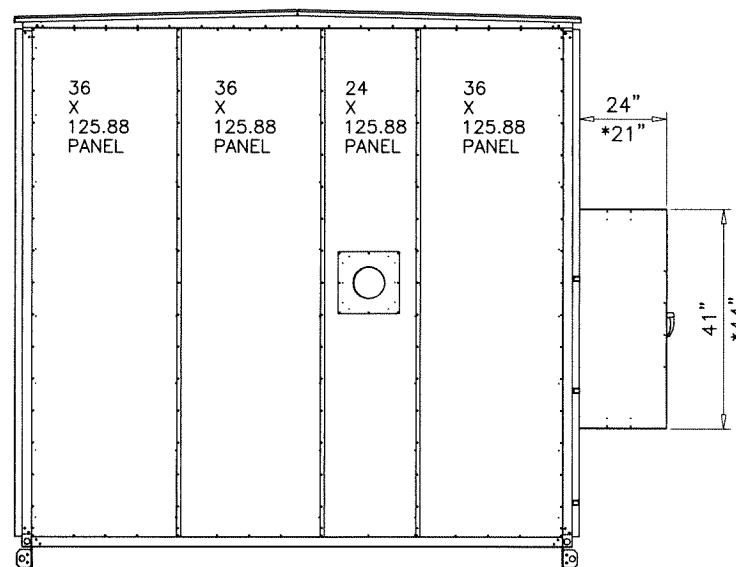


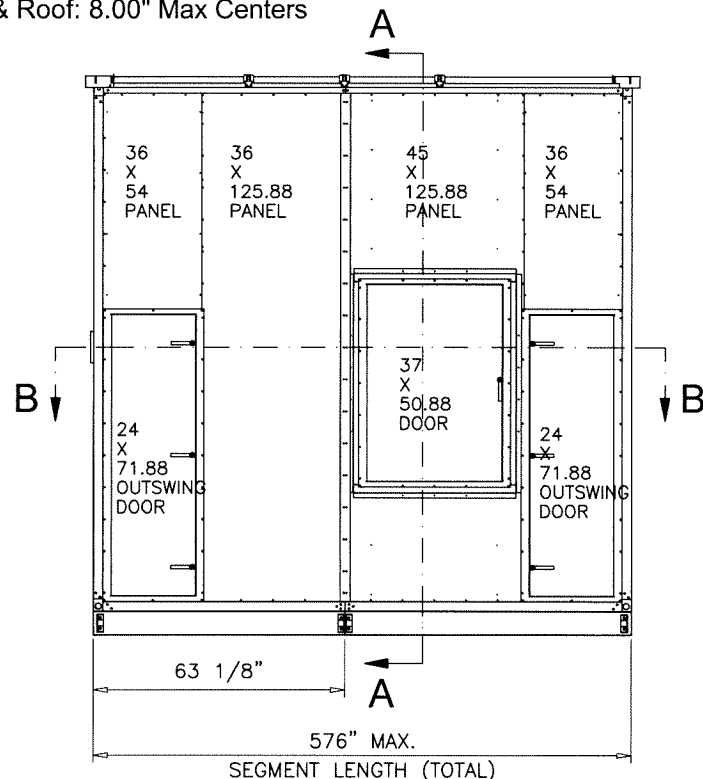
Panels:  
Sides & Ends: 16 Ga Outer & Liner  
Floor & Roof: 18 Ga Outer & Liner

Fasteners:  
Sides Walls: 4.00" Max Centers  
Floor & Roof: 8.00" Max Centers

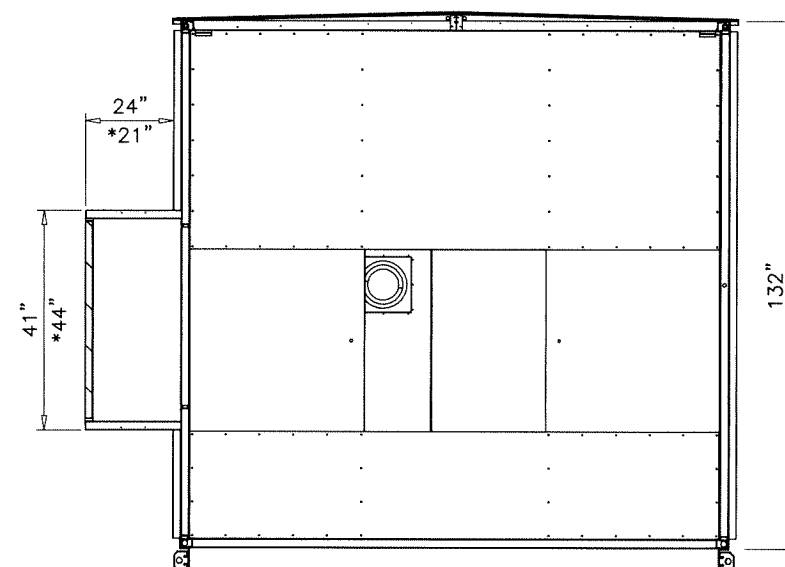
Inside Supports:  
Sides: 4 vertical 16 GA Hat Channel per side 086-02108-358  
Ends: 3 vertical 12 GA Hat Channel per end 086-02108-869



**SIDE ELEV.**



**FRONT ELEV.**

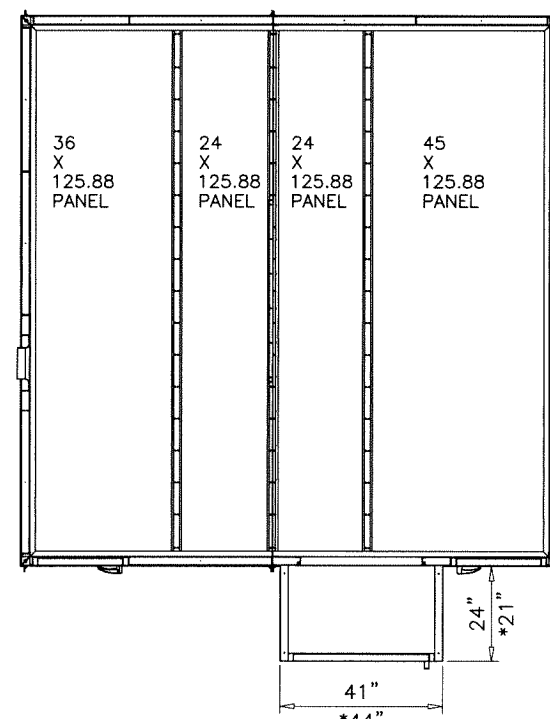


**SECTION A-A**

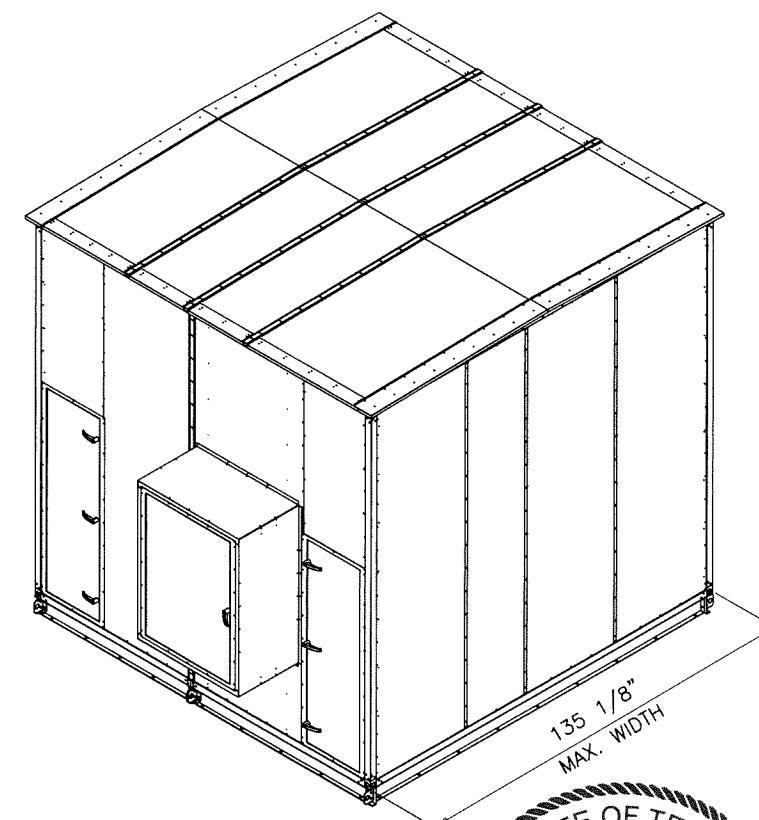
**GENERAL NOTES**

- 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).
- STRUCTURAL STEEL SHALL CONFORM TO ASTM DESIGNATION A-36 AND STEEL SHEET SHALL CONFORM TO ASTM DESIGNATION A-653, GALVANIZED WITH A COATING DESIGNATION OF G90. MIN. Fy = 48,380 PSI.
- ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- ELECTRICAL AND MECHANICAL DETAILS ARE NOT PART OF THIS APPROVAL.
- POLYURETHANE SHALL BE RIGID FOAM MIN. DENSITY #2 C.F.
- MAX. FLAME SPREAD RATING = 5 AS PER ASTM E-84. SMOKE DEVELOPED INDEX = 205. SPONTANEOUS-IGNITION TEMPERATURE = 869°F.
- ALL STEEL TO BE SHOP PRIMED BEFORE ASSEMBLY.
- MIN. SOIL BEARING CAPACITY = 2500 PSF.
- A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2018 IRC/IBC.
- ALTERNATIVE CONSTRUCTED MOTOR CONTROL ENCLOSURE SEE SHEET 17 FOR DETAILS.

| ALLOWABLE DESIGN LOAD |          |          |
|-----------------------|----------|----------|
| COMPONENT             | POSITIVE | NEGATIVE |
| WALL                  | 65 PSF   | 65 PSF   |
| ROOF (WIDTH ≤ 90")    | 65 PSF   | 65 PSF   |
| ROOF (WIDTH > 90")    | 48.7 PSF | 48.7 PSF |

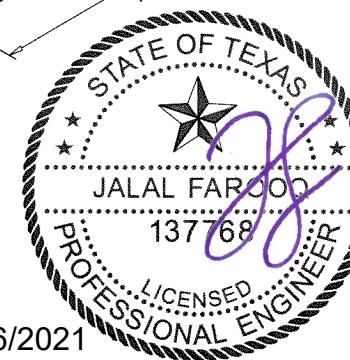


**SECTION B-B  
PLAN VIEW**



ROOF PANELS AND FLOOR PANELS ARE SAME LENGTH IN APPROVAL.

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| no | date     | description             |
|----|----------|-------------------------|
| A  | 06.23.21 | UPDATED TO 2018 IRC/IBC |

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| date:    | 11-19-13   |
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| dr. by:  | HAMID      |
| chk. by: |            |

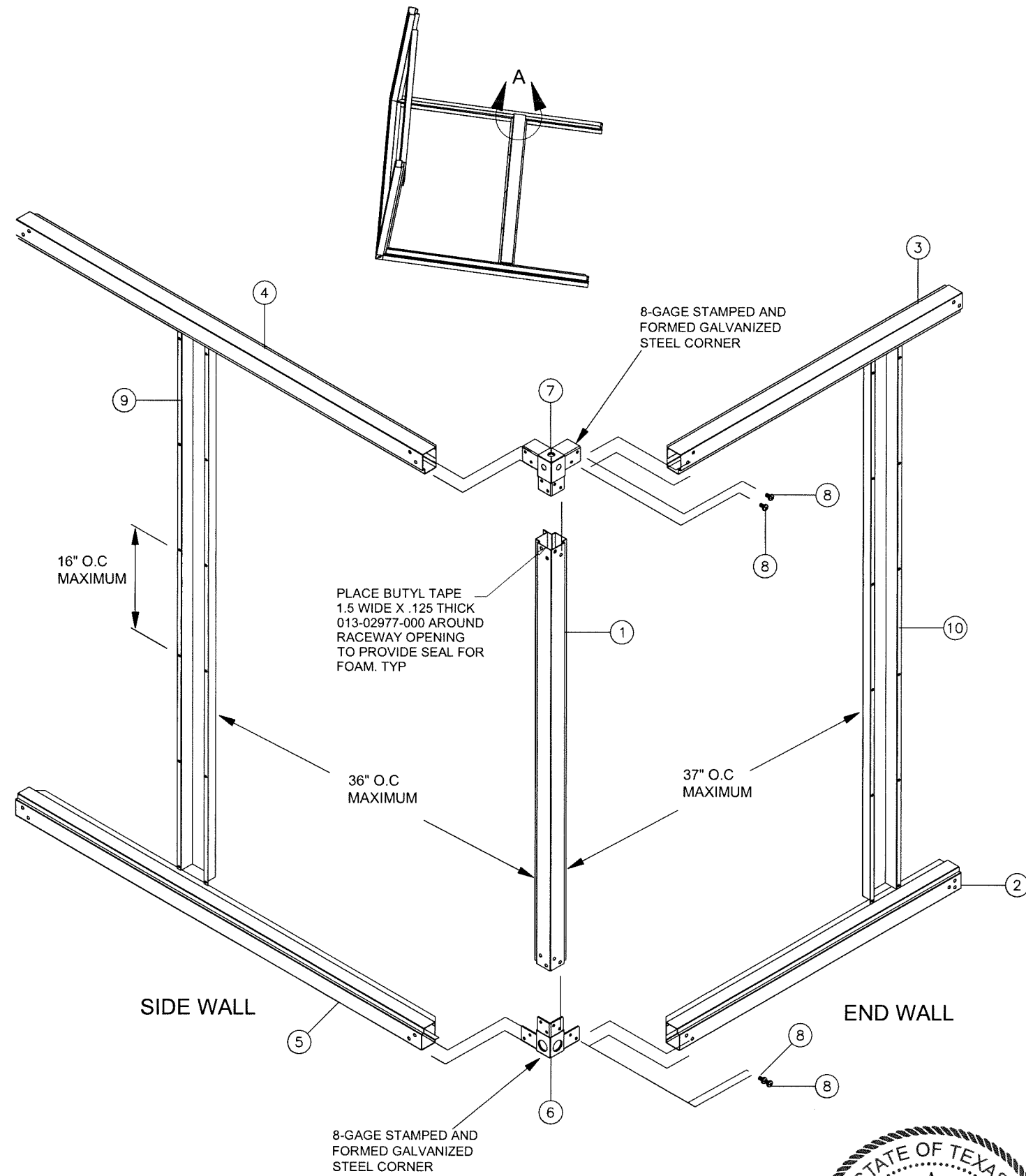
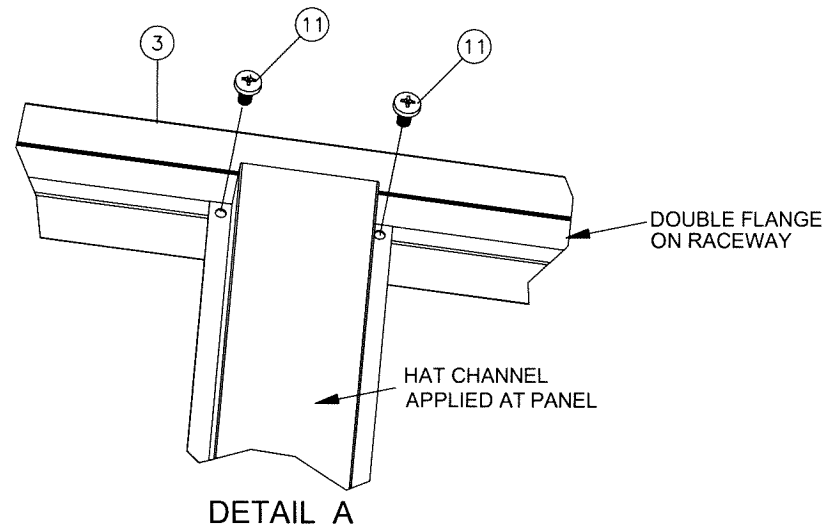
drawing no.  
**13-06**  
sheet 1 of 17

COOLERY 13-06YIC

**Corner Assembly Instructions:**

- 1) Attach DOA Raceway (2) with corner connector (6) using hardware (8) - 2 Screws
- 2) Attach End Raceway (5) with corner connector (6) using hardware (8) - 2 Screws
- 3) Attach Vertical Raceway (1) to corner connector (6) using hardware (8) - 4 Screws
- 4) Attach Corner connector (7) to vertical raceway (1) using hardware (8) - 4 Screws
- 5) Attach DOA Raceway (3) to corner connector (7) using hardware (8) - 2 Screws
- 6) Attach End Raceway (4) to corner connector (7) using hardware (8) - 2 Screws
- 7) Attach Side Hat Channel (9) to Upper and Lower Raceway (4) & (5) Using Hardware (11) - 4 Screws
- 8) Attach Front Hat Channel (10) to Upper and Lower Raceway (2) & (3) Using Hardware (11) - 4 Screws

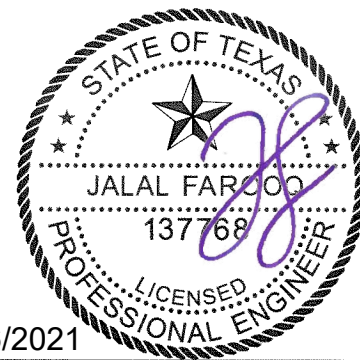
Three other corners are attached in the same manner.



