



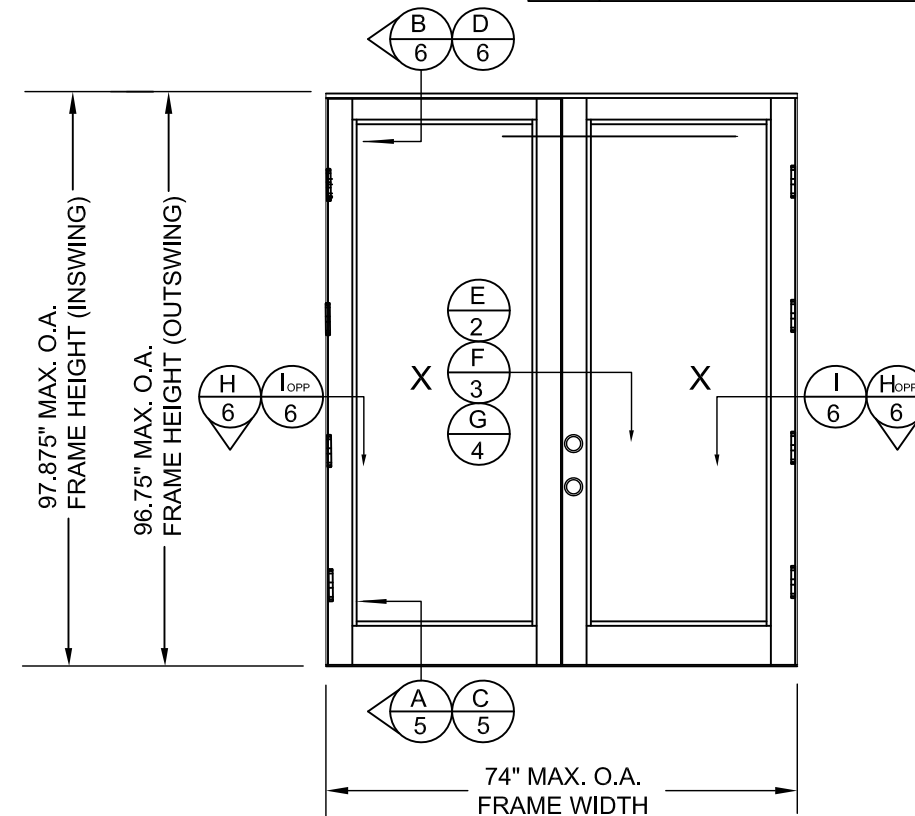
MASONITE GLAZED
8'-0" FIBERGLASS DOOR XX
INSWING / OUTSWING
IMPACT - HVHZ

GENERAL NOTES:

- THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE (FBC) STRUCTURAL REQUIREMENTS INCLUDING THE "HIGH VELOCITY HURRICANE ZONE" (HVHZ).
- PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING.
- INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF INSTALLATION METHODS DEVIATE FROM THESE APPROVED DETAILS FURTHER INVESTIGATION BY A LICENSED REGISTERED DESIGN PROFESSIONAL IS REQUIRED.
- ADEQUACY OF EXISTING STRUCTURAL CONCRETE / MASONRY AND 2X FRAMING PER INSTALLATION AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO FOUNDATION IS THE RESPONSIBILITY OF ENGINEER OR ARCHITECT OF RECORD.
- THIS PRODUCT IS IMPACT RATED AND DOES NOT REQUIRE IMPACT PROTECTION IN WIND BORNE DEBRIS REGIONS.
- OUTSWING DOOR CONDITIONS MEET WATER INFILTRATION REQUIREMENTS. ALL OTHER CONFIGURATIONS DO NOT MEET WATER INFILTRATION REQUIREMENTS AND MUST BE INSTALLED ONLY IN NON-HABITABLE AREAS OR AT HABITABLE LOCATIONS PROTECTED BY AN OVERHANG OR CANOPY SUCH THAT ANGLE BETWEEN EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES.
- ALL SYSTEM MEMBERS IN CONTACT WITH MASONRY/CONCRETE OR EXPOSED TO THE ENVIRONMENT SHALL BE TREATED WITH AN APPROVED PRESERVATIVE PER FBC CHAPTER 23.
- 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.
- APPROVED CONFIGURATIONS: X, XX

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SHEET NO.	DESCRIPTION
1	ELEVATION AND GENERAL NOTES
2 – 5	ASTRAGAL AND LOCK DETAILS
5	TRILLENIUM LOCKS FOR 8-0 DOORS
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7	INSTALLATION DETAILS
8	ANCHOR ELEVATIONS AND NOTES
9	COMPONENTS AND BILL OF MATERIALS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED PER NEW CODE	03/13/2024	R.L.



LARGE MISSILE IMPACT RATING			
MAX. OVERALL FRAME SIZE (IN)		DESIGN PRESSURE RATING (PSF)	
		POSITIVE	NEGATIVE
INSWING	74" X 97.875"	+ 45.0	- 45.0
OUTSWING	74" X 96.75"	+ 45.0	- 45.0
QUALIFIED PANELS AND COMPONENTS			
MASONITE FIBERGLASS INSERTGLAZED PANELS-SMC 0.075" SKIN			
REFER TO SHEETS 2, 3 & 4 FOR ALL HARDWARE OPTIONS			
REFER TO SHEET 6 FOR IMPACT GLAZING INSERT OPTIONS			

SIGNED: 04/01/2024

ENDURA PRODUCTS, INC.

8817 WEST MARKET STREET

COLFAX, NC 27235

MASONITE 8' FIBERGLASS DOOR XX

INSWING/OUTSWING IMPACT HVHZ

ELEVATION AND GENERAL NOTES

DRAWN:

DWG NO.

REV

R.M.

