

**SEAMLESS FIBERGLASS WALK-IN COOLER & FREEZER**

URETHANE INSULATION COMPLETELY ENCASED IN FIBERGLASS.  
INSULATION TO BE RIGID CLOSED CELL POLYISOCYANURATE FOAM  
CHEMICALLY BONDED TO INTERIOR AND EXTERIOR FIBERGLASS TO  
FORM A ONE-PIECE STRUCTURE.

WALLS: 0.15" EXTERIOR AND 0.15" INTERIOR REINFORCED FIBERGLASS  
4-3/16" ROOF: 0.15" EXTERIOR AND 0.15" INTERIOR REINFORCED FIBERGLASS  
6-1/2" ROOF: 0.31" EXTERIOR AND 0.25" INTERIOR REINFORCED FIBERGLASS  
CONSISTING OF:  
FIBERGLASS SPRAY GUN ROVING (207 YARDS PER POUND YIELD) IN GENERAL PURPOSE  
POLYESTER RESIN AT 33%-34% GLASS CONTENT WITH NO FILLER.  
4" 1.5 OZ WOVEN GLASS CLOTH

FRAME IS PERMANENTLY ATTACHED TO FIBERGLASS STRUCTURE WITH FIBERGLASS  
WRAPPED OVER THE STEEL ANGLES

THE STRUCTURE CAN BE FIXED TO AN ENGINEERED CEMENT PAD WITH ANCHOR BOLTS.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE  
REQUIREMENTS OF THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) AND  
2018 INTERNATIONAL BUILDING CODE (IBC) WITH TEXAS REVISIONS.

THIS APPROVAL IS FOR THE WALK-IN COOLER AS SHOWN ON THESE  
APPROVED DRAWINGS.  
UPLIFT, OVERTURNING, FOUNDATIONS, FLOOR SLAB AND OTHER ELEMENTS  
SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER AND  
REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING  
BUILDING DEPARTMENT.

ALL ELECTRICAL, MECHANICAL DETAILS AND FIRE RATING PROVISIONS ARE  
NOT PART OF THIS APPROVAL AND SHALL BE PREPARED BY A REGISTERED  
PROFESSIONAL ENGINEER AND REVIEWED BY CORRESPONDING BUILDING  
DEPARTMENT.

STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION A-36  
GALVANIZED WITH A COATING DESIGNATION OF G90 MINIMUM.  
MIN. Y.S. = 51,151 PSI.

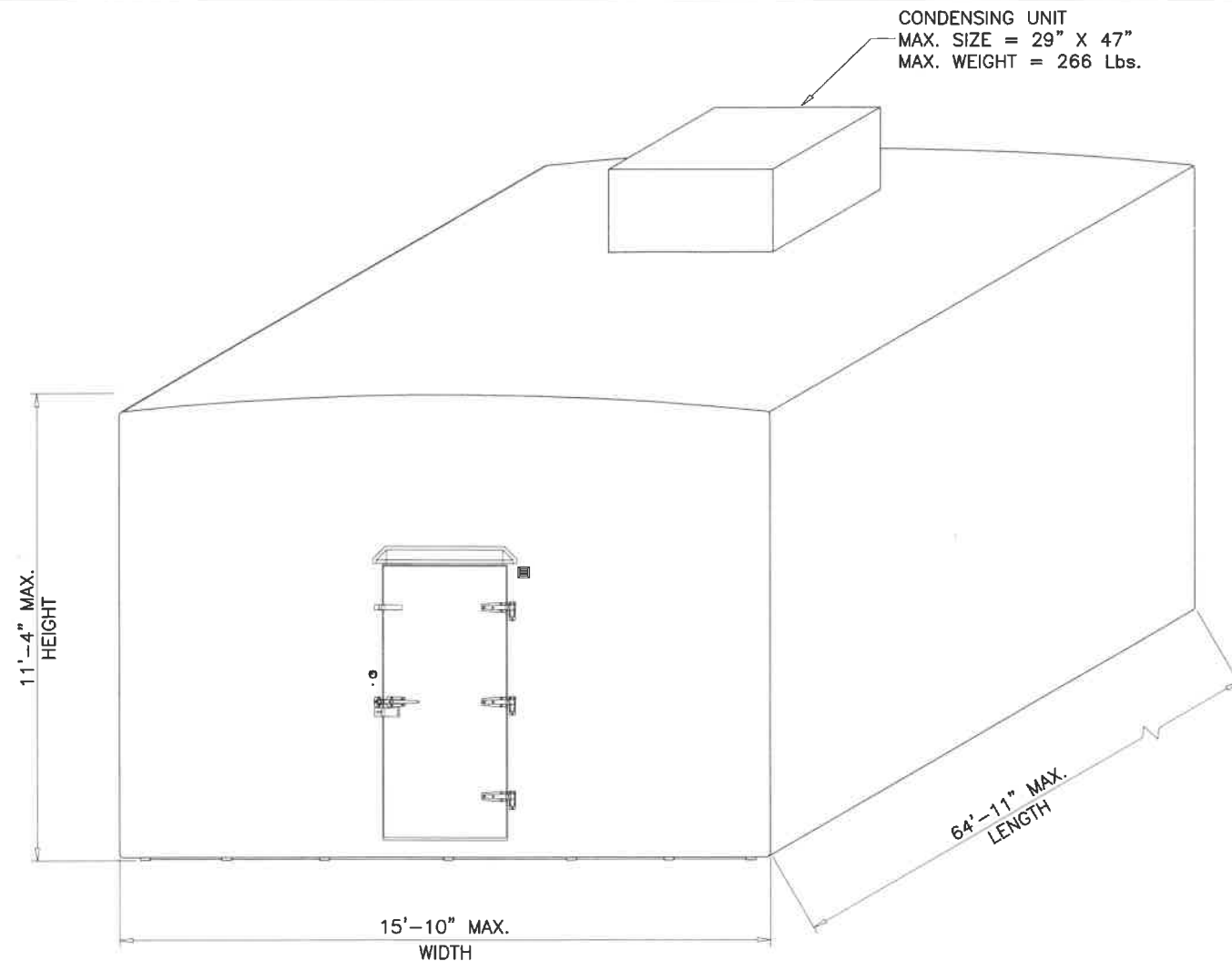
POLYURETHANE SHALL BE RIGID FOAM MIN. DENSITY #2 C.F.  
MAX. FLAME SPREAD RATING < 25 AS PER ASTM E-84  
SMOKE DEVELOPED INDEX < 185  
SPONTANEOUS-IGNITION TEMPERATURE: 600-800F

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT  
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE  
REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE WITH TEXAS REVISIONS.

