

MW Millworks LLC

SERIES WOOD INSWING IMPACT ENTRY DOORS

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN EVALUATED TO COMPLY WITH THE CURRENT PROVISIONS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING THE HIGH VELOCITY HURRICANE ZONES (HVHZ) AND IS BASED ON TESTING CONDUCTED TO ASTM E330, ASTM E1886, ASTM E1996, TAS 202, TAS 201 & TAS-203 TEST PROTOCOLS DOCUMENTED IN TEST REPORT NO. FTL-10438.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE, MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X BUCK OVER MASONRY AND/OR CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF THE INSTALLATION METHODS DEVIATE FROM THESE APPROVED DETAILS THIS WOULD REQUIRE FURTHER INVESTIGATION BY A LICENSED OR REGISTERED DESIGN PROFESSIONAL.
5. ALL SETTING BLOCKS SHALL BE IN COMPLIANCE WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE. SETTING BLOCKS SHALL BE NEOPRENE WITH A 70 TO 90 SHORE A DUROMETER.
6. IN AREAS WHERE WINDBORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN IMPACT PROTECTIVE SYSTEM COMPLYING WITH THE FBC REQUIREMENTS FOR WINDBORNE DEBRIS REGIONS SHALL NOT BE REQ'D.
7. MATERIALS:

7.1. FRAME:WOOD WITH SPECIFIC GRAVITY = 0.50.

7.2. CLADDING:ALUMINUM 6063-T5.

7.3. MISC.COMPONENTS: ALUMINUM 6063-T5.

7.4. SILL: ALUMINUM 6060-T66
8. GLAZING AND OPAQUE INFILLS:

8.1. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-12AE1.

8.2. SEE GLAZING AND INFILL DETAILS ON SHEET 12 OF 12.

8.3. GLASS SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT EDITION OF THE FLORIDA BUILDING CODE.
9. HARDWARE:

9.1. EMTEK SERIES 8455 SERIES DEADBOLT AND 8100 PASSAGE LOCK.

9.2. BALDWIN SERIES 8231-102 DEADBOLT AND 5510 PASSAGE LOCK.

9.3. HOPPE HLS 9000 SERIES MULTI-POINT LOCK SYSTEM AND SHOOTBOLT.

9.4. IVES SB453 8" SURFACE BOLTS.

9.5. ENDURA Z SERIES O.S. BUMP SILL.

9.6. ENDURA Z SERIES ADJUSTABLE I.S. SILL.

9.7. SCHLEGAL SERIES 2200 HYDROSILL.
10. PANEL OPERABILITY DESIGNATIONS:

10.0. DOOR IS AN OPERABLE PANEL (X).

10.1. DOOR IS A STATIONARY PANEL (O).

INSTALLATION NOTES:

1. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH A LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
2. FOR ANCHORING THROUGH FRAME OR ANCHOR CLIP INTO MASONRY/CONCRETE USE 1/4" ITW TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE THE FOLLOWING:

2.1. CONCRETE: 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1-1/2" MINIMUM EDGE DISTANCE.

2.2. CMU/MASONRY: 1" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE.
3. ANCHORING INTO WOOD SHALL BE AS FOLLOWS:

3.1. FOR ANCHORING THROUGH FRAME OR ANCHOR CLIP INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREWS PER (ANSI B18.6.1) WITH MINIMUM GRADE 2 STRENGTH AND WITH SUFFICIENT LENGTH TO ACHIEVE 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 7/8" MINIMUM EDGE DISTANCE.
4. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

4.1. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55 (HVHZ), 0.42 (NON-HVHZ).

4.2. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

4.3. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT WITH COMPRESSIVE STRENGTH OF 1900 psi (DENSITY > 117 PCF).

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11	COMPONENTS
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PROJECT NO. ACE-2024-107

MW MILWORKS, LLC

7225 PEPPERMILL PARKWAY

NORTH CHARLESTON, SC 29418

TITLE: SERIES WOOD INSWING L.M. IMPACT ENTRY DOOR SYTEM

GENERAL NOTES

DRAWN BY: JRM

DATE: 05-28-2021

SCALE: N.T.S.

DRAWING NO: MWM-001

REV: A

SHEET: 1 OF 12

ROBERT J. AMORUSO

FLORIDA P.E. NO. 49752

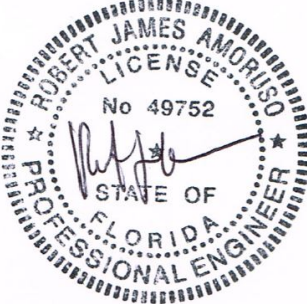
226 N. NOVA RD., #142

ORMOND BEACH, FL 32174

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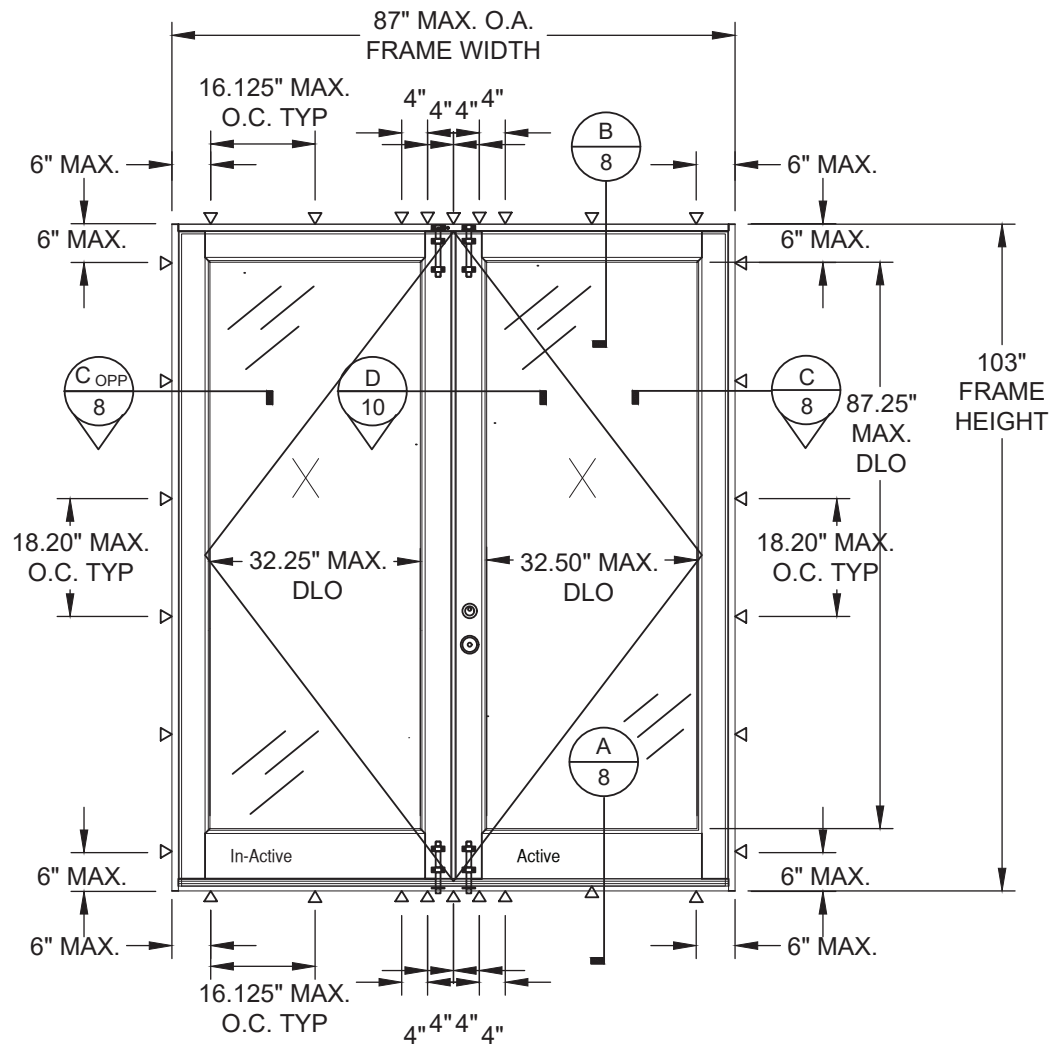
ROBERT J. AMORUSO

FL. P.E. NO. 49752



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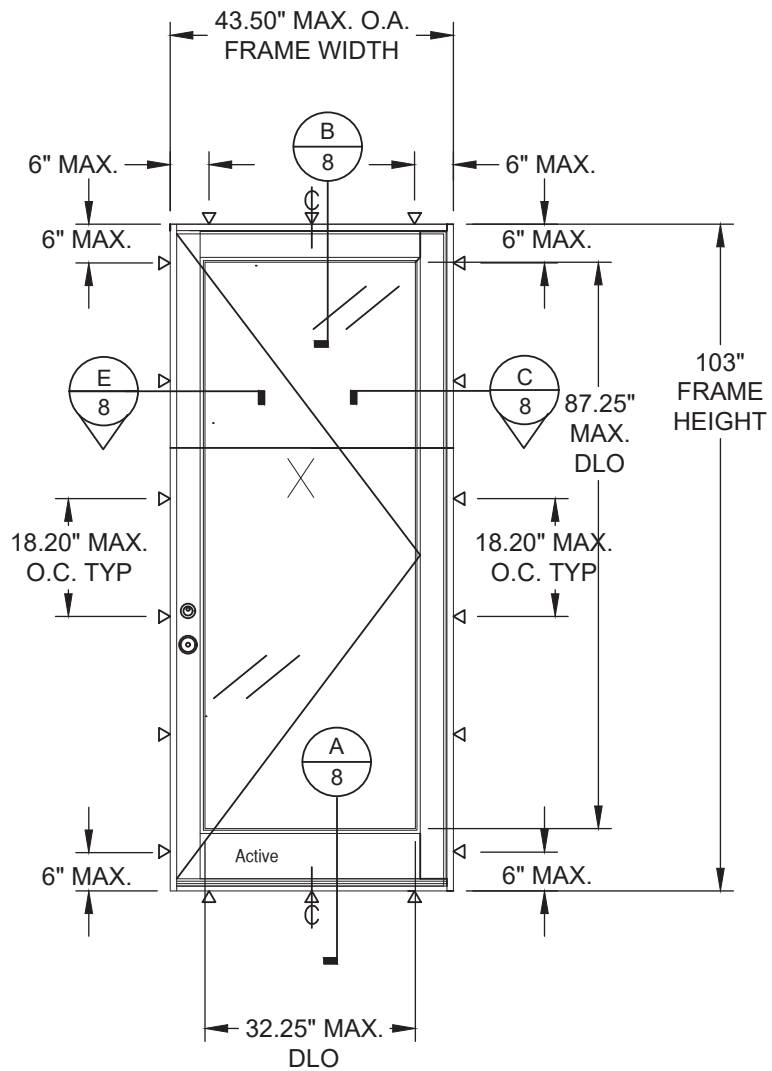


ELEVATION LAYOUT
DOUBL ENTRY DOOR (XX)

HARDWARE NOTES:

1. DOUBLE ENTRY DOOR WITH DEADBOLT AND PASSAGE LOCK REQUIRE SURFACES BOLTS.
2. SEE HARDWARE NOTES ON SHEET 1, NOTE 9 FOR ALL HARDWARE TYPES AS APPROVED BY TEST.

