



**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**

**Bernardo Shutter Corporation**  
**915 S. Dixie Hwy East**  
**Pompano Beach ,FL 33060**

Your application for Notice of Acceptance (NOA) of:

**Extruded Aluminum Bahama 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.: 01-0905.07**  
**EXPIRES: 08/27/2006**

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: 10/04/2001**

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

**1.1** This **renews** Notice of Acceptance (NOA) No. 97-0731.04, which was approved on August 27, 1998. It renewal the approval of an aluminum bahama shutter system, as described in Section 2 of this NOA, designed to comply with the South Florida Building Code (SFBC) 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by the SFBC Chapter 23 do not exceed the design pressure rating values indicated on the approved drawings

**2. PRODUCT DESCRIPTION**

**2.1** The **extruded aluminum bahama shutter covered with Lexan** and its components shall be constructed in strict compliance with drawings No.96-100, sheets 1 to 6 of 6, titled "Bernardo Shutter Corporation Bahama Shutter" dated 11/01/96 with latest revision on 07/15/98, prepared, singed and sealed by Gene S. Sanders, P.E. on 7/15/98, bearing the Dade County Product Control renewal stamp with the NOA number and the expiration date by Dade County Product Control Division. These drawings shall hereinafter be referred to as the approved drawings.

**3. LIMITATIONS**

**3.1** Panels are limited to those sizes and installations shown on approved drawings.  
**3.2** All permanent set components, included but not limited to embedded anchor bolts threaded cones, metal shields, headers, jambs and sill must be protected against corrosion, contamination and damage at all times.

**4. INSTALLATION**

**4.1** This hurricane protection system must be installed in strict compliance with the approved drawings.

**5. LABELING**

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

**6. BUILDING PERMIT REQUIREMENTS**

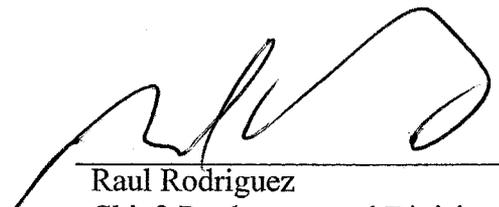
**6.1** Application for Building Permit shall be accompanied by copies of the following:  
**6.1.1** This Notice of Acceptance  
**6.1.2** Duplicate copies of the approved drawings as identified in Section 2 of this Notice of Acceptance clearly marked to show the components selected for the proposed 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.

  
\_\_\_\_\_  
Raul Rodriguez  
Chief, Product control Division

**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 documentation, 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 purpose.
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 need 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 ACCEPTANCE**

  
\_\_\_\_\_  
Raul Rodriguez  
Chief, Product control Division

# BERNARDO SHUTTER CORPORATION

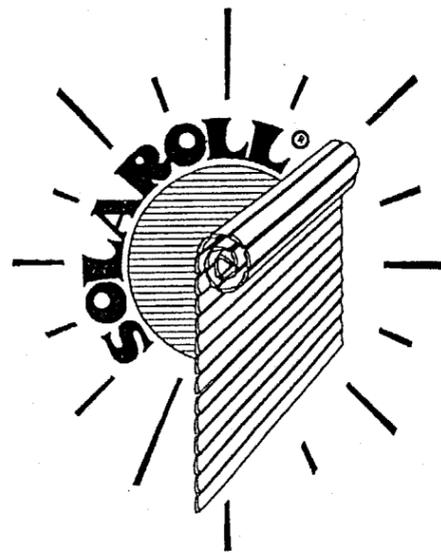
A MEMBER OF THE SOLAROLL® GROUP

POMPANO BEACH, FLORIDA 33060

## BAHAMA SHUTTER

### GENERAL NOTES

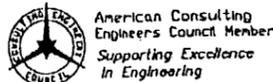
- 1.0 THE SHUTTER SYSTEM IS DESIGNED TO MEET THE REQUIREMENTS OF THE SOUTH FLORIDA BUILDING CODE, SECTIONS 2909.6 & 3513. 1994 DADE COUNTY EDITION.
- 1.1 DESIGNING WIND PRESSURES SHALL BE DERIVED USING THE AMERICAN SOCIETY OF ENGINEERS STANDARD ASCE 7-88
- 1.2 THE LARGE MISSILE IMPACT, CYCLIC WIND PRESURE, AND UNIFORM STATIC AIR PRESURE TEST, ENTITLED AMERICAN TEST LAB REPORT #1007.01-96 DATED 10-7-96 PREPARED BY GERARD B. SULLIVAN WAS CONDUCTED IN ACCORDANCE TO THE REQUIREMENTS OF THE DADE COUNTY CODE COMPLIANCE OFFICE PROTOCOL #PA 201-94, PA 202-94 AND PA 203-94
- 1.3 MAXIMUM DESIGN LOAD 80 PSF.
- 2.0 ALUMINUM COMPONENTS ARE DESIGNED IN ACCORDANCE WITH THE "ALUMINUM CONSTRUCTION MANUAL".
- 3.0 THE ALUMINUM ALLOYS USED TO DERIVE THESE DESIGN CHARTS ARE AS SHOWN IN THE DRAWINGS.
- 4.0 STEEL SURFACES IN CONTACT WITH ALUMINUM COMPONENTS SHALL BE GALVANIZED OR HAVE ONE COAT OF ZINC CHROMATE PRIMER IN ACCORDANCE WITH FEDERAL SPEC TTP-645.
- 5.0 THE EMBEDMENT FOR ANCHORS SHOWN IN THESE DRAWINGS IS THE REQUIRED MINIMUM PENETRATION INTO THE BASE MATERIAL OF THE SUPPORTING STRUCTURE. MINIMUM EDGE DISTANCE (3 1/2") SHOWN IN THESE DRAWINGS INCLUDE A 1/2" ALLOWANCE FOR STUCCO.
- 6.0 BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL OR ALUMINUM ALLOY 2024-T4 OR 7075-T6
- 7.0 DEFLECTION DESIGN CRITERIA.
  - 7.1 MULLIONS HAVE BEEN SIZED TO LIMIT THE DEFLECTION OF THE ELEMENTS TO  $\leq L/180$  AT THE DESIGN LOAD.
  - 7.2 SLATS HAVE BEEN SIZED TO LIMIT THE DEFLECTION AT THE DESIGN LOAD TO BE  $\leq L/30$  FOR SUCTION AND THE LESSER OF L/30 OR 2 INCHES WHEN SUBJECTED TO POSITIVE PRESSURE.
  - 7.3 SHUTTERS SHALL BE CONFIGURED TO HAVE NO LESS THAN 2 15/16 INCHES MINIMUM CLEARANCE BETWEEN THE UNLOADED SLAT AND THE GLAZING FOR A MAXIMUM DESIGN LOAD OR 80 PSF.



