



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION**

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

NOTICE OF ACCEPTANCE (NOA)

**TRACO SECURITY WINDOWS & DOORS, INC.
2304 Silverdale Road
Johnson City, TN 37601**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series" 440 (140)" Aluminum Single Hung Window

APPROVAL DOCUMENT: Drawing No. **03-0809-113A**, titled "Series C-140 Aluminum Single-Hung Window (Small Missile SH-440)", sheets 1 through 5 of 5, prepared, signed and sealed by Frank L. Bennardo, P.E., dated 08/04/03, with revisions on 2/25/04, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Small Missile Impact

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

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA 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 NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # **02-0604.03** and, consists of this page 1 and evidence page E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**

MB
3/16/2004



**NOA No 03-0812.03
Expiration Date: June 10, 2007
Approval Date: April 08, 2004
Page 1**

TRACO SECURITY WINDOWS & DOORS, INC.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **03-0809-113A**, titled "Series 440 (140) Aluminum Single Hung Window" Sheets 1 through 5 of 5, prepared, signed and sealed by Frank L. Bennardo, P.E. dated 08/4/03 and last revised on 2/25/04.

B. TESTS

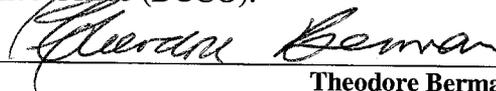
1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2010**, dated 5/4/98, signed and sealed by Gilbert Diamond, P.E.
2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum single hung window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2006**, dated 5/4/98, signed and sealed by Gilbert Diamond, P.E.
3. Test report on: 1) Small Missile Impact Test per SFBC, PA 201-94
2) Cyclic Wind Pressure Loading per SFBC, PA 203-94
along with marked-up drawings and installation diagram of a reinforced aluminum single hung window, prepared by American Testing Lab of South Florida, Test Report No. **ATL-0608.02-00** dated 06/21/00, signed and sealed by William R. Mehner, P.E.
"Submitted under NOA No. 02-0604.03"

C. CALCULATIONS

1. Revised Calculations for NOA 02-0604.03, dated 07/17/03, prepared, signed and sealed by Frank L. Bennardo, P.E.
2. Anchor Calculations, ASTM-E1300, dated 7/17/03, and structural analysis, prepared, signed and sealed by Frank L. Bennardo, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).



Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-0812.03
Expiration Date: June 10, 2007
Approval Date: April 08, 2004

Traco Security Windows & Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

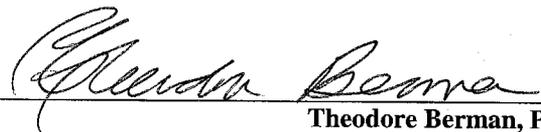
1. Notice of Acceptance No. 03-0417.01 issued to "Cardinal L.G." for "Cardinal Interlayer PVB" dated 05/15/03, expiring on 12/30/07

F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated July 29, 2003, signed and sealed by Frank L. Bennardo, P.E.

G. OTHER

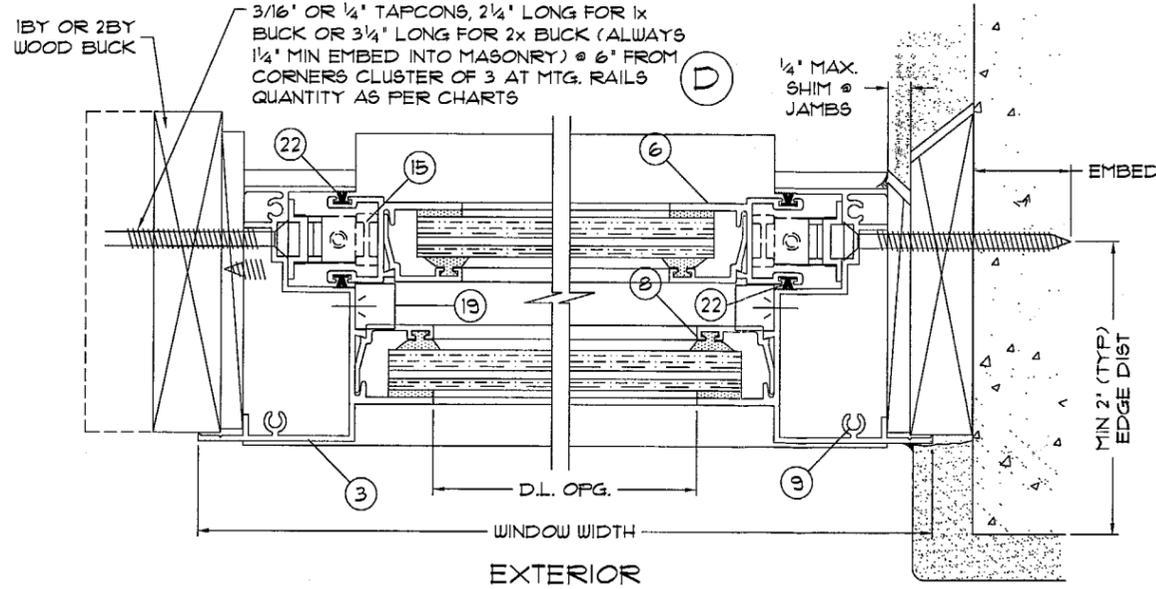
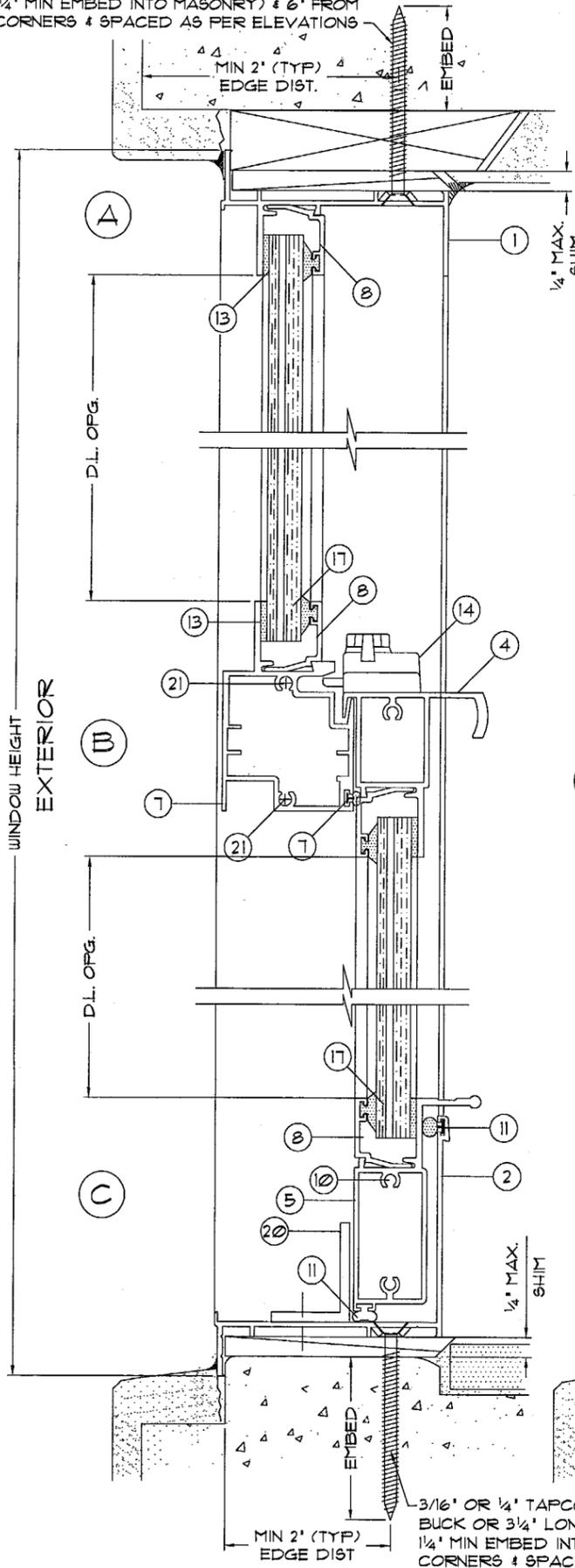
1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).