NL-0012D

D

SCALE

DATE

SHEET

NTS

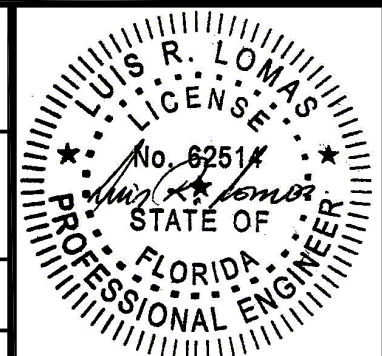
09/05/13

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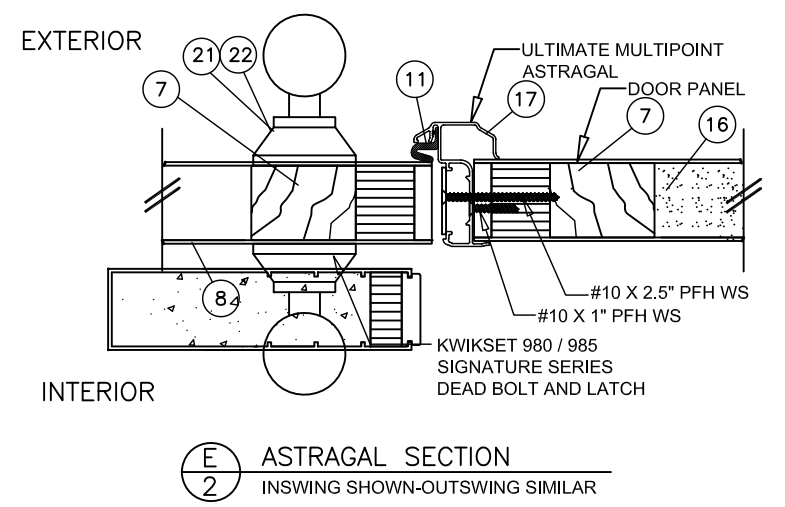
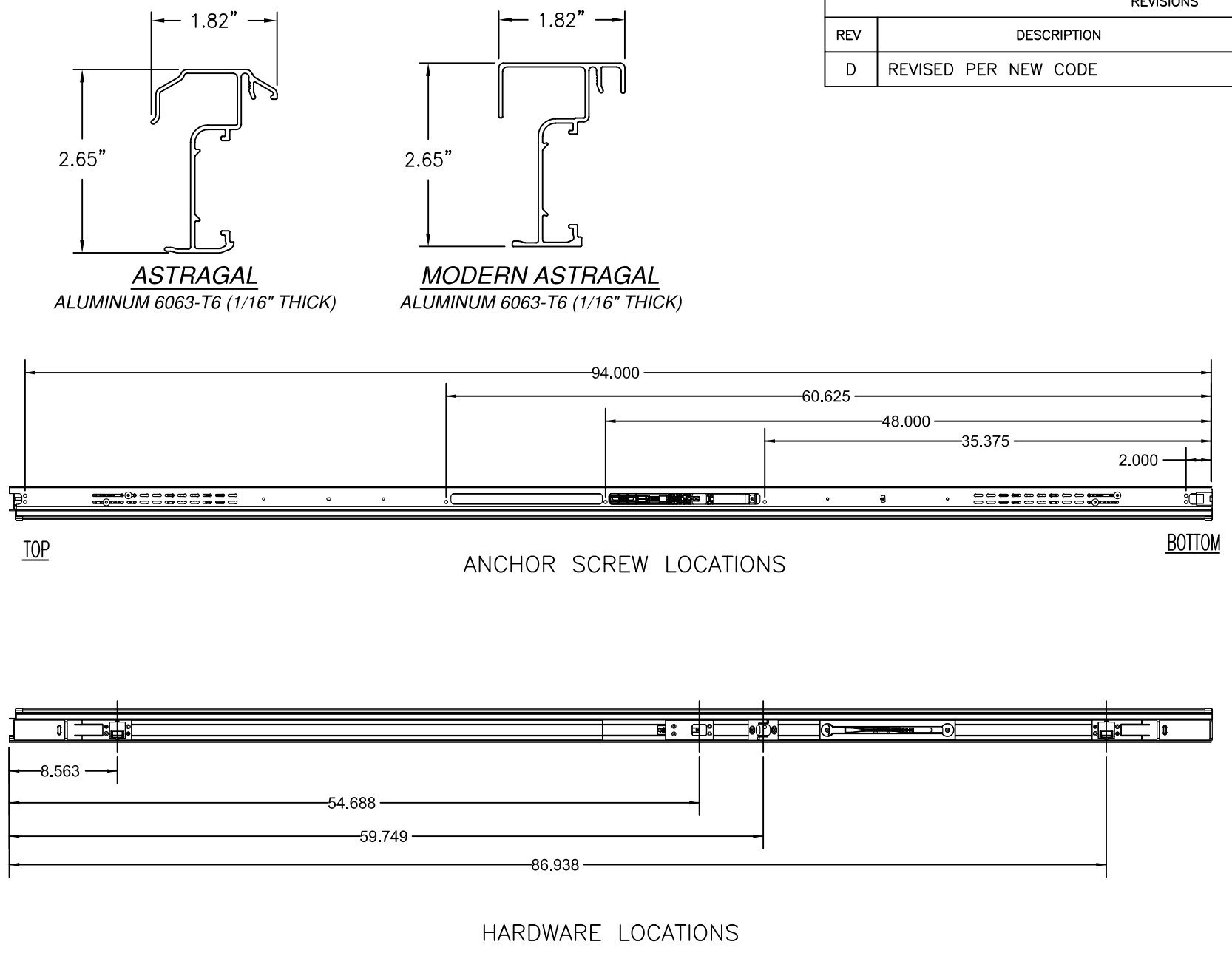
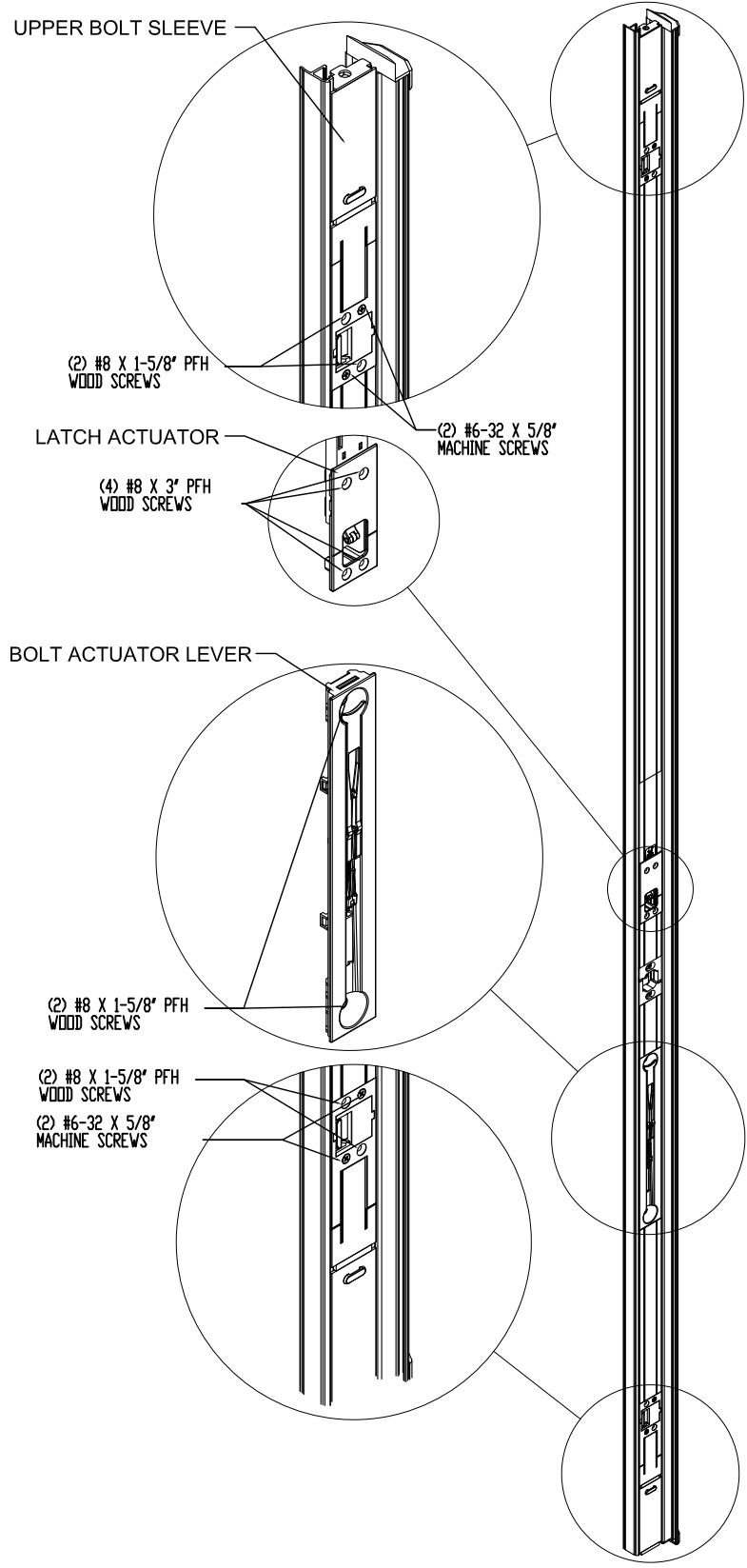
L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com



Luis R. Lomas P.E.
FL No.: 62514



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ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

MASONITE 8' FIBERGLASS DOOR XX
INSWING/OUTSWING IMPACT HVHZ
ASTRAGAL AND LOCK SET DETAILS

DRAWN: R.M.	DWG NO. NL-0012D	REV D
SCALE NTS	DATE 09/05/13	SHEET 2 OF 9

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 04/01/2024

LUIS R. LOMAS
LICENSE
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
FL No.: 62514

