

DATE: March 30, 2023
PO No. **3983-22**
CUSTOMER **COMMERCIAL CONTRACTING, INC.**

CONTACT: TOM & MELISSA CUTLER
TEL: 559.297.4550
FAX:
EMAIL: commercialcontracting@live.com

Project Name: **FRESNO COUNTY MAIN JAIL**

SCOPE OF WORK: **DETENTION HOLLOW METAL DOOR / FRAME**

FCW Project No.: **4389**
FCW Project Mgr: Mark Koeppen mark@fordererdoors.com
FCW Project Engr: Debbie McLean debbie@fordererdoors.com

SEE SHEET 1 - BACK TO BACK PULL/FLUSH PULL

SUBMITTAL RECORD

Qty	Date	Issue	Description	Sent Via
1	03/30/2023	Approval	Hollow metal submittal	email
1	05/23/2023	Approval	Hollow metal submittal REV. 1	email
1	05/26/2023	Approval	HM submittal - REV. 2	email

Forderer Cornice Works

23052 Bernhardt St. Hayward, CA. 94545 Tel: (510) 783-4200 FAX (510) 783-6646



5/26/23 Please see our reply
on page 21 of this submittal.
Mark Koeppen /
FORDERER

**COUNTY OF FRESNO
DEPARTMENT OF PUBLIC WORKS AND PLANNING**

Date 06/26/2023 By: Matt Lopez

- ☒ NO EXCEPTIONS ☐ MAKE CORRECTIONS NOTED
☐ SUBMIT SPECIFIED ITEM(S) ☐ REVISE AND RESUBMIT
☐ REJECTED. RESUBMIT ☐ COMMENT LETTER ATTACHED

Corrections or Comments made by the County on shop drawings or submittal documents during this review do not relieve the Contractor or his Sub-Contractors of the requirements of the Drawings and Specifications. This Review is only to check for general conformance with the design concept and general compliance with the Contract Documents. The Contractor remains responsible for confirming and correlating all dimensions and quantities; selecting fabrication processes and techniques of construction; coordinating the work of the trades; and performing the work in a safe and satisfactory manner.

Sheet Title

Title Sheet

Job No.

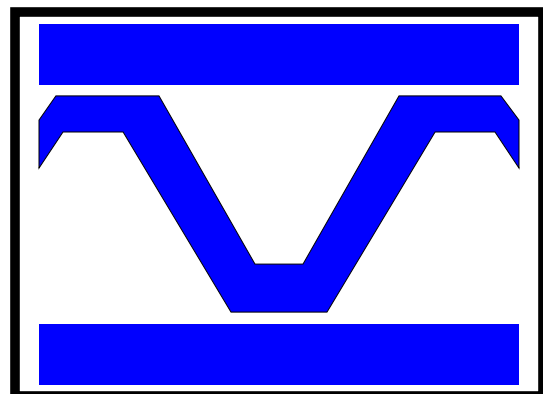
4389

Date

03/30/2023

Sheet

A



Trussbilt

CORPORATE OFFICE:

2375 Ariel Street N
Maplewood, MN 55109
TEL (651) 633-6100
FAX (651) 633-2350

MANUFACTURING PLANTS:

555 Lincoln Avenue NW Huron, SD 57350 TEL (605) 352-5283 FAX (605) 352-7141	801 Lincoln Avenue NW Huron, SD 57350 TEL (605) 352-7096 FAX (605) 352-7153
--	--

~~SECURITY HOLLOW METAL~~

**JOB: MAIN JAIL ACCESSIBILITY COMPLIANCE FOR PHYSICAL
BARRIERS - THIRD FLOOR, POD B
FRESNO COUNTY**

ARCHITECT: MATTHEW B. LOPEZ

CUSTOMER: FORORDERER CORNICE WORKS
23052 BERNHARDT STREET
HAYWARD, CA 94545

SHOP DRAWING SHEET INDEX

REVISION CONTROL RVC-1 to RVC-
GENERAL INFORMATION & SPECIAL NOTES . . SP-1 to SP-
HARDWARE H-1 to H-
SCHEDULES S-1 to S-
DOOR ELEVATIONS & SECTIONS D-1 to D-

PLANVIEWS	PV-1 to PV-
FRAME ELEVATIONS	F-1 to F-
PANEL/PLATE SCHEDULE	PPS-1 to PPS-
FRAME DETAILS	DT-1 to DT-
ANCHOR DETAILS	AN-1 to AN-

DRAWN BY

ORDER NO.

SUBMITTAL NO.

MATERIAL RECAP

FRAMES

1

TYPE

T'CORE

NON T'CORE

UNITS

0

SHELVES

— — —

—

DOORS

1

PANELS

— —

—

PRINTS ISSUED

DATE _____

NO.

TO

FOR

03/30/2023

1

FORDERER CORNICE WORKS

Approval

4389 Fresno Co Jail - recd 5-26-23 ~ REVISE & RESUBMIT

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IMPORTANT NOTICE TO JOBSITE PERSONNEL!

SHIPPING AND INSTALLATION NOTES

- 1. Shipping Damage - Material was shipped in first class condition. You must review condition prior to signing for shipment. You will be responsible for damage not reported.
- 2. Warranty/Backcharge Issues - None will be paid unless first approved in writing.
- 3. On Site Storage - Failure to comply will damage your hollow metal.
- 4. Installation - Improper installation will void warranty. See page SP-2 for instructions.

SHIPPING DAMAGE

FAILURE TO OBSERVE AND REPORT DAMAGE IN SHIPPING MAY COST YOU MONEY! Trussbilt products are normally shipped FOB Huron, South Dakota. Risk of loss or damage in transit passes to the customer when loaded, subject, of course, to the liability of the carrier. When products are unloaded, any damage must be noted on the delivery documents when signing for the delivery. Any damage or shortage discovered after delivery must be reported immediately to the carrier's regional office, together with a request for inspection of the damage. Unless these steps are taken, the carrier will refuse to pay, and the cost of the damage will be borne by the customer.

UNLOADING OF TRUSSBILT PRODUCTS

Whenever possible, Trussbilt products are shipped on pallets for ease of loading and unloading. The use of appropriate equipment intended for moving pallets is recommended for jobsite unloading. Due to the substantial size, weight or long span of some hollow metal products, pallet loading may not be possible. The use of cranes or forklifts to unload oversize material may cause bending or distortion. Unloading with the use of this equipment is not recommended. Temporary spreaders installed on hollow metal frames are not intended as unloading points. TRUSSBILT WILL NOT BE RESPONSIBLE FOR DAMAGE CAUSED BY UNLOADING.

WARRANTY/BACKCHARGE CLAIMS

Any claim for deficiency in design or fabrication of hollow metal products must be reported to Trussbilt's Quality Control Manager in writing, before beginning any field correction of the problem. Unless Trussbilt is given notice of any such issues, and a reasonable opportunity to correct them, Trussbilt will not be responsible for the cost of any such corrections.

ON SITE STORAGE

The following directions are intended to permit storage of Trussbilt-furnished material without damage to that material.

- 1. By inclusion of these guidelines as a part of the submittal drawings, and as part of the shipping documents, the contractor is officially notified that if these guidelines are not followed, Trussbilt will bear no responsibility for the failure of the primer or damage to hollow metal, and will not bear any of the costs for repair of said primer or hollow metal.
- 2. Unless otherwise stated in the job specifications, all doors and frames are painted with a high quality industrial primer. Because the primer must be porous to properly receive and hold top coats, moisture that comes in contact with the primer will seep through to the steel by capillary action. An electrolytic action then follows resulting in corrosion which causes the paint film to lose adhesion. The presence of oxygen at water-air interface behind the loosed paint film accelerates corrosive action and further prime coat deterioration. It is imperative that primed hollow metal at the job site be stored in accordance with the recommended guidelines for on-site storage. (see primer note)
- 3. It is the responsibility of the contractor to see that any scratches or disfigurement caused in shipping or handling are promptly cleaned and touched up with a rust-inhibitive primer and that materials are properly stored.
- 4. Store doors and frames under cover to protect them from weather and sunlight. The elements will damage the primer and allow rusting to occur.
- 5. Stack doors and frames on skids at least 4" off the ground or floor. This prevents standing water on the job site from contacting the doors and frames and rusting them at their base. The primer is designed for limited protection until the top coat is applied, not for submerged conditions.
- 6. Stack doors and frames in an upright position. Do not store horizontally.
- 7. Place wood spacers between doors and frames no less than ¼" thick. This allows air circulation around the prime coat and prevents moisture from accumulating between the doors and the frames. If this is not done the primer will deteriorate and rusting will occur. Stack no more than ten doors or single opening frames together, and no more than five multi-opening frames together. Longer stacks will cause an excessive weight burden on the back of doors and frames, and cause warping or bending.

PRIMER

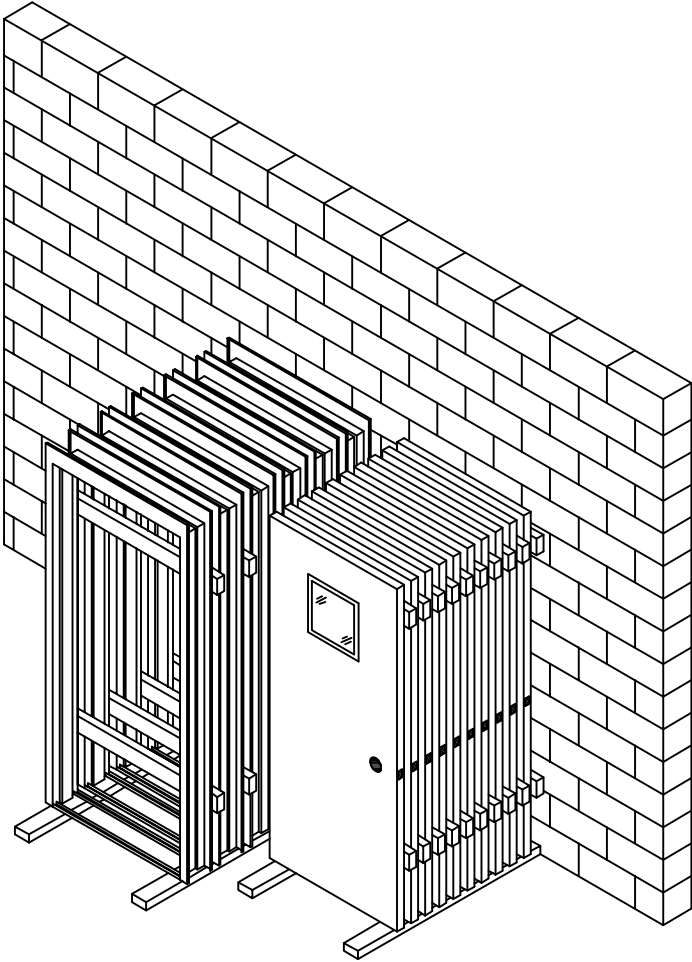
Trussbilt products are coated with a high quality primer. Primers provide limited protection for metal surfaces for a limited time.

DO NOT:

- 1. Expose primed steel products to weather.
- 2. Permit foreign materials, especially masonry leachate and other alkalies, to collect on or run onto primed products.
- 3. Permit nicking, chipping, scratching or abrading of primed surfaces.

These conditions will cause primer failure including loss of adhesion for which Trussbilt WILL NOT be responsible.

NOTE: Primer must be scarified (sanded) prior to finish painting to ensure proper cohesion of top coat to primer.



		N.T.S.		
ORDER NO.	SCALE	DATE	DRAWN BY	
JOB NAME:		JOB LOCATION:		CUSTOMER: Forderer Cornice Works
SHIPPING & INSTALLATION NOTES				
Trussbilt				
SHEET NO. SP-1				

FRAME INSTALLATION

- 1. Door frames are marked at the interior hinge reinforcement location. This hinge contains the Trussbilt opening number to help locate the frame in the proper opening. Borrowed lite frames have a metal tag attached to the frame throat.
- 2. Check frame for loose or missing conduit (conduit can loosen during shipment and/or from job site handling).
- 3. Consult the jobsite plans to ensure correct size and handing before installing frame.
- 4. Set the frame in the proper location and level the header. **Shim under jambs as necessary.**
- 5. Brace The frame to the structure or to the floor as shown in Figure 1. DO NOT BRACE IN THE DIRECTION OF THE INTENDED WALL. Plumb and square jambs.

The maximum tolerances that should be permitted in respect to squareness, plumbness, alignment and twist of the installation are shown in Figure 2.

NOTE: Installer should be careful not to create a tolerance build problem. Tolerance build occurs when more than one dimension is at or almost at its maximum tolerance.

- 6. Use temporary wood spreaders cut to accurate dimension, at mid-height and sill, removing the steel spacer angle at the floor (see Figures 3 and 4). The wood spreader must be square and fabricated from lumber no less than 3/4" thick. Correct spreader length is the door opening width between the jambs at the header. Cut clearance notch for frame stops. Spreaders must be nearly as wide as the frame depth for proper installation.
- 7. Check the frame for squareness and alignment, then secure floor anchors to floor slab.
- 8. Grout the frame in the area of the anchors.
- 9. Any gaps in the mortar guards or exposed fasteners should be taped or covered with styrofoam before grouting.
- 10. After frame is permanently built into the wall, with the anchors properly installed, remove the wood spreaders (see Figure 4).
- 11. Precautions must be taken to prevent foreign substances from coming into contact with hollow metal doors and frames during and after installation. **WARNING:** masonry walls exposed to rain and other elements during construction may become saturated with water. Saturation may cause leaching of soluble salts and other foreign substances. Trussbilt will not be responsible for damage to frames due to contamination. Recommendations for protection of masonry walls are available from the Brick Institute of America, 11490 Commerce Park Drive, Reston, Virginia 22091.

NOTE: Mortar cover caps and boxes are intended to protect tapped holes from masonry grout of a standard consistency which is hand-troweled in. If a light consistency grout is to be pumped into the frames after installation, special precautions must be taken in the field to protect tapped holes and electrical box knock-outs in the frames. We suggest that the field installed spreader at the center of the frame remain in place during the grouting process. Pumping liquified grout into frames under substantial pressure may cause bending, distortion or deformation of hollow metal frames. TRUSSBILT WILL NOT BE RESPONSIBLE for damage caused by pumping of grout at excessive pressures.

Hollow metal frames are not designated or intended to carry structural loads. Trussbilt disclaims any liability or responsibility for load carrying. Trussbilt's warranty and obligation is expressly limited to furnishing (but not dismantling or installing) necessary replacement materials FOB Huron, South Dakota, 57350.

DOOR INSTALLATION

- 1. Install hinges to the door.
- 2. Install door into frame by attaching hinge to frame hinge reinforcement. Brace door at bottom to prevent excessive weight on the top hinge.
- 3. Close the door & shim as necessary to maintain a 1/8" nominal clearance at the strike side of the assembly.

