

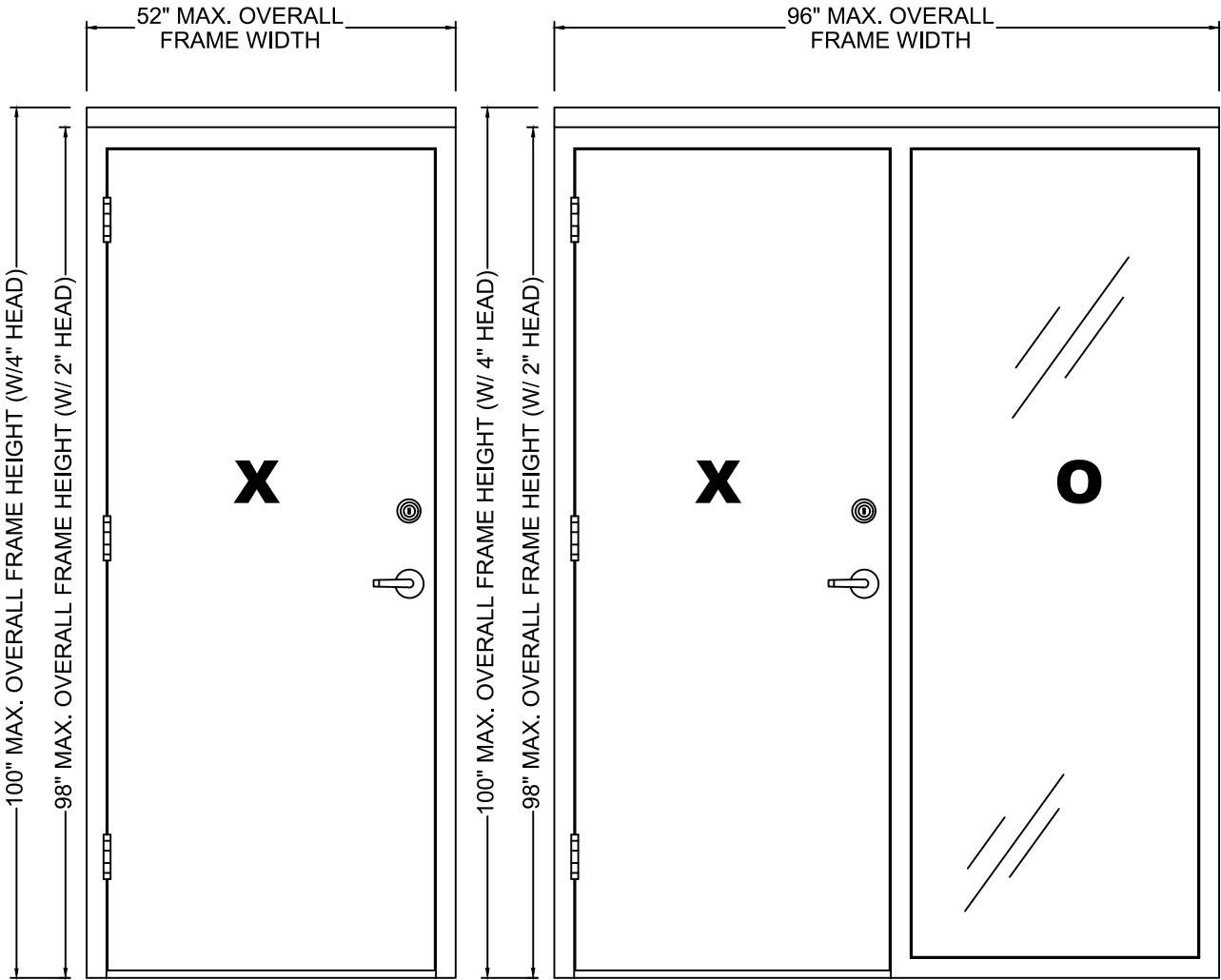


2501 Northchase Parkway SE
Wilmington, NC 28405
Phone: (910) 452-1845
Fax: (910) 452-1848

SERIES HP STEEL DOOR W/NO SIDELIGHT & TRANSOM
OUTSWING, IMPACT (X, XO, O/XO)

GENERAL NOTES

1. THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE 6TH EDITION (2017) FLORIDA BUILDING CODE (FBC) REQUIREMENTS INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AND HAS BEEN EVALUATED TO THE FOLLOWING.
1.1. TAS 201-1994
1.2. TAS 202-1994
1.3. TAS 202-1994
2. PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
3. WHEN USED IN THE "HVHZ" THIS PRODUCT COMPLIES WITH SECTION 1626 OF THE FLORIDA BUILDING CODE AND DOES NOT REQUIRE AN IMPACT RESISTANT COVERING.
4. WHEN USED IN AREAS OUTSIDE OF THE "HVHZ" REQUIRING WIND BORNE DEBRIS PROTECTION THIS PRODUCT COMPLIES WITH SECTION 1609.1.2 OF THE FBC AND DOES NOT REQUIRE AN IMPACT RESISTANT COVERING. THIS PRODUCT MEETS MISSILE LEVEL "D" AND INCLUDES WIND ZONE 4 AS DEFINED IN ASTM E1996 AND SECTION 1609.1.2.2 OF THE FBC.
5. SITE CONDITIONS THAT DEVIATE FROM THE DETAILS OF THIS DRAWING REQUIRE FURTHER ENGINEERING ANALYSIS BY A LICENSED ENGINEER OR REGISTERED ARCHITECT.
6. THIS PRODUCT DOES NOT MEET THE WATER INFILTRATION REQUIREMENTS OF THE FBC AND SHALL BE INSTALLED ONLY IN NON-HABITABLE AREAS OR AT HABITABLE LOCATIONS PROTECTED BY AN OVERHANG OR CANOPY SUCH THAT THE OVERHANG RATIO (OH) = OH LENGTH / OH HEIGHT IS EQUAL TO OR GREATER THAN 1.
7. ALL STEEL SHALL BE PROTECTED AS SPECIFIED IN SECTION 2222.6 OF THE FBC.
8. SEE MIAMI-DADE NOA NO. 18-0504.08 FOR CARPENTER CO. PREFORMED BLOCK TYPE EPS INSULATION COMPONENT APPROVAL.
9. SEE MIAMI-DADE NOA NO. 17-0712.05 FOR EASTMAN CHEMICAL CO. SAFLEX PVB INTERLAYER COMPONENT APPROVAL.



1

STEEL DOOR

2

STEEL DOOR W/ SIDELIGHT

3

STEEL DOOR W/ SIDELIGHT & TRANSOM

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13	BILL OF MATERIALS AND COMPONENTS

DOOR TYPES	MAXIMUM OVERALL SIZE			DESIGN PRESSURE (PSF)	
	DOOR FRAME	OPERABLE PANEL	GLAZED FIXED PANEL D.L.O.	POSITIVE	NEGATIVE
SINGLE DOOR	52" x 98"	47.75" x 95.5"	n/a	+65	-70
SINGLE DOOR W/SIDELIGHT	96" x 98"	47.75" x 95.5"	40.75" x 92.75"	+65	-70
SINGLE DOOR W/SIDELIGHT & TRANSOM	96" x 122"	47.75" x 95.5"	SIDELIGHT: 40.75" x 92.75" TRANSOM: 90.75" x 18.75"	+65	-70
IMPACT RATING: LARGE AND SMALL MISSILE - HVHZ & WIND ZONE 4, MISSILE LEVEL D					

PROJECT # 416-0603

HMF EXPRESS
2501 NORTHCHASE PARKWAY SE
WILMINGTON, NC 28405

TITLE: SERIES HP STEEL DOOR W/NO SIDELIGHT & TRANSOM, IMPACT
TYP: ELEVATIONS, DESIGN PRESSURES AND GENERAL NOTES

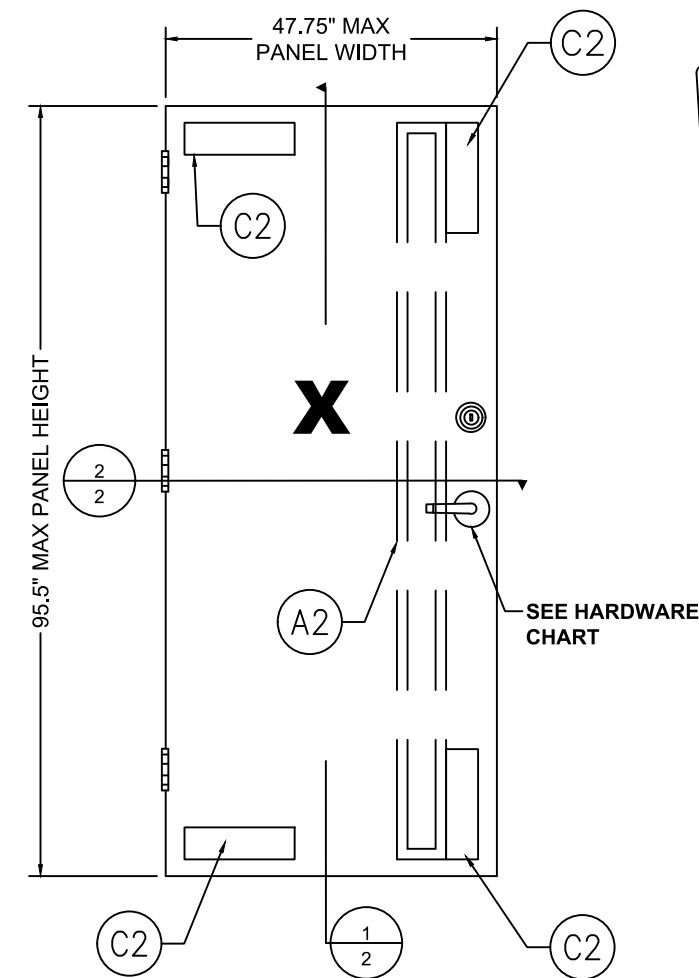
PREPARED BY:
DRAWN BY: DAS
DATE: 2/27/19
SCALE: N.T.S.
REV: -

PDC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@pdc-corp.com

REVISIONS
REV: 1 OF 13
DESCRIPTION
DATE
BY

Robert J. Amoruso, P.E.
Florida P.E. No. 49752



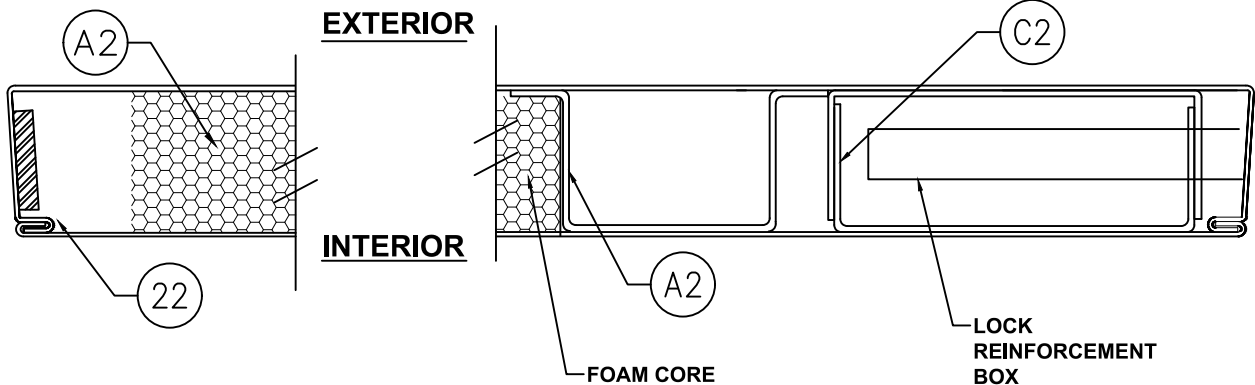


1 OPAQUE STEEL DOOR PANEL

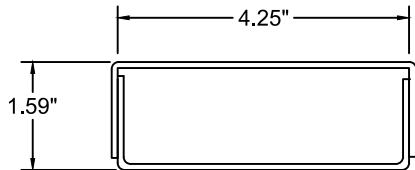
STEEL DOOR SKIN: 18 GA. A60 GALV.
(MIN. 0.0478" THK., Fy=36,800 PSI MIN.)
CORE MATERIAL: EPS FOAM
(POLYSTYRENE - 1.0PCF MIN. DENSITY)

CHANNELS: 16 GA.
(MIN. 0.058" THK.)