| Parts List |     |   |
|------------|-----|---|
| ITEM       | QTY | DESCRIPTION   |
| 1          | 1   | Vertical Raceway  |
| 2          | 1   | FIA Bottom Raceway                                      |
| 3          | 1   | FIA Top Raceway   |
| 4          | 1   | End Top Raceway   |
| 5          | 1   | End Bottom Raceway                                      |
| 6          | 1   | Bottom Corner Assembly                                  |
| 7          | 1   | Top Corner Assembly                                     |
| 8          | 6   | Screw, hex socket button head 3/8-16 x 3/4" zinc plated |
| 9          | 2   | Side Wall Hat Channel                                   |
| 10         | 2   | End Wall Hat Channel                                    |
| 11         | 2   | Screw, panhead, 1/4-14x1" zinc plated                   |

**CORNER ASSEMBLY  
& INTERNAL FRAMING**

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 COOLER\13-06YIC

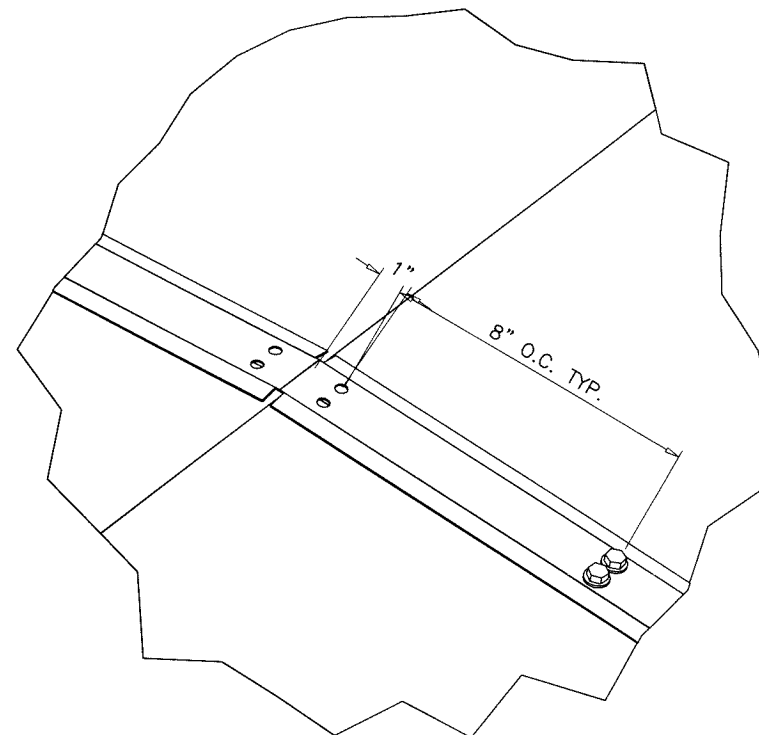
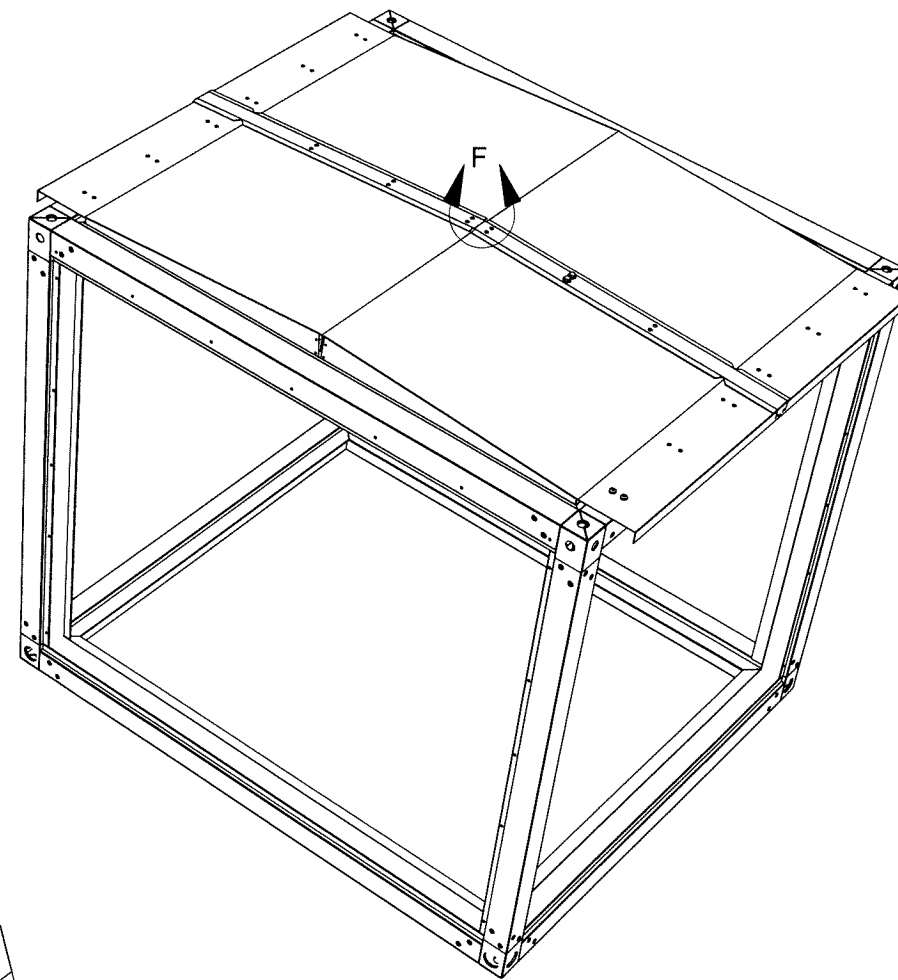
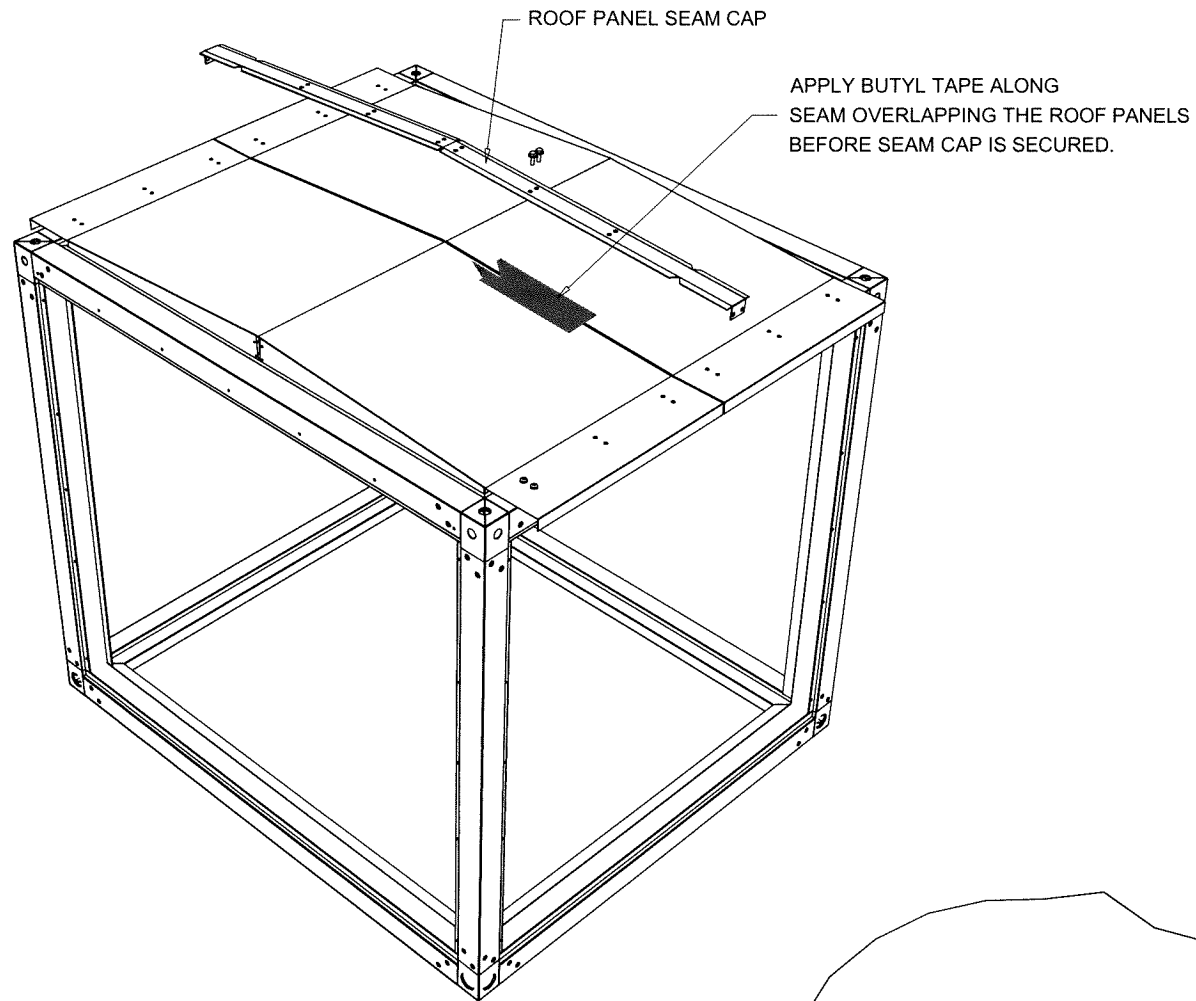
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revisions:

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| drawing no. | 13-06   |
| sheet       | 2 of 17 |



AFTER BUTYL TAPE IS APPLIED AS SHOWN ABOVE SECURE SEAM CAP AS SHOWN IN DETAIL F WITH SCREW, TEK, EPDM, PLTD, 0.25-14 X 1". ALONG TOP AND INTO SIDE AS WELL.

| STANDARD METAL THICKNESS |                      |                              |
|--------------------------|----------------------|------------------------------|
| METAL GAGE               | MIN. THICKNESS (IN.) | YIELD STRENGTH MINIMUM (KSI) |
| 8                        | 0.157                | 33.0                         |
| 10                       | 0.126                | 33.0                         |
| 12                       | 0.097                | 33.0                         |
| 14                       | 0.070                | 45.0                         |
| 16                       | 0.056                | 45.0                         |
| 18                       | 0.045                | 45.0                         |
| 20                       | 0.034                | 45.0                         |

**ROOF SEAM CAP ASSEMBLY OPTION #1**



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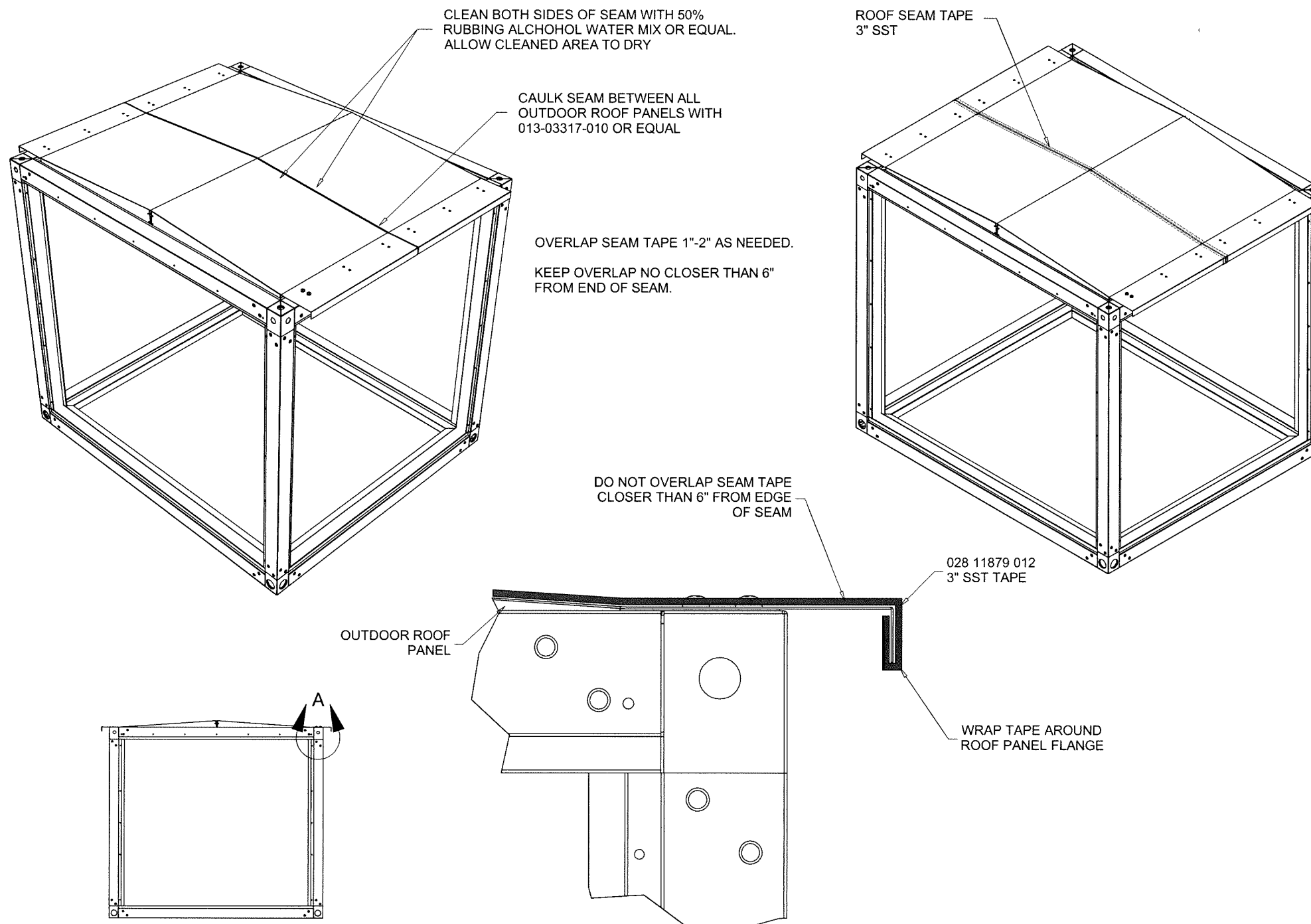
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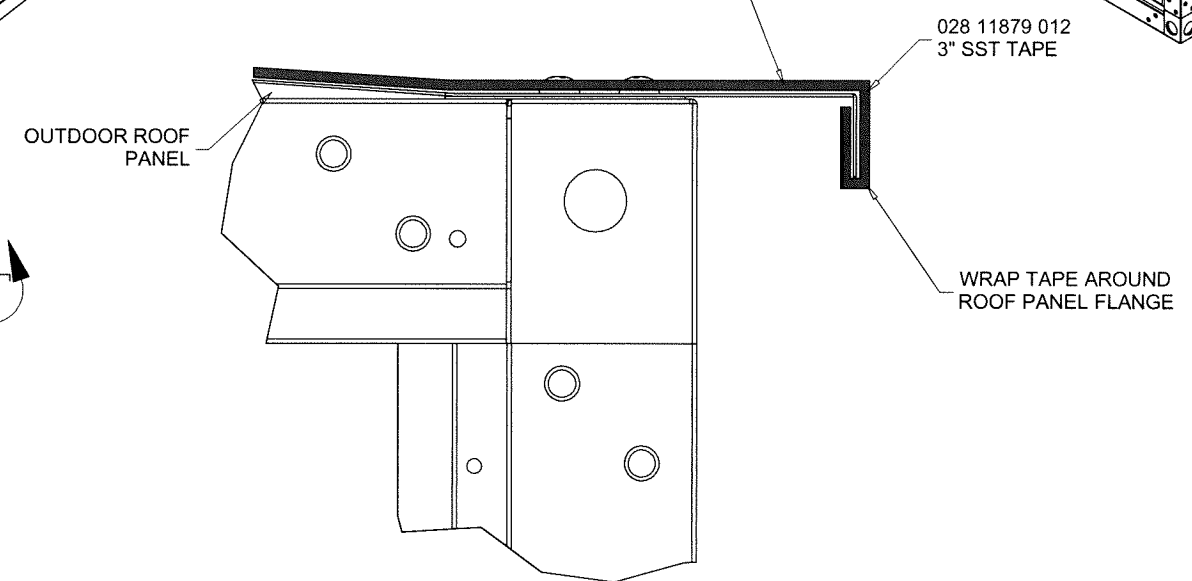
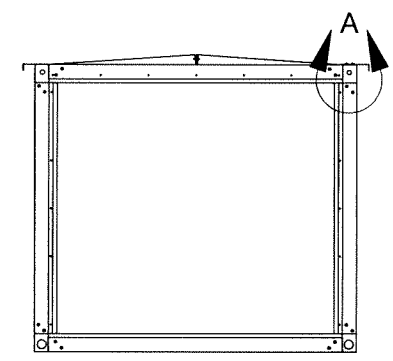
drawing no.  
**13-06**  
 sheet 3 of 17

COOLER\13-06YIC



OVERLAP SEAM TAPE 1"-2" AS NEEDED.  
KEEP OVERLAP NO CLOSER THAN 6" FROM END OF SEAM.

