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INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. 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.
4. FOR INSTALLATION INTO 2X WOOD BUCK, USE #14 WOOD SCREW THROUGH THRESHOLD OF SUFFICIENT LENGTH TO ACHIEVE 1-1/2 INCH MINIMUM EMBEDMENT AND 3/8" LAG BOLTS THROUGH JAMB PIPE & STRAP REINFORCEMENT OF SUFFICIENT LENGTH TO ACHIEVE 3" MINIMUM EMBEDMENT.
5. FOR INSTALLATION THROUGH 1X BUCK OR DIRECTLY INTO CONCRETE/MASONRY, USE 1/4 INCH ITW TAPCON ANCHORS THROUGH THE THRESHOLD OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF 1-1/4 INCH AND 3/8 INCH DYNABOLT SLEEVE ANCHORS THROUGH JAMB PIPE & STRAP REINFORCEMENT OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF 1-1/2 INCH.
6. FOR INSTALLATION DIRECTLY INTO CONCRETE/MASONRY, USE 1/4 INCH ITW TAPCON ANCHORS THROUGH THE THRESHOLD OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF 1-1/4 INCH. USE 3/16 INCH WIRE GALVANIZED ANCHORS OR T-STRAP TYPE MASONRY ANCHORS AT JAMBS AS SPECIFIED IN THE DETAILS OF THIS INSTALLATION DOCUMENT.
7. 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.
8. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
9. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- 10.FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL EXPANSION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 11.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.
- 12.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 2000 PSI.

C. GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.

D. HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.

STEEL DOOR CONSTRUCTION:

THE OVERALL PANEL THICKNESS IS 1 3/4 INCH THICK. THE DOOR PANEL HINGE AND LOCK CHANNELS ARE ARE CONSTRUCTED FROM 18 GAUGE (0.048") COLD-ROLLED STEEL. THE DOOR TOP AND BOTTOM END CHANNELS ARE 1.67" X 0.62" AND ARE CONSTRUCTED FROM 16 GAUGE COLD-ROLLED STEEL. THE DOOR SKINS / FACE SHEETS ARE CONSTRUCTED OF **18 GAUGE** (0.048") COLD-ROLLED STEEL AND ATTACHED TO THE END, HINGE AND LOCK CHANNELS. THE DOOR CORE IS CONSTRUCTED OF MIN. 1 LB DENSITY POLYSTYRENE AND ATTACHED TO THE FACES WITH GLUE. THE DOOR HINGE REINFORCEMENTS ARE 1.25" X 8.75" AND ARE CONSTRUCTED FROM 7 GA (0.177") COLD-ROLLED STEEL. THE DOOR LOCK REINFORCEMENTS ARE CONSTRUCTED FROM 16 GAUGE (0.053") MIN. COLD-ROLLED STEEL.THE DOOR INACTIVE LEAF Z-ASTRAGAL IS IS CONSTRUCTED FROM 14 GAUGE (0.067") COLD-ROLLED STEEL.THE DOOR INTERIOR MULLION BY VON DUPRIN IS .842" X 1.792". THE DOOR FLUSH BOLTS ARE BY IVES BOLTS LOCATED AT THE TOP AND BOTTOM MEETING EDGE CORNER OF ACTIVE AND INACTIVE PANEL LOCKSTILE. 99 OR XP99 EXIT DEVICE AND TWO-POINT SURFACE VERTICAL ROD EXIT DEVICE SYSTEMS BY VON DUPRIN. ND SERIES CYLINDRICAL LOCK AND 600 SERIES DEADLOCK ARE BY SCHLAGE.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ, AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:

• TAS 201-94

• TAS 202-94

• TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD 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 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.
4. 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.
5. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. DOOR FRAME MATERIAL: 16 GA. STEEL
DOOR PANEL MATERIAL: 18 GA. STEEL
7. GLASS MEETS THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS. SEE SHEET 6 FOR GLAZING DETAILS.

FRAME CONSTRUCTION:

THE DOOR FRAMES ARE CONSTRUCTED FROM 16 GAUGE (0.053") COLD-ROLLED STEEL. THE CORNERS ARE WELDED AND MITERED OR BUTT ENDED ATTACHED. THE DOOR FRAME SECTIONS ARE T-SHAPED. THE DOOR FRAME HINGES ARE 4.5" X 4.5" X 0.134" OR 5" X 5" X 0.146" OR 0.190" BY IVES STANDARD WEIGHT HINGES. THE DOOR FRAME HINGE REINFORCEMENTS ARE 1.25" X 8.75" AND ARE CONSTRUCTED FROM 7 GA (0.177") COLD-ROLLED STEEL.

PIONEER INDUSTRIES

SERIES PIOCANE GLAZED STEEL DOOR

(HVHZ)(IMPACT)

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6	CORNER CONSTRUCTION & GLAZING DETAIL
7	MASONRY ANCHORS
8	BILL OF MATERIALS
9	COMPONENTS

DESIGN PRESSURE RATING		
DESIGN PRESSURE - ALL SIZES		MISSILE IMPACT RATING
+50.0 / -50.0 PSF	W/ WATER INFILTRATION	SMALL AND LARGE MISSILE IMPACT RATED



111 KERO ROAD
CARLSTADT, NJ 07072

PH: 201-933-1900 FX: 201-933-9580

TITLE: SERIES PIOCANE
GLAZED STEEL DOOR
(HVHZ)(IMPACT)

GENERAL & INSTALLATION NOTES

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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WEB: www.buildingdrops.com

REMARKS	BY	DATE
5TH EDITION FBC REVISIONS	LS	8/07/15
2020 FBC UPDATE	NUS	10/28/20

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Digitally signed by Hermes F Norero
Reason: I am approving this document
Date: 2020.12.07 06:11:34 -05'00'

