



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)**

[www.buildingcodeonline.com](http://www.buildingcodeonline.com)

**Trainer Glass Company**  
1101 13<sup>th</sup> Street West  
Riviera Beach, FL 33404

**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 TCW250 TS Aluminum Curtain Wall System - S.M.I.**

**APPROVAL DOCUMENT:** -Drawing No. TCW250TSSMI, titled "TCW 250TS Series Small Missile Impact w/ Reinforced Mullions", sheets 1 through 14 of 14, dated 05/23/05 with revision "1" on 07/25/05, prepared by manufacture, signed and sealed by William D. Cook, 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.

**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 consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**



NOA No 05-0824.06  
Expiration Date: October 20, 2010  
Approval Date: October 20, 2005  
Page 1

**Trainor Glass Company**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **TCW250TSSMI**, titled "TCW 250TS Series Large Missile Impact w/ Reinforced Mullions" Sheets 1 through 14 of 14, dated 05/23/05 with revision "1" on 07/25/05, prepared by manufacture, signed and sealed by William D. Cook, P.E.

**B. TESTS**

1. Test report 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 installation diagram of an aluminum curtain wall system, marked-up by Hurricane Test Laboratory, LLC Test Report No. **HTL-0062-1113-03**, dated 11/19-12/15/03, signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis, dated 05/23/05, prepared by Bromley Cook Engineering, signed and sealed by William D. Cook, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **01-1204.01** issued to **E.I. DuPont DeNemours** for "Sentry Glass @ Plus" dated 01/17/02, expiring on 01/14/07.
2. Notice of Acceptance No. **04-0115.01** issued to **Viracon, Inc.** for "HRG-2 Laminated Glass" dated 02/12/04, expiring on 02/12/09.

**F. STATEMENTS**

1. Statement letter of conformance, dated June 14, 2005, signed and sealed by William D. Cook, P.E.
2. Statement letter of no financial interest, dated June 14, 2005, signed and sealed by dated William D. Cook, P.E.

**G. OTHER**

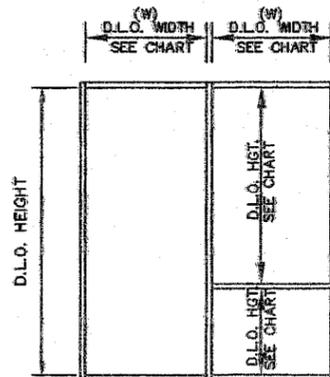
1. Letter from the consultant, dated August 13, 2005, stating that the product is in compliance with the Florida Building Code (FBC).



Herminio F. Gonzalez, P.E.  
Director, Building Code Compliance Office  
NOA No 05-0824.06

Expiration Date: October 20, 2010  
Approval Date: October 20, 2005





GLASS LOAD CAPACITY (S.M.I.) - P.S.F.						
NOMINAL DIM'S.		LAMINATED GLASS GLASS TYPE: G-7		LAMINATED/INSULATED GLASS GLASS TYPE: G8		
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	
42"	81"	80	90	80	95	
45"						
48"						
51"						
54"						
57"						
60"						
63"						
66"						
39"		84"				
42"						
45"						
48"						
51"						
54"						
57"						
60"						
64"						
39"	87"					
42"						
45"						
48"						
51"						
54"						
57"						
60"						
62"						
36"		90"				
39"						
42"						
45"						
48"						
51"						
54"						
57"						
60"						
36"	93"					
39"						
42"						
45"						
48"						
51"						
54"						
58"						
			80	90	80	95

GLASS LOAD CAPACITY (S.M.I.) - P.S.F.						
NOMINAL DIM'S.		LAMINATED GLASS GLASS TYPE: G7		LAMINATED/INSULATED GLASS GLASS TYPE: G8		
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	
39"	95"	80	90	80	95	
42"						
45"						
48"						
51"						
54"						
56"						
36"		99"				
39"						
42"						
45"						
48"						
51"						
54"						
36"	102"					
39"						
42"						
45"						
48"						
51"						
53"						
36"		105"				
39"						
42"						
45"						
48"						
51"						
36"	108"					
39"						
42"						
45"						
48"						
50"						
36"		111"				
39"						
42"						
45"						
48"						
36"	114"					
39"						
42"						
45"						
47"						
			80	90	80	95

Approved as complying with the  
Florida Building Code  
Date 10/20/05  
NOAH 05-0824-06  
Miami-Dade Product Control  
Division  
By [Signature]

**BROMLEY COOK ENGINEERING, INC.**  
STRUCTURAL ENGINEERING SERVICES  
5440 N.W. 33RD AVENUE SUITE 100  
FORT LAUDERDALE, FLORIDA 33309  
TEL: (954) 772-4624 FAX: (954) 772-4634

SEP 23 2005

WILLIAM D. COOK P.E.  
FLA P.E. # 43904  
FLA S.I. # 2008

**TRAINOR**  
GLASS COMPANY  
1101 13th STREET WEST, RIVERA BEACH, FL 33404  
PH. (561) 863-7078 FAX (561) 863-7088  
www.trainorglass.com