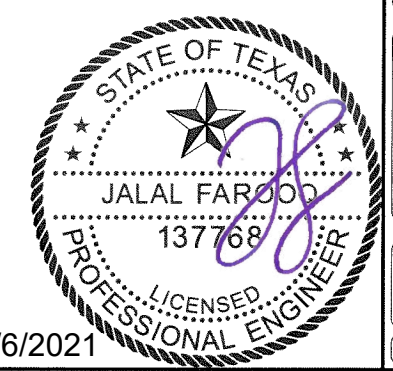
DO NOT OVERLAP SEAM TAPE CLOSER THAN 6" FROM EDGE OF SEAM



DETAIL A

| STANDARD METAL THICKNESS |                      |                              |
|--------------------------|----------------------|------------------------------|
| METAL GAGE               | MIN. THICKNESS (IN.) | YIELD STRENGTH MINIMUM (KSI) |
| 8                        | 0.157                | 33.0                         |
| 10                       | 0.126                | 33.0                         |
| 12                       | 0.097                | 33.0                         |
| 14                       | 0.070                | 45.0                         |
| 16                       | 0.056                | 45.0                         |
| 18                       | 0.045                | 45.0                         |
| 20                       | 0.034                | 45.0                         |

ROOF SEAM TAPE ASSEMBLY  
OPTION #2



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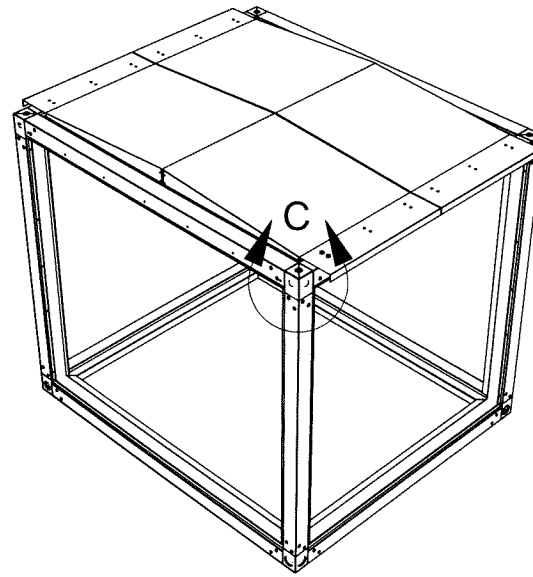
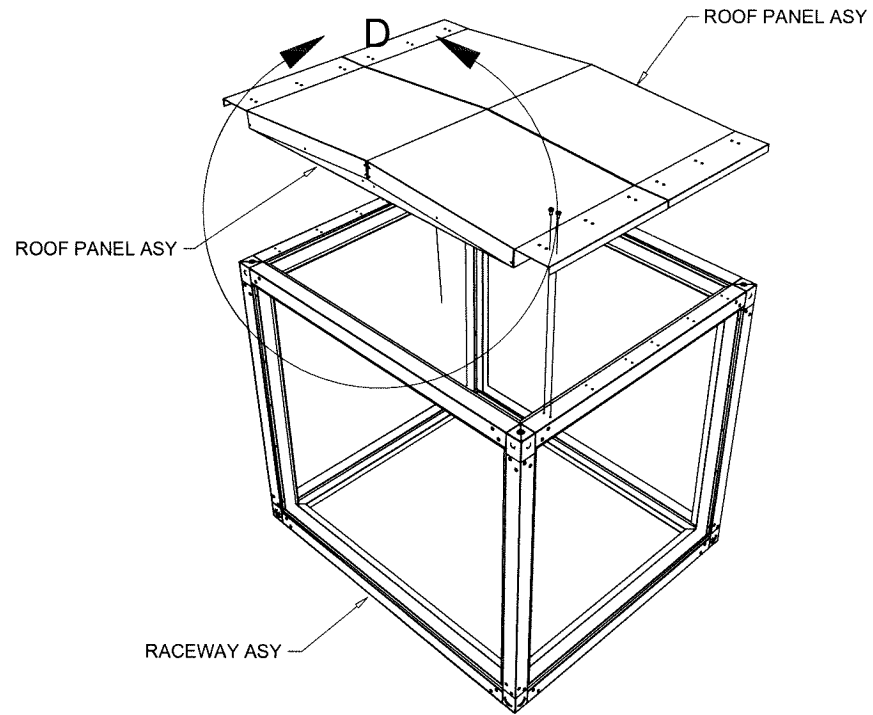
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scale: -  
dr. by: HAMID  
chk. by:

drawing no.  
**13-06**

sheet 4 of 17

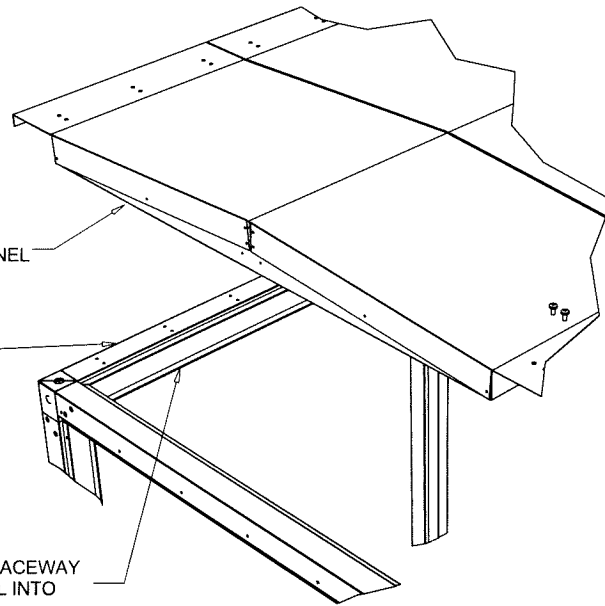
COOLER\13-06YIC



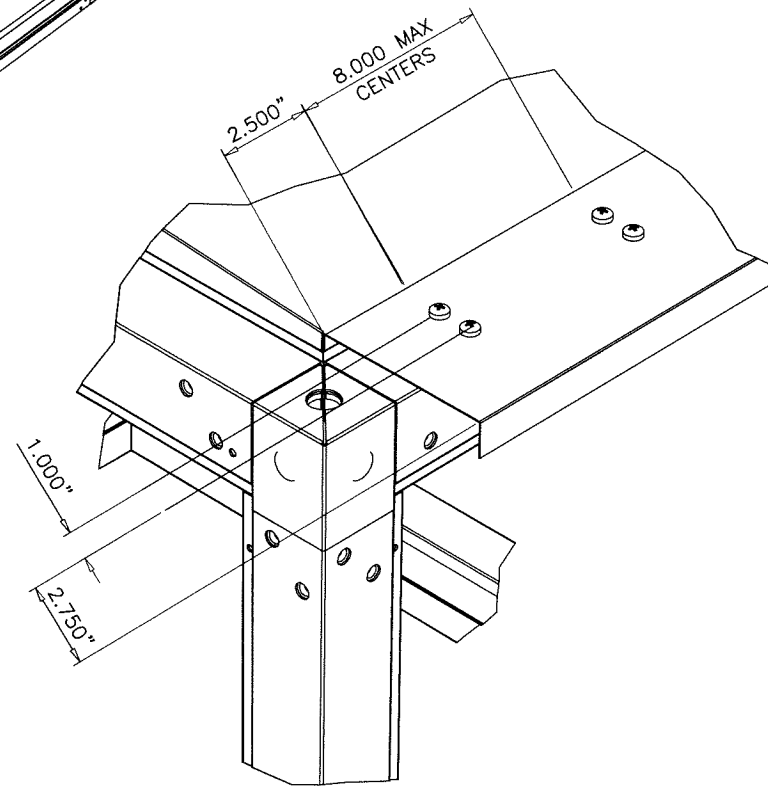
APPLY NEOPRENE 028-11867-000 TO BOTH SIDES OF ROOF PANEL ASY BEFORE PLACING ROOF PANEL IN RACEWAY ASY.

APPLY BUTYL TAPE 013-02977-000 TO RACEWAY FLANGE BEFORE PLACING ROOF PANEL INTO RACEWAY ASY.

APPLY BUTYL TAPE 013-02976-000 TO RACEWAY FLANGE BEFORE PLACING ROOF PANEL INTO RACEWAY ASY.



DETAIL D

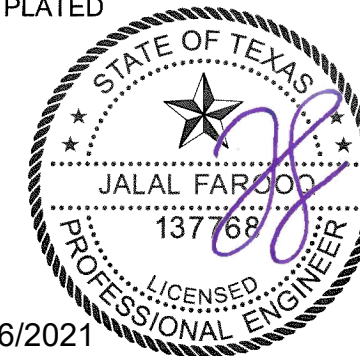


DETAIL C

AFTER APPLYING NEOPRENE AND BUTYL TAPE AS SHOWN IN DETAIL D, PLACE ROOF PANEL INTO RACEWAY ASY AND SECURE AS SHOWN IN DETAIL C USING SCREW TAP TY A PH 14-10 1/4 X 3/4 PAN HEAD PHILLIPS (#1), TYPE A, ZINC PLATED

ROOF PANEL  
ASSEMBLY

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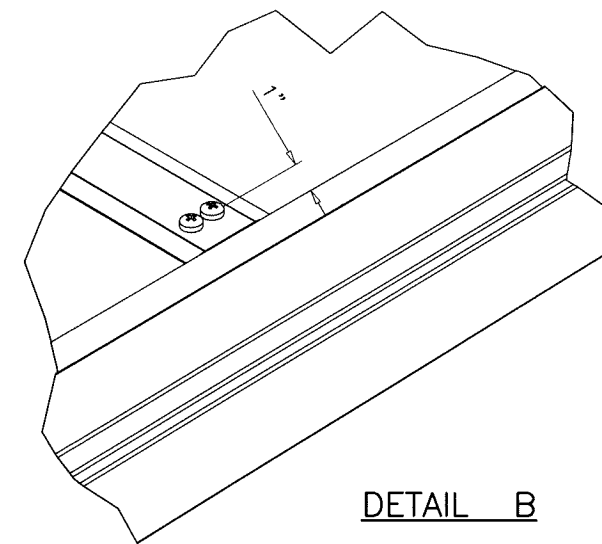
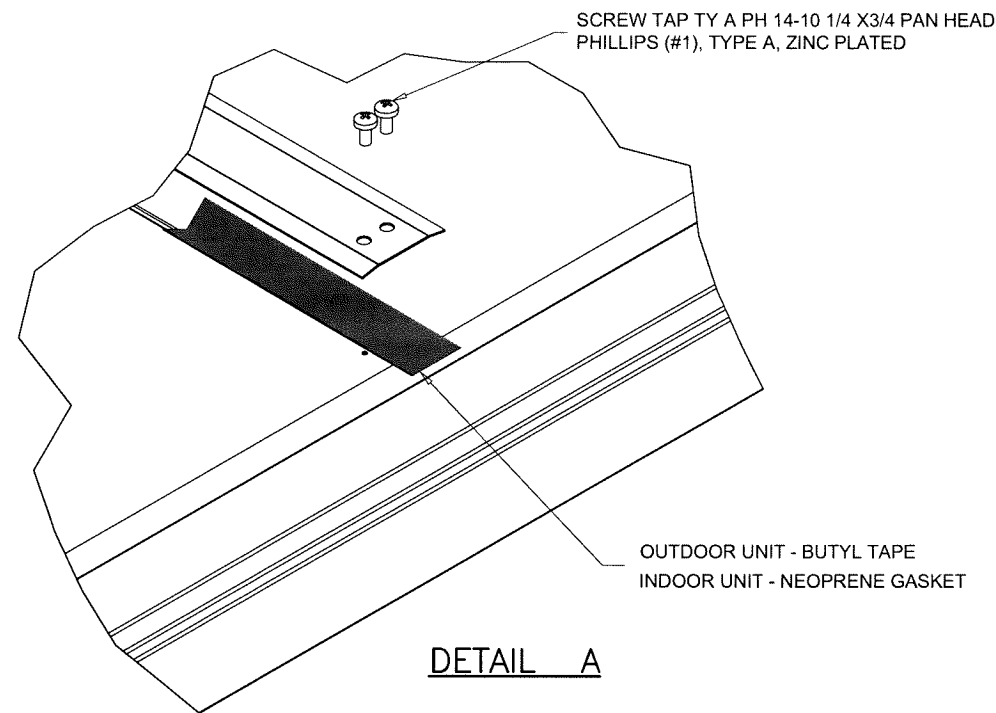
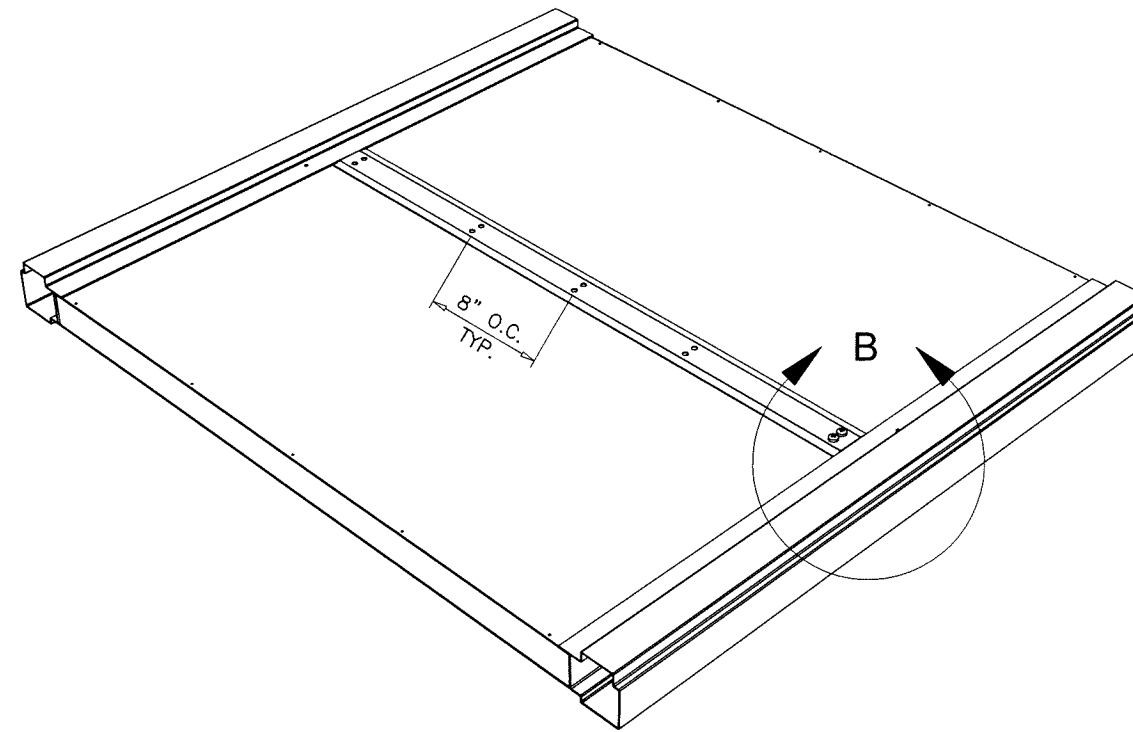
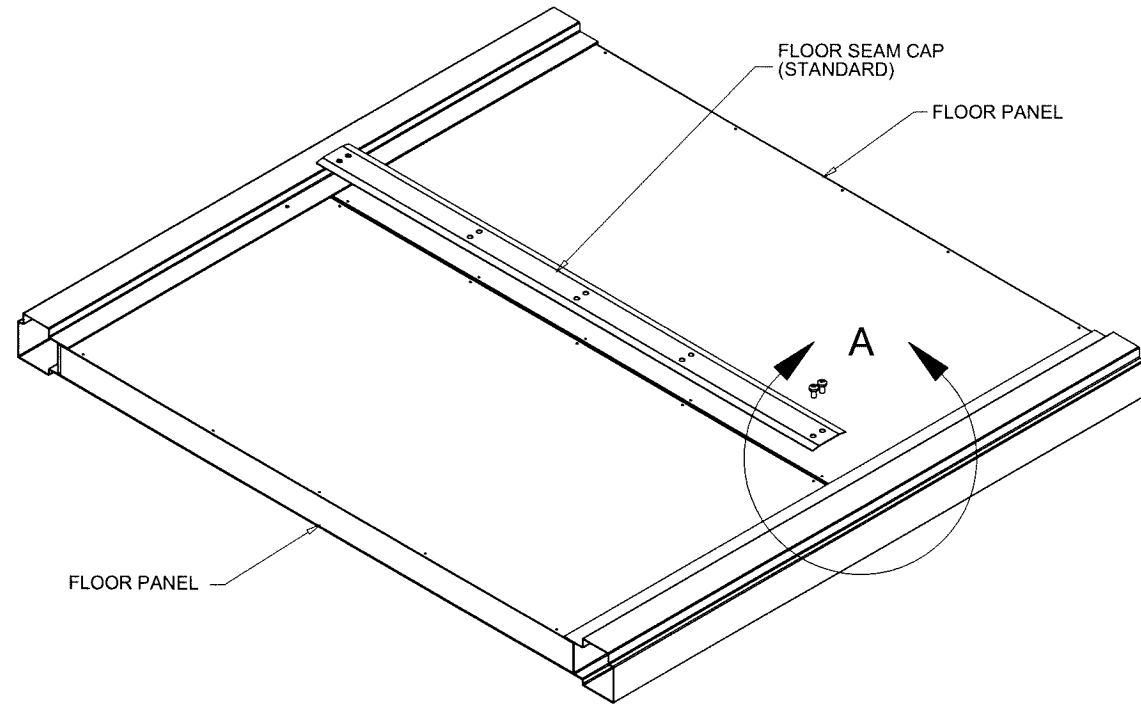
SOLUTION XT ROOFTOP AIR HANDLING UNIT  
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chk. by:

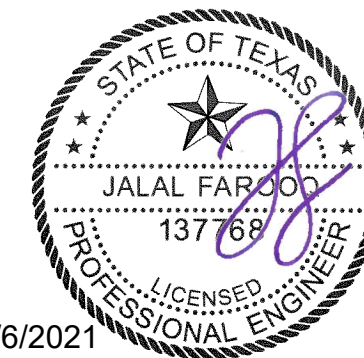
drawing no.  
**13-06**

sheet 5 of 17



**STANDARD FLOOR PANEL SEAM CAP ASY  
APPLY GASKET / BUTYL TAPE ALONG FLOOR PANEL  
SEAM BEFORE SECURING FLOOR PANEL SEAM CAP  
WITH SCREWS LISTED IN DETAIL A.**

FLOOR SEAM CAP  
MOUNTING DETAIL  
OPTION #1



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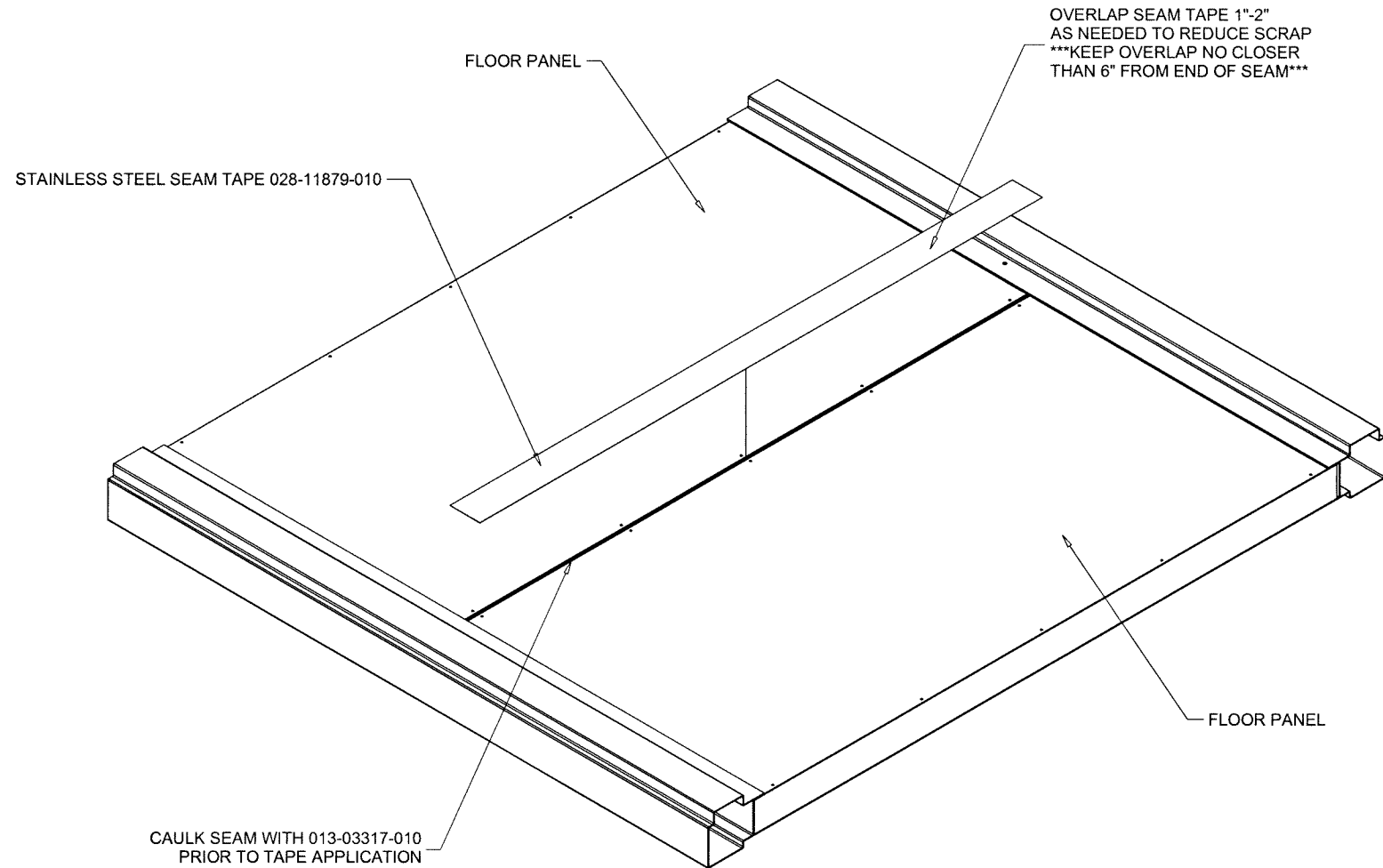
SOLUTION XT ROOFTOP AIR HANDLING UNIT  
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dr. by: HAMID  
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drawing no.  
**13-06**  
sheet 6 of 17

COOLER\13-06YIC

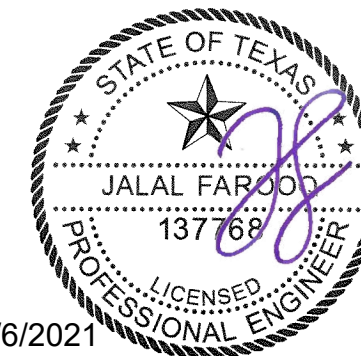


OVERLAP SEAM TAPE 1"-2"  
 AS NEEDED TO REDUCE SCRAP  
 \*\*\*KEEP OVERLAP NO CLOSER  
 THAN 6" FROM END OF SEAM\*\*\*

CAULK SEAM WITH 013-03317-010  
 PRIOR TO TAPE APPLICATION

STANDARD FLOOR PANEL SEAM TAPE APPLICATION  
 THIS APPLIES FOR BOTH XTI & XTO UNITS.  
 CLEAN BOTH SIDES OF SEAM WITH 50% RUBBING  
 ALCOHOL WATER MIX OR EQUAL. ALLOW TO DRY.  
 CAULK ALONG FLOOR PANEL SEAM.  
 APPLY SEAM TAPE EVENLY ALONG ENTIRE FLOOR  
 PANEL SEAM.

FLOOR SEAM TAPE  
ASSEMBLY  
OPTION #2



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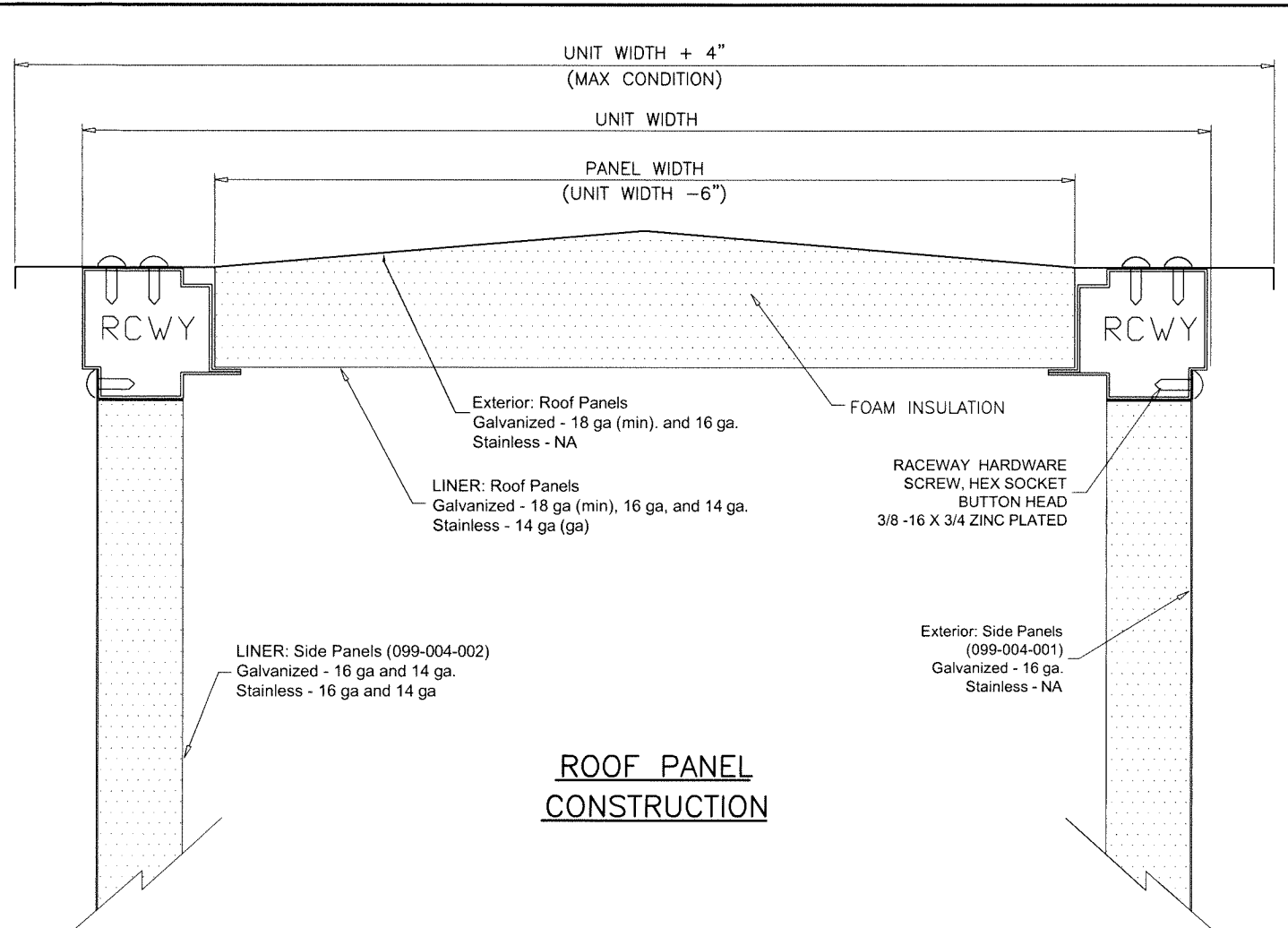
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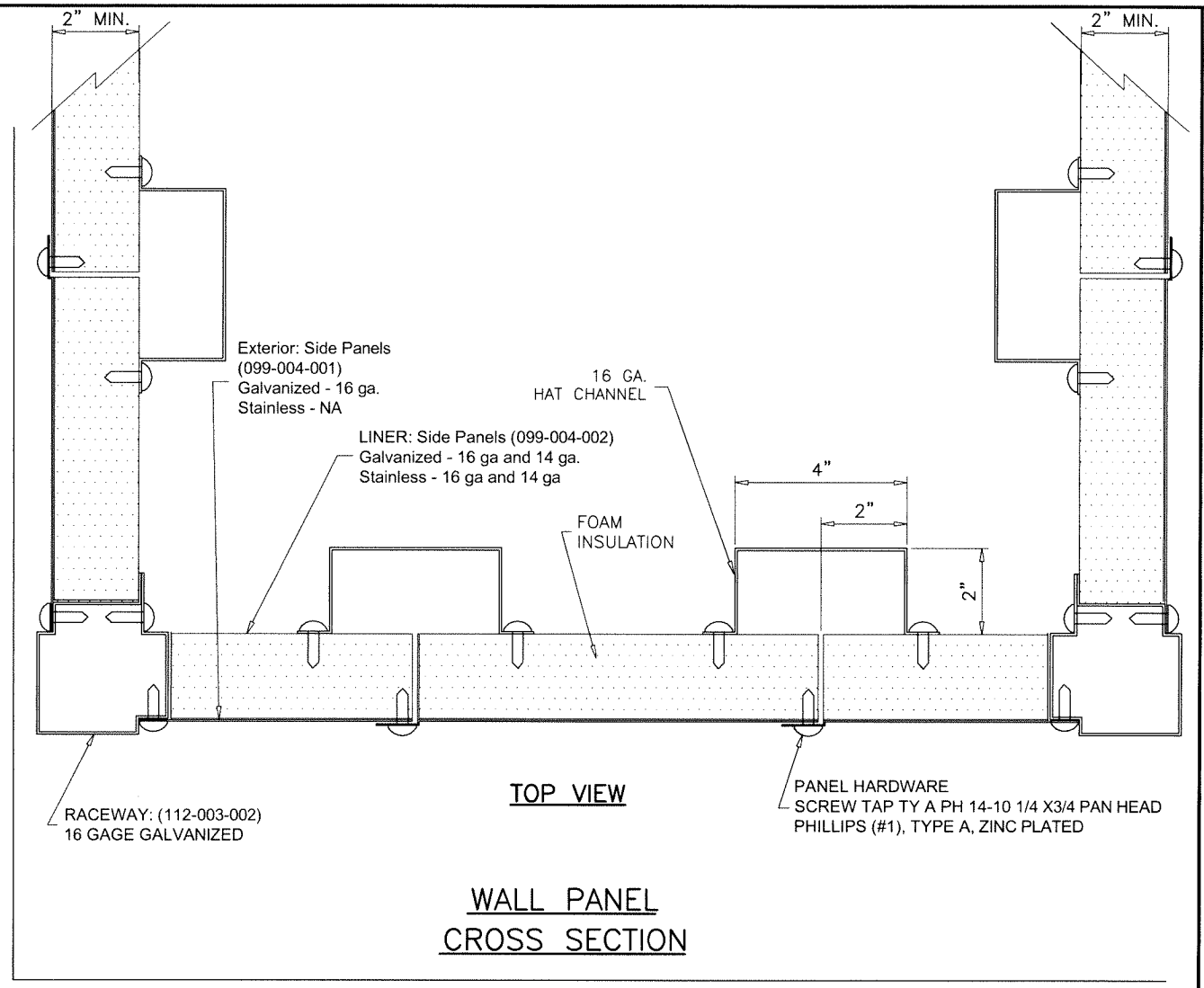
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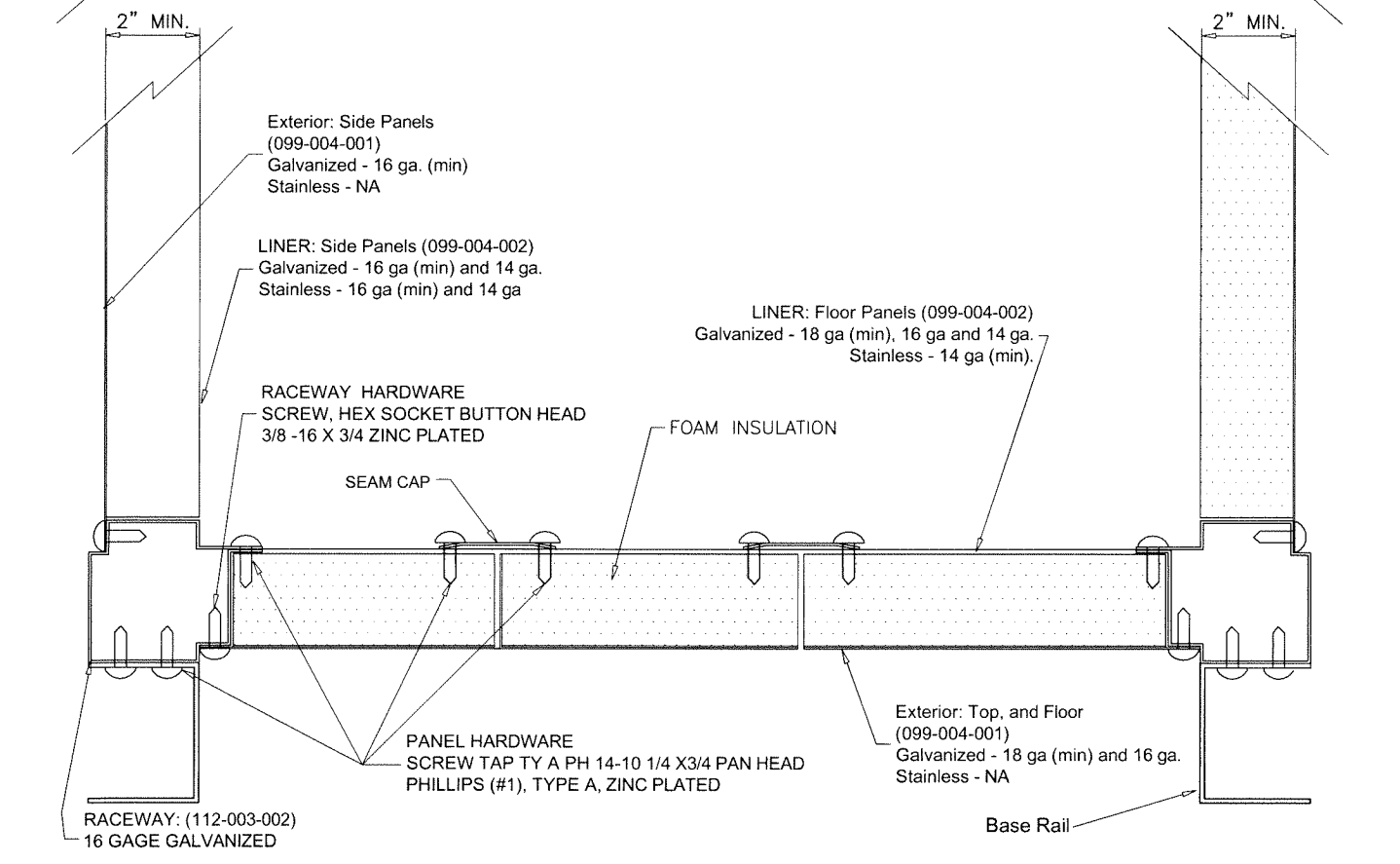
sheet 7 of 17



**ROOF PANEL CONSTRUCTION**



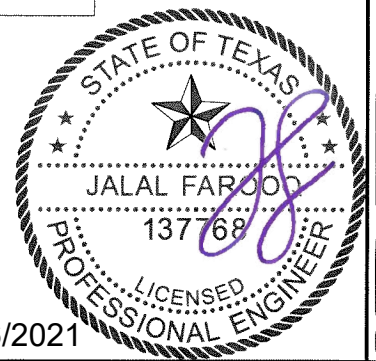
**WALL PANEL CROSS SECTION**



**FLOOR PANEL CONSTRUCTION**

**Notes:**

1. Roof panels, floor panels, and wall panels are 2.00" thick double wall construction. Exterior roof and floor panel construction of 18 gage (min) galvanized steel and 16 gage (min) for wall panels. The interior liner shall be constructed of 18 gage (min) for roof and floor panels and 16 gage (min) for walls.
2. Access doors are 2.00" thick, double-wall construction, of galvanized sheet steel. The interior and exterior liner construction shall consist of 20 gage sheet steel. Additionally, an 18 gage exterior panel shall be secured to the access door with #14 x 3/4" self-tapping sheet metal screws.
3. Insulation is spray injected closed-cell foam.



