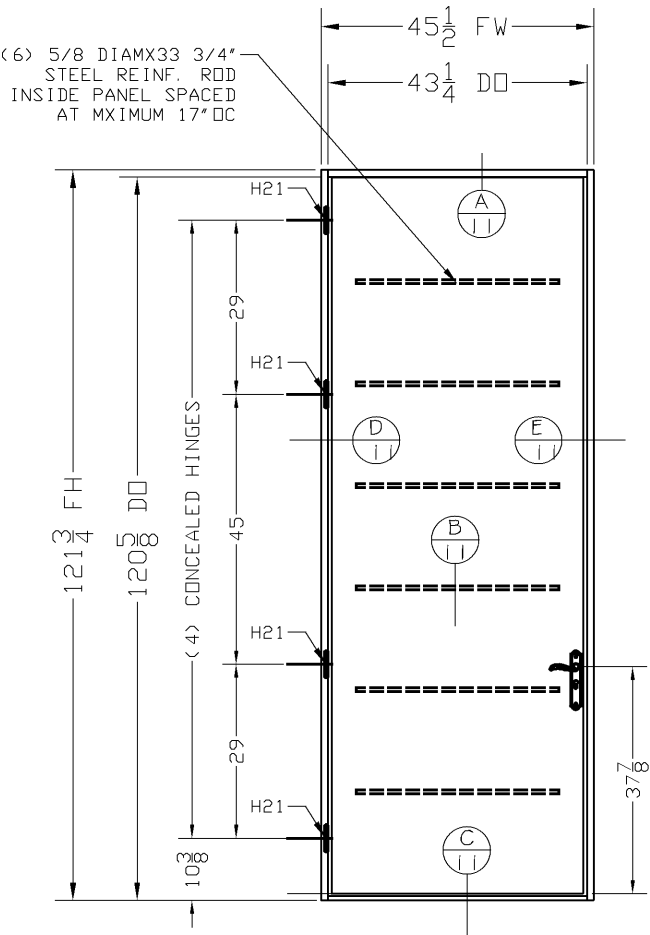
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DATE:
10/19/2023