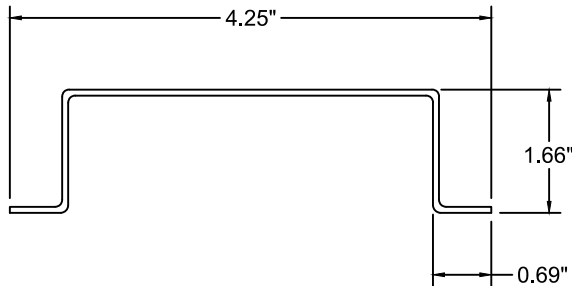
HARDWARE CHART	
MANUFACTURER	MODEL
HAGER	LOCK: 3500 SERIES DEADBOLT: 3200 SERIES



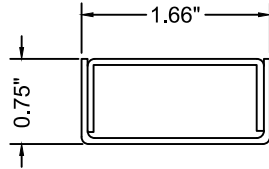
2/2 HORIZONTAL CROSS SECTION
DOOR PANEL



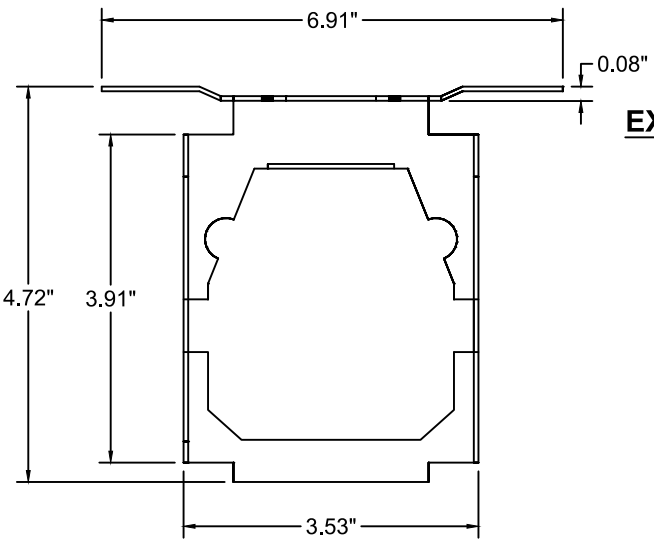
C2 BOX CHANNEL REINFORCEMENT
A60 GALV. STEEL(15" LONG)



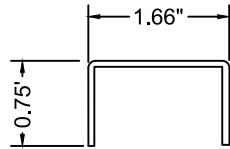
A2 RIB STIFFENER
A60 GALV. STEEL



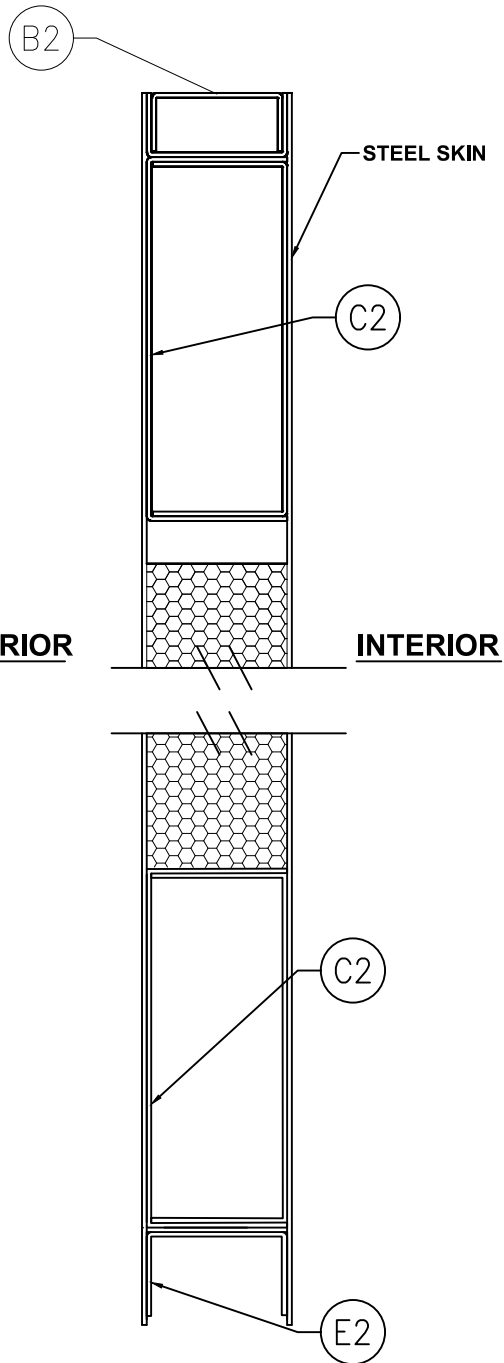
B2 TOP CHANNEL
A60 GALV. STEEL



D2 LOCK BOX



E2 BOTTOM CHANNEL
A60 GALV. STEEL



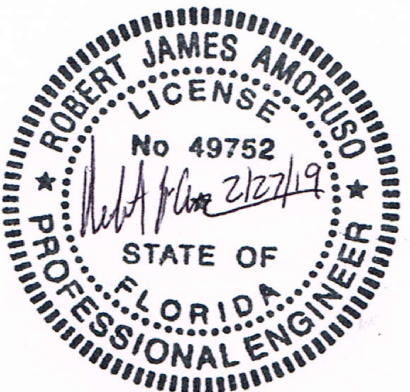
1/2 VERTICAL CROSS SECTION

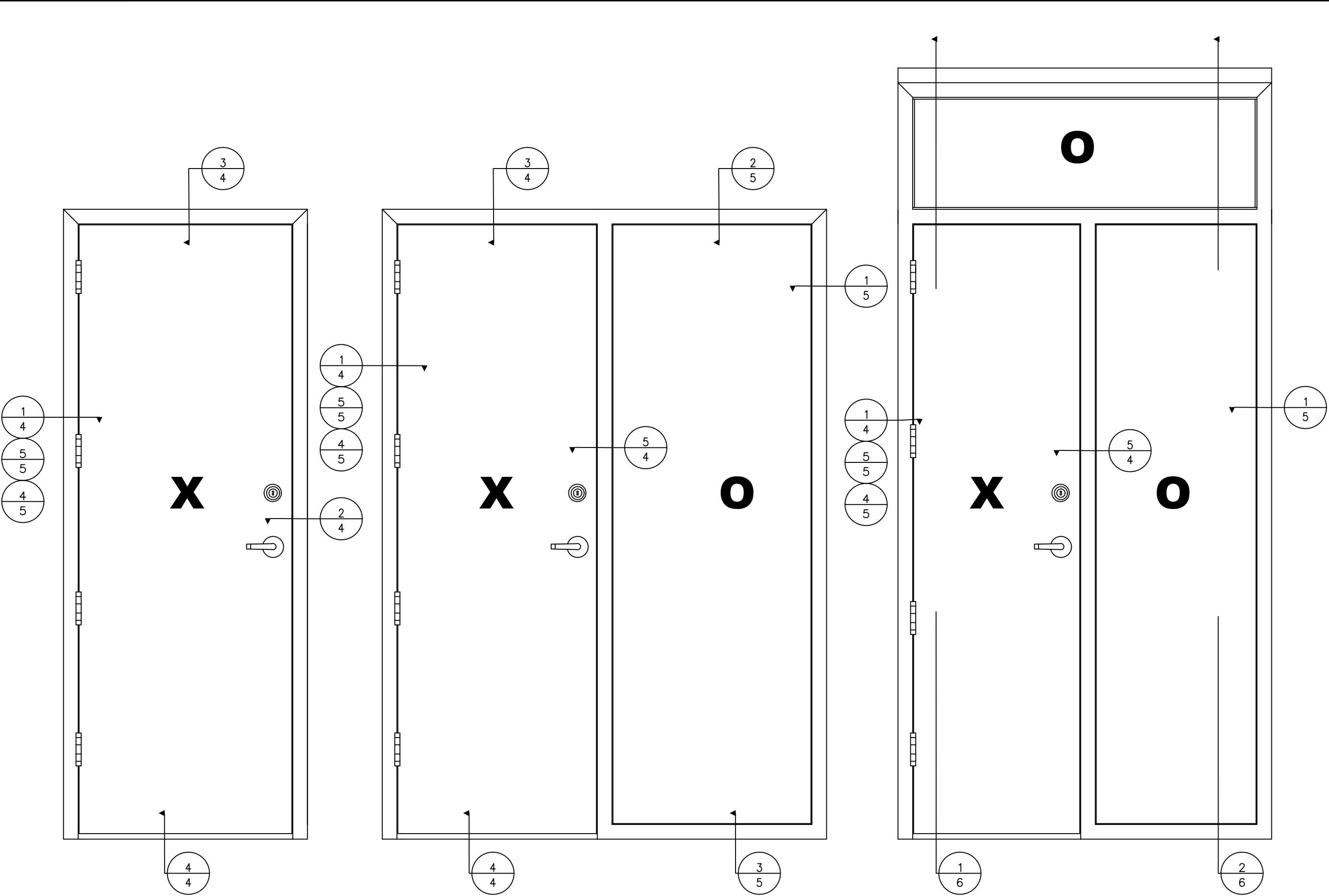
PROJECT # 416-0603

HMF EXPRESS
2501 NORTHCASE PARKWAY SE
WILMINGTON, NC 28405
TITLE: SERIES HP STEEL DOOR W/WO SIDELIGHT & TRANSOM, IMPACT
DOOR PANEL DETAILS

DRAWN BY:	DATE:	DRAWING NO:	SHEET:
DAS	2/27/19	HMF0003	2 OF 13
SCALE:	N.T.S.	REV:	-
PREPARED BY:	PTC PRODUCT DESIGN GROUP, LLC	PO BOX 520775	LONGWOOD, FL 32752
	Phone: 321.690.1788	Fax: 321.690.1789	Email: info@ptc-corp.com
	FBPE C.A. NO. 28335		

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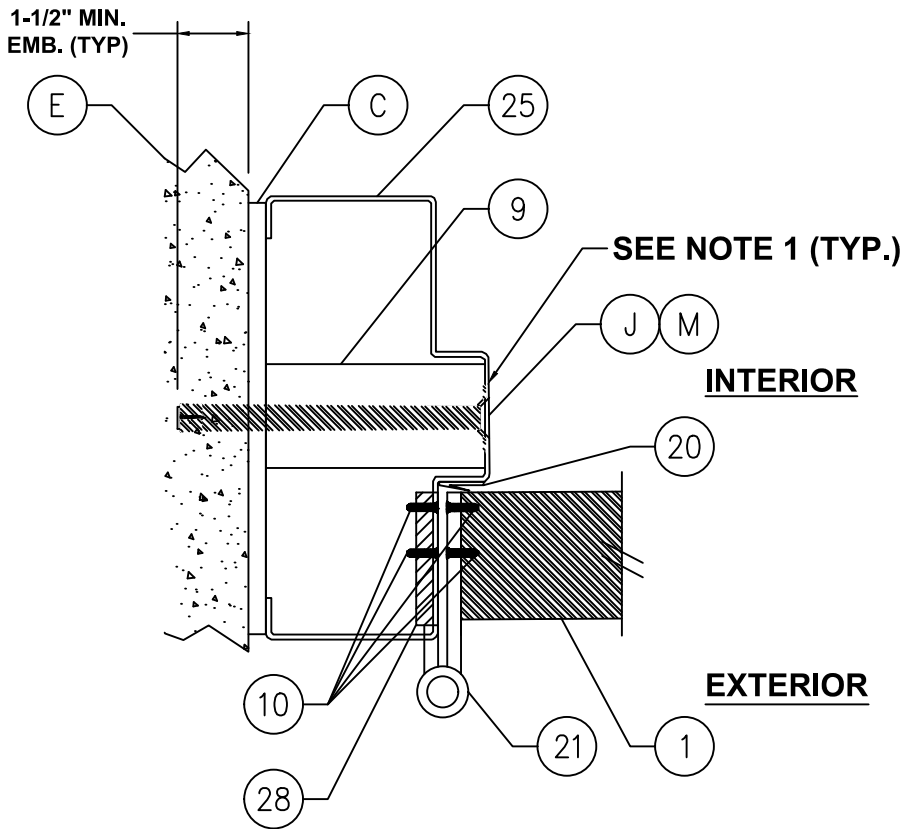
PROJECT # 416-0603	
HMF EXPRESS 2501 NORTHCHASE PARKWAY SE WILMINGTON, NC 28405	
TITLE: SERIES HP STEEL DOOR W/WO SIDELIGHT & TRANSOM, IMPACT DOOR ELEVATIONS	
PREPARED BY:	DATE: 2/27/19
DRAWN BY: DAS	DRAWING NO: HMF0003
SCALE: N.T.S.	SHEET: 3 OF 13
REV: -	REV/ DESCRIPTION DATE BY

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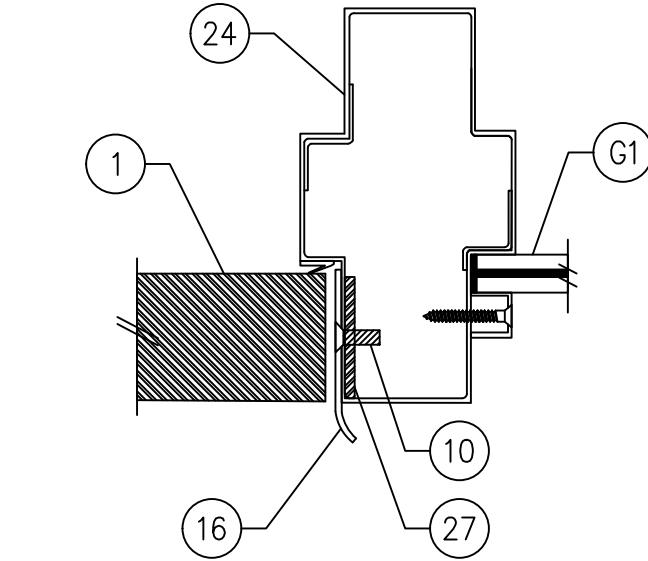
Robert J. Amoruso, P.E.
Florida P.E. No. 49752

PROFESSIONAL ENGINEER
STATE OF FLORIDA
LICENSE No 49752
2/27/19

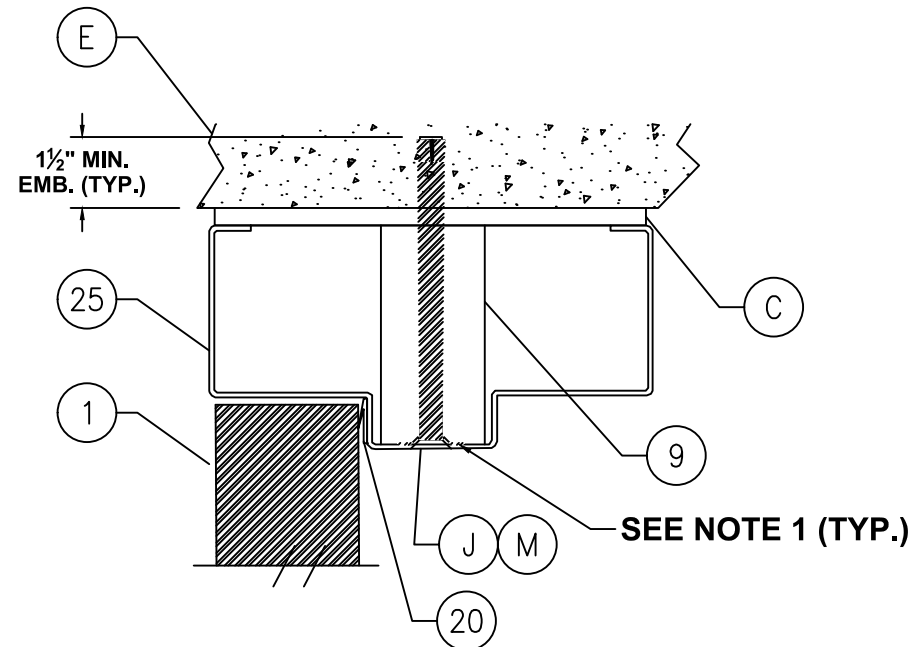
NOTE:
1. SPOT WELD ANCHOR BRACKET TO FRAME. 2 WELDS PER FLANGE (4 TOTAL PER BRACKET). ALTERNATIVELY MIG WELD, 1 PER FLANGE (2 TOTAL PER BRACKET).