UPPER BOLT SLEEVE

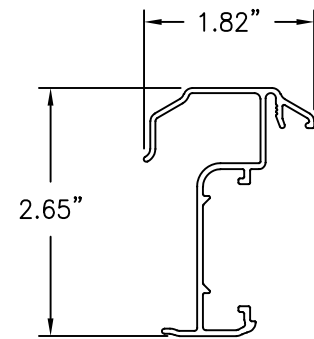
ROLLER STRIKE

BOLT ACUTATOR LEVER

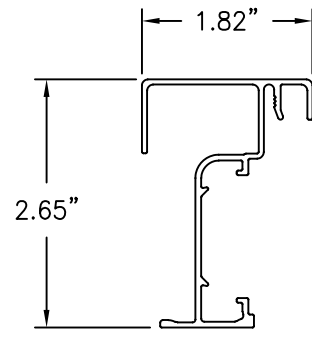
(2) #8 X 1-1/2" PFH
WOOD SCREWS

LOWER BOLT SLEEVE

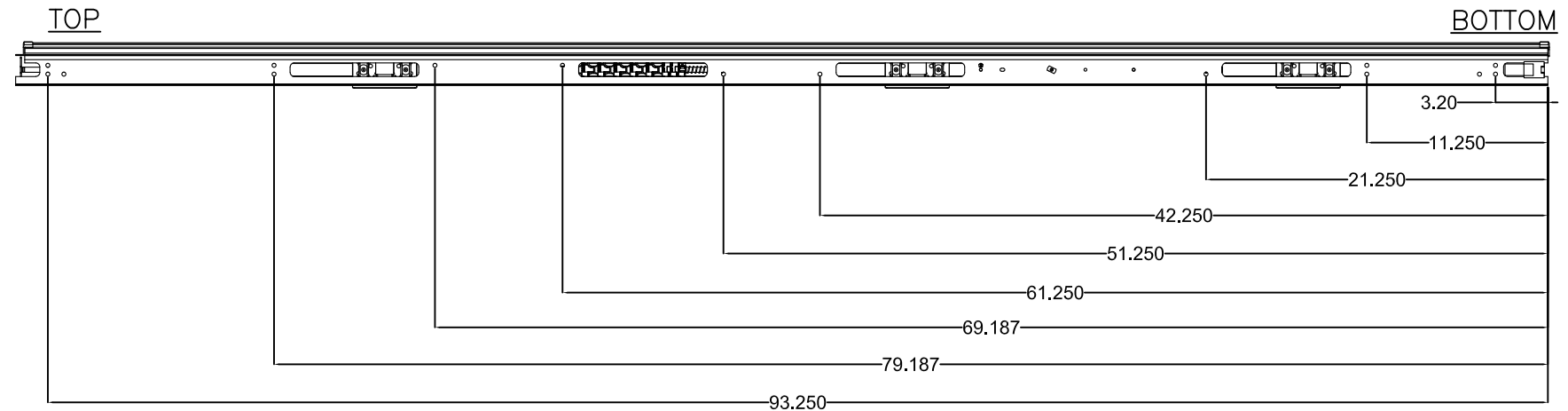
ULTIMATE TRILENNIUM ASTRAGAL



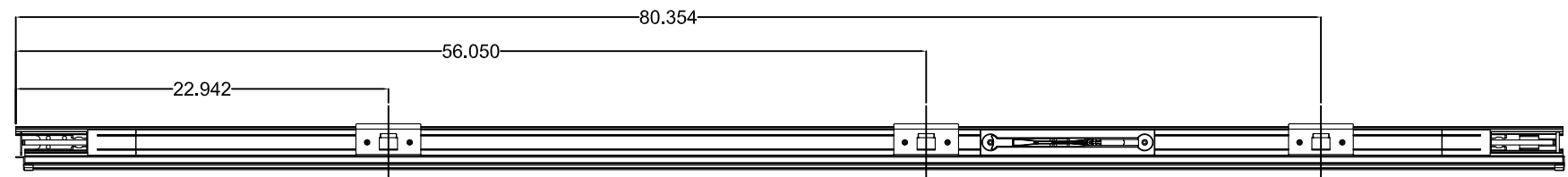
ASTRAGAL
ALUMINUM 6063-T6 (1/16" THICK)



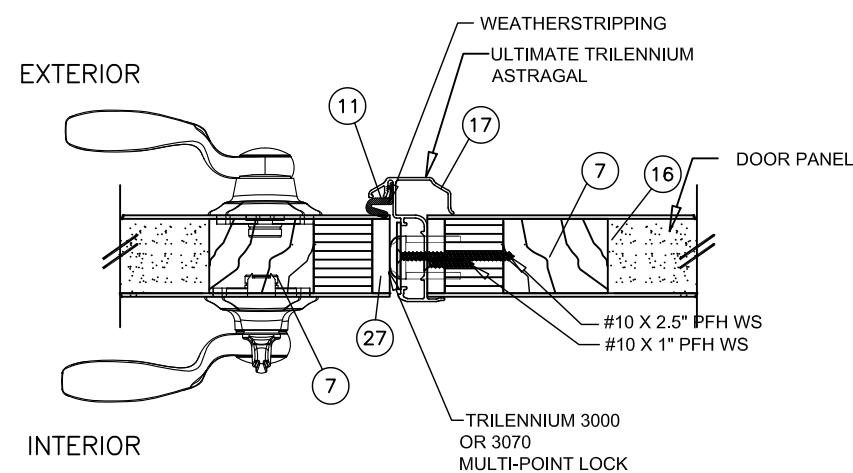
MODERN ASTRAGAL
ALUMINUM 6063-T6 (1/16" THICK)



ANCHOR SCREW LOCATIONS



HARDWARE LOCATIONS



ASTRAGAL SECTION
INSWING SHOWN-OUTSWING SIMILAR

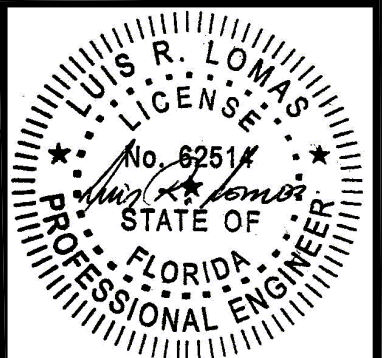
ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

