



MIAMI-DADE COUNTY
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

www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Town & Country Industries
400 West McNab Road
Ft. Lauderdale, Florida 33309

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: 0.050" (min.) Aluminum Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 08-351, titled "0.050" Aluminum Storm Panel", sheets 1 through 6 of 6, prepared by Knezevich Associates Consulting Engineers, dated September 01, 2008, signed and sealed by V.J. Knezevich, P.E. on September 03, 2008 bearing the Miami-Dade County Product Control Renewal stamp with the notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, Miami, FL or Tampa, FL 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 **renews NOA # 09-0114.05** and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

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



Helmy A. Makar
11/04/2010

NOA No. 10-0929.04
Expiration Date: 11/16/2015
Approval Date: 11/04/2010
Page 1

Town & Country Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-0809.03

A. DRAWINGS:

1. *Drawing Number 00-159, titled " 0.050" Aluminum Storm Panel", sheets 1 through 6 of 6, prepared by Knezevich & Associates, dated August 1, 2000, last revision #1 dated October 26, 2000, signed and sealed by V. J. Knezevich, P.E.*

B. TESTS:

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on 0.050" aluminum storm panels, prepared by Construction Testing Corporation, Test Report No. CTC 00-028 dated 06/28/2000, signed and sealed by Christopher G. Tyson, P.E.*

C. CALCULATIONS:

1. *Comparative Analysis and Anchor Analysis, dated 07/12/2000, pages 1 through 56, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.*
2. *Comparative Analysis, dated 10/26/2000, pages 1 through 3, prepared by Knezevich & Associates, Inc., signed by V. J. Knezevich, P.E.*

D. MATERIAL CERTIFICATION:

1. *Mill Certified Inspection Report of coils, for Aluminum Alloy 3004-H34 by Jupiter Aluminum Corp. with physical properties.*
2. *Certified Tensile Test Report by Certified Testing Laboratories, Report No. CTL-592F dated 06/26/2000, for Aluminum Alloy, signed and sealed by Ramsh Patel, P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0421.13

A. DRAWINGS

1. *Drawing No. 03-259, titled " 0.050" Aluminum Storm Panel ", sheets 1 through 6 of 6, prepared by Knezevich & Associates, Inc., dated April 04, 2003, last revision #1 dated September 23, 2003 signed and sealed by V.J. Knezevich, P.E.*

B. TESTS

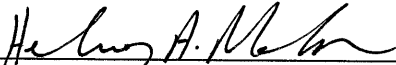
1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSOURANCE

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



Delmy A. Makar, P.E., M.S.

Senior Product Control Examiner

NOA No. 10-0929.04

Expiration Date: 11/16/2015

Approval Date: 11/04/2010

Town & Country Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. *None.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0713.03

A. DRAWINGS

1. *Drawing No. 05-353, titled " 0.050" Aluminum Storm Panel ", sheets 1 through 6 of 6, prepared by Thornton-Tomasetti Group, dated June 29, 2005, last revision #0 dated June 29, 2005 signed and sealed by V.J. Knezevich, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Anchor Analysis, dated June 15, 2005, 39 pages, prepared by Thornton-Tomasetti Group, signed and sealed by V. J. Knezevich, P.E.*

D. QUALITY ASSOURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #09-0114.05

A. DRAWINGS

1. *Drawing No. 08-351, titled " 0.050" Aluminum Storm Panel ", sheets 1 through 6 of 6, prepared by Knezevich Associates Consulting Engineers, dated September 01, 2008, signed and sealed by V.J. Knezevich, P.E., on September 03, 2008.*

B. TESTS

1. *None.*

C. CALCULATIONS

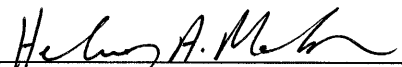
1. *Anchor Analysis, dated September 09, 2008, 19 pages, prepared by Knezevich Associates Consulting Engineers, dated September 01, 2008, signed and sealed by V.J. Knezevich, P.E., on September 03, 2008.*

D. QUALITY ASSOURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Senior Product Control Examiner
NOA No. 10-0929.04
Expiration Date: 11/16/2015
Approval Date: 11/04/2010

Town & Country Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *None.*

B. TESTS

1. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test on 0.050" Aluminum Storm Panels, prepared by Hurricane Test Laboratory, LLC, Test Report No. HTL 0353-0804-10, dated 09/07/2010, signed and sealed by Vinu J. Abraham, P.E.*

C. CALCULATIONS

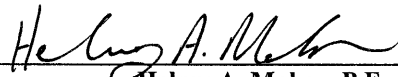
1. *None.*

D. QUALITY ASSOURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*



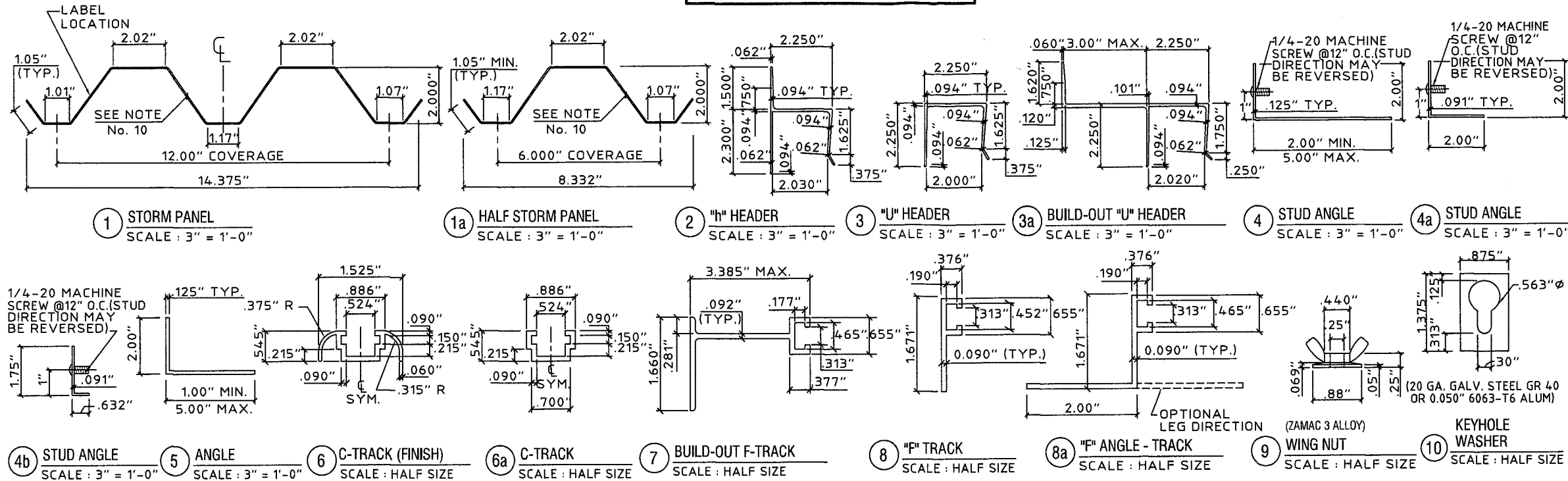
Helmy A. Makar, P.E., M.S.
Senior Product Control Examiner