### PRODUCT MARKING

A LABEL SHALL BE PLACED ON THE LOWER RIGHT CORNER, WITH THE FOLLOWING STATEMENT:

EXTRUDED ALUMINUM BAHAMA SHUTTER  
DADE COUNTY PRODUCT CONTROL APPROVED  
MANUFACTURED BY BERNARDO SHUTTER, CORP.



**JENKINS & CHARLAND**  
3559 N.W. 33rd Street  
FORT LAUDERDALE, FL 33309  
(954) 464-7777  
TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETE STRUCTURE SHOWN ON THESE PLANS COMPLIES WITH THE APPLICABLE HOOKER BUILDING CODES.

7/15/98  
PROF. ENGINEER  
GENE S. SANDERS  
FLA. PE # 26590

### **PRODUCT RENEWED**

ACCEPTANCE No. 01-0905-07

EXPIRATION DATE August 27-2006

By [Signature]  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

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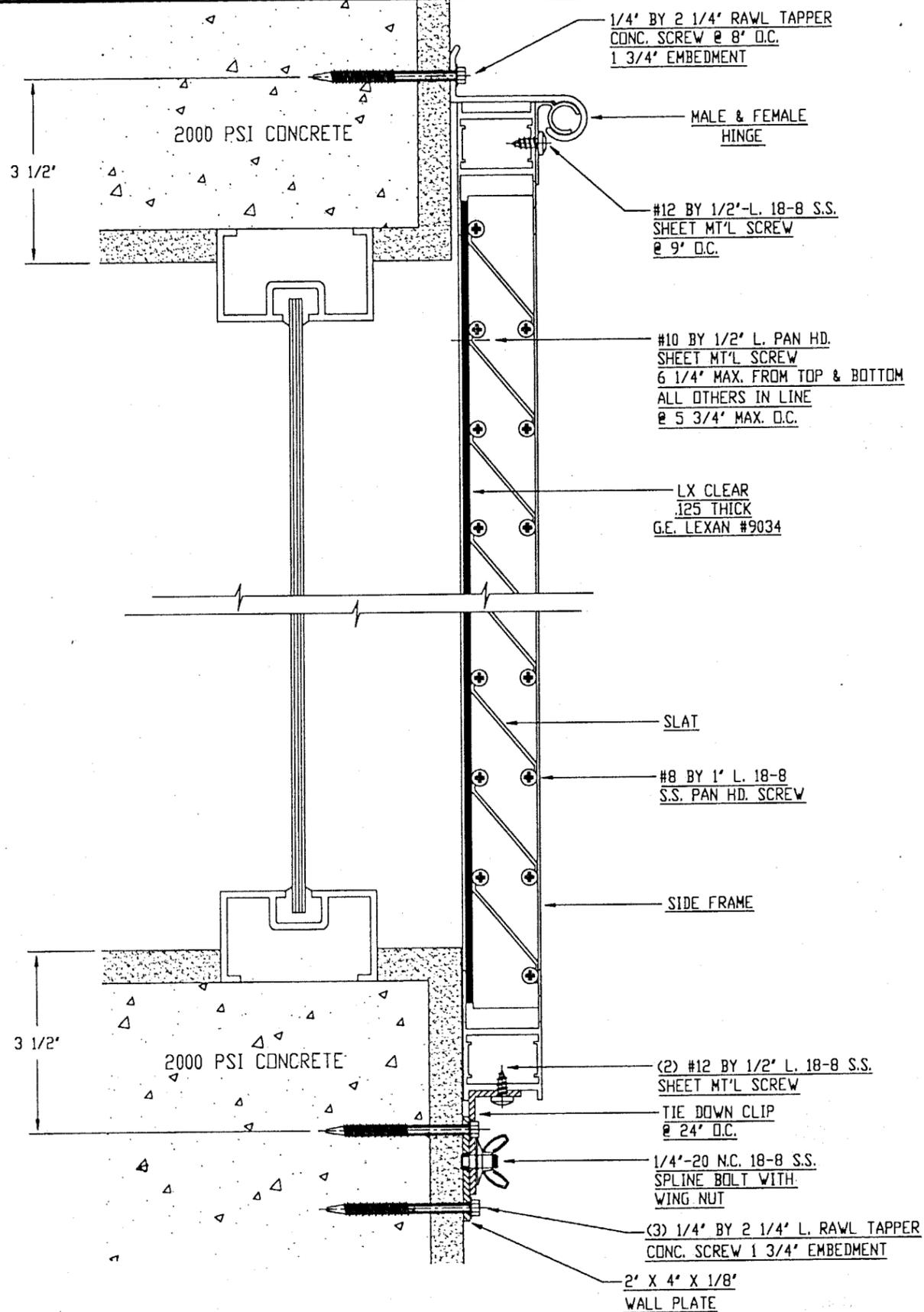
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1	GENERAL NOTES, TABLE OF CONTENTS
2	BAHAMA TYPICAL SECTIONS
3	BAHAMA TYPICAL SECTIONS
4	BAHAMA ELEVATION & PLAN VIEW
5	BAHAMA PANEL ASSEMBLY
6	BAHAMA COMPONENTS

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE August 27 19 98  
BY [Signature]  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 97-0731.04

