



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

Ocean Shutters Manufacturing, Inc.
4900-B N.E. 11th Avenue
Fort Lauderdale ,FL 33334

Your application for Notice of Acceptance (NOA) of:

6.8" Accordion 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.: 00-0424.03
EXPIRES: 03/24/2003

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

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

APPROVED: 09/26/2000

Ocean Shutters Manufacturing, Inc.

ACCEPTANCE No. : 00-0424.03

APPROVED : 09/26/2000

EXPIRES : 03/24/2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This revises the Notice of Acceptance No. 00-0211.06, which was issued on March 24, 2000. It approves an Aluminum Extruded 6.8" Accordion 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 Aluminum Extruded 6.8" Accordion Shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 00-910, titled "6.8" Accordion Shutter", prepared by Knezevich & Associates, Inc., dated December 8, 1998, last revision #2 dated April 13, 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 Aluminum Extruded 6.8" Accordion Shutter and its components shall be installed in strict compliance with the approved drawings.

5. 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".

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

Ocean Shutters Manufacturing, Inc.

ACCEPTANCE No. : 00-0424.03

APPROVED : 09/26/2000

EXPIRES : 03/24/2003

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 time. 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



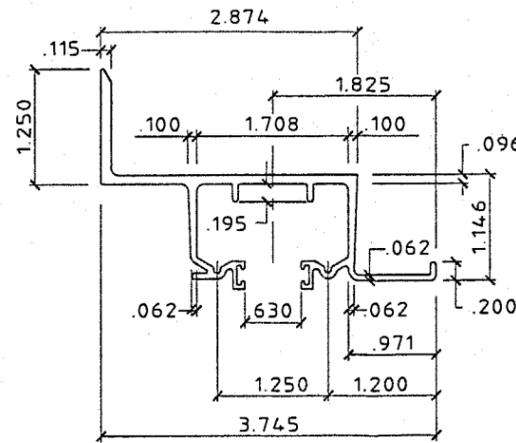
Helmy A. Makar, P.E.- Product Control Examiner
Product Control Division

NOTES:

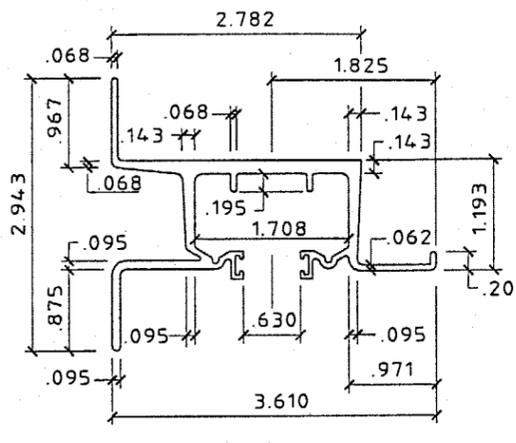
1. THIS ACCORDION SHUTTER SYSTEM IS DESIGNED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE, MIAMI-DADE COUNTY 1994 EDITION.
2. POSITIVE AND NEGATIVE DESIGN PRESSURE CALCULATIONS SHALL BE PERFORMED FOR SPECIFIC JOBS IN ACCORDANCE WITH ASCE 7-88 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES". TABLES MUST BE REFERENCED AT APPROPRIATE DESIGN LOADS.
3. ALL EXTRUSIONS SHOWN SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
4. EACH SHUTTER ASSEMBLY SHALL BE PERMANENTLY LABELED AT THE BOTTOM END OF THE LOCKING SLAT AS FOLLOWS:

OCEAN SHUTTERS MANUFACTURING, INC.
FT. LAUDERDALE, FLORIDA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED

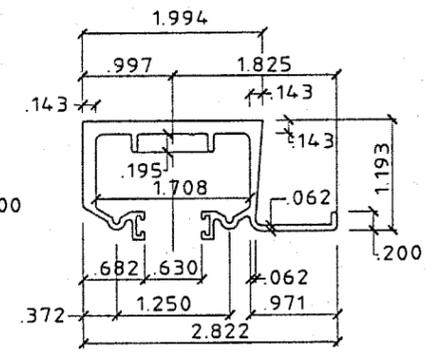
5. ALL BOLTS AND WASHERS SHALL BE STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N. POP RIVETS SHALL BE 3/16" ϕ 5052 ALUMINUM ALLOY.
6. THE DETAILS AND SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED FOR IMPACT, CYCLIC AND UNIFORM STATIC AIR PRESSURE IN CONFORMANCE WITH DADE COUNTY PROTOCOLS PA 201, 202, AND 203.
7. DESIGN IS BASED ON CONSTRUCTION TESTING CORPORATION (C.T.C.) TEST REPORT No. 98-050.
8. FLOORS TRACKS MAY BE REMOVABLE AT NON-STACKING LOCATIONS. USE CALK-IN REMOVABLE ANCHORS.
9. ALL SHUTTERS SHALL HAVE A LOCKING MECHANISM CONSISTING OF THUMBSCREW OR PUSH LOCK AT CENTER OR SIDE CLOSURE.
10. TOP AND BOTTOM DETAILS MAY BE INTERCHANGED AS FIELD CONDITIONS REQUIRE.