MASONITE 8' FIBERGLASS DOOR XX
INSWING/OUTSWING IMPACT HVHZ
ASTRAGAL AND LOCK SET DETAILS

DRAWN: R.M.	DWG NO. NL-0012D	REV D
SCALE NTS	DATE 09/05/13	SHEET 3 OF 9

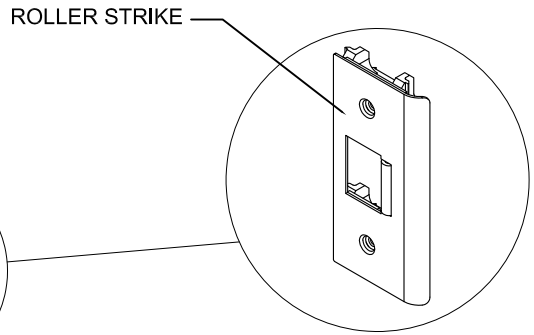
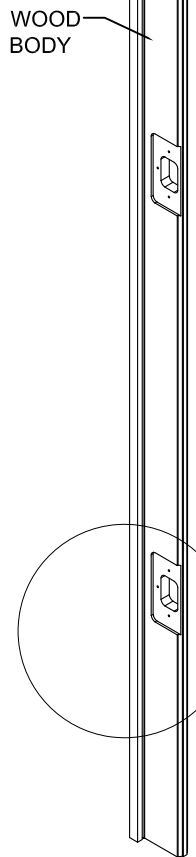
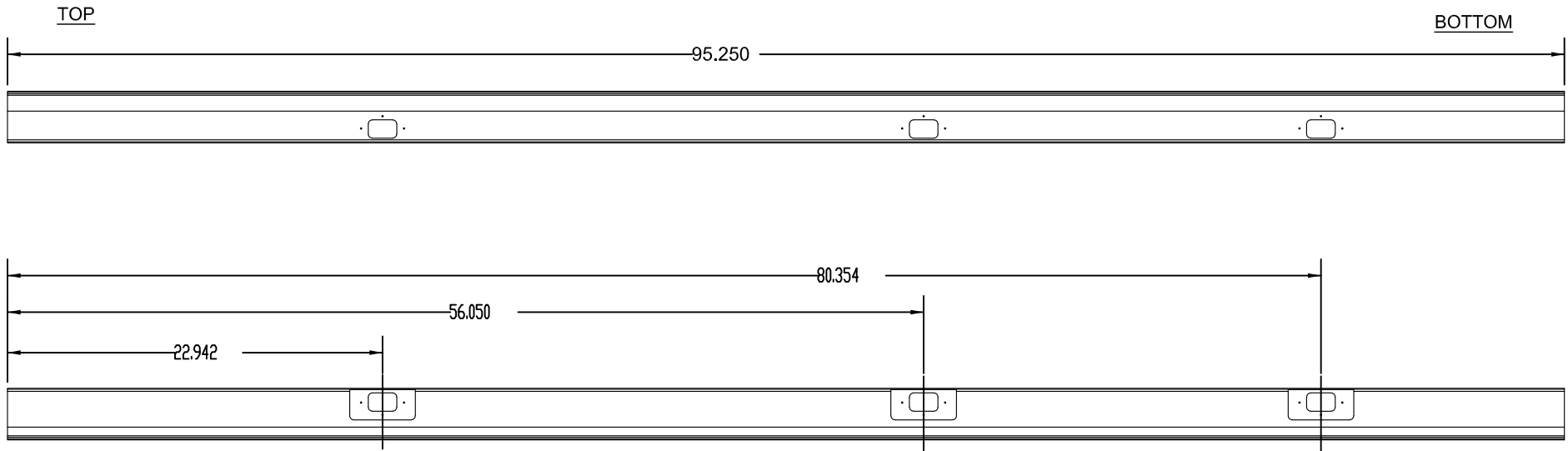
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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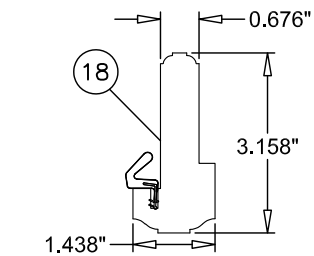
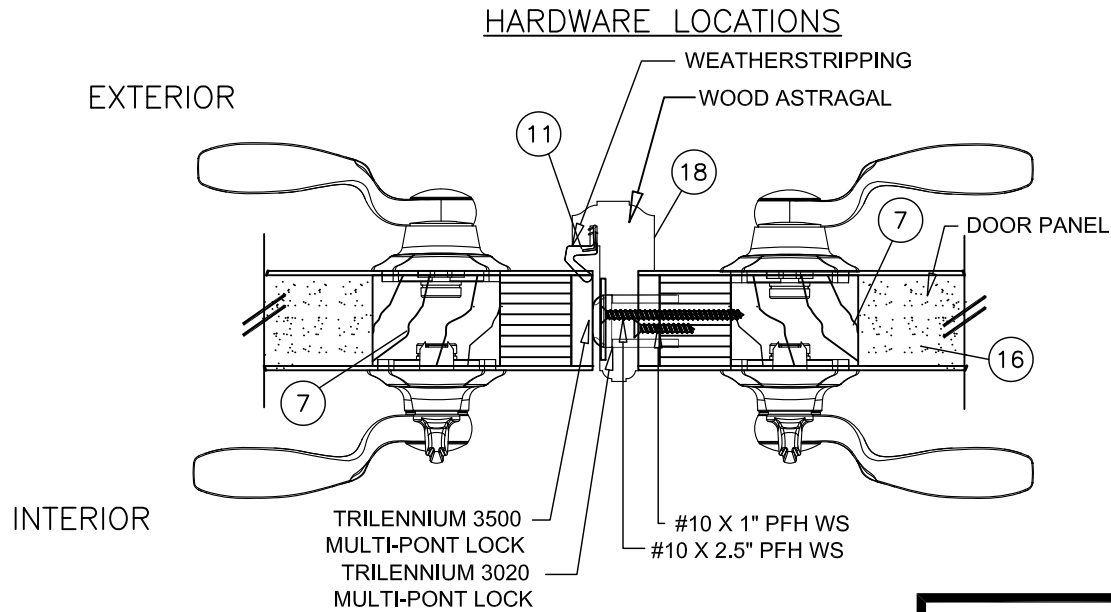


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WOOD ASTRAGAL



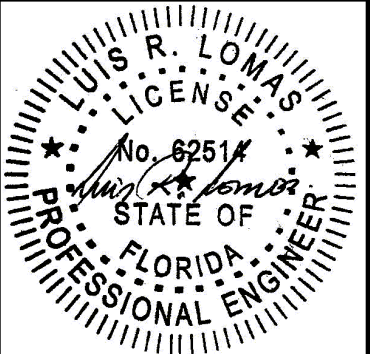
ASTRAGAL SECTION

G
4

ASTRAGAL SECTION
INSWING SHOWN-OUTSWING SIMILAR

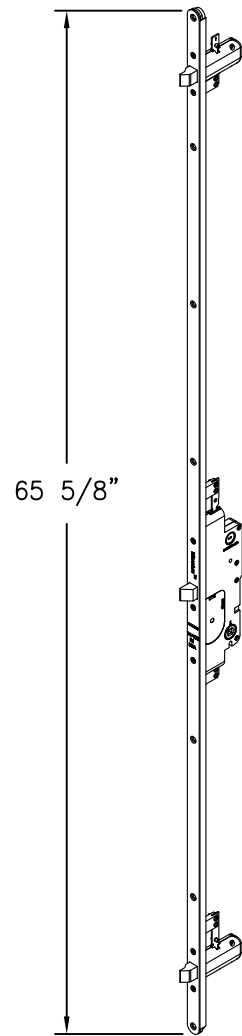
SIGNED: 04/01/2024

ENDURA PRODUCTS, INC. 8817 WEST MARKET STREET COLFAX, NC 27235		
MASONITE 8' FIBERGLASS DOOR XX INSWING/OUTSWING IMPACT HVHZ ASTRAGAL AND LOCK SET DETAILS		
DRAWN: R.M.	DWG NO. NL-0012D	REV D
SCALE NTS	DATE 09/05/13	SHEET 4 OF 9
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

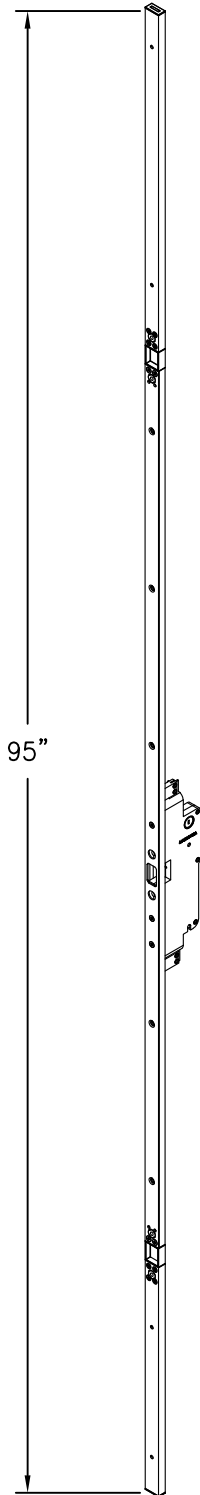


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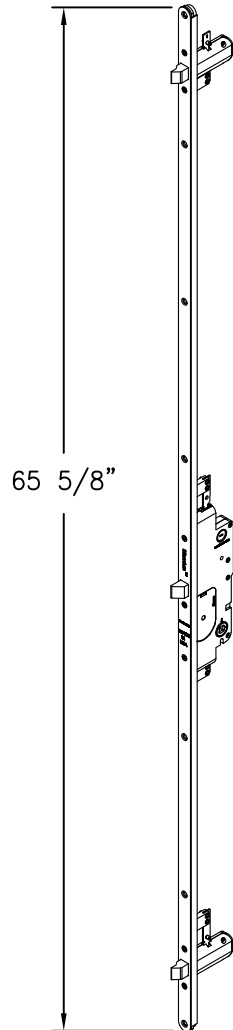
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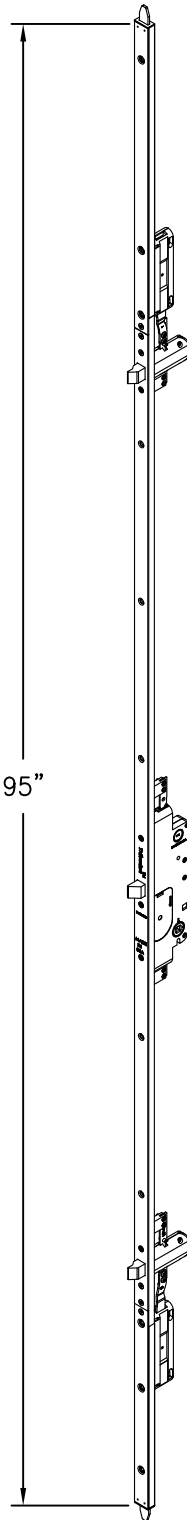
TRILENNIUM
3000 – 8/0



