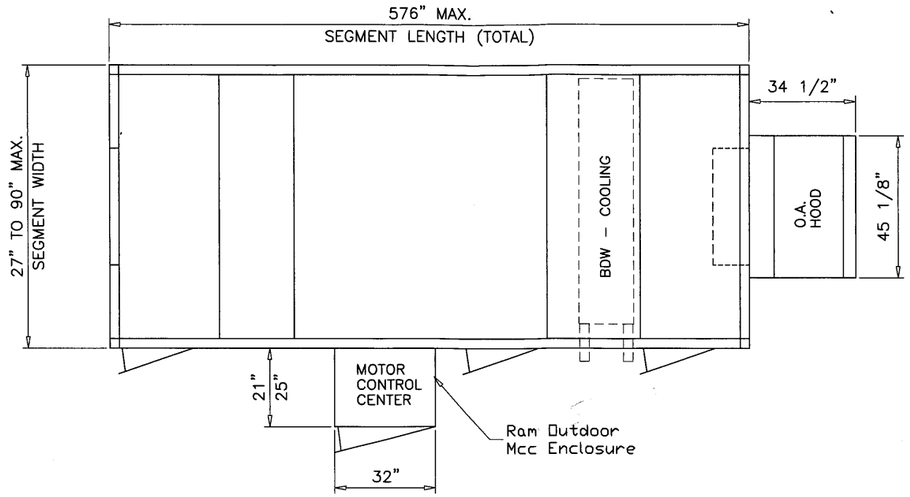
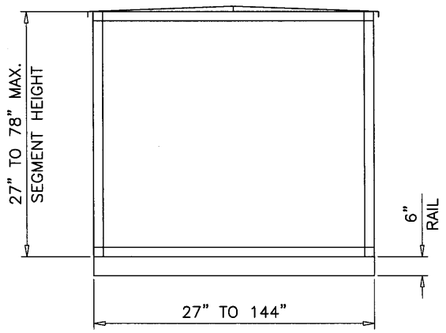
UNIT DIMENSIONS:

SEGMENT HEIGHT = 27" TO 78" MAX.
SEGMENT WIDTH = 27" TO 90" MAX.
SEGMENT LENGTH (TOTAL) = 576" MAX.
MAXIMUM PANEL SIZES ARE SHOWN ON SHEET 12.

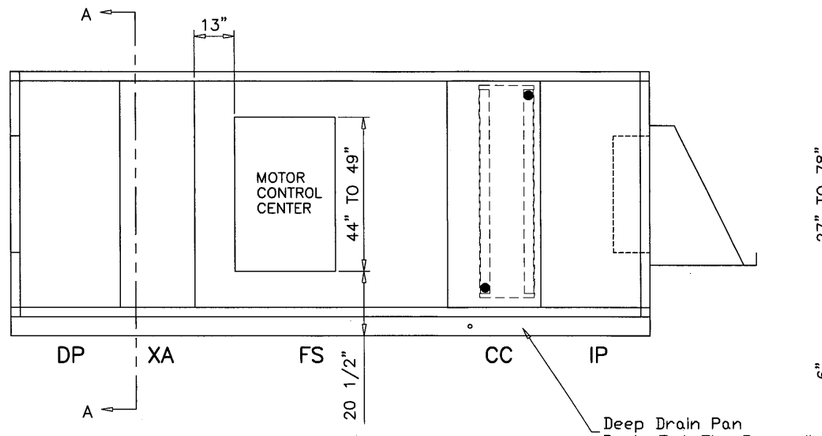


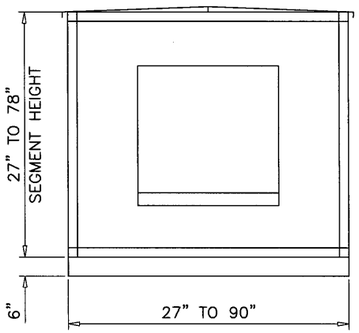
PLAN VIEW

NOTE:
1-1/4" MPT CONDENSATE CONNECTION LOCATED ON LEFT SIDE OF UNIT, 7 5/16" ABOVE ROOF LINE
HORIZONTAL CONDENSATE CONNECTION
DIMENSION TOLERANCE: +/- 1 1/2"



A-A





SIDE VIEW

AIR FLOW

FRONT ELEV.

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. ELECTRICAL AND MECHANICAL DETAILS ARE NOT PART OF THIS APPROVAL.
4. POLYURETHANE SHALL BE RIGID FOAM MIN. DENSITY #2 C.F.
5. MAX. FLAME SPREAD RATING = 5 AS PER ASTM E-84. SMOKE DEVELOPED INDEX = 250 SPONTANEOUS-IGNITION TEMPERATURE = 869°F.
6. ALL STEEL TO BE SHOP PRIMED BEFORE ASSEMBLY.
7. 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.
8. ALTERNATIVE CONSTRUCTED MOTOR CONTROL ENCLOSURE SEE SHEET 16 FOR DETAIL.

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

Note:
All standard Panel liners and outers are 20 gage galv steel

JAVAD AHMAD
TEXAS PE # 106516
STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

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

COOLER\13-05YIC

SOLUTION XT ROOFTOP AIR HANDLING UNIT

YORK/JOHNSON CONTROLS INC.
1499 EAST PHILADELPHIA STREET
YORK, PA. 17403
TEL. (717) 815-4218 FAX. (717) 815-4198

revisions:

no	date	by	description

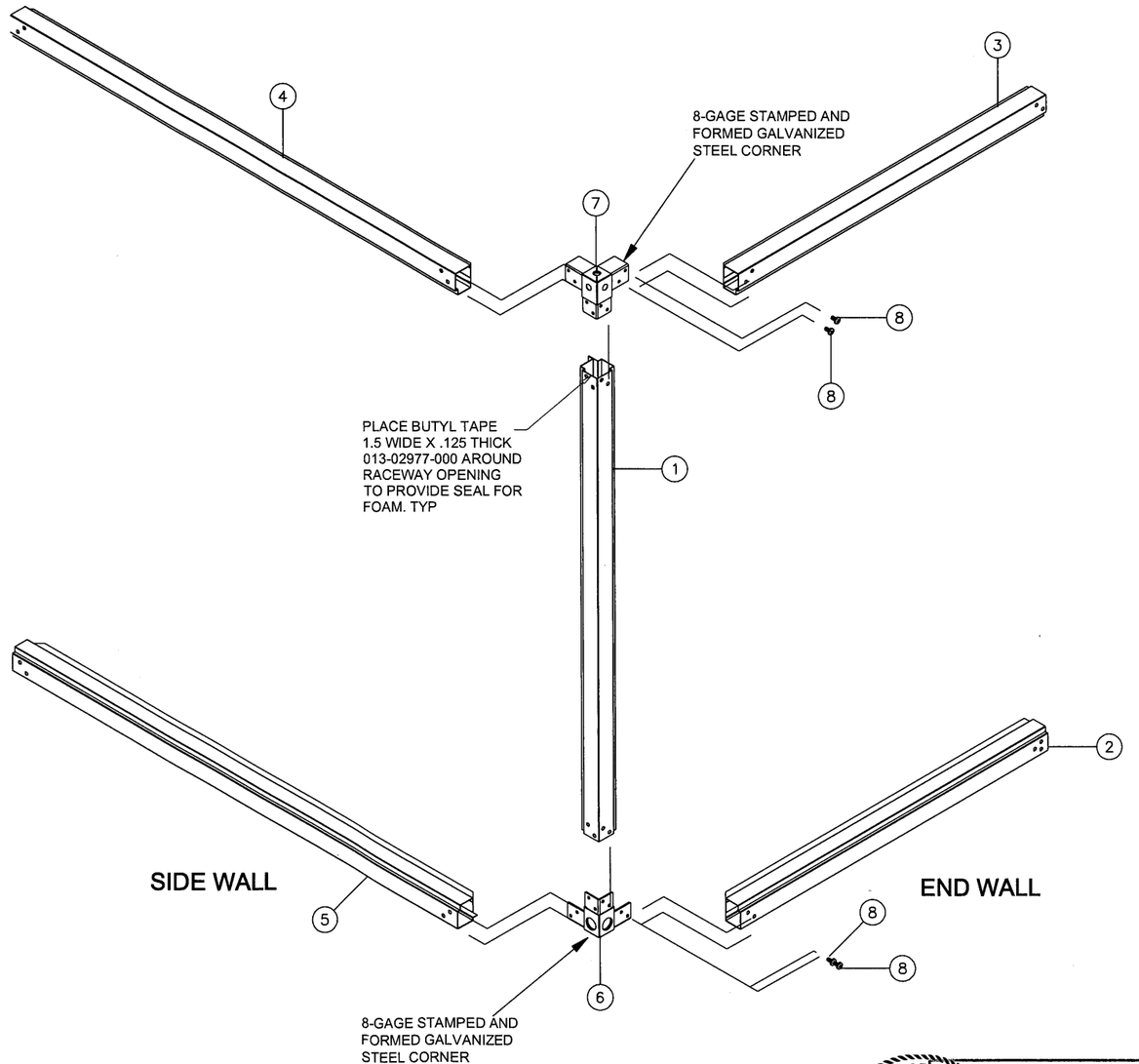
date: 11-19-13
scale: 1/4"=1'-0"
dr. by: HAMID
chk. by:

drawing no. 13-05

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 (6) using hardware (8) – 2 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

CORNER ASSEMBLY & INTERNAL FRAMING

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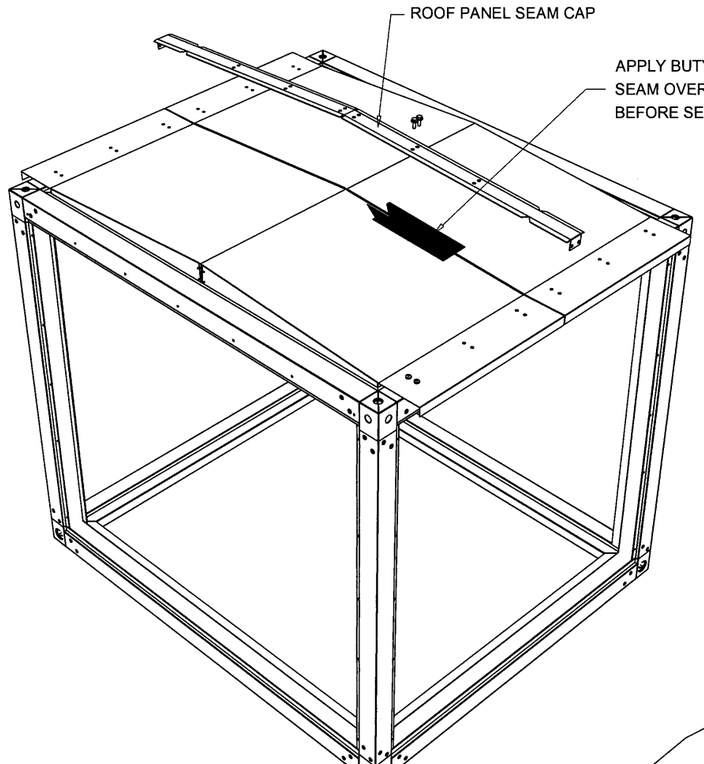