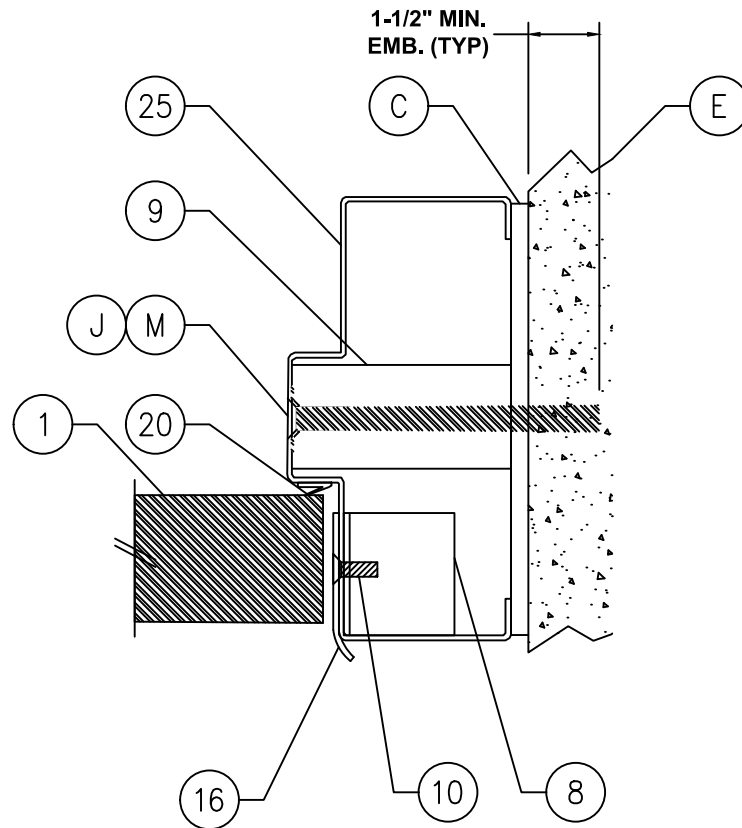
HORIZONTAL CROSS SECTION



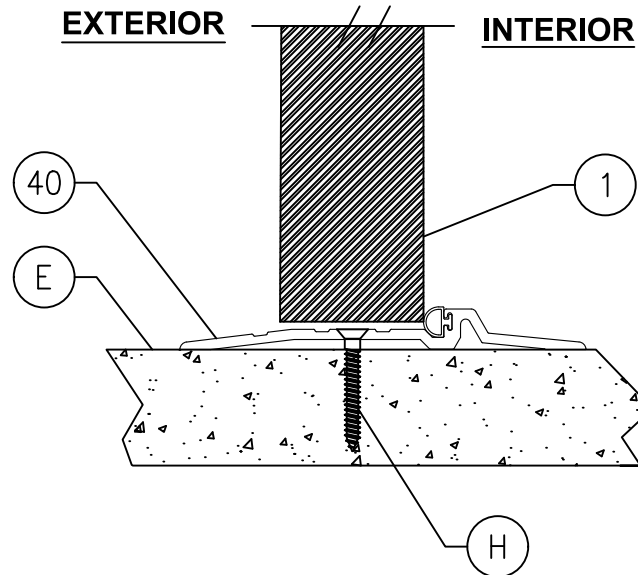
HORIZONTAL CROSS SECTION



VERTICAL CROSS SECTION



HORIZONTAL CROSS SECTION



VERTICAL CROSS SECTION

PROJECT # 416-0603

HMF EXPRESS

2501 NORTHCASE PARKWAY SE

WILMINGTON, NC 28405

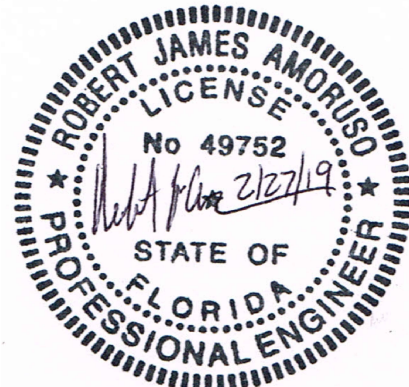
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HORIZONTAL & VERTICAL CROSS SECTIONS

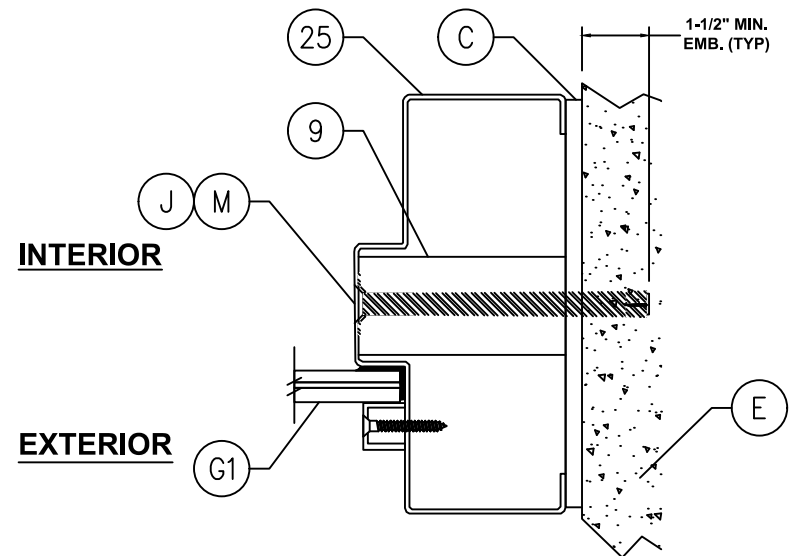
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DRAWING NO: HMF0003
SHEET: 4 OF 13

DRAWN BY: DAS
SCALE: N.T.S.
REV: -

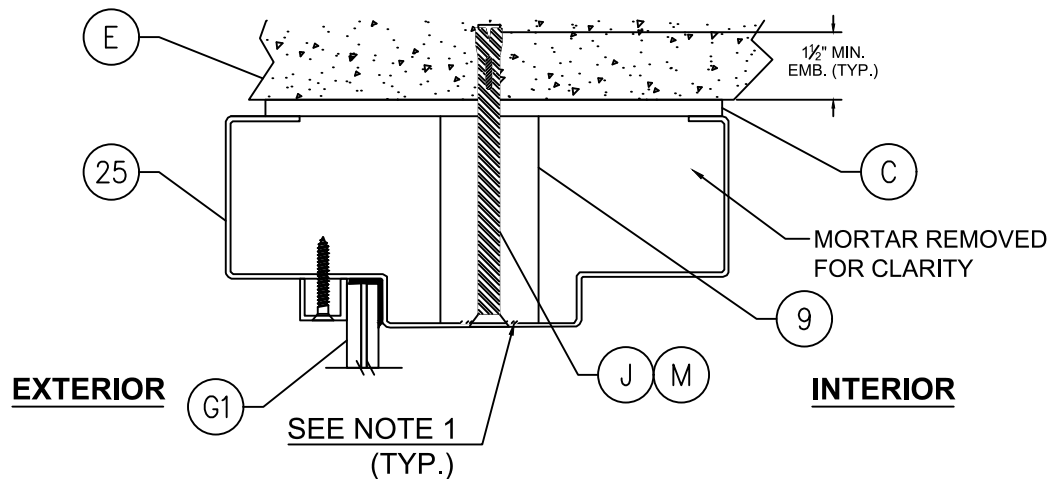
PREPARED BY: PTC
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
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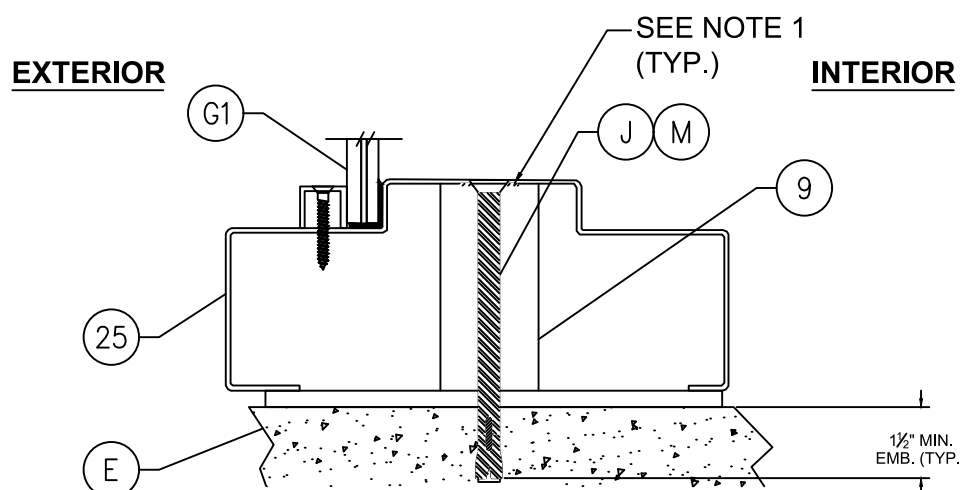




1
5 HORIZONTAL CROSS SECTION



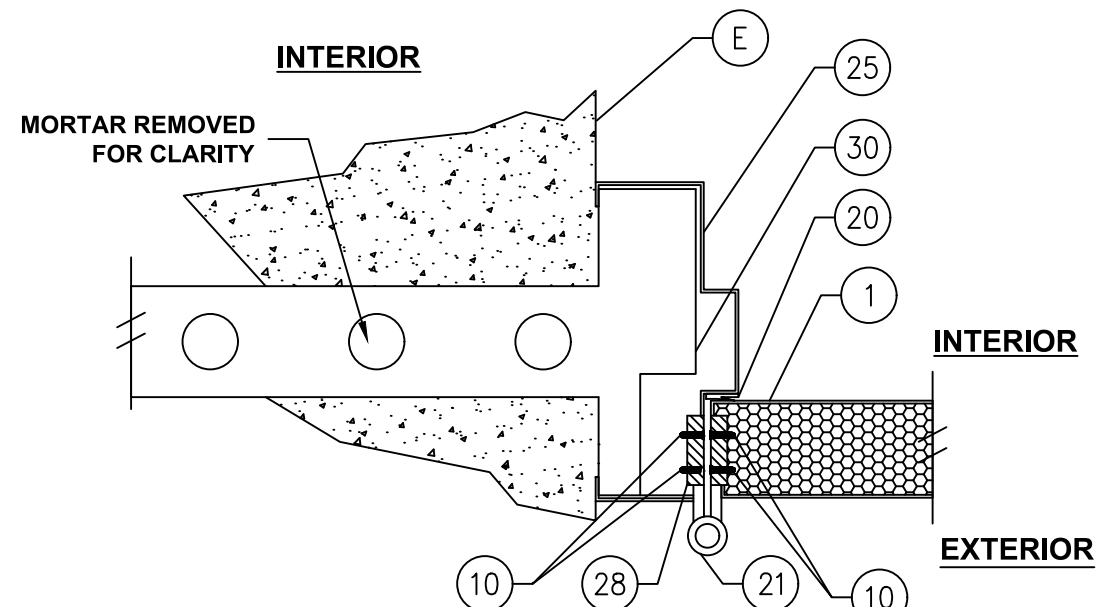
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5 VERTICAL CROSS SECTION



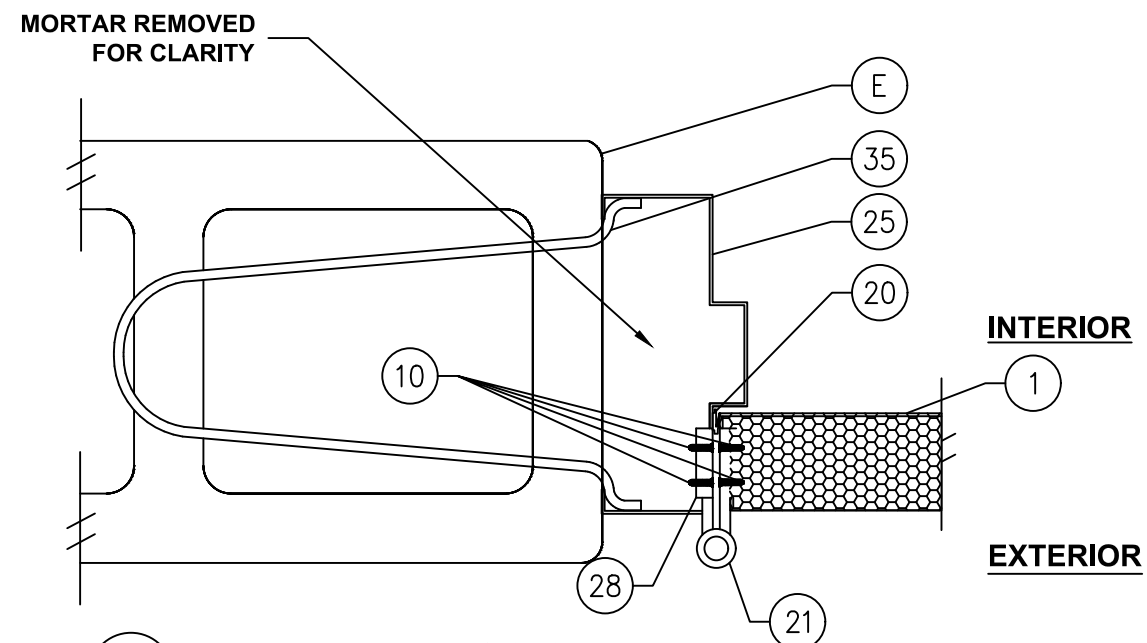
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5 VERTICAL CROSS SECTION

NOTE:

1. SPOT WELD ANCHOR BRACKET TO FRAME. 2 WELDS PER FLANGE (4 TOTAL PER BRACKET). ALTERNATIVELY MIG WELD, 1 PER FLANGE (2 TOTAL PER BRACKET).