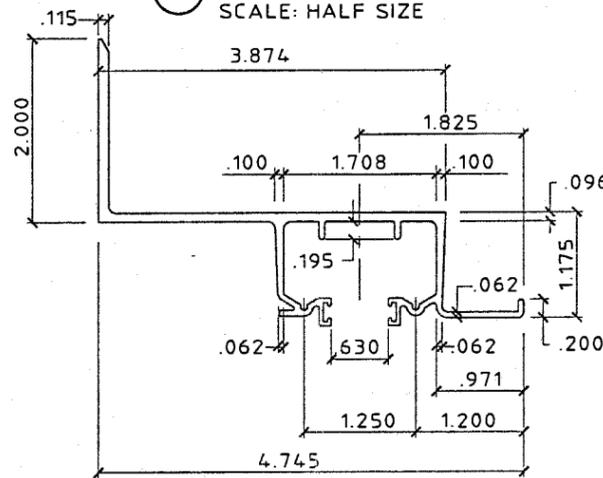
1 WALL HEADER
SCALE: HALF SIZE



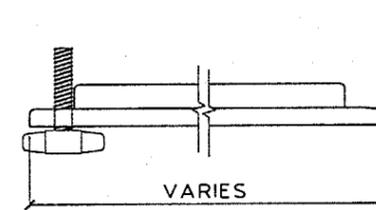
2 WALL HEADER
SCALE: HALF SIZE



3 HEADER
SCALE: HALF SIZE

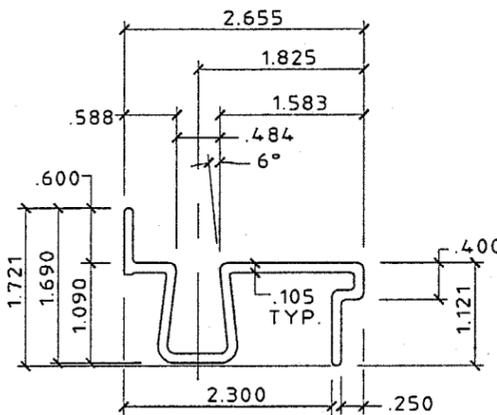


4 BUILD OUT WALL HEADER
SCALE: HALF SIZE

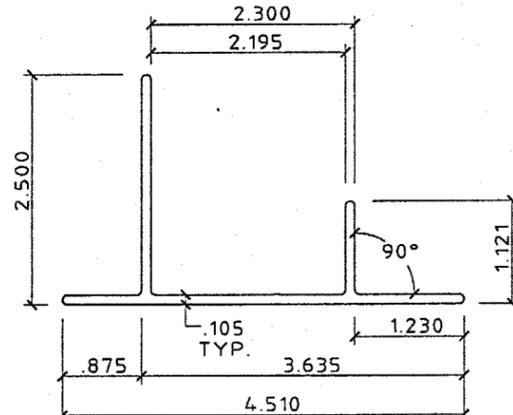


15 ALUMINUM OR PVC LOCK PIN
(NOT REQUIRED)
SCALE: HALF SIZE

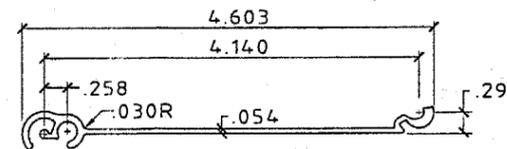
WHERE LOCK PINS ARE USED, THEY ARE ENGAGED IN THE STACKED POSITION AND ARE NOT REQ'D IN THE CLOSED POSITION.



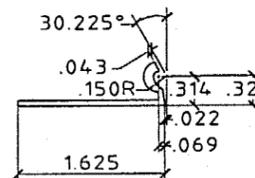
5 BASE SILL
SCALE: HALF SIZE



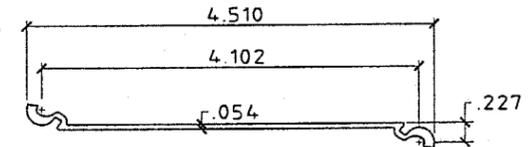
6 BASE TRACK
SCALE: HALF SIZE



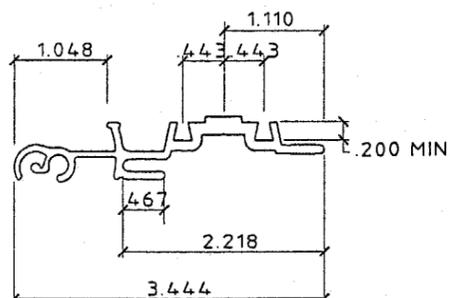
7 TYP. SLAT
SCALE: HALF SIZE



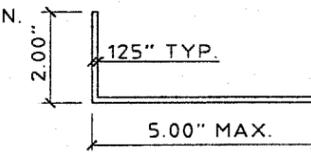
8 STARTER
SCALE: HALF SIZE



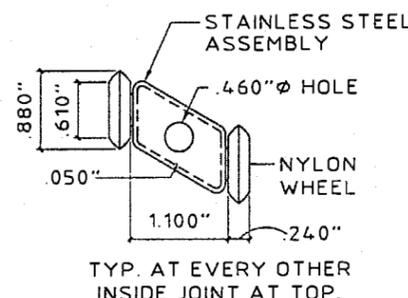
9 ALT. SLAT
SCALE: HALF SIZE



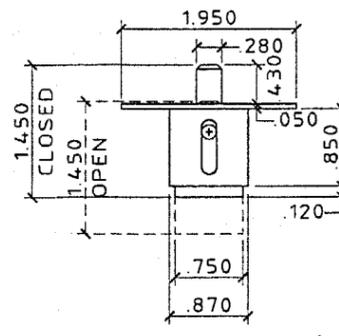
10 MALE/FEMALE LOCK
SCALE: HALF SIZE



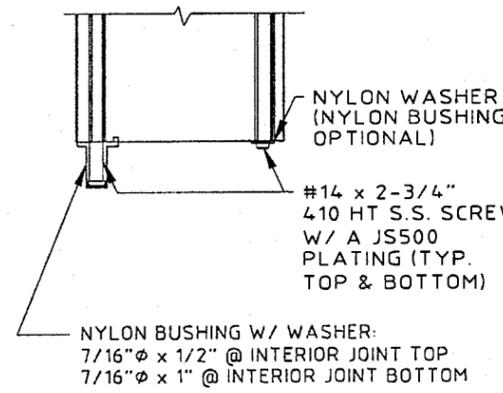
11 ANGLE
SCALE: 3" = 1' - 0"



12 ROLLER ASSEMBLY
SCALE: HALF SIZE



13 BRASS PUSH LOCK
SCALE: HALF SIZE



14 BUSHING ASSEMBLY DETAIL
SCALE: HALF SIZE



KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING
 1260 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
 TEL: (954) 382-2800 • FAX: (954) 382-2889 • FLORIDA COA #3205
 WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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 6.8 SYSTEM LICENSED BY SOUTHERN SHUTTER ASSOCIATION

6.8" ACCORDION SHUTTER
 4900B N.E. 11th AVE.
 FT. LAUDERDALE, FL 33334
 (954) 489-9797
6.8" Accordion Shutters
 MANUFACTURING, INC.

no.	date	by	description
1	03/19/99	VJK	COUNTY COMMENTS
2	04/13/00	VJK	GENERAL REVISIONS

SSA I.D. # 04130098254D

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

APR 13 2000
 date 12/08/98
 AS NOTED drawn by MC
 design by VJK checked by VJK
 drawing no. 00-910
 sheet 1 of 6

00-0424.03



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 A.S. SYSTEM LICENSED BY SOUTHERN SHUTTER ASSOCIATION

6.8" ACCORDION SHUTTER
 4900B N.E. 11th AVE.
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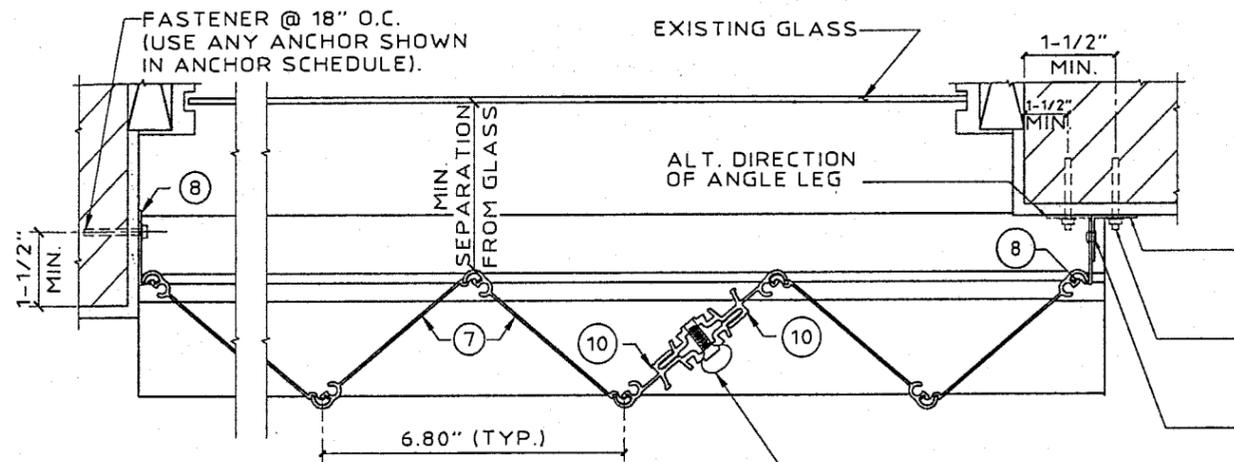
REVISIONS	
no.	description
1	03/19/99 VJK COUNTY COMMENTS
2	04/13/00 VJK GENERAL REVISIONS