DESIGN IS BASED ON TESTING IN ACCORDANCE WITH FLORIDA BUILDING CODE  
LARGE MISSILE IMPACT TEST, TAS 201-94.  
CYCLIC WIND PRESSURE TEST, TAS 203-94.  
STATIC AIR PRESSURE TEST, TAS 202.  
ASTM E72 FOR COMPONENT RACKING  
24 HOUR GRAVITY LOAD TEST  
(AIR AND WATER INFILTRATION WERE NOT TESTED)

THIS PRODUCT APPROVAL DOCUMENT IS GENERIC AND DOES NOT PROVIDE  
INFORMATION FOR A SITE SPECIFIC PROJECT.

WALK-IN TO BE INSTALLED AS PER MANUFACTURER'S INSTALLATION  
INSTRUCTIONS.



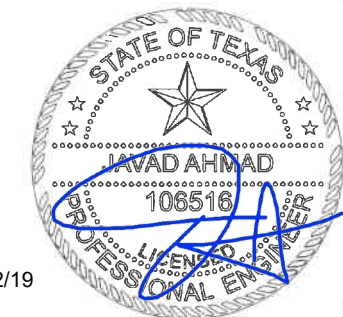
CONDENSING UNIT  
MAX. SIZE = 29" X 47"  
MAX. WEIGHT = 266 Lbs.

**TYPICAL ELEVATION**

5" MIN. THK. WALLS  
4-3/16" MIN. THK. ROOF  
4-3/8" MIN. THK. DOOR LEAF  
MAXIMUM DESIGN LOAD RATING = + 70.0 PSF  
WALK-IN MAX. LENGTH = 64'-11" - 70.0 PSF  
WALK-IN MAX. WIDTH = 9'-5"  
WALK-IN MAX. HEIGHT = 11'-4"

5" MIN. THK. WALLS  
6-1/2" MIN. THK. ROOF  
4-3/8" MIN. THK. DOOR LEAF  
MAXIMUM DESIGN LOAD RATING = + 70.0 PSF  
WALK-IN MAX. LENGTH = 64'-11" - 70.0 PSF  
WALK-IN MAX. WIDTH = 15'-10"  
WALK-IN MAX. HEIGHT = 11'-4"

MAX. RACKING LOAD (ROOF PANELS) = 325 Lbs./LIN. FT. OF PANEL LENGTH  
MAX. RACKING LOAD (WALL PANELS) = 640 Lbs./LIN. FT. OF PANEL LENGTH



Sealed 3/12/19

**af c**

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978

**Polar King**  
INTERNATIONAL INC.  
4424 New Haven Ave.  
Fort Wayne, IN 46803  
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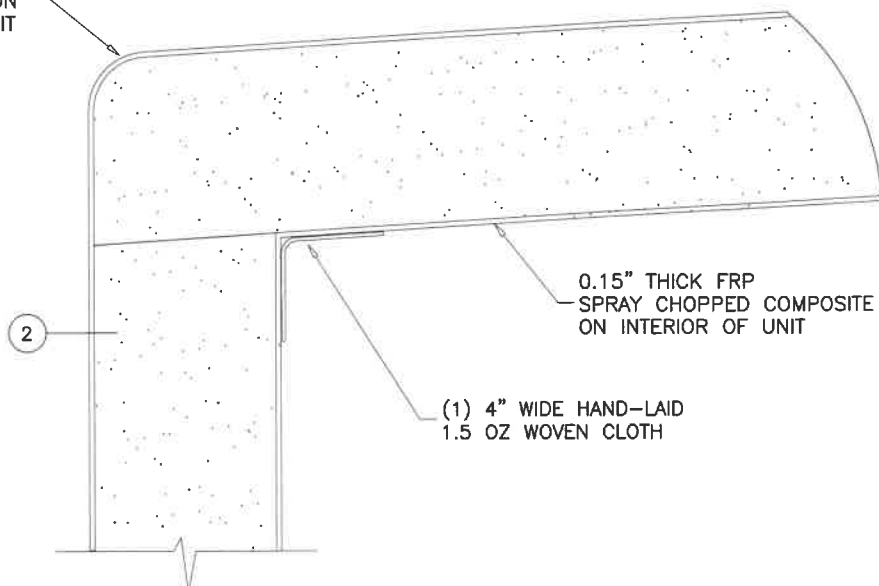
FIBERGLASS WALK-IN COOLER @ FREEZER

revisions:  
no. date by description  
A 02.21.19 by description UPDATED TO 2018 IBC

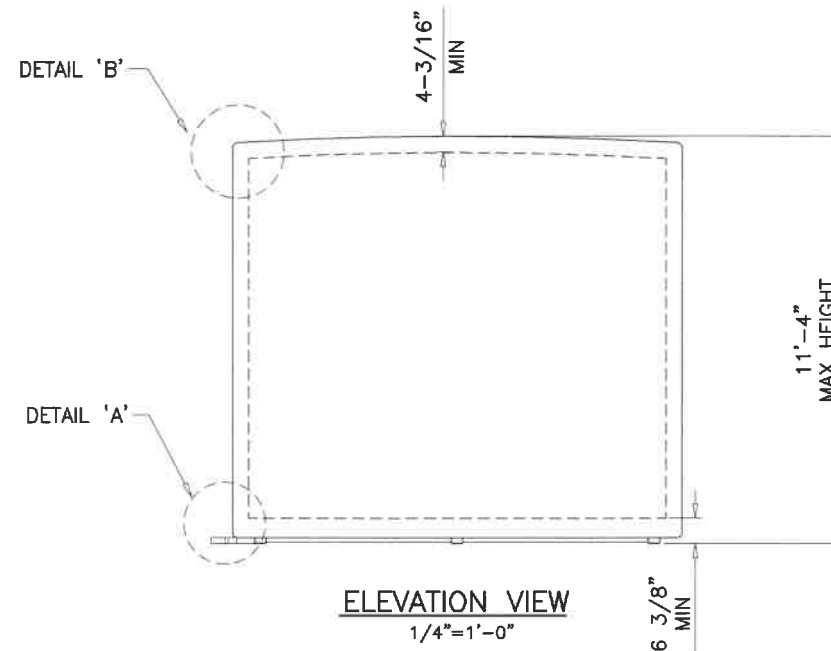
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drawing no.  
**17-13**  
sheet 1 of 7