NO.	DATE	BY	REVISIONS AS PER B.C.C.O. COMMENTS
1	7/25/05	M.G.	
2			
3			
4			

PROJECT NAME: **TCW 250TS SERIES**

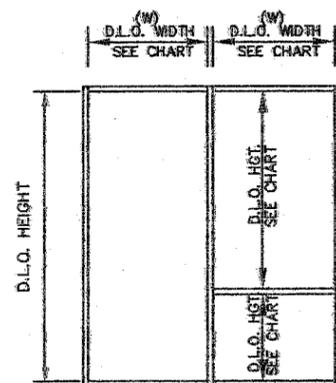
DRAWING NUMBER: **TCW250TSSM1**

SHEET NO.: **2** of **14**

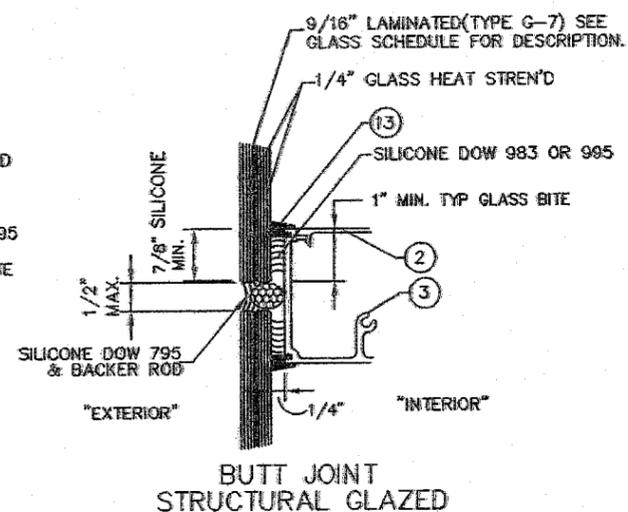
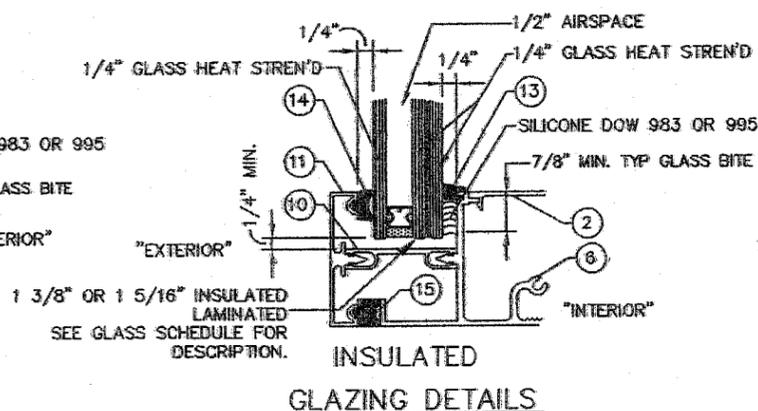
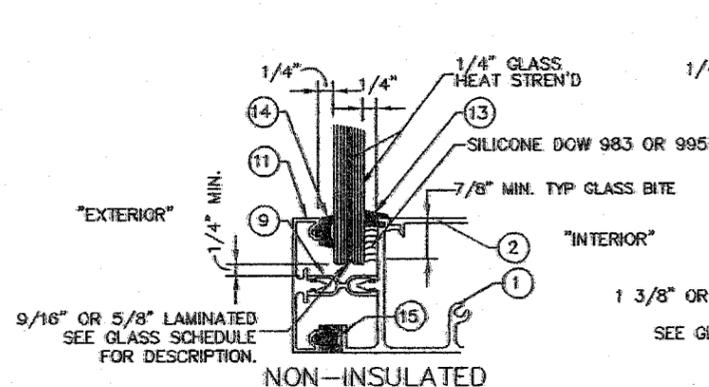
DRAWN BY: **TOM C.**

CHECKED BY:

ATLANTA, GA CHICAGO, IL DENVER, CO ORLANDO, FL NEWARK, NJ



GLASS SCHEDULE (S.M.I.)				
TYPE	NOMINAL THICKNESS	DESCRIPTION		MISSILE TYPE
G-7	9/16"	LAMINATED GLASS	1/4" HS OUTBOARD-0.060" DUPONT BUTACITE INTERLAYER- 1/4" HS INBOARD	SMALL
G-8	1 5/16"	INSULATED LAMINATED GLASS	1/4" HS OUTBOARD- 1/2" AIRSPACE 1/4" HS- 0.060" DUPONT BUTACITE INTERLAYER- 1/4" HS INBOARD	SMALL



Approved as complying with the Florida Building Code  
 Date 10/20/05  
 NOAH 05-0924.06  
 Miami Dade Product Control  
 Division  
 By M. Hall

**BROMLEY COOK ENGINEERING, INC.**  
 STRUCTURAL ENGINEERING SERVICES  
 5440 N.W. 33RD AVENUE SUITE 100  
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WILLIAM D. COOK P.E.  
 FLA P.E. # 43904  
 FLA S.I. # 2008

