



**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

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

**CONTRACTOR ENFORCEMENT DIVISION**  
(305) 375-2966 FAX (305) 375-2908

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

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**Town & Country Industries, Inc.**  
**400 West Mc Nab Road**  
**Fort Lauderdale ,FL 33309**

Your application for Notice of Acceptance (NOA) of:

**0.050" Aluminum Storm Panel 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 NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time 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 by 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.: 00-0809.03**  
**EXPIRES: 11/16/2005**

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 Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director  
Miami-Dade County  
Building Code Compliance Office

**APPROVED: 11/16/2000**

**Town & Country Industries, Inc.**

**ACCEPTANCE No. : 00-0809.03**

**APPROVED : 11/16/2000**

**EXPIRES : 11/16/2005**

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

This approves an 0.050" aluminum storm panel 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 panel shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 00-159, titled " 0.050" Aluminum Storm Panel", prepared by Knezevich & Associates, Inc., dated August 1, 2000, last revision #1 dated October 26, 2000, sheets 1 through 6 of 6, 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 panel 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".

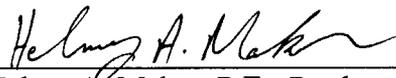
**6. BUILDING PERMIT REQUIREMENTS**

**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

**Town & Country Industries, Inc.**

**ACCEPTANCE No. : 00-0809.03**

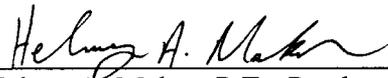
**APPROVED : 11/16/2000**

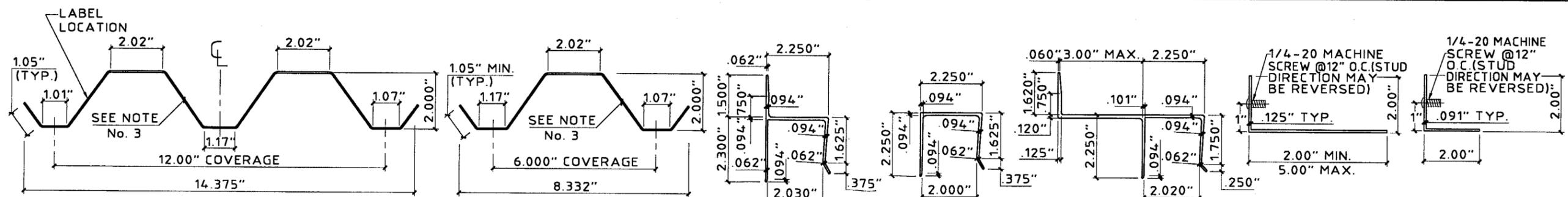
**EXPIRES : 11/16/2005**

**NOTICE OF ACCEPTANCE: STANDARD CONDITIONS**

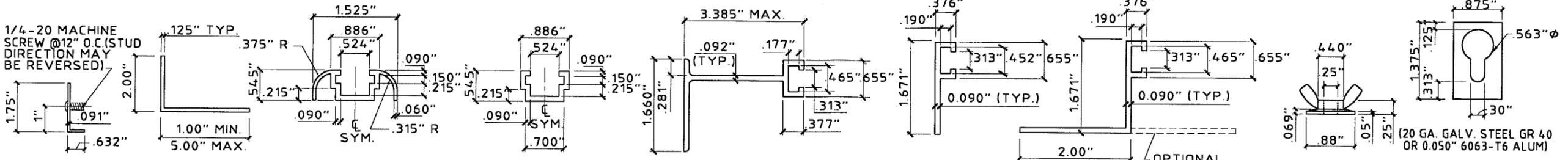
1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the 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**

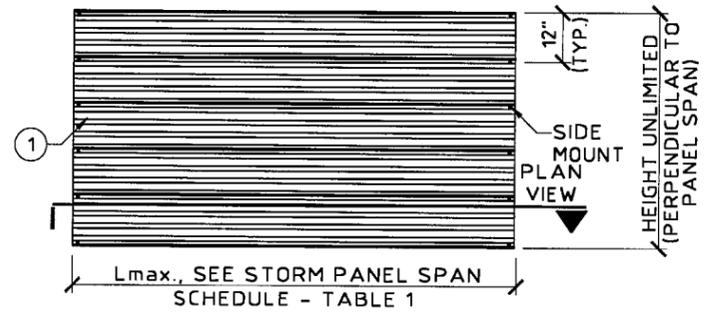
  
\_\_\_\_\_  
Helmy A. Makar, P.E.- Product Control Examiner  
Product Control Division



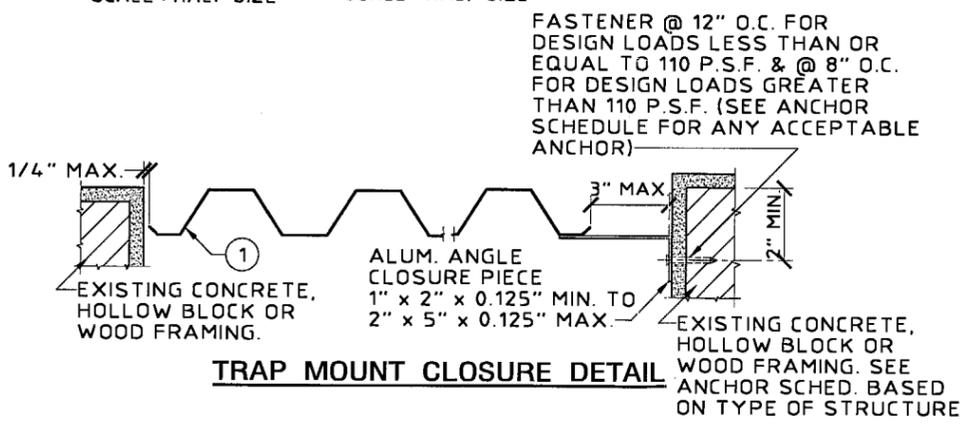
1 STORM PANEL SCALE: 3" = 1'-0"  
 1a HALF STORM PANEL SCALE: 3" = 1'-0"  
 2 "h" HEADER SCALE: 3" = 1'-0"  
 3 "U" HEADER SCALE: 3" = 1'-0"  
 3a BUILD-OUT "U" HEADER SCALE: 3" = 1'-0"  
 4 STUD ANGLE SCALE: 3" = 1'-0"  
 4a STUD ANGLE SCALE: 3" = 1'-0"