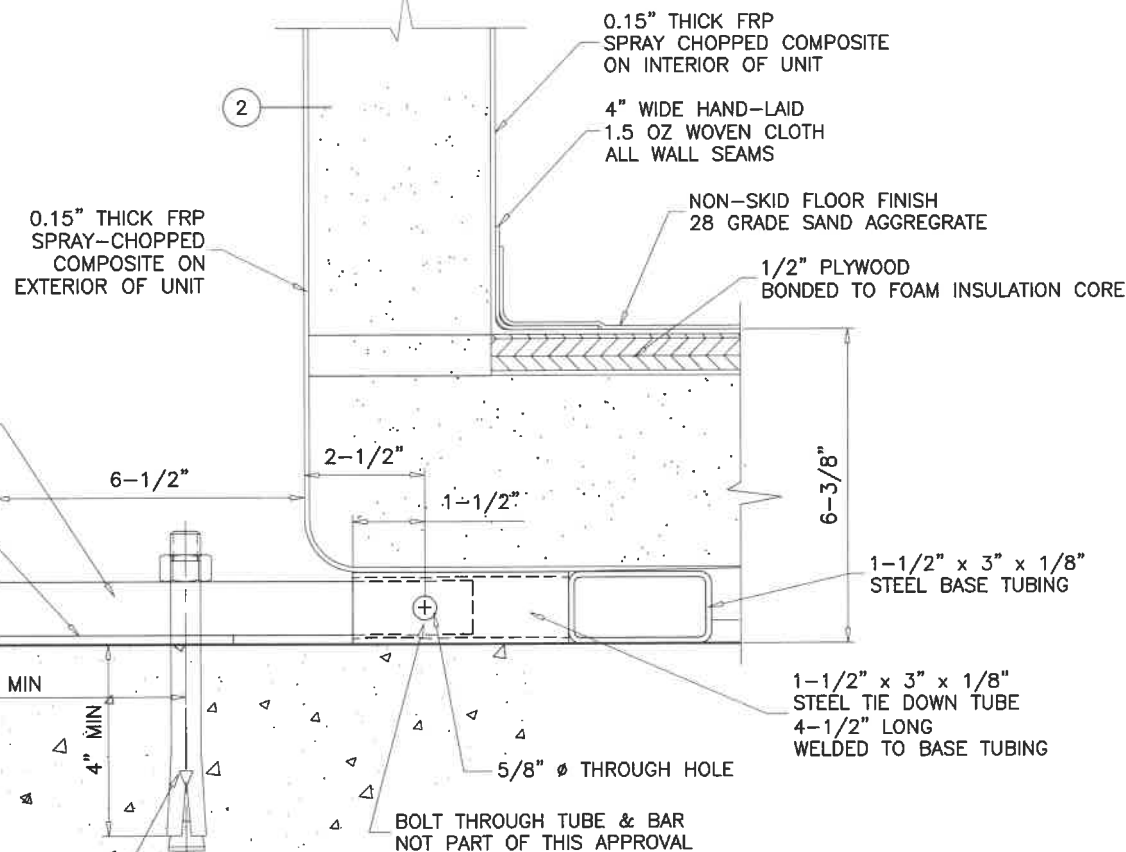
0.15" THICK FRP  
SPRAY-CHOPPED  
COMPOSITE ON  
EXTERIOR OF UNIT



**DETAIL 'B'**  
1/4" = 1"

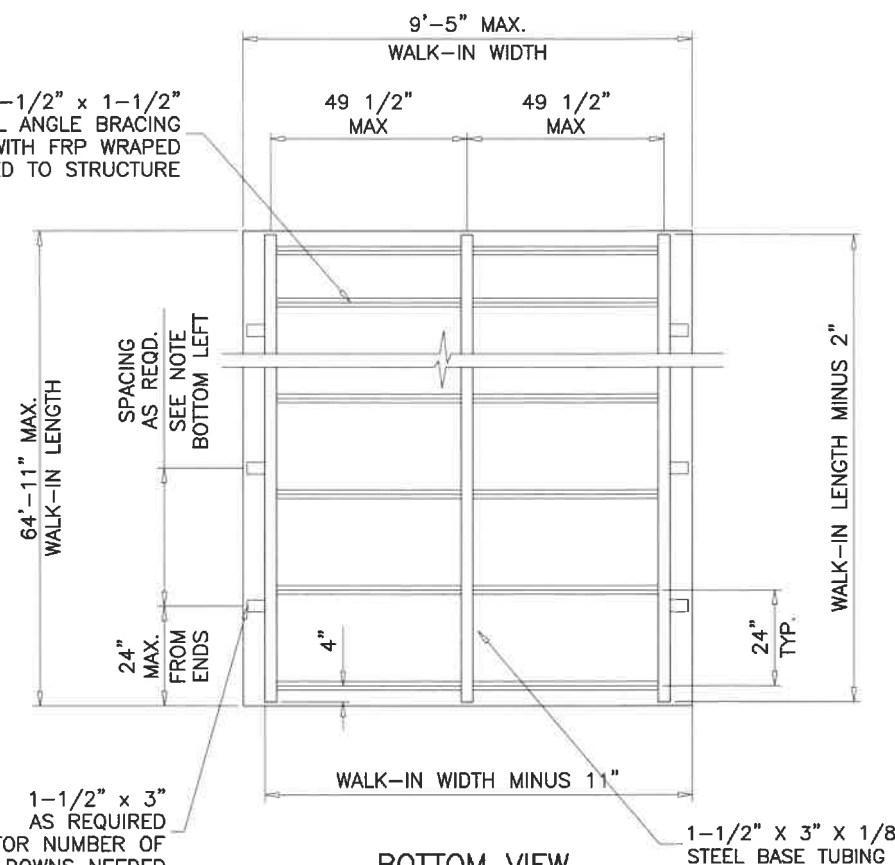


**ELEVATION VIEW**  
1/4" = 1'-0"



**DETAIL 'A'**  
1/4" = 1"

1-1/2" x 1-1/2"  
STEEL ANGLE BRACING  
WITH FRP WRAPPED  
AND ATTACHED TO STRUCTURE



**BOTTOM VIEW**  
1/4" = 1'-0"  
(BUILT-IN STEEL FRAME AT BASE)

ANCHOR BARS  
INTO STEEL TUBES

5" x 1/4" PLATE  
STEEL (ASTM A36)

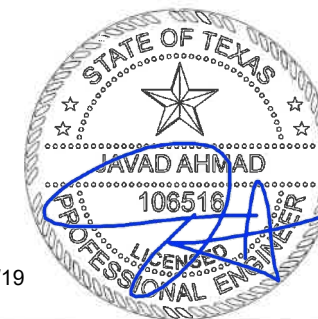
INSTALLATION FASTENERS  
NOT PART OF THIS APPROVAL

WALK-IN COOLER INSTALLATION BY OTHERS  
FLOOR SLAB AND SLAB FASTENERS SHALL BE DESIGNED  
BY A REGISTERED PROFESSIONAL ENGINEER AND REVIEWED  
BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING  
BUILDING DEPARTMENT.