SSA I.D.# 04130098254D

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

APR 13 2000

date	12/08/98
scale	AS NOTED
drawn by	MC
design by	VJK
checked by	VJK
drawing no.	00-910
sheet	2 of 6



TYPICAL PLAN VIEW
 SCALE: 3" = 1'-0"

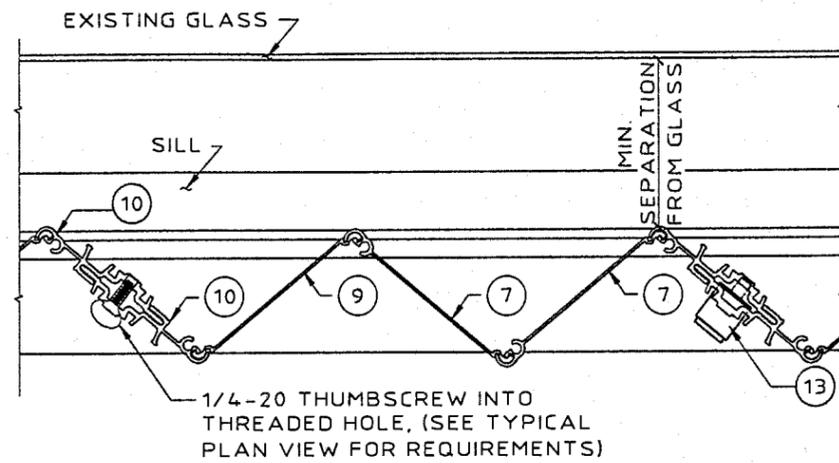
MIN. 0.093" THICK 6063-T6 ALUM. ANGLE 1" x 1" MIN. TO 2" x 5" MAX.

FASTENER @ 18" O.C. (USE ANY ANCHOR SHOWN IN ANCHOR SCHEDULE).

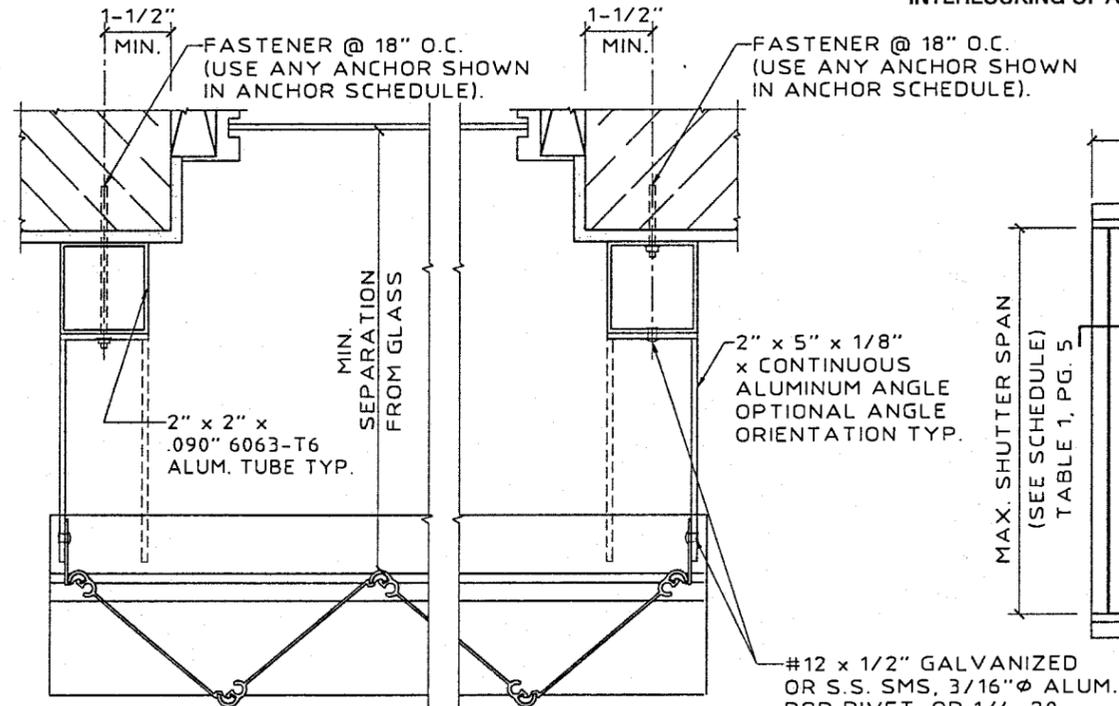
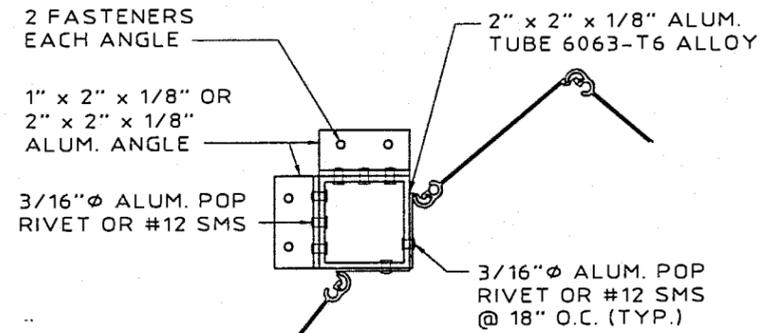
#12 x 1/2" GALVANIZED OR S.S. SMS, 3/16" Ø ALUM. POP RIVET, OR 1/4-20 MACHINE BOLT & NUT @ 18" O.C.

1/4-20 THUMBSCREW INTO THREADED HOLE. LOCATED AT 1/3 TO 1/2 DISTANCE FROM BOTTOM OF SHUTTER FOR BLADES ≤ 8'-3". USE TWO THUMBSCREWS ON BLADES > 8'-3". ONE AT 1/3 AND ONE AT 2/3 FROM BOTTOM OF BLADE, TYPICAL. FOR LOCKING SHUTTERS, A BRASS PUSH LOCK MAY BE SUBSTITUTED

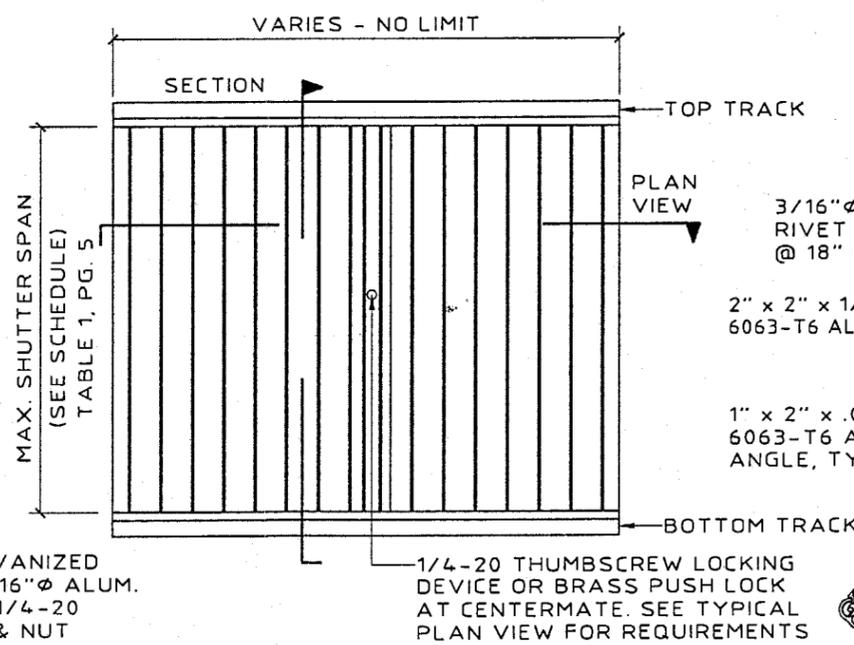
NOTE:
 STARTERS (8) MUST BE LOCATED TO INSURE FULL DEPLOYMENT OF SHUTTER AND COMPLETE INTERLOCKING OF ADJACENT BLADES.