4
5 HORIZONTAL CROSS SECTION



5
5 HORIZONTAL CROSS SECTION

PROJECT # 416-0603

HMF EXPRESS
2501 NORTHCHASE PARKWAY SE
WILMINGTON, NC 28405

TITLE: SERIES HP STEEL DOOR W/WO SIDELIGHT & TRANSOM, IMPACT
HORIZONTAL & VERTICAL CROSS SECTIONS

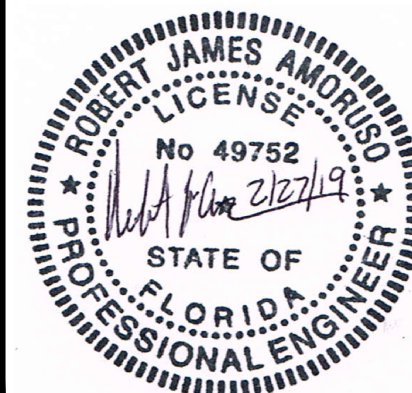
PREPARED BY: DAS DATE: 2/27/19

SCALE: N.T.S. DRAWING NO: HMF0003

REV: - SHEET: 5 OF 13

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Robert J. Amoruso, P.E.
Florida P.E. No. 49752



EXTERIOR

INTERIOR

MORTAR REMOVED FOR CLARITY,
THE 4" HEAD REQUIRES REINFORCED
CONCRETE (DESIGNED BY OTHERS)
AND MUST BE TIED INTO THE
SUPPORTING STRUCTURE AT THE
CORNERS

NOTE:

1. SPOT WELD ANCHOR BRACKET TO FRAME.
2 WELDS PER FLANGE (4 TOTAL PER
BRACKET). ALTERNATIVELY MIG WELD, 1
PER FLANGE (2 TOTAL PER BRACKET).

VERTICAL CROSS SECTION

2" HEAD SHOWN. 4" HEAD APPROVED.

EXTERIOR

INTERIOR

VERTICAL CROSS SECTION

2" HEAD SHOWN. 4" HEAD APPROVED.

PROJECT # 416-0603

HMF EXPRESS
2501 NORTHCASE PARKWAY SE
WILMINGTON, NC 28405

TITLE: SERIES HP STEEL DOOR W/WO SIDELIGHT & TRANSOM, IMPACT
HORIZONTAL & VERTICAL CROSS SECTIONS

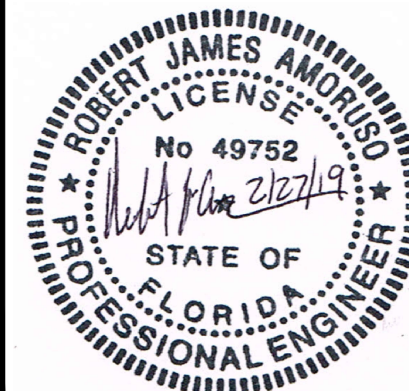
PREPARED BY: DAS DATE: 2/27/19

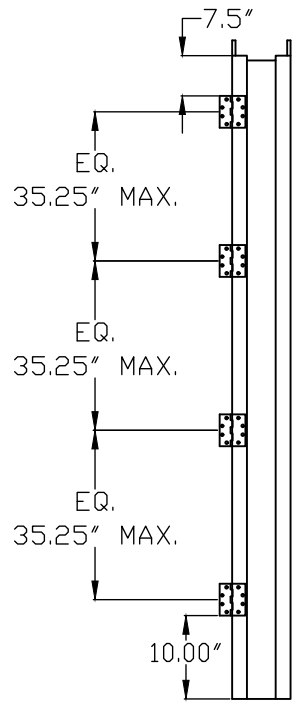
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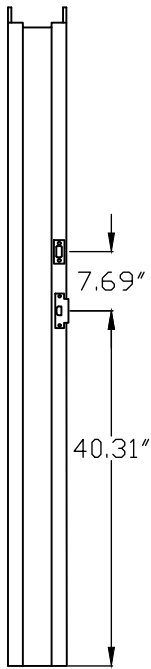
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Robert J. Amoruso, P.E.
Florida P.E. No. 49752

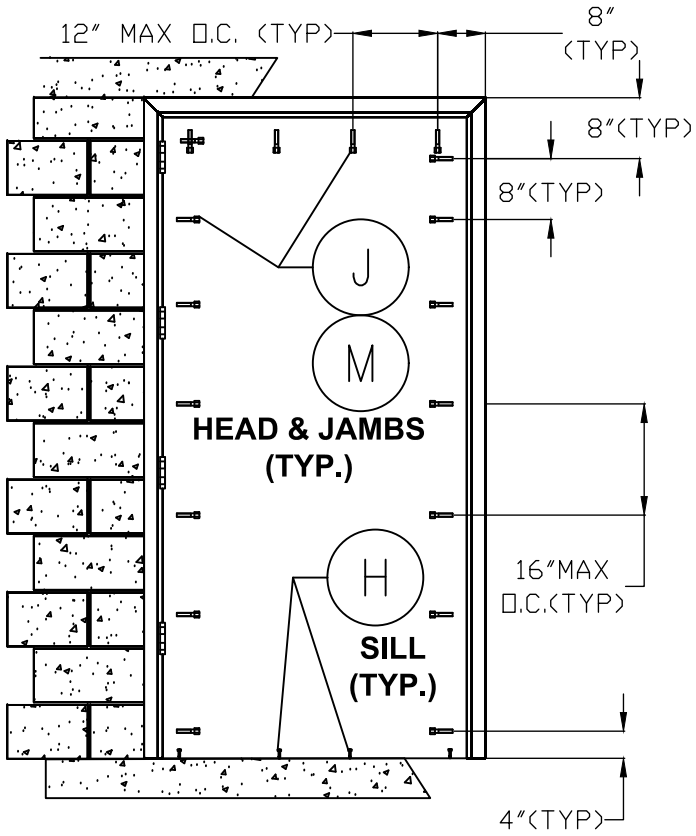




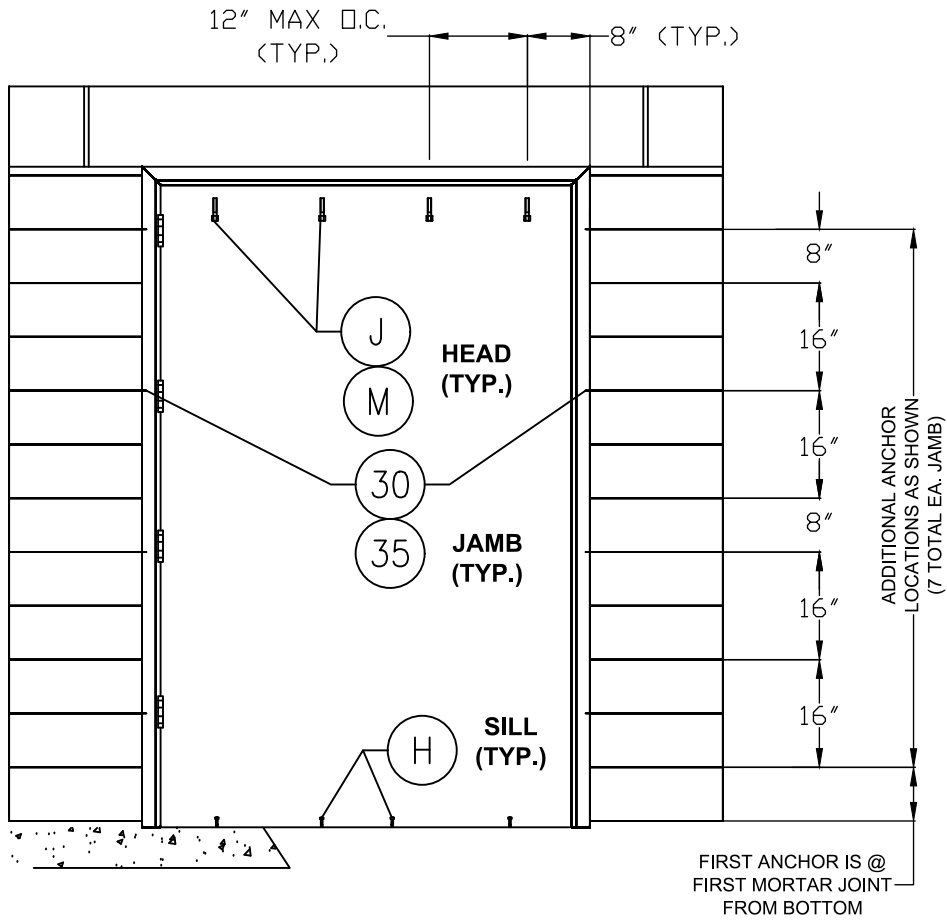
HINGE JAMB



STRIKE JAMB



FRAME ANCHORING
MASONRY CONSTRUCTION
CONCRETE ANCHORS



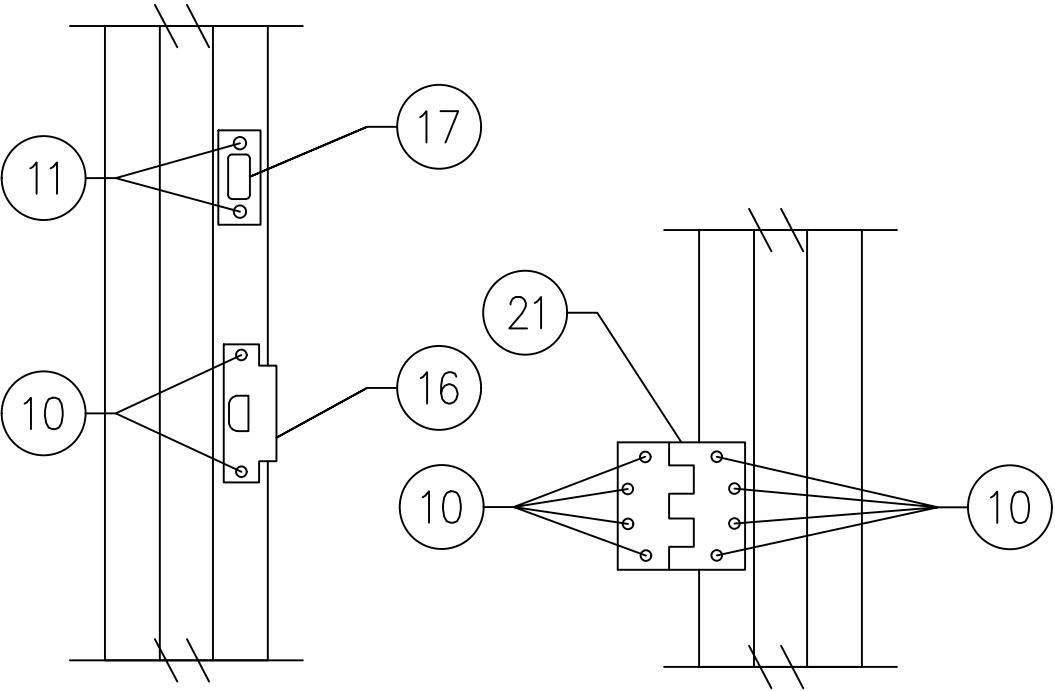
FRAME ANCHORING
MASONRY CONSTRUCTION
MASONRY ANCHORS

CONCRETE ANCHOR NOTES:

1. CONCRETE SCREW LOCATIONS MAY BE ADJUSTED TO MAINTAIN A MINIMUM 1" EDGE DISTANCE TO MORTAR JOINTS. IF CONCRETE SCREW LOCATIONS NOTED AS "MAX. O.C." MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTAR JOINTS, ADDITIONAL CONCRETE SCREWS MAY BE REQUIRED TO ENSURE THE MAXIMUM ON CENTER DIMENSION IS NOT EXCEEDED.