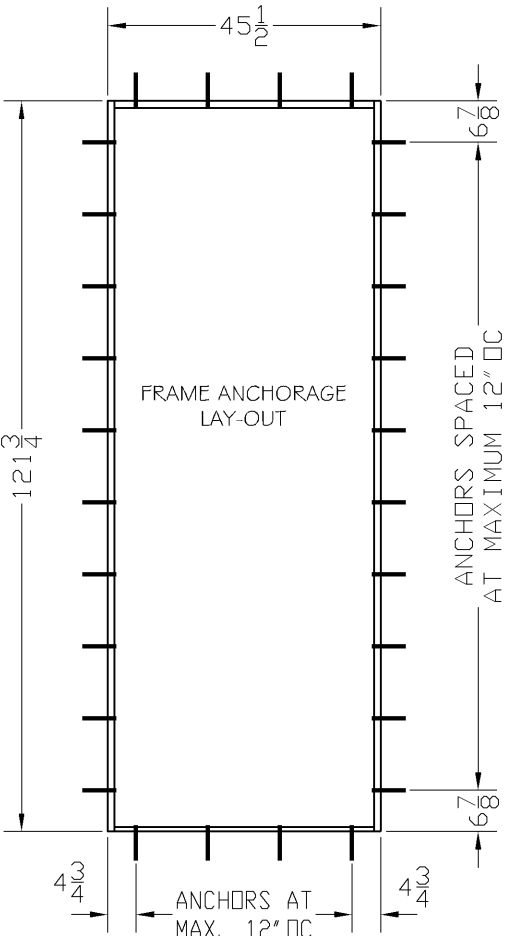
DRAWING #
23-202

SHEET
11 OF 16

MODEL 5

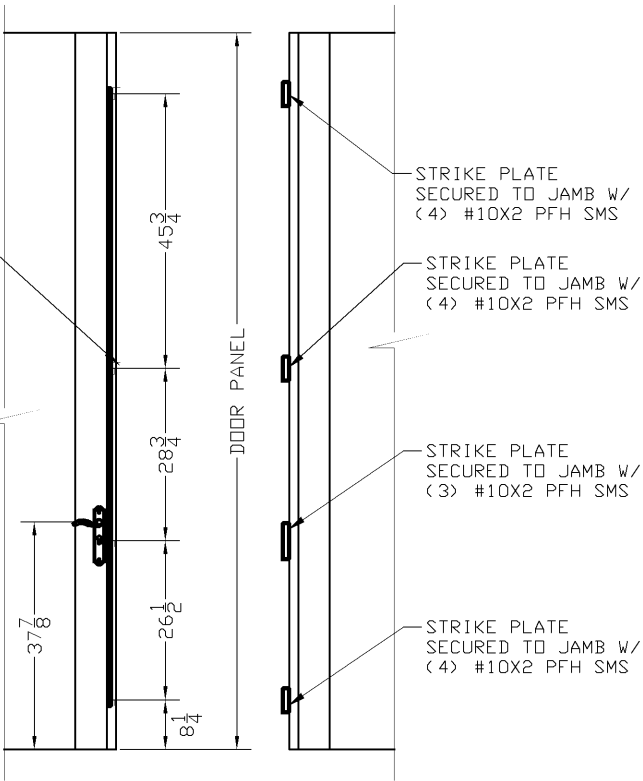


EXTERIOR SIDE ELEVATION
RECTANGULAR TYPE SINGLE DOOR X
BUTCHER BLOCK ONE SLAB CONSTRUCTION

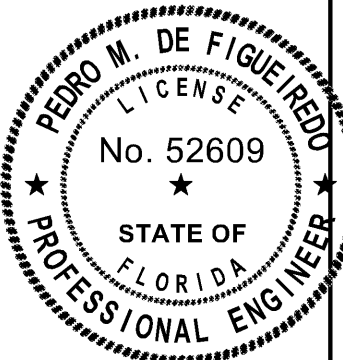


SEE SHEET 14 TO SELECT ANCHOR OPTIONS

4 POINT LOCK MODEL 5000 BY VACHETTE INSTALLED TO THE ACTIVE LEAF. THE MAIN LOCK WAS LOCATED AT 37 7/8" FROM THE BOTTOM. LOCK WAS SECURED BY (15) #6X2 PFH SMS SPACED AT 8" OC AVERAGE.



Pedro De Figueiredo
10/19/2023



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OUTSWING DOORS
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SHEET
12 OF 16

MODEL 4
RECTANGULAR BUTCHER BLOCK SLAB SWING-OUT
SINGLE DOOR X: (MAX. 45 1/2" X 121 3/4")
PD= +65 PSF, -65 PSF

OPERATING FORCE
WATER RESISTANCE: ASTM E331, 11.25 PSF
(15% OF +75 PSF)
AIR INFILTRATION: ASTM E283
FORCE ENTRY: ASTM F588

A1

A2

A3

A4

ALTERNATE DOOR PANELS

NOTES:

1- ILLUSTRATED ABOVE IS JUST FOR A FEW VARIATIONS OF MANY POSSIBLE COMBINATIONS.

2- COMBINATIONS OF ALTERNATE DOOR PANELS ARE ACCEPTABLE IF DESIGN ARE MADE WITH SURFACE APPLIED MOLDING OVER THE MAIN 2-1/4" BUTCHER BLOCK SLAB OR VENEER GROOVING.

HARDWARE NOTES:

- 1- DOOR LOCK: A (4) POINT LOCKING MECHANISM MODEL 5000 BY VACHETTE, WAS INSTALLED ON THE LEAF. EACH POINT LOCK PROTRUDED 1 3/16" AND WERE LOCATED AS PER ILLUSTRATION ABOVE. THE MAIN LATCH WAS LOCATED AT 37 7/8" FROM THE BOTTOM OF THE LEAF. THE FOUR POINT LOCK ASSEMBLY WAS ATTACHED TO THE LEAF USING (15) #6X2 PFH SMS 1 1/2" FROM THE BOTTOM AND 7 5/8" OC AVERAGE.
- 2- STRIKE PLATES: THE STRIKE PLATES WERE INSTALLED AT THE LOCATIONS CORRESPONDING TO THE LOCK POINTS. EACH STRIKE PLATE WAS ATTACHED TO THE FRAME JAMB USING (4) #10X2" PFH SMS EXCEPT THE STRIKE PLATE CORRESPONDING TO THE LATCH LOCK OR 2ND POINT FROM THE BOTTOM WHICH ONLY USED (3) #10X2" PFH SMS
- 3- HINGES: (4) PIVOTA DX 300 3-D CP SAFE HINGES BY BASYS WERE ATTACHED TO THE DOOR LEAF AS PER ELEVATION. THE HINGES WERE SECURED TO THE DOOR JAMBS WITH (4) SCREWS ((2) #12X1 1/2" PFH SMS AND (2) 1/4 X 3 1/4") AND SECURED TO THE LEAF WITH (4) 1/4X2 1/2" PFH SMS.
- 4- REINFORCEMENT: (6) 5/8" DIAMETER X 33 3/4" LONG STEEL RODS LOCATED AS PER ELEVATION INSTALLED IN THE BUTCHER BLOCK CONSTRUCTED AREA.

PEDRO M. DE FIGUEIREDO
 LICENSE
 No. 52609
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

ENGINEERING & CONSTRUCTION - CA 32450
9715 W. BROWARD BLVD.
PLANTATION, FL 33324
PPMF@AOL.COM
ENGINEER SEAL
PEDRO DE FIGUEIRO
PE 52609



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OUTSWING DOORS
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23-202

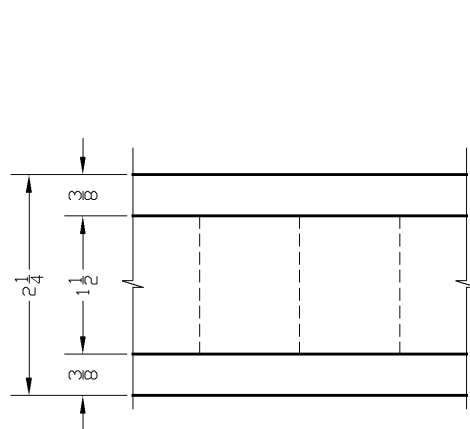
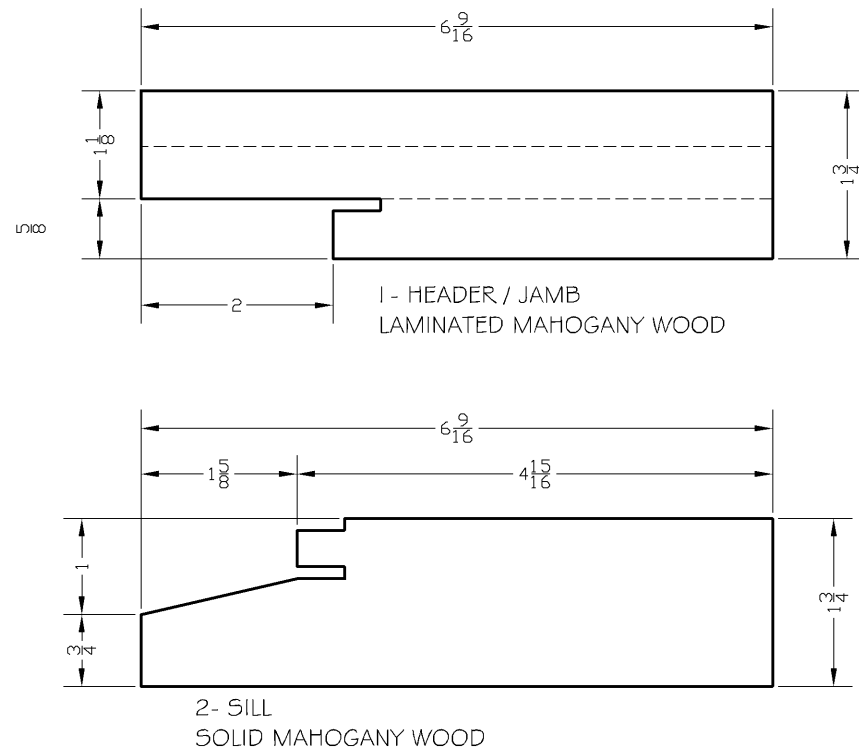
SHEET
3 OF 16