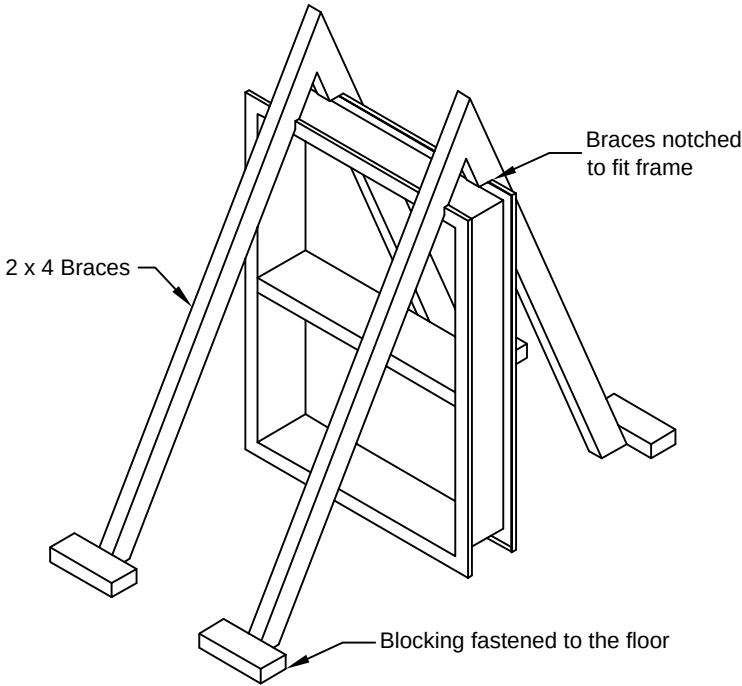


FIGURE 1

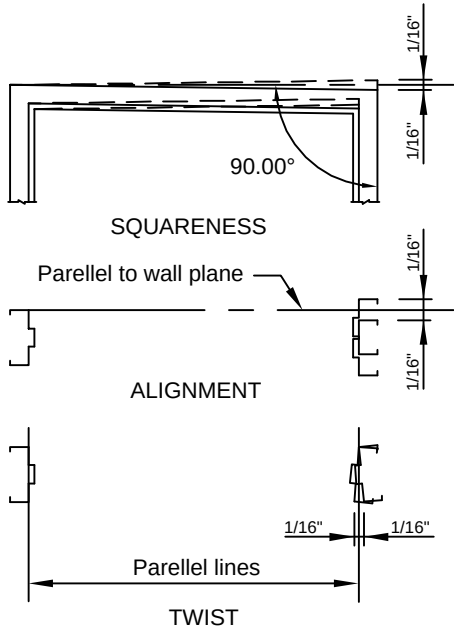


FIGURE 2

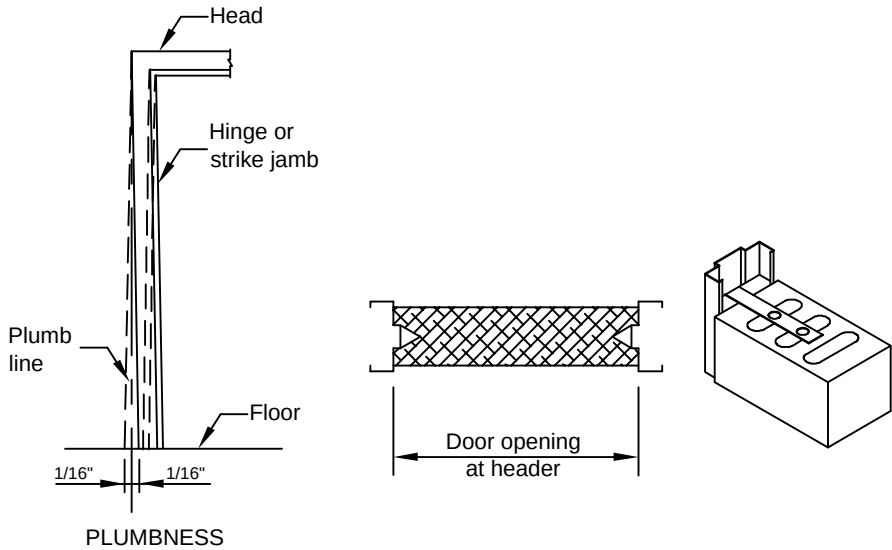


FIGURE 3

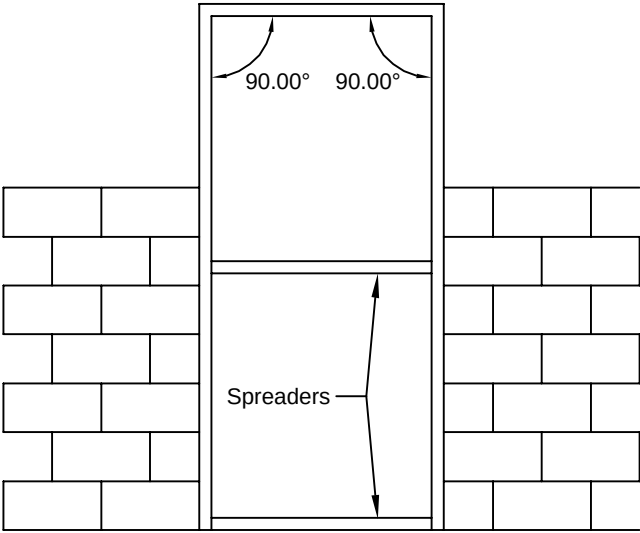


FIGURE 4

ORDER NO.		SCALE		DATE		DRAWN BY	
JOB NAME:		JOB LOCATION:		CUSTOMER:		Forder Cornice Works	
SHIPPING & INSTALLATION NOTES		N.T.S.					
Trussbilt		SHEET NO.		SP-2			

SECURITY HOLLOW METAL NOTES

- 1. Trussbilt does not furnish; Glass or Glazing, Drilling & Tapping for surface hardware, Erection & Finishing painting. Anchor bolts & Shields are provided only for post anchored label frames.
- 2. Application of detention hardware by Trussbilt to include locks, flush pulls, welded-on sliding door hangers and guides. Preperation only for jamb mounted locks, handle pulls and door position switches.
- 3. Doors and Frames are reinforced for surface closers and other surface items only as required by the hardware schedule. Doors only are drilled & tapped for surface prison hinges.
- 4. Welded up frames will be shipped with standard angle spreaders tack welded to frame bottom. Most frames will have fixed 12 ga. angle floor clips (see anchor note #1 on sheet's AN-2 and AN-3) and cover boxes behind hardware cutouts unless otherwise noted. Provide anchors spaced as shown on sheet AN-1 (Trussbilt standard anchor spacings).
- 5. Shipping sizes of materials is subject to limitations of common carrier. Oversize material must be shop spliced.
- 6. Punch for and provide 3 rubber silencers No. GJ64 at each single frame.
- 7. Punch for and provide 2 rubber silencers No. GJ64 at each double frame.
- 8. Door clearance at floor is always 5/8" unless noted otherwise
- 9. Close top and bottom of all doors flush
- 10. Drawing approval, Hardware, Glass and Intercom information (if applicable) is required before we can fabricate.
- 11. This set of drawings was made by us at our own expense for our sole use. Other parties using these drawings do so at their own risk.
- 12. Trussbilt drawings shall not be used to predetermine glass sizes. If used in this matter, risk is with the user, with no recourse to Trussbilt

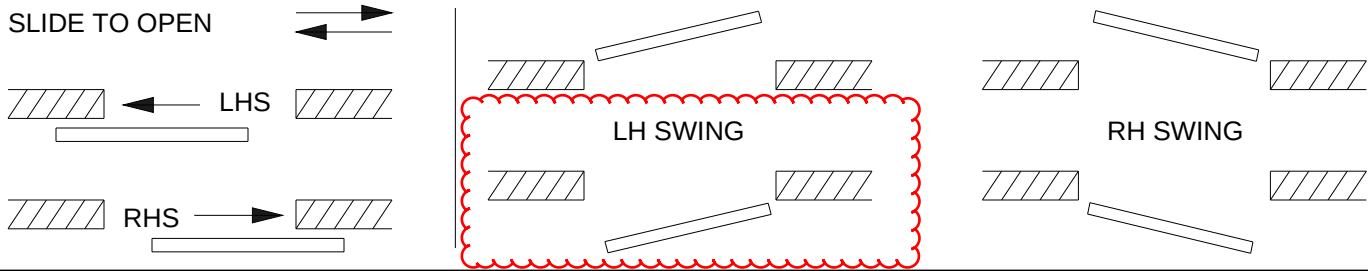
ADDITIONAL PROJECT NOTES

ABBREVIATIONS AND SYMBOLS					
TB	TRUSSBILT	AFF	ABOVE FINISH FLOOR	⌀	CENTERLINE
NBTB	NOT BY TRUSSBILT	TP	TURNING POINT	℞	PLATE
SE	SEE ELEVATION	O/A	OVERALL	WP	WELD IN PLACE
SD	SEE DETAIL	H	HINGE SIDE	Ø	DIAMETER
GA	GAUGE	S	STOP SIDE	[##.##]	METRIC DIMENSIONS
GV	GALVANIZE	B	BOTH SIDES	⬠	SHIPPING SECTION SYMBOL
UC	UL CONSTR. ONLY	N	NEAR SIDE	⬠P#	PANEL SYMBOL
S.S.	STAINLESS STEEL	F	FAR SIDE	⬠PL-#	PLATE SYMBOL
PV	PLAN VIEW	GP	GLAZING POCKET	FB	FROM BOTTOM
		CO	CUTOUT	FE	FROM END
		O.C.	ON CENTER		
		CP	COVER PLATE		

ERECTOR NOTE: GROUTING OF FRAMES

Jamb mounted lock pockets and mortar cover boxes are intended to protect hardware mortises and tapped holes from masonry grout of standard consistency which is hand troweled in. If a light consistency grout is to be pumped into frames, special precautions must be taken in the field, by others to protect tapped holes, electrical knockouts, ect., in frames

STANDARD DESIGNATION OF DOOR SWING/SLIDE



ORDER:

SUB ORDER:

RELEASE:

DATE:

DRAWN BY:

JOB NAME:

JOB LOCATION:

CUSTOMER:

ORDERER CORNICE WORKS

SPECIAL

NOTES

Trussbilt

SHEET NO.

SP-3

Project Spec Notes:

- .75 EMT Inner elevation conduit(i.e. Lock to DPS, Strikes to DPS,ect.). See frame elevation.
- .75 EMT Conduit for power. See frame elevation.
- Loose Glass stops to be matched drilled and held in place with two(2) security torx head screws. The screw holes in the glass stops to be 1/16 larger than the diameter of the screw to allow for adjustment. Ship remaining screws seperate except if Trussbilt is to install an insert into the opening, i.e. glass, mesh, panel, plate, etc. then all screws shall be installed by Trussbilt.
- Tap all screw holes when glass stop screws are shipped loose.
- Provide Mylar Labels On Doors and Frames At Openings With UL Fire Ratings.

Frame Spec Notes:

- All existing opening frames to recieve grout holes.
- All frames to have butt miter frame corners.
- Silencers to be provided at all door frames except where weather-stripping is shown in the hardware schedule.
- Silencers to have metal grout protection.
- Provide metal grout protection at all glass stop screws.
- Hold throat dimensions at all details.
- Open all intersections for maximum grout fill in field.
- Stop screws for frames to be 1/4-28 x .625" -- Button Head Torx Machine Screw .
- Provide 12 GA channel reinforcing at all frame heads where the jamb width exceeds 48"

Door Spec Notes:

- All loose glass stops to have fully mitered corners.
- All loose glass stops to have corners fully welded together to form a (1) piece glass stop.
- Stop screws for doors to be 1/4-28 x .625" -- Button Head Torx Machine Screw .
- Trussbilt to provide 3/8" thick pull reinforcing for all raised pulls.
- Side Edges Finished Smooth With Bondo. No Visible Seams Allowed.
- See door construction details for special welding requirements to end channels and/or filler channels.

Anchor Spec Notes:

- UL anchor to be spaced 8" FB and 16" O\C max in jambs.
- UL anchor to be spaced 6" FE and 16" O\C max in heads where the overall frame width exceeds 39"
- UL anchor to be spaced 6" FE and 16" O\C max in sills where the overall frame width exceeds 39"
- MS anchor to be spaced 8" FE and 16" O\C max in jambs.
- MS anchor to be spaced 8" FE and 16" O\C max in heads.
- MS anchor to be spaced 8" FE and 16" O\C max in sills.
- EO anchor to be spaced 6" FE and 16" O\C max in jambs.
- EO anchor to be spaced 6" FE and 16" O\C max in heads where the overall frame width exceeds 39"
- EO anchor to be spaced 6" FE and 16" O\C max in sills where the overall frame width exceeds 39"
- EO anchor bolt size is 0.5"
- EO anchors will be located at 16" O\C with the exception of the lock jamb where the anchors will be spaced accordingly to avoid interference with the lock. Due to this circumstance anchor spacing may exceed 16" O\C.

ORDER:

SUB ORDER:

RELEASE:

DATE:

DRAWN BY:

JOB NAME:

JOB LOCATION:

CUSTOMER:

FORDER CORNICE WORKS

NOTES

CONTROL

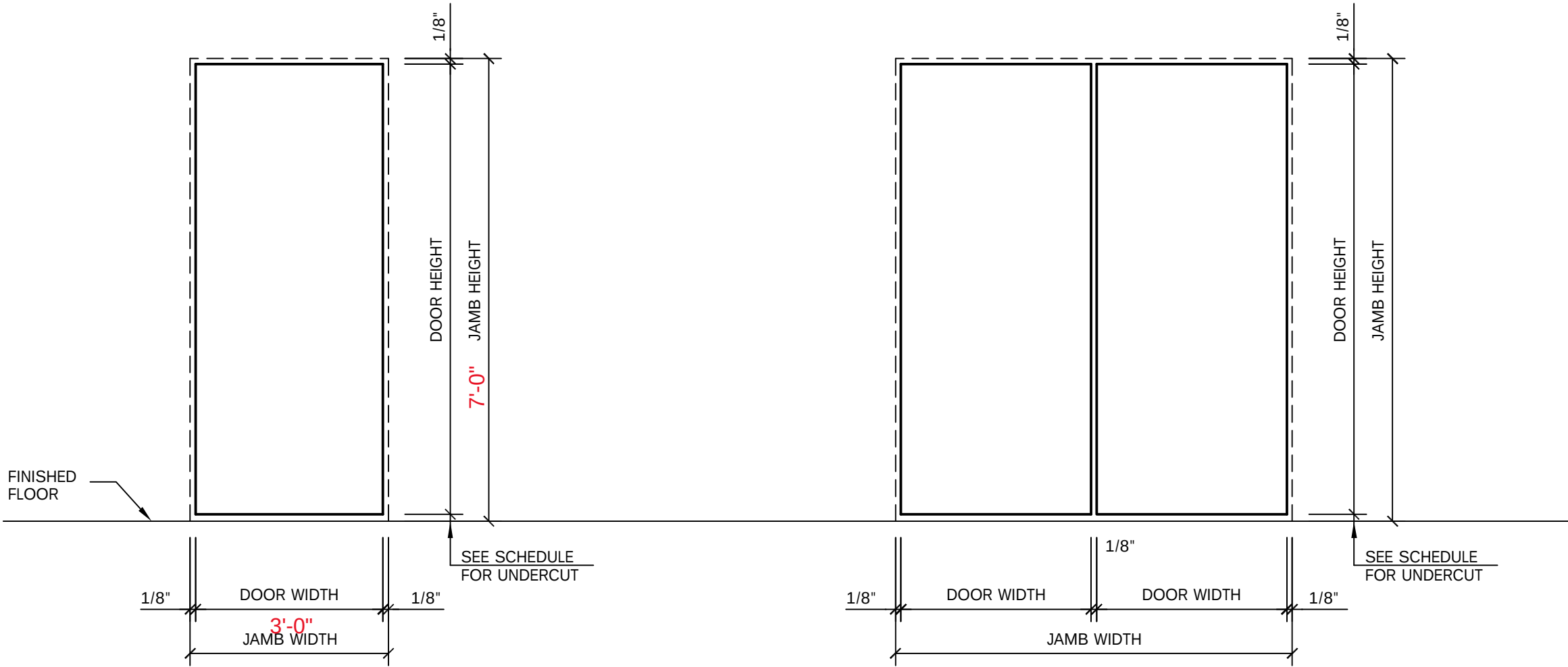
Trussbilt



SHEET NO.

N-1

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SINGLE DOORS

USE CLEARANCES SHOWN ABOVE
FOR ALL SINGLE DOORS.

SEE DOOR TYPE FOR DESIGN

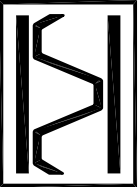
DOUBLE DOORS

USE CLEARANCES SHOWN ABOVE
FOR ALL DOUBLE DOORS.