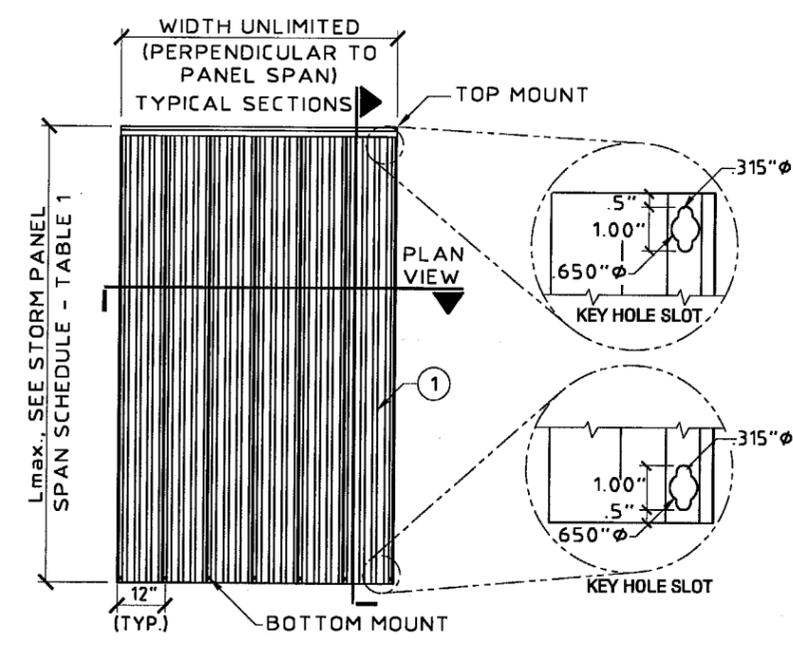
4b STUD ANGLE SCALE: 3" = 1'-0"  
 5 ANGLE SCALE: 3" = 1'-0"  
 6 C-TRACK (FINISH) SCALE: HALF SIZE  
 6a C-TRACK SCALE: HALF SIZE  
 7 BUILD-OUT F-TRACK SCALE: HALF SIZE  
 8 "F" TRACK SCALE: HALF SIZE  
 8a "F" ANGLE - TRACK SCALE: HALF SIZE  
 9 WING NUT SCALE: HALF SIZE  
 10 KEYHOLE WASHER SCALE: HALF SIZE



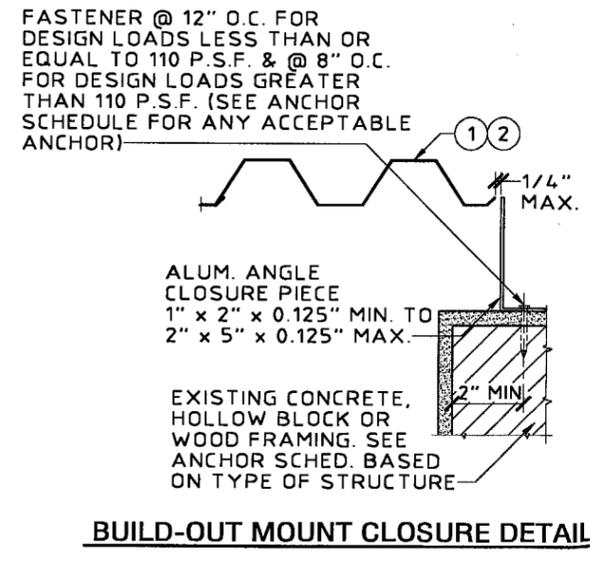
TYPICAL HORIZONTAL ELEVATION  
 SCALE: 1/4" = 1' - 0"



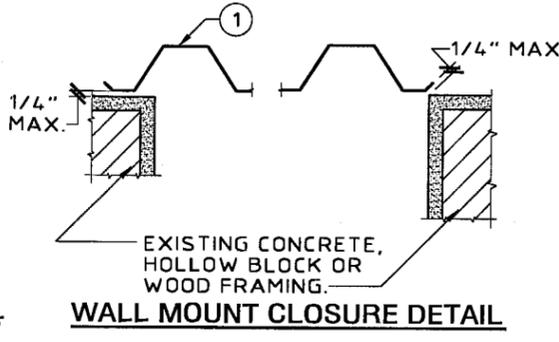
TRAP MOUNT CLOSURE DETAIL



TYPICAL VERTICAL ELEVATION  
 SCALE: 1/4" = 1' - 0"



BUILD-OUT MOUNT CLOSURE DETAIL



WALL MOUNT CLOSURE DETAIL

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

- GENERAL NOTES:**
- THIS SHUTTER SYSTEM IS DESIGNED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
  - 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.
  - STORM PANELS SHALL BE 3004-H34 OR 5052-H34 ALUMINUM ALLOY 0.050" THICK. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
  - 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:  
 TOWN & COUNTRY INDUSTRIES, INC.  
 FT. LAUDERDALE, FL.  
 MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
  - ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N.
  - 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. 00-028.
  - TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE.
  - ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. EMBEDMENT LENGTHS SHALL BE AS NOTED AND DO NOT INCLUDE STUCCO OR OTHER FINISHES.

**KNEZEVICH & ASSOCIATES, INC.**  
 CONSULTING ENGINEERS • PRODUCT TESTING  
 1260 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322  
 TEL: (954) 382-2800 • FAX: (954) 382-2888 • FLORIDA COA #3205  
 WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM  
 COPYRIGHT © 2000 KNEZEVICH & ASSOCIATES, INC.

**0.050" ALUMINUM STORM PANEL**  
**Town & Country Industries, Inc.**  
 400 WEST McNAB ROAD • (800) 432-5019  
 FT. LAUDERDALE, FL 33309

NO.	DATE	BY	DESCRIPTION
1	10/26/00	AS	GENERAL REVISION

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

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE 11/16/2000  
 BY *Helmut A. M...*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 00-0809-03

date	08/01/00
scale	AS NOTED
design by	VJK
checked by	VJK
drawing no.	00-159
sheet	1 of 6

EXISTING CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. SEE ANCHOR SCHED. BASED ON TYPE OF STRUCTURE

C2 CONNECTION TYPE REFERENCE ANCHOR SCHEDULE FOR MAX. SPACING

EXISTING CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. SEE ANCHOR SCHED. BASED ON TYPE OF STRUCTURE (TYP. TOP AND BOTTOM)

C1 CONNECTION TYPE REFERENCE ANCHOR SCHEDULE FOR MAX. SPACING

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE DATE 11/16/2000 BY *Helmut A. Meker* PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 00-0809-03

