



BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/building

W. A. Brown & Son, Inc.
209 Long Meadow Drive
Salisbury, NC 28147

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 Section 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 Section (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 Section 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: Walk-In Cooler / Freezer

APPROVAL DOCUMENT: Drawing No. WAB-10-01, titled "Walk-In Cooler / Freezer", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated September 30, 2010, signed and sealed by J. W. Knezevich, P.E., on December 07, 2010, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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 **revises & renews** NOA # **05-1103.01** and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
03/03/2011

NOA No 10-1213.01
Expiration Date: 03/03/2016
Approval Date: 03/03/2011
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0410.05

A. DRAWINGS

1. *Drawing No. 04-075, titled " Walk-In Cooler / Freezer ", sheets 1 through 5 of 5, prepared by Thornton Tomasetti Group, signed and sealed by John W. Knezevich, P.E., dated February 22, 2005, last revision #1 dated April 27, 2005.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Load Test and Uniform Static air Pressure Test, Axial Load Test, and Racking load Test on Metal Sheathed Urethane Foam Filled Modular Panel Walk-in Coolers / Freezers, prepared by Construction Testing Corporation, Report No.04-019, dated December 17, 2004, signed and sealed by Yamil G. Kuri, P.E.*

C. CALCULATIONS

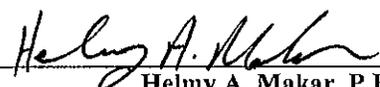
1. *Calculation titled "Walk-in Cooler / Freezer", dated March 01, 2005, pages 1 through 10 of 10, prepared by Thornton Tomasetti Group, signed and sealed by John W. Knezevich, P.E.*
2. *Revised calculation titled "Walk-in Cooler / Freezer", dated April 27, 2005, 6 pages, prepared by Thornton Tomasetti Group, signed and sealed by John W. Knezevich, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Mill Certified Test Report issued by GalvTech, dated 12/19/2002, with the Chemical analysis and Mechanical Properties for (0.025") G-60 Steel conforming to ASTM A-653.*
2. *Mill Certified Test Report issued by Alcoa Mill Products, dated 12/16/2002, with the Chemical composition and Mechanical Properties for 0.030" thick 3105-H154 Aluminum Alloy.*
3. *Tensile Test Report No. CTL #1239, prepared by Certified Testing Laboratories, dated 12/17/2004, signed and sealed by Ramesh Patel, P.E.*
4. *Tensile Test Report No. CTL #1237, prepared by Certified Testing Laboratories, dated 12/17/2004, signed and sealed by Ramesh Patel, P.E.*



Helmy A. Makar, P.E., M.S.
BNC, Product Control Unit Supervisor
NOA No 10-1213.01
Expiration Date: 03/03/2016
Approval Date: 03/03/2011

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-1103.01

A. DRAWINGS

1. *Drawing No. 04-075, titled "Walk-In Cooler / Freezer", sheets 1 through 5 of 5, prepared by Thornton Tomasetti Group, signed and sealed by John W. Knezevich, P.E., dated February 22, 2005, last revision #2 dated August 29, 2005.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. WAB-10-01, titled "Walk-In Cooler / Freezer", sheets 1 through 5 of 5, prepared by Knezevich Consulting, LLC, dated September 30, 2010, signed and sealed by J. W. Knezevich, P.E., on December 07, 2010.*

B. TESTS

1. *None.*

C. CALCULATIONS

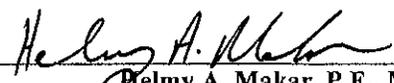
1. *Revised calculation titled "Walk-in Cooler / Freezer", dated September 30, 2010, 22 pages, prepared by Knezevich Consulting, LLC, signed and sealed by John W. Knezevich, P.E., on December 07, 2010.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building and Neighborhood Compliance Department.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Delmy A. Makar, P.E., M.S.
BNC, Product Control Unit Supervisor

NOA No 10-1213.01

Expiration Date: 03/03/2016

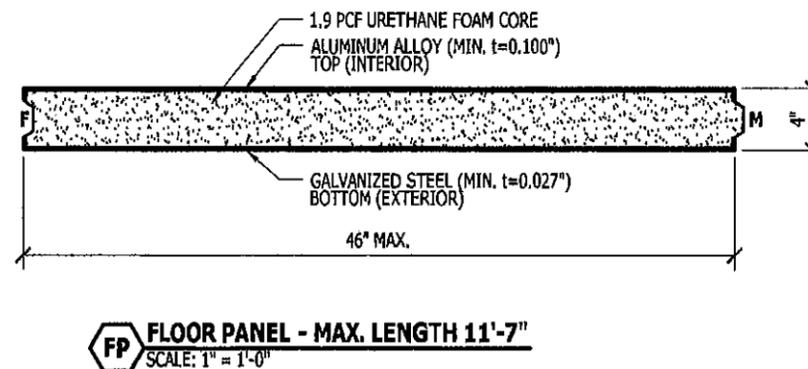
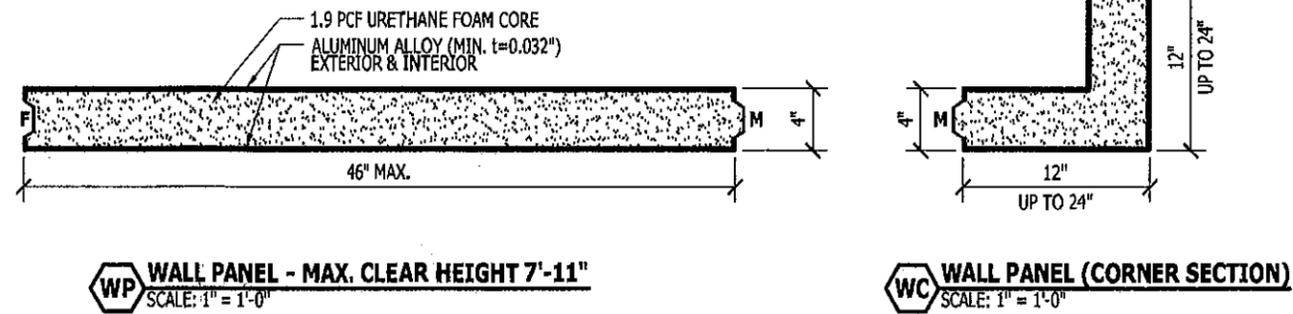
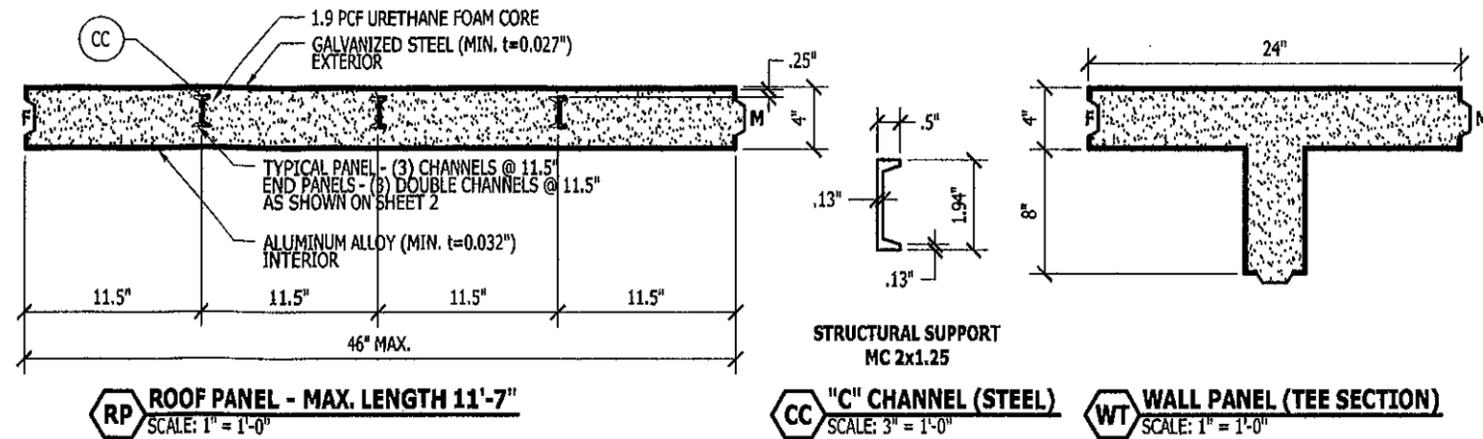
Approval Date: 03/03/2011