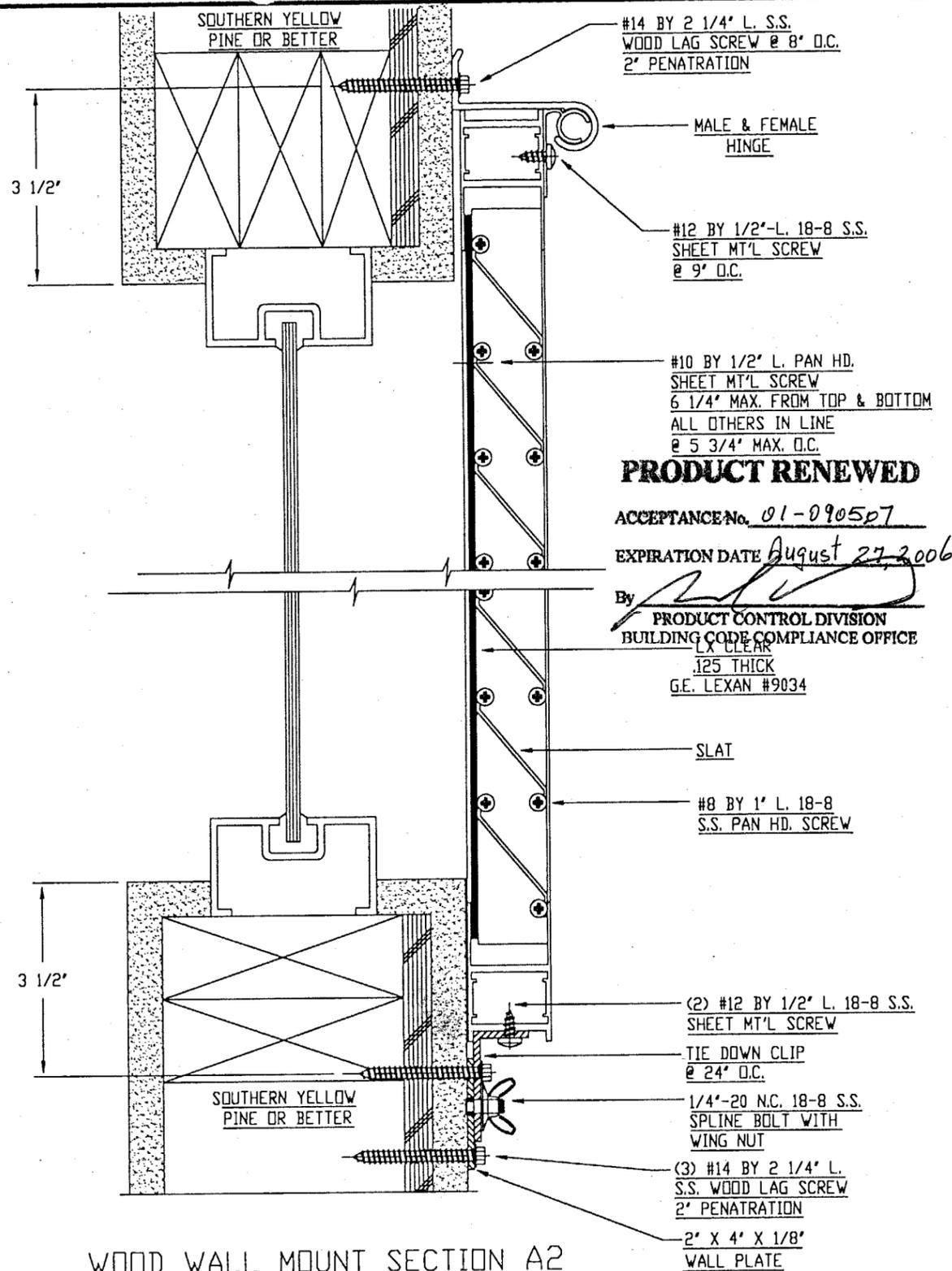
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Pompano Beach, Florida 33060  
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DATE: 11-1-96 REV: 7-15-98

GENERAL NOTES &  
TABLE OF CONTENTS

PAGE NUMBER  
1 OF 6



CONCRETE WALL MOUNT SECTION A1



WOOD WALL MOUNT SECTION A2

**PRODUCT RENEWED**

ACCEPTANCE No. 01-0905p7

EXPIRATION DATE August 27, 2006

By [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 LX CLEAR  
 .125 THICK  
 G.E. LEXAN #9034

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
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 BY [Signature]  
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 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 97-0731.04

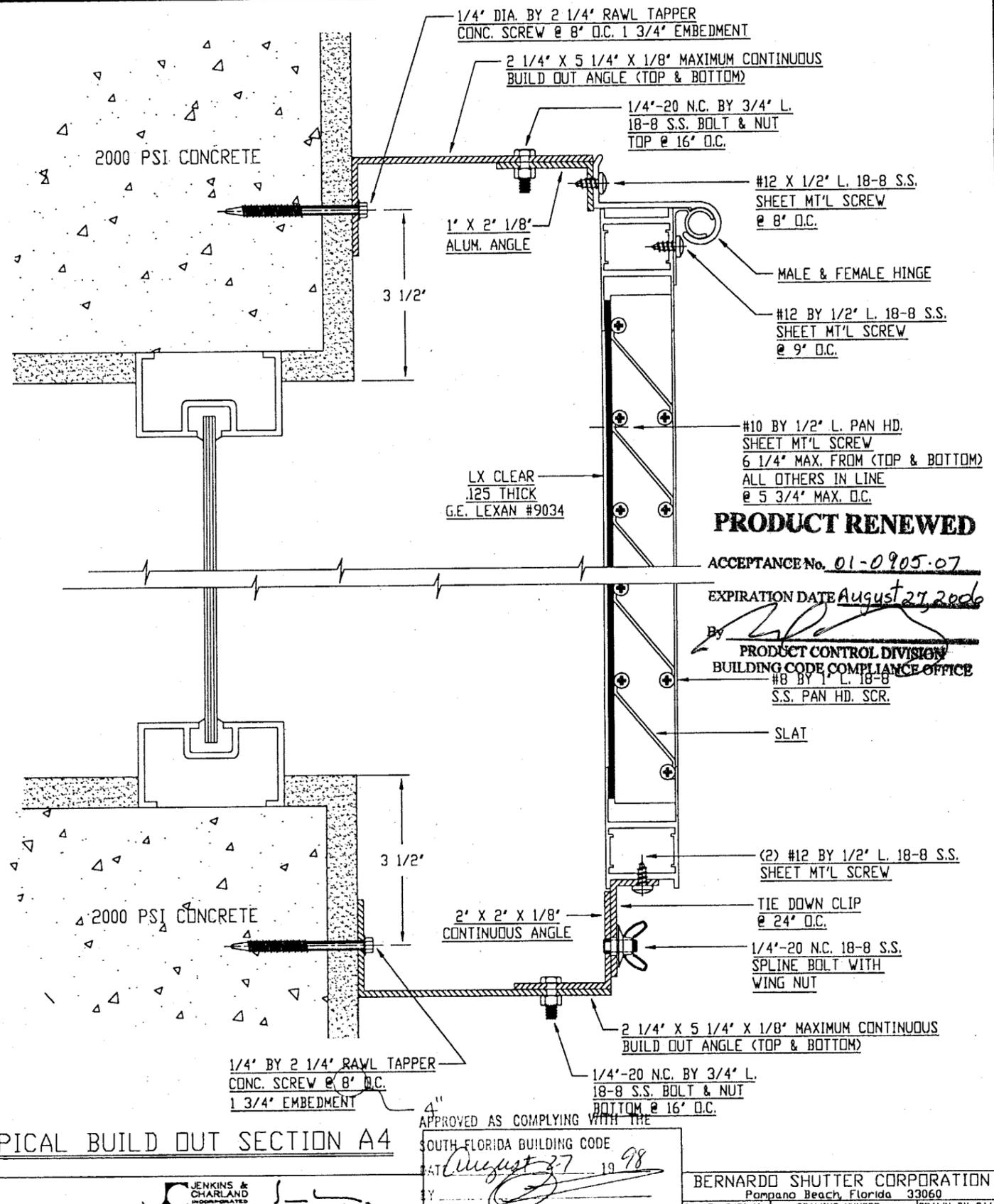
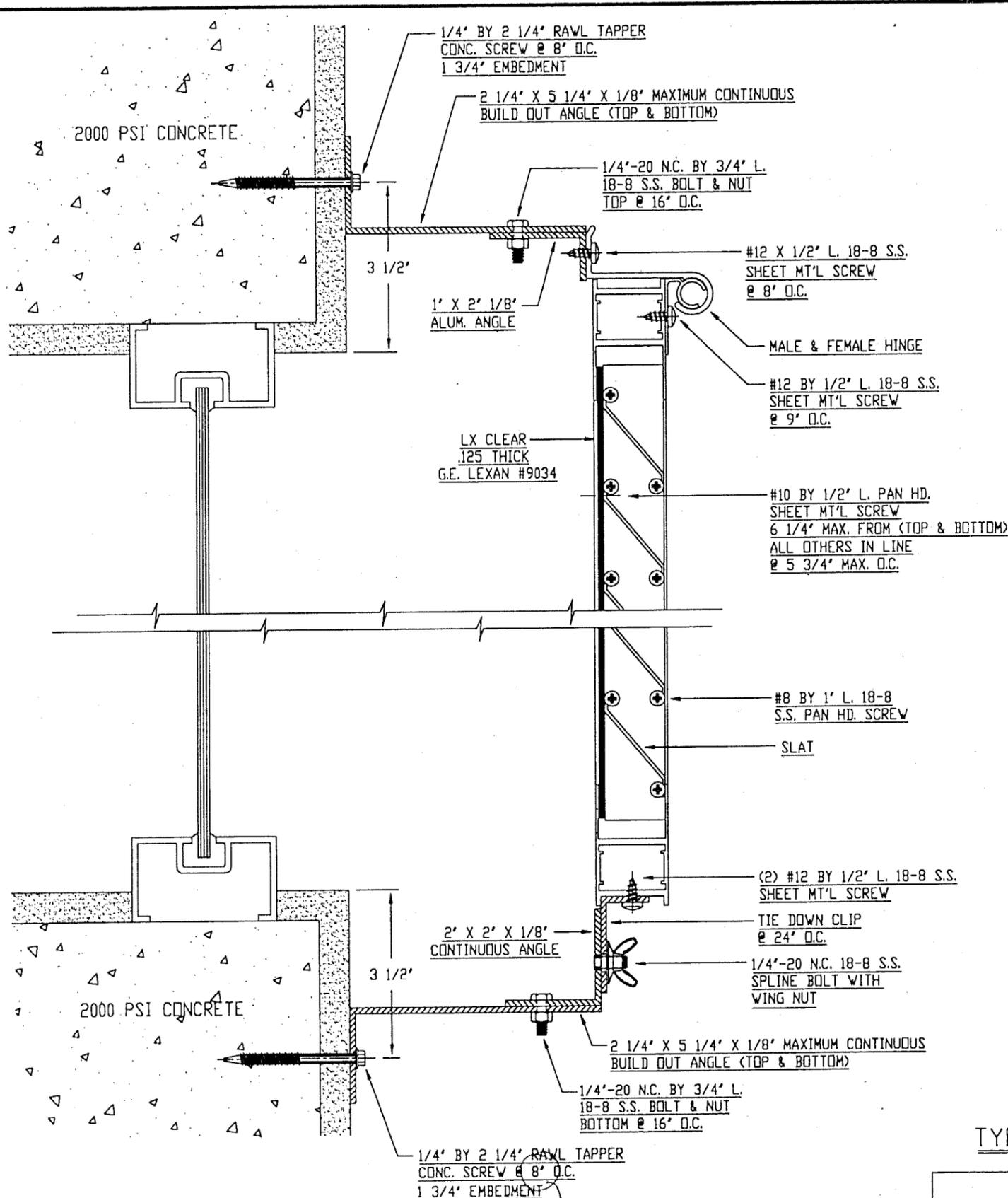
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TYPICAL BAHAMA SECTIONS		
		PAGE NUMBER: 2 OF 6