DESIGN PRESSURE RATING (PSF) INSWING THRESHOLD			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF) WHERE WATER INFILTRATION IS NOT REQUIRED	QUALIFIED CONFIGURATION	IMPACT RATING HVHZ & NON-HVHZ WIND ZONE 4
43.50" X 103"	+/- 55.0 PSF	X	LARGE MISSILE
87" X 103"	+/- 55.0 PSF	XX	LARGE MISSILE
SEE GLAZING DETAILS ON SHT. 12			



ELEVATION LAYOUT
SINGLE ENTRY DOOR (X)

DESIGN PRESSURE RATING (PSF) INSWING THRESHOLD			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF) WHERE WATER INFILTRATION IS REQUIRED	QUALIFIED CONFIGURATION	IMPACT RATING HVHZ & NON-HVHZ WIND ZONE 4
43.50" X 103"	+ 34.50 /- 55.0 PSF	X	LARGE MISSILE
87" X 103"	+ 34.50 /- 55.0 PSF	XX	LARGE MISSILE
SEE GLAZING DETAIL ON SHT. 12			

THIS SYSTEM DOES NOT MEET THE WATER INFILTRATION REQUIREMENTS OF THE FBC, SECTION 1709.5.1 AND MUST BE INSTALLED ONLY IN NON-HABITABLE AREAS OR HABITABLE LOCATIONS PROTECTED BY AN OVERHANG OR CANOPY SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS NOT LESS THAN 45 DEGREES.

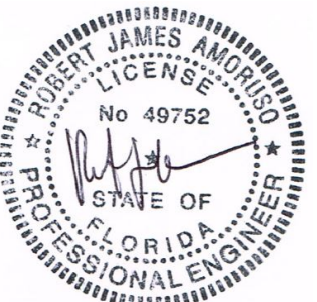
PROJECT NO. ACE-2024-107

MW MILWORKS, LLC
7225 PEPPERMILL PARKWAY
NORTH CHARLESTON, SC 29418
TITLE: SERIES WOOD INSWING L.M. IMPACT ENTRY DOOR SYTEM
ELEVATION AND ANCHOR LAYOUTS

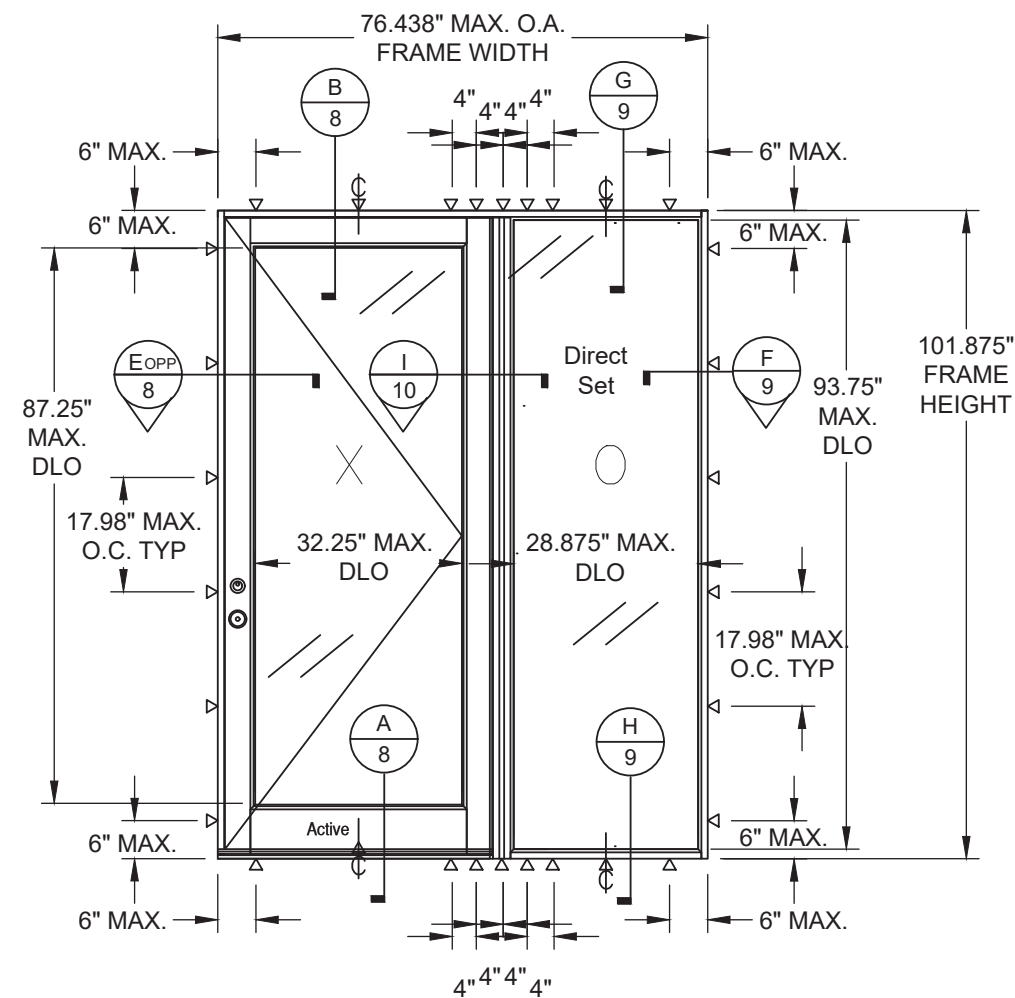
DRAWN BY: JRM
SCALE: N.T.S.
REV: A
DATE: 05-28-2021
DRAWING NO: MWM-001
SHEET: 2 OF 12

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Amoruso
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ELEVATION LAYOUT
SINGLE ENTRY DOOR
W/ DIRECT SET SIDELITE (X-O)

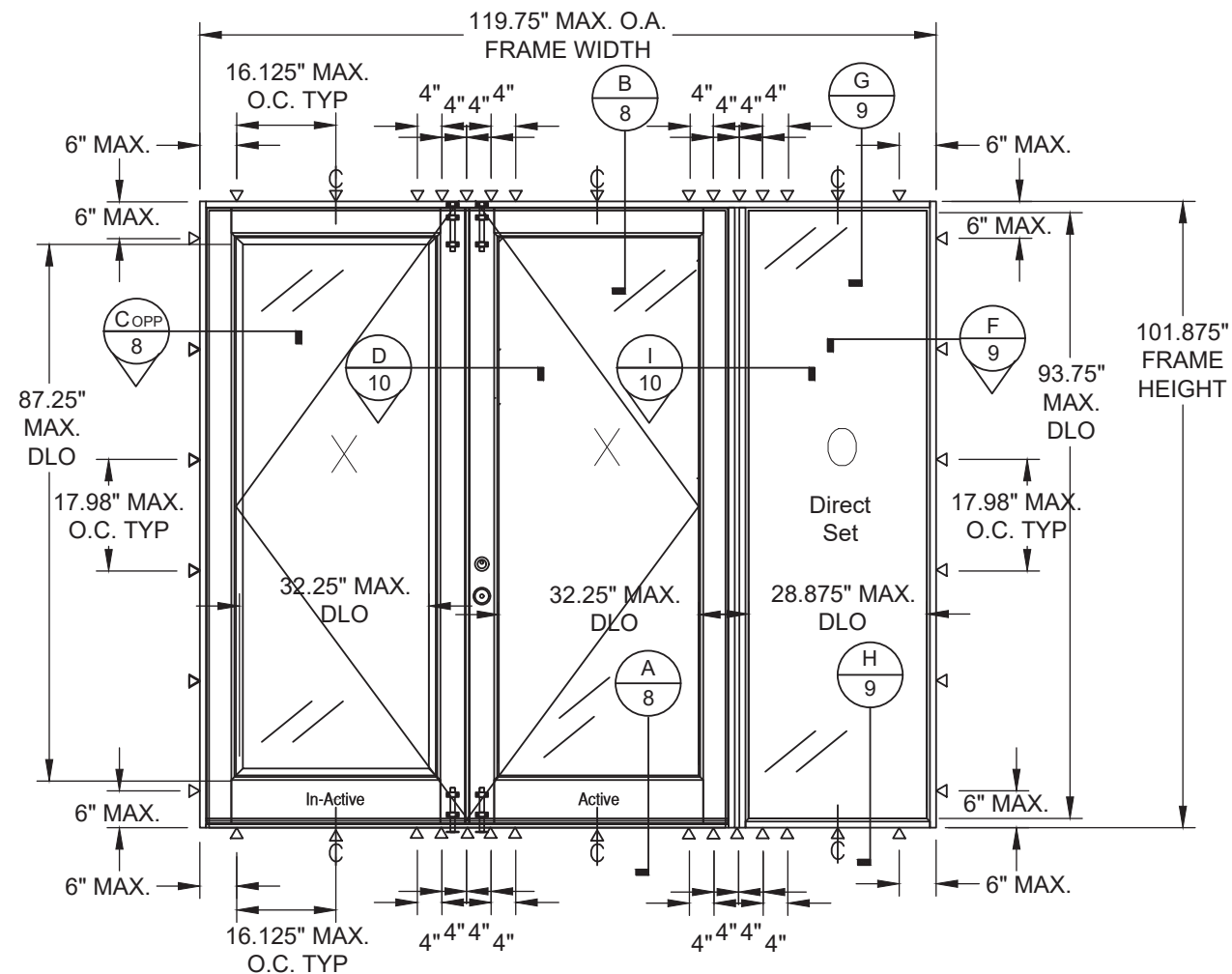
MULTIPLE UNIT NOTES:

1. FOR ALL DETAILS NOT SHOWN SEE INDIVIDUAL UNIT ELEVATIONS.
2. X-O UNIT WITH DIRECT SET IS SHOWN. ALL OTHER FIXED / OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITION SHOWN. UNITS MAY BE DIRECT SET OR SIDELITE TYPES.

HARDWARE NOTES:

1. DOUBLE ENTRY DOOR WITH DEADBOLT AND PASSAGE LOCK REQUIRE SURFACES BOLTS.
2. SEE HARDWARE NOTES ON SHEET 1, NOTE 9 FOR ALL HARDWARE TYPES AS APPROVED BY TEST.

DESIGN PRESSURE RATING (PSF) IN SWING THRESHOLD			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF) WHERE WATER INFILTRATION IS NOT REQUIRED	QUALIFIED CONFIGURATION	IMPACT RATING HVHZ & NON-HVHZ WIND ZONE 4
76.438" X 101.875"	+/- 55.0 PSF	X-O, O-X	LARGE MISSILE
119.75" X 101.875"	+/- 55.0 PSF	XX-O, O-XX	LARGE MISSILE
SEE GLAZING DETAILS ON SHT. 12			



ELEVATION LAYOUT
DOUBLE ENTRY DOOR
W/ DIRECT SET SIDELITE (XX-O)

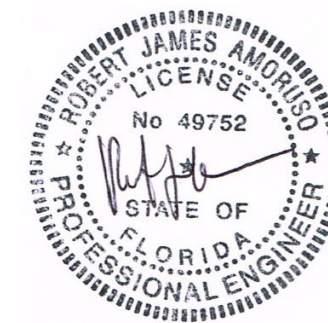
MULTIPLE UNIT NOTES:

1. FOR ALL DETAILS NOT SHOWN SEE INDIVIDUAL UNIT ELEVATIONS.
2. XX-O UNIT WITH DIRECT SET IS SHOWN. ALL OTHER FIXED / OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITION SHOWN. UNITS MAY BE DIRECT SET OR SIDELITE TYPES.