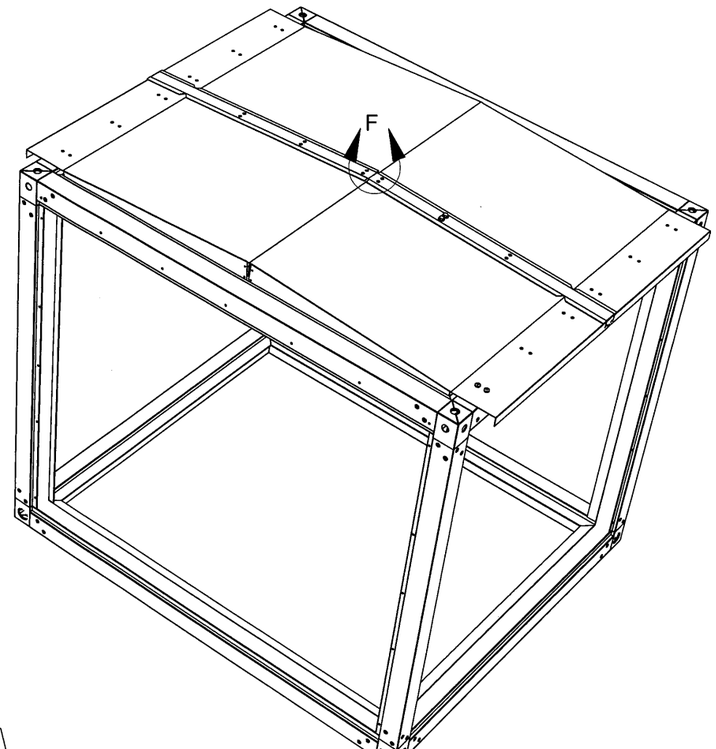

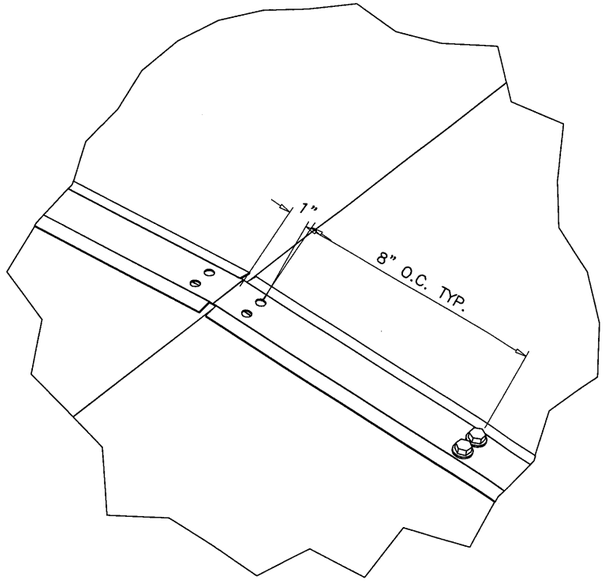

DETAIL F

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.

ROOF SEAM
CAP ASSEMBLY
OPTION #1

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TEXAS PE # 106516

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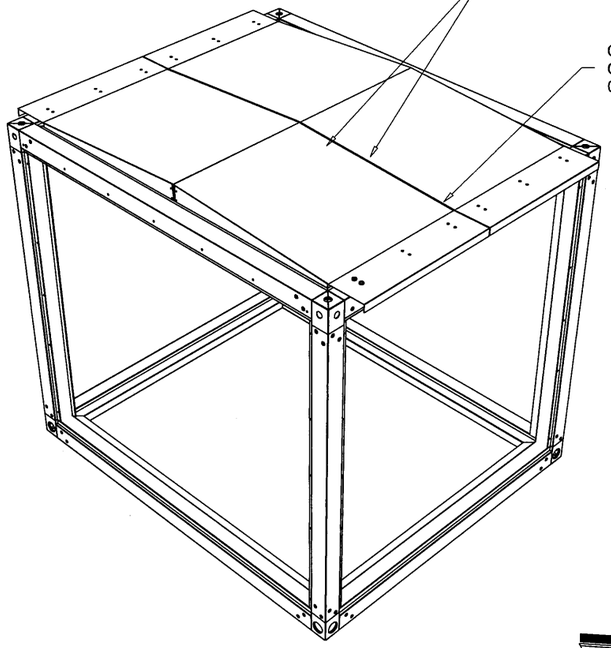
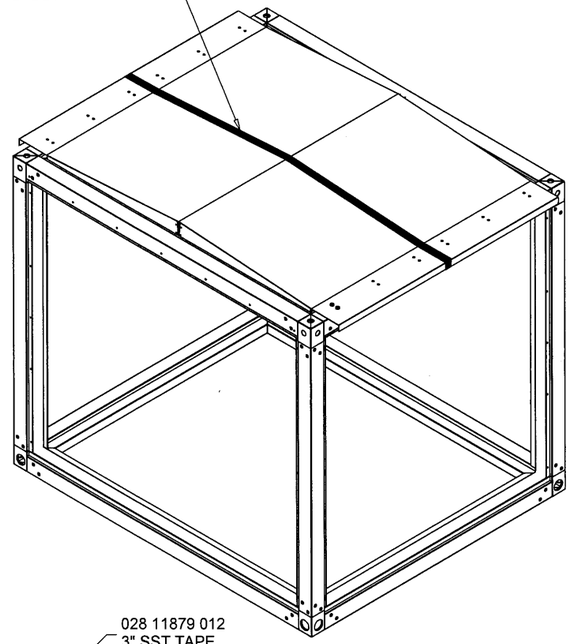


CLEAN BOTH SIDES OF SEAM WITH 50% RUBBING ALCHOHOL WATER MIX OR EQUAL. ALLOW CLEANED AREA TO DRY

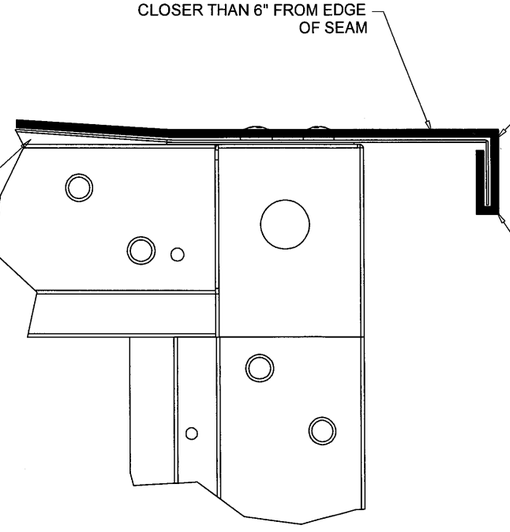
CAULK SEAM BETWEEN ALL OUTDOOR ROOF PANELS WITH 013-03317-010 OR EQUAL

OVERLAP SEAM TAPE 1"-2" AS NEEDED.

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



ROOF SEAM TAPE
3" SST

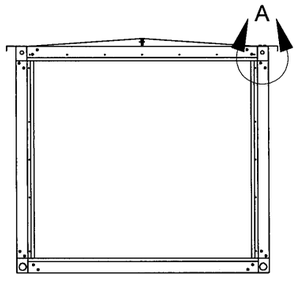


DO NOT OVERLAP SEAM TAPE CLOSER THAN 6" FROM EDGE OF SEAM

028 11879 012
3" SST TAPE

OUTDOOR ROOF PANEL

WRAP TAPE AROUND ROOF PANEL FLANGE



DETAIL A

ROOF SEAM
TAPE ASSEMBLY
OPTION #2

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TEXAS PE # 106516

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LICENSED PROFESSIONAL ENGINEER

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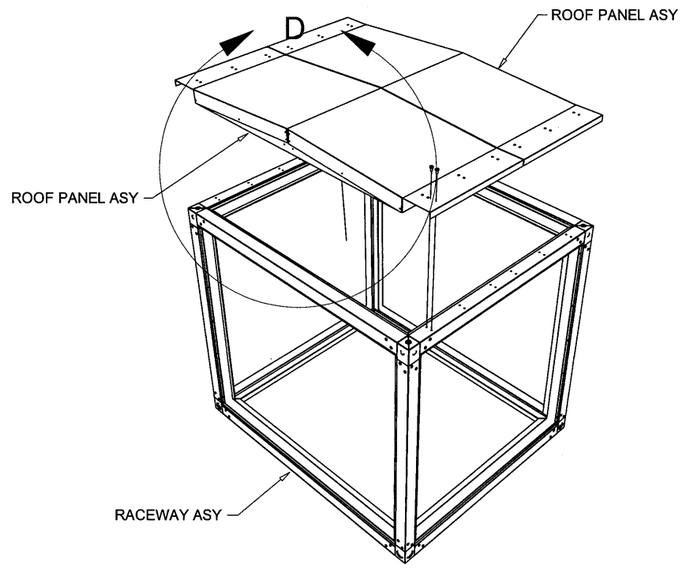
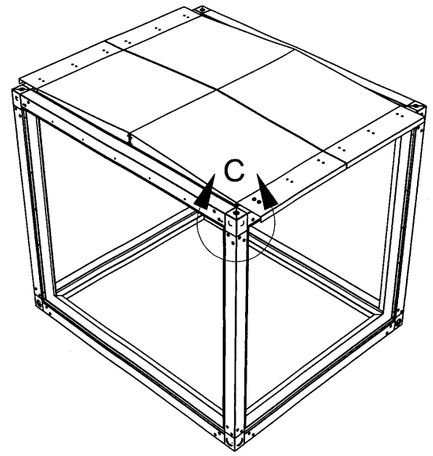
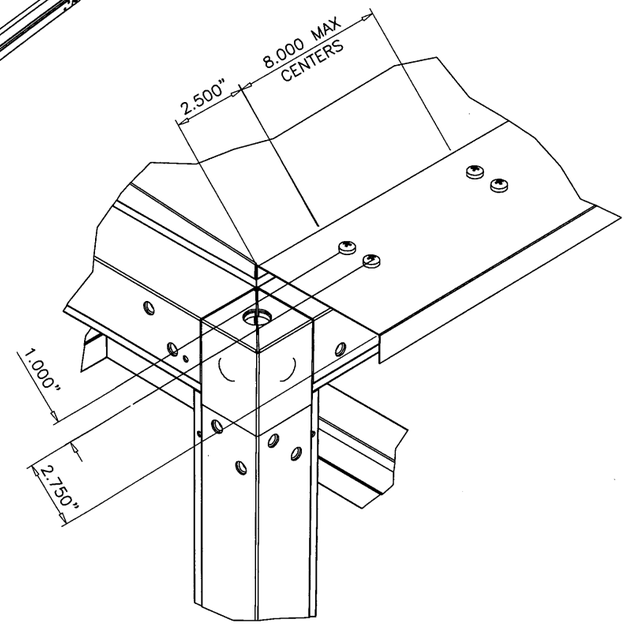
chk. by:

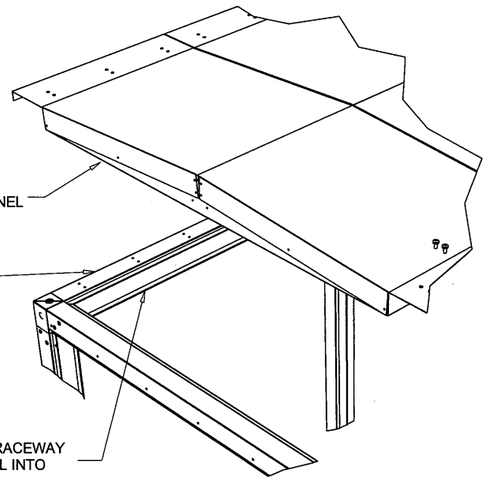
drawing no. 13-05







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

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ROOF PANEL ASSEMBLY

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date: 11-19-13
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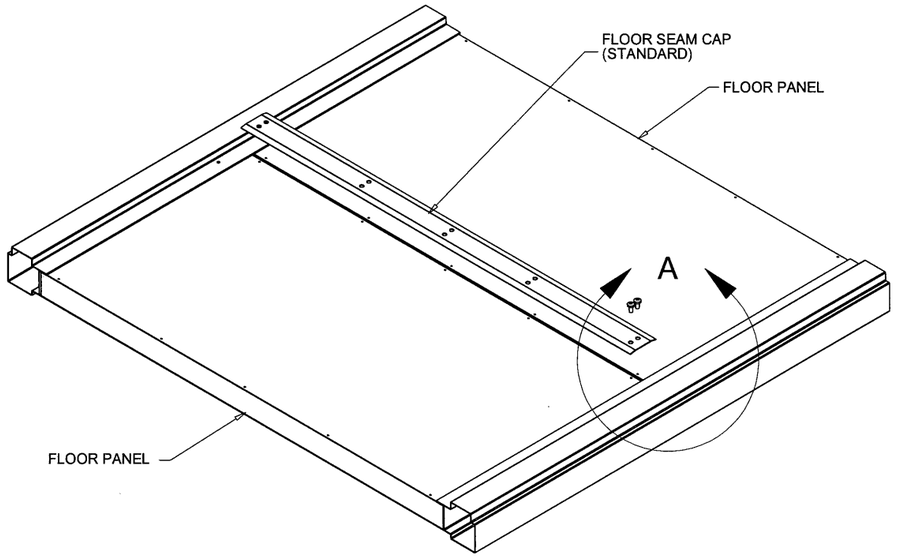
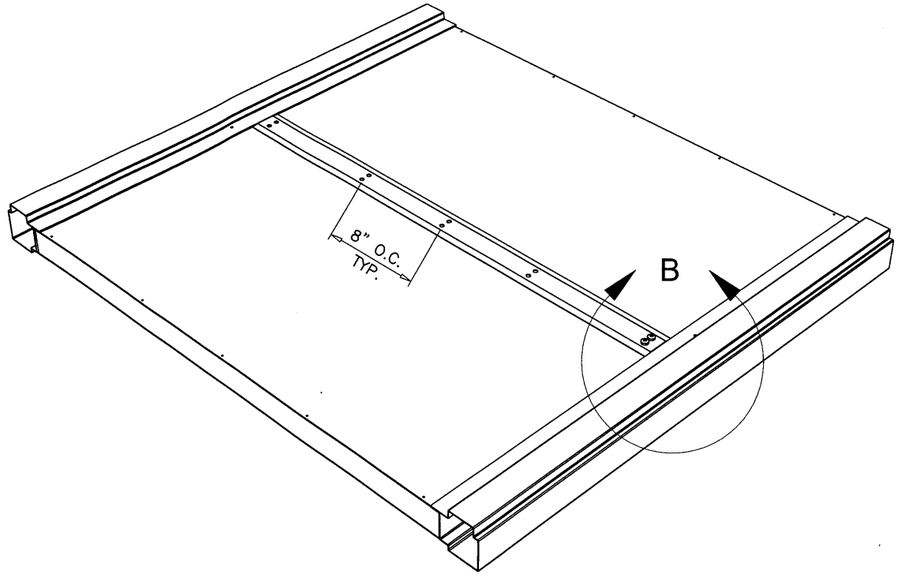
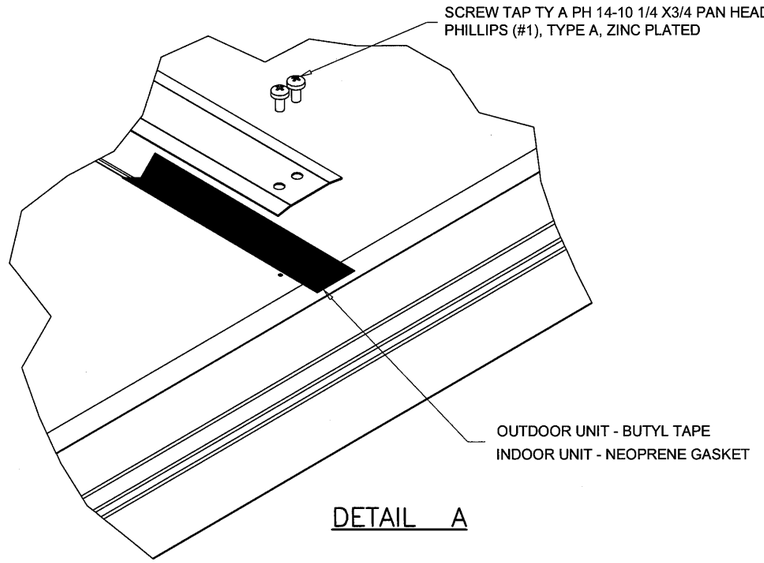
chk. by:

drawing no.
13-05

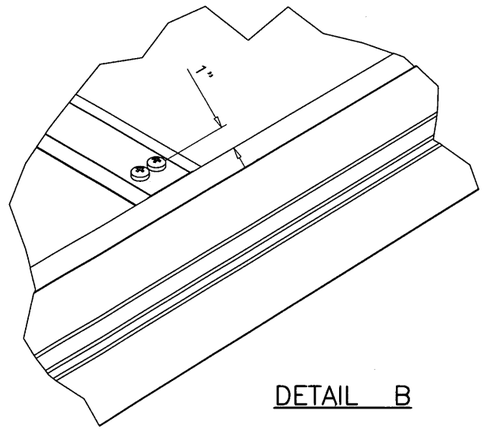
sheet 5 of 16







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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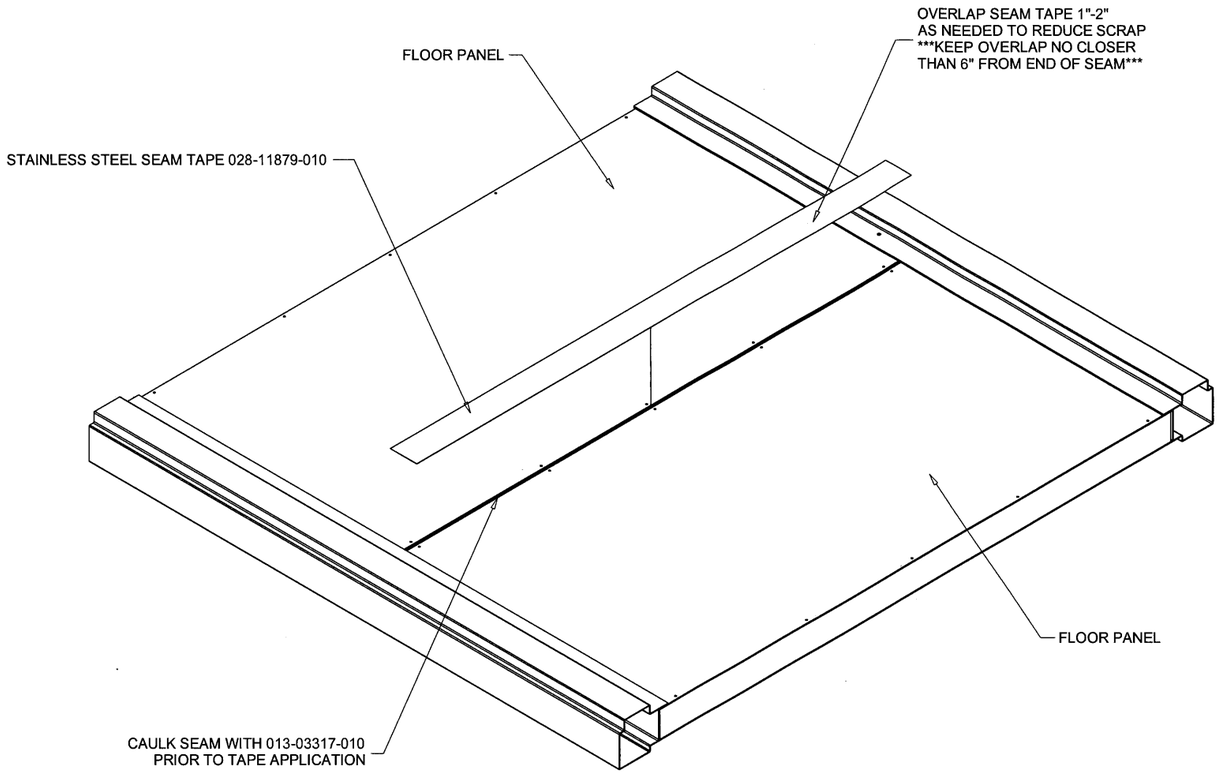
sheet 6 of 16



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

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
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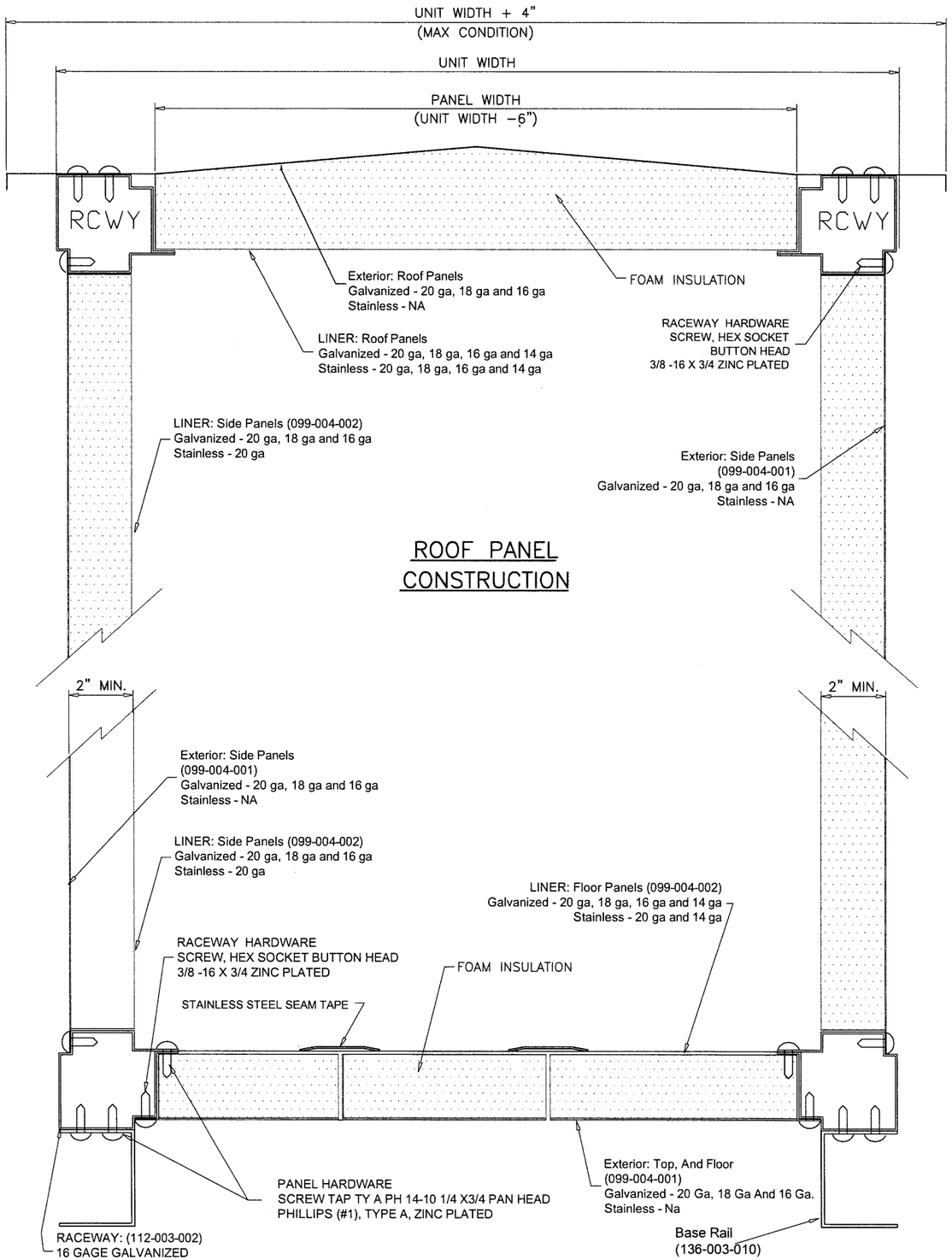
chk. by:

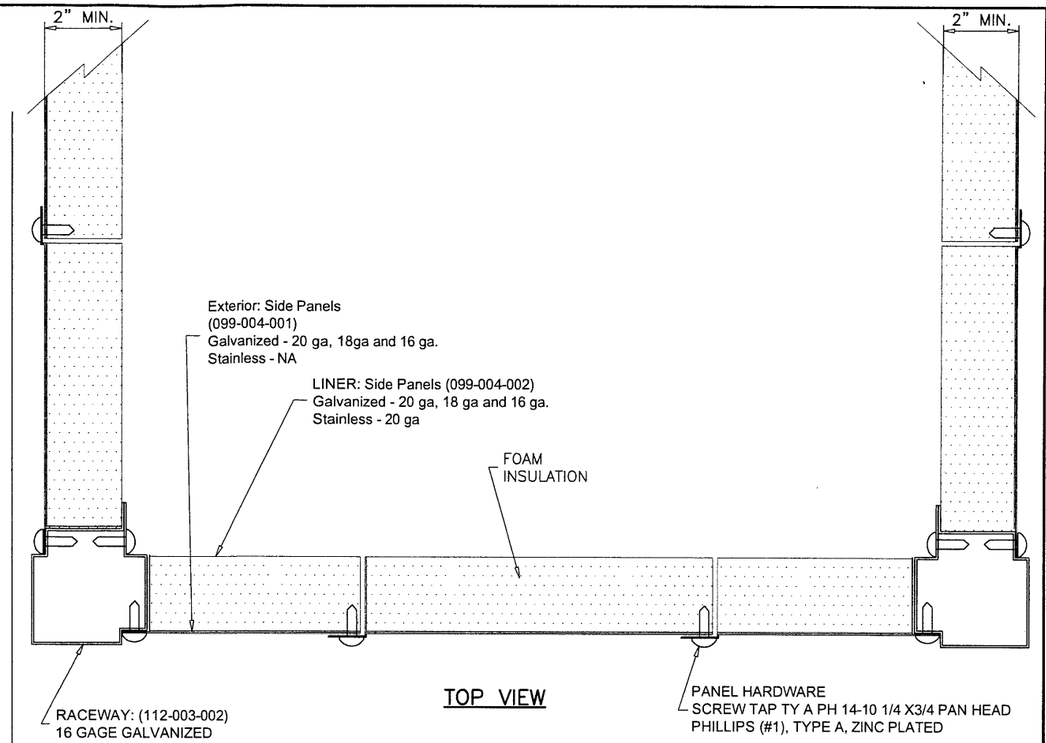
drawing no.
13-05

sheet 7 of 16



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 20 gage (min) galvanized steel and 20 gage (min) for wall panels. The interior liner shall be constructed of 20 gage (min) for roof and floor panels and 20 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 24 gage sheet steel.

3. Insulation is spray injected closed-cell foam.

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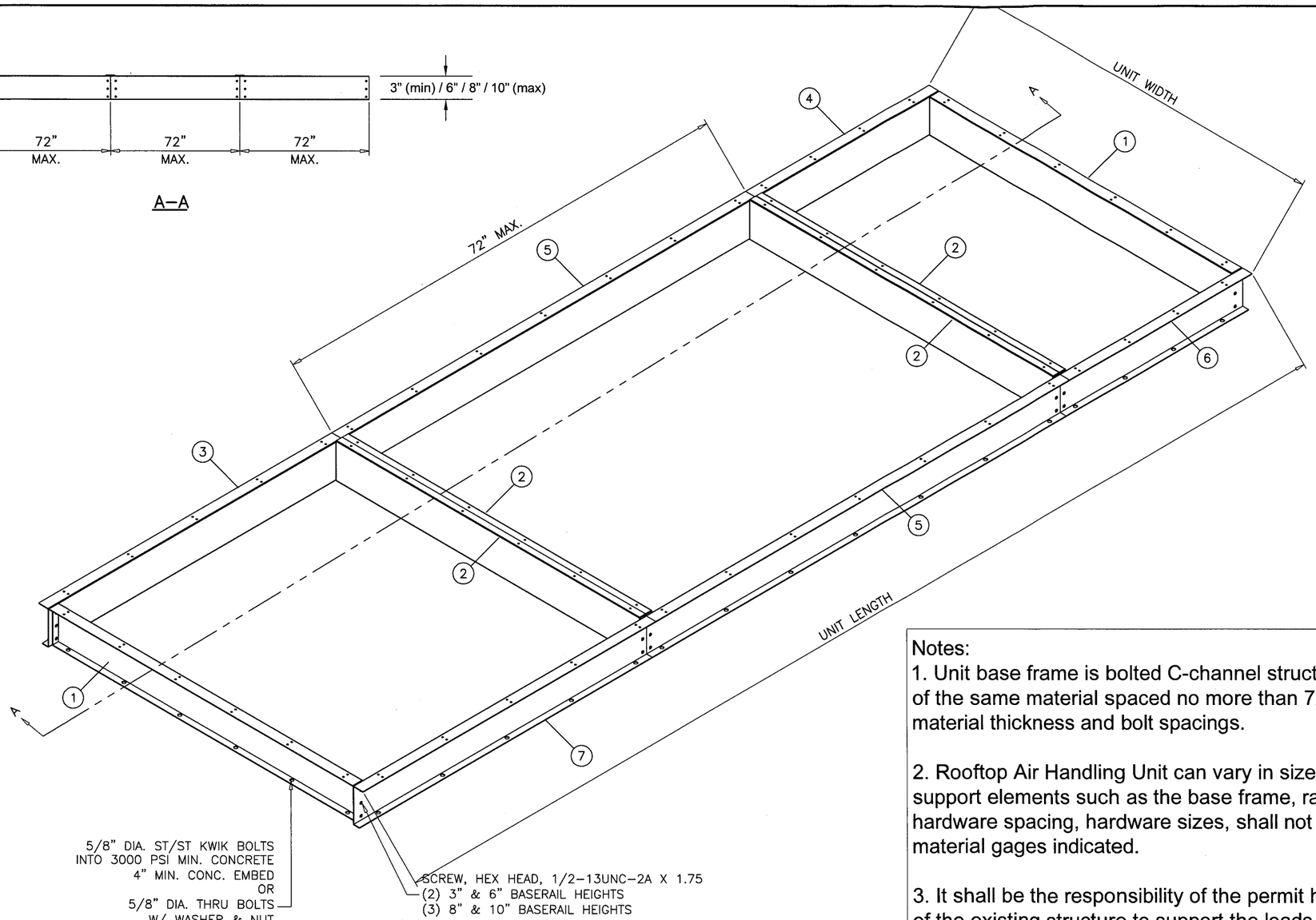

5/8" DIA. ST/ST KWIK BOLTS
INTO 3000 PSI MIN. CONCRETE
4" MIN. CONC. EMBED
OR
5/8" DIA. THRU BOLTS
W/ WASHER & NUT
INTO 1/8" MIN. THK. STEEL
AT 4" FROM ENDS & 16" O.C. MAX.
SEE NOTE #4

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, 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.

4. Attachment to the roof 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.

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
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SOLUTION XT
BASERAIL ASSEMBLY

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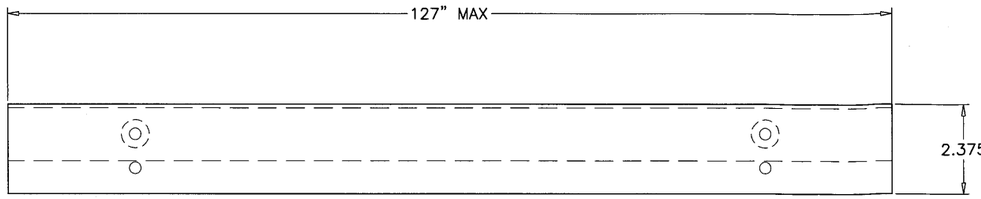
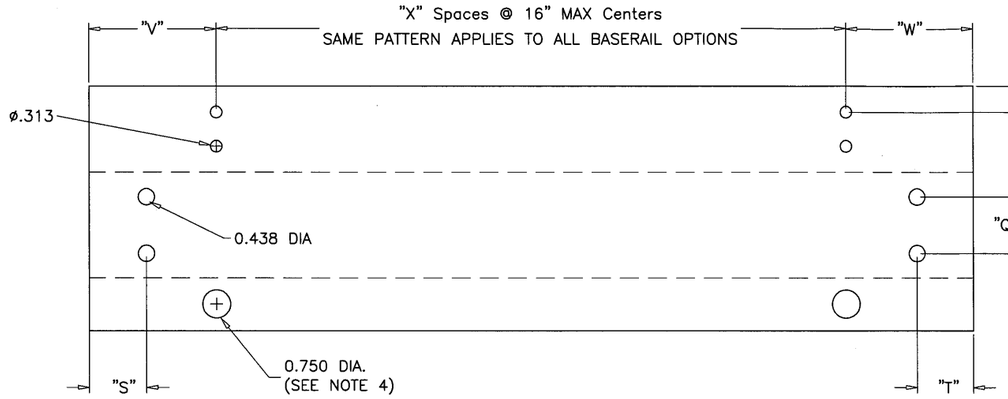
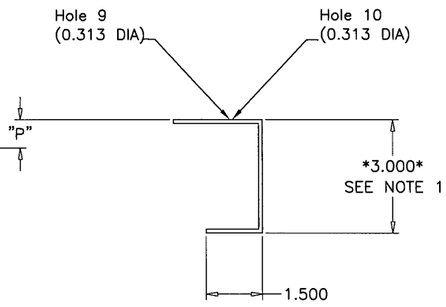


FORMED TOP VIEW



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.
SEE NOTE # 4 BELOW.

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 IS NOT PART OF THE SCOPE OF THIS PRODUCT APPROVAL. THESE ATTACHMENT DETAILS SHALL BE REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENT.

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

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TEXAS PE # 106516

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106516
LICENSED PROFESSIONAL ENGINEER

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SOLUTION XT ROOFTOP AIR HANDLING UNIT

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TEL. (717) 815-4218 FAX. (717) 815-4198

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chk. by:

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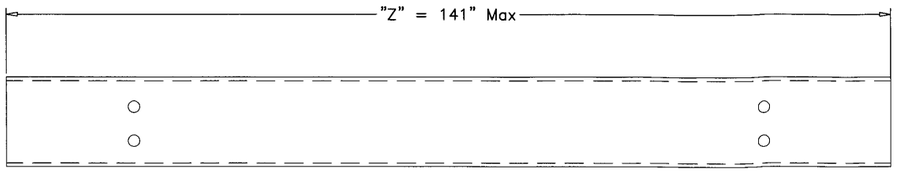
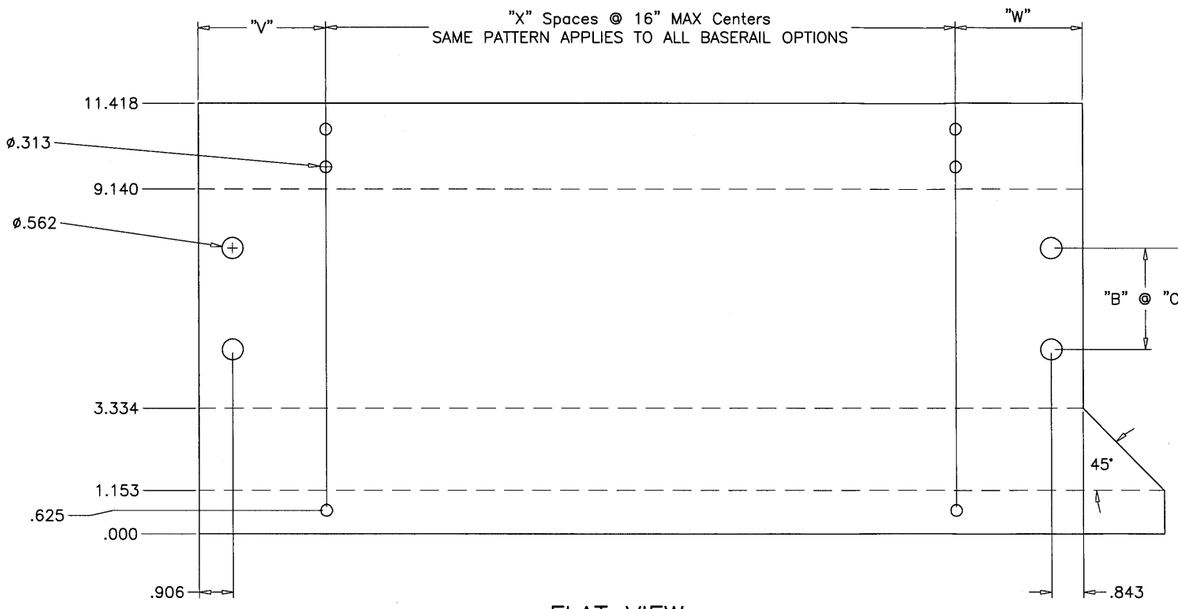
13-05

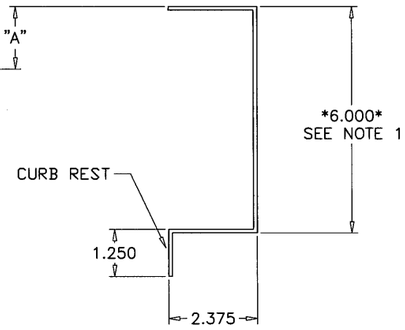
CALCULATION CHART AND DATA			
VERTICAL HOLE DATA			
BASERAIL HEIGHT	"A"	"B" SPACES	"C"
6"	1.657	1	2.687
8"	1.657	2	2.687
10"	1.657	2	2.687



FORMED TOP VIEW



FLAT VIEW



FORMED SIDE VIEW

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

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 IS NOT PART OF SCOPE OF THIS PRODUCT APPROVAL. THESE ATTACHMENT DETAILS SHALL BE REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENT.