SEP 23 2005

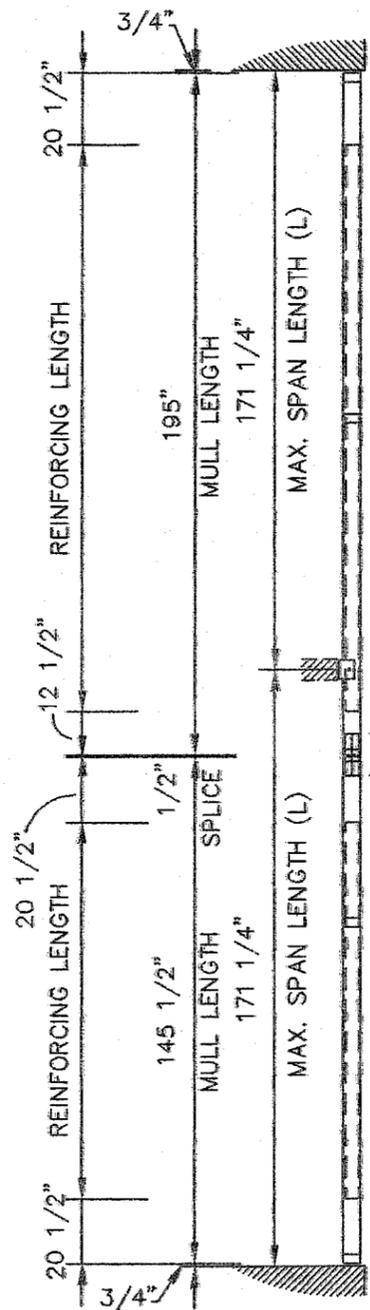
**TRAINOR GLASS COMPANY**

NO.	DATE	BY	REVISIONS
1	7/25/05	M.G.	REVISIONS AS PER B.C.C. COMMENTS

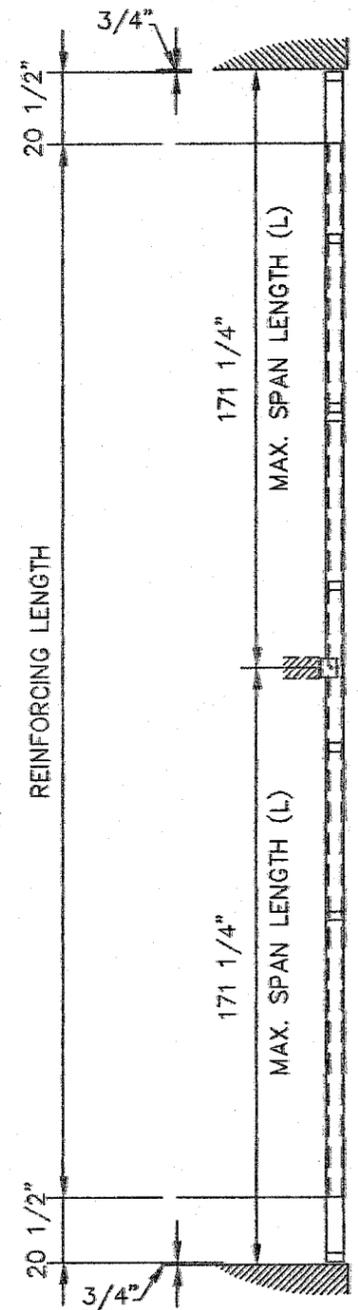
PROJECT NAME: **TCW 250TS SERIES**

SMALL MISSILE IMPACT W/REINFORCED MULLIONS

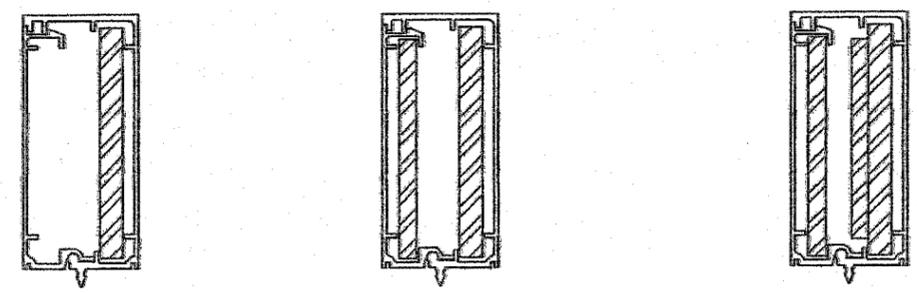
DATE: 5/23/05  
 SCALE: NOTED  
 DRAWING NUMBER: TCW250TSSM1  
 SHEET: 3 of 14  
 DRAWN: TOM C.  
 CHECKED BY:



SECTION "A-A"  
STACKED MULLION  
W/ SPLICE



SECTION "B-B"  
TWIN SPAN MULLION  
NO SPLICE



MULLION 1  
REINFORCING: 1/2" X 5" STEEL BAR

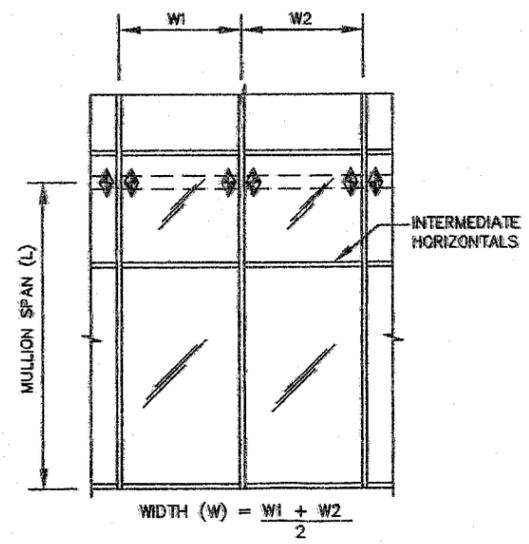
MULLION 2  
REINFORCING: 1/2" X 5" & 3/8" X 4 3/4" STEEL BAR

MULLION 3  
REINFORCING: 1/2" X 5" W/ 1/4" X 3 1/2" WELDED & 3/8" X 4 3/4" STEEL BAR

JAMB & MULLION LOAD CAPACITY - P.S.F.  
(REINFORCED MULLIONS)

NOMINAL DIM'S.	MULLION SPAN (L)	1 TWIN SPAN JAMB		1 STACKED JAMB		2 TWIN SPAN MULLION		2 STACKED MULLION		3 TWIN SPAN MULLION		3 STACKED MULLION		
		EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	EXT. (+)	EXT. (-)	
48"	171 1/4" MAX.	80	95	80	95	80	91.5	80	95	80	95	80	95	
54"						80	81.5	80	95	80	87.5			
60"						73.5	73.5	80	95	79	79			
62"						70.5	70.5	80	92	76	76			
68"			80	93			64.5	64.5	80	84	69.5	69.5		
74"			80	85			59	59	77	77	64	64		
80"			79.5	79.5	80	95	55	55	71.5	71.5	67.7	67.7	80	95

L = SPAN BETWEEN SUPPORTS/ANCHOR POINTS  
 CHART DATA IS BASED ON MAXIMUM TESTED LENGTH.  
 FOR SHORTER SPANS, ENGINEERED CALCULATIONS SHALL BE PROVIDED ON A JOB SPECIFIC BASIS.  
 SEE PAGE 13 FOR ANCHOR TYPES & OPTIONS.



Approved as complying with the Florida Building Code  
 Date 10/20/05  
 NOA# 05-0824.06  
 Miami Dade Product Control  
 Division  
 By: *[Signature]*

BROMLEY COOK ENGINEERING, INC.  
 STRUCTURAL ENGINEERING SERVICES  
 5440 N.W. 33RD AVENUE SUITE 100  
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SEP 23 2005

