



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

Duraframe 2000, Inc.
6001 Georgia Avenue (Suite 9)
West Palm Beach ,FL 33405

Your application for Notice of Acceptance (NOA) of:

"Duraframe 2000 Retrofit" Extruded 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.: 01-0206.24
EXPIRES: 04/09/2006

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: 04/23/2001

Duraframe 2000, Inc.

ACCEPTANCE No. : 01-0206.24

APPROVED : 04/23/2001

EXPIRES : 04/09/2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This revises and renews the Notice of Acceptance No. 97-1118.22, which was issued on April 9, 1998. It approves a "Duraframe P-20" 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 "Duraframe P-20" Storm Panel Shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 01-078, titled "Duraframe 2000 / Retrofit", prepared by Tilteco, Inc., dated April 18, 2001, last revision #1 dated April 18, 2001, sheets 1, 2, 2A, 3, 4, 5, 5A, 6, 7, 8, and 9 of 9, signed and sealed by Walter A. Tillit Jr., P.E., 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 "Duraframe P-20" 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

Duraframe 2000, Inc.

ACCEPTANCE No. : 01-0206.24

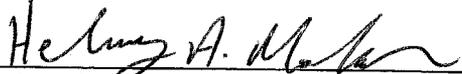
APPROVED : 04/23/2001

EXPIRES : 04/09/2006

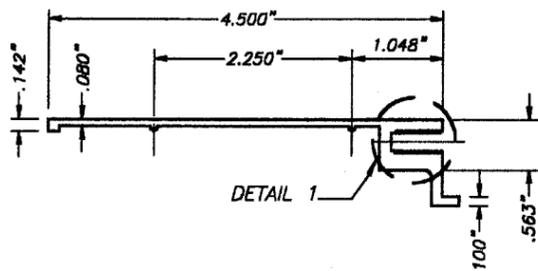
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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

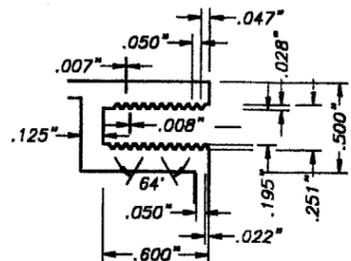


Helmy A. Makar, P.E. -Product Control Examiner
Product Control Division

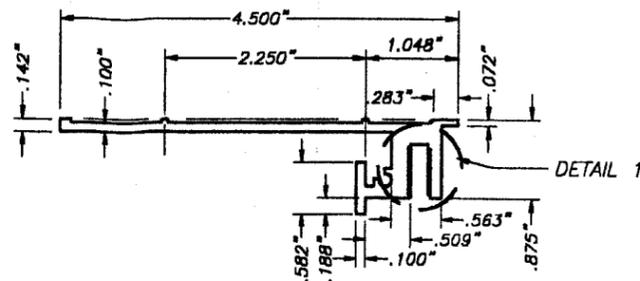


EXTRUSION DIE UNF- (21)

SCALE : 1/2" = 1"

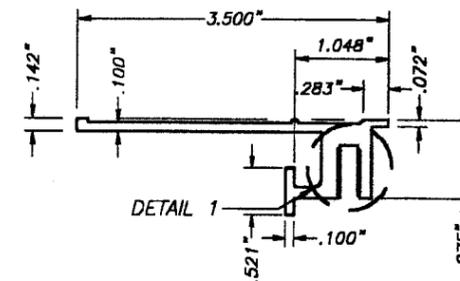


DETAIL 1



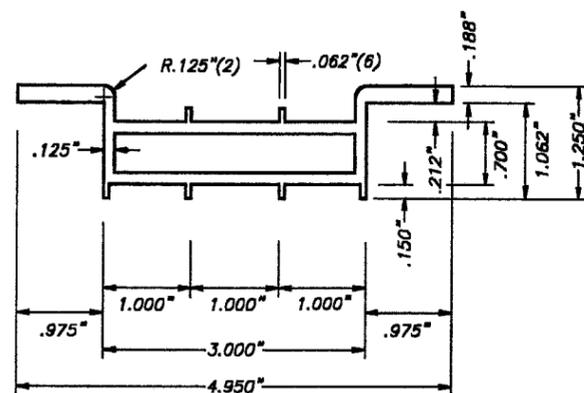
EXTRUSION DIE UNF- (17)

SCALE : 1/2" = 1"



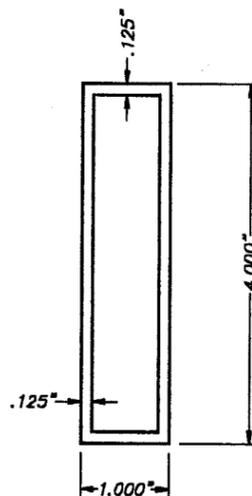
EXTRUSION DIE UNF- (17R)

SCALE : 1/2" = 1"



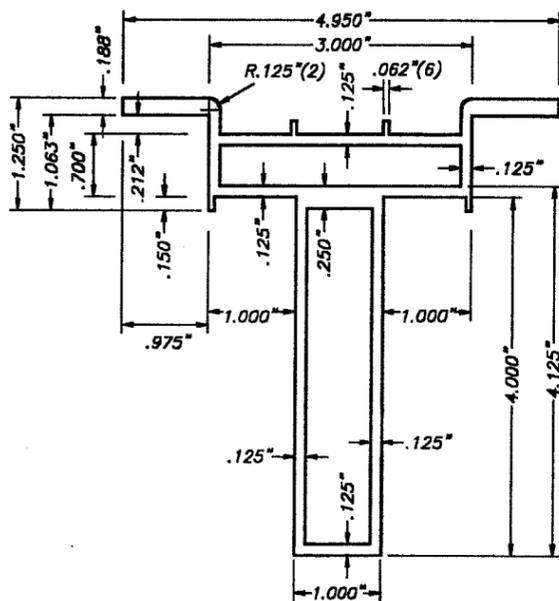
EXTRUSION DIE UNF- (9)

SCALE : 1/2" = 1"



EXTRUSION DIE UNF- (11)

SCALE : 1/2" = 1"



ALTERNATE (9) + (11)

SCALE : 1/2" = 1"

NOMENCLATURE

TYPE	COMPONENT
RETROFIT FRAME	(21), (17) OR (17R)
REMOVABLE STORM BAR	(9) + (11)

GENERAL NOTES:

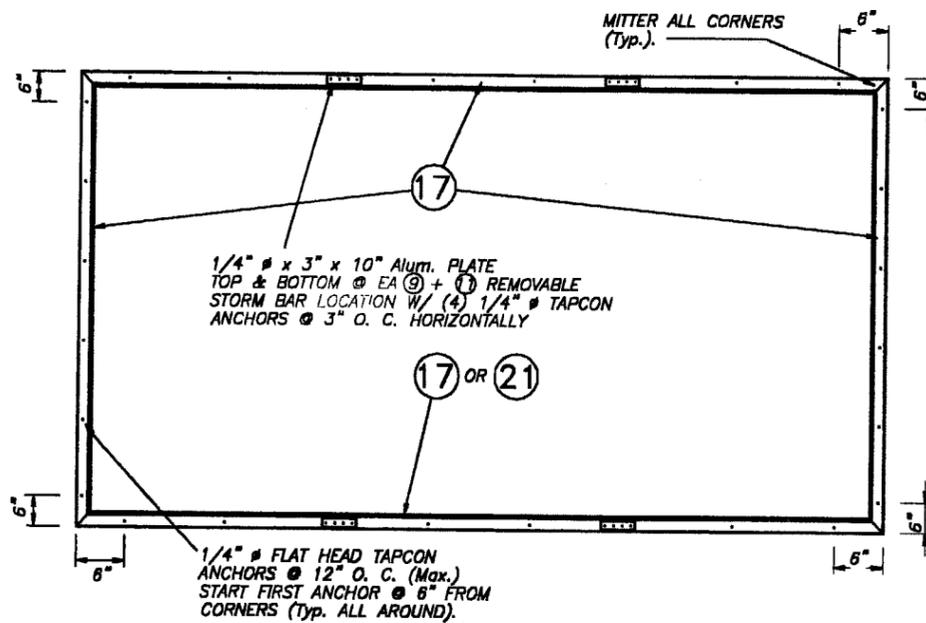
- DURAFRAME 2000 / RETROFIT HAS BEEN DESIGNED IN ACCORDANCE WITH THE DADE COUNTY, 1994 EDITION OF THE SOUTH FLORIDA BUILDING CODE. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 6 OF ASCE 7-88, WITH 110 m.p.h. BASIC WIND SPEED. DURAFRAME 2000 / RETROFIT'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 2315 & 2314 RESPECTIVELY OF THE ABOVE MENTIONED CODE.
- SEE SHEETS 7 & 8 OF 9 FOR P-20 PANEL SYSTEM DETAILS.
- ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY (UNLESS OTHERWISE NOTED).
- ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES OR ZINC COATED STEEL W/ 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH.
- BOLTS TO BE STAINLESS STEEL OR ZINC COATED STEEL WITH 35 ksi MINIMUM YIELD POINT.
- ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)
 - (A) TO EXISTING POURED CONCRETE:
 - 1/4" # TAPCON ANCHORS, AS MANUFACTURED BY I.T.W. BUILDDEX OR ELCO TEXTRON.
 - (B) TO EXISTING CONCRETE BLOCK WALL:
 - 1/4" # TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX OR ELCO TEXTRON.
 - (C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER AND SHALL HAVE A Min. PENETRATION OF 1 3/4" INTO BLOCK OR CONCRETE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE FRAME IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.
- SHUTTER'S MANUFACTURER STAMP SHALL BE PLACED ON THE EXPOSED SURFACE OF THE FRAME (17), (17R) OR (21), AND P-20 PANEL. TWO LABELS SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:
DURAFRAME
WEST PALM BEACH, FLORIDA
DADE COUNTY PRODUCT CONTROL APPROVED.
- PATENT PENDING :
U. S. PATENT NUMBERS 5,509,239; 5,524,403; 5,533,308; 5,522,190; 5,465,537.
©COPYRIGHT 1997 DURAFRAME WINDOW SHUTTER SYSTEMS, INC.®
RESERVES ALL RIGHTS
- A WARNING NOTE SHALL BE PERMANENTLY STAMPED ON EACH PANEL ADVISING THE HOME OWNER OR TENANT THAT THE SHUTTER PANELS ARE TO BE INSTALLED ONLY FOR THE DURATION OF A HURRICANE WARNING PERIOD AND ARE NOT INTENDED FOR SEASONAL OR PERMANENT INSTALLATIONS WITH PROLONG EXPOSURE TO WEATHERING CONDITIONS.

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE 04/23/2001
BY *Heung H. ...*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0206-24

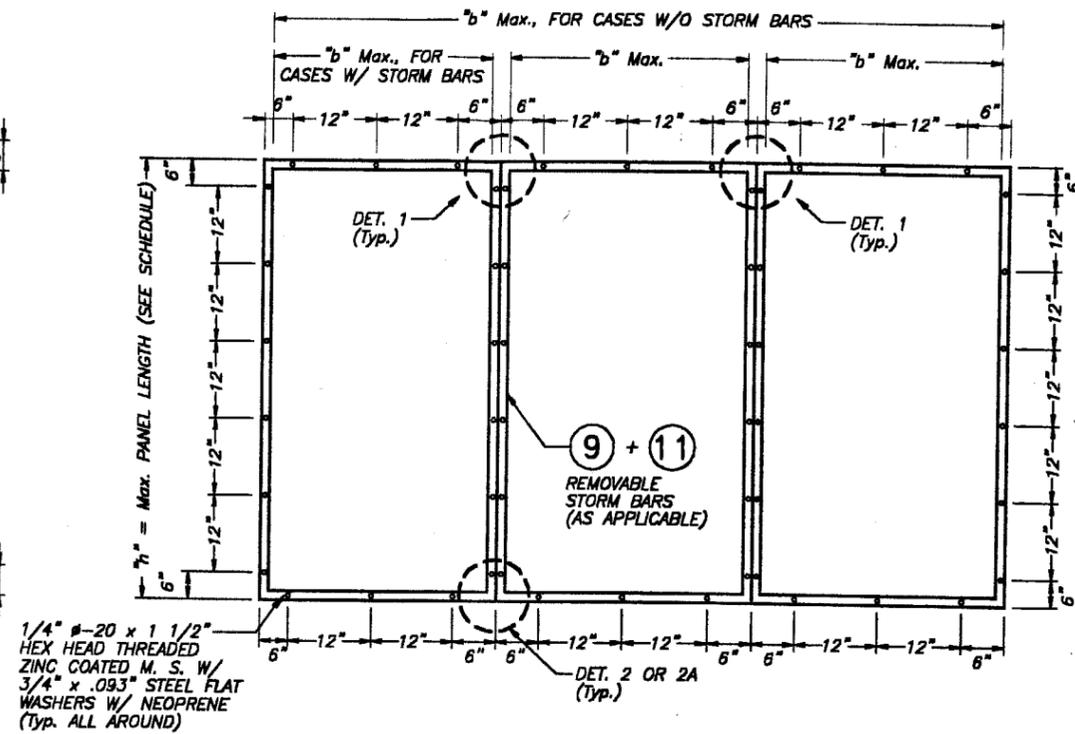
MIAMI-DADE COUNTY

 TILECO INC. TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 - Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P. E. FLORIDA Lic. # 44167	DURAFRAME 2000 / RETROFIT DURAFRAME 2000, INC. 6001 Georgia Avenue / Suite 9 WEST PALM BEACH, FLORIDA 33405	AS SHOWN SCALE 4/18/01 DATE 01-078 DRAWING No																	
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE														
1	OLD 97-83	4/18/01	2																
2			4																

