



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908**

NOTICE OF ACCEPTANCE (NOA)

**Carrier Air Conditioning Co.
P.O. Box 4808
Syracuse, NY 13221-4808**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aero 39M Central Station Air Handler Unit

APPROVAL DOCUMENT: Drawing No. 02-1021-116, titled " Aero 39M Central Station Air Handler ", sheets 1 through 9 of 9, prepared by Frank L. Bennardo, P.E. Consulting Engineer, dated April 9, 2004, signed and sealed by Frank L. Bennardo, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence submitted page (s) as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E.**

Helmy A. Makar
10/21/2004



**NOA No 04-0503.01
Expiration Date: 10/21/2009
Approval Date: 10/21/2004
Page 1**

Carrier air conditioning Co.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 02-1021-116, titled " Aero 39M Central Station Air Handler ", sheets 1 through 9 of 9, prepared by Frank L. Bennardo, P.E. Consulting Engineer, dated April 9, 2004, signed and sealed by Frank L. Bennardo, P.E.*

B. TESTS

1. *Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Aero 39M Central Station Air Handler Unit, prepared by American Test Lab of South Florida, Test Report No. 1029.01-02, dated April 16, 2004, signed and sealed by William R. Mehner, P.E.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

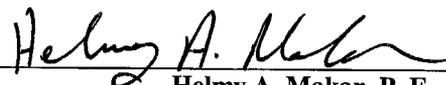
1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *Die Drawings.*

F. STATEMENTS

1. *Statement letter of conformance, dated April 28, 2004, signed and sealed by Frank L. Bennardo, P.E.*
2. *Statement letter of no financial interest, dated April 28, 2004, signed and sealed by Frank L. Bennardo, P.E.*



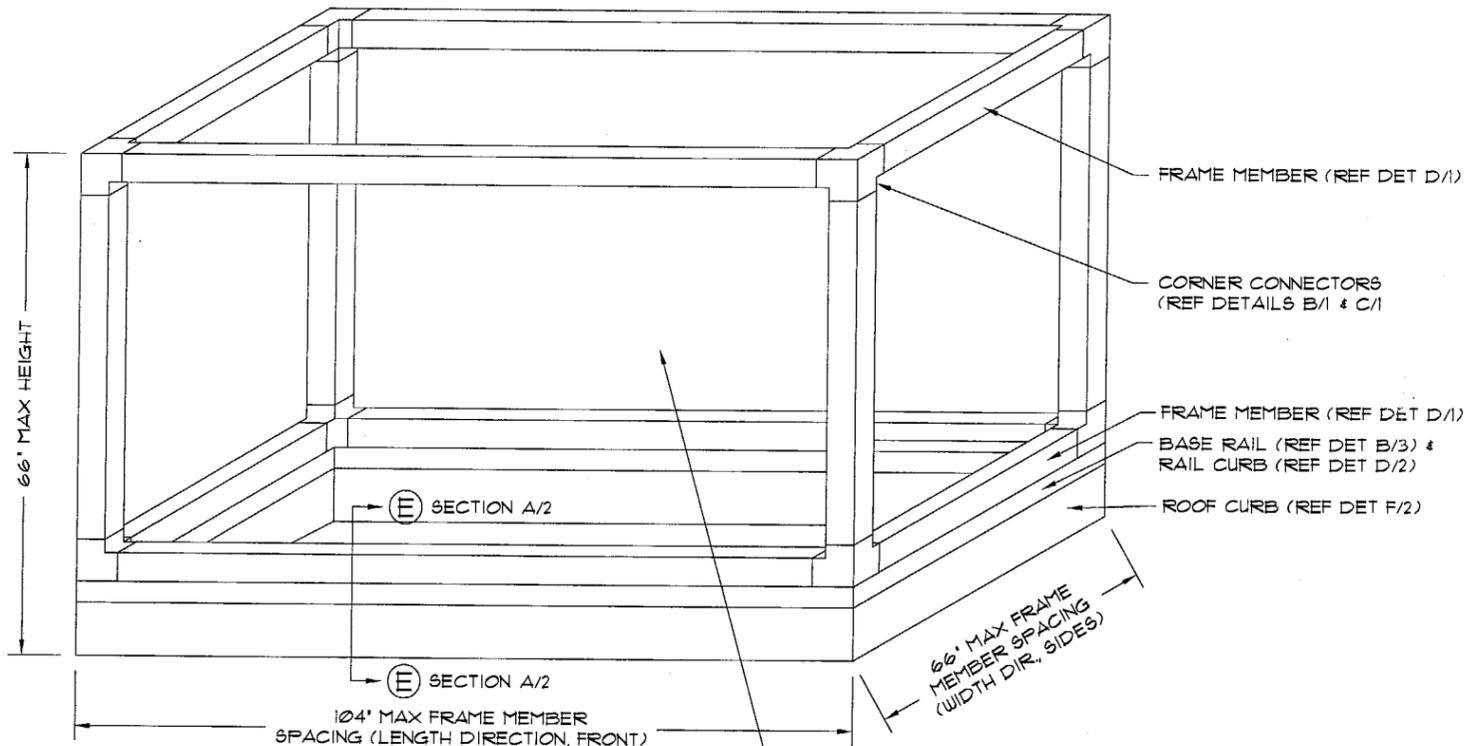
Helmy A. Makar, P. E.

Product Control Examiner

NOA No 04-0503.01

Expiration Date: 10/21/2009

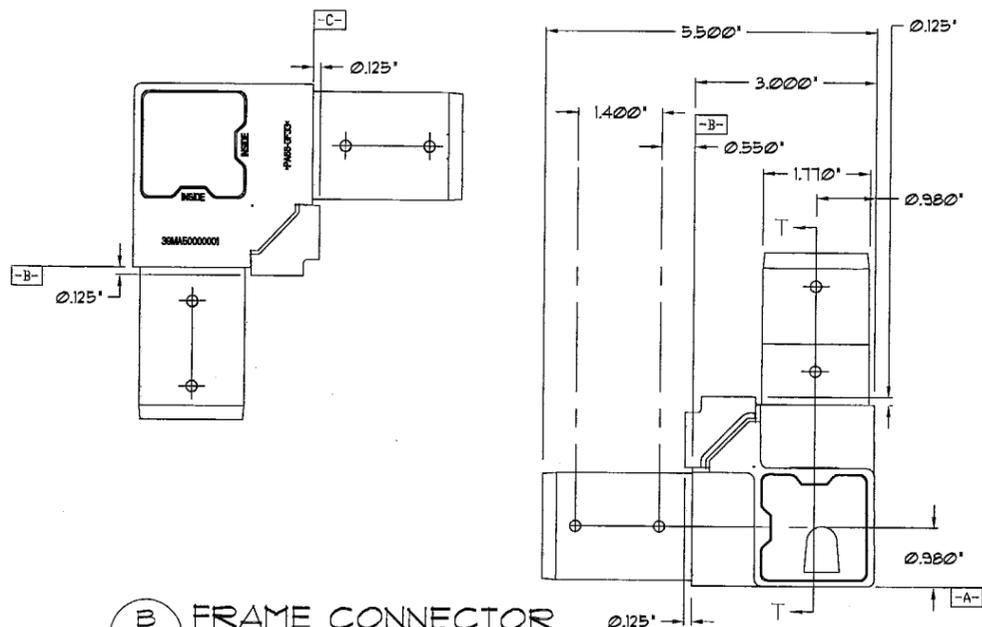
Approval Date: 10/21/2004



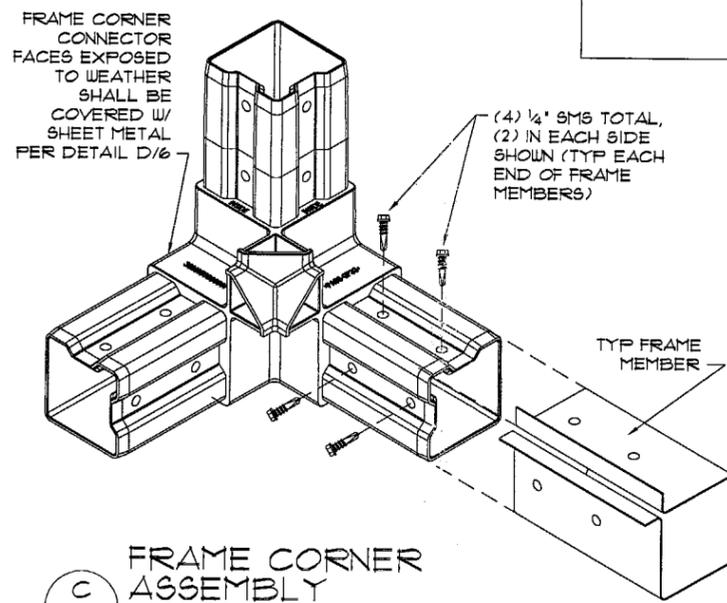
NOTE: FRAMES MAY BE INSTALLED SIDE-BY-SIDE TO UNLIMITED OVERALL LENGTHS & WIDTHS

FRAMES SUPPORT PANELS OF VARIOUS TYPES AND CONFIGURATIONS (SEE MANUFACTURER'S PRODUCT DATA FOR APPLICABLE PANEL TYPES)

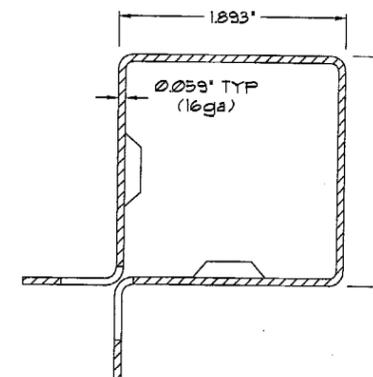
A AIR HANDLER FRAME ISOMETRIC
SCALE: 1/2" = 1'



B FRAME CONNECTOR
N.T.S.



