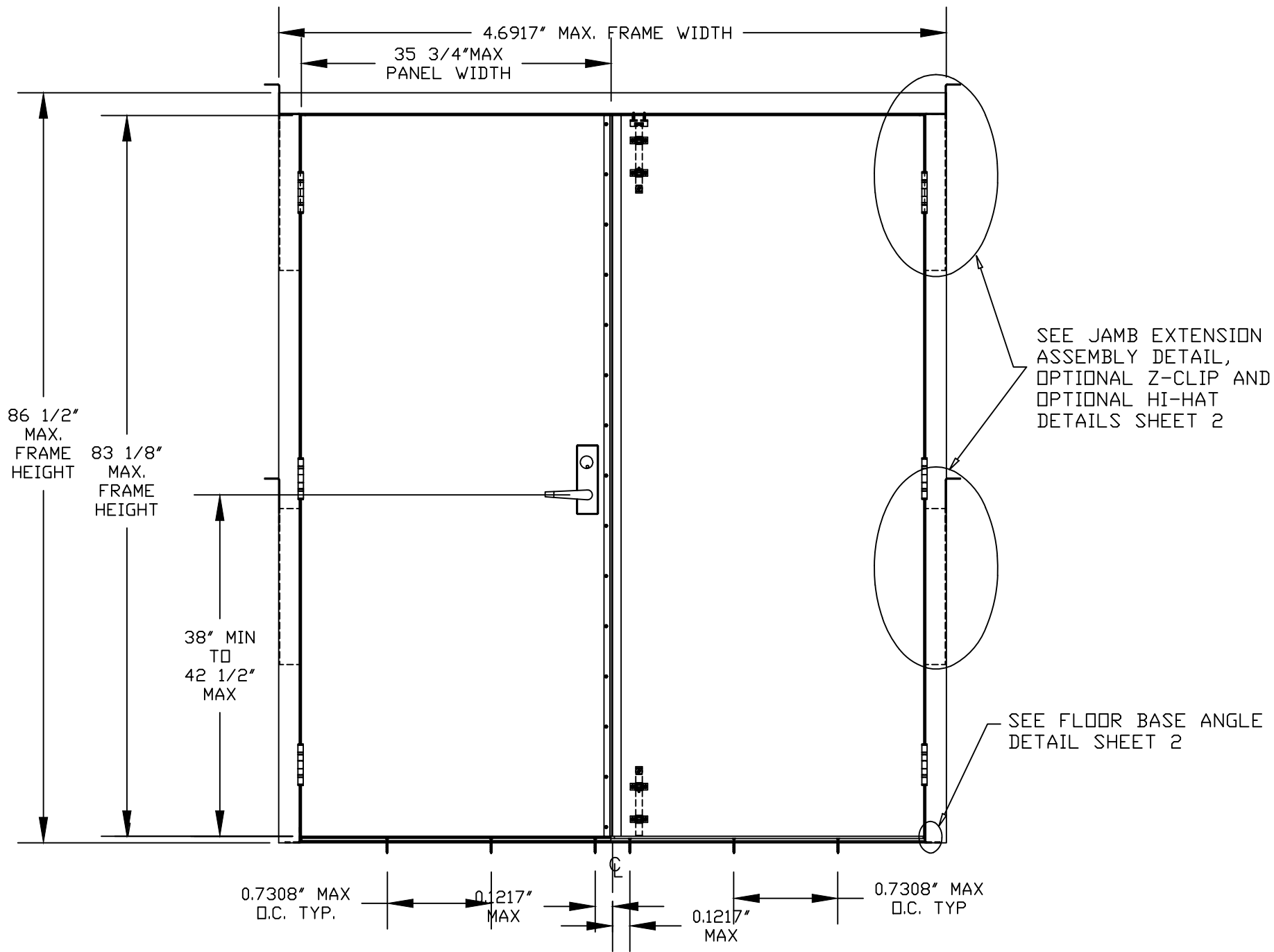




- NOTES:
- 1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
 - 2) STEEL FRAMING AND CONCRETE OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND CONCRETE OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
 - 3) BUILDING GIRT AND OPTIONAL INTERMEDIATE BUILDING GIRT TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. BUILDING GIRT AND OPTIONAL INTERMEDIATE GIRT ARE THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
 - 4) ALLOWABLE STRESS INCREASE OF 1 / 3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
 - 5) FRAME MATERIAL: FORMED 16GA. (.053" MIN.) GALVANNEALED STEEL.
 - 6) DOOR PANEL MATERIAL: FORMED 18GA. (.044" MIN.) GALVANNEALED STEEL.
 - 7) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
 - 8) EACH PANEL IS FITTED WITH THREE HINGES LOCATED AT 6" MINIMUM UPTO 10" MAXIMUM FROM EACH END WITH ONE AT PANEL MIDSPAN.

HARDWARE SCHEDULE	
A.	ML 1300 MORTISE LOCK BY TELL MANUFACTURING, INC.
B.	STEEL SURFACE BOLTS 988Y BY YALE SECURITY, INC.
C.	STEEL ASTRAGAL .140" THICK BY TELL DOORS & WINDOWS, LLC
D.	STEEL HINGES H4545 BY TELL MANUFACTURING, INC.
E.	ALUMINUM THRESHOLD 1/2" HIGH BY HOUSTON NON-FERROUS

TABLE OF CONTENTS	
SHEET NO	DESCRIPTION
1	ELEVATION, ANCHORING LAYOUT AND NOTES
2	DETAILS AND NOTES
3	BILL OF MATERIALS AND CROSS SECTION
4	CROSS SECTION
5 - 6	INSTALLATION DETAILS
7 - 8	COMPONENTS

DESIGN PRESSURE RATING	IMPACT RATING
± 50PSF	LARGE AND SMALL MISSILE IMPACT
THIS SYSTEM WAS NOT TESTED FOR WATER INFILTRATION AND IS TO BE INSTALLED ONLY WHERE THE WATER REQUIREMENT IS NOT NEEDED.	