DESIGN PRESSURE RATING (PSF) INSWING THRESHOLD			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF) WHERE WATER INFILTRATION IS REQUIRED	QUALIFIED CONFIGURATION	IMPACT RATING HVHZ & NON-HVHZ WIND ZONE 4
76.438" X 101.875"	+ 34.50 /- 55.0 PSF	X-O, O-X	LARGE MISSILE
119.75" X 101.875"	+ 34.50 /- 55.0 PSF	XX-O, O-XX	LARGE MISSILE
SEE GLAZING DETAIL 1 & 2 ON SHT. 12			

THIS SYSTEM DOES NOT MEET THE WATER INFILTRATION REQUIREMENTS OF THE FBC, SECTION 1709.5.1 AND MUST BE INSTALLED ONLY IN NON-HABITABLE AREAS OR HABITABLE LOCATIONS PROTECTED BY AN OVERHANG OR CANOPY SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS NOT LESS THAN 45 DEGREES.

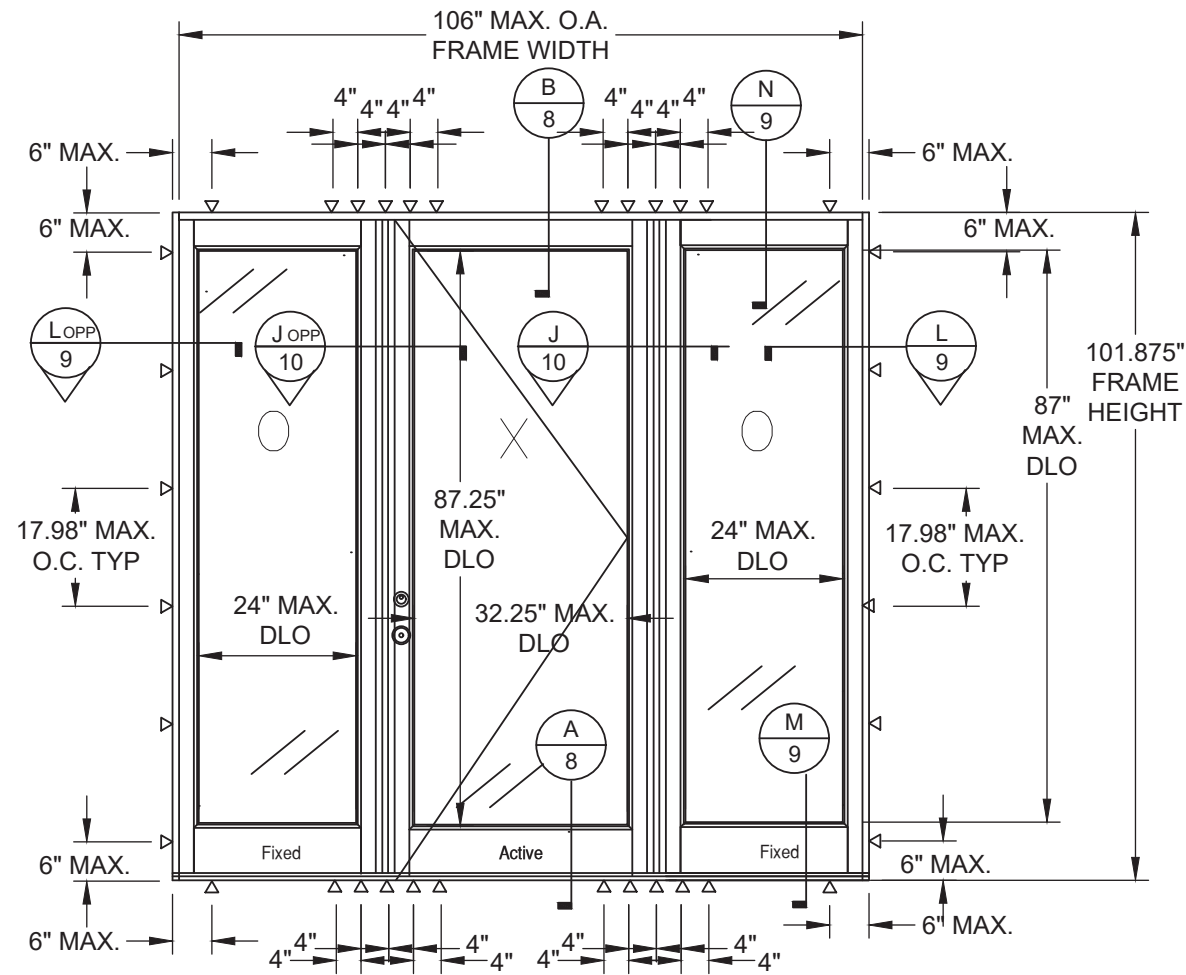
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Amoruso

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ELEVATION LAYOUT
SINGLE ENTRY DOOR
W/ SIDELITE (O-X-O)

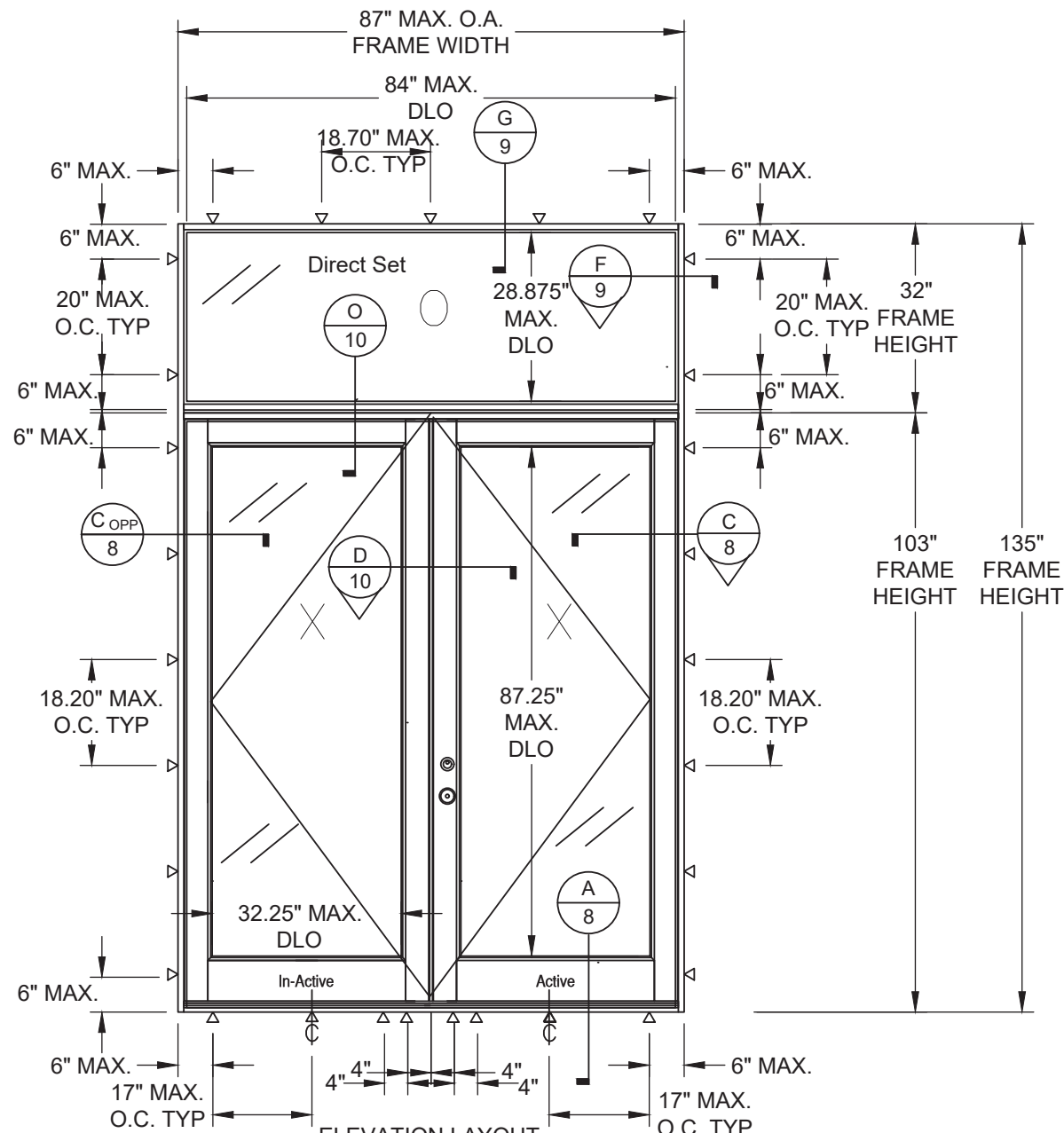
MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN SEE INDIVIDUAL UNIT ELEVATIONS.
2. O-X-O UNIT WITH SIDELITE IS SHOWN. ALL OTHER FIXED / OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITION SHOWN. UNITS MAY BE DIRECT SET OR SIDELITE TYPES.

HARDWARE NOTES:

1. DOUBLE ENTRY DOOR WITH DEADBOLT AND PASSAGE LOCK REQUIRE SURFACES BOLTS.
2. SEE HARDWARE NOTES ON SHEET 1, NOTE 9 FOR ALL HARDWARE TYPES AS APPROVED BY TEST.

DESIGN PRESSURE RATING (PSF) INSWING THRESHOLD			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF) WHERE WATER INFILTRATION IS NOT REQUIRED	QUALIFIED CONFIGURATION	IMPACT RATING HVHZ & NON-HVHZ WIND ZONE 4
106" X 101.875"	+/- 55.0 PSF	O-X-O	LARGE MISSILE
87" X 135"	+/- 55.0 PSF	O/XX	LARGE MISSILE
SEE GLAZING DETAIL ON SHT. 12			



ELEVATION LAYOUT
DOUBLE ENTRY DOOR
W/ DIRECT SET TRANSOM (O/XX)

MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN SEE INDIVIDUAL UNIT ELEVATIONS.
2. O/XX UNIT WITH DIRECT SET IS SHOWN. ALL OTHER FIXED / OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITION SHOWN. UNITS MAY BE DIRECT SET OR STD. TRANSOM TYPES.

DESIGN PRESSURE RATING (PSF) INSWING THRESHOLD			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF) WHERE WATER INFILTRATION IS REQUIRED	QUALIFIED CONFIGURATION	IMPACT RATING HVHZ & NON-HVHZ WIND ZONE 4
106" X 101.875"	+ 34.50 /- 55.0 PSF	O-X-O	LARGE MISSILE
87" X 135"	+ 34.50 /- 55.0 PSF	O/XX	LARGE MISSILE
SEE GLAZING DETAILS ON SHT. 12			

THIS SYSTEM DOES NOT MEET THE WATER INFILTRATION REQUIREMENTS OF THE FBC, SECTION 1709.5.1 AND MUST BE INSTALLED ONLY IN NON-HABITABLE AREAS OR HABITABLE LOCATIONS PROTECTED BY AN OVERHANG OR CANOPY SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS NOT LESS THAN 45 DEGREES.

