

MAJESTIC ENTRIES, LLC

LOYAL IRON OUTSWING STEEL DOUBLE DOORS

(HVHZ)(IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN UNLESS OTHERWISE NOTED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION INTO WOOD FRAMING USE **3/8" LAG SCREWS** OF SUFFICIENT LENGTH TO ACHIEVE 3 INCH MINIMUM EMBEDMENT INTO WOOD SUBSTRATE.
- FOR 2X WOOD BUCK INSTALLATION TO CONCRETE/MASONRY, USE TWO (2) 1/4 INCH DIAMETER ITW TAPCONS PER INSTALLATION LOCATION OF SUFFICIENT LENGTH TO ACHIEVE 1 1/4 INCH MINIMUM EMBEDMENT.
- FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE/MASONRY, OR DIRECTLY INTO CONCRETE/MASONRY, USE **3/8 INCH DEWALT POWER-BOLT** OF SUFFICIENT LENGTH TO ACHIEVE 2 INCH MINIMUM EMBEDMENT.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THECURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- 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.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE RER.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- FRAME MATERIAL: ASTM A287 LOW CARBON STEEL
 - Fymin= 29.7 KSI
 - Fymax= 55.0 KSI
- STEEL COMPONENTS SHALL BE COATED OR PROVIDED WITH CORROSION RESISTANCE PROTECTION IN CONFORMANCE WITH THE MATERIAL PROTECTION PROVISIONS OF FBC CHAPTER 22.
- ALL EXPOSED STEEL COMPONENTS ARE SHOP PRIMED.
- IRON WORK SUCH AS DECORATIVE GRILLES, ETC. IS NOT PART OF THIS APPROVAL.
- GLASS MEETS THE REQUIREMENTS OF ASTM E 1300 GLASS CHARTS. SEE SHEET 3 FOR GLAZING DETAIL.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATION, ANCHOR LAYOUT, AND ISOMETRIC ELEVATION
3	VERTICAL SECTIONS & GLAZING DETAIL
4	HORIZONTAL SECTIONS
5	HORIZONTAL SECTIONS
6	COMPONENTS & BILL OF MATERIALS

DESIGN PRESSURE RATING			
GLASS TYPE	DESIGN PRESSURE - ALL SIZES		MISSILE IMPACT RATING
1	+66.70 / -67.50 PSF	W/ WATER INFILTRATION	LARGE & SMALL MISSILE IMPACT RATED



1005 ALDERMAN DR.
ALPHARETTA, GA 30005 SUITE 112
(770) 622-0554

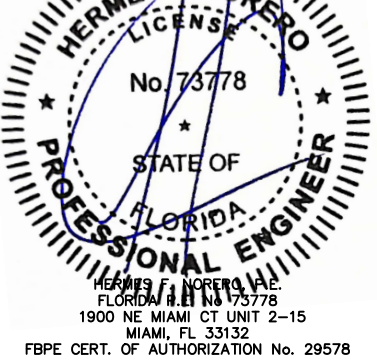
TITLE:
LOYAL IRON O/S
GLAZED STEEL DOOR
(HVHZ)(IMPACT)
INSTALLATION & GENERAL NOTES

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
ADD THRU JAMB INSTALL.	LS	01.12.17
7th FBC EDITION	NUS	11.09.20
8th FBC EDITION	FB	01.19.24

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2024.02.29 16:13:30 -0800



FL #:
FL 15514

DATE: **03.12.12**

DWG. BY: **JLA** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **MED001**

SHEET
1 OF 6



1005 ALDERMAN DR.
ALPHARETTA, GA 30005 SUITE 112
(770) 622-0554

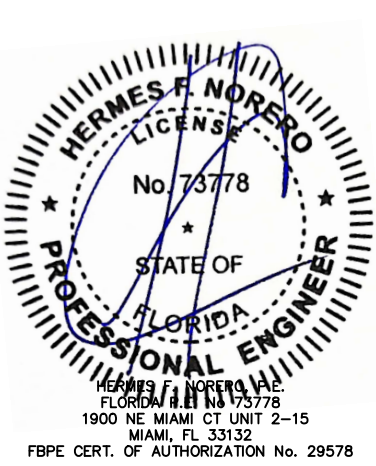
LOYAL IRON O/S
GLAZED STEEL DOOR
(HVHZ)(IMPACT)

ELEVATION, ANCHOR LAYOUT,
AND ISOMETRIC ELEVATION

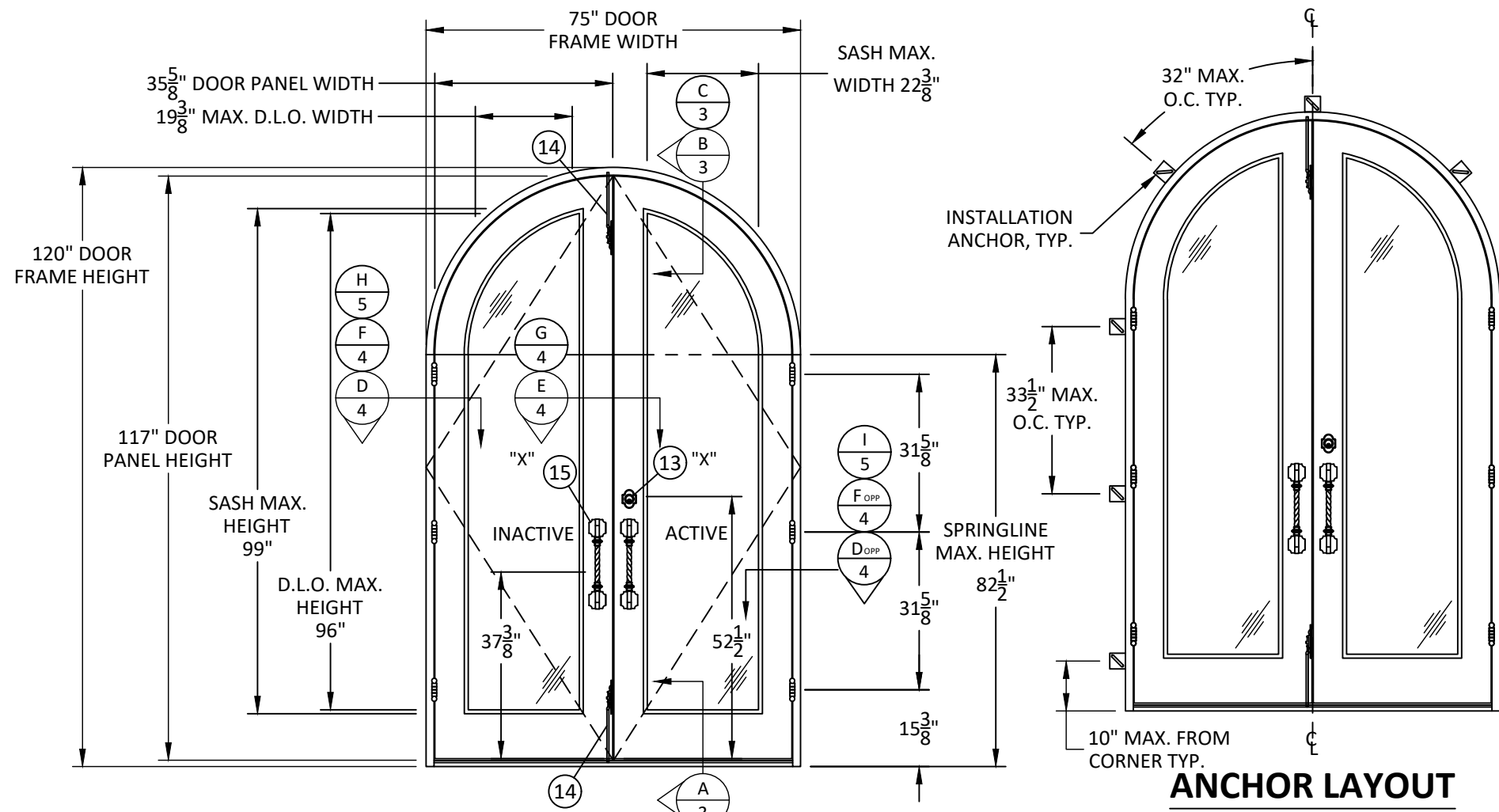
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
ADD THRU JAMB INSTALL.	LS	01.12.17
7th FBC EDITION	NUS	11.09.20
8th FBC EDITION	FB	01.19.24

