BORANO DOOR SERIES

OUTSWING WOOD DOORS

FLORIDA STATE APPROVAL

CODE VERSION: FLORIDA BUILDING CODE 2017 - 6th EDITION

APPROVED FOR USE INSIDE HVHZ AND OUTSIDE HVHZ

CATEGORY: EXTERIOR DOORS -- SUBCATEGORY: SWINGING EXTERIOR DOOR ASSEMBLY

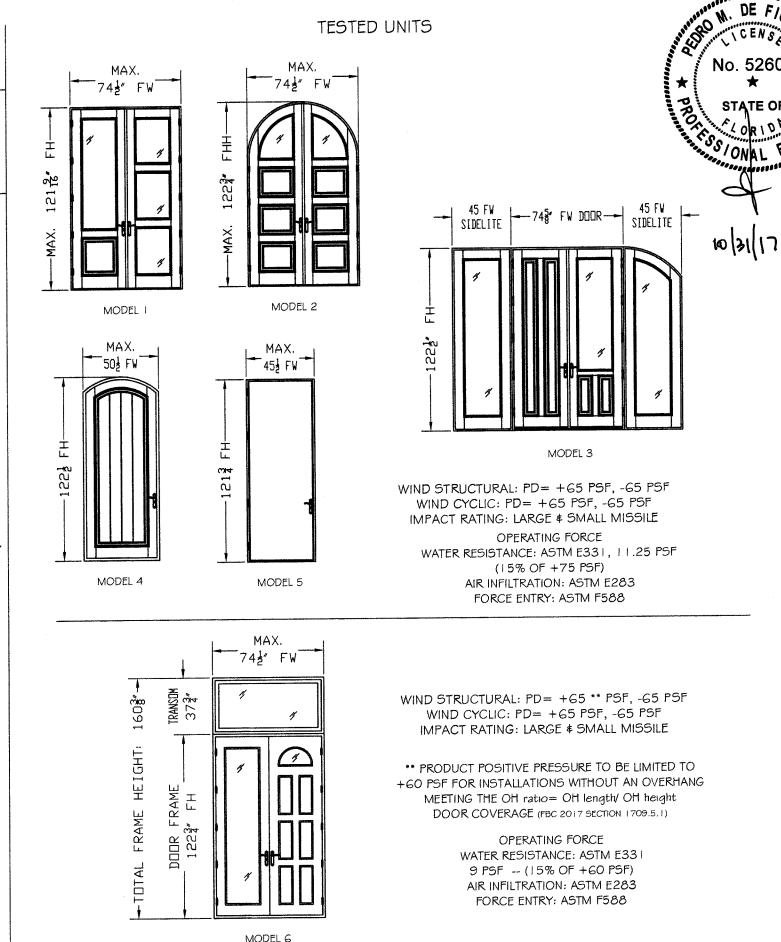
IMPACT RESISTANT: LARGE MISSILE

GENERAL NOTES:

- 1 CODE: THIS PRODUCT HAS BEEN TESTED UNDER PROTOCOLS TAS 201, 202 AND 203 AND DESIGNED IN ACCORDANCE WITH THE FBC 2017 6TH 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 7-10 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 DESIGN PRESSURES, AS DETERMINED FROM ASCE 7-10. 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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BORANO INC 222 NE 27TH STREET MIAMI- FLORIDA- 33 I 3' TEL.:(677) 939-3368

DRAFTING & MORE INC

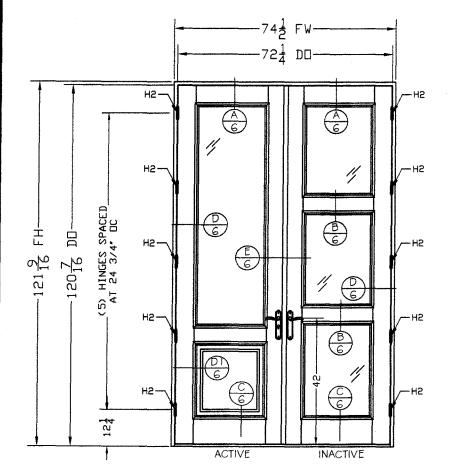
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10/31/2017 DRAWING #

> 17-707 SHEET 1 OF 14

MODEL I



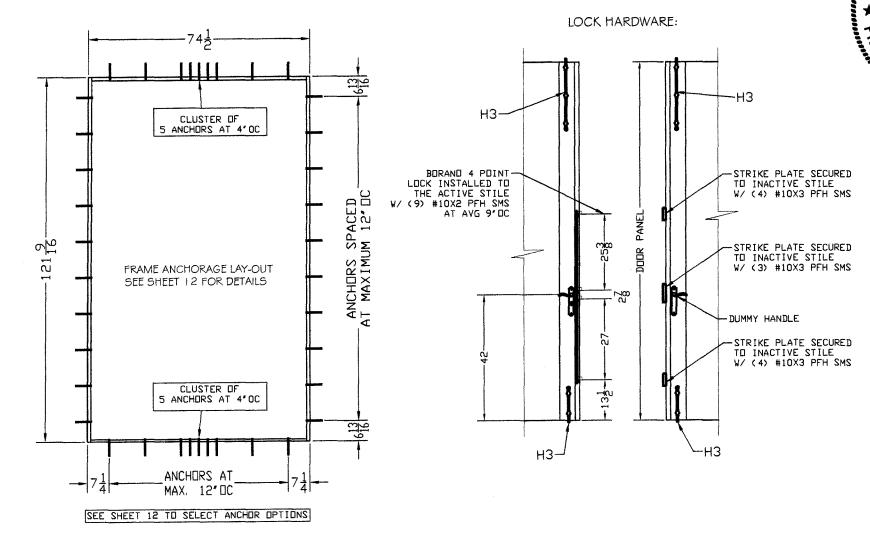
EXTERIOR SIDE ELEVATION
RECTANGULAR TYPE PAIR DOOR XX

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:

I - SURFACE BOLTS: (4) SURFACE BOLTS BY BORANO 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 | 1/8X2X! | GA 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, BORANO # H I 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) # I OX2 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 BORANO PART# H-2 WERE ATTACHED TO THE DOOR FRAME AND DOOR LEAVES USING (2) #12X3 / (2) #12X | 1/4 PFH SMS AND WERE ATTACHED TO THE DOOR LEAF USING (4) #12X3 PFH SMS.