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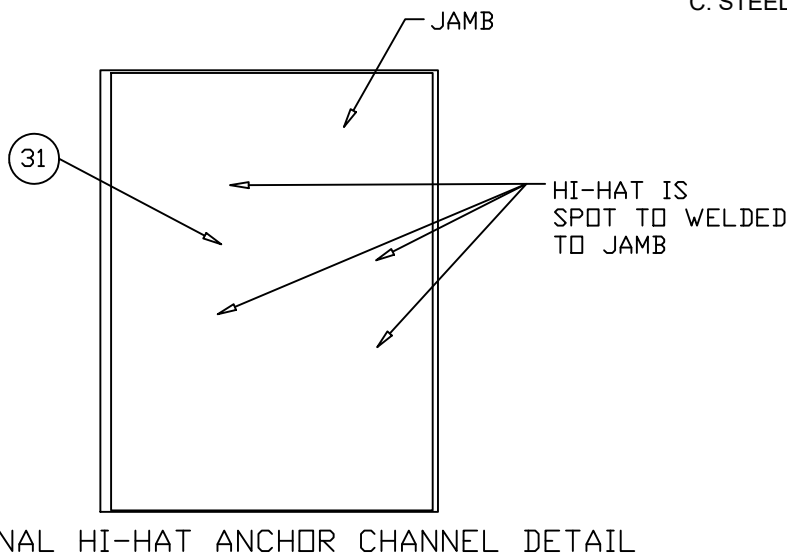
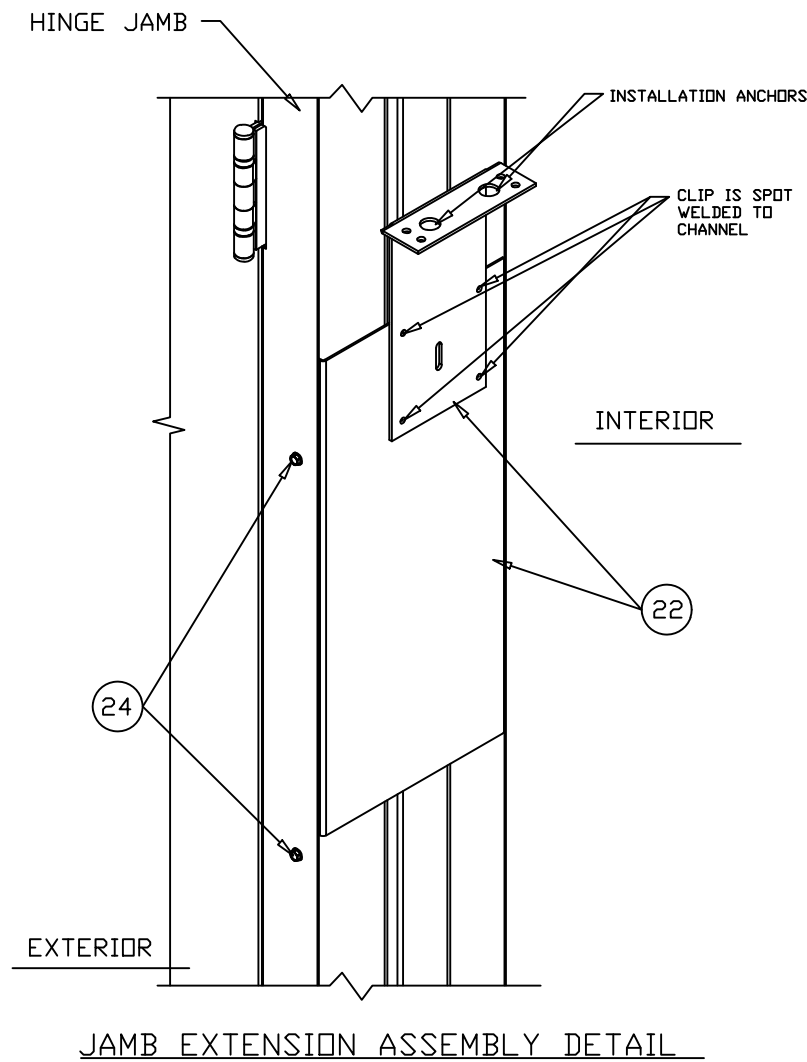
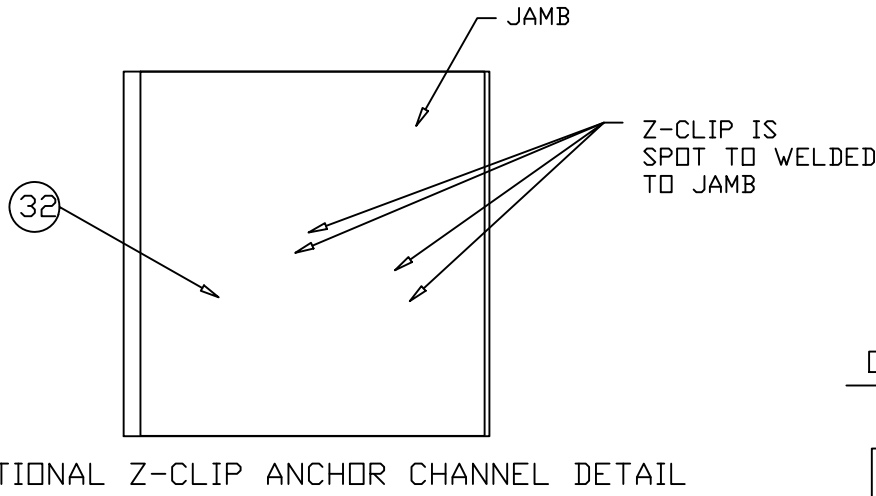
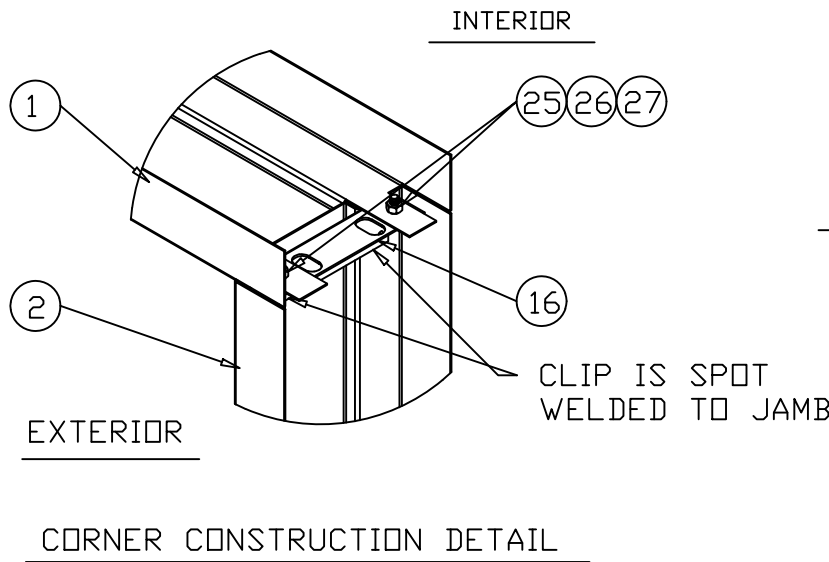
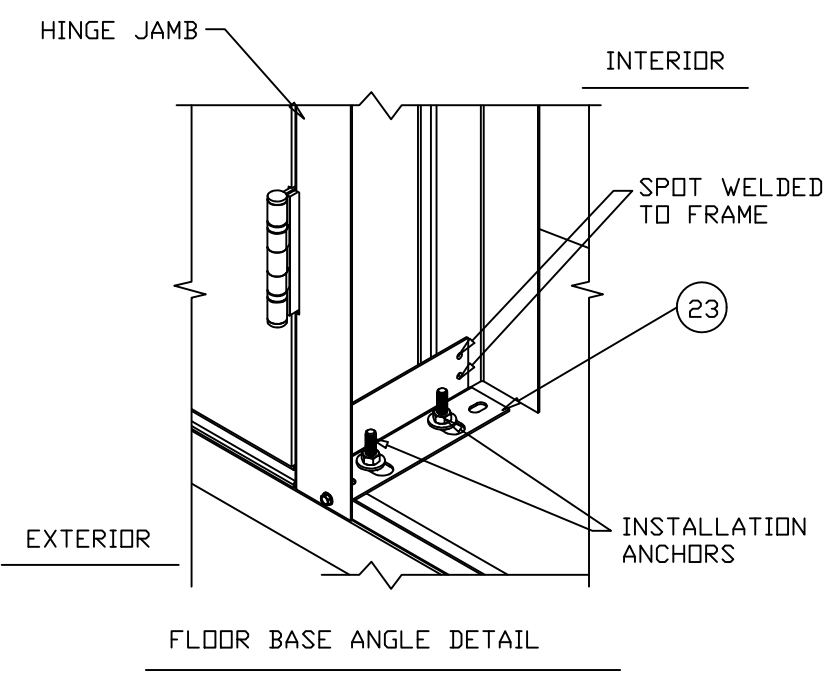
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PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775 | LONGWOOD, FLORIDA 32752
FBPE C.A. NO. 25935
Phone: 321.690.1788 | Email: info@ptc-corp.com

DRAFTER	DATE	TELL DOORS & WINDOWS, LLC. 2505 WEST 11TH STREET, HOUSTON, TEXAS 77008	
CHECKED	DATE		
ENGINEER	DATE		
APPROVED	DATE	TITLE	
THIRD ANGLE PROJECTION		TIOGA DOORWAY SYSTEM TDS-D-KD-WS OS STEEL DOUBLE DOOR - IMPACT ELEVATION, ANCHORING LAYOUT AND NOTES	
R.J.A. 3/20/17		SIZE B	DWG NO 08-01018
		RELEASE STATE	FINAL
SCALE NTS		REV B	
		SHEET 1 OF 8	



- NOTES:
- 1) FOR ANCHORING JAMB EXTENSION ASSEMBLY TO 16GA. (.060" MIN.) STEEL FRAMING USE 5/16"-18 BOLT WITH 5/16"-18 NUT AND 5/16" WASHER. BOLT TO BE OF SUFFICIENT LENGTH TO ACHIEVE 3-THREADS MINIMUM BEYOND NUT. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 - 2) FOR ANCHORING OPTIONAL Z-CLIP AND HI-HAT ANCHOR CHANNELS TO 16GA. (.060" MIN.) STEEL FRAMING USE (2) 5/16" SELF TAPPING SCREWS OR (4) #12 TEK SCREWS, BOTH OF SUFFICIENT LENGTH TO ACHIEVE 3-THREADS MINIMUM BEYOND ANCHOR CHANNELS. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS. SEE NOTE SHEET 6.
 - 3) FOR ANCHORING FLOOR BASE ANGLE INTO CONCRETE USE:
 - 5/16" MINIMUM 90° L-BOLT SET IN CONCRETE WITH 5/16" NUT AND WASHER. BOLT TO BE OF SUFFICIENT LENGTH TO ACHIEVE 6" MINIMUM EMBEDMENT INTO CONCRETE AND 3-THREADS MINIMUM BEYOND NUT AND WASHER WITH 2 3/4" MINIMUM EDGE DISTANCE. 90° L-BOLT TO BE MINIMUM A36 STEEL.
 - 3/8" HILTI KWIK BOLT 3 OF SUFFICIENT LENGTH TO ACHIEVE 2 1/2" MINIMUM EMBEDMENT INTO CONCRETE WITH 4 1/2" MINIMUM EDGE DISTANCE
 - 3/8" WEDGE BOLT OF SUFFICIENT LENGTH TO ACHIEVE 2" MINIMUM EMBEDMENT INTO CONCRETE WITH 4 1/2" MINIMUM EDGE DISTANCE.
 - 5/16" ITW TAPCON OF SUFFICIENT LENGTH TO ACHIEVE 1 3/4" MINIMUM EMBEDMENT INTO CONCRETE WITH 3 3/16" MINIMUM EDGE DISTANCE. LOCATE ALL ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 - 4) FOR ANCHORING THRESHOLD INTO CONCRETE USE 3/16" ITW TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 - 5) FOR ANCHORING JAMB EXTENSION ASSEMBLY, FLOOR BASE ANGLE, OPTIONAL Z-CLIP ANCHOR CHANNEL OR OPTIONAL HI-HAT ANCHOR CHANNEL TO WOOD SUBSTRATE USE 5/16" LAG SCREW WITH MINIMUM EMBEDMENT OF 1-3/4", MINIMUM EDGE DISTANCE OF 1-1/4" AND MINIMUM SPACING OF 1-1/4". LOCATE ALL ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
 - 6) WASHERS SHALL BE USED WHEN ANCHORS ARE INSTALLED IN OVERSIZE HOLES (CLIP HOLE DIAMETER 1/16" GREATER DIAMETER THAN ANCHOR DIAMETER).
 - 7) MINIMUM 2 ANCHORS PER JAMB EXTENSION ASSEMBLY, FLOOR BASE ANGLE, OPTIONAL Z-CLIP ANCHOR CHANNEL OR OPTIONAL HI-HAT ANCHOR CHANNEL FOR ATTACHMENT TO SUPPORTING SUBSTRATE.
 - 8) ALL FASTENERS TO BE CORROSION RESISTANT.
 - 9) 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 BELOW:
 - A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42 (NON-HVHZ) AND G=0.55 (HVHZ).
 - B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - C. STEEL FRAMING, 16GA. (.060" MIN.)