2. CONCRETE ANCHOR TABLE:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	TAPCON (ITW BUILDEX) ULTRA CON CRETE FLEX (ELCO)	2-1/2"	1-1/4"
			TAPPER+ (POWERS)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR (ITW REDHEAD)	2-1/4"	1-1/2"



STRIKE DETAIL

HINGE DETAIL

PROJECT # 416-0603

HMF EXPRESS
2501 NORTHCCHASE PARKWAY SE
WILMINGTON, NC 28405

TITLE: SERIES HP STEEL DOOR W/WO SIDELIGHT & TRANSOM, IMPACT
ANCHORING DETAILS - X CONFIGURATION

PREPARED BY:

DRAWN BY: DAS

DATE: 2/27/19

DRAWING NO: HMF0003

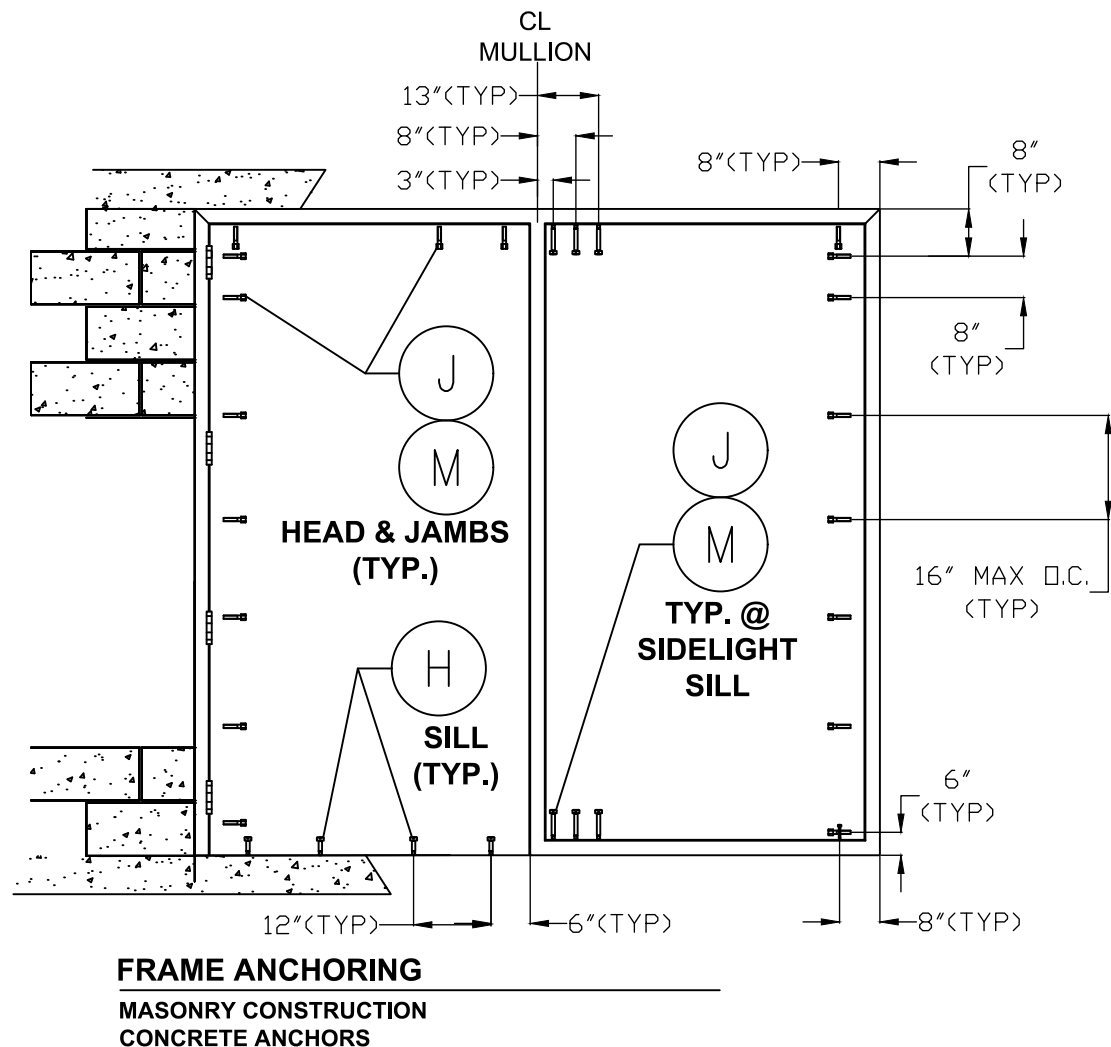
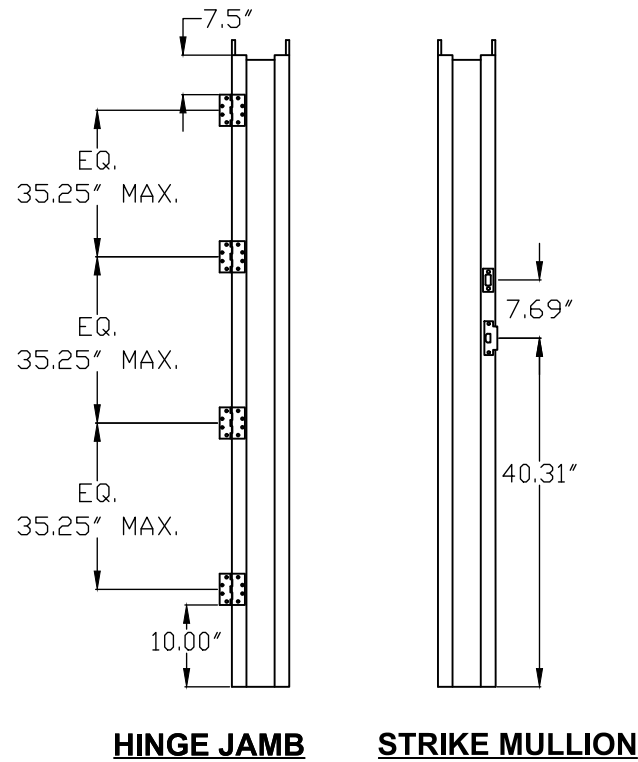
REV:

DESCRIPTION

DATE

BY

Robert J. Amoruso, P.E.
Florida P.E. No. 49752

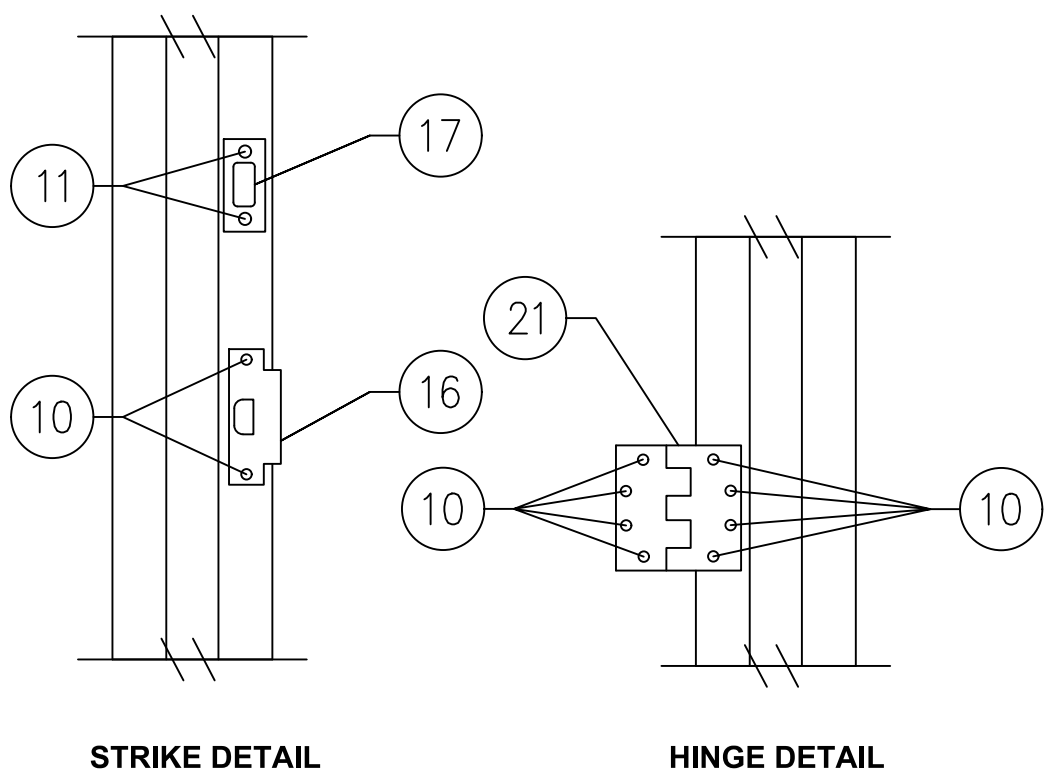


CONCRETE ANCHOR NOTES:

1. CONCRETE SCREW LOCATIONS MAY BE ADJUSTED TO MAINTAIN A MINIMUM 1" EDGE DISTANCE TO MORTAR JOINTS. IF CONCRETE SCREW LOCATIONS NOTED AS "MAX. O.C." MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTAR JOINTS, ADDITIONAL CONCRETE SCREWS MAY BE REQUIRED TO ENSURE THE MAXIMUM ON CENTER DIMENSION IS NOT EXCEEDED.

2. CONCRETE ANCHOR TABLE:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	TAPCON (ITW BUILDEX) ULTRA CON CRETE FLEX (ELCO)	2-1/2"	1-1/4"
			TAPPER+ (POWERS)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR (ITW REDHEAD)	2-1/4"	1-1/2"



Robert J. Amoruso, P.E.
Florida P.E. No. 49752

PROFESSIONAL ENGINEER
STATE OF FLORIDA
No 49752
2/27/19

PROJECT # 416-0603

HMF EXPRESS
2501 NORTHCASE PARKWAY SE
WILMINGTON, NC 28405

TITLE: SERIES HP STEEL DOOR W/WO SIDELIGHT & TRANSOM, IMPACT ANCHORING DETAILS - XO CONFIGURATION

PREPARED BY: DAS
DATE: 2/27/19
SCALE: N.T.S.
DRAWING NO: HMF0003
SHEET: 8 OF 13

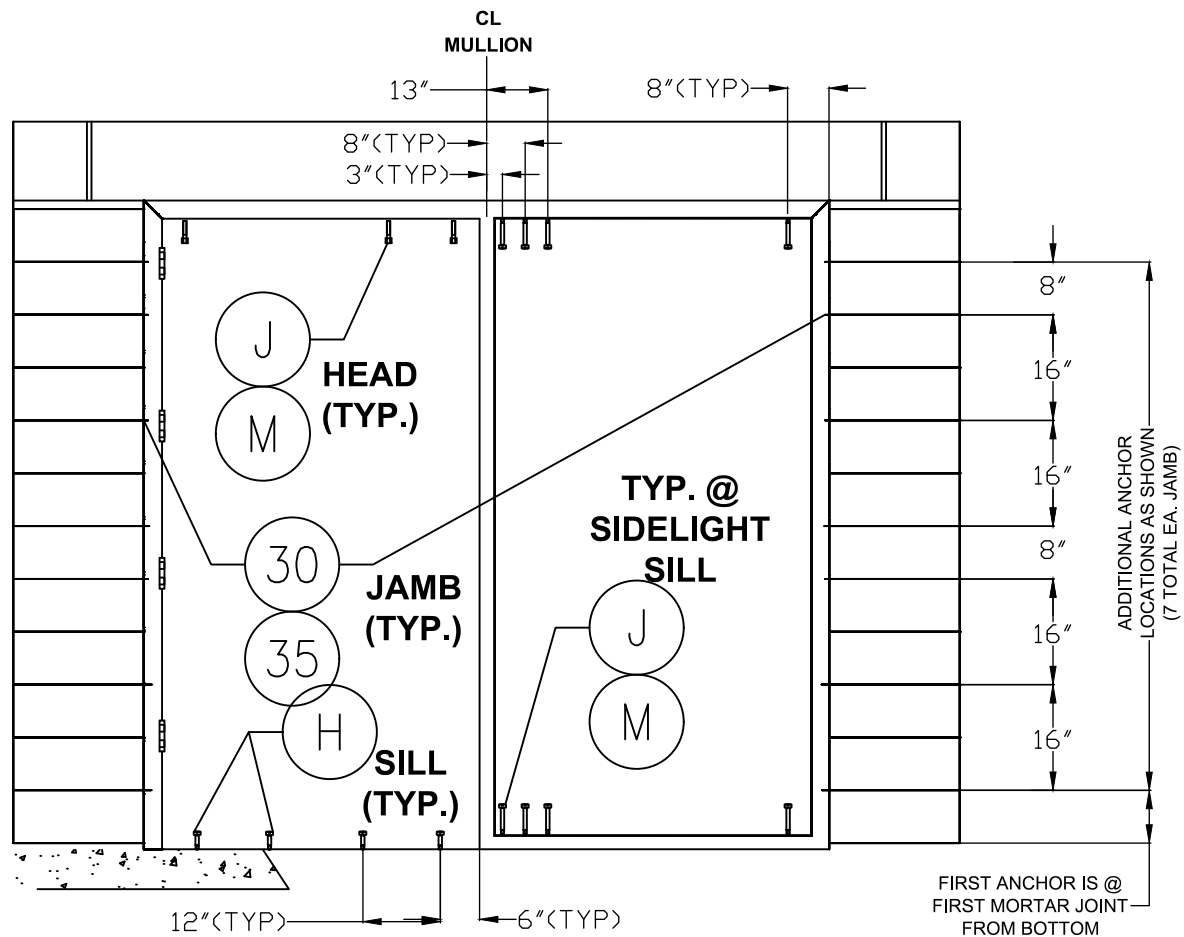
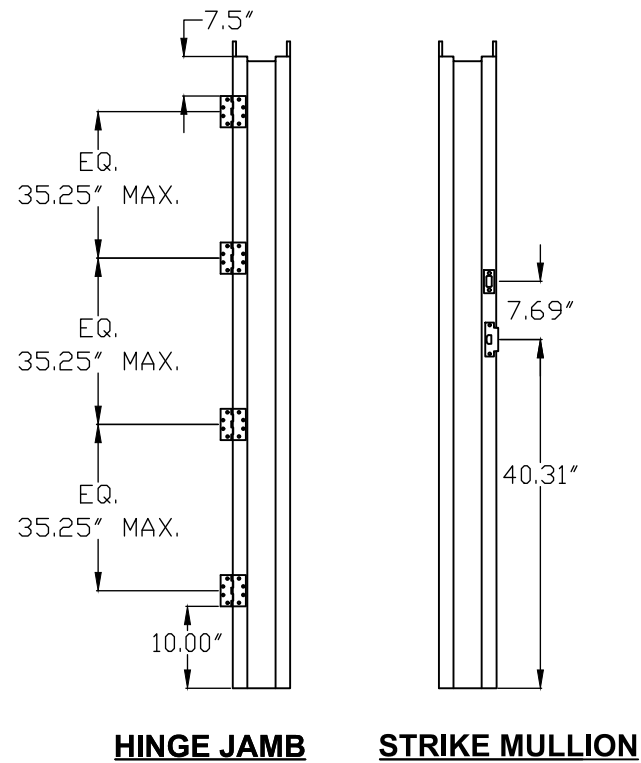
PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