PART#	DESCRIPTION	MATERIAL
1	6 5/8 X 1 3/4 HEADER/ JAMB	LAMINATED WOOD
2	6 5/8 X 1 3/4 SILL	SOLID WOOD
12.1	2 1/4" BUTCHER BLOCK PANEL	BUTCHER BLOCK WOOD
15	1.22 X .51 WEAR STRIP	ALUMINUM

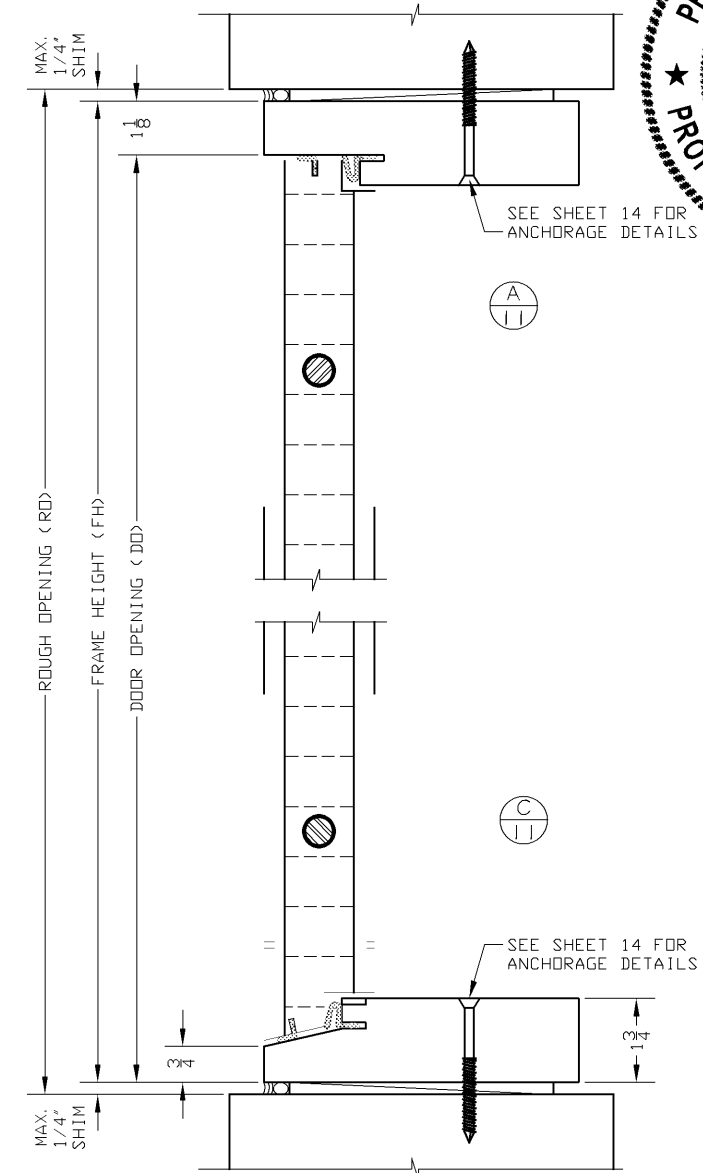
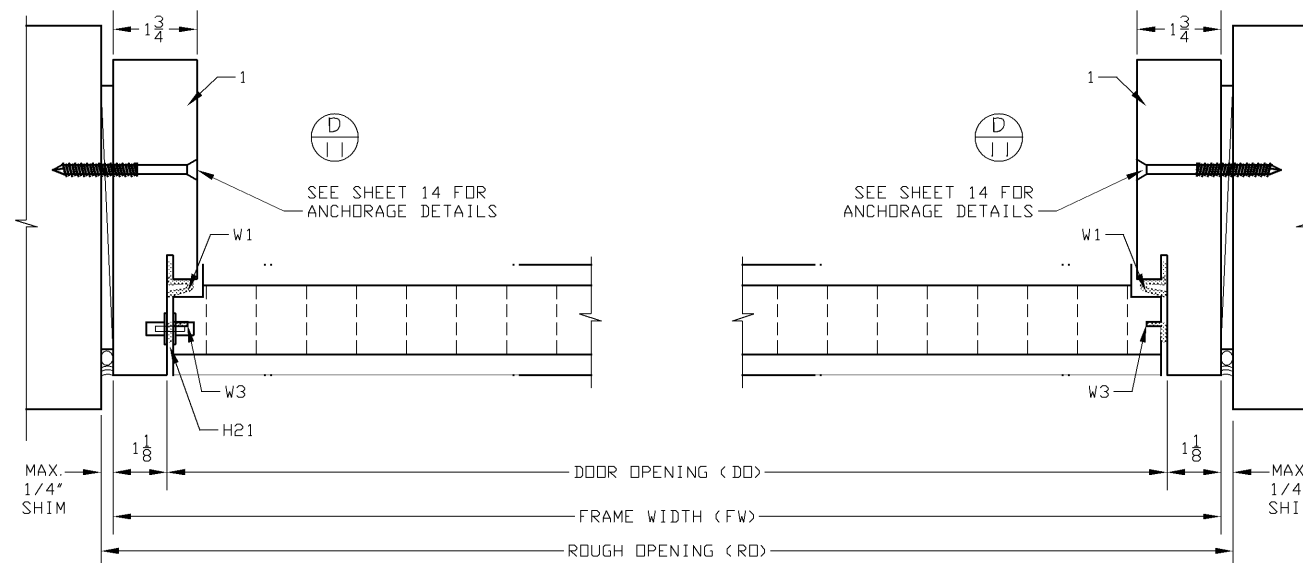
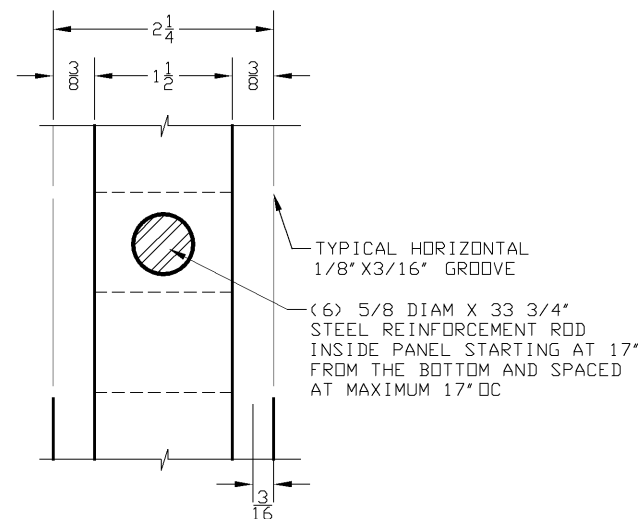
PART#	DESCRIPTION	MATERIAL
S1	#10 X 3" PFH SMS	ZINC PLATED STEEL
S9	#10 X 2" PFH SMS	ZINC PLATED STEEL
S10	#12 X 1 1/2" PFH SMS	ZINC PLATED STEEL
S11	1/4" X 3 1/4" PFH SMS	ZINC PLATED STEEL
S12	1/4" X 2 1/2" PFH SMS	ZINC PLATED STEEL
S13	#6 X 2" PFH SMS	ZINC PLATED STEEL