C1 CONNECTION TYPE REFERENCE ANCHOR SCHEDULE FOR MAX. SPACING

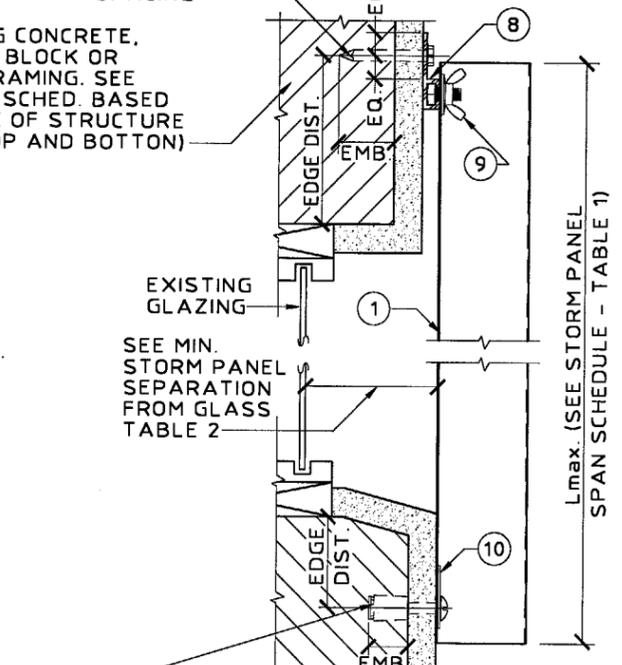
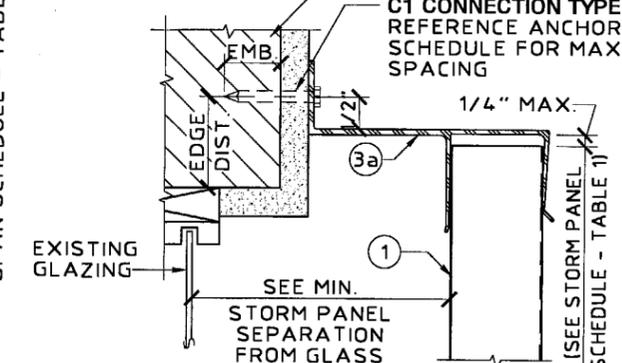
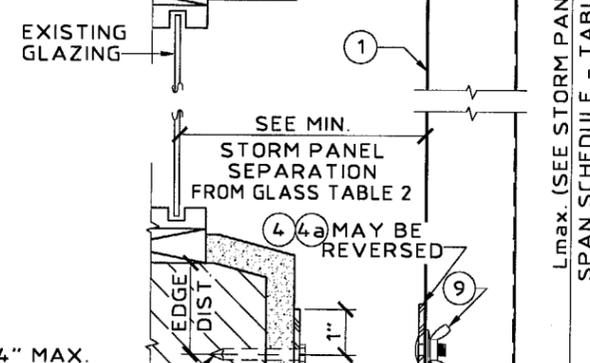
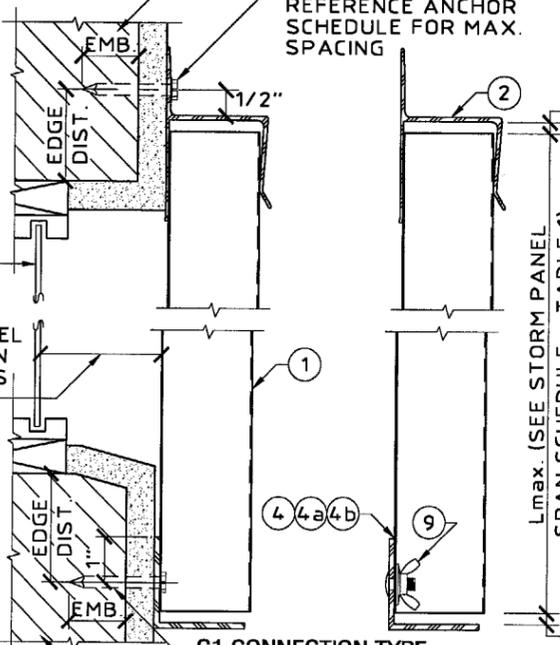
EXISTING CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. SEE ANCHOR SCHED. BASED ON TYPE OF STRUCTURE (TYP. TOP AND BOTTOM)

EXISTING CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. SEE ANCHOR SCHED. BASED ON TYPE OF STRUCTURE

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EXISTING CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. SEE ANCHOR SCHED. BASED ON TYPE OF STRUCTURE (TYP. TOP AND BOTTOM)

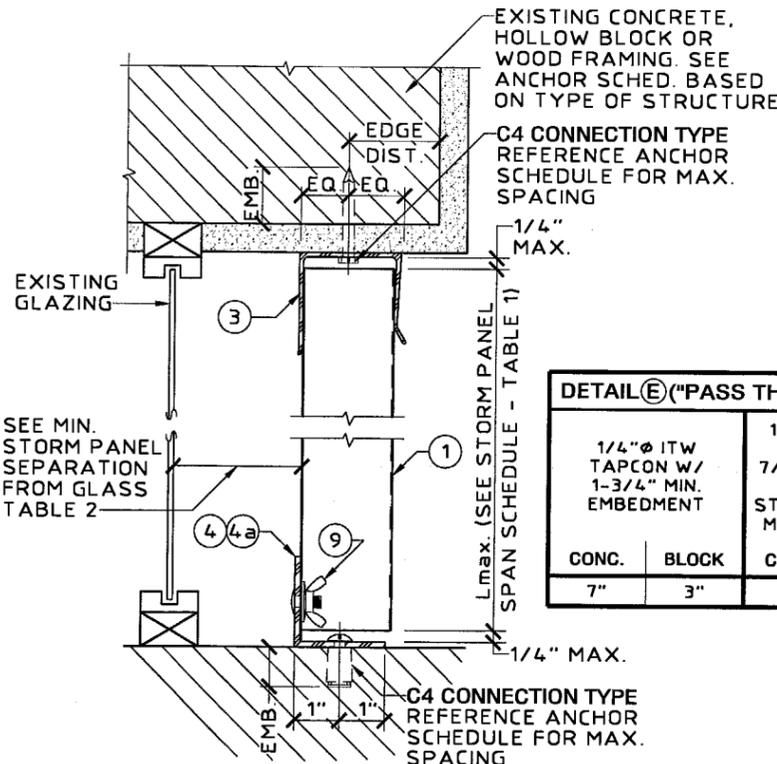
EXISTING GLAZING  
SEE MIN. STORM PANEL SEPARATION FROM GLASS TABLE 2



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

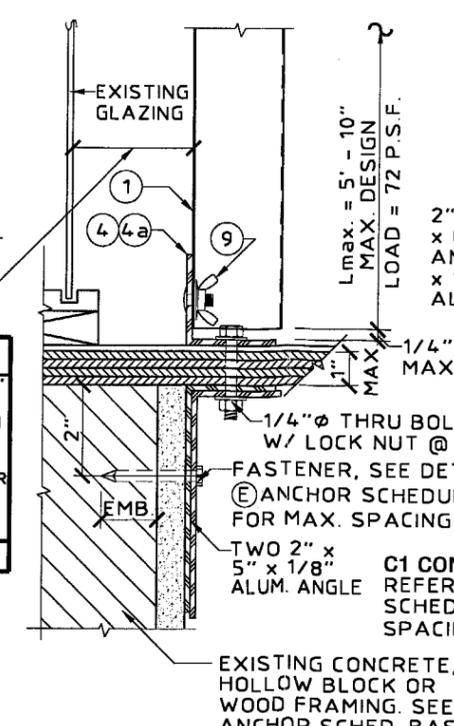
**B BUILD-OUT MOUNT SECTION**  
SCALE: 3" = 1' - 0"