REV: -

DESCRIPTION

DATE

BY



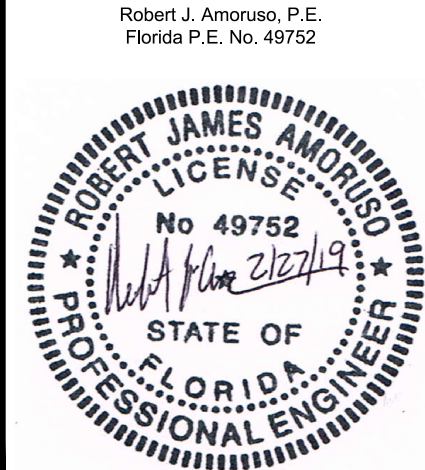
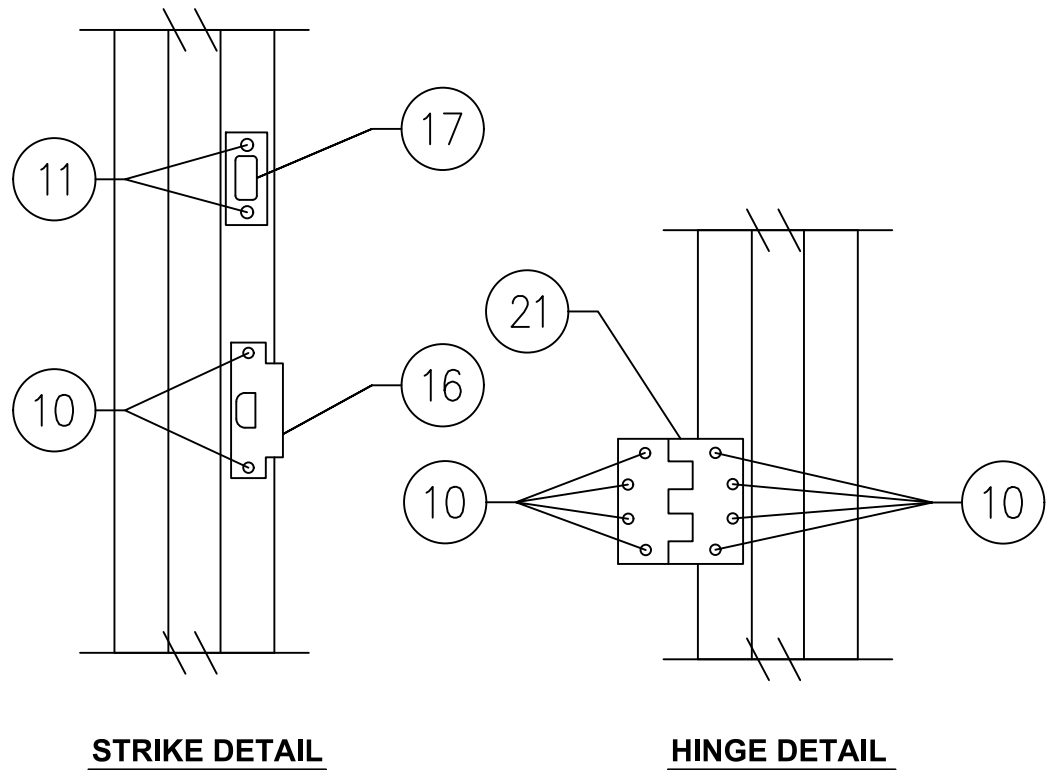
FRAME ANCHORING
MASONRY CONSTRUCTION
MASONRY ANCHORS

CONCRETE ANCHOR NOTES:

1. CONCRETE SCREW LOCATIONS MAY BE ADJUSTED TO MAINTAIN A MINIMUM 1" EDGE DISTANCE TO MORTAR JOINTS. IF CONCRETE SCREW LOCATIONS NOTED AS "MAX. O.C." MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTAR JOINTS, ADDITIONAL CONCRETE SCREWS MAY BE REQUIRED TO ENSURE THE MAXIMUM ON CENTER DIMENSION IS NOT EXCEEDED.

2. CONCRETE ANCHOR TABLE:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	TAPCON (ITW BUILDEX) ULTRA CON CRETE FLEX (ELCO)	2-1/2"	1-1/4"
			TAPPER+ (POWERS)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR (ITW REDHEAD)	2-1/4"	1-1/2"



PROJECT # 416-0603

HMF EXPRESS
 2501 NORTHCHASE PARKWAY SE
 WILMINGTON, NC 28405

TITLE: SERIES HP STEEL DOOR W/WO SIDELIGHT & TRANSOM, IMPACT ANCHORING DETAILS - XO CONFIGURATION

PREPARED BY: DAS
 DATE: 2/27/19
 SCALE: N.T.S.
 DRAWING NO: HMF0003
 SHEET: 9 OF 13
 REV: -



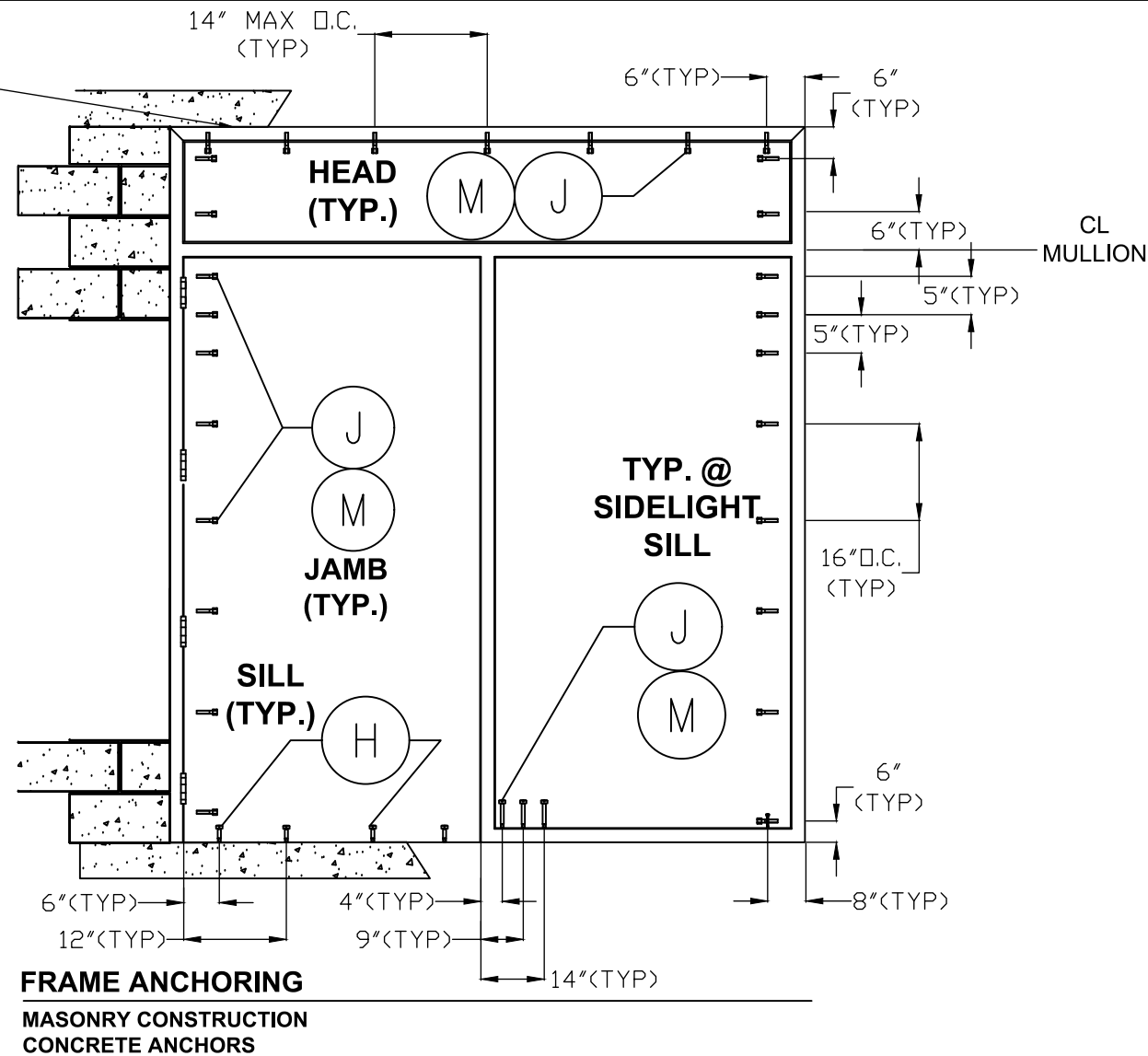
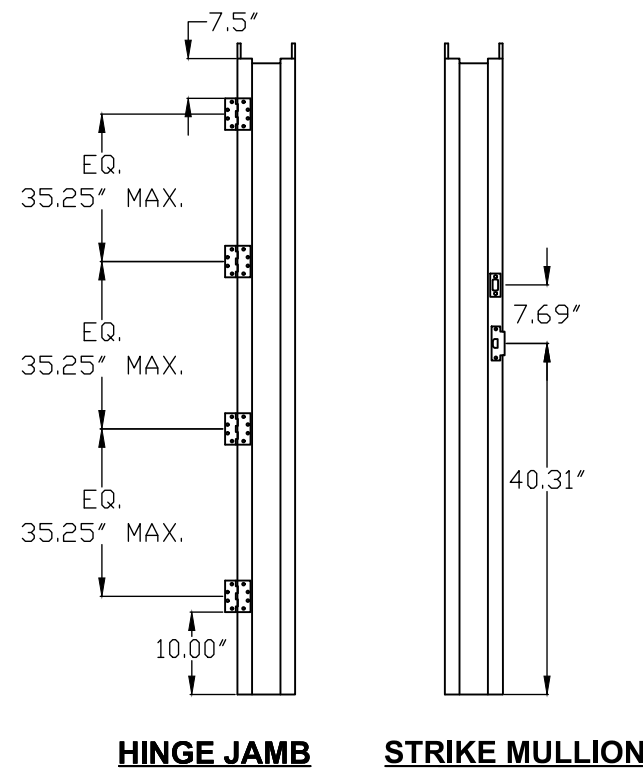
BY

DATE

DESCRIPTION

REV

NOTE: CONCRETE ANCHORS THROUGH THE HEAD JAMB ARE REQUIRED FOR THE 2" HEAD ONLY. THE 4" HEAD MUST BE TIED INTO THE CORNERS WITH REINFORCED CONCRETE INTO THE SUPPORTING HEADER

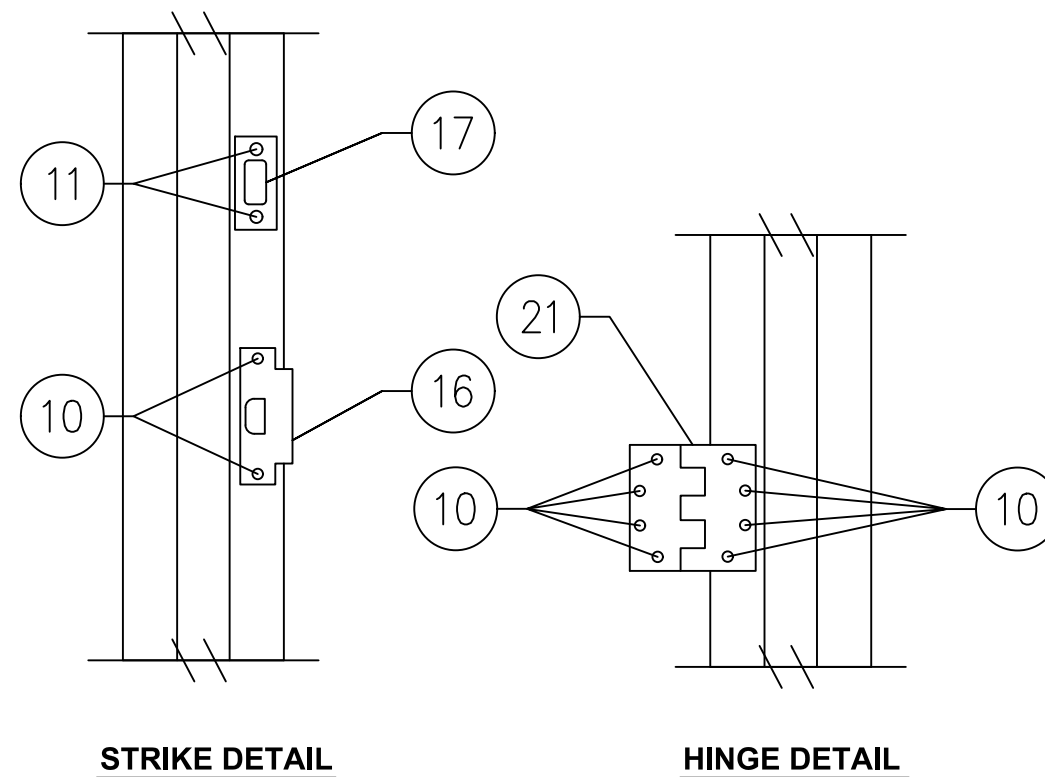


CONCRETE ANCHOR NOTES:

1. CONCRETE SCREW LOCATIONS MAY BE ADJUSTED TO MAINTAIN A MINIMUM 1" EDGE DISTANCE TO MORTAR JOINTS. IF CONCRETE SCREW LOCATIONS NOTED AS "MAX. O.C." MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTAR JOINTS, ADDITIONAL CONCRETE SCREWS MAY BE REQUIRED TO ENSURE THE MAXIMUM ON CENTER DIMENSION IS NOT EXCEEDED.