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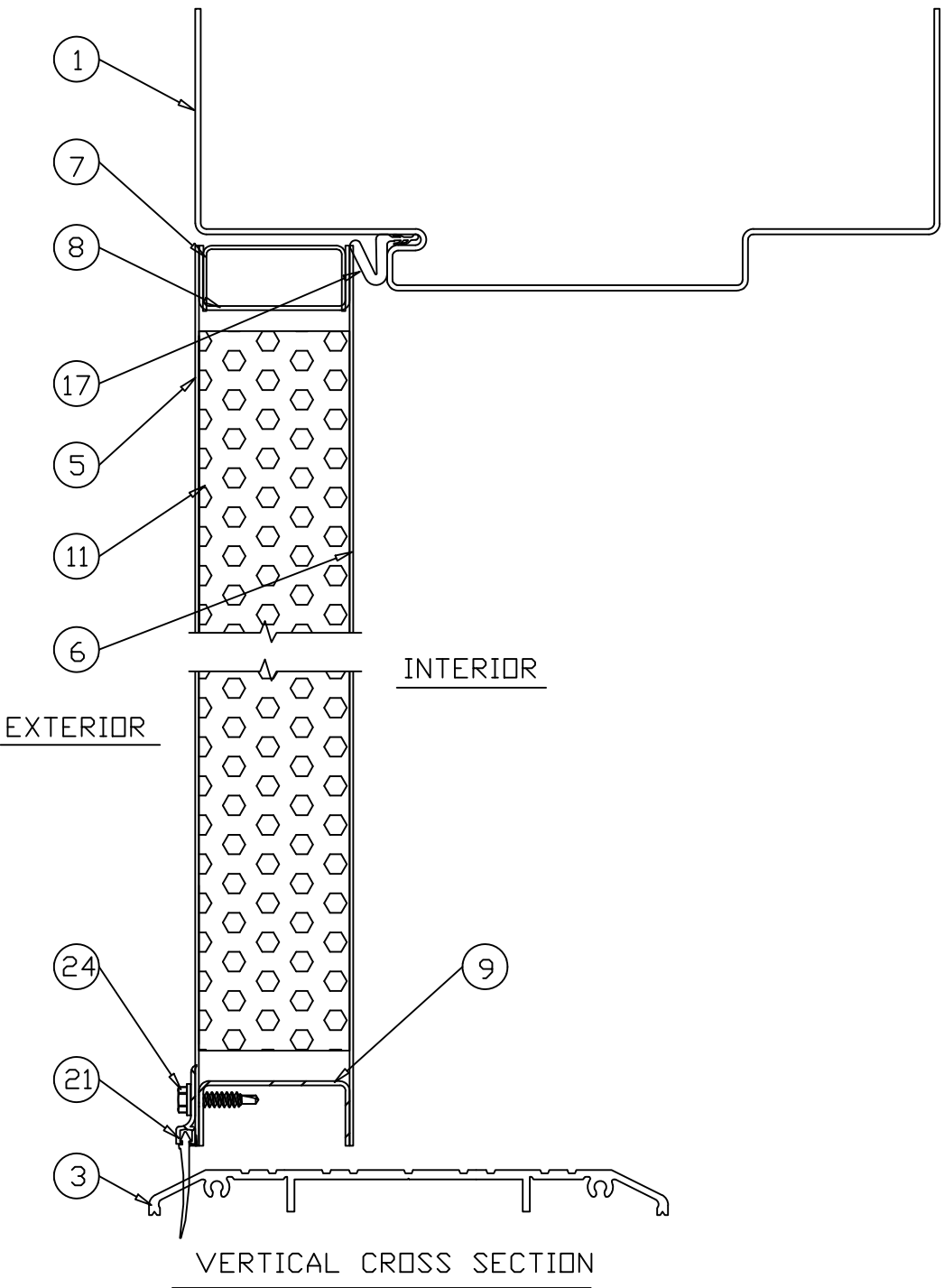
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CHECKED	DATE	TITLE TIOGA DOORWAY SYSTEM TDS-D-KD-WS QS STEEL DOUBLE DOOR - IMPACT DETAILS AND NOTES			
ENGINEER	DATE				
APPROVED	DATE	SIZE B	DWG NO 08-01018	REV B	LITER
THIRD ANGLE PROJECTION		RELEASE STATE FINAL		SHEET 2 OF 8	

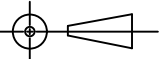
PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	T-1.3.1	TIOGA KD HEAD JAMB 16GA.	TELL MANUFACT.	GALVANNEALED STEEL
2	T-1.2	TIOGA KD HINGE JAMB 16GA.	TELL MANUFACT.	GALVANNEALED STEEL
3	T-1.7	THESHOLD, 1/2" HIGH	HOUSTON NON-FER.	ALUMINUM 6063-T5
4	T-1.2.2	FRAME HINGE REINFORCEMENT 10GA.	DAYTON INDUSTRIES	GALVANNEALED STEEL
5	T-1.1.1	TIOGA BOTTOM DOOR SKIN 18GA.	TELL MANUFACT.	GALVANNEALED STEEL
6	T-1.1.2	TIOGA TOP DOOR SKIN 18GA.	TELL MANUFACT.	GALVANNEALED STEEL
7	T-1.1.3	TOP CAP DOOR CHANNEL 20GA.	TELL MANUFACT.	GALVANNEALED STEEL
8	T-1.1.4	TOP DOOR CHANNEL 16GA.	TELL MANUFACT.	GALVANNEALED STEEL
9	T-1.1.5	BOTTOM DOOR CHANNEL 16GA.	TELL MANUFACT.	GALVANNEALED STEEL
10	T-1.1.6	DOOR HINGE REINFORCEMENT 10GA.	DAYTON INDUSTRIES	GALVANNEALED STEEL
11	T-1.1.7	DOOR FOAM CORE 1 LB/FT ³ DENSITY		POLYISYRENE
12	T-1.1.8	DOOR CLOSER REINFORCEMENT 12GA.	TELL MANUFACT.	GALVANNEALED STEEL
13	T-1.1.10	MORTISE LOCK REINFORCEMENT 14GA.	TELL MANUFACT.	GALVANNEALED STEEL
14	T-1.1.11	OVERLAP STRIP ASTRAGAL 11 GA.	TELL MANUFACT.	GALVANNEALED STEEL
15	T-1.1.12	INACTIVE DOOR EDGE CHANNEL 16GA.	TELL MANUFACT.	GALVANNEALED STEEL
16	T-1.2.3	HINGE JAMB CLIP 12GA	TELL MANUFACT.	GALVANNEALED STEEL
17	T-1.2.4	FRAME WEATHERSTRIPPING		FOAM
18	T-1.5	HINGES - H4545 SERIES	TELL MANUFACT.	STEEL
19	T-1.68	MORTISE LOCK ML 1300	TELL MANUFACT.	STEEL
20	988Y	SURFACE BOLT	YALE SECURITY	STEEL
21	T-1.8	DOOR SWEEP, DT100101	TELL MANUFACT.	ALUMINUM 6063-T5
22	T-2	JAMB EXTENSION ASSEMBLY 16 / 12GA	TELL MANUFACT.	GALVANNEALED STEEL
23		FLOOR BASE ANGLE		GALVANNEALED STEEL
24	S1	#12-24 X 1 1/4" HEX HEAD TEK		STEEL
25	B1	5/16"-18 X 3/4" HEX CAP SCREW		STEEL
26	N1	HEX NUT 5/16"		STEEL
27	W1	FLAT WASHER 5/16"		STEEL
28	S2	#8-32 X 1/2" PPH SMS		STEEL
29	S2	#14 X 1/2" PFH SMS		STEEL
30	S3	#10-24 X 1/2" UC PFH SMS		STEEL
31		HI HAT ANCHOR CHANNEL 16GA.	TELL MANUFACT.	GALVANNEALED STEEL
32		Z CLIP ANCHOR CHANNEL 16GA	TELL MANUFACT.	GALVANNEALED STEEL