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

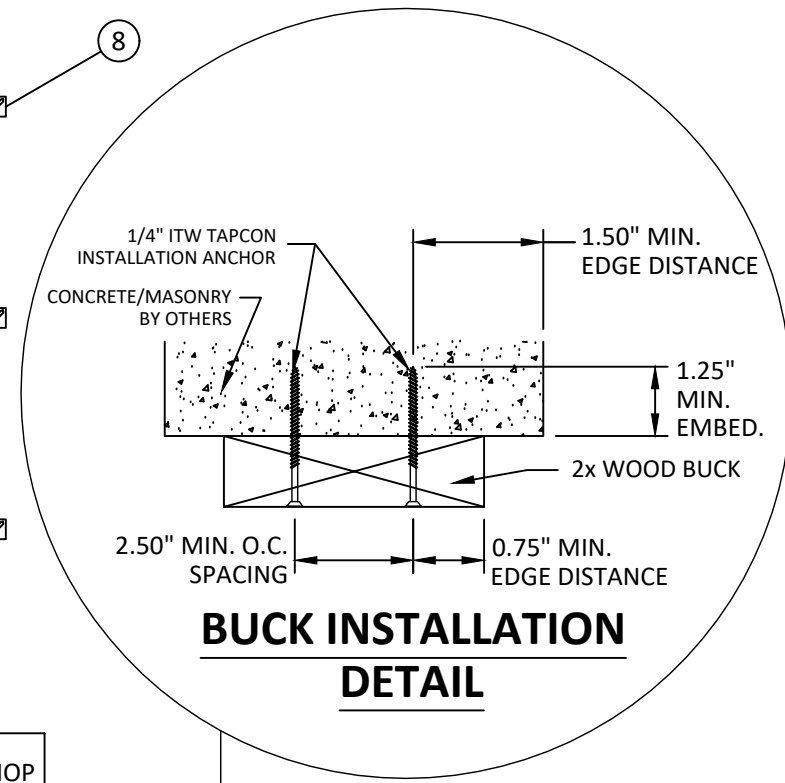


FL #:	FL 15514
DATE:	03.12.12
DWG. BY:	JLA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	MED001
SHEET	

