



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

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Lyn-Rand Metal Fabrications Co., Inc.
4730 NW 128th Street Road
Miami FL 33054

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT SECTION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

Your application for Product Approval of:

"L R" 0.050" Aluminum Storm Panels Shutter

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime from a jobsite or manufacturer's plant for quality control testing.

If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Acceptance No.: 00-0225.06

Expires: 06/15/2003

Raul Rodriguez
Chief Product Control Division

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS

BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director

Miami-Dade County
Building Code Compliance Office

Approved: 06/15/2000



Lyn-Rand Metal Fabrications Co., Inc.

ACCEPTANCE No. : 00-0225.06

APPROVED : JUN 15 2000

EXPIRES : JUN 15 2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This approves a 0.050" aluminum storm panels shutter, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

This 0.050" aluminum storm panels shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 99-375, titled "0.050" Aluminum Storm Panel", prepared by Knezevich & Associates, Inc., dated February 4, 2000, last revision # 1 dated May 11, 2000, sheets 1 through 5 of 5, 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. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

All permanent set components, included but not limited to embedded anchor bolts, threaded cones, metal shields, headers and sills, must be protected against corrosion, contamination and damage at all times.

4. INSTALLATION

This 0.050" aluminum storm panels shutter and its components shall be installed in strict compliance with the approved drawings.

5. LABELING

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

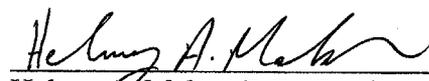
6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance.

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.



Helmy A. Makar, P.E.- Product Control Examiner
Product Control Division

Lyn-Rand Metal Fabrications Co., Inc.

ACCEPTANCE No. : 00-0225.06

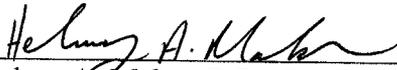
APPROVED : JUN 15 2000

EXPIRES : JUN 15 2003

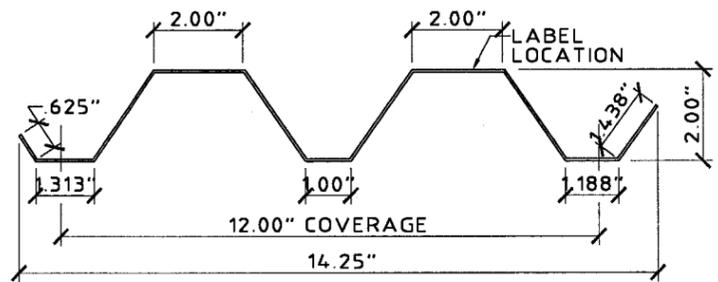
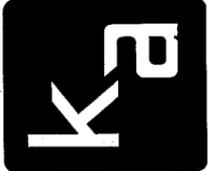
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

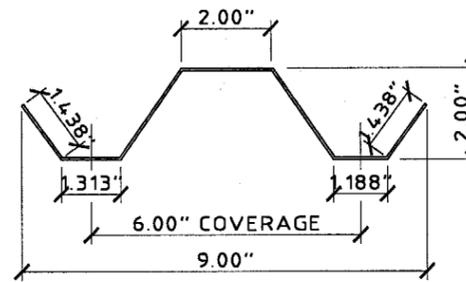
END OF THIS ACCEPTANCE



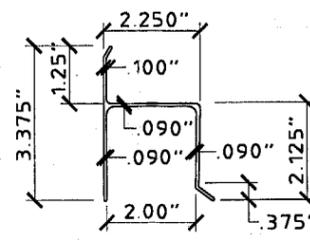
Helmy A. Makar, P.E.- Product Control Examiner
Product Control Division



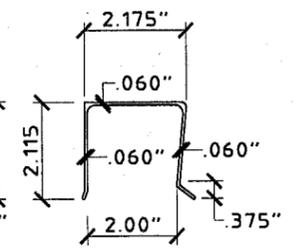
1 STORM PANEL
SCALE: 3" = 1' - 0"



2 HALF STORM PANEL
SCALE: 3" = 1' - 0"



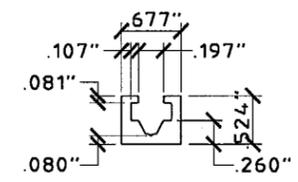
3 "h" HEADER
SCALE: 3" = 1' - 0"



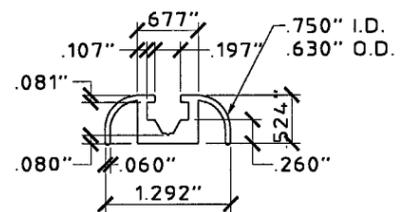
4 "U" HEADER
SCALE: 3" = 1' - 0"

GENERAL NOTES:

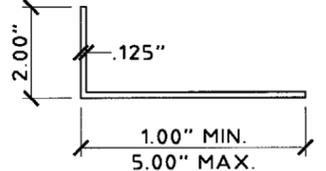
1. THIS SHUTTER SYSTEM IS DESIGNED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
2. POSITIVE AND NEGATIVE DESIGN PRESSURE CALCULATIONS SHALL BE PERFORMED FOR SPECIFIC JOBS IN ACCORDANCE WITH ASCE 7-88 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES". TABLES SHALL BE REFERENCED AT THE APPROPRIATE DESIGN LOADS.
3. STORM PANELS SHALL BE 3004-H34 OR EQUAL ALUMINUM ALLOY 0.050" THICK. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
4. PRODUCT MARKINGS SHALL BE WITHIN 12" OF ONE END OF THE PANEL WITH A MIN. OF ONE MARKING PER PANEL, AND SHALL BE LABELED AS FOLLOWS:
LYN-RAND METAL FABRICATIONS CO., INC.
MIAMI, FLORIDA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
5. ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I.
6. THE DETAILS AND SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED FOR IMPACT, CYCLIC AND UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH DADE COUNTY PROTOCOLS PA 201, 203, AND 202.
REFERENCE CONSTRUCTION TESTING CORP. (C.T.C.) TEST REPORT No. 99-048.
7. TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE.
8. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. EMBEDMENT LENGTHS SHALL BE AS NOTED AND DO NOT INCLUDE STUCCO OR OTHER FINISHES.



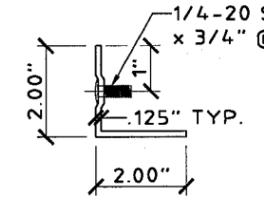
5 PRE-STUCCO TRACK
SCALE: HALF SIZE



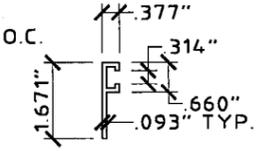
6 FINISH TRACK
SCALE: HALF SIZE



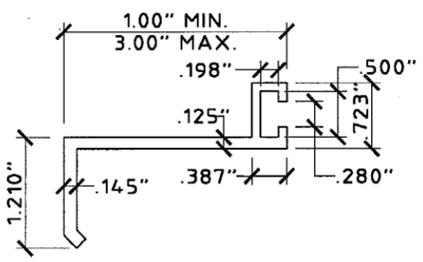
7 ANGLE
SCALE: 3" = 1' - 0"



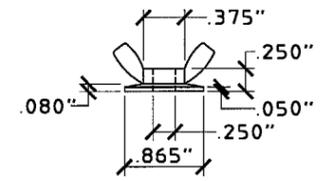
8 STUD ANGLE
SCALE: 3" = 1' - 0"



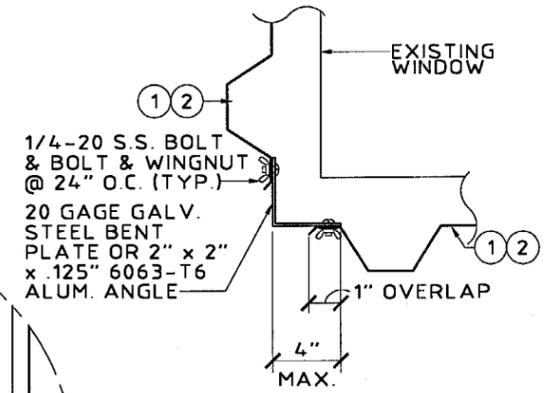
9 "F" TRACK
SCALE: 3" = 1' - 0"