GENERAL NOTES:

- THESE STRUCTURAL PRODUCT EVALUATION DOCUMENTS REPRESENT A WALK-IN COOLER/FREEZER SYSTEM ANALYZED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2007 EDITION.
- THESE DOCUMENTS ARE NOT APPLICABLE IN THE HIGH VELOCITY HURRICANE ZONE..
- DESIGN LOADS:
 - ROOF:**
 - DEAD LOAD: PANEL TYPE RP 3.50 PSF
 - LIVE LOAD: 30.00 PSF
 - MAXIMUM WEIGHT OF MECHANICAL EQUIPMENT IS 330 POUNDS PER CONDENSING UNIT. SPACE UNITS AT LEAST 4'-0" O.C.
 - WALLS:**
 - DEAD LOAD: PANEL TYPE WP 2.60 PSF
 - FLOOR:**
 - DEAD LOAD: FLOOR PANEL 5.00 PSF
 - LIVE LOAD: INSULATED FLOOR 250.00 PSF
"FLOORLESS" 250.00 PSF
 - WIND LOADS SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7-05 BASED ON THE SITE SPECIFIC CONDITIONS. SEE TABLE 3 ON SHEET 2 FOR ALLOWABLE WIND LOADS USED IN THE DESIGN OF THESE DOCUMENTS.
- THESE PRODUCT EVALUATION DOCUMENTS ARE GENERIC. THEY ADDRESS THE STRUCTURAL AND MATERIAL PROPERTIES, BUT DO NOT INCLUDE INFORMATION FOR SITE SPECIFIC APPLICATIONS OF THIS WALK-IN COOLER/FREEZER SYSTEM.
- THESE PRODUCT EVALUATION DOCUMENTS SHALL NOT BE APPLIED BY THE CONTRACTOR, ON A SPECIFIC SITE WITHOUT THE INVOLVEMENT OF AN ARCHITECT OR ENGINEER OF RECORD.
 - THE ARCHITECT/ENGINEER OF RECORD SHALL VERIFY THE SITE SPECIFIC WIND LOAD REQUIREMENTS ARE WITHIN THE CRITERIA USED TO DEVELOP THESE DOCUMENTS.
 - THE ARCHITECT/ENGINEER OF RECORD SHALL VERIFY THE FOUNDATION DESIGN IS ADEQUATE TO RESIST THE FOUNDATION LOADS IDENTIFIED IN TABLE 1.
- THESE PRODUCT EVALUATION DOCUMENTS COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- ANY MODIFICATIONS OR ADDITIONS TO THESE PRODUCT EVALUATION DOCUMENTS WILL VOID THE PRODUCT EVALUATION DOCUMENTS.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE PRODUCT EVALUATION DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT THE FOLLOWING OPTION:
 - REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.
- ALL BOLTS AND SCREWS SHALL BE 2024-T4 ALUMINUM ALLOY, ELECTRO-GALVANIZED STEEL, HOT DIPPED GALVANIZED STEEL OR 300 SERIES STAINLESS STEEL WITH A MIN. TENSILE STRENGTH OF 60 KSI.
- ALL CONCRETE ANCHORS SHALL BE AS SPECIFIED ON THE DRAWINGS. EMBEDMENT LENGTHS NOTED ON THE DRAWINGS SHALL NOT INCLUDE FINISH MATERIAL.
- DISSIMILAR METALS IN CONTACT WITH EACH OTHER SHALL BE PROTECTED IN ACCORDANCE WITH THE FBC CHAPTER 20, SECTION 2003.8.4.
- AN ALLOWABLE STRESS INCREASE IS NOT USED IN THE DESIGN OF THE COOLER/ FREEZER UNIT NOR ITS ATTACHMENTS.

RIGID URETHANE FOAM SANDWICH PANEL SPECIFICATIONS

- WALL & ROOF COMPOSITE SANDWICH PANELS ARE COMPRISED OF ALUMINUM OR STEEL FACINGS WITH Poured URETHANE PLASTIC CORES. THICKNESS AND MATERIAL OF FACINGS SHALL BE AS SHOWN ON THE DRAWINGS.
- ALUMINUM FACINGS SHALL BE 3003-H14 ALLOY WITH MIN. $F_y = 23.2$ KSI FOR INTERIOR AND EXTERIOR USE.
- STEEL FACINGS USED ON WALL PANELS SHALL COMPLY WITH ASTM A 653 CQ WITH A MIN. $F_y = 31.0$ ksi, MIN. THICKNESS OF 0.0235" AND G90 COATING.
- MINIMUM DENSITY OF URETHANE PANEL CORE SHALL BE 2.0 P.C.F.
- URETHANE FOAM CORE SHALL HAVE A FLAME SPREAD RATING OF NOT MORE THAN 75 AND SHALL HAVE A SMOKE-DEVELOPED RATING OF NOT MORE THAN 450 IN ACCORDANCE WITH F.B.C. 2603.3.
- METAL SKIN SHALL BE ADHERED TO FOAM WITH HELMITEN ADHESIVE 4012 RD AIR SPRAYED ONTO METAL SKINS AT A RATE OF 0.117 OUNCES PER SQUARE FOOT.
- FOR SPECIFIC REQUIREMENTS OF WALK-IN COOLERS SEE F.B.C. 2603.4.1.2 AND 2603.4.1.3.



