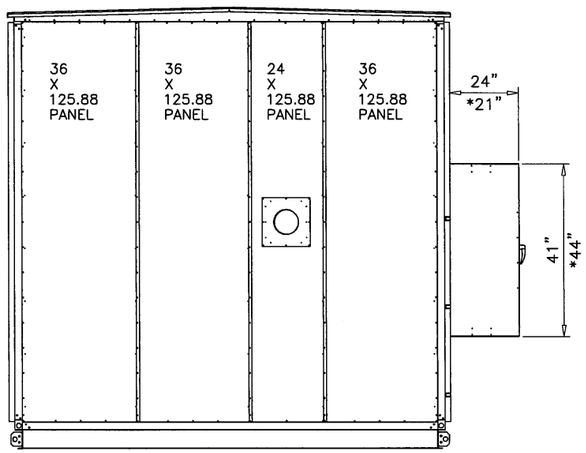
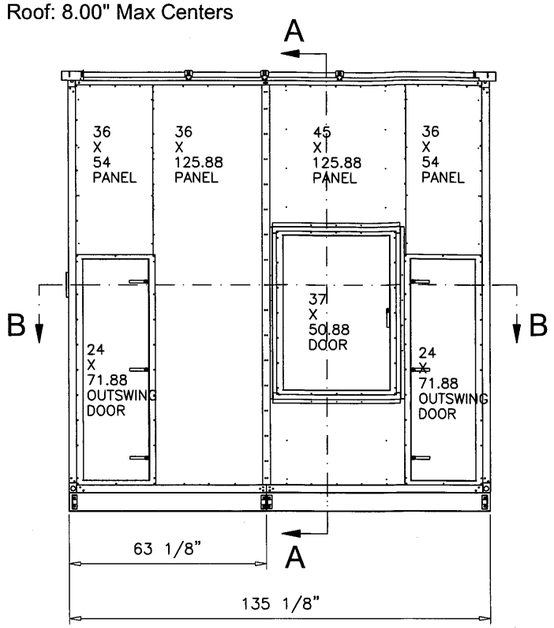
Panels:
Sides & Ends: 16 Ga Outer & Liner
Floor & Roof: 18 Ga Outer & Liner

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

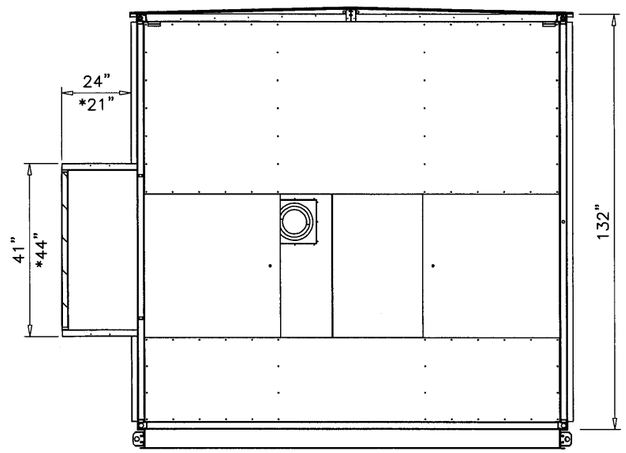
Inside Supports:
Sides: 4 vertical 16 GA Hat Channel per side 086-02108-358
Ends: 3 vertical 12 GA Hat Channel per end 086-02108-869



SIDE ELEV.



FRONT ELEV.



SECTION A–A

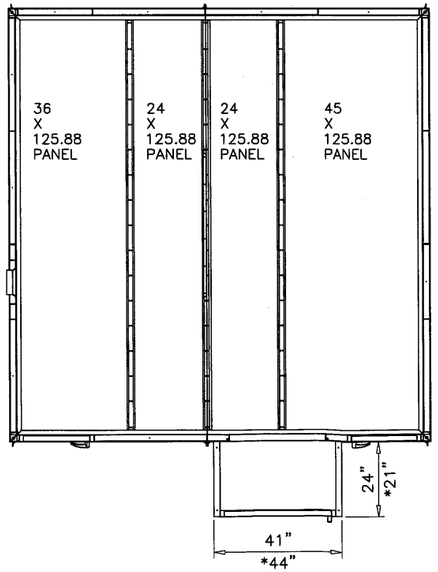
GENERAL NOTES

1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2006 INTERNATIONAL RESIDENTIAL CODE (IRC) AND 2006 INTERNATIONAL BUILDING CODE (IBC) WITH TEXAS REVISIONS. TESTING PERFORMED IN ACCORDANCE WITH FLORIDA PROTOCOLS TAS201, 202 & 203.
2. 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.
3. ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
4. ELECTRICAL AND MECHANICAL DETAILS ARE NOT PART OF THIS APPROVAL.
5. POLYURETHANE SHALL BE RIGID FOAM MIN. DENSITY #2 C.F.
6. MAX. FLAME SPREAD RATING = 5 AS PER ASTM E–84. SMOKE DEVELOPED INDEX = 205. SPONTANEOUS–IGNITION TEMPERATURE = 869°F.
7. ALL STEEL TO BE SHOP PRIMED BEFORE ASSEMBLY.
8. MIN. SOIL BEARING CAPACITY = 2500 PSF.
9. A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
10. 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.

*11. ALTERNATIVE CONSTRUCTED MOTOR CONTROL ENCLOSURE SEE SHEET 17 FOR DETAILS.

ALLOWABLE DESIGN LOAD		
COMPONENT	POSITIVE	NEGATIVE
WALL/FLOOR	65 PSF	65 PSF
ROOF	48.7 PSF	48.7 PSF

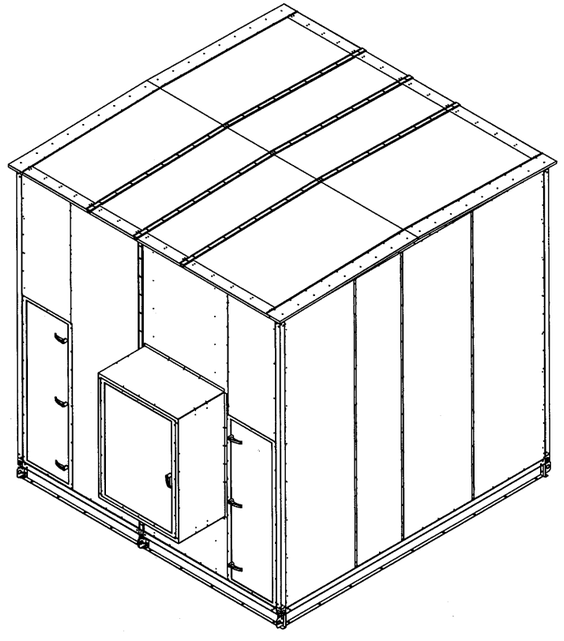
1. THE AIR HANDLING UNIT ASSEMBLY HAS BEEN TESTED AND ANALYZED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE FOR THE MAXIMUM SIZED PANEL DIMENSIONS AND FRAMING DISTANCE SPACING INDICATED ON THE DRAWINGS.
2. THE DETAILS AND SPECIFICATIONS SHOWN ON ALL SHEETS INDICATED REPRESENT THE PRODUCTS AND MATERIALS TESTED AND PROPOSED FOR WATER, AIR, IMPACT, CYCLIC, AND UNIFORM STATIC AIR PRESSURE TESTING IN ACCORDANCE WITH FLORIDA BUILDING CODE PROTOCOLS TAS 201, TAS 202, AND TAS 203 FOR LARGE MISSILE IMPACT. ADDITIONALLY THE PRODUCT WAS TESTED IN ACCORDANCE WITH ASTM E72 FOR COMPONENT SYSTEM RACKING AND ASTM E8 FOR TENSION TESTING OF THE MATERIAL COMPONENTS.
3. ATTACHMENT TO THE ROOF AND THE ROOF CURB TO PREVENT SLIDING AND OVERTURNING OF THE AIR HANDLING UNIT IS NOT PART OF THE SCOPE OF THIS PRODUCT APPROVAL. THESE ELEMENTS SHALL BE REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENT.
4. IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY STRUCTURAL INTEGRITY OF THE ROOF/BUILDING STRUCTURE TO SUPPORT ALL LOADS (WIND AND STATIC) SUPERIMPOSED ON THE STRUCTURE BY THE AIR HANDLING UNIT.
5. INTERIOR MOUNTED MECHANICAL EQUIPMENT IS NOT PART OF THIS PRODUCT APPROVAL AND SHALL BE DESIGNED AND INSTALLED BY YORK/JOHNSON CONTROLS IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. INTERNAL SUPPORT OF THESE INTERIOR COMPONENTS IS ALSO OUTSIDE THE SCOPE OF THIS PRODUCT APPROVAL.
6. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND SHALL NOT VARY UNLESS SPECIFICALLY STATED ON THE DRAWINGS.
7. ALL METAL THICKNESSES FOR PANELS, STRUCTURAL SUPPORT ELEMENTS AND OTHER COMPONENTS SHALL BE THE MINIMUM SPECIFIED GAGES (SEE SHEET 3 OF 17 FOR METAL GAGE DIMENSIONAL INFORMATION) OR DIMENSIONS INDICATED ON THE DRAWINGS.
8. ALL SHEET STEEL COMPONENTS SHALL BE MINIMUM 44 KSI SHEET STEEL AT THE SPECIFIED THICKNESS THAT CONFORMS TO ASTM A653, WITH G90U GALVANIZED FINISH.



SECTION B–B

PLAN VIEW

ROOF PANELS AND FLOOR PANELS ARE SAME LENGTH IN APPROVAL.



JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED
PROFESSIONAL ENGINEER

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

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COOLER\13–06YIC

SOLUTION XT ROOFTOP AIR HANDLING UNIT

YORK/JOHNSON CONTROLS INC.
15901 S.W. 29TH STREET, SUITE 801
MIRAMAR, FL. 33027
TEL. (954) 389–9675 FAX. (954) 389–9687

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no	date	by	description

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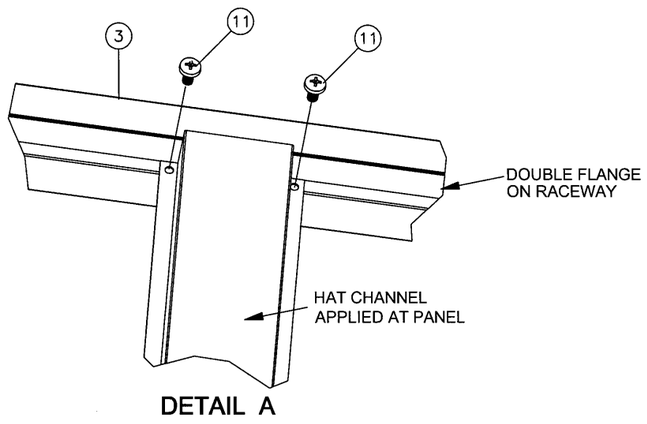
scale: 1/4"=1–0"
dr. by: HAMID
chk. by:

drawing no. 13–06

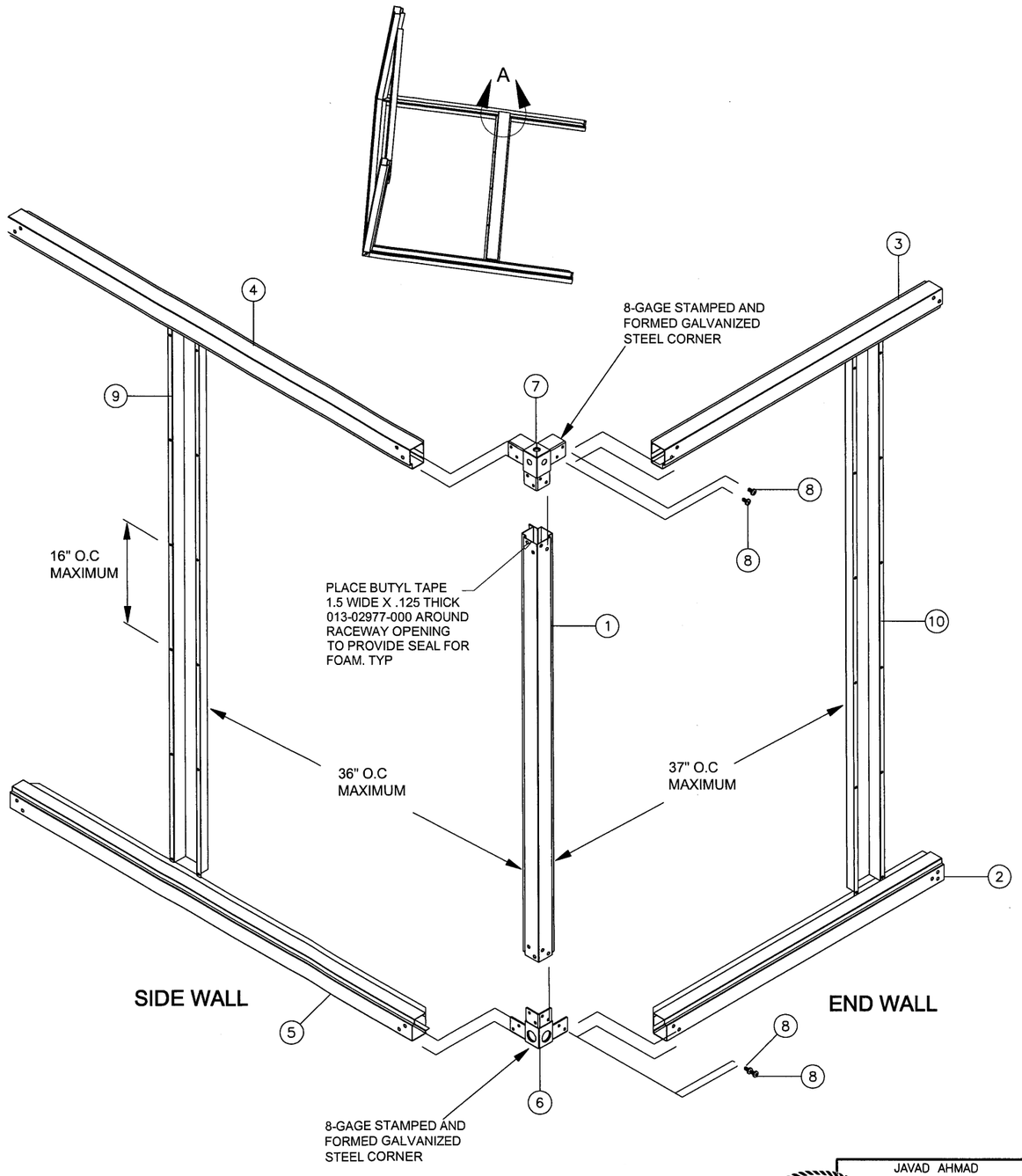
Corner Assembly Instructions:

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.



DETAIL A



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

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED
PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

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15901 S.W. 29TH STREET, SUITE 801
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TEL. (954) 389-9675 FAX. (954) 389-9687

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sheet 2 of 17

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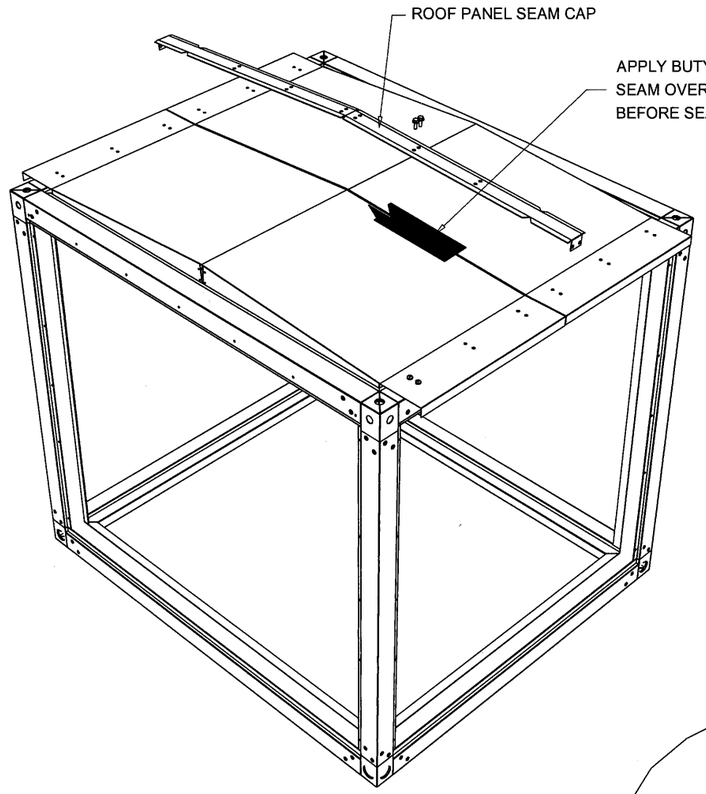

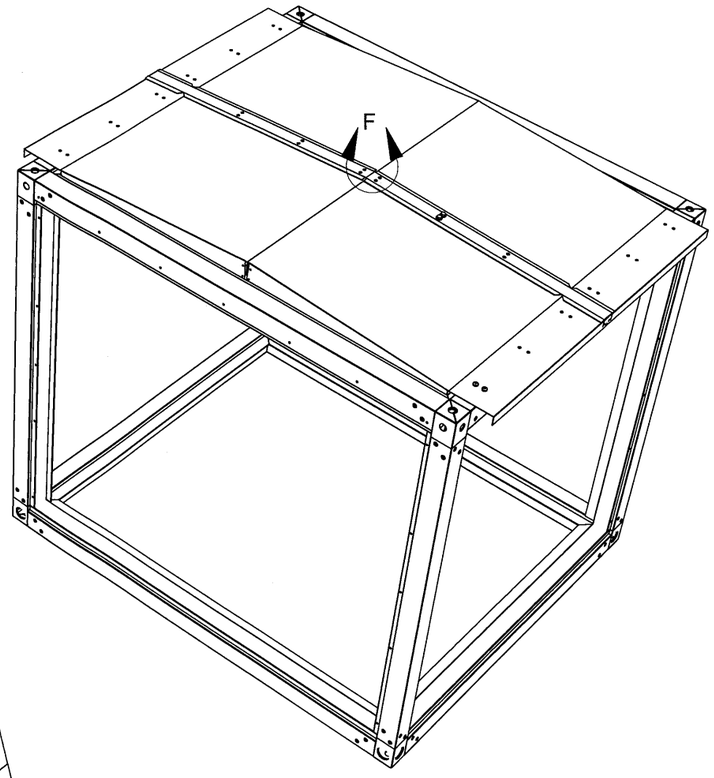

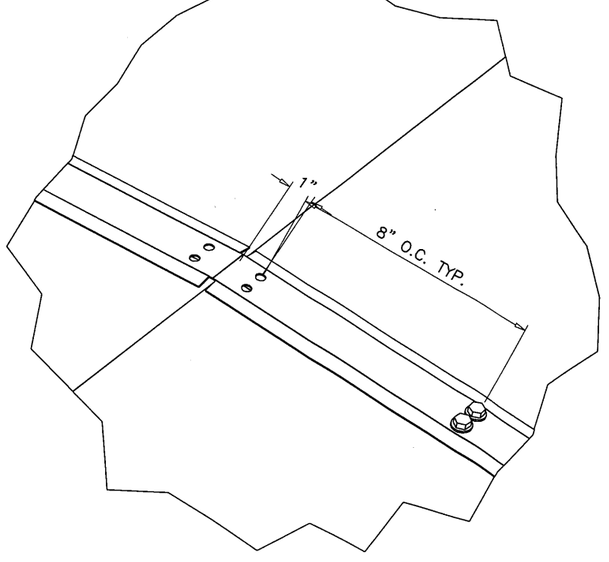

DETAIL F

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	YIELD STRENGTH
	(IN.)	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

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

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ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

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MIRAMAR, FL. 33027
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chk. by:

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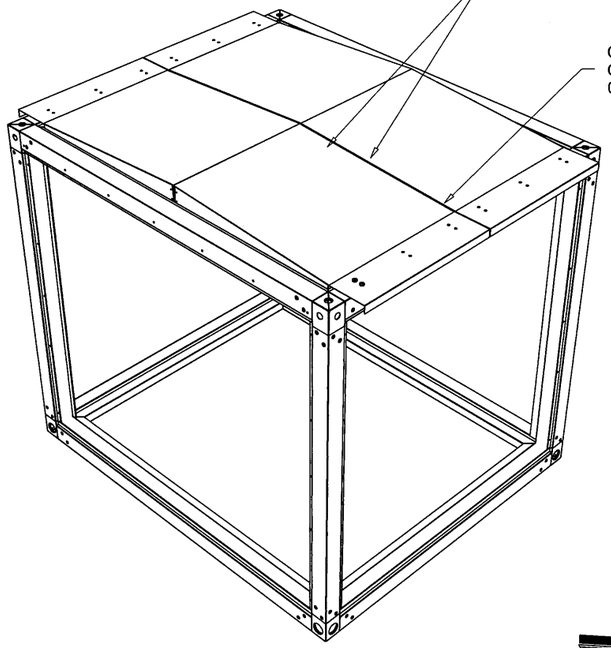
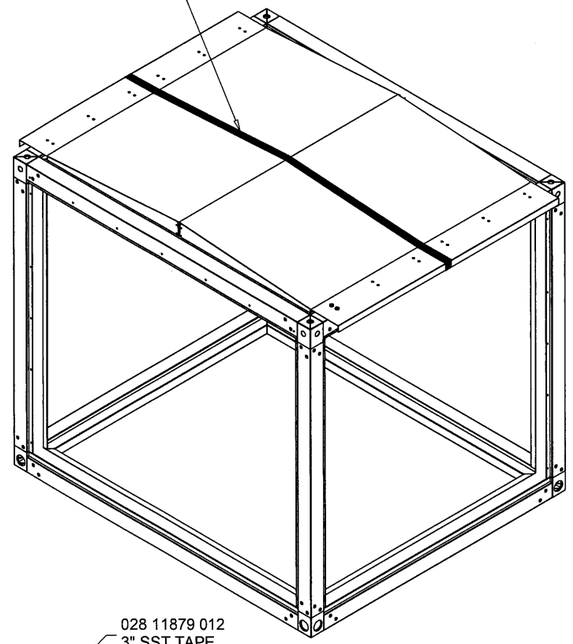


CLEAN BOTH SIDES OF SEAM WITH 50% RUBBING ALCHOHOL WATER MIX OR EQUAL. ALLOW CLEANED AREA TO DRY

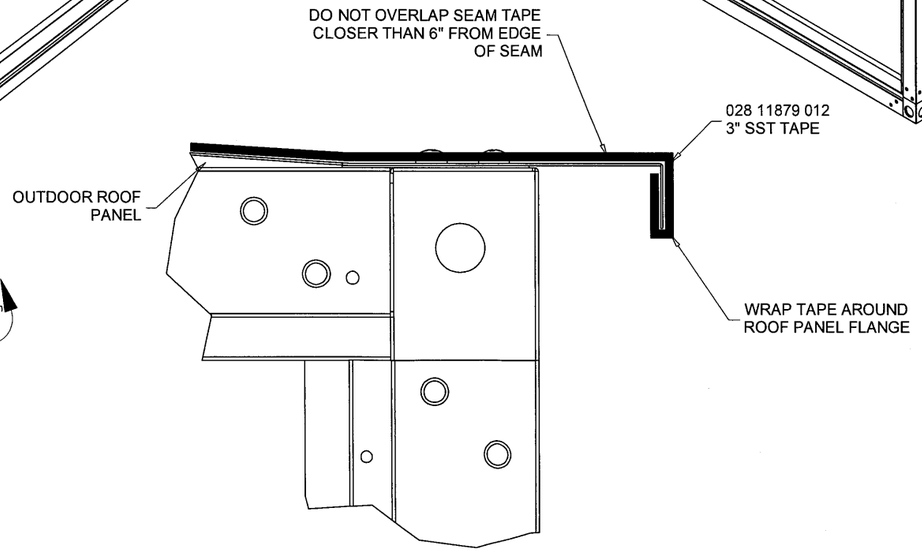
CAULK SEAM BETWEEN ALL OUTDOOR ROOF PANELS WITH 013-03317-010 OR EQUAL

OVERLAP SEAM TAPE 1"-2" AS NEEDED.