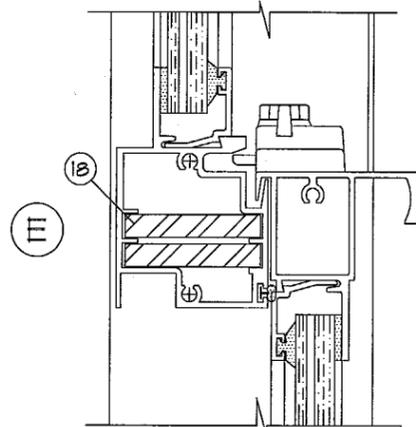
Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-0812.03
Expiration Date: June 10, 2007
Approval Date: April 08, 2004

SMALL MISSILE IMPACT RESISTANT SH-440 SINGLE-HUNG WINDOW

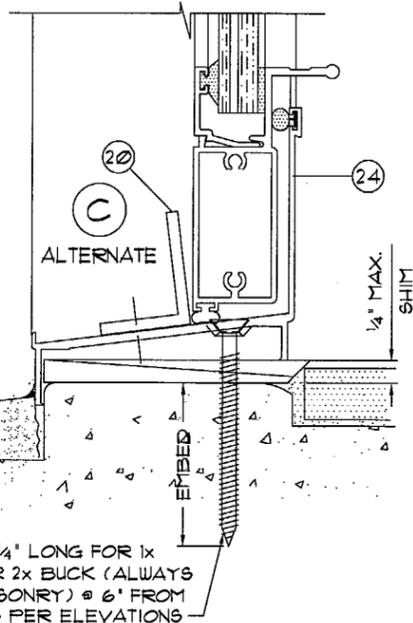
3/16" OR 1/4" TAPCONS, 2 1/4" LONG FOR 1x BUCK OR 3/4" LONG FOR 2x BUCK (ALWAYS 1/4" MIN EMBED INTO MASONRY) @ 6" FROM CORNERS & SPACED AS PER ELEVATIONS



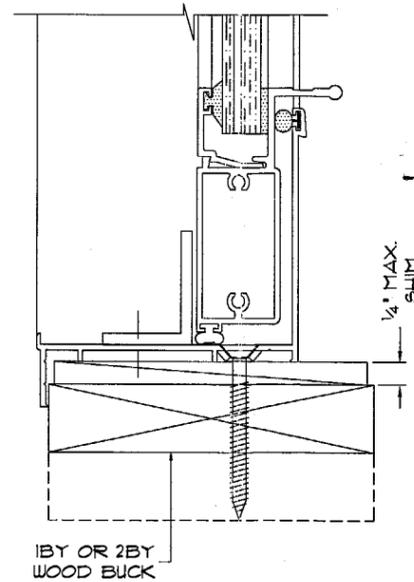
EXTERIOR



SEE CHART ON SHEET 5 FOR REINFORCED MTG. RAIL



ALTERNATE



1BY OR 2BY WOOD BUCK

7/16" LAMINATED GLASS
SMALL MISSILE IMPACT RESISTANT WINDOWS
SHUTTERS NOT REQUIRED FOR INSTALLATIONS
ABOVE 30 FT. OF GRADE.