David ...
4/18/01

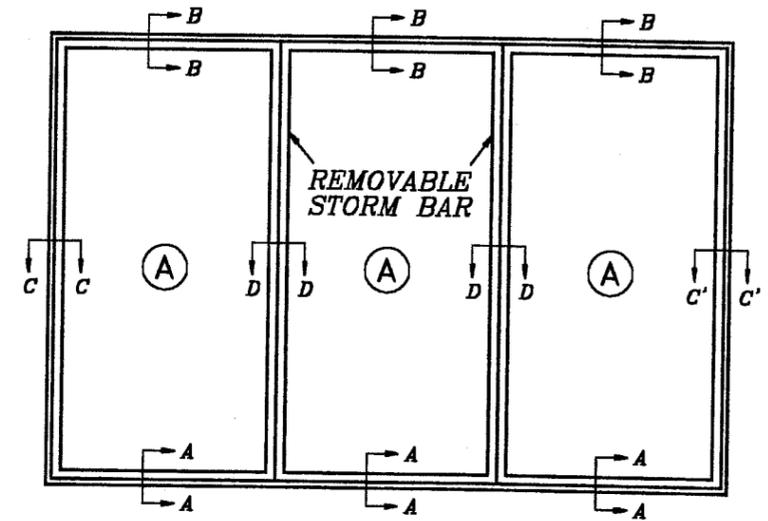


**RETROFIT FRAME ANCHORAGE TO EXISTING C. B. S. BUILDING
W/ OR W/O REMOVABLE STORM BAR (ELEVATION 1A) N. T. S.**



**P-20 PANEL ANCHORAGE TO RETROFIT FRAME W/ OR
W/O REMOVABLE STORM BARS (ELEVATION 2A) N. T. S.**

**b = MAXIMUM PANEL WIDTH (SEE SCHEDULE)
h = MAXIMUM PANEL LENGTH (SEE SCHEDULE)**



**RETROFIT FRAME, REMOVABLE STORM BARS &
P-20 PANEL (ELEVATION 3A) N. T. S.**

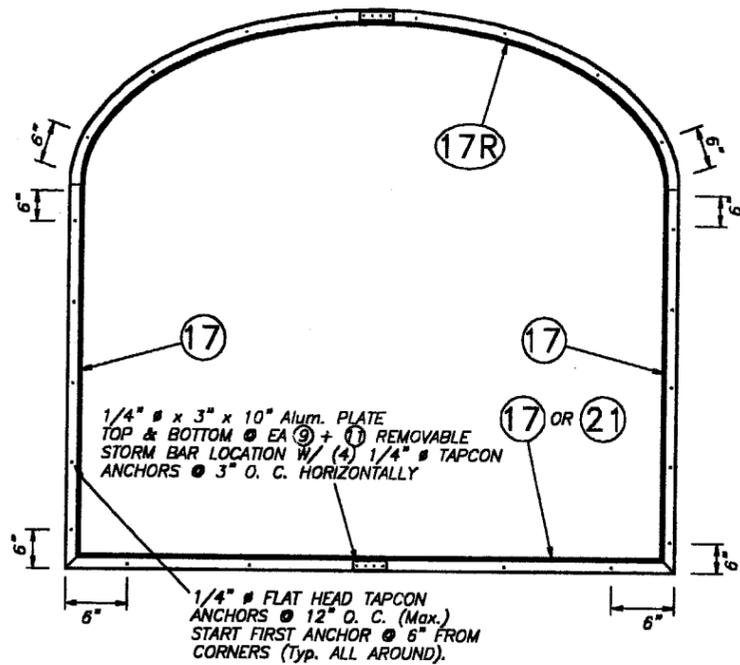
(A) IS P-20 PANEL

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE 04/23/2001
BY Heather A. Walker
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0206-24

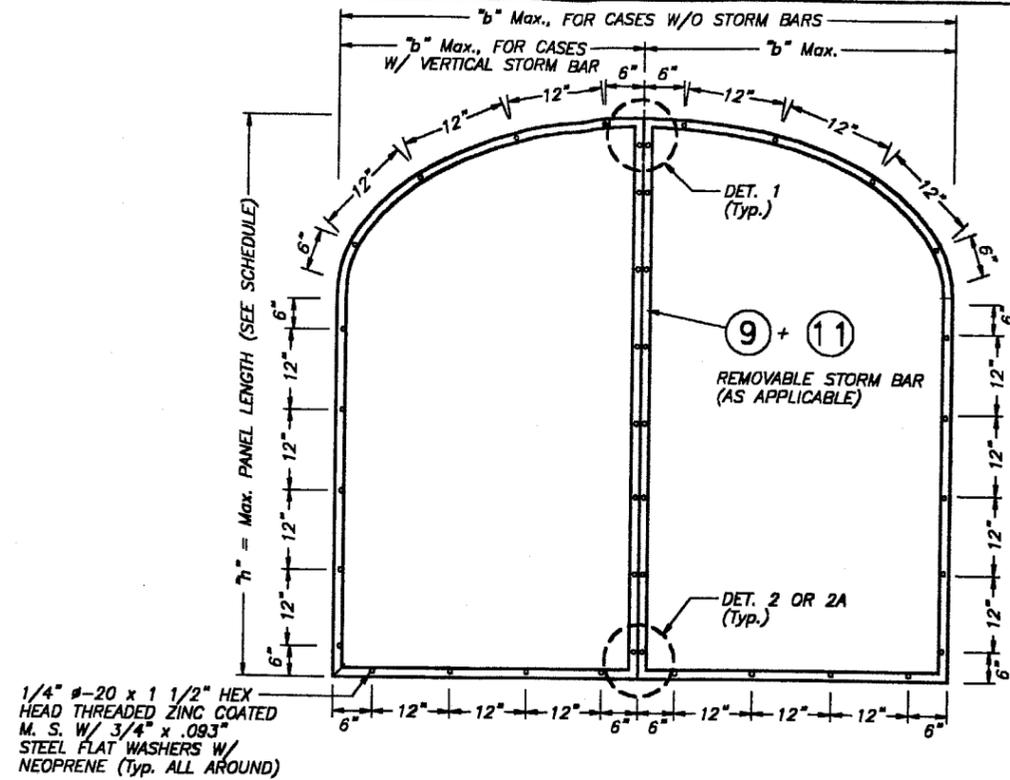
MIAMI-DADE COUNTY

 TILECO INC. TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167	DURAFRAME 2000 / RETROFIT		AS SHOWN SCALE
	DURAFRAME 2000, INC. 8001 Georgia Avenue / Suite 9 WEST PALM BEACH, FLORIDA 33405		4/18/01 DATE
REV. No. DESCRIPTION DATE REV. No. DESCRIPTION DATE 1 OLD 97-83 4/18/01 3 2 - - 4			01-078 DRAWING No
			SHEET 2 OF 9

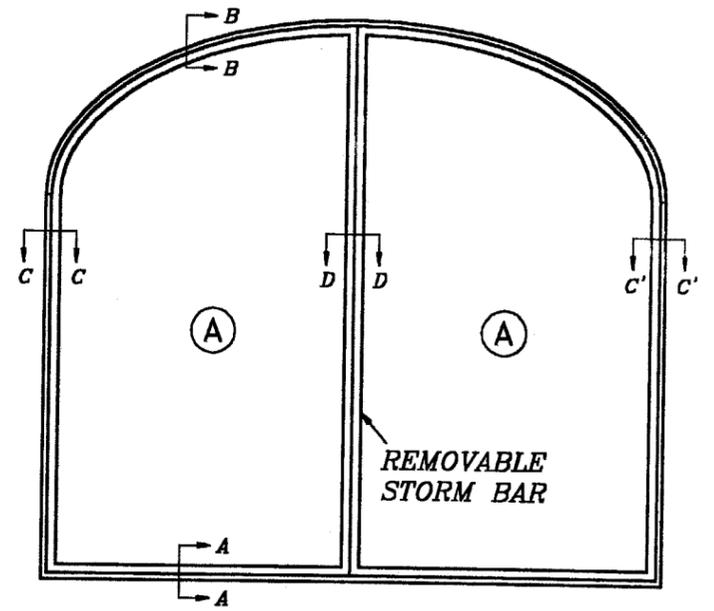
David D
4/18/01



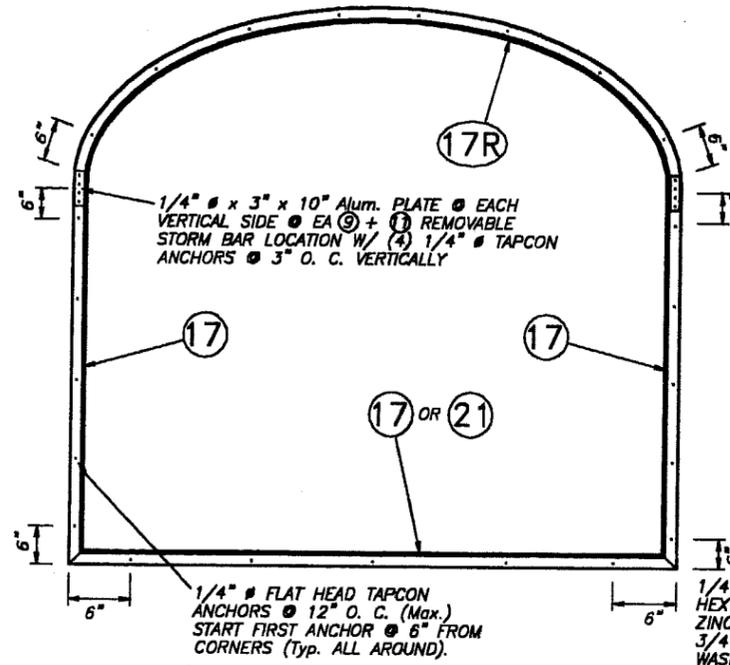
RETROFIT FRAME ANCHORAGE TO EXISTING C. B. S. BUILDING W/ OR W/O REMOVABLE STORM BAR (ELEVATION 1B) N. T. S.



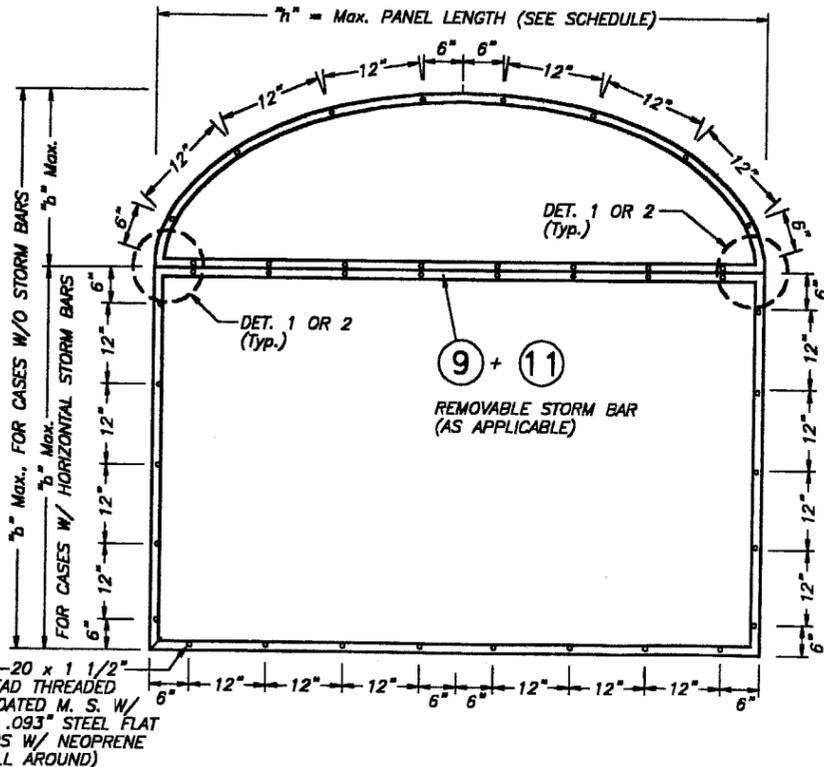
P-20 PANEL ANCHORAGE TO RETROFIT FRAME W/ OR W/O REMOVABLE STORM BARS (ELEVATION 2B) N. T. S.
 b = MAXIMUM PANEL WIDTH (SEE SCHEDULE)
 h = MAXIMUM PANEL LENGTH (SEE SCHEDULE)



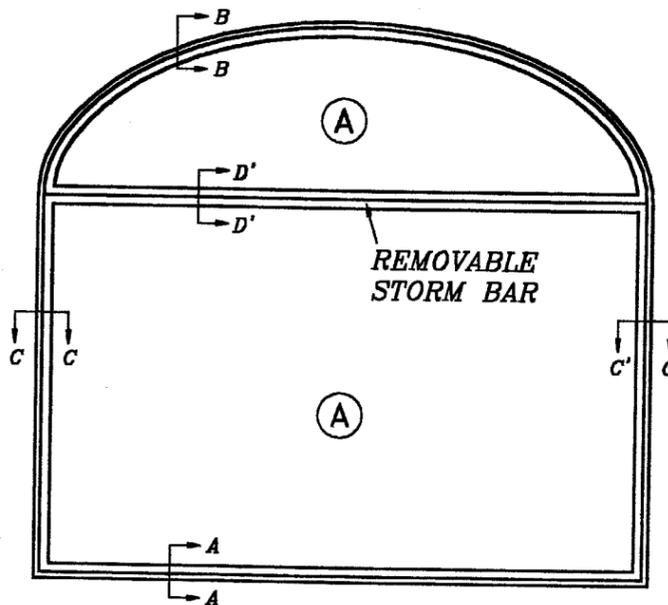
RETROFIT FRAME, REMOVABLE STORM BARS & P-20 PANEL (ELEVATION 3B) N. T. S.
 (A) IS P-20 PANEL



RETROFIT FRAME ANCHORAGE TO EXISTING C. B. S. BUILDING W/ OR W/O REMOVABLE STORM BAR (ELEVATION 1C) N. T. S.