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL14446

DATE: **12.14.10**

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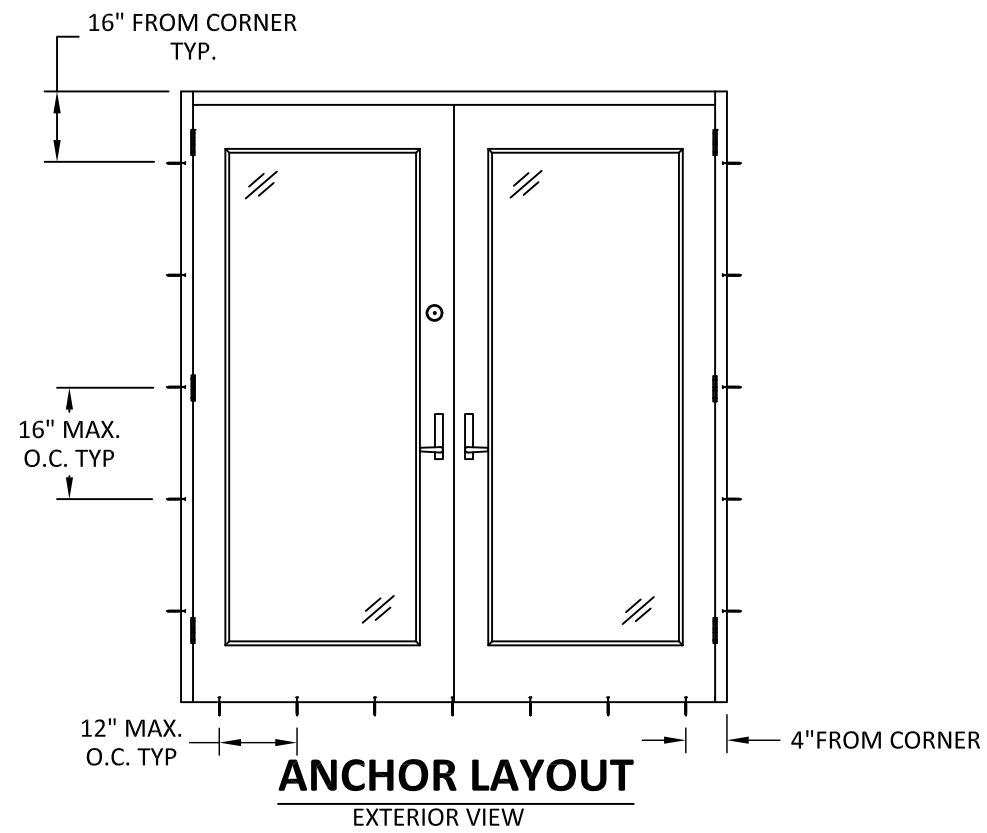
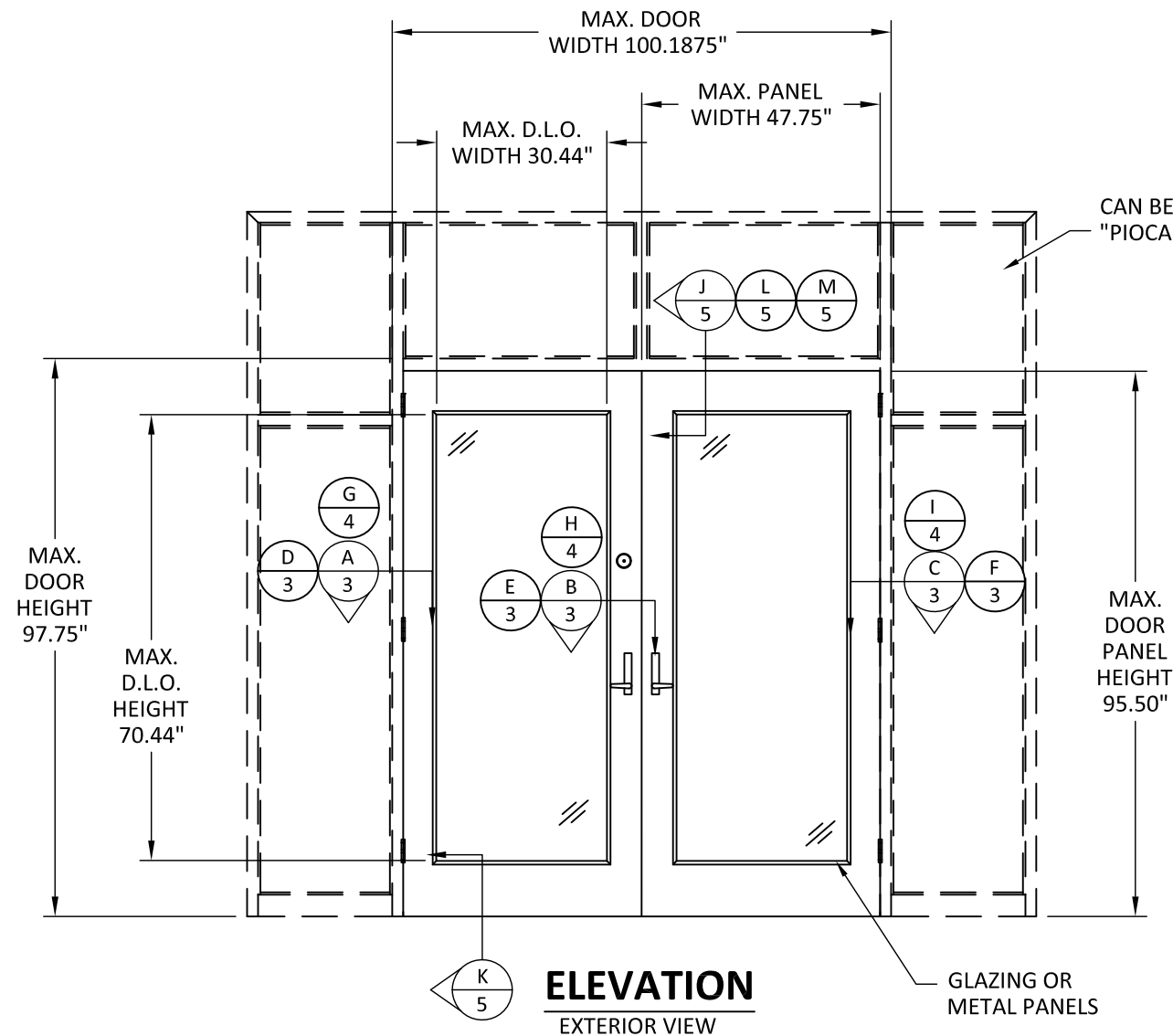
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SHEET

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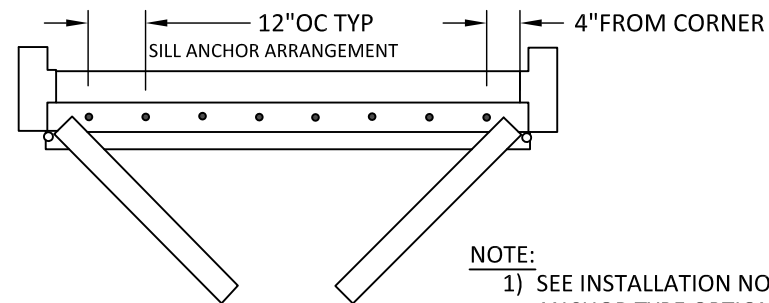
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ANCHOR SCHEDULE					
SUBSTRATE	ANCHOR	MIN. EMBEDMENT (IN.)	MIN. EDGE DISTANCE (IN.)	MAXIMUM O.C. SPACING (IN.)	
				JAMBS	SILL
CONCRETE/CMU	3/16" WIRE ANCHOR	6.5	1.625	EVERY 2 COURSES OF CMU*	N/A
	T-STRAP ANCHOR	6	2.5	EVERY 2 COURSES OF CMU*	N/A
	3/8" RED HEAD DYNABOLT SLEEVE ANCHOR	1.50	2.25	SEE LAYOUT	N/A
	1/4" ITW TAPCON ANCHOR	1.25	2.50	N/A	SEE LAYOUT
WOOD	3/8" LAG SCREW	3.00	1.50	SEE LAYOUT	N/A
	#14 WOOD SCREW	1.50	0.75	N/A	SEE LAYOUT

* A MINIMUM OF FIVE (5) ANCHORS IS REQUIRED ON EACH JAMB
NOTE:NO ANCHORS ARE USED THROUGH THE FRAME HEAD.



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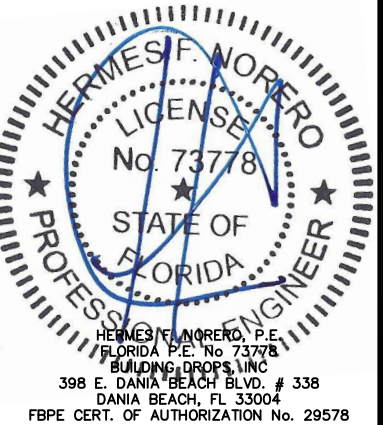
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ELEVATIONS & ANCHOR LAYOUT