ALTERNATE BASERAIL WITH CURB REST DIMENSIONS FOR USE WITH ROOF CURB

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TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

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SOLUTION XT ROOFTOP AIR HANDLING UNIT

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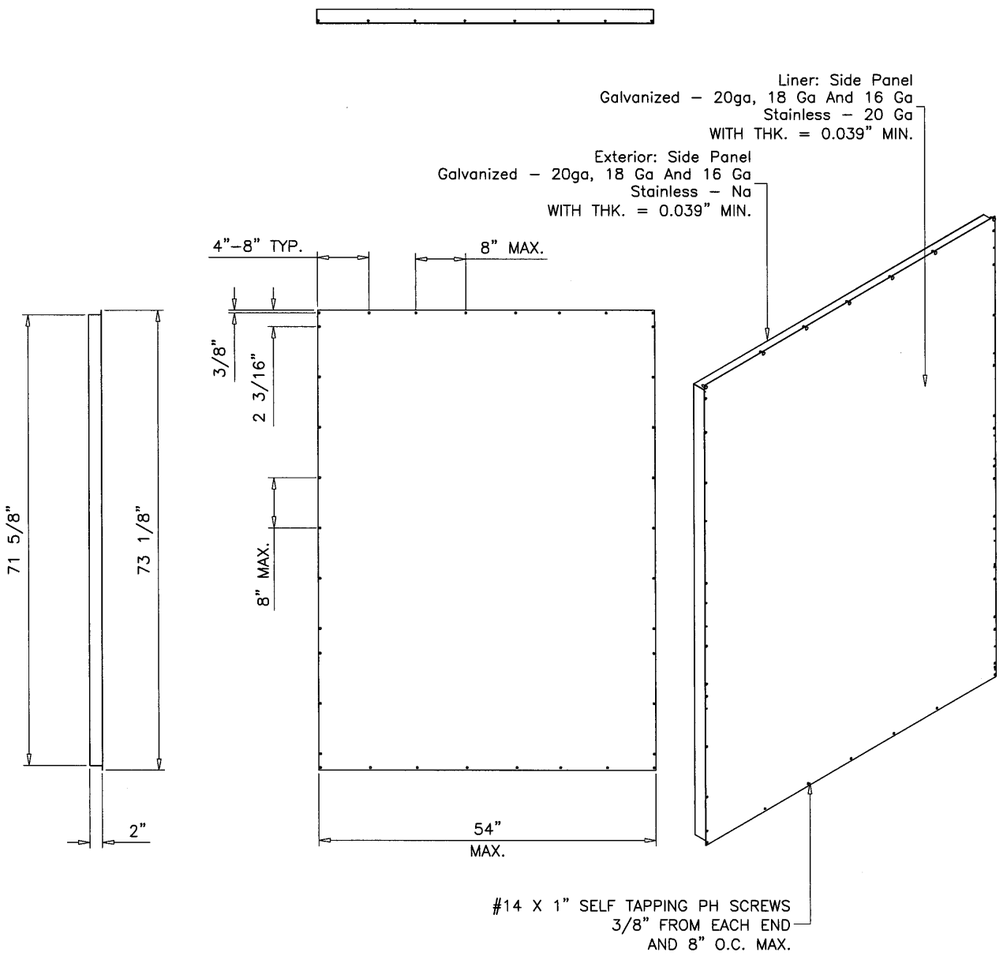
chk. by:

drawing no. 13-05

sheet 11 of 16

TOP VIEW



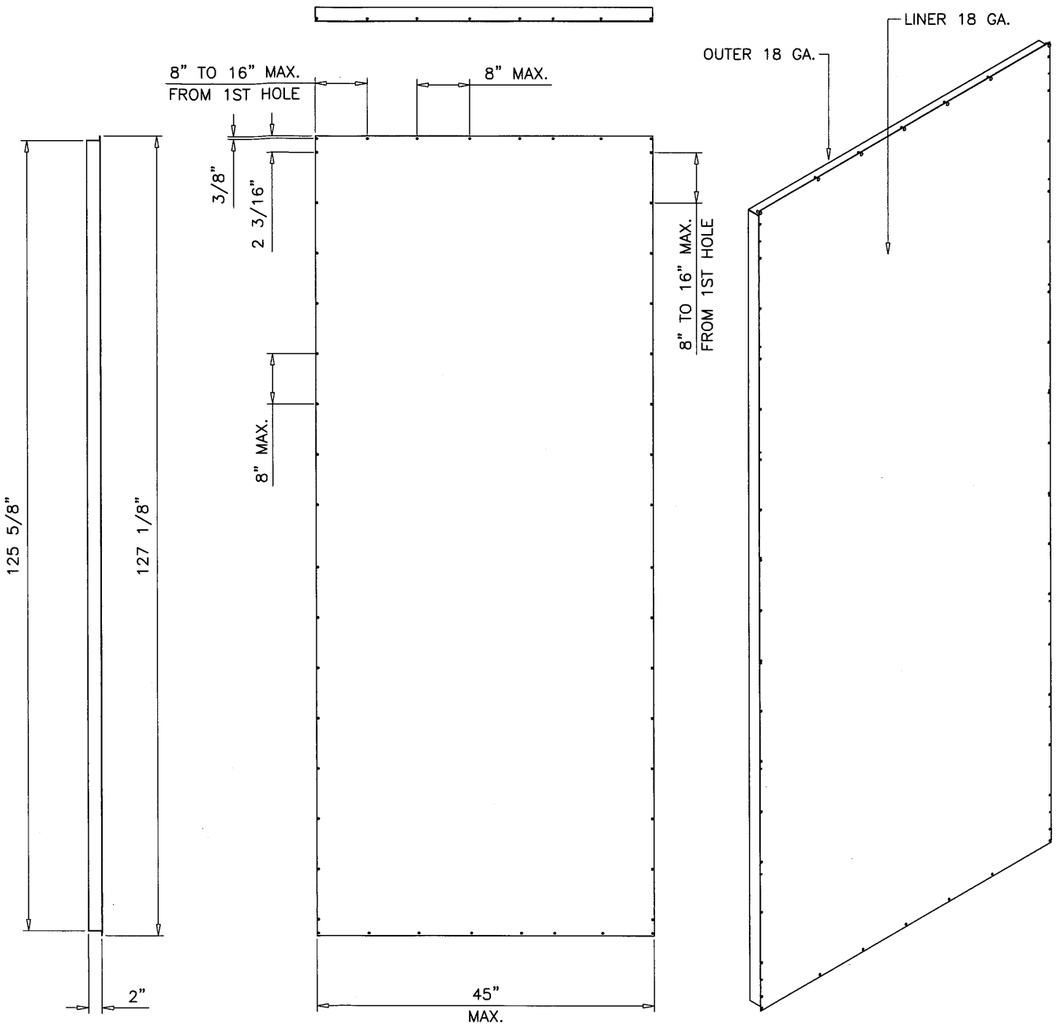
SIDE VIEW | FRONT VIEW | ISOMETRIC VIEW

SOLUTION XT–54W
WALL PANEL ASSY.

A BUTYL TAPE SHALL BE USED WHERE EACH PANEL OVERLAPPED AND FASTENED TOGETHER

NOTE: SCREW SPACING AND LOCATIONS ARE INDICATED.

TOP VIEW



SIDE VIEW | FRONT VIEW | ISOMETRIC VIEW

SOLUTION XT–54W
FLR/ROOF PANEL ASSY.

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chk. by:

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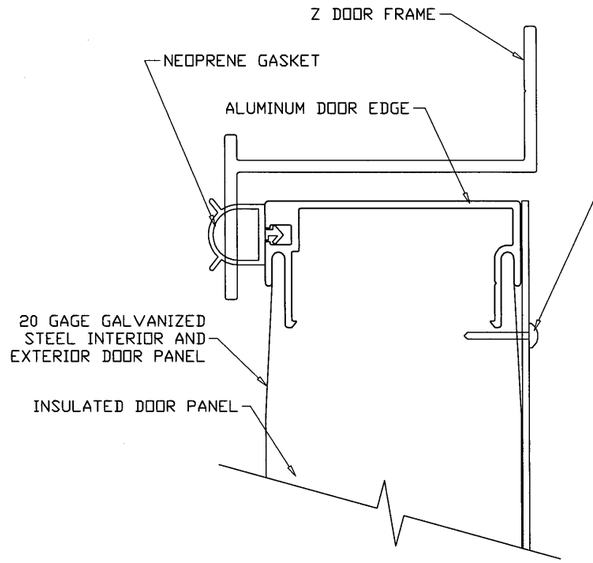
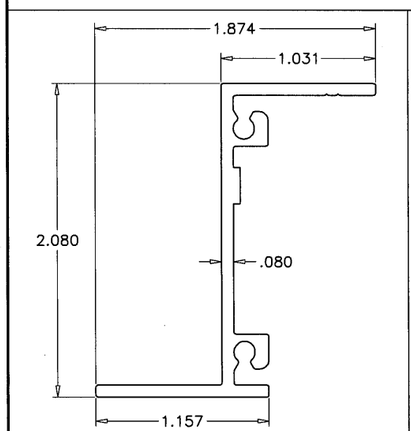
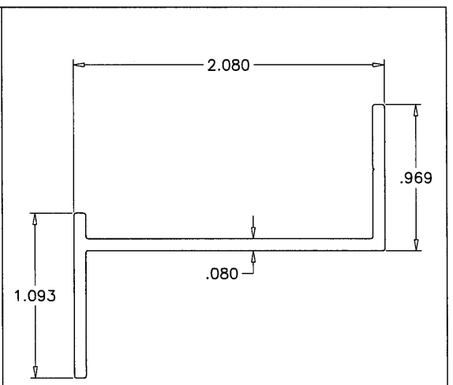