P-20 PANEL ANCHORAGE TO RETROFIT FRAME W/ OR W/O REMOVABLE STORM BARS (ELEVATION 2C) N. T. S.
 b = MAXIMUM PANEL WIDTH (SEE SCHEDULE)
 h = MAXIMUM PANEL LENGTH (SEE SCHEDULE)



RETROFIT FRAME, REMOVABLE STORM BARS & P-20 PANEL (ELEVATION 3C) N. T. S.
 (A) IS P-20 PANEL

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE 04/23/2001
 BY *Heather A. Miller*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0206.24

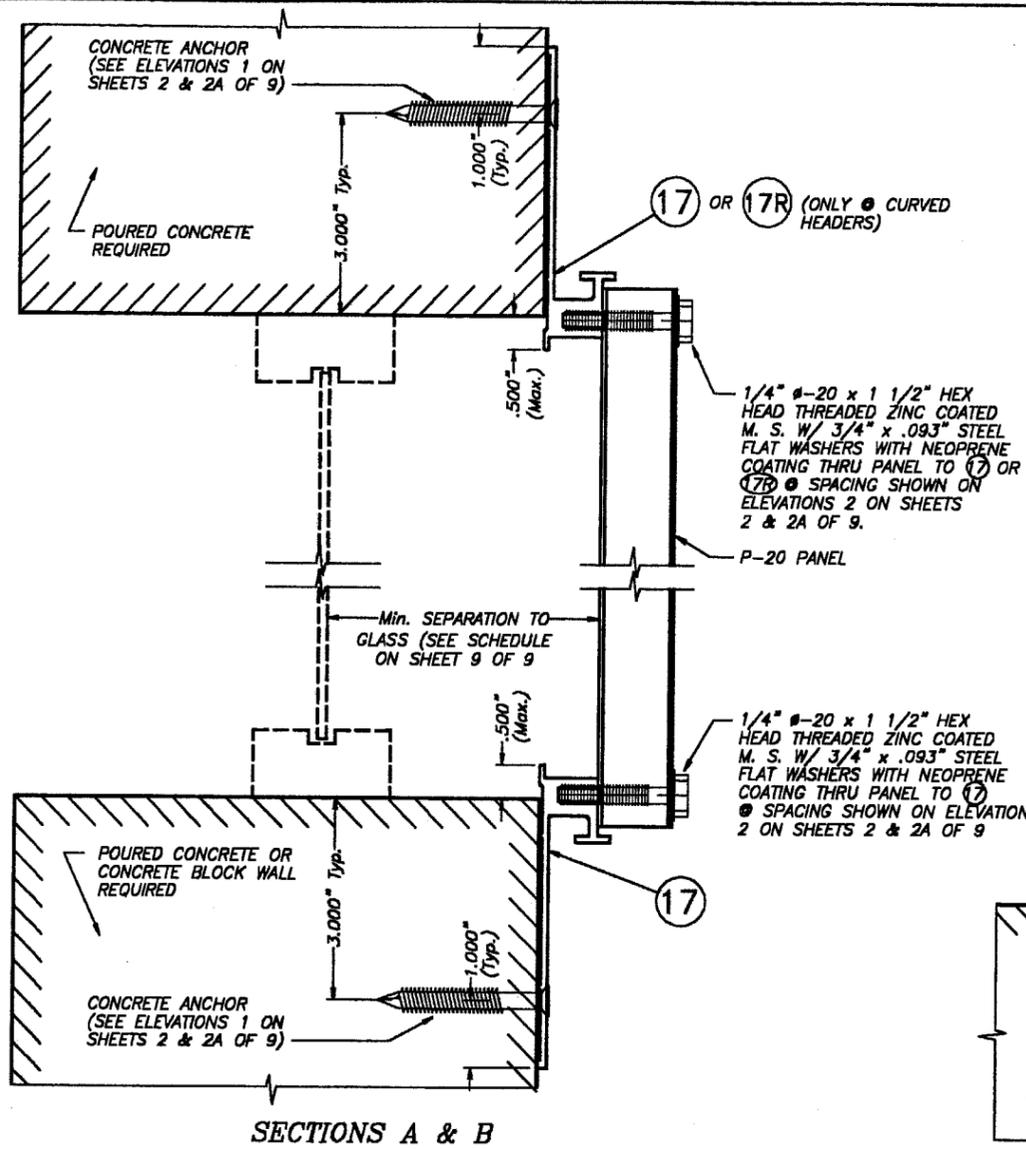
MIAMI-DADE COUNTY

TILECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166
 Phone: (305)871-1530, Fax: (305)871-1931
 EB-0006719
 WALTER A. TILLIT, Jr., P. E.
 FLORIDA Lic. # 44167

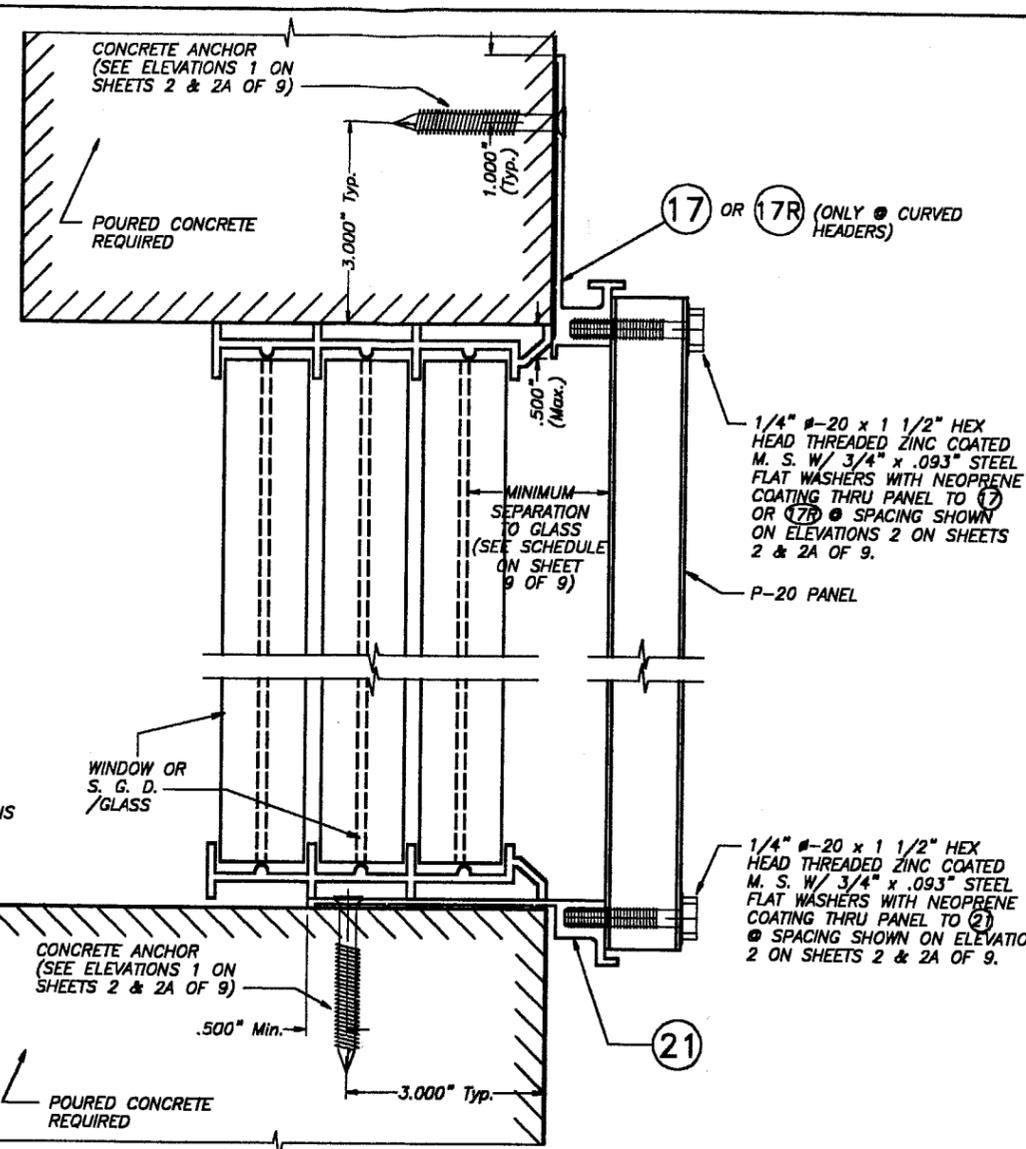
DURAFRAME 2000 / RETROFIT					
DURAFRAME 2000, INC.					
6001 Georgia Avenue / Suite 9 WEST PALM BEACH, FLORIDA 33405					
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

AS SHOWN SCALE
4/18/01 DATE
01-078 DRAWING No
SHEET 2A OF 9

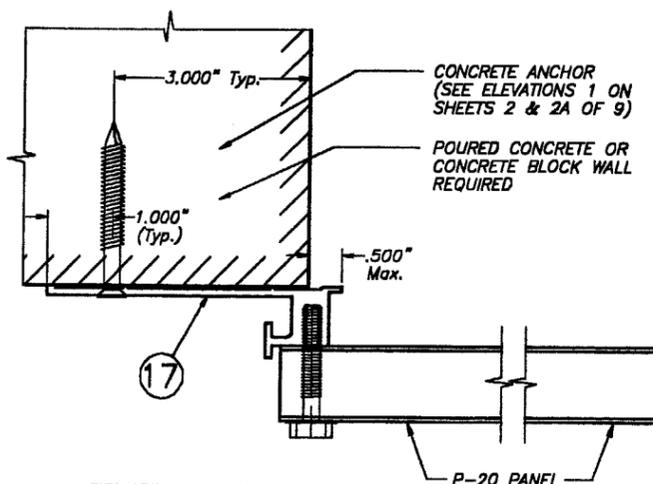
Dawson
 4/18/01



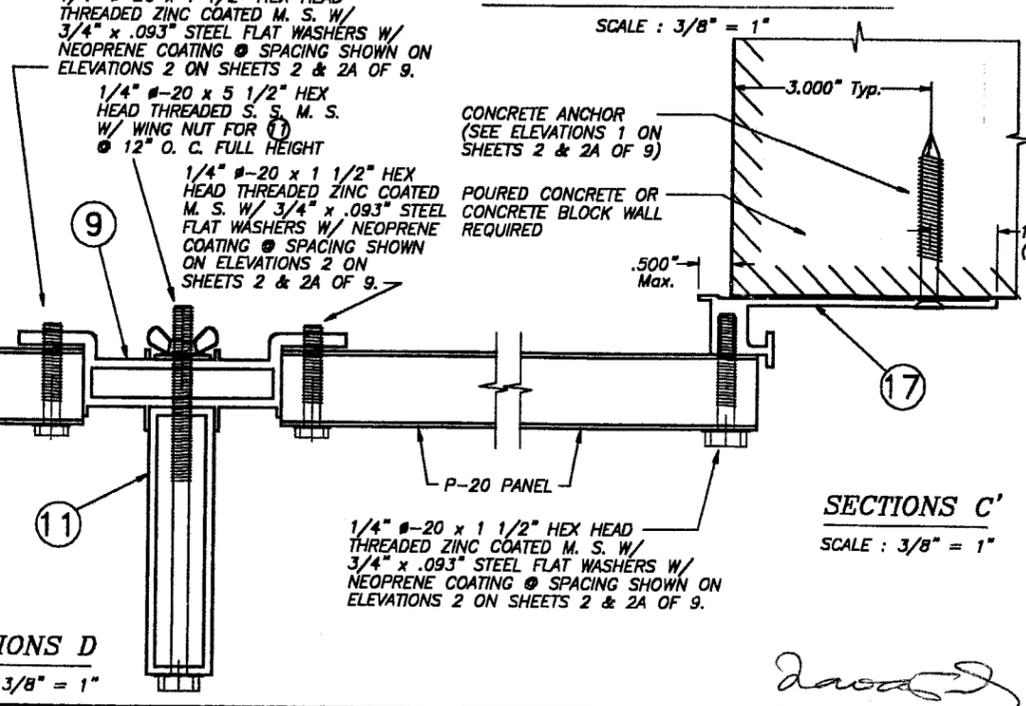
SECTIONS A & B
SCALE : 3/8" = 1"



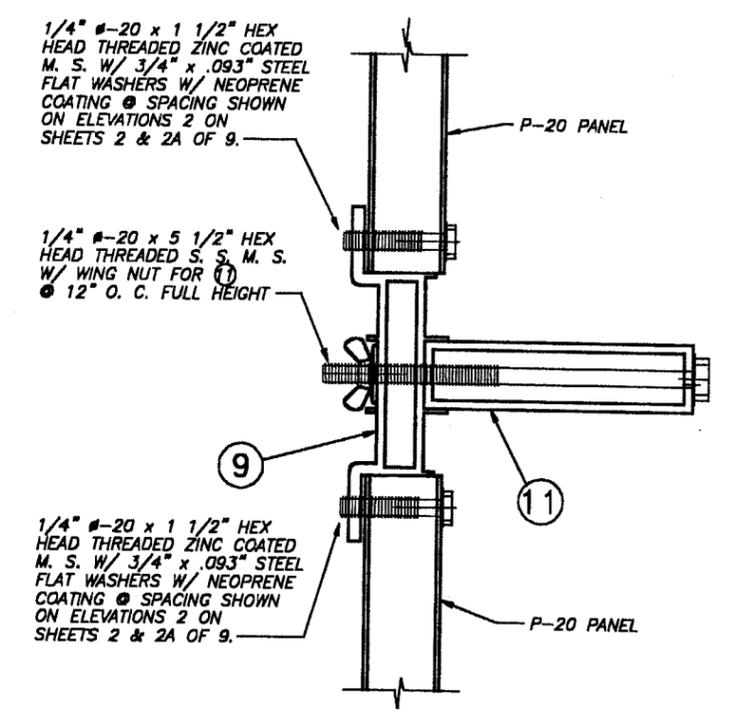
ALTERNATE SECTIONS A & B
SCALE : 3/8" = 1"



SECTIONS C
SCALE : 3/8" = 1"



SECTIONS D
SCALE : 3/8" = 1"



SECTIONS D'
SCALE : 3/8" = 1"

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE 04/23/2001
BY *Herbert H. Walker*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0206.24