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 COOLERS 13-06YIC

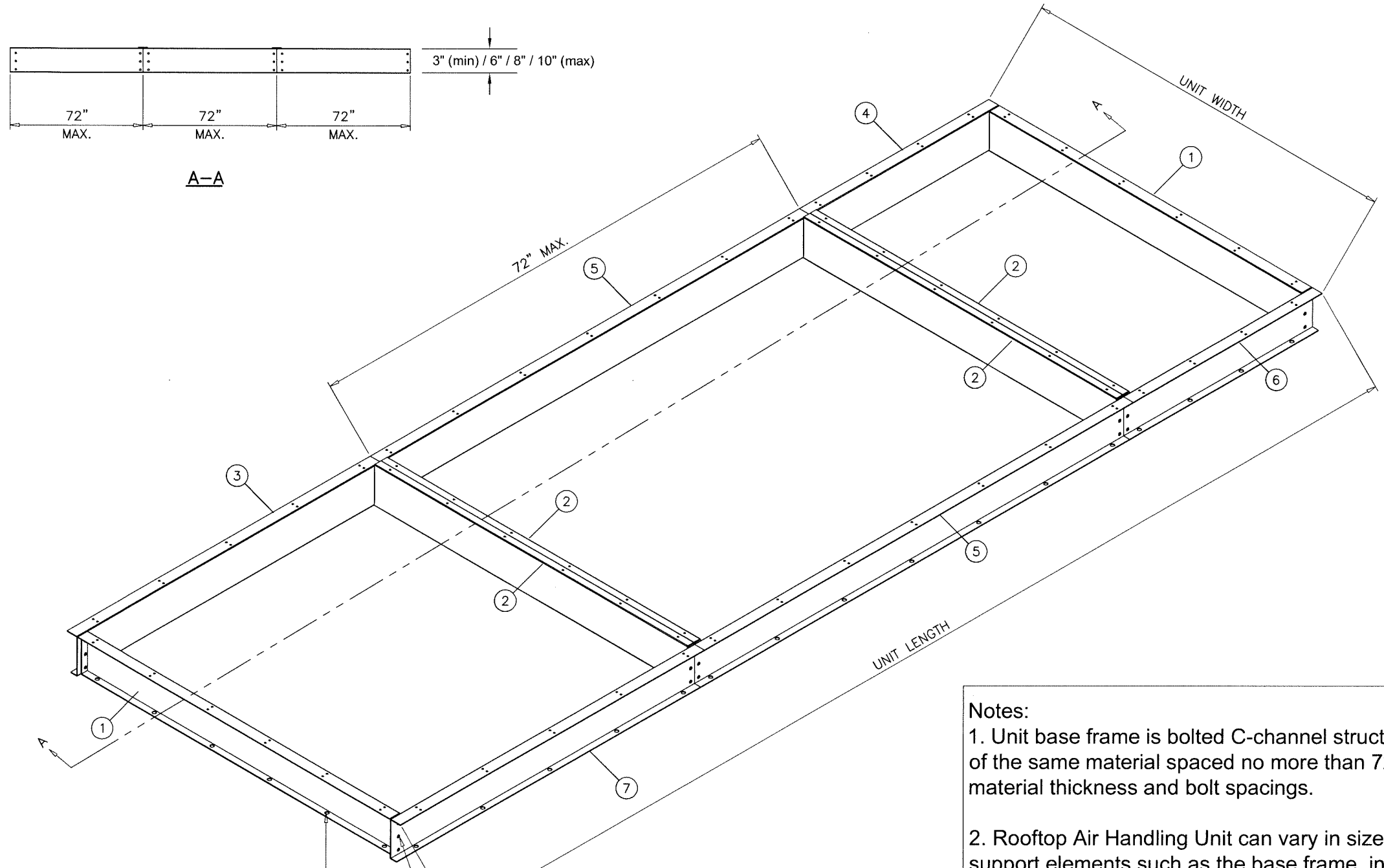
SOLUTION XT ROOFTOP AIR HANDLING UNIT  
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| dr. by: HAMID  | chk. by:         |

drawing no. **13-06**  
 sheet 8 of 17





5/8" DIA. ST/ST KWIK BOLTS INTO 3000 PSI MIN. CONCRETE 4" MIN. CONC. EMBED OR 5/8" DIA. THRU BOLTS W/ WASHER & NUT INTO 1/8" MIN. THK. STEEL AT 4" FROM ENDS & 16" O.C. MAX.

SCREW, HEX HEAD, 1/2-13UNC-2A X 1.75  
 (2) 3" & 6" BASERAIL HEIGHTS  
 (3) 8" & 10" BASERAIL HEIGHTS

NOTE:  
 VERIFY CABLE LOCATION BEFORE DRILLING  
 IF ROOF IS POST TENSION CONCRETE SLAB.

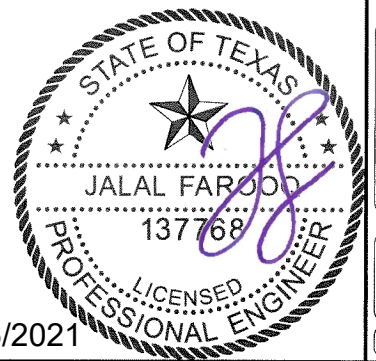
| Parts List |     |                       |
|------------|-----|-----------------------|
| ITEM       | QTY | DESCRIPTION           |
| 1          | 2   | BASERAIL END XTI GALV |
| 2          | 4   | BASERAIL INT XTI GALV |
| 3          | 1   | BASERAIL DOA FIA GALV |
| 4          | 1   | BASERAIL DOA LIA GALV |
| 5          | 2   | BASERAIL DOA MIA GALV |
| 6          | 1   | BASERAIL DOA FIA GALV |
| 7          | 1   | BASERAIL DOA LIA GALV |

**Notes:**

1. Unit base frame is bolted C-channel structural steel with c-channel cross supports of the same material spaced no more than 72" apart. Refer to sheet 10 for material thickness and bolt spacings.
2. Rooftop Air Handling Unit can vary in size however, spacing of the structural support elements such as the base frame, internal hat channels, raceways, roof/floor/wall panels, hardware spacing, hardware sizes, shall not exceed the dimensions or material gages indicated.
3. It shall be the responsibility of the permit holder to verify the structural integrity of the existing structure to support the loads superimposed by the Rooftop Air Handling Unit.

**SOLUTION XT  
 BASERAIL ASSEMBLY**

Sealed: 7/6/2021



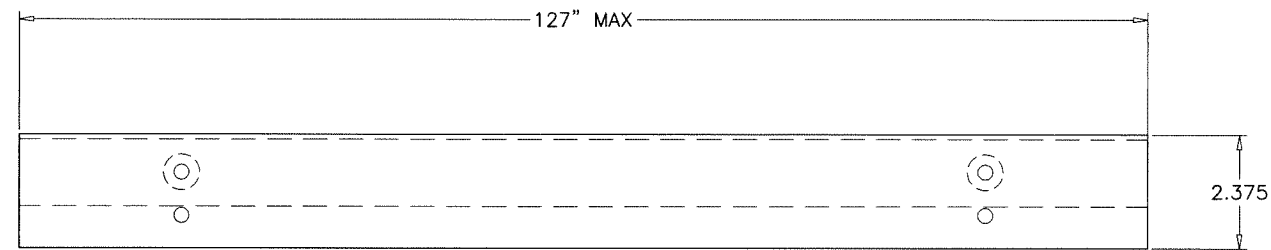
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**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
 MIAMI, FLORIDA 33173  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COOLER \ 13-06YIC

SOLUTION XT ROOFTOP AIR HANDLING UNIT  
 York/Johnson Controls Inc.  
 100 JCI Way  
 York, PA. 17406  
 TEL. (717) 978-3326

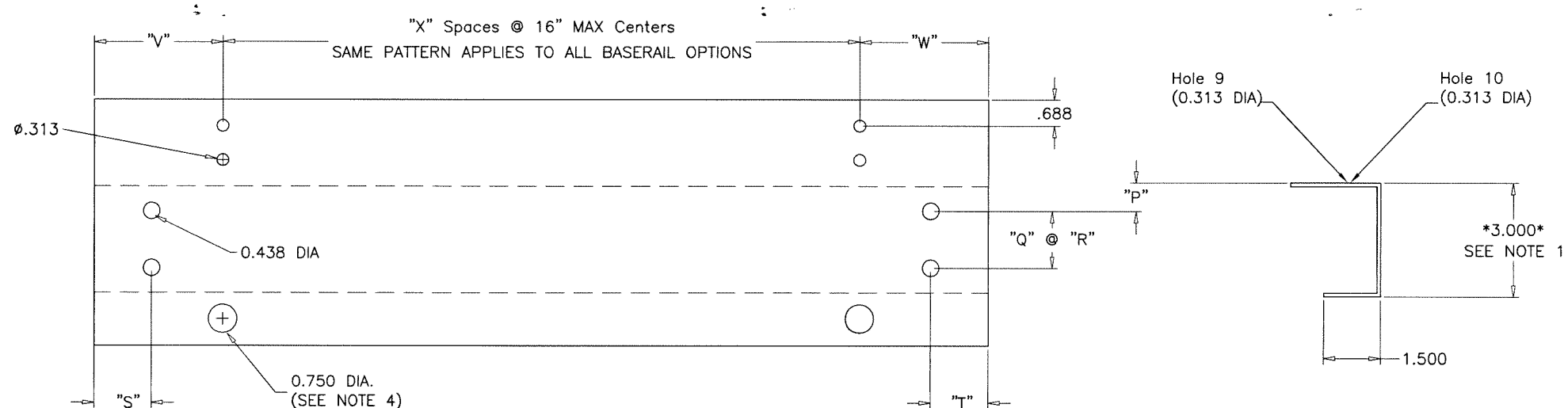
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date: 11-19-13  
 scale: 1/4"=1'-0"  
 dr. by: HAMID  
 chk. by:

drawing no.  
**13-06**  
 sheet 9 of 17



**FORMED TOP VIEW**



**FLAT VIEW**

**FORMED SIDE VIEW**

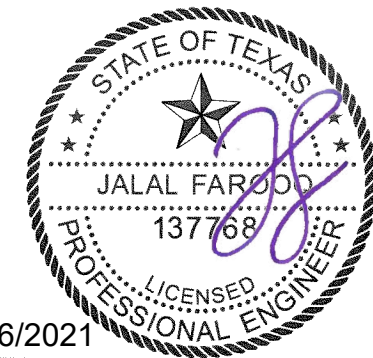
**5/8" DIA. HOLES USED WITH 1/4" SCREWS TO ATTACH BASERAIL TO UNIT RACEWAY.**  
**3/4" DIA. HOLES USED WITH 5/8" BOLTS TO ATTACH BASERAIL TO DUNAGE STEEL OR CONC. SLAB.**  
**SEE SHEET 11 FOR BASERAIL USED FOR ROOF CURB.**

- NOTES:
- 1) BASERAIL OPTION HEIGHTS 3",6",8",10"
  - 2) HOLE SPACING BETWEEN FIRST AND LAST WILL VARY UPON BASERAIL LENGTH BUT CENTERS WILL NOT EXCEED 16" AS INDICATED BY "X" SPACES.
  - 3) BASERAIL GAGES AS FOLLOWS - 3" = 12 GAGE GALV  
   6" = 10 GAGE GALV  
   8" = 10 GAGE GALV  
    10" = 8 GAGE GALV
  - 4) 0.75" DIA. BASERAIL BOLT HOLE SHALL BE USE FOR ATTACHMENT TO THE ROOF TO PREVENT SLIDING AND OVERTURNING OF THE AIR HANDLING UNIT.

| Baserail Height | "P"   | "Q" SPACES | "R"   | BASERAIL LOCATION | "S"   | "T"   | "V"   | "W"   |
|-----------------|-------|------------|-------|-------------------|-------|-------|-------|-------|
| 3               | .875  | 1          | 1.250 | LIA               | .941  | 1.781 | 3.153 | 5.403 |
| 6               | 1.657 | 1          | 2.687 | MIA               | .941  | .941  | 3.153 | 3.153 |
| 8               | 1.657 | 2          | 2.687 | FIA               | 1.781 | .941  | 5.403 | 3.153 |
| 10              | 1.657 | 2          | 2.687 | FULL              | 1.781 | 1.781 | 5.403 | 5.403 |

**BASERAIL DIMENSIONS**

Sealed: 7/6/2021



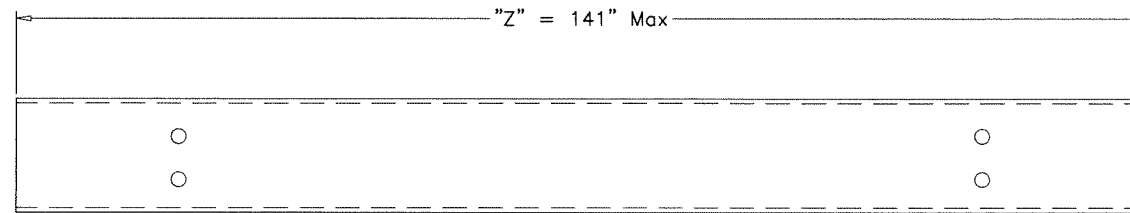
**af c**  
**AL-FAROOQ CORPORATION**  
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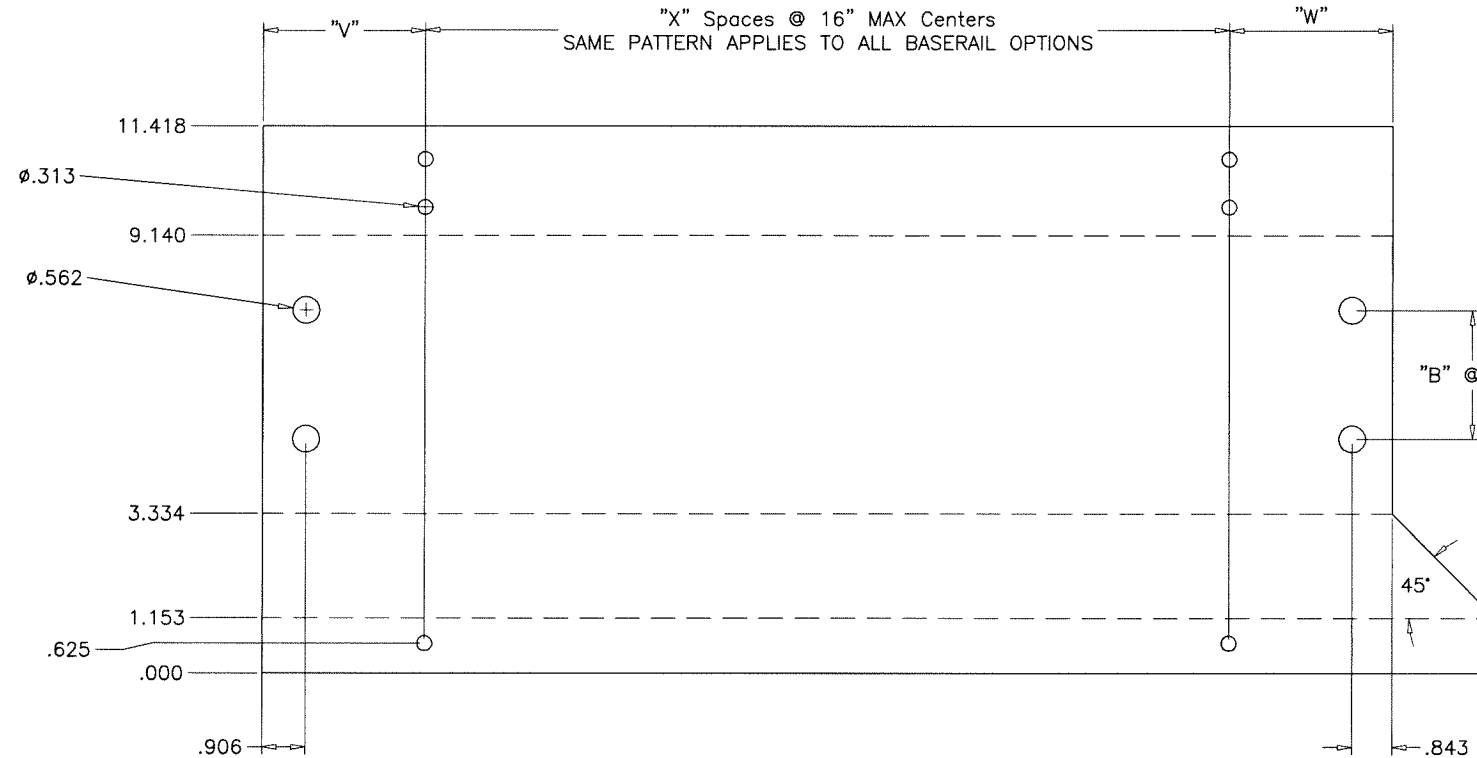
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 chk. by:

drawing no.  
**13-06**  
 sheet 10 of 17

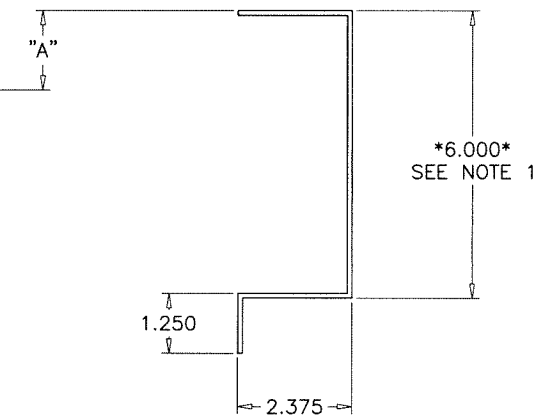


FORMED TOP VIEW

| CALCULATION CHART AND DATA |       |            |       |
|----------------------------|-------|------------|-------|
| VERTICAL HOLE DATA         |       |            |       |
| BASERAIL HEIGHT            | "A"   | "B" SPACES | "C"   |
| 6"                         | 1.657 | 1          | 2.687 |
| 8"                         | 1.657 | 2          | 2.687 |
| 10"                        | 1.657 | 2          | 2.687 |