**JENKINS & CHARLAND**  
 INCORPORATED  
 3009 N.W. 33rd Street  
 FORT LAUDERDALE, FL 33309  
 (954) 484-7777

American Consulting Engineers Council Member  
 Supporting Excellence in Engineering

TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETE STRUCTURE DEPICTED ON THESE PLANS COMPLIES WITH THE APPLICABLE HOBASIL BUILDING CODES.

PROF. ENGINEER  
 GENE S. SANDERS  
 FLA. PE # 26590



REVERSED BUILD OUT SECTION A3

TYPICAL BUILD OUT SECTION A4

**PRODUCT RENEWED**

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By *[Signature]*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 AT August 27, 1998  
 BY *[Signature]*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 97-0731-04

BERNARDO SHUTTER CORPORATION  
 Pompano Beach, Florida 33060  
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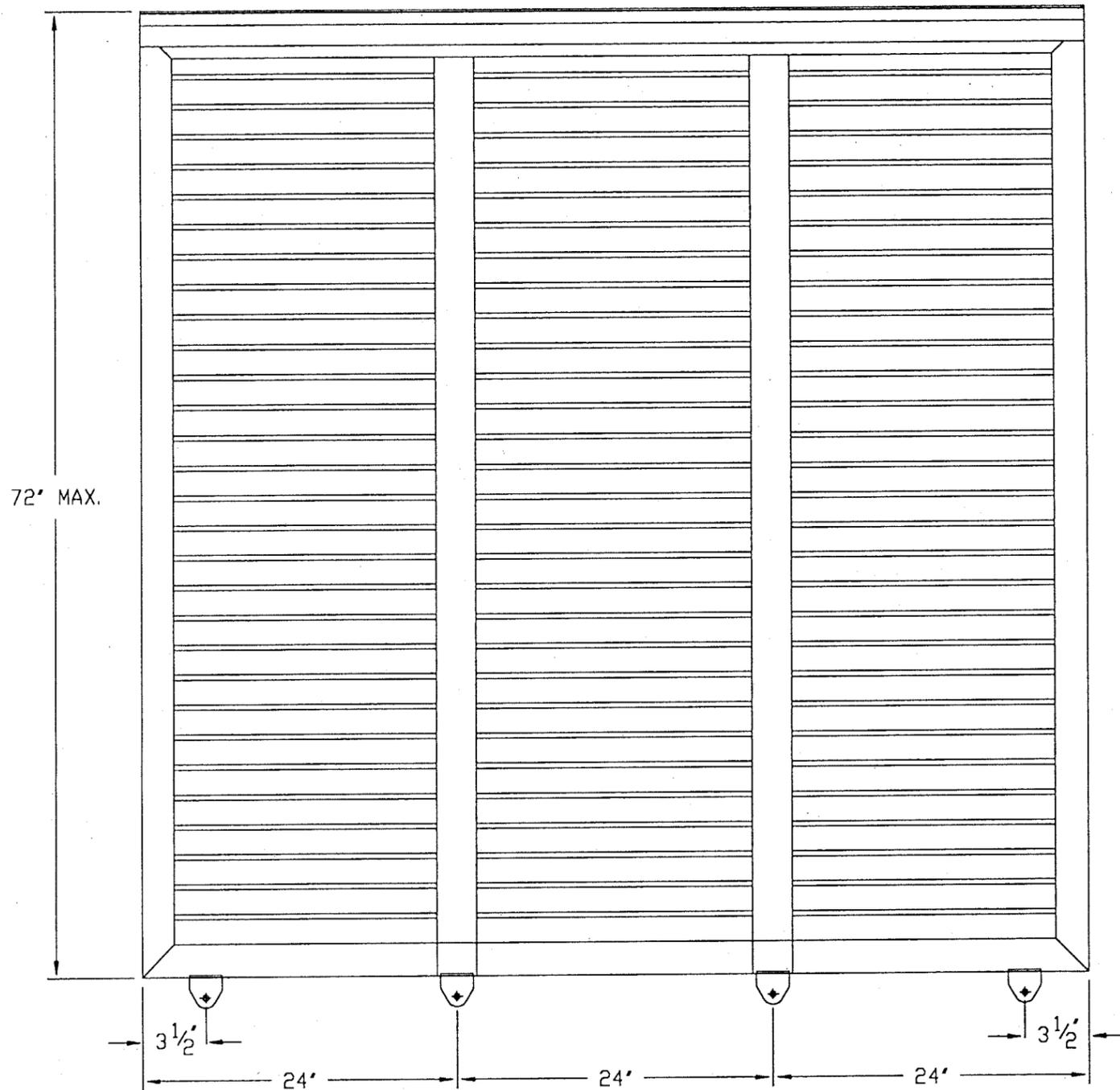
TYPICAL BAHAMA  
 SECTIONS