C FRAME CORNER ASSEMBLY
N.T.S.



D FRAME MEMBER SECTION
N.T.S.

DESIGN PRESSURES

MAX ALLOWABLE PRESSURES:
ROOF: ±48.75 PSF
WALLS: ±65.0 PSF

GENERAL NOTES:

- 1) THIS ROOFTOP AIR HANDLER SYSTEM HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2001 FLORIDA BUILDING CODE AND THE TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONES (TAS 201, TAS 202, & TAS 203).
- 2) NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT.
- 3) POSITIVE AND NEGATIVE DESIGN PRESSURES TO BE USED WITH THESE DRAWINGS SHALL BE DETERMINED BY OTHERS FOR SPECIFIC JOBS IN ACCORDANCE WITH THE GOVERNING CODE.
- 4) UNIT DIMENSIONS SHOWN HEREIN ARE MAXIMUM DIMENSIONS NOT TO BE EXCEEDED. INDIVIDUAL UNITS MAY BE INSTALLED END-TO-END TO UNLIMITED WIDTHS OR LENGTHS.
- 5) FASTENING OF THE UNIT TO THE ROOF CURB AND ANCHORAGE OF THE ROOF CURB TO THE HOST STRUCTURE ARE BEYOND THE SCOPE OF THIS APPROVAL. THESE FASTENINGS SHALL BE DESIGNED BY OTHERS AND SUBMITTED TO THE GOVERNING BUILDING DEPARTMENT FOR REVIEW.
- 6) THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE-SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.
- 7) PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND NEW SUPERIMPOSED LOADS.
- 8) ALL WALL, ROOF, & FLOOR PANELS SHALL BE CONSTRUCTED USING 22ga GALVANIZED STEEL (0.033\"/>

AUG 03 2004

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FE0046343

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Carrier
A United Technologies Company
P.O. Box 4808, Syracuse, NY 13221-4808



AERO 39M
CENTRAL STATION AIR HANDLER

Approved as complying with the Florida Building Code
Date 10/21/2004
NOA# 04-0503.01
Miami Dade Product Control Division
By: *Helmut A. Mader*

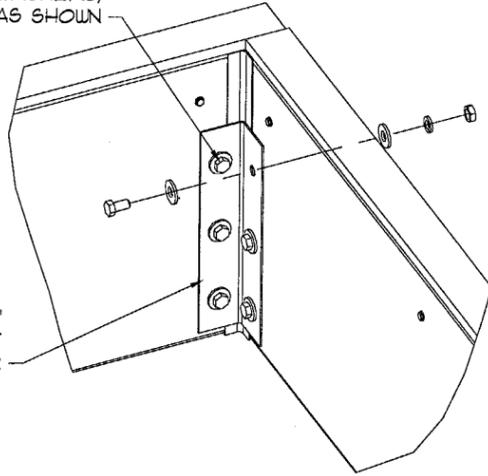
REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	7/30/2004

SCALE: 4" = 1' (UNO)
DRAWN BY: CL
CHECKED BY: FLB
PRINT DATE: 4/5/2004
JOB #: 02-1021-16

SHEET:
1 OF 9

(3) 3/8"-16 THROBOLTS TO EACH CURB (6 TOTAL PER CORNER), W/ NUT, WASHERS, 4 LOCK-WASHER AS SHOWN

(1) 2"x2"x10"x0.062" STEEL BRACKET PER CORNER

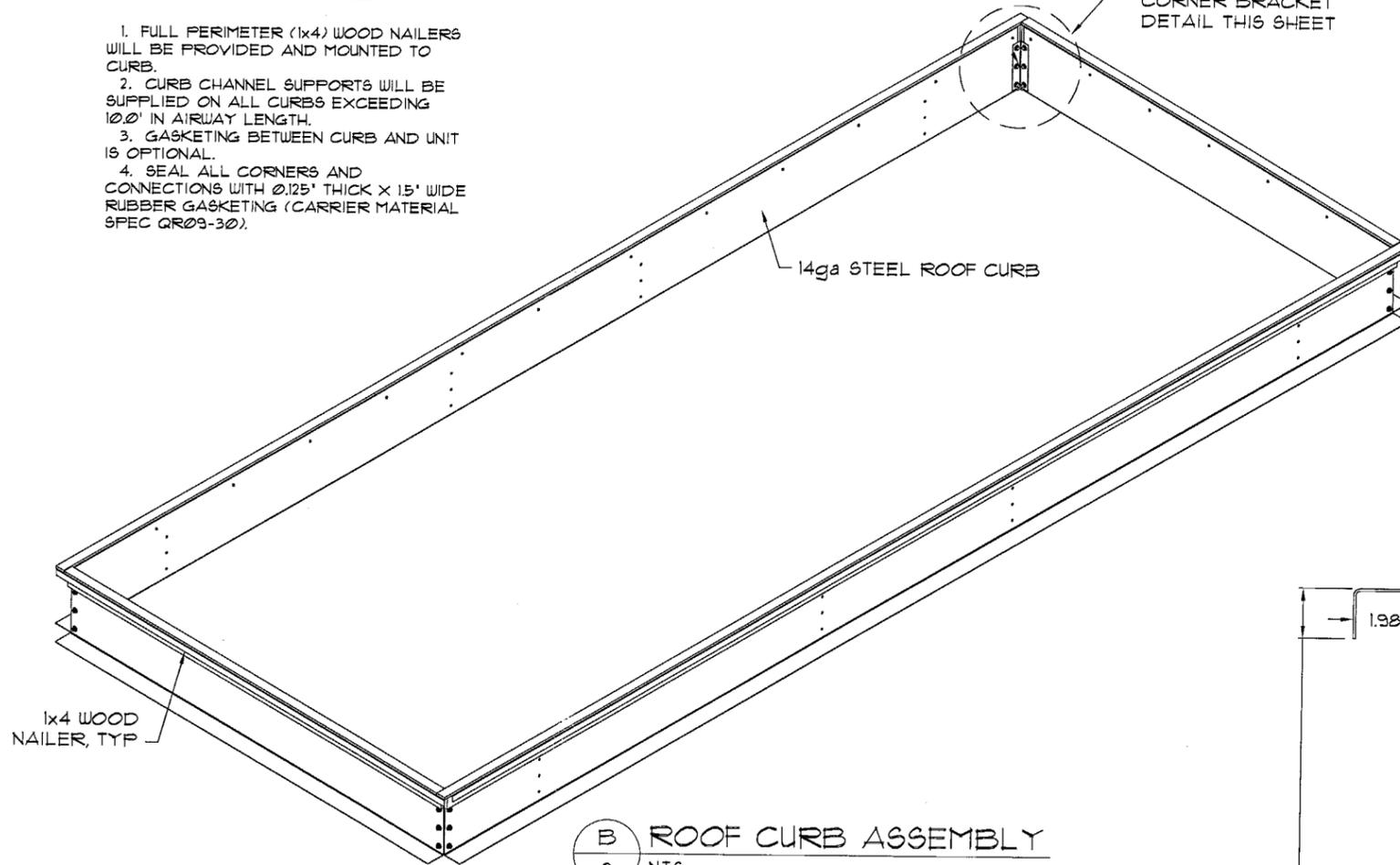


C ROOF CURB CORNER BRACKET DETAIL
2 N.T.S.

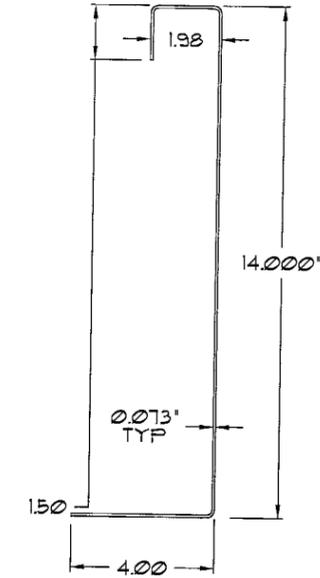
ROOF CURB NOTES:

1. FULL PERIMETER (1x4) WOOD NAILERS WILL BE PROVIDED AND MOUNTED TO CURB.
2. CURB CHANNEL SUPPORTS WILL BE SUPPLIED ON ALL CURBS EXCEEDING 10'0" IN AIRWAY LENGTH.
3. GASKETING BETWEEN CURB AND UNIT IS OPTIONAL.
4. SEAL ALL CORNERS AND CONNECTIONS WITH 0.125" THICK X 15' WIDE RUBBER GASKETING (CARRIER MATERIAL SPEC QR03-30).

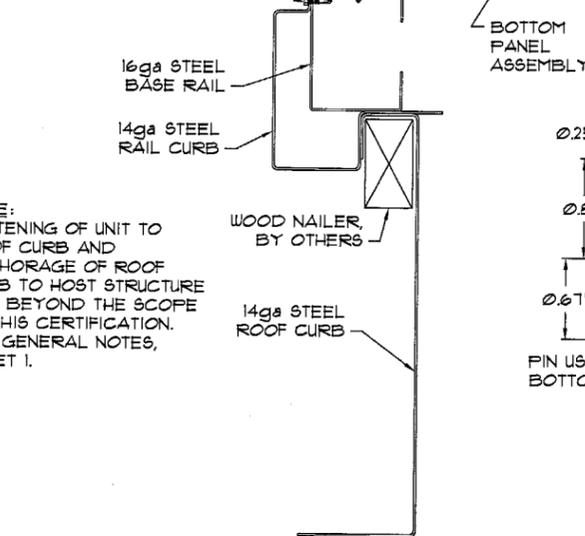
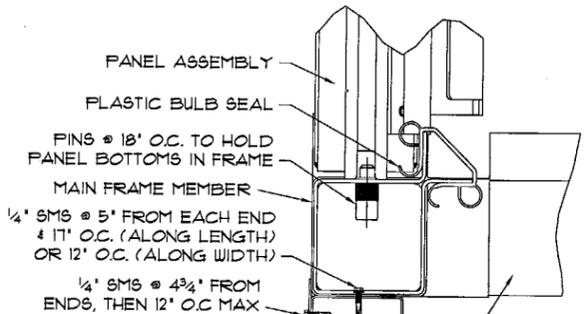
SEE ROOF CURB CORNER BRACKET DETAIL THIS SHEET



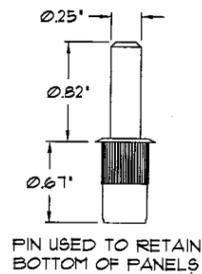
B ROOF CURB ASSEMBLY
2 N.T.S.