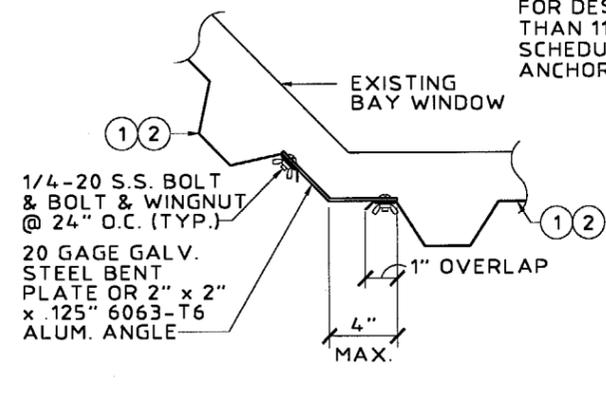
10 BUILD-OUT F-TRACK
SCALE: HALF SIZE



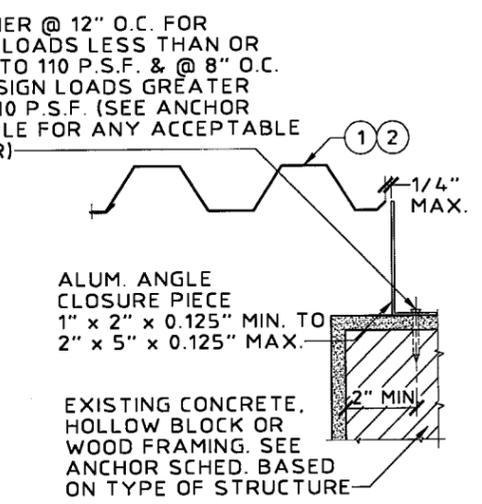
11 WASHNERED WINGNUT
SCALE: HALF SIZE



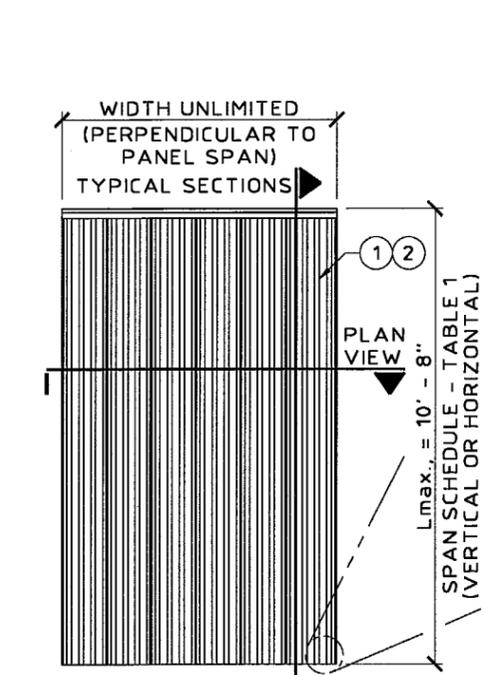
B CORNER CLOSURE DETAIL
SCALE: 1-1/2" = 1' - 0"



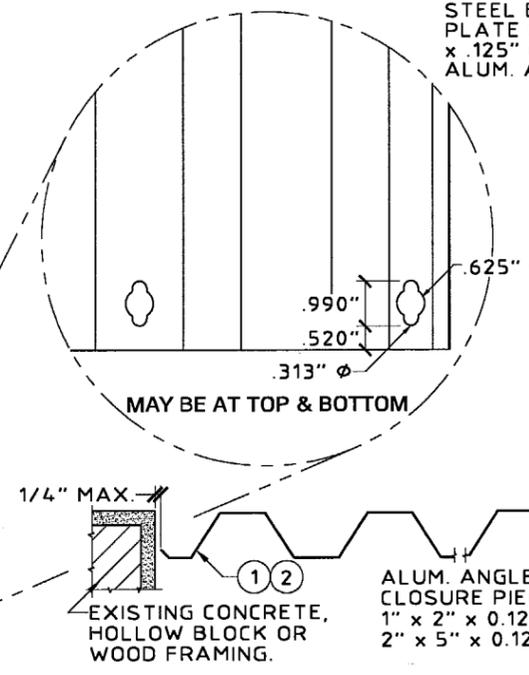
C CORNER CLOSURE DETAIL
SCALE: 1-1/2" = 1' - 0"



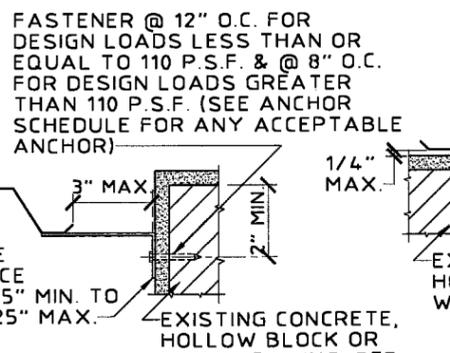
D BUILD-OUT MOUNT CLOSURE DETAIL
SCALE: 1-1/2" = 1' - 0"



A PANEL ELEVATION
SCALE: 1/4" = 1' - 0"



E TRAP MOUNT CLOSURE DETAIL
SCALE: 1-1/2" = 1' - 0"



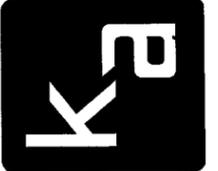
F WALL MOUNT CLOSURE DETAIL
SCALE: 1-1/2" = 1' - 0"

KNEZEVICH & ASSOCIATES, INC.
CONSULTING ENGINEERS • PRODUCT TESTING
1280 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
TEL: (954) 382-2800 • FAX: (954) 382-2899 • FLORIDA COA #3205
WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KAG@KNEZEVICH.COM
COPYRIGHT © 2000 KNEZEVICH & ASSOCIATES, INC.

0.050" ALUMINUM STORM PANEL
LYN-RAND METAL FABRICATIONS COMPANY, INC.
4730 N.W. 128th STREET RD.
MIAMI, FLORIDA 33054
TEL: (305) 685-8231
FAX: (305) 685-5466

no.	date	by	description	COUNTY COMMENTS
1	05/11/00	VJK		

V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No: PE 0010983
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: June 15, 2000
BY: *Helmut A. Mader*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0225.06
drawing no. 99-375
sheet 1 of 5



KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING
 1260 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33302
 TEL: (954) 382-2800 • FAX: (954) 382-2888 • FLORIDA COA #3205
 WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KAG@KNEZEVICH.COM
 COPYRIGHT © 2000 KNEZEVICH & ASSOCIATES, INC.