KEEP OVERLAP NO CLOSER THAN 6" FROM END OF SEAM.



ROOF SEAM TAPE
3" SST

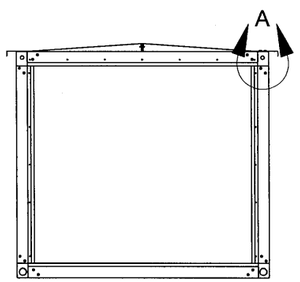


DO NOT OVERLAP SEAM TAPE CLOSER THAN 6" FROM EDGE OF SEAM

028 11879 012
3" SST TAPE

OUTDOOR ROOF PANEL

WRAP TAPE AROUND ROOF PANEL FLANGE



DETAIL A

STANDARD METAL THICKNESS		
METAL GAGE	MIN. THICKNESS	YIELD STRENGTH
	(IN.)	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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TEXAS PE # 106516

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JAVAD AHMAD
106516
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TEL. (954) 389-9675 FAX. (954) 389-9687

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chk. by:

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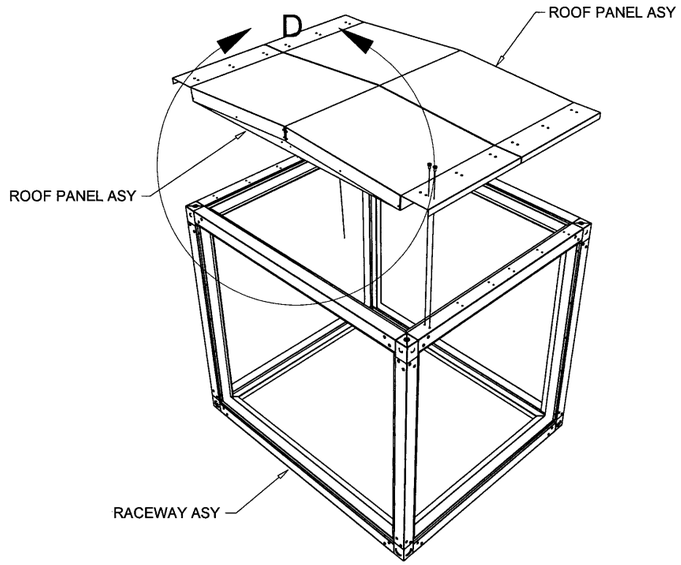
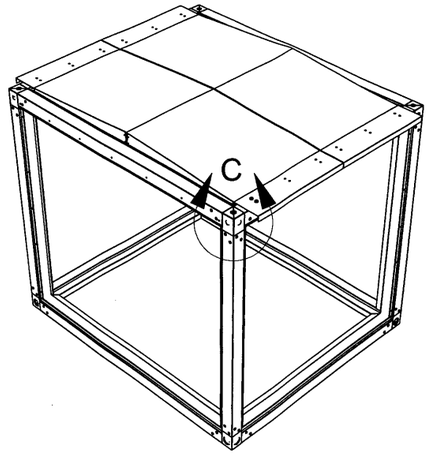
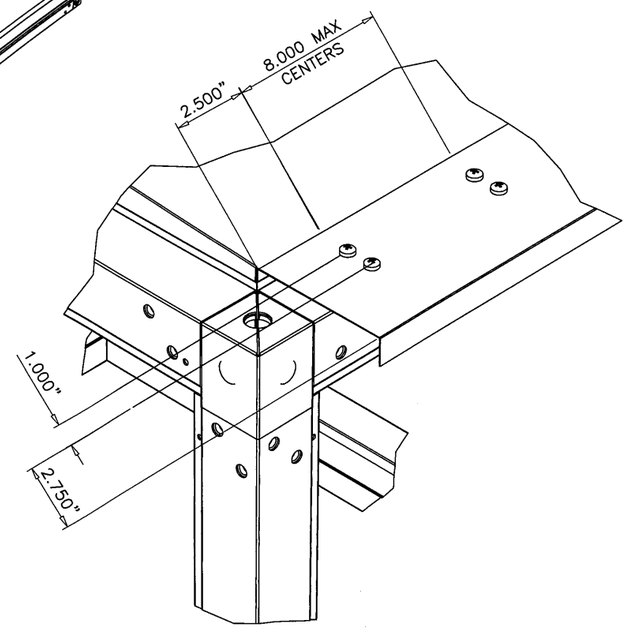
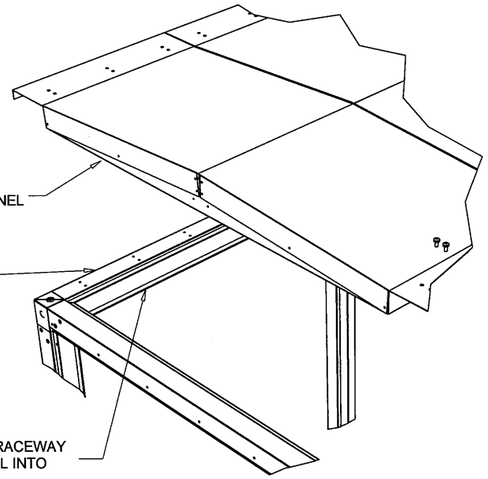
13–06







DETAIL C



DETAIL D

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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TEXAS PE # 106516

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MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

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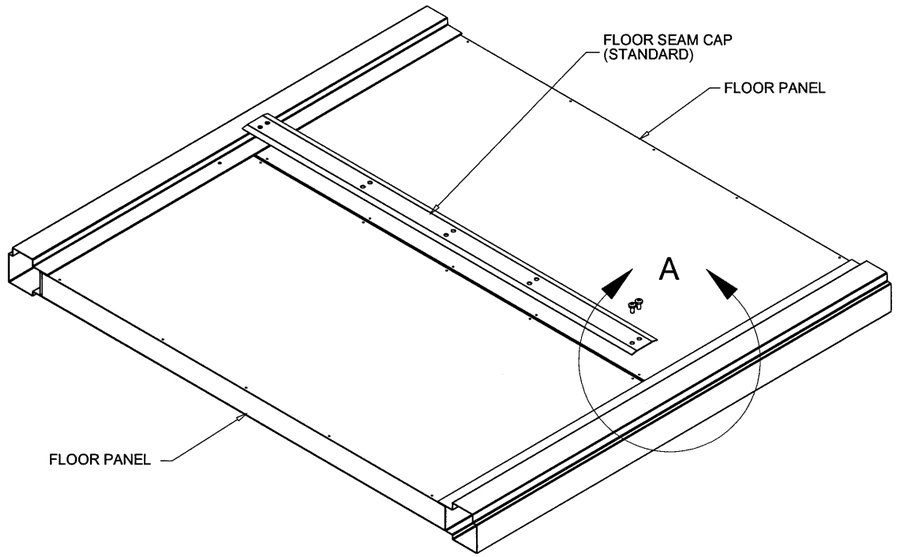
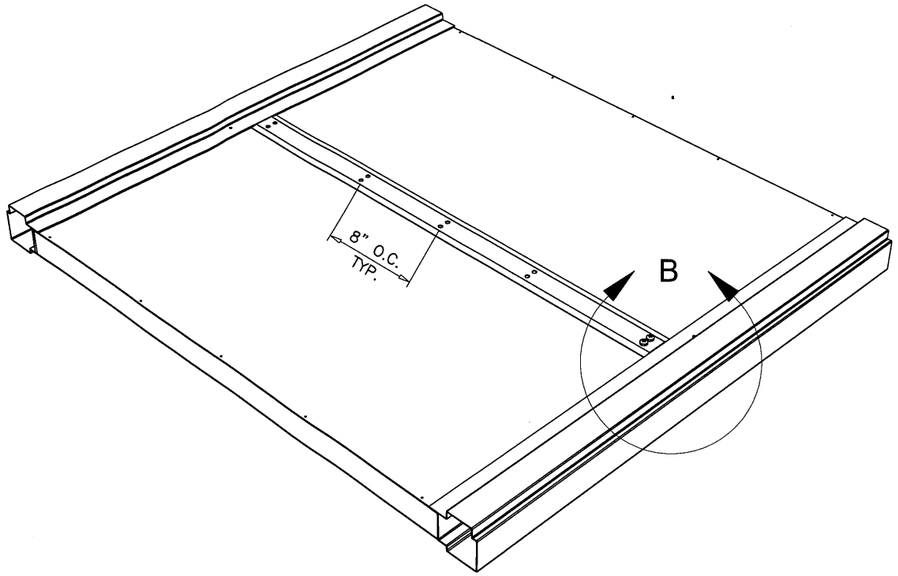
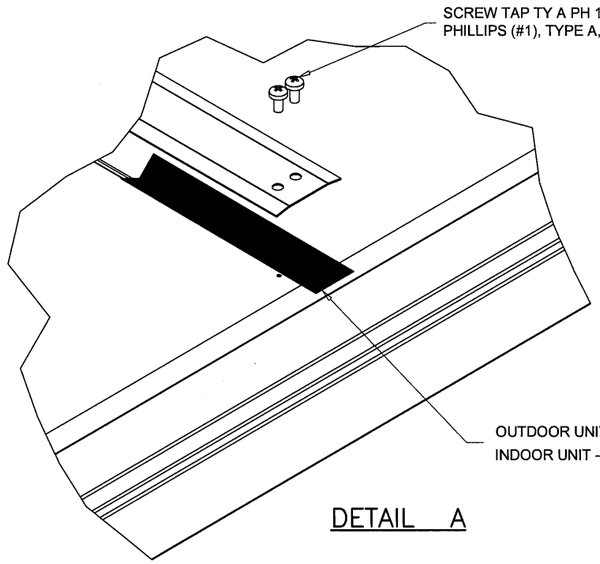
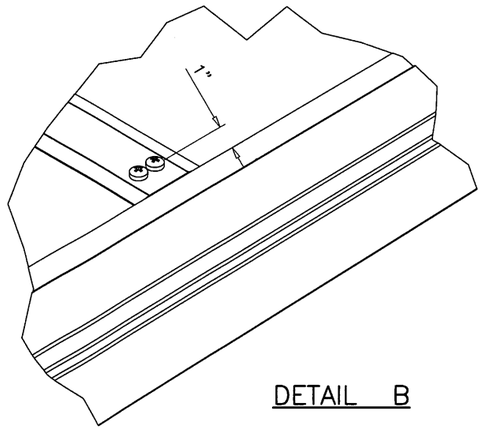






DETAIL A



DETAIL B

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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TEXAS PE # 106516