**C "F" TRACK/DIRECT MOUNT SECTION**  
SCALE: 3" = 1' - 0"



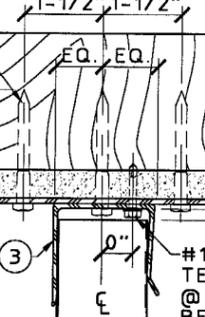
SEE MIN. STORM PANEL SEPARATION FROM GLASS TABLE 2

DETAIL (E) ("PASS THRU" SEC.) ANCHOR SCHEDULE				
1/4" Ø ITW TAPCON W/ 1-3/4" MIN. EMBEDMENT		1/4" Ø POWERS CALK-IN W/ 7/8" EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW		1/4" Ø x MIN. 2-1/2" LONG WOOD LAG SCREW W/ MINIMUM 1-3/4" EMBEDMENT SHEAR PARALLEL OR PERPENDICULAR TO WOOD GRAIN
CONC.	BLOCK	CONC.	BLOCK	WOOD
7"	3"	10"	4"	12"



THREE 1/4" Ø x MIN. 4" LONG WOOD LAG SCREWS @ 24" O.C. MAX. WITH 1-3/4" EMBEDMENT INTO WOOD MEMBER

2" x 5" x 1/8" x CONT. ALUM. ANGLE OR 4" x 1/4" x CONT. ALUM. FLAT



WOOD ROOF TRUSS OR FRAMING MEMBER SHALL BE PERPENDICULAR TO THE PANEL FACE  
EXISTING STUCCO FINISH OR PLYWOOD SOFFIT  
1/4" MAX.

#14 x 3/4" TEK SCREW @ 12" O.C. BETWEEN TRUSSES  
Lmax. = 8' - 4" MAX. DESIGN LOAD = 72 P.S.F.

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

**E "PASS THRU" SECTION**  
SCALE: 3" = 1' - 0"

**F CEILING MOUNT / BUILD OUT SECTION**  
SCALE: 3" = 1' - 0"



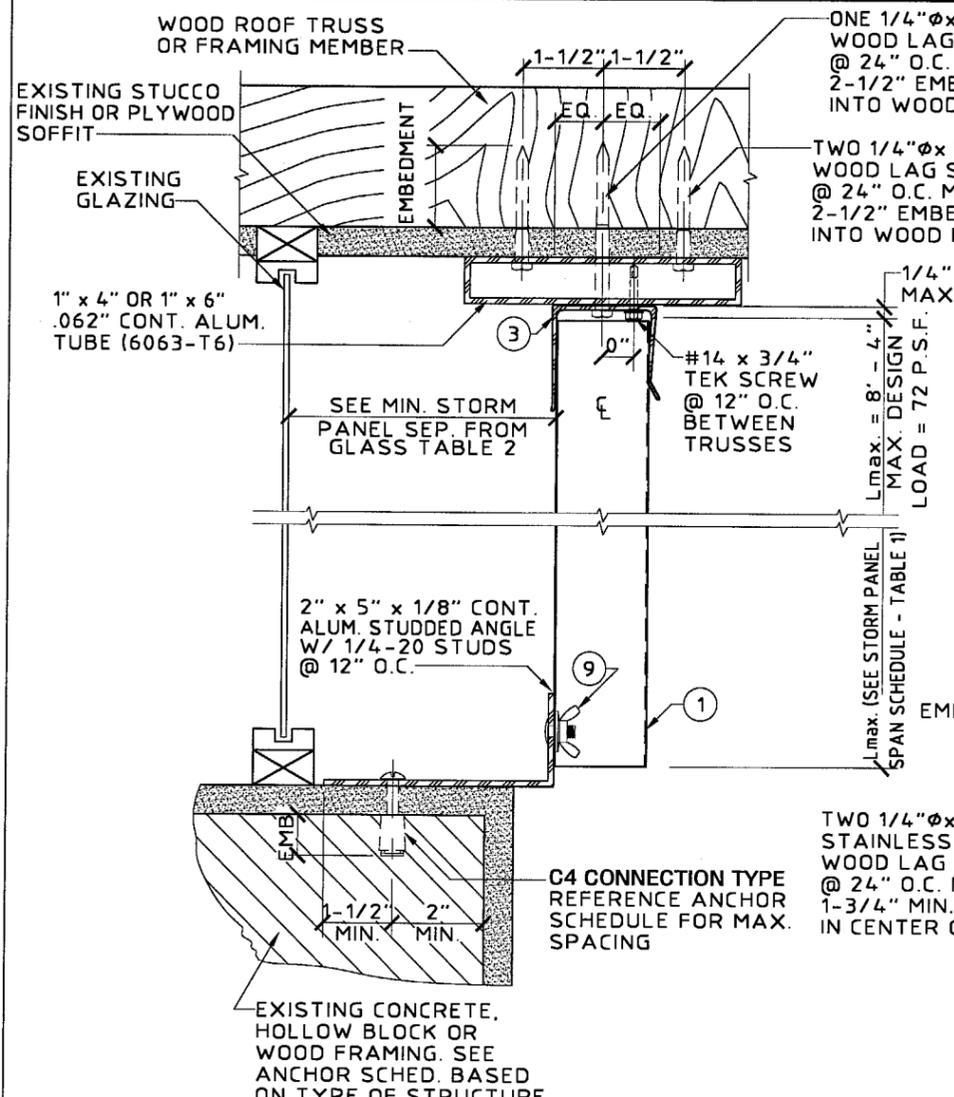
**KNEZEVICH & ASSOCIATES, INC.**  
CONSULTING ENGINEERS • PRODUCT TESTING  
1260 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322  
TEL: (954) 382-2800 • FAX: (954) 382-2888 • FLORIDA COA #3205  
WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM  
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**ALUMINUM STORM PANEL**  
*Span & Country INDUSTRIES, INC.*  
400 WEST McNAB ROAD • (800) 432-5019  
FT. LAUDERDALE, FL 33309