SEE SHEET 4 FOR GLAZING DETAILS.

GLAZING NOTES:

SEALANTS:
ALL INSTALLATION SCREWS, FRAME &
PANEL CORNER SEAMS SEALED WITH
SCHNEE MOREHEAD 5504.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0813.02
Expiration Date 06/10/07
By *Frank L. Bernardo*
Miami Dade Product Control
Division

TAPCONS AS MANUFACTURED BY
ELCO OR EQUIVALENT CONCRETE
ANCHOR HOLDING CURRENT NOTICE
OF ACCEPTANCE.

GENERAL NOTES:

1. THE SINGLE-HUNG WINDOW SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 2001, HIGH VELOCITY HURRICANE ZONES, AND MIAMI-DADE COUNTY PROTOCOLS TAS 201, 202 & 203.
2. A 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS WINDOW SYSTEM.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS WINDOW SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE. WHEN ASCE 7-98 IS USED TO DETERMINE DESIGN PRESSURES, A DIRECTIONALITY FACTOR $K_d=1$ IS REQUIRED.
4. THE WINDOW SYSTEM DETAILED HEREIN HAS BEEN TESTED PER MIAMI-DADE COUNTY PROTOCOLS TAS-201, TAS-202, & TAS-203 AS REFERENCED IN TEST REPORTS BY FENESTRATION TESTING LABORATORIES (FTL) AND AMERICAN TEST LABORATORY (ATL). MULTIPLE WINDOW UNITS MUST BE INSTALLED USING MIAMI-DADE COUNTY BCCO-APPROVED STRUCTURAL MULLIONS (e.g. NOA #01-1218.01 OR #01-1218.02).
5. THE WINDOW SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
6. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (NOT BY TRACO) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO
8. WINDOW PANELS GLAZED WITH 7/16" LAMINATED GLASS ARE SMALL MISSILE IMPACT RESISTANT AND SHALL BE PROTECTED WITH MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS FOR INSTALLATIONS UP TO 30 FEET ABOVE GRADE. NO PROTECTION REQUIRED FOR INSTALLATIONS ABOVE 30 FEET ABOVE GRADE.
9. ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.

FEB 25 2004

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#E2248548

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TRACO

Windows & Doors Inc.

SERIES C-140 ALUMINUM SINGLE-HUNG WINDOW (SMALL MISSILE SH-440)



REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	10/21/03
SMALL/MON SPLIT	2/25/2004