WILLIAM D. COOK P.E.  
 FLA P.E. # 43904  
 FLA S.I. # 2008

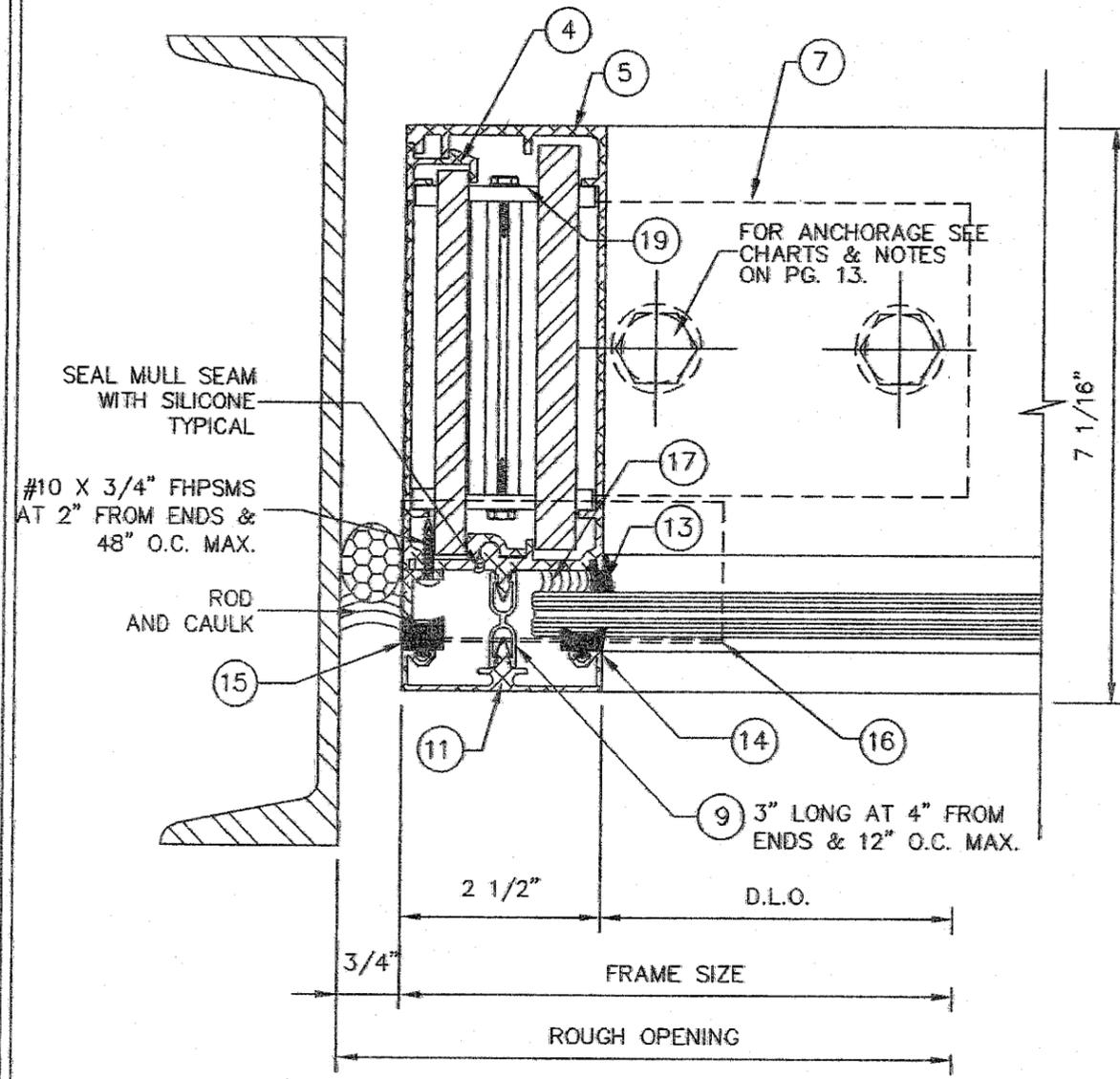
**TRAINOR**

G L A S B E C O M P A N Y  
 1101 13th STREET WEST, RIVIERA BEACH, FL 33404  
 Ph. (561) 863-7078 FAX (561) 863-7088  
 www.trainorglass.com

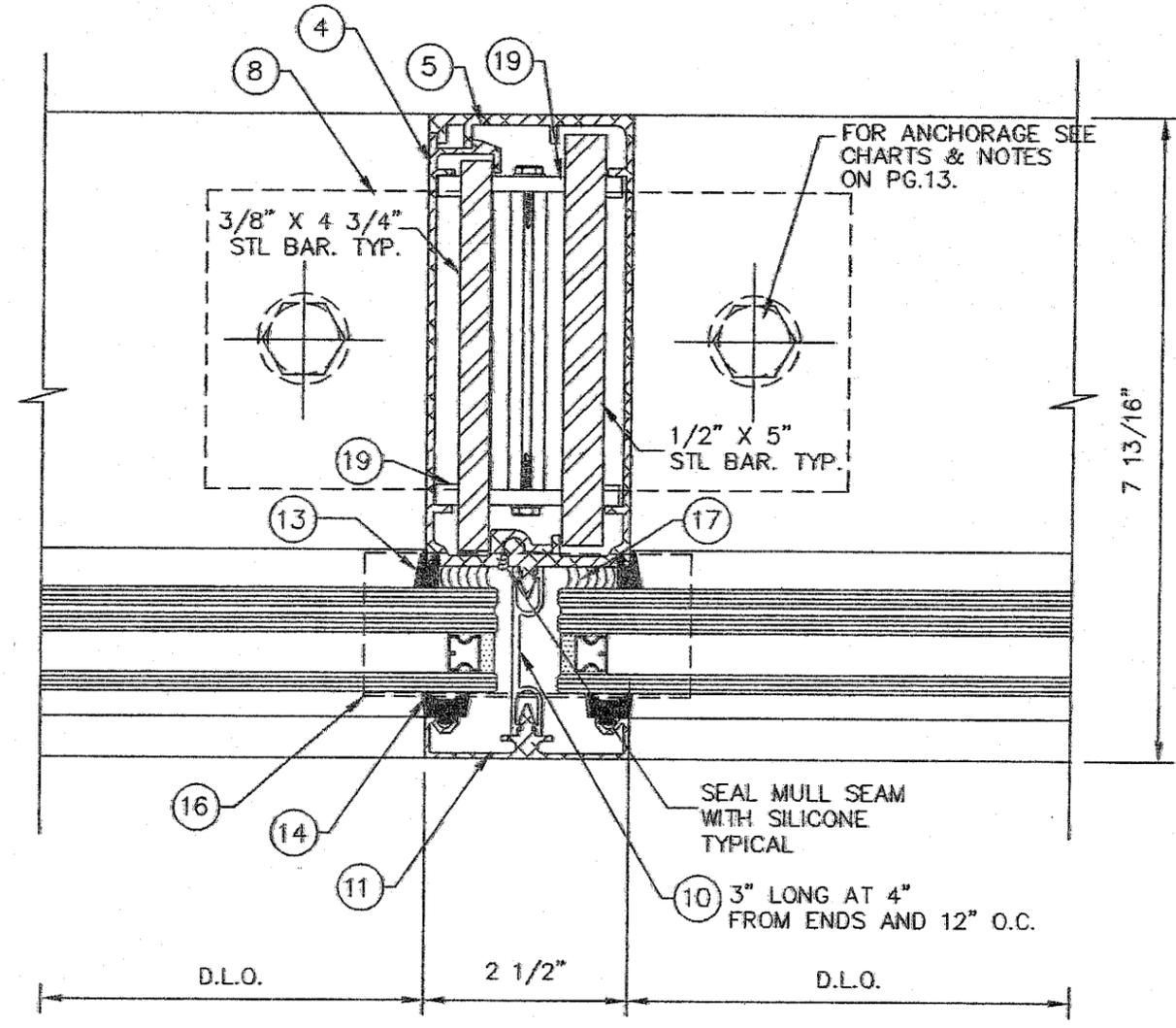
ATLANTA, GA. CHICAGO, IL DENVER, CO. ORLANDO, FL NEWARK, NJ