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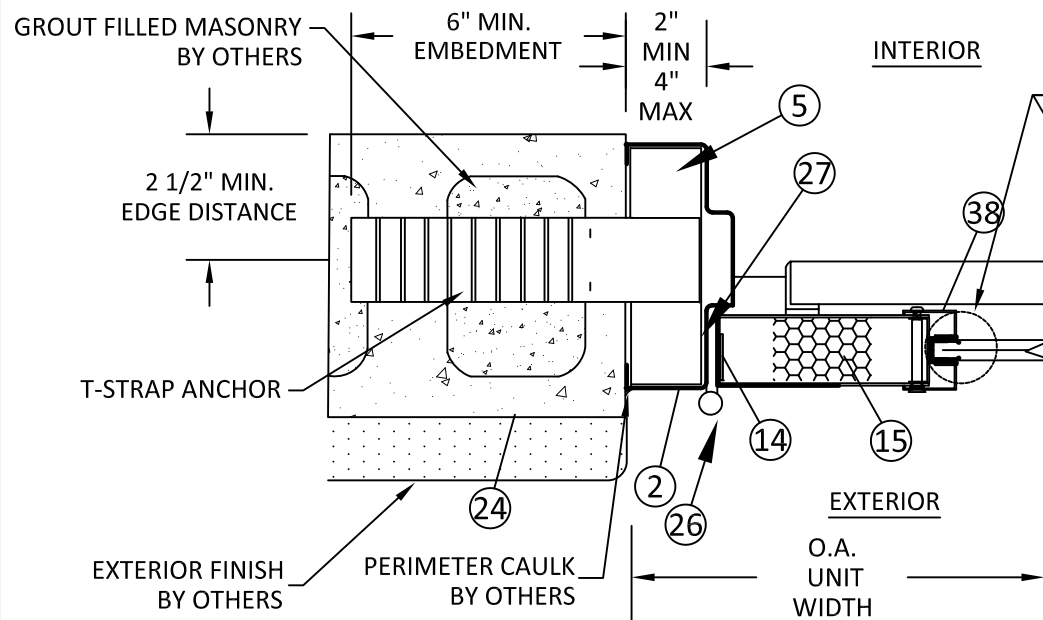
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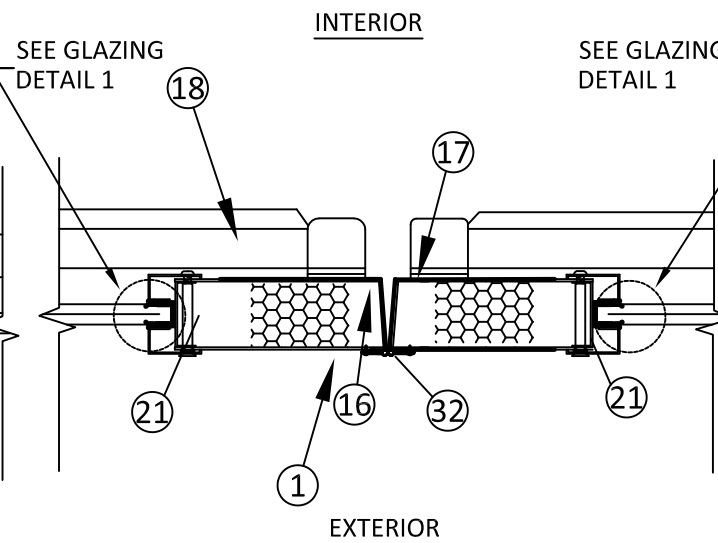
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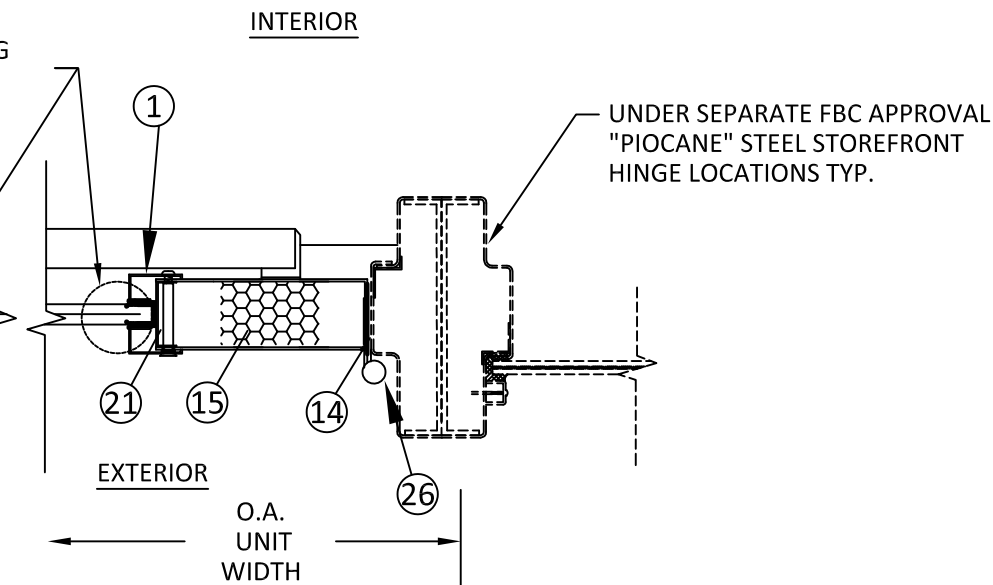
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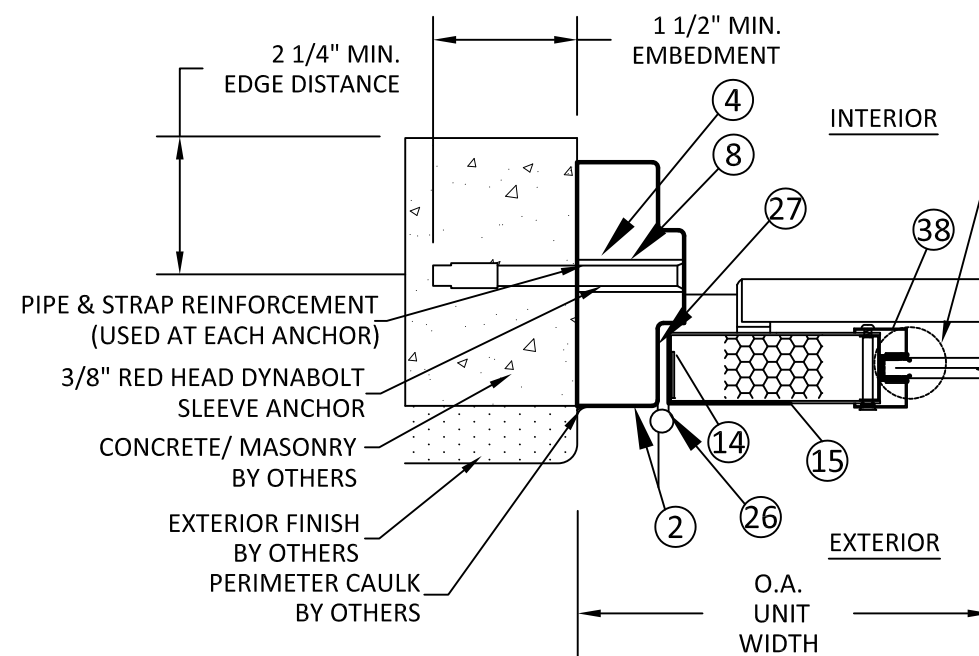
A **HORIZONTAL SECTION**
3 JAMB - GROUT FILLED CMU
T-STRAP ANCHOR



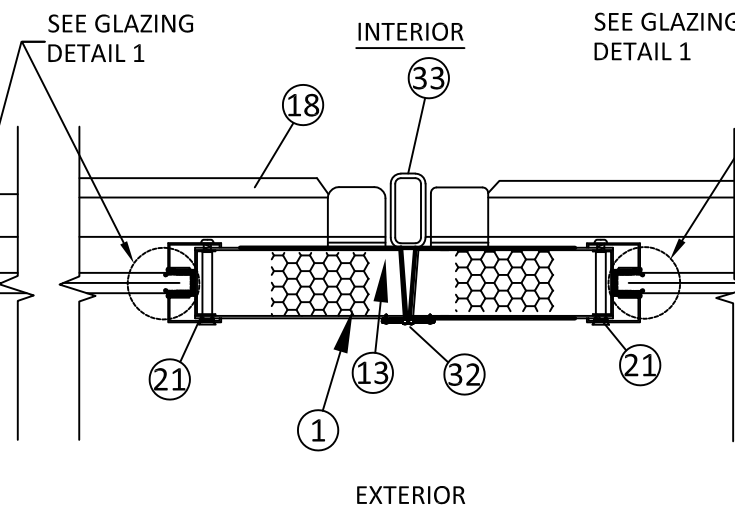
B **HORIZONTAL SECTION**
3 SURFACE VERTICAL ROD



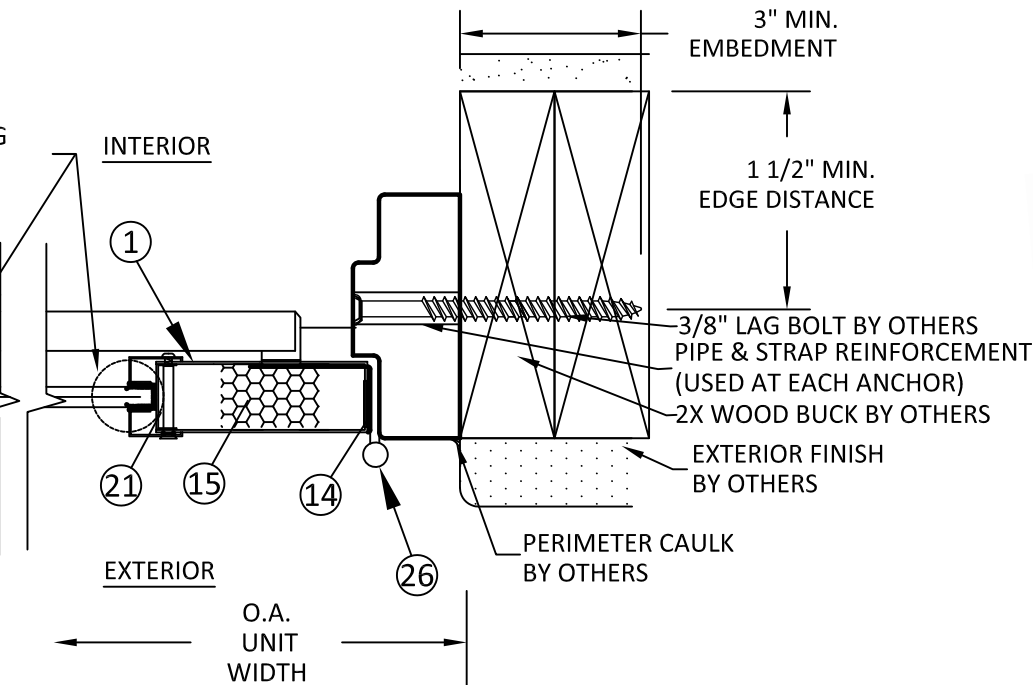
C **HORIZONTAL SECTION**
3 JAMB - GROUT FILLED CMU
T-STRAP ANCHOR