PROJECT NO. ACE-2024-107

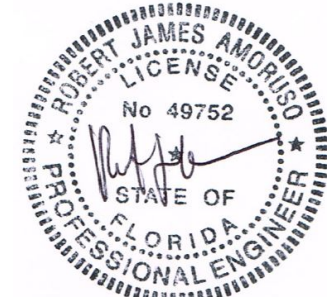
MW MILWORKS, LLC
7225 PEPPERMILL PARKWAY
NORTH CHARLESTON, SC 29418

TITLE: SERIES WOOD INSWING L.M. IMPACT ENTRY DOOR SYTEM
ELEVATION AND ANCHOR LAYOUTS

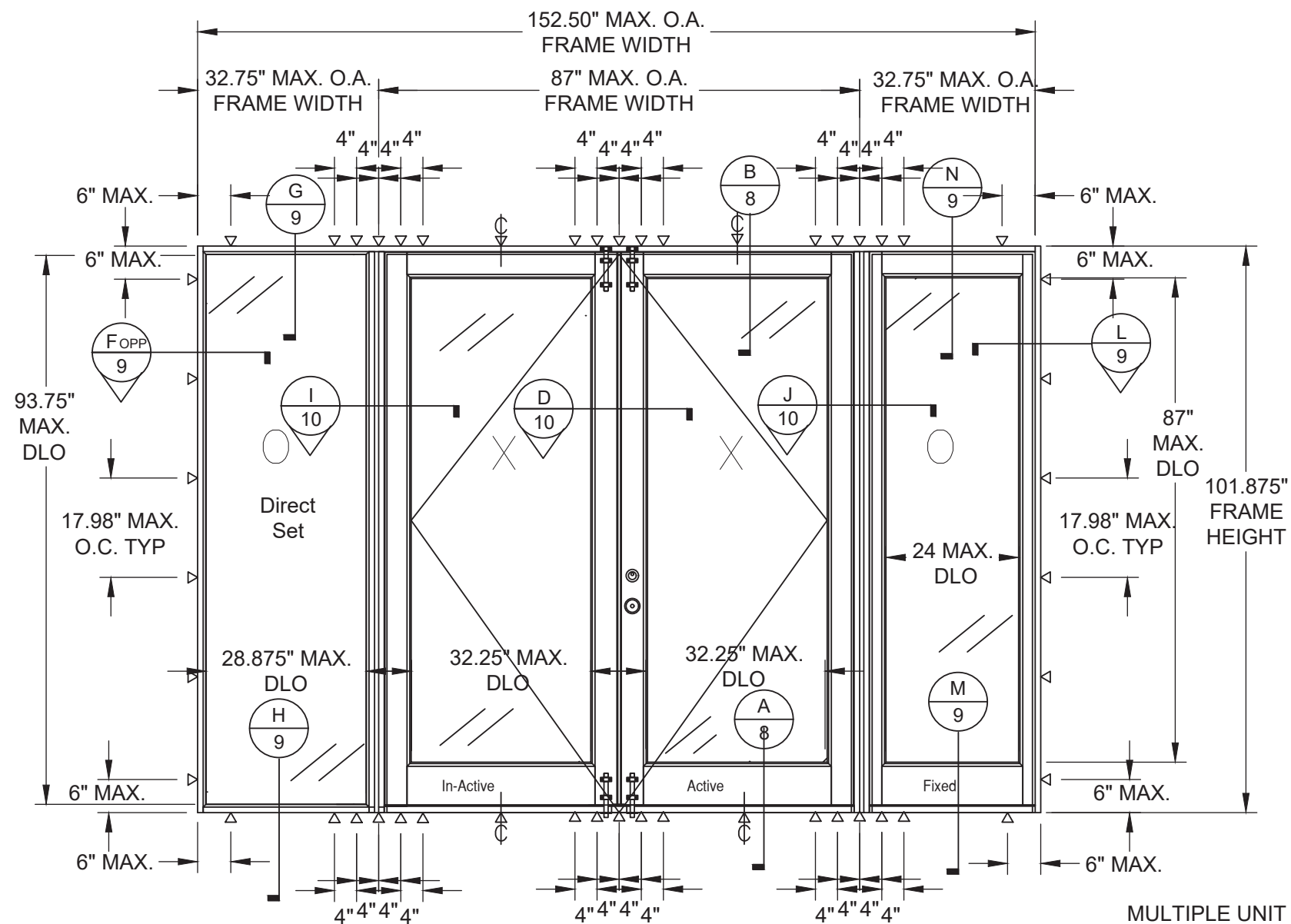
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DRAWING NO:	MWM-001	DATE:	UPDATE TO 8TH ED. (2023) FBC	DATE:	DESCRIPTION
SCALE:	N.T.S.	DATE:		DATE:	
REV:	A	DATE:		DATE:	
SHEET:	4 OF 12	DATE:		DATE:	

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Date: 2024.03.09
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ELEVATION LAYOUT
DOUBLE ENTRY DOOR
W/ DIRECT SET & STD. SIDELITES (O-XX-O)

HARDWARE NOTES:

- DOUBLE ENTRY DOOR WITH DEADBOLT AND PASSAGE LOCK REQUIRE SURFACES BOLTS.
- SEE HARDWARE NOTES ON SHEET 1, NOTE 9 FOR ALL HARDWARE TYPES AS APPROVED BY TEST.

MULTIPLE UNIT NOTES:

- FOR ALL DETAILS NOT SHOWN SEE INDIVIDUAL UNIT ELEVATIONS.
- O-XX-O UNIT WITH SIDELITE AND DIRECT SET IS SHOWN. ALL OTHER FIXED / OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITION SHOWN. UNITS MAY BE DIRECT SET OR SIDELITE TYPES.

DESIGN PRESSURE RATING (PSF) INSWING THRESHOLD			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF) WHERE WATER INFILTRATION IS NOT REQUIRED	QUALIFIED CONFIGURATION	IMPACT RATING HVHZ & NON-HVHZ WIND ZONE 4
152" X 101.875"	+/- 55.0 PSF	O-XX-O	LARGE MISSILE
SEE GLAZING DETAILS ON SHT. 12			

DESIGN PRESSURE RATING (PSF) INSWING THRESHOLD			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF) WHERE WATER INFILTRATION IS REQUIRED	QUALIFIED CONFIGURATION	IMPACT RATING HVHZ & NON-HVHZ WIND ZONE 4
152" X 101.875"	+ 34.50 /- 55.0 PSF	O-XX-O	LARGE MISSILE
SEE GLAZING DETAILS ON SHT. 12			

THIS SYSTEM DOES NOT MEET THE WATER INFILTRATION REQUIREMENTS OF THE FBC, SECTION 1709.5.1 AND MUST BE INSTALLED ONLY IN NON-HABITABLE AREAS OR HABITABLE LOCATIONS PROTECTED BY AN OVERHANG OR CANOPY SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS NOT LESS THAN 45 DEGREES.

PROJECT NO. ACE-2024-107

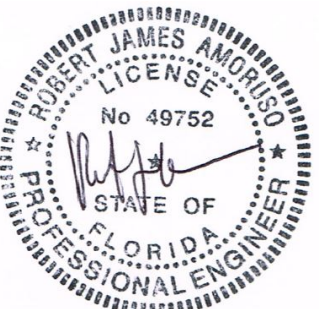
REV	DESCRIPTION	DATE	BY
A	UPDATE TO 8TH ED. (2023) FBC	3/4/24	RJA

MW MILWORKS, LLC
7225 PEPPERMILL PARKWAY
NORTH CHARLESTON, SC 29418
TITLE: SERIES WOOD INSWING L.M. IMPACT ENTRY DOOR SYTEM
ELEVATION AND ANCHOR LAYOUT

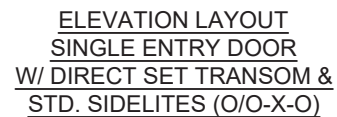
DRAWN BY: JRM	DATE: 05-28-2021
SCALE: N.T.S.	DRAWING NO: MWM-001
REV: A	SHEET: 5 OF 12

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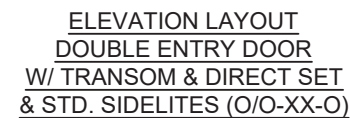
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by Robert J
Amoruso
Date: 2024.03.09
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1. FOR ALL DETAIL NOT SHOWN SEE INDIVIDUAL UNIT ELEVATIONS.
2. O/O-X-O UNIT WITH SIDELITES AND DIRECT SET TRANSOM IS SHOWN. ALL OTHER FIXED / OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITION SHOWN. UNITS MAY BE DIRECT SET OR SIDELITE TYPES.

1. DOUBLE ENTRY DOOR WITH DEADBOLT AND PASSAGE LOCK REQUIRE SURFACES BOLTS.
2. SEE HARDWARE NOTES ON SHEET 1, NOTE 9 FOR ALL HARDWARE TYPES AS APPROVED BY TEST.

DESIGN PRESSURE RATING (PSF) INSWING THRESHOLD			
MAX. OVERALL TESTED FRAME SIZE (IN)	MAX. DESIGN PRESSURE (PSF) WHERE WATER INFILTRATION IS NOT REQUIRED	QUALIFIED CONFIGURATION	IMPACT RATING HVHZ & NON-HVHZ WIND ZONE 4
106" X 135"	+/- 55.0 PSF	O/O-X-O	LARGE MISSILE
152.50" X 135"	+/- 55.0 PSF	O/O-XX-O	LARGE MISSILE
SEE GLAZING DETAILS ON SHT. 12			



1. FOR ALL DETAIL NOT SHOWN SEE INDIVIDUAL UNIT ELEVATIONS.
2. O / O-XX-O UNIT WITH TRANSOM AND SIDELITE AND DIRECT SET SIDELITE IS SHOWN. ALL OTHER FIXED / OPERABLE COMBINATIONS ALSO APPLY WITH THE MULLION CONDITION SHOWN. UNITS MAY BE DIRECT SET OR SIDELITE TYPES.

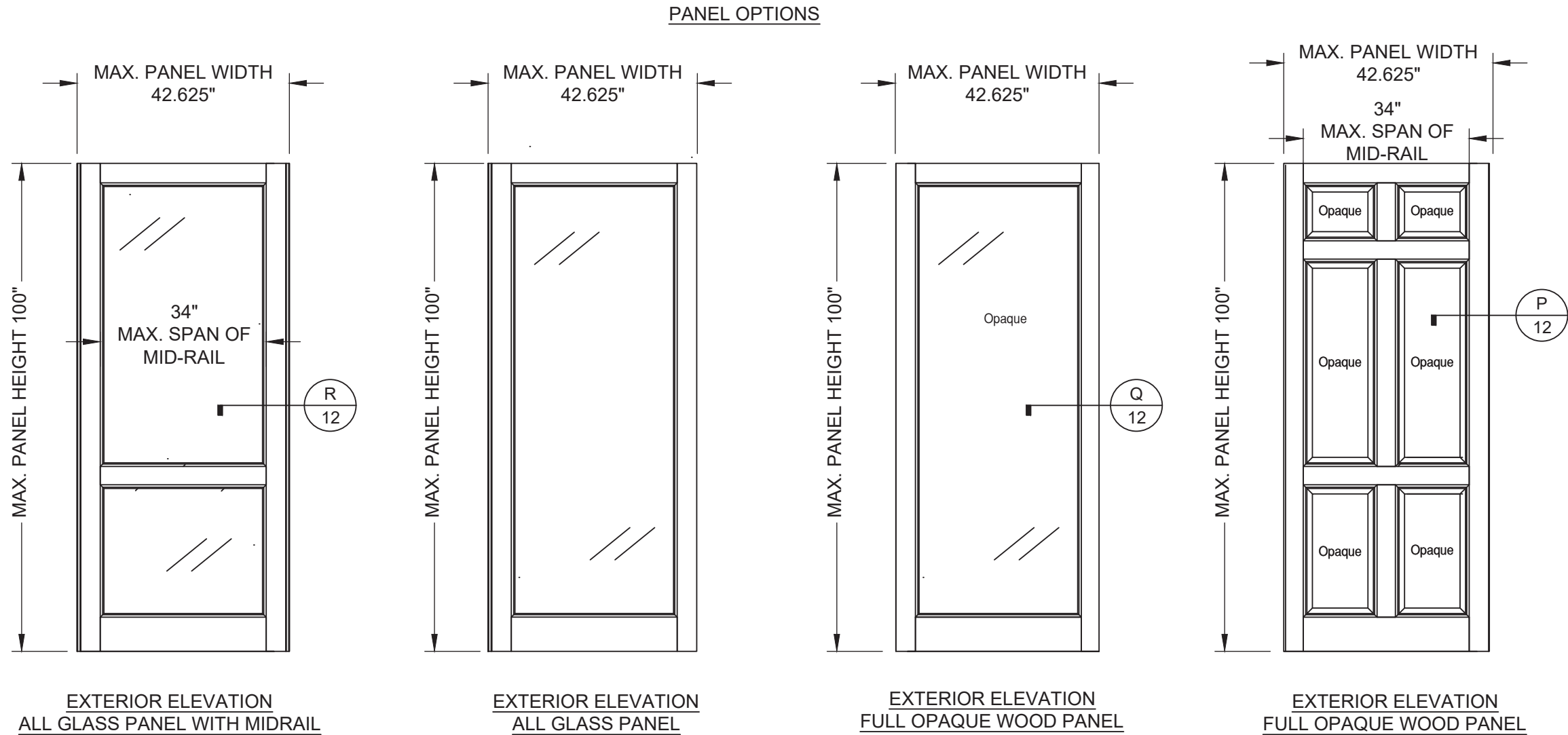
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SEE GLAZING DETAILS ON SHT. 12			