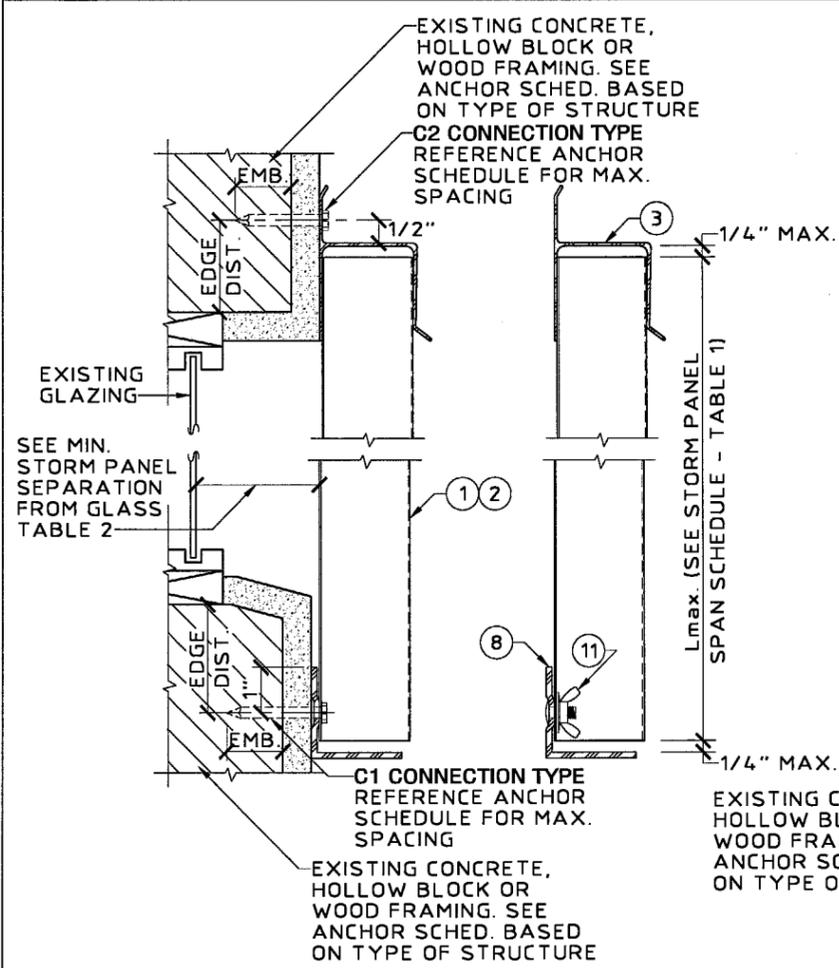
O-050" ALUMINUM STORM PANEL
LYN-RAND
 METAL FABRICATORS COMPANY, INC.
 4730 N.W. 128th STREET RD.
 MIAMI, FLORIDA 33054
 TEL: (305) 685-8231
 FAX: (305) 685-5466

revisions		description	COUNTY COMMENTS
no.	date	by	
1	05/11/00	VJK	

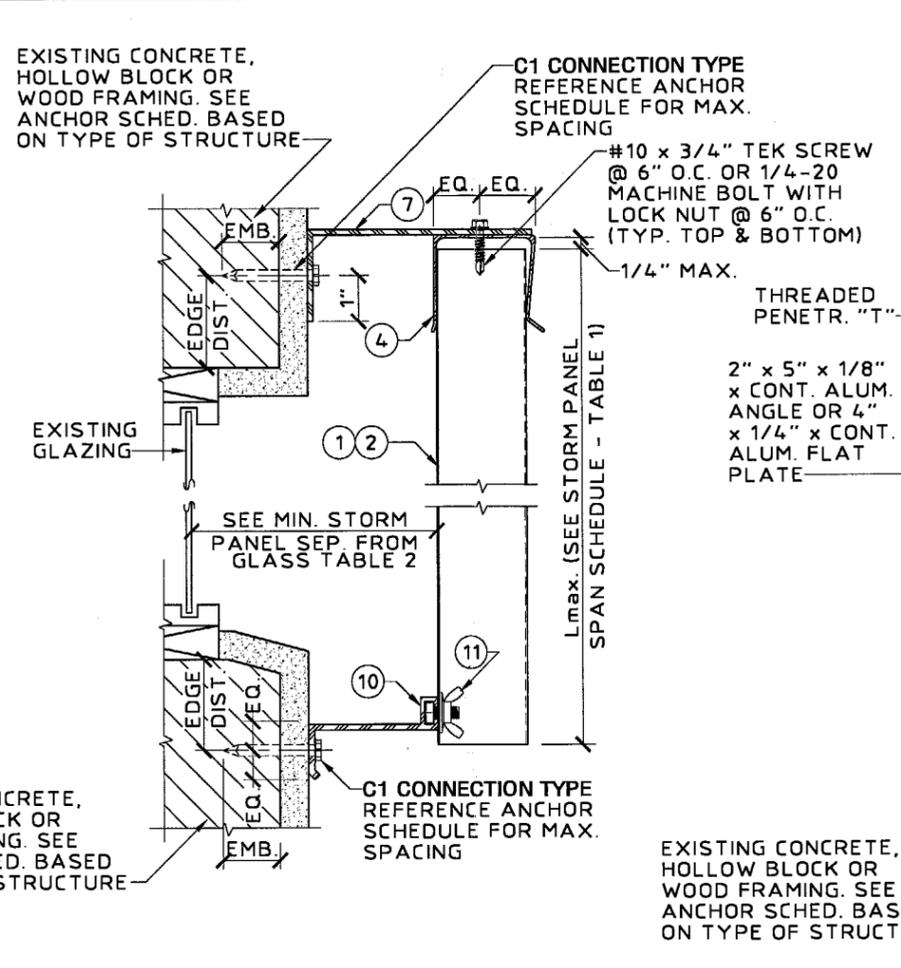
V.J. KNEZEVICH
 PROFESSIONAL ENGINEER
 FL License No:
 PE 0070983