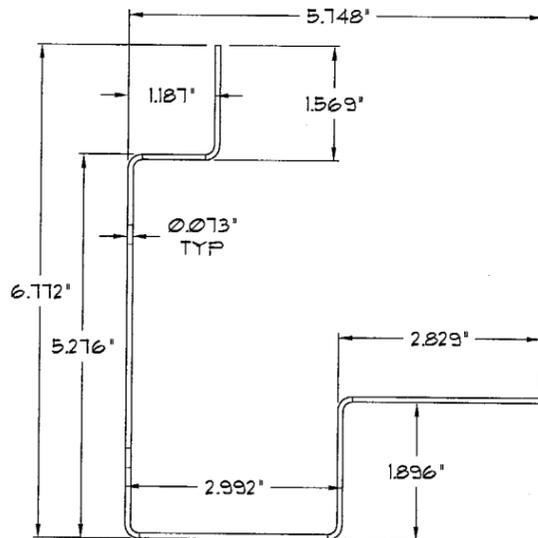
F ROOF CURB
2 N.T.S.



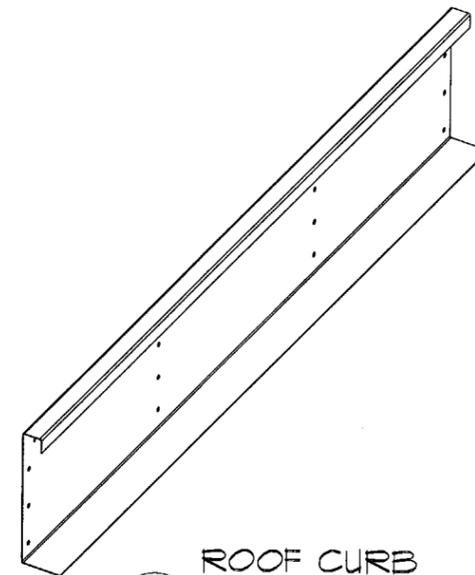
NOTE:
FASTENING OF UNIT TO ROOF CURB AND ANCHORAGE OF ROOF CURB TO HOST STRUCTURE ARE BEYOND THE SCOPE OF THIS CERTIFICATION. SEE GENERAL NOTES, SHEET 1.



PIN USED TO RETAIN BOTTOM OF PANELS



D RAIL CURB
2 N.T.S.



E ROOF CURB ISOMETRIC
2 N.T.S.

A UNIT SUPPORT ASSEMBLY
2 N.T.S.

AUG 03 2004

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AERO 39M
CENTRAL STATION AIR HANDLER

Approved as complying with the Florida Building Code
Date 10/21/2004
NOA# 04-0503.01
Miami Dade Product Control Division
By *Heidi A. Miller*

REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	7/30/2004

SCALE: N.T.S.
DRAWN BY: CL
CHECKED BY: FLB
PRINT DATE: 4/5/2004
JOB #: 02-1021-116

SHEET:
2 OF 9

AUG 03 2004

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PE0046749

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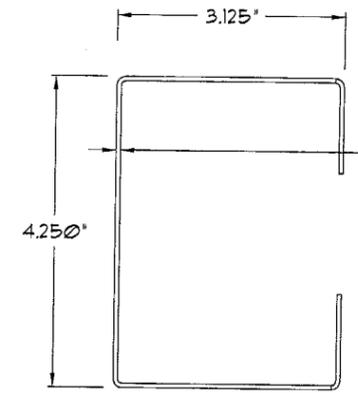


AERO 39M
CENTRAL STATION AIR HANDLER

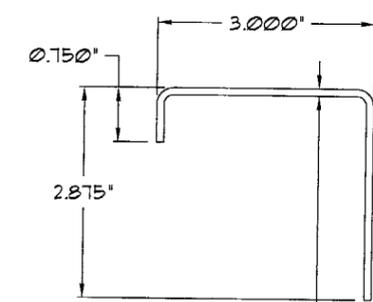
REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	7/30/2004

SCALE: n.t.s.
DRAWN BY: CL
CHECKED BY: FLB
PRINT DATE: 4/9/2004
JOB #: 02-1021-116

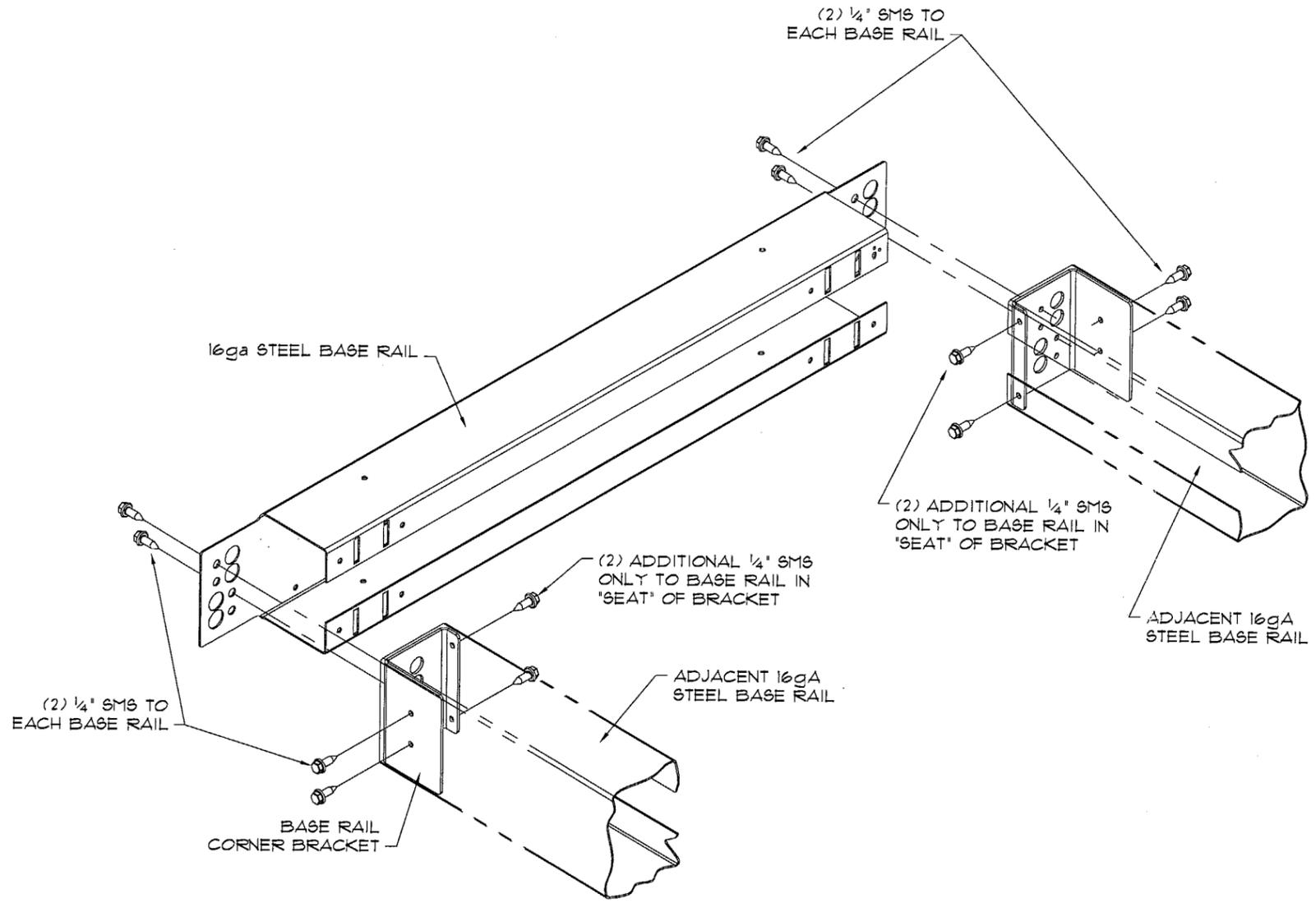
SHEET:
3 OF 9



B BASE RAIL
3 N.T.S.



C BASE RAIL
CORNER BRACKET
3 N.T.S.