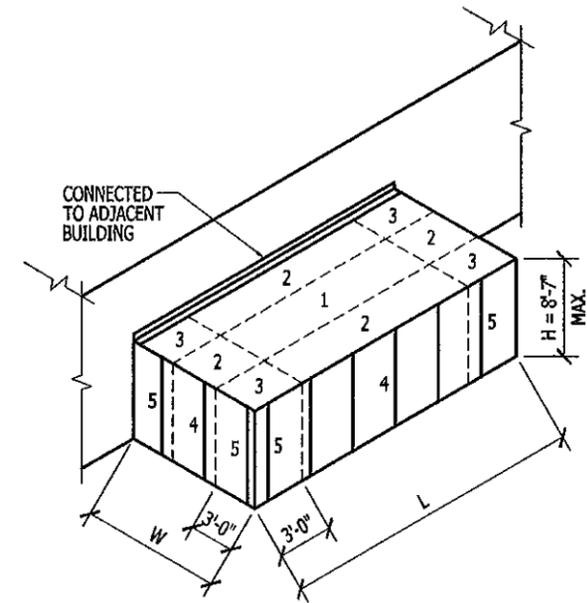
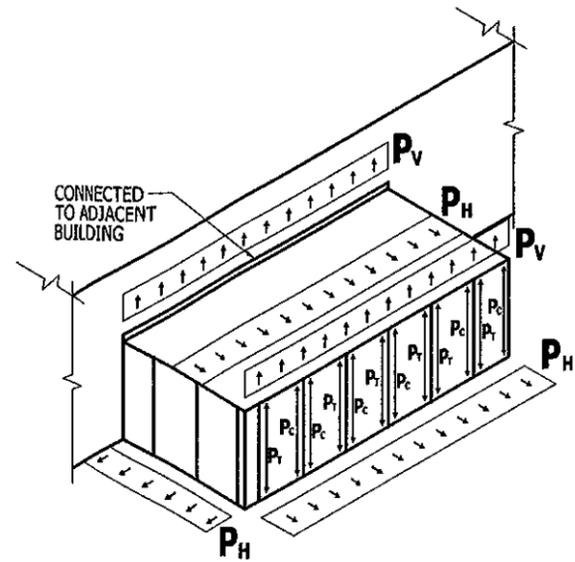
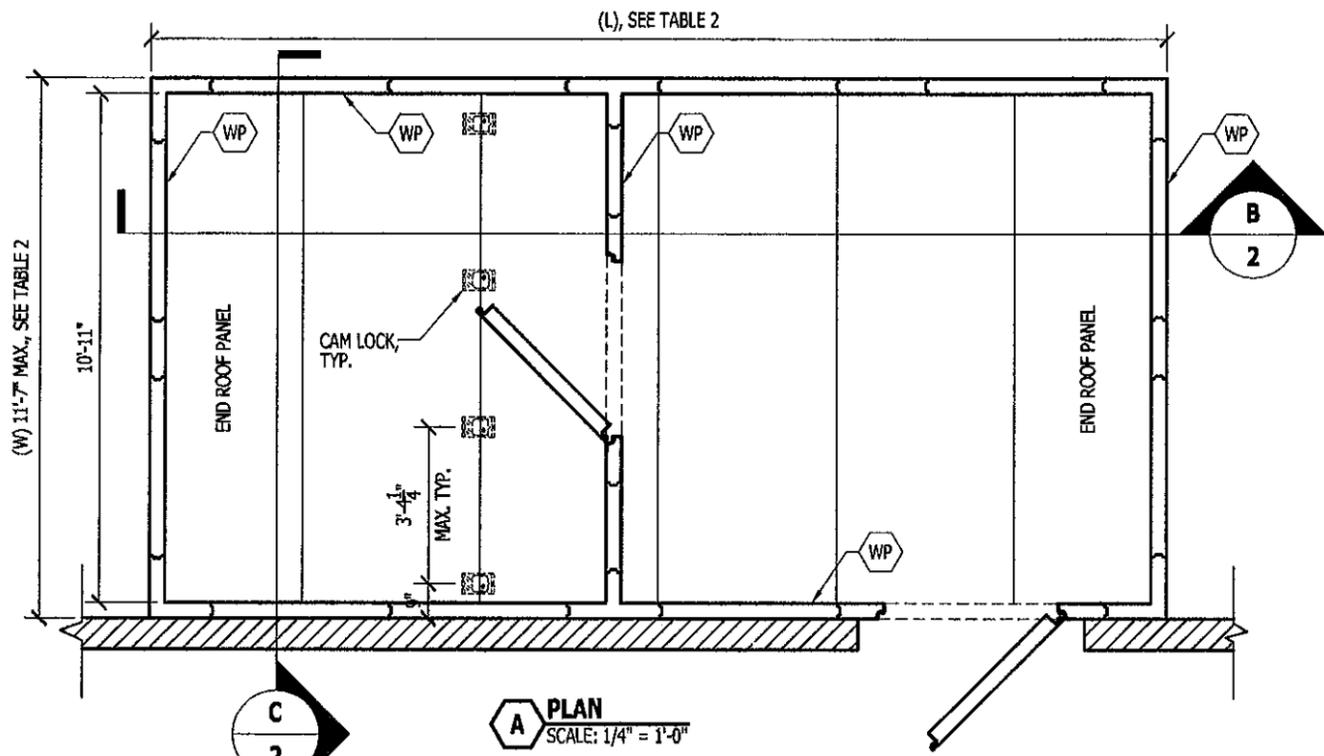
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 10-1213.01
Expiration Date 03/03/2016
By *[Signature]*
Miami Dade Product Control

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BROWN
SALISBURY, NC

revisions	description	no	date	by

J.W. Knezevich
Professional Engineer
FL License No.: PE 41961
[Signature]
12/7/10
drawn by ARV scale AS NOTED
date 09/30/2010
drawing no. **WAB-10-01**
sheet 1 of 5



(SEE TABLE 2 FOR WIDTH/LENGTH LIMITATION)