PART#	DESCRIPTION	MATERIAL
H11	MODEL 5000 BY VACHETTE	STEEL
H21	PIVOTA DX 300 3-D CP HINGES	BY BASYS

PART#	DESCRIPTION	MATERIAL
W1	QEBD 650 KERF	BY SCHLEGEL
W3	QEZD 320 FLAT	BY SCHLEGEL



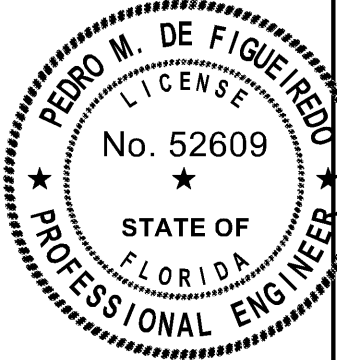
12.1- DOOR PANEL W/OUT RAILS/ STILES
WOOD PANEL CONTRUCTION
CENTER 1 3/8" BUTCHED BLOCK
EXTERIOR/ INTERIOR MAHOGANY VENEER



Pedro De Figueiredo
10/19/2023

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MODELS 1, 2, 3, 4, 5 AND 6 - FRAMING ANCHORAGE



Pedro De Figueiredo
10/19/2023

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
PEDRO DE FIGUEIREDO ON THE DATE INDICATED HERE.

ENGINEER
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9715 W. BROWARD BLVD.
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PPMF@AOL.COM
ENGINEER SEAL
PEDRO DE FIGUEIREDO
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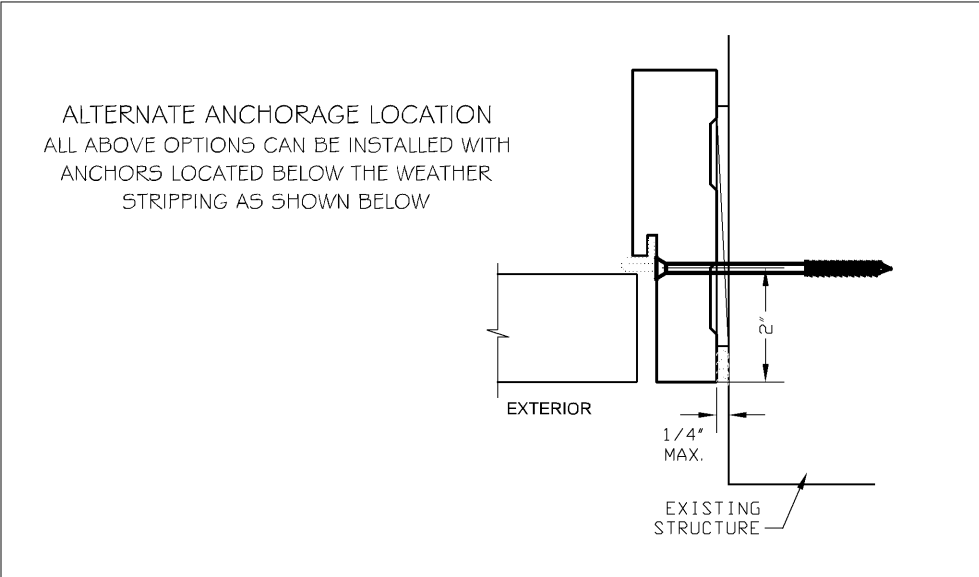