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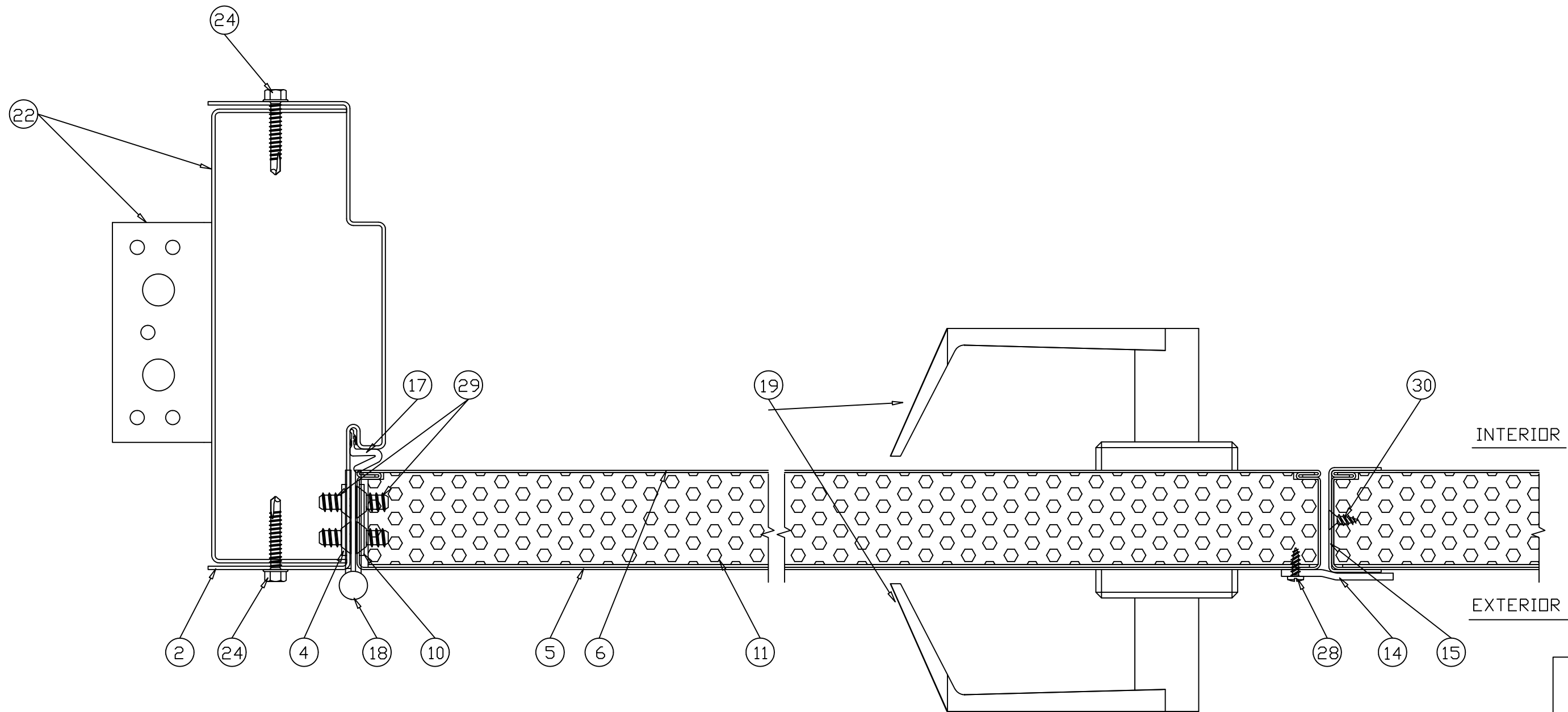
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ENGINEER	DATE					
TJH	06/03/10					
APPROVED	DATE	SIZE	DWG NO			
R.J.A.	3/20/17	B		08-01018		
THIRD ANGLE PROJECTION		RELEASE STATE			REV	LITER
		FINAL			B	
		SCALE	NTS		SHEET	3 OF 8

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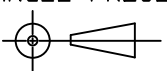