5" THICK WALLS  
4-3/16" THICK ROOF

FOR WALK-INS UPTO 9'-5" WIDE

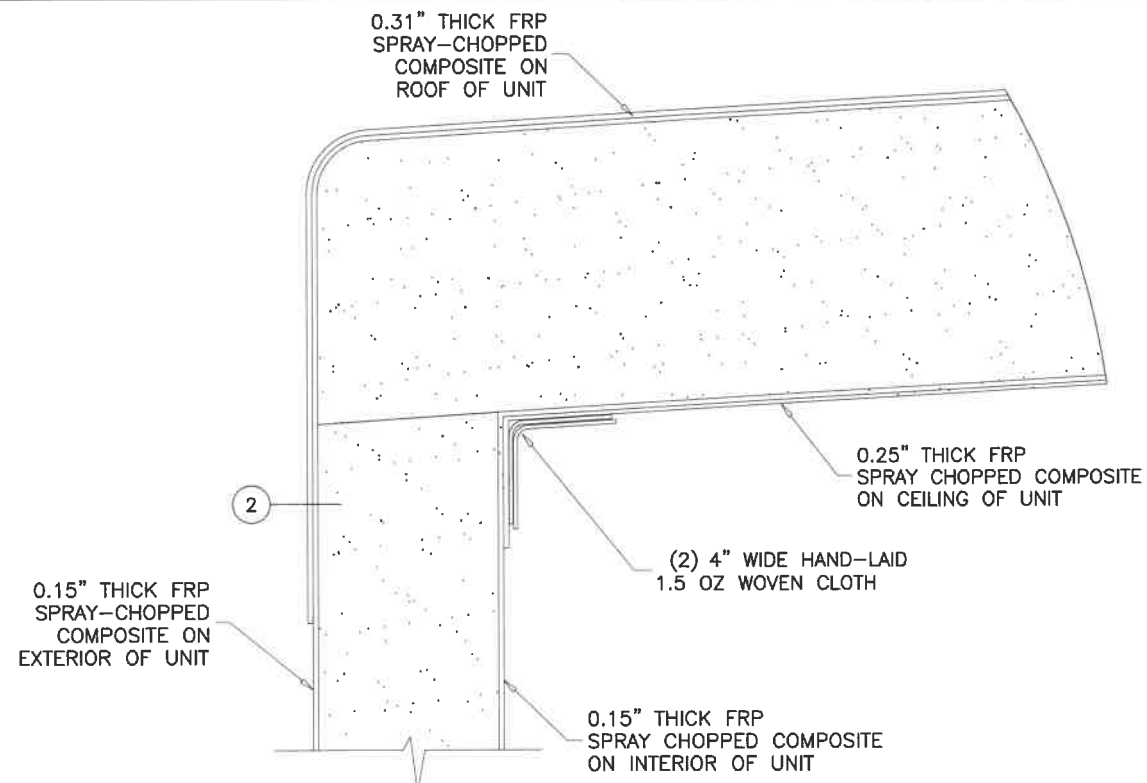
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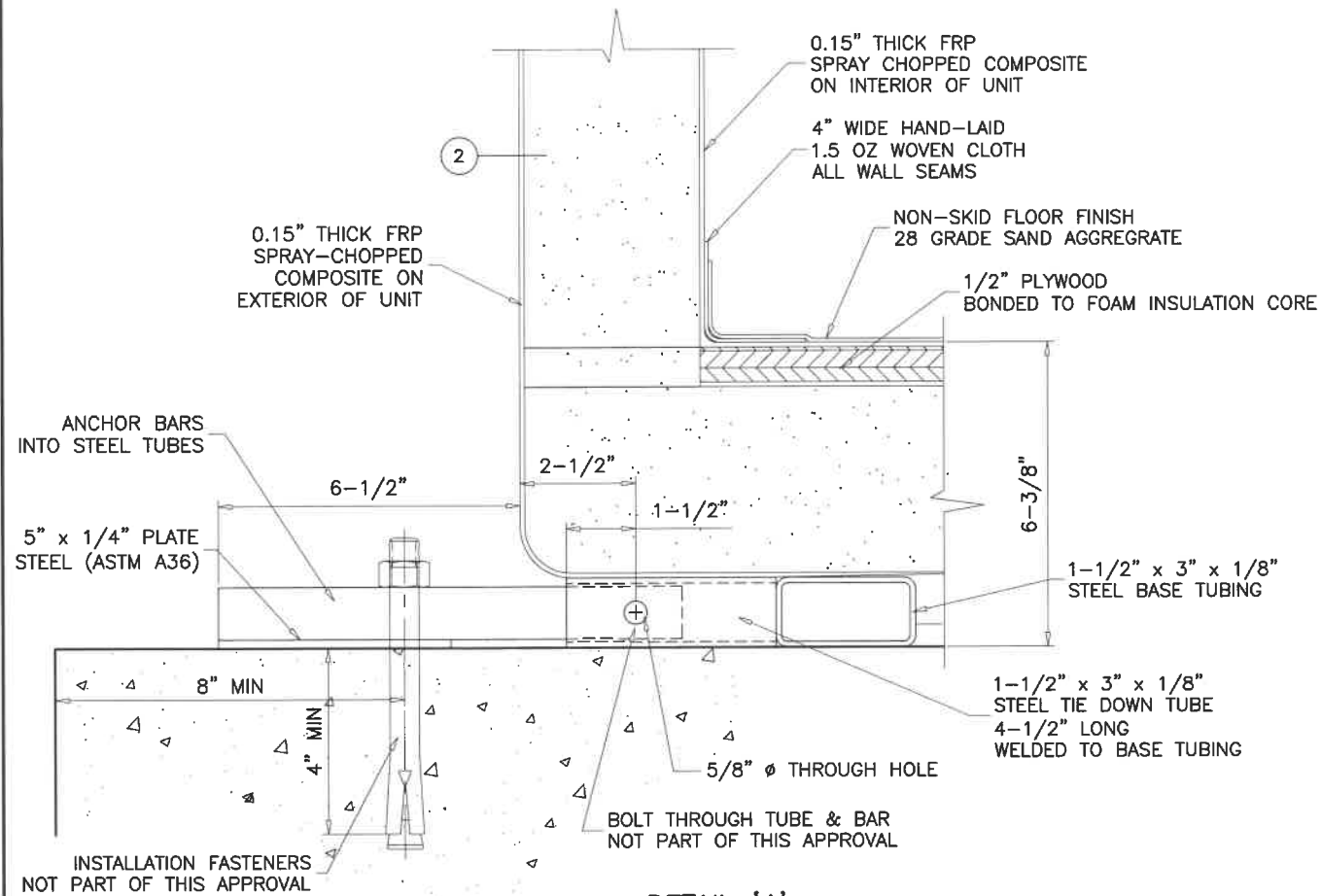
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COOLER\17-13PK

FIBERGLASS WALK-IN COOLER @ FREEZER  
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| revisions:  | no       | date | by | description |
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| sheet       | 2 of 7   |      |    |             |