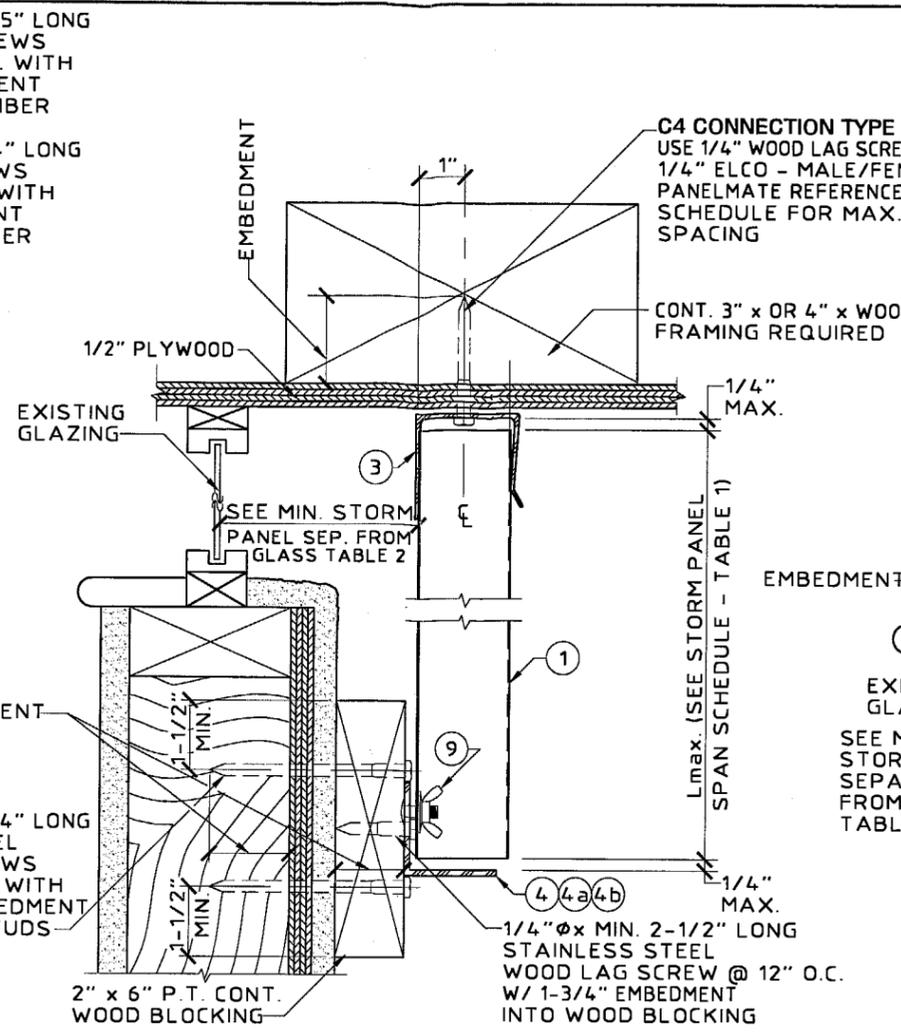
NO.	DATE	DESCRIPTION
1	10/26/00	AS

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

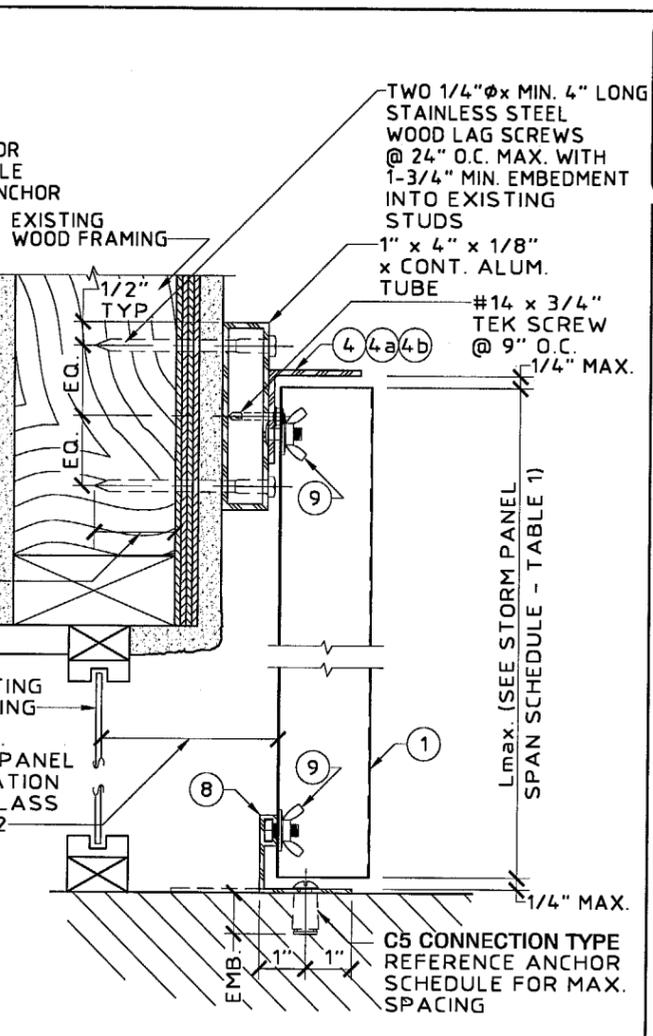
DATE: 08/01/00  
SCALE: AS NOTED  
DRAWN BY: AV  
DESIGN BY: VJK  
CHECKED BY: VJK  
DRAWING NO: 00-159  
SHEET 2 OF 6



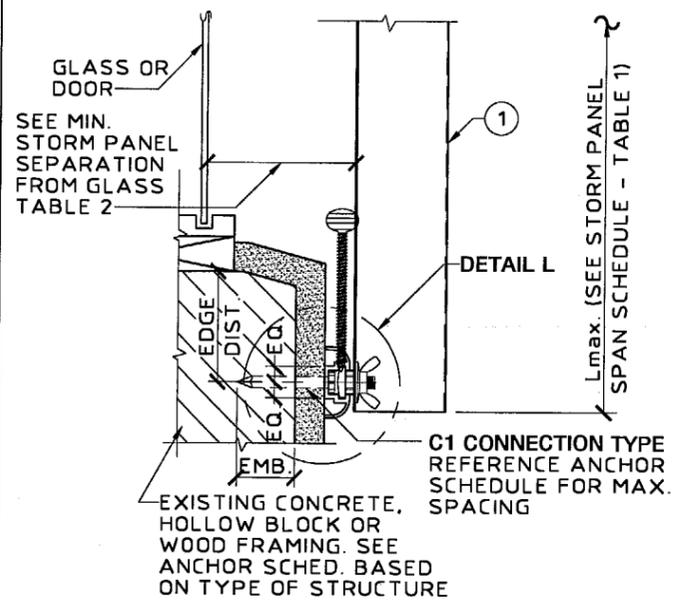
**G BUILD-DOWN / BUILD-OUT SECTION**  
SCALE: 3" = 1' - 0"



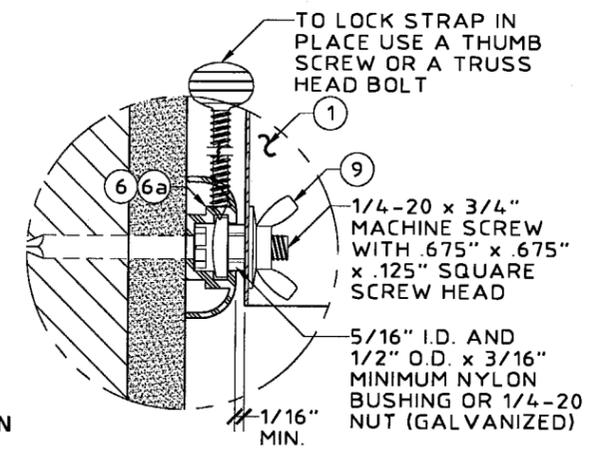
**H CEILING/BUILD-OUT MOUNT SECTION**  
SCALE: 3" = 1' - 0"