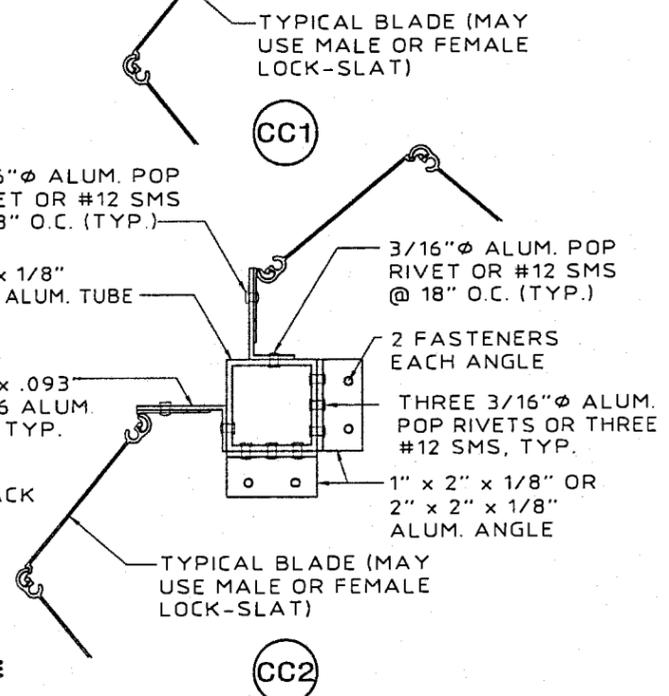
MULTIPLE SHUTTER ASSEMBLY
 SCALE: 3" = 1'-0"



SIDE CLOSURE OPTIONS
 SCALE: 3" = 1'-0"



TYPICAL ELEVATION
 N.T.S.



TYPICAL CORNER CLOSURE DETAILS
 SCALE: 3" = 1'-0"

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE 09/26/2000
 BY *William A. Mader*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-0424.03



KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING
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 TEL: (954) 382-2800 • FAX: (954) 382-2889 • FLORIDA COA #3205
 WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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 (S.B. SYSTEM LICENSED BY SOUTHERN SHUTTER ASSOCIATION)

6" ACCORDION SHUTTER
 4900B N.E. 11th AVE.
 FT. LAUDERDALE, FL 33334
 (954) 489-9787
 Clear Shutter
 MANUFACTURING, INC.

REVISIONS	
no.	description
1	10/19/99 VJK COUNTY COMMENTS
2	04/13/00 VJK GENERAL REVISIONS