2. CONCRETE ANCHOR TABLE:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	TAPCON (ITW BUILDEX) ULTRA CON CRETE FLEX (ELCO)	2-1/2"	1-1/4"
			TAPPER+ (POWERS)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR (ITW REDHEAD)	2-1/4"	1-1/2"



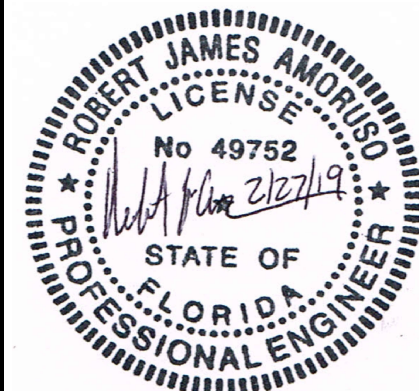
PROJECT # 416-0603

HMF EXPRESS
2501 NORTHCHASE PARKWAY SE
WILMINGTON, NC 28405

TITLE: SERIES HP STEEL DOOR W/WO SIDELIGHT & TRANSOM, IMPACT ANCHORING DETAILS - O/XO CONFIGURATION

DATE: 2/27/19
DRAWING NO: HMF0003
SHEET: 10 OF 13
DRAWN BY: DAS
SCALE: N.T.S.
REV: -

Robert J. Amoruso, P.E.
Florida P.E. No. 49752



Technical drawing showing a vertical assembly with dimensions. The drawing includes a side view on the left and a front view on the right.

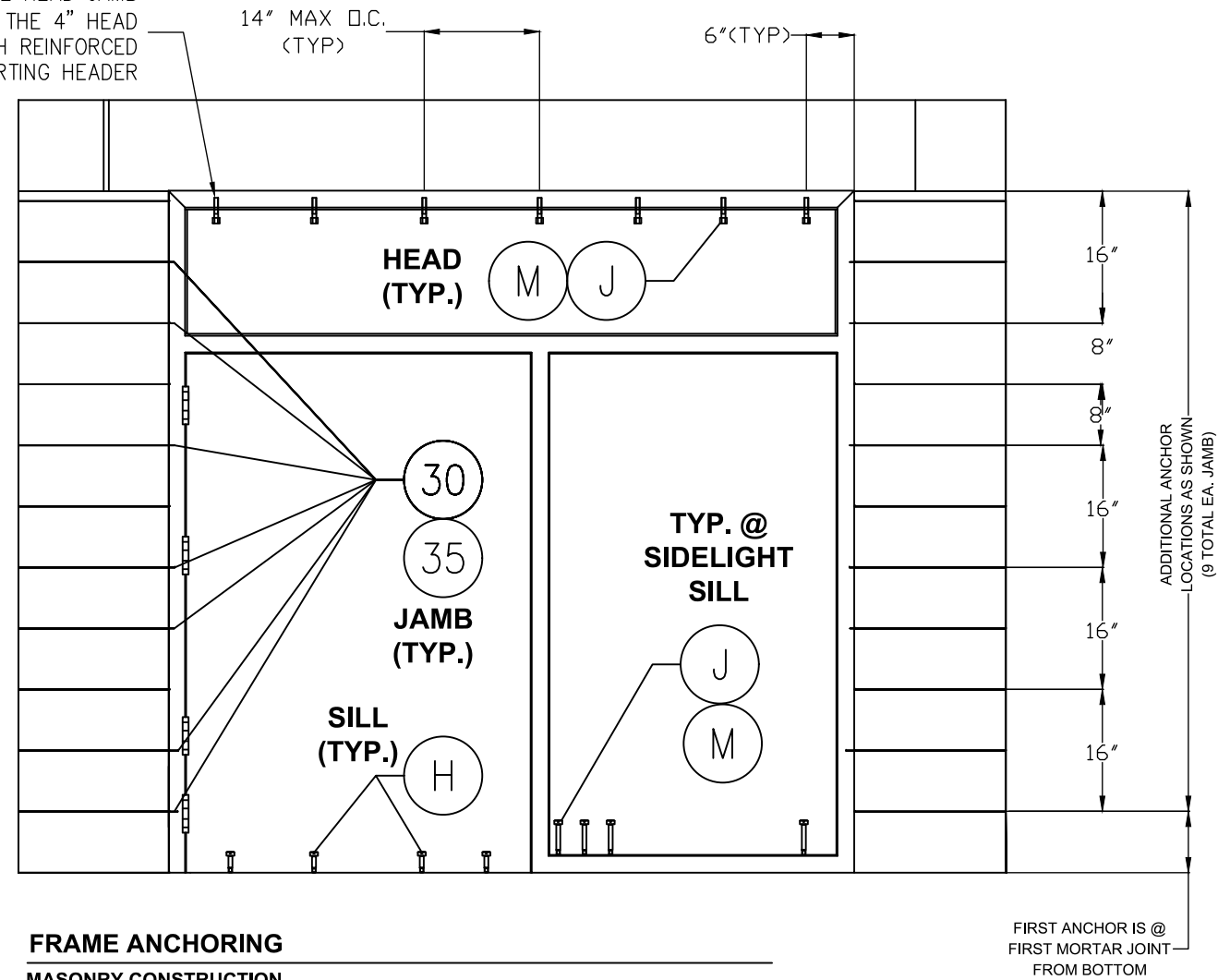
Side View (Left):

- Top dimension: 7.5"
- Four vertical segments, each labeled: EQ. 35.25" MAX.
- Bottom dimension: 10.00"

Front View (Right):

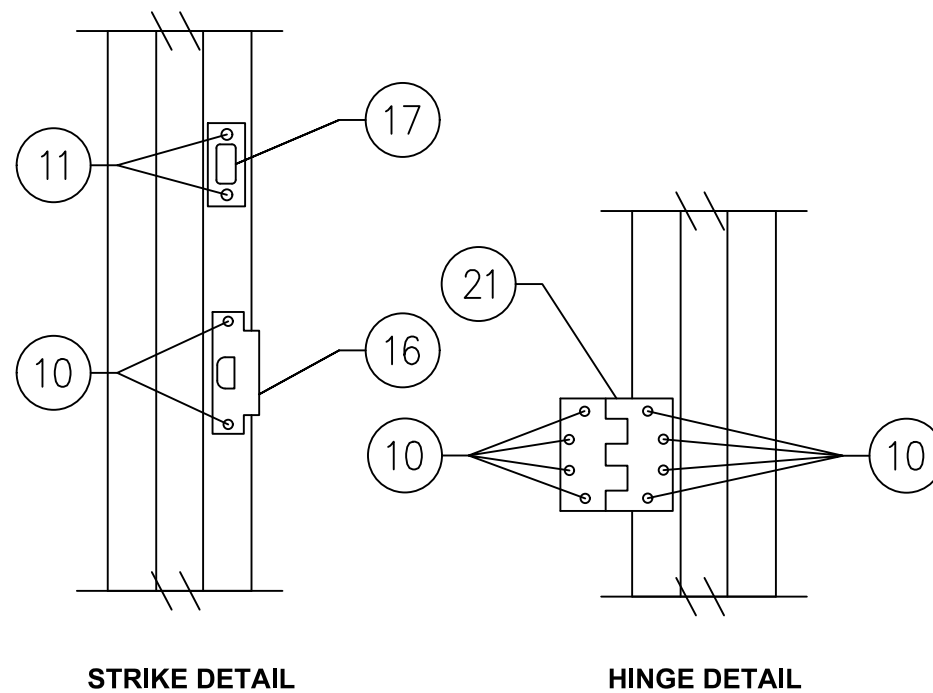
- Two vertical segments, each labeled: 7.69"
- Total height dimension: 40.31"

STRIKE MULLION

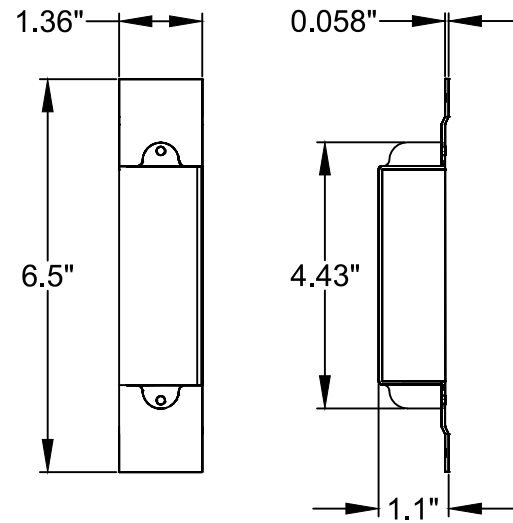


1. CONCRETE SCREW LOCATIONS MAY BE ADJUSTED TO MAINTAIN A MINIMUM 1" EDGE DISTANCE TO MORTAR JOINTS. IF CONCRETE SCREW LOCATIONS NOTED AS "MAX. O.C." MUST BE ADJUSTED TO MAINTAIN THE MINIMUM EDGE DISTANCE TO MORTAR JOINTS, ADDITIONAL CONCRETE SCREWS MAY BE REQUIRED TO ENSURE THE MAXIMUM ON CENTER DIMENSION IS NOT EXCEEDED.

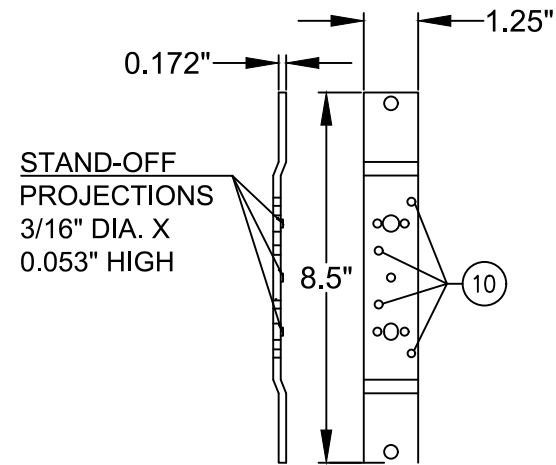
ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	TAPCON (ITW BUILDEX) ULTRA CON CRETE FLEX (ELCO)	2-1/2"	1-1/4"
			TAPPER+ (POWERS)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR (ITW REDHEAD)	2-1/4"	1-1/2"



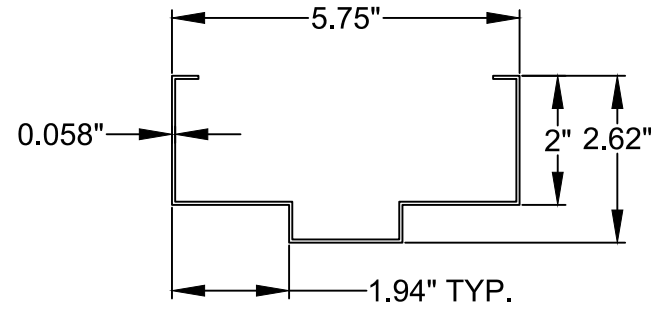
BY



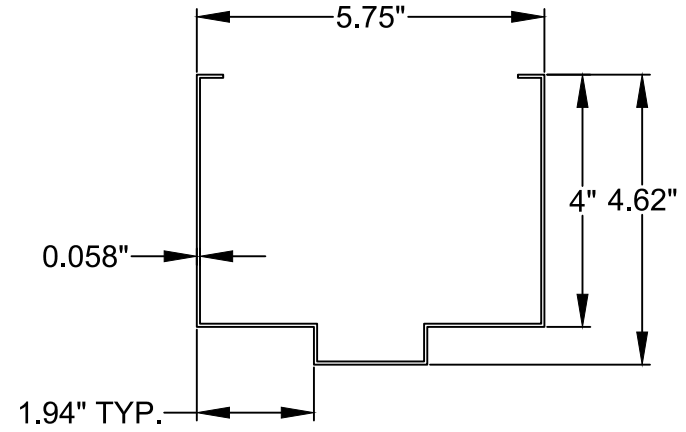
8 DUST BOX



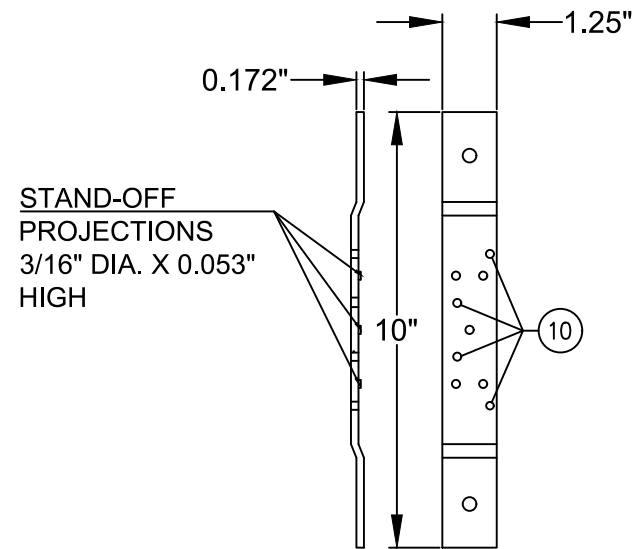
22 DOOR HINGE REINFORCEMENT
7 GAUGE STEEL