PAGE NUMBER  
 3 OF 6

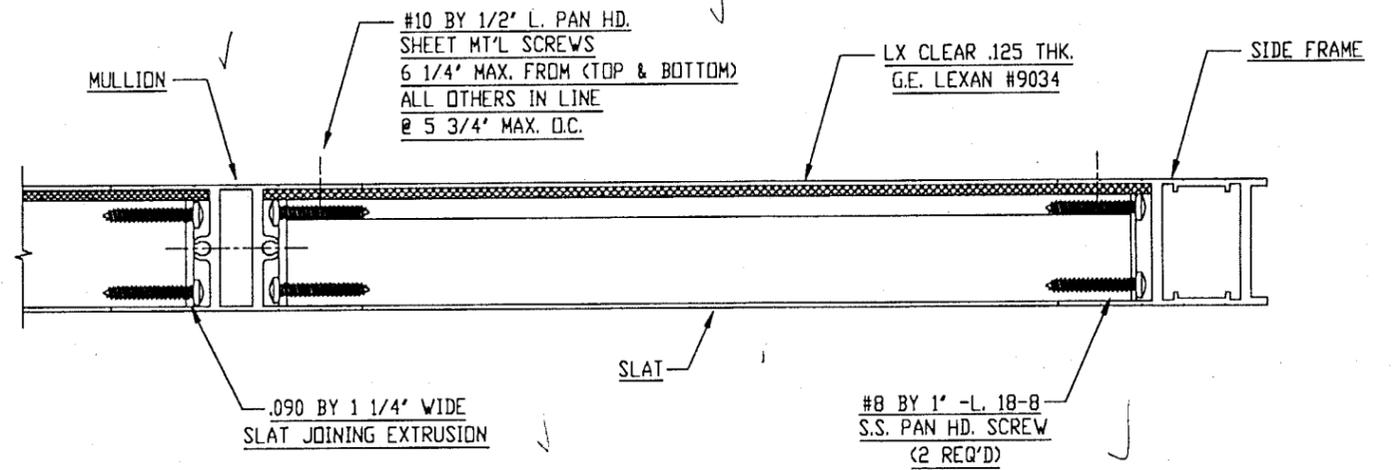
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 2559 N.W. 33rd Street  
 FORT LAUDERDALE, FL 33309  
 (352) 484-7777  
 TO THE BEST OF MY KNOWLEDGE  
 AND ABILITY, THE COMPLETED  
 STRUCTURE SHOWN ON THESE  
 PLANS COMPLES WITH THE  
 APPLICABLE FORDHAM BUILDING  
 CODES.

7/15/98  
 PROF. ENGINEER  
 GENE S. SANDERS  
 FLA. PE # 26590



ELEVATION  
N.T.S.



PLAN VIEW  
1/2" = 1'

**PRODUCT RENEWED**

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By [Signature]  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE

SOUTH FLORIDA BUILDING CODE

DATE August 27, 1998

BY [Signature]