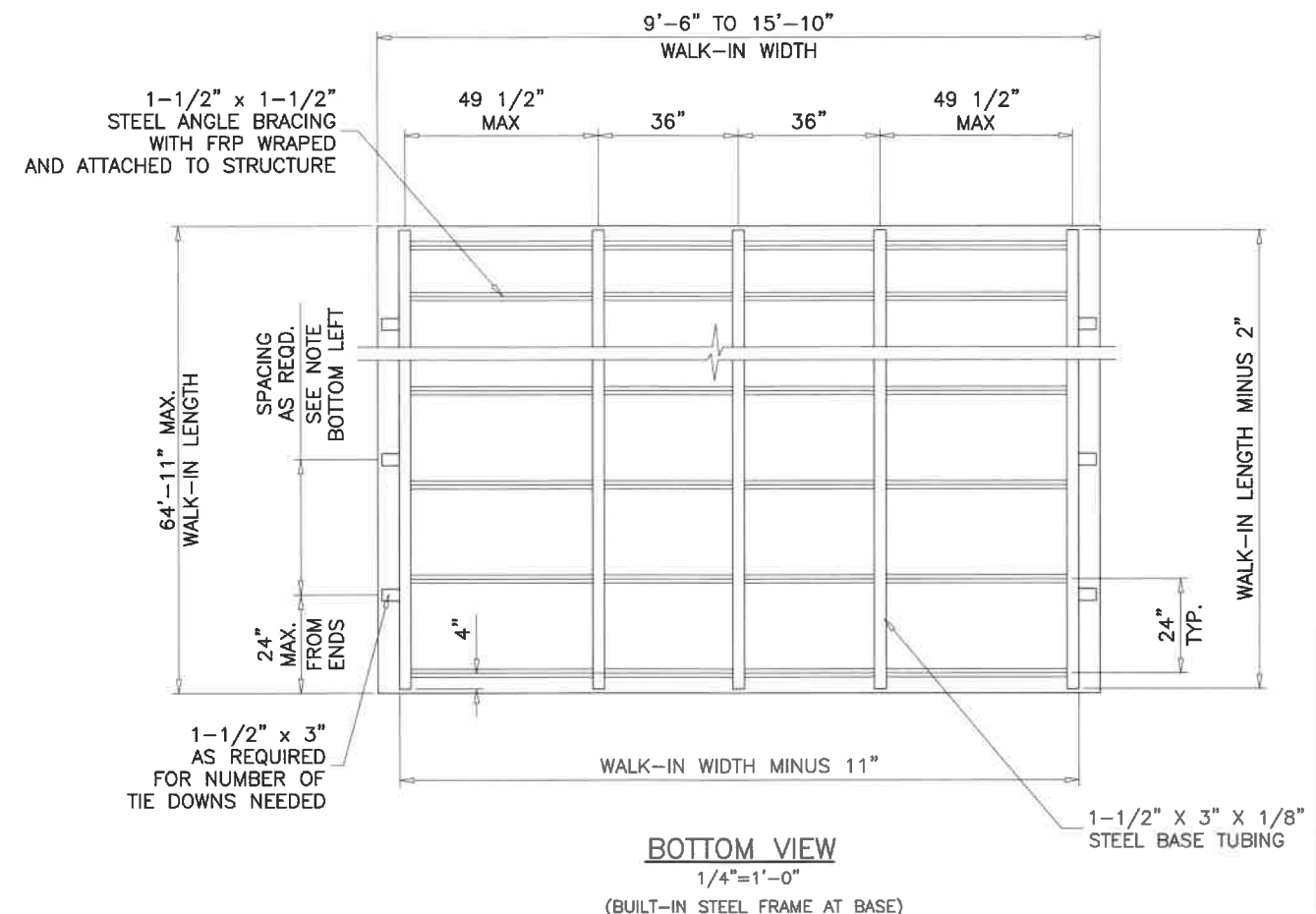
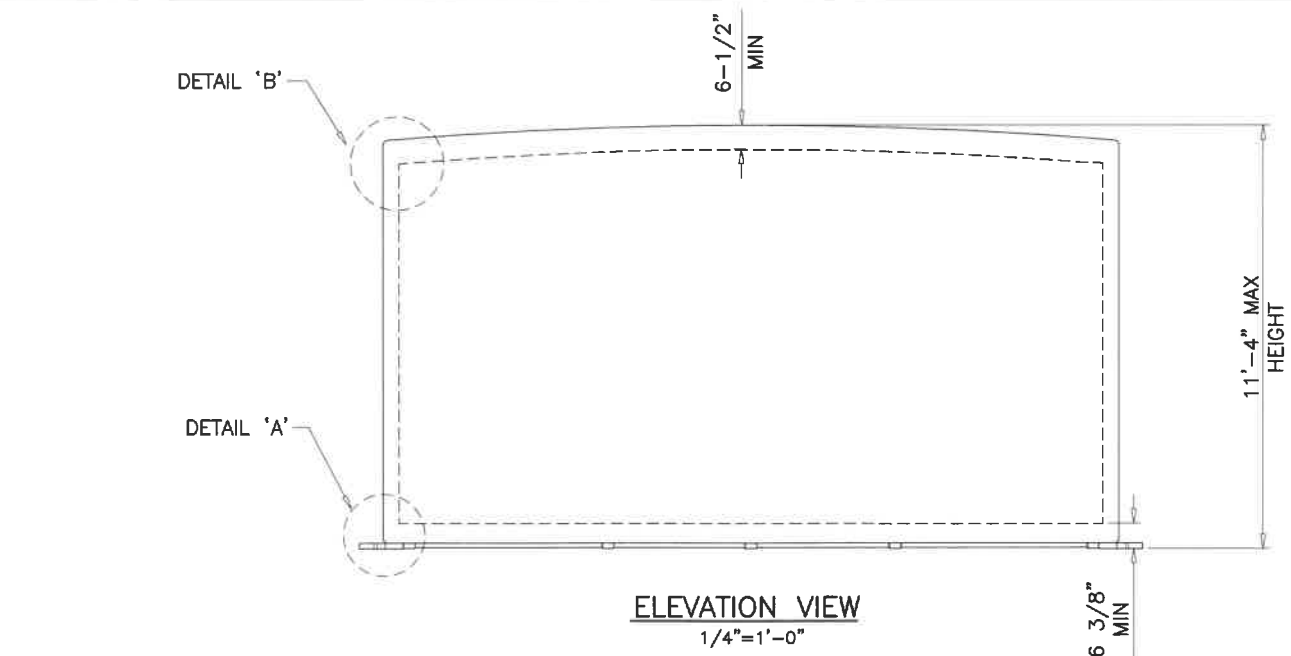


**DETAIL 'B'**  
1/4" = 1"



**DETAIL 'A'**  
1/4" = 1"

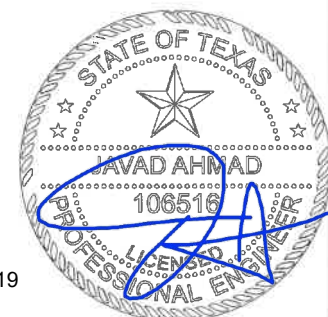
WALK-IN COOLER INSTALLATION BY OTHERS FLOOR SLAB AND SLAB FASTENERS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER AND REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT.