FLAT VIEW



FORMED SIDE VIEW

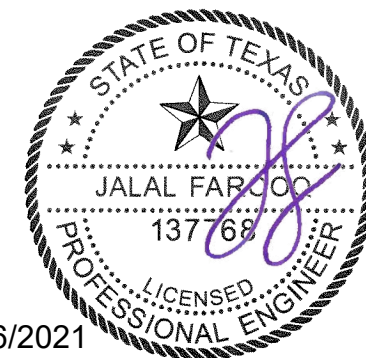
NOTES:

- 1) BASERAIL OPTION HEIGHTS 6",8",10"
- 2) HOLE SPACING BETWEEN FIRST AND LAST WILL VARY UPON BASERAIL LENGTH BUT CENTERS WILL NOT EXCEED 16" AS INDICATED BY "X" SPACES.
- 3) BASERAIL GAGES AS FOLLOWS - 6" = 10 GAGE GALV  
8" = 10 GAGE GALV  
10" = 8 GAGE GALV
- 4) 0.75" DIA. BASERAIL BOLT HOLE SHALL BE USE FOR ATTACHMENT TO THE ROOF TO PREVENT SLIDING AND OVERTURNING OF THE AIR HANDLING UNIT.

| Baserail Location | "V"   | "W"   | "Z"                                      | "X"                   |
|-------------------|-------|-------|--|-----------------------|
| FIA "C"           | 3.153 | 3.028 | =SUM OF SECTION LENGTHS + 3.063 (<=141") | =ROUNDUP((Z-V-W)/16") |

**BASERAIL DIMENSIONS FOR USE W/ ROOF CURB**

Sealed: 7/6/2021



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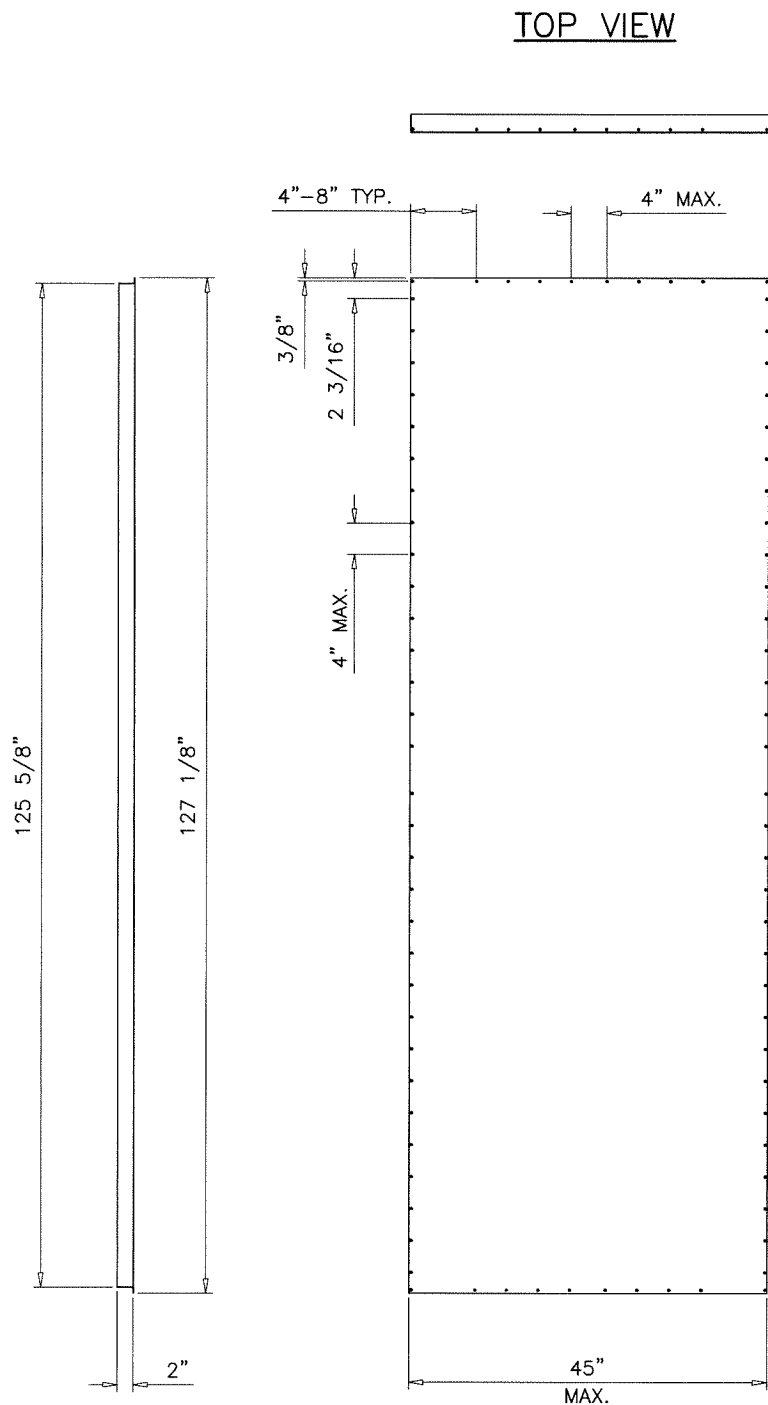
SOLUTION XT ROOFTOP AIR HANDLING UNIT  
**York/Johnson Controls Inc.**  
100 JCI Way  
York, PA. 17406  
TEL. (717) 978-3326

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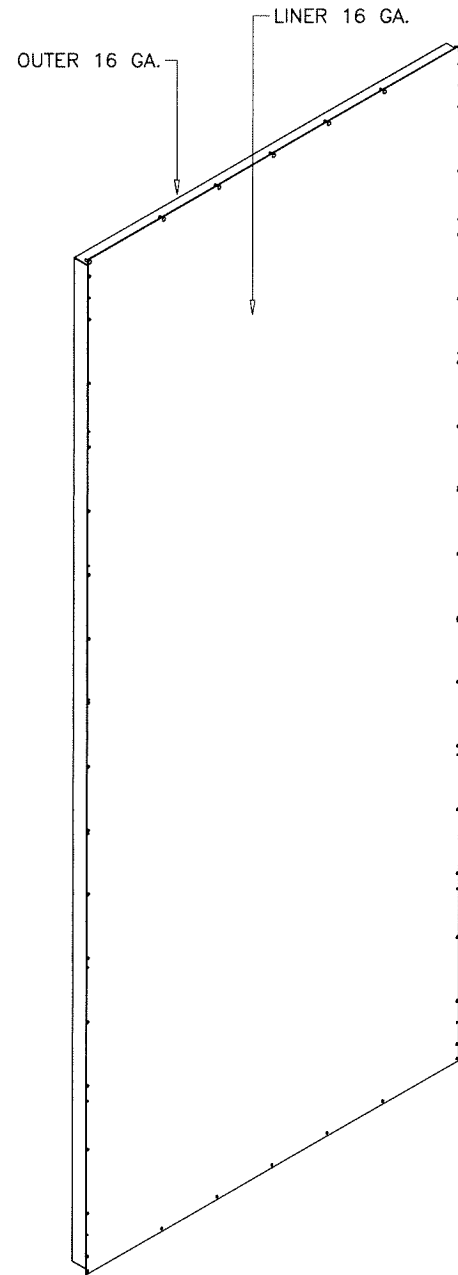
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chk. by:

drawing no.  
**13-06**  
sheet 11 of 17

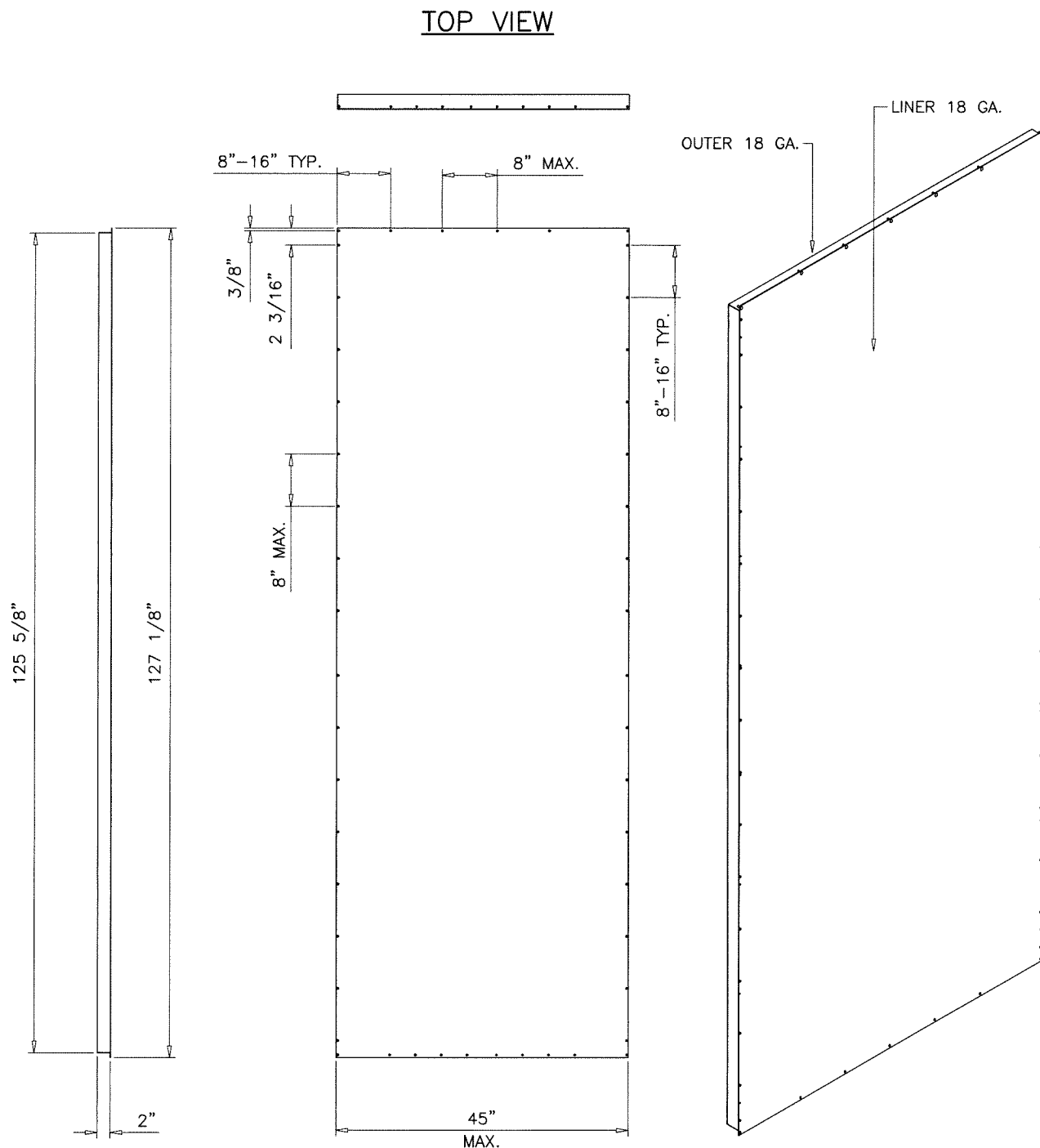
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**SOLUTION XT-45W  
WALL PANEL ASSY.**



NOTE: SCREW SPACING AND LOCATIONS ARE INDICATED. REFER TO OTHER DRAWINGS FOR SCREW SIZES



**SOLUTION XT-45W  
FLR/ROOF PANEL ASSY.**



Sealed: 7/6/2021

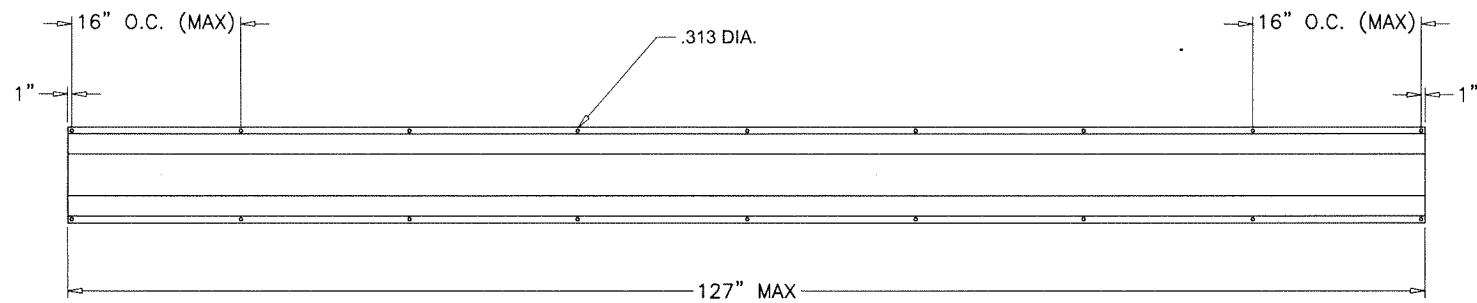
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**AL-FAROOQ CORPORATION**  
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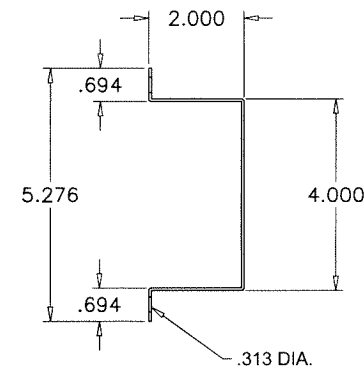
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 chk. by:

drawing no.  
**13-06**  
 sheet 12 of 17



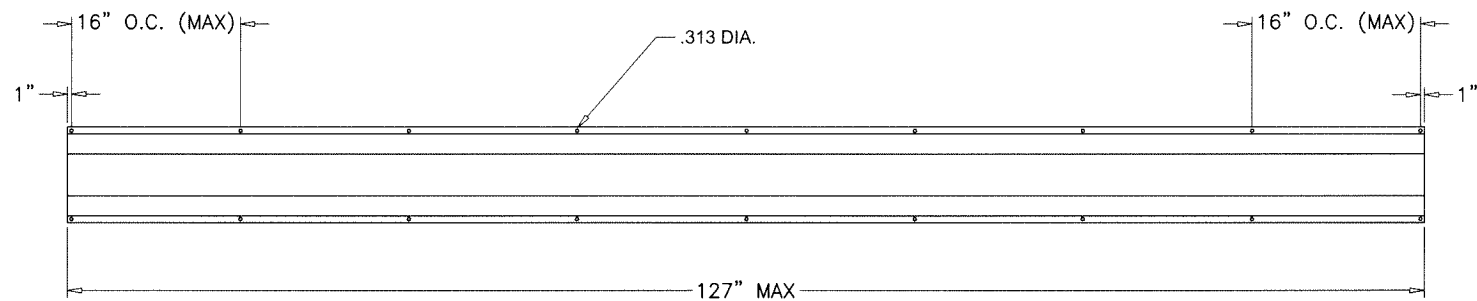
FLAT VIEW



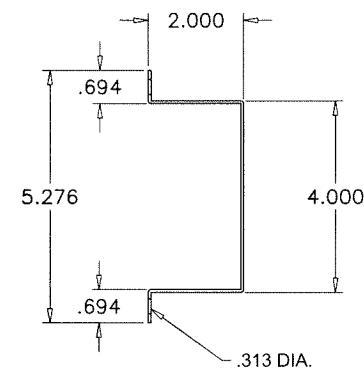
FORMED SIDE VIEW

- NOTES:
1. Internal steel hat channel supports shall be 16 gage minimum thickness galvanized steel.
  2. The maximum spacing for the internal supports shall be 36" O.C. and maximum length shall not exceed 127".
  3. Hat channels shall be installed to unit #14 x 1" self-tapping panhead screws.