NOA No. 10-0929.04

Expiration Date: 11/16/2015

Approval Date: 11/04/2010

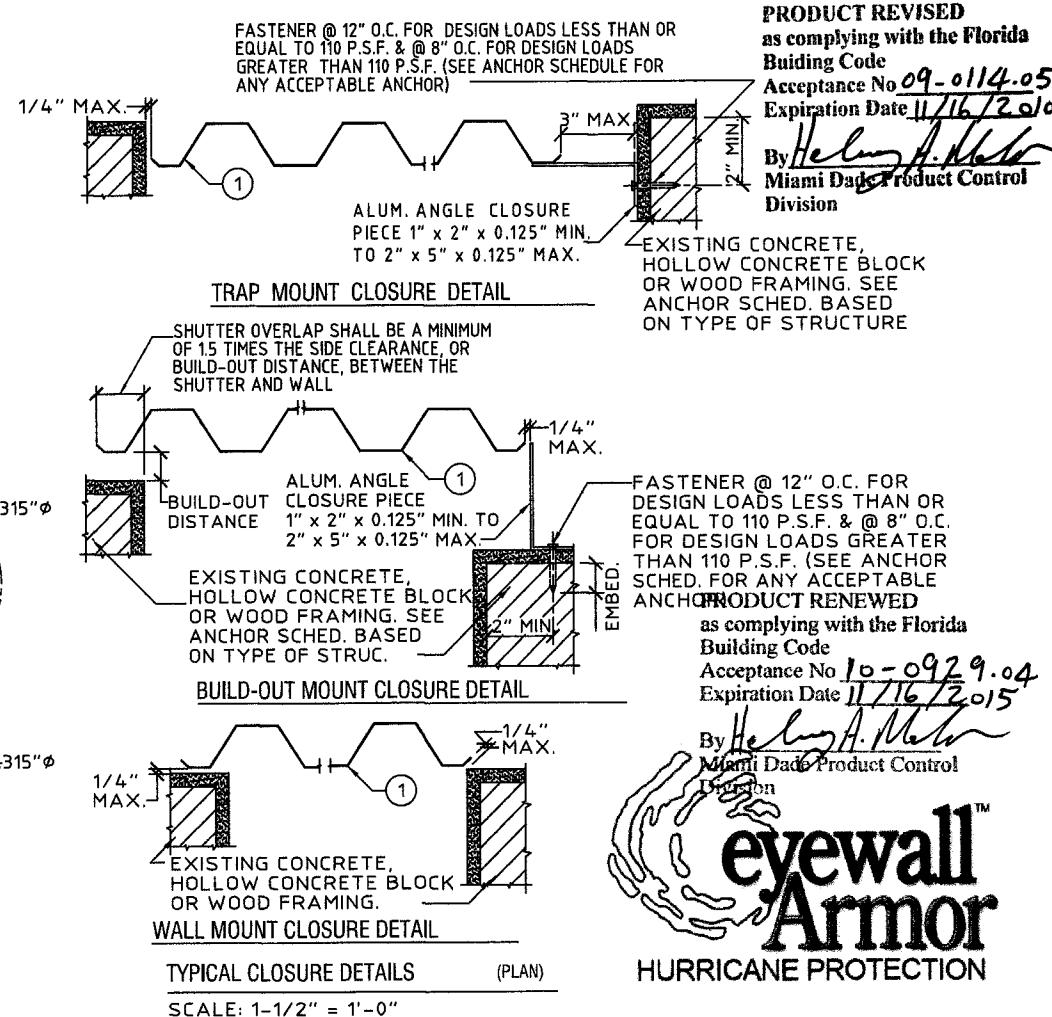
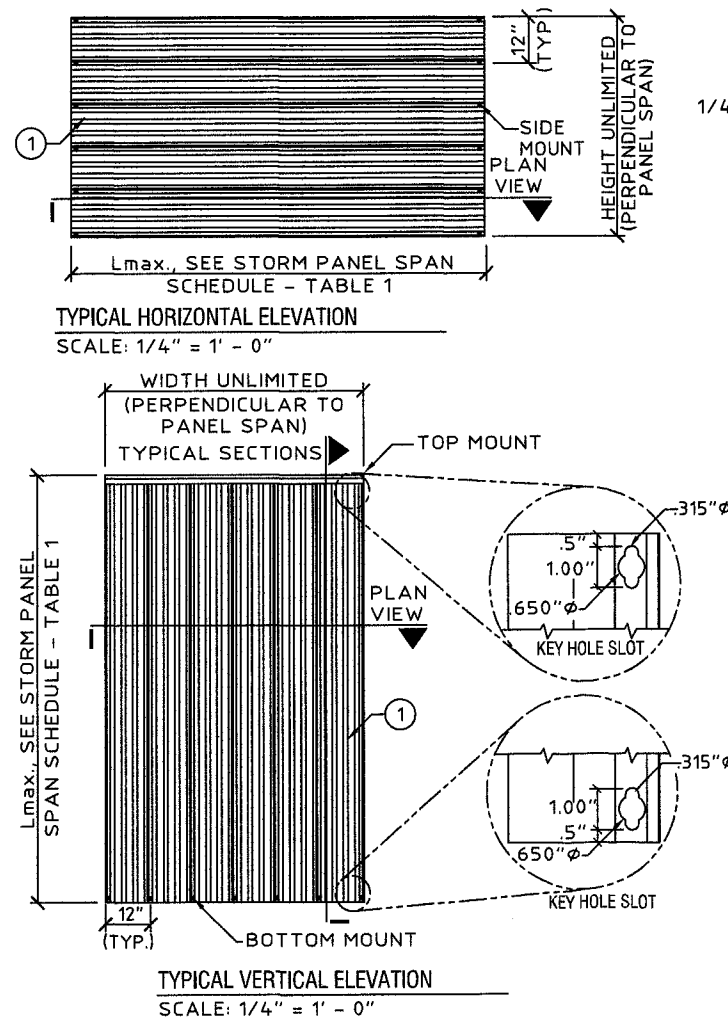
0.050" ALUMINUM STORM PANEL