SEE DOOR TYPE FOR DESIGN

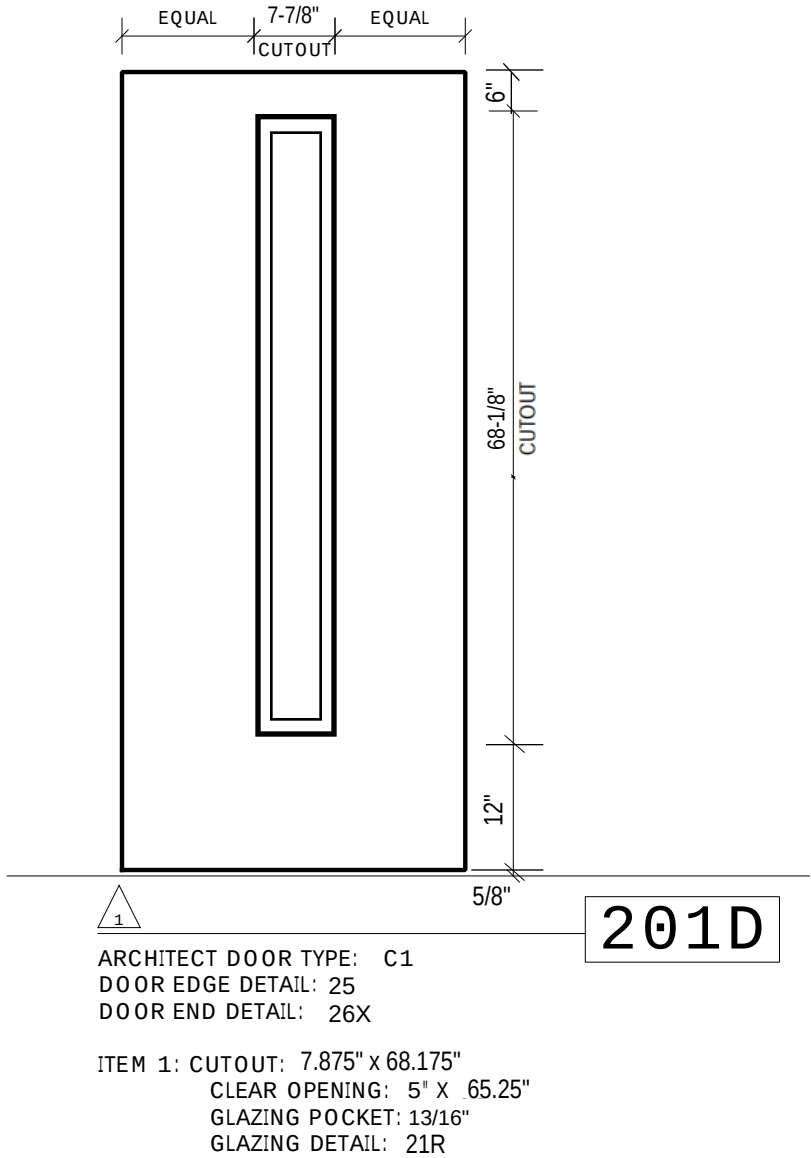
SEE PREFIX IN ELEVATION COLUMN,
EXAMPLE: D100D, D200D, D300D ETC.

TYPICAL DOOR CLEARANCES

JOB NAME:		ORDER NO.	
JOB LOCATION:		SCALE	N.T.S.
CUSTOMER: Forrester Corbice Works		DATE	
		DRAWN BY	
TYPICAL DOOR CLEARANCE			
			
SHEET NO.			
D-1			

HARDWARE SCHEDULE - RE-USE EXISTING

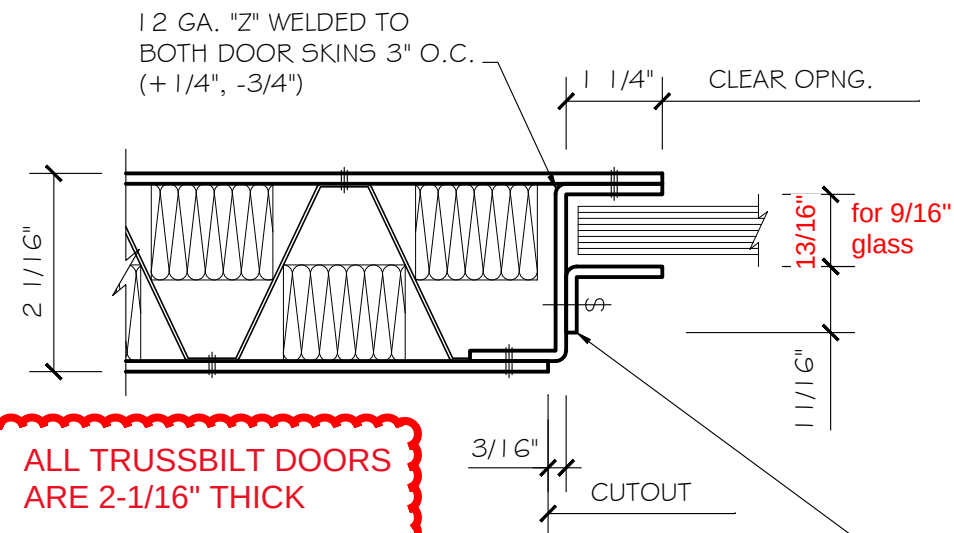
- (3) McKinney Hinges 5" x 4½" Heavy Weight
- (1) RR Brink 3022 Electromechanical Deadlocking Latch
- (1) RR Brink 201030 DPS
- (1) Push/Pull per template attached



3'0" X 7'0" OPENING
RHR

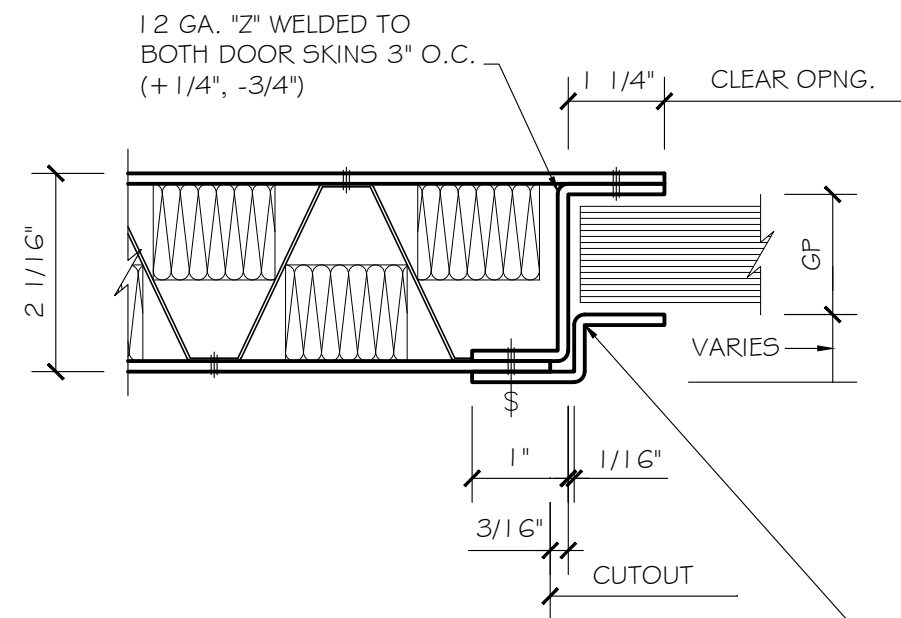
Accessible Cell 3073 & 3074

 Trussbilt		DOOR		JOB NAME:		ORDER:	1
				JOB LOCATION:		SUB ORDER:	
		ELEVATIONS				RELEASE:	
						DATE:	
						DRAWN BY:	1
SHEET NO.				CUSTOMER:		FORDERER CORNICE WORKS	
D-2.2							



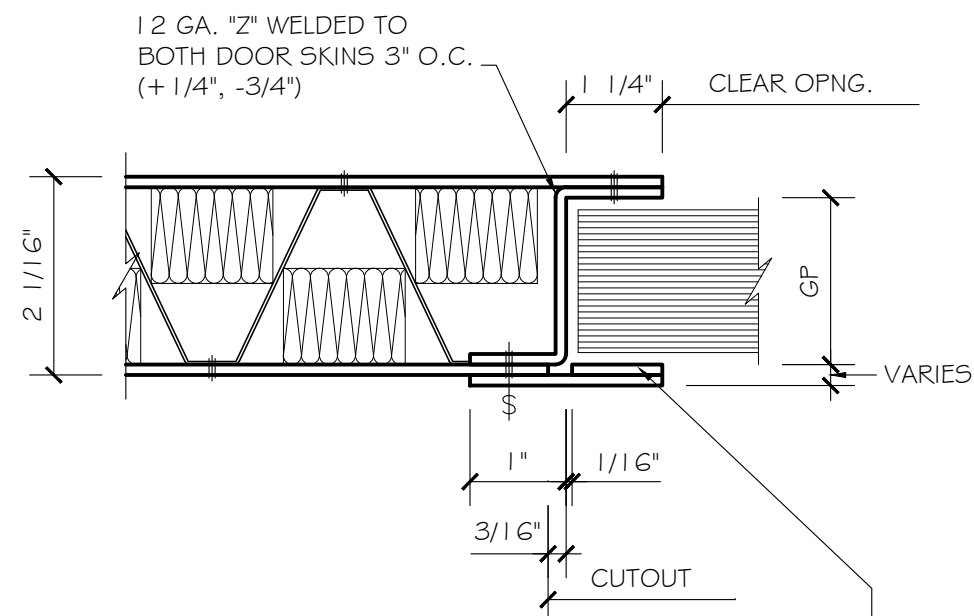
21R

12 GA. "L" STOP FASTENERS TO BE TAMPER RESISTANT SECURITY SCREWS SPACED AT 2" FROM EACH END AND 6" O.C. MAX. (REFER TO NOTE PAGE N-1 FOR SCREW TYPE INFORMATION)



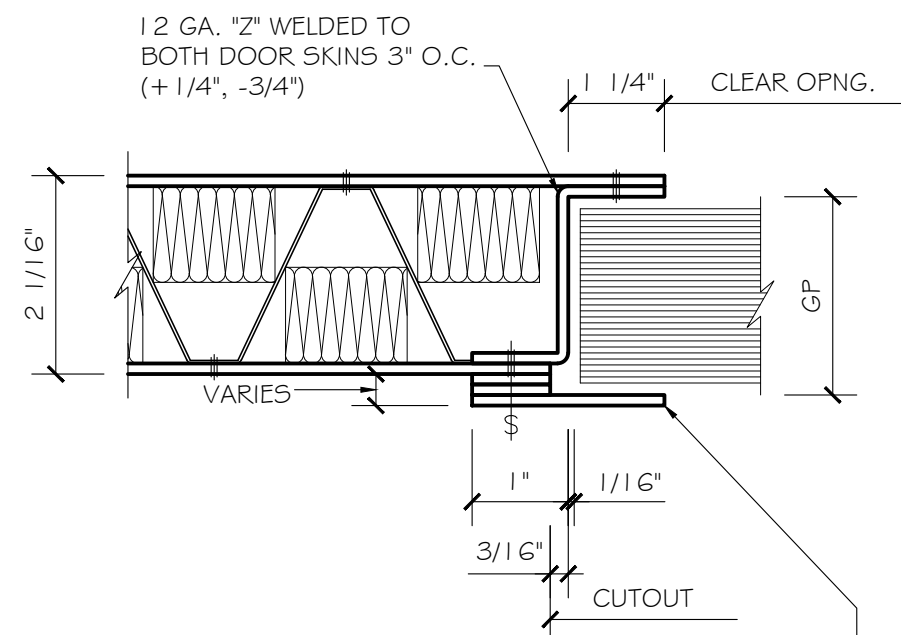
22R

12 GA. "Z" STOP FASTENERS TO BE TAMPER RESISTANT SECURITY SCREWS SPACED AT 2" FROM EACH END AND 6" O.C. MAX. (REFER TO NOTE PAGE N-1 FOR SCREW TYPE INFORMATION)



23R

12 GA. "PL" STOP FASTENERS TO BE TAMPER RESISTANT SECURITY SCREWS SPACED AT 2" FROM EACH END AND 6" O.C. MAX. (REFER TO NOTE PAGE N-1 FOR SCREW TYPE INFORMATION)



24R

12 GA. "L" STOP FASTENERS TO BE TAMPER RESISTANT SECURITY SCREWS SPACED AT 2" FROM EACH END AND 6" O.C. MAX. (REFER TO NOTE PAGE N-1 FOR SCREW TYPE INFORMATION)

Trussbilt		DOOR		JOB NAME:	
		DETAILS		JOB LOCATION:	
SHEET NO. D-3		CUSTOMER: FORDERER CORNICE WORKS			
		SCALE		1/2" = 1"	
		DATE			
		ORDER NO.			
		DRAWN BY			

TRUSSBILT

TEMPLATE DETAILS

ORDER

SHEET NO.

22340

DESIGN REVISION

1	12-12-92: CHANGED HINGE REINF. FROM 9" TO 10"
---	---

2	12-7-96: REVISED FILLER CHANNEL NOTE
---	--------------------------------------

3	7-30-98 (TT): REVISED FILLER CHANNEL WELD NOTE - INSULATION ALL SPACES & ADDED THICKNESS CHART
---	--

4	2-16-01 (TT): ADDED ASTM AND HMMA NOTE
---	--

5	12-30-03 (TT): DRAWN TO SCALE; ADDED ADDITIONAL WELD INFORMATION
---	--

6	01-28-09 (RG): REVISED EDGE SEAM NOTE.
---	--

7	04-08-13 (RG): ADDED BEVEL NOTE & REMOVED ASTM & HMMA REFERENCES.
---	---

PROJECT REVISION

X1	2/11/23 (CE): CHANGED FILLER CHANNEL WELDS TO 1-1/2" LONG @ 6" O.C.
----	---

X2

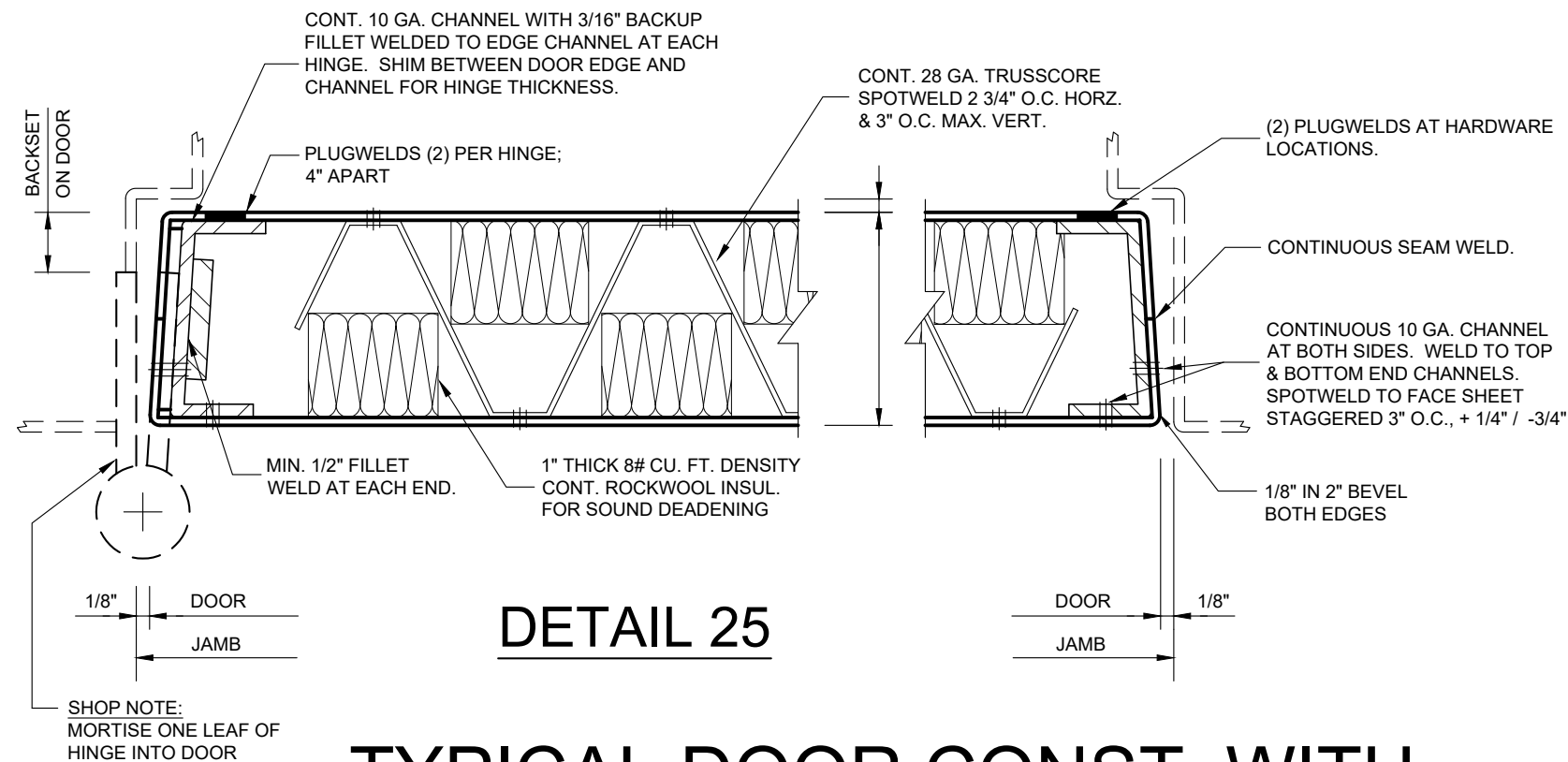
DATE	DRAWN BY	CHECK BY
10-8-92	JAE	RG

TEMPLATE NO.