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE: *June 15, 2000*
 BY: *Helmut A. Mader*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. *00-0225.06*

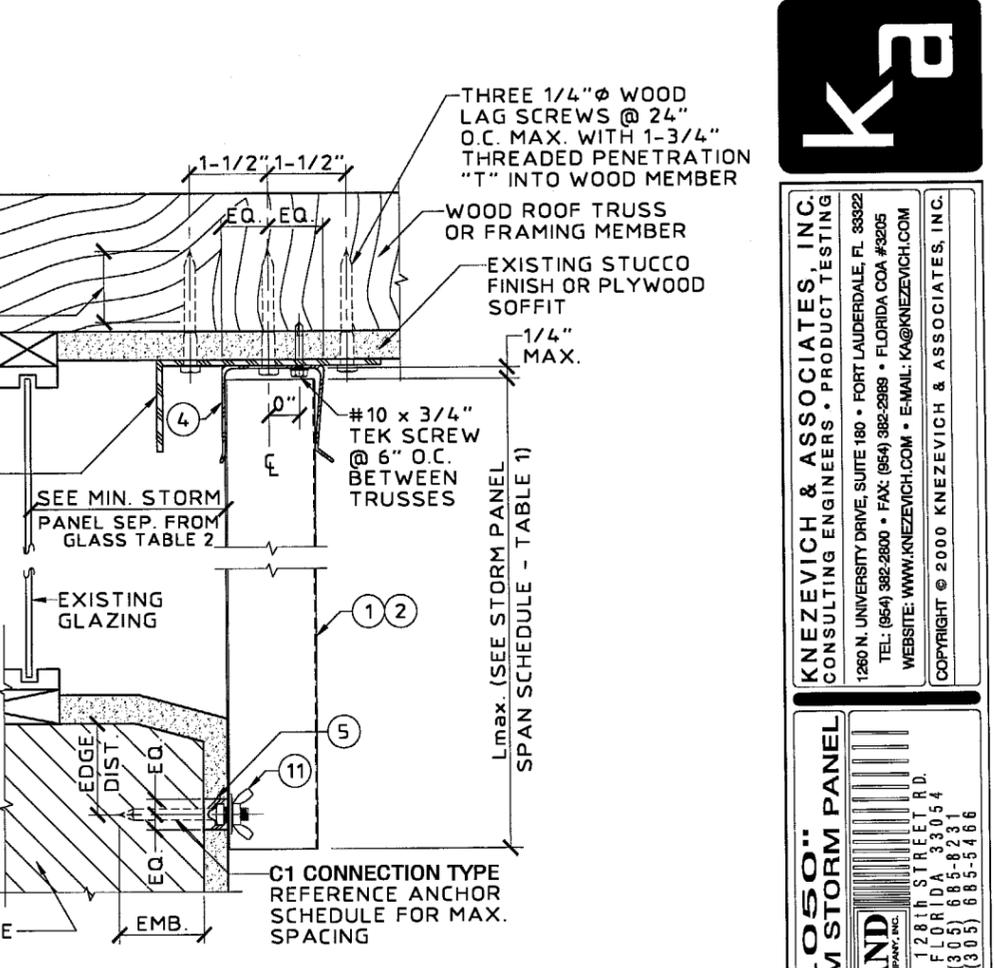
MAY 17 2000
 date 05/10/00
 scale AS NOTED drawn by MC
 design by VJK checked by VJK
 drawing no. 99-375
 sheet 2 of 5