PRODUCT CONTROL DIVISION

BUILDING CODE COMPLIANCE OFFICE

ACCEPTANCE NO. 97-0731-04

BERNARDO SHUTTER CORPORATION  
Pompano Beach, Florida 33060

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DATE: 11-1-96 REV: 7-15-98

ELEVATION - PLAN VIEW

PAGE NUMBER  
4 OF 6

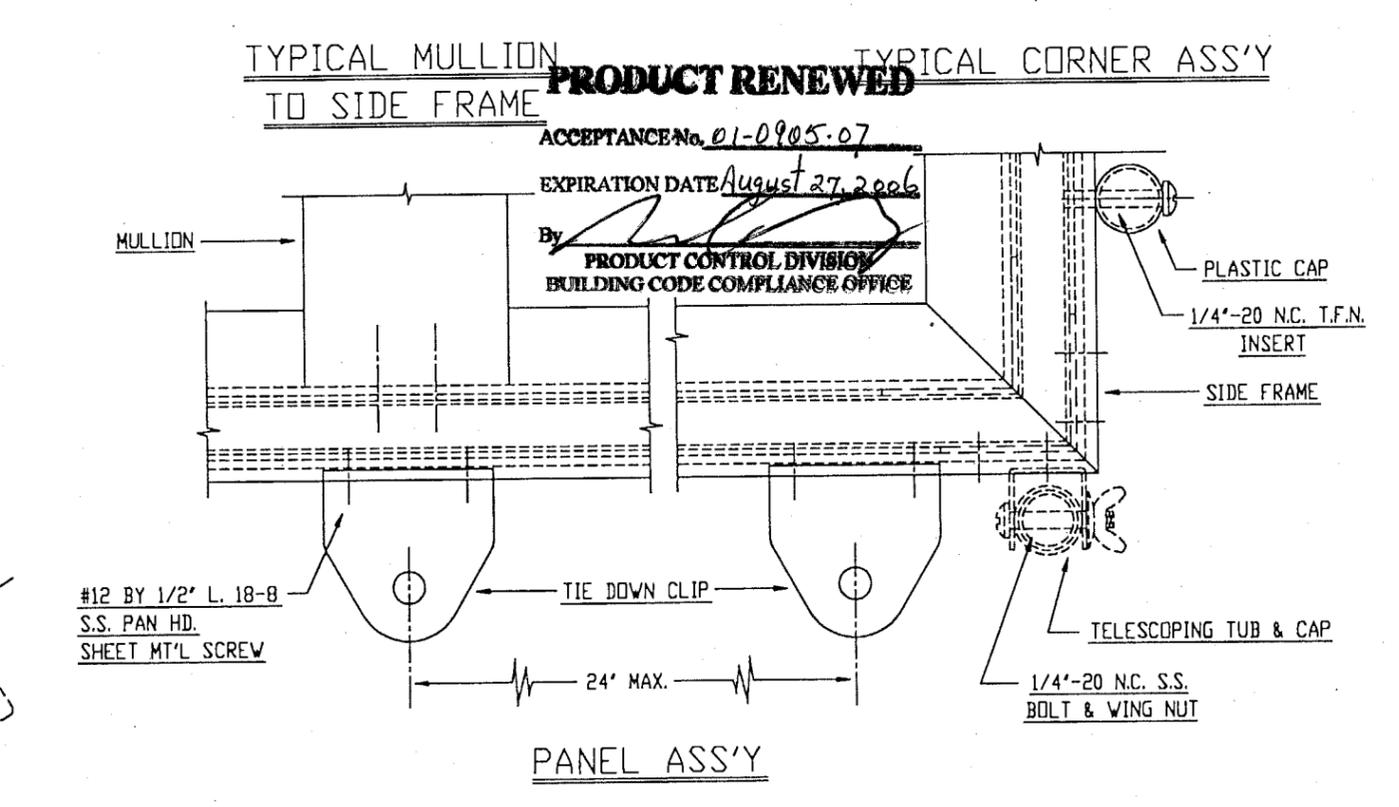
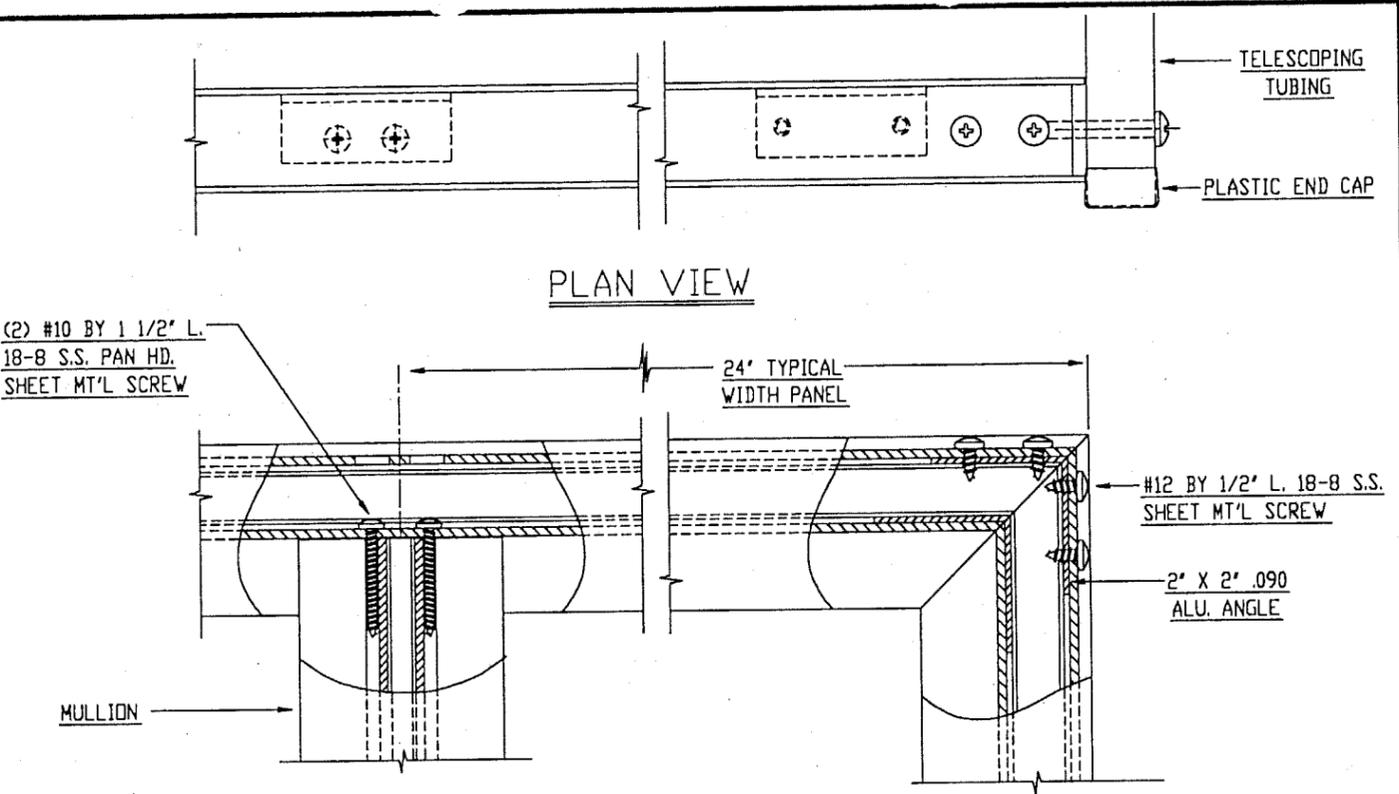
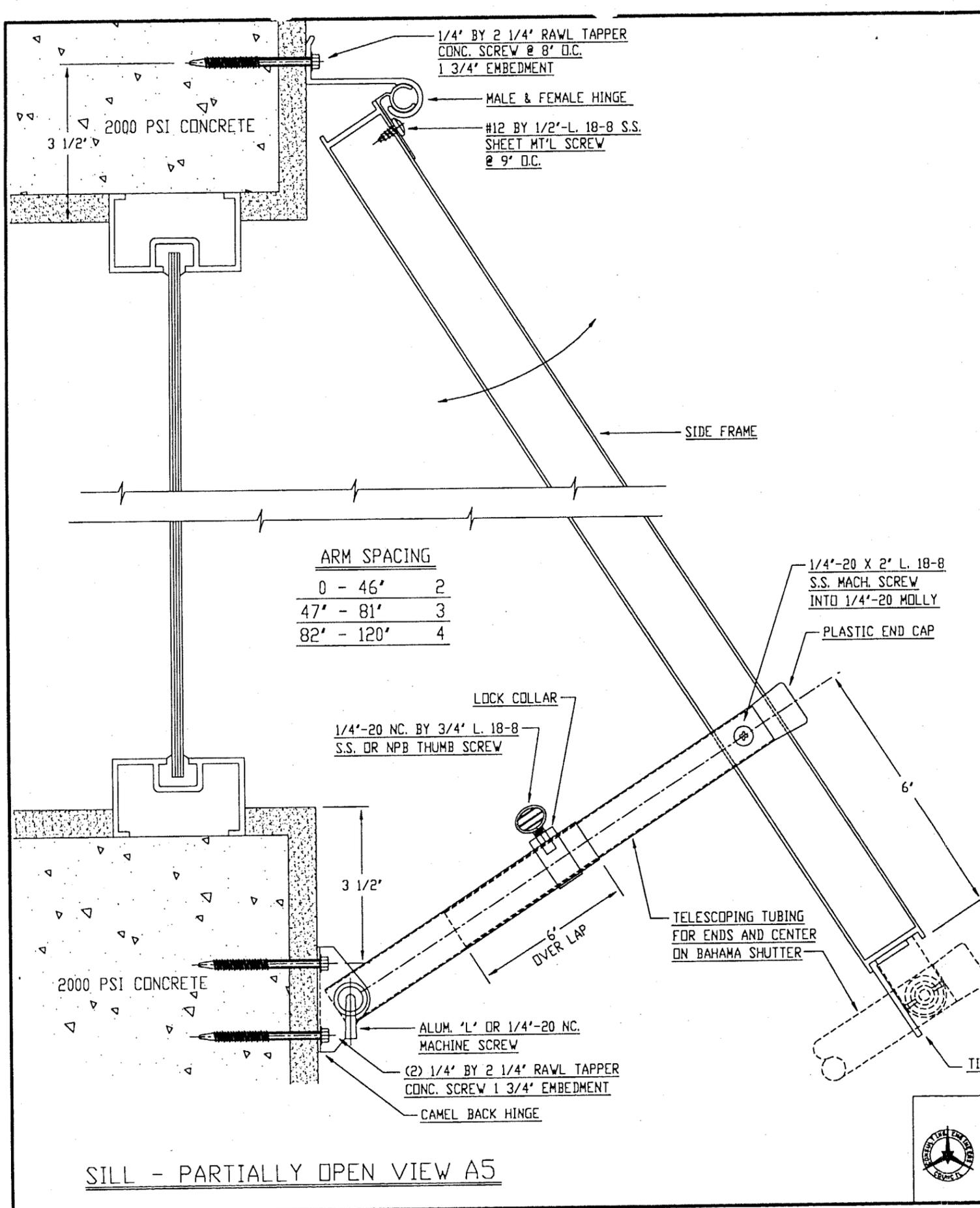