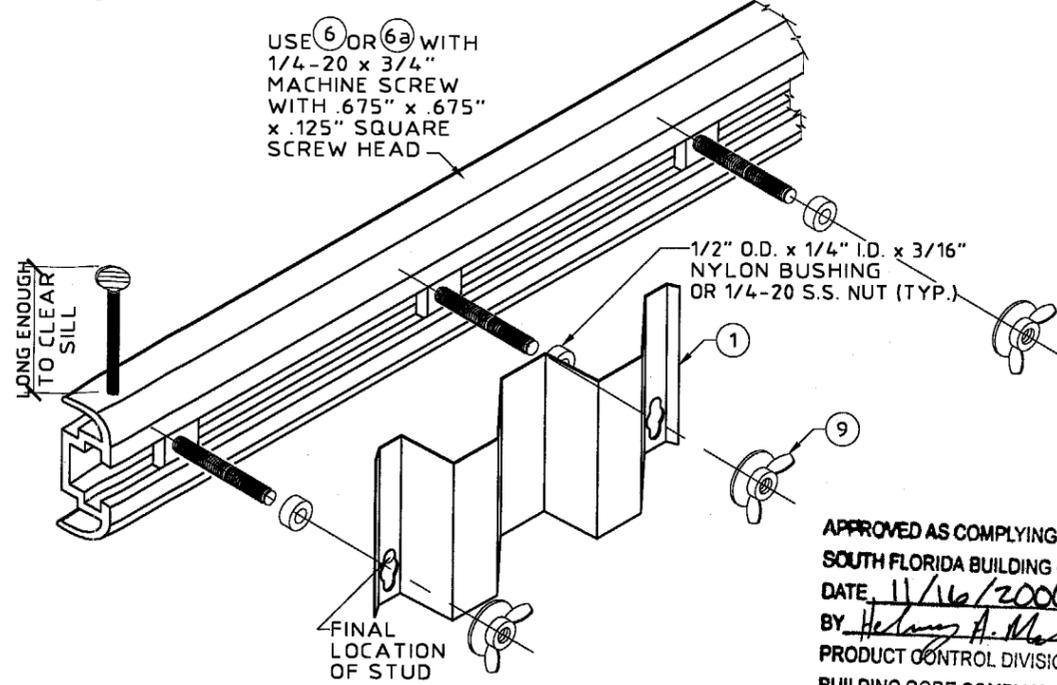
**J BUILD-OUT/FLOOR MOUNT SECTION**  
SCALE: 3" = 1' - 0"



**K C-TRACK ASSEMBLY - INSIDE MOUNT**  
SCALE: 3" = 1' - 0"



**L C-TRACK ASSEMBLY - (BLOW UP)**  
SCALE: HALF SIZE



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

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE: 11/16/2000  
BY: *Herbert A. Mark*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 00-0809-03



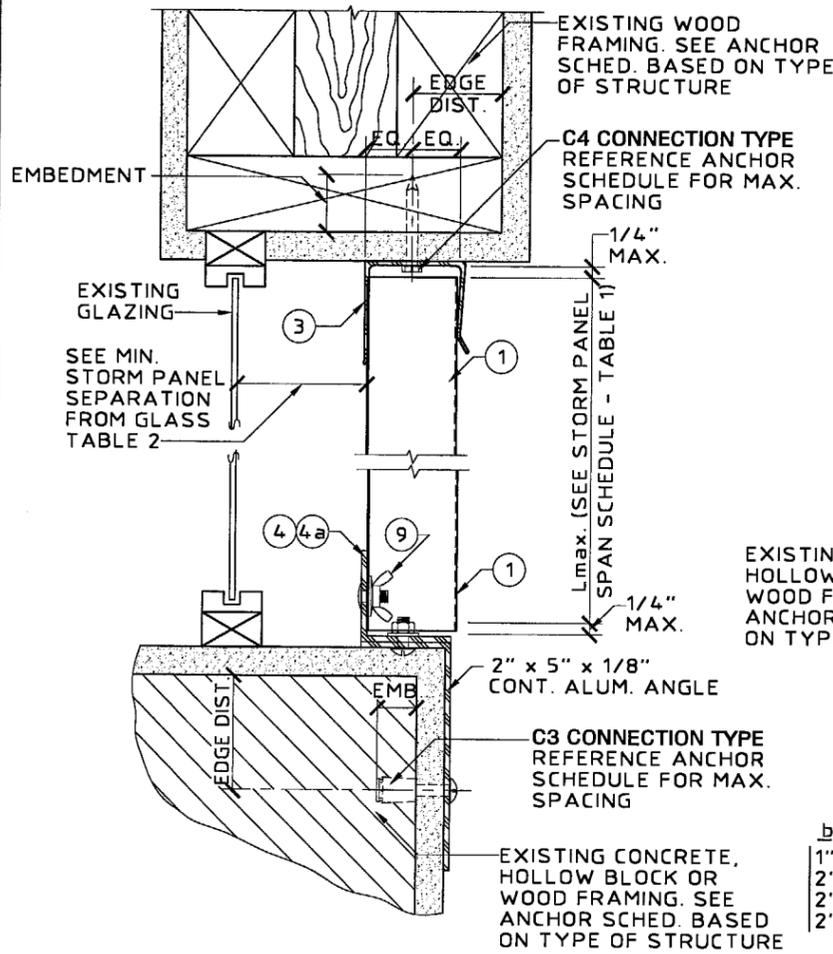
**KNEZEVICH & ASSOCIATES, INC.**  
CONSULTING ENGINEERS • PRODUCT TESTING  
1880 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322  
TEL: (954) 382-2800 • FAX: (954) 382-2888 • FLORIDA COA #3205  
WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: K@KNEZEVICH.COM  
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**0-050" ALUMINUM STORM PANEL**  
*Penn & Country*  
**INDUSTRIES, INC.**  
400 WEST McNAB ROAD • (800) 432-5019  
FT. LAUDERDALE, FL 33309