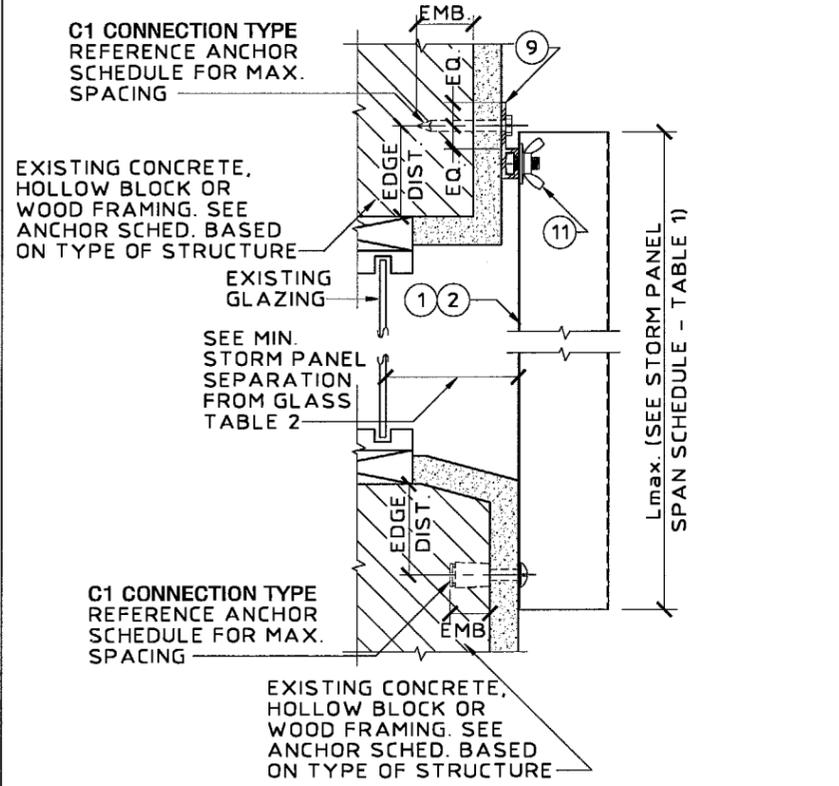
G WALL MOUNT SECTION
 SCALE: 3" = 1' - 0"



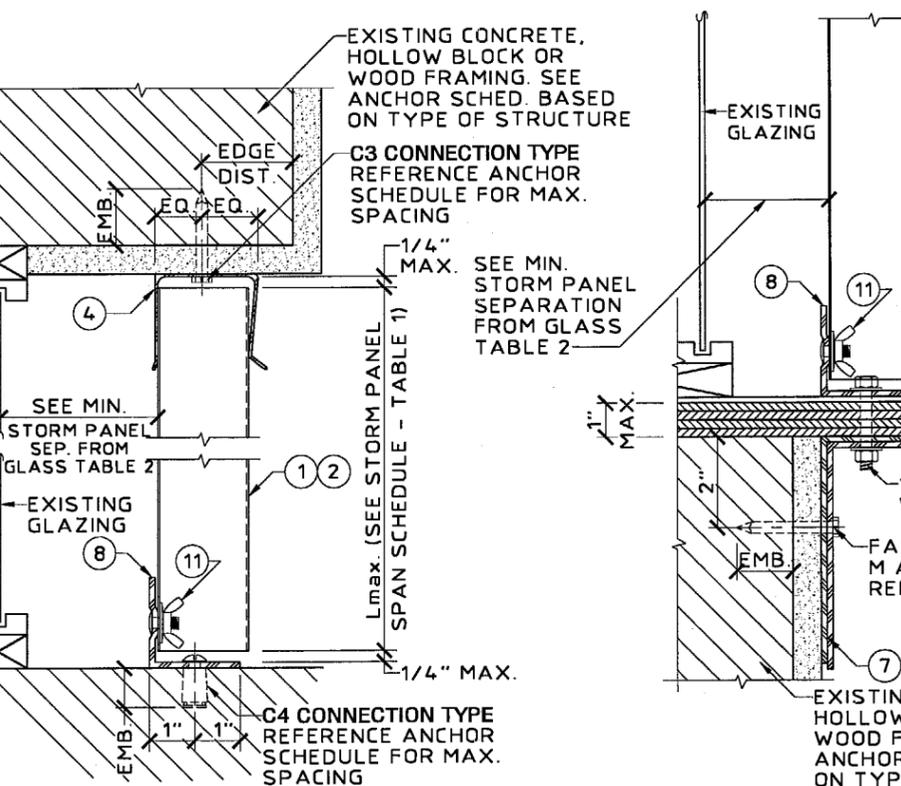
H BUILD-OUT MOUNT SECTION
 SCALE: 3" = 1' - 0"



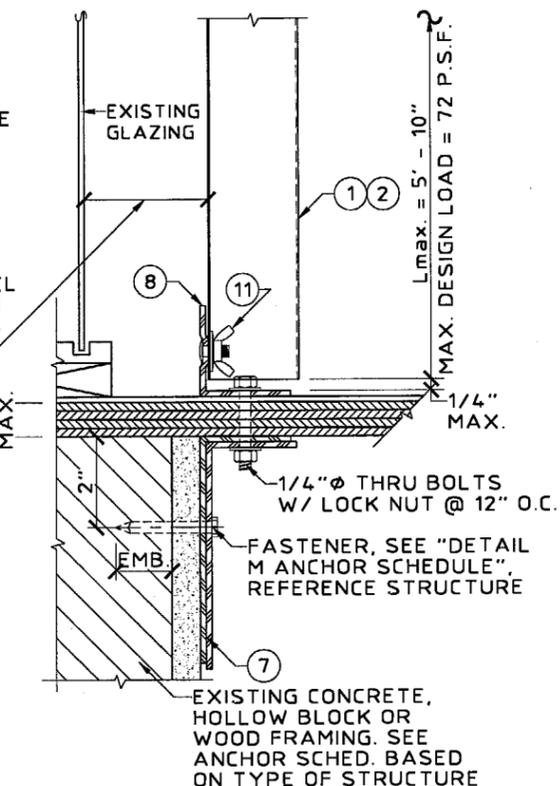
J CEILING / PRE-STUCCO TRACK
 SCALE: 3" = 1' - 0"