DATE: 5/23/05	SCALE: NOTED	DRAWING NUMBER: TCW250TSSMI	SHEET NO.: 4	PROJECT NAME: TCW 250TS SERIES
REVISIONS:	BY:	DATE:	REVISIONS AS PER B.C.C.O. COMMENTS:	SMALL MISSILE IMPACT W/REINFORCED MULLIONS

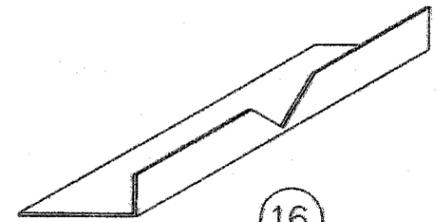
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 DRAWING NUMBER: TCW250TSSMI  
 SHEET NO.: 4 of 14  
 PROJECT NAME: TCW 250TS SERIES  
 SMALL MISSILE IMPACT W/REINFORCED MULLIONS



(A) JAMB



(B) MULLION



(16)  
.040" ALUM. BOTTOM MULL CAP  
4" LONG  
(ATTACHED WITH SILICONE)

SEALANT NOTES:

GLAZING BEAD AT FRAME SEALED TO GLASS WITH DOW CORNING 983 OR 995

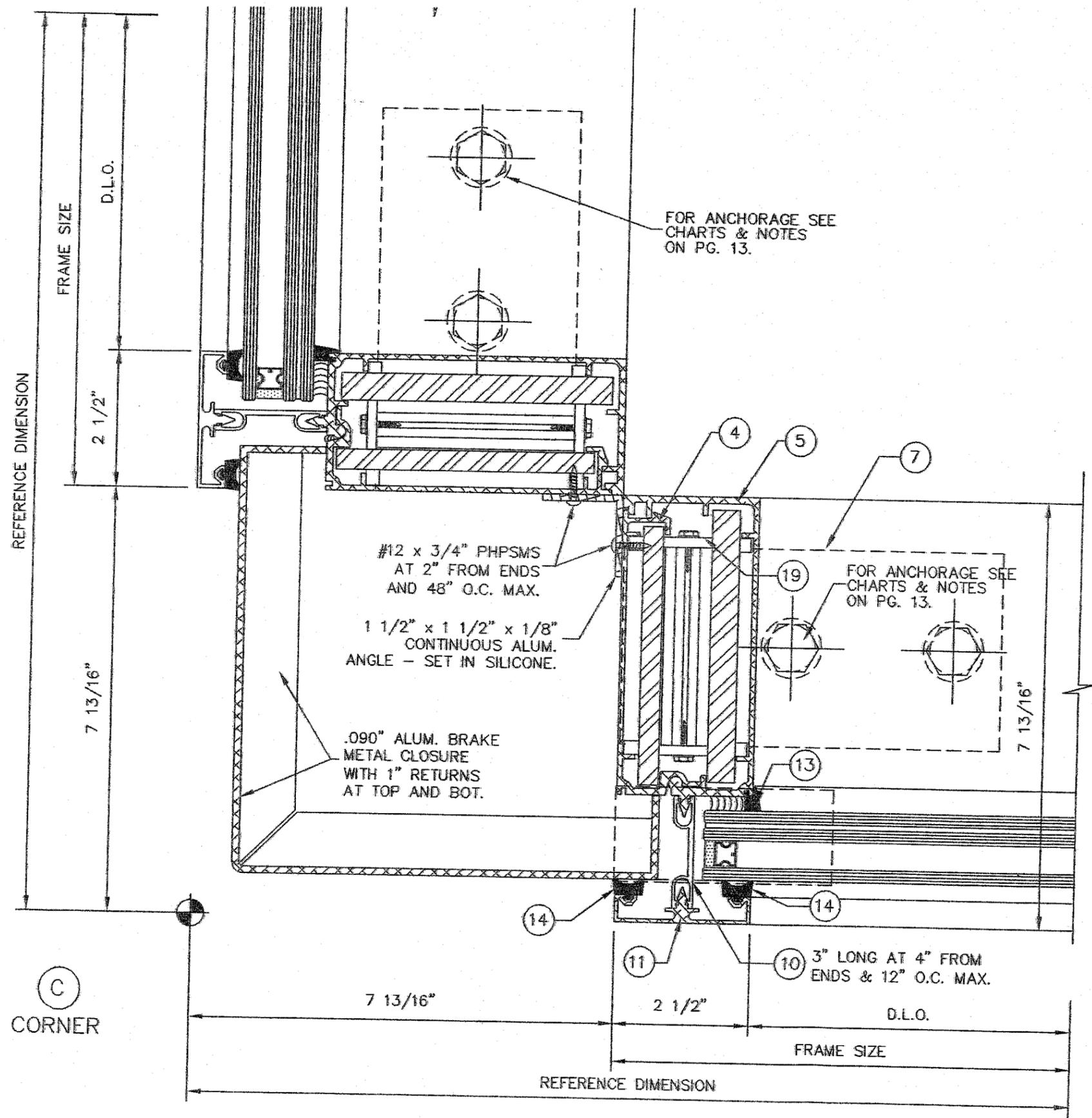
FRAME PERIMETER TO STRUCTURE SEALED WITH DOW CORNING 795

Approved as complying with the Florida Building Code  
Date: 10/20/05  
NOAH 05-0824.06  
Miami Dade Product Control Division  
By: *[Signature]*

BROMLEY COOK ENGINEERING, INC.  
STRUCTURAL ENGINEERING SERVICES  
5440 N.W. 33RD AVENUE SUITE 100  
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SEP 23 2005  
WILLIAM D. COOK P.E.  
FLA P.E. # 43904  
FLA S.I. # 2008

		ATLANTA, GA. CHICAGO, IL DENVER, CO. ORLANDO, FL NEWARK, NJ	
1101 13th STREET WEST, RIVERA BEACH, FL 33404 PH. (561) 863-7078 FAX (561) 863-7088 www.trainorglass.com		PROJECT NAME: TCW-250TS SERIES SMALL MISSILE IMPACT W/ REINFORCED MULLIONS	
DATE: 05/23/05	SCALE: NOTED	DRAWING NUMBER: TCW/250TS/01	SHEET NO.: 5 of 14
DRAWN BY: TOM C. CHECKED BY:		REVISIONS:	



Approved as complying with the Florida Building Code  
 Date 10/20/05  
 NOAH 05-0829-06  
 Miami Dade Product Control Division  
 By *Ma Shank*