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ENGINEERS & PRODUCT DEVELOPMENT
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YORK/JOHNSON CONTROLS INC.
15901 S.W. 29TH STREET, SUITE 801
MIRAMAR, FL. 33027
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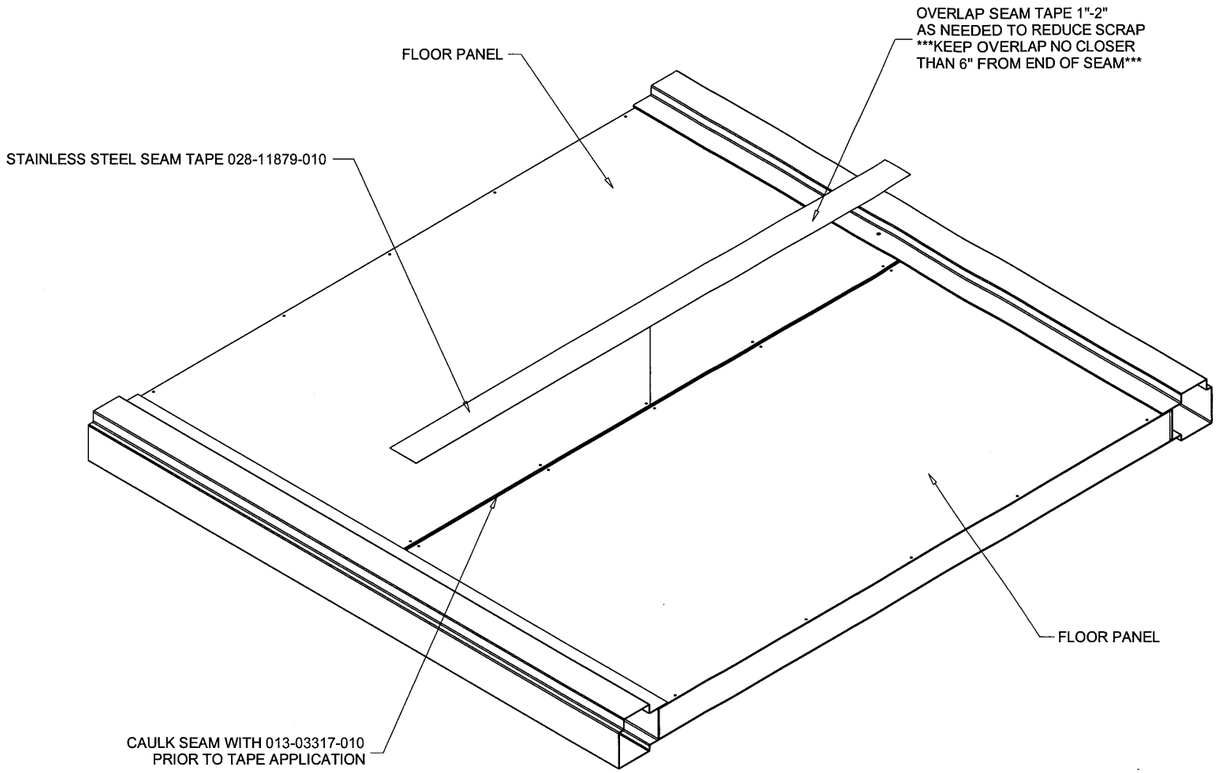

STANDARD FLOOR PANEL SEAM TAPE APPLICATION
THIS APPLIES FOR BOTH XTI & XTO UNITS.
CLEAN BOTH SIDES OF SEAM WITH 50% RUBBING ALCHOHOL WATER MIX OR EQUAL. ALLOW TO DRY.
CAULK ALONG FLOOR PANEL SEAM.
APPLY SEAM TAPE EVENLY ALONG ENTIRE FLOOR PANEL SEAM.

FLOOR SEAM TAPE ASSEMBLY OPTION #2

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TEXAS PE # 106516

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no	date	by	description

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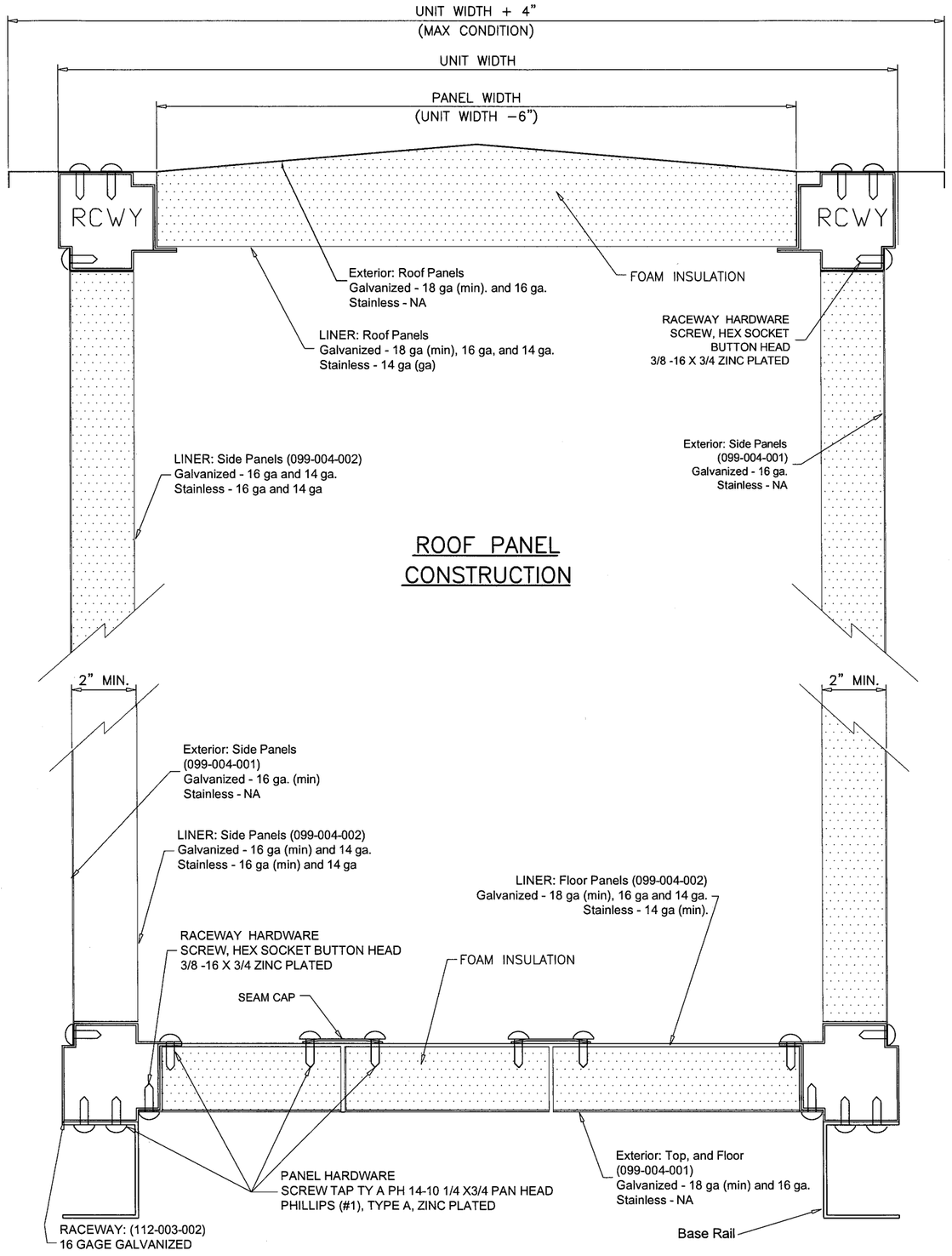
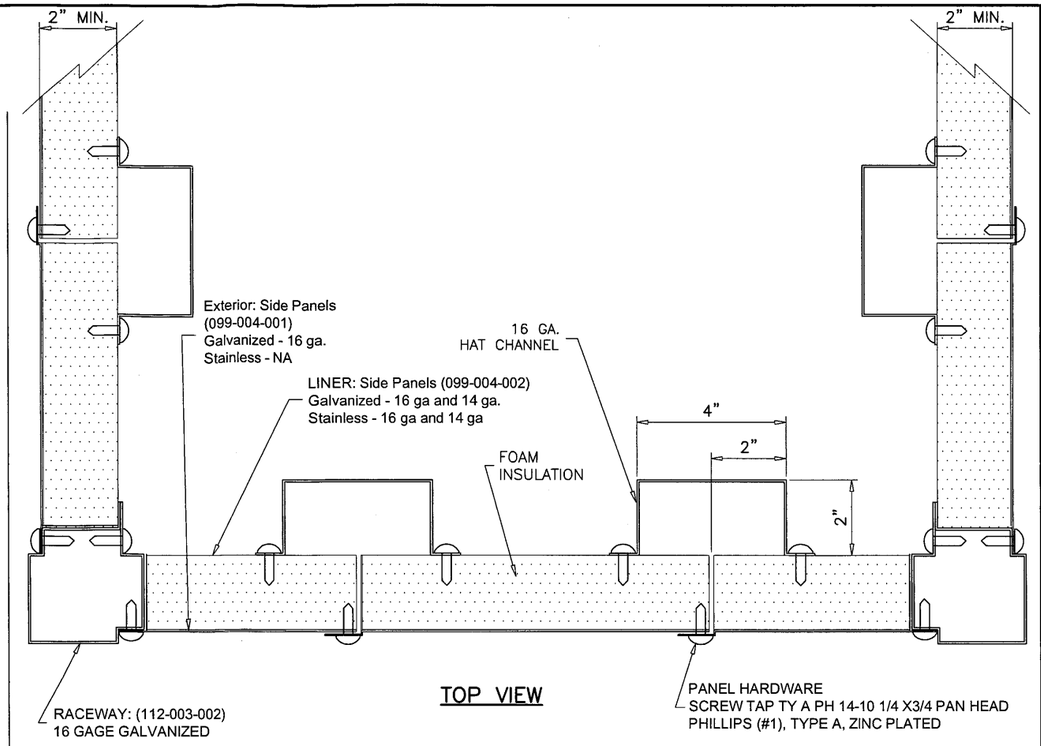


ROOF PANEL CONSTRUCTION

FLOOR PANEL CONSTRUCTION



TOP VIEW

WALL PANEL CROSS SECTION

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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ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

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SOLUTION XT ROOFTOP AIR HANDLING UNIT

YORK/JOHNSON CONTROLS INC.
15901 S.W. 29TH STREET, SUITE 801
MIRAMAR, FL. 33027
TEL. (954) 389-9675 FAX. (954) 389-9687

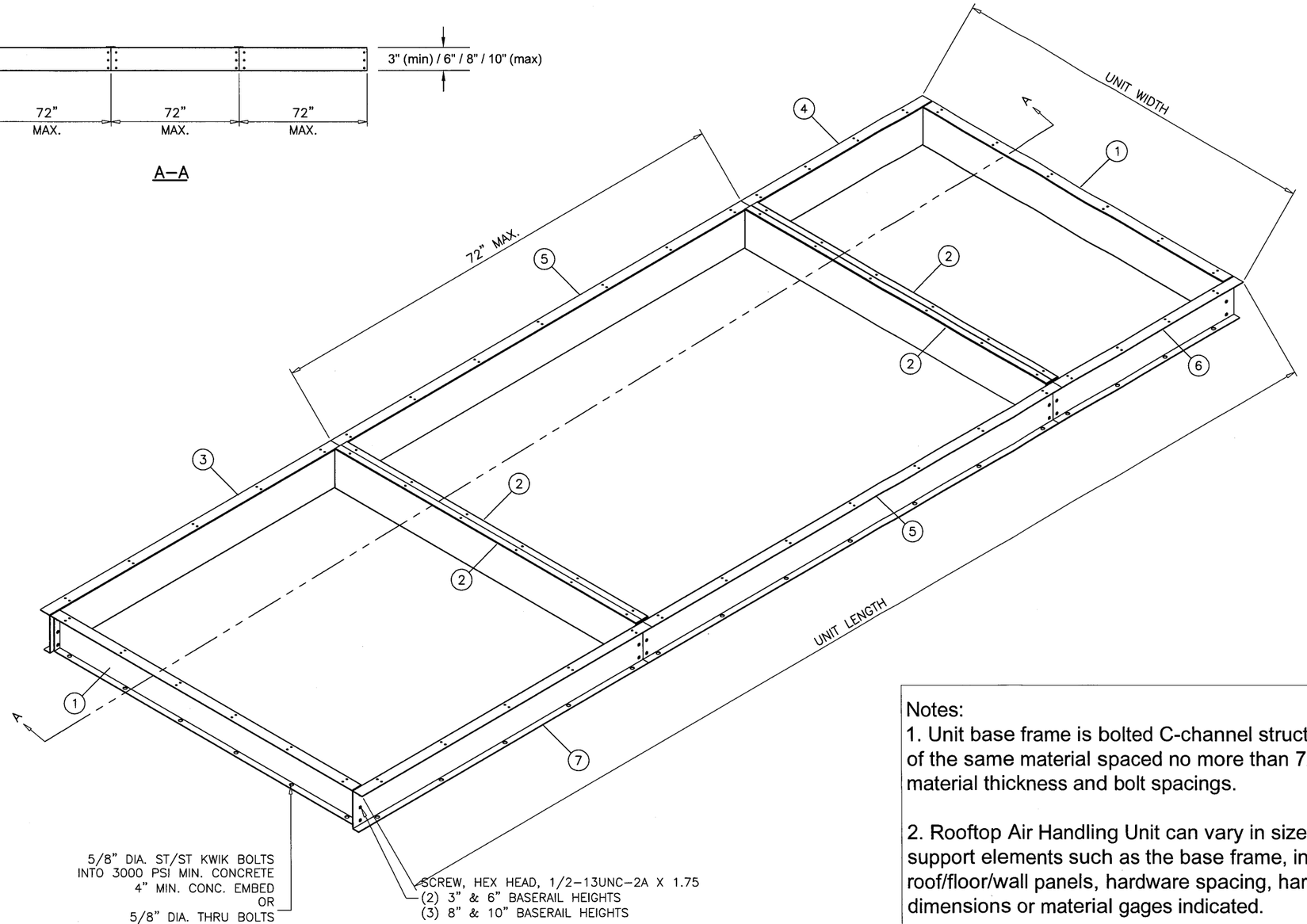
revisions:

no	date	by	description

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

drawing no. 13-06

A–A



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.