D **HORIZONTAL SECTION**
3 JAMB - CONCRETE
SLEEVE ANCHOR



E **HORIZONTAL SECTION**
3 RIM EXIT WITH MULLION



F **HORIZONTAL SECTION**
3 JAMB - 2X WOOD BUCK
LAG BOLT ANCHOR

PIONEER
ASSA ABLOY

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TITLE: SERIES PIOCANE
GLAZED STEEL DOOR
(HVHZ)(IMPACT)

HORIZONTAL SECTIONS

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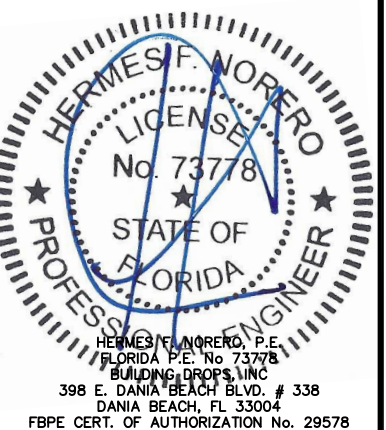
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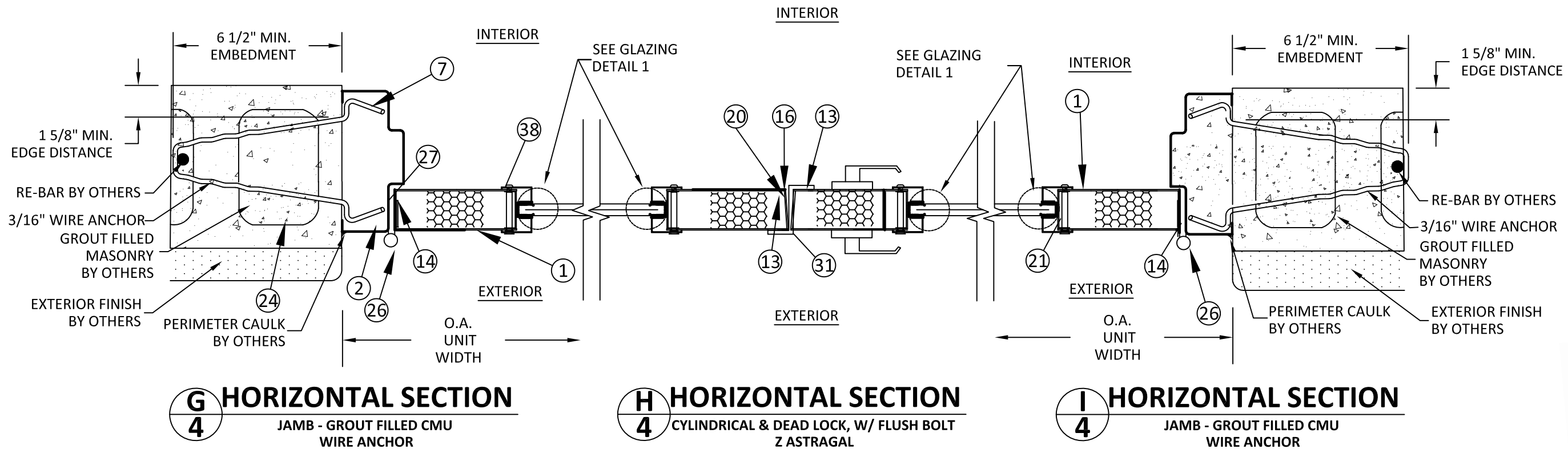
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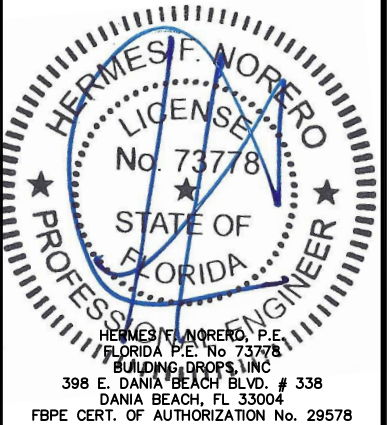
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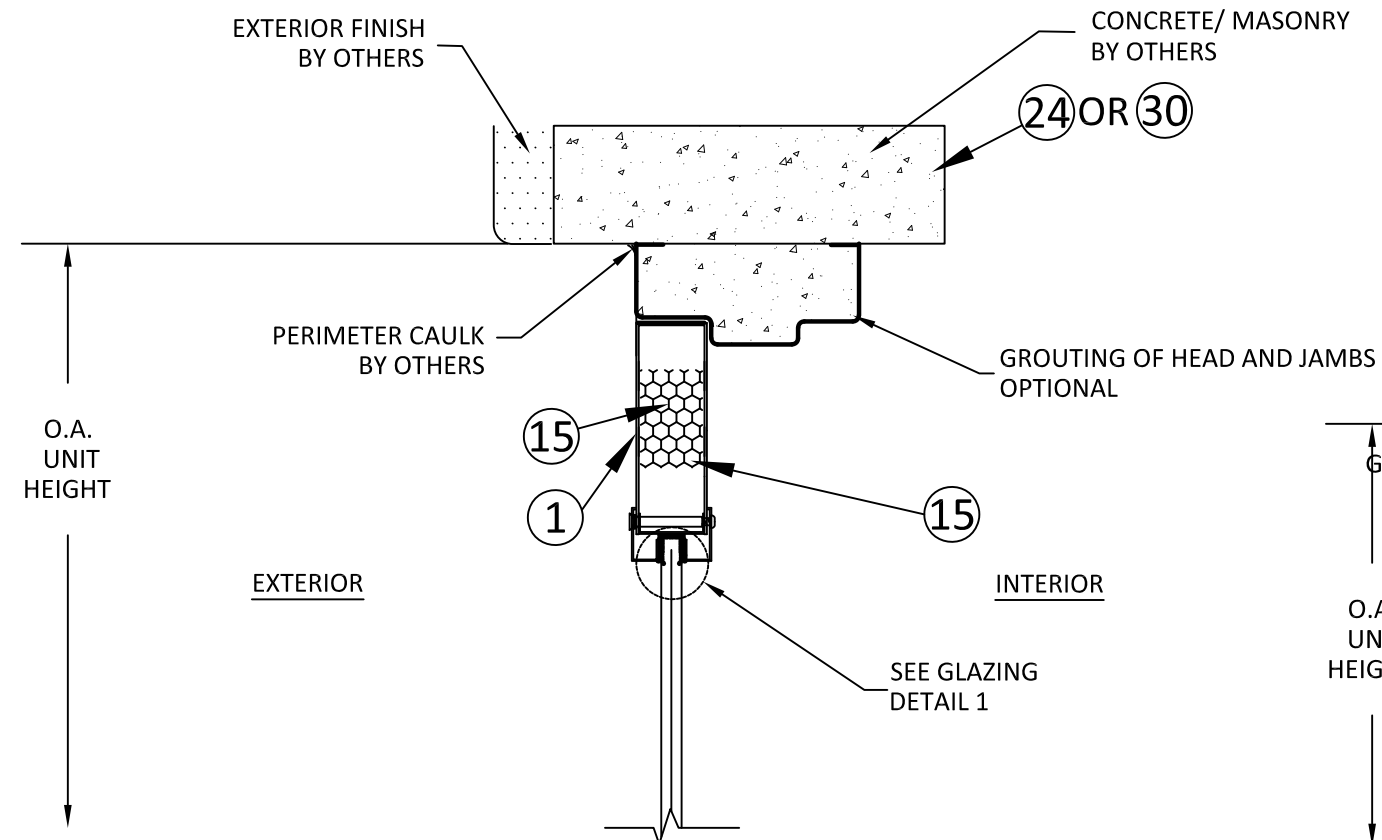
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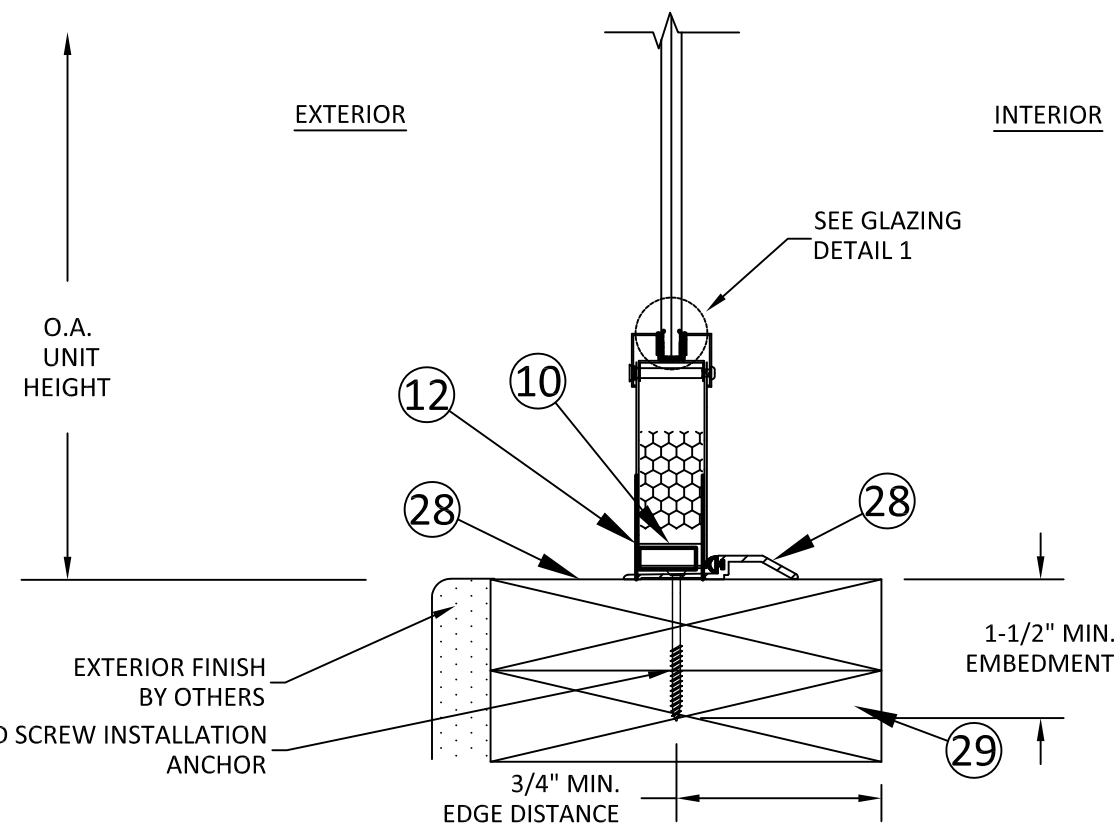
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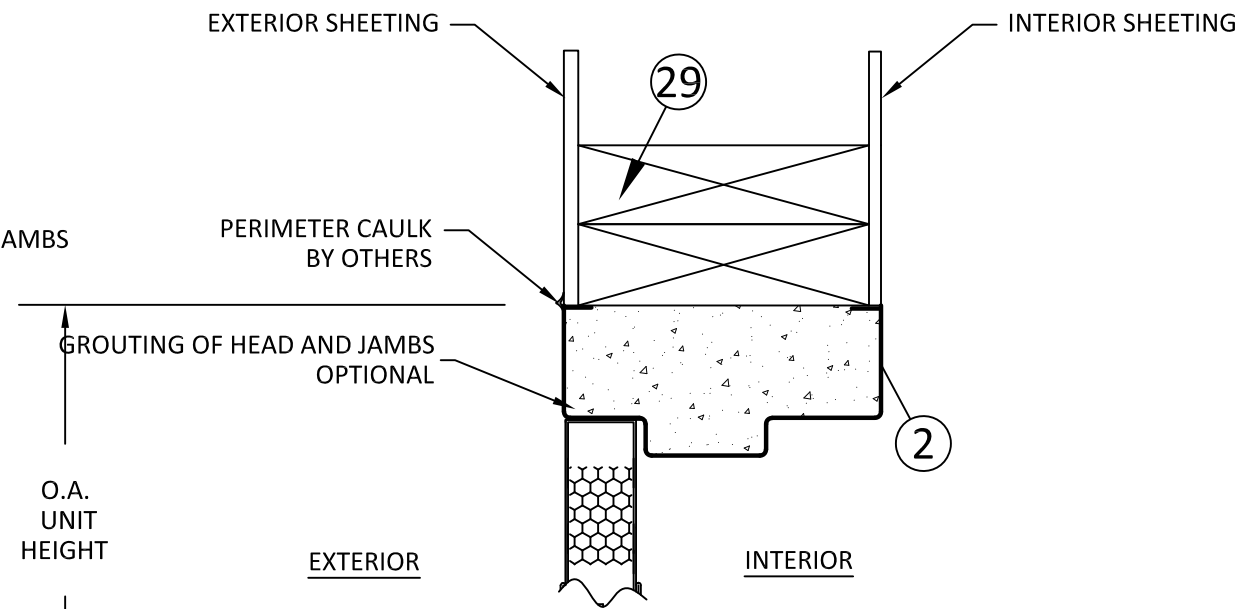
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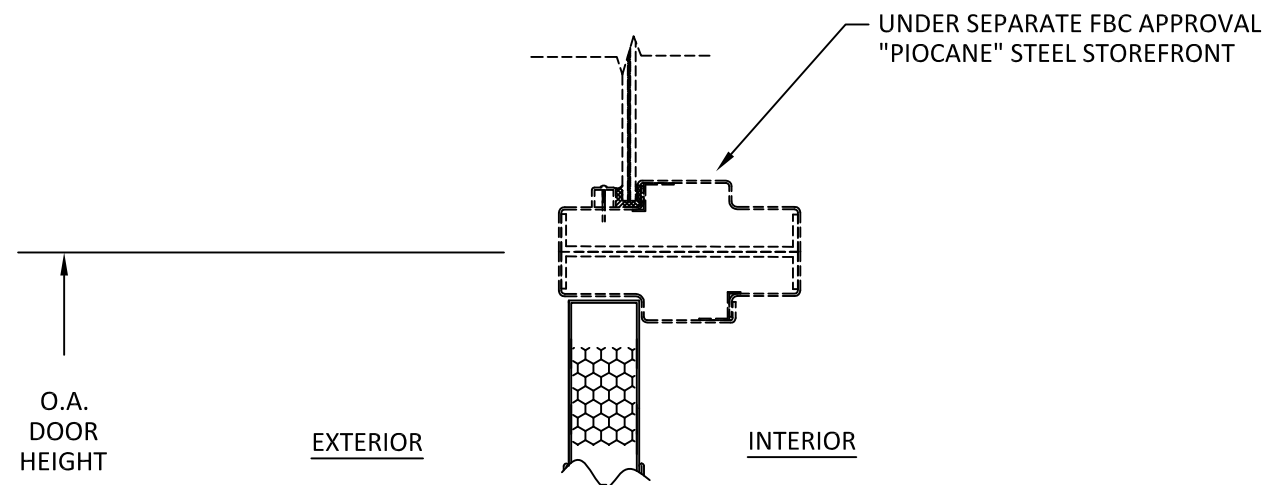
J
5 **VERTICAL SECTION**
HEAD - CONCRETE