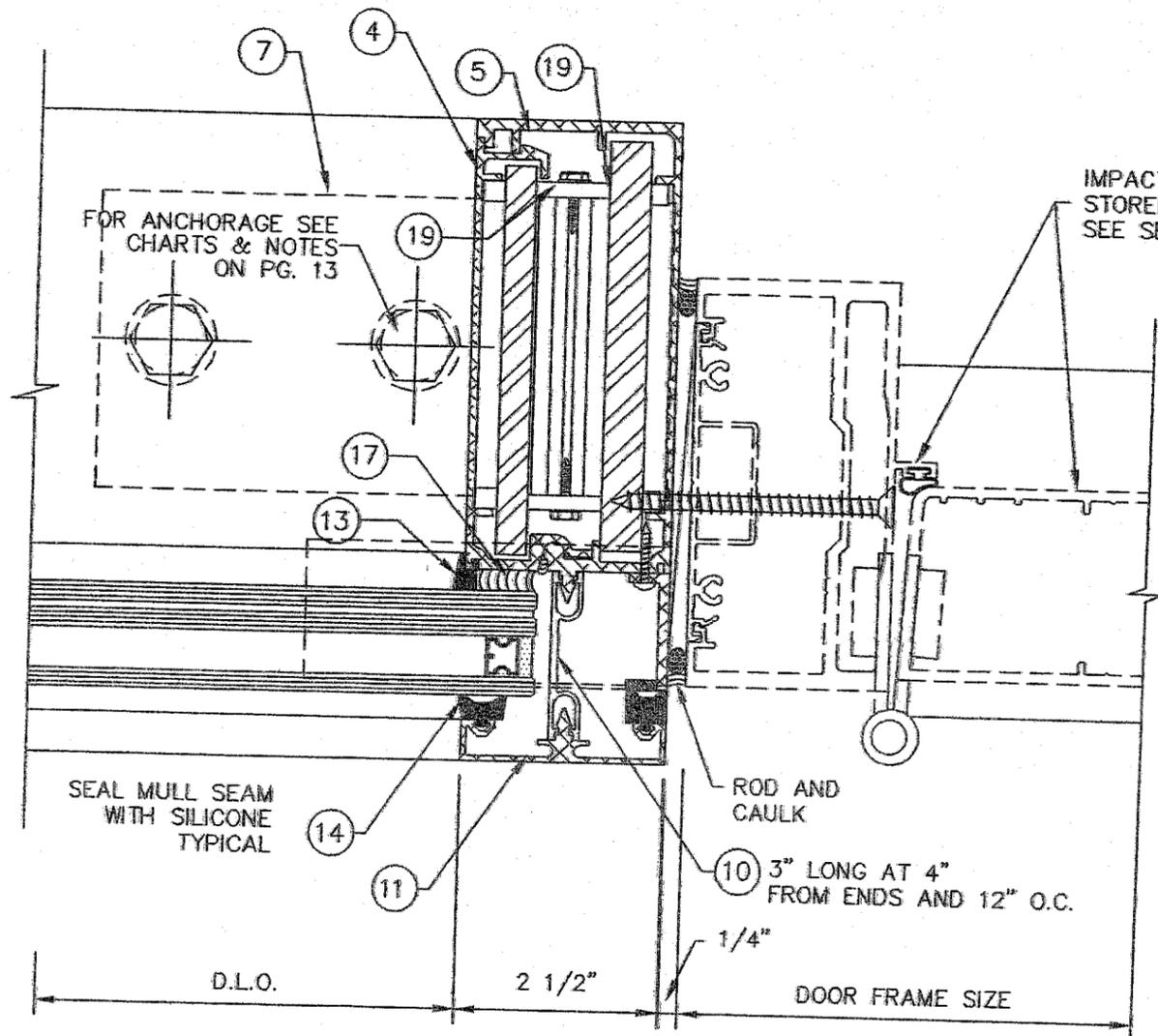
BROMLEY COOK ENGINEERING, INC.  
 STRUCTURAL ENGINEERING SERVICES  
 5440 N.W. 33RD AVENUE SUITE 100  
 FORT LAUDERDALE, FLORIDA 33309  
 TEL: (954) 772-4624 FAX: (954) 772-4634

SEP 23 2005  
 WILLIAM D. COOK P.E.  
 FLA P.E. # 43904  
 FLA S.I. # 2008

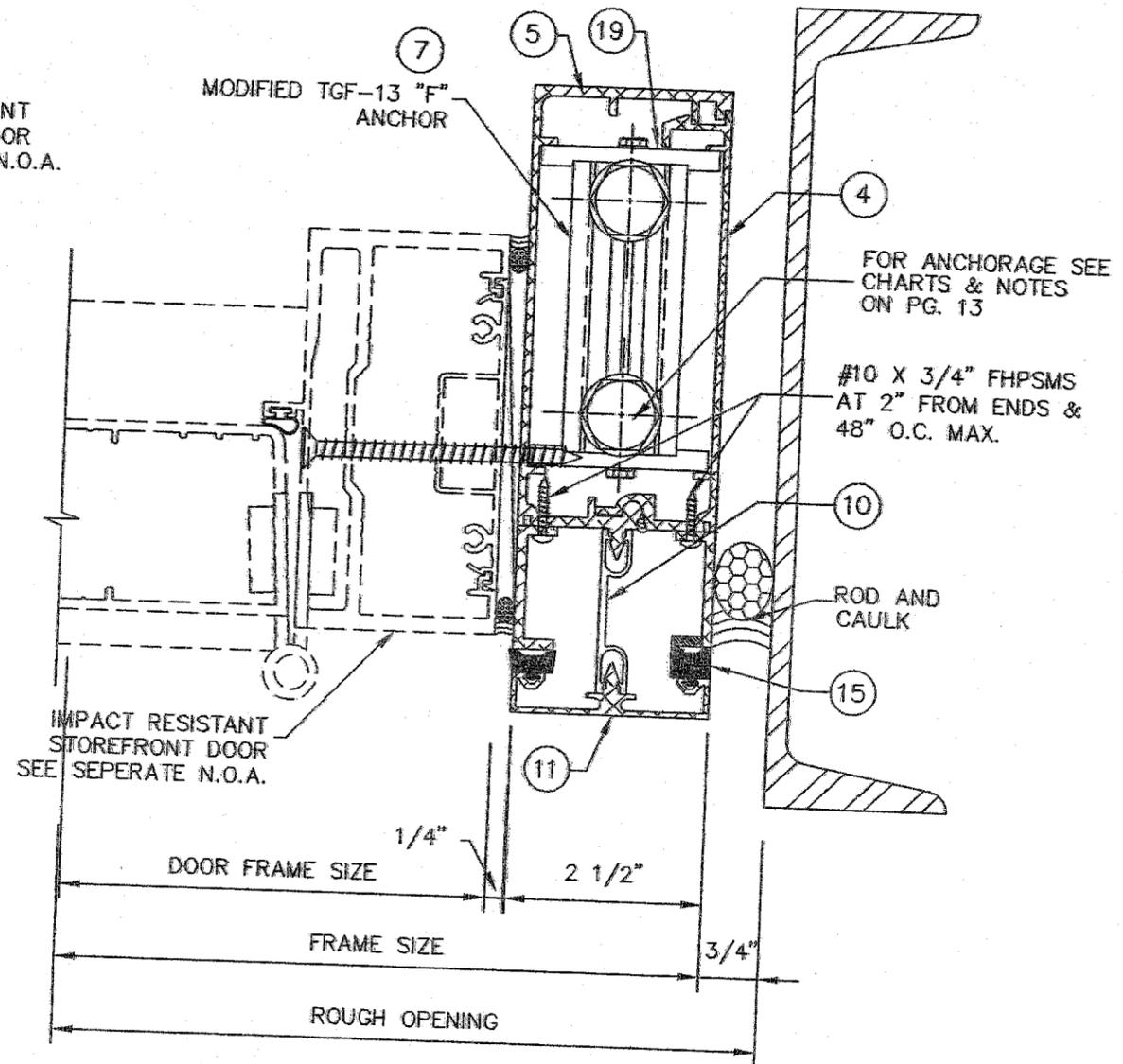
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SCALE: NOTED		SHEET NO: 6		SMALL MISSILE IMPACT W/ REINFORCED MULLIONS	
DRAWN: TOM C.		CHECKED BY:		NO.   DATE   BY	
				REVISIONS	