TRILENNIUM
3020 – 8/0



TRILENNIUM
3070 – 8/0



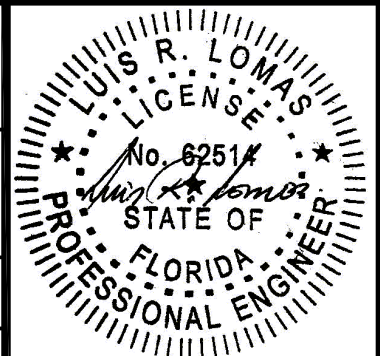
TRILENNIUM
3500 – 8/0

ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

MASONITE 8' FIBERGLASS DOOR XX
INSWING/OUTSWING IMPACT HVHZ
TRILENNIUM LOCKS FOR 8-0 DOORS

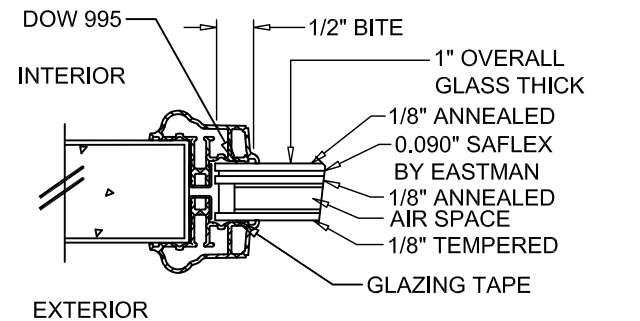
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SCALE NTS	DATE 09/05/13	SHEET5 OF 9	
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com			

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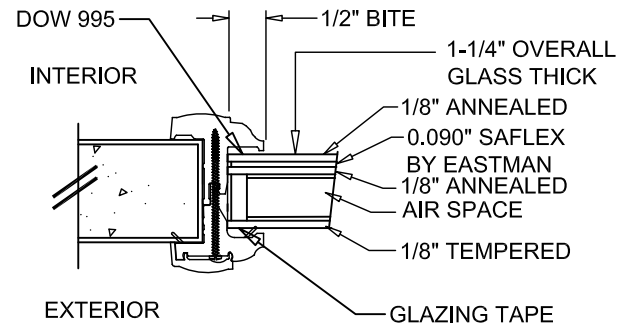


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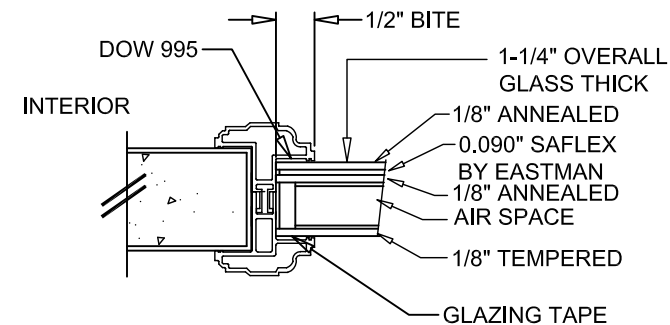
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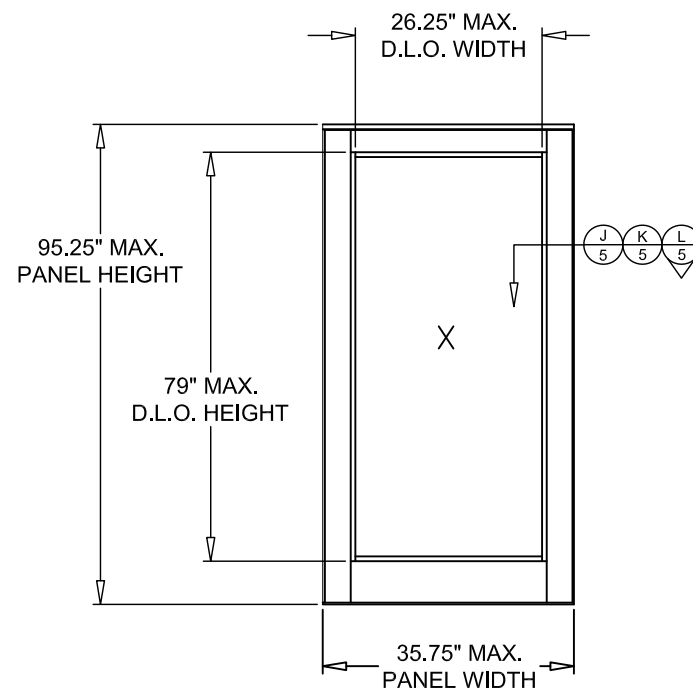
J
5 HORIZONTAL CROSS SECTION
ODL SEVERE WEATHER
GLAZING INSERT OPTION