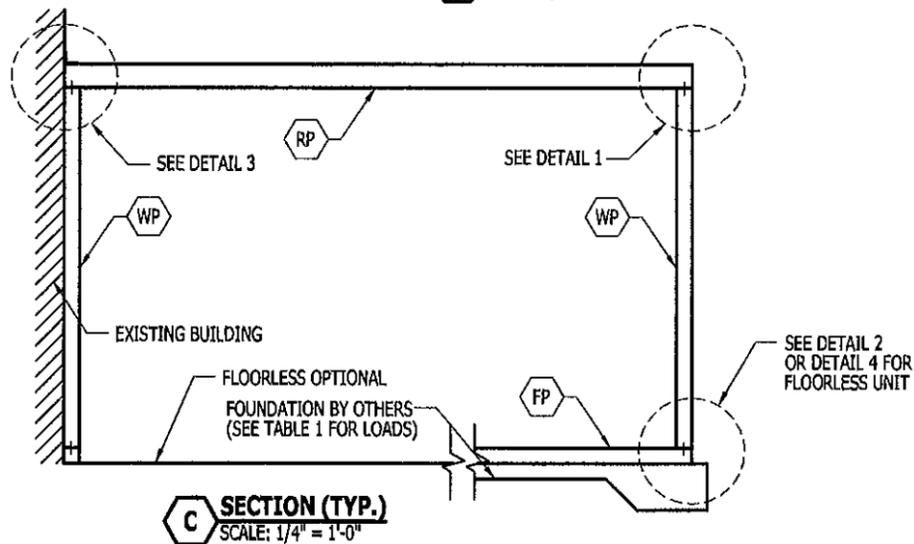
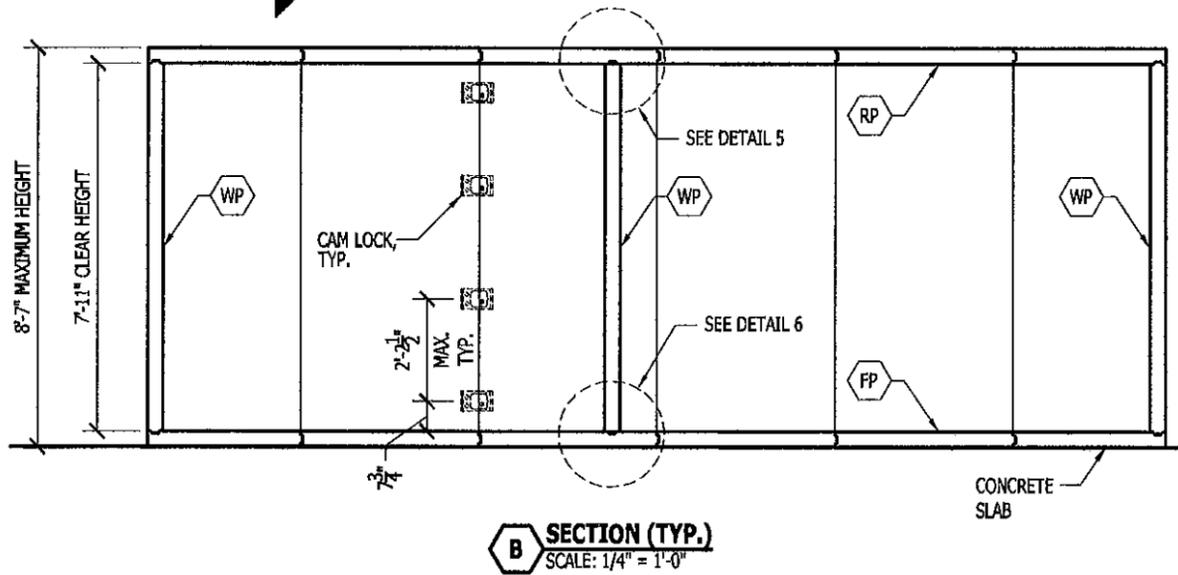


TABLE 1	
FOUNDATION LOAD DESIGNATION	NET WIND FORCES
	ROOF PANEL (MAXIMUM SPAN 11'-7")
P_V	-285 # / FT
P_H	± 200 # / FT
P_T, P_C	± 795 # / FT

TABLE 2	
UNIT WIDTH (W) FT - IN	MINIMUM NUMBER OF 46" PANELS ON EXTERIOR FRONT WALL
LESS THAN OR EQUAL TO 7'-0"	4
GREATER THAN 7'-0" UP TO 9'-0"	5
GREATER THAN 9'-0" UP TO 10'-9"	6
GREATER THAN 10'-9" UP TO 11'-7"	7

TABLE 3					
ALLOWABLE WIND LOADS (PSF)					
ZONES	ROOF			WALL	
	1	2	3	4	5
NEGATIVE	-43.8	-59.6	-72.8	-42.9	-50.4
POSITIVE	+16.3			+39.4	

TABLE 1 NOTES:

- NET WIND FORCES REPRESENT THE REACTIONS FROM WORKING STRESS WIND LOADS ASSUMING MAXIMUM ROOF PANEL SPANS AND MAXIMUM WALL PANEL HEIGHTS.
- P_V REPRESENTS THE VERTICAL WIND REACTION.
- P_H REPRESENTS THE HORIZONTAL WIND REACTION.
- P_T AND P_C REPRESENT THE OVERTURNING MOMENT OCCURRING IN THE FRONT WALL PANELS. THESE FORCES OCCUR AT EACH PANEL ASSUMED AS A 2'-0" COUPLE, WITH FORCES IN OPPOSITE DIRECTIONS.

TABLE 2 NOTES:

- THIS TABLE SPECIFIES THE MINIMUM NUMBER OF PANELS REQUIRED ON THE FRONT WALL OF THE UNIT TO ESTABLISH THE LATERAL LOAD RESISTANCE NECESSARY FOR A GIVEN ROOF SPAN.

TABLE 3 NOTES:

- ALLOWABLE WIND LOADS SHOWN REPRESENT THE COMPONENT WIND LOADS USED IN THE DESIGN OF THE UNIT. SITE SPECIFIC WIND LOADS DETERMINED IN ACCORDANCE WITH GENERAL NOTES 3.D AND 5.A SHALL BE LESS THAN OR EQUAL TO THESE LOADS.
- ALLOWABLE WIND LOADS ARE BASED ON A FACTOR OF SAFETY OF 1.5 FOR WALL PANELS AND 2.0 FOR ROOF PANELS IN ACCORDANCE WITH TAS 202 AND THE HVHZ PROVISIONS OF THE FBC.

PRODUCT REVISED as complying with the Florida Building Code
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 By *Helmut A. Hahn*
 Miami Dade Product Control