25-26X

TEMPLATE SHT. NO.

1
OF
1

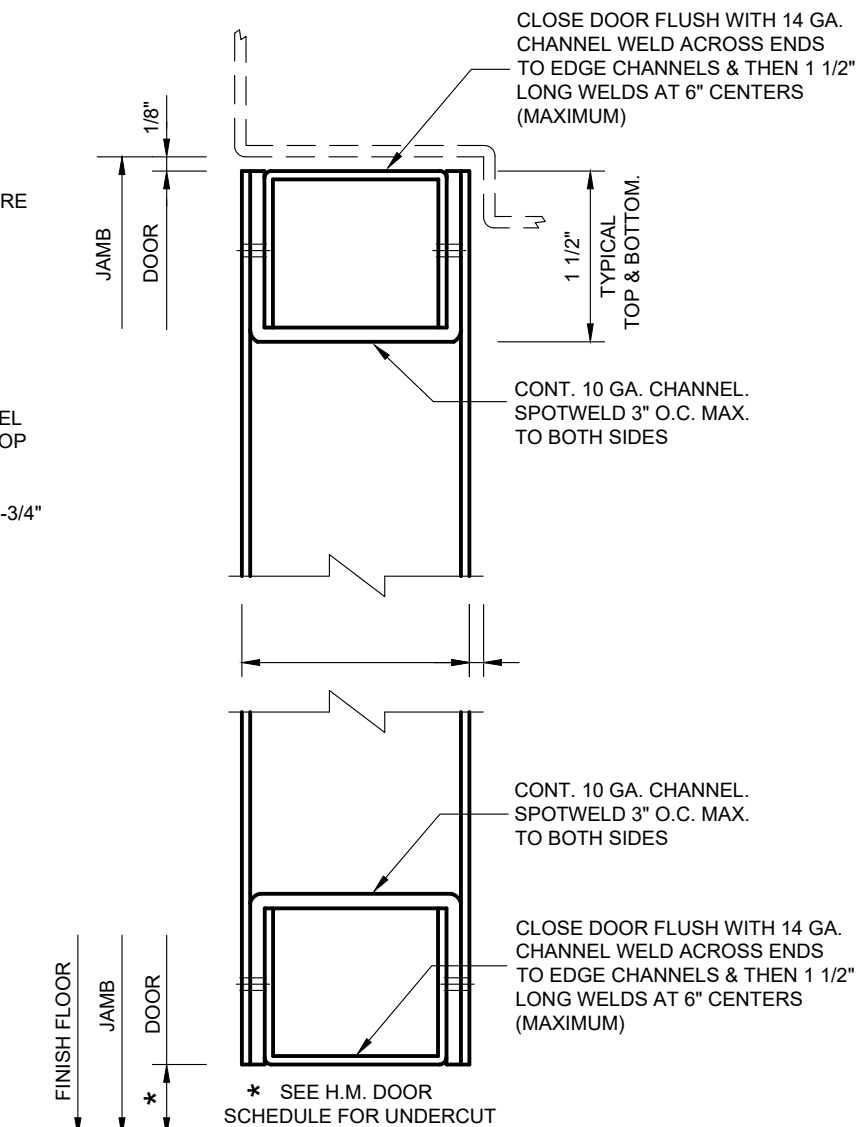


TYPICAL DOOR CONST. WITH 10 GA. PERIMETER CHANNELS

HINGE EDGE CHANNEL HAS FLAT BAR
BACKUP AT HINGE LOCATIONS

STANDARD DOOR THICKNESS

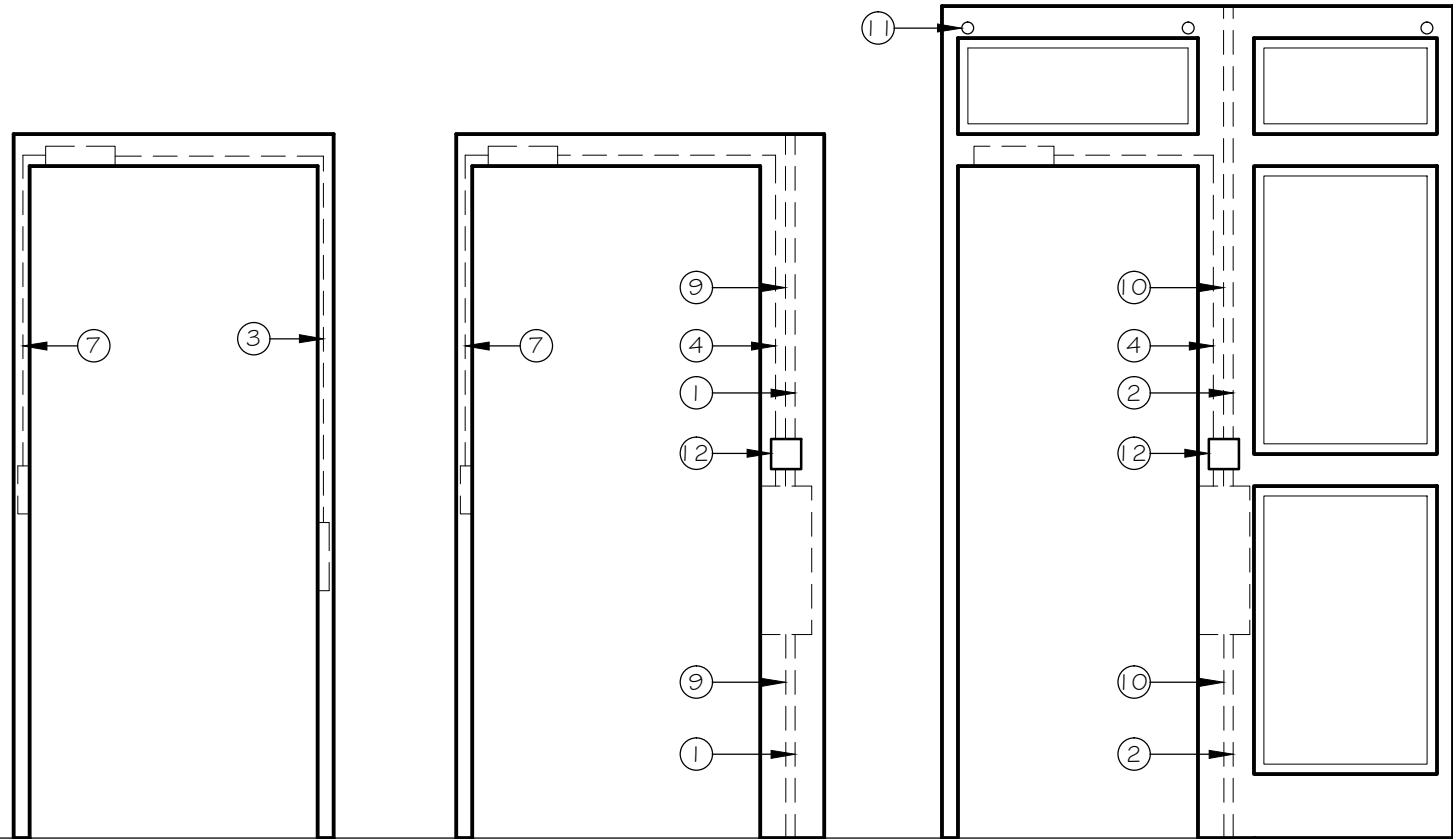
DOOR GAUGE	1 11/16" CORE	1 27/32" CORE
16 GA.	1 13/16"	1 31/32"
14 GA.	1 27/32"	2"
12 GA.	1 29/32"	2 1/16"
10 GA.	1 31/32"	2 1/8"



DETAIL 26X

- ① 3/4" Ø CONDUIT FOR POWER BY OTHERS MAY OCCUR, SEE HARDWARE SCHED.
- ② 3/4" Ø CONDUIT FOR POWER BY TB. MAY OCCUR, SEE HARDWARE SCHED.
- ③ 1/2" Ø CONDUIT BTWN. DPS & LOCK BY TB.
- ④ 3/4" Ø CONDUIT BTWN. DPS & LOCK BY TB.
- ⑤ 1/2" Ø CONDUIT BTWN. DPS & KEEPER \ ELEC. STRIKE BY TB. MAY OCCUR, SEE HARDWARE SCHED.
- ⑥ 3/4" Ø CONDUIT BTWN. DPS & KEEPER \ ELEC. STRIKE BY TB. MAY OCCUR, SEE HARDWARE SCHED.

- ⑦ 1/2" Ø CONDUIT BTWN. DPS & ELEC. HINGE BY TB. MAY OCCUR, SEE HARDWARE SCHED.
- ⑧ 3/4" Ø CONDUIT BTWN. DPS & ELEC. HINGE BY TB. MAY OCCUR, SEE HARDWARE SCHED.
- ⑨ 3/4" Ø CONDUIT FROM BACK BOX FOR POWER BY OTHERS
- ⑩ 3/4" Ø CONDUIT FROM BACK BOX FOR POWER BY TB.
- ⑪ GROUT HOLES SEE DETAIL GT-1
- ⑫ INTERCOM MAY OCCUR, SEE SCHEDULE

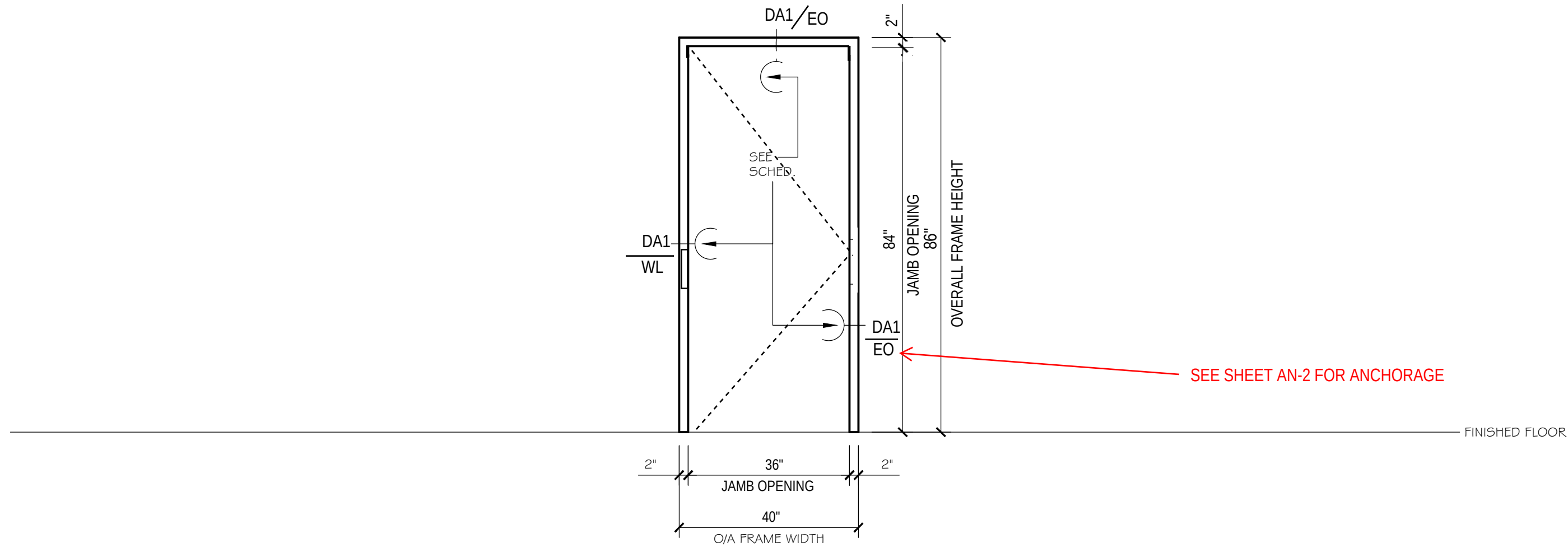


FINISHED FLOOR

TYPICAL FRAME NOTES

NOTES SHOWN ABOVE ARE FOR REFERENCE ONLY. SEE ACTUAL
FRAME ELEVATIONS FOR APPLICABLE NOTES.