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MW MILWORKS, LLC 7225 PEPPERMILL PARKWAY NORTH CHARLESTON, SC 29418				PROJECT NO. ACE-2024-107			
TITLE: SERIES WOOD INSWING L.M. IMPACT ENTRY DOOR SYTEM ELEVATION AND ANCHOR LAYOUTS				DRAWN BY: JRM			
				DATE: 05-28-2021			
				SCALE: N.T.S.			
				REV: A			
				SHEET: 6 OF 12			
ROBERT J. AMORUSO FLORIDA P.E. NO. 49752 226 N. NOVA RD., #142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM				A	UPDATE TO 8TH ED. (2023) FBC	3/4/24	RJA
				REV	DESCRIPTION	DATE	BY

A circular professional engineer seal for Robert James Amoroso. The outer ring contains the text "ROBERT JAMES AMOROSO" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside the ring, the word "LICENSE" is at the top and "STATE OF FLORIDA" is at the bottom. In the center, the license number "No 49752" is printed above a handwritten signature.

Digitally signed
by Robert J
Amoruso
Date: 2024.03.09
16:54:17 -05'00'



- NOTES:
- 1. MID-RAIL MAY ONLY BE HORIZONTAL
 - 2. THERE IS NO LIMIT TO THE NUMBER OF MID-RAILS IN ONE PANEL.
 - 3. POSITION OF MID-RAIL IS NOT LIMITED.

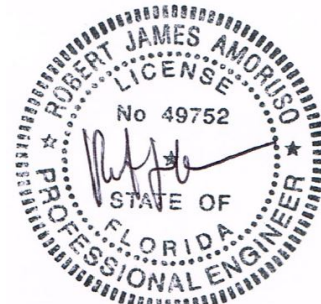
- WOOD PANEL NOTES:
- 1. WOOD PANELS ARE MADE UP OF 3/4" MARINE PLYWOOD.
 - 2. OTHER WOOD MAY BE ADDED TO THE INTERIOR &/ OR EXTERIOR FACE OF THE PLYWOOD TO CREATE RAISED PANELS, TONGUE AND GROOVE PANELS, LOUVERED PANELS ETC.

- NOTES:
- 1. MID-RAIL MAY ONLY BE HORIZONTAL
 - 2. THERE IS NO LIMIT TO THE NUMBER OF MID-RAILS IN ONE PANEL.
 - 3. POSITION OF MID-RAIL IS NOT LIMITED.
 - 4. SECONDARY MID-RAILS MAY BE PLACE WITHIN THE WOOD PANEL SECTION AND MAY BE HORIZONTAL OR VERTICAL PROVIDING THE MAX. MID-RAIL SPAN SPECIFIED IS NOT EXCEEDED.
 - 5. OPAQUE PANELS (P/12) AND (Q/12) ARE APPROVED.

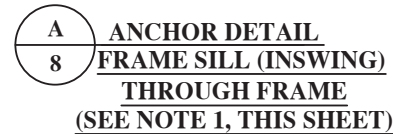
HARDWARE TABLE	
MANUFACTURER	MODEL
EMTEK	SERIES 8455 DEADBOLT & 8100 PASSAGE LOCK
BALDWIN	SERIES 8231 DEADBOLT & 5510 PASSAGE LOCK
HOPPE	HLS 9000 SERIES MULTI POINT LOCK & SHOOT BOLT

MW MILWORKS, LLC 7225 PEPPERMILL PARKWAY NORTH CHARLESTON, SC 29418			PROJECT NO. ACE-2024-107		
TITLE: SERIES WOOD INSWING L.M. IMPACT ENTRY DOOR SYTEM PANEL OPTIONS ELEVATION			DRAWN BY:	JRM	
			SCALE:	N.T.S.	
			REV:	A	
			DATE:	05-28-2021	
ROBERT J. AMORUSO FLORIDA P.E. NO. 49752 226 N. NOVA RD., #142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM			DRAWING NO:	MWM-001	
			SHEET:	7 OF 12	
			UPDATE TO 8TH ED. (2023) FBC	A	3/4/24 RJA
			DESCRIPTION	REV	DATE BY

ROBERT J. AMORUSO
FL. P.E. NO. 49752

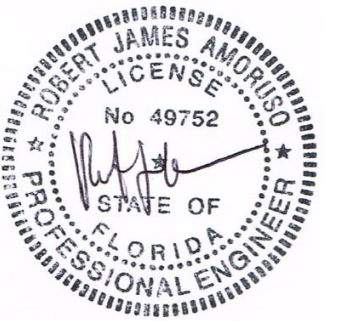


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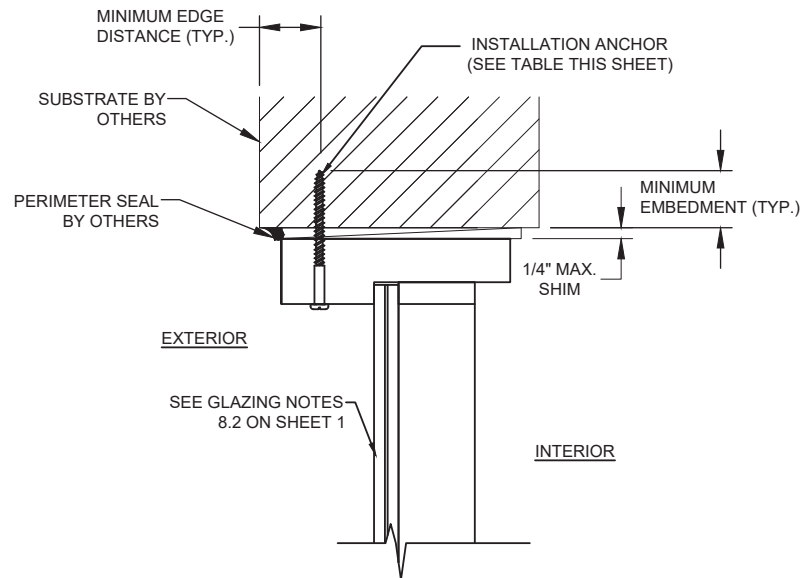


INSTALLATION ANCHOR REQUIREMENTS TABLE						
ANCHOR REQUIREMENTS						
ANCHORING METHOD		SUBSTRATE		ANCHOR SCHEDULE	MIN. EMBED. (IN)	MIN. EDGE DISTANCE (IN)
THROUGH FRAME		WOOD	MIN. 0.42 S.G. (NON-HVHZ) & 0.55 S.G. (HVHZ)	#12 WOOD SCREW	1-1/2	7/8"
		CONCRETE	2500 PSI MIN. CONCRETE	1/4 ITW TAPCON	1-1/2	1-1/2
		CMU	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN.	1/4 ITW TAPCON	1	2
NOTES:	1)	CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE 1/4" DIAMETER ITW CONCRETE SCREWS.				
	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 12 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.				

NOTE 1: WOOD THRESHOLD (ITEM NO. 2)
SHOWN. ALUMINUM THRESHOLD (ITEM NO.
15 & 16) ALSO APPROVED

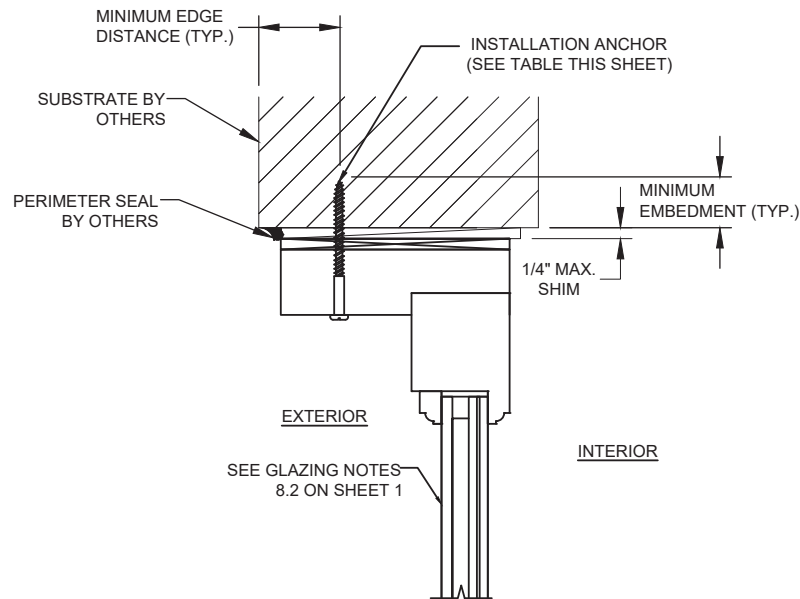


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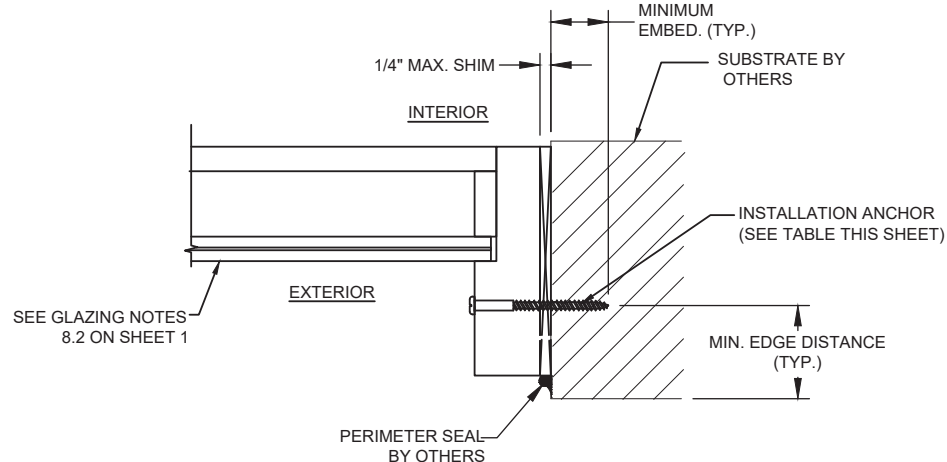
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**ANCHOR DETAIL
DIRECT SET HEAD
THROUGH FRAME**