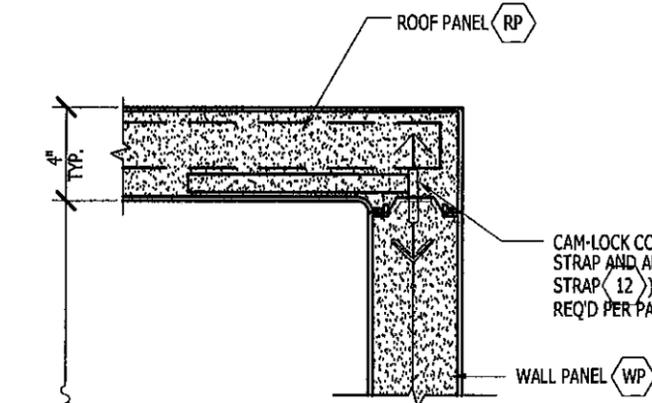
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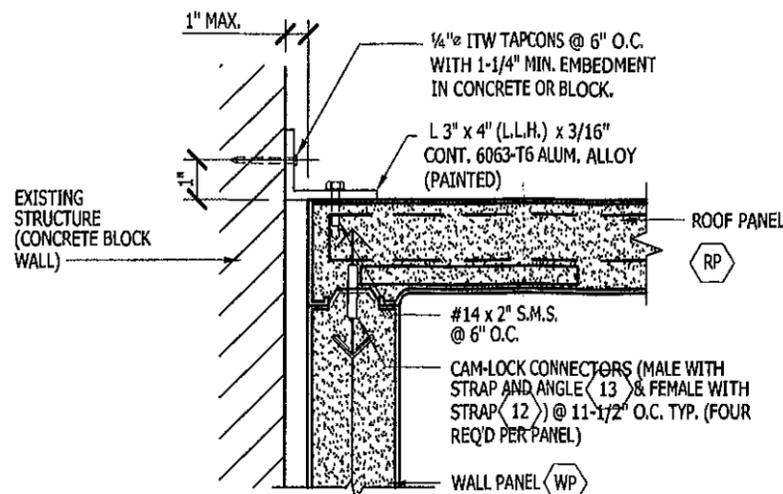
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J.W. Knezevich
 Professional Engineer
 FL License No.: PE 41961

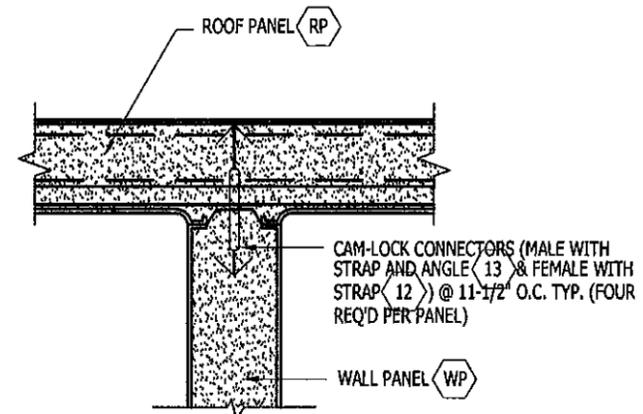
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 date 09/30/2010
 drawing no. WAB-10-01
 sheet 2 of 5



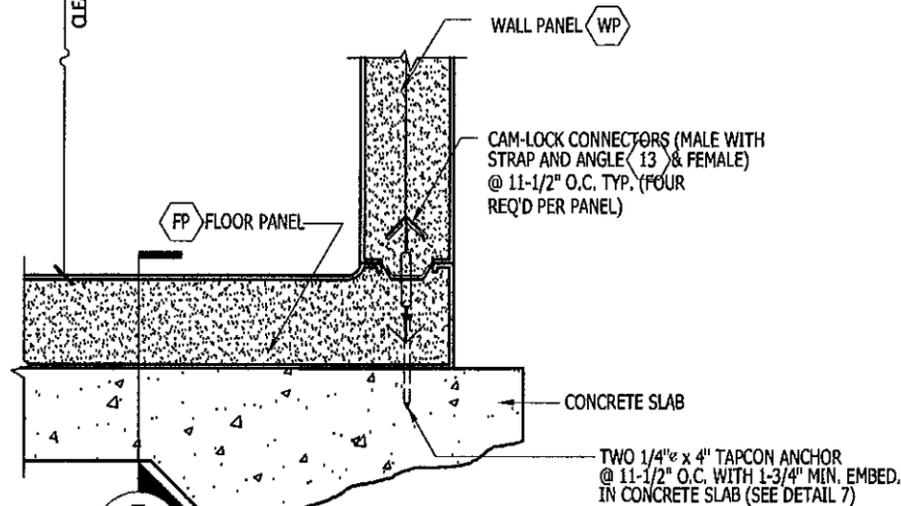
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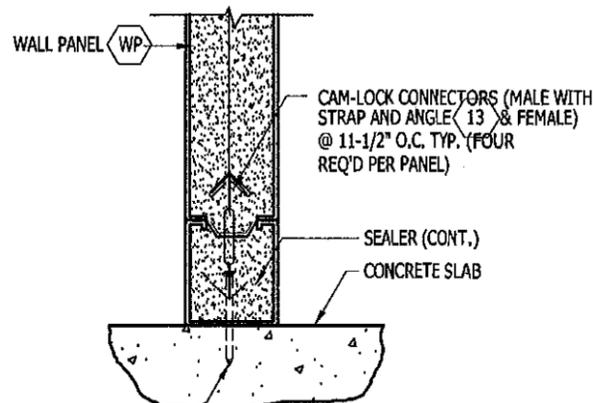
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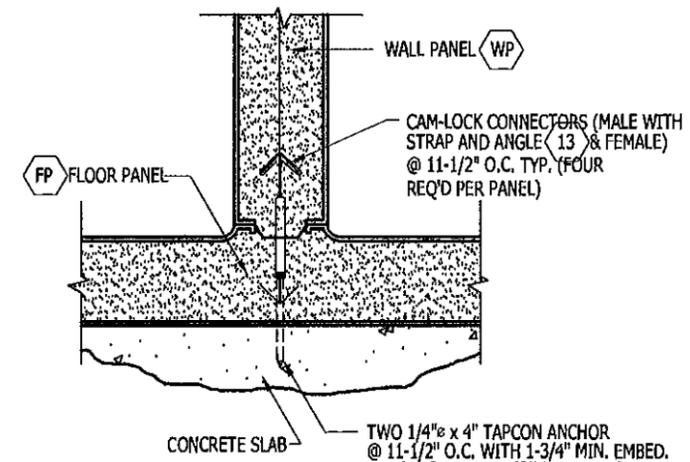
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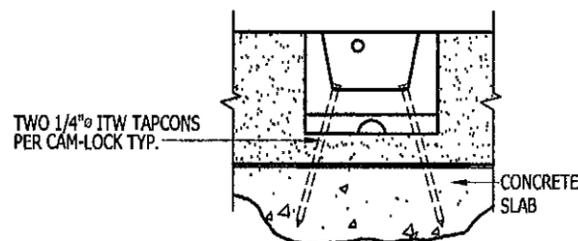
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4 DETAIL 4
SCALE: 1-1/2" = 1'-0"