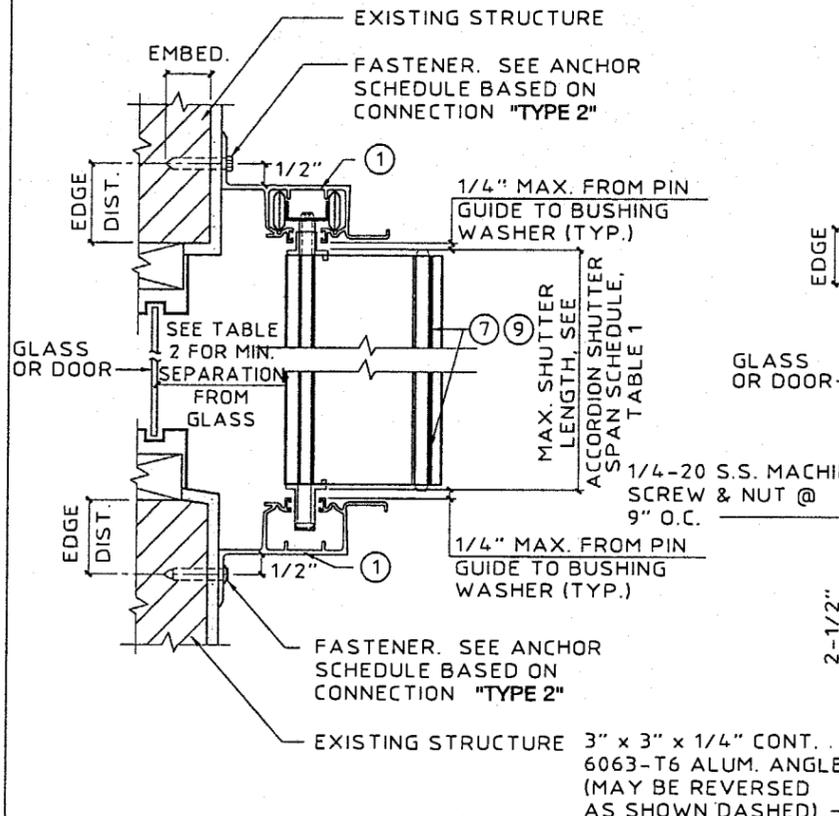
SSA I.D.# 04130098254D

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

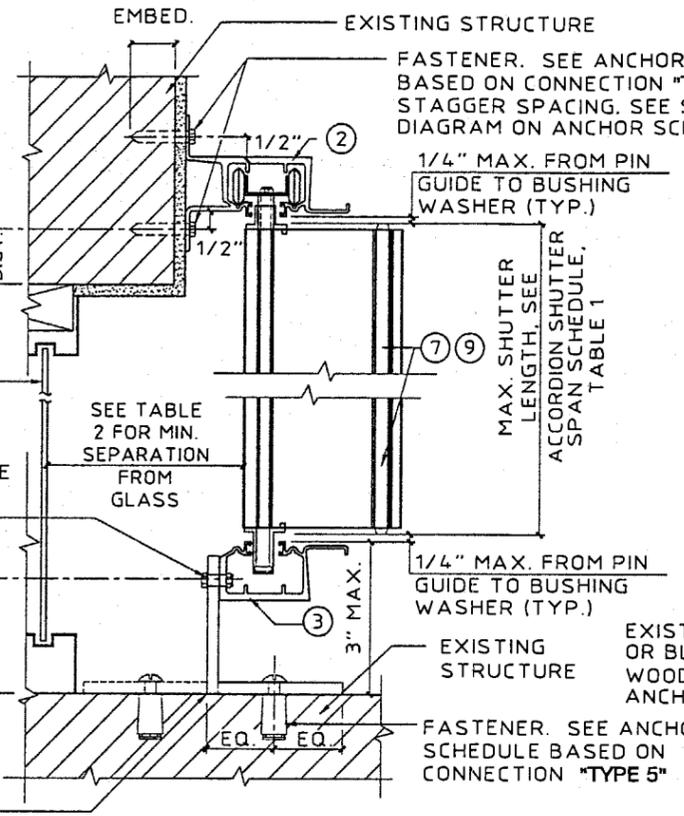
APR 13 2000

date 12/08/98
 scale AS NOTED
 design by VJK
 checked by VJK
 drawn by MC

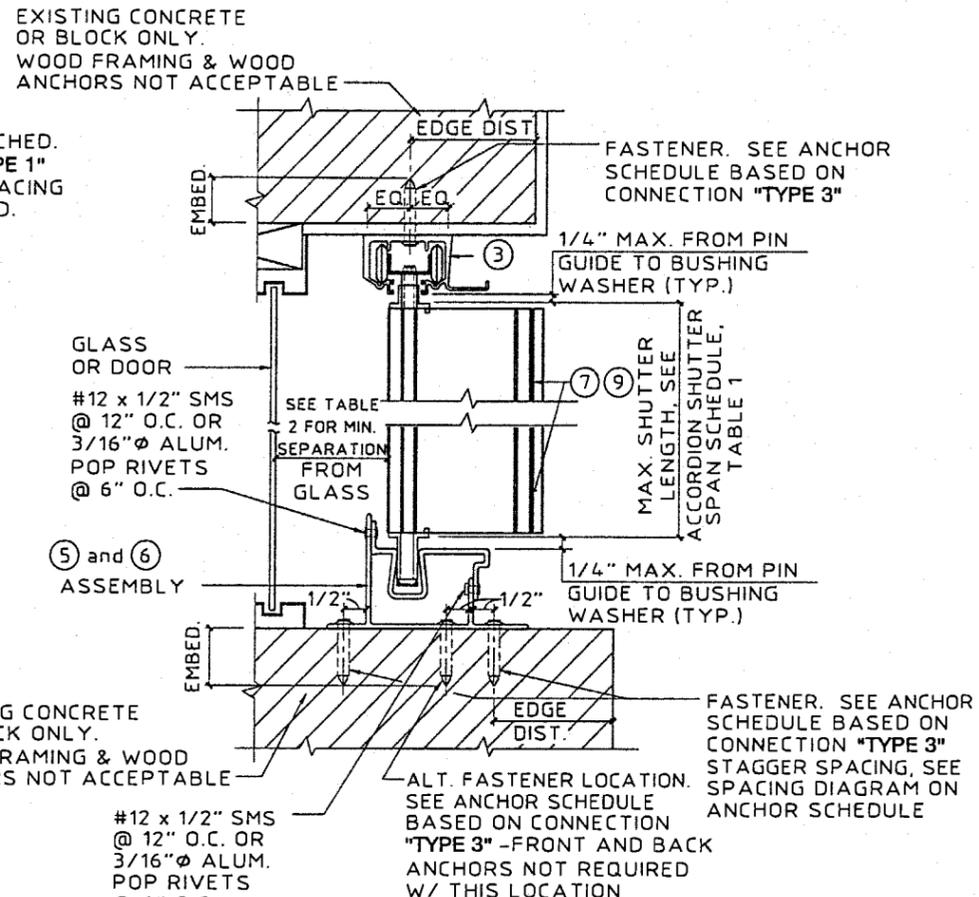
drawing no.
00-910
 sheet 3 of 6



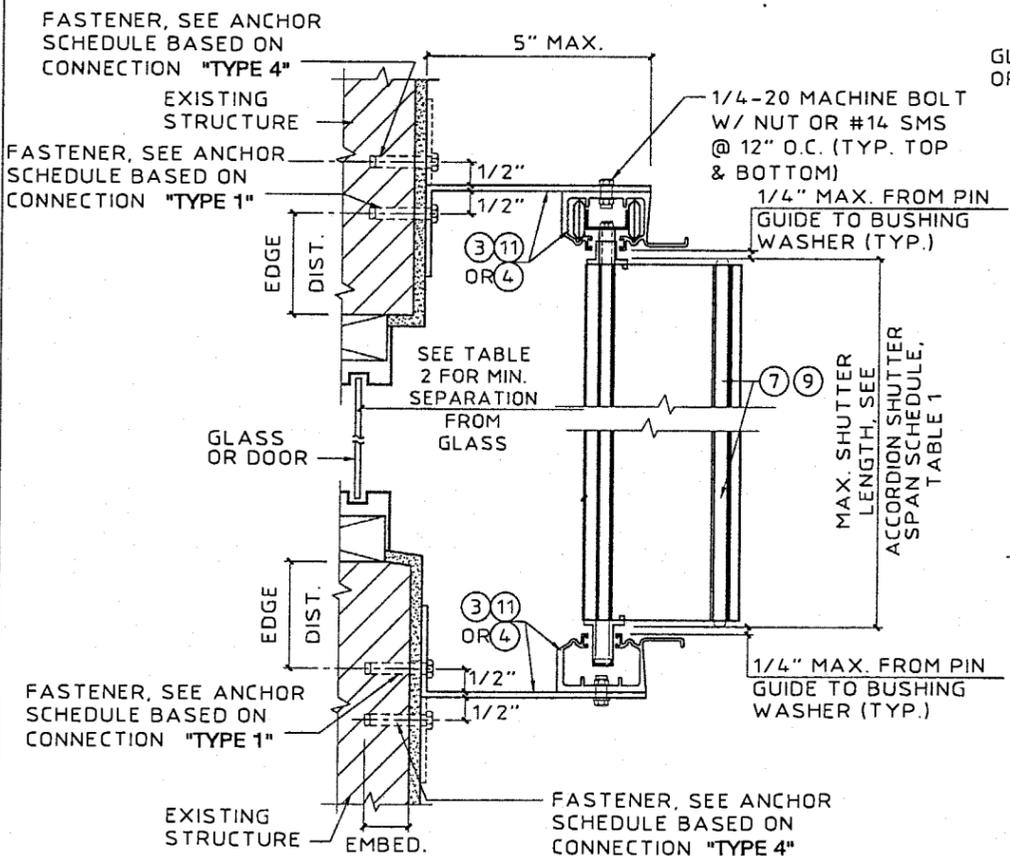
A WALL MOUNT SECTION
 SCALE: 3" = 1'-0"