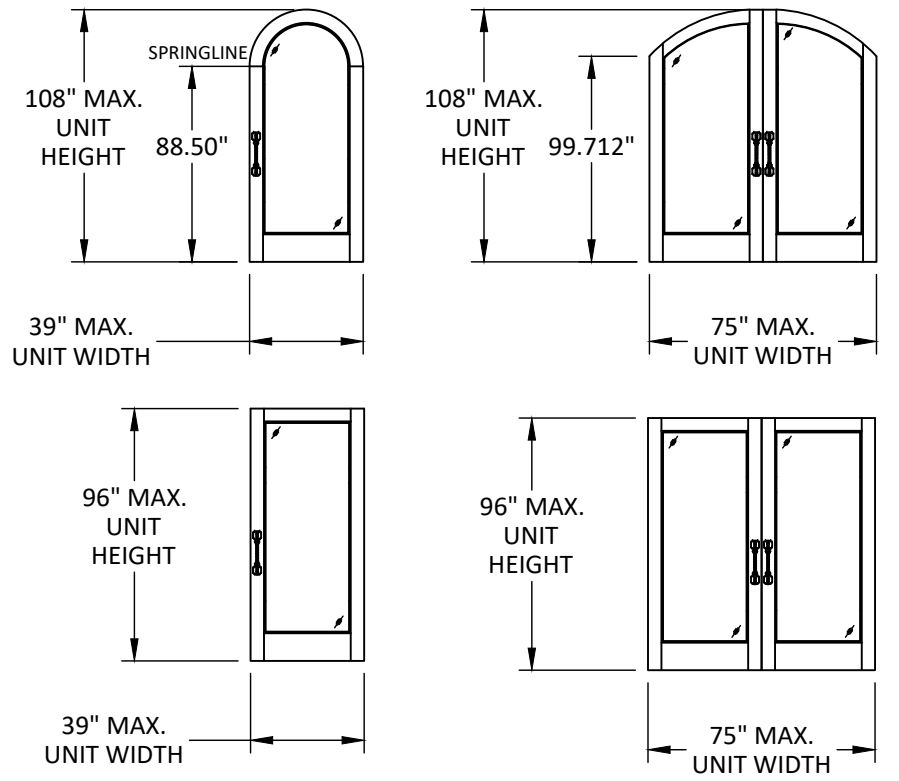


ELEVATION

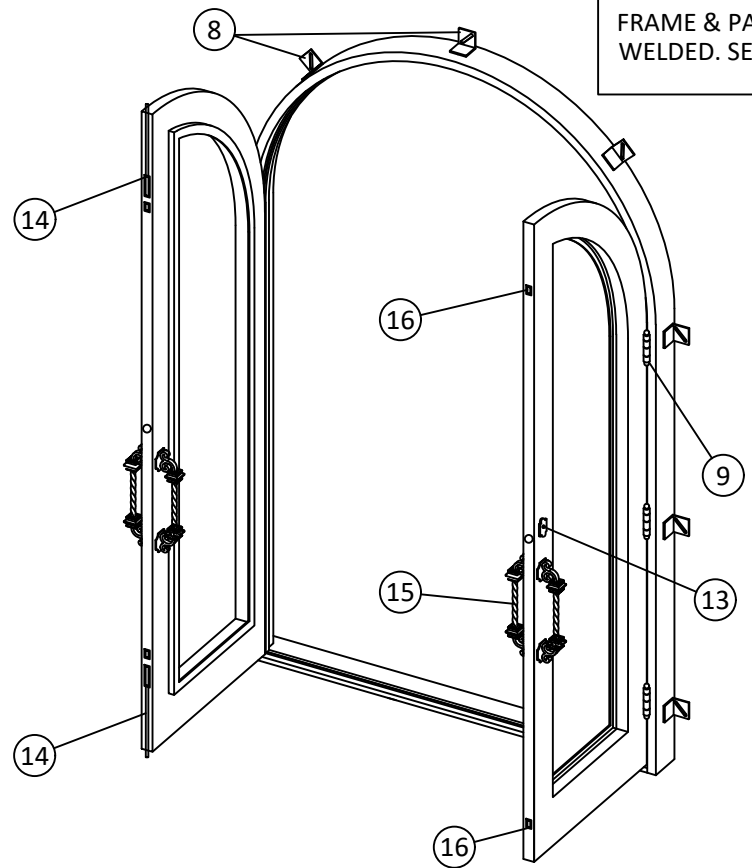
ANCHOR LAYOUT



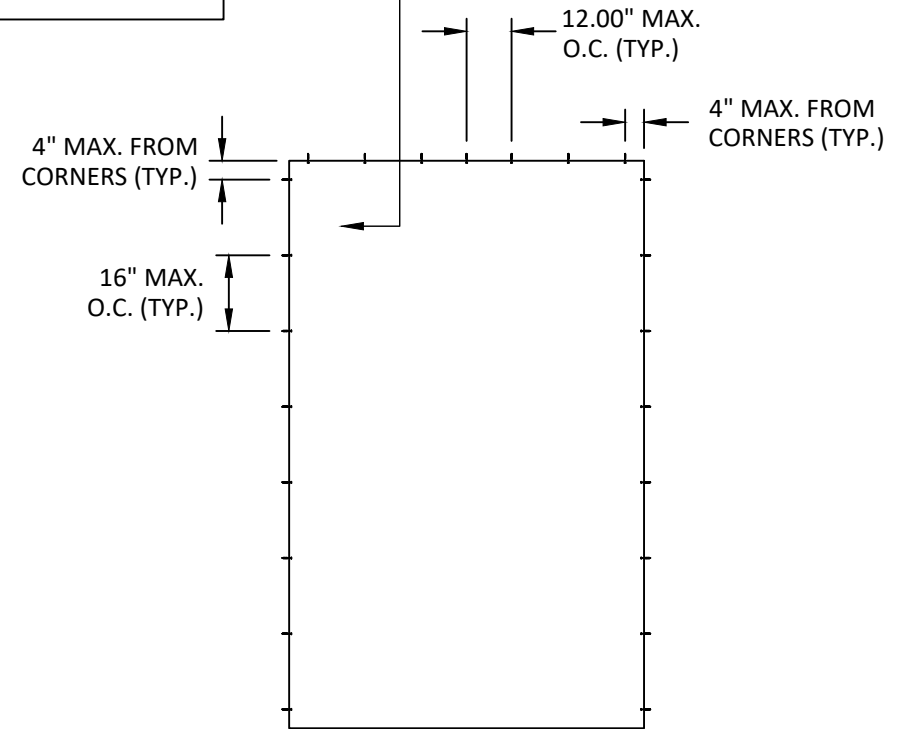
BUCK INSTALLATION DETAIL



ADDITIONAL QUALIFIED CONFIGURATIONS

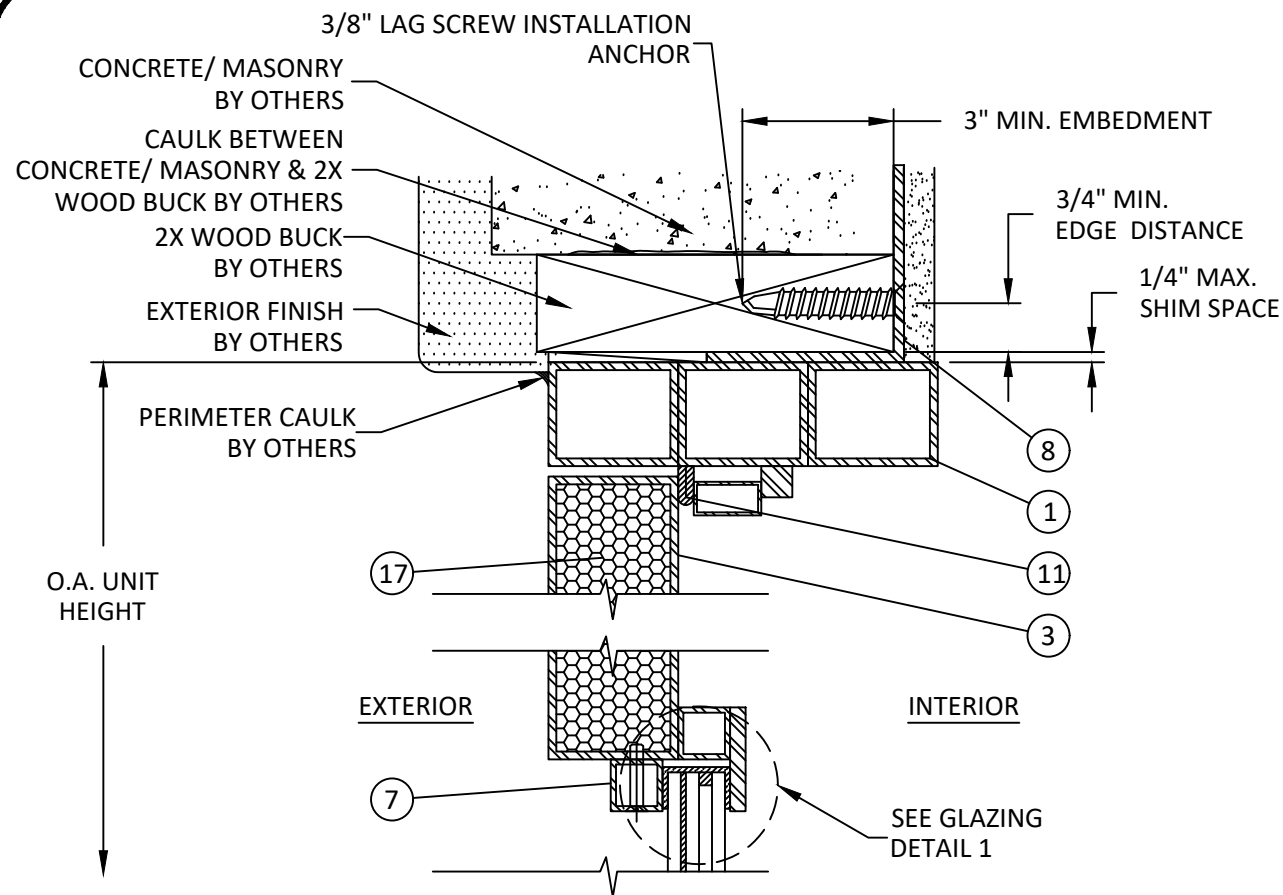


ISOMETRIC ELEVATION

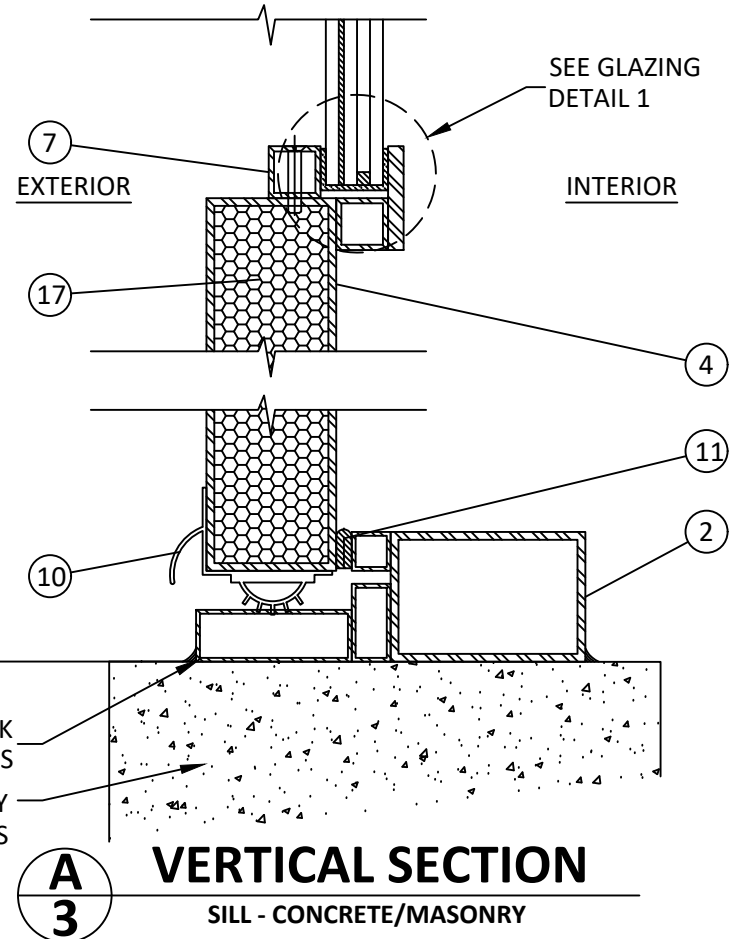


BUCK INSTALLATION ANCHOR LAYOUT

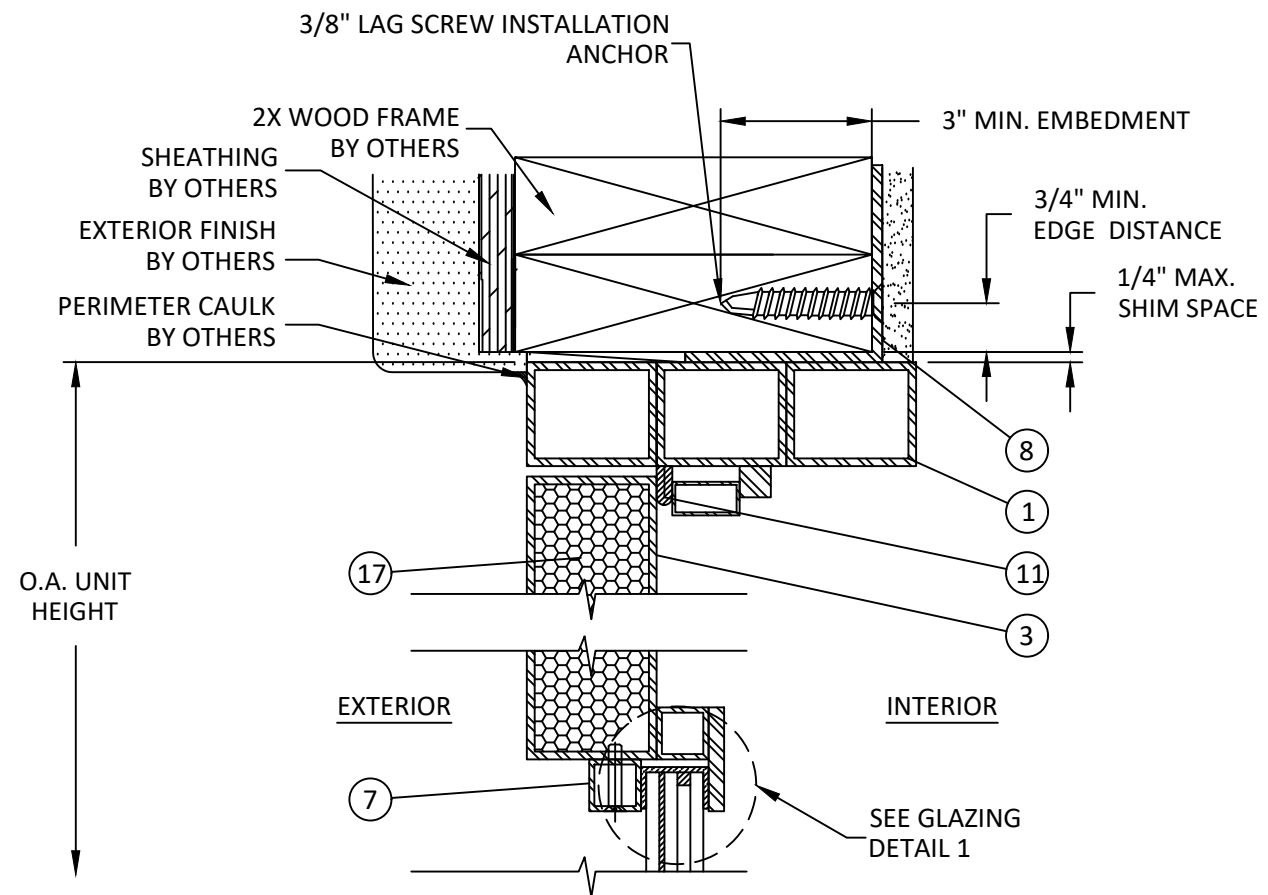
FRAME & PANEL CORNERS ARE SHOP WELDED. SEE NOTES ON SHEET 6.



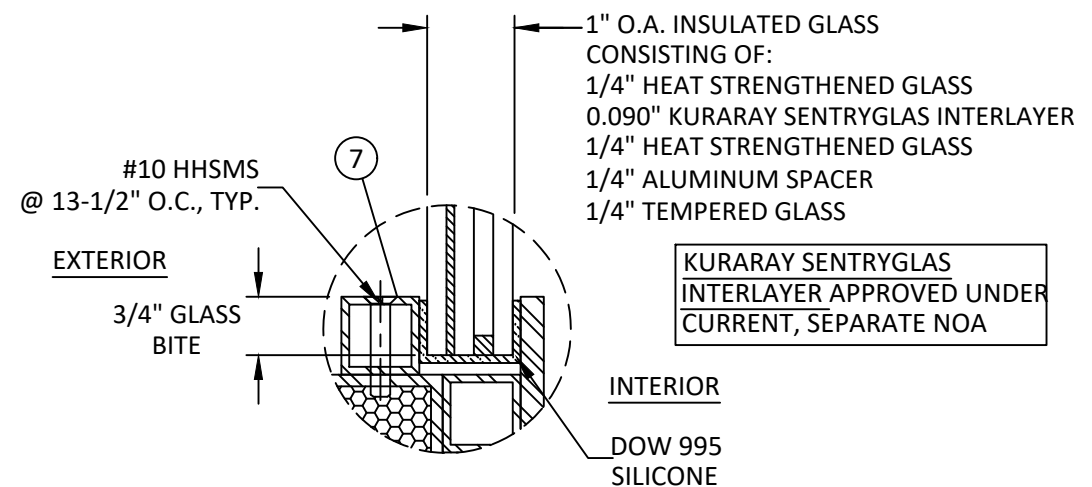
**B
3** VERTICAL SECTION
HEAD - 2X WOOD BUCK



**A
3** VERTICAL SECTION
SILL - CONCRETE/MASONRY



**C
3** VERTICAL SECTION
HEAD - 2X WOOD FRAME



GLAZING DETAIL 1

- GLAZING NOTES:
1. GLASS TYPE & THICKNESS COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC.
 2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A).
 3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36".
 4. DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN DESIGN PRESSURE TABLE ON SHEET 1.