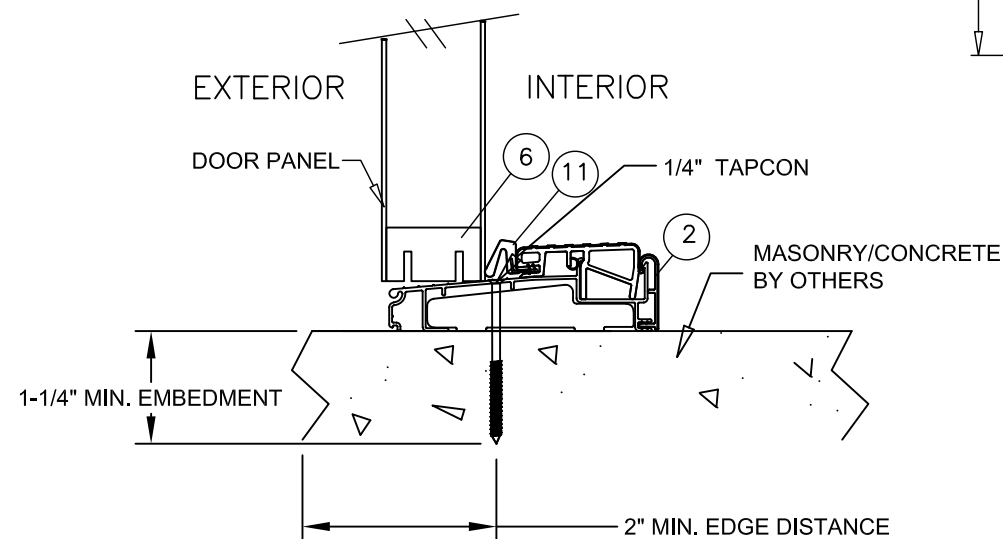
K
5 HORIZONTAL CROSS SECTION
RSL HURRICANE IMPACT
GLAZING INSERT OPTION



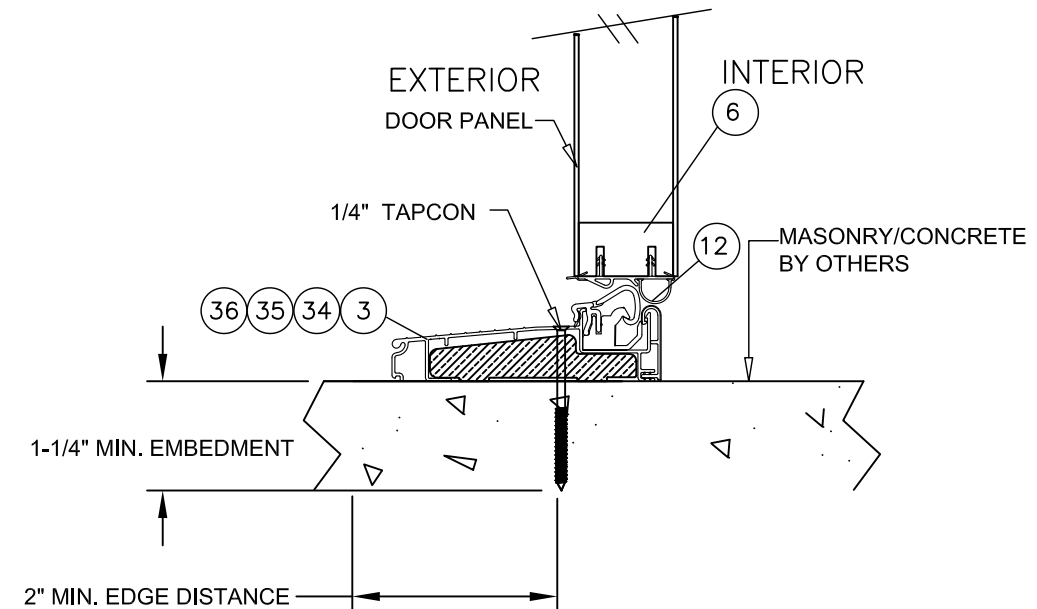
L
5 HORIZONTAL CROSS SECTION
SPECIALTY IMPACT
GLAZING INSERT OPTION



MASONITE
GLAZED INSERT
FIBERGLASS



A
5 VERTICAL CROSS SECTION
OUTSWING MASONRY/CONCRETE INSTALLATION



C
5 VERTICAL CROSS SECTION
IN-SWING MASONRY/CONCRETE INSTALLATION

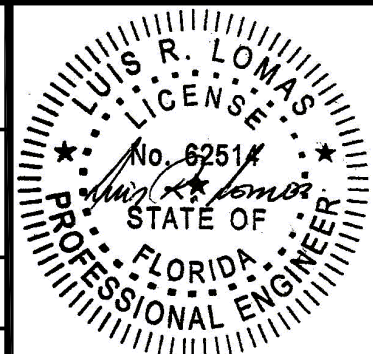
ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

MASONITE 8' FIBERGLASS DOOR XX
INSWING/OUTSWING IMPACT HVHZ
GLAZING INSERT & SILL DETAILS

DRAWN: R.M.	DWG NO. NL-0012D	REV D
SCALE NTS	DATE 09/05/13	SHEET 6 OF 9

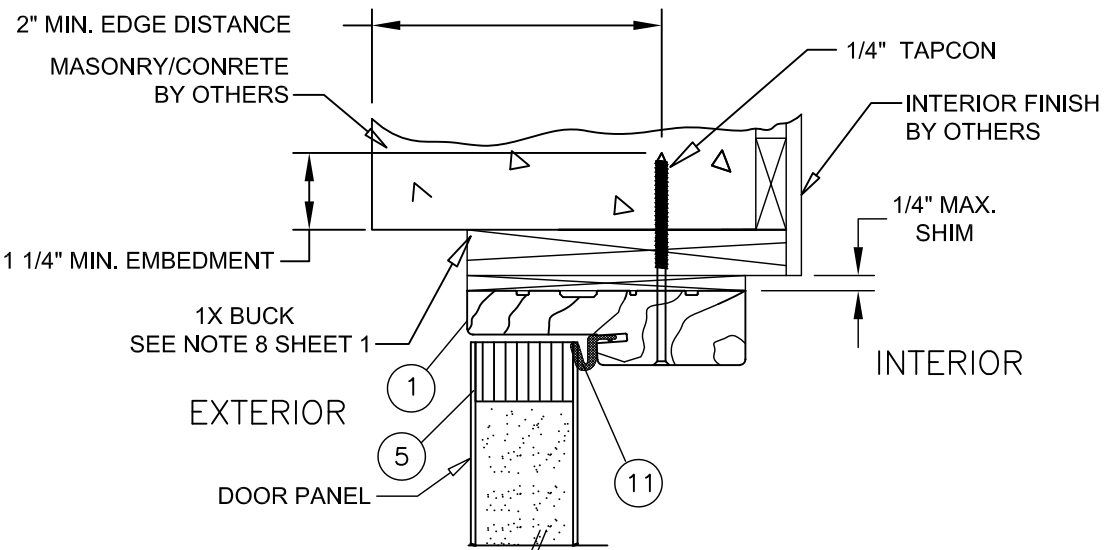
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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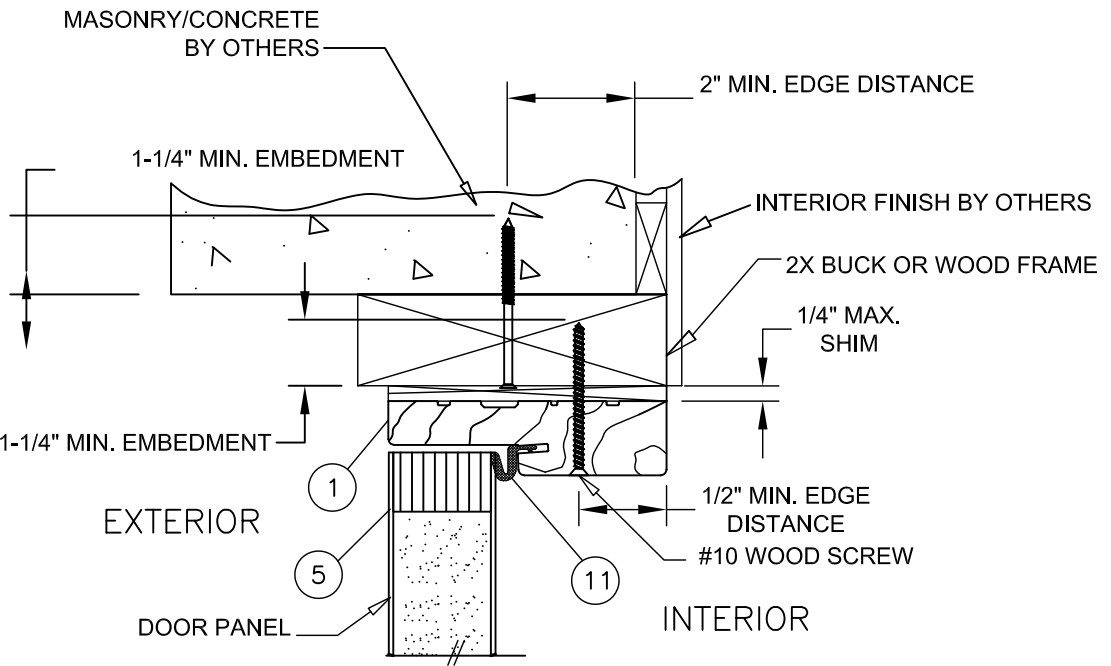