K
5 **VERTICAL SECTION**
SILL - 2X WOOD BUCK



L
5 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK



M
5 **VERTICAL SECTION**
HEAD - HORIZONTAL MULLION

PIONEER
ASSA ABLOY

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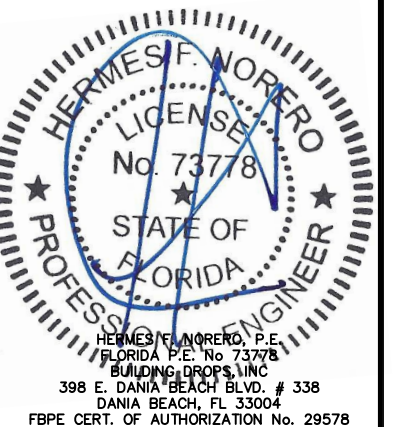
VERTICAL SECTIONS

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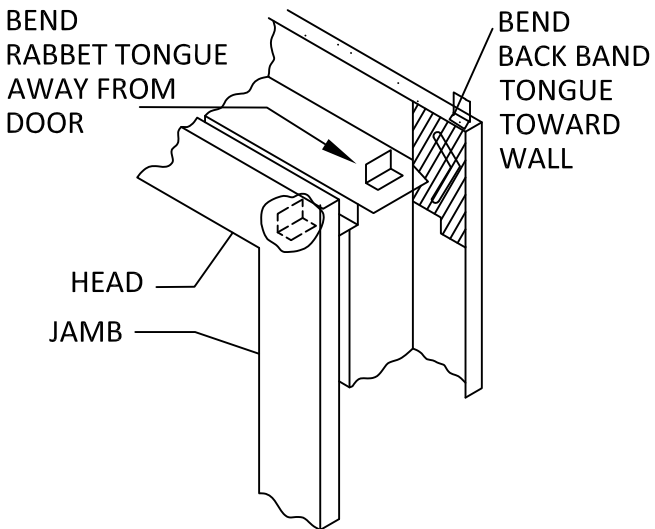
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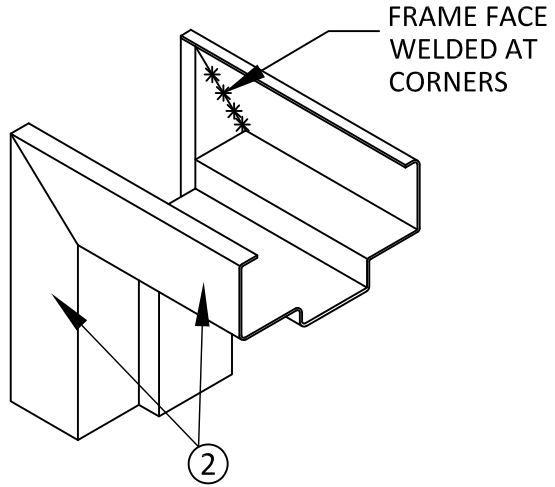