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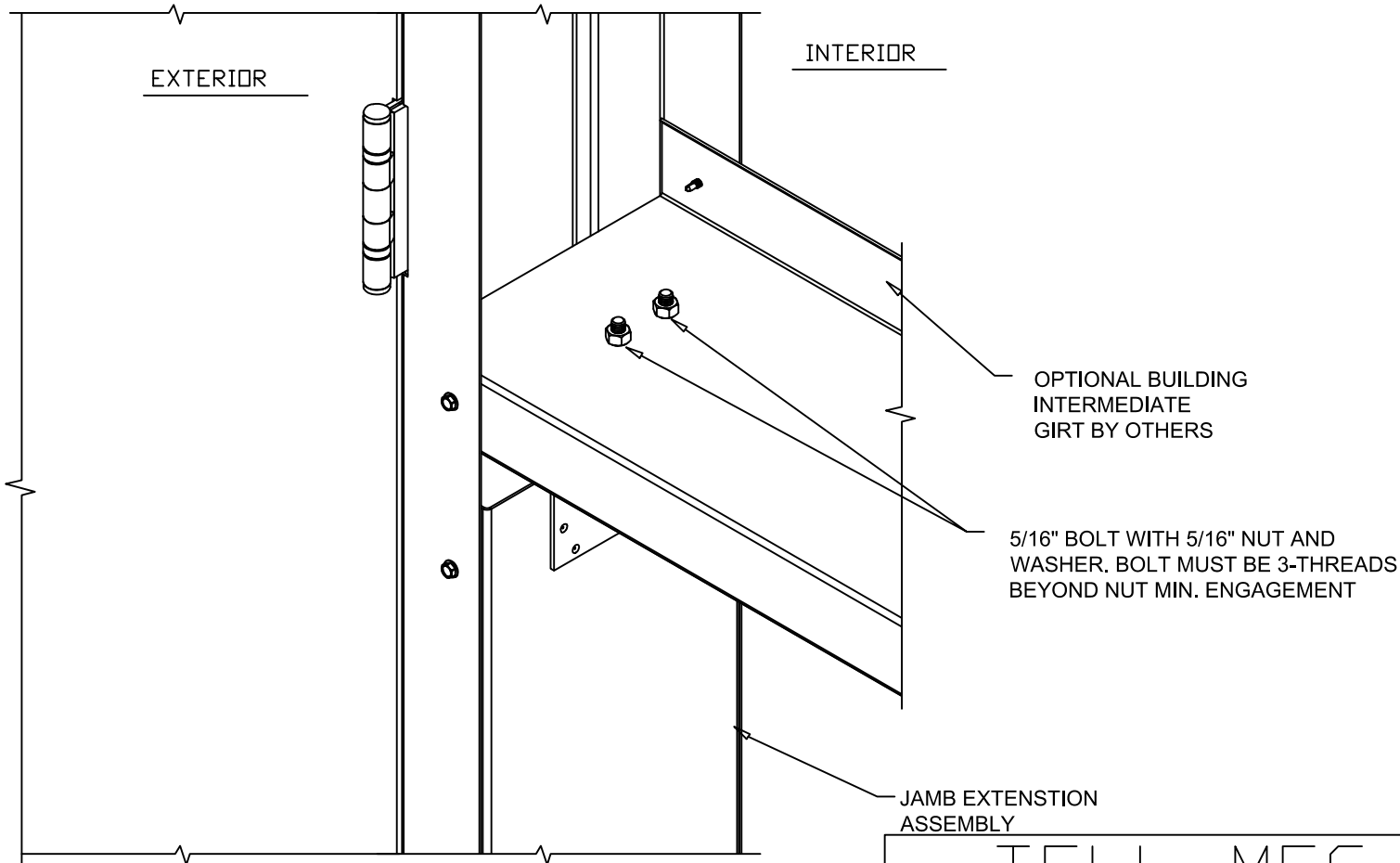
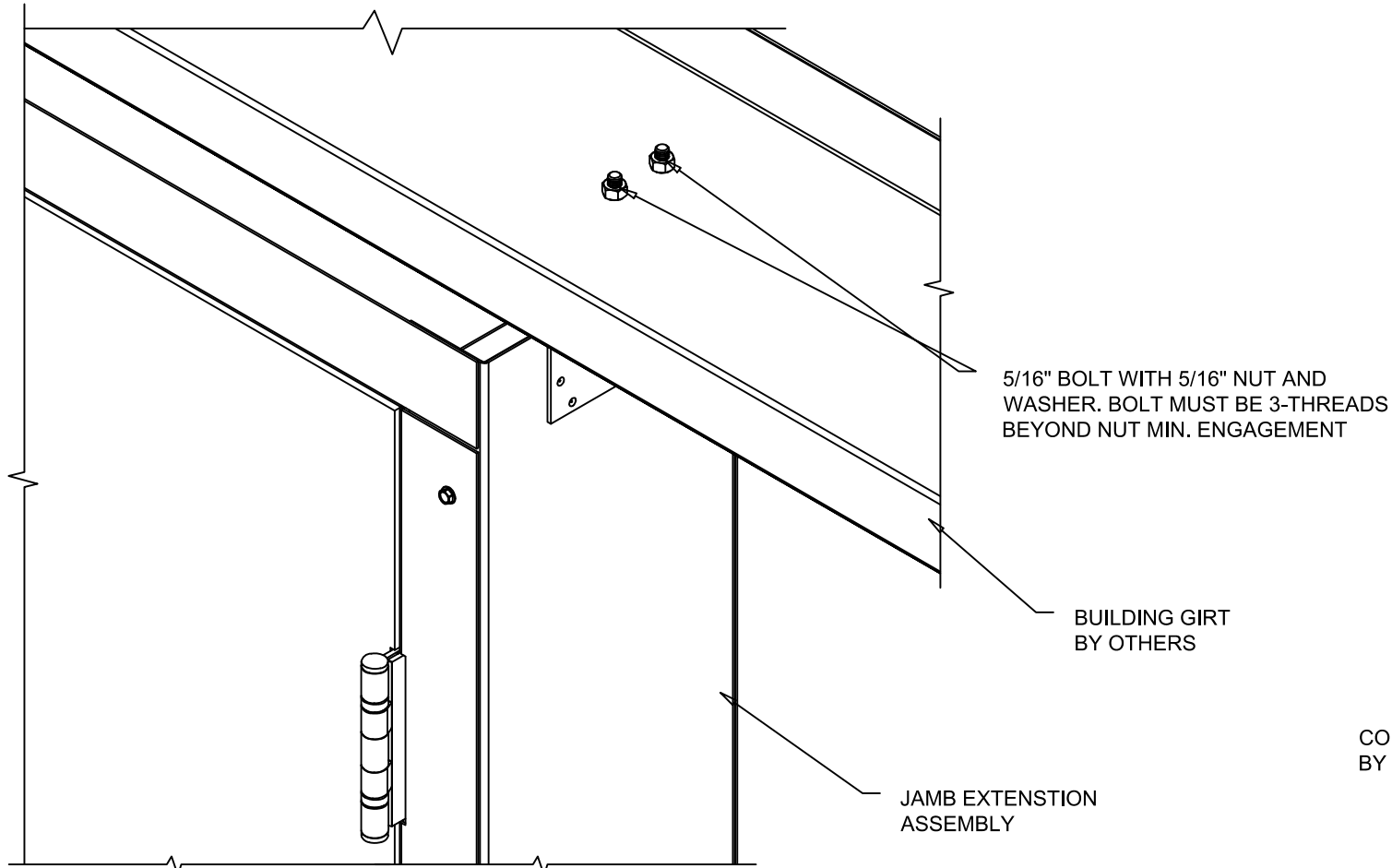
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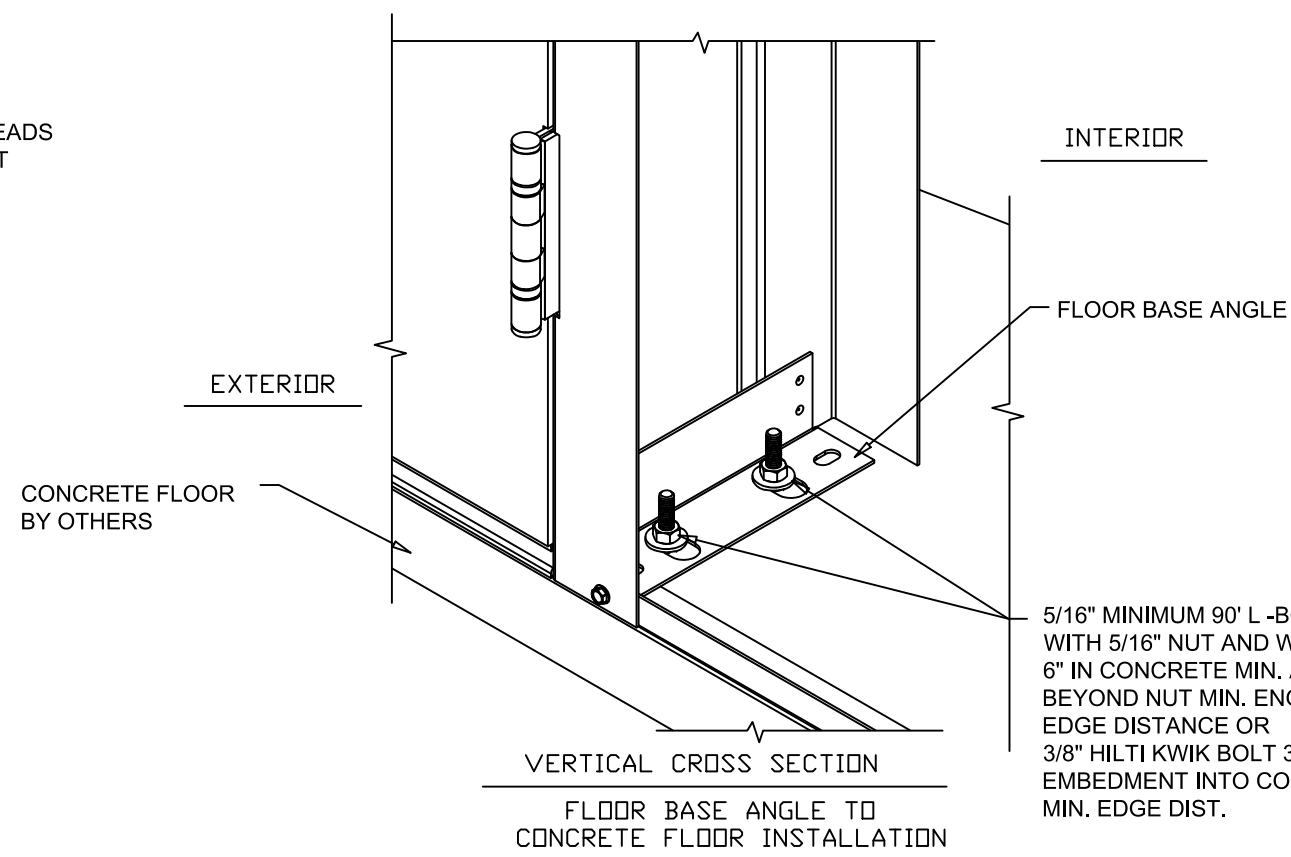
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APPROVED	DATE	B			
R.J.A.	3/20/17	RELEASE STATE			REV B
THIRD ANGLE PROJECTION		FINAL			LITER
		SCALE	NTS	SHEET	4 OF 8