5" THICK WALLS  
6-1/2" THICK ROOF

FOR WALK-INS 9'-5" TO 15'-10" WIDE

Sealed 3/12/19



**af c**

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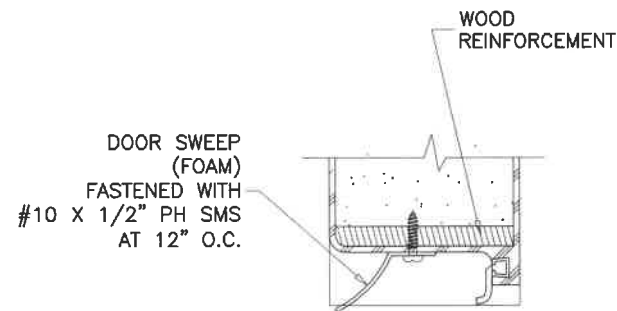
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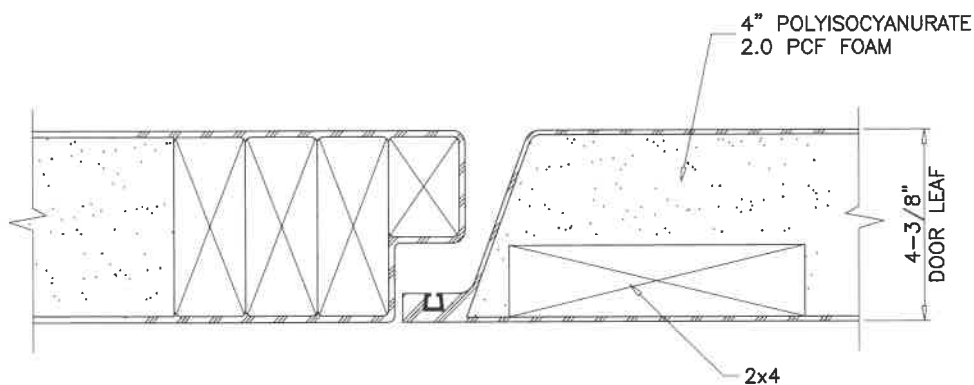
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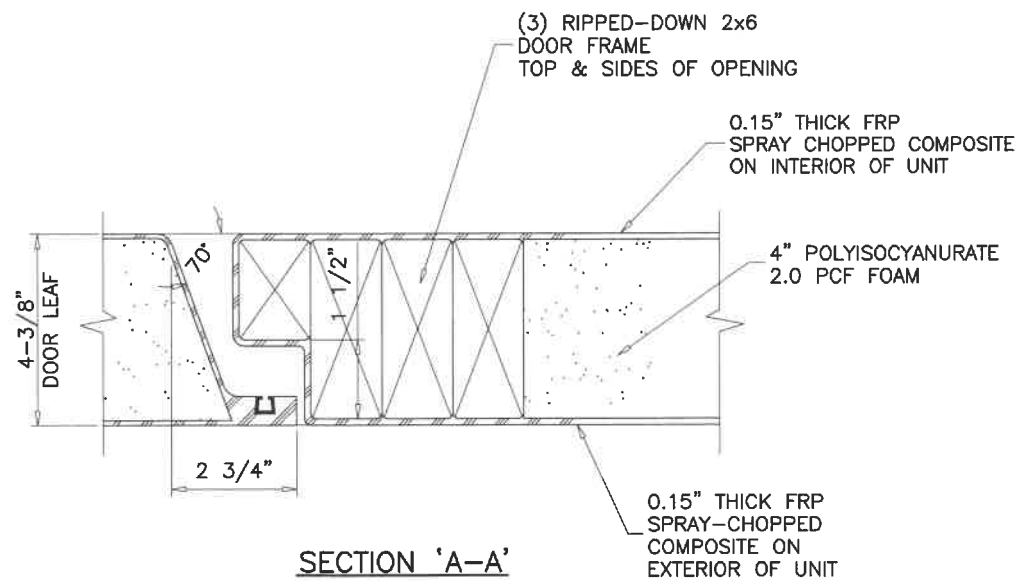
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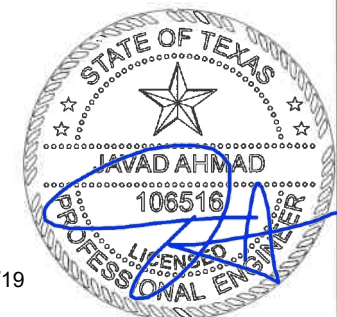
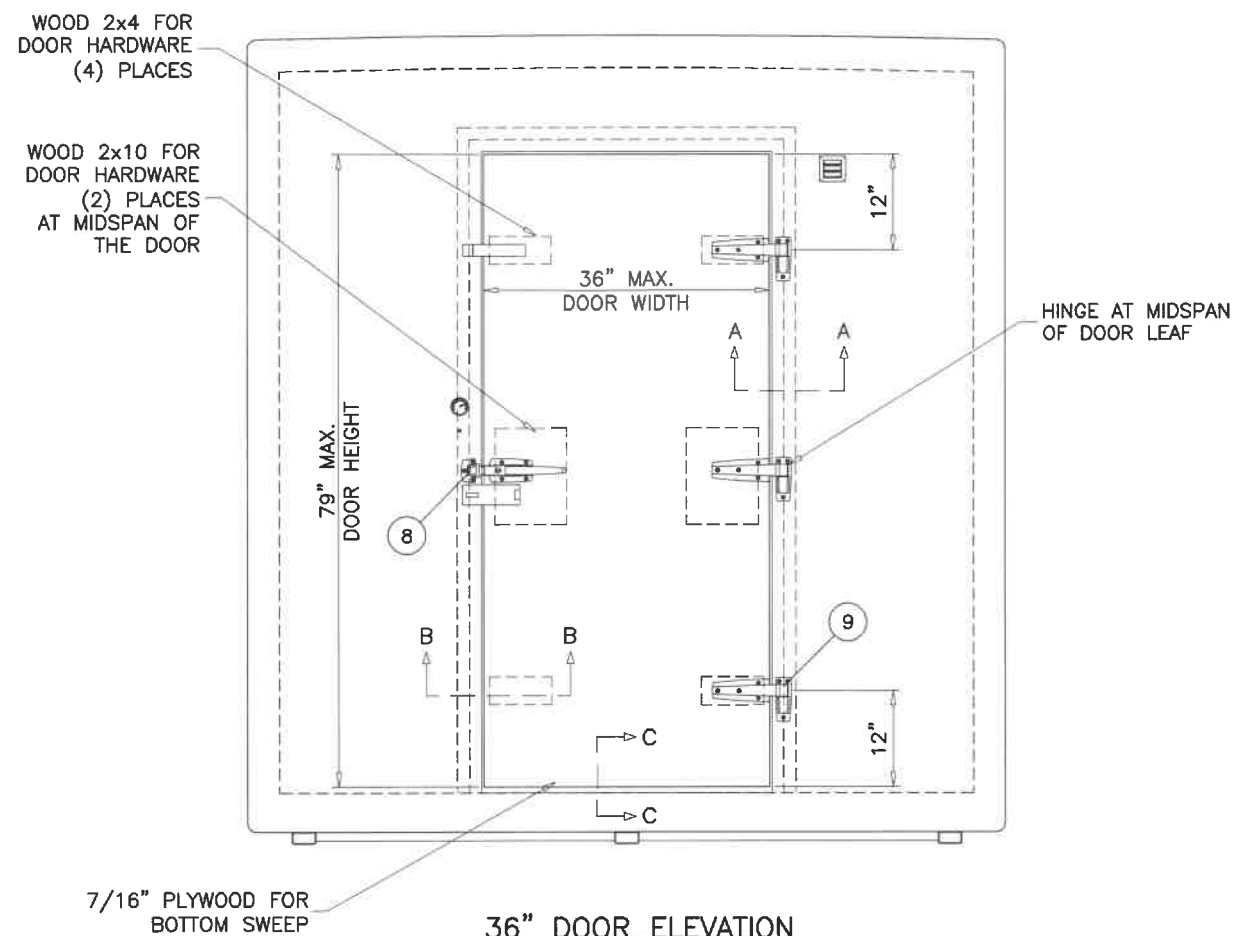
**SECTION 'C-C'**  
1/4" = 1"