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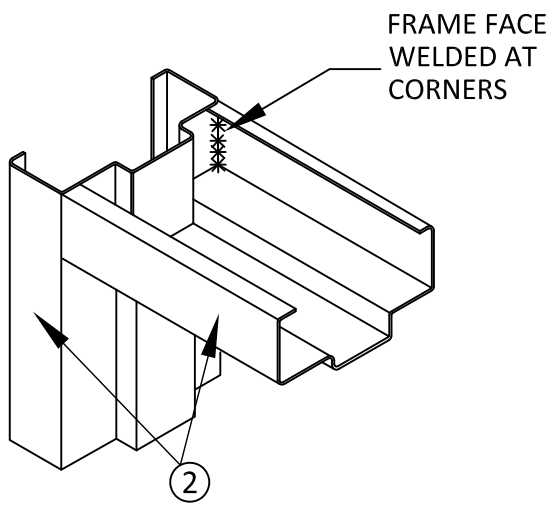
FRAME CORNER CONSTRUCTION AND HINGE REINFORCEMENTS.



PANEL CORNER CONSTRUCTION

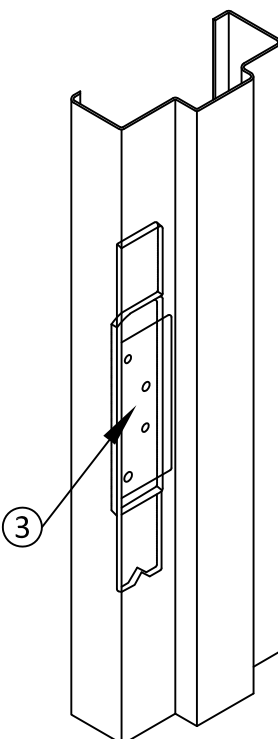


WELDED MITERED FRAME CORNER

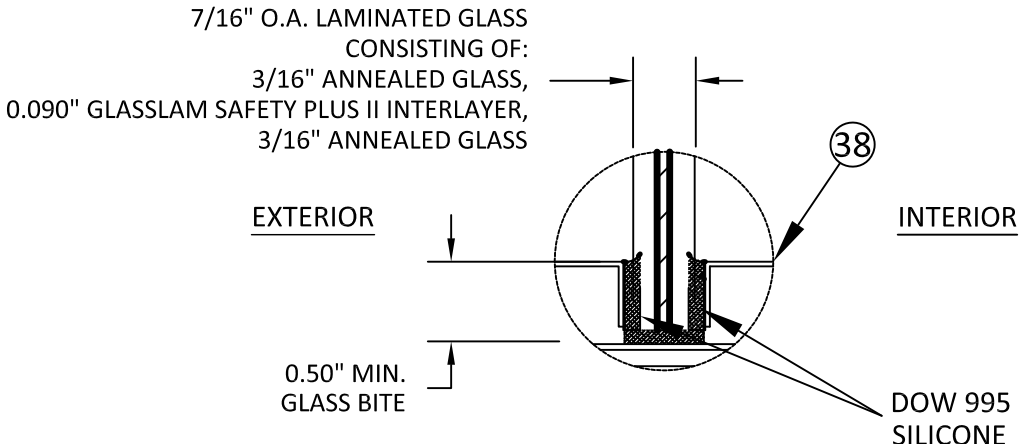


BUTT END WELDED FRAME CORNER

NOTE:
1. ALL DIMENSIONS ARE IN INCHES
2. THK OF SHIM PLATE = 0.43"



HINGE PREPARATION



GLAZING DETAIL 1

NOTE:
1. GLASS MEETS REQUIREMENTS OF ASTM E1300.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS ON PAGE 2.



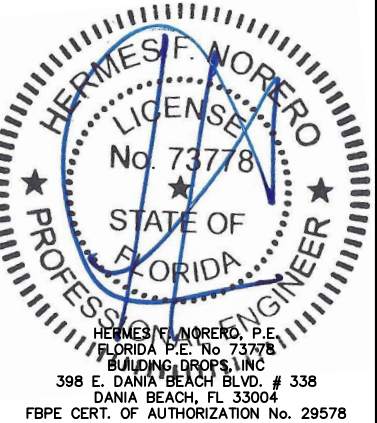
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TITLE:
SERIES PIOCANE
GLAZED STEEL DOOR
(HVHZ)(IMPACT)
CORNER CONSTRUCTION
& GLAZING DETAIL

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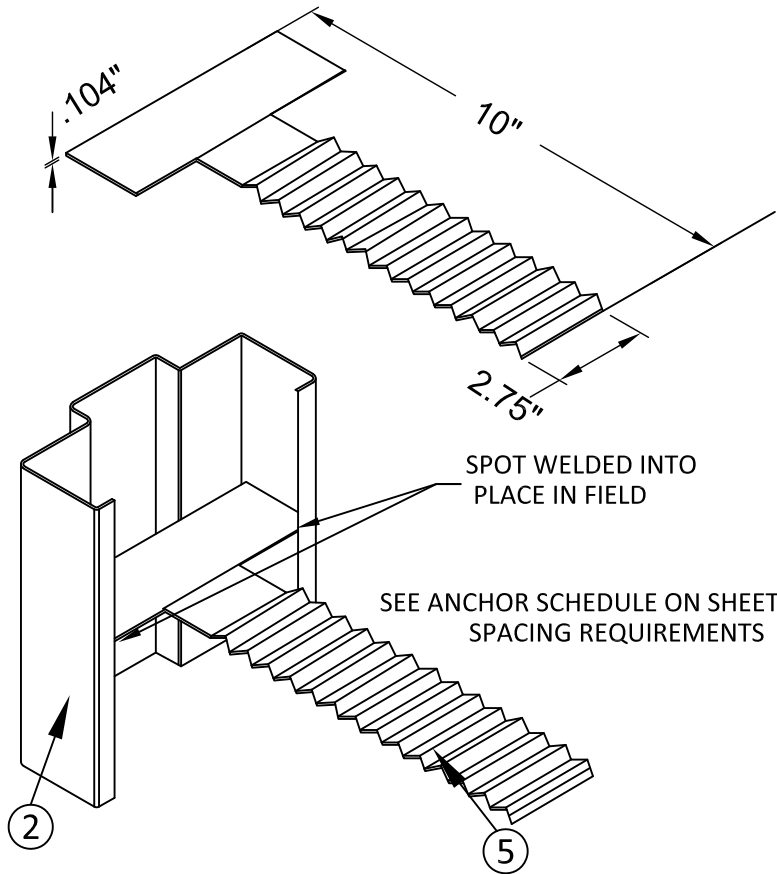
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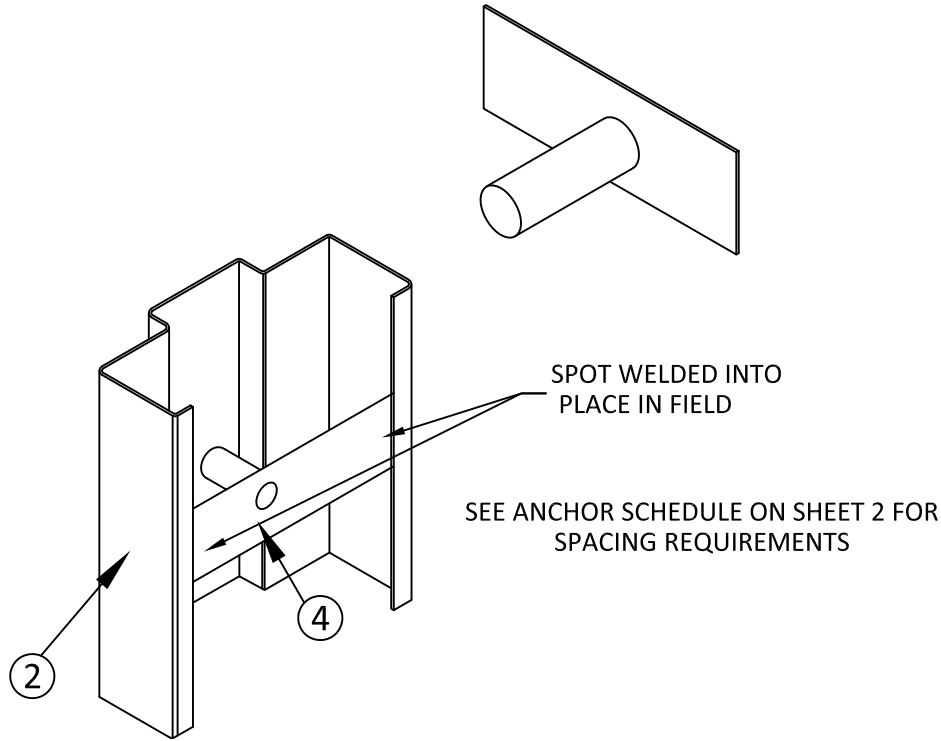
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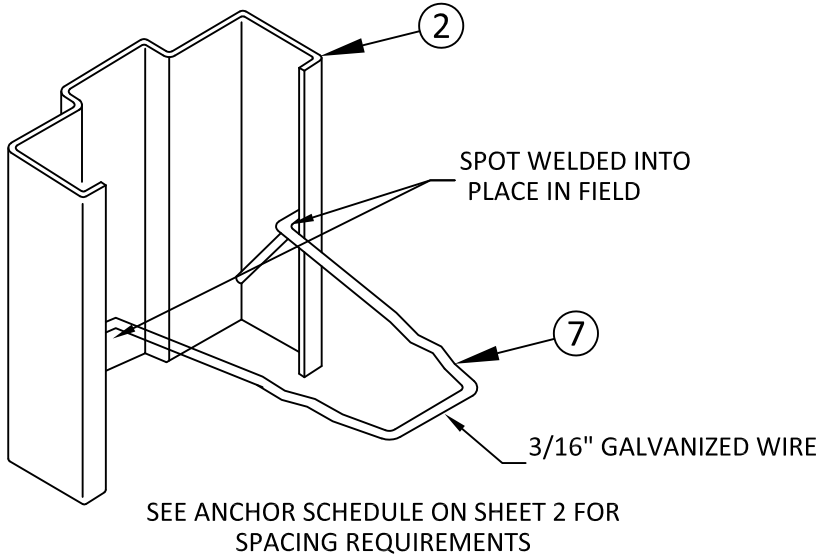
MASONRY ANCHORS