SIDE WALL SUPPORTS  
SOLUTION XT-HAT CHANNEL



FLAT VIEW

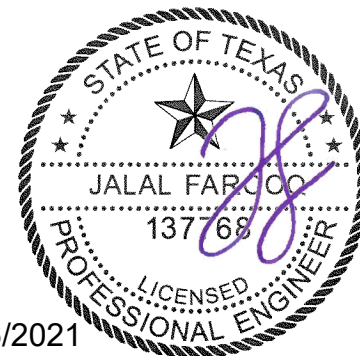


FORMED SIDE VIEW

- NOTES:
1. Internal steel hat channel supports shall be 12 gage minimum thickness galvanized steel.
  2. The maximum spacing for the internal supports shall be 37" O.C. and maximum length shall not exceed 127".
  3. Hat channels shall be installed to unit #14 x 1" self-tapping panhead screws.

END WALL SUPPORTS  
SOLUTION XT-HAT CHANNEL

Sealed: 7/6/2021



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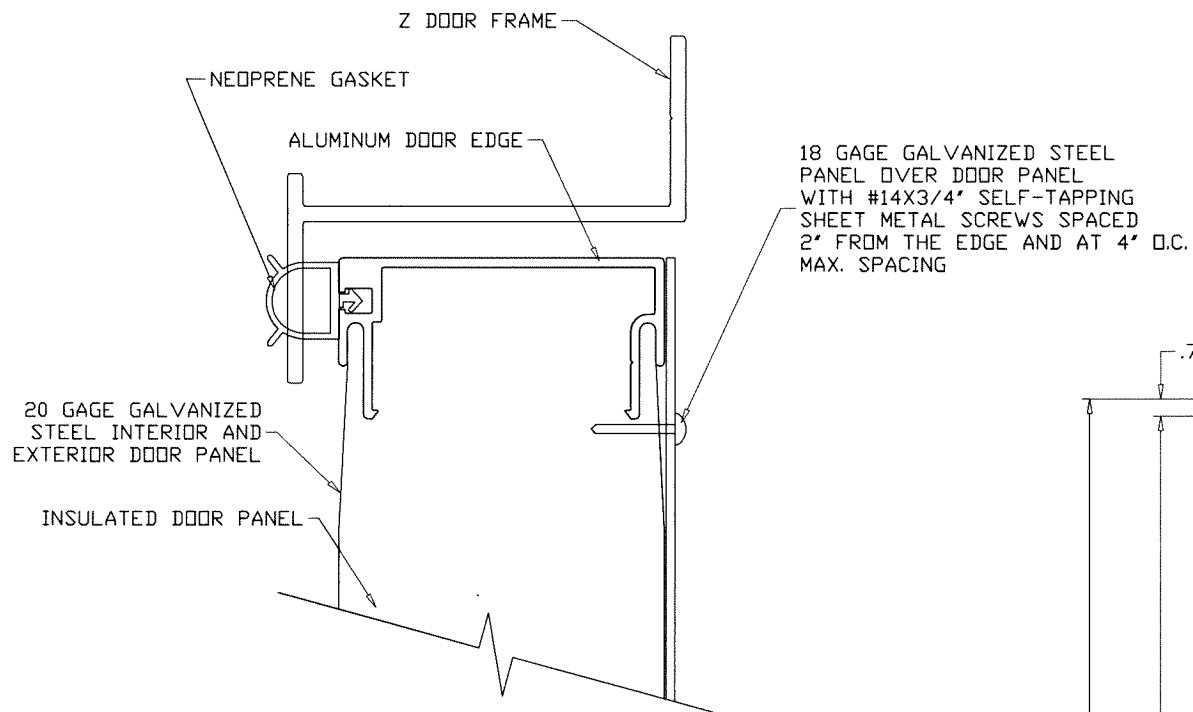
SOLUTION XT ROOFTOP AIR HANDLING UNIT  
**York/Johnson Controls Inc.**  
100 JCI Way  
York, PA. 17406  
TEL. (717) 978-3326

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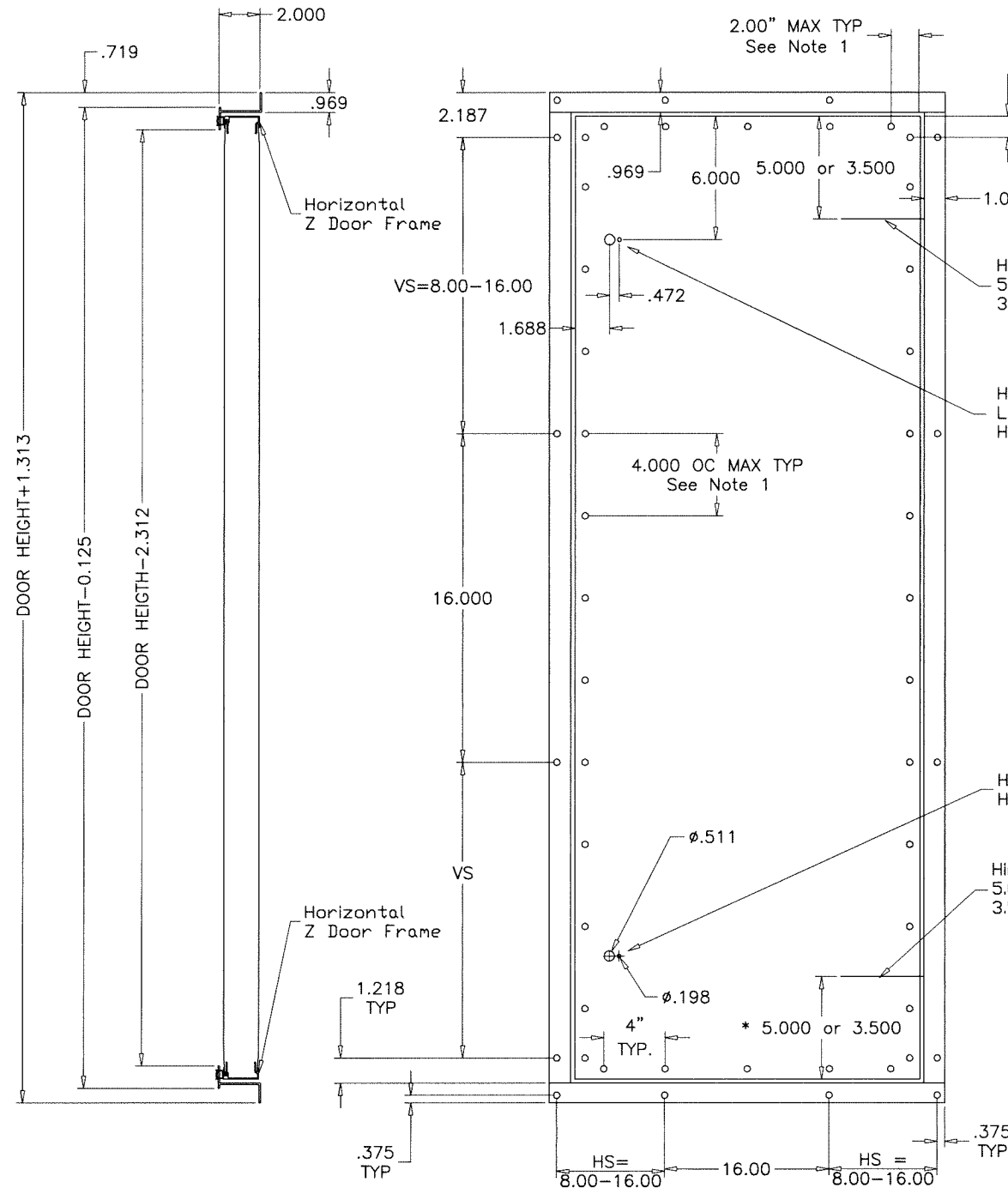
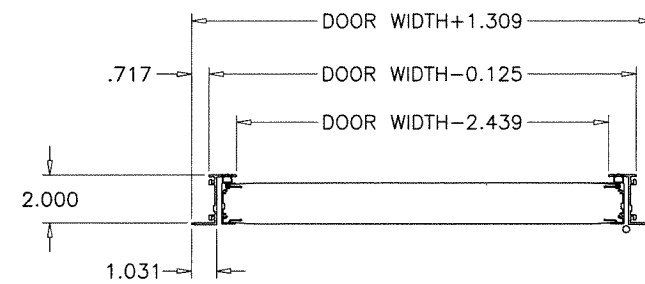
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dr. by: HAMID  
chk. by:

drawing no.  
**13-06**  
sheet 13 of 17

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**ENLARGED DOOR EDGE DETAIL**

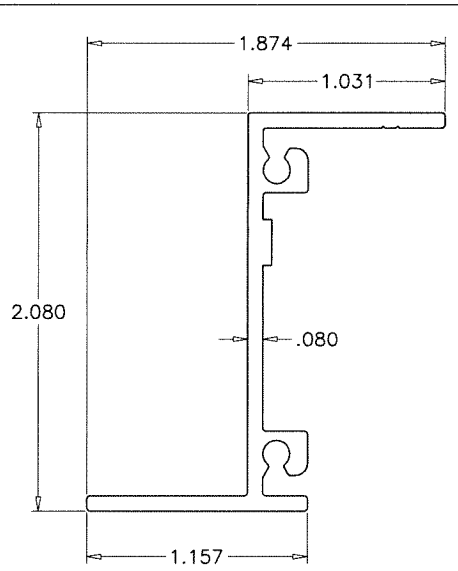


Hinge Start Location  
5.000: For Door Height = 20.88 thru 128.88  
3.500: For Door Height = 14.88 thru 17.88

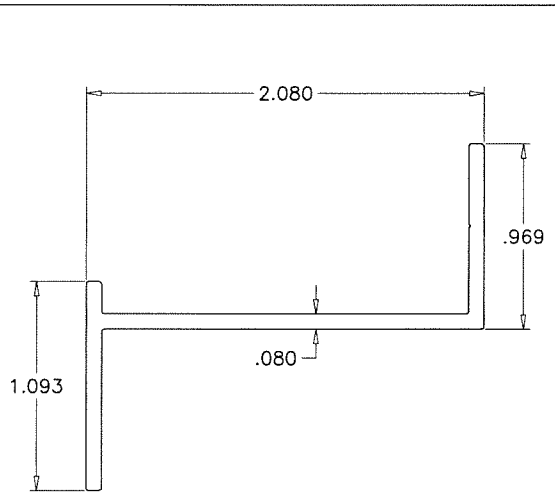
Handle Holes in Door Panel Located on Outside Surface Handles not installed

Handle Holes in Door Panel Handles not installed

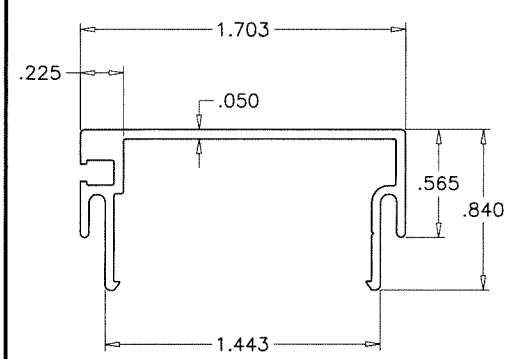
Hinge Start Location  
5.000: For Door Height = 20.88 thru 128.88  
3.500: For Door Height = 14.88 thru 17.88



**NON THERMAL VERTICAL Z FRAME**



**NON THERMAL HORIZONTAL Z FRAME**



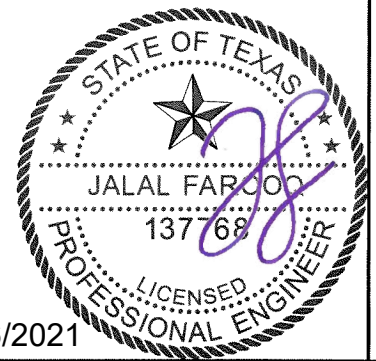
**NON THERMAL DOOR PANEL EDGE EXTRUSION**

NOTES:  
UNIT DOOR HEIGHT = UNIT HEIGHT - 6.125  
PIPE CHASE DOOR HEIGHT = UNIT HEIGHT - 3.125

NOTE:  
1. Access doors are 2.00" thick, double-wall construction of galvanized sheet steel. The interior and exterior liner construction shall consist of 20 gage sheet steel. Additionally, an 18 gage steel exterior panel shall be secured to the access door with #14 x 3/4" self-tapping sheet metal screws spaced 2" from the edge and at 4" O.C.

**SOLUTION XT ACCESS DOOR OPTION #1**

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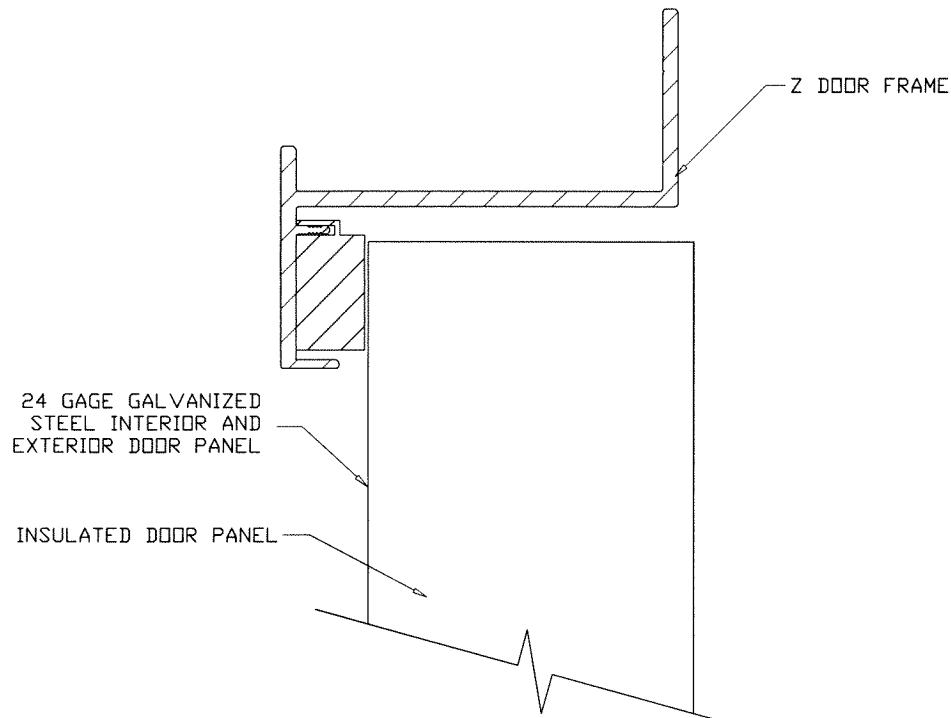
SOLUTION XT ROOFTOP AIR HANDLING UNIT  
**York/Johnson Controls Inc.**  
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York, PA. 17406  
TEL. (717) 978-3326