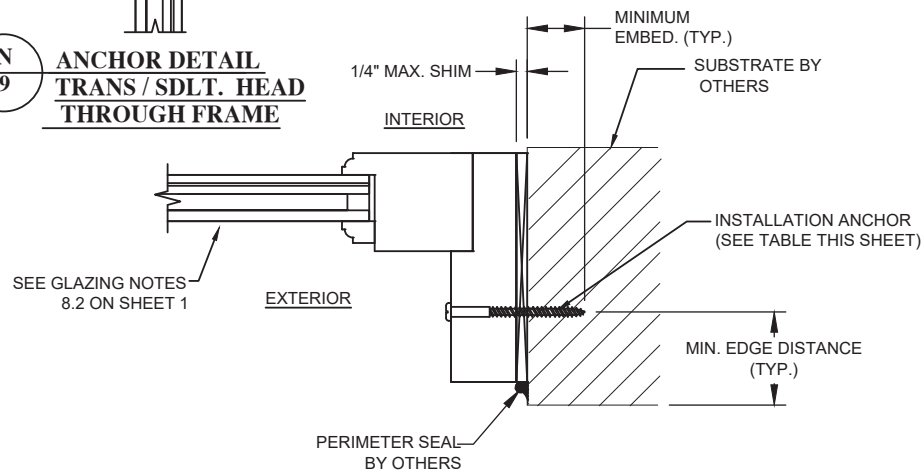
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**ANCHOR DETAIL
TRANS / SDLT. HEAD
THROUGH FRAME**



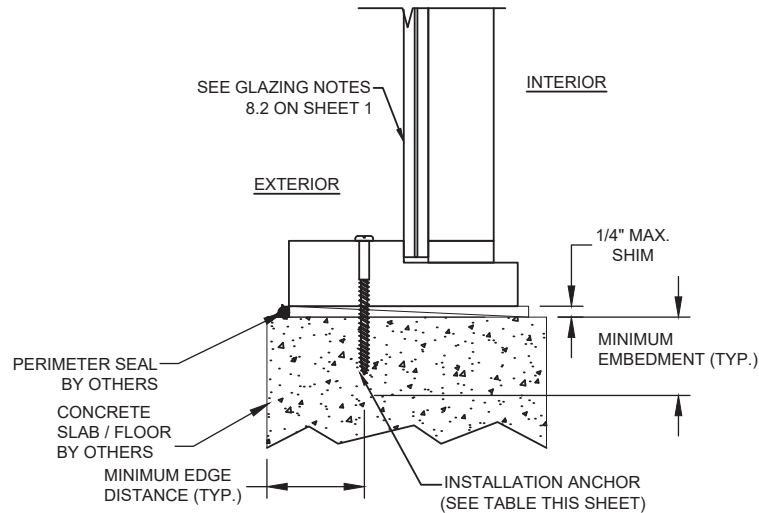
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**ANCHOR DETAIL
DIRECT SET JAMB
THROUGH FRAME**



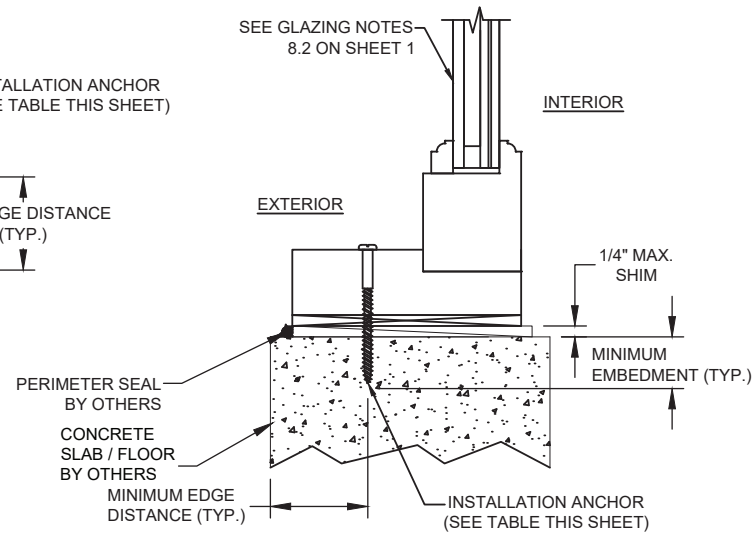
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9

**ANCHOR DETAIL
SIDELITE JAMB
THROUGH FRAME**



H
9

**ANCHOR DETAIL
DIRECT SET SILL
THROUGH FRAME**



M
9

**ANCHOR DETAIL
SIDELITE SILL
THROUGH FRAME
(SEE NOTE 1, THIS SHEET)**

INSTALLATION ANCHOR REQUIREMENTS TABLE					
ANCHOR REQUIREMENTS					
ANCHORING METHOD	SUBSTRATE		ANCHOR SCHEDULE	MIN. EMBED. (IN)	MIN. EDGE DISTANCE (IN)
THROUGH FRAME	WOOD	MIN. 0.42 S.G. (NON-HVHZ) & 0.55 S.G. (HVHZ)	#12 WOOD SCREW	1-1/2	7/8"
	CONCRETE	2500 PSI MIN. CONCRETE	1/4 ITW TAPCON	1-1/2	1-1/2
	CMU	ASTM C90 MED. WT. (DENSITY) > 117 PCF) MASONRY (CMU) MIN.	1/4 ITW TAPCON	1	2
NOTES:	1)	CONCRETE AND MASONRY (BLOCK/CMU) SUBSTRATE ANCHORS TO BE 1/4" DIAMETER ITW CONCRETE SCREWS.			
	2)	WOOD FRAME SUBSTRATE ANCHORS USE NO. 12 WOOD SCREW ANCHORS (ANSI B18.6.1) WITH MIN. GRADE 2 STRENGTH.			

NOTE 1: WOOD THRESHOLD (ITEM NO. 2) SHOWN.
ALUMINUM THRESHOLD (ITEM NO. 15 & 16) ALSO
APPROVED

PROJECT NO. ACE-2024-107

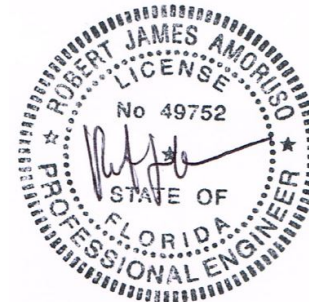
MW MIL WORKS, LLC
7225 PEPPERMILL PARKWAY
NORTH CHARLESTON, SC 29418
TITLE: SERIES WOOD INSWING L.M. IMPACT ENTRY DOOR SYTEM
ANCHOR DETAILS - THROUGH FRAME

DRAWN BY: JRM
SCALE: N.T.S.
REV: A

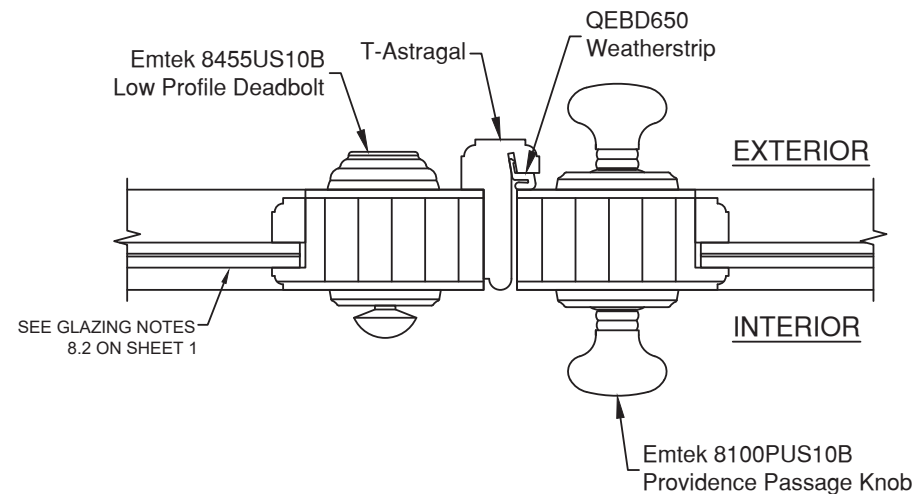
DATE: 05-28-2021
DRAWING NO: MWM-001
SHEET: 9 OF 12