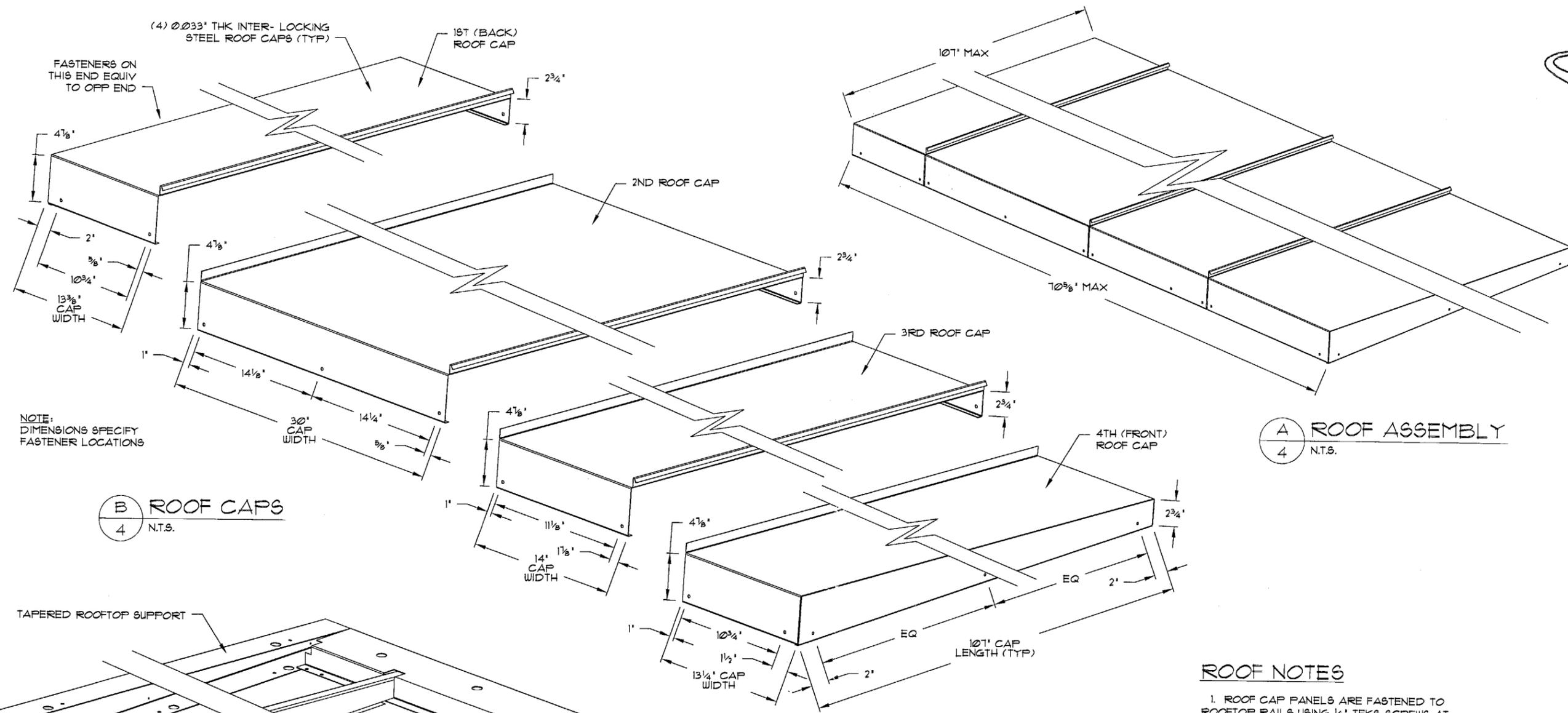
A BASE RAIL ASSEMBLY
3 N.T.S.

Approved as complying with the
Florida Building Code
Date 10/21/2004
NOA# 04-0503-01
Miami Dade Product Control
Division
By Heidi H. Miller

AUG 03 2004

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A ROOF ASSEMBLY
4 N.T.S.

B ROOF CAPS
4 N.T.S.

C ROOFTOP RAIL
4 N.T.S.

ROOF NOTES

1. ROOF CAP PANELS ARE FASTENED TO ROOFTOP RAILS USING 1/4\"/>

Approved as complying with the
Florida Building Code
Date 10/21/2004
NOA# 04-0503.01
Miami Dade Product Control
Division
By Helmut A. Weber

REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	7/30/2004

SCALE: N.T.S.
DRAWN BY: CL
CHECKED BY: FLB
PRINT DATE: 4/5/2004
JOB #: 02-1021-116

SHEET:
4 OF 9

Carrier
A United Technologies Company
P.O. Box 4808, Syracuse, NY 13221-4808

CENTRAL STATION AIR HANDLER
AERO 39M

AUG 03 2004

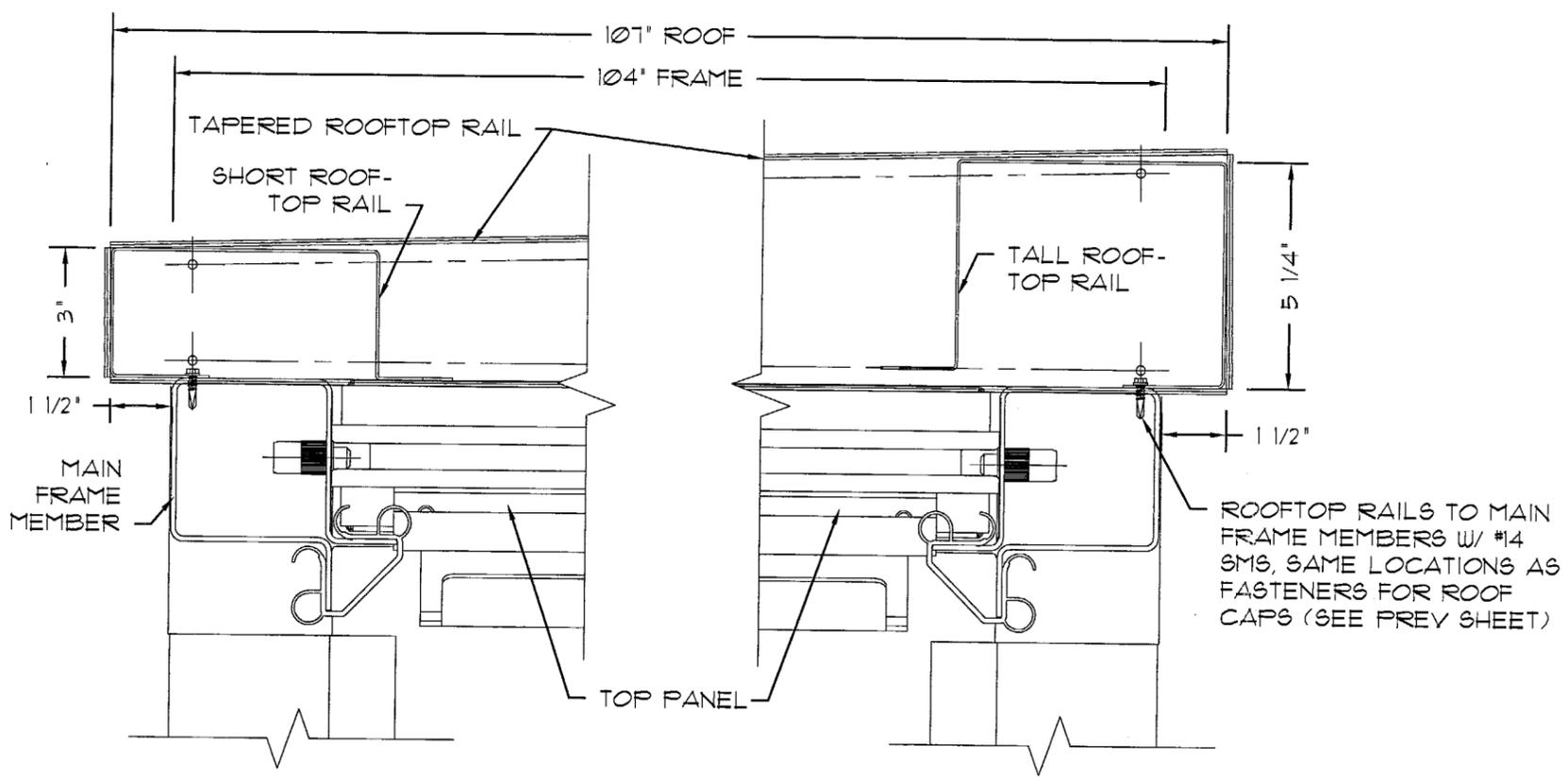
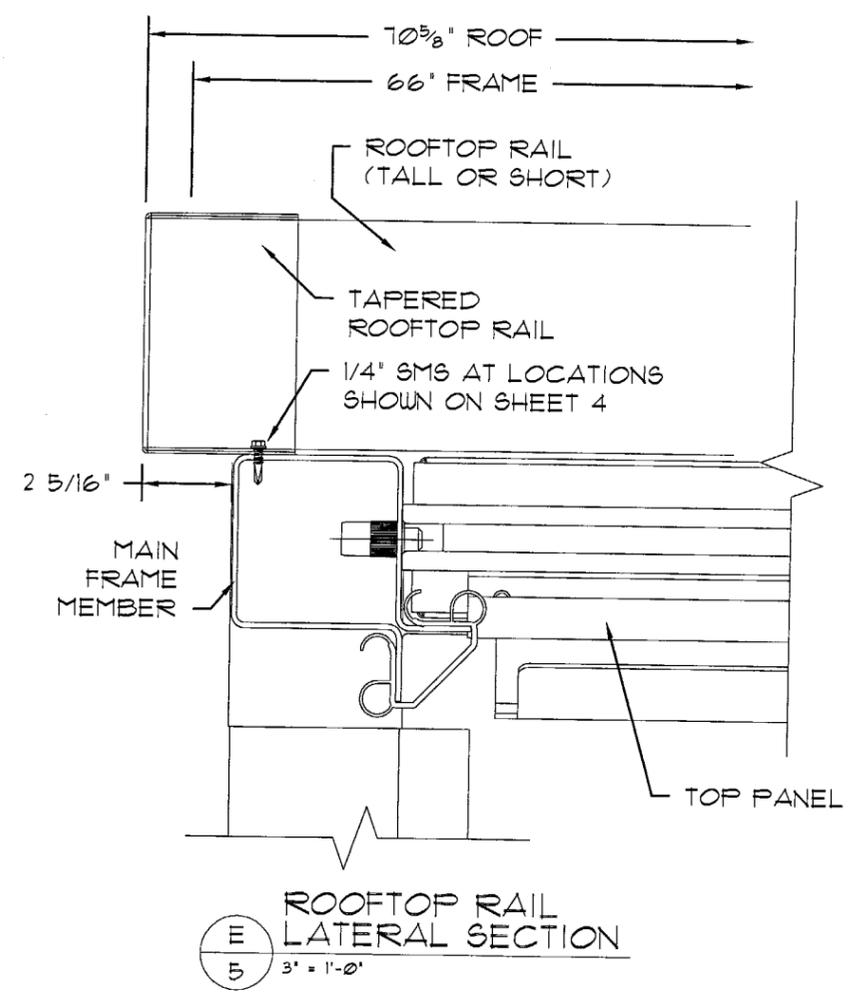
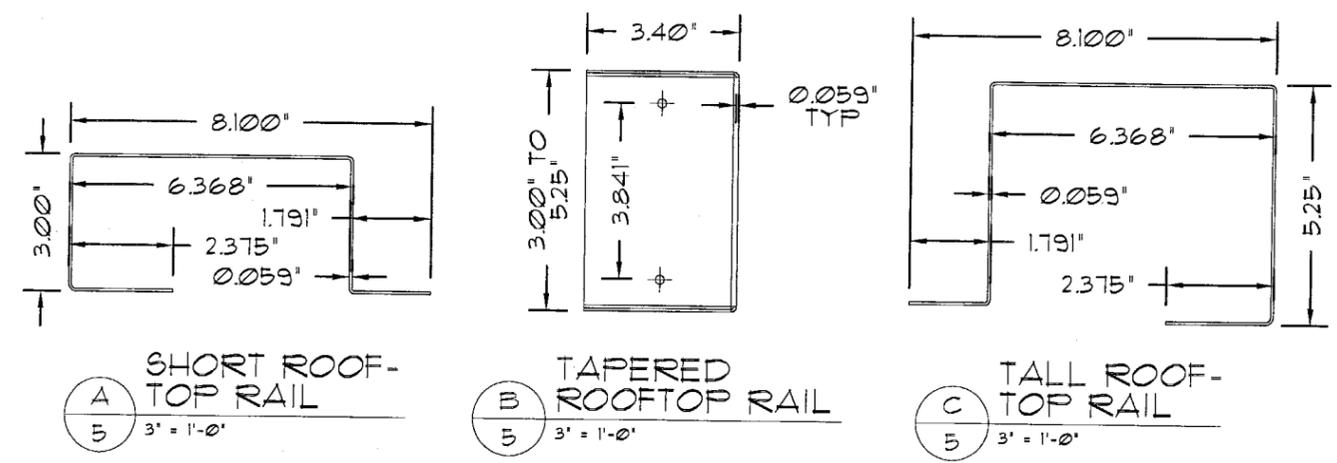
FRANK L. BENNARDO, P.E.
PE0046549