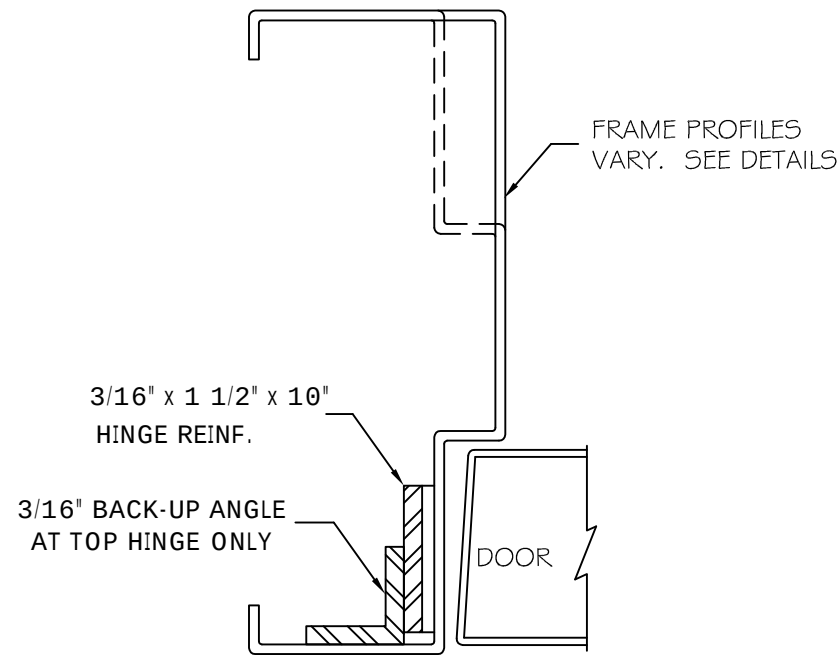
SHEET NO.		 Trussbilt		FRAME		JOB NAME:		ORDER NO.		
ELEVATIONS				JOB LOCATION		CUSTOMER: FORDERER CORNICE WORKS		SCALE		
								DATE		
								DRAWN BY		
F-1										



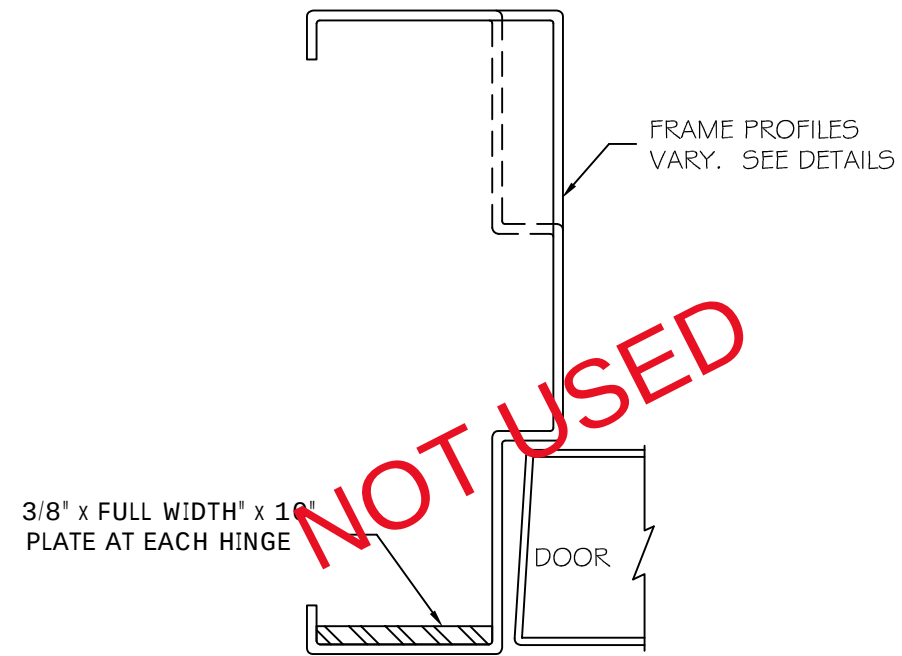
100F

ARCHITECT'S FRAME TYPE:
TYPICAL FRAME NOTES:
RH SHOWN/LH OPPOSITE

JOB NAME:		ORDER NO.	3
JOB LOCATION:		SCALE	1/2" = 1'-0"
CUSTOMER: FORDERER CORNICE WORKS		DATE	
ELEVATIONS		DRAWN BY	
FRAME			
ELEVATIONS			
Trussbilt			
SHEET NO.			
F-2			



HINGE REINF.
FOR MORTISED
HINGES



HINGE REINF.
FOR SURFACE
HINGES

TYPICAL HINGE REINFORCEMENT

NOTE:

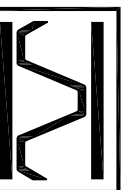
ERECTOR TO DRILL AND TAP
FOR SURFACE HINGES IN FIELD
IF REQUIRED.

ORDER NO.	SCALE	DATE	DRAWN BY
-----------	-------	------	----------

JOB NAME:	JOB LOCATION:	CUSTOMER: Forderer Corrice Works
-----------	---------------	-------------------------------------

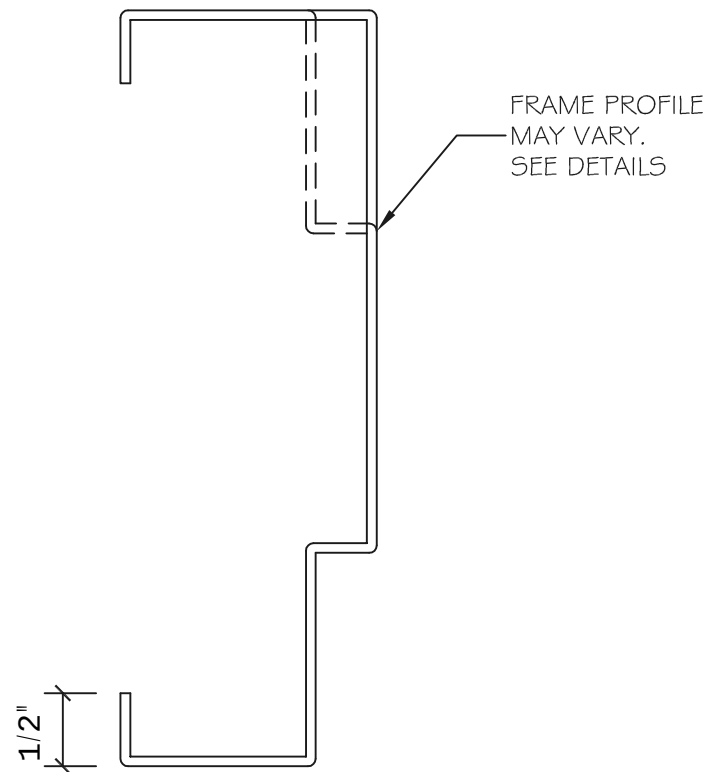
TYPICAL
HINGE
REINF.

Trussbilt



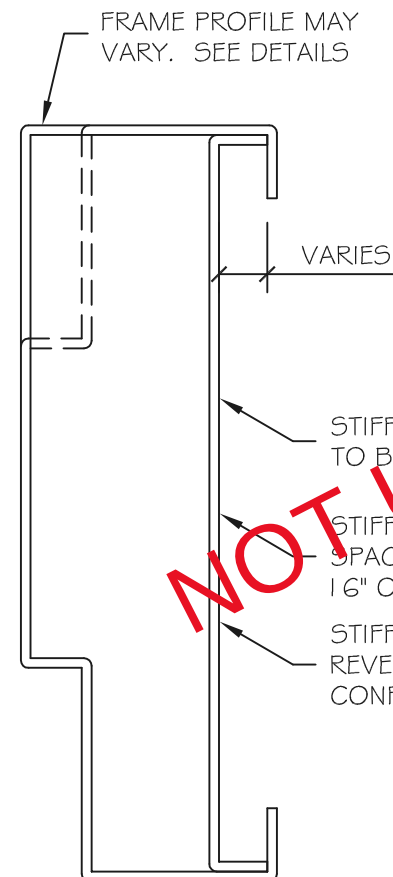
SHEET NO.

DT-1



REMINDER:
MINIMUM FRAME RETURNS FOR
10GA. FRAMES IS 5/8".

TYPICAL FRAME
RETURN DIMENSION



4" OR >	OCCURS AT 14GA. AND 16GA. FRAMES
5" OR >	OCCURS AT 12GA. AND 10GA. FRAMES

TYPICAL STIFFENER
CHANNELS

STIFFENER NOTES:

1. IF CP ANCHORS ARE USED
SEE FRAME ANCHOR SHEETS
(AN-1 AND AN-2).
2. WHEN UL ANCHORS OCCUR
SPACE STIFFENERS TO MATCH
ANCHOR YOKE.

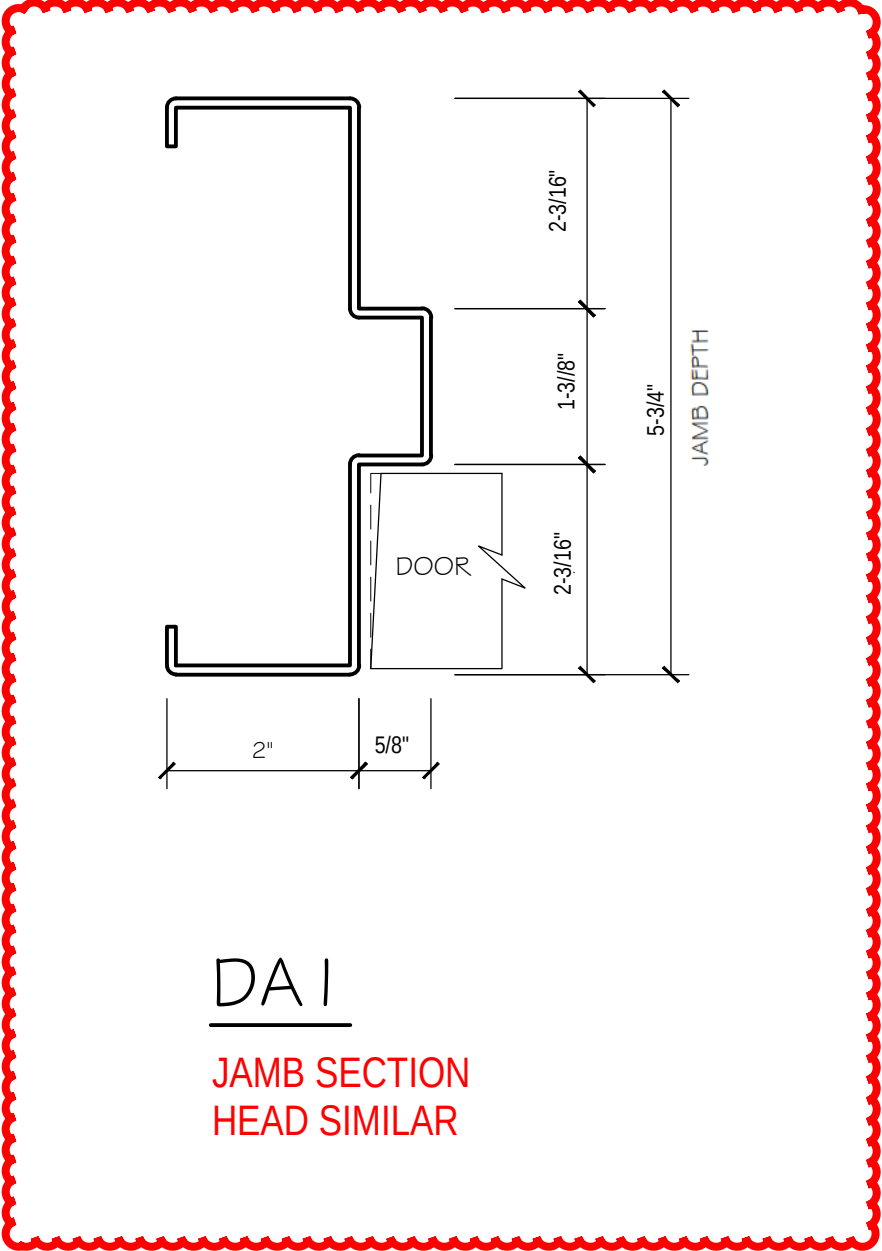
NOT USED

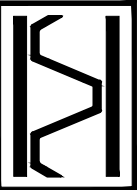
NOTE:

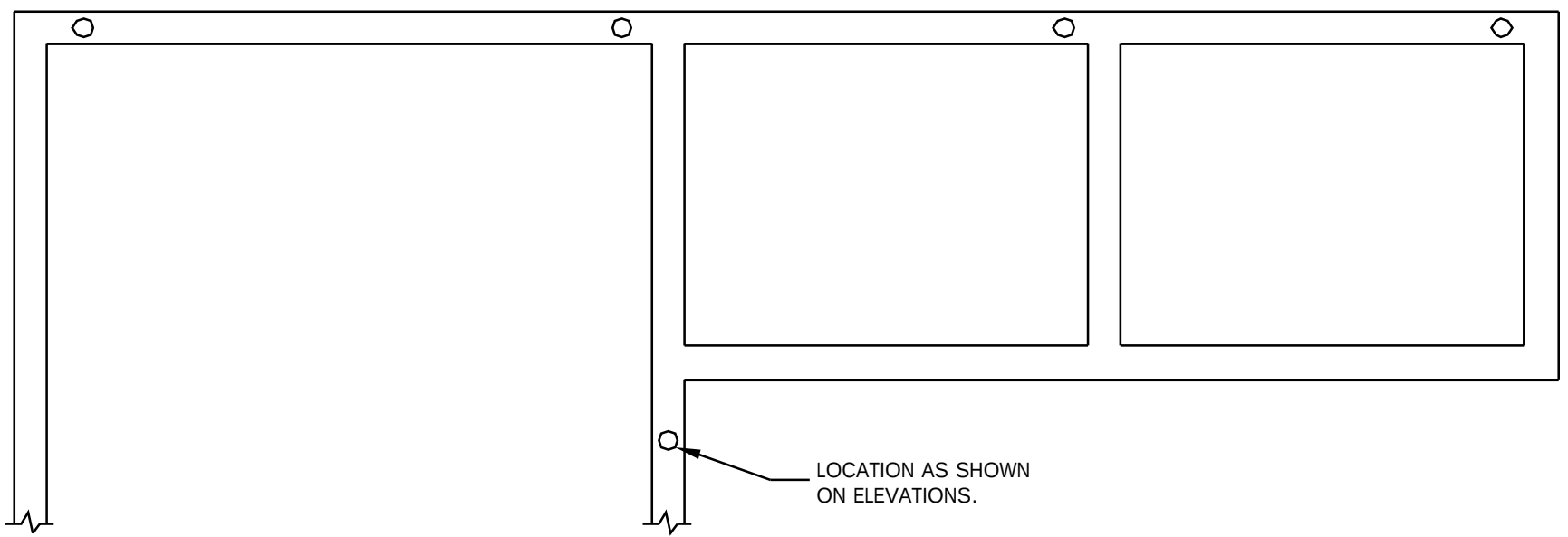
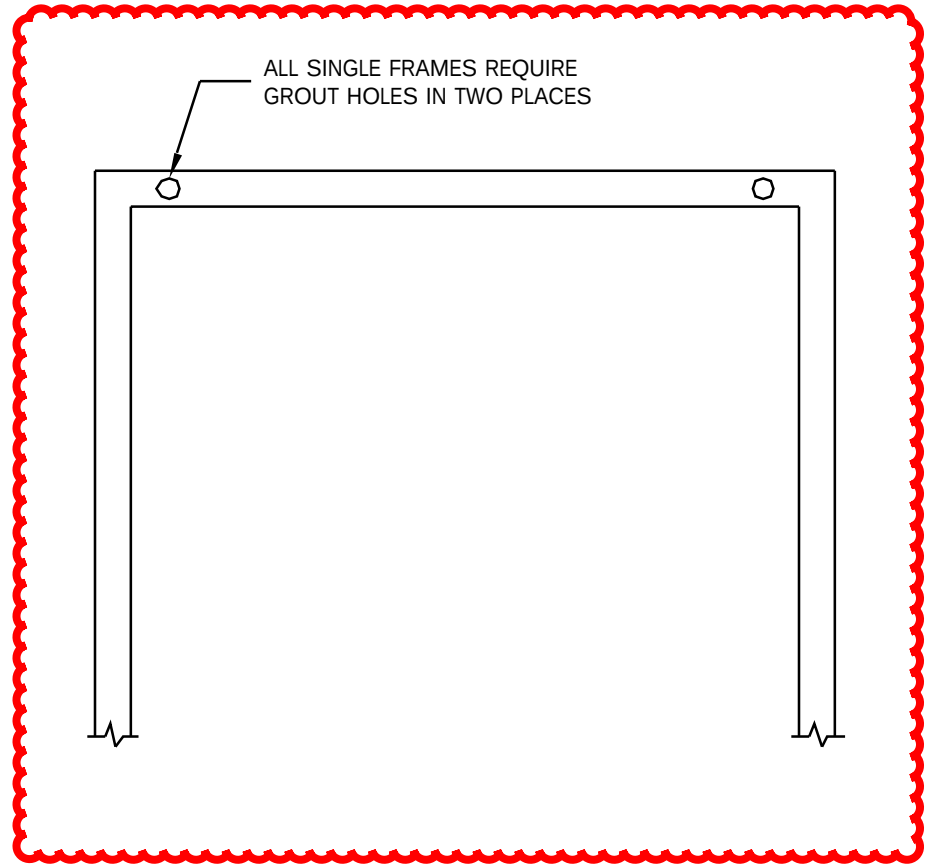
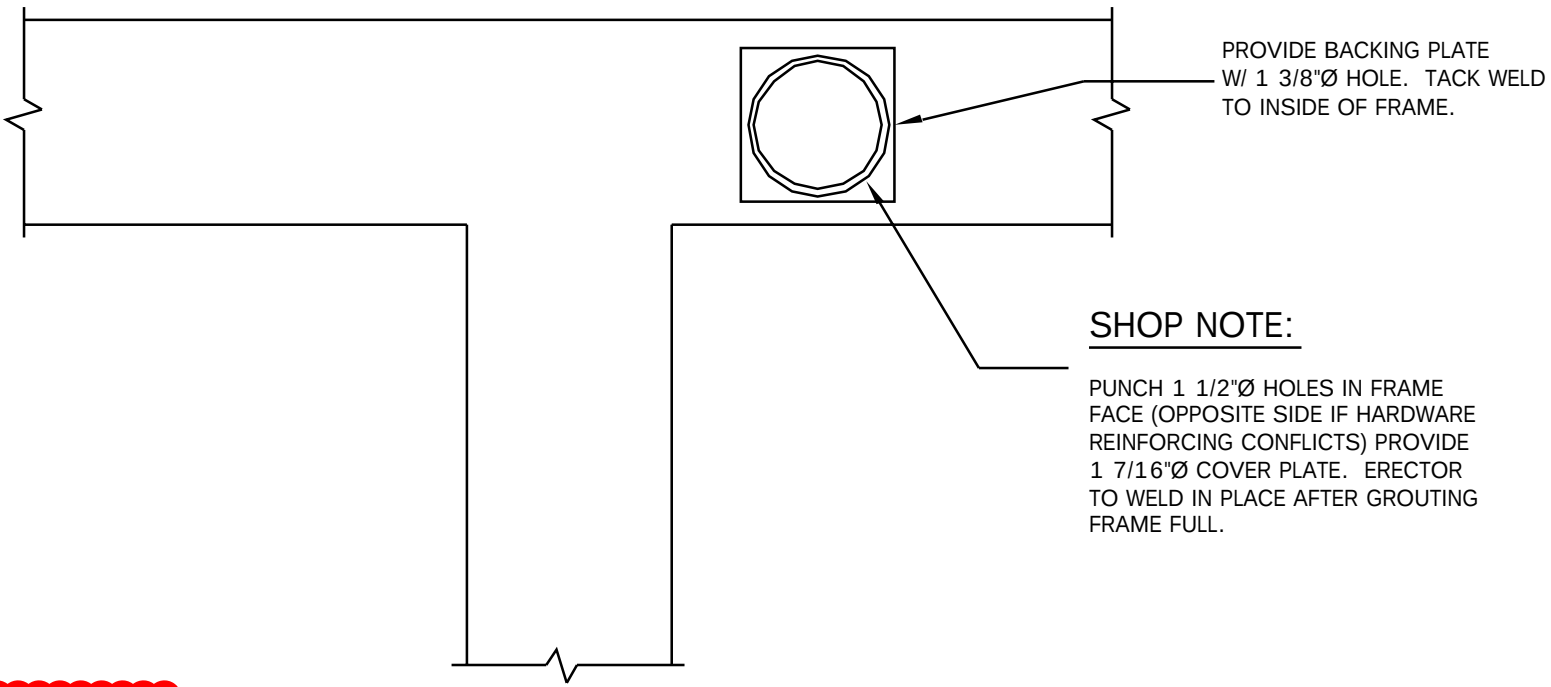
ALL INFORMATION SHOWN ABOVE IS
TYPICAL UNLESS NOTED OTHERWISE