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

SOLUTION XT
BASERAIL ASSEMBLY

Date & Time: 04/13/15 12:04

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

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SOLUTION XT ROOFTOP AIR HANDLING UNIT

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15901 S.W. 29TH STREET, SUITE 801
MIRAMAR, FL. 33027
TEL. (954) 389–9675 FAX. (954) 389–9687

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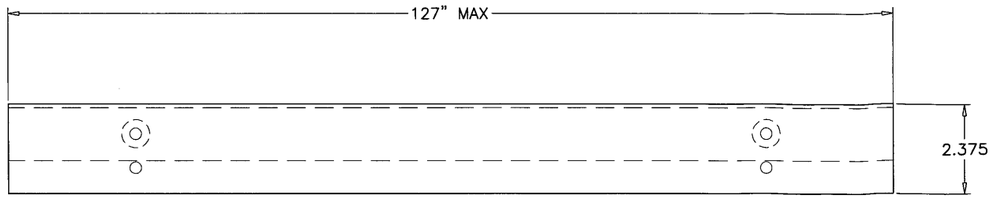
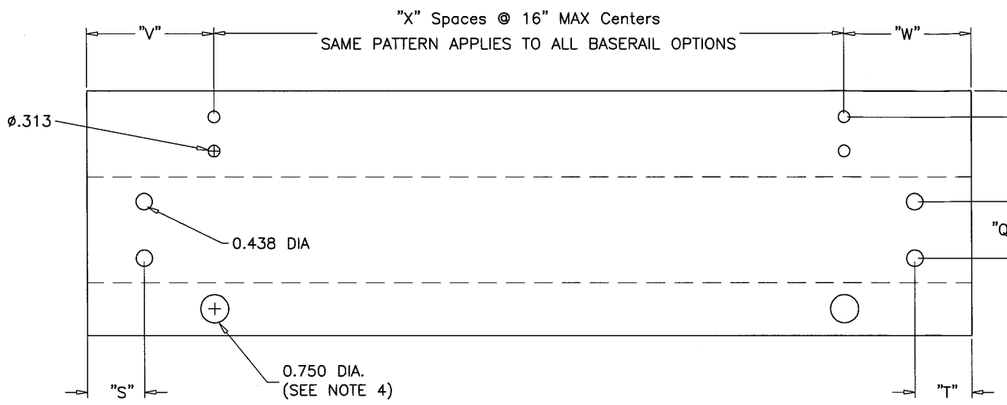
no	date	by	description

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

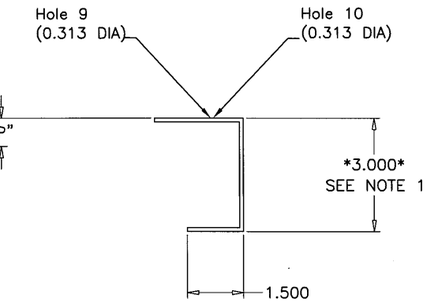
drawing no.
13–06



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

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

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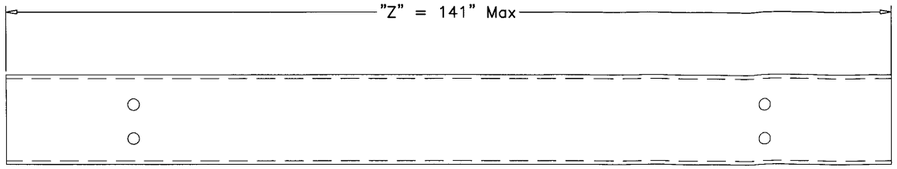
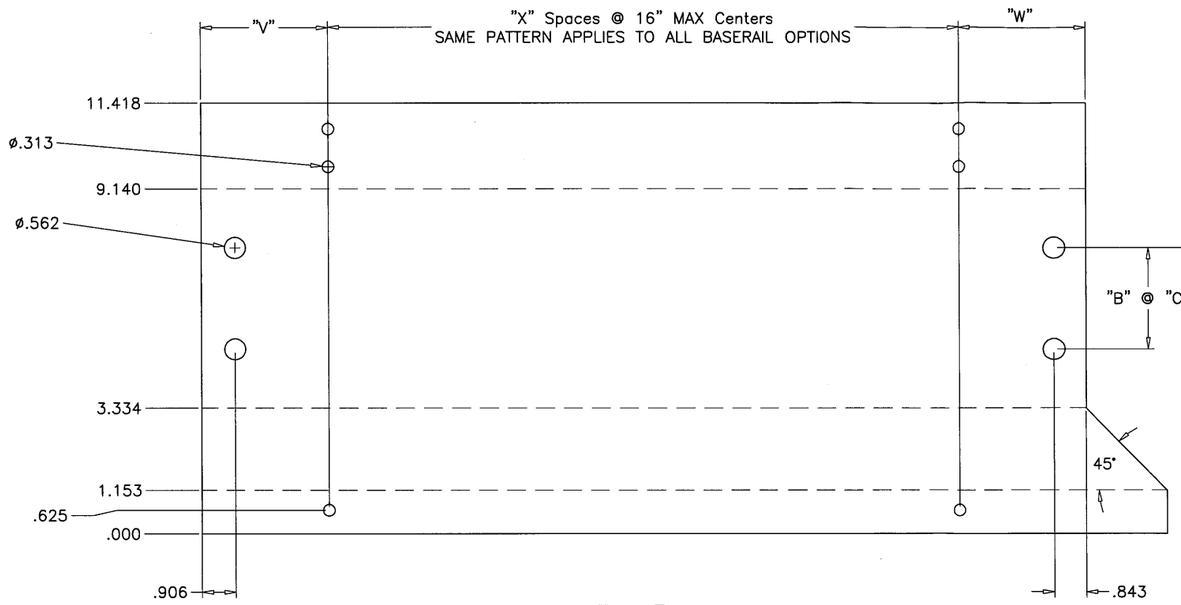
chk. by:

drawing no. 13-06

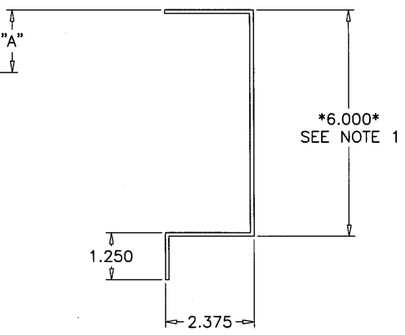
CALCULATION CHART AND DATA			
VERTICAL HOLE DATA			
BASERAIL HEIGHT	"A"	"B" SPACES	"C"
6"	1.657	1	2.687
8"	1.657	2	2.687
10"	1.657	2	2.687



FORMED TOP VIEW



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

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

Date & Time: 04/13/15 12:04

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ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33174
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SOLUTION XT ROOFTOP AIR HANDLING UNIT

YORK/JOHNSON CONTROLS INC.
15901 S.W. 29TH STREET, SUITE 801
MIRAMAR, FL. 33027
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chk. by:

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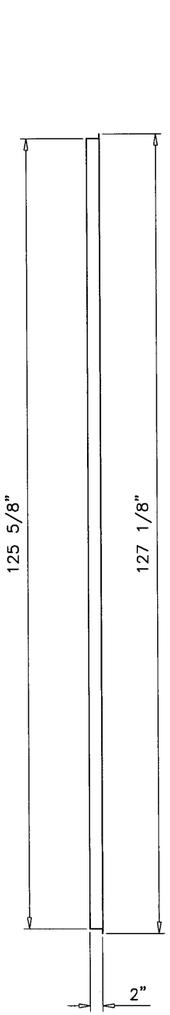
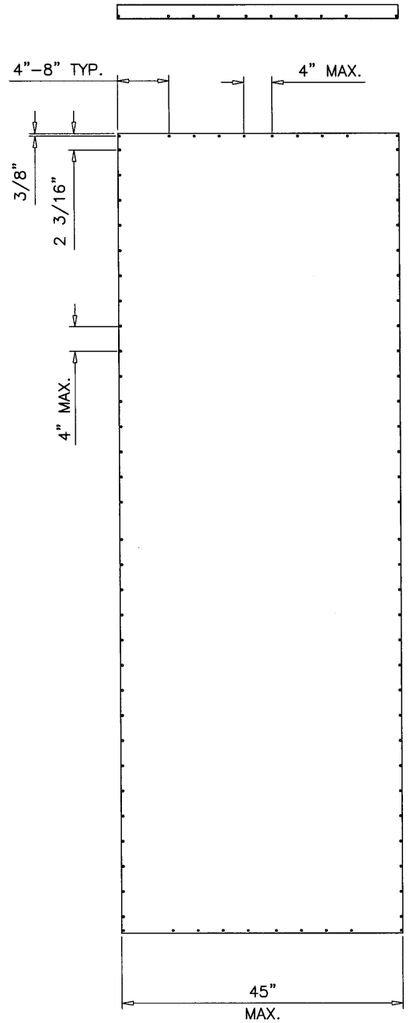
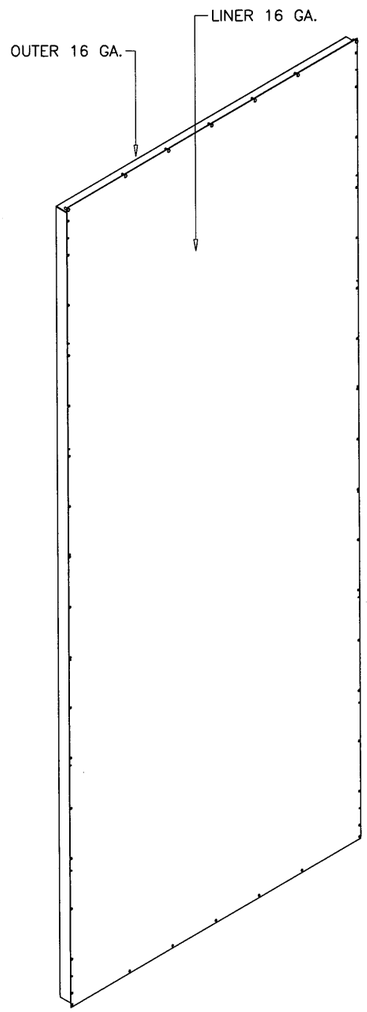
TOP VIEW



SIDE VIEW



FRONT VIEW

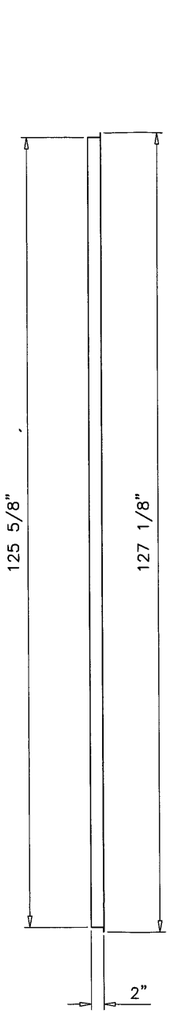


ISOMETRIC VIEW

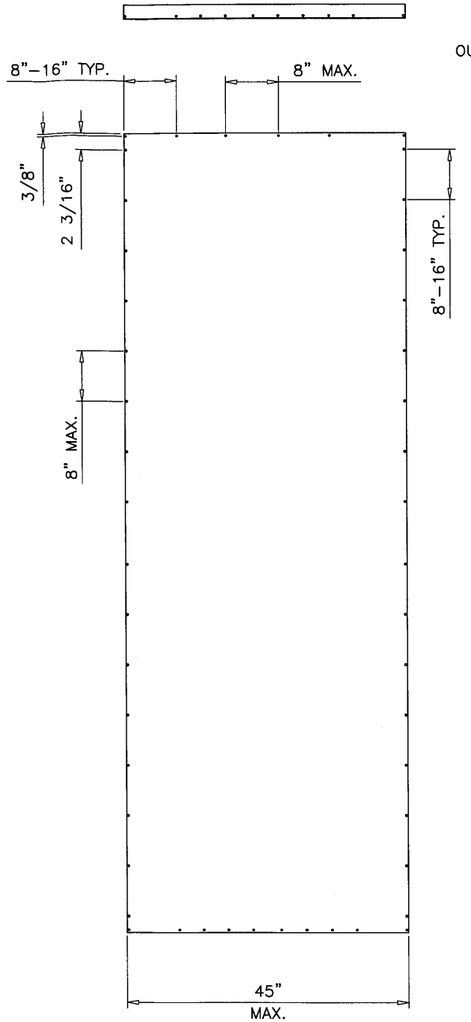
SOLUTION XT–45W
WALL PANEL ASSY.