TRAINOR COMPANY  
 1101 13th STREET WEST, RIVIERA BEACH, FL 33404  
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 www.trainorjasa.com  
 ATLANTA, GA. CHICAGO, IL DENVER, CO. ORLANDO, FL. NEWARK, NJ.



(D) MULLION AT DOOR JAMB



(E) JAMB MULLION

Approved as complying with the  
 Florida Building Code  
 Date 10/20/05  
 NOAH 05-0824.06  
 Miami Dade Product Control  
 Division  
 By [Signature]

BROMLEY COOK ENGINEERING, INC.  
 STRUCTURAL ENGINEERING SERVICES  
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WILLIAM D. COOK P.E.  
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 FLA S.I. # 2008

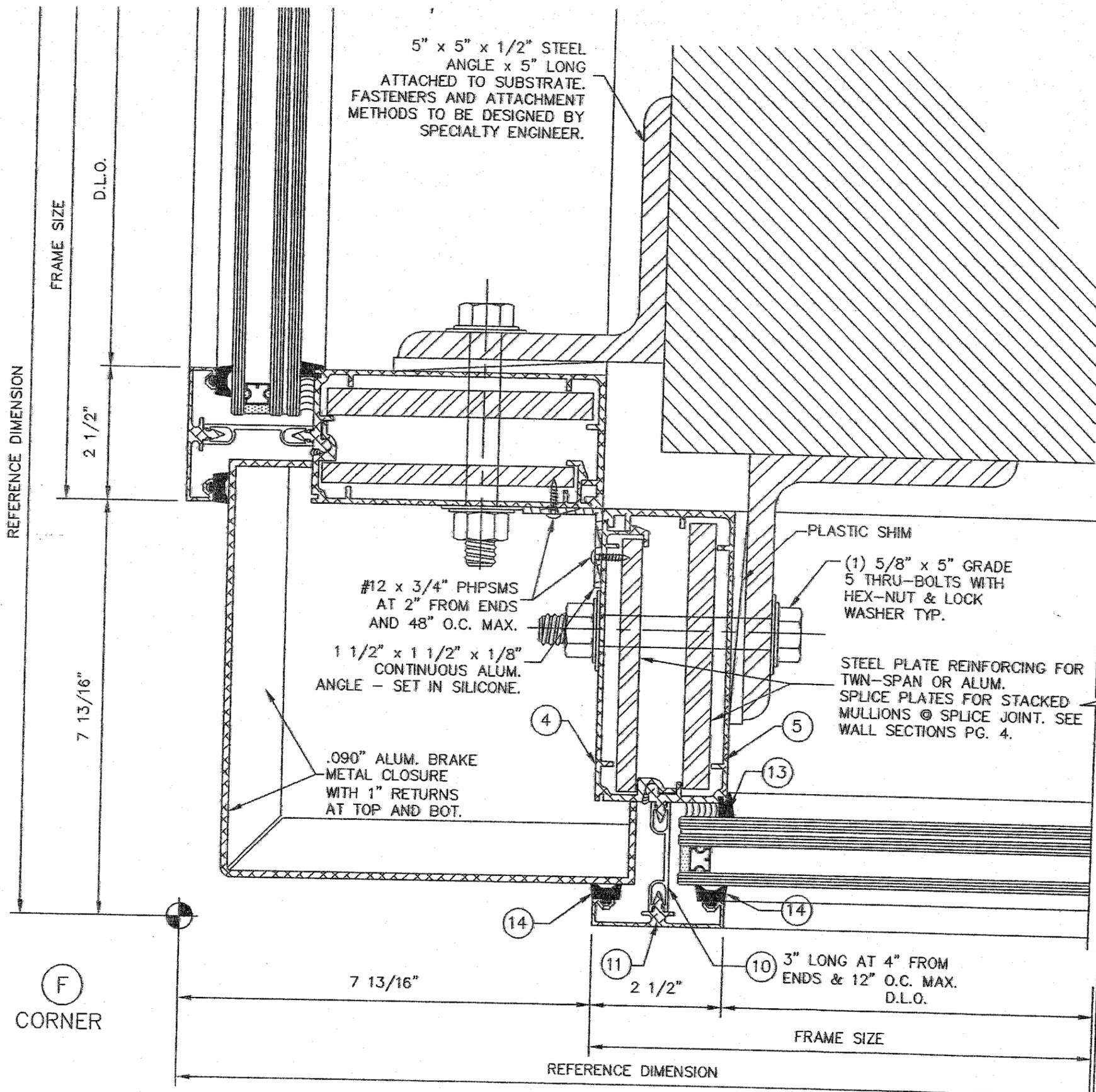
G L A S S C O M P A N Y  
 1101 13th STREET WEST, RIVERA BEACH, FL 33404  
 PH. (561) 863-7078 FAX (561) 863-7088  
 www.trainor.com  
 ATLANTA, GA CHICAGO, IL DENVER, CO ORLANDO, FL NEWARK, NJ