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AERO 39M
CENTRAL STATION AIR HANDLER

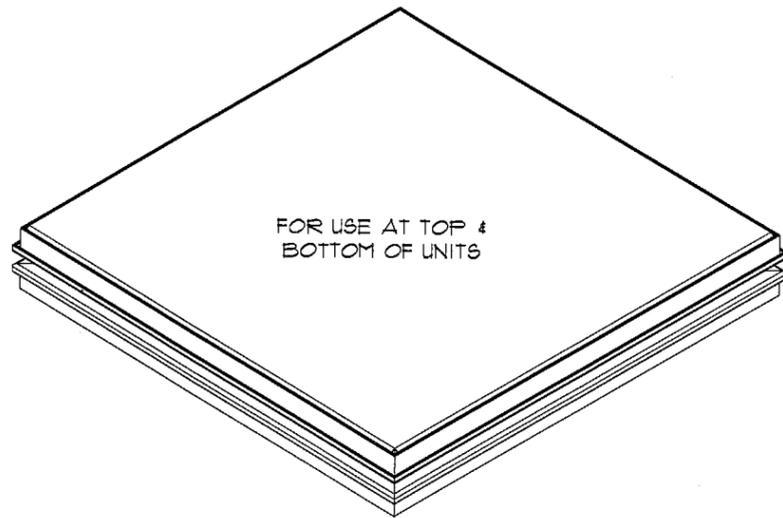


D ROOFTOP RAIL LONGITUDINAL SECTION
5 3' = 1'-0"

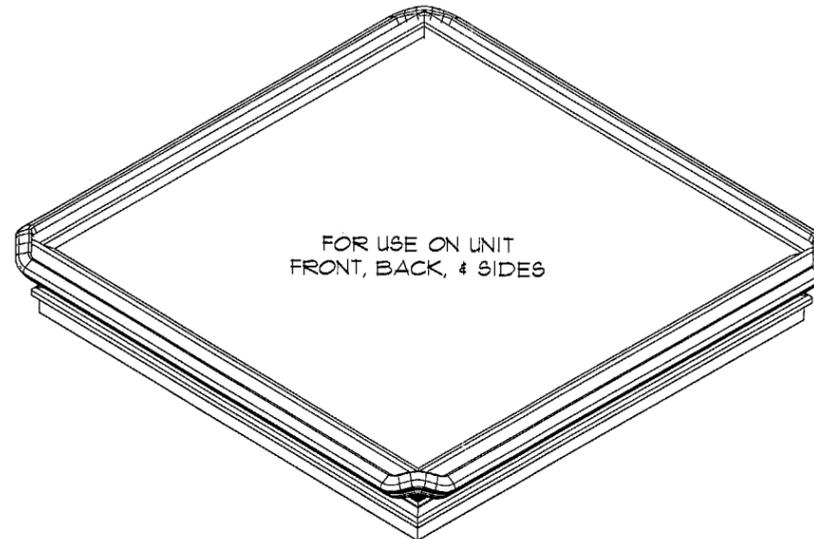
Approved as complying with the Florida Building Code
Date 10/21/2004
NOA# 04-0503.01
Miami Dade Product Control
Division
By: Heung H. Miller

REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	1/30/2004

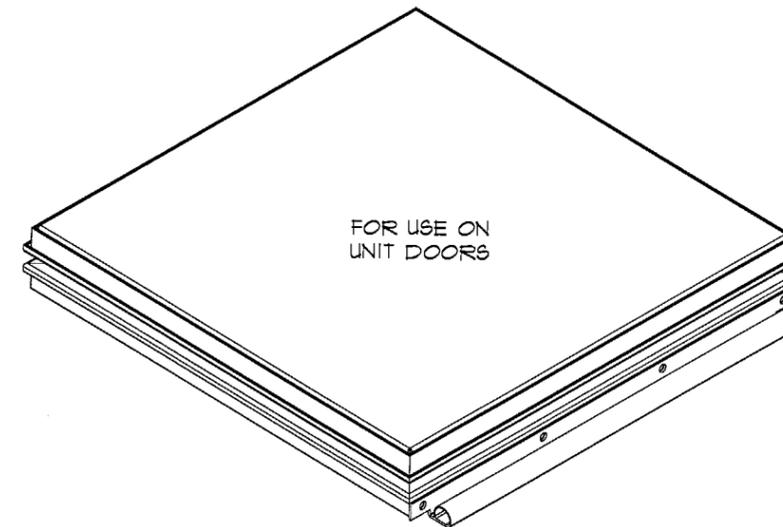
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PRINT DATE: 4/9/2004
JOB #: 02-1021-116



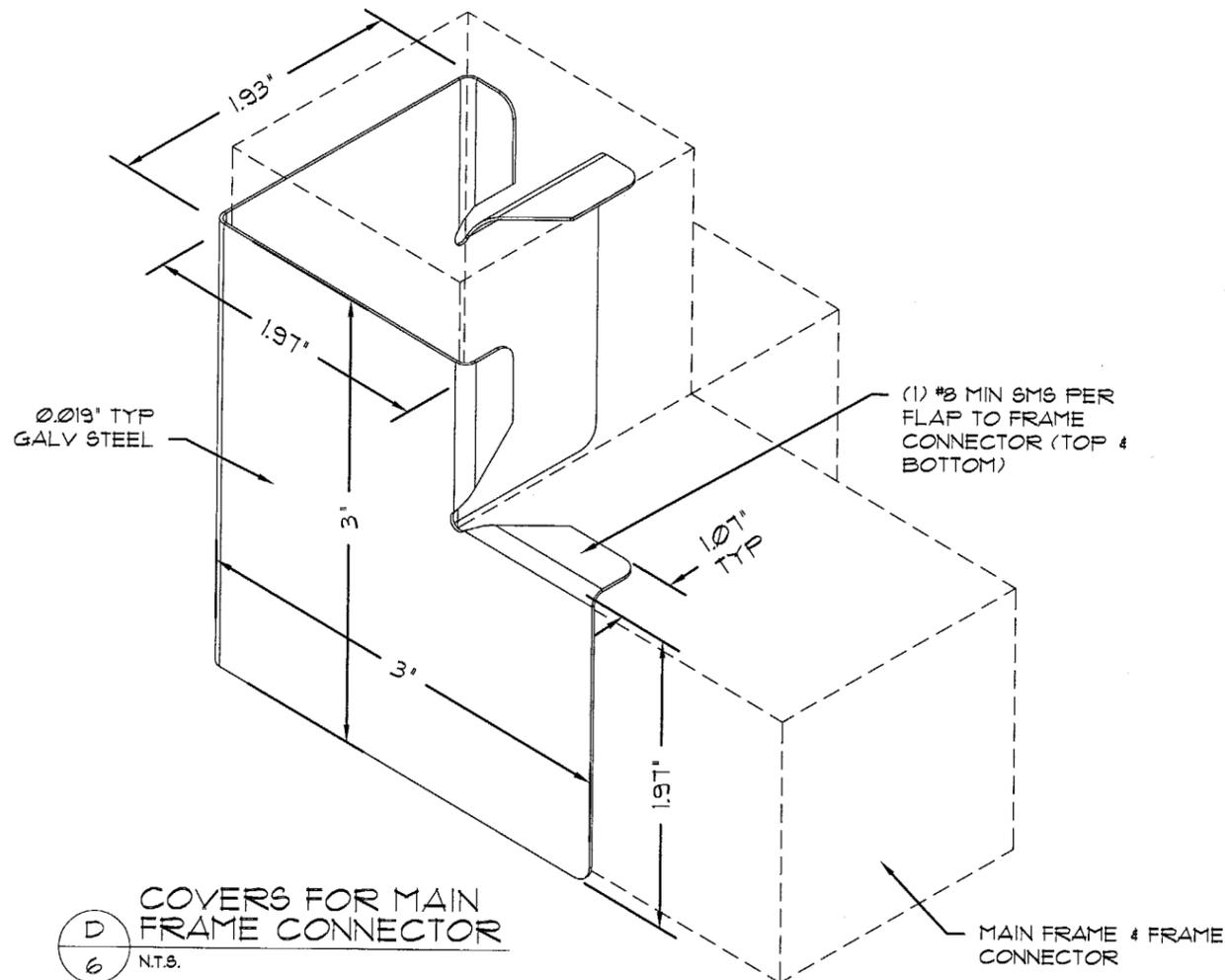
A STANDARD PANEL
6 N.T.S.