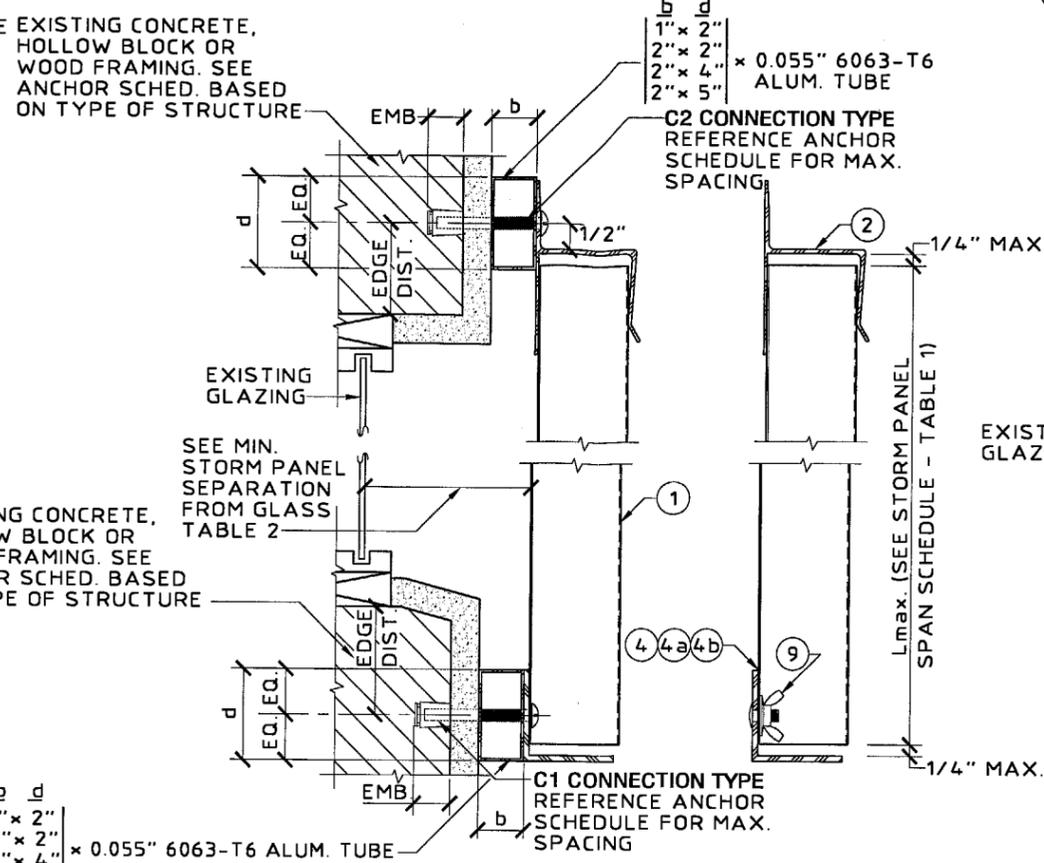
REV	DATE	BY	DESCRIPTION
1	10/26/00	AS	GENERAL REVISION

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

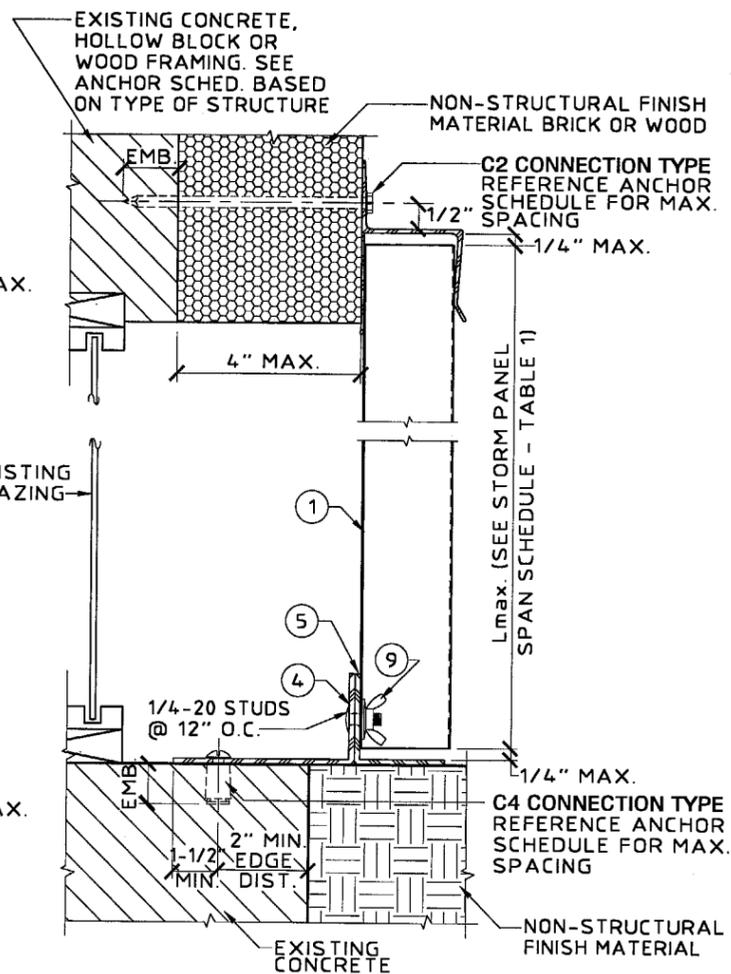
OCT 26 2000  
date 08/01/00  
scale AS NOTED  
design by VJK  
checked by VJK  
drawing no. 00-159  
sheet 3 of 6



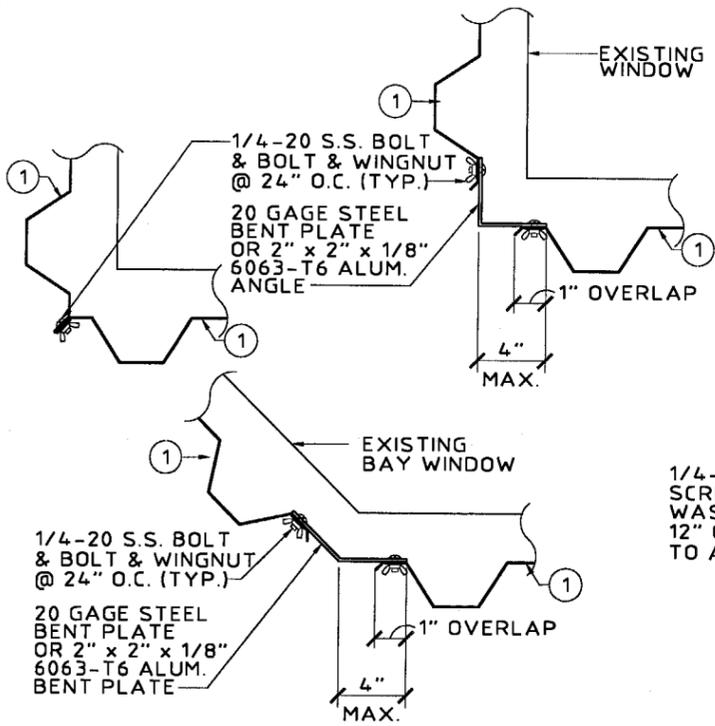
**N** WOOD CEILING/ INSIDE MOUNT SECTION  
SCALE: 3" = 1'-0"