PRODUCT:
CUSTOM SERIES
OUTSWING DOORS
LARGE & SMALL MISSILE
IMPACT RATED

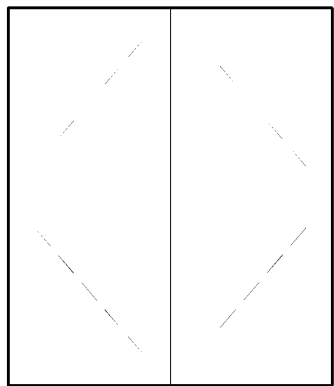
MANUFACTURER:
CUSTOM DOORS
222 NE 27TH STREET
MIAMI- FLORIDA- 33137
TEL: (561) 939-3368
FAX: (877) 839-2220

SCALE:
NA
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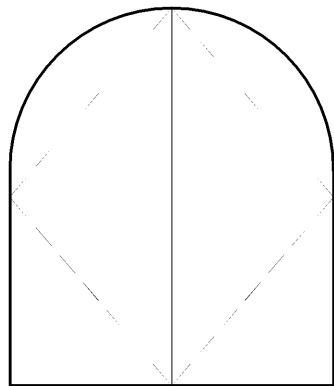
FRAMING ANCHORAGE DETAILS			
OPTION 1 FRAME MOUNTED DIRECTLY INTO SUBSTRATE WITH MAXIMUM 1/4" SHIM AND 1/4" ULTRACONS BY ELCO WITH 1 3/4" MIN. EMBEDMENT INTO GROUT FILLED MASONRY (JAMBS) OR INTO 3000 PSI CONCRETE (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT)	OPTION 2 FRAME MOUNTED WITH MAXIMUM 1/4" SHIM AND MAXIMUM 1X PT CONTINUOUS WOOD SPACER SECURED BY 1/4" ULTRACONS BY ELCO WITH 1 3/4" MIN. EMBEDMENT INTO GROUT FILLED MASONRY (JAMBS) OR INTO 3000 PSI CONCRETE. FOR INSTALLATION INTO METAL STRUCTURES USE 1/4-20 HWH GRADE 5 SDS (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT) 1X BUCK TO BE PROPERLY DESIGNED BY OTHERS.	OPTION 3 FRAME MOUNTED DIRECTLY INTO 2X PT WOOD BUCK (SG >= 0.55) W/ MAX. 1/4" SHIM AND SECURED BY #14 SS WOOD SCREWS OR 1/4" ULTRACONS WITH 1 3/8" MIN. EMBEDMENT. (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT) 2X BUCK TO BE PROPERLY DESIGNED BY OTHERS.	OPTION 4 FRAME MOUNTED DIRECTLY INTO METAL STRUCTURES W/ MAX. 1/4" SHIM. 1/4"-20 PFH SDS GR 5 INTO MIN. 1/8" A36 STEEL OR 6063-T6 ALUMINUM. (REFER TO ELEVATIONS FOR ANCHORS QTY. AND LAY-OUT)



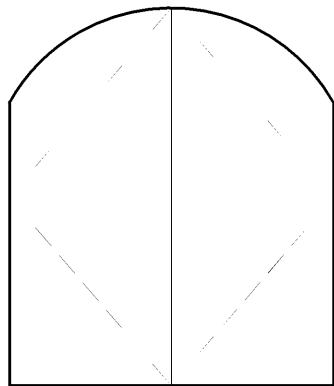
QUALIFIED FRAME AND PANELS CONFIGURATIONS