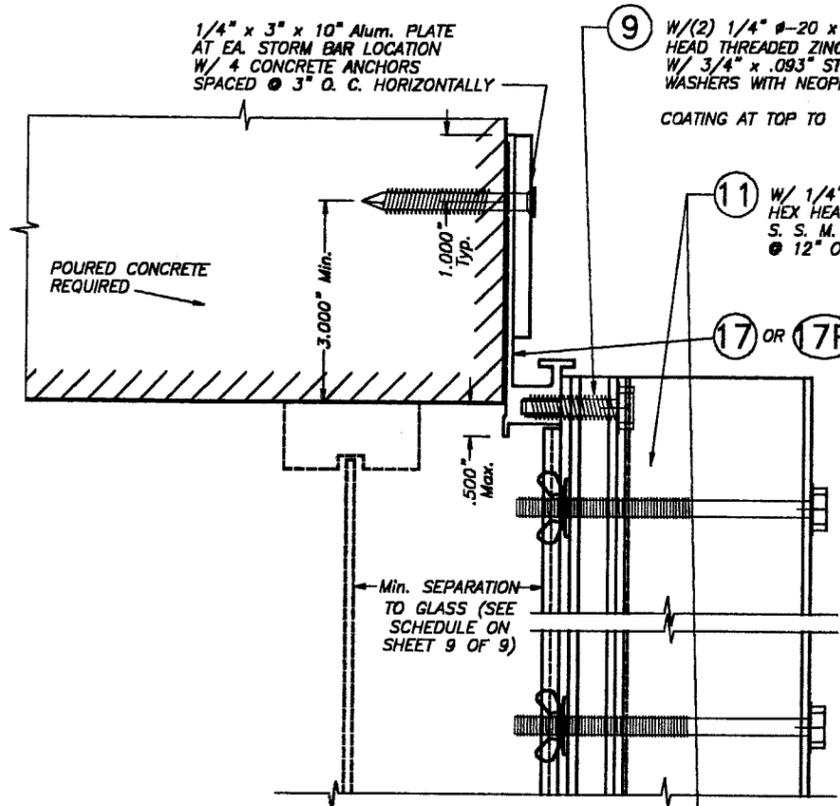
MIAMI-DADE COUNTY

TILECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33186
Phone : (305)871-1530 . Fax : (305)871-1531
EB-0006719
WALTER A. TILLIT Jr. P. E.
FLORIDA Lic. # 44167

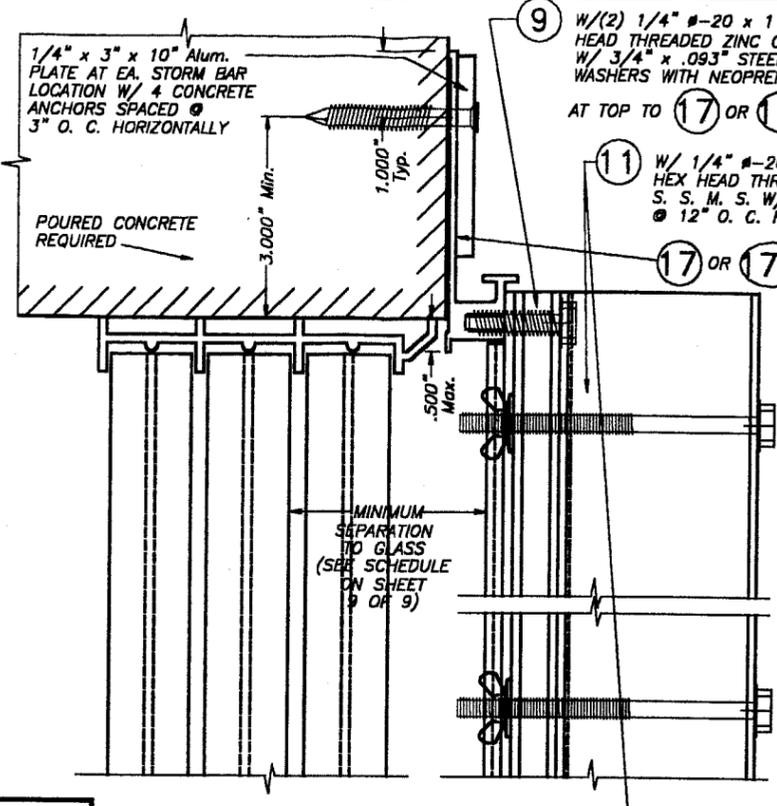
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DURAFRAME 2000, INC.		4/18/01 DATE	
6001 Georgia Avenue / Suite 9 WEST PALM BEACH, FLORIDA 33405		01-078 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No
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2	-	-	4

01-078	DRAWING No
SHEET 3 OF 9	

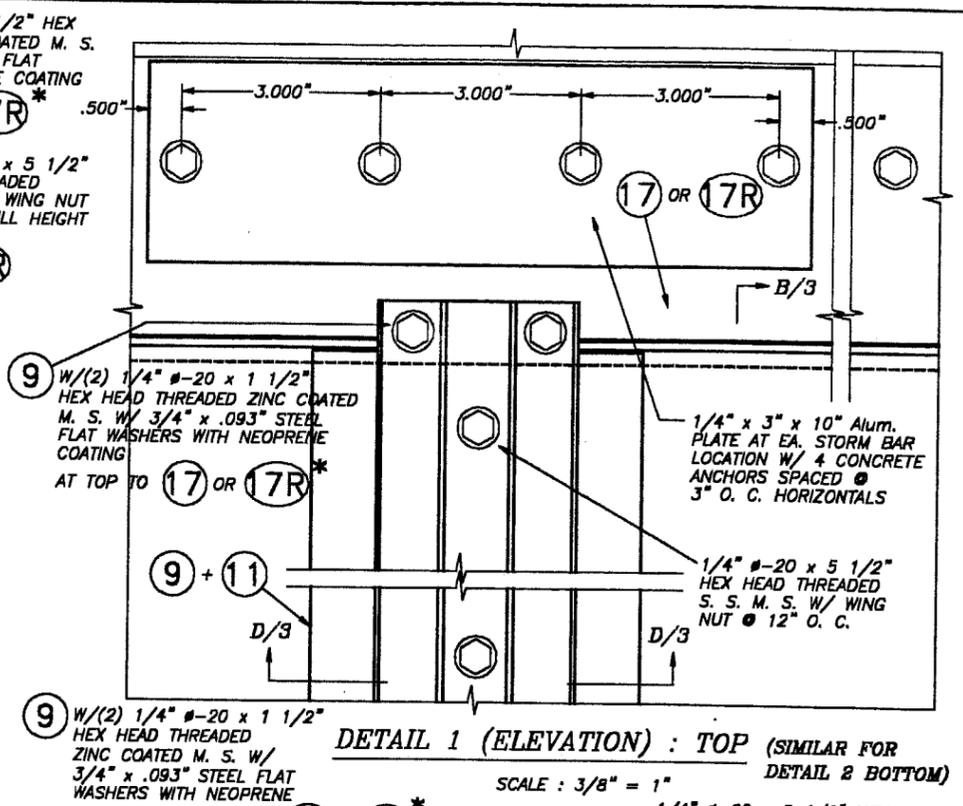
David
4/18/01



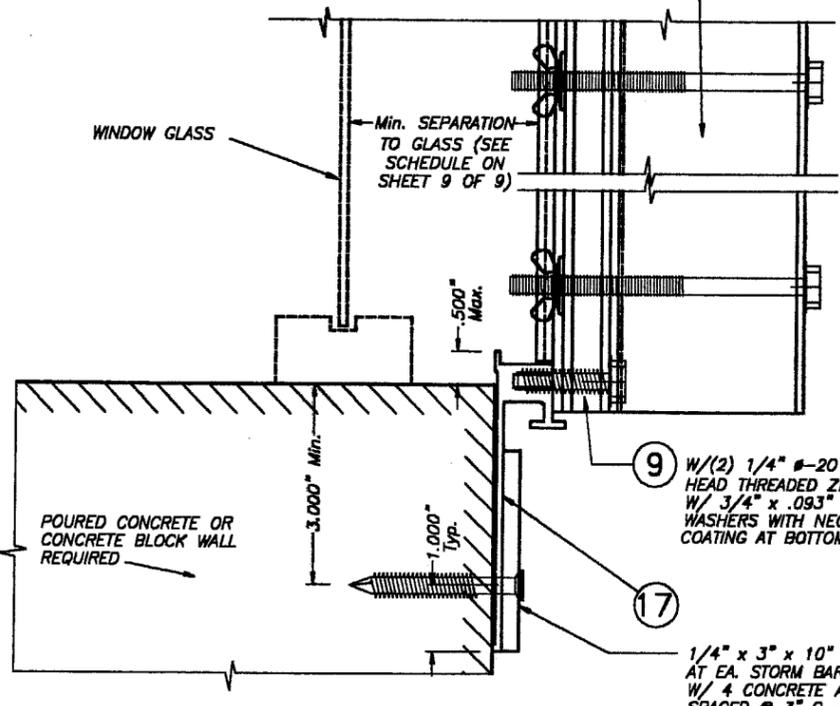
DETAIL 1 (SECTION)
SCALE : 3/8" = 1"



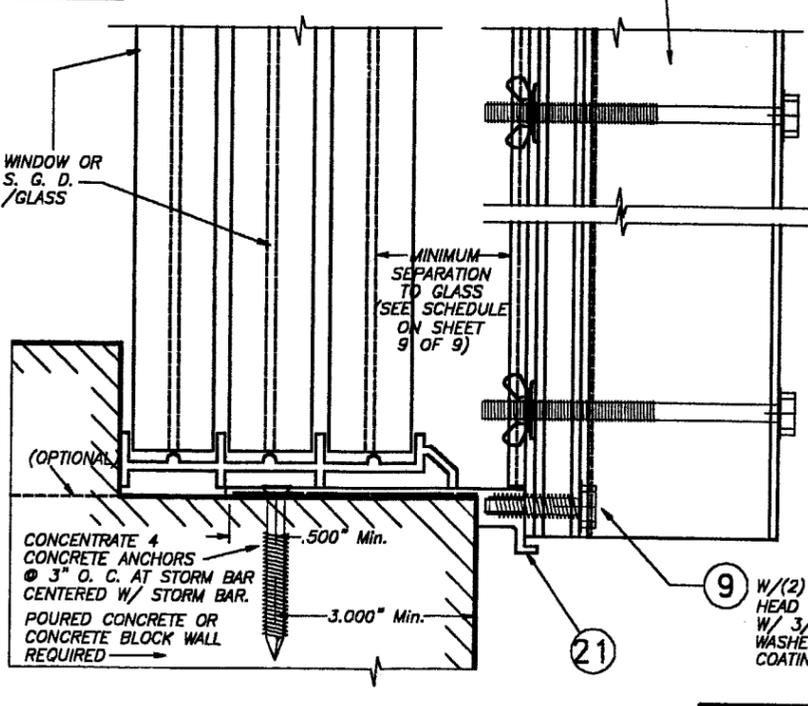
DETAIL 1 (SECTION)
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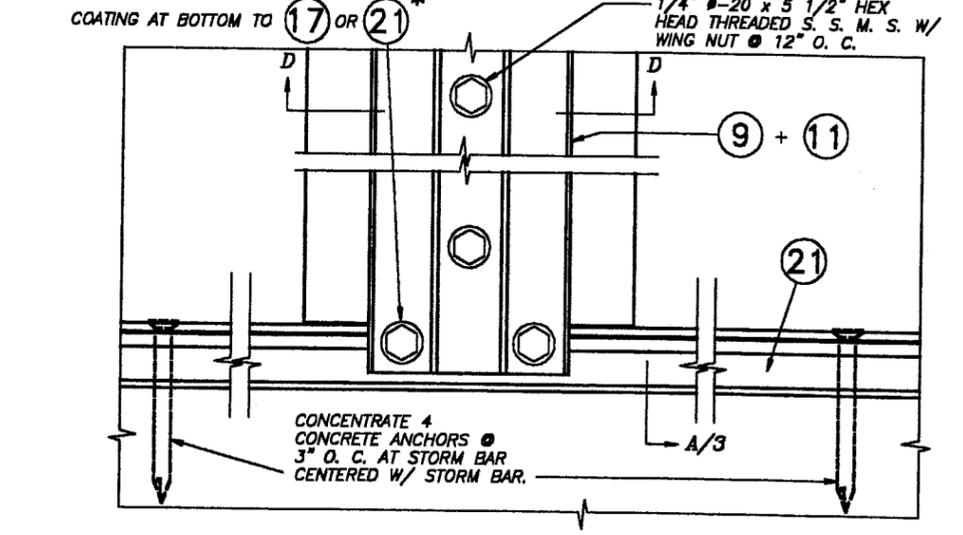
DETAIL 1 (ELEVATION) : TOP (SIMILAR FOR DETAIL 2 BOTTOM)
SCALE : 3/8" = 1"



DETAIL 2 (SECTION)
SCALE : 3/8" = 1"



DETAIL 2A (SECTION)
SCALE : 3/8" = 1"



DETAIL 2A (ELEVATION) : BOTTOM
SCALE : 3/8" = 1"

NOTE :
P-20 PANEL NOT SHOWN FOR CLARITY AT ALL DETAILS.

* NOTE :
CONNECTION OF REMOVABLE STORM BARS TO RETROFIT SHALL BE PERFORMED TOP & BOTTOM OF STORM BAR BY MEANS OF MANUAL TOOLS AND NEVER WITH POWER TOOLS.