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CDD 484-7777

TO THE BEST OF MY KNOWLEDGE  
AND ABILITY, THE COMPLETED  
STRUCTURE SHOWN ON THESE  
PLANS COMPLIES WITH THE  
APPLICABLE BUILDING  
CODE.

7/15/98  
PROF. ENGINEER  
GENE S. SANDERS  
FLA. PE # 26590



SILL - PARTIALLY OPEN VIEW A5

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FORT LAUDERDALE, FL 33309  
CDD# 484-7777

TO THE BEST OF MY KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE PLANS COMPLIES WITH THE APPLICABLE REGULAR BUILDING CODES.

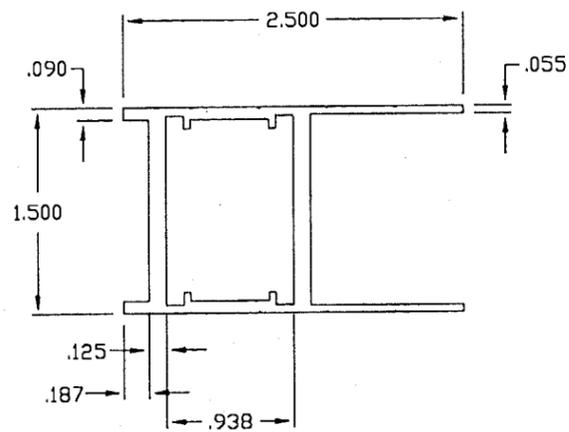
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
DATE August 27, 19 98  
715158  
Prof. Engineer  
GENE S. SANDERS  
FLA. PE # 26590

BERNARDO SHUTTER CORPORATION  
Pompano Beach, Florida 33060

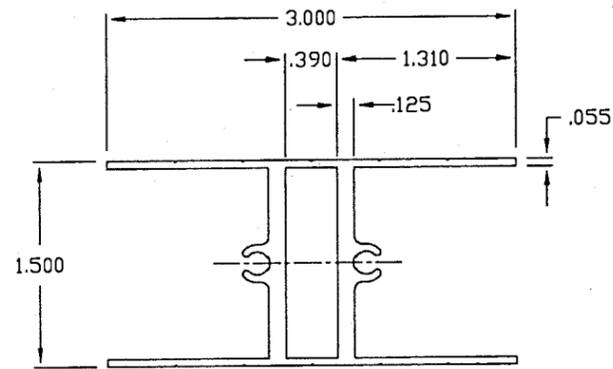
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BAHAMA PANEL ASSEMBLY

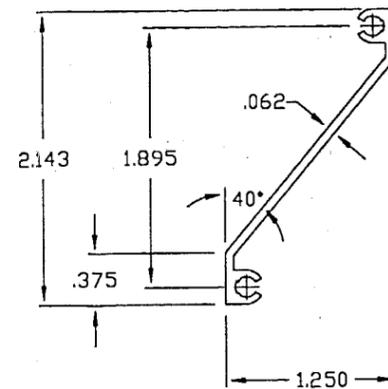
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BUILDING CODE COMPLIANCE OFFICE  
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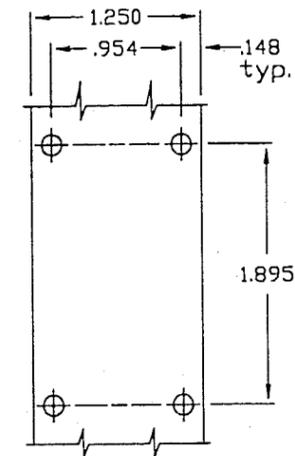
① SIDE FRAME  
MAT'L ALUM. 6063-T6



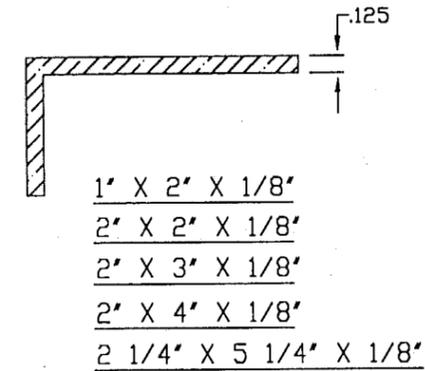
② MULLION  
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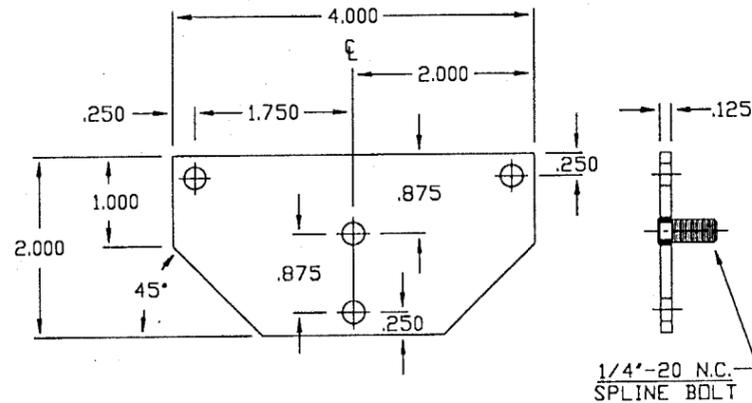
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MAT'L ALUM. 6061-T6