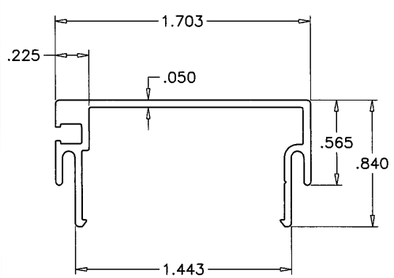
ENLARGED DOOR EDGE DETAIL



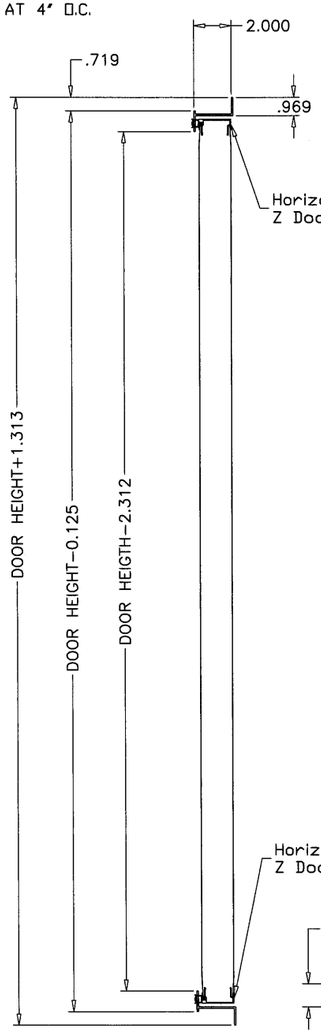
NON THERMAL VERTICAL Z FRAME
(6063-T5)

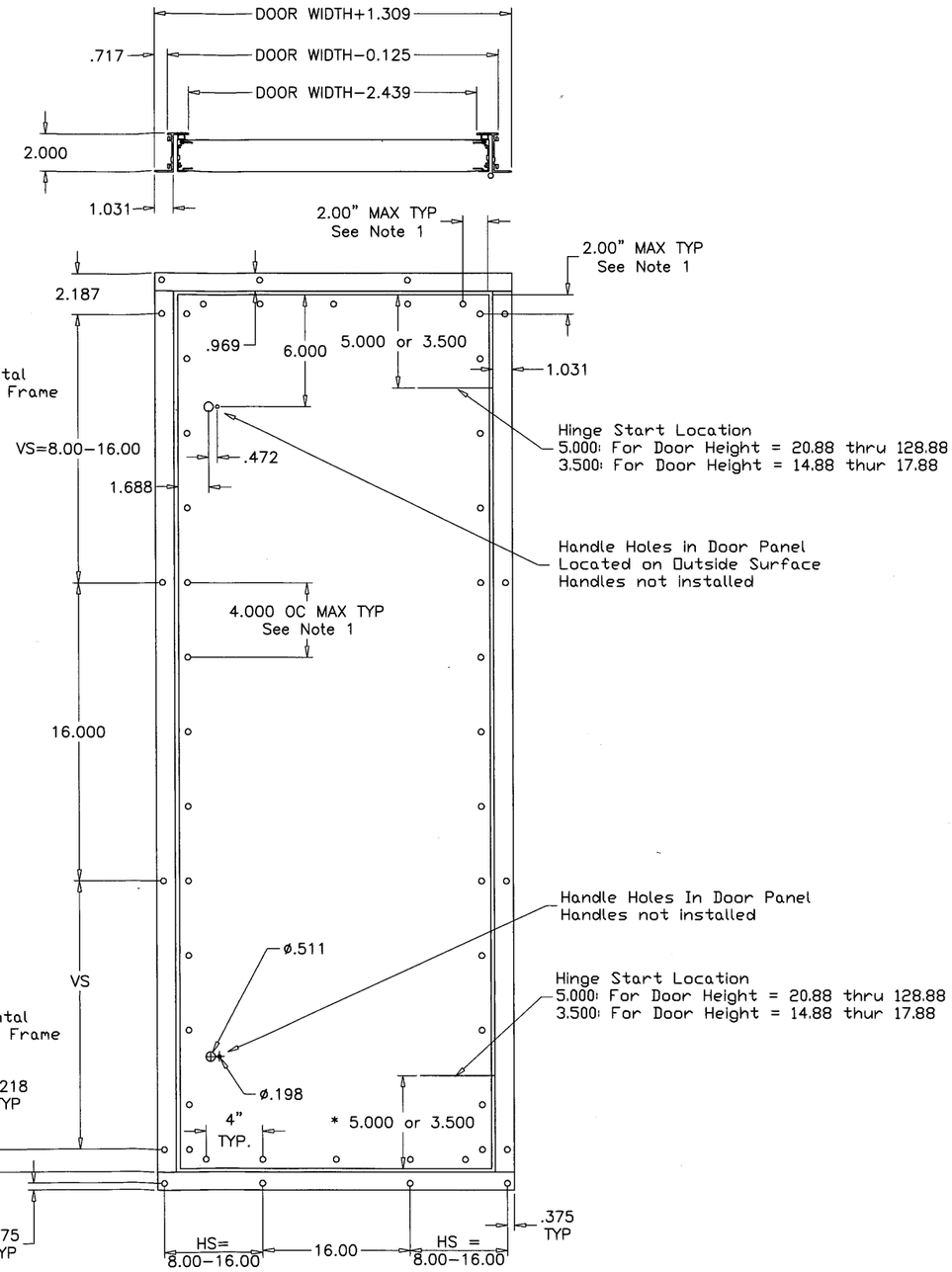


NON THERMAL HORIZONTAL Z FRAME
(6063-T5)



NON THERMAL DOOR PANEL EDGE EXTRUSION
(6063-T5)





HINGES:
(2) HINGES FOR 14.88" TO 68.88" DOOR HEIGHTS POSITIONED 5" TO 3.5" FROM HINGE END TO DOOR TOP & BOTTOM.
(3) HINGES FOR 71.88" TO 128.88" DOOR HEIGHTS ONE HINGE AT CENTER OF DOOR, THE OTHER TWO 5" FROM HINGE END TO DOOR TOP & BOTTOM.

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

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ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
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SOLUTION XT ROOFTOP AIR HANDLING UNIT

YORK/JOHNSON CONTROLS INC.
1499 EAST PHILADELPHIA STREET
YORK, PA. 17403
TEL. (717) 815-4218 FAX. (717) 815-4198

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no	date	by	description

date: 11-19-13
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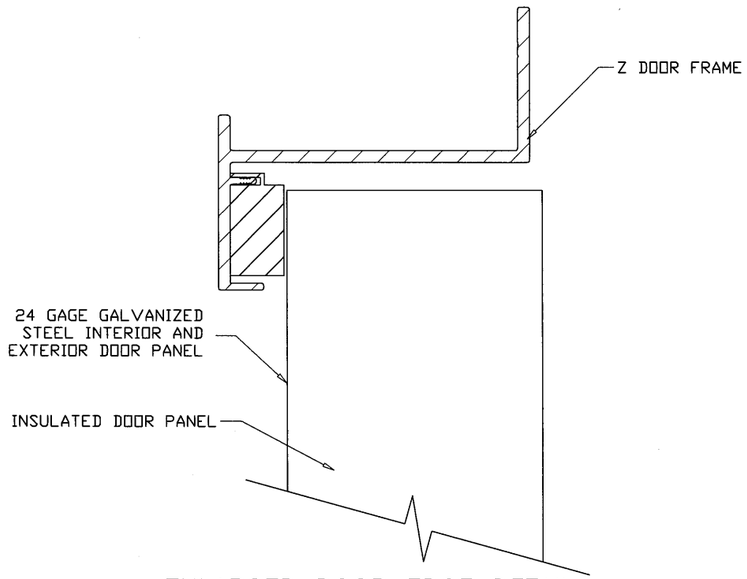
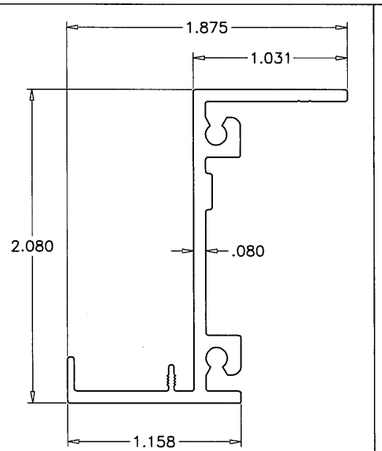
chk. by:

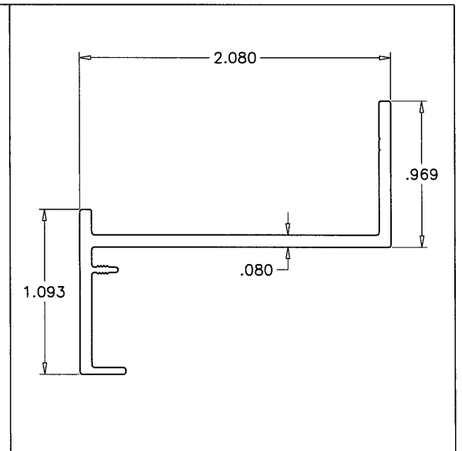
drawing no. 13-05



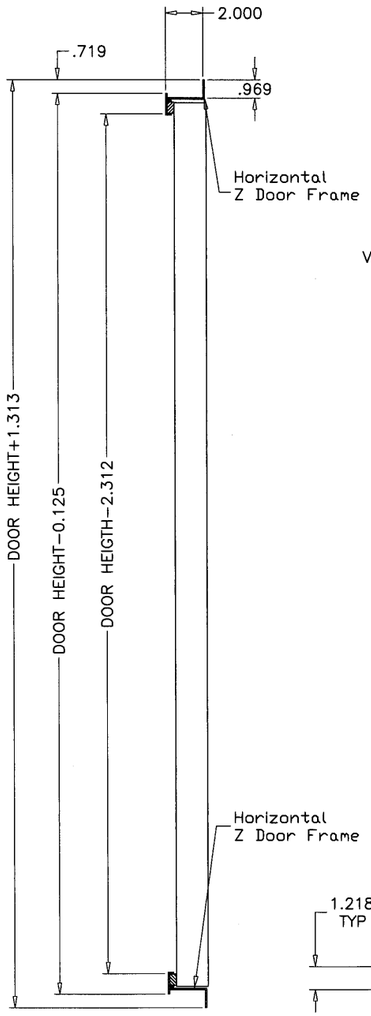
ENLARGED DOOR EDGE DETAIL

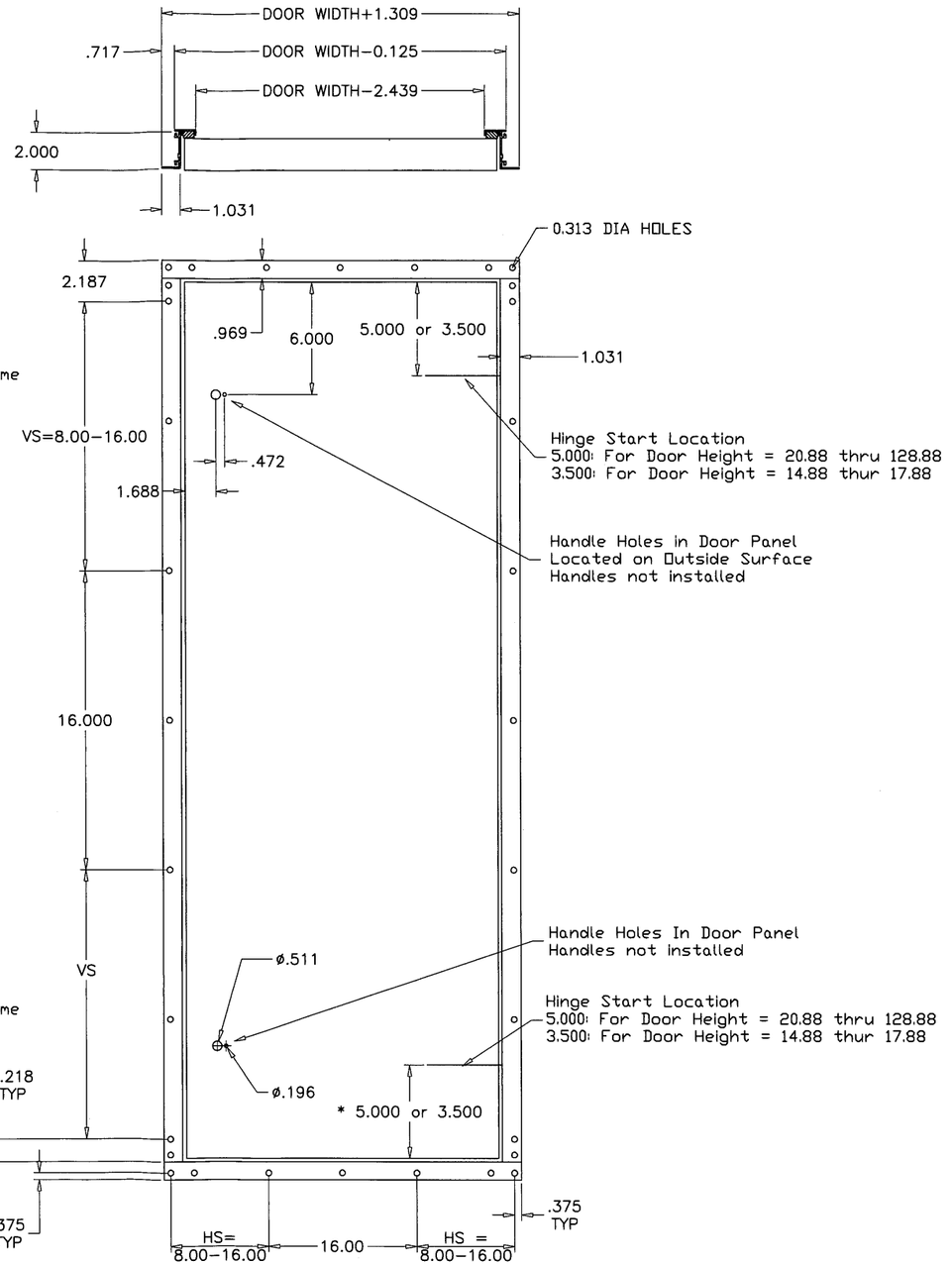


NON THERMAL VERTICAL Z FRAME
(6063–T5)