RECTANGULAR XX
74X122



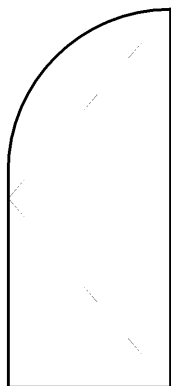
ARCHED XX
74X122



ELLIPTICAL XX
74X122



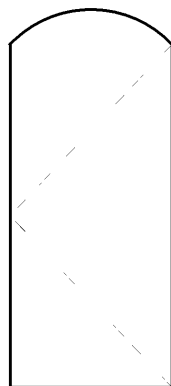
RECTANGULAR X
38X122



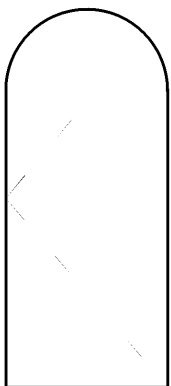
1/2 ARCHED X
38X122



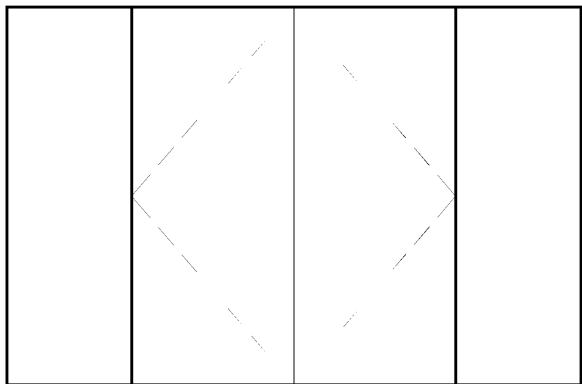
1/2 ELLIPTICAL X
38X122



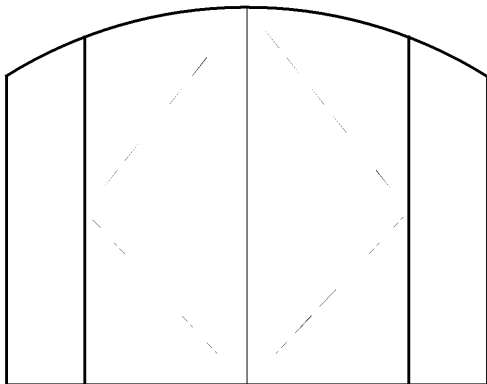
ELLIPTICAL X
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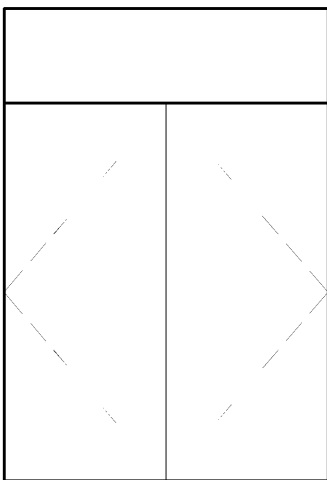
ARCHED X
38X122



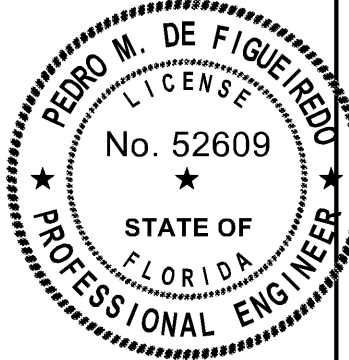
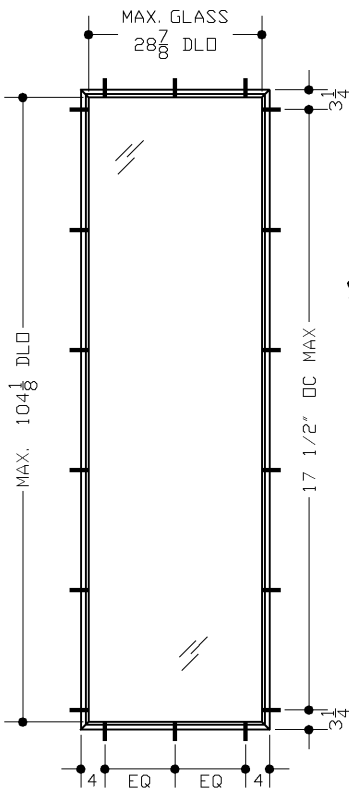
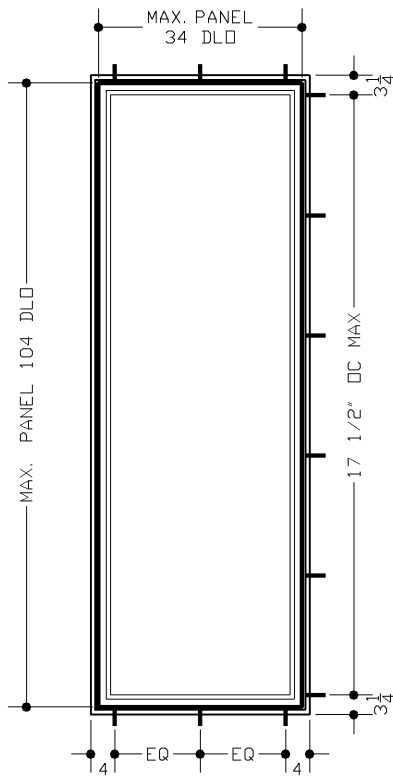
RECTANGULAR
PAIR O-XX-O -154X122
SINGLE O-X-O -118X122