GENERAL NOTES:

- THESE APPROVAL DOCUMENTS REPRESENT A SHUTTER SYSTEM ANALYZED WITH THE PROVISION SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE FLORIDA BUILDING CODE.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD LAG SCREW DESIGN.
- DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY.
- THESE APPROVAL DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
- USE OF THESE APPROVAL DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- THESE APPROVAL DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
- ANY MODIFICATIONS OR ADDITIONS TO THESE APPROVAL DOCUMENTS WILL VOID THE APPROVAL DOCUMENTS.
- WHEN THE SITE CONDITIONS DEVIATE FROM THESE APPROVAL DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
 - 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.
 - REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION.
- WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
- PRODUCT MARKINGS SHALL BE WITHIN 12" OF ONE END OF THE PANEL WITH A MINIMUM OF ONE MARKING PER PANEL AND SHALL BE PERMANENTLY LABELED AS FOLLOWS:

TOWN & COUNTRY INDUSTRIES,
FT. LAUDERDALE, FL
MIAMI-DADE COUNTY PRODUCT APPROVED
- STORM PANELS SHALL BE 3004-H34 OR 5052-H34 ALUMINUM ALLOY, WITH THE FOLLOWING MINIMUM THICKNESS AND MECHANICAL PROPERTIES: NOMINAL 0.050"
- ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
- ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N.
- TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE, EXCEPT FOR "h" AND "U" HEADER MOUNTING CONDITIONS.



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revisions	description	no	date	by

V.J. Knezevich
Professional Engineer
FL License No.: PE 0010983
FLORIDA CORP NO.: 27989

Sept 3, 2008

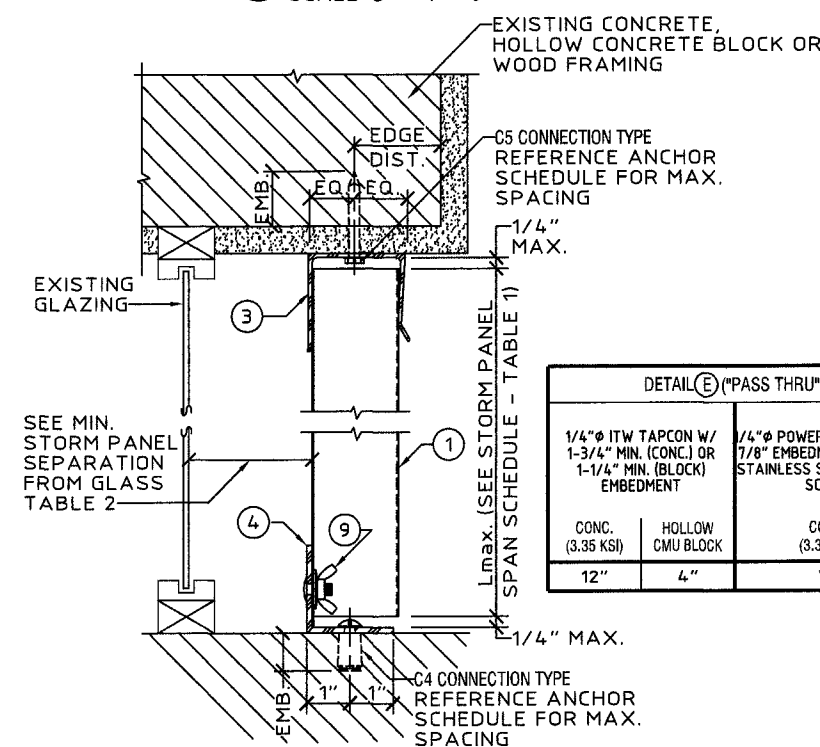
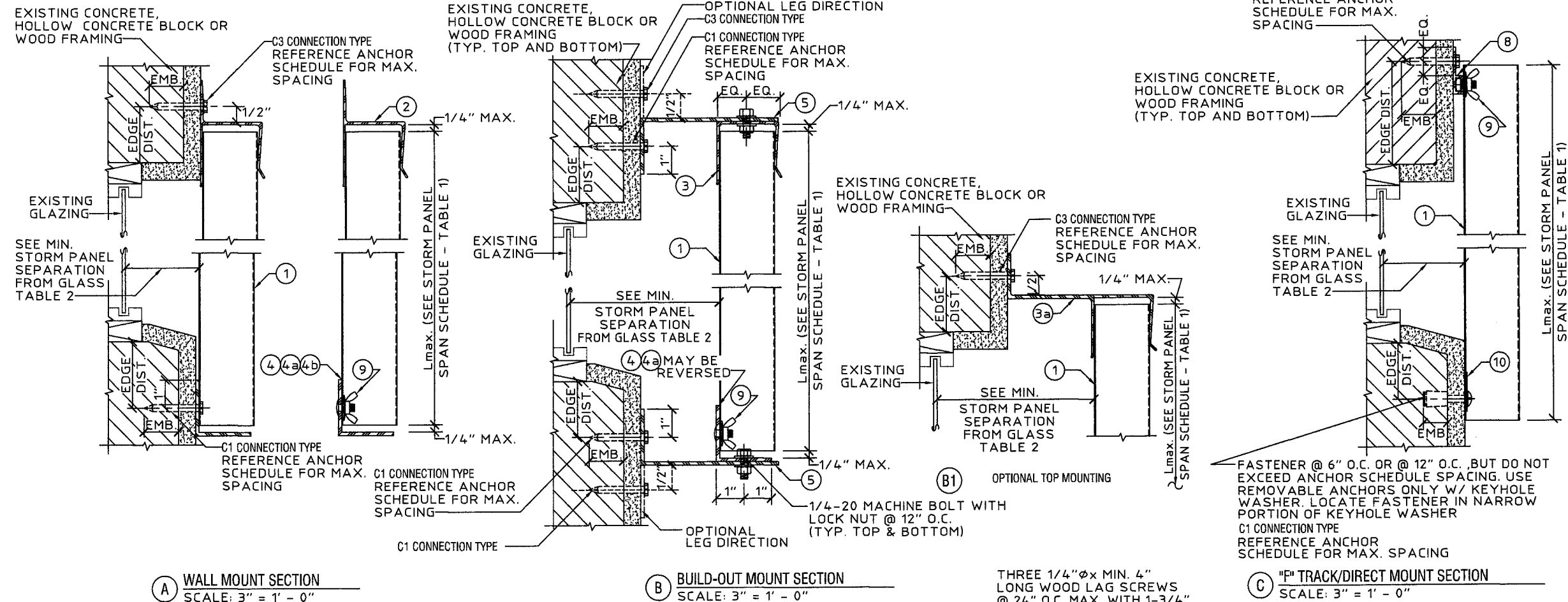
drawn by scale
WBS AS NOTED