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| 222 NE 27TH STREET |
| MIAMI- FLORIDA- 33137 |
| TEL.:(561) 939-3368 |
| FAX::(677) 839-2200

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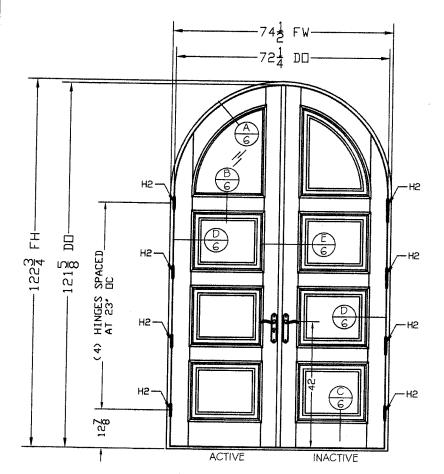
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PRODUCT:
BORANO SER
OUTSWING DOORS
LARGE & SMALL MISSILE
MPACT RATED

MODEL 2

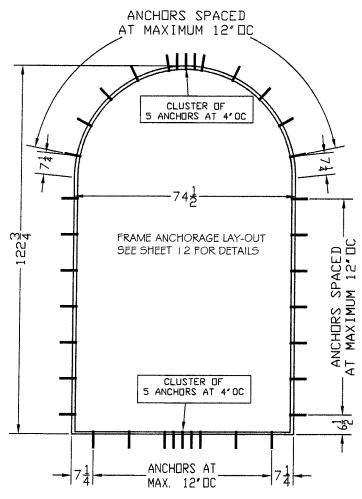


EXTERIOR SIDE ELEVATION ARCHED TYPE PAIR DOOR XX

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



SEE SHEET 12 TO SELECT ANCHOR OPTIONS

WERE GLUE AND ATTACHED W/ * (3) #12X3 SS PFH SMS AND LOCK HARDWARE: -(4) #10X 1 1/2" SS PFH SM STRIKE PLATE SECURED TO INACTIVE STILE W/ (4) #10X2 PFH SMS BORANO 4 POINT STRIKE PLATE SECURED LOCK INSTALLED TO THE ACTIVE STILE W/ (13) #10X2 PFH SMS TO INACTIVE STILE W/ (4) #10X2 PFH SMS AT AVG 8" CC STRIKE PLATE SECURED 200 TO INACTIVE STILE W/ (3) #10X2 PFH SMS 3₽₩ DUMMY HANDLE STRIKE PLATE SECURED TO INACTIVE STILE W/ (4) #10X3 PFH SMS -H4 W/ 1/2" DIAMX2"LONG SHEAR PIN W/ 3/4" THROW. 11GA SS REINF. PLATE W/ A GUIDE SHEAR ROD. THE PLATE WERE GLUE AND ATTACHED W/ (3) #12X3 SS PFH SMS AND (4) #10X 1 1/2" SS PFH SMS

HARDWARE NOTES:

I - FLUSH BOLTS: THE INACTIVE DOOR LEAF CONTAINED A CONCEALED FLUSH BOLT BORANO 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 1X2XO.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 5ASH: (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, BORANO # H I A 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 BORANO 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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BORANO SER
OUTSWING DOORS
LARGE & SMALL MISSILE
IMPACT RATED

ENGINEERING
ENGCO INC. - CA 81167
5595 ORANGE DRIVE 201
DAVIE - FLORIDA - 33314
ENGCO@AOL.COM

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No. 52609

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H4 W/ 1/2" DIAMX2"LONG SHEAR PIN W/ 3/4" THROW. 11GA SS REINF. PLATE W/ A GUIDE SHEAR ROD. THE PLATE

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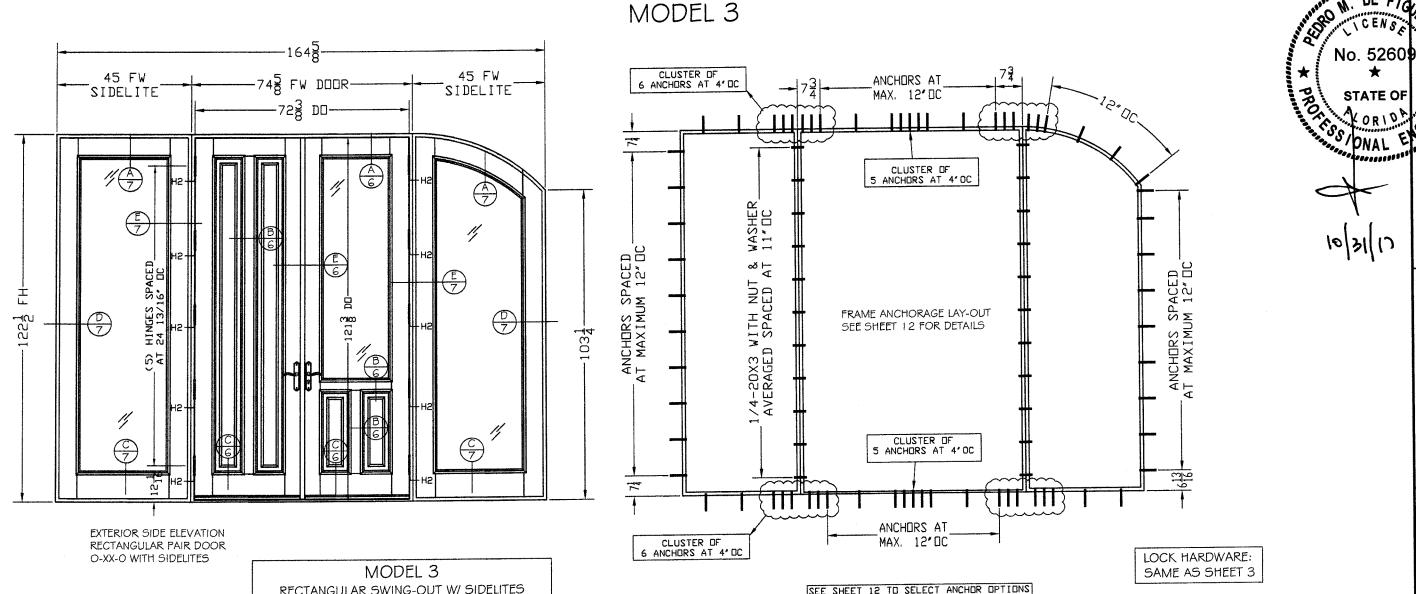
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NA DATE:

10/31/2017

DRAWING # 17-707

SHEET 3 OF 14



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 | 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 HIOC.