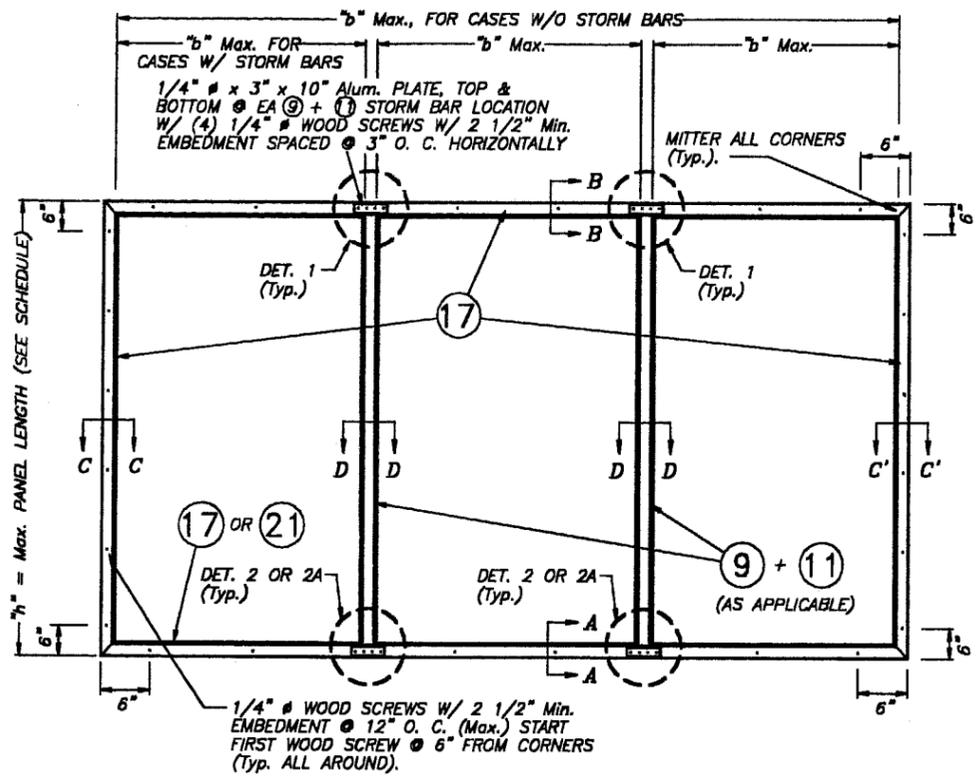
APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE 04/23/2001
BY *Helmut H. Miller*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0206.24
MIAMI-DADE COUNTY

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6585 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 Fax : (305)871-1531
EB-0006719
WALTER A. TILLIT Jr. P. E.
FLORIDA Lic. # 44167

DURAFRAME 2000 / RETROFIT					
DURAFRAME 2000, INC.					
8001 Georgia Avenue / Suite 8 WEST PALM BEACH, FLORIDA 33405					
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 97-83	4/18/01	2		
2			4		

AS SHOWN SCALE
4/18/01 DATE
01-078 DRAWING No
SHEET 4 OF 9

David
4/18/01

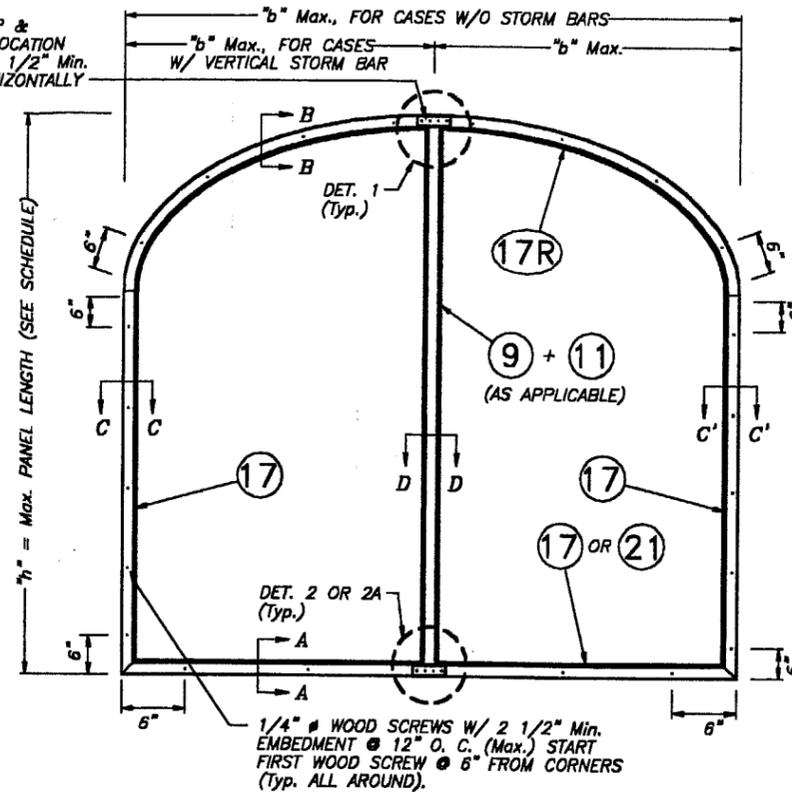


RETROFIT FRAME ANCHORAGE TO NEW WOOD FRAME BUILDINGS

W/ OR W/O REMOVABLE STORM BAR (ELEVATION 1A) N. T. S.

b = MAXIMUM PANEL WIDTH (SEE SCHEDULE)
h = MAXIMUM PANEL LENGTH (SEE SCHEDULE)

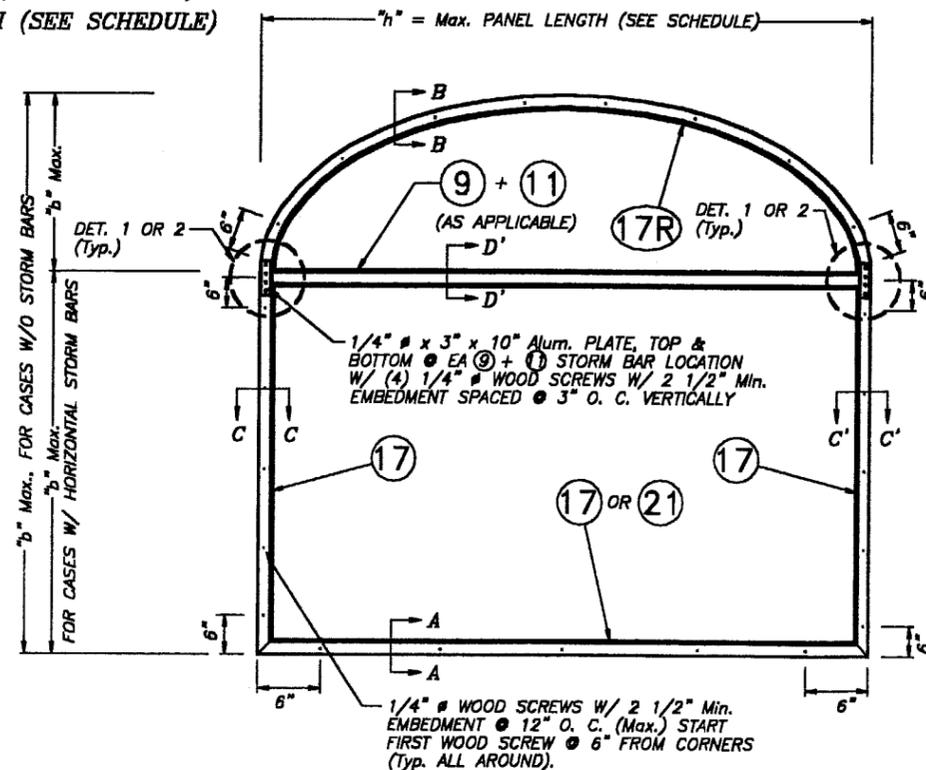
1/4" # x 3" x 10" Alum. PLATE, TOP & BOTTOM @ EA ⑨ + ⑩ STORM BAR LOCATION W/ (4) 1/4" # WOOD SCREWS W/ 2 1/2" Min. EMBEDMENT SPACED @ 3" O. C. HORIZONTALLY



RETROFIT FRAME ANCHORAGE TO NEW WOOD FRAME BUILDINGS

W/ OR W/O REMOVABLE STORM BAR (ELEVATION 1B) N. T. S.

b = MAXIMUM PANEL WIDTH (SEE SCHEDULE)
h = MAXIMUM PANEL LENGTH (SEE SCHEDULE)



RETROFIT FRAME ANCHORAGE TO NEW WOOD FRAME BUILDINGS

W/ OR W/O REMOVABLE STORM BAR (ELEVATION 1C) N. T. S.

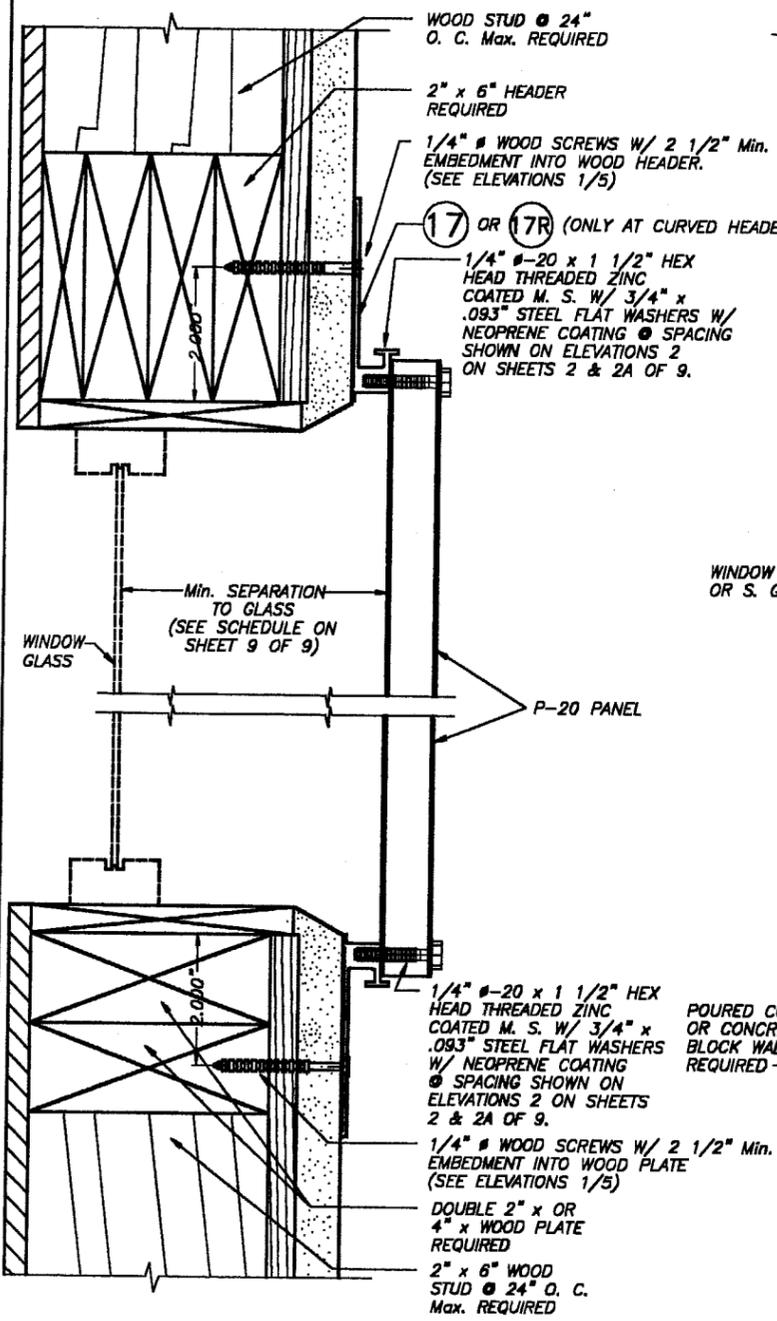
b = MAXIMUM PANEL WIDTH (SEE SCHEDULE)
h = MAXIMUM PANEL LENGTH (SEE SCHEDULE)

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE 04/23/2001
 BY Helmut A. Weber
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0206.24

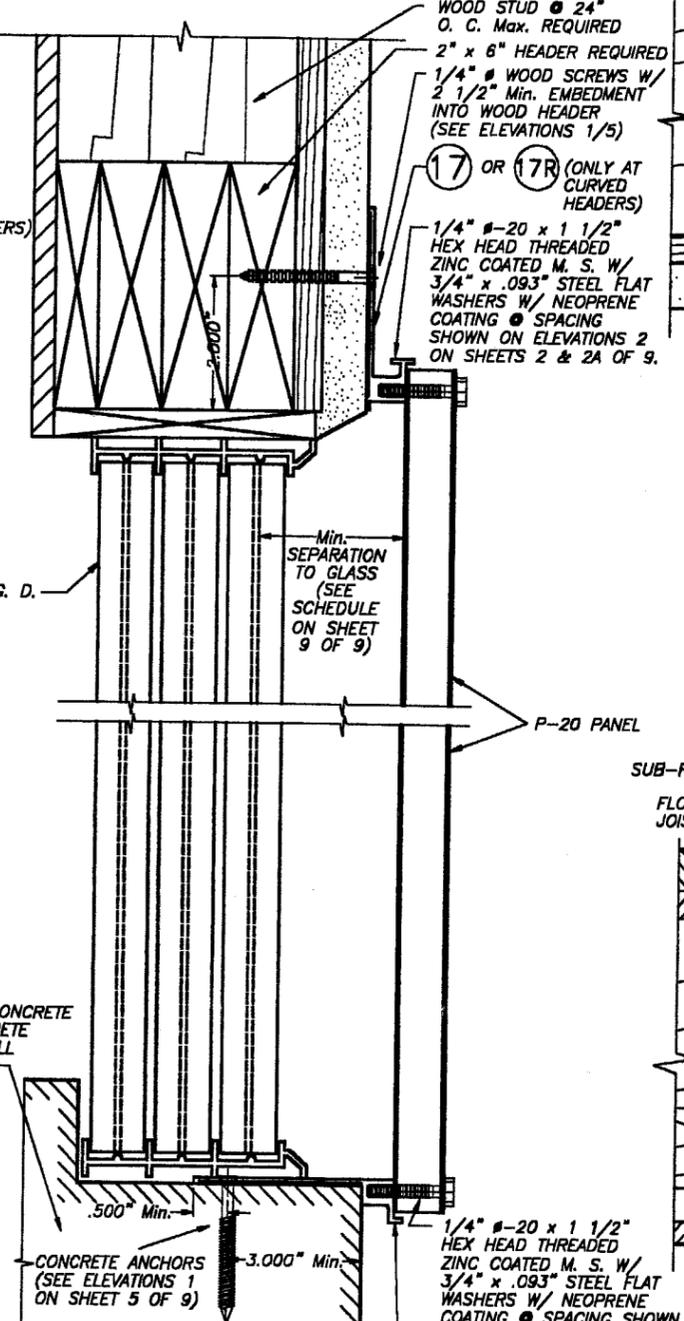
MIAMI-DADE COUNTY

 TILECO Inc. <small>TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P. E. FLORIDA Lic. # 44167</small>	DURAFRAME 2000 / RETROFIT		AS SHOWN SCALE
	DURAFRAME 2000, INC. <small>6001 Georgia Avenue / Suite 9 WEST PALM BEACH, FLORIDA 33405</small>		4/18/01 DATE
REV. No. DESCRIPTION DATE REV. No. DESCRIPTION DATE			01-078 DRAWING No
1	OLD 97-83	4/18/01	3
2	-	-	4
			SHEET 5 OF 9