date 09/01/2008

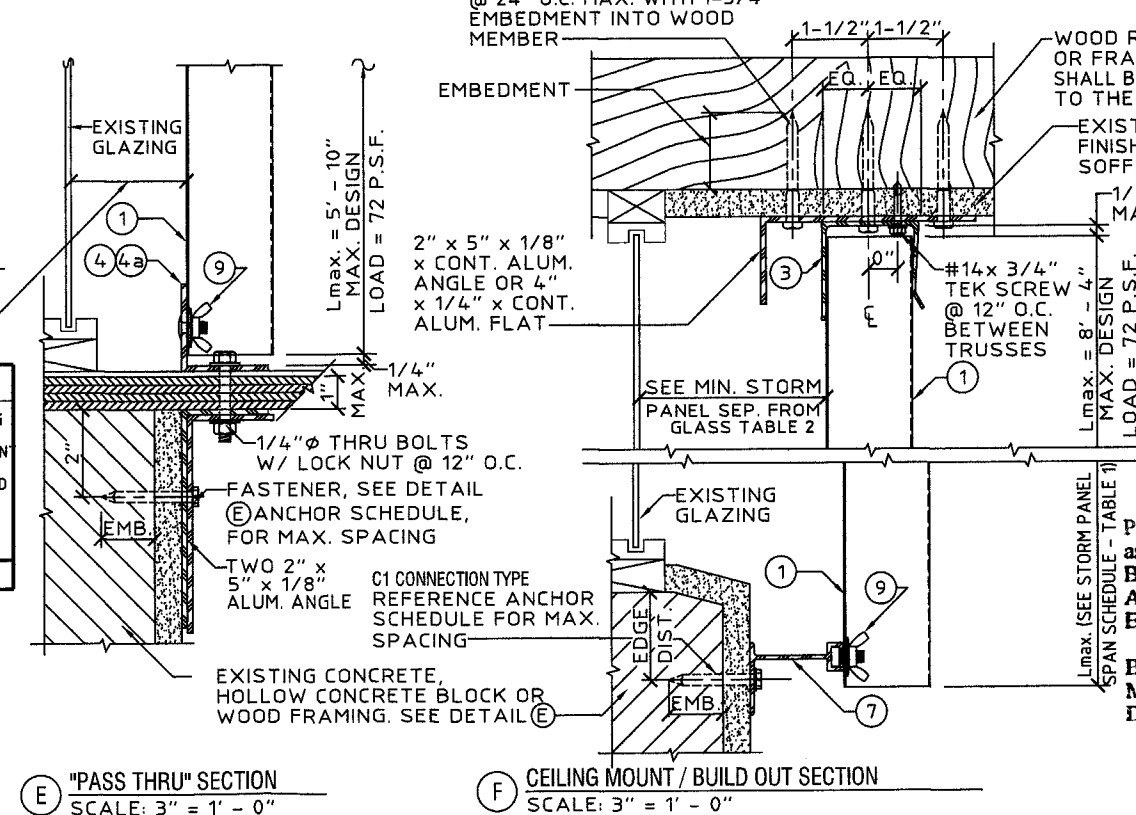
project no.
08-351

PAGE 1 of 6

0.050" ALUMINUM STORM PANEL



DETAIL (E) ("PASS THRU" SEC.) ANCHOR SCHEDULE			
1/4" ITW TAPCON W/ 1-3/4" MIN. (CONC.) OR 1-1/4" MIN. (BLOCK) EMBEDMENT	1/4" POWERS CALK-IN W/ 1/8" EMBEDMENT & 1/4-20 MINIMUM 1-3/4" EMBEDMENT SHEAR PARALLEL OR PERPENDICULAR TO WOOD GRAIN	1/4" x MIN. 2-1/2" LONG WOOD LAG SCREW W/ 1/8" EMBEDMENT	1/4" x MIN. 2-1/2" LONG WOOD LAG SCREW W/ 1/8" EMBEDMENT
CONC. (3.35 KSI)	HOLLOW CMU BLOCK	CONC. (3.35 KSI)	WOOD
12"	4"	7"	12"



PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 09-0114.05
Expiration Date 11/16/2010
By *Helmut A. Mader*
Miami Dade Product Control Division

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 10-0929.04
Expiration Date 11/16/2015
By *Helmut A. Mader*
Miami Dade Product Control Division



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revisions	description	no	date	by

V.J. Knezevich
Professional Engineer
FL License No.: PE 0010983
FLORIDA CODE NO.: 27989