HARDWARE NOTES:

- 1- FLUSH BOLTS: THE INACTIVE DOOR LEAF CONTAINED A CONCEALED FLUSH BOLT BORANO PART # H4 WITH 1/2" DIAM X2" LONG SHEAR PIN WITH 3/4" THROW AT TOP AND BOTTOM. THE LOCK CONTAINED AN 1 IGA 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) #10X 1 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, BORANO # H I A 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 BORANO 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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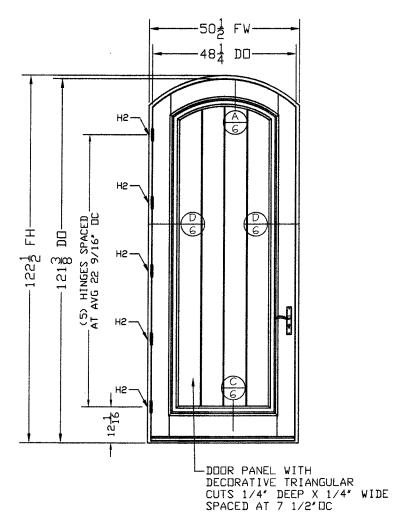
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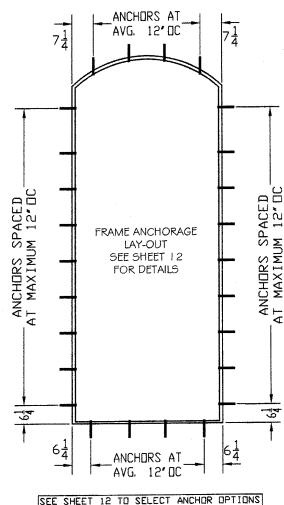
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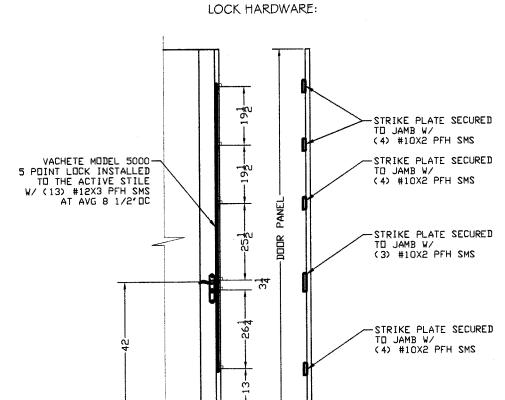
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SHEET 4 OF 14

MODEL 4







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PRODUCT:
BORANO SERIE
OUTSWING DOORS
LARGE & SMALL MISSILE
INPACT RATED

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DRAFTING \$ MORE INC

SCALE:

NA DATE: 10/31/2017

DRAWING # 17-707

SHEET 5 OF 14

MODEL 4 RECTANGULAR SWING-OUT | 3/4") SINGLE DOOR X: (MAX. 50 1/2" X 122 1/2")

PD= +65 PSF, -65 PSF

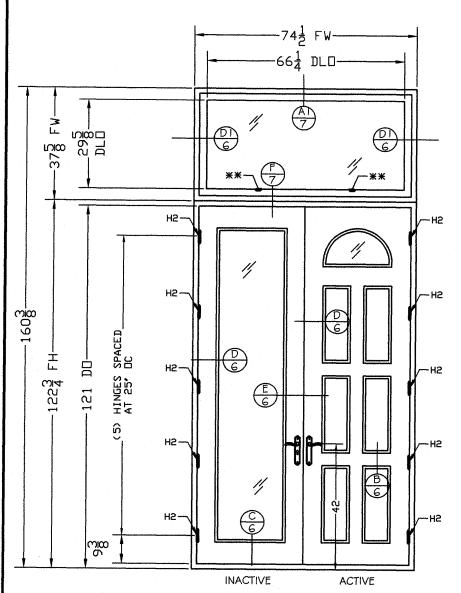
OPERATING FORCE WATER RESISTANCE: ASTM E331, 11.25 PSF (15% OF +75 PSF) AIR INFILTRATION: ASTM E283 FORCE ENTRY: ASTM F588

HARDWARE NOTES:

I - 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, # H I A - 5 POINT BY BORANO, WAS INSTALLED ON THE LEAF. EACH POINT LOCK PROTRUDED 13/16". THE CORRESPONDING (5) 6 7/8" XO.80 X O.112" PAINTED STEEL STRIKES PLATES WITH 1.73"XO.50" SLOT WERE ATTACHED TO THE DOOR JAMB AS ILLUSTRATED ABOVE

3- HINGES: (5) 4.5X4.5 SOLID BRASS HINGES BY BORANO PART# H-2 WERE ATTACHED TO THE DOOR FRAME AND DOOR LEAVES USING (4) #1 2X3 PFH SMS AND WERE ATTACHED TO THE DOOR LEAF USING (4) #1 2X3 PFH SMS.



EXTERIOR SIDE ELEVATION
RECTANGULAR TYPE PAIR DOOR W/ TRAMSOM XX-O

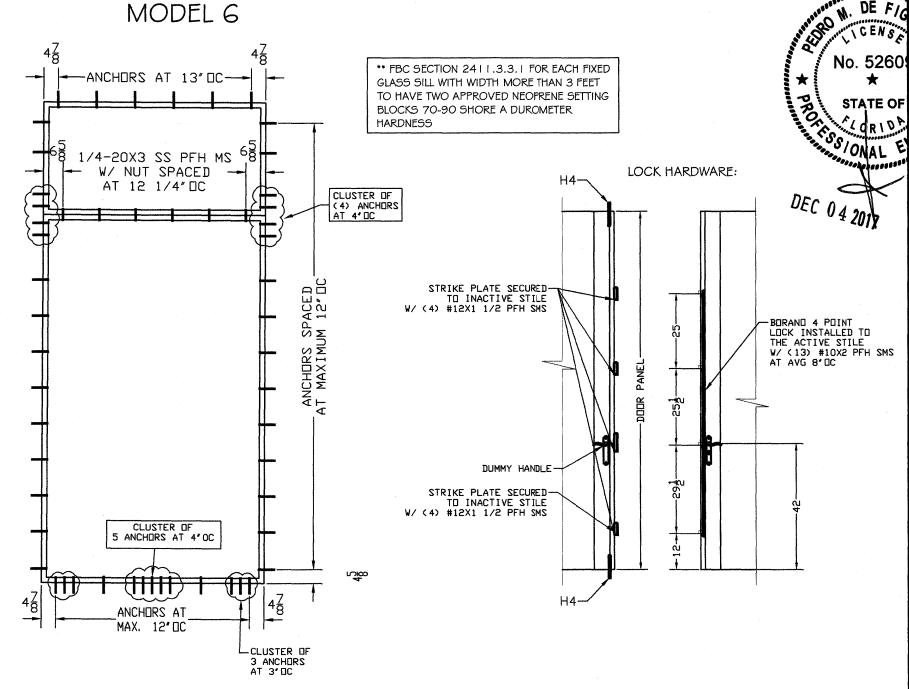
MODEL 6

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

** 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 2017 SECTION 1709.5.1)

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



HARDWARE NOTES:

- I FLUSH BOLTS: BORANO 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 11GA 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 ϕ SILL: A 1X2XO.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, BORANO # H I A 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 BORANO PART# H-2 WERE ATTACHED TO THE DOOR FRAME AND DOOR LEAVES USING (4) #12X3 PFH SMS.