SCALE: 1/2"
DRAWN BY: CL
CHECKED BY: FLB
ORIG. DATE: 8/4/2003
DWG # 03-0803-113a

SHEET:
1 OF 5

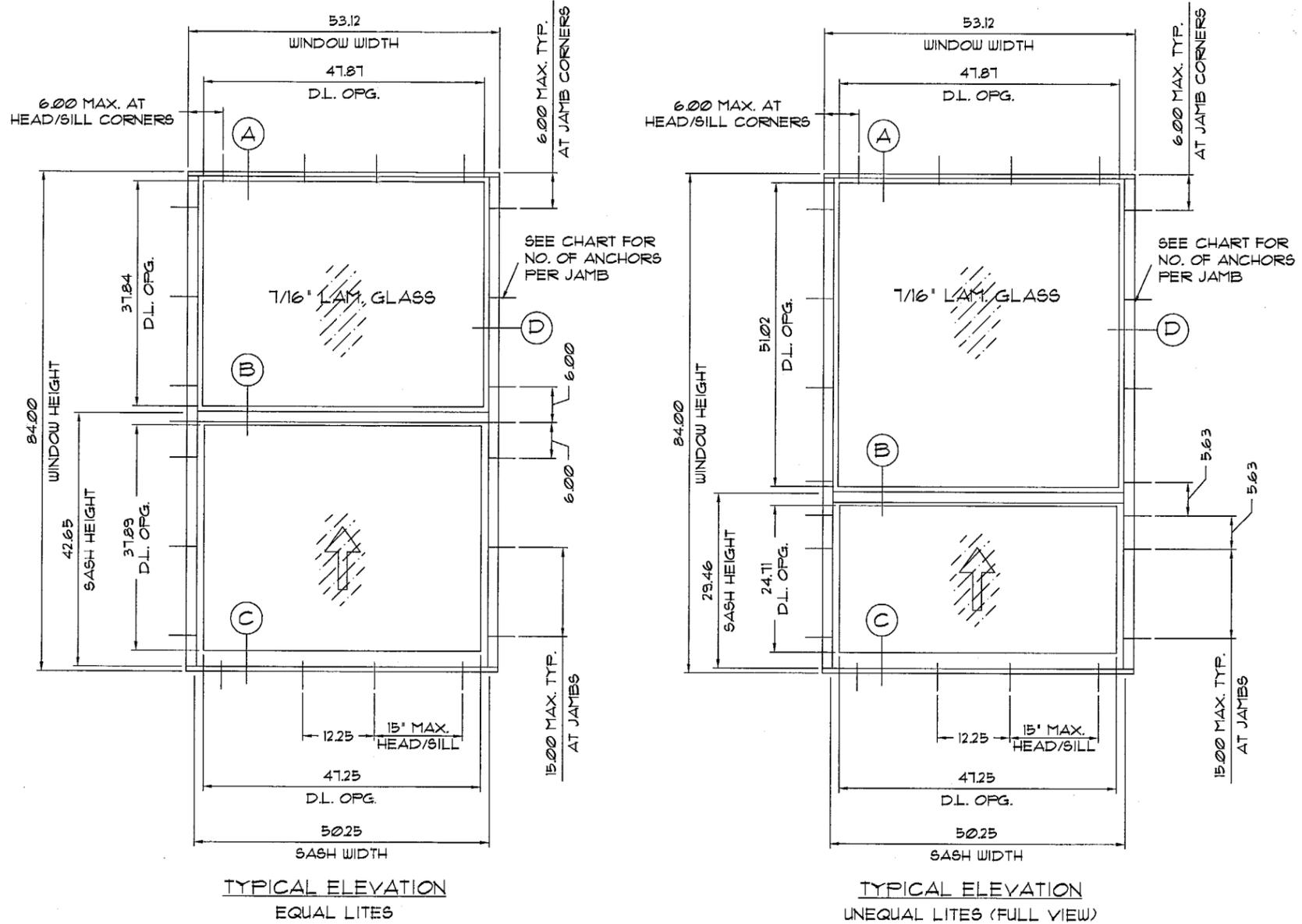
UNREINFORCED MEETING RAIL						
DESIGN LOAD CAPACITY - PSF						
WINDOW DIMENSIONS		NUM OF ANCHORS*	EQUAL LITES & UNEQUAL LITES (FULL VIEW)			
			7/16" LAM GLASS			
WIDTH	HEIGHT		3/16" TAPCONS		1/4" TAPCONS	
			POS	NEG	POS	NEG
19-1/8"	38-3/8"	5 / 5	102.0	137.0	102.0	137.0
26-1/2"		5 / 5	102.0	137.0	102.0	137.0
37"		5 / 5	102.0	137.0	102.0	137.0
53-1/8"		6 / 5	102.0	137.0	102.0	137.0
19-1/8"	50-5/8"	5 / 5	102.0	137.0	102.0	137.0
26-1/2"		5 / 5	102.0	137.0	102.0	137.0
37"		5 / 5	102.0	137.0	102.0	137.0
53-1/8"		6 / 5	102.0	116.3	102.0	137.0
19-1/8"	58"	7 / 7	102.0	137.0	102.0	137.0
26-1/2"		7 / 7	102.0	137.0	102.0	137.0
37"		7 / 7	102.0	137.0	102.0	137.0
53-1/8"		8 / 7	102.0	135.3	102.0	137.0
19-1/8"	63"	7 / 7	102.0	137.0	102.0	137.0
26-1/2"		7 / 7	102.0	137.0	102.0	137.0
37"		7 / 7	102.0	137.0	102.0	137.0
53-1/8"		8 / 7	102.0	124.6	102.0	137.0
19-1/8"	74-1/4"	7 / 7	102.0	137.0	102.0	137.0
26-1/2"		7 / 7	102.0	137.0	102.0	137.0
37"		7 / 7	102.0	132.8	102.0	137.0
53-1/8"		8 / 9	102.0	105.7	102.0	137.0
19-1/8"	84"	7 / 7	102.0	137.0	102.0	137.0
26-1/2"		7 / 7	102.0	137.0	102.0	137.0
37"		7 / 7	102.0	117.4	102.0	137.0
53-1/8"		8 / 7	93.5	93.5	102.0	124.0

* 'NUM OF ANCHORS' INDICATES NUMBER OF ANCHORS PER JAMB, TO BE READ AS FOLLOWS:
 --- (NUM OF 3/16" TAPCONS) / (NUM OF 1/4" TAPCONS) ---

7/16" LAMINATED GLASS
 SMALL MISSILE IMPACT RESISTANT WINDOWS
 SHUTTERS NOT REQUIRED FOR INSTALLATIONS
 ABOVE 30 FT. OF GRADE.

SEE SHEET 4 FOR GLAZING DETAILS.

TAPCONS AS MANUFACTURED BY ELCO.
 OR EQUIVALENT CONC. ANCHOR HOLDING CURRENT
 NOTICE OF ACCEPTANCE.



UN-REINFORCED MEETING RAIL

SEE DETAIL SHEET 1

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 03-0812.03
 Expiration Date 06/10/03

By *Cherise Bema*
 Miami Dade Product Control
 Division

FEB 25 2004

FRANK L. BERNARDO, P.E.
 19.2245519

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TRACO
 Windows & Doors Inc.



SERIES C-140 ALUMINUM SINGLE-HUNG
 WINDOW (SMALL MISSILE SH-440)

REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	10/12/03
SMALL/MON SPLIT	12/12/04