Sept 3 2008

drawn by *AS NOTED*
scale *AS NOTED*
date 05/15/2008
project no. **08-351**

PAGE 2 of 6

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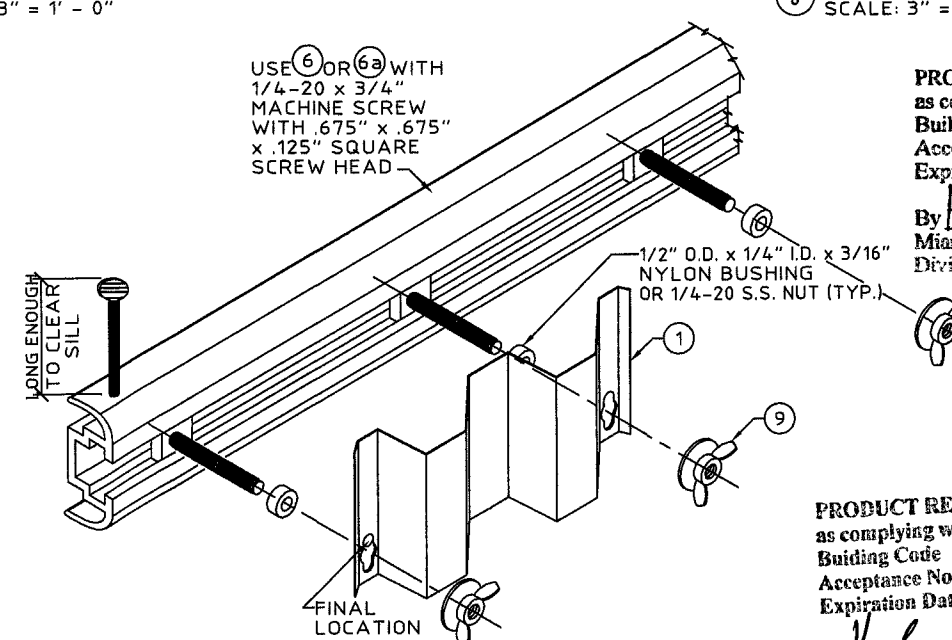
V.J. Knezevich
Professional Engineer
License No.: PE 0010983
FLORIDA COA No.: 127989

drawn by	scale
AS NOTED	

ate 05/15/2008

08-351

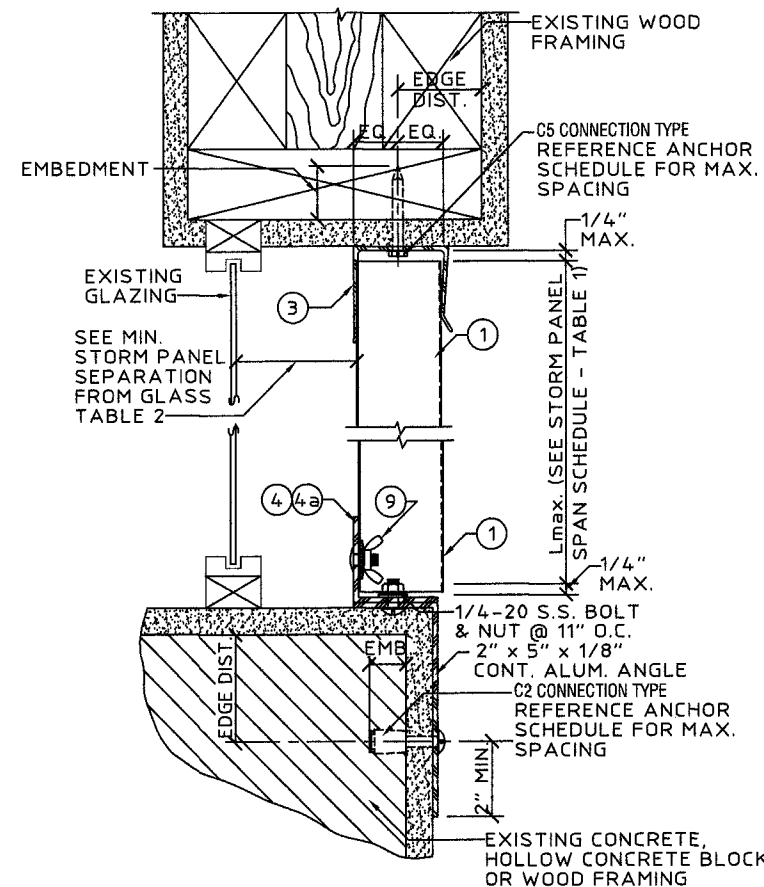
PAGE 3 of 4



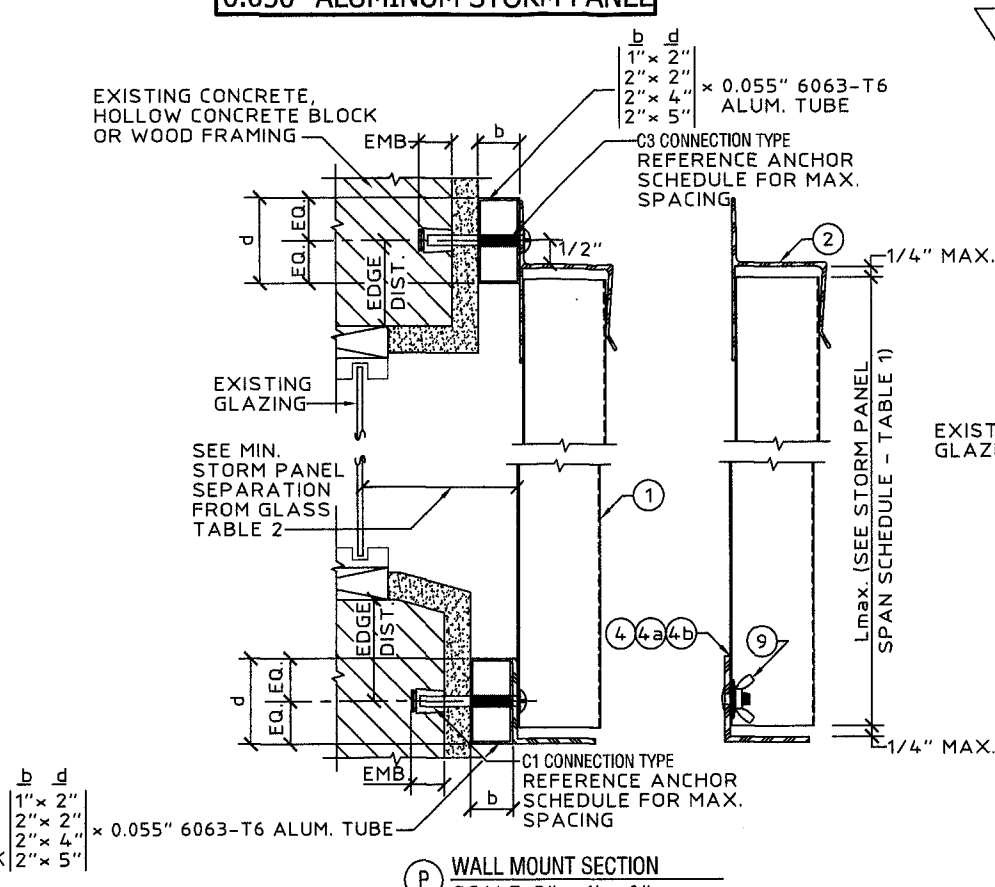
By Heather A. Mc
Miami Dade Product Control
Division