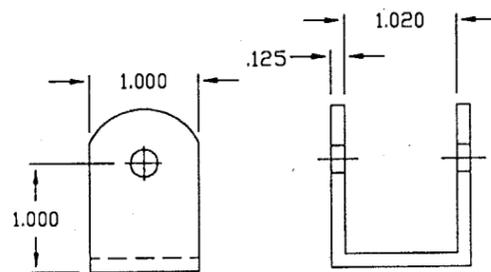
④ SLAT JOINING EXTRUSION  
MAT'L ALUM. 6063-T6  
.090 THK.



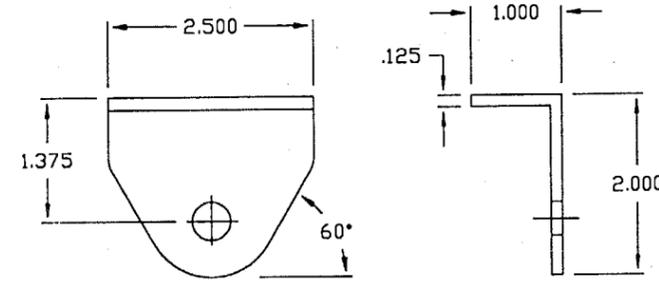
⑤ ANGLES  
MAT'L ALUM. 6063-T6



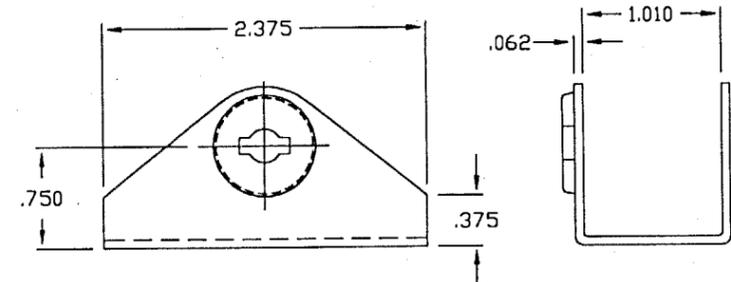
⑥ WALL PLATE  
MAT'L ALUM. 6063-T6



⑦ 'U' HINGE  
MAT'L ALUM. 6063-T6



⑧ TIE DOWN CLIP  
MAT'L ALUM. 6063-T6



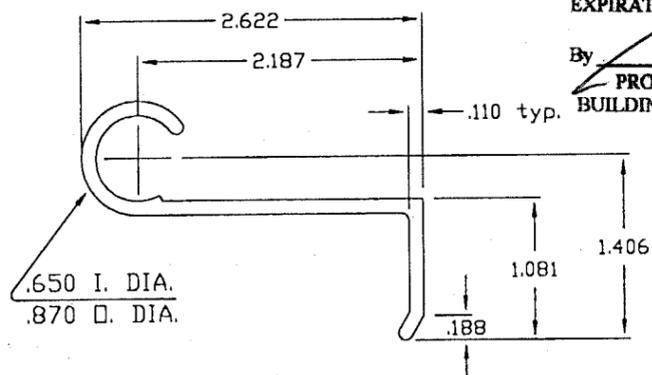
⑨ ALUM. CAMEL BACK HINGE

**PRODUCT RENEWED**

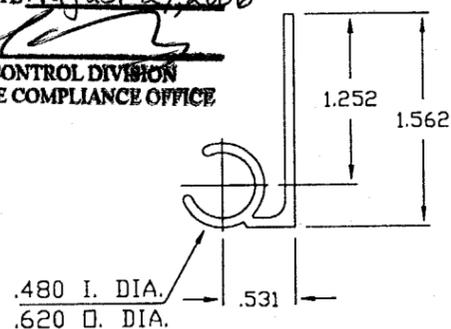
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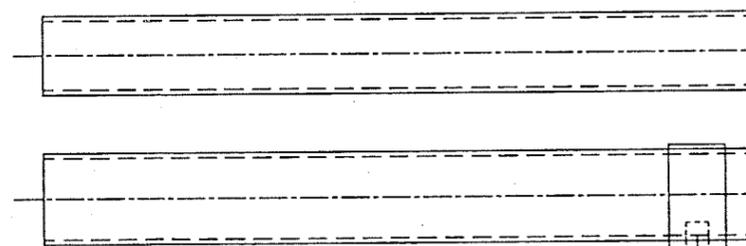
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PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE



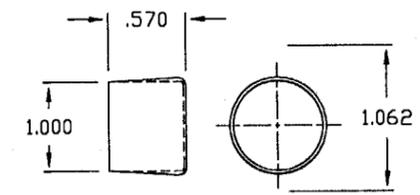
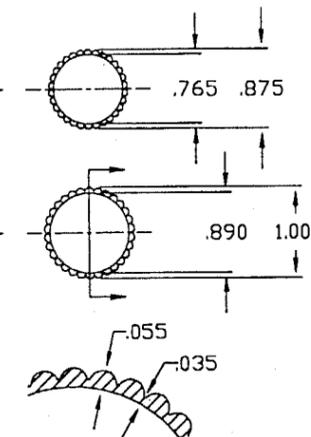
⑩ MOUNTING HINGE (FEMALE)  
MAT'L ALUM. 6063-T6



⑪ MOUNTING HINGE (MALE)  
MAT'L ALUM. 6063-T6



⑫ .055 THK. SERRATED ALUMINUM TUBES TELESCOPIC



⑬ PLASTIC END CAP ON EXTENDED ARMS

**JENKINS & CHARLAND**  
INCORPORATED  
3559 N.W. 33rd Street  
FORT LAUDERDALE, FL 33309  
352-484-7777  
American Consulting Engineers Council Member  
Supporting Excellence in Engineering

7/15/98  
PROF. ENGINEER  
GENE S. SANDERS  
FLA. PE # 26590

APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE August 27 19 98  
BY [Signature]  
PRODUCT CONTROL DIVISION  
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ACCEPTANCE NO. 477-0731-04

**BERNARDO SHUTTER CORPORATION**  
Pompano Beach, Florida 33060  
SCALE: N.T.S. DRAWING NUMBER 96-100 DRAWN BY: S.V. DATE: 11-1-96 REV: 7-15-98

**BAHAMA COMPONENTS**

PAGE NUMBER 6 OF 6