 Trussbilt		TYPICAL DETAIL INFORMATION		JOB NAME:		ORDER NO.
				JOB LOCATION:		SCALE
				CUSTOMER: Forderer Corbice Works		DATE
						DRAWN BY

SHEET NO.
DT-2

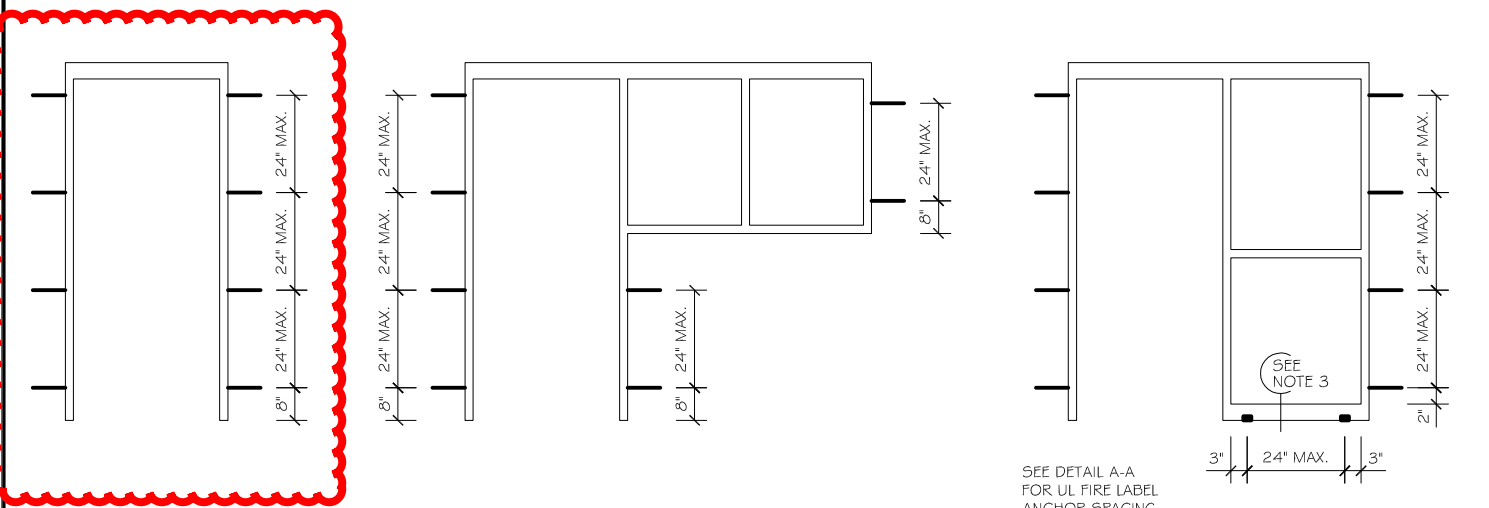


SHEET NO. DT-3	 Trussbilt	FRAME	JOB NAME:	ORDER NO.	
		DETAILS	JOB LOCATION:	SCALE	
			CUSTOMER: FORDERER CORNICE WORKS	DATE	
			DRAWN BY		



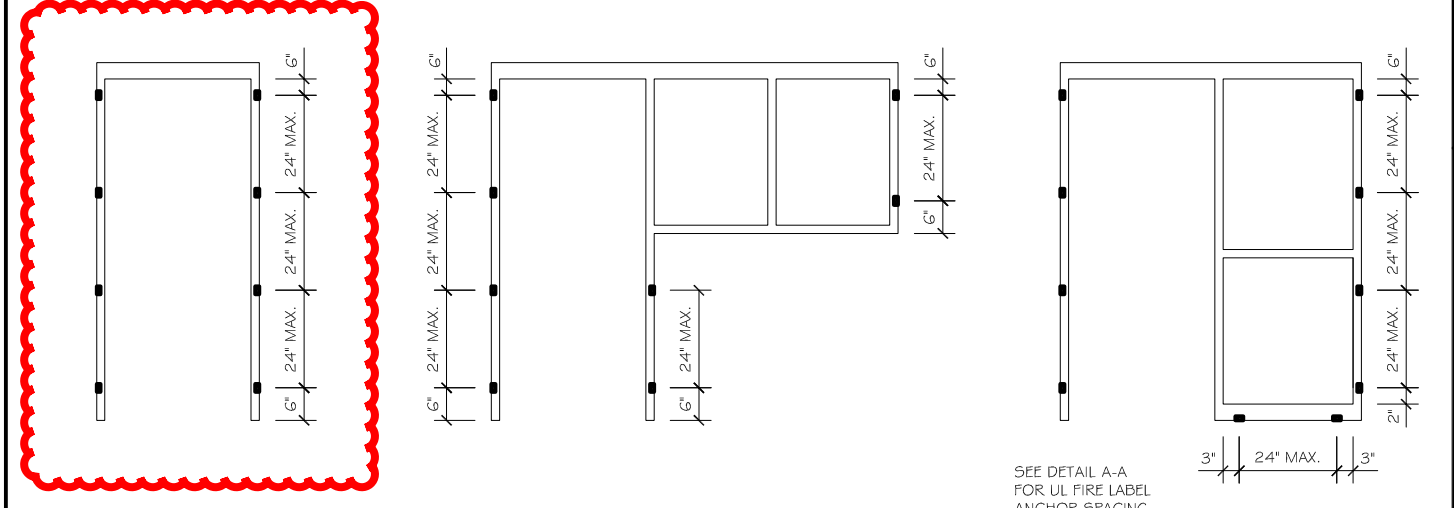
GT-1

SHEET NO.		 Trussbilt	TYPICAL GROUT HOLE	JOB NAME		ORDER NO.
DT- 7				JOB LOCATION:		SCALE
				CUSTOMER: Forderer Cornice Works		DATE
						DRAWN BY



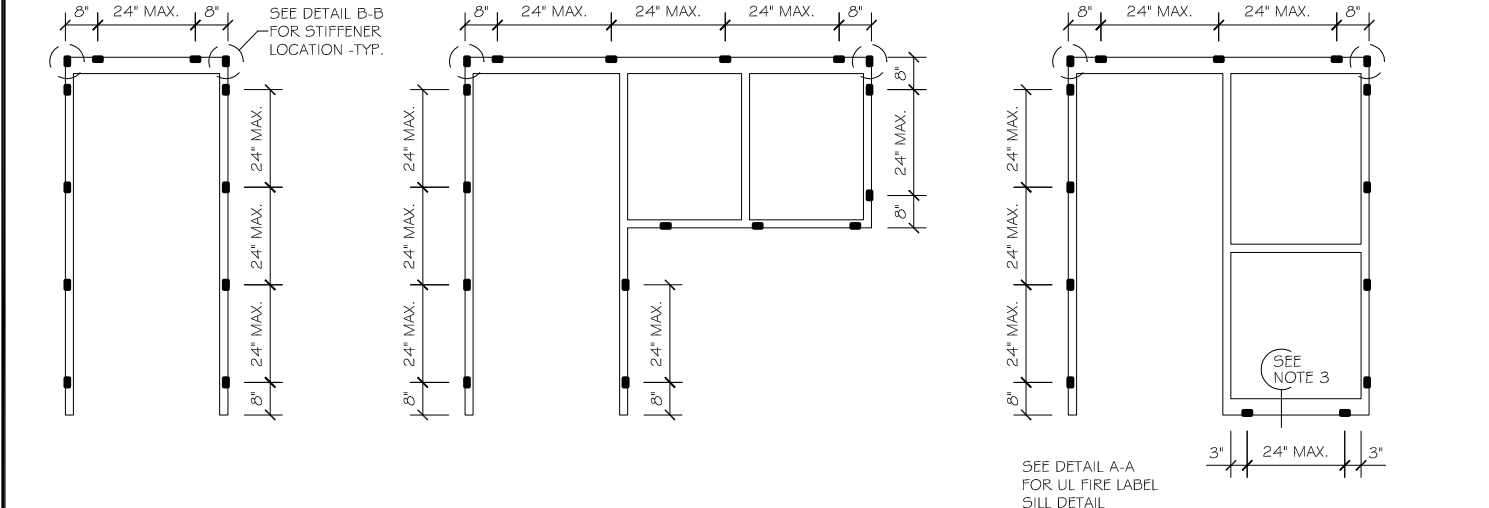
UL, AND WL ANCHOR SPACINGS

SEE DETAIL A-A FOR UL FIRE LABEL ANCHOR SPACING



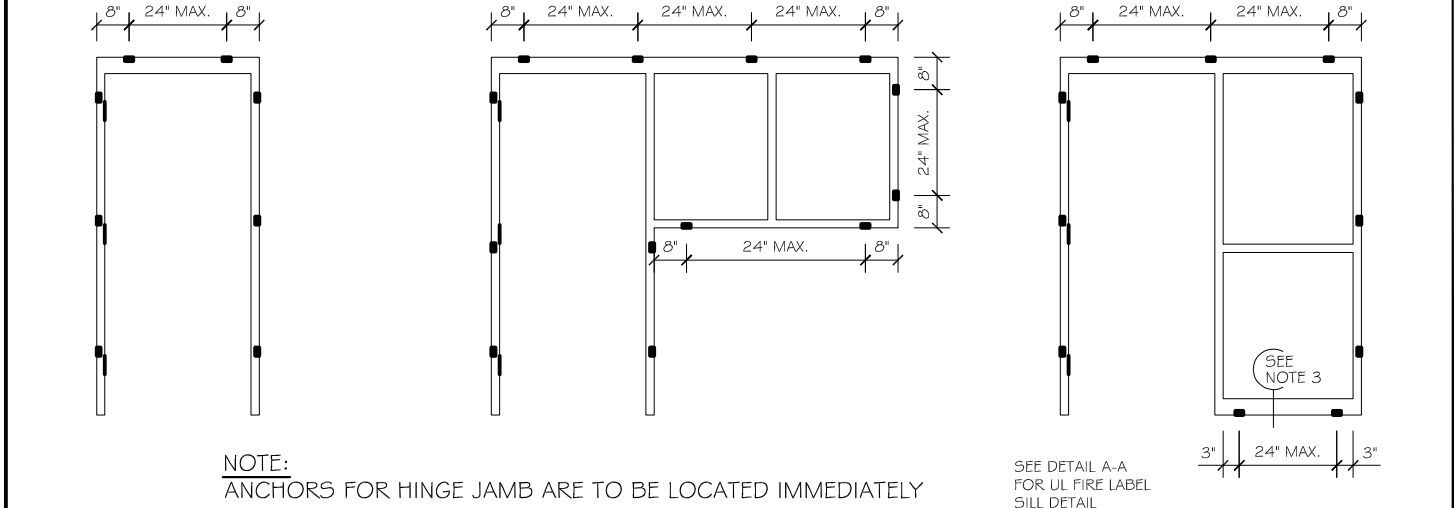
EO ANCHOR SPACINGS

SEE DETAIL A-A FOR UL FIRE LABEL ANCHOR SPACING



CP ANCHOR SPACINGS

SEE DETAIL A-A FOR UL FIRE LABEL SILL DETAIL



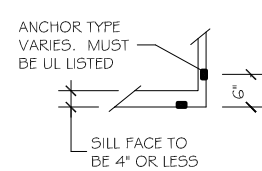
MS, CSZ, AND WS ANCHOR SPACINGS

NOTE:
ANCHORS FOR HINGE JAMB ARE TO BE LOCATED IMMEDIATELY ABOVE OR BELOW HINGE REINF. LOCK JAMB ANCHORS ARE DIRECTLY OPPOSITE FROM THE HINGE JAMB.

SEE DETAIL A-A FOR UL FIRE LABEL SILL DETAIL

ANCHOR SPACING NOTES:

- SEE SPECIAL NOTES PAGE FOR SPECIAL ANCHOR LOCATIONS THAT MAY BE REQUIRED.
- ANCHOR SPACING'S SHOWN FOR UL, EO, WS, & MS ANCHORS ARE PER UL REQUIREMENTS.
- FRAME SILLS LOCATED ON THE FLOOR ARE TO HAVE "EO" ANCHORS OR SILL CHANNELS.

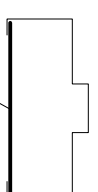


ANCHOR TYPE VARIES. MUST BE UL LISTED

SILL FACE TO BE 4" OR LESS

A-A

FOR FRAMES WITH A UL FIRE LABEL



1/2 GA. CP STIFFENER LOCATED IN THE TOP CORNERS OF THE FRAME JAMBS (PRECAST FRAMES)

B-B

ORDER NO.