By Helene A. Miller
Miami Dade Product Control
Division

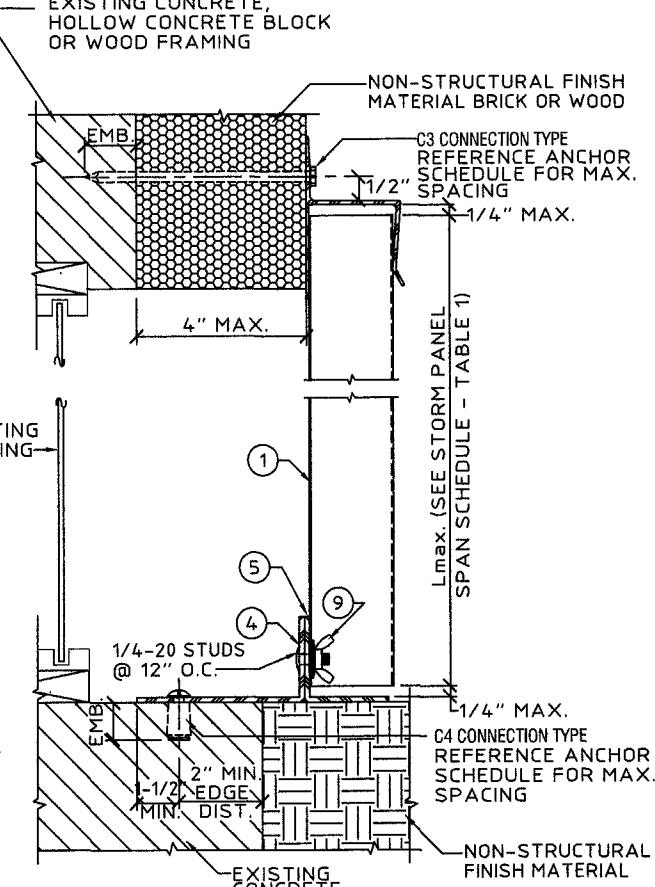
(M) C-TRACK ASSEMBLY (ISOMETRIC VIEW)
N.T.S.



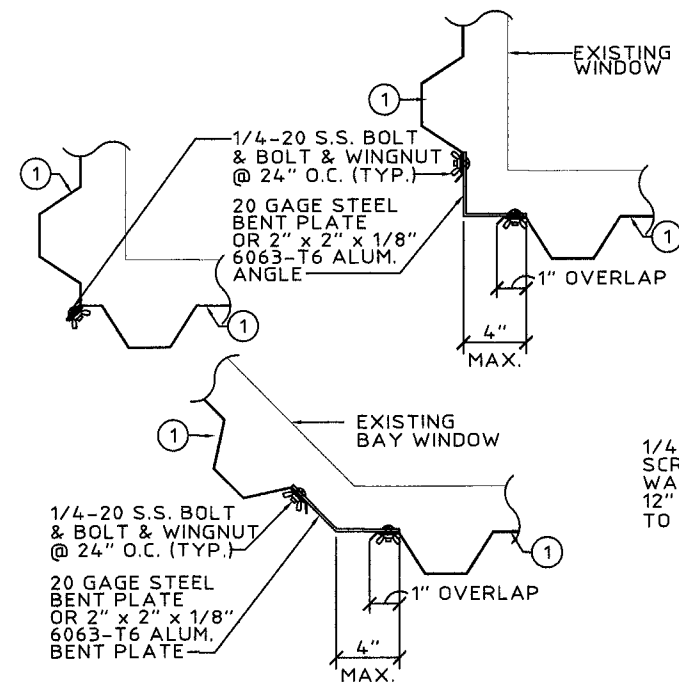
N WOOD CEILING/ INSIDE MOUNT SECTION
SCALE: 3" = 1'-0"



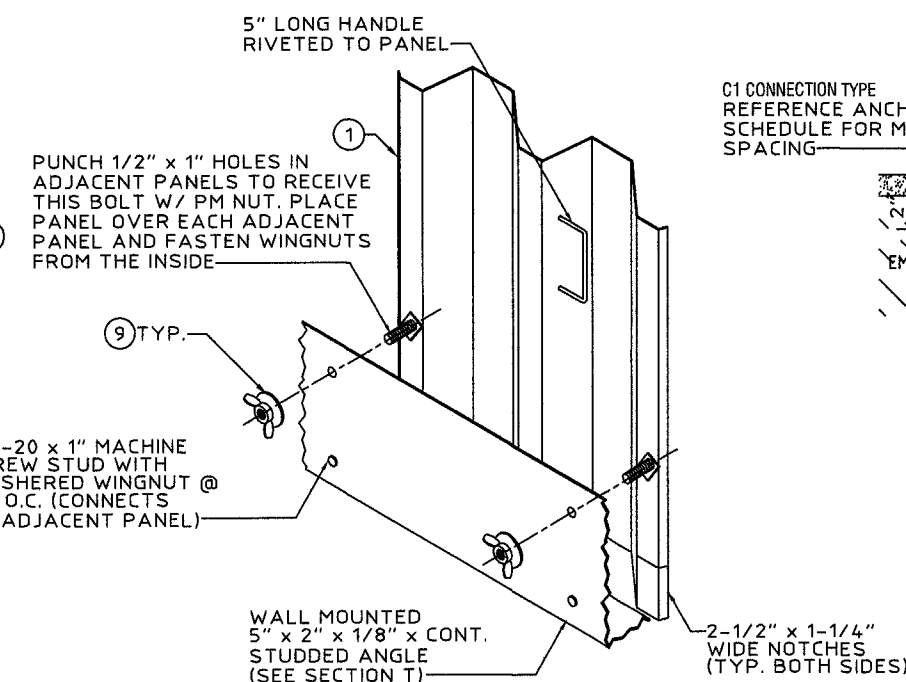
P WALL MOUNT SECTION
SCALE: 3" = 1'-0"