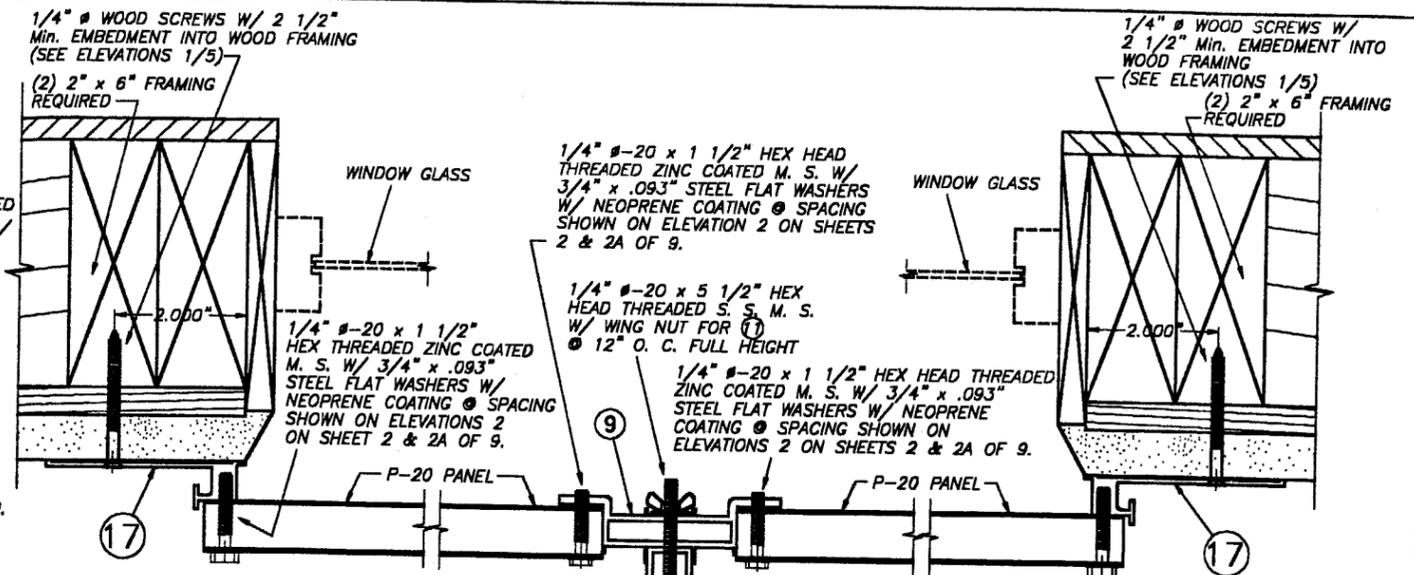
David B.
 4/18/01



SECTIONS A (BOTTOM), B (TOP)



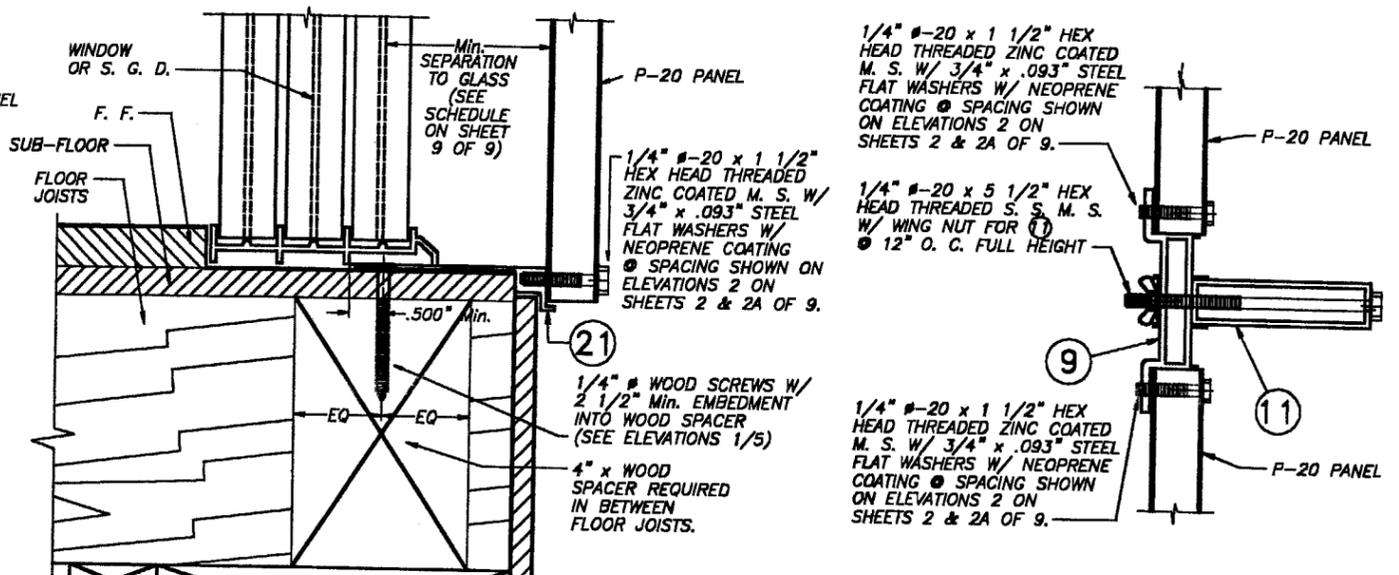
SECTION A (BOTTOM), B (TOP) (ALTERNATIVE)



SECTIONS C SCALE: 3/8" = 1"

SECTIONS D SCALE: 3/8" = 1"

SECTIONS C' SCALE: 3/8" = 1"



SECTION A (ALTERNATIVE FOR WOOD FLOOR)

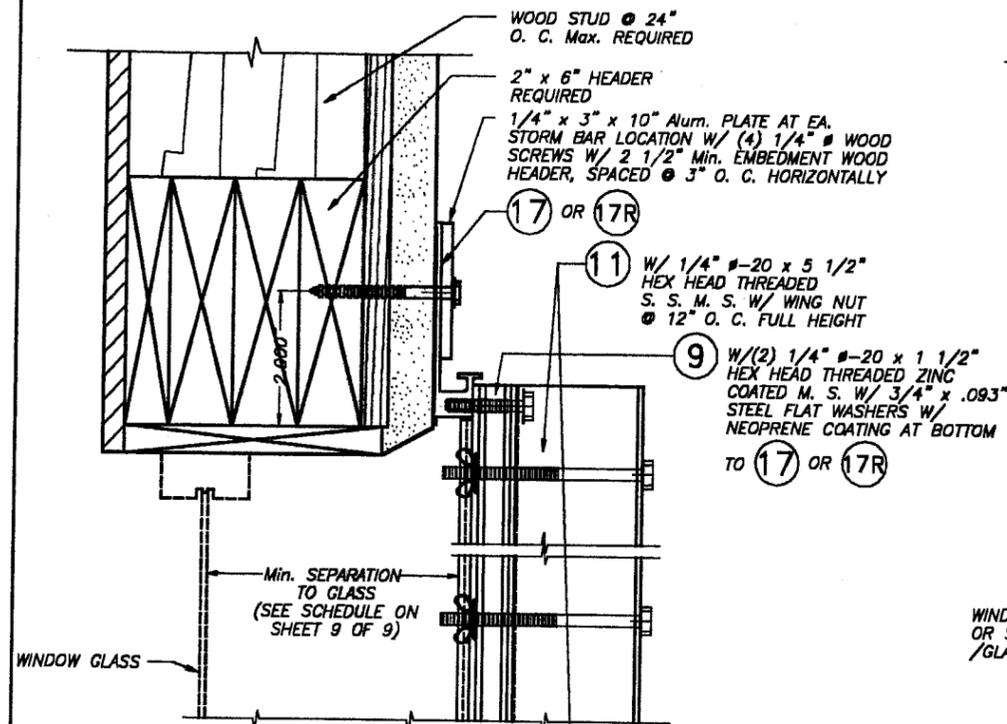
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE DATE 04/23/2001 BY *Heung A. Ma* PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 01-0206.24

SECTIONS D' SCALE: 3/8" = 1"

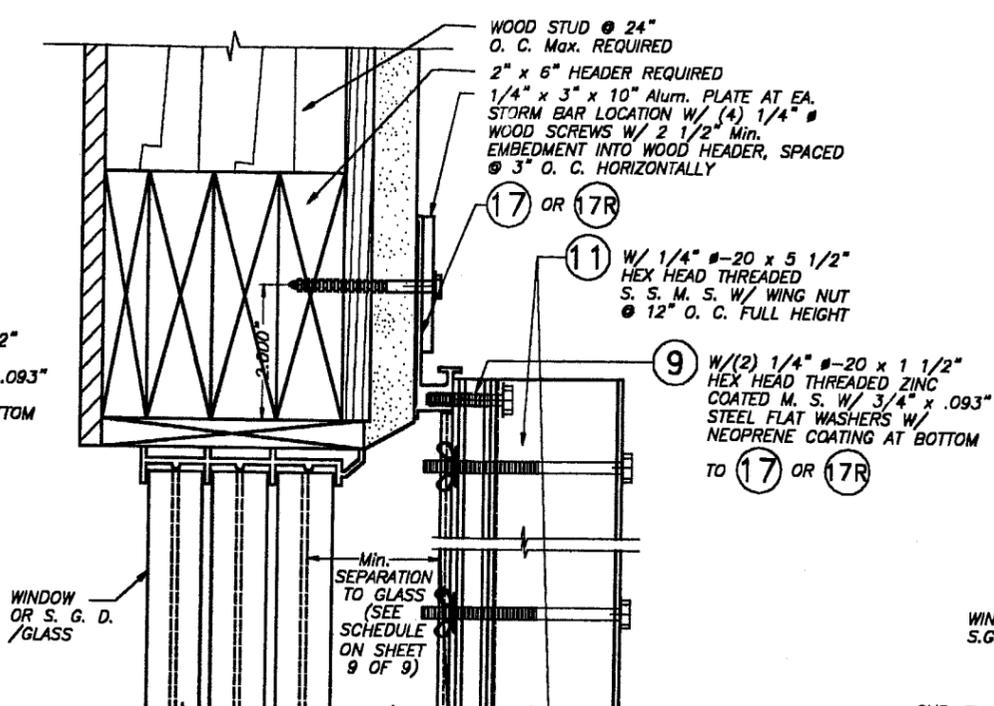
David
4/18/01

<p>TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 38th St., Ste. 217, VIRGINIA GARDENS, FL 33167 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr. P. E. FLORIDA Lic. # 44167</p>		<p>MIAMI-DADE COUNTY</p> <p>DURAFRAME 2000 / RETROFIT</p> <p>DURAFRAME 2000, INC. 8001 Georgia Avenue / Suite 9 WEST PALM BEACH, FLORIDA 33405</p>		<p>AS SHOWN SCALE</p>	
		<p>DATE 4/18/01</p>		<p>01-078 DRAWING No</p>	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 97-63	4/18/01	2		
2			4		

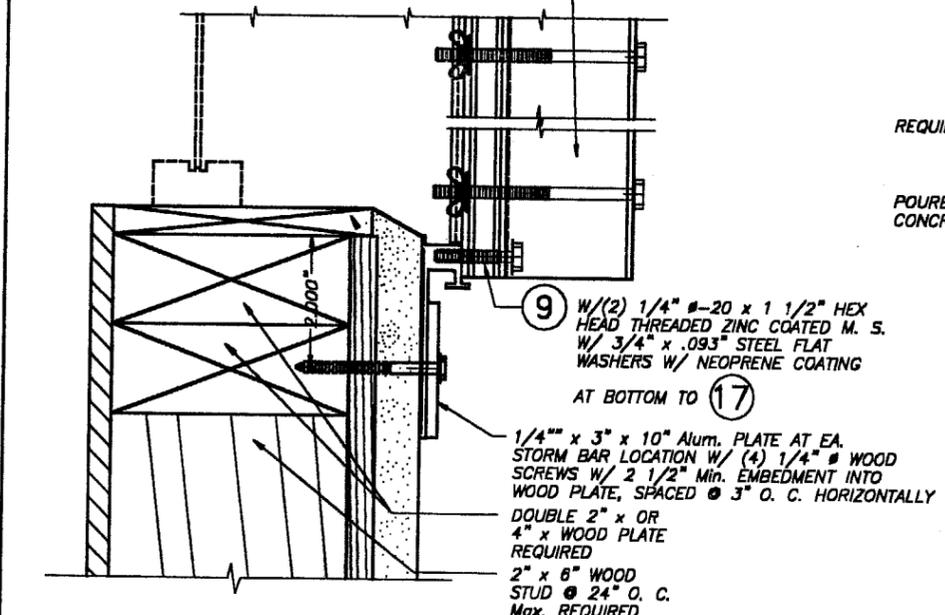
SHEET 5A OF 9



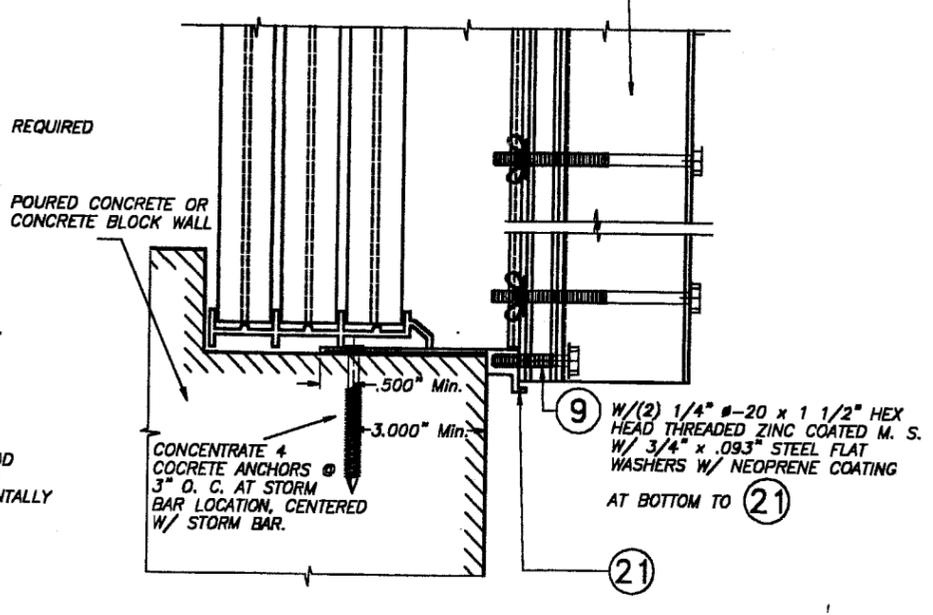
DETAIL 1 (SECTION)