**K F\"/>
 SCALE: 3" = 1' - 0"**



L CEILING / FLOOR MOUNT SECTION
 SCALE: 3" = 1' - 0"

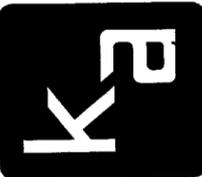


**M \"/>
 SCALE: 3" = 1' - 0"**

DETAIL M ("PASS THRU" SEC.) ANCHOR SCHEDULE

CONC.	BLOCK	CONC.	BLOCK	WOOD
7"	3"	12"	5"	12"

1/4" ITW TAPCON W/ 1-3/4" MIN. EMBEDMENT
 1/4" POWERS CALK-IN W/ 7/8" EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW
 1/4" WOOD LAG SCREW W/ MINIMUM 1-3/4" PENETRATION SHEAR PARALLEL OR PERPENDICULAR TO WOOD GRAIN
 1/4" THRU BOLTS W/ LOCK NUT @ 12" O.C.
 FASTENER, SEE "DETAIL M ANCHOR SCHEDULE", REFERENCE STRUCTURE



		ANCHOR SCHEDULE																								
		FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS																								
EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE												MIN. 3" EDGE DISTANCE											
			SPANS UP TO 5'-6"				SPANS UP TO 8'-8"				SPANS UP TO 10'-8"				SPANS UP TO 5'-6"				SPANS UP TO 8'-8"				SPANS UP TO 10'-8"			
			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				C1 C2 C3 C4				C1 C2 C3 C4				C1 C2 C3 C4				C1 C2 C3 C4				C1 C2 C3 C4				
HOLLOW CONCRETE BLOCK	1/4" Ø ITW BUILD EX MAXISET OR PHILLIPS FLAT HEAD TAPCON W/ 1-1/4" MIN. EMBEDMENT	48	12	12	11	10	10	4	7	6	8	5	5	12	12	12	11	11	4	8	7	9	3	6	6	
		62	12	6	8	8	8	5	5	6	4	4	12	7	10	9	9	6	5	7	5	4	5	4		
		72	11	4	7	6	7	4	4	6	4	4	12	5	8	7	7	5	4	7	5	4	7	5	4	
		92	8	6	5	6	4	4	6	4	4	9	3	6	6	7	5	4	7	5	4	7	5	4		
	200	6	4	4	6	4	4	6	4	4	7	5	4	7	5	4	7	5	4	7	5	4				
	3/16" Ø ITW BUILD EX PHILLIPS FLAT HEAD OR SLOTTED HEX TAPCON W/ 1-1/4" MIN. EMBED.	48	9	9	7	6	6	4	4	4	3	3	10	10	8	7	6	5	4	5	4	3				
		62	7	3	5	5	4	3	3	3	8	4	6	5	5	3	3	4	3							
		72	6	4	4	4	3	3	7	5	4	4	3	3	4	3										
		92	5	3	3	3	3	3	5	4	3	4	3	4	3											
	200	3	3	3	3	3	3	4	3	4	3	4	3													
	1/4" Ø ELCO MALE/ FEMALE "PANELMATE" W/ 1-1/4" MIN. EMBEDMENT & 1/4"-20 MACHINE SCREW WITH NUT	48	12	12	12	12	12	5	8	7	12	3	6	6	12	12	12	12	12	6	9	9	12	4	8	7
		62	12	9	10	9	11	3	6	5	9	5	4	12	9	12	10	12	3	7	6	10	6	5		
72		12	6	8	8	10	5	5	9	5	4	12	6	10	9	10	6	6	10	6	5					
92		12	4	6	6	9	5	4	9	5	4	12	4	8	7	10	6	5	10	6	5					
200	9	5	4	9	5	4	9	5	4	10	6	5	10	6	5	10	6	5								
1/4" Ø POWERS CALK-IN W/ 7/8" EMBEDMENT & 1/4"-20 STAINLESS STEEL MACHINE SCREW	48	12	12	11	10	12	5	7	6	11	3	5	5	12	12	12	12	12	6	11	10	12	4	9	8	
	62	12	8	8	8	10	3	5	5	8	4	4	12	10	12	12	12	3	8	7	10	7	6			
	72	12	5	7	6	9	4	4	8	4	4	12	7	11	10	11	3	7	6	10	7	6				
	92	11	3	5	5	8	4	4	8	4	4	12	4	9	8	10	7	6	10	7	6					
200	8	4	4	8	4	4	8	4	4	10	7	6	10	7	6	10	7	6								
1/4" Ø POWERS ZAMAC NAIL-IN W/ 1-1/8" MIN. EMBEDMENT	48	12	12	12	10	11	4	7	6	9	6	5	12	12	12	12	12	4	9	8	10	3	7	6		
	62	12	7	9	8	8	5	5	7	4	4	12	7	11	10	9	7	6	7	5	5					
	72	11	4	8	7	7	5	4	7	4	4	12	5	9	8	8	6	5	7	5	5					
	92	9	6	5	7	4	4	7	4	4	10	3	7	6	7	5	5	7	5	5						
200	7	4	4	7	4	4	7	4	4	7	2	5	5	7	5	5	7	5	5							
1/4" Ø ELCO CRETE FLEX W/ 1-1/4" MIN. EMBEDMENT	48	12	12	12	12	12	8	11	10	12	5	8	8	12	12	12	12	12	8	12	12	12	5	10	9	
	62	12	12	12	12	12	5	8	7	12	3	6	6	12	12	12	12	12	5	10	9	12	3	8	7	
	72	12	9	11	10	12	4	7	6	12	3	6	6	12	9	12	12	12	4	8	8	12	3	8	7	
	92	12	5	9	8	12	3	6	6	12	3	6	6	12	6	10	10	12	3	8	7	12	3	8	7	
200	12	3	6	6	12	3	6	6	12	3	6	6	12	3	8	7	12	3	8	7	12	3	8	7		
1/4" Ø TRUFAS TAPGRIP CFAS W/ 1-1/4" MIN. EMBEDMENT	48	12	12	8	7	9	3	5	4	8	4	4	12	12	10	9	11	4	6	6	9	5	5			
	62	12	6	6	6	7	4	3	6	3	3	12	6	8	7	8	5	4	7	4	3					
	72	10	4	5	5	6	3	3	6	3	3	11	4	7	6	7	4	4	7	4	3					
	92	8	4	4	6	3	3	6	3	3	9	5	5	7	4	3	7	4	3							
200	6	3	3	6	3	3	6	3	3	7	4	3	7	4	3	7	4	3								