MANUFACTURER: **BORANO INC**222 NE 27TH STREET
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BORANO SER OUTSWING DOORS LARGE & SMALL MISSILE INPACT RATED

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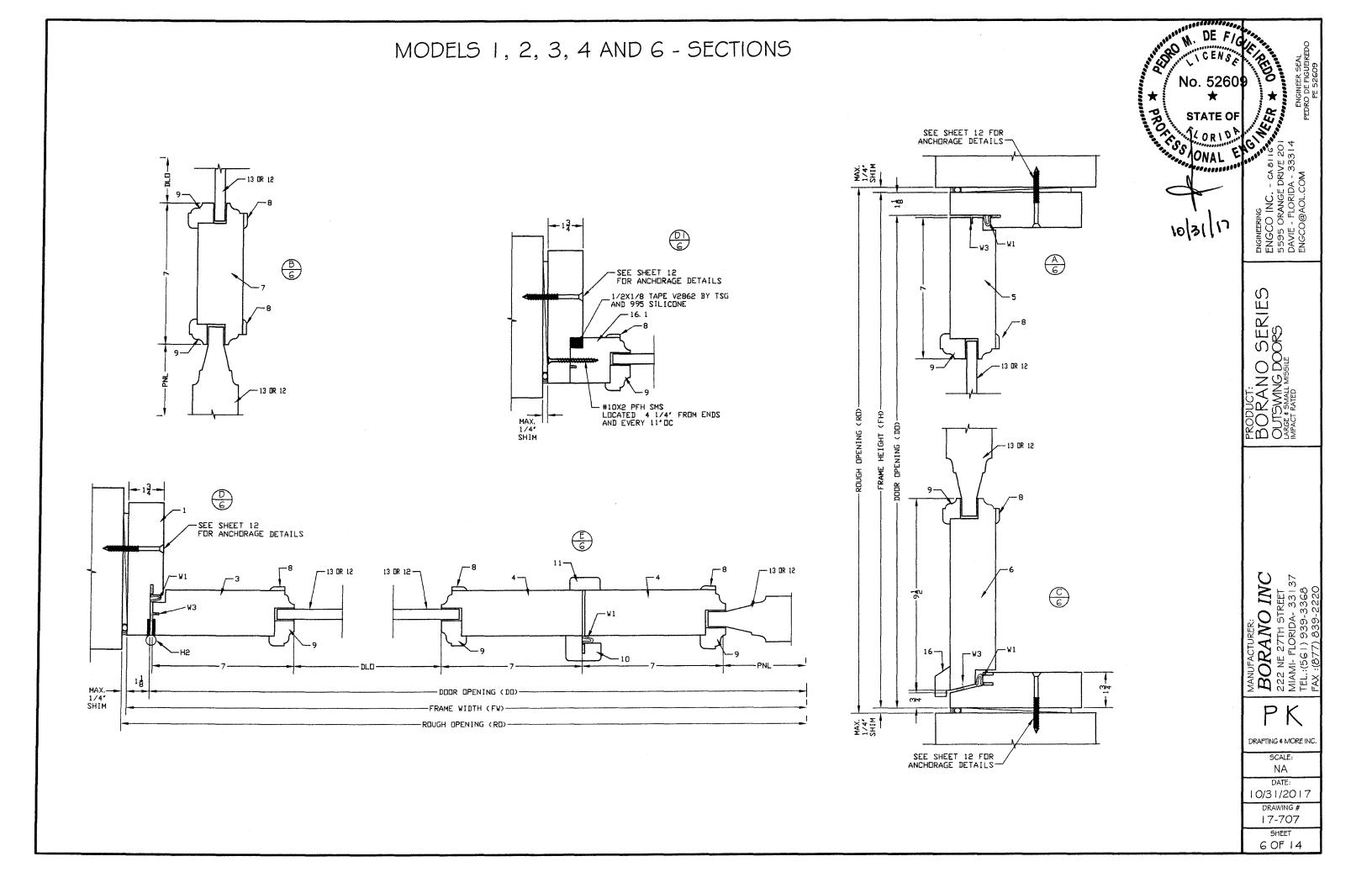
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DATE: 10/31/2017

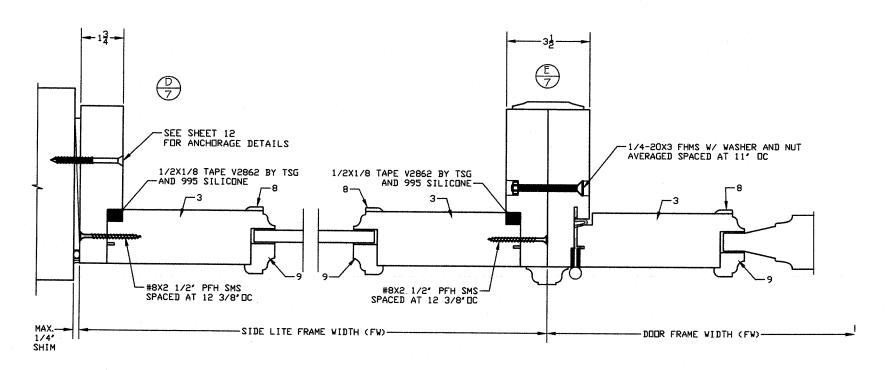
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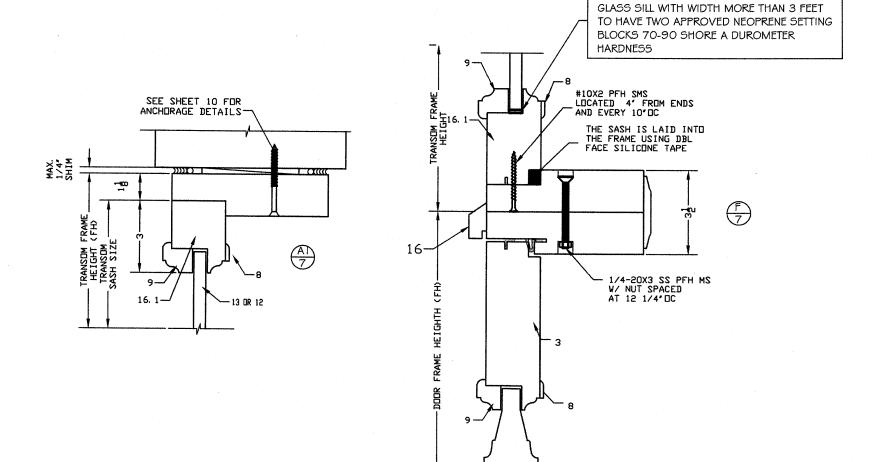
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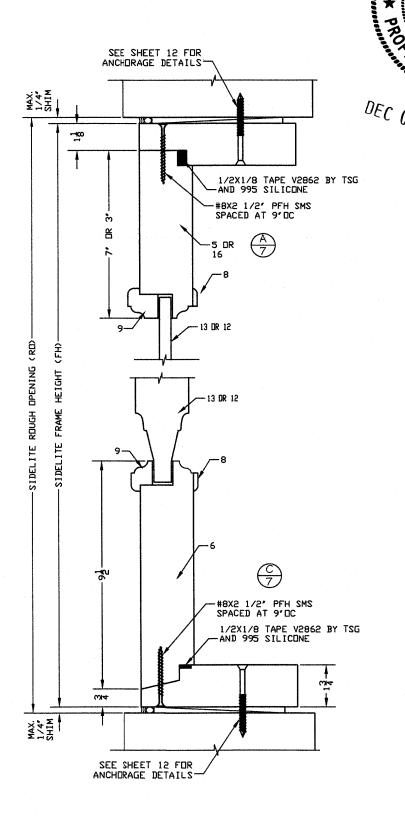