VERTICAL CROSS SECTION
JAMB EXTENSION ASSEMBLY TO METAL BUILDING INSTALLATION



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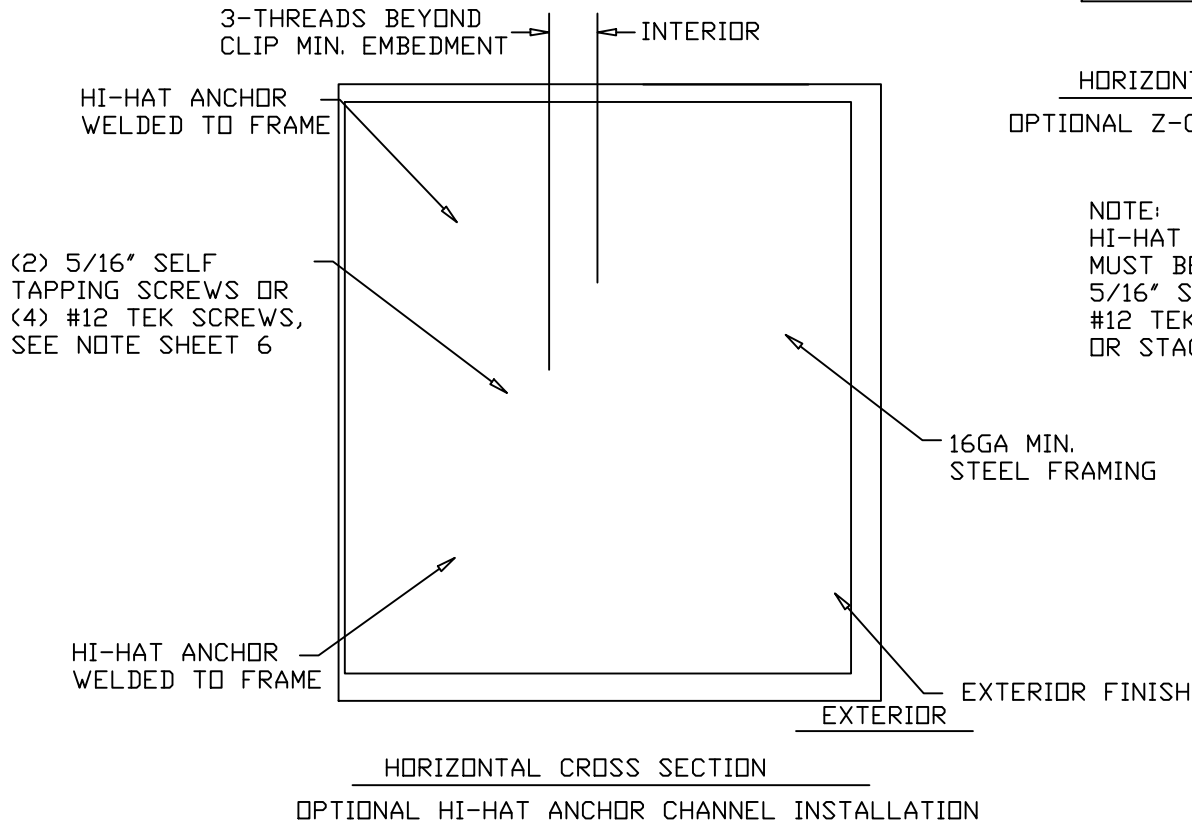
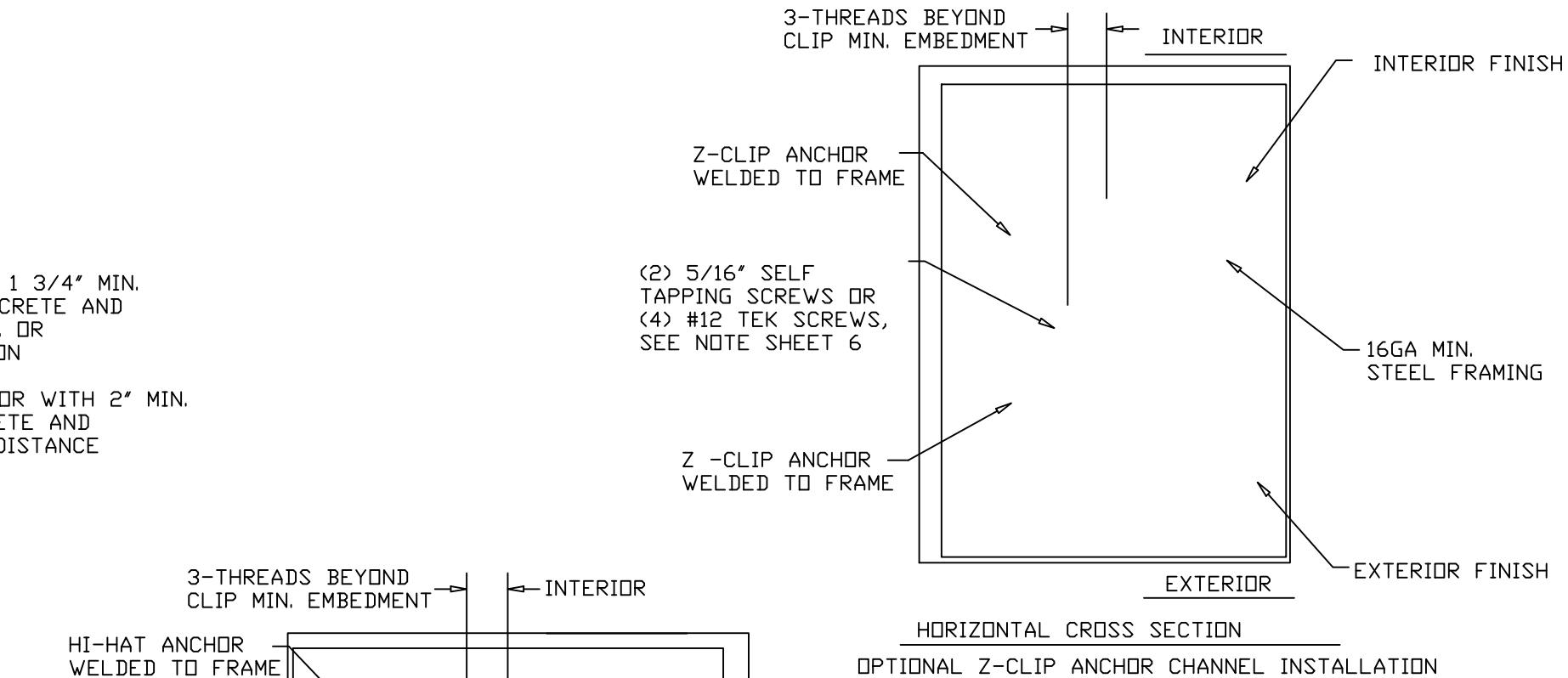
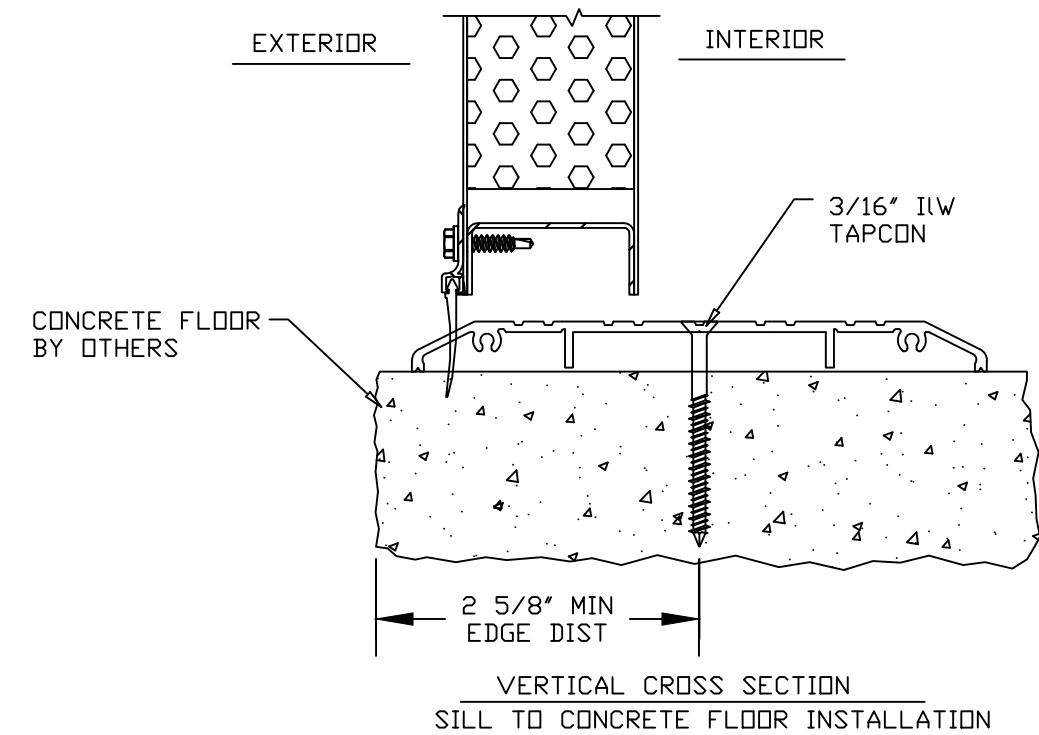
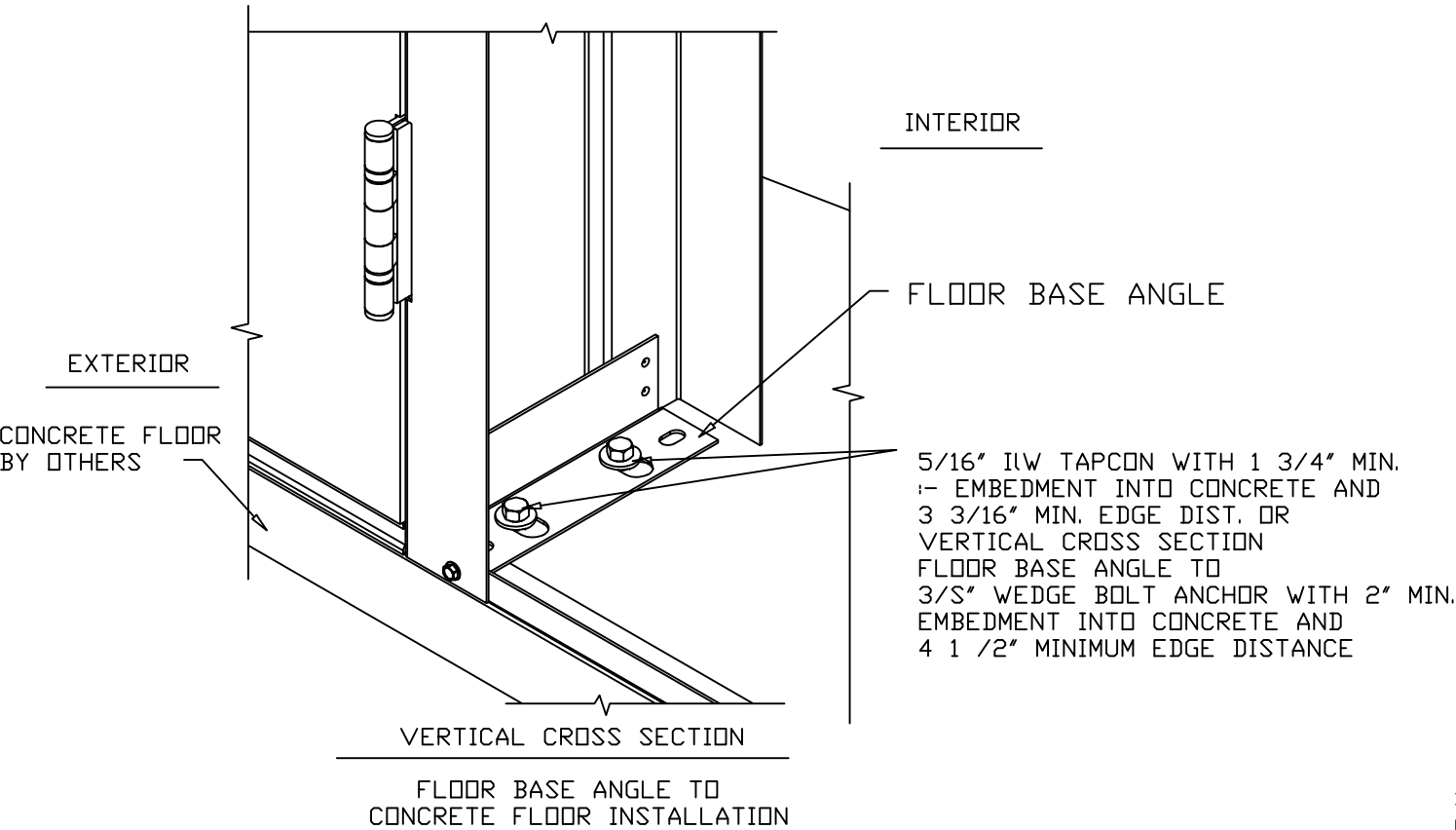
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APPROVED	DATE R.J.A. 3/20/17	RELEASE STATE FINAL			SHEET 5 OF 8
THIRD ANGLE PROJECTION 		SCALE NTS			