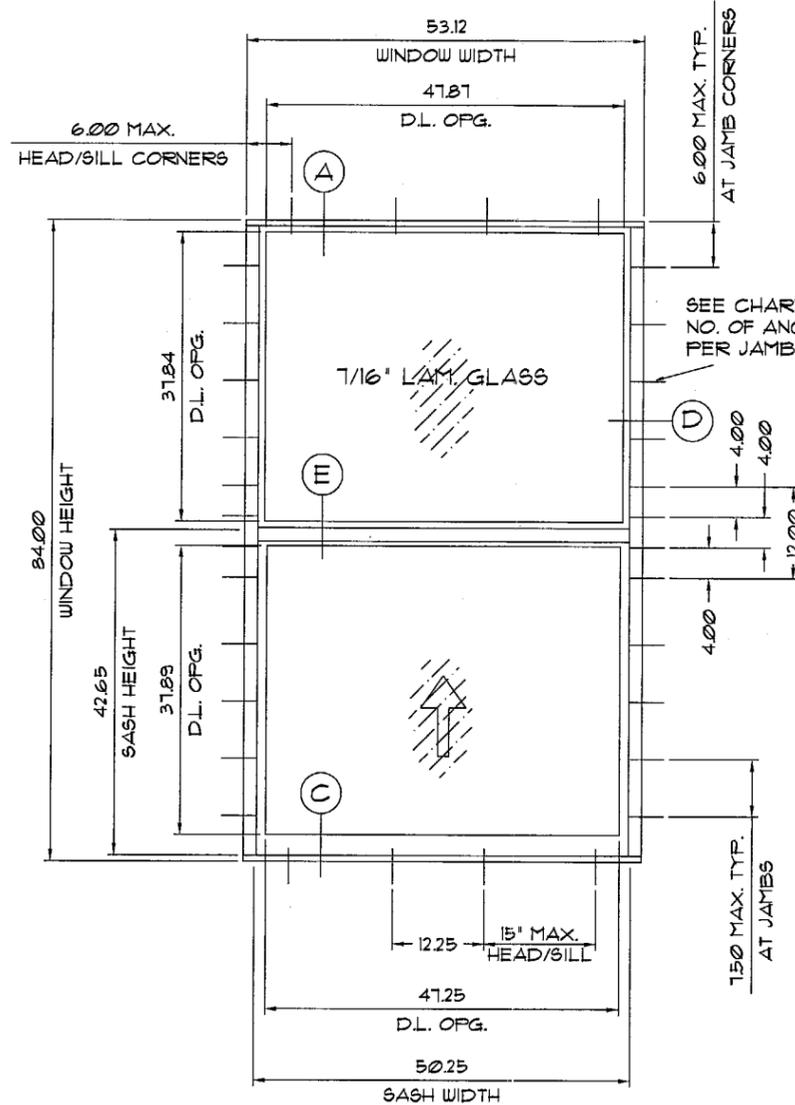
SCALE: NTS
 DRAWN BY: CL
 CHECKED BY: FLB
 ORIG DATE: 8/4/2003
 DWG #: 03-0808-13a

SHEET:
 2 OF 5

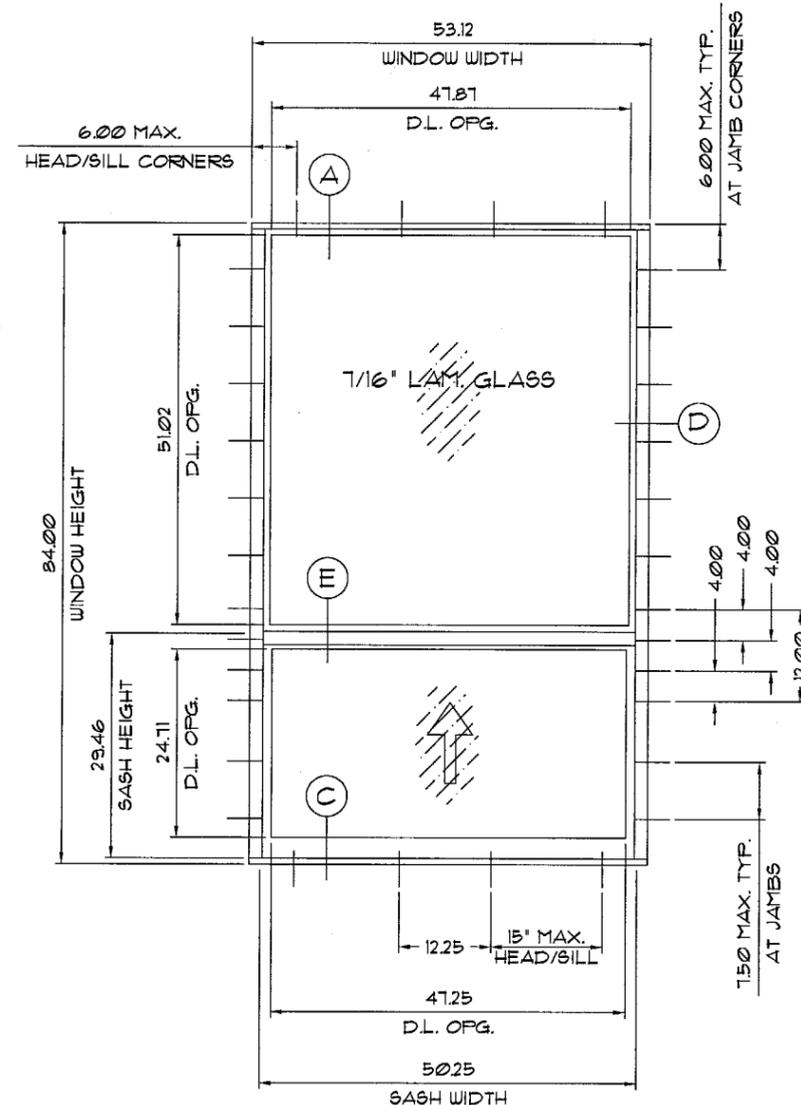
REINFORCED MEETING RAIL				
DESIGN LOAD CAPACITY - PSF				
WINDOW DIMENSIONS			EQUAL LITES	
			1/4" TAPCONS	
WIDTH	HEIGHT	NUM OF* ANCHORS	POS	NEG
19-1/8"	38-3/8"	6	102.0	210.0
26-1/2"		6	102.0	210.0
37"		6	102.0	210.0
53-1/8"		6	102.0	210.0
19-1/8"	50-5/8"	8	102.0	210.0
26-1/2"		8	102.0	210.0
37"		8	102.0	210.0
53-1/8"		8	102.0	210.0
19-1/8"	58"	10	102.0	210.0
26-1/2"		10	102.0	210.0
37"		10	102.0	210.0
53-1/8"		10	102.0	210.0
19-1/8"	63"	10	102.0	210.0
26-1/2"		10	102.0	210.0
37"		10	102.0	210.0
53-1/8"		10	102.0	210.0
19-1/8"	74-1/4"	12	102.0	210.0
26-1/2"		12	102.0	210.0
37"		12	102.0	210.0
53-1/8"		12	102.0	203.0
19-1/8"	84"	12	102.0	210.0
26-1/2"		12	102.0	210.0
37"		12	102.0	210.0
53-1/8"		12	102.0	173.0