MODELS 3 AND 6 - SECTIONS

** FBC SECTION 2411.3.3.1 FOR EACH FIXED







ENGINEERING
ENGINEERING
ENGCO INC. - CA 8116 TO S595 ORANGE DRIVE 201
DAVIE - FLORIDA - 33314
ENGCO@AOL.COM
PEDRO DE FIG

PRODUCT:
BORANO SERIES
OUTSWING DOORS
LARGE # SMALL MISSILE
IMPACT RATED

MANUFACTURER:

BORANO INC
222 NE 27TH STREET
MIAMI- FLORIDA- 33137
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DRAFTING # MORE INC

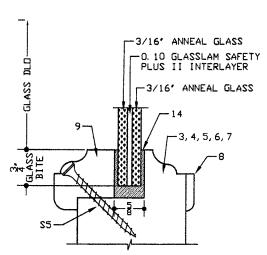
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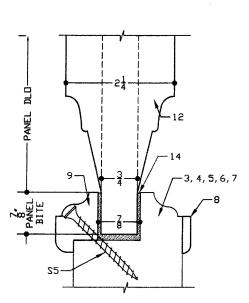
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MODELS 1, 2, 3 AND 4 - BILL OF MATERIALS & GLAZING DETAILS

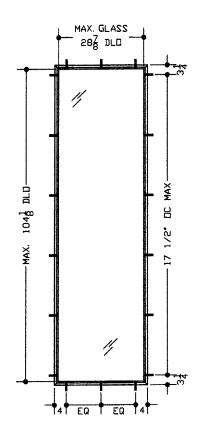
GLAZING DETAILS

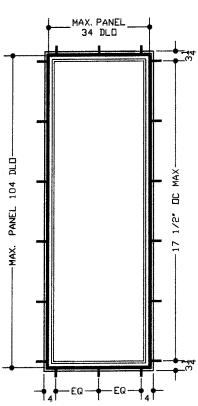


GLASS GLAZING METHOD:
GLASS AND GLAZING STOP WERE WET GLAZED
USING DOW 995 SILICONE AND FURTHER
ATTACHED USING #8X2 PFH SMS.



WOOD PANEL GLAZING METHOD: PANEL AND GLAZING STOP WERE WET GLAZED USING DOW 995 SILICONE AND FURTHER ATTACHED USING #8X2 PFH SM5.





BILL OF MATERIALS:

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PART#	DESCRIPTION	MATERIAL
	6 5/8 X 3/4 HEADER/ JAMB	LAMINATED WOOD
2	6 5/8 X 3/4 5ILL	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	I 1/4 X I 1/8 GLAZING STOP	SOLID WOOD
10	I 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:

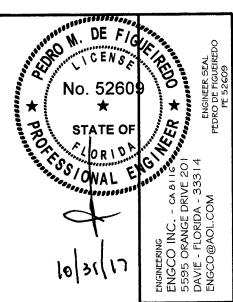
PART#	DESCRIPTION	MATERIAL
51	#10 X 3" PFH SMS	ZINC PLATED STEEL
52	#6 X 1/4" PFH SMS	ZINC PLATED STEEL
53	18 GA XI" BRAD NAIL	GALVANIZED STEEL
54	#6 X 1/2" PFH SMS	ZINC PLATED STEEL
55	#8 X 2" PFH SMS	ZINC PLATED STEEL
56	#12 X 1 1/4" PFH SMS	ZINC PLATED STEEL
57	#12 X 3" PFH SMS	ZINC PLATED STEEL
58	#8 X 1/2" PFH SMS	ZINC PLATED STEEL
59	#10 X 2" PFH SMS	ZINC PLATED STEEL
	<u> </u>	

DOOR HARDWARE:

PART#	DESCRIPTION	MATERIAL
HI	BORANO 4 POINT LOCK	STEEL
H2	4.5X4.5 BORANO HINGES	SOLID BRASS
НЗ	BORANO SURFACE BOLTS	STEEL
H4	1 1/8"X2"X11 GA STRIKE PLATE	STAINLESS STEEL

DOOR WEATHER STRIPPING:

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



PRODUCT:
BORANO SERIES
OUTSWING DOORS
INPACT RATED

BORANO INC 222 NE 27TH STREET MAMI- FLORIDA- 33137 FL.:(561) 939-3368

DRAFTING & MORE INC.