SCALE

DATE

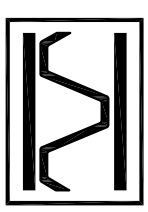
DRAWN BY

JOB NAME:

JOB LOCATION:

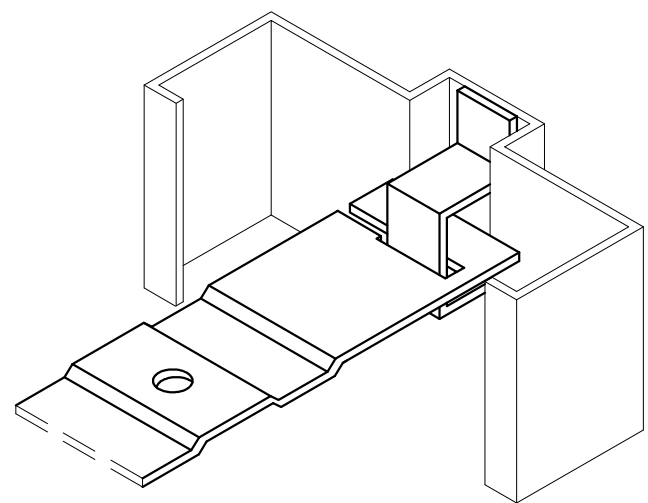
CUSTOMER:
Forderer Corbice Works

STANDARD ANCHOR SPACING



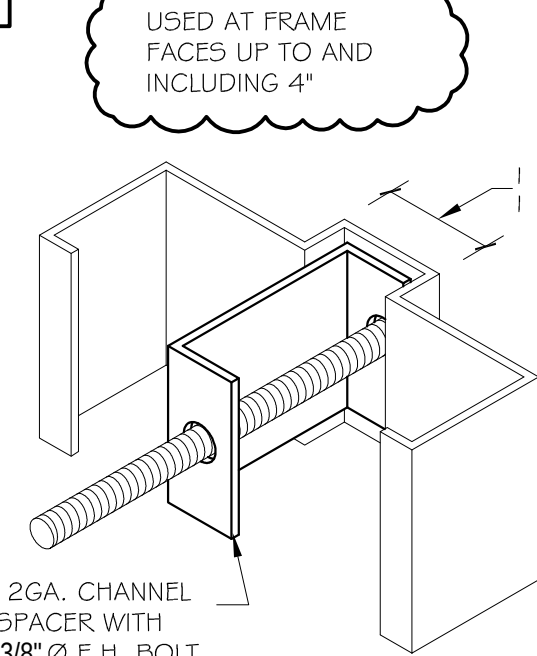
SHEET NO.
AN-1

ANCHOR NOTES:
#1 UNLESS OTHERWISE NOTED (PER CUSTOMER REQUEST)
FRAMES WITH "EO" AND "CP" ANCHORS DO NOT HAVE FLOOR
CLIPS.



UL LISTED

UL STANDARD MASONRY ANCHOR
(2" x 10 1/2" x 12GA. GALV. STRAP
WITH (2) 1" DIA. HOLES)

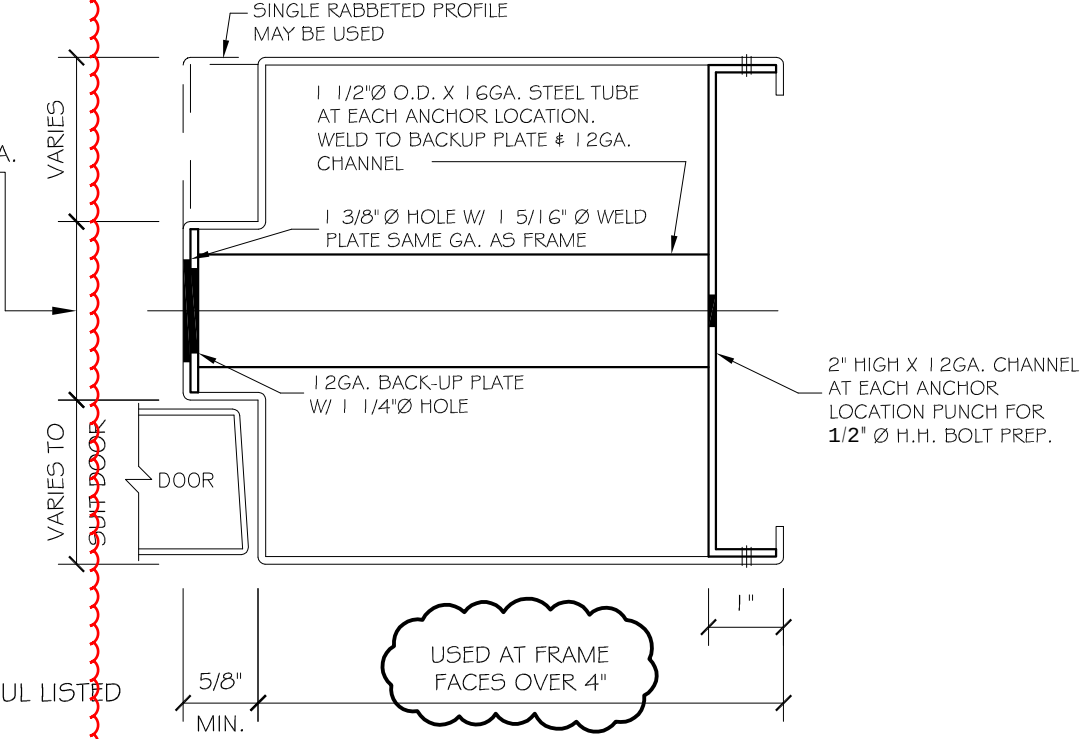


UL LISTED

USED AT FRAME
FACES UP TO AND
INCLUDING 4"

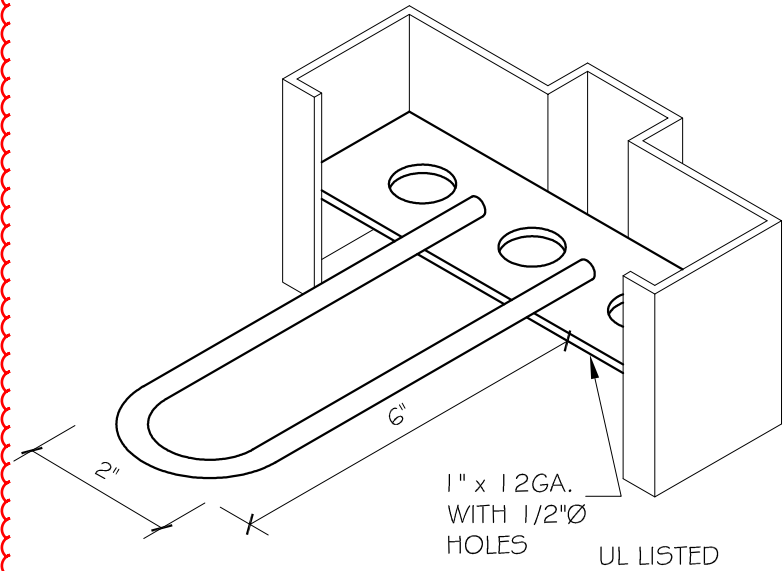
1 1/16" MIN. UP TO 12GA.
1 3/4" MIN. AT 10GA.

12GA. CHANNEL
SPACER WITH
3/8" Ø F.H. BOLT
PREP



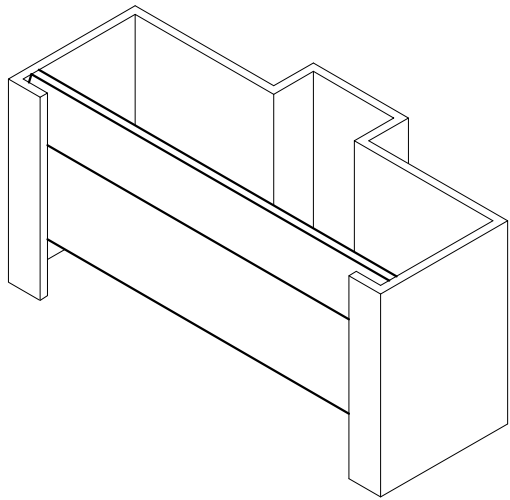
UL LISTED

EO EXISTING OPENING
ANCHOR
SEE ANCHOR NOTE #1



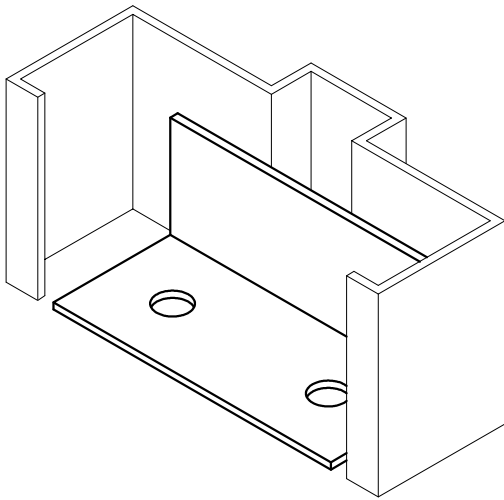
UL LISTED

WL WIRE LOOP
ANCHOR
(1/4" GALV. ROD
2" WIDE x 6" LONG)



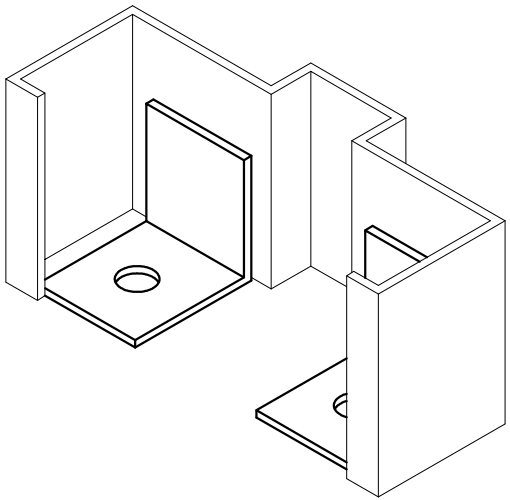
UL LISTED

CP CAST-IN-PLACE
ANCHOR
(12GA. GALV. CHANNEL)
SEE ANCHOR NOTE #1



UL LISTED

SC STANDARD
FLOOR CLIP
(12GA.)
SEE ANCHOR NOTE #1

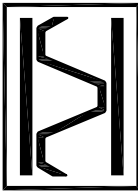


UL LISTED

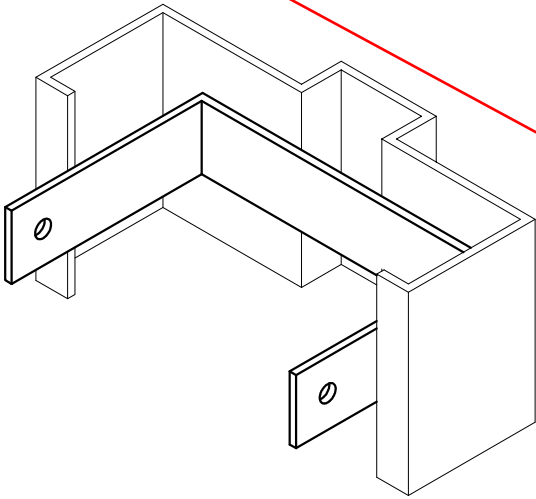
SC STANDARD
FLOOR CLIP
(12GA.)
SEE ANCHOR NOTE #1

AT HINGE JAMB

AT LOCK JAMB

FRAME ANCHORS		Trussbilt		SHEET NO.	
JOB NAME:				AN-2	
JOB LOCATION:					
CUSTOMER: Forder Cornice Works					
ORDER NO.					
SCALE				DATE	
DRAWN BY					

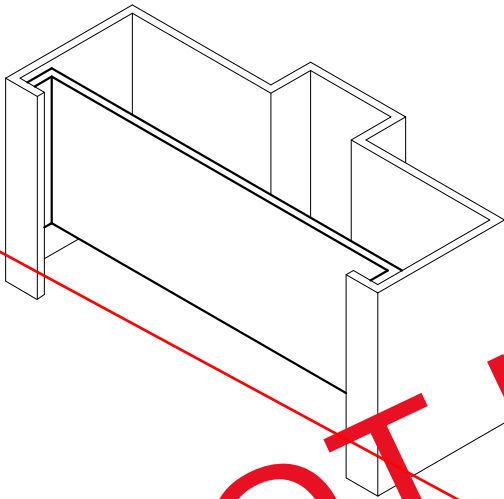
ANCHOR NOTES:
#1 UNLESS OTHERWISE NOTED (PER CUSTOMER REQUEST)
FRAMES WITH "EO" AND "CP" ANCHORS DO NOT HAVE FLOOR
CLIPS.



UL LISTED



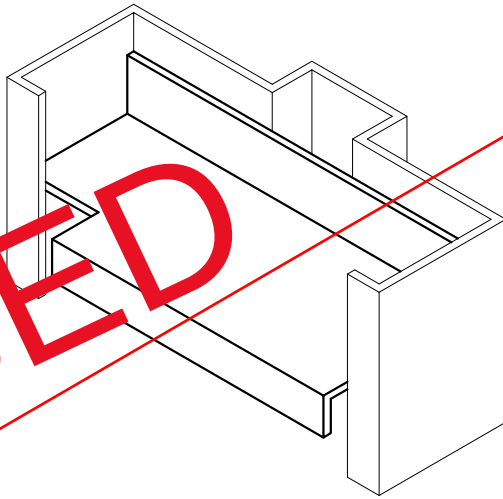
WOOD
ANCHOR
(16GA.)



UL LISTED



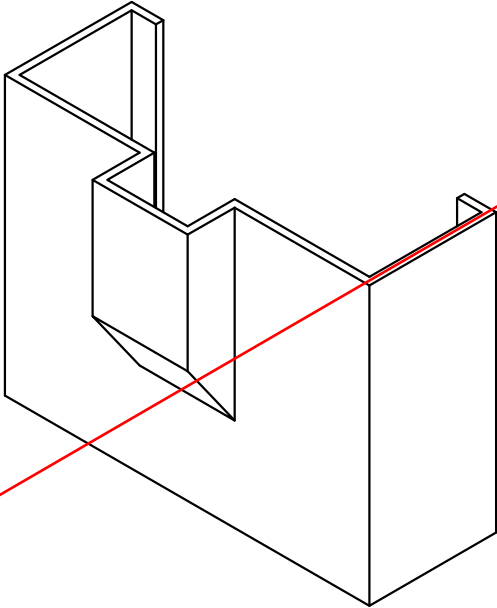
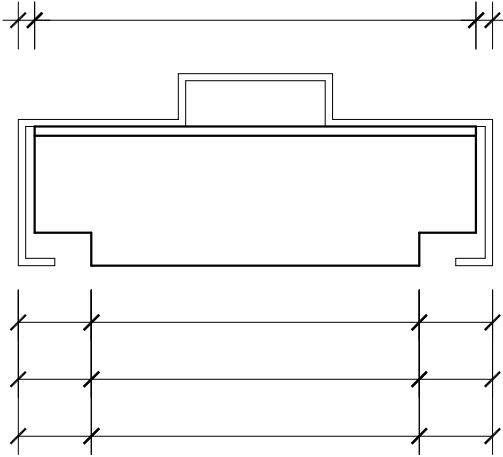
METAL STUD
ANCHOR
(16GA. CHANNEL)



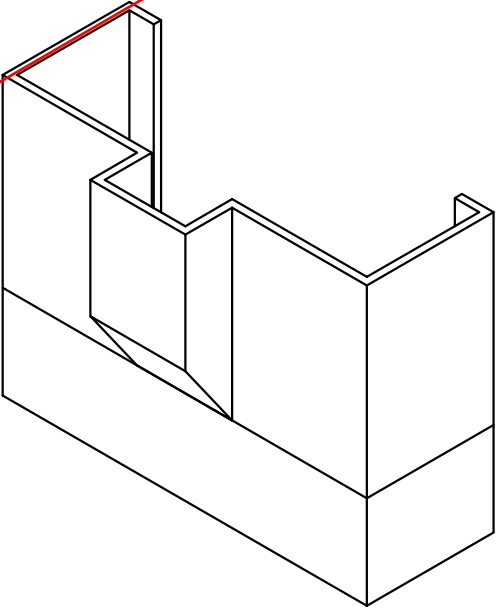
UL LISTED



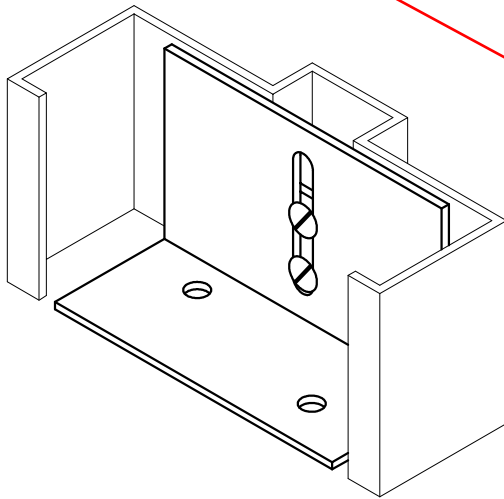
CHANNEL STEEL
STUD ANCHOR
(18 GA.)