REINFORCED MEETING RAIL				
DESIGN LOAD CAPACITY - PSF				
WINDOW DIMENSIONS			UNEQUAL LITES (FULL VIEW)	
			1/4" TAPCONS	
WIDTH	HEIGHT	NUM OF* ANCHORS	POS	NEG
19-1/8"	63"	10	102.0	210.0
26-1/2"		10	102.0	210.0
37"		10	102.0	210.0
53-1/8"		10	102.0	210.0
19-1/8"	74-1/4"	12	102.0	210.0
26-1/2"		12	102.0	210.0
37"		12	102.0	210.0
53-1/8"		12	102.0	203.0
19-1/8"	84"	12	102.0	210.0
26-1/2"		12	102.0	210.0
37"		12	102.0	210.0
53-1/8"		12	102.0	124.0

* NUM OF ANCHORS* INDICATES NUMBER OF ANCHORS PER JAMB



TYPICAL ELEVATION
EQUAL LITES



TYPICAL ELEVATION
UNEQUAL LITES (FULL VIEW)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0812.03
Expiration Date 06/10/07
By: *[Signature]*
Miami Dade Product Control
Division

7/16" LAMINATED GLASS
SMALL MISSILE IMPACT RESISTANT WINDOWS
SHUTTERS NOT REQUIRED FOR INSTALLATIONS
ABOVE 30 FT. OF GRADE.

SEE SHEET 4 FOR GLAZING DETAILS.

REINFORCED MEETING RAIL

SEE DETAIL SHEET 1

TAPCONS AS MANUFACTURED BY ELCO.
OR EQUIVALENT CONC. ANCHOR HOLDING
CURRENT NOTICE OF ACCEPTANCE.

FEB 25 2004

FRANK L. BERNARDO, P.E.
FE 0246343

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TRACO
Windows & Doors Inc.

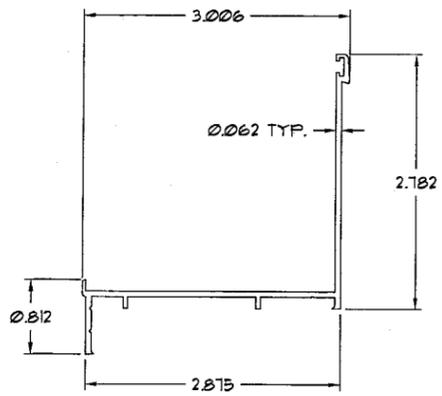


SERIES C-140 ALUMINUM SINGLE-HUNG
WINDOW (SMALL MISSILE SH-440)

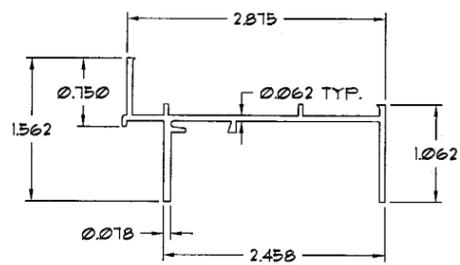
REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	10/2/2003
SMALLNON SPLIT	1/28/2004