**SECTION 'B-B'**  
1/4" = 1"



**SECTION 'A-A'**  
1/4" = 1"



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**afc**

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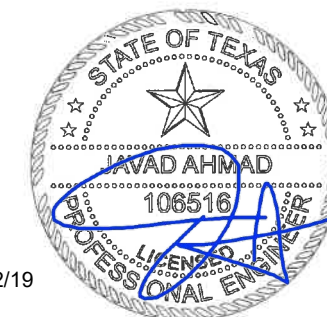
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sheet 4 of 7



| ITEM # | PART #       | REQD.    | DESCRIPTION                                      | MATERIAL         | MANF./SUPPLIER/REMARKS                 |
|--------|--------------|----------|--|------------------|--|
| 1      | -            | -        | INTERIOR AND EXTERIOR SKIN                       | FIBERGLASS       | SEE SHEET 1                            |
| 2      | -            | -        | WALK-IN INSULATION                               | POLYISOCYANURATE | ELFOAM, (SEE SHEET 1)                  |
| 3      | -            | -        | FLOOR SURFACE COATING                            | SAND AGGREGATE   | 28 GRADE                               |
| 4      | -            | -        | FLOOR BASE                                       | PLYWOOD          | 1/2" THK.                              |
| 4A     | -            | -        | DOOR BASE  | PLYWOOD          | 7/16" THK.                             |
| 5      | -            | -        | DOOR GASKET                                      | -                | JEAN'S EXTRUSIONS, PLASTIC WITH MAGNET |
| 6      | -            | 1        | DOOR TRIM  | ST. STEEL        | 20 GA.                                 |
| 7      | -            | 1        | DOOR BOTTOM SWEEP                                | FOAM             | 1/8" RUBBER                            |
| 7A     | #10 X 1/2"   | AS REQD. | DOOR SWEEP FASTENERS                             | ST. STEEL        | PH SMS                                 |
| 8      | 0056         | 1        | DOOR LATCH                                       | ST. STEEL        | KASON                                  |
| 8A     | 1/4 X 1-3/4" | AS REQD. | LATCH FASTENERS                                  | ST. STEEL        | MACHINE HEAD SMS                       |
| 9      | 1245         | 3/ LEAF  | CAM LIFT HINGE                                   | -                | KASON                                  |
| 9A     | 1/4 X 1-3/4" | AS REQD. | CAM HINGE FASTENERS                              | ST. STEEL        | MACHINE HEAD SMS                       |
| 10     | 1277         | 3/ LEAF  | HEAVY DUTY HINGE                                 | -                | KASON                                  |
| 10A    | 1/4 X 1-3/4" | AS REQD. | H.D. HINGE FASTENERS                             | ST. STEEL        | LAG SCREWS                             |
| 11     | VS2000       | 1        | DOOR CLOSER                                      | ST. STEEL        | DICTATOR                               |
| 11A    | #10 X 3/4"   | AS REQD. | DOOR CLOSER FASTENERS                            | ST. STEEL        | PAN HEAD SMS                           |
| 12     | -            | AS REQD. | ANCHOR BAR                                       | CARBON STEEL     | A36, Fu MIN. = 56 KSI                  |
| 12A    | 5/8" X 4"    | 1 /BAR   | ANCHOR BAR FASTENER                              | -                | GRADE 8 A307 STEEL BOLT/NUT/WASHER     |
| 13     | -            | AS REQD. | SHIM PLATE (5" X 9" X 1/4")                      | CARBON STEEL     | A36, Fu MIN. = 56 KSI                  |
| 14     | -            | AS REQD. | BASE FRAME (1-1/2" X 3" X 1/8")                  | CARBON STEEL     | A36, Fu MIN. = 56 KSI                  |
| 14A    | -            | AS REQD. | TIE DOWN TUBE (1-1/2" X 3" X 1/8" X 4-1/2" LONG) | CARBON STEEL     | A36, Fu MIN. = 56 KSI                  |
| 15     | -            | AS REQD. | ANGLE BRACING (1-1/2" X 1-1/2" X 1/8")           | CARBON STEEL     | A36, Fu MIN. = 56 KSI                  |
| 16     | -            | -        | 2X6 WOOD   | -                | SOUTHERN PINE, CUT DOWN AS NEEDED      |
| 16A    | -            | -        | 2X4 WOOD   | -                | SOUTHERN PINE                          |
| 16B    | -            | -        | 2X10 WOOD  | -                | SOUTHERN PINE                          |