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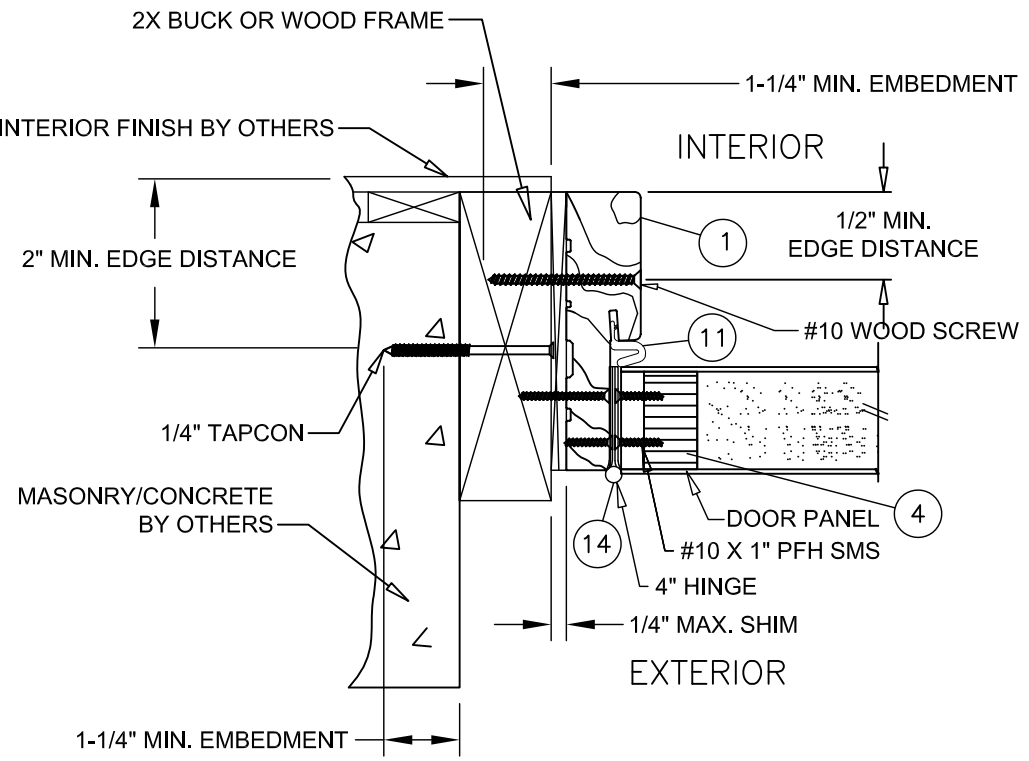
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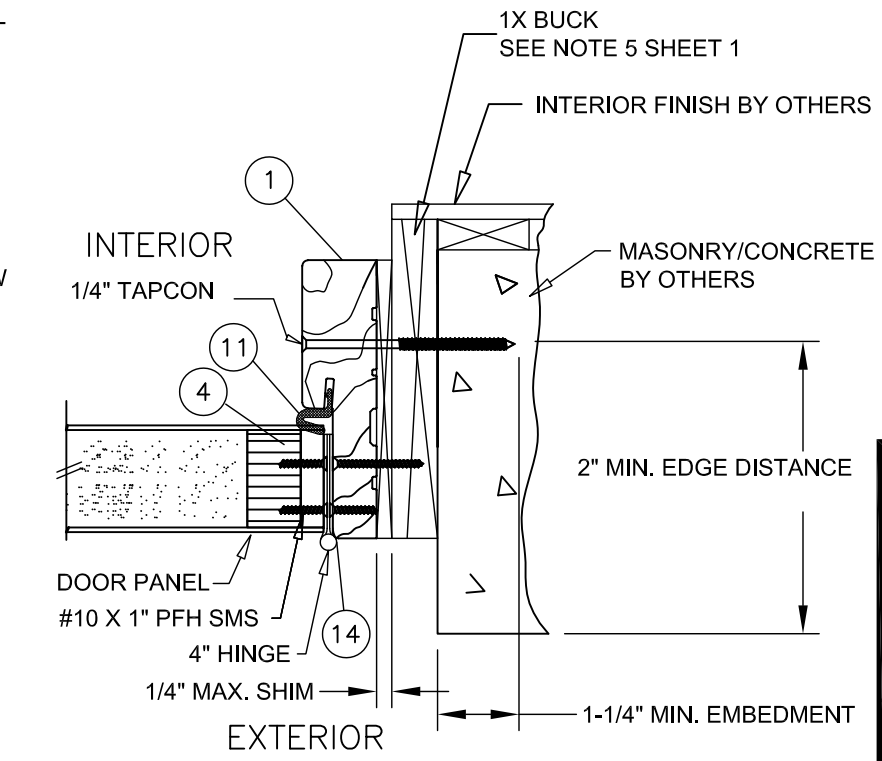
B
6
VERTICAL CROSS SECTION
OUTSWING SHOWN-INSWING SIMILAR
MASONRY/CONCRETE INSTALLATION



D
6
VERTICAL CROSS SECTION
OUTSWING SHOWN-INSWING SIMILAR
2X BUCK OR WOOD FRAME INSTALLATION



H
6
HORIZONTAL CROSS SECTION
OUTSWING SHOWN-INSWING SIMILAR
2X BUCK OR WOOD FRAME OCNSTRUCTION



I
6
HORIZONTAL CROSS SECTION
OUTSWING SHOWN-INSWING SIMILAR
MASONRY/CONCRETE INSTALLATION

SIGNED: 04/01/2024

ENDURA PRODUCTS, INC.
8817 WEST MARKET STREET
COLFAX, NC 27235

MASONITE 8' FIBERGLASS DOOR XX
INSWING/OUTSWING IMPACT HVHZ
INSTALLATION DETAILS

DRAWN:
R.M.

DWG NO.
NL-0012D

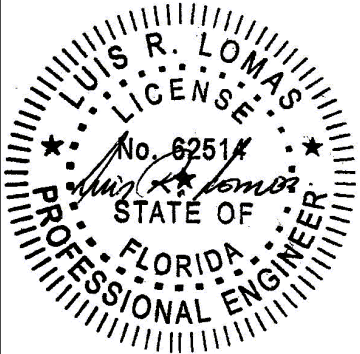
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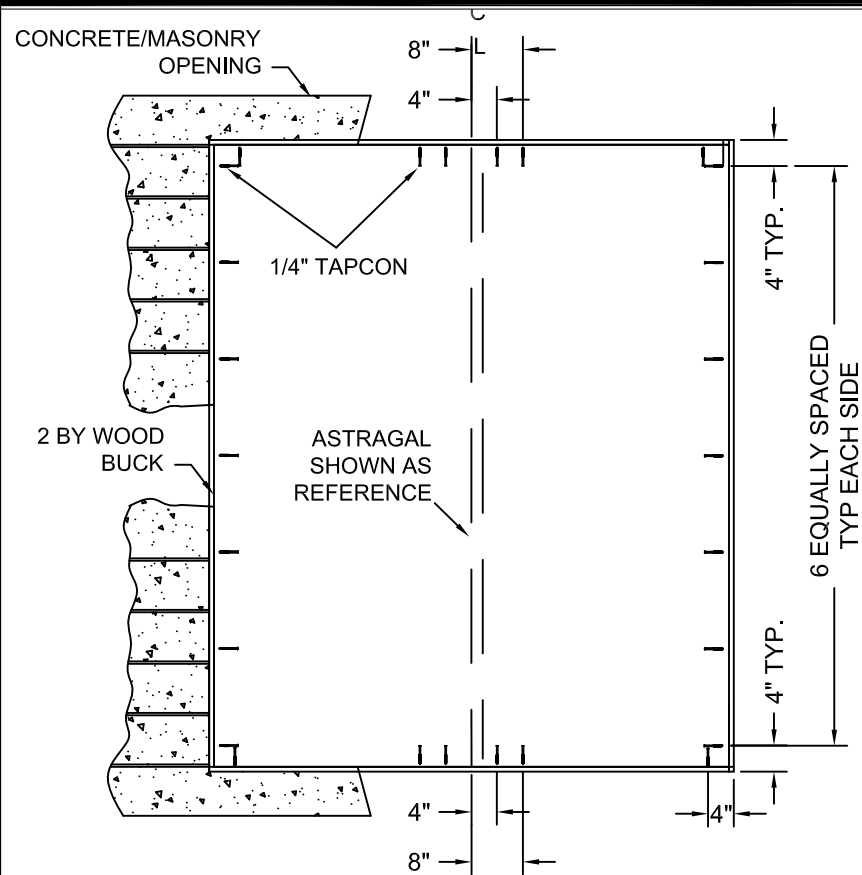
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09/05/13