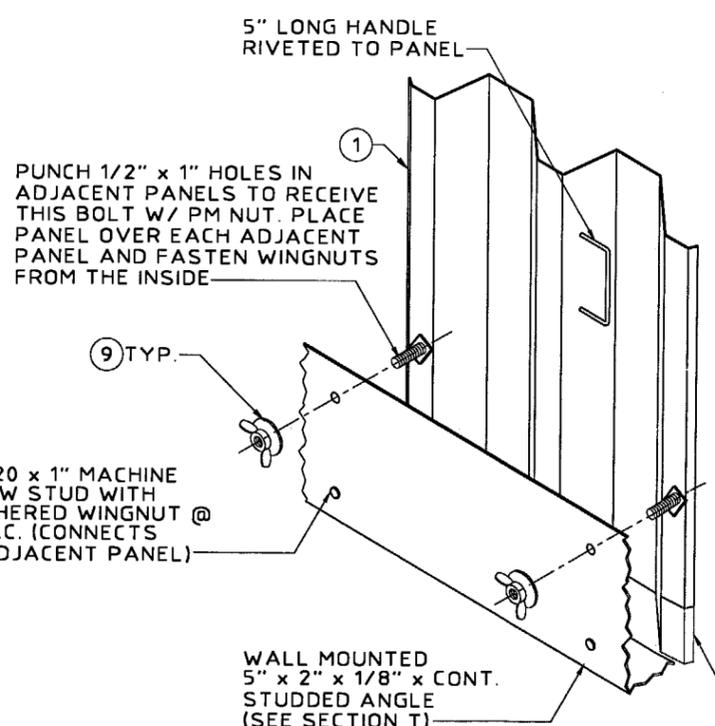
**P** WALL MOUNT SECTION  
SCALE: 3" = 1'-0"



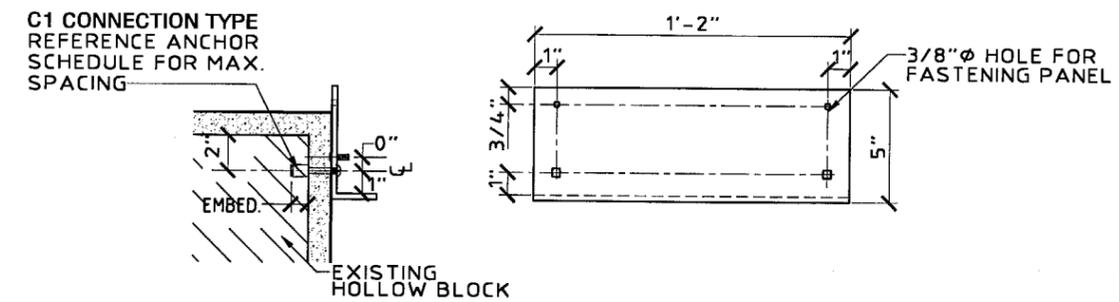
**Q** WALL MOUNT / BUILD OUT SECTION  
SCALE: 3" = 1'-0"



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



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

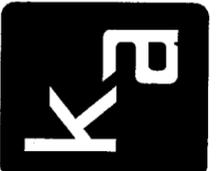


(MAX. PANEL HEIGHT = 7'-4" & MAX. DESIGN LOAD ± 72.00 P.S.F.)

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

**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.

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE 11/16/2000  
BY *Helmut H. Mark*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 00-0809-03



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WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM  
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**ALUMINUM STORM PANEL**  
*Pain & Country*  
**INDUSTRIES, INC.**  
400 WEST McNAB ROAD • (800) 432-5019  
FT. LAUDERDALE, FL 33309

REVISIONS	
NO.	DESCRIPTION
1	10/26/00 AS

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

OCT 26 2000  
date 08/01/00  
scale AS NOTED  
design by VJK  
checked by VJK  
drawing no. 00-159  
sheet 4 of 6



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		COLUMN 2	
			MIN. SEP. FOR ALL INSTALLATIONS LESS THAN 30' ABOVE GRADE (INCHES)		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		
	80.0	9-0	5	3-1/4		
		4-0	3	1-1/2		
	90.0	8-4	3	3		
		4-0	3	1-1/2		
	100.0	7-9	3	2-3/4		
		4-0	3	1-1/2		
	110.0	7-3	3	2-1/2		
		4-0	3	1-1/2		
	120.0	6-9	3	2-3/8		
		3-0	3	1-1/2		
		6-4	3	2-1/4		

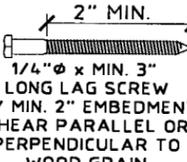
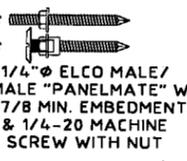
**TABLE 1 NOTES:**

1. DETERMINE BOTH THE POSITIVE AND THE NEGATIVE WIND LOADS. CHECK THEIR RESPECTIVE SPANS AND USE THE LESSER 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"
	160.0	4'-1"	3'-9"
	170.0	3'-10"	3'-6"
	180.0	3'-8"	3'-4"
	190.0	3'-5"	3'-1"
	200.0	3'-3"	3'-0"
	210.0	3'-1"	2'-10"
	220.0	3'-0"	2'-8"
	230.0	2'-10"	2'-7"

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. 3/4" EDGE DISTANCE														
			SPANS UP TO 6' - 0" (SEE NOTE 1)					SPANS UP TO 8' - 8" (SEE NOTE 1)					SPANS UP TO 12' - 0" (SEE NOTE 1)				
			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
WOOD	 1/4" Ø x MIN. 3" LONG LAG SCREW W/ MIN. 2" EMBEDMENT SHEAR PARALLEL OR PERPENDICULAR TO WOOD GRAIN	40.0	14	14	14	14	13	14	14	14	10	9	14	14	14	7	7
		52.0	14	14	14	11	10	14	14	14	8	7	14	14	13	5	5
		62.0	14	14	14	9	9	14	14	14	6	6	14	13	9	4	4
		78.0	14	14	14	7	7	14	14	11	5	4	14	10	7	4	4
		100.0	14	14	14	6	5	14	10	7	4	4	14	10	7	4	4
	 1/4" Ø ELCO MALE/FEMALE "PANELMATE" W/ 1-7/8 MIN. EMBEDMENT & 1/4-20 MACHINE SCREW WITH NUT	40.0	14	14	14	14	14	14	14	14	14	13	14	14	14	11	10
		52.0	14	14	14	14	14	14	14	14	12	10	14	14	12	8	7
		62.0	14	14	14	14	12	14	14	14	10	9	14	13	8	7	6
		78.0	14	14	14	11	10	14	14	10	8	7	14	9	7	6	5
		100.0	14	14	13	9	8	14	9	7	6	5	14	9	7	6	5
	 7/16" Ø WOOD BUSHING W/ 5/8" MIN. EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW	40.0	14	14	14			14	14	14			11	11	8		
		52.0	14	14	14			12	12	10			8	8	4		
62.0		14	14	14			10	10	6			7	4	3			
78.0		11	11	9			8	6	4			6	3				
100.0		9	9	5			6	3				6	3				

**ANCHOR NOTES:**

1. SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1.
2. ENTER ANCHOR SCHEDULE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
3. SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
4. EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE.
5. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
7. WHERE EXISTING STRUCTURE IS WOOD FRAMING, WOOD FRAMING CONDITIONS VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
8. WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" x 4" (MIN.) WOOD STUD. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING. WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
9. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT), U.O.N.
10.  DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
11. \* DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT.



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APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
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 BY: *Helmut A. Mader*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 00-0809.03

OCT 26 2000

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 checked by: VJK  
 drawing no.: 00-159  
 sheet 6 of 6