SEE PAGE 4 OF 5 FOR COMPLETE ANCHOR NOTES.

MINIMUM STORM PANEL SEPARATION FROM GLASS			
TABLE 2 POSITIVE DESIGN LOAD (W) (P.S.F.)	ACTUAL SPAN (L) (FT - IN)	COLUMN 1	COLUMN 2
		MIN. SEP. FOR ALL INSTALLATIONS LESS THAN 30' ABOVE GRADE (INCHES)	MIN. SEP. FOR ALL INSTALLATIONS GREATER THAN 30' ABOVE GRADE (INCHES)
30.0	5'-0"	3	1-3/8
	8'-8"	3	1-7/8
	9'-0"	3	2
	10'-8"	3	2-3/4
40.0	5'-0"	3	1-3/8
	8'-8"	3	2-1/8
	9'-0"	3	2-1/4
	10'-8"	3	3
50.0	5'-0"	3	1-3/8
	7'-0"	3	1-3/4
	8'-8"	3	2-3/8
	9'-9"	3	3
60.0	5'-0"	3	1-3/8
	7'-0"	3	1-7/8
	8'-8"	3	2-1/2
	9'-4"	3	3
70.0	5'-0"	3	1-1/2
	6'-0"	3	1-5/8
	7'-0"	3	1-7/8
	9'-0"	3	3

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

TABLE 1 NOTE:
1. ENTER TABLE 1 WITH NEGATIVE DESIGN LOAD TO DETERMINE MAX. PANEL LENGTH. POSITIVE LOADS LESS THAN OR EQUAL TO THE NEGATIVE LOAD ARE ACCEPTABLE. FOR DESIGN LOADS BETWEEN TABULATED VALUES, NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.

TABLE 1 DESIGN LOAD (P.S.F.)	MAX. ALLOWABLE STORM PANEL SPAN SCHEDULE	
	SPAN (FT - IN)	
35	10	- 8
40	10	- 4
45	10	- 0
50	9	- 9
55	9	- 6
60	9	- 4
65	9	- 2
70	9	- 0
75	8	- 8
80	8	- 3
85	7	- 9
90	7	- 4
95	6	- 11
100	6	- 7
105	6	- 3
110	6	- 0
115	5	- 8
120	5	- 6
125	5	- 3
130	5	- 1
135	4	- 10
140	4	- 8
145	4	- 6
150	4	- 4
155	4	- 3
160	4	- 1
165	4	- 0
170	3	- 10
175	3	- 9
180	3	- 8
185	3	- 6
190	3	- 5
195	3	- 4
200	3	- 3

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE June 15, 2000
By Helmut A. M...
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 00-0225-06

KNEZEVICH & ASSOCIATES, INC.
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0-050" ALUMINUM STORM PANEL
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MIAMI, FLORIDA 33054
TEL: (305) 685-8231
FAX: (305) 685-5466

no	date	by	description
1	05/11/00	VJK	COUNTY COMMENTS

V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No:
PE 0010983

MAY 17 2000
date 02/04/00
scale AS NOTED drawn by MC
design by VJK checked by VJK
drawing no. 99-375
sheet 5 of 5