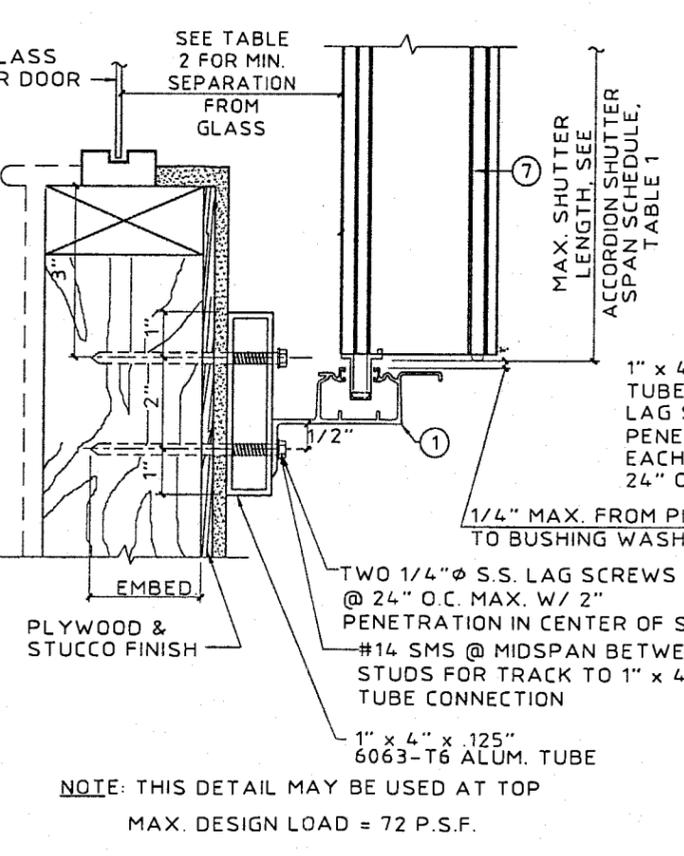
B WALL MOUNT SECTION
 SCALE: 3" = 1'-0"



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

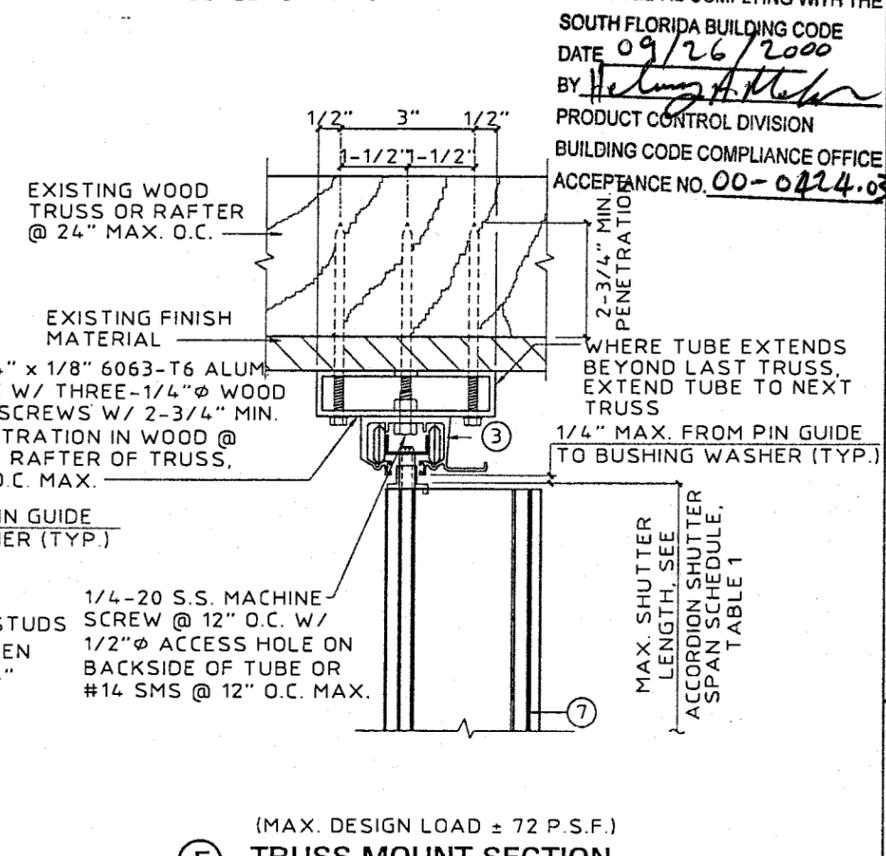


D BUILD OUT MOUNT SECTION
 SCALE: 3" = 1'-0"



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

NOTE: THIS DETAIL MAY BE USED AT TOP
 MAX. DESIGN LOAD = 72 P.S.F.



F TRUSS MOUNT SECTION
 SCALE: 3" = 1'-0"

(MAX. DESIGN LOAD ± 72 P.S.F.)



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 6.8 SYSTEM LICENSED BY SOUTHERN SHUTTER ASSOCIATION

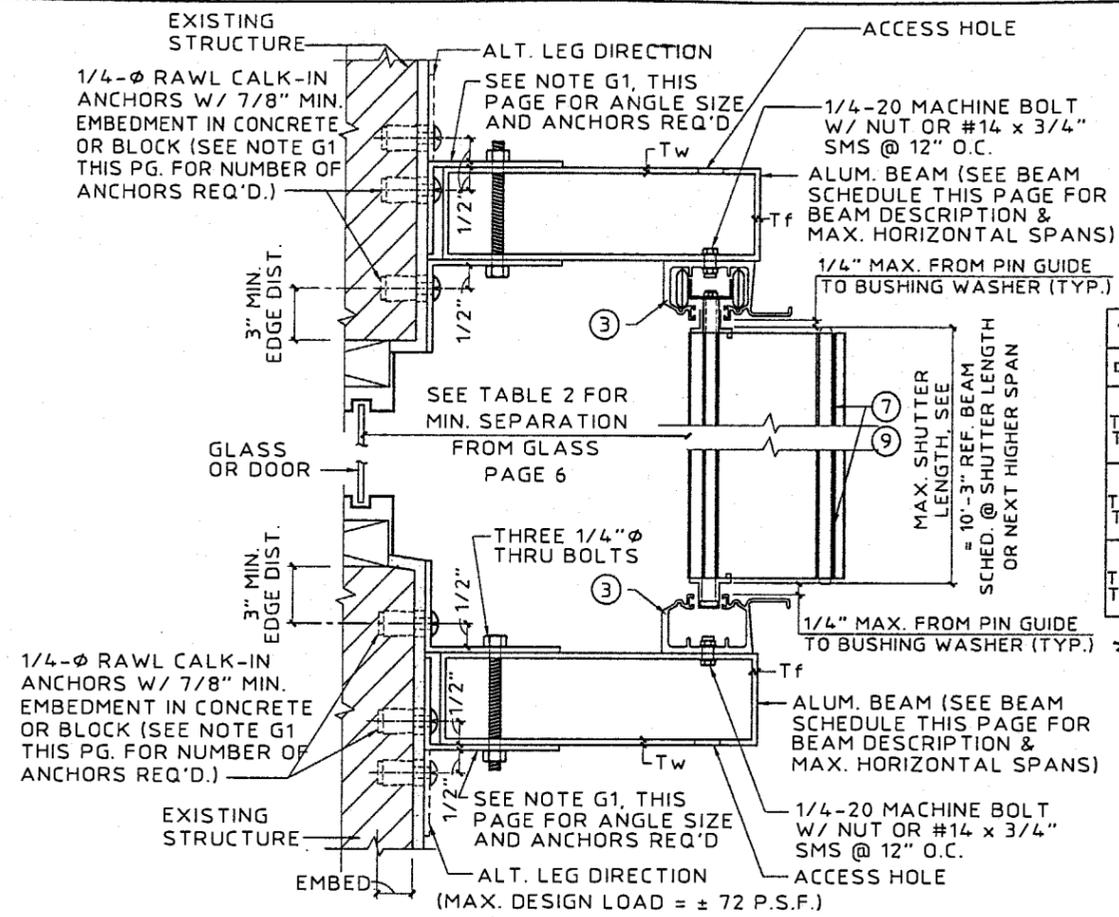
6.8" ACCORDION SHUTTER
 4900B N.E. 11th AVE.
 FT. LAUDERDALE, FL 33334
 (954) 489-9797
see Shutters
 MANUFACTURING, INC.