1005 ALDERMAN DR.
ALPHARETTA, GA 30005 SUITE 112
(770) 622-0554

TITLE: LOYAL IRON O/S
GLAZED STEEL DOOR
(HVHZ)(IMPACT)

VERTICAL SECTIONS & GLAZING DETAIL

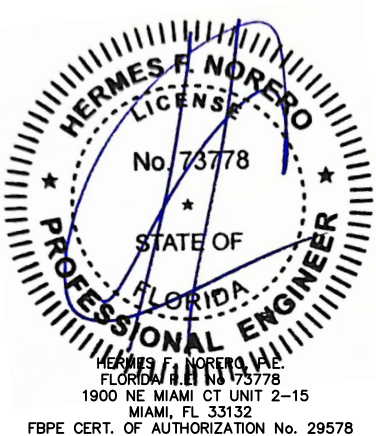
PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
ADD THRU JAMB INSTALL.	LS	01.12.17
7th FBC EDITION	NUS	11.09.20
8th FBC EDITION	FB	01.19.24

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:	FL 15514
DATE:	03.12.12
DWG. BY:	CHK. BY:
JLA	HFN
SCALE:	NTS
DWG. #:	MED001
SHEET	



1005 ALDERMAN DR.
ALPHARETTA, GA 30005 SUITE 112
(770) 622-0554

TITLE:
LOYAL IRON O/S
GLAZED STEEL DOOR
(HVHZ)(IMPACT)

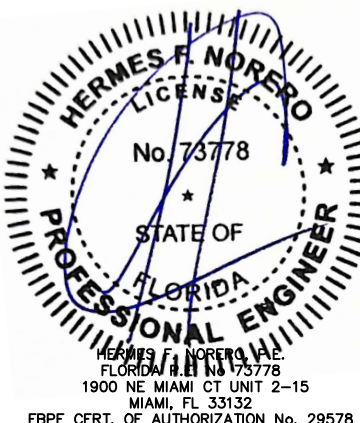
HORIZONTAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

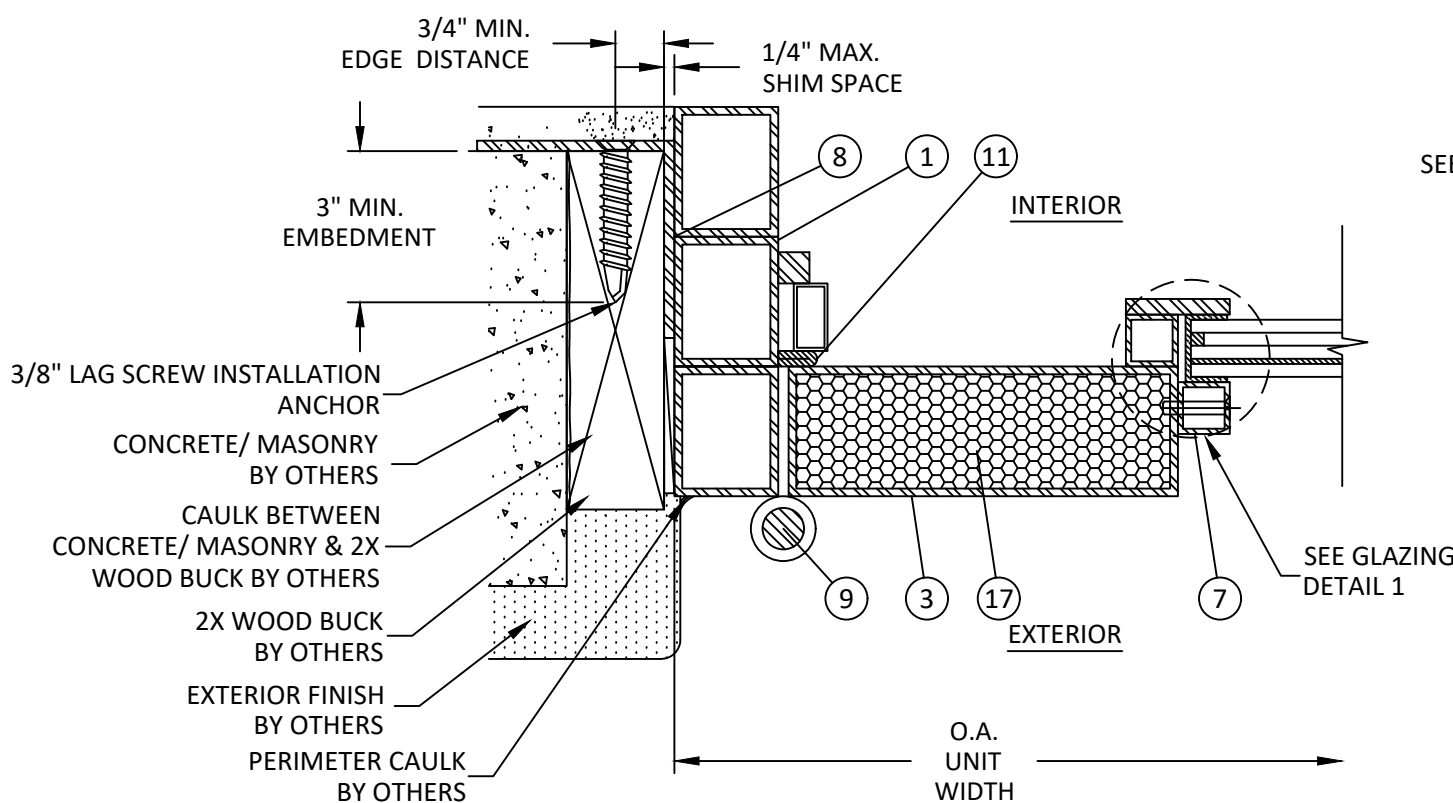


REMARKS	BY	DATE
ADD THRU JAMB INSTALL.	LS	01.12.17
7th FBC EDITION	NUS	11.09.20
8th FBC EDITION	FB	01.19.24

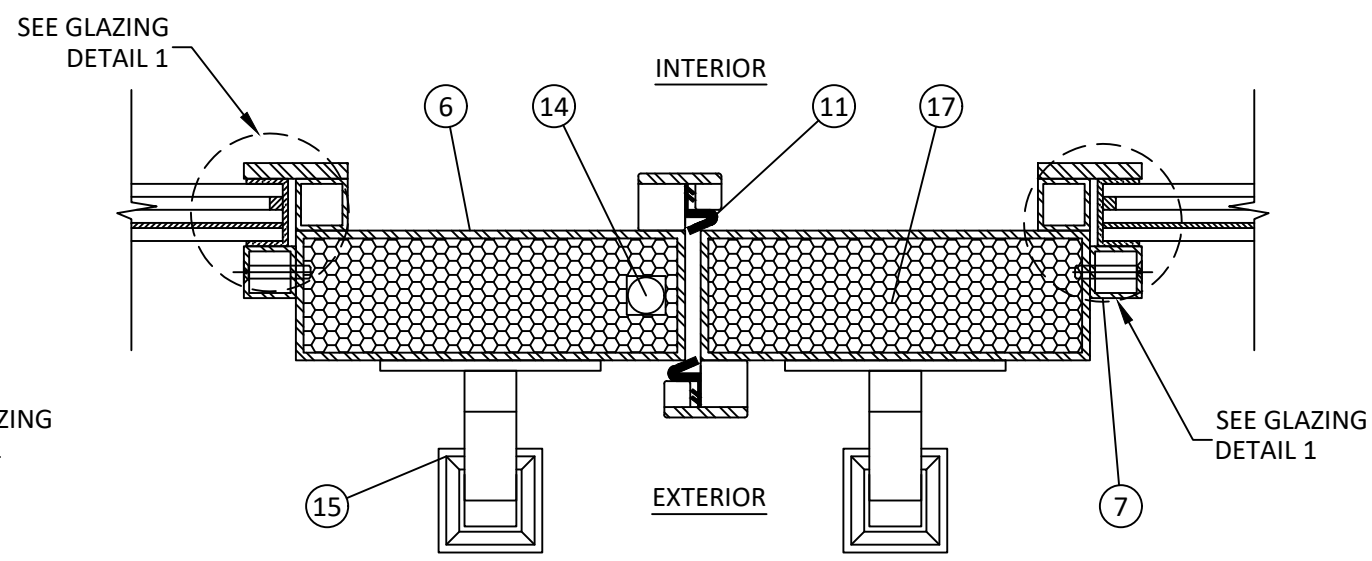
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