SCALE: NTS
DESIGNED BY: CL
CHECKED BY: FLB
ORIG. DATE: 8/4/2003
DWG. #: 03-0803-13a

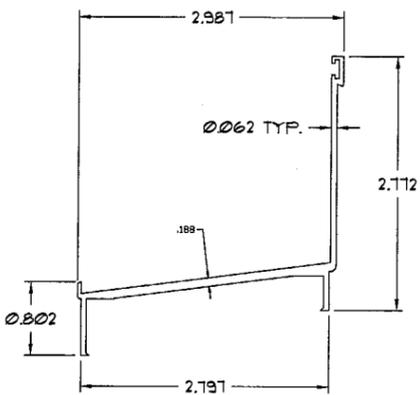
SHEET:
3 OF 5



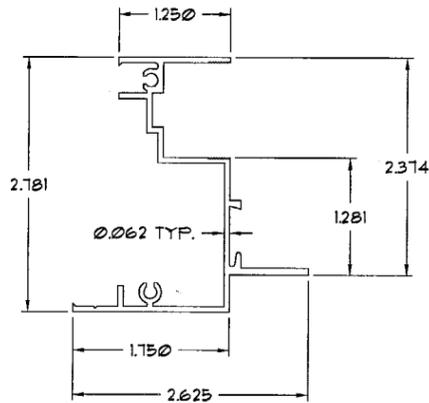
② FRAME SILL



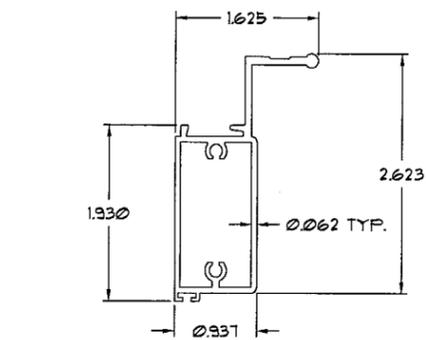
① FRAME HEAD



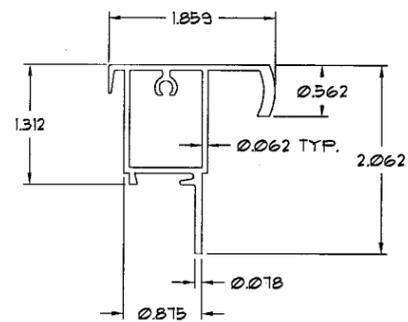
2A ALT. FRAME SILL



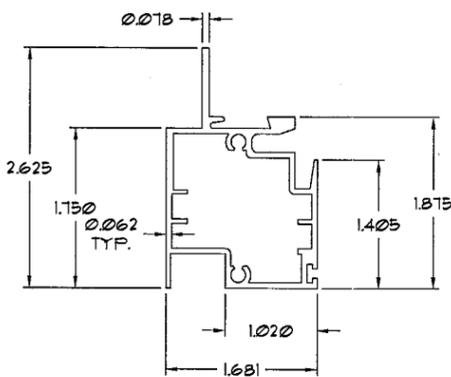
③ FRAME JAMB



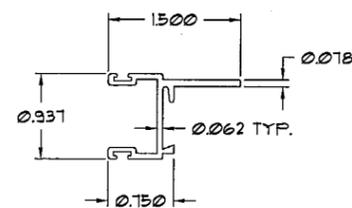
⑤ BOTTOM VENT BOTTOM RAIL



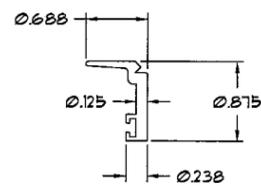
④ BOTTOM VENT TOP RAIL



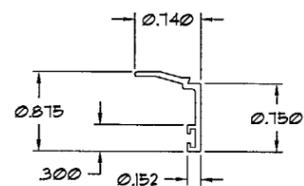
⑦ MEETING RAIL



⑥ SASH SIDE RAIL

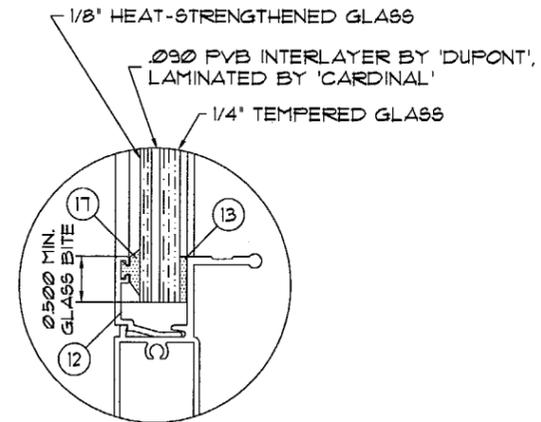


⑧ GLASS STOP-1/4" GLASS



⑫ GLASS STOP-7/16" GLASS

GLAZING DETAIL



SMALL MISSILE IMPACT RESISTANT

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 03-0812.03
 Expiration Date 06/10/03

By *Merida Ben*
 Miami/Dade Product Control
 Division

FEB 25 2004

FRANK L. BERNARDO, P.E.
 FE0046545

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TRACO
 Windows & Doors Inc.



SERIES C-140 ALUMINUM SINGLE-HUNG
 WINDOW (SMALL MISSILE SH-440)

REVISIONS		
DESCRIPTION	DATE	
COUNTY COMMENTS	10/2/03	
SMALLINON SPLIT	1/28/04	

SCALE: 1/2
 DESIGNED BY: CL
 CHECKED BY: FLB
 ORIG. DATE: 8/4/03
 DWG #: 03-0803-113a

SHEET:
 4 OF 5

FEB 25 2004

FRANK L. BERNARDO, P.E.
FE02016545

FRANK L. BERNARDO, P.E.
CONSULTING ENGINEER
4441 NORTH DIXIE HIGHWAY
BOCA RATON, FL 33431
(561) 391-2888 FAX: (561) 391-2862
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71 Progress Avenue,
Cranberry Township, PA 16166
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TRACO
Windows & Doors Inc.



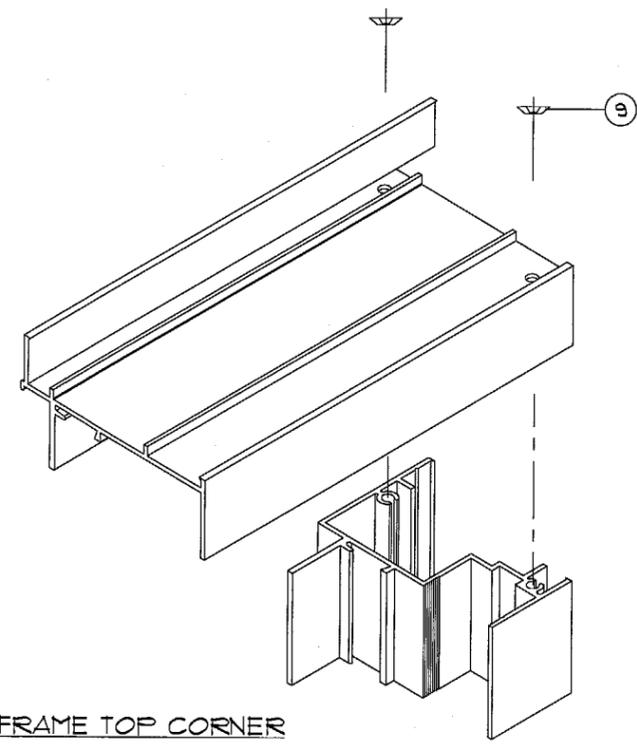
SERIES C-140 ALUMINUM SINGLE-HUNG
WINDOW (SMALL MISSILE SH-440)