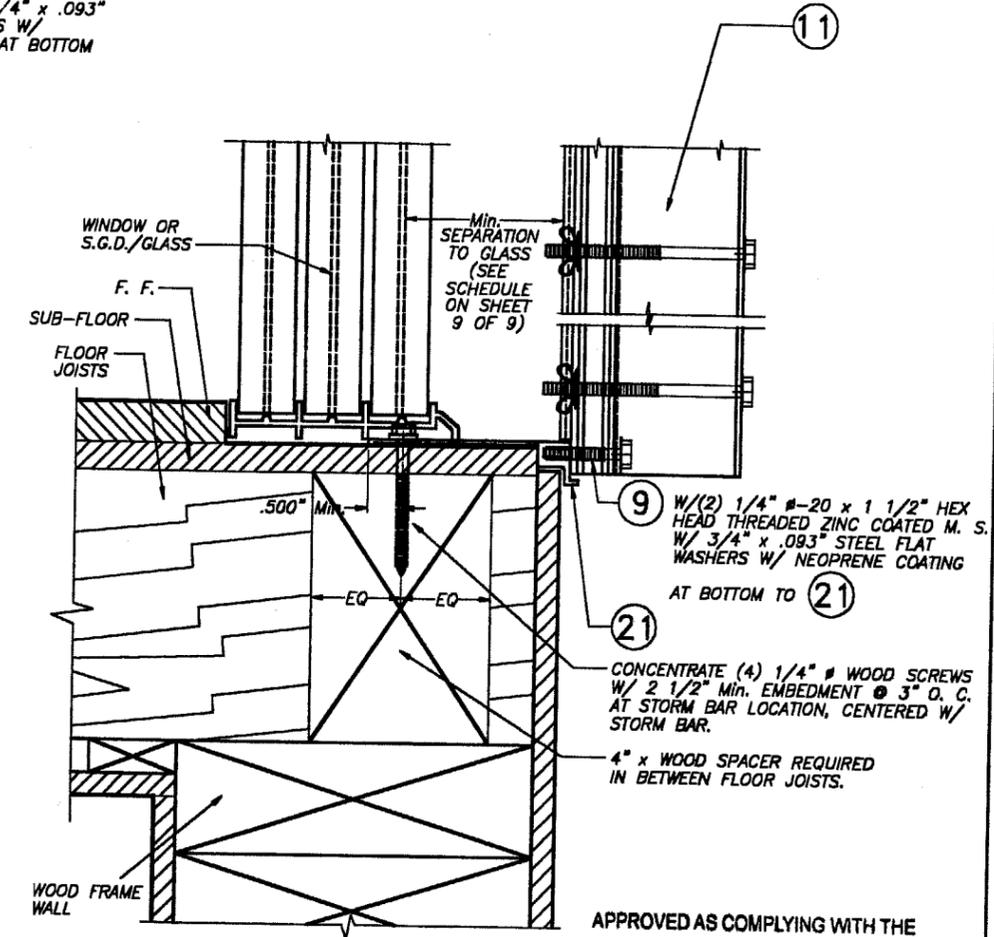
DETAIL 1 (SECTION)



DETAIL 2 (SECTION)



DETAIL 2A (SECTION)



DETAIL 2A (SECTION)
(ALTERNATIVE FOR WOOD FLOOR)

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE DATE 04/23/2001 BY *Helmut Adler* PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 01-0206.24

* NOTE : CONNECTION OF REMOVABLE STORM BARS TO RETROFIT SHALL BE PERFORMED TOP & BOTTOM OF STORM BAR BY MEANS OF MANUAL TOOLS AND NEVER WITH POWER TOOLS.

NOTE : P-20 PANEL NOT SHOWN FOR CLARITY AT ALL DETAILS.

Dave
4/18/01

<p>TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 Fax : (305)871-1531 EB-0008719 WALTER A. TILLIT, Jr., P. E. FLORIDA Lic. # 44167</p>		DURAFRAME 2000 / RETROFIT		AS SHOWN SCALE	
		<p>DURAFRAME 2000, INC. 6001 Georgia Avenue / Suite 9 WEST PALM BEACH, FLORIDA 33405</p>		4/18/01 DATE	
				01-078 DRAWING No	
				SHEET 6 OF 9	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 97-83	4/18/01	3		
2			4		

MIAMI-DADE COUNTY

GENERAL NOTES FOR P-20 PANEL :

- 0.030 IN THICK, EMBOSSED SHEET METAL ALUMINUM WITH A CRYSTAL COAT FINISH (3105-H14 ALLOY).
- 0.050 IN THICK EMBOSSED FIBER REINFORCED PLASTIC (FRP) SKIN CONSISTING OF GLASS FIBERS RANDOMLY CHOPPED IN 2 IN LENGTHS. THE MINIMUM WEIGHT OF GLASS FIBERS TO OVERALL PANEL IS 16 %. FIBER REINFORCED PLASTIC (FRP) SHALL BE AS MANUFACTURED BY KEMLITE COMPANY, P. O. BOX 2429, JOLIET, IL 60434.

MINIMUM FLEXURAL STRENGTH (ASTM D790)	: 22000 p.s.i.
MINIMUM FLEXURAL MODULUS (ASTM D790)	: 900,000 p.s.i.
MINIMUM TENSILE STRENGTH (ASTM D638)	: 9,500 p.s.i.
MINIMUM TENSILE MODULUS (ASTM-D638)	: 1,350,000 p.s.i.
MINIMUM BARCOL HARDNESS (ASTM D2583)	: 58
COEFFICIENT OF LINEAR THERMAL EXPANSION	: 1.57×10^{-5} (IN/IN/° F)
MINIMUM WATER ABSORPTION (ASTM D870)-24 Hrs.	: .1624 hrs. @ 71° F
SPECIFIC GRAVITY (ASTM D792)	: 1.8
MINIMUM SELF IGNITION TEMPERATURE (ASTM D1929-91A)	: 880° F
FLASH IGNITION TEMPERATURE (ASTM D1929-91A)	: 650° F
FLAME SPREAD INDEX (ASTM E-84-95)	: 70
SMOKE DEVELOPED VALUE (ASTM E-84-95)	: 130
RATING (ASTM D635)	: CLASS C-2
- 2 LAYERS OF 0.400 IN THICK, EXTRUDED TWIN WALL HIGH IMPACT POLYPROPYLENE COPOLYMER CROSS LAMINATED PLASTIC BOARD. THE .400" BOARD HAS A UNIT WEIGHT OF 2000 GRAMS PER SQ METER.
- (3) 8-10 MIL THICK LAMINATING OF PRIME 21 SERIES, TWO PART EXTERIOR GRADE STRUCTURAL ADHESIVE. THE ADHESIVE IS AN ISOCYANATE/POLYMER BASED PRODUCT.
- EXTRUDED TWIN WALL CORE SHALL BE AS MANUFACTURED BY INNOPAC COMPANY, 4501 SPRING VALLEY ROAD, DALLAS TEXAS 75244.

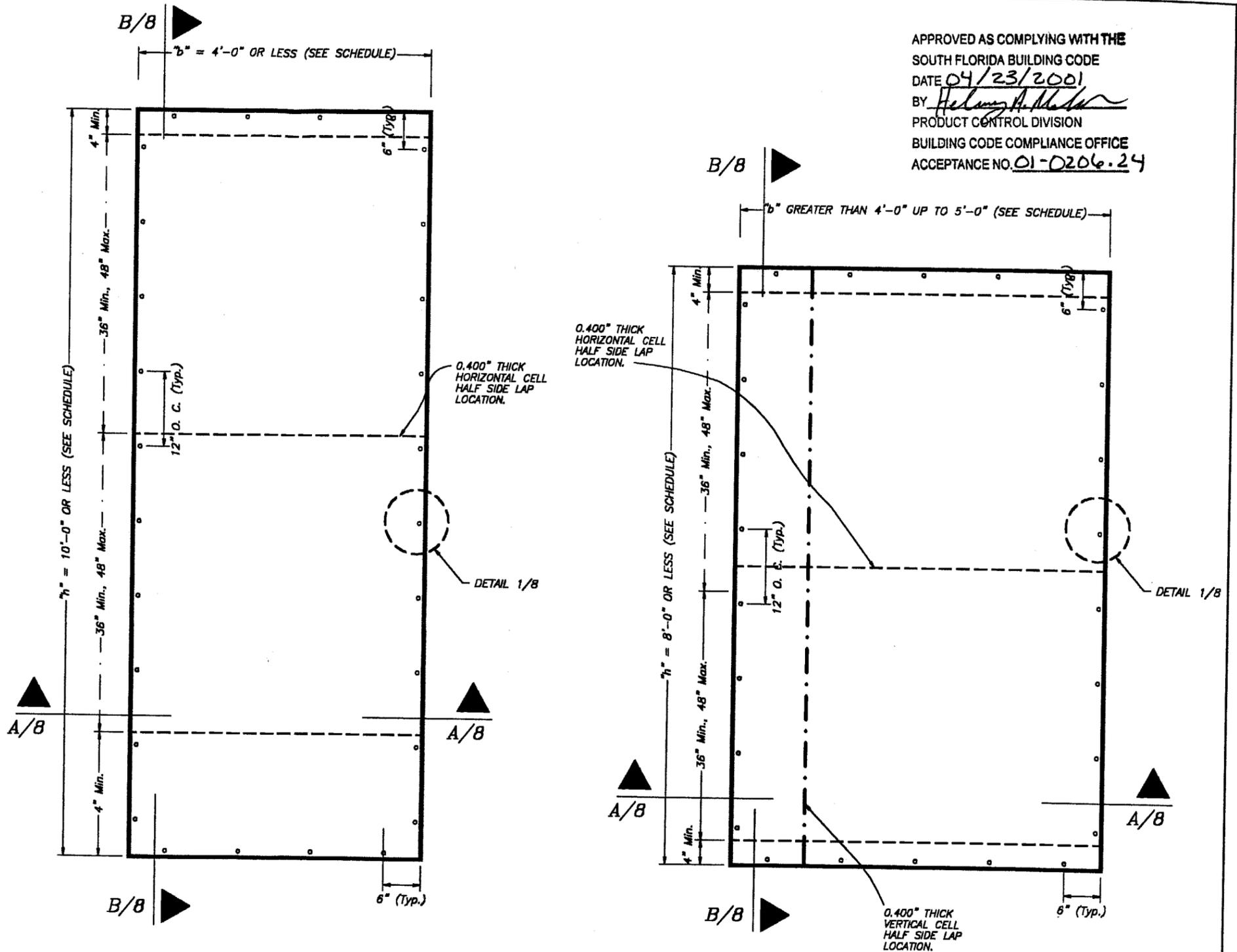
MINIMUM DENSITY (ASTM D782-A2)	: .900 gr/cc
MINIMUM ELONGATION AT YIELD (ASTM D638)	: 9 - 13 %
MINIMUM ROCKWELL R. SCALE (ASTM D785A)	: 75-80
MINIMUM WATER ABSORPTION-24 hrs. @ ASTM-D570	: 0.02
MINIMUM COEFFICIENT OF LINEAR THERMAL EXPANSION (ASTM D696)	
-30° C TO 0° C	: 12
0° C TO 30° C	: 14
30° C TO 60° C	: 21
MINIMUM TENSILE STRENGTH (ASTM D638)	: 3,700-4,000 p.s.i.
MELTING POINT	: 162° C, 324° F
MINIMUM SELF IGNITION TEMPERATURE (ASTM D1929-91A)	: 700° F
FLASH IGNITION TEMPERATURE (ASTM D1929-91A)	: 610° F
FLAME SPREAD INDEX (ASTM E-84-95)	: 185
SMOKE DEVELOPED VALUE (ASTM E-84-95)	: 165
RATING (ASTM D635)	: CLASS C-2
- MACHINE SCREW PLASTIC INSERT SHALL BE MADE OF HIGHLY LUBED AND NUCLEATED WITH CONCENTRATE TYPE 8 NYLON AND SHALL COMPLY WITH THE Min. MECHANICAL PROPERTIES AS FOLLOWS :

ASTM D 789 : MELTING POINT (°C)	: 215-218
ASTM D 792 : SPECIFIC GRAVITY	: 1.14
ASTM D 789 : VISCOSITY (FORMIC RELATIVE)	: 50
ASTM D 638 : TENSILE STRENGTH (p.s.i.)	: 12,500
ASTM D 638 : ULTIMATE ELONGATION (%)	: 30-40
ASTM D 790 : FLEXURAL MODULUS (p.s.i.)	: 425,000
ASTM D 790 : FLEXURAL STRENGTH (p.s.i.)	: 17,000
ASTM D 258 : IZOD IMPACT STRENGTH (FI-Lbs/in)	
(Ft.-Lbs./In.) NOTCHED	: 1.0
ASTM D 570 : 24 Hr. WATER ABSORPTION (%)	: 1.5
ASTM D 696 : COEFFICIENT OF LINEAR EXPANSION	
: (In./In. ° F x 10 ⁻⁵)	: 4.4
- P-20 PANEL SYSTEM : SURFACE BURNING CHARACTERISTICS :