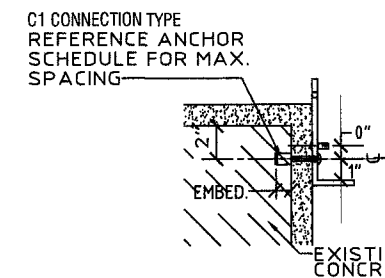
Q WALL MOUNT / BUILD OUT SECTION
SCALE: 3" = 1'-0"



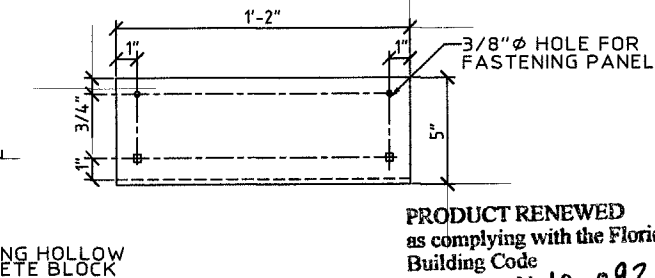
R TYPICAL CORNER CLOSURE DETAILS (PLAN)
SCALE: 1-1/2" = 1'-0"



S OPTIONAL INTERIOR FASTENING DETAIL (ISOMETRIC)
N.T.S.



T INTERIOR FASTENING ANGLE ASSEMBLY
SCALE: 1-1/2" = 1'-0"



PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 10-0929.04
Expiration Date 11/16/2015
By *Heidi A. McLean*
Miami Dade Product Control
Division

DETAILS (S) & (T) NOTE:
THESE DETAILS DEPICT THE
CONNECTION OF THE LAST PANEL
FOR AN OPENING WITH PANELS
INSTALLED FROM INSIDE. USE
OF THESE DETAILS SHALL BE IN
CONJUNCTION WITH AN "H"
HEADER OR "U" HEADER TOP
MOUNT.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0114.05
Expiration Date 11/16/2015
By *Heidi A. McLean*
Miami Dade Product Control
Division

V.J. Knezevich
Professional Engineer
FL License No.: PE 0010983
FLORIDA COA No.: 27989

Sept 3, 2008
drawn by *Heidi A. McLean*
scale AS NOTED
date 05/15/2008
project no. 08-351

0.050" ALUMINUM STORM PANEL

ANCHOR SCHEDULE

FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

EXIST. STRUC.	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	SPANS UP TO 6'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 12'-0" (SEE NOTE 1)					SPANS UP TO 6'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 12'-0" (SEE NOTE 1)						
			MIN. 1" EDGE DISTANCE															MIN. 2 1/2" EDGE DISTANCE																
			CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)						
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5		
CONCRETE		43.0	14	14	14	8	8	14	14	14	6	5	14	11	14	4	4	14	14	14	14	14	14	14	14	14	14	12	14	12	14	10	9	
		50.0	14	14	14	7	6	14	14	14	5	4	14	8	14	3	3	14	14	14	14	14	14	14	14	14	14	12	10	14	9	14	9	7
		72.0	14	14	14	5	4	14	8	12	3	3	14	7	10	3	3	14	14	14	12	10	14	9	13	8	7	14	8	11	8	7		
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EXIST. STRUC.	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 1 1/4" EDGE DISTANCE															MIN. 3" EDGE DISTANCE																
			CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)											
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5		
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		43.0	12	12	12	12	12	12	12	12	11	10	12	9	12	8	7	12	12	12	12	12	12	12	12	12	12	12	12	12	10	9		
		50.0	12	12	12	12	12	12	12	12	10	8	12	7	12	7	6	12	12	12	12	12	12	12	12	12	12	12	12	12	9	12	9	7
		72.0	12	12	12	10	8	12	6	10	7	5	12	6	8	6	5	12	12	12	12	10	12	8	12	8	7	12	7	10	8	7		
		84.0	12	10	12	8	7	12	6	8	6	5	12	6	8	6	5	12	12	12	10	9	12	7	10	8	7	12	7	10	8	7		
	150.0	12	6	8	6	5	12	6	8	6	5	12	6	8	6	5	12	7	10	8	7	12	7	10	8	7	12	7	10	8	7			
		43.0	14	14	14	12	12	14	14	14	9	8	14	10	14	7	6	14	14	14	14	14	14	14	14	14	14	12	14	13	14	12	10	
		50.0	14	14	14	12	10	14	14	14	8	7	14	7	13	6	5	14	14	14	14	14	14	14	14	14	14	12	14	10	14	10	8	
		72.0	14	14	14	8	7	14	7	11	5	5	14	6	9	5	4	14	14	14	12	10	14	7	11	8	7	14	6	9	8	6		
		84.0	14	10	14	7	6	14	6	9	5	4	14	6	9	5	4	14	11	14	10	9	14	6	9	8	6	14	6	9	8	6		
	150.0	14	6	9	5	4	14	6	9	5	4	14	6	9	5	4	14	6	9	8	6	14	6	9	8	6	14	6	9	8	6			