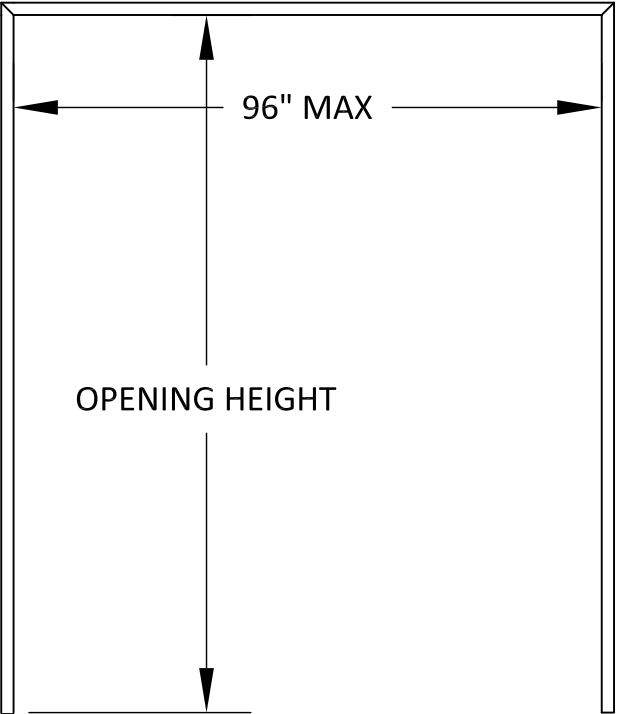
T-STRAP MASONRY ANCHOR



PIPE & STRAP ANCHOR



3/16" WIRE MASONRY ANCHOR



FOR PAIR DOORS ONLY



111 KERO ROAD
CARLSTADT, NJ 07072
PH: 201-933-1900 FX: 201-933-9580

TITLE:

SERIES PIOCANE
GLAZED STEEL DOOR
(HVHZ)(IMPACT)

MASONRY ANCHORS

PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
5TH EDITION FBC REVISIONS	LS	8/07/15
2020 FBC UPDATE	NUS	10/28/20

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HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL14446

DATE:
12.14.10

DWG. BY:
JLA

CHK. BY:
HFN

SCALE:
NTS

DWG. #:
PI002

SHEET
7

OF 9

BILL OF MATERIALS		
ITEM	QUANTITY	DESCRIPTION
1	_____	DOOR -18 GA.(0.043")MIN., 14 GA.(0.068")MAX (COLD ROLLED OR GALVANNEALED STEEL)
2	_____	FRAMES -16 GA. (0.053") MIN., 12 GA. (0.094") MAX WELDED OR KD FRAME (COLD ROLLED,GALVANNEALED STEEL) JAMB DEPTH 5-3/4" MIN,12" MAX
3	AS INDICATED	7 GA.(0.177") MIN. FRAME HINGE REINFORCEMENT
4	AS INDICATED	16 GA. (0.053")MIN.PHOENIX ANCHOR/PIPE AND STRAP ANCHOR
5	AS INDICATED	12 GA.(0.104"MIN) MASONRY T ANCHOR
6	AS INDICATED	3/16" TAPCON 1-1/4" MINIMUM EMBEDMENT
7	AS INDICATED	3/16" DIAMETER STEEL WIRE ANCHORS - SPACING PER TEST REPORT
8	AS INDICATED	3/8" FLAT HEAD EXPANSION SHELL ANCHOR BOLTS SEE SHEET 3 FOR QUANTITY 3" MINIMUM EMBEDMENT
9	1	16 GA .(0.053") MIN., TOP END CHANNEL
10	1	16 GA .(0.053") MIN., BOTTOM END CHANNEL
11	1	12 GA. (0.094")MAX., TOP CAP
12	1	12 GA. (0.094")MAX., BOTTOM CAP
13	1	16 GA. (0.053") MIN DOOR LOCK REINFORCEMENT
14	1	7 GA DOOR HINGE REINFORCEMENT
15	1	1 POUND NOMINAL DENSITY EXPANDABLE POLYSTYRENE
16	1	SCHLAGE 600 SERIES DEADLOCK
17	2	VON DUPRIN SURFACE VERTICAL ROD EXIT DEVICE PER DOOR LEAF
18	2	VON DUPRIN 99 OR XP99 RIM EXIT DEVICE PER DOOR LEAF
19	1	SCHLAGE ND SERIES CYLINDRICAL LOCK
20	2	IVES 458 TOP AND BOTTOM MANUAL FLUSHBOLTS OR MANUAL SLIDEBOLT
21	1	16 GA. (0.068") MIN. CUTOUT CHANNEL REINFORCING
22	1	14 GA. (0.068") MIN. HINGE SIDE EXIT REINFORCING
23	1	9/16" THICK GLASSLAM SAFETY PLUS II LAMINATED GLAZING
24	1	8" CMU BLOCK FILLED WITH 2000 PSI MORTAR
25	AS INDICATED	LAMINATED HONEYCOMB PANEL OR POLYSTYRENE PANEL
26	AS INDICATED	4-1/2" X 4-1/2" X 0.134" OR 0.180" ; 5" X 5" X 0.146" OR 0.190" STEEL HINGES-IVES
27	1	ZERO WEATHERSTRIP PER FRAME MEMBER
28	1	ZERO ALUMINIUM THRESHOLD #65A, 1/2" TALL X 5" X NOMINAL DOOR WIDTH
29	AS INDICATED	2X WOOD BUCK
30	1	POURED CONCRETE 2000 PSI (MIN)
31	1	14 GA Z ASTRAGAL
32	1	ZERO #328A PER DOOR LEAF AT MEETING EDGE OF PAIRS OF DOORS; NOT REQD FOR SINGLE DOORS
33	1	VON DUPRIN #9954 HARDWARE MULLION
34	2	14 GA. (0.068") MIN OPTIONAL CLOSER REINFORCEMENT PER DOOR
35	1	FRAME HEAD REINFORCEMENT FOR PAIR DOOR FRAME
36	AS INDICATED	#10 SHEET METAL TYPE SCREW 1-3/8" MINIMUM EMBEDMENT
37	1	STRIKE JAMB REINFORCEMENT REQUIRED FOR SINGLE DOORS WITH RIM EXIT.
38	-	DOOR VISION KIT - ATTACHED W/ #8-32 X 1 7/16" FHMS WITH SEX BOLT 2" FROM ENDS, 7 1/4" OC-HEAD AND SILL, 6 7/8" OC-JAMBS



ASSA ABLOY

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SERIES PIOCANE
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BILL OF MATERIALS