NON THERMAL HORIZONTAL Z FRAME
(6063–T5)





HINGES:
(2) HINGES FOR 14.88" TO 68.88" DOOR HEIGHTS POSITIONED 5" TO 3.5" FROM HINGE END TO DOOR TOP & BOTTOM.
(3) HINGES FOR 71.88" TO 128.88" DOOR HEIGHTS ONE HINGE AT CENTER OF DOOR, THE OTHER TWO 5" FROM HINGE END TO DOOR TOP & BOTTOM.

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 approved consturcted 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

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COOLER\13–05YIC

SOLUTION XT ROOFTOP AIR HANDLING UNIT

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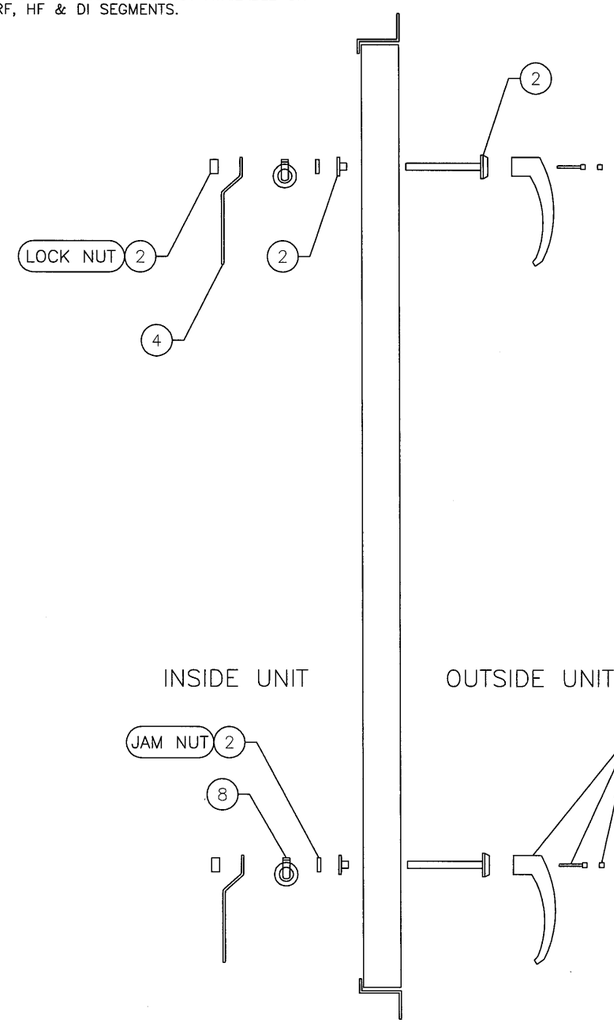
chk. by:

drawing no. 13–05

NOTES:
1. INSIDE DOOR HANDLES ARE OPTIONAL ON INDIVIDUAL DOOR LATCHES

2. INSIDE DOOR HANDLES ARE OPTIONAL ON SINGLE POINT, MULT-LATCH DOORS

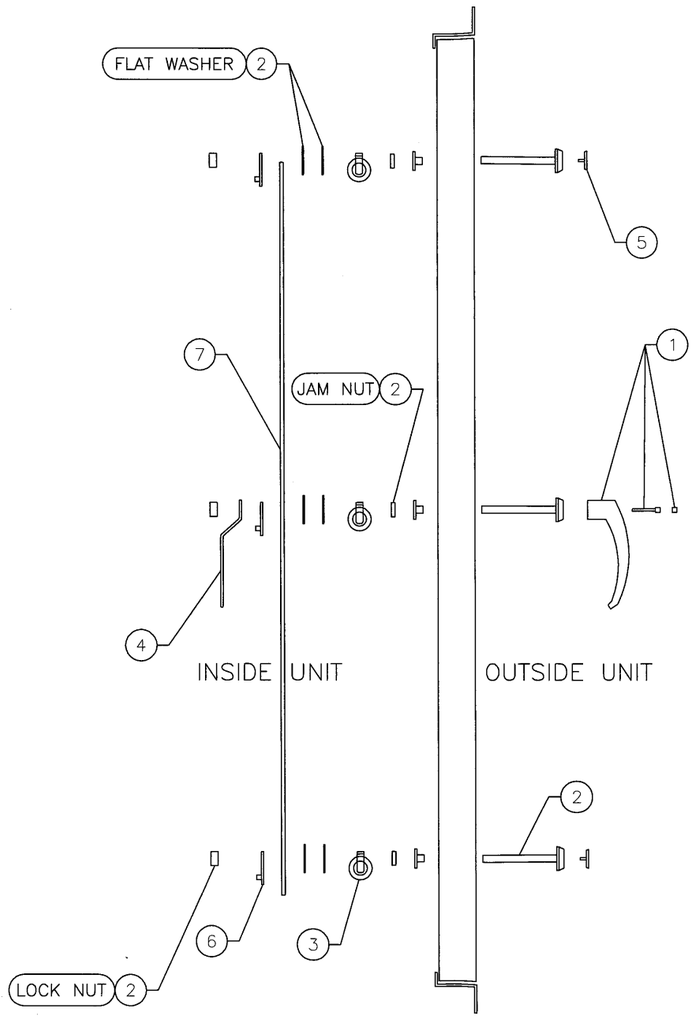
3. NSIDE DOOR HANDLES ARE NOT AVAILABLE ON FF, AF, RF, HF & DI SEGMENTS.



STANDARD DOOR
OUT SWING

** QTY OF DOOR LATCHES

QTY	DOOR HEIGHT
2	20.88" - 68.88"
3	71.88" - 128.88"



STANDARD DOOR
MULTI-POINT OUT SWING

	ITEM	QTY	PART NO.	DESCRIPTION
STANDARD	1	**	034-12001-001	NL L-HANDLE W/SCREW&PLASTIC CAP
OPTIONAL	1	**	034-12001-007	KL L-HANDLE W/SCREW&PLASTIC CAP
OPTIONAL	1	**	034-12001-011	PL L-HANDLE W/SCREW&PLASTIC CAP
	2	**	034-12002-001	MECHANISM, LATCHING
	3	**	034-12002-011	CAM, ROLLER SNUB NOSE
OPTIONAL	4	**	034-12001-005	INSIDE HANDLE W/PLASTIC GRIP
	5	**	034-12002-007	COVER PLUG FOR LOCK
	6	**	034-12002-010	ADAPTER, LINKAGE
	7	**	086-02023-XXX	ROD, 0.315" DIA XX LONG ZINC PLATED
	8	**	029-22088-001	CAM, ROLLER 0.708 DIA

*NOTE:
MULTIPLY QUANTITIES OF EACH ITEM ABOVE BY QUANTITY OF DOOR LATCHES BELOW TO GET PROPER QUANTITIES FOR THE VARIOUS DOOR HEIGHTS.

ROD LENGTH
FOR DOOR HEIGHTS

DASH #	LENGTH	DOOR HEIGHT
001	10"	20.88"
002	13"	23.88"
003	16"	26.88"
004	19"	29.88"
005	22"	32.88"
006	25"	35.88"
007	28"	38.88"
008	31"	41.88"
009	34"	44.88"
010	37"	47.88"
011	40"	50.88"
012	43"	53.88"
013	46"	56.88"
014	49"	59.88"
015	52"	62.88"
016	55"	65.88"
017	58"	68.88"
018	61"	71.88"
019	64"	74.88"
020	67"	77.88"
021	70"	80.88"
022	73"	83.88"
023	76"	86.88"
024	79"	89.88"
025	82"	92.88"
026	85"	95.88"
027	88"	97.88"
028	91"	101.88"
029	94"	104.88"
030	97"	107.88"
031	100"	110.88"
032	103"	113.88"
033	106"	116.88"
034	109"	119.88"
035	112"	122.88"
036	115"	125.88"
037	118"	128.88"

LATCHING PARTS
OUT SWING DOOR

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TEXAS PE # 106516

STATE OF TEXAS
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106516
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chk. by:

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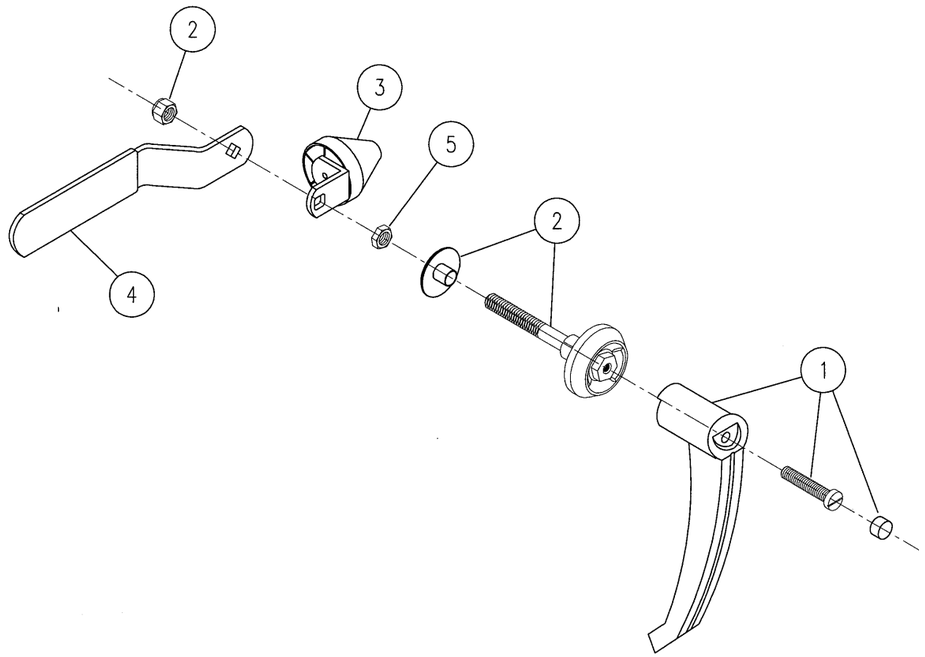
sheet 14.1 of 16

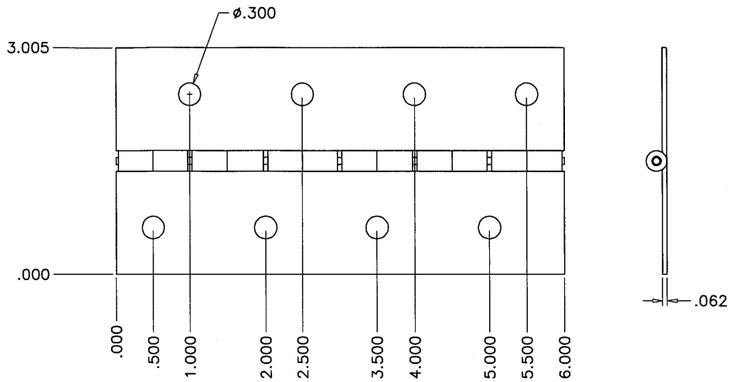


NOTES:
1. CLOCKWISE ROTATION IS SHOWN. MIRROR ASSY FOR COUNTER-CLOCKWISE ROTATION.