6 DETAIL 6
SCALE: 1-1/2" = 1'-0"



7 DETAIL 7
SCALE: 1-1/2" = 1'-0"

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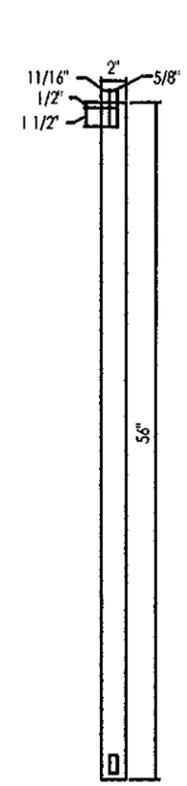
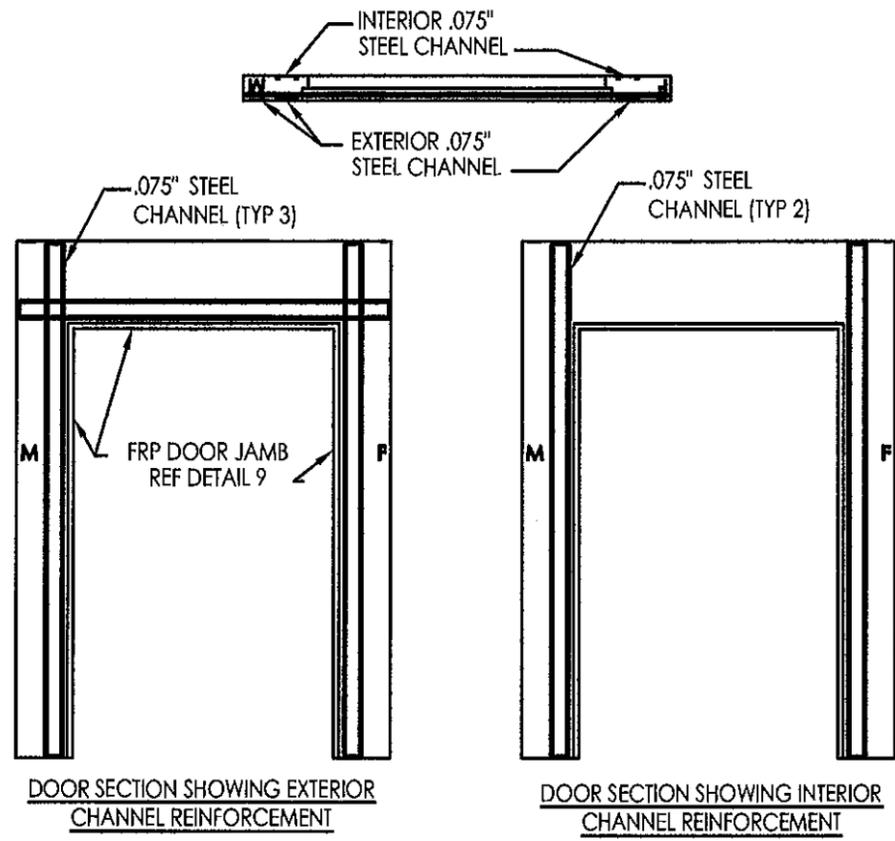
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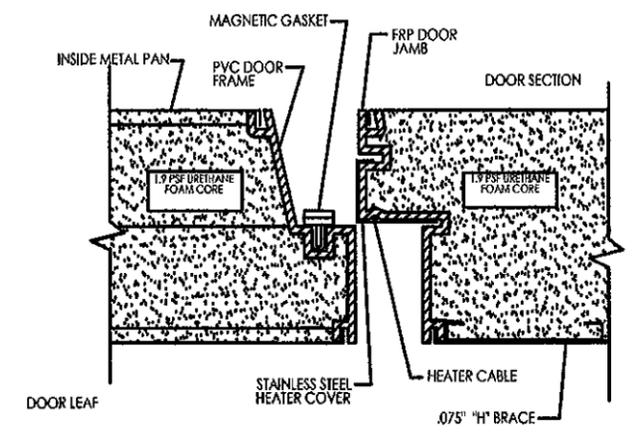
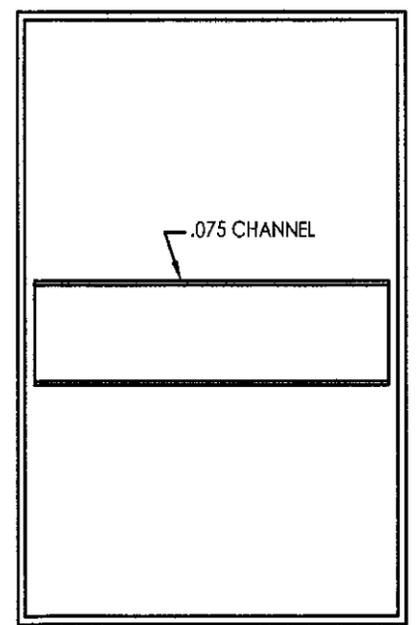
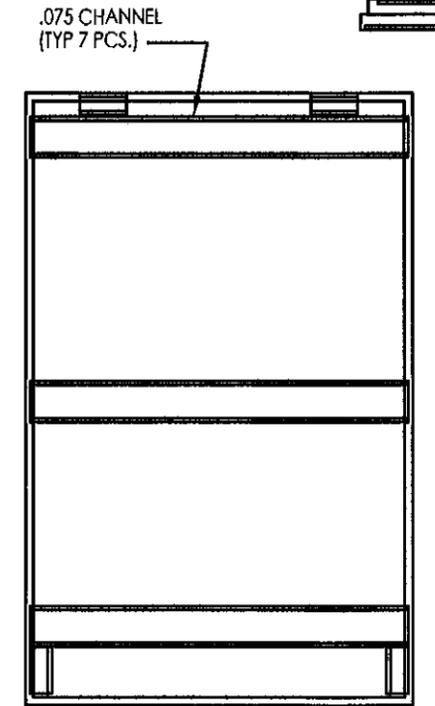
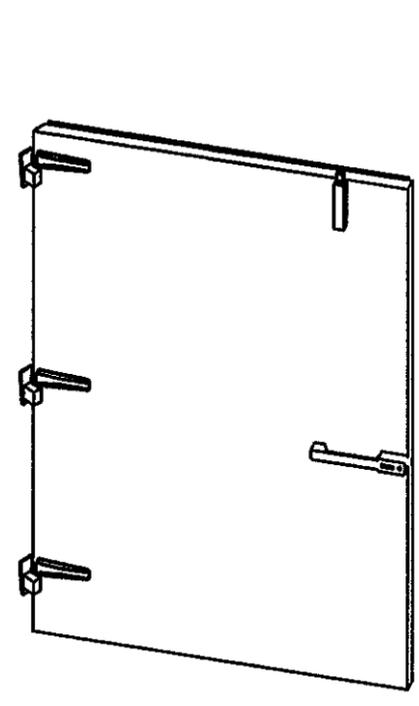
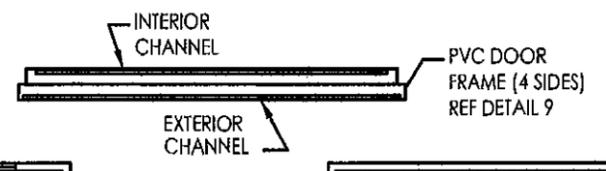
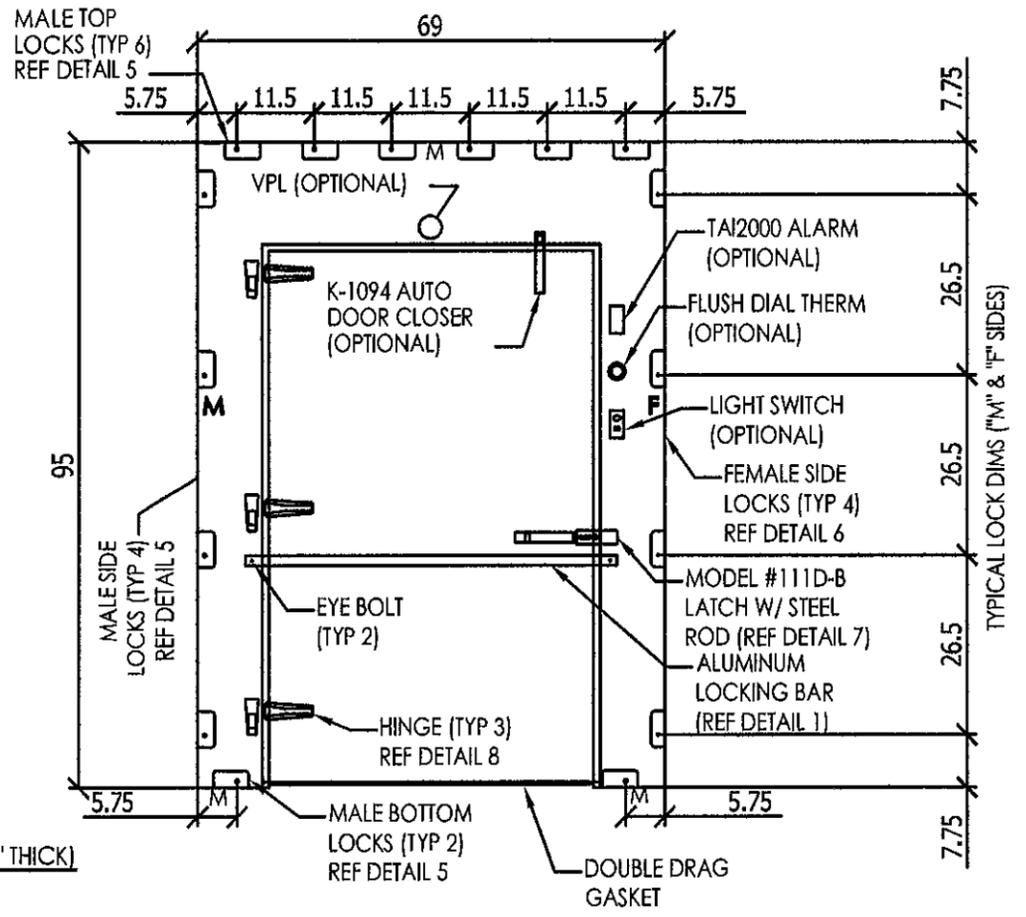
J.W. Knezevich
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FL License No.: PE 41961