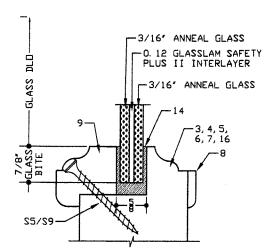
NA DATE: 10/31/2017

> DRAWING # 17-707

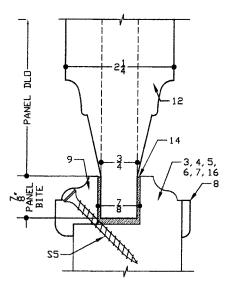
8 OF 14

MODELS 6 - BILL OF MATERIALS & GLAZING DETAILS

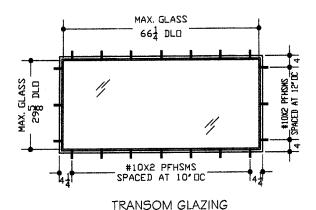
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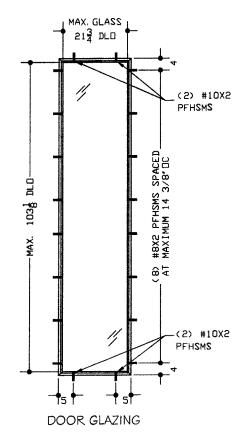


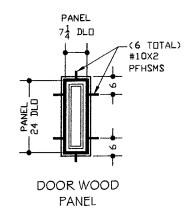
GLASS GLAZING METHOD: GLASS AND GLAZING STOP WERE WET GLAZED USING DOW 995 SILICONE AND FURTHER ATTACHED USING #8X2 PFH SMS.



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
T	6 5/8 X 3/4 HEADER/ JAMB	LAMINATED WOOD
2	6 5/8 X 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
51	#10 X 3" PFH SMS	ZINC PLATED STEEL
52	#6 X 1/4" PFH SMS	ZINC PLATED STEEL
53	18 GA XI" BRAD NAIL	GALVANIZED STEEL
54	#6 X 1/2" PFH SMS	ZINC PLATED STEEL
S5	#8 X 2" PFH SMS	ZINC PLATED STEEL
56	#12 X 1/4" PFH SMS	ZINC PLATED STEEL
57	#12 X 3" PFH SMS	ZINC PLATED STEEL
58	#8 X 1/2" PFH SMS	ZINC PLATED STEEL
59	#10 X 2" PFH SMS	ZINC PLATED STEEL

DOOR HARDWARE:

PART#	DESCRIPTION	MATERIAL
НІ	BORANO 4 POINT LOCK	STEEL
H2	4.5X4.5 BORANO HINGES	SOLID BRASS
НЗ	BORANO SURFACE BOLTS	STEEL
H4	1 1/8"X2"X11 GA STRIKE PLATE	STAINLESS STEEL

DOOR WEATHER STRIPPING:

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

ENGINEERING
ENGCO INC. - CA 8116
DAVIE - FLORIDA - 33314
ENGCO @AOL.COM
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PRODUCT:
BORANO SERIE
OUTSWING DOORS
LARGE & SMALL MISSILE
IMPACT RATED

BORANO INC 222 NE 27TH STREET MIAMI- FLORIDA- 33137 TEL::(561) 939-3368

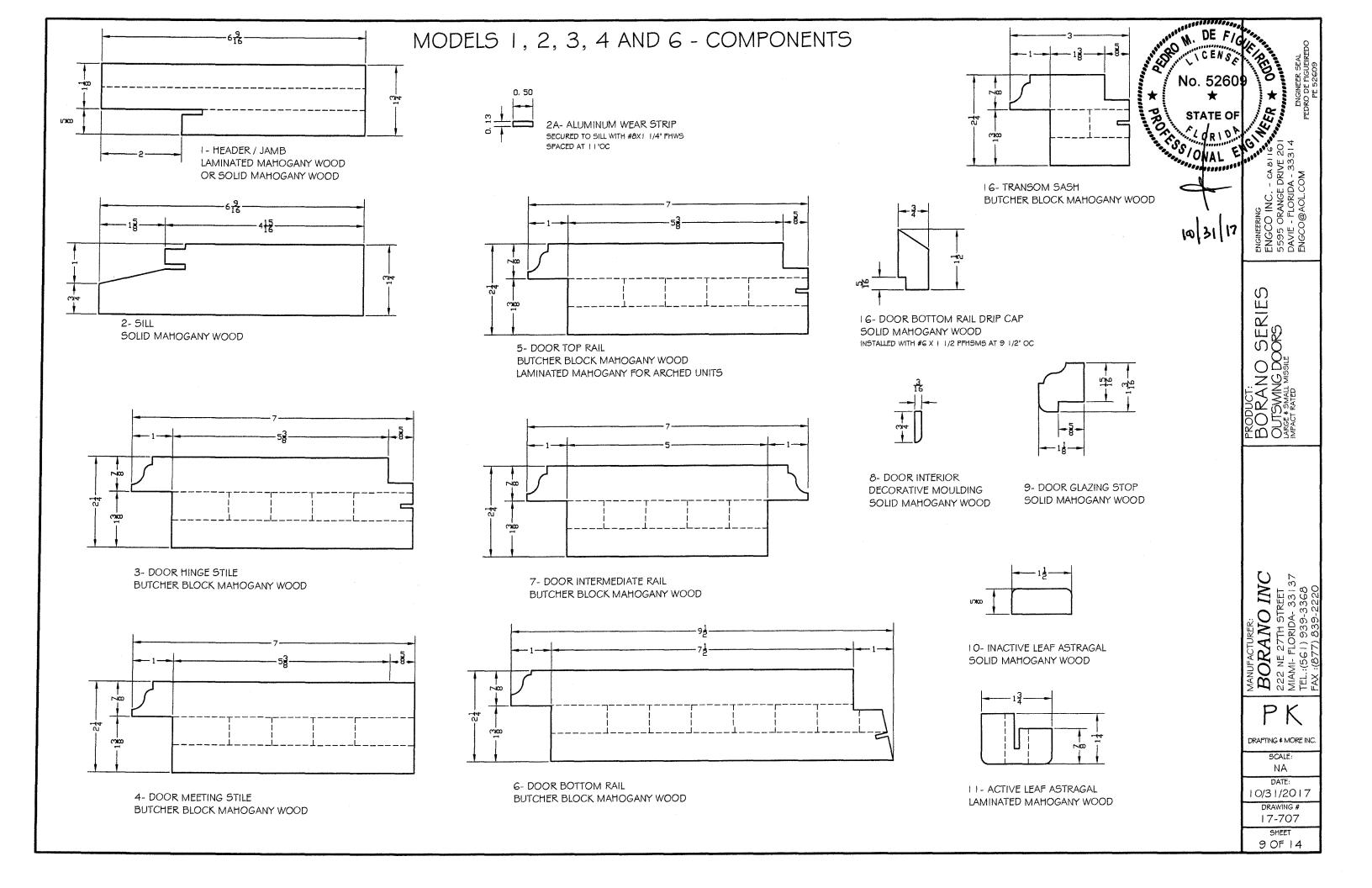
DRAFTING & MORE INC.