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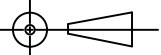
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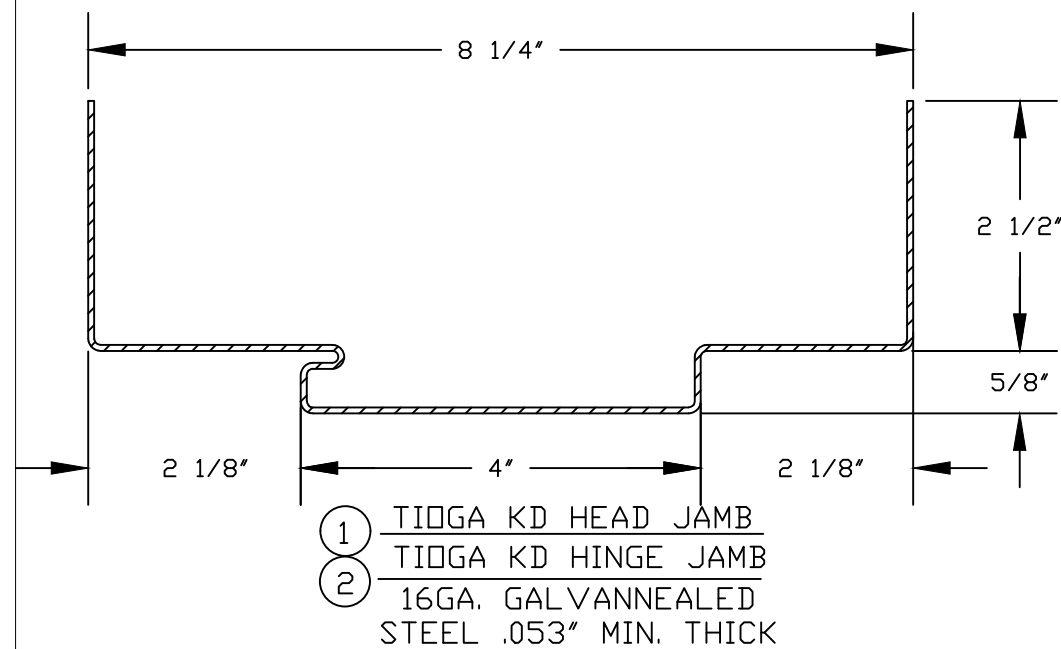
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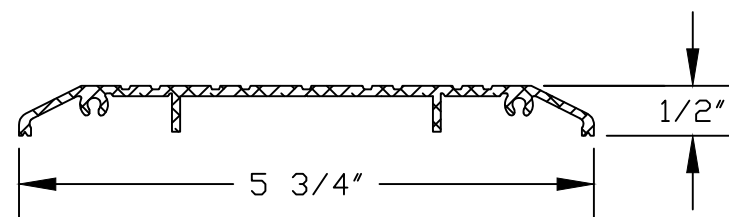
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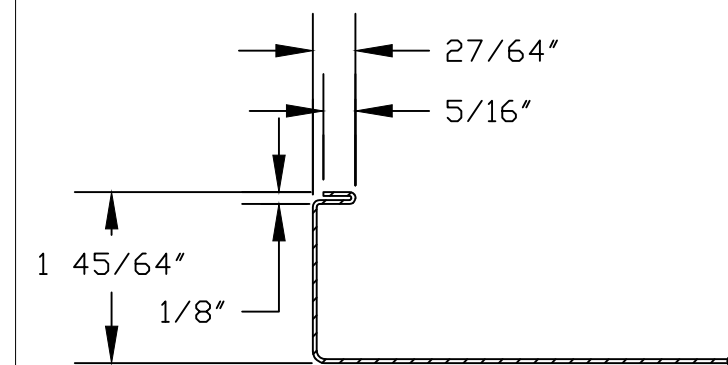
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	R.J.A. 3/20/17	FINAL			B
THIRD ANGLE PROJECTION		SCALE	SHEET		LITER
		NTS	6 OF 8		



- ① TIOGA KD HEAD JAMB
② TIOGA KD HINGE JAMB
16GA. GALVANNEALED
STEEL .053" MIN. THICK

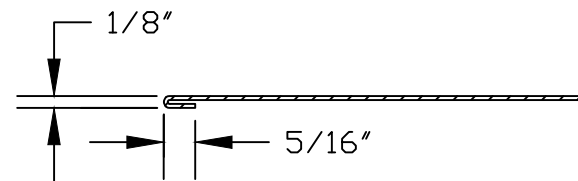


- ③ THRESHOLD 1/2" HIGH
ALUMINUM 6063-T5 .105" THICK

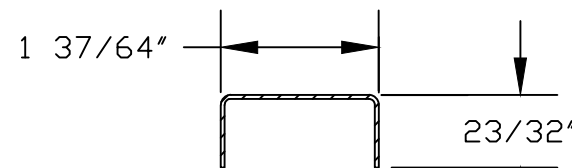


- ⑤ TIOGA BOTTOM DOOR SKIN

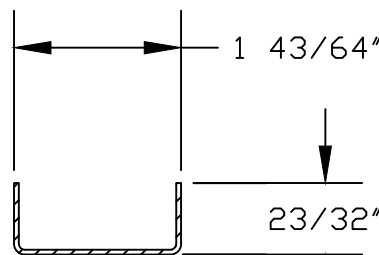
18GA GALVANNEALED STEEL .044" MIN. THICK
LEFT END SHOWN, RIGHT END IS SIMILAR



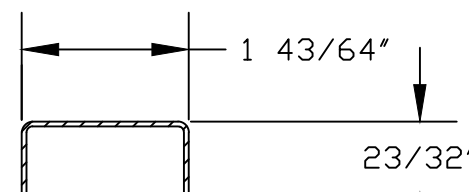
- ⑥ TIOGA TOP DOOR SKIN
18GA STEEL .044" MIN. THICK
LEFT END SHOWN, RIGHT END IS SIMILAR



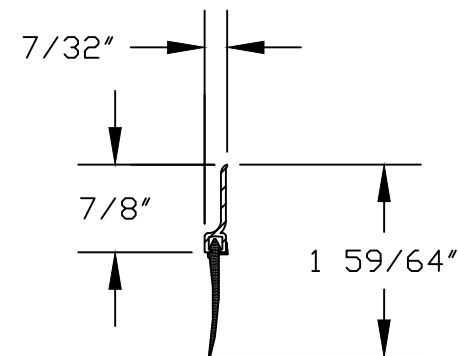
- ⑦ TOP CAP DOOR
CHANNEL
20GA GALVANNEALED
STEEL .036" MIN. THICK



- ⑧ TOP DOOR CHANNEL
16GA GALVANNEALED
STEEL .053" MIN. THICK

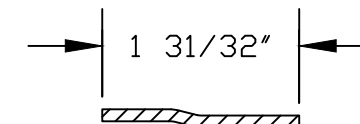


- ⑨ BOTTOM DOOR CHANNEL
16GA GALVANNEALED
STEEL .053" MIN. THICK

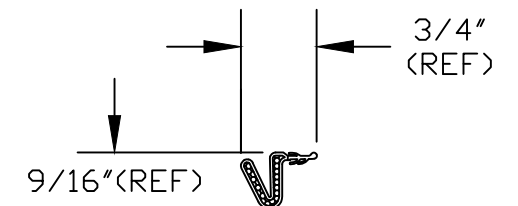


- ⑪ DOOR SWEEP

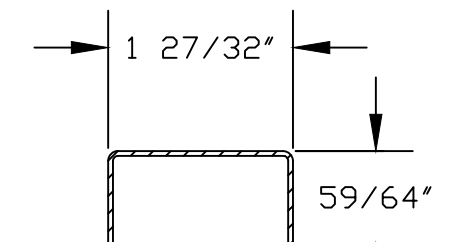
ALUMINUM 6063-T5.042" MIN. THICK
EPDM



- ⑭ OVERLAP STRIP
ASTRAGAL
11GA GALVANNEALED
STEEL .123" MIN. THICK



- ⑰ FRAME WEATHERSTRIPPING
FOAM



- ⑮ INACTIVE DOOR
EDGE CHANNEL
16GA GALVANNEALED
STEEL .053" MIN. THICK

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



Digitally signed
by Robert J
Amoruso
Date:
2017.04.07
13:07:55 -04'00'

PTC PRODUCT DESIGN GROUP, LLC
PO BOX 520775 | LONGWOOD, FLORIDA 32752
FBPE C.A. NO. 25935
Phone: 321.690.1788 | Email: info@ptc-corp.com