no.	date	by	description
1	03/19/99	VJK	COUNTY COMMENTS
2	02/19/00	VJK	GENERAL REVISIONS

SSA I.D.# 04130098254D

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

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE 09/26/2000
 BY *Helmut A. Miller*
 date 12/08/98
 scale AS NOTED drawn by MC
 design by VJK checked by VJK
 drawing no. 00-910
 sheet 4 of 6

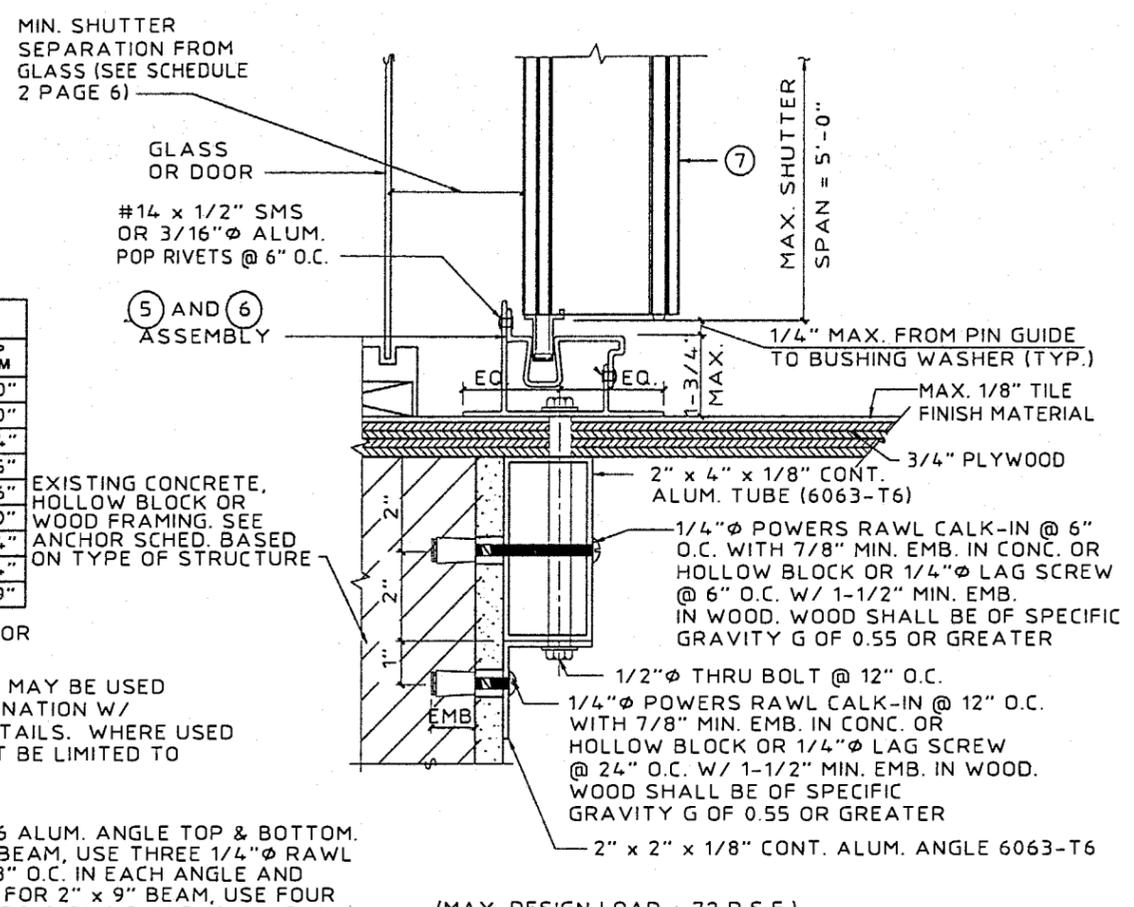


G BUILD-OUT MOUNT SECTION
 SCALE: 3" = 1'-0"

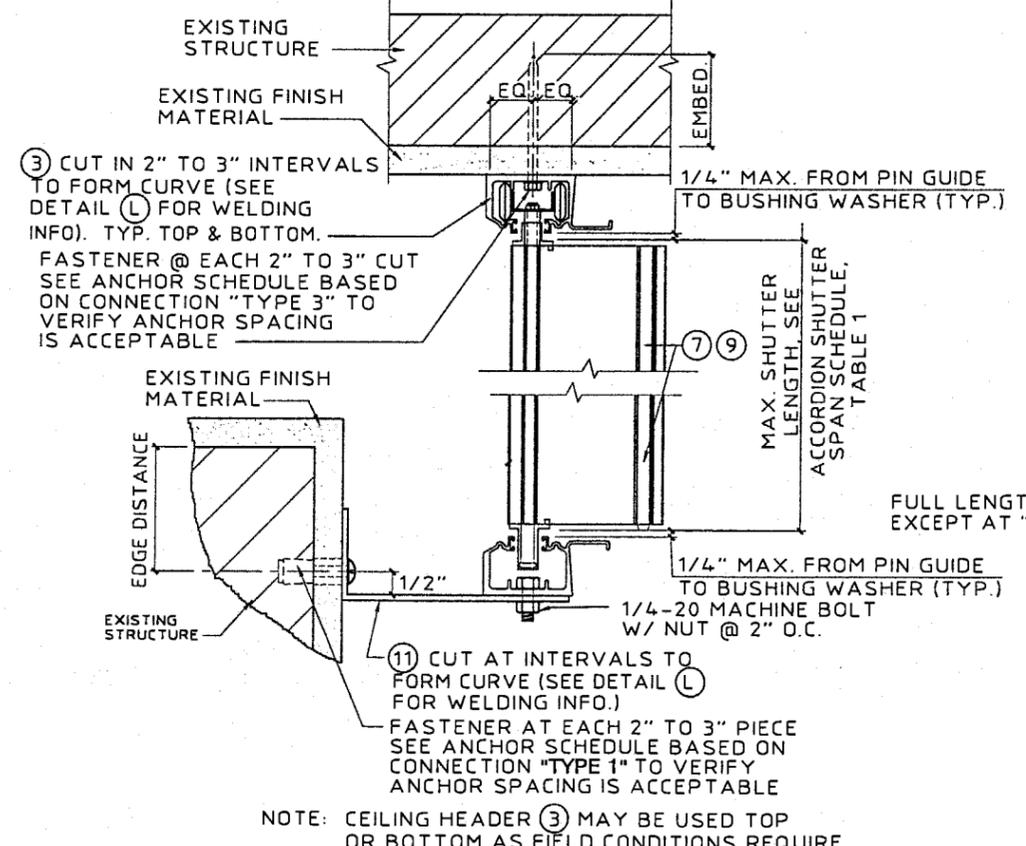
*** BEAM SCHEDULE**

DESCRIPTION	SHUTTER SPAN	BOTTOM BEAM	TOP BEAM
2" x 5"	5'-0"	9'-5"	9'-0"
T _w = .125"	8'-0"	8'-1"	8'-0"
T _f = .125"	10'-3"	7'-4"	7'-4"
2" x 7"	5'-0"	11'-4"	8'-5"
T _w = .072"	8'-0"	9'-8"	7'-6"
T _f = .130"	10'-3"	8'-9"	7'-0"
2" x 9"	5'-0"	15'-5"	9'-4"
T _w = .072"	8'-0"	13'-2"	8'-4"
T _f = .224"	10'-3"	11'-11"	7'-9"