ITEM	PART NO.	DESCRIPTION	QTY/ ASSY	REF. DWG.
	391 20016 001	2" OS LATCH ASSY PLT		
1	029 23801 010	DOOR HANDLE 265076-00	1	
2	029 23801 012	DOOR LATCH HOUSING 265078-S50	1	
3	029 23801 013	DOOR ROLLER CAM 2321S07-R01	1	
4	029 23801 015	DOOR INSIDE HANDLE 265076-50	1	
5	021 30415 001	NUT,JAM,PLTD,.22THK,.38-16	1	

LATCH ASSEMBLY WITH PLATED FASTENERS OUT SWING DOOR

Material: 16 GA, #304 Stainless Steel



HINGE

JAVAD AHMAD
TEXAS PE # 106516

STATE OF TEXAS
JAVAD AHMAD
106516
LICENSED PROFESSIONAL ENGINEER

Date & Time: 04/13/15 12:02

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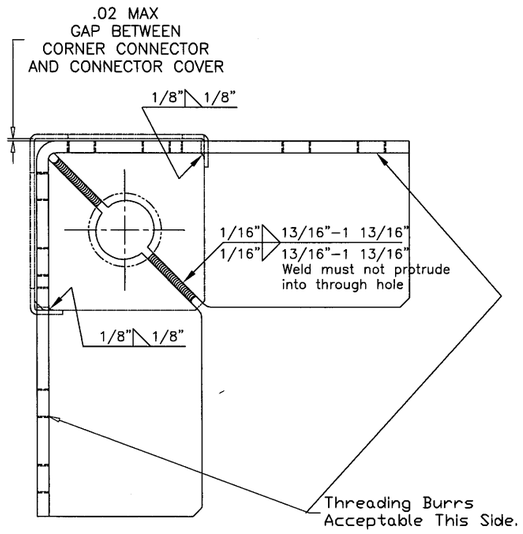
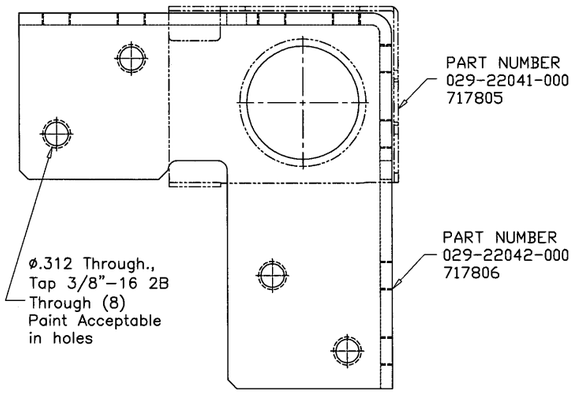
dr. by: HAMID
chk. by:

drawing no.
13-05

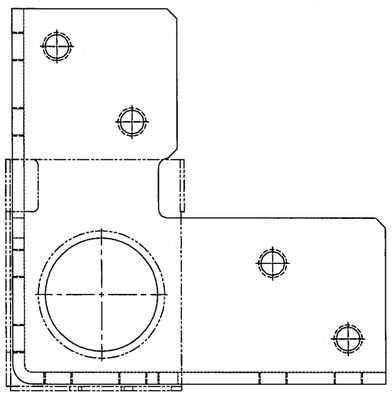
sheet 14.2 of 16



TOP VIEW



EXTERIOR SIDE VIEW



INTERIOR SIDE VIEW

Notes:

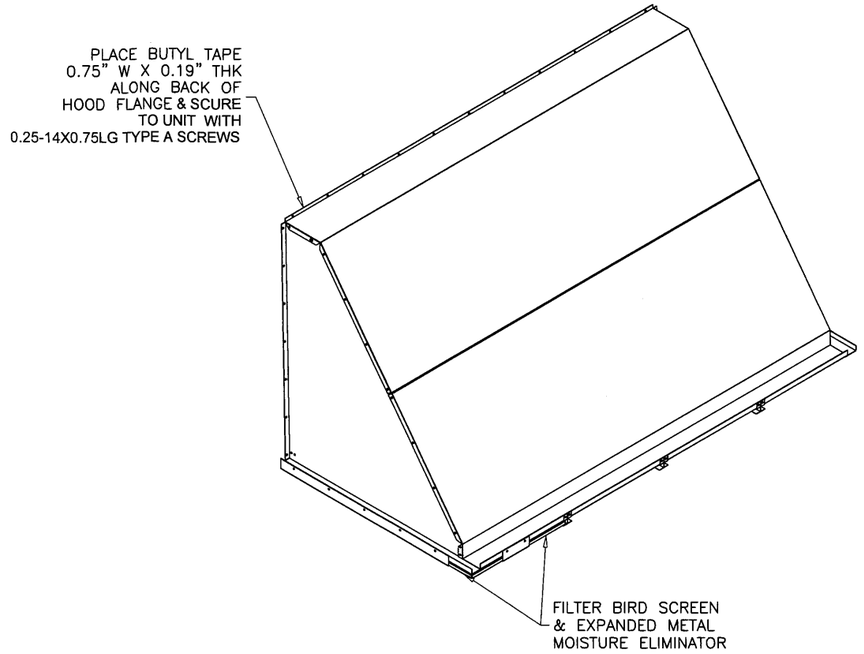
1) Gap can not accept 1/2" wide feeler stock.

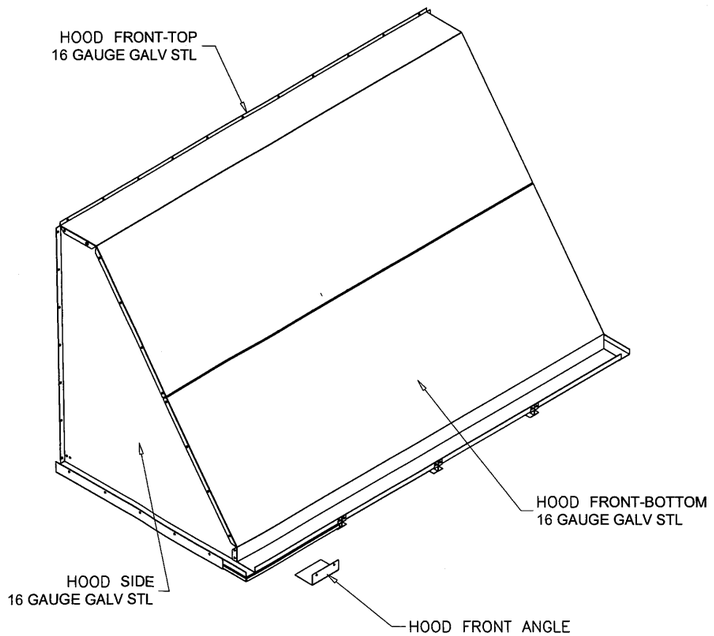
2) Finish - Annodized Silver Powder Coat Paint.

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 12:02

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

COOLER\13-05YIC

SOLUTION XT ROOFTOP AIR HANDLING UNIT

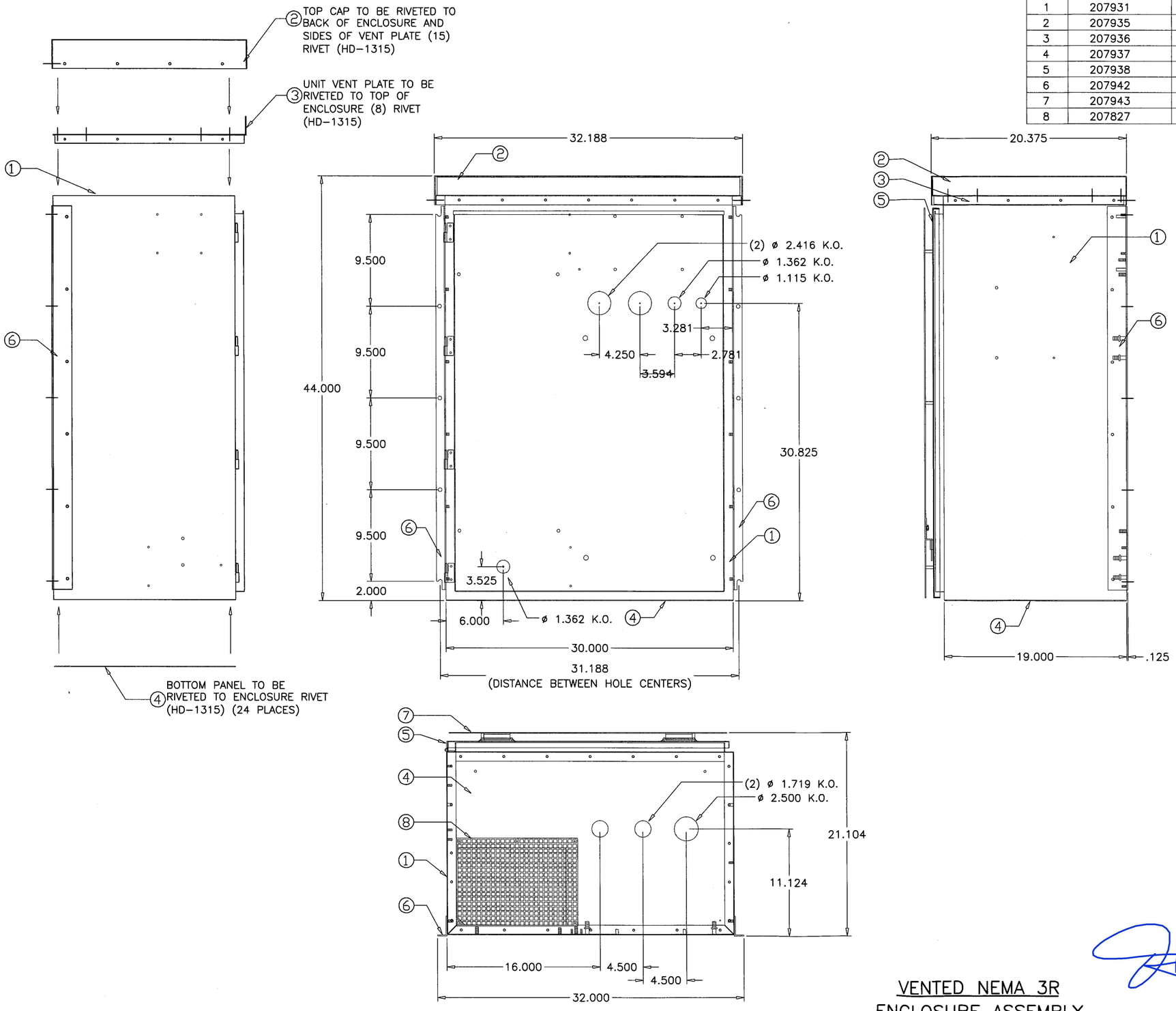
YORK/JOHNSON CONTROLS INC.
1499 EAST PHILADELPHIA STREET
YORK, PA. 17403
TEL. (717) 815-4218 FAX. (717) 815-4198

revisions:			
no	date	by	description

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

drawing no.
13–05

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

Date & Time: 04/13/15 12:02

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revisions:

no	date	by	description

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

JAVAD AHMAD
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STATE OF TEXAS
JAVAD AHMAD
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sheet 16 of 16