ARCHED OR ELLIPTICAL O-XX-O
PAIR O-XX-O -154X122
SINGLE O-X-O -118X122

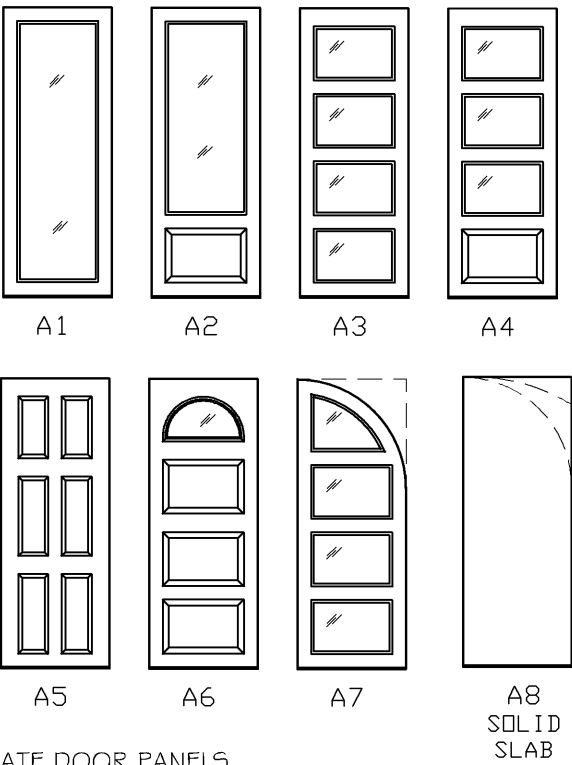


RECTANGULAR W/ TRANSOM
PAIR XX-O -74 1/2 X160 3/8
SINGLE X-O -38 3/8X160 3/8



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ALTERNATE DOOR PANELS
NOTES:
1- THESE ARE JUST FOR A FEW VARIATIONS OF MANY POSSIBLE COMBINATIONS.
2- COMBINATIONS OF ALTERNATE DOOR PANELS ARE ACCEPTABLE IF GLASS DLO AREA AND DLO WOOD PANEL AREA NOT TO EXCEED THE SIZES LISTED ABOVE:

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ENGINEER SEAL
PEDRO DE FIGUEIREDO
PE 52609