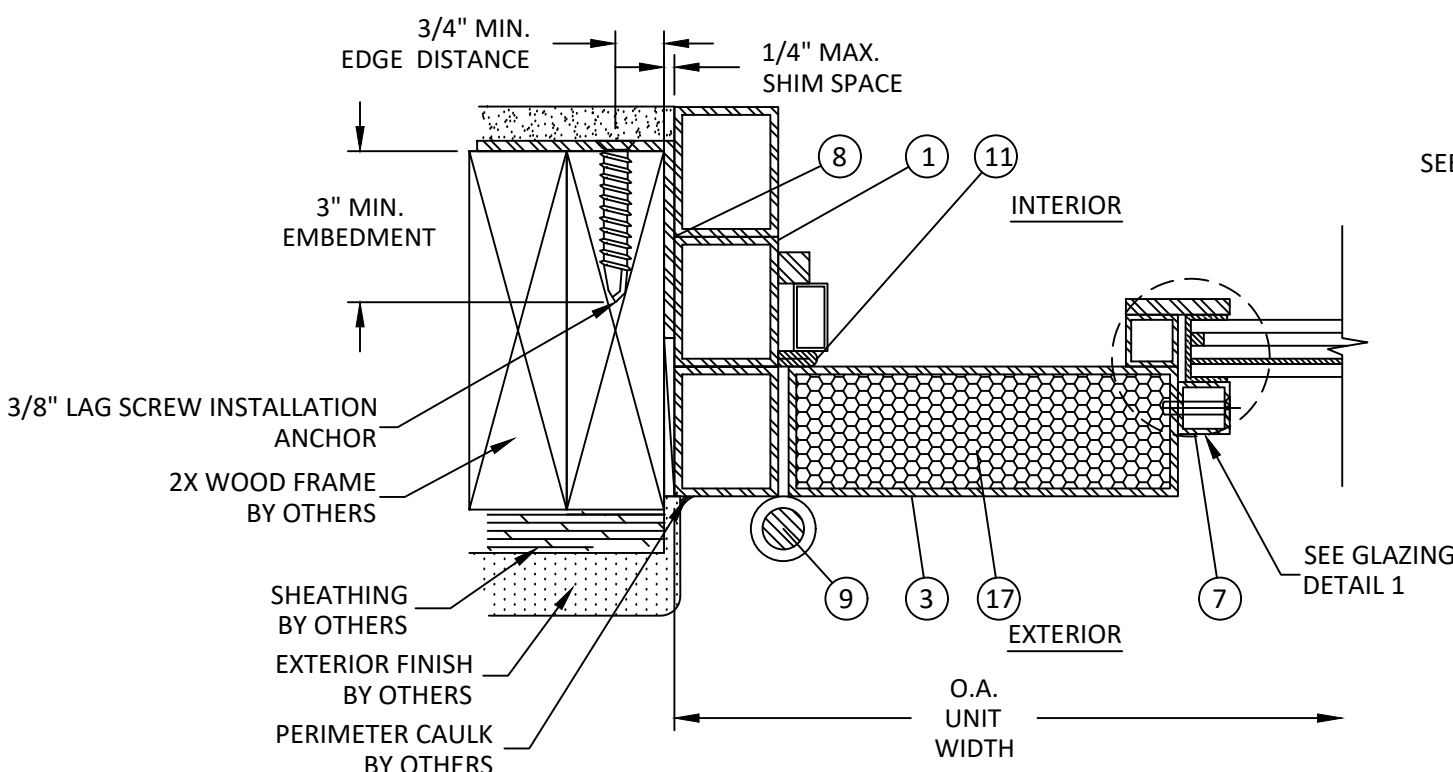
FL #:	FL 15514
DATE:	03.12.12
DWG. BY:	JLA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	MED001
SHEET	



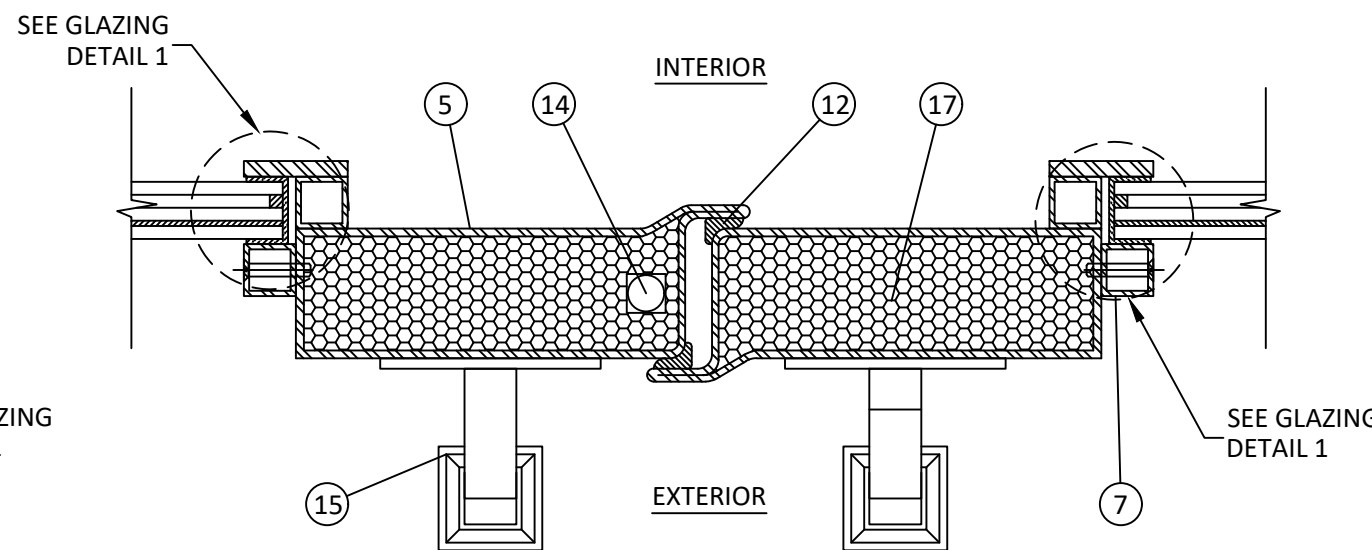
D
4 HORIZONTAL SECTION
JAMB - 2X WOOD BUCK, TYP.