B REMOVABLE PANEL
6 N.T.S.



C DOOR "MULLION" PANEL
6 N.T.S.



D COVERS FOR MAIN FRAME CONNECTOR
6 N.T.S.

AUG 03 2004

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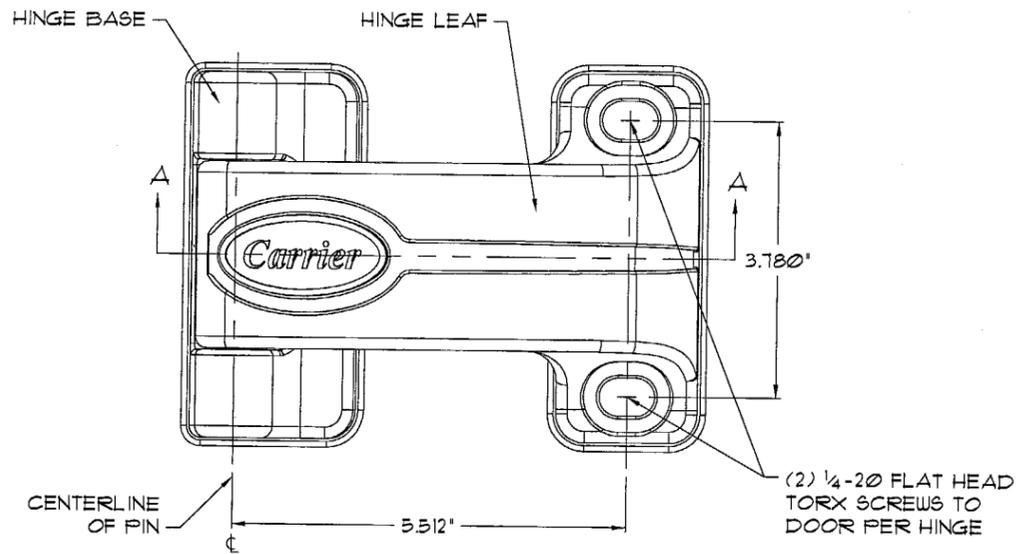
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By Heung A. Makin

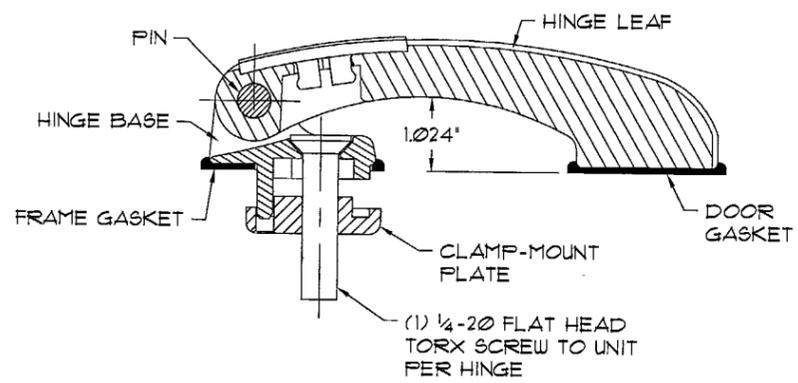
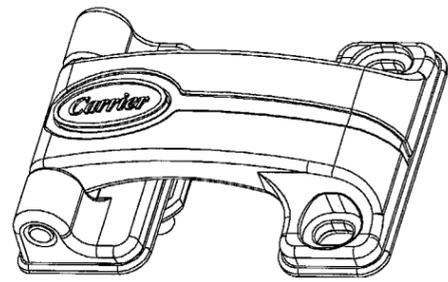
REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	7/30/2004

SCALE: N.T.S.
DRAWN BY: CL
CHECKED BY: FLB
PRINT DATE: 4/9/2004
JOB #: 02-1021-16

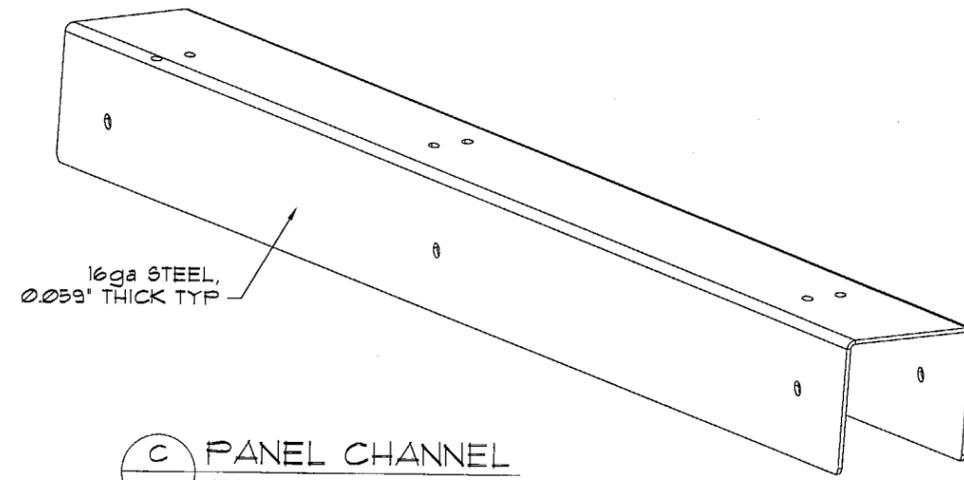
SHEET:
6 OF 9



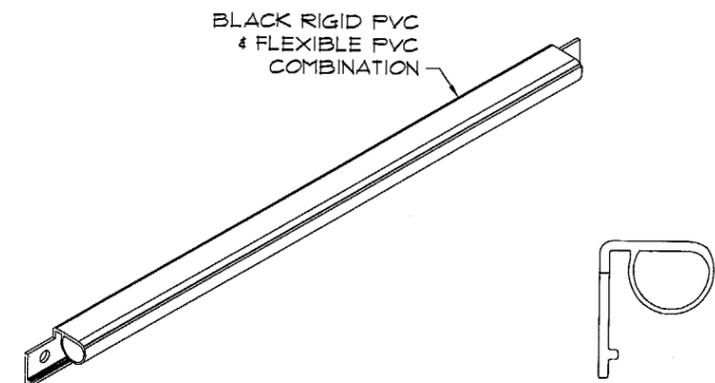
A HINGE TOP VIEW
1 N.T.S.



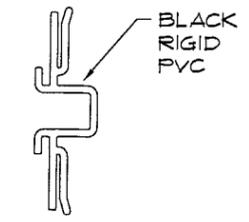
B HINGE SECTION A-A
1 N.T.S.



C PANEL CHANNEL
1 N.T.S.



D MULLION PANEL EXTRUSION
1 N.T.S.



F PANEL PERIMETER EXTRUSION
1 N.T.S.

Approved as complying with the Florida Building Code
 Date 10/21/2004
 NOAH 04-0503.01
 Miami Dade Product Control
 Division
 By *Harvey A. Miller*

REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	7/30/2004

SCALE: N.T.S.
 DRAWN BY: CL
 CHECKED BY: FLB
 PRINT DATE: 4/5/2004
 JOB #: 02-1021-116

AUG 03 2004

FRANK L. BENNARDO, P.E.
 FE0046543

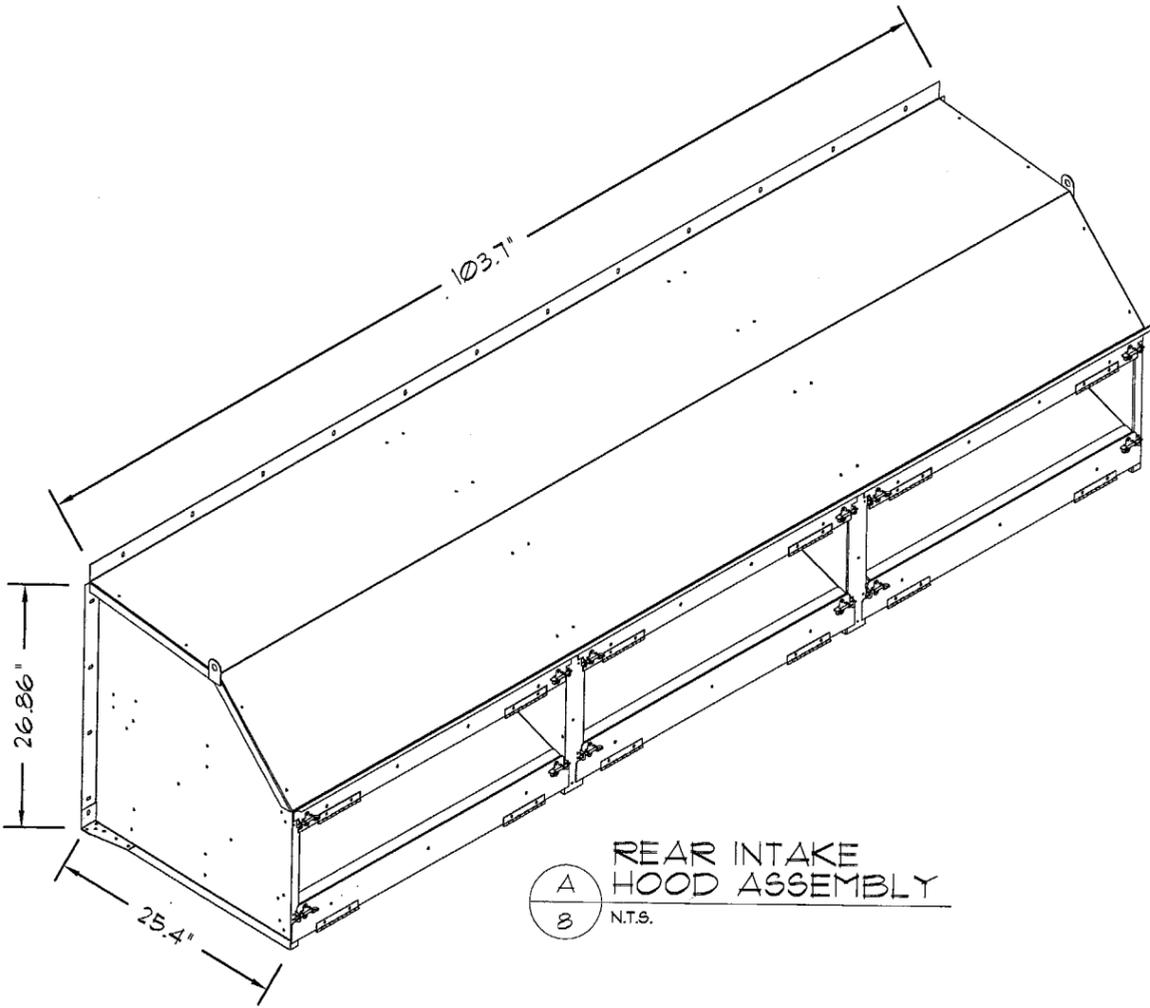
FRANK L. BENNARDO, P.E.
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CENTRAL STATION AIR HANDLER
 AERO 39M

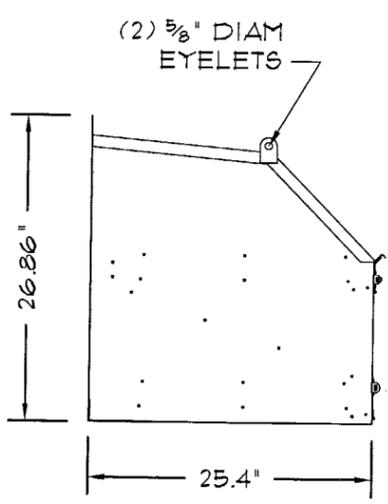
AUG 03 2004



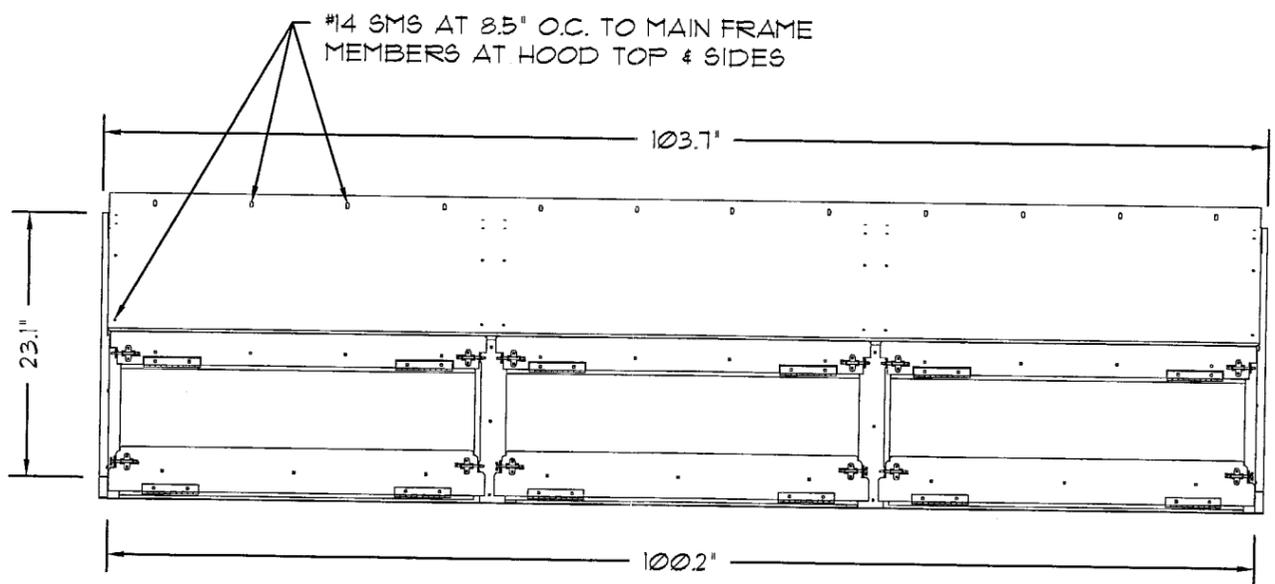
A REAR INTAKE HOOD ASSEMBLY
8 N.T.S.

REAR INTAKE/EXHAUST HOOD NOTES:

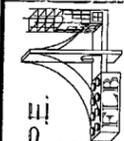
1. HOODS TO BE CONSTRUCTED OF GALVANIZED PRE-PAINTED STEEL (CARRIER SPEC VA05-34), GAGE TO BE DETERMINED BY UNIT STRENGTH REQUIREMENTS. THERE SHALL BE NO EXPOSED BARE METAL WHICH COULD RUST.
2. EXHAUST AND INTAKE HOODS ARE NOT REQUIRED TO BE IDENTICAL IN DESIGN.
3. A BIRD SCREEN SHALL BE INSTALLED ON ALL EXHAUST HOODS THAT PREVENTS THE PENETRATION OF A 1/2' DIAMETER PROBE. IT SHALL BE CONSTRUCTED OF A CORROSION RESISTANT MATERIAL.
4. HOODS ARE TO BE MOUNTED ENTIRELY ON THE FACE OF THE UNIT'S FRAME MEMBERS. MOUNTING TO THE CORNERS IS NOT ALLOWED.
5. THE LOWEST PORTION OF THE HOOD INLET SHALL BE A MINIMUM OF 4.5' ABOVE THE BOTTOM OF THE FRAME. ANY OPENING CREATED BY THIS SHALL BE COVERED BY THE HOOD.



B REAR INTAKE HOOD DETAILS
8 N.T.S.



FRANK L. BENNARDO, P.E.
PE0046543



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4441 NORTH DIXIE HIGHWAY
BOCA RATON, FL 33431
(561) 391-2888 FAX: (561) 391-2862
WWW.FLBENGINEERING.COM
EMAIL: FRANK@FLBENGINEERING.COM

Carrier
A United Technologies Company
P.O. Box 4808, Syracuse, NY 13221-4808

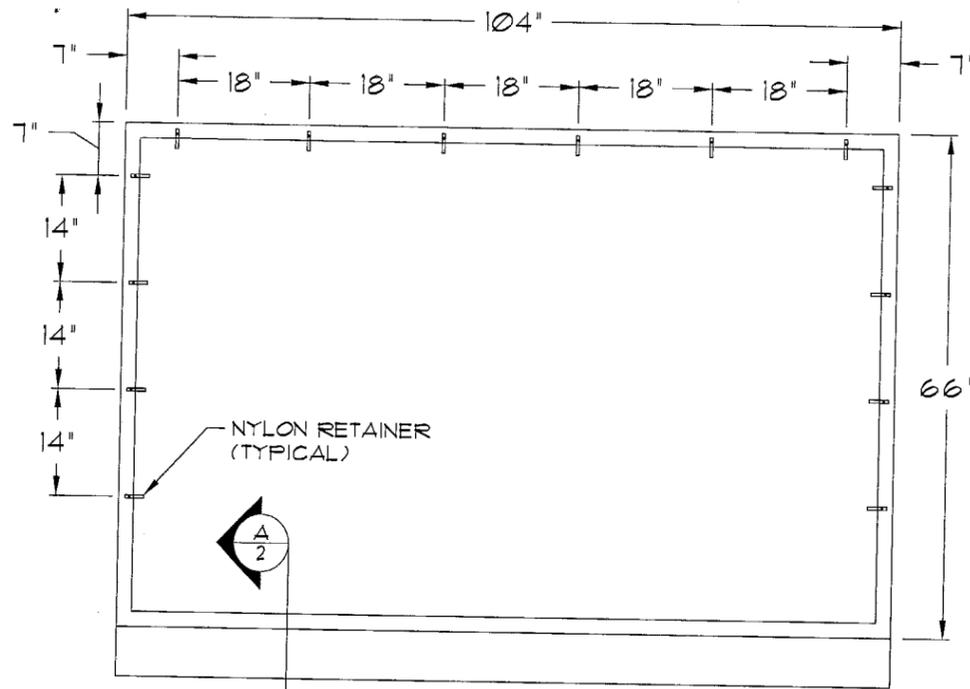


AERO 39M
CENTRAL STATION AIR HANDLER

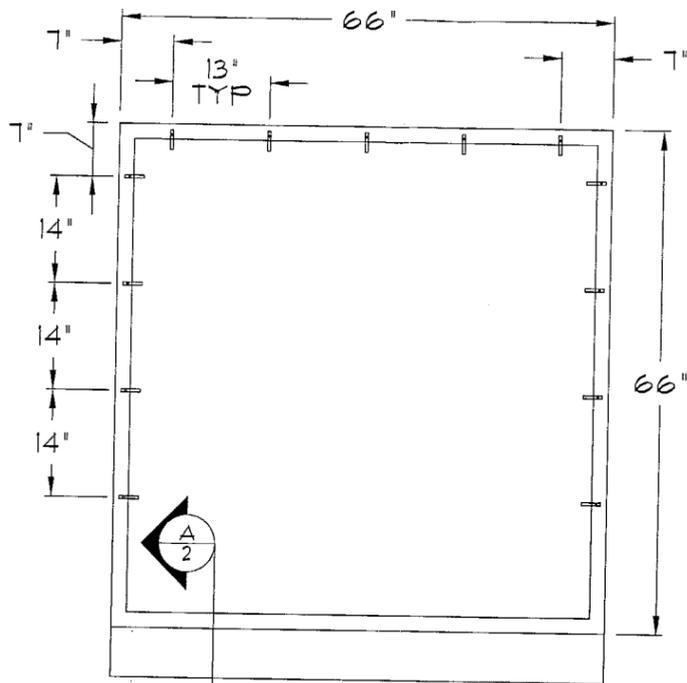
Approved as complying with the
Florida Building Code
Date 10/21/2004
NOA# 04-0503.01
Miami Dade Product Control
Division
By Heidi A. Miller

REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	7/30/2004

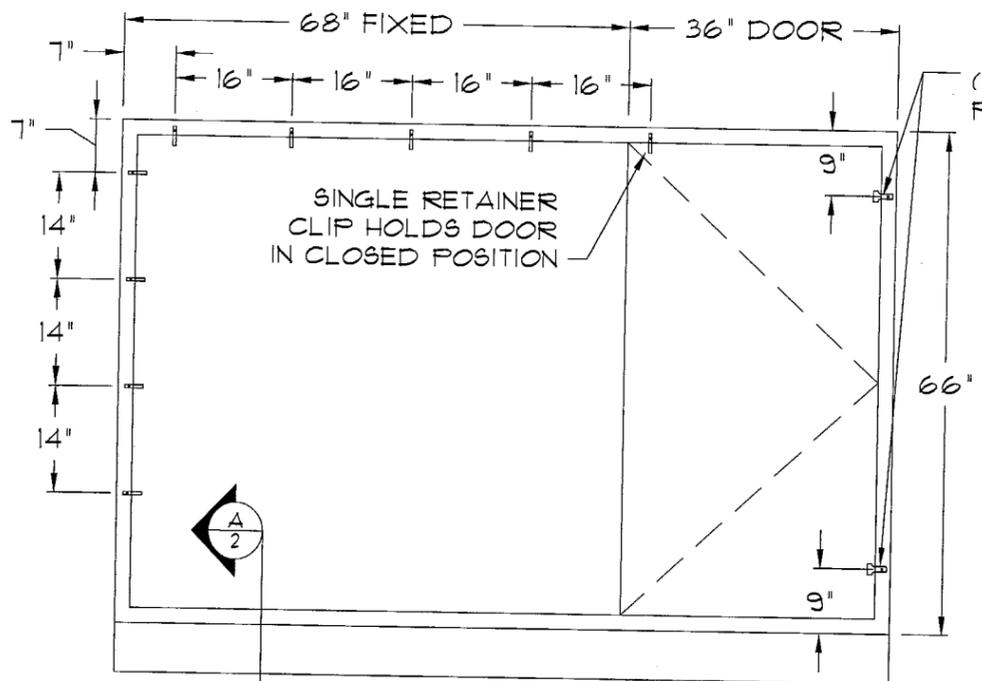
SCALE: N.T.S.
DRAWN BY: CL
CHECKED BY: FLB
PRINT DATE: 4/9/2004
JOB #: 02-1021-16



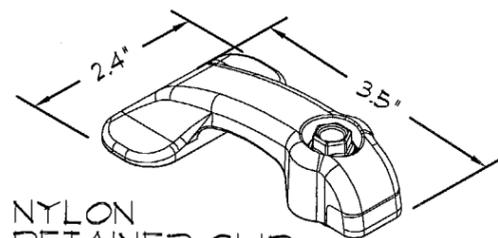
FRONT OF UNIT



SIDE OF UNIT (TYPICAL)



REAR OF UNIT

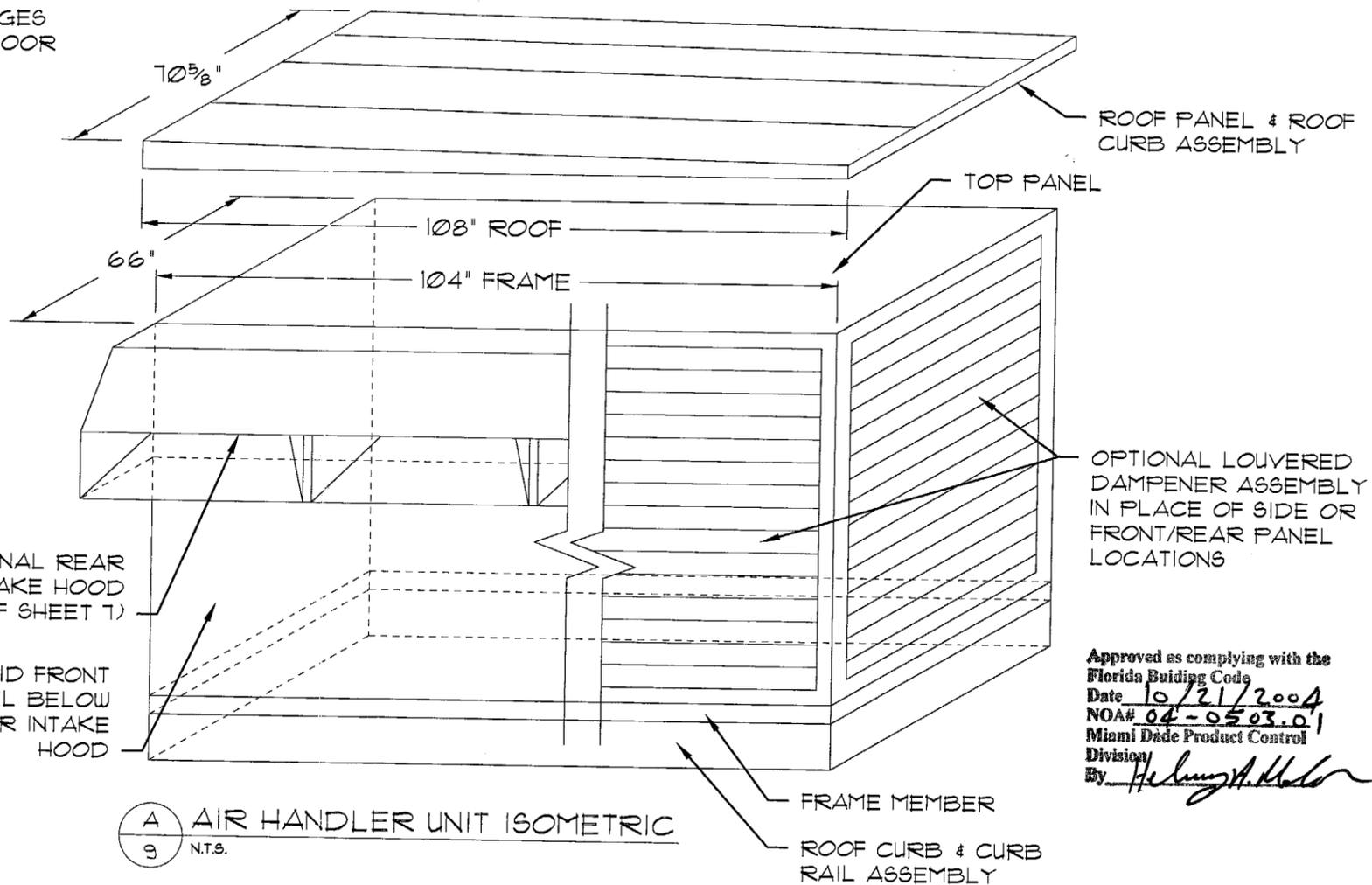


B
9 N.T.S.
NYLON RETAINER CLIP

(2) HINGES PER DOOR

OPTIONAL REAR INTAKE HOOD (REF SHEET 1)

SOLID FRONT PANEL BELOW REAR INTAKE HOOD



A
9 N.T.S.
AIR HANDLER UNIT ISOMETRIC

UNIT NOTES:

1. TOP & BOTTOM INSULATED PANELS SHOWN ABOVE ARE 'STANDARD' PANELS. FRONT, REAR, & SIDE INSULATED PANELS ARE 'REMOVABLE' PANELS. INSULATED DOOR PANEL SHOWN IS A 'MULLION' PANEL. ALL PANELS SHALL BE AS DEPICTED, RESPECTIVELY, ON SHEET 5.
2. 'REMOVABLE' INSULATED PANELS SHALL BE SECURED TO UNIT FRAME MEMBERS WITH INJECTION-MOLDED NYLON RETAINERS, SPACED AS SHOWN.
3. EACH RETAINER IS FASTENED TO FRAME MEMBER USING (1) 1/4" SELF-TAPPING METAL SCREW.
4. FRONT, REAR, & SIDE PANELS MAY BE REPLACED WITH A DAMPENER ASSEMBLY & LOUVERED COVER AS SHOWN ON SHEET 1. LOUVERED COVER SHALL BE BY AMERICAN WARMING & VENTILATION, Inc. PER MIAMI-DADE NOA #03-043003.
5. DOOR MAY BE INSTALLED TO FRONT, REAR, &/OR SIDE OF UNIT.

AUG 03 2004

FRANK L. BERNARDO, P.E.
PE0046549

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