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By *Helmut A. Heber*
Miami Dade Product Control

drawn by: ARV
scale: AS NOTED
date: 09/30/2010
drawing no.: **WAB-10-01**
sheet 3 of 5



① LOCKING BAR
 MAIL: 6061-16511 (1/4" THICK)
 N.T.S.



⑨ CROSS SECTION SHOWING DOOR JAMB & DOOR LEAF
 N.T.S.

PRODUCT REVISED as complying with the Florida Building Code
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 By *Heather A. Hester*
 Miami Dade Product Control

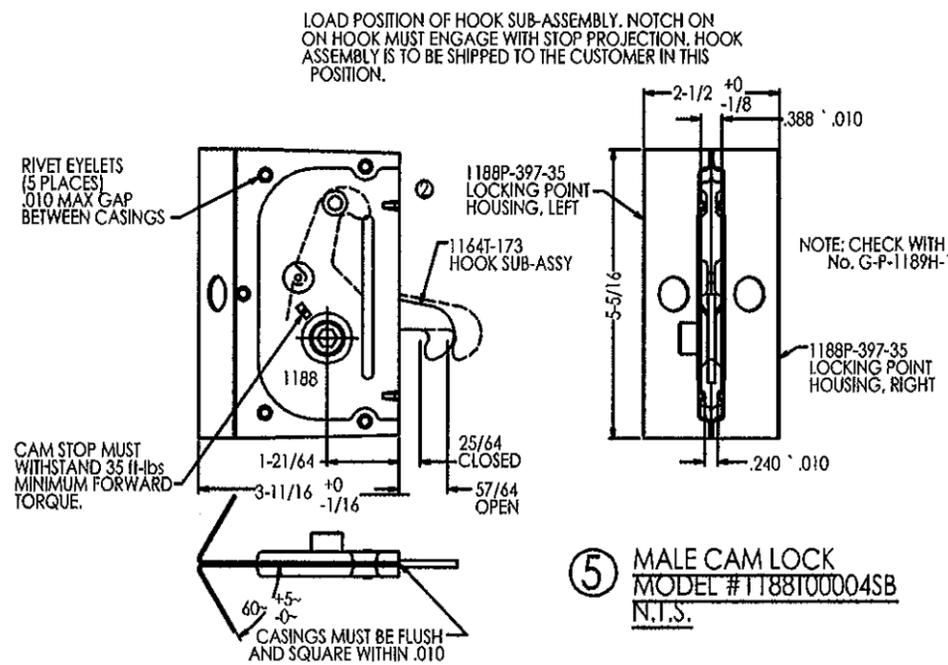
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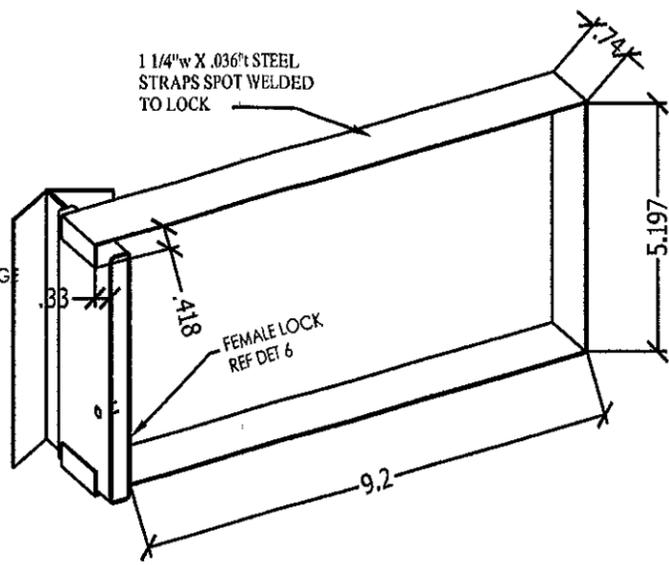
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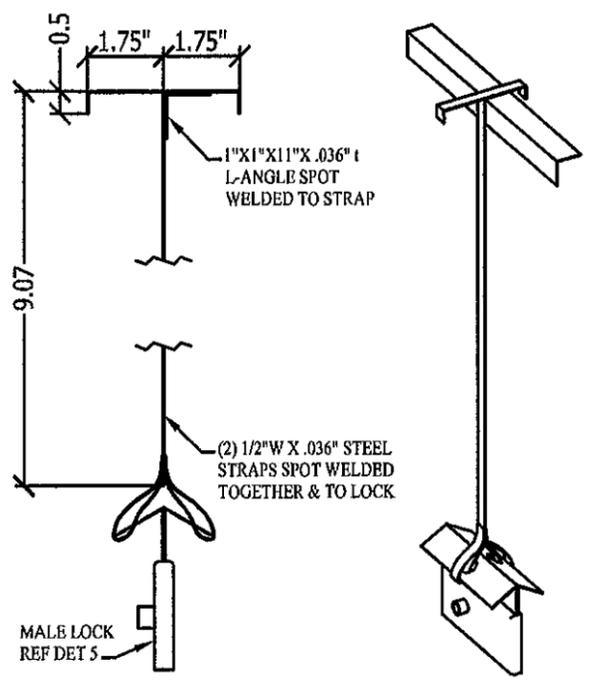
drawn by *ARV* scale AS NOTED
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 drawing no. **WAB-10-01**
 sheet 4 of 5