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

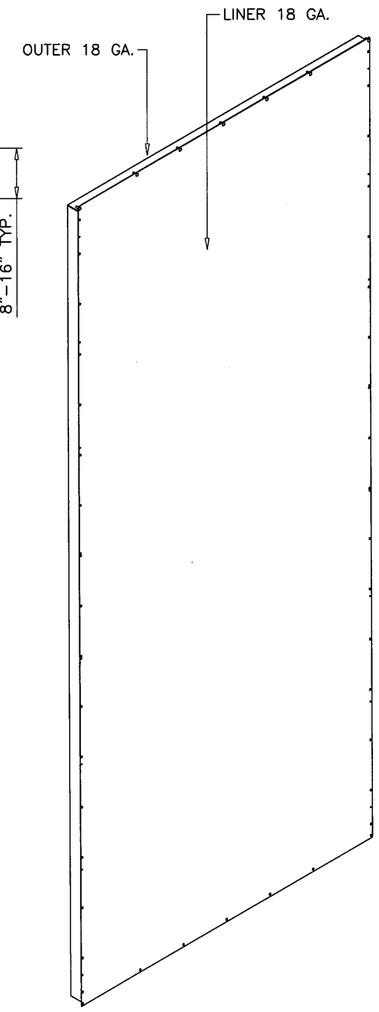
TOP VIEW



SIDE VIEW



FRONT VIEW



ISOMETRIC VIEW

SOLUTION XT–45W
FLR/ROOF PANEL ASSY.

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

Date & Time: 04/13/15 12:04

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ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

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SOLUTION XT ROOFTOP AIR HANDLING UNIT

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TEL. (954) 389-9675 FAX. (954) 389-9687

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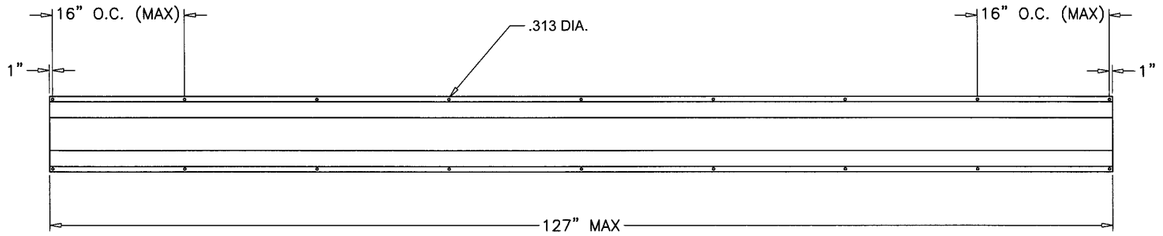
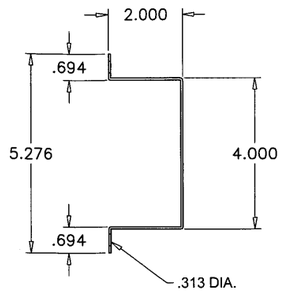


FLAT VIEW



FORMED SIDE VIEW

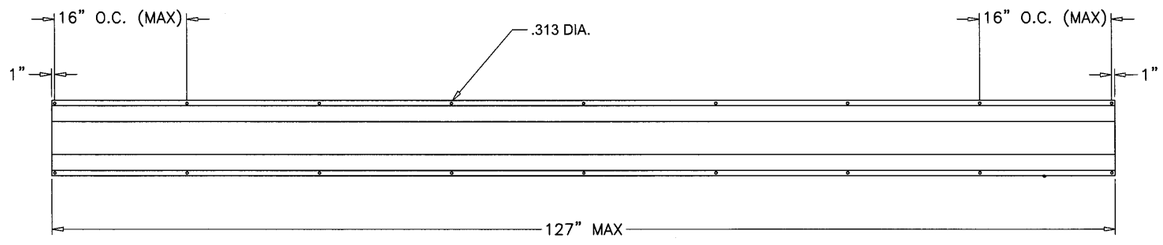
NOTES:

1. Internal steel hat channel supports shall be 16 gage minimum thickness galvanized steel.

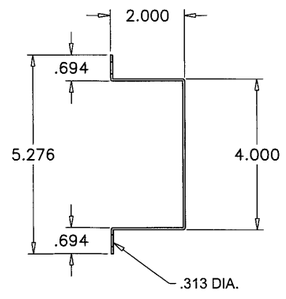
2. The maximum spacing for the internal supports shall be 36" O.C. and maximum length shall not exceed 127".

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

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

Date & Time: 04/13/15 12:06

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ENGINEERS & PRODUCT DEVELOPMENT
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SOLUTION XT ROOFTOP AIR HANDLING UNIT

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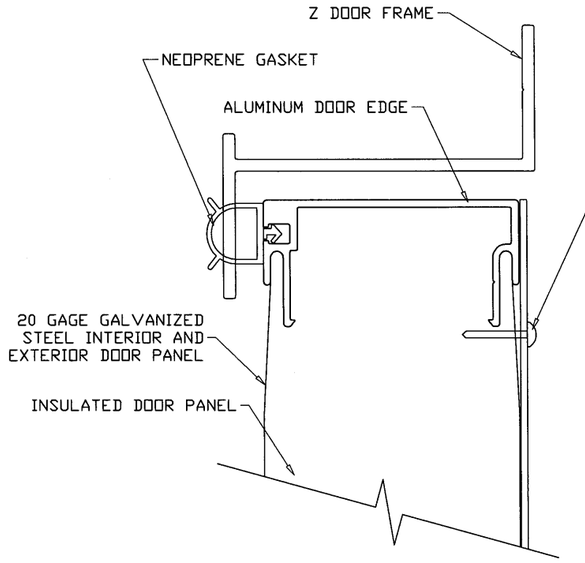
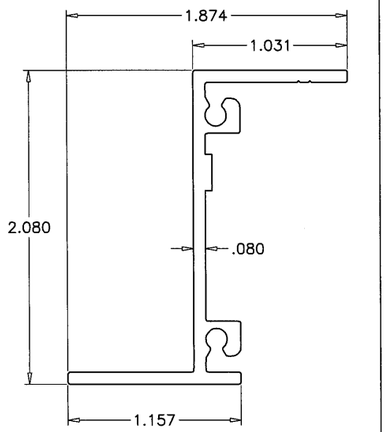
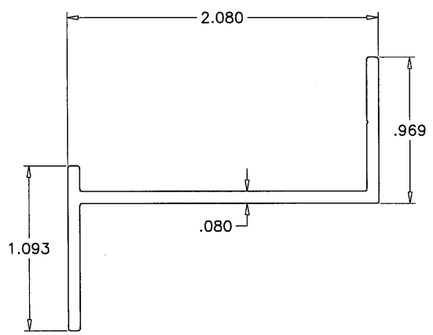


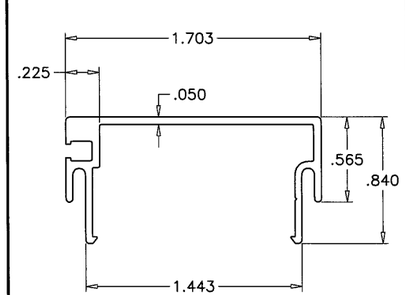
ENLARGED DOOR EDGE DETAIL



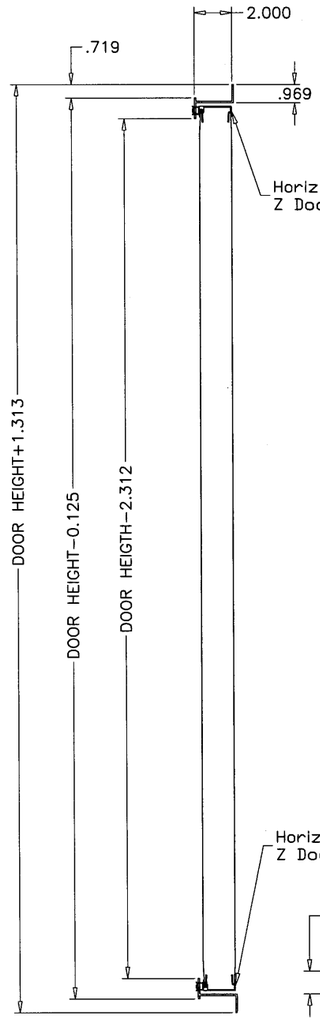
NON THERMAL VERTICAL Z FRAME

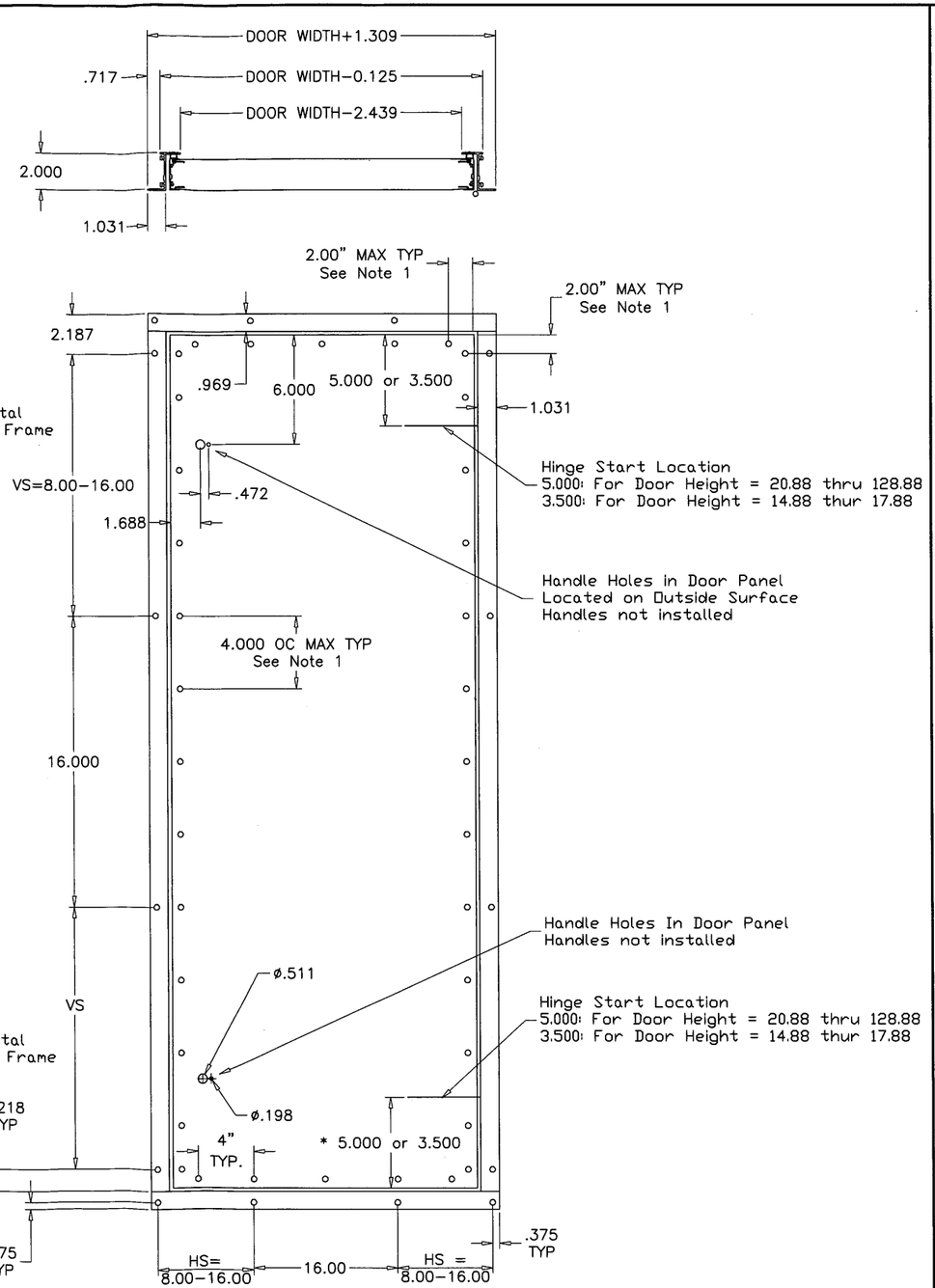


NON THERMAL HORIZONTAL Z FRAME



NON THERMAL DOOR PANEL EDGE EXTRUSION





NOTES:
UNIT DOOR HEIGHT = UNIT HEIGHT – 6.125
PIPE CHASE DOOR HEIGTH = 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 conssit of 20 gage sheet steel. Additionally, an 18 gage steel exterior panel shall be secred 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