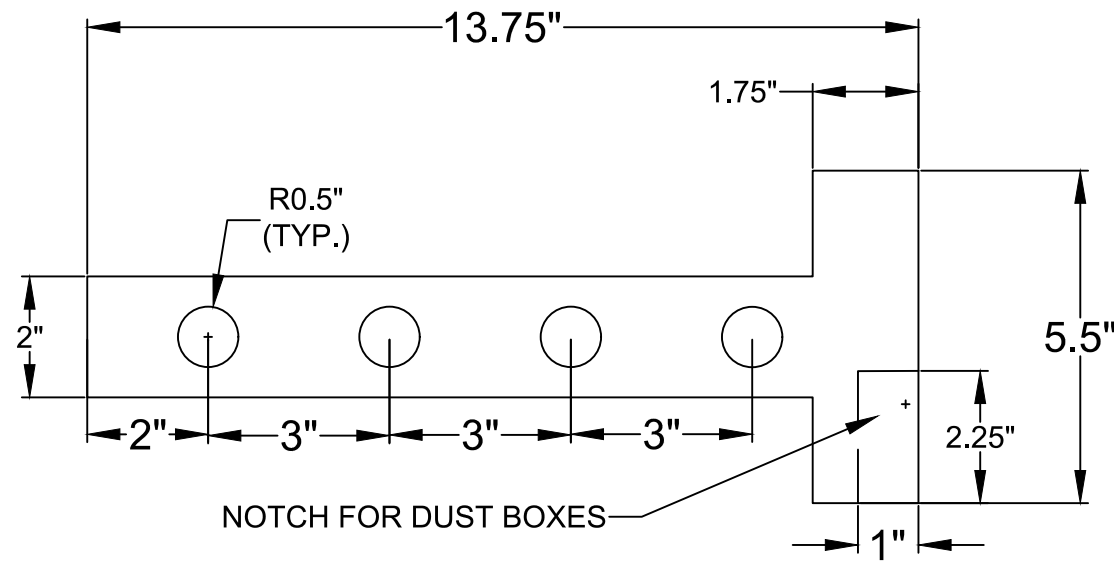
25 HOLLOW METAL FRAME
2" FACE JAMB



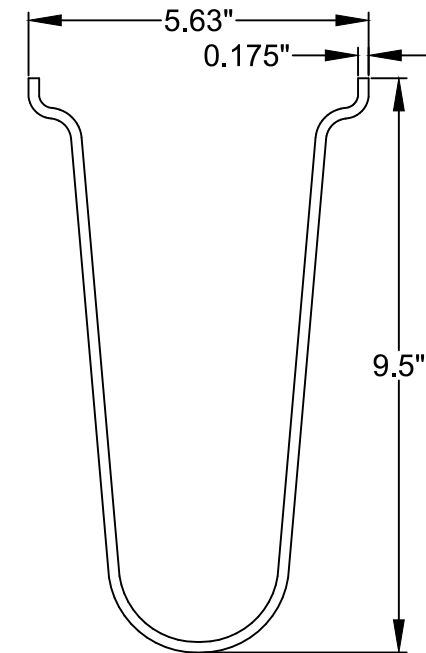
26 HOLLOW METAL FRAME
4" FACE JAMB



28 FRAME HINGE REINFORCEMENT
7 GAUGE STEEL



30 "T" ANCHOR
0.058" THICK STEEL



35 WIRE ANCHOR

PROJECT # 416-0603

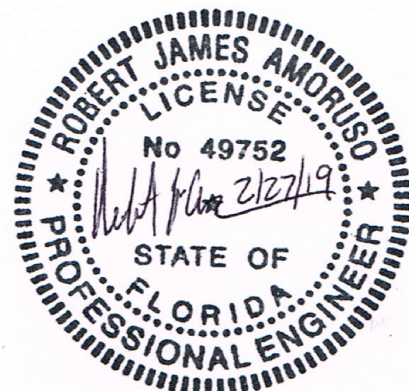
HMF EXPRESS
2501 NORTHCHASE PARKWAY SE
WILMINGTON, NC 28405
TITLE: SERIES HP STEEL DOOR W/WO SIDELIGHT & TRANSOM, IMPACT COMPONENTS

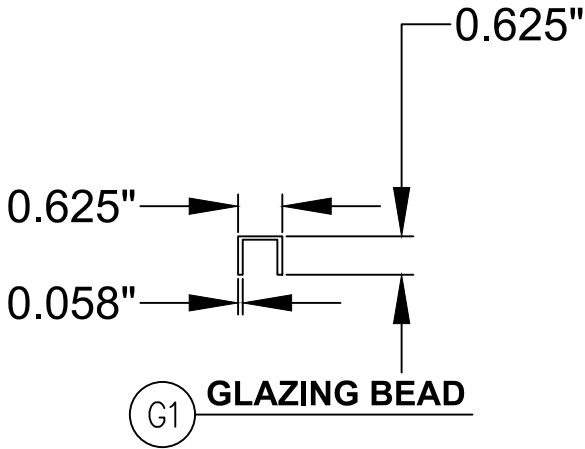
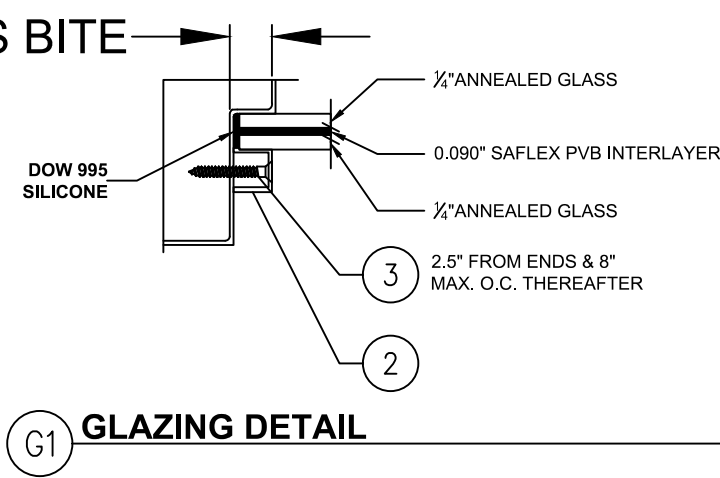
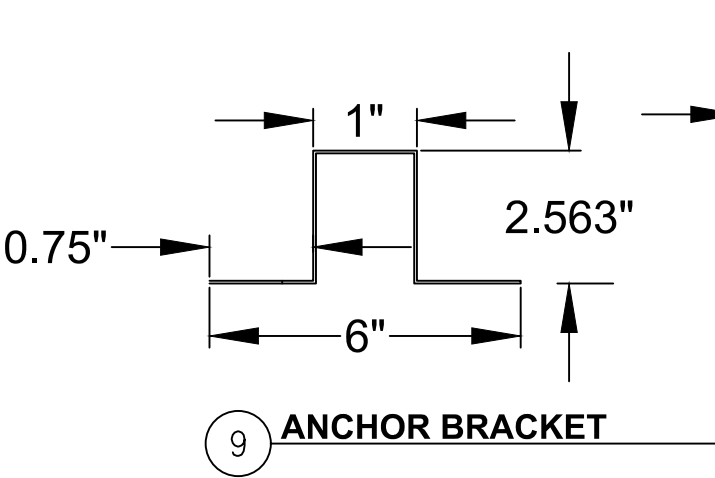
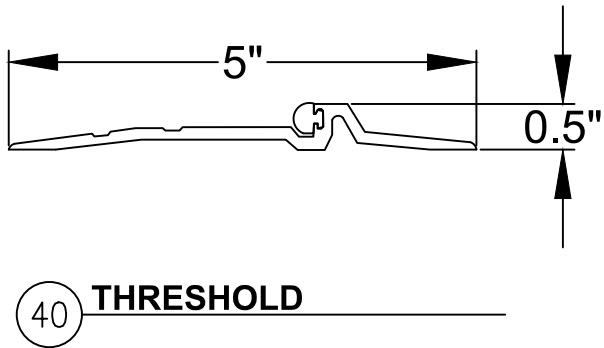
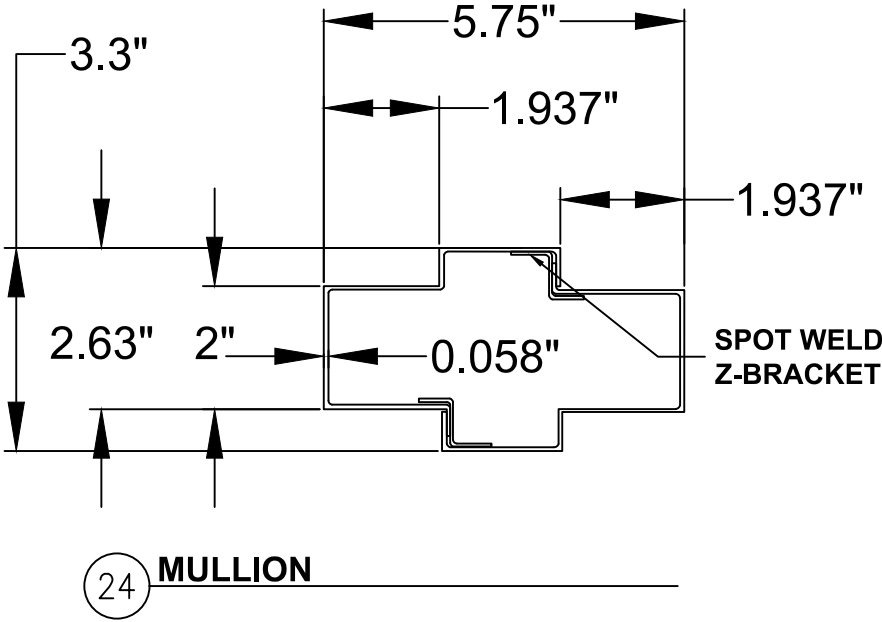
DATE: 2/27/19
DRAWING NO: HMF0003
SHEET: 12 OF 13
REV: -

PREPARED BY: DAS
SCALE: N.T.S.
REV: -

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775
LONGWOOD, FLORIDA 32752
Phone: 321.690.1788
Fax: 321.690.1789
Email: info@ptc-corp.com

Robert J. Amoruso, P.E.
Florida P.E. No. 49752





BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERAILS
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2 3/4" ELCO OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 2,500 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
H	1/4" DIA, PFH CONCRETE SCREW (SEE ANCHOR TABLE ON SHEETS 7 THRU 11)	STEEL
J	3/8" DIA, PFH DYNABOLT SLEEVE ANCHOR (SEE ANCHOR TABLE ON SHEETS 7 THRU 11)	STEEL
M	3/8" DIA, LDT TAPCON CONCRETE SCREW (SEE ANCHOR TABLE ON SHEETS 7 THRU 11)	STEEL
1	STEEL DOOR PANEL	-
2	GLAZING BEAD	STEEL
3	#6 X 1-1/4" PFH SELF-DRILLING TEK SCREW	STEEL
8	DUST BOX	STEEL
9	ANCHOR BRACKET	STEEL
10	#12-24 X 1/2" PFH MACHINE SCREW	STEEL
11	#8 X 3/4" COMBINATION WOOD/MACHINE SCREW	STEEL
16	ANSI LATCH STRIKE	STEEL
17	DEADBOLT STRIKE	STEEL
19	DEADBOLT STRIKE REINFORCEMENT	STEEL
20	WEATHERSTRIP (HAGER #720)	NEOPRENE
21	4 1/2" X 4 1/2" HINGE	STEEL
22	DOOR HINGE REINFORCEMENT	STEEL
24	MULLION - 16GA. (0.058"THK)	STEEL
25	HOLLOW FRAME (2" FACE JAMB)-16 GA. (0.058"THK)	STEEL
26	HOLLOW FRAME (4" FACE HEAD)-16 GA. (0.058"THK)	STEEL
28	FRAME HINGE REINFORCEMENT	STEEL
30	MASONARY "T" ANCHOR	STEEL
35	WIRE ANCHOR	STEEL
40	THRESHOLD (HAGER #520S)	ALUMINIUM

PROJECT # 416-0603

HMF EXPRESS
2501 NORTHCHASE PARKWAY SE
WILMINGTON, NC 28405

SERIES HP STEEL DOOR W/WO SIDELIGHT & TRANSOM, IMPACT
BILL OF MATERIALS, COMPONENTS & GLAZING DETAIL

PREPARED BY:
DRAWN BY: DAS
SCALE: N.T.S.
REV: -

DATE: 2/27/19
DRAWING NO: HMF0003
SHEET: 13 OF 13

PTC PRODUCT DESIGN GROUP, LLC
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PTC

Robert J. Amoruso, P.E.
Florida P.E. No. 49752

ROBERT JAMES AMORUSO
LICENSE
No 49752
STATE OF FLORIDA
PROFESSIONAL ENGINEER

2/27/19