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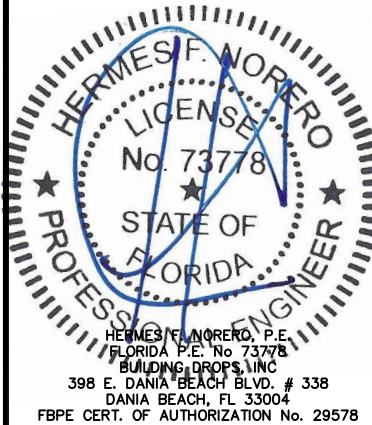
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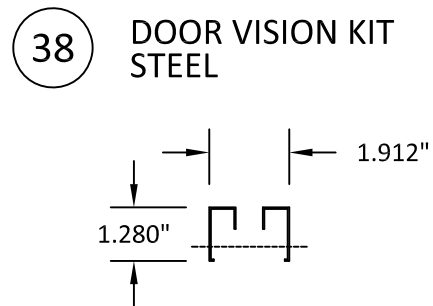
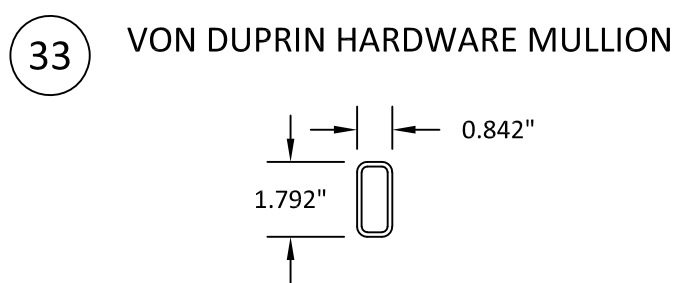
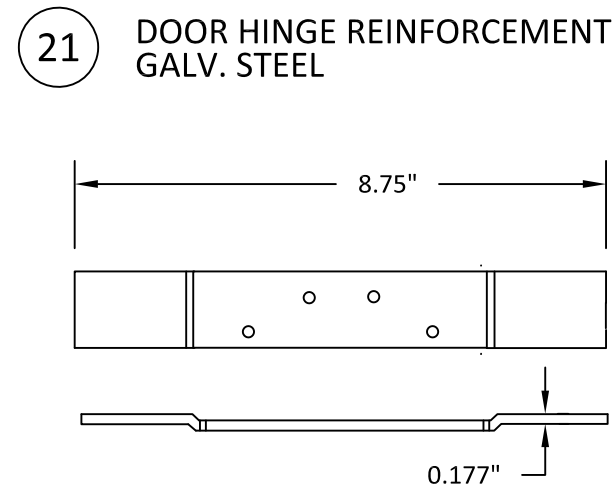
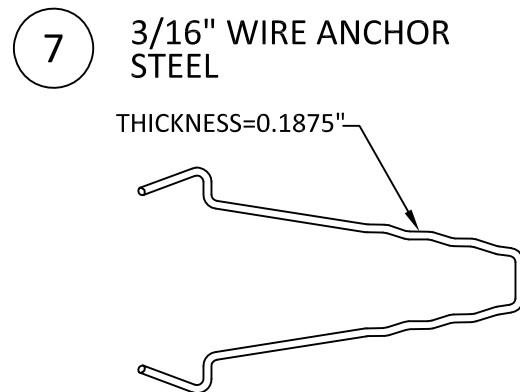
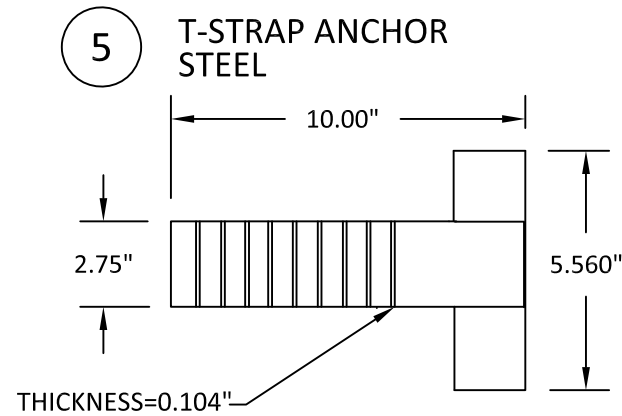
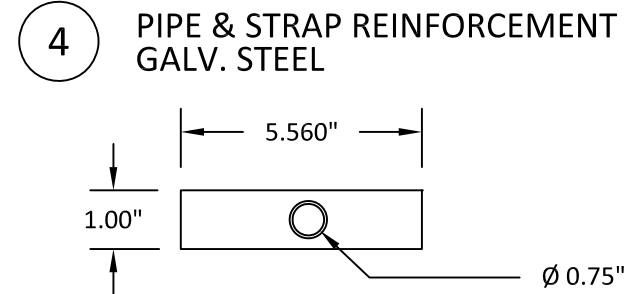
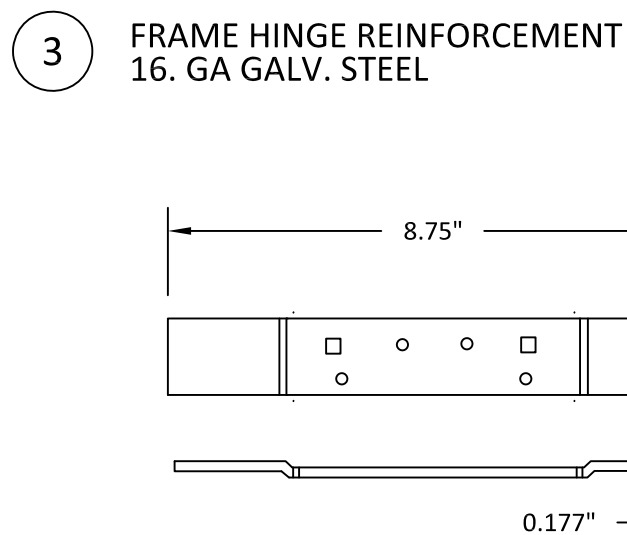
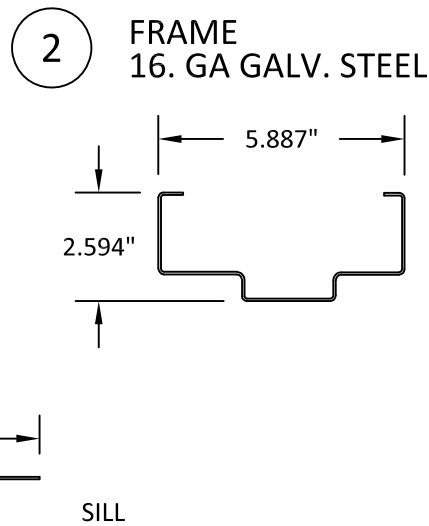
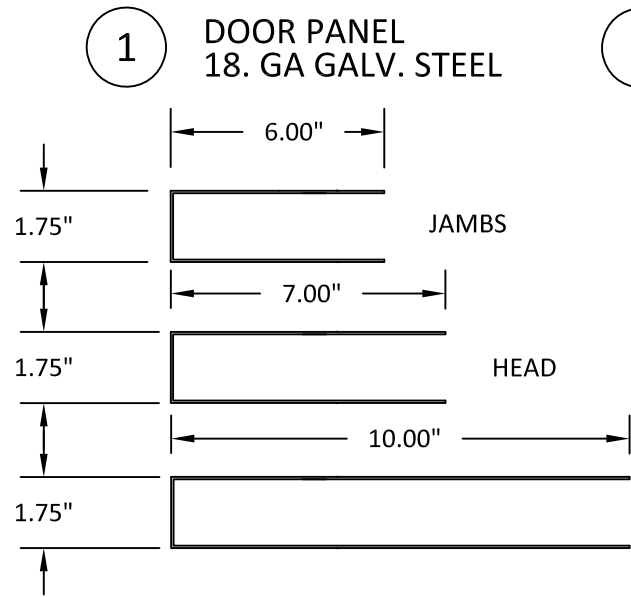
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PIONEER
ASSA ABLOY

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PH: 201-933-1900 FX: 201-933-9580

TITLE: SERIES PIOCANE
GLAZED STEEL DOOR
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COMPONENTS

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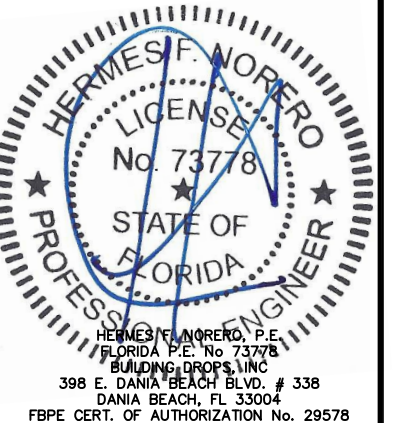
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