EXIST. STRUC.	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 1" EDGE DISTANCE															MIN. 2 1/2" EDGE DISTANCE														
			CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)									
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
HOLLOW CONCRETE BLOCK		43.0	8	8	8	4	3	5	4	5	3	4	4	4	4	4	14	14	14	9	7	9	7	9	6	4	7	3	7	4	3	
		50.0	7	7	7	3	3	5	4	5	3	4	4	4	4	4	12	12	12	7	6	8	4	8	5	4	6	4	4	3	3	
		72.0	5	5	5	3	3	5	4	5	3	4	4	4	4	4	12	12	12	10	8	12	8	12	8	7	5	5	3	3	3	
		84.0	4	4	4	3	3	5	4	5	3	4	4	4	4	4	12	12	12	10	9	12	7	10	8	7	5	5	3	3	3	
	150.0	3	3	3	3	3	5	4	5	3	4	4	4	4	4	12	12	12	10	9	12	7	10	8	7	5	5	3	3	3		
		43.0	14	14	14	8	6	11	8	11	5	4	8	3	8	4	3	14	14	14	11	8	11	8	11	7	5	8	3	8	5	4
		50.0	14	14	14	7	5	9	5	9	4	3	7	7	5	3	4	14	14	14	9	7	9	5	9	6	5	7	5	4	3	
		72.0	9	5	9	4	3	6	4	4	3	4	6	3	3	3	4	9	5	9	6	5	6	4	4	3	6	3	4	3		
		84.0	8	4	8	4	3	6	3	3	3	3	6	3	3	3	4	8	4	8	5	4	6	3	4	3	6	3	4	3		
	150.0	6	3	3	3	3	6	3	3	3	3	6	3	3	3	4	6	3	3	4	3	6	3	4	3	6	3	4	3			
		43.0	14	14	14	6	5	12	9	12	4	3	9	4	9	3	4	14	14	14	14	11	14	14	14	10	8	14	6	14	7	5
		50.0	14	14	14	5	4	10	6	10	3	3	7	3	5	4	4	14	14	14	12	10	14	9	14	8	7	12	5	8	6	5
		72.0	10	6	10	3	3	7	3	4	3	3	7	3	3	3	4	14	9	14	8	7	11	4	7	6	4	11	4	5	5	4
		84.0	9	4	9	3	3	7	3	3	3	3	7	3	3	3	4	14	7	14	7	6	11	4	5	5	4	11	4	5	5	4
	150.0	7	3	3	3	3	7	3	3	3	3	7	3	3	3	4	14	4	5	5	4	11	4	5	5	4	11	4	5	5	4	

EXIST. STRUC.	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE															MIN. 3" EDGE DISTANCE															
			CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)										
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	
			C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	
HOLLOW CONCRETE BLOCK		43.0	14	14	14	13	11	14	14	14	9	8	14	7	14	6	5	14	14	14	14	14	14	14	14	14	12	10	14	8	14	9	7
		50.0	14	14	14	11	9	14	11	14	8	6	14	6	10	5	4	14	14	14	14	12	14	12	14	10	8	14	6	11	7	6	
		72.0	14	11	14	8	6	13	5	8	5	4	13	5	7	5	4	14	12	14	10	8	14	6	9	7	6	14	5	7	7	5	
		84.0	14	8	14	6	5	13	5	7	5	4	13	5	7	5	4	14	9	14	9	7	14	5	7	7	5	14	5	7	7	5	
	150.0	13	5	7	5	4	13	5	7	5	4	13	5	7	5	4	14	5	7	7	5	14	5	7	7	5	14	5	7	7	5		
		43.0	12	12	12	10	8	12	12																								

0.050" ALUMINUM STORM PANEL

T A B L E	MINIMUM STORM PANEL SEPARATION FROM GLASS			
	POSITIVE DESIGN LOAD (W) (P.S.F.)	ACTUAL SPAN (L) (FT - IN)	COLUMN 1 MIN. SEP. FOR ALL INSTALLATIONS LESS THAN 30' ABOVE GRADE (INCHES)	COLUMN 2 MIN. SEP. FOR ALL INSTALLATIONS GREATER THAN 30' ABOVE GRADE (INCHES)
2	40.0	8-8	3	2-1/4
		10-6	5	3-3/8
	50.0	8-8	3	2-1/2
		9-10	5	3-1/4
	60.0	8-8	3	2-3/4
		9-5	5	3-1/4
	70.0	4-0	3	1-1/2
		8-8	3	3
		9-0	5	3-1/4
		4-0	3	1-1/2
	80.0	8-4	3	3
		4-0	3	1-1/2
	90.0	7-9	3	2-3/4
		4-0	3	1-1/2
	100.0	7-3	3	2-1/2
		4-0	3	1-1/2
	110.0	6-9	3	2-3/8
		3-0	3	1-1/2
	120.0	6-4	3	2-1/4

TABLE 1 NOTES:

1. DETERMINE BOTH THE POSITIVE AND THE NEGATIVE WIND LOADS. CHECK THEIR RESPECTIVE SPANS AND USE THE LESSER SPAN VALUE OF THE TWO.
2. FOR DESIGN LOADS BETWEEN TABULATED VALUES USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.

TABLE 2 NOTE:

1. ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MIN. STORM SHUTTER SEPARATION FROM GLASS.

T A B L E	MAX. ALLOWABLE STORM PANEL SPAN SCHEDULE		
	POSITIVE OR NEGATIVE DESIGN LOAD (P.S.F.)	SPAN FOR NEG PRESSURE (FT - IN)	SPAN FOR POS PRESSURE (FT - IN)
1	40.0	12'-0"	10'-4"
	45.0	11'-3"	10'-1"
	50.0	10'-8"	9'-9"
	55.0	10'-2"	9'-6"
	60.0	9'-9"	9'-3"
	62.0	9'-7"	9'-1"
	65.0	9'-4"	8'-11"
	70.0	9'-0"	8'-7"
	72.0	8'-11"	8'-4"
	75.0	8'-8"	8'-0"
	80.0	8'-3"	7'-6"
	90.0	7'-4"	6'-8"
	100.0	6'-7"	6'-0"
	110.0	6'-0"	5'-5"
	120.0	5'-6"	5'-0"
	130.0	5'-1"	4'-7"
	140.0	4'-8"	4'-3"
	150.0	4'-4"	4'-0"

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 10-0929.04
Expiration Date 11/16/2015
By *Helmy A. Matar*
Miami Dade Product Control
Division

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 09-0114.05
Expiration Date 11/16/2010
By *Helmy A. Matar*
Miami Dade Product Control
Division

V.J. Knezevich
Professional Engineer
FL License No.: PE 0010983
FLORIDA COA No. 27989

Sept 3, 2008
drawn by scale
WDS AS NOTED
date 05/15/2008
project no.
08-351