HOLLOW METAL
SANITARY BASE



STAINLESS STEEL SPAT
SANITARY BASE

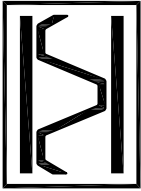


UL LISTED

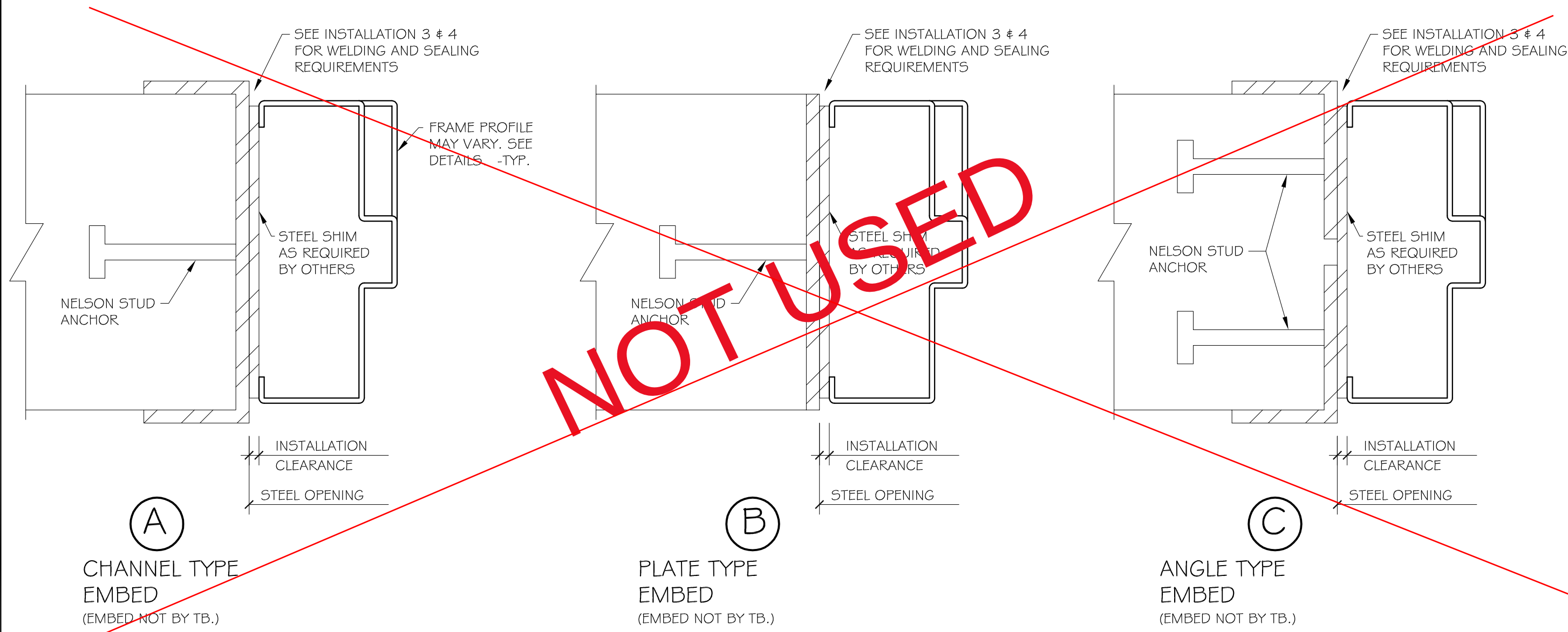


ADJUSTABLE
FLOOR CLIP
(12GA.)
SEE ANCHOR NOTE #1

NOT USED

ORDER NO.	SCALE	DATE	DRAWN BY
JOB NAME:	JOB LOCATION:	CUSTOMER: Forrester Corntice Works	
FRAME ANCHORS		 Trussbilt	
SHEET NO.		AN-3	

WELD-IN PLACE (WP) ANCHOR DETAILS



INSTALLATION INSTRUCTIONS: WELD-IN PLACE FIRE DOOR FRAMES

1. TRUSSBILT FIRE DOOR FRAMES MAY BE WELDED INTO A WALL OPENING WHICH HAS STEEL EMBEDS OF ONE OF THE FOLLOWING TYPES, AS ILLUSTRATED:

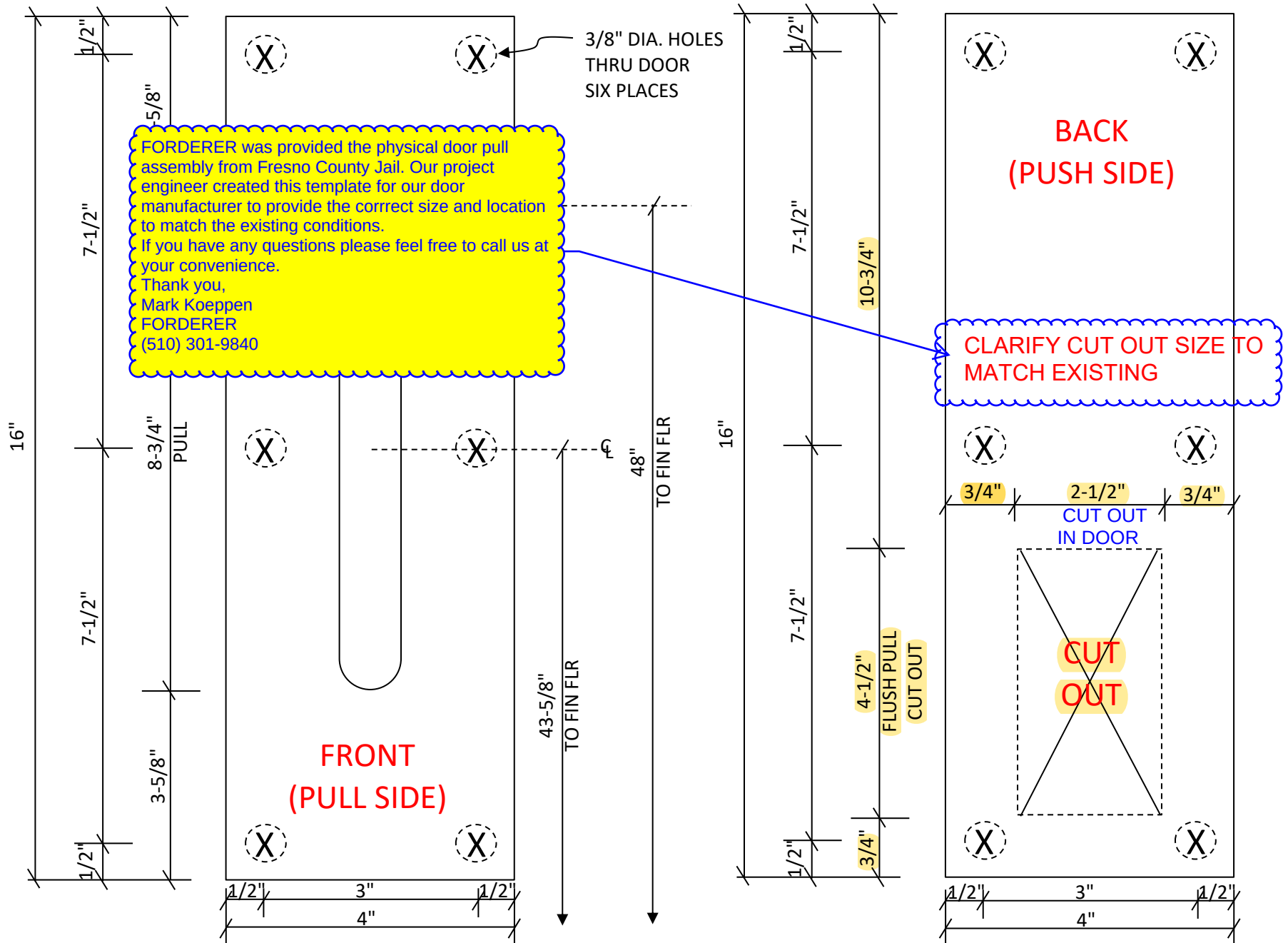
- A. STRUCTURAL TYPE CHANNEL
- B. PLATE TYPE (3/16" MINIMUM)
- C. DOUBLE ANGLES (3/16" MINIMUM)

2. THE OPENING WIDTH AND HEIGHT OF THE STEEL WALL OPENINGS MUST BE SIZED ACCORDING TO THE OVERALL WIDTH AND HEIGHT OF THE TRUSSBILT FIRE DOOR FRAME. SUFFICIENT INSTALLATION CLEARANCE MUST BE PROVIDED SO THAT THE FIRE DOOR FRAME REMAINS PLUMB AND SQUARE. A NORMAL CLEARANCE OF 1/8" TO 1/4" IS RECOMMENDED.

3. WHEN INSTALLING THE FIRE DOOR FRAME INTO THE WALL OPENING, STEEL SHIMS MAY NEED TO BE INSERTED BETWEEN THE FRAME AND THE STEEL EMBED TO MAINTAIN THE REQUIRED FRAME SIZE. AFTER THE DOOR FRAME IS IN PLACE, WELD THE FRAME TO THE EMBED ON EACH SIDE. WELD SPACING TO BE 2" IN 12". CAUTION, AVOID BUILD UP OF HEAT WHICH MAY CAUSE DISTORTION.

4. ANY SPACE OR VOID WHICH IS CREATED BY THE INSTALLATION CLEARANCE MUST BE FILLED WITH EITHER AN INTUMESCENT CAULK OR CONCRETE GROUT FILL TO COMPLETELY SEAL THE PERIMETER OF THE FIRE DOOR FRAME.

FRAME ANCHORS		JOB NAME:		ORDER NO.
 Trussbilt		JOB LOCATION:		SCALE
		CUSTOMER:		DATE
		Forrester Corbice Works		DRAWN BY
SHEET NO.		AN-4		





Detention Security Doors

Trussbilt doors are fabricated using Trusscore, a unique internal reinforcement system invented by Trussbilt in 1926. The Trusscore design gives us the ability to manufacture the strongest door in the marketplace at a weight 20% lighter than competing brands. Because of this innovative, light-weight construction, our doors will not overly fatigue expensive hardware and locking mechanisms, reducing lost time and costs associated with repairs and maintenance.

Trusscore is a truncated, triangular, roll-formed steel section extending continuously from one door face to the other. It spans the full length and width of the door. Trusscore is spot welded every 3" vertically and every 2 3/4" horizontally.

Special welding machines fuse the door face sheets to the Trusscore, forming a single welded structure. This design gives the door strength analogous to the structural strength of an I-beam. A typical Trusscore door has over 800 weld points, nearly 50% more than competing brands. This unified structure

results in the strongest door on the market, one that will not delaminate over time.

Trussbilt doors are custom built to architectural specifications and can accommodate requirements for:

- larger size
- bullet resistance
- vision and hardware configurations
- security level
- fire rating, including temperature rise
- cuff and shackle ports, with plate, flush and sliding options
- electrical or mechanical intercoms
- Trussbilt's Safe-T-Feed device
- lead lining
- additional vision reinforcement using wire mesh or bar grille
- speakers
- louvers
- shutters

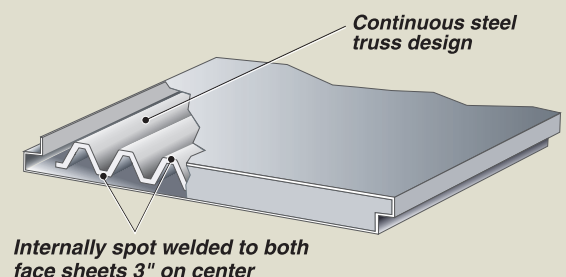
All options are available for both sliding and swing doors.

Trussbilt also offers the following value-added options to minimize field costs:

- factory hardware installation
- factory glass/glazing installation
- factory hanger and guide installation



The Trusscore design
gives us the ability
to manufacture the
strongest door in the
marketplace at a weight
20% lighter than
competing brands.





Detention Security Frames

Trussbilt door frames, borrowed light frames, exterior window frames and curtain wall frames are fabricated using the most up-to-date equipment and software in the industry. Trussbilt's experience, flexibility and superior quality lead to on-time submittal drawings and deliveries, virtually guaranteeing a successful hollow metal installation.

Trussbilt frames are custom built to architectural specifications and can accommodate any requirement for:

- size and shape (includes arches, trapezoidal and tilt-out variations)
- vision and hardware configurations
- security level
- fire rating
- bullet resistance
- electrical or mechanical intercoms
- glazing, infill, panel or wire mesh applications
- speak-through frame jambs for visitation areas
- lead lining
- key/paper pass
- transaction drawers
- thermobreak frames

- rough buck frames
- split frames
- round bars, mild steel or TR steel
- receiver columns

When inmate supervision is a concern, size does matter, and Trussbilt can fabricate borrowed light and curtain walls to the designer's maximum size. Entire walls can be designed as glazed window frames to maximize visual supervision in day rooms, recreation yards and visitation areas. These frames, as well as those in control rooms, can be additionally reinforced with heat treated bar or security wire mesh.

Our standard primer is specially formulated to withstand the rigors of the typical construction site. We also focus on preventing grout leaks by first covering hardware preps and screw holes with standard grout protection, then caulking them for double protection.



**Flexibility and
superior quality
lead to on-time
submittal drawings
and deliveries
to assure
successful
installations.**



Detention Hollow Metal Finishes

Trussbilt uses a high solid, low V.O.C. two-part urethane primer specially formulated for us by Four Seasons, a Diamond Vogel company. Our five stage cleaning system for frames uses a high pressure wash and phosphatizing station complete with an RO seal/rinse final stage. Doors are pressure sanded over the entire surface to ensure 100% primer adhesion.

Trussbilt recommends that all exterior doors and frames be fabricated using A60 galvanized steel. Galvanized steel has been successfully used by the auto industry for many years. For highly corrosive conditions our stainless steel series 409 is recommended, and series 304 is available.

Code and Specification Compliance Testing

Trussbilt pioneered many of the standard test methods used today. We belong to both HMMA and ASTM and comply with the following standards:

- **HMMA 863**
Guide Specifications for Detention Security Hollow Metal Doors and Frames
- **ASTM F 2322**
Standard Test Methods for Physical Assault on Vertical Fixed Barriers for Detention and Correctional Facilities
- **ASTM F 1450**
Standard Test Methods for Hollow Metal Swinging Door Assemblies for Detention and Correctional Facilities (Passes Security Level 1)
 - Door Assembly Impact Load Test
 - Door Static Load Test
 - Door Rack Test
 - Door Edge Crush Test
- **ASTM F 1592**
Standard Test Methods for Detention Hollow Metal Vision Systems (Passes Security Level 1) – Single Light and Multi Light Assembly Impact Test
- **Fire rating with UL and ITS, Intertech Testing Services**
- **Bullet Resistance Test UL-752**