E
4 HORIZONTAL SECTION
ASTRAGAL-WELDED TAB



F
4 HORIZONTAL SECTION
JAMB - 2X WOOD FRAME, TYP.



G
4 HORIZONTAL SECTION
ASTRAGAL-CRIMPED



1005 ALDERMAN DR.
ALPHARETTA, GA 30005 SUITE 112
(770) 622-0554

LOYAL IRON O/S
GLAZED STEEL DOOR
(HVHZ)(IMPACT)

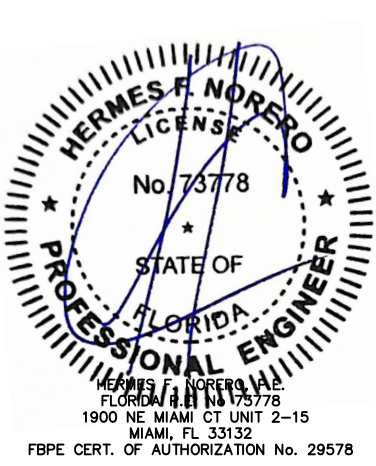
HORIZONTAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

B.D.
BUILDING DROPS

REMARKS	BY	DATE
ADD THRU JAMB INSTALL.	LS	01.12.17
7th FBC EDITION	NUS	11.09.20
8th FBC EDITION	FB	01.19.24

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:
FL 15514

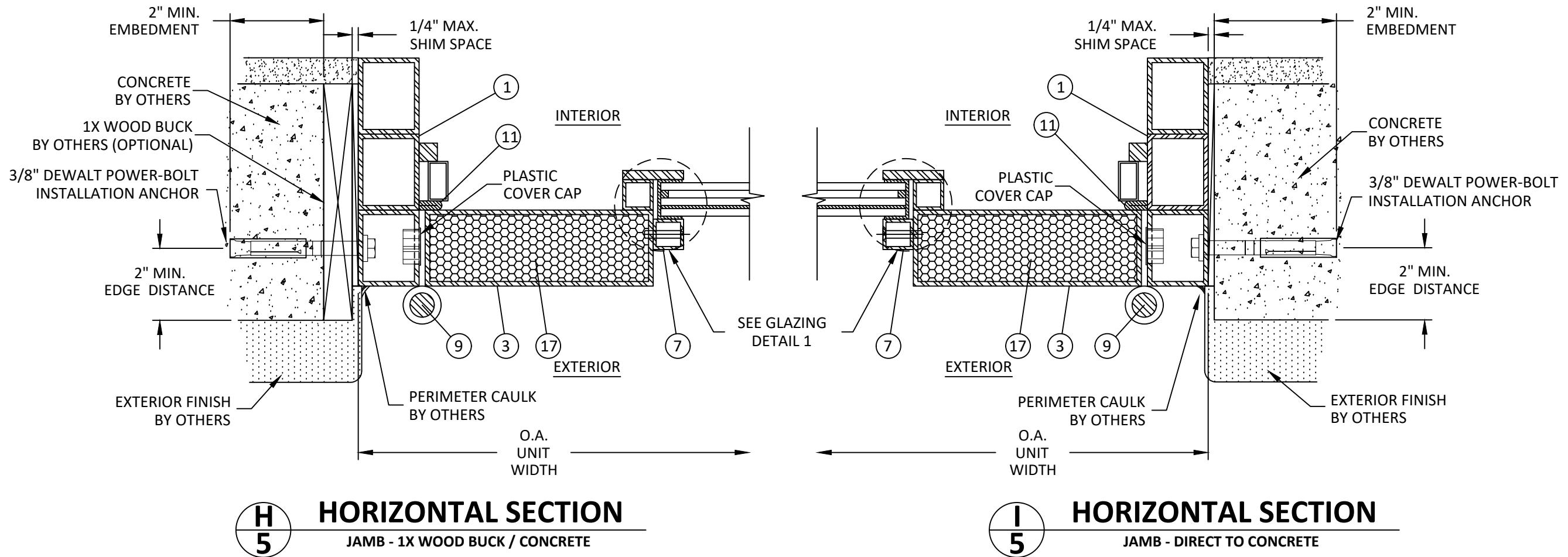
DATE: **03.12.12**

DWG. BY: **JLA** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **MED001**

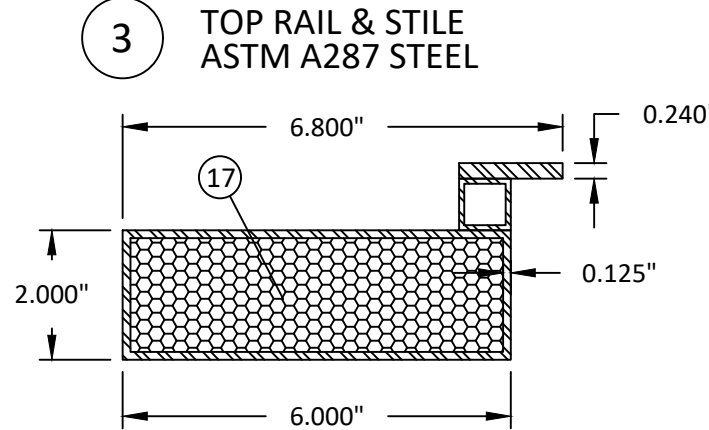
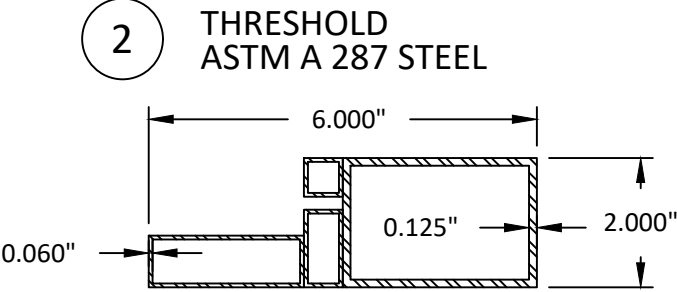
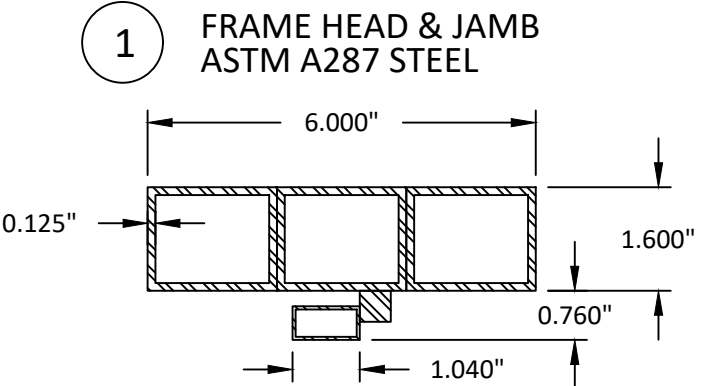
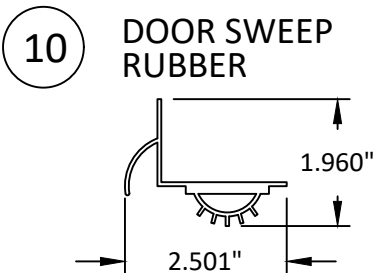
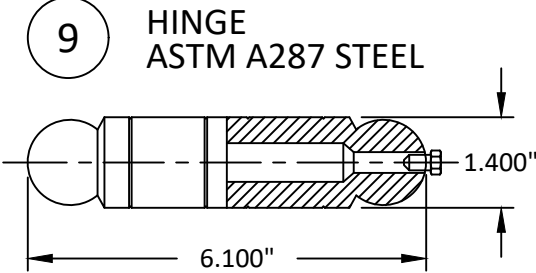
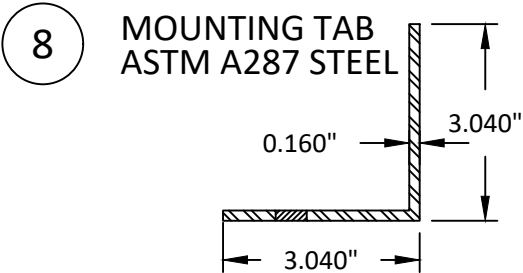
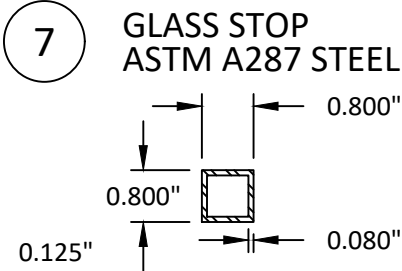
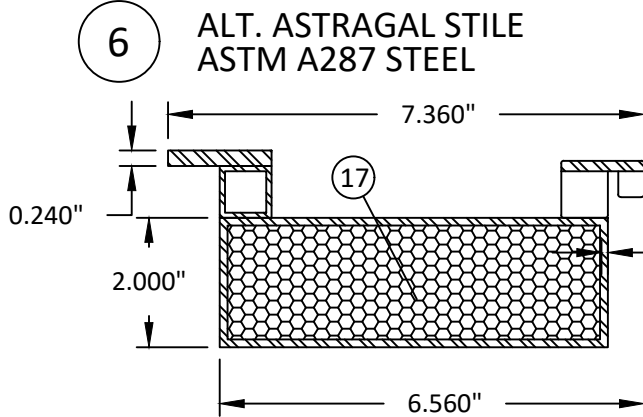
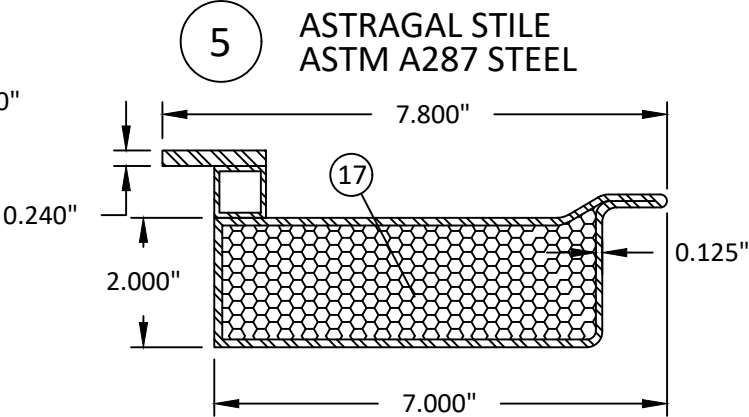
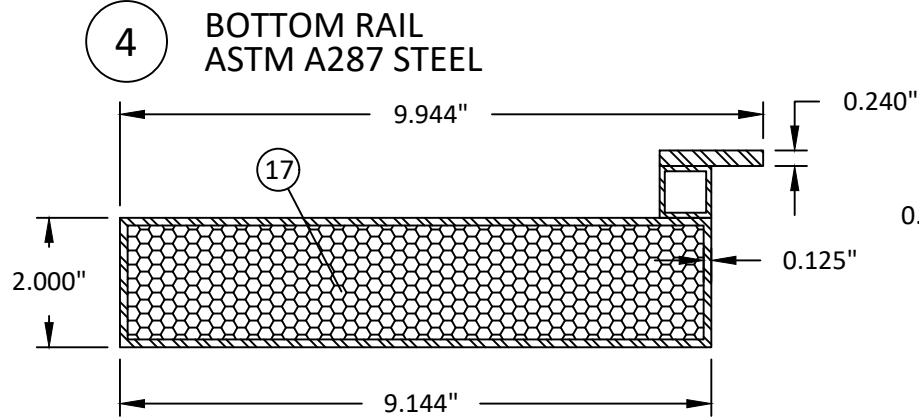
SHEET



BILL OF MATERIALS				
ITEM NO.	DESCRIPTION	PARTS NUMBERS	MATERIAL	MANUFACTURER
1	FRAME HEAD & JAMB	RM1-FH & FJ	STEEL	MAJESTIC
2	THRESHOLD	RM1-DT	STEEL	MAJESTIC
3	TOP RAIL & STILE	---	STEEL	MAJESTIC
4	BOTTOM RAIL	---	STEEL	MAJESTIC