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

Date & Time: 04/13/15 12:06

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ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

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SOLUTION XT ROOFTOP AIR HANDLING UNIT

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MIRAMAR, FL. 33027
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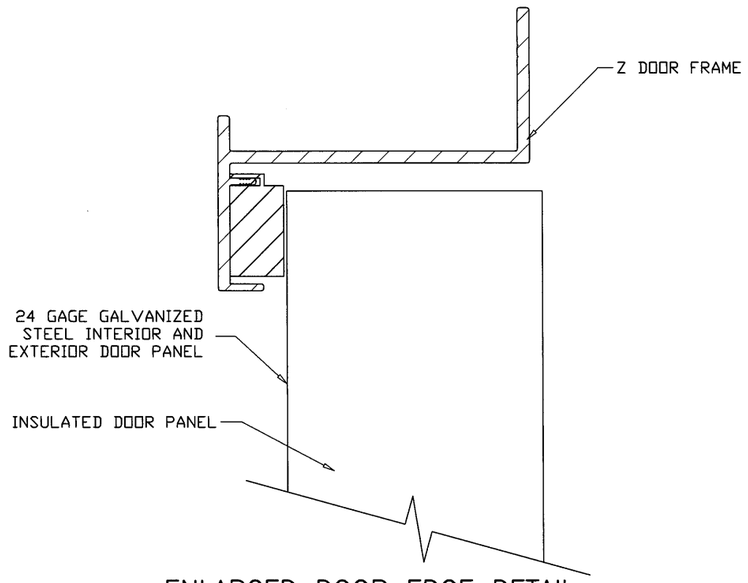
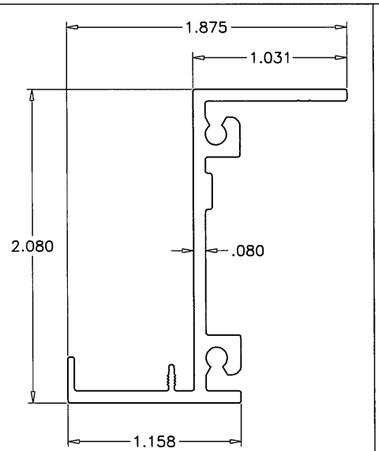
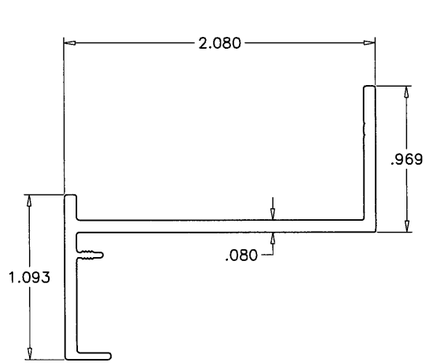


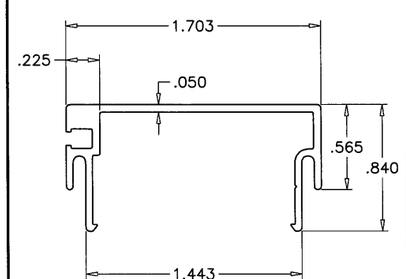
ENLARGED DOOR EDGE DETAIL



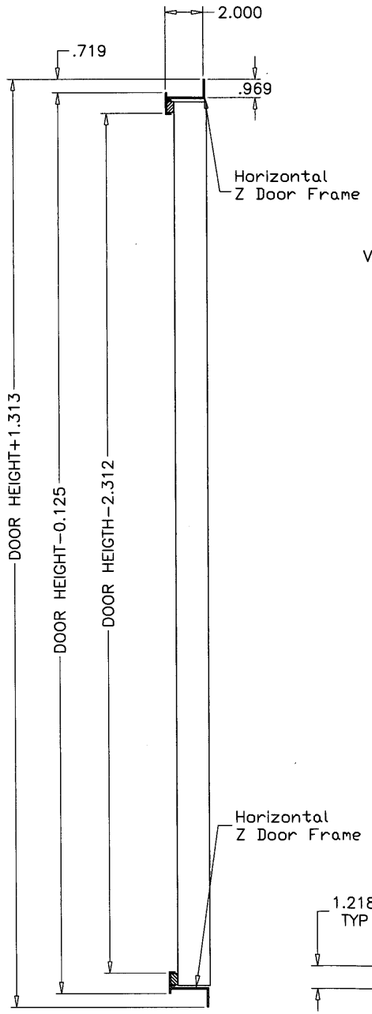
NON THERMAL VERTICAL Z FRAME

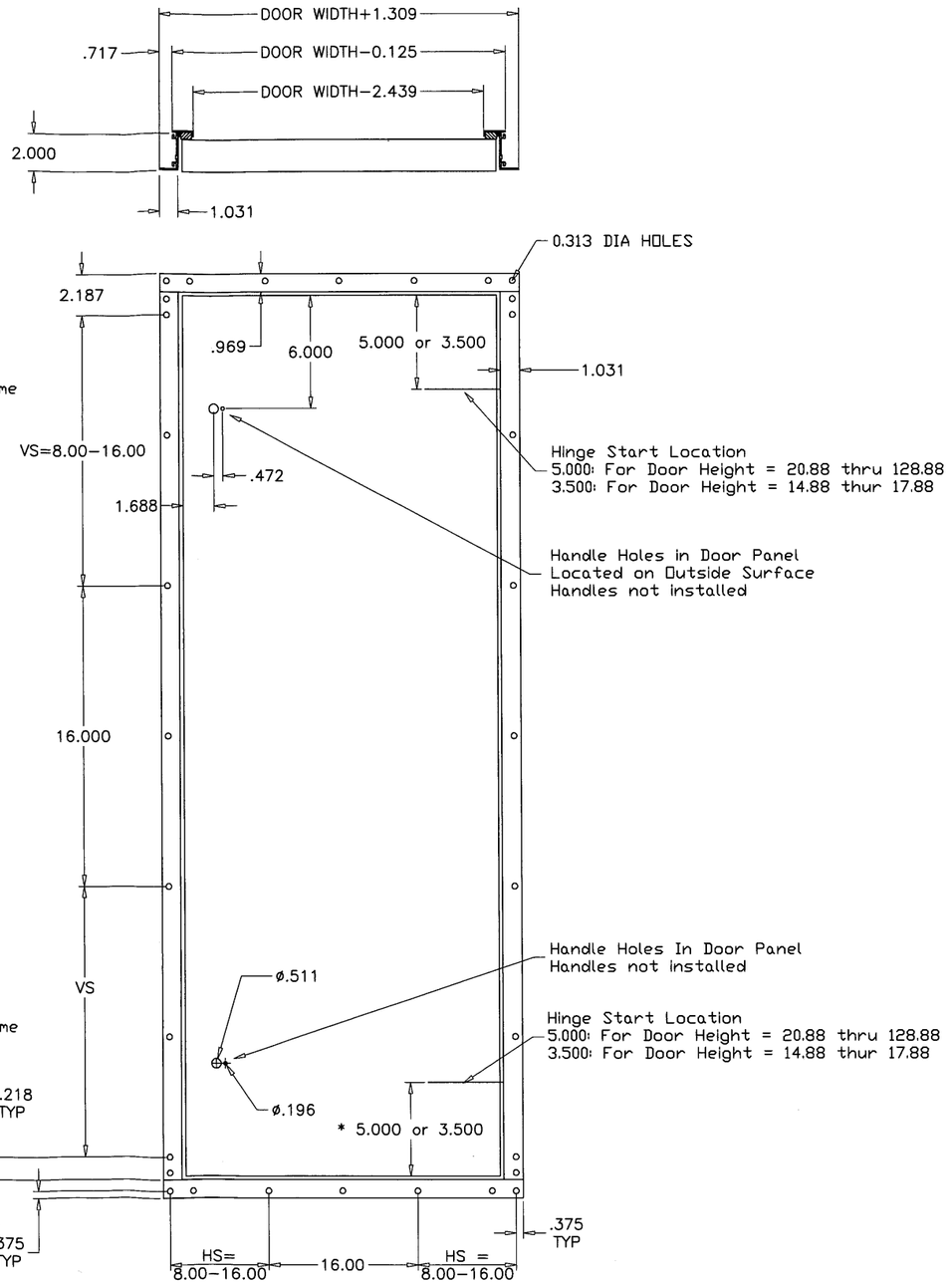


NON THERMAL HORIZONTAL Z FRAME



NON THERMAL DOOR PANEL EDGE EXTRUSION





NOTES:
UNIT DOOR HEIGHT = UNIT HEIGHT – 6.125
PIPE CHASE DOOR HEIGTH = 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 conssit of 24 gage sheet steel.
2. View area not available on Doors used for NOA consturted 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

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

Date & Time: 04/13/15 12:06

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AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

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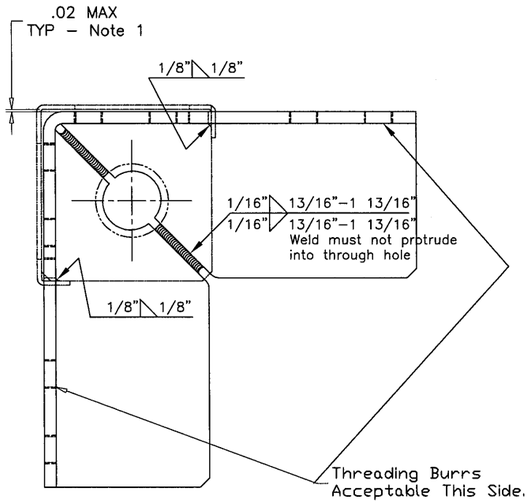
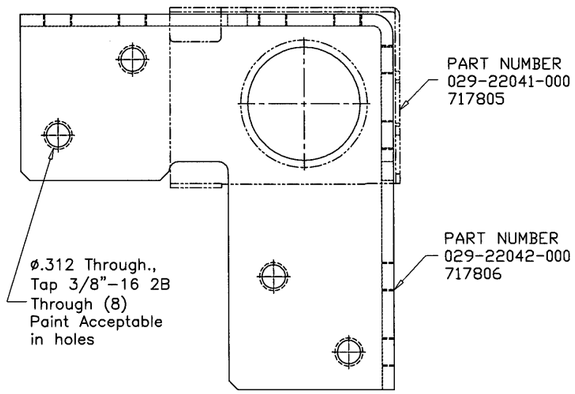
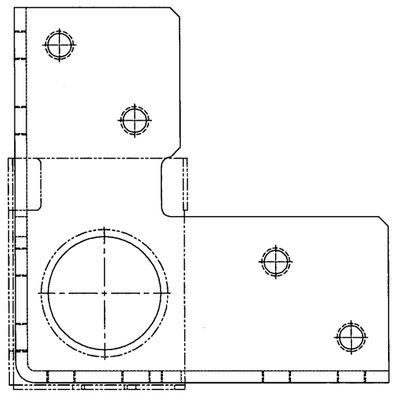


TOP VIEW



EXTERIOR SIDE VIEW



INTERIOR SIDE VIEW

Notes:

1) Gap can not accept 1/2" wide feeler stock.