FLAME SPREAD INDEX (ASTM E-84-95)	: 10, CLASS A
SMOKE DEVELOPED VALUE (ASTM E-84-95)	: 155, CLASS A
- P-20 PANEL SYSTEM STRUCTURAL ADEQUACY HAS BEEN VERIFIED THROUGH TESTING BY HURRICANE TESTING LABORATORY, INC. REPORTS # :

1. 0045-0210-97	5' x 8' PANEL	PA-201, PA-202, PA-203
2. 0045-0210-97	4' x 10' PANEL	PA-201, PA-202, PA-203
3. 0045-0210-97	4' x 8' PANEL	PA-201, PA-202, PA-203

W/REMOVABLE STORM BAR



APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE 04/23/2001
 BY Helmut H. ...
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0206.24

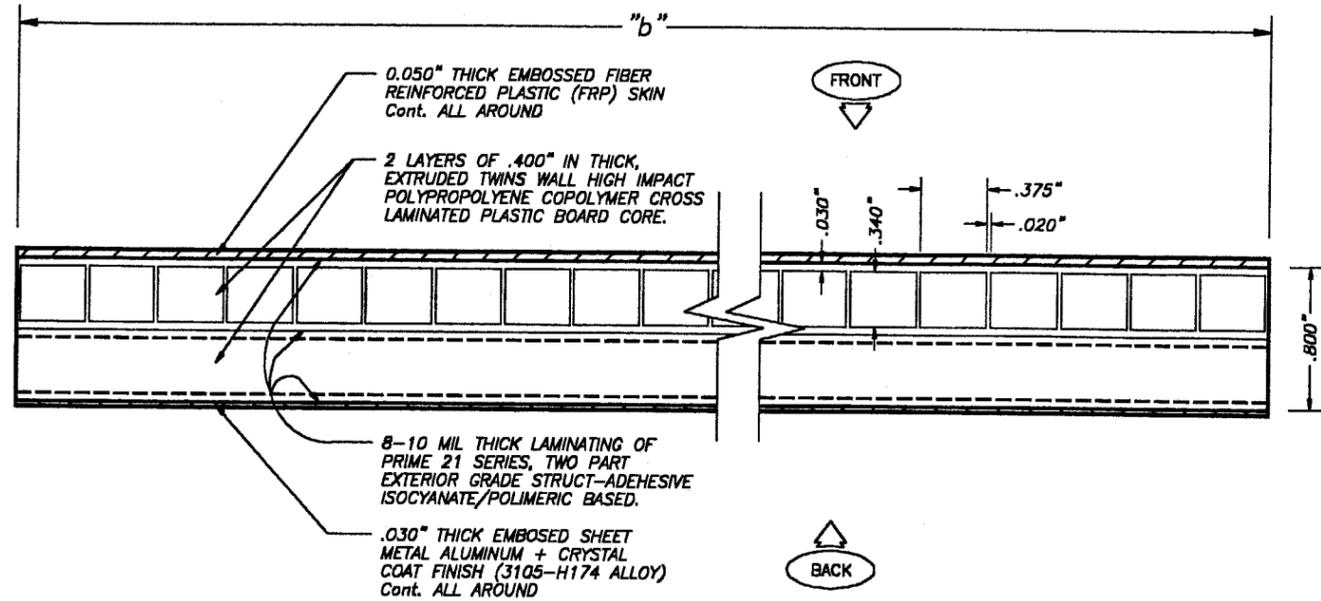
TYPICAL FRONT ELEVATION FOR P-20 PANEL

N. T. S.

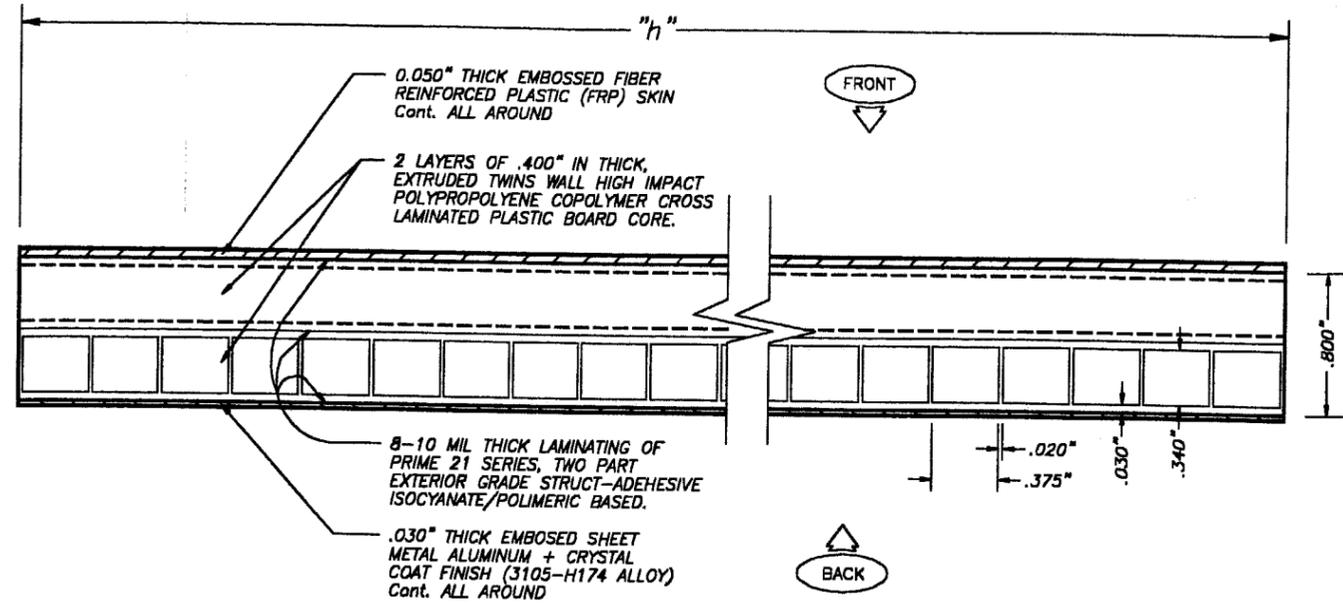
MIAMI-DADE COUNTY

Handwritten signature and date: 4/18/01

 TILTECO Inc. TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1330 . Fax : (305)871-1331 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167	DURAFRAME 2000 / RETROFIT		AS SHOWN SCALE
	DURAFRAME 2000, INC. 8001 Georgia Avenue / Suite 9 WEST PALM BEACH, FLORIDA 33405		4/18/01 DATE
			01-078 DRAWING No
			SHEET 7 OF 9



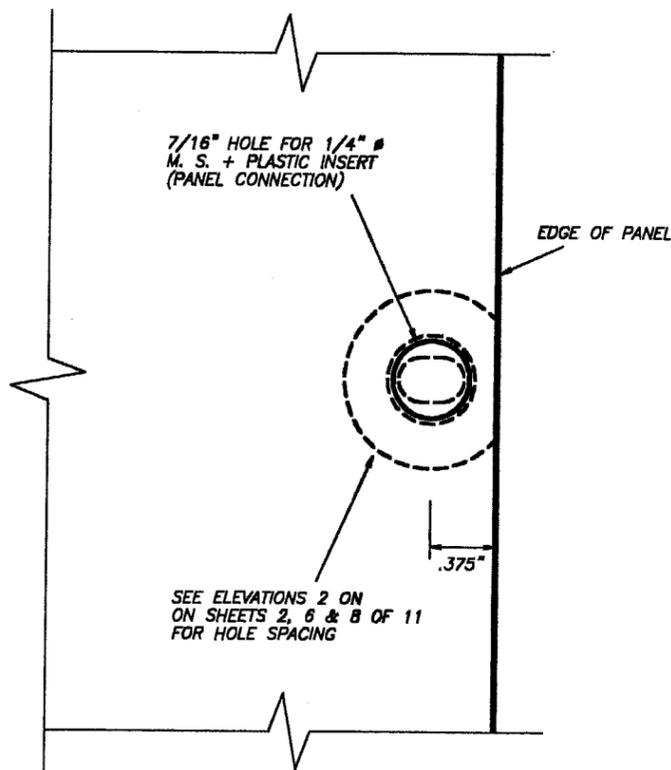
SECTION A - A



SECTION B - B

TYPICAL P-20 PANEL SECTIONS

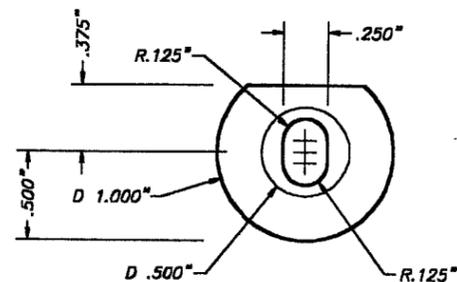
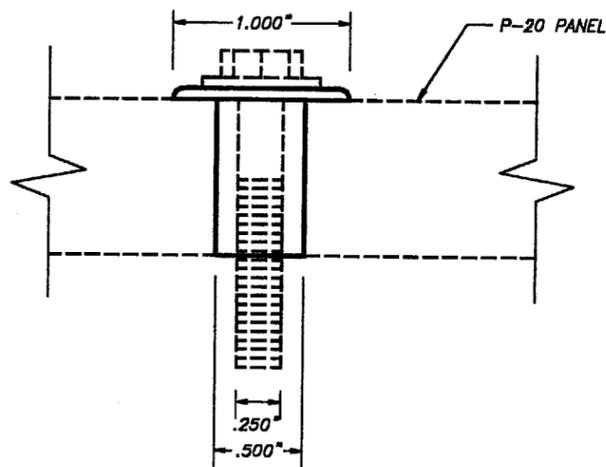
SCALE : FULL



DETAIL 1

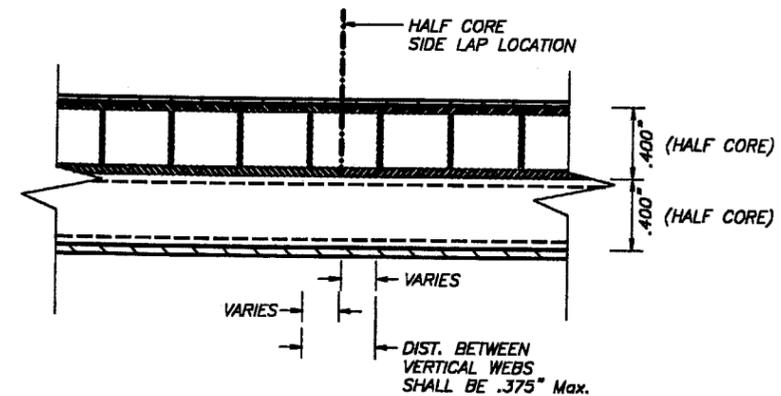
SLOTTED HOLE AT PANEL FOR
S. S. M. S. CONNECTION DETAIL

SCALE : FULL



PLASTIC INSERT FOR M. S. PANEL CONNECTION

SCALE : FULL



SIDE LAP DETAIL AT 0.400" THICK
HALF CORE HORIZONTAL OR VERTICAL CELL

SCALE : FULL

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE 04/23/2001
BY *Heather H. McMan*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0206.24

MIAMI-DADE COUNTY

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		<p>4/18/01 DATE</p>		<p>01-078 DRAWING No</p>	
<p>REV. No</p>	<p>DESCRIPTION</p>	<p>DATE</p>	<p>REV. No</p>	<p>DESCRIPTION</p>	<p>DATE</p>
1	OLD 97-83	4/18/01	3		
2			4		

MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM PANEL DIMENSIONS AND ANCHOR SPACING SCHEDULE FOR CONCRETE & C. B. S. STRUCTURES

MAXIMUM DESIGN LOAD "W" (p.s.f.)	MAXIMUM PANEL WIDTH "b" (Max.)	MAXIMUM PANEL LENGTH "h" (Max.)	MINIMUM SEPARATION TO GLASS		MAXIMUM ANCHOR SPACING * (CONCRETE OR C.B.S.)	PANEL CONFIGURATION
			P-20 PANEL W/ (17), (17R) OR (21) RETROFIT FRAME ALL AROUND W/O REMOVABLE STORM BAR (9) + (11)	P-20 PANEL W/ (17), (17R) OR (21) RETROFIT FRAME ALL AROUND W/ REMOVABLE STORM BAR (9) + (11)		
+70.0, -80.0	5'-0"	8'-0"	3"	N/A	12"	
+70.0, -70.0	4'-0"	10'-0"	2 5/8"	N/A	12"	
+70.0, -80.0	4'-0"	8'-0"	N/A	3" (HORIZONT. OR VERT. (9) + (11))	12"	
+70.0, -80.0	3'-6"	8'-0"	N/A	3" (HORIZONT. OR VERT. (9) + (11))	12"	
+70.0, -70.0	4'-0"	8'-0"	N/A	3" (HORIZONT. OR VERT. (9) + (11))	12"	

* **NOTES :**

- SEE ELEVATIONS 1 ON SHEET 2 & 2A OF 9 FOR ADDITIONAL SPECIFICATIONS FOR THE CONNECTION WITH TAPCON ANCHORS OF RETROFIT FRAMES (17), (17R) OR (21) TO EXISTING WALL.
- SEE ELEVATIONS 1 ON SHEET 5 OF 9 FOR ADDITIONAL SPECIFICATIONS FOR THE CONNECTION WITH WOOD SCREWS OF RETROFIT FRAMES (17), (17R) OR (21) TO EXISTING WALL.

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE 04/23/2001
BY *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0206.24

MIAMI-DADE COUNTY

[Signature]
4/18/01

 TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6595 N.W. 36th St., Ste. 217, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530, Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. # 44167		DURAFRAME 2000 / RETROFIT		AS SHOWN SCALE
		DURAFRAME 2000, INC. 6001 Georgia Avenue / Suite 9 WEST PALM BEACH, FLORIDA 33405		4/18/01 DATE
				01-078 DRAWING No
				SHEET 9 OF 9