SHEET
7 OF 9

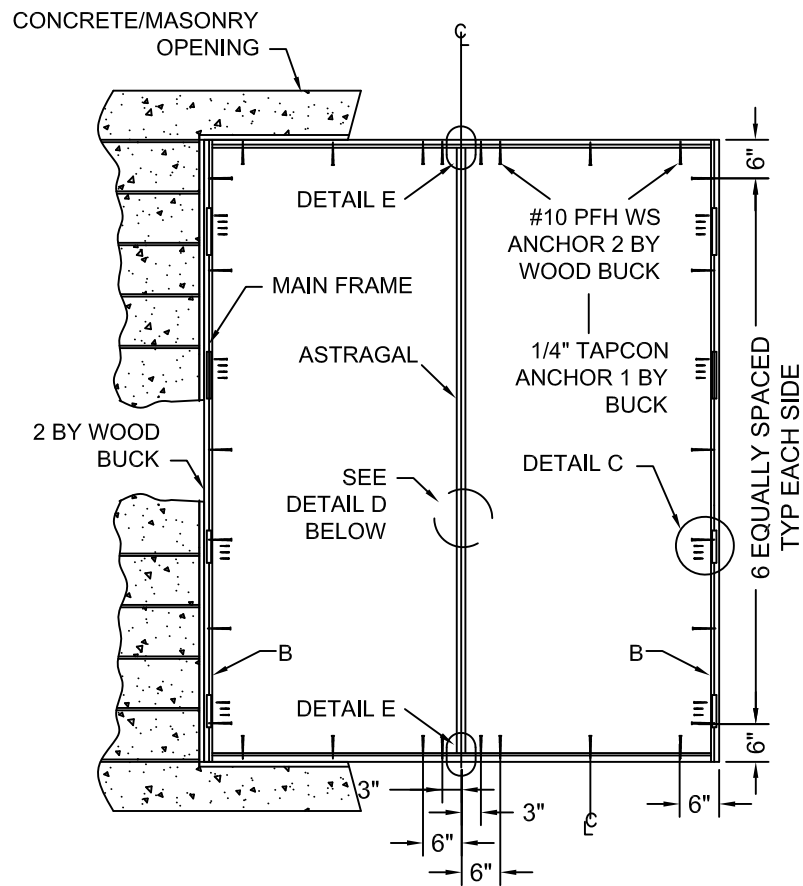
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208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



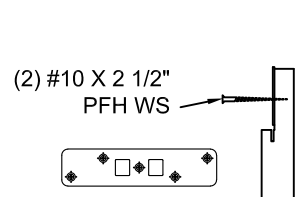
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WOOD BUCK TO
SUBSTRATE ANCHORING
XX

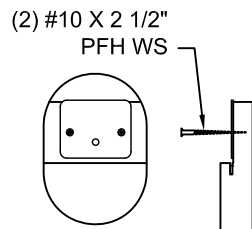


MAIN FRAME TO
BUCK ANCHORING
XX



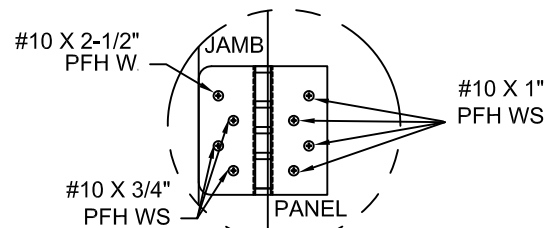
HEAD/SILL STRIKE PLATE DETAIL

3500 / 3020 TRILENIUM
ATTACH LOCK THROW BOLT
STRIKE PLATE TO FRAME
AS SHOWN.

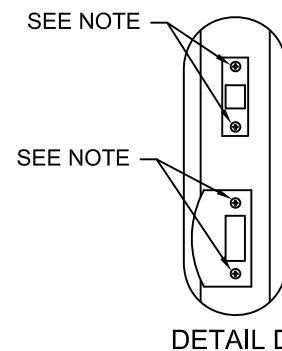


HEAD STRIKE PLATE DETAIL

ULTIMATE MPA ASTRAGAL
ATTACH ASTRAGAL THROW BOLT
STRIKE PLATE TO FRAME
AS SHOWN.



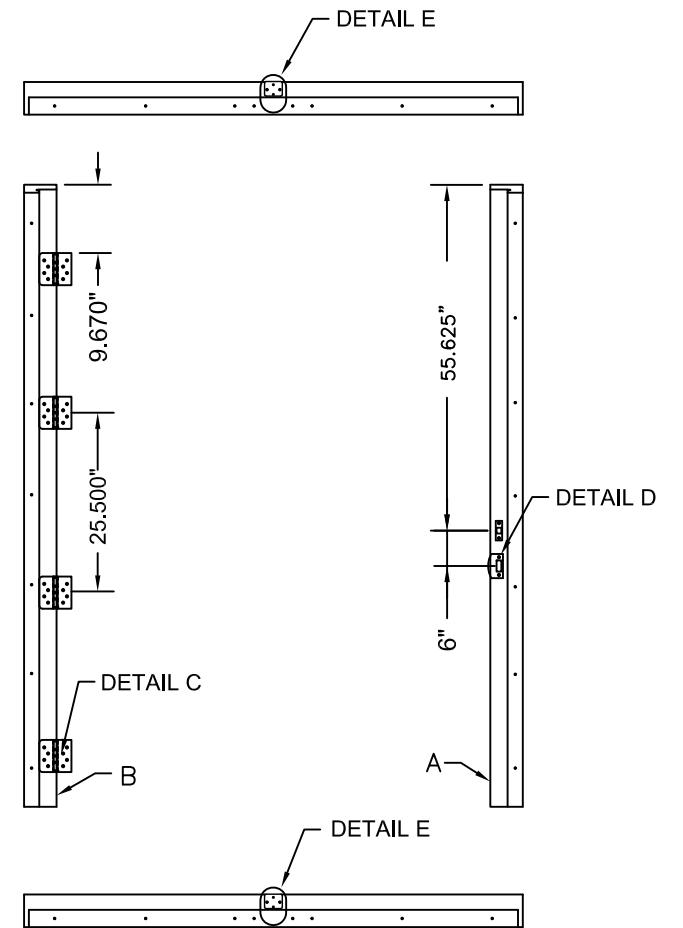
HINGE DETAIL



DETAIL D

NOTE:
ATTACH STRIKE & DEADBOLT
PLATES TO STRIKE & BUCK
WITH #10 X 2" FH WOOD SCREW
ATTACH STRIKE & DEAD BOLT
PLATES TO ASTRAGAL WITH
#8 X 2 1/2" FH WOOD SCREWS
ATTACH STRIKE TO JAMB &
SIDELITE JAMB WITH #10 X 1 3/4"
FH WOOD SCREW.

REVISIONS			
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INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION. ANCHORS MUST MATCH TYPE, SIZE, AND EMBEDMENT OF THOSE SHOWN HEREIN FOR RESPECTIVE SUBSTRATE.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM SIZE IS 1/4 INCH. SHIM WHERE SPACE OF 1/8 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- FOR INSTALLATION INTO WOOD FRAMING, USE #10 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1-1/4" MINIMUM EMBEDMENT.
- FOR INSTALLATION THROUGH 1X BUCK TO CONCRETE / MASONRY, OR DIRECTLY INTO CONCRETE / MASONRY, USE 1/4" TAPCON OF SUFFICIENT LENGTH TO ACHIEVE 1-1/4" MINIMUM EMBEDMENT WITH A 2" MINIMUM EDGE DISTANCE.
- ALTERNATE CONCRETE / MASONRY INSTALLATION ANCHORS OF EQUIVALENT PERFORMANCE CHARACTERISTICS CAN BE USED UPON APPROVAL OF ARCHITECT OR ENGINEER OF RECORD.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING).
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.42.
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3192 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).

ENDURA PRODUCTS, INC.

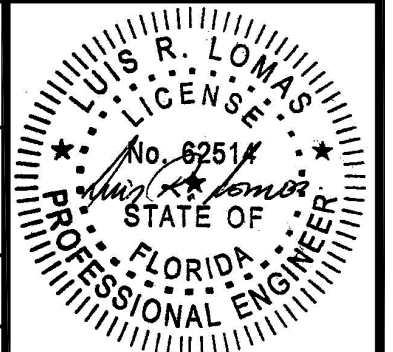
8817 WEST MARKET STREET
COLFAX, NC 27235

MASONITE 8' FIBERGLASS DOOR XX
INSWING/OUTSWING IMPACT HVHZ
ELEVATION & ANCHOR LAYOUT

DRAWN: R.M.	DWG NO. NL-0012D	REV D
SCALE NTS	DATE 09/05/13	SHEET 8 OF 9

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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