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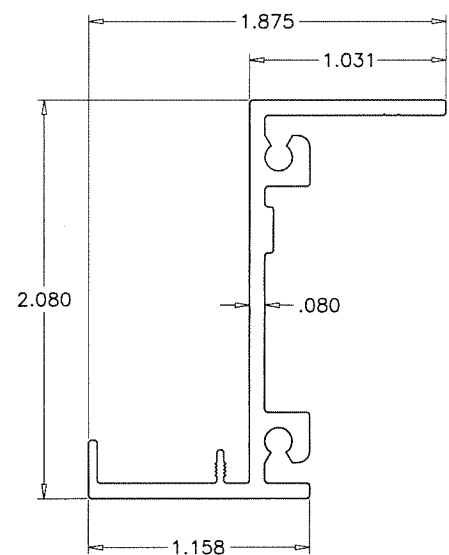
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chk. by:

drawing no. 13-06  
sheet 14 of 17

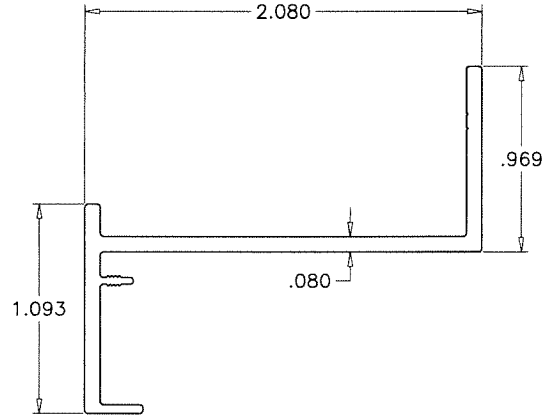
COOLER\13-06YC



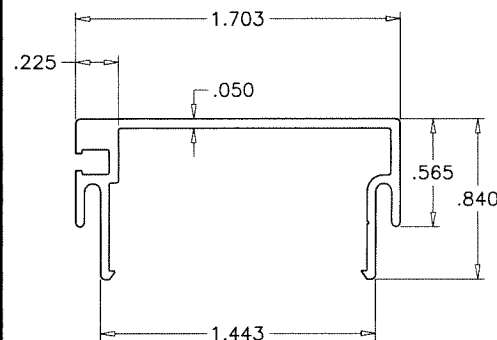
ENLARGED DOOR EDGE DETAIL



NON THERMAL VERTICAL Z FRAME



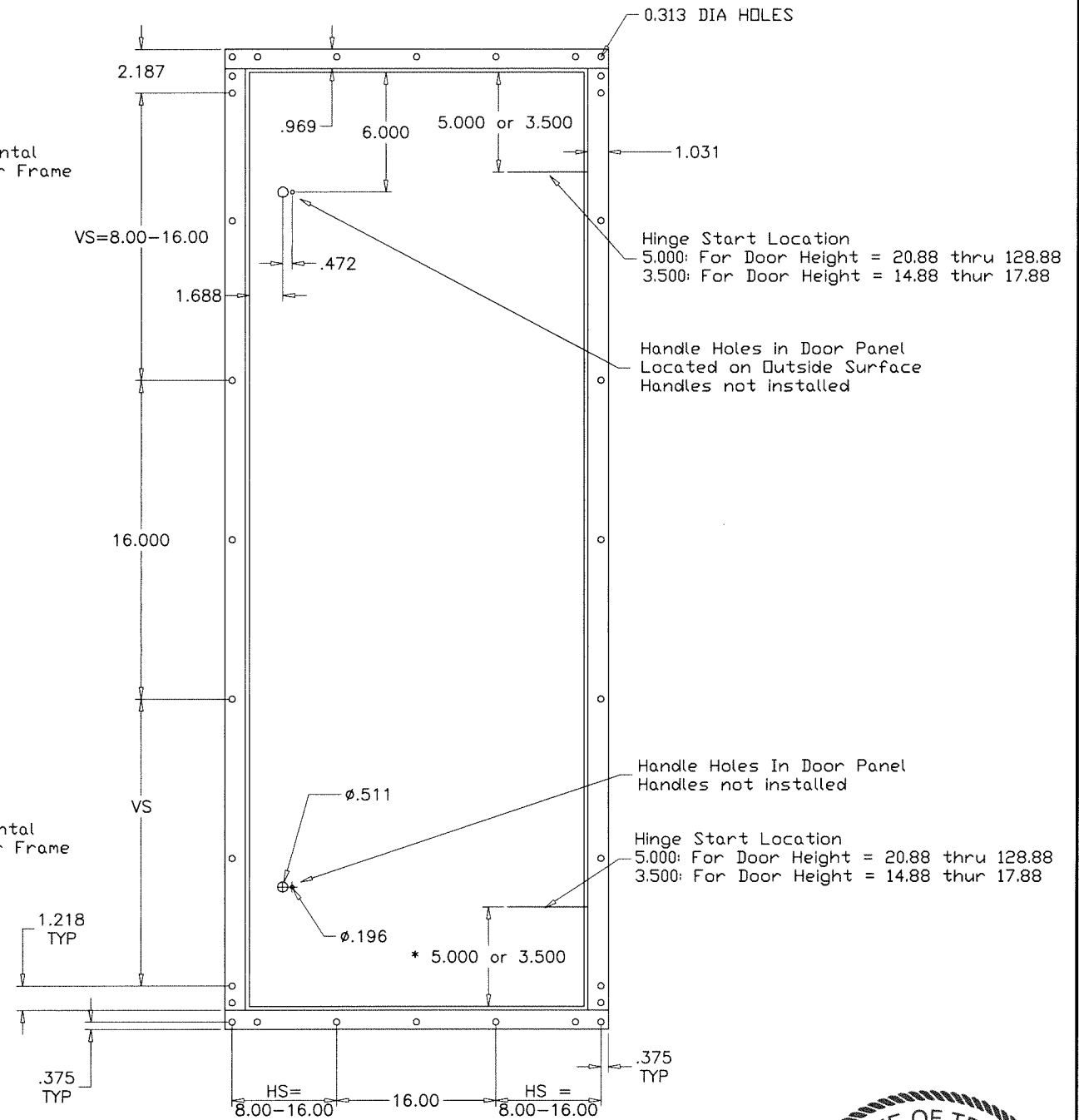
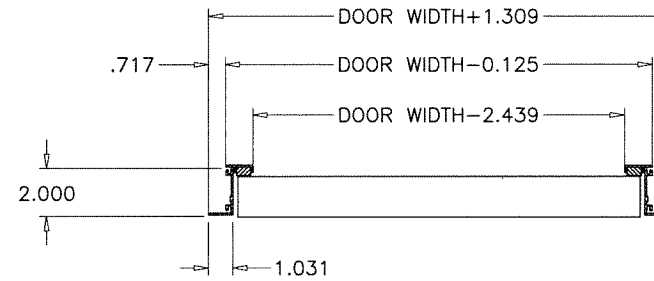
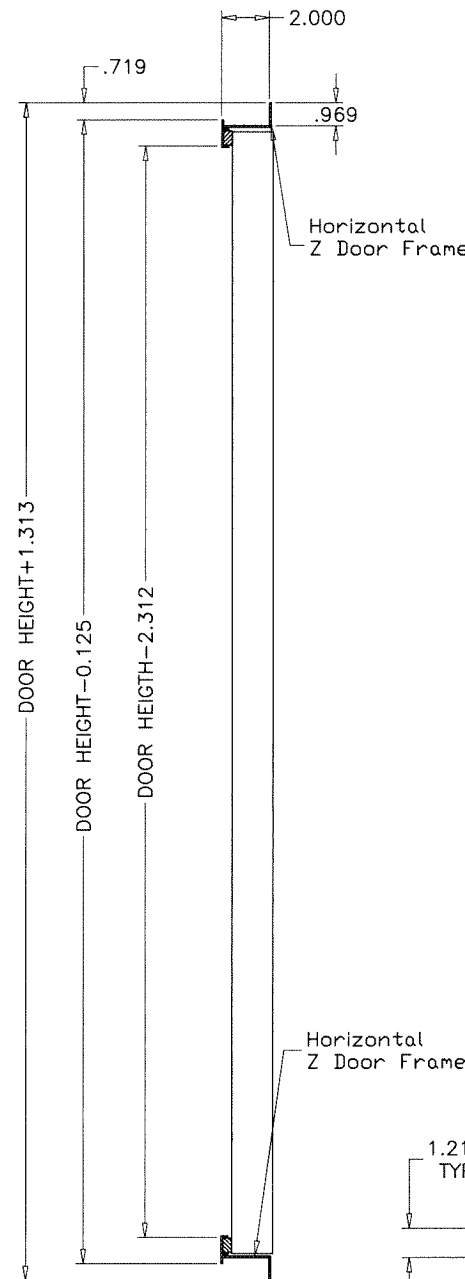
NON THERMAL HORIZONTAL Z FRAME



NON THERMAL DOOR PANEL EDGE EXTRUSION

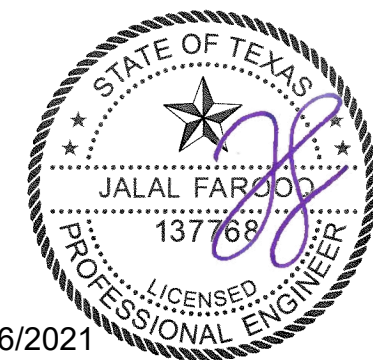
NOTES:  
 UNIT DOOR HEIGHT = UNIT HEIGHT - 6.125  
 PIPE CHASE DOOR HEIGHT = UNIT HEIGHT - 3.125

NOTE:  
 1. Access doors are 2.00" thick, double-wall construction of galvanized sheet steel. The interior and exterior liner construction shall consist of 24 gage sheet steel.  
 2. View area not available on Doors used for NOA constructed units.  
 3. Door must show no water leakage at 6.0" W.C and no air leakage at negative 8.0" W.C



SOLUTION XT ACCESS DOOR OPTION #2

Sealed: 7/6/2021



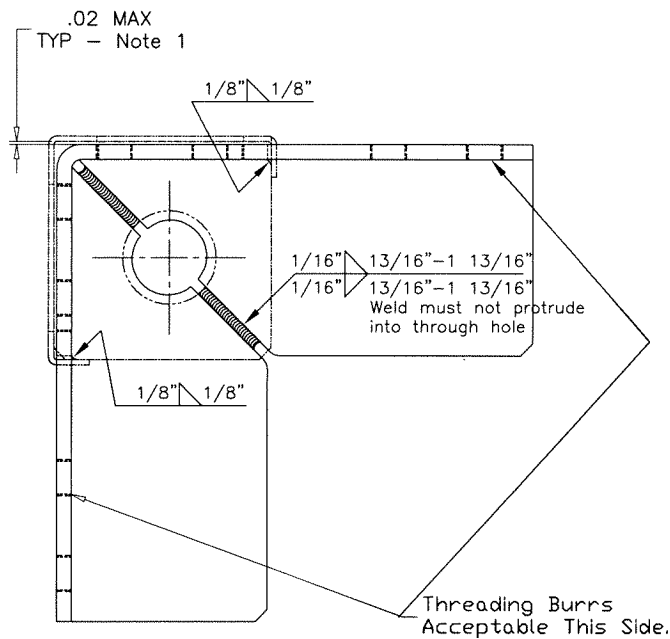
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**AL-FAROOQ CORPORATION**  
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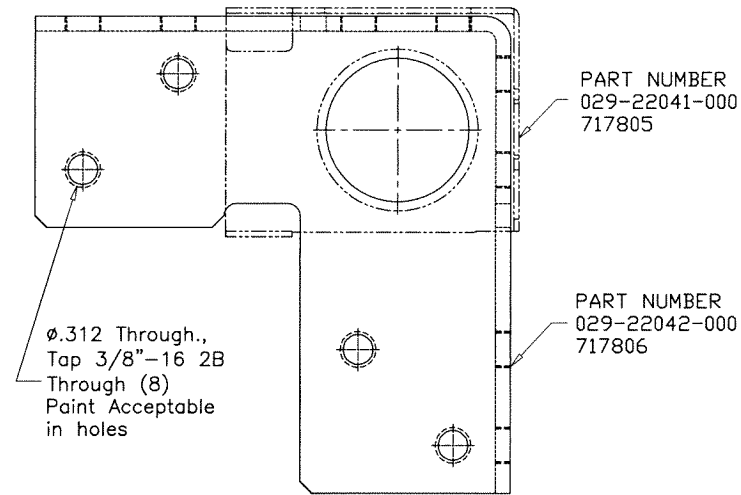
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 dr. by: HAMID  
 chk. by:

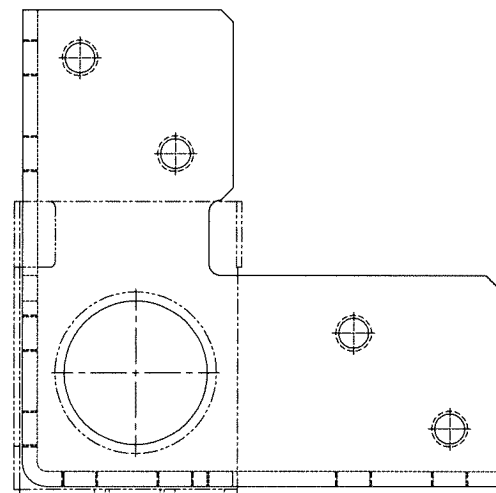
drawing no. 13-06  
 sheet 15 of 17



**TOP VIEW**



**EXTERIOR SIDE VIEW**



**INTERIOR SIDE VIEW**

**CORNER CONNECTOR  
DETAIL**

1/2" = 1"

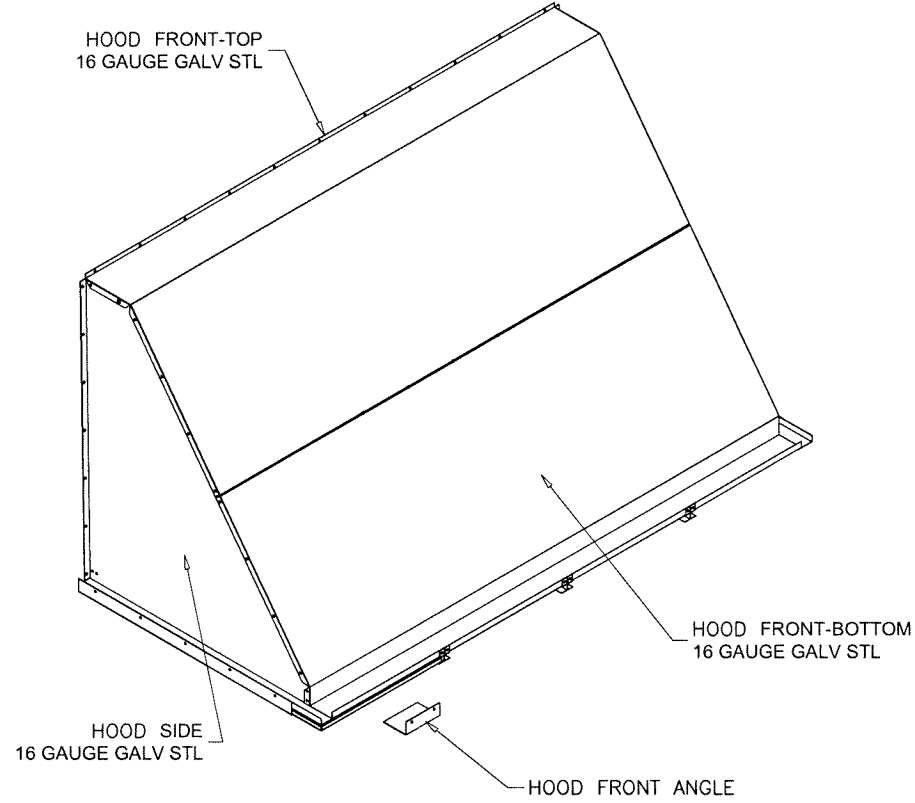
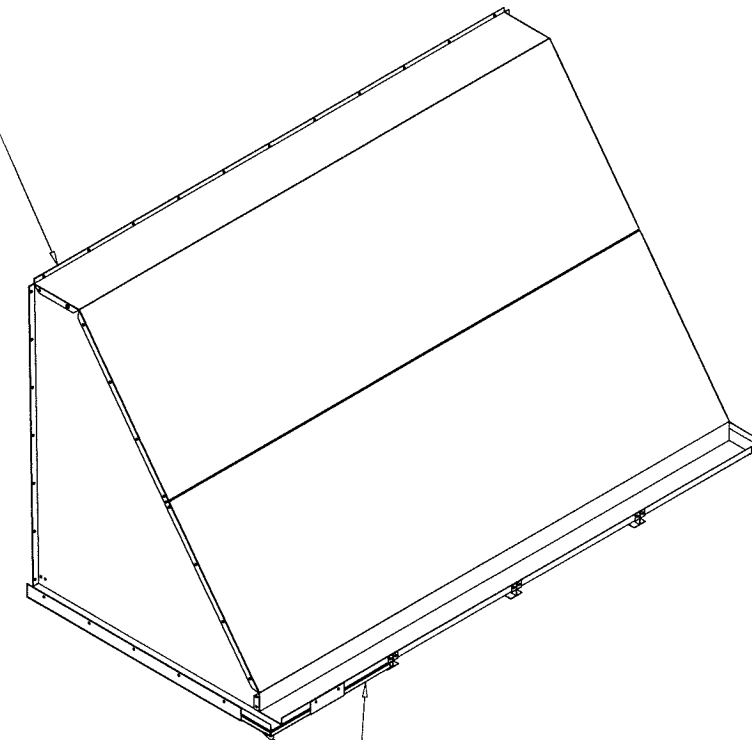
**Notes:**

- 1) Gap can not accept 1/2" wide feeler stock.
- 2) Finish - Annodized Silver Powder Coat Paint.
- 3) Sub-component dimensions are prior to paint.
- 4) 8 gage stamped and formed galvanized steel corner

PART NUMBER  
029-22041-000  
717805

PART NUMBER  
029-22042-000  
717806

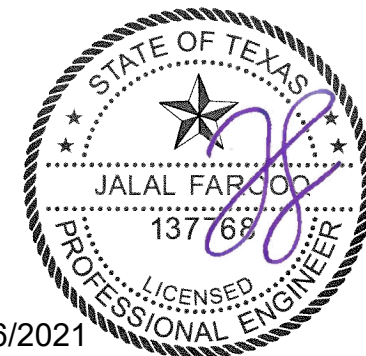
PLACE BUTYL TAPE  
0.75" W X 0.19" THK  
ALONG BACK OF  
HOOD FLANGE & SCURE  
TO UNIT WITH  
0.25-14X0.75LG TYPE A SCREWS



**OUTDOOR AIR  
HOOD ASSEMBLY**

1/2" = 1'-0"

Sealed: 7/6/2021



**af c**  
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scale: -  
dr. by: HAMID  
chk. by:

drawing no.  
**13-06**

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