ROBERT J. AMORUSO
FLORIDA P.E. NO. 49752
226 N. NOVA RD., #142
ORMOND BEACH, FL 32174
RJAENGPE@GMAIL.COM

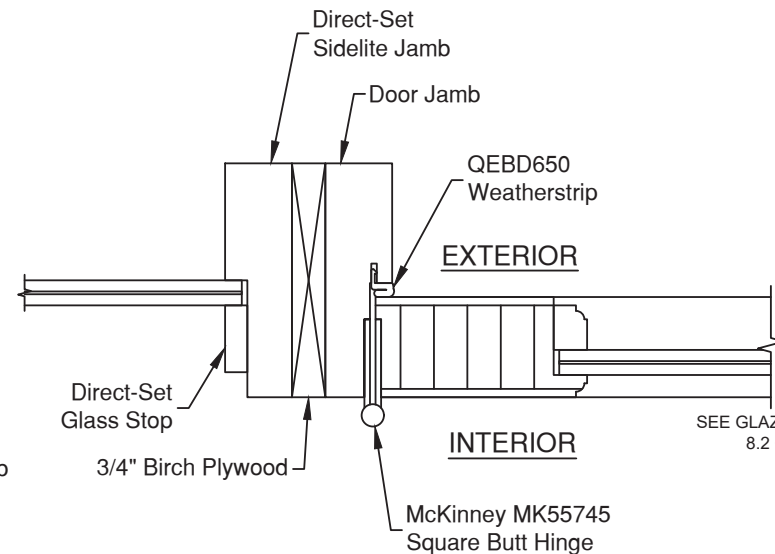
ROBERT J. AMORUSO
FL. P.E. NO. 49752



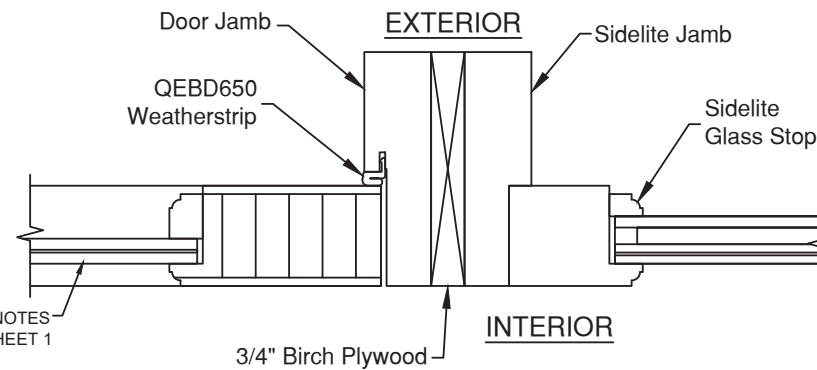
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Date: 2024.03.09
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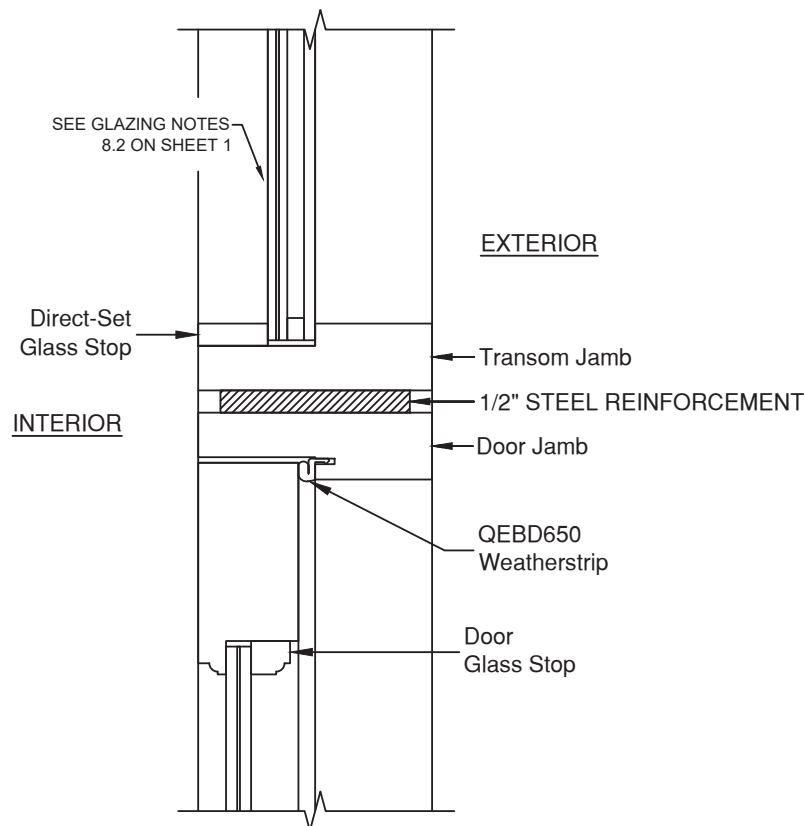
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**INSWING DOOR W/ T-ASTRAGAL
HORIZONTAL DETAIL**



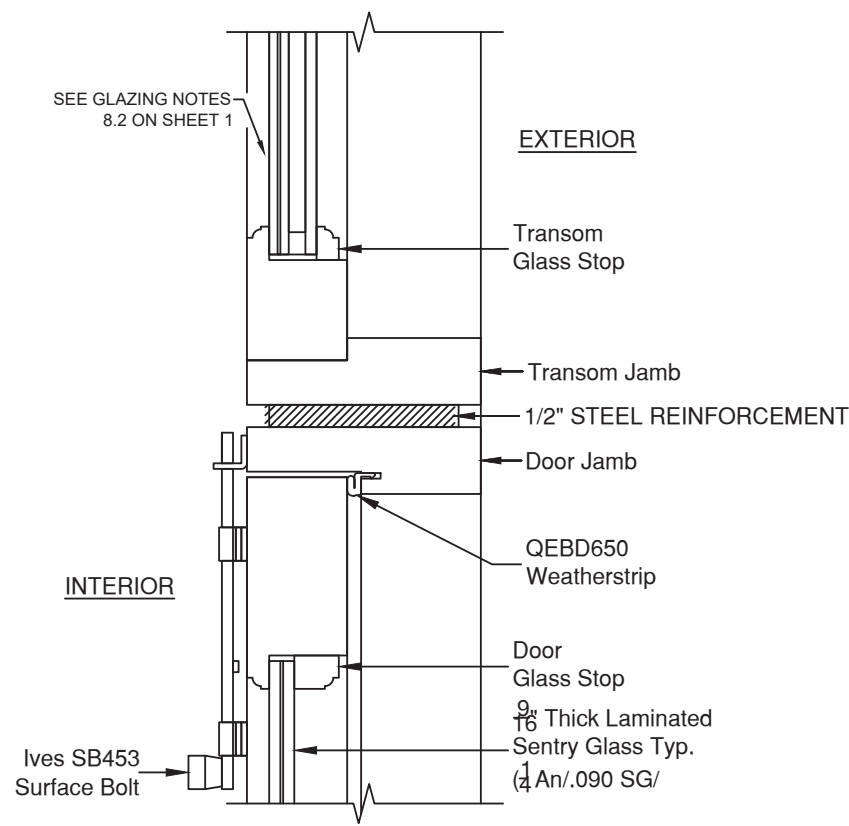
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**VERTICAL MULL AT INSWING
DOOR & DIRECT SIDELITE
HORIZONTAL DETAIL**



J
10
**VERTICAL MULL AT INSWING
DOOR & SIDELITE
HORIZONTAL DETAIL**



O
10
**HORIZONTAL MULL W/ DOOR AND
DIRECT SET TRANSOM
HORIZONTAL DETAIL**

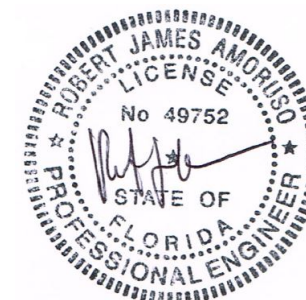


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**HORIZONTAL MULL W/ DOOR AND
TRANSOM HORIZONTAL DETAIL**

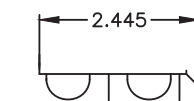
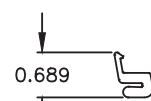
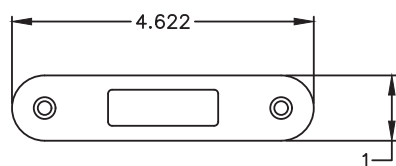
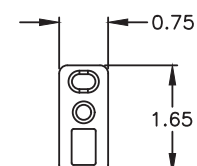
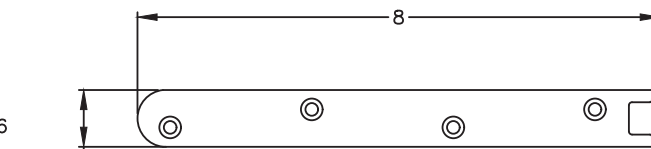
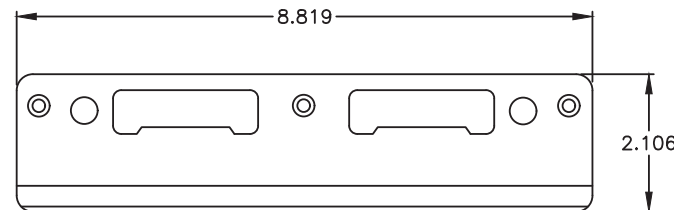
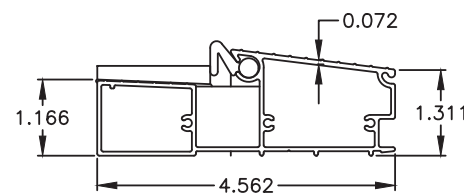
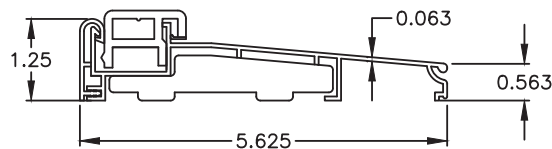
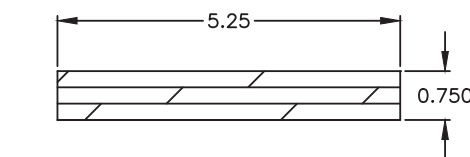
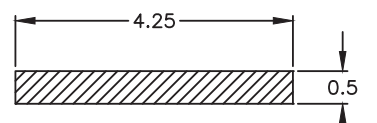
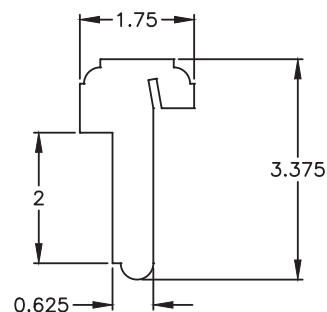
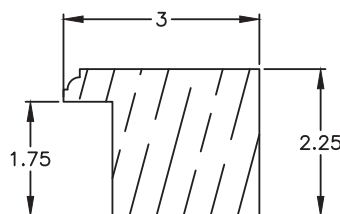
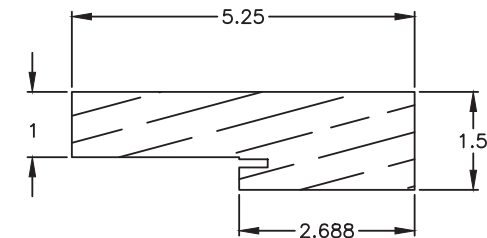
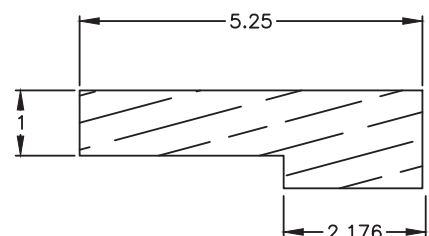
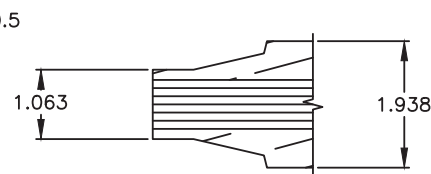
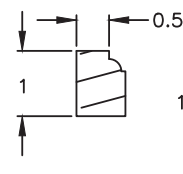
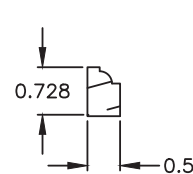
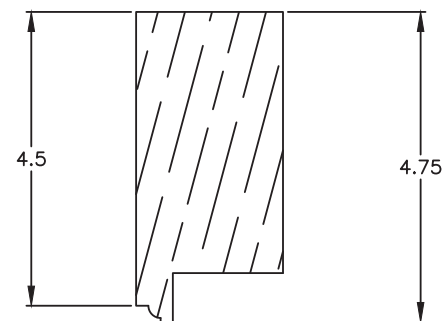
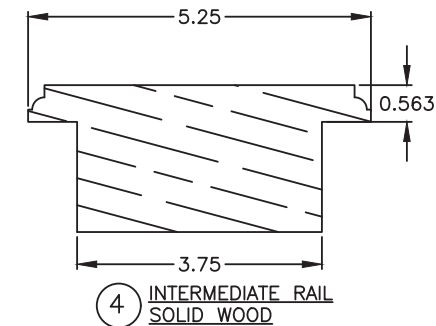
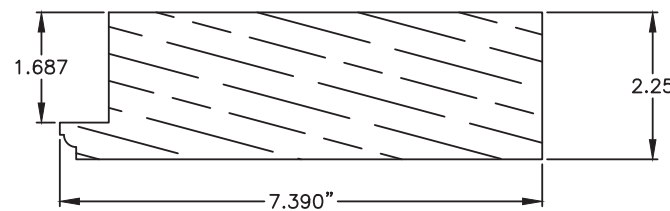
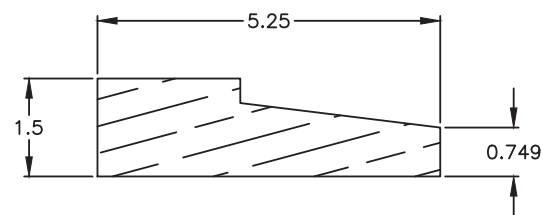
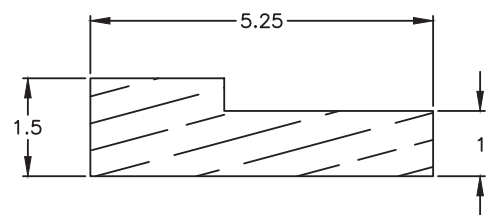
PROJECT NO. ACE-2024-107					