REVISIONS	
DESCRIPTION	DATE
COUNTY COMMENTS	10/2/2003
SMALLNON SPLIT	1/28/2004

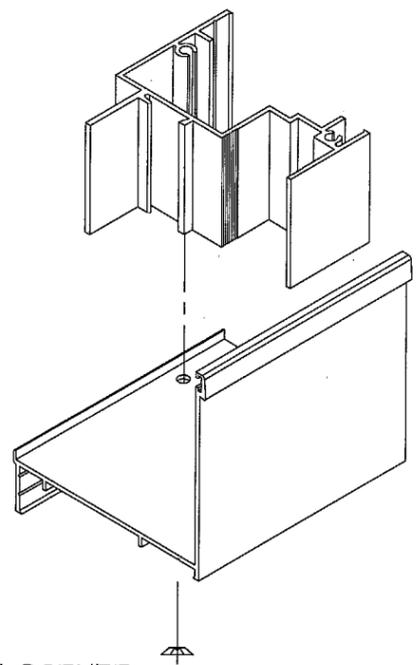
SCALE: N.T.S.
DRAWN BY: CL
CHECKED BY: FLB
ORIG. DATE: 8/4/2003
DWG #: 03-0803-112a

SHEET:
5 OF 5

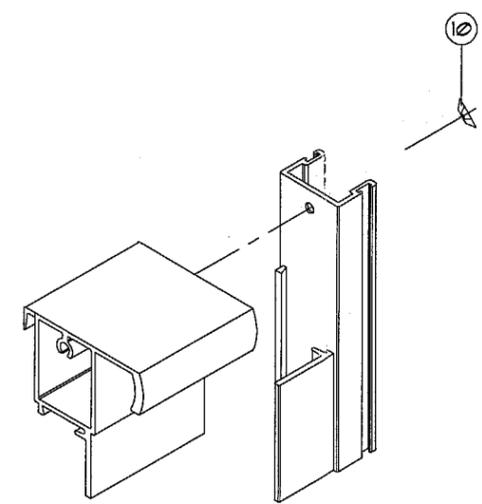
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	050-00-512	1	HEAD	6063-T6	TIFTON
2	050-00-585	1	SILL	6063-T6	TIFTON
2A	050-00-308	1	ALTERNATE SILL	6063-T6	TIFTON
3	050-00-586	2	JAMB	6063-T5	TIFTON
4	050-00-511	1	VENT TOP	6063-T6	TIFTON
5	050-00-548	1	VENT BOTTOM	6063-T5	TIFTON
6	051-00-510	2	VENT SIDE	6063-T6	TIFTON
7	050-00-513	1	MEETING RAIL	6063-T6	TIFTON
8	050-00-569	4/LITE	GLASS STOP (1/4" GLASS)	6063-T6	TIFTON
9	012-00-832	AS REQD.	FRAME ASSEMBLY SCREW		*8 X 3/4" PPH 6MS
10	050-00-000	AS REQD.	VENT ASSEMBLY SCREW		*8 X 1" PPH 6MS
11	046-00-048	AS REQD.	W/STRIPPING (FABRIC COATED FOAM)		SCHLEGEL Q-LON .375 X .190
12	050-00-759	4/LITE	GLASS STOP (7/16" GLASS)	6063-T6	-
13	050-00-000	AS REQD.	GLAZING TAPE (0.90 THICK)		TREMCO #440
14	007-10-016	2	SWEEP LOCK (AT 6-3/4" FROM ENDS)	ZINC CAST	MARBOLLO INT.
15	046-16-030	2	BLOCK AND TACKLE BALANCE		WINDOW COMPONENTS (5/8" BOX)
16	-	-	-		-
17	000-00-000	AS REQD.	GLAZING WEDGE		WIBORG VINYL / WV-8160
18	-	2	REINFORCING BARS FULL LENGTH	STEEL	1-1/2" X 1/4"
19	000-00-000	2	VENT GUIDE	NYLON	1/2" X 7/8" X 3/8" HI. - W/ *6 X 1/2"
20	000-00-000	1	ALUM ANGLE (1x1/4x1/8"x3' LG) AT MIDSPAN	6063-T5	FASTENED WITH (2) #10 X 2 6MS
21		AS REQD.	MTG. RAIL ASSEMBLY SCREW		*10 X 1" PPH 6MS
22	047-00-015	AS REQD.	FIN SEAL FILE		ULTRAFAB



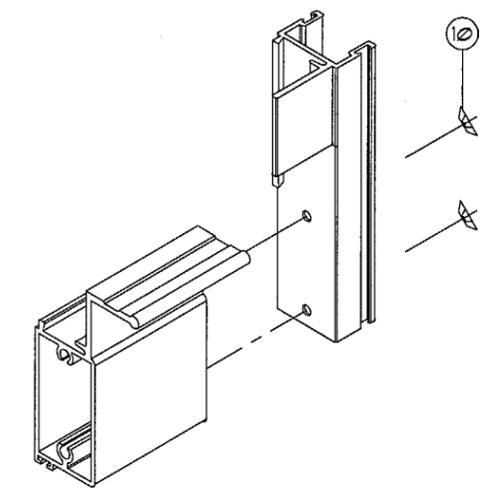
FRAME TOP CORNER



FRAME BOTTOM CORNER



VENT TOP CORNER



VENT BOTTOM CORNER

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 03-0812.03
Expiration Date 06/10/07
By: *Frank L. Bernardo*
Miami Dade Product Control
Division