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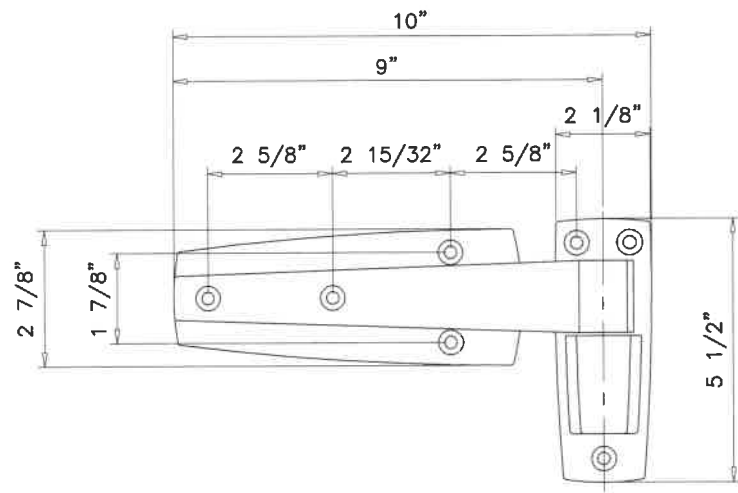
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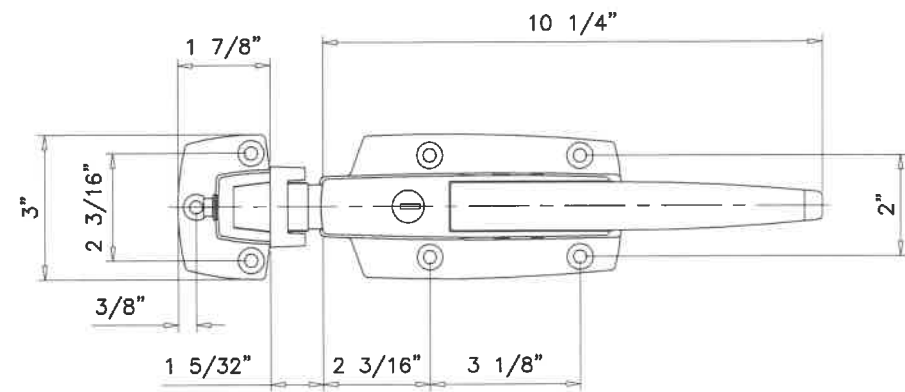
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**17-13**  
 sheet 6 of 7



**KASON 1245 REVERSIBLE CAM-RISE FLUSH HINGE**

POLISHED CHROME POWDER COATED DIE-CAST ZINC  
SELF-LUBRICATING NYLON CAM

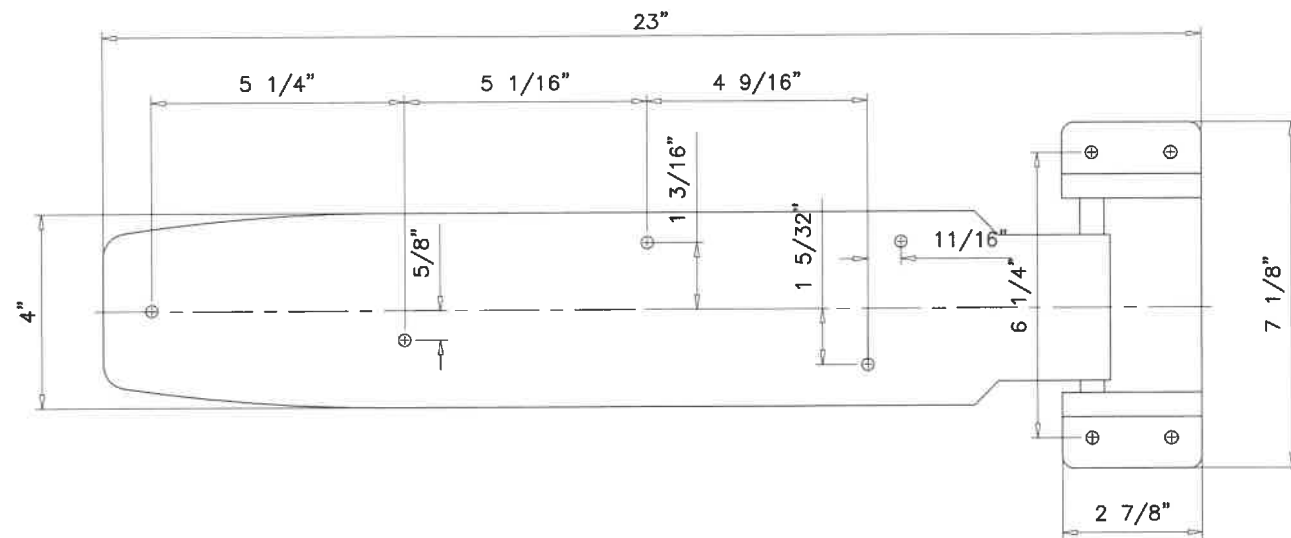
9 HOLES DRILLED AND COUNTERSUNK FOR 1/4" X 2" FH SECURITY SCREWS



**KASON 0056 SAFEGUARD LATCH**

#316 STAINLESS STEEL BODY AND STRIKE HOUSING  
#304 STAINLESS STEEL ROLLER

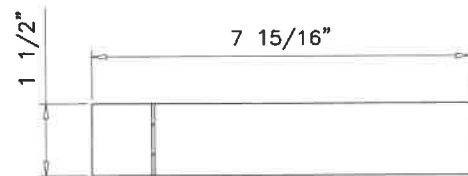
8 HOLES DRILLED AND COUNTERSUNK FOR 1/4" X 2" FLAT HEAD SECURITY SCREWS



**KASON 1277 HEAVY DUTY HINGE**

POLISHED CHROME POWDER COATED DIE-CAST ZINC  
SECURED TO DOOR LEAF WITH 5/16" X 2" HEX HEAD LAG BOLTS  
AND SECURED TO PANEL WITH 3/8" X 3" HEX HEAD LAG BOLTS

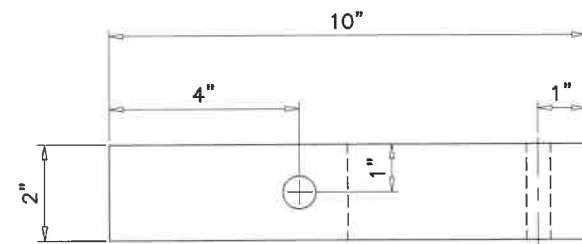
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**DICTATOR VS2000 DOOR CLOSER**

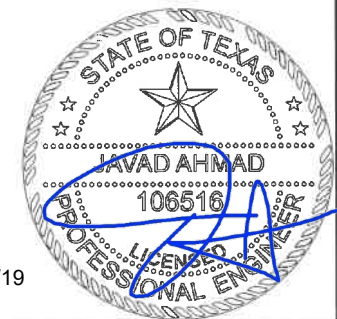
STAINLESS STEEL BODY AND STRIKE HOUSING

13



**ANCHOR BAR**

12



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