MW MIL WORKS, LLC 7225 PEPPER MILL PARKWAY NORTH CHARLESTON, SC 29418 TITLE: SERIES WOOD INSWING L.M. IMPACT ENTRY DOOR SYTEM HORIZONTAL SECTION DETAILS	DRAWN BY: JRM	DATE: 05-28-2021	DRAWING NO: MWM-001	SHEET: 10 OF 12	REV: A

ROBERT J. AMORUSO
FL. P.E. NO. 49752



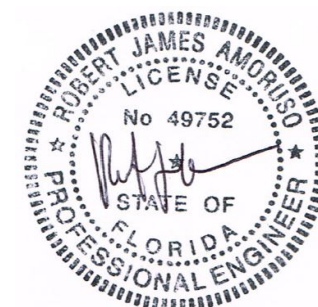
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PROJECT NO. ACE-2024-107				
A	UPDATE TO 8TH ED. (2023) FBC	3/4/24	RJA	
REV	DESCRIPTION	DATE	BY	

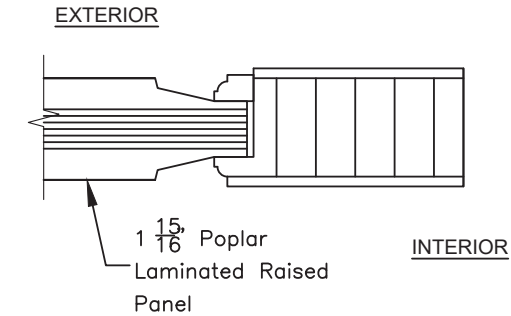
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DRAWN BY: JRM		DATE: 05-28-2021	
SCALE: N.T.S.		DRAWING NO: MWM-001	
REV: A		SHEET: 11 OF 12	
ROBERT J. AMORUSO FLORIDA P.E. NO. 49752 226 N. NOVA RD., #142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM			

ROBERT J. AMORUSO
FL. P.E. NO. 49752

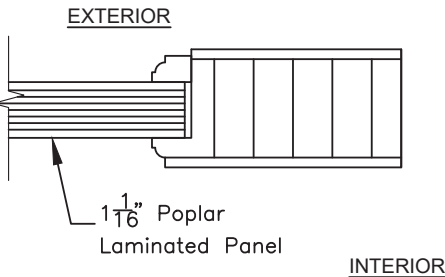


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by Robert J
Amoruso
Date: 2024.03.09
16:55:21 -05'00'

QTY.	PART NO.	PARTS DESCRIPTION	MANUFACTURER
1	-----	DIRECT SET THRESHOLD, SOLID WOOD	MW MILLWORKS
2	-----	INSWING WOOD SILL, SOLID WOOD	MW MILLWORKS
3	-----	BOTTOM RAIL, INSWING, SOLID WOOD	MW MILLWORKS
4	-----	INTERMEDIATE RAIL, SOLID WOOD	MW MILLWORKS
5	-----	TOP RAIL, SOLID WOOD	MW MILLWORKS
6	-----	PANEL / GLASS STOPS, SOLID WOOD	MW MILLWORKS
7	-----	RAISED PANEL, LAMINATED WOOD	MW MILLWORKS
8	-----	HEAD AND SIDE DIRECT SET PANEL, S. WOOD	MW MILLWORKS
9	-----	HEAD AND SIDE JAMB, SOLID WOOD	MW MILLWORKS
10	-----	STILE, LAMINATED WOOD	MW MILLWORKS
11	-----	FIXED SMALL STILE, SOLID WOOD	MW MILLWORKS
12	-----	ASTRAGAL, SOLID WOOD	MW MILLWORKS
13	-----	HOR. MULL REINFORCEMENT, A36 STEEL	MW MILLWORKS
14	-----	VERTICAL MULL REINFORCEMENT, PLYWOOD	MW MILLWORKS
QTY.	PART NO.	HARDWARE	MANUFACTURER
15	-----	INSWING ALUMINUM SILL, Z SERIES ADJ.	ENDURA
16	-----	ALUMINUM THRESHOLD, SERIES 2200	SCHLEGAL
17	-----	LATCH AND DEADBOLT STRIKE, ST. STEEL	PURCHASE
18	-----	HIGH PERFORMANCE COVER PLATE, S. STEEL	PURCHASE
19	-----	SHOOTBOLT STRIKES, STAINLESS STEEL	PURCHASE
20	-----	SWING HOOK STRIKE	HOPPE, HLS 9000
21	-----	MULTI-POINT LOCK, 5-POINT SYS, H. SHOOT	HOPPE HS 9000
22	-----	2-POINT LOCK SYSTEM-INACTIVE PNL	HOPPE HL 9000
23	-----	DEADBOLT, LOW PROFILE	EMTEK 8455
24	-----	DEADBOLT	BALDWIN 8231102
25	-----	SURFACE BOLT, SB453	IVES
26	-----	PASSAGE LATCH	BALDWIN 8231102
27	-----	PASSAGE LATCH	EMTEK 8100
28	-----	CORNER PAD	ENDURA
29	-----	SQUARE BUTT HINGE	MCKINNEY T2714

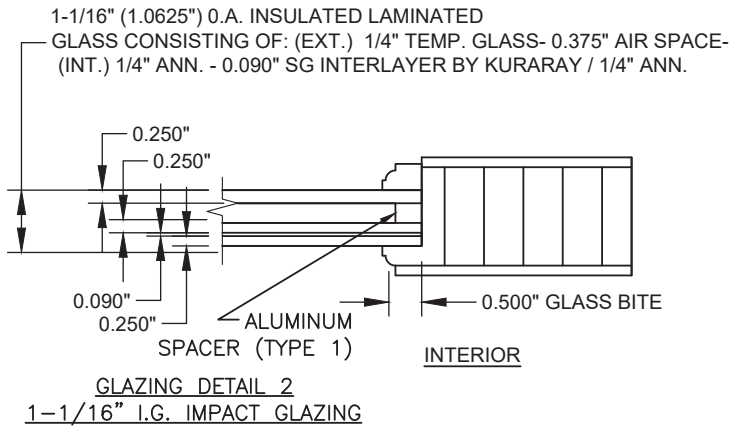


P
12 **OPAQUE LAMINATED RAISED
PANEL DETAIL**

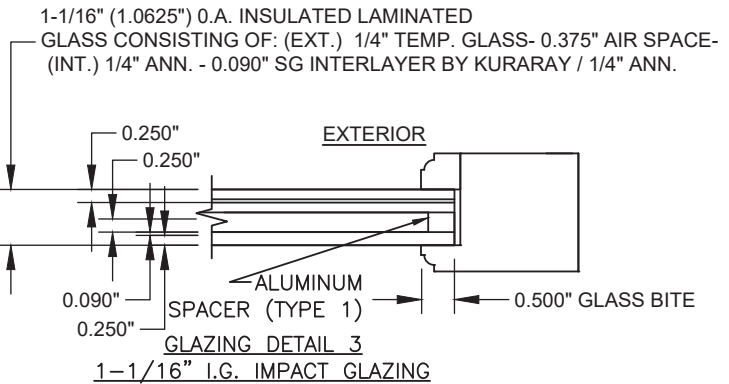


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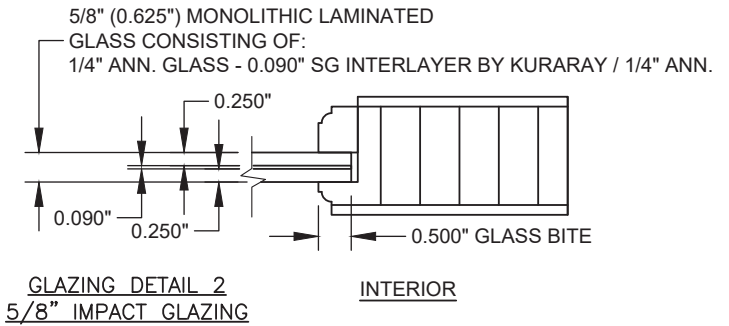
QTY.	PART NO.	SEAL AND SEALANTS	MANUFACTURER
30	-----	WEATHER SEAL	QEBD 650
31	-----	DOOR SWEEP	ENDURA DBS 214
QTY.	PART NO.	MISCELLANEOUS FASTENERS	MANUFACTURER
15	-----	#12 X 3" WOOD SCREW, STEEL	PURCHASE
16	-----	#12 X 2" WOOD SCREW, STAINLESS STEEL	PURCHASE
17	-----	#8 X 2" WOOD SCREW, STEEL	PURCHASE
18	-----	1/4" DIAMETER TAPCON, STEEL	I.T.W.



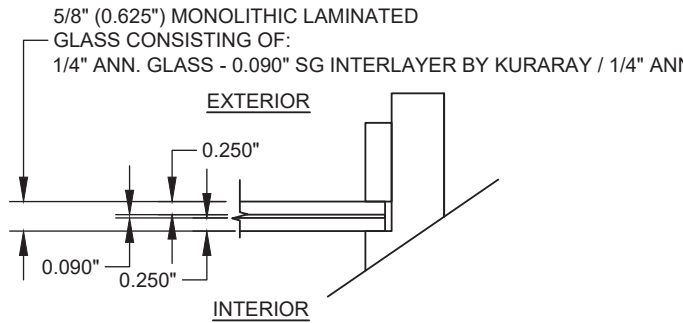
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12 **GLAZED LAMINATED INSULATED
PANEL DETAIL**



S
12 **GLAZED LAMINATED INSULATED
PANEL DETAIL, W/ SIDELITE**

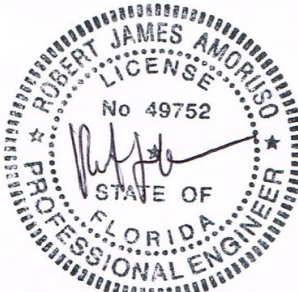


R
12 **GLAZED LAMINATED
PANEL DETAIL**



S
12 **GLAZED LAMINATED
PANEL DETAIL W/ DIRECT SET**

ROBERT J. AMORUSO
FL. P.E. NO. 49752



Digitally signed by
Robert J Amoruso
Date: 2024.03.09
16:55:35 -05'00'

PROJECT NO. ACE-2024-107				RJA	BY
				3/4/24	DATE
			UPDATE TO 8TH ED. (2023) FBC	A	DESCRIPTION
				REV	
MW MILWORKS, LLC 7225 PEPPERMILL PARKWAY NORTH CHARLESTON, SC 29418 TITLE: SERIES WOOD INSWING L.M. IMPACT ENTRY DOOR SYTEM BILL OF MATERIALS & GLAZING DETAILS	DRAWN BY:	JRM	DATE:	05-28-2021	
	SCALE:	N.T.S.	DRAWING NO:	MWM-001	
	REV:	A	SHEET:	12 OF 12	
	ROBERT J. AMORUSO FLORIDA P.E. NO. 49752 226 N. NOVA RD., #142 ORMOND BEACH, FL 32174 RJAENGPE@GMAIL.COM				