5	ASTRAGAL STILE	RM2-T	STEEL	MAJESTIC
6	ALT. ASTRAGAL STILE	---	STEEL	MAJESTIC
7	GLASS STOP	RM4-010	STEEL	MAJESTIC
8	MOUNTING TAB	RM1-004	STEEL	MAJESTIC
9	HINGE	RM8-M & F	STEEL	MAJESTIC
10	DOOR SWEEP	RM11-004	RUBBER	YONGTAI
11	WEATHERSTRIPPING	RM11-001	FOAM	SCHLEGEL
12	ASTRAGAL WEATHERSTRIPPING	RM11-006	FOAM	SCHLEGEL
13	DEADBOLT LOCK	RM5-008	STEEL	WESLOCK
14	SHOOT BOLT	RM9-004	S.S	MAJESTIC
15	DOOR HANDLE	RM10	STEEL	MAJESTIC
16	ROLLER CATCH	RM6-1	STEEL	MAJESTIC
17	PANEL INSULATION	RM13-001	EPS	DYPLAST

NOTE:

- ALL STEEL COMPONENTS ARE ASTM A287 STEEL (Fymin=22.7 KSI, Fymax=55.0 KSI)
- ALL EXPOSED STEEL COMPONENTS ARE SHOP PRIMED.
- ALL WELDED COMPONENTS ARE SHOP WELDED USING E70XX ELECTRODE





1005 ALDERMAN DR.
ALPHARETTA, GA 30005 SUITE 112
(770) 622-0554

LOYAL IRON O/S
GLAZED STEEL DOOR
(HVHZ)(IMPACT)

TITLE:

COMPONENTS
& BILL OF MATERIALS

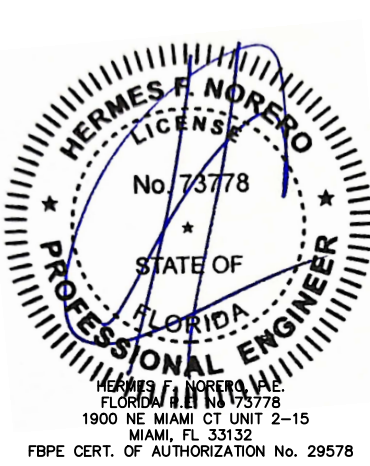
PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE
ADD THRU JAMB INSTALL.	LS	01.12.17
7th FBC EDITION	NUS	11.09.20
8th FBC EDITION	FB	01.19.24

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



HERMES F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
FLORIDA # 73778
1900 NE MIAMI CT UNIT 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL 15514
DATE:	03.12.12
DWG. BY:	JLA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	MED001
SHEET	