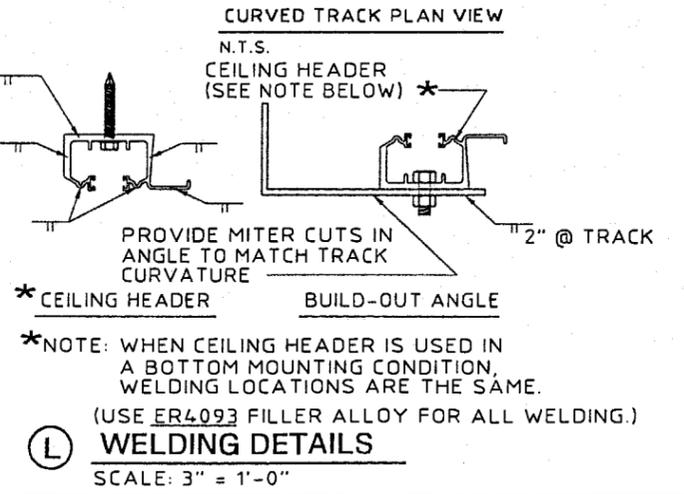
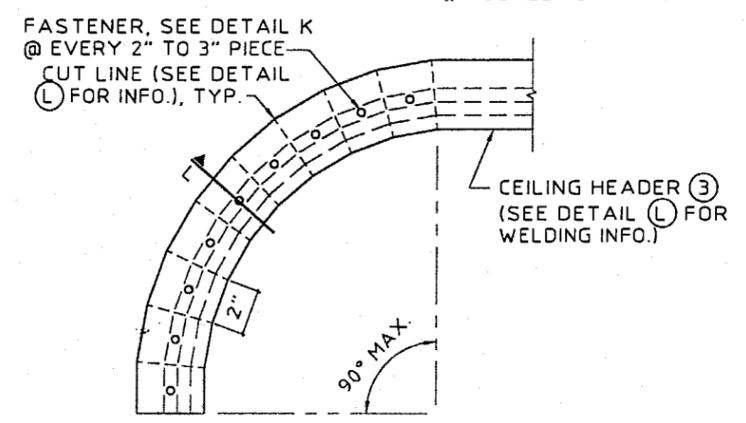
***USE BEAM SCHEDULE FOR DETAIL G.**
 TOP & BOTTOM BEAMS MAY BE USED TOGETHER OR IN COMBINATION W/ OTHER CONNECTION DETAILS. WHERE USED TOGETHER, BEAM MUST BE LIMITED TO TOP BEAM SPANS.
NOTE G1:
 2" x 3" x 1/4" 6063-T6 ALUM. ANGLE TOP & BOTTOM. FOR 2" x 5" & 2" x 7" BEAM, USE THREE 1/4" Ø RAWL CALK-IN ANCHORS @ 3" O.C. IN EACH ANGLE AND USE 8" LONG ANGLES FOR 2" x 9" BEAM, USE FOUR 1/4" Ø CALK-IN ANCHORS @ 3" O.C. IN EACH ANGLE AND USE 11" LONG ANGLES



I PASS THRU DETAIL
 SCALE: 3" = 1'-0"



K CURVED TRACK DETAIL
 SCALE: 3" = 1'-0"



L WELDING DETAILS
 SCALE: 3" = 1'-0"



TABLE 2	MINIMUM SEPARATION FROM GLASS		
	POSITIVE DESIGN LOAD (W) (P.S.F.)	ACTUAL SHUTTER SPAN (L) (FT. - IN)	MIN. SEPARATION FROM GLASS FOR INSTALLATIONS LESS THAN OR EQUAL TO 30' ABOVE GRADE (IN.)
40.0	8'-3"	3-1/8	1-5/8
	10'-0"	3-3/4	2-1/8
	11'-11"	3-3/4	3
50.0	8'-3"	3-1/8	1-3/4
	10'-0"	3-3/4	2-3/8
	11'-4"	3-3/4	3
60.0	5'-0"	3-1/8	1-1/4
	8'-3"	3-1/8	1-7/8
	10'-9"	3-3/4	3
70.0	5'-0"	3-1/8	1-1/8
	8'-3"	3-1/8	1-7/8
	10'-5"	3-3/4	3
80.0	6'-0"	3-1/8	1-3/8
	8'-3"	3-1/8	2-1/8
	9'-4"	3-3/4	2-5/8
90.0	5'-0"	3-1/8	1-3/8
	7'-0"	3-1/8	1-5/8
	8'-3"	3-1/8	2-1/8
100.0	5'-0"	3-1/8	1-3/8
	7'-0"	3-1/8	1-3/4
	8'-3"	3-1/8	2-1/4
110.0	5'-0"	3-1/8	1-3/8
	7'-0"	3-1/8	1-7/8
	8'-3"	3-1/8	2-3/8
120.0	5'-0"	3-1/8	1-3/8
	7'-0"	3-1/8	1-7/8
	8'-3"	3-1/8	2-1/4
130.0	5'-0"	3-1/8	1-3/8
	7'-0"	3-1/8	1-7/8
	8'-3"	3-1/8	2-1/2

TABLE 1 NOTES:

1. ENTER TABLE 1 WITH NEGATIVE DESIGN LOAD TO DETERMINE MAXIMUM SHUTTER SPAN. POSITIVE LOADS LESS THAN OR EQUAL TO THE NEGATIVE LOAD ARE ACCEPTABLE.
2. FOR DESIGN LOADS BETWEEN TABULATED VALUES, USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.

TABLE 1	ACCORDION SHUTTER SPAN SCHEDULE	
	NEGATIVE DESIGN LOAD W (P.S.F.)	FOR ALL MOUNTING CONDITIONS L max. (FT-IN)
30.0	12-10	
35.0	12-4	
40.0	11-11	
45.0	11-7	
50.0	11-3	
55.0	11-0	
60.0	10-9	
65.0	10-6	
70.0	10-4	
72.0	10-3	
75.0	10-2	
80.0	9-11	
90.0	9-7	
100.0	9-3	
110.0	9-0	
120.0	8-8	
130.0	8-4	
133.0	8-3	
140.0	7-11	
150.0	7-5	
160.0	6-11	
170.0	6-6	
180.0	6-2	
190.0	5-10	
200.0	5-6	

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE 09/26/2000
 BY *Heather A. Miller*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 00-0424.03

KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING
 1280 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
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 WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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 6.8 SYSTEM LICENSED BY SOUTHERN SHUTTER ASSOCIATION

6.8" ACCORDION SHUTTER
 4900B N.E. 11th AVE.
 FT. LAUDERDALE, FL 33334
 (954) 489-9797
6.8" Accordion Shutters
 MANUFACTURING, INC.

revisions	
no.	description
1	03/19/99 VJK COUNTY COMMENTS
2	02/13/00 VJK GENERAL REVISIONS

SSA I.D.# 04130098254D

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

APR 13 2000
 date 12/08/98
 scale AS NOTED drawn by MC
 design by VJK checked by VJK
 drawing no. 00-910
 sheet 6 of 6