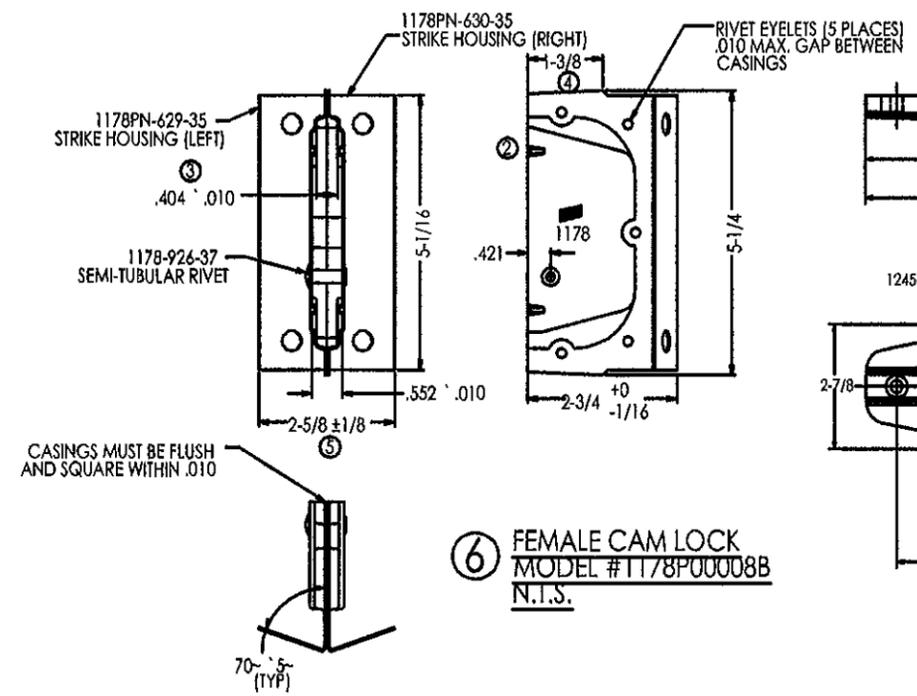
⑤ MALE CAM LOCK
MODEL #T188T00004SB
N.T.S.



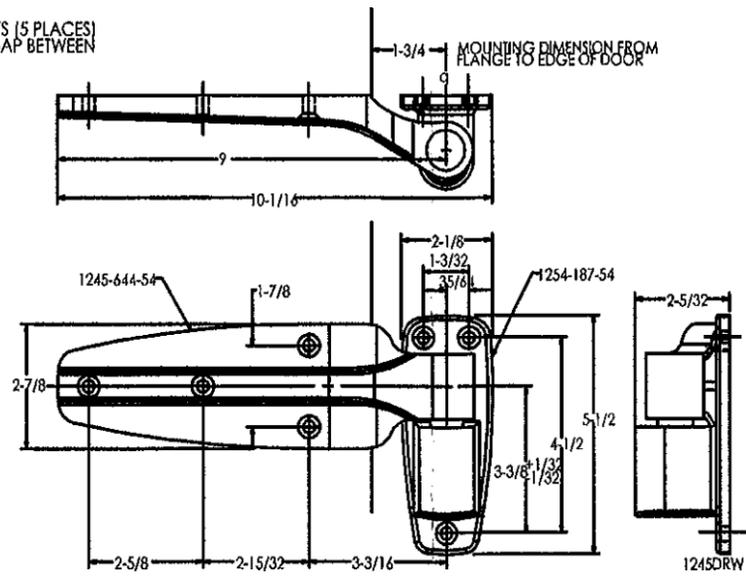
⑫ FEMALE STRIKE W/ STRAP



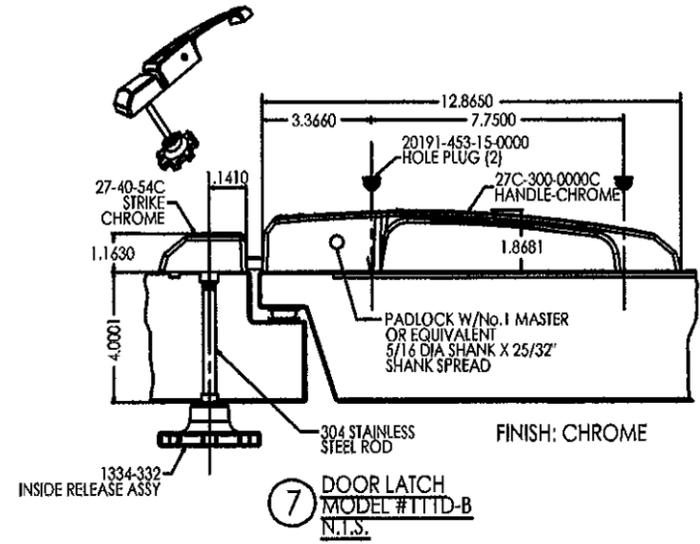
⑬ MALE LOCK W/ STRAP & ANGLE



⑥ FEMALE CAM LOCK
MODEL #T178P00008B
N.T.S.



⑧ DOOR HINGE
MODEL #T245
N.T.S.



⑦ DOOR LATCH
MODEL #TTD-B
N.T.S.

DETAIL SHEET

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 10-1213.01
Expiration Date 03/03/2016
By *Heather H. Knezevich*
Miami Dade Product Control

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Walk-In Cooler / Freezer
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Salisbury, NC 28147
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BROWN
SALISBURY, NC

no	date	by	description

J.W. Knezevich
Professional Engineer
FL License No. PE 41961

12/7/10
drawn by ARV scale AS NOTED
date 09/30/2010
drawing no. **WAB-10-01**
sheet 5 of 5