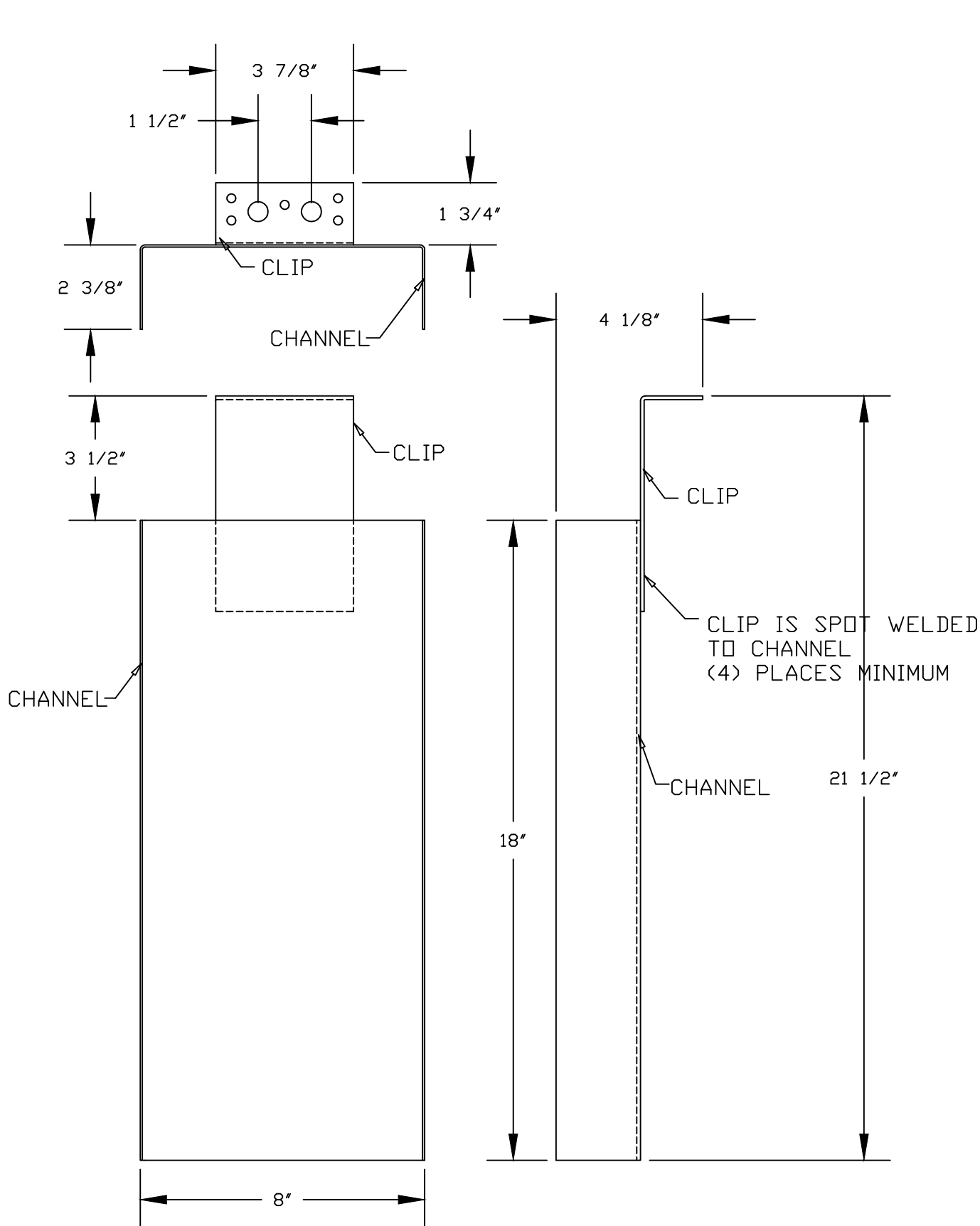
DRAFTER	DATE	TELL DOORS & WINDOWS, LLC. 2505 WEST 11TH STREET, HOUSTON, TEXAS 77008			
CHECKED	DATE	TITLE TIOGA DOORWAY SYSTEM TDS-D-KD-WS OS STEEL DOUBLE DOOR - IMPACT COMPONENTS			
ENGINEER TJH	DATE 06/03/10	SIZE B	DWG NO 08-01018	REV B	LITER
APPROVED R.J.A.	DATE 3/20/17	RELEASE STATE FINAL		SHEET 7 OF 8	
THIRD ANGLE PROJECTION		SCALE NTS		&bhc_pn_note	

TELL MFG

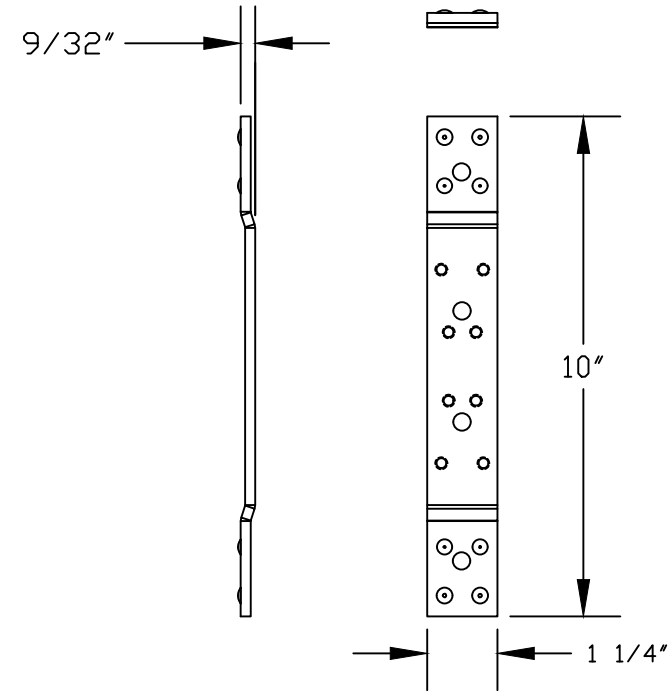
Spectrum
Brands

Hardware &
Home Improvement

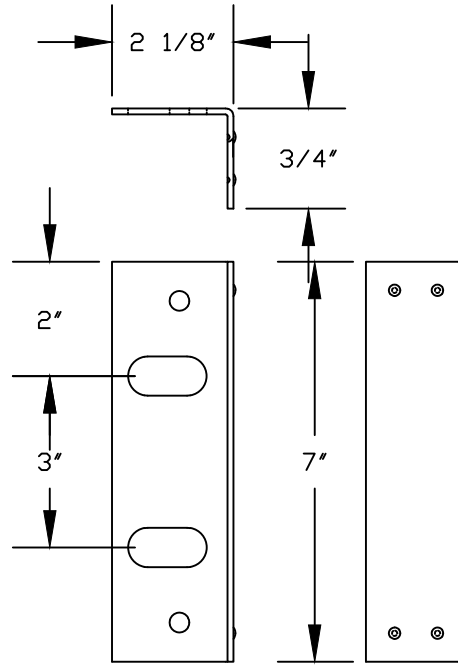
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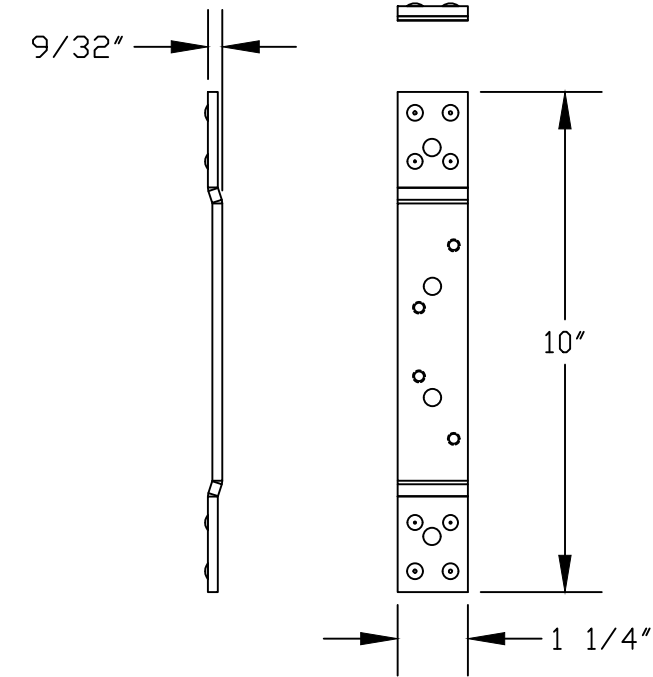
(22) JAMB EXTENSION ASSEMBLY
16GA GALVANNEALED STEEL .053" MIN. THICK (CHANNEL)
12GA GALVANNEALED STEEL .108" MIN. THICK (CLIP)



(10) DOOR HINGE REINFORCEMENT
10GA. GALVANNEALED STEEL .138"MIN. THICK



(16) HINGE JAMB CLIP
(23) FLOOR BASE CLIP
12GA. GALVANNEALED STEEL .108 MIN. THICK



(4) FRAME HINGE REINFORCEMENT
10GA. GALVANNEALED STEEL .138" MIN. THICK

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

Digitally signed
by Robert J
Amoruso
Date:
2017.04.07
13:08:06 -04'00'

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CHECKED	DATE	TITLE TIOGA DOORWAY SYSTEM TDS-D-KD-WS STEEL DOUBLE DOOR OS - IMPACT COMPONENTS			
ENGINEER	DATE	SIZE B	DWG NO 08-01018	REV B	LITER
APPROVED	DATE	RELEASE STATE FINAL			
THIRD ANGLE PROJECTION		SCALE NTS	SHEET 8 OF 8		