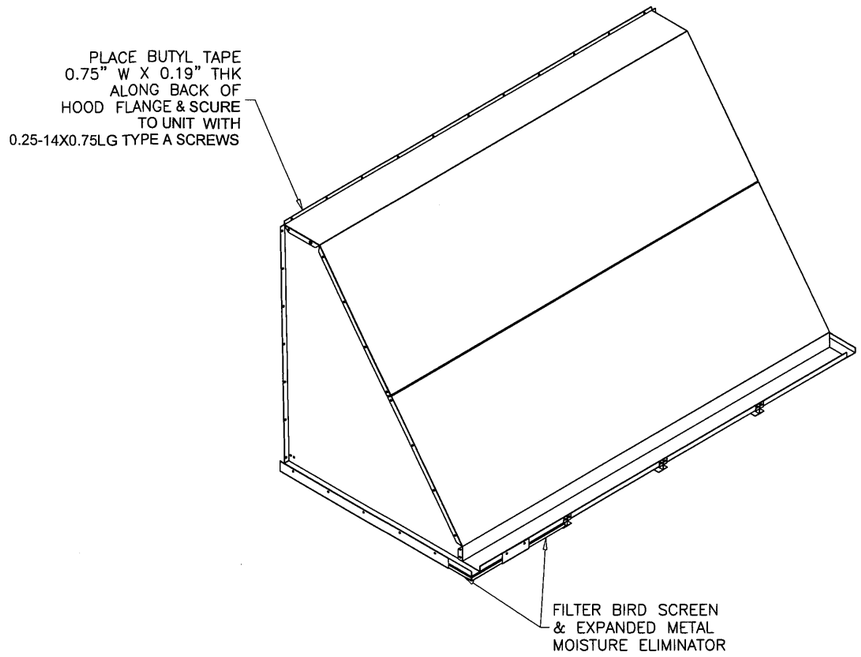
2) Finish - Annodized Silver Powder Coat Paint.

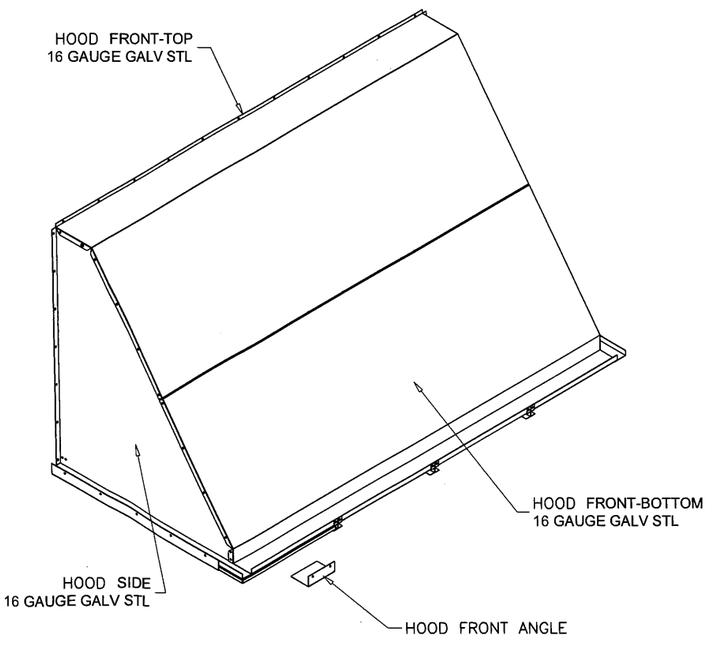
3) Sub-component dimensions are prior to paint.

4) 8 gage stamped and formed galvanized steel corner

CORNER CONNECTOR DETAIL

1/2" = 1"





OUTDOOR AIR HOOD ASSEMBLY

1/2" = 1'–0"

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

Date & Time: 04/13/15 12:06

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX. (305) 262-6978

COOLER\13-06YIC

SOLUTION XT ROOFTOP AIR HANDLING UNIT

YORK/JOHNSON CONTROLS INC.
15901 S.W. 29TH STREET, SUITE 801
MIRAMAR, FL. 33027
TEL. (954) 389-9675 FAX. (954) 389-9687

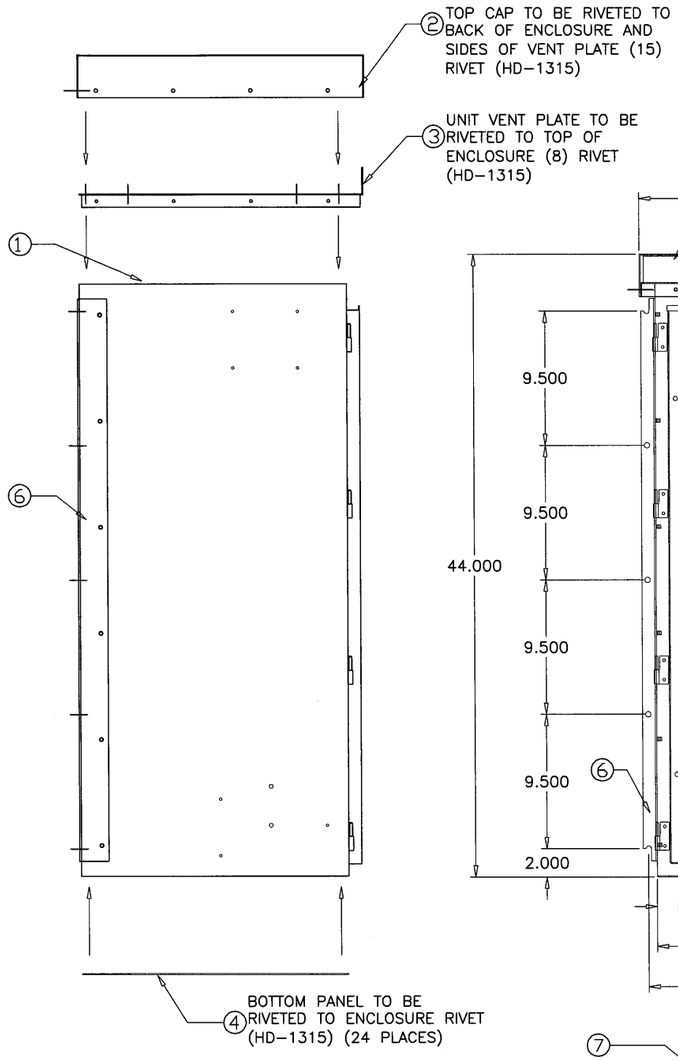
revisions:

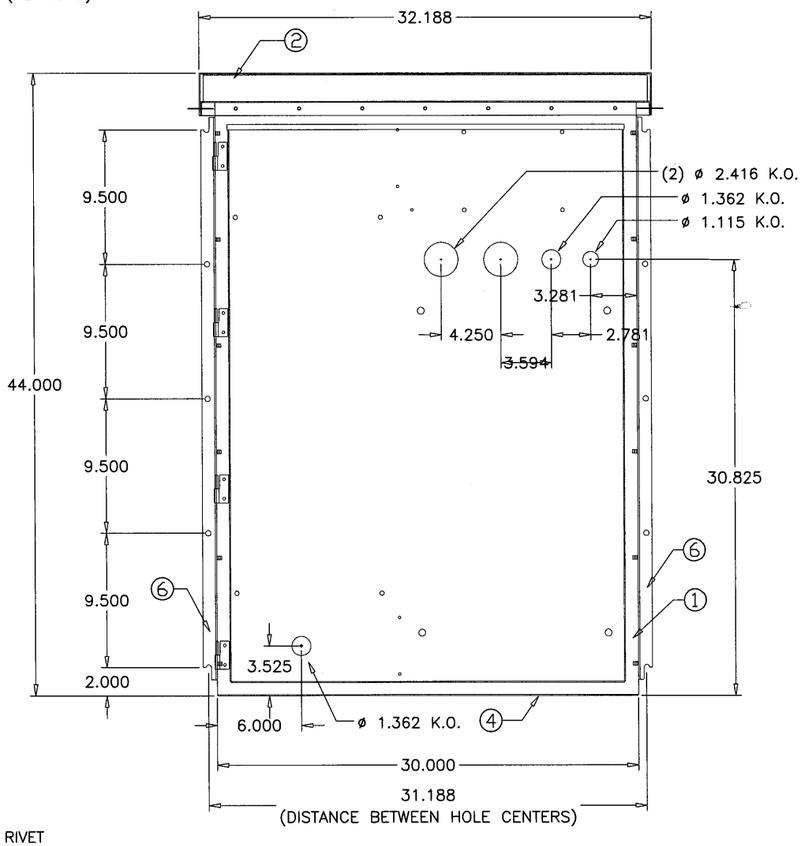
no	date	by	description

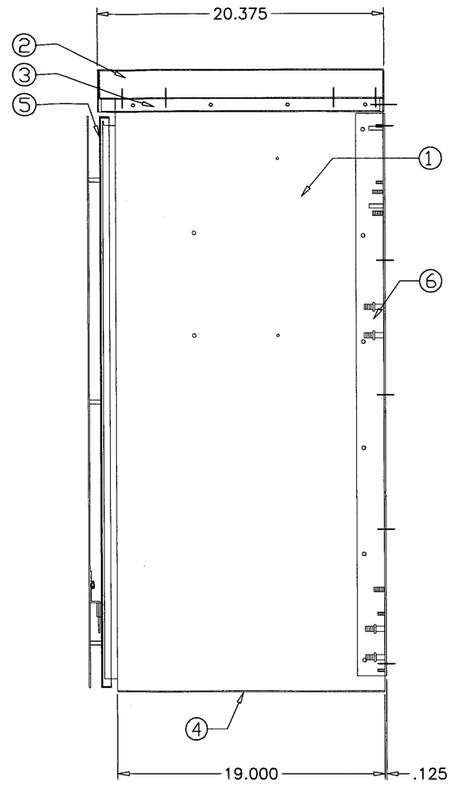
date: 11-19-13
scale: –
dr. by: HAMID
chk. by:

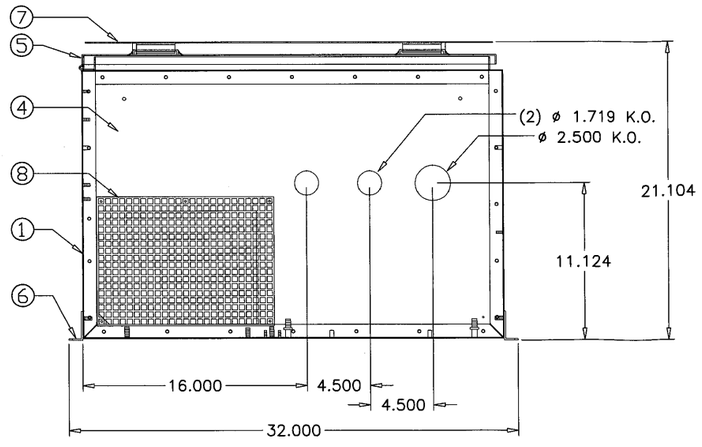
drawing no.
13–06

PARTS LIST			
ITEM	DRAWING NO.	ITEM DESCRIPTION	QTY.
1	207931	ENCLOSURE ASSEMBLY	1
2	207935	ENCLOSURE TOP CAP	1
3	207936	UNIT VENT PLATE	1
4	207937	BASE PANEL	1
5	207938	ENCLOSURE DOOR	1
6	207942	MOUNTING RAIL	2
7	207943	SUN SHIELD (DOOR)	1
8	207827	GRILLE	1









VENTED NEMA 3R
ENCLOSURE ASSEMBLY

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

Date & Time: 04/13/15 12:06

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revisions:

no	date	by	description

date: 11-19-13
scale: 3/32" = 1"
dr. by: HAMID
chk. by:

drawing no.
13-06

sheet 17 of 17