SCALE:
NA

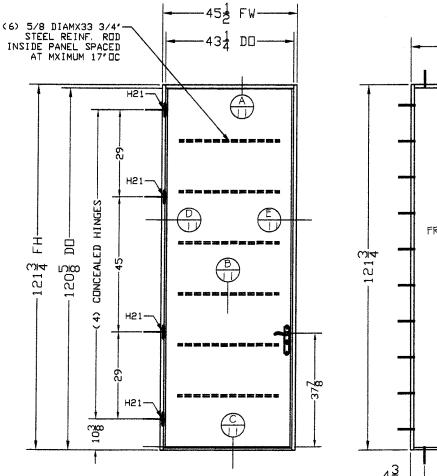
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10/31/2017

DRAWING #
17-707

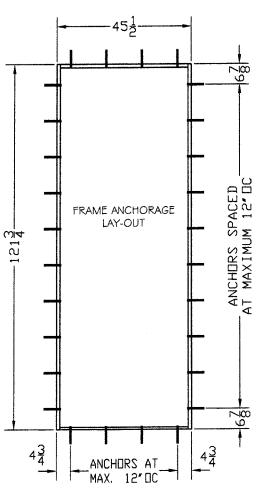
8.1 OF 14



MODEL 5



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



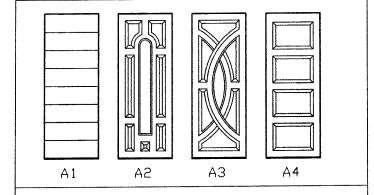
SEE SHEET 12 TO SELECT ANCHOR OPTIONS

MODEL 4

RECTANGULAR BUTCHER BLOCK SLAB SWING-OUT SINGLE DOOR X: (MAX. 45 1/2" X 121 3/4")

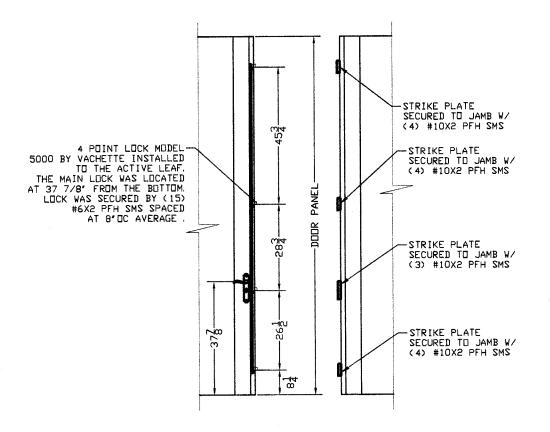
PD= +65 PSF, -65 PSF

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



ALTERNATE DOOR PANELS NOTES:

- I 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:

- I DOOR LOCK: A (4) POINT LOCKING MECHANISM MODEL 5000 BY VACHETTE, WAS INSTALLED ON THE LEAF. EACH POINT LOCK PROTRUDED 13/16" 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 TEH LEAF USING (15) #6X2 PFHSMS 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) #1 0X 2" PFHSMS EXCEPT THE STRIKE PLATE CORRESPONDING TO THE LATCH LOCK OR 2ND POINT FROM THE BOTTOM WHICH ONLY USED (3) #1 0X2" PFHSMS
- 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) # | 2X | 1/2" PFHSMS AND (2) 1/4 X 3 1/4") AND SECURED TO THE LEAF WITH (4) 1/4X2 1/2" PFHSMS.
- 4- REINFORCEMENT: (6) 5/8" DIAMETER X 33 3/4" LONG STEEL RODS LOCATED AS PER ELEVATION INSTALLED IN THE BUTCHER BLOCK CONSTRUCTED AREA.

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

BORANO INC 222 NE 27TH STREET MIAMI- FLORIDA- 33137 TEL.:(561) 939-3368 FAX:(677) 839-2220

DRAFTING & MORE INC

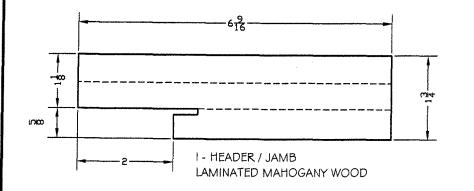
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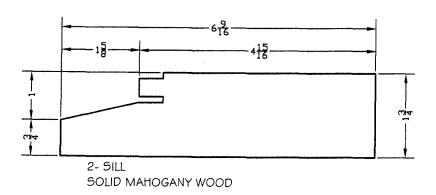
DATE:

DRAWING #

5HEET 10 OF 14

MODEL 5 - SECTIONS, BILL OF MATERIALS AND COMPONENTS





BILL OF MATERIALS:

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

ASSEMBLY SCREWS # NAILS:

PART#	DESCRIPTION	MATERIAL
51	#10 X 3" PFH SMS	ZINC PLATED STEEL
59	#10 X 2" PFH SMS	ZINC PLATED STEEL
510	#12 X 1/2" PFH SMS	ZINC PLATED STEEL
511	1/4" X 3 1/4" PFH SMS	ZINC PLATED STEEL
512	1/4" X 2 1/2" PFH SMS	ZINC PLATED STEEL
513	#6 X 2" PFH SMS	ZINC PLATED STEEL

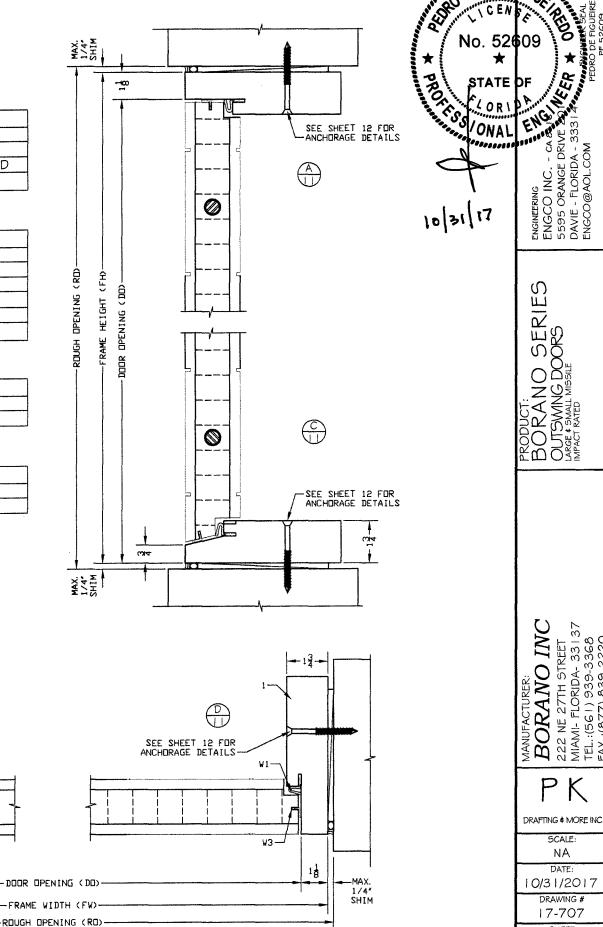
DOOR HARDWARE:

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

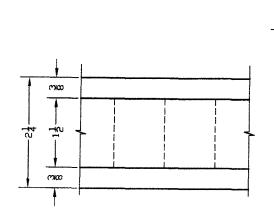
DOOR WEATHER STRIPPING:

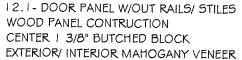
PART#	DESCRIPTION	MATERIAL	
WI	QEBD 650 KERF	BY SCHLEGEL	
W3	QEZD 320 FLAT	BY SCHLEGEL	

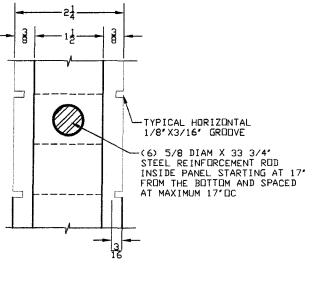
MAX.-1/4" SHIM SEE SHEET 12 FOR -ANCHORAGE DETAILS



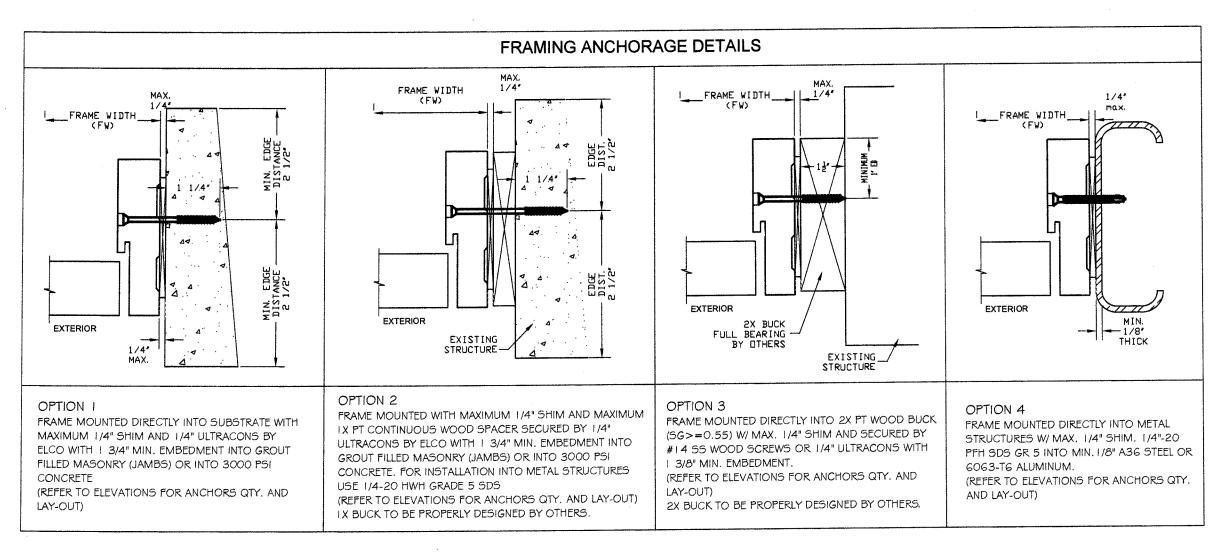
SHEET 11 OF 14

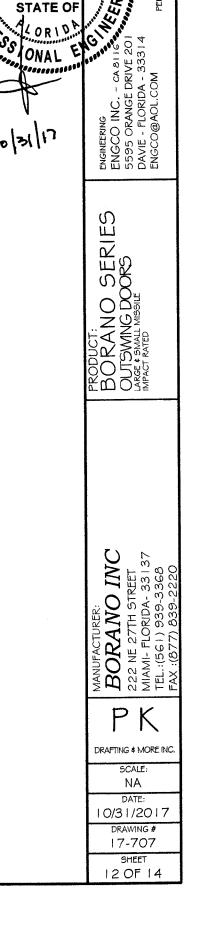


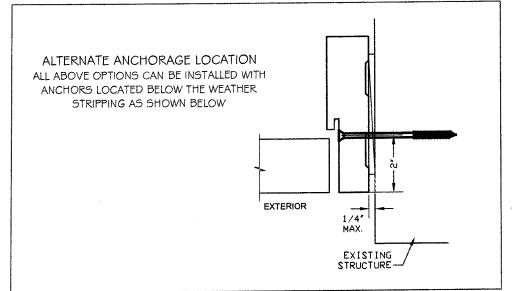




MODELS 1, 2, 3, 4, 5 AND 6 - FRAMING ANCHORAGE







QUALIFIED FRAME AND PANELS CONFIGURATIONS MAX. GLASS MAX. PANEL 34 DLO 28⁷ DLD 7 104 10/31/17 RECTANGULAR XX ARCHED XX ELLIPTICAL XX 74X122 74X122 74X122 $\overline{\mathbb{Z}}$ PRODUCT: BORANO SER OUTSWING DOORS LARGE & SMALL MISSILE INPACT RATED 1/ RECTANGULAR X 1/2 ARCHED X ARCHED X 1/2 ELLIPTICAL X ELLIPTICAL X 38X122 38X122 38X122 38X122 38X122 АЗ Α6 Α7 Α8 DRAFTING & MORE INC. SOLID SCALE: SLAB ALTERNATE DOOR PANELS NA RECTANGULAR ARCHED OR ELLIPTICAL O-XX-O DATE: RECTANGULAR W/ TRANSOM I - THESE ARE JUST FOR A FEW VARIATIONS OF MANY POSSIBLE 10/31/2017 PAIR O-XX-O -154X122 PAIR O-XX-O -154X122 PAIR XX-0 -74 1/2 X160 3/8 COMBINATIONS. SINGLE O-X-0 -118X122 SINGLE O-X-O -118X122 DRAWING # SINGLE X-O -38 3/8X160 3/8 2- COMBINATIONS OF ALTERNATE DOOR PANELS ARE ACCEPTABLE IF 17-707 GLASS DLO AREA AND DLO WOOD PANEL AREA NOT TO EXCEED SHEET THE SIZES LISTED ABOVE: 13 OF 14