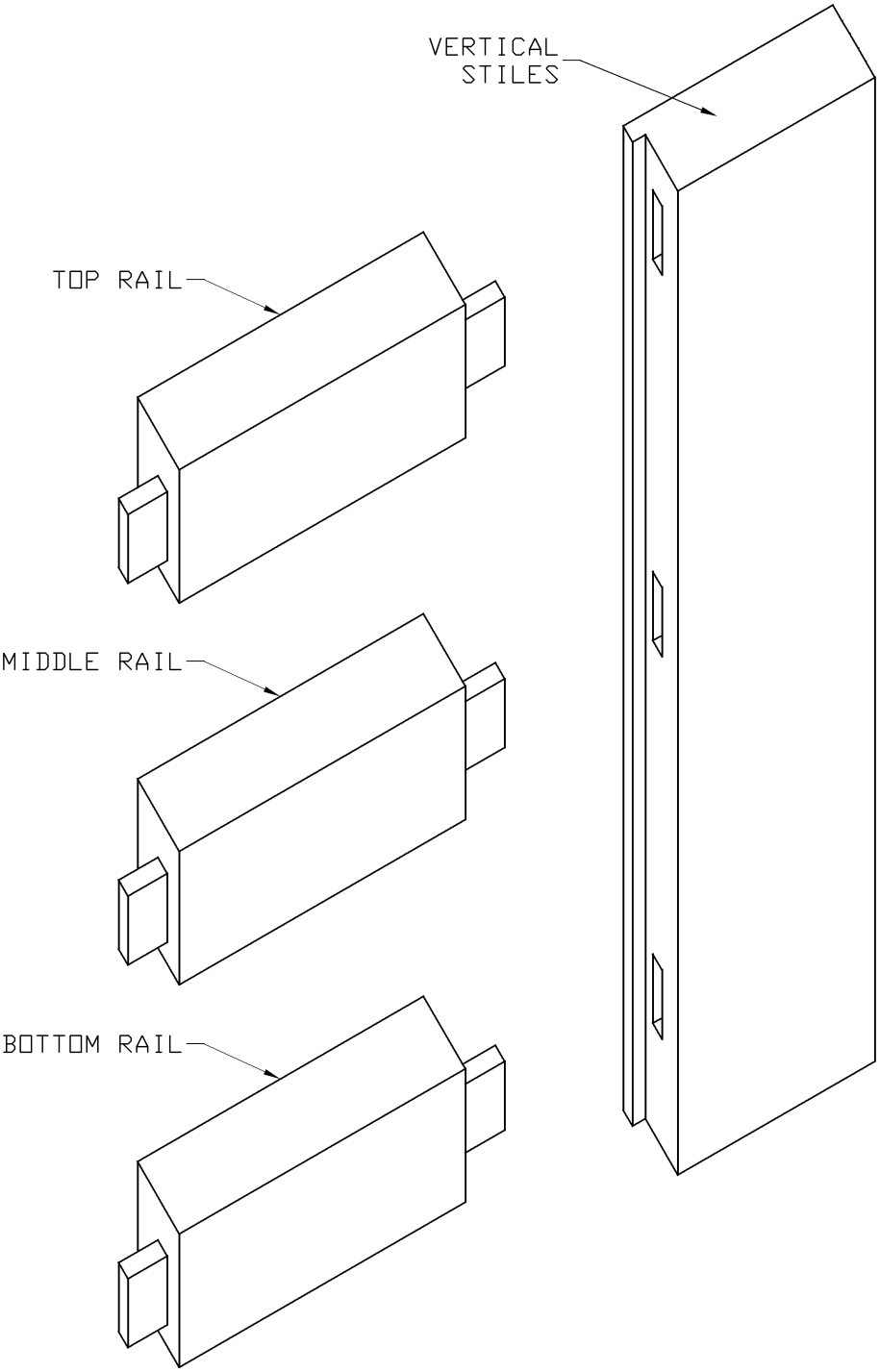


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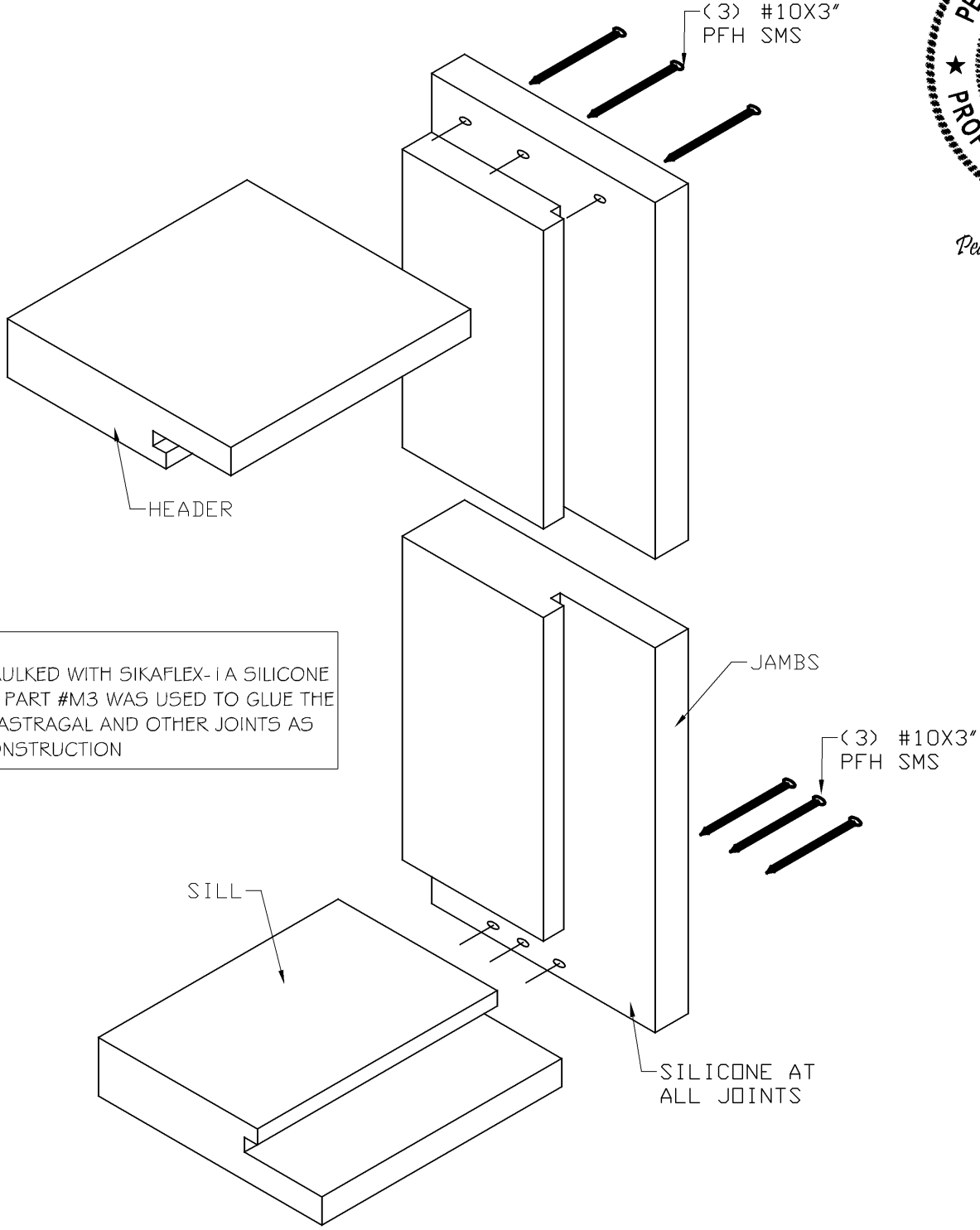
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DOOR SASH AND FRAME ASSEMBLY



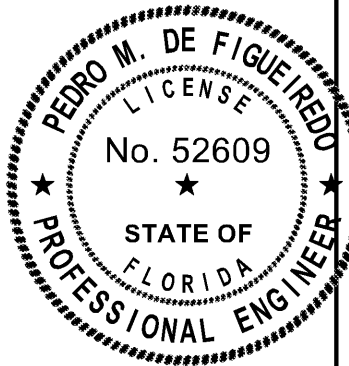
SASH CONSTRUCTION:

THE TOP, BOTTOM AND INTERIOR RAILS WERE RABBET AND BUTT JOINED WITH A 5 X 0.70X2" LONG MORTISE AND (5" - 8 1/2") X 3/4 X (2"-2 7/8") LONG TENON TO THE HINGE AND LOCK STILES USING GLUE. THE ASTRAGAL FOR INACTIVE LEAF WAS FIRST NAILED USING 18GA X1 BRAD NAILS AND GLUE FURTHER SECURED TO THE LOCK STILE USING (9) #6X1 1/2 PFH SMS AT 13 1/2"OC IN THE FIELD. THE ASTRAGAL FOR ACTIVE LEAF WAS FIRST NAILED USING 18GA X1 BRAD NAILS AND GLUE FURTHER SECURED TO THE LOCK STILE USING (10) #8X2" PFH SMS AT 12"OC IN THE FIELD. A DECORATIVE MOLDING WAS ATTACHED AROUND THE INTERIOR GLAZING AREAS USING 18GA X1 BRAD NAILS. THE RECESSES WERE MADE TO ACCEPT WEATHER STRIP AS DESCRIBED LATER IN THE REPORT.



FRAME CONSTRUCTION:

THE JAMBS WERE RABBET AND BUTT JOINED WITH SILL AND HEADER USING (3) #10X3" PFH SMS IN EACH CORNER AND SEALED USING SILICONE. THE JAMBS, HEADER AND SILL HAD A NOTCH CUT-OUT TO ALLOW THE PLACEMENT OF THE WEATHERSTRIPPING. AN ALUMINUM BAR WAS ATTACHED TO THE SILL TOWARD THE EXTERIOR EDGE AS WEAR STRIP AND ATTACHED BY USING #6X1 1/4 SS PFH SMS AT 6 1/4" OC.



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