**TRAINOR**

NO.	DATE	BY	REVISIONS

PROJECT NAME: TCW-250TS SERIES  
 SMALL MISSILE IMPACT W/ REINFORCED MULLIONS

DATE: 05/23/05	DRAWING NUMBER: TCW250TSM	7 of 14
SCALE: NOTED	SHEET NO.	
DRAWN: TOM C.	CHECKED BY:	



5" x 5" x 1/2" STEEL ANGLE x 5" LONG ATTACHED TO SUBSTRATE. FASTENERS AND ATTACHMENT METHODS TO BE DESIGNED BY SPECIALTY ENGINEER.

#12 x 3/4" PPHSMS AT 2" FROM ENDS AND 48" O.C. MAX.  
1 1/2" x 1 1/2" x 1/8" CONTINUOUS ALUM. ANGLE - SET IN SILICONE.

.090" ALUM. BRAKE METAL CLOSURE WITH 1" RETURNS AT TOP AND BOT.

PLASTIC SHIM  
(1) 5/8" x 5" GRADE 5 THRU-BOLTS WITH HEX-NUT & LOCK WASHER TYP.

STEEL PLATE REINFORCING FOR TWN-SPAN OR ALUM. SPLICE PLATES FOR STACKED MULLIONS @ SPLICE JOINT. SEE WALL SECTIONS PG. 4.

3" LONG AT 4" FROM ENDS & 12" O.C. MAX. D.L.O.

F CORNER

Approved as complying with the Florida Building Code  
Date: 10/20/05  
MOA#: 05-0824-06  
Division: *[Signature]*

BROMLEY COOK ENGINEERING, INC.  
STRUCTURAL ENGINEERING SERVICES  
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WILLIAM D. COOK P.E.  
FLA P.E. # 43904  
FLA S.I. # 2008

REFERENCE DIMENSION  
2 1/2"  
7 13/16"  
FRAME SIZE  
D.L.O.

7 13/16"

7 13/16"

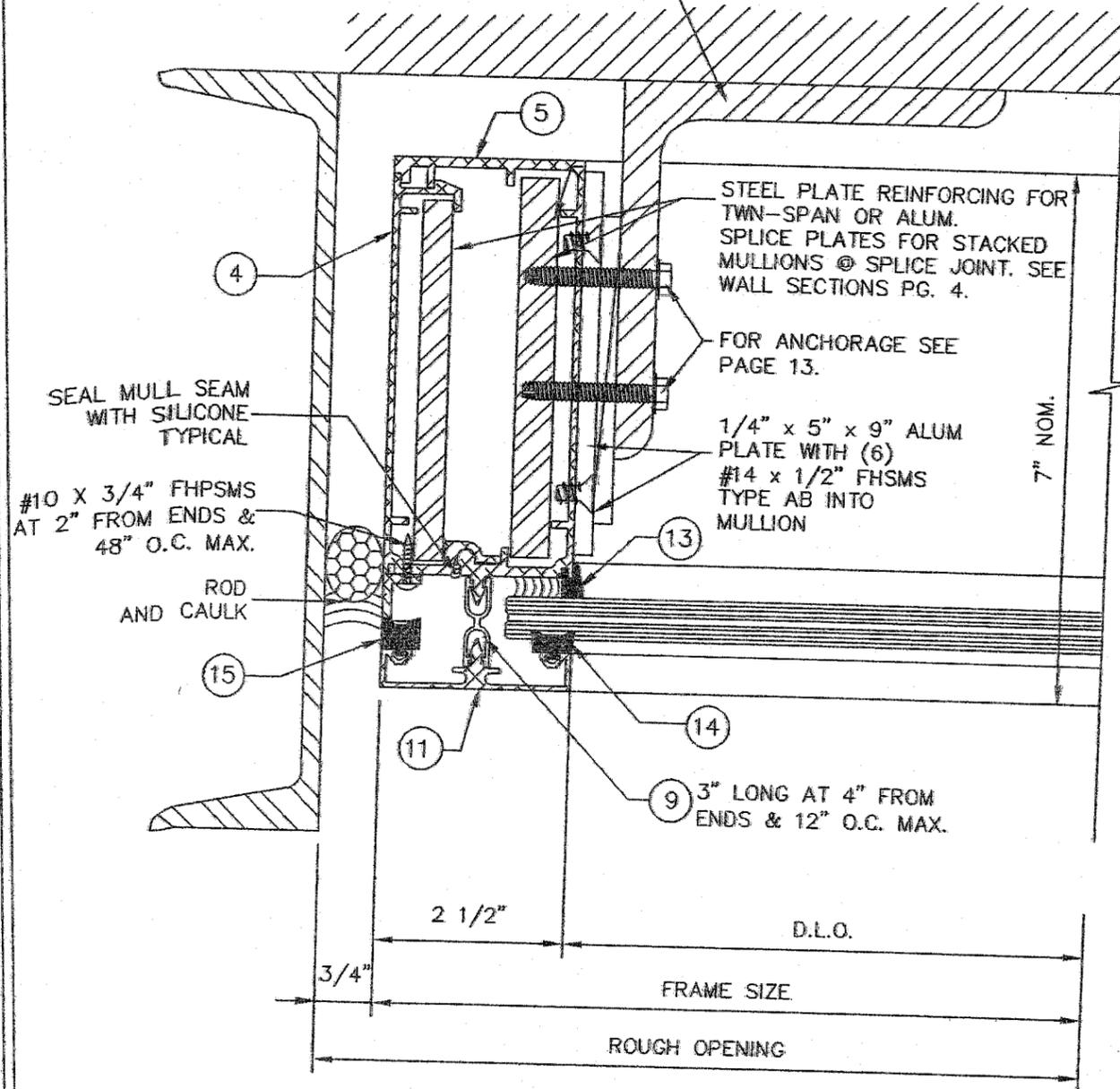
REFERENCE DIMENSION

FRAME SIZE

**TTRAINOR**  
GLASS COMPANY  
1101 13th STREET WEST, RIVIERA BEACH, FL 33404  
PH. (561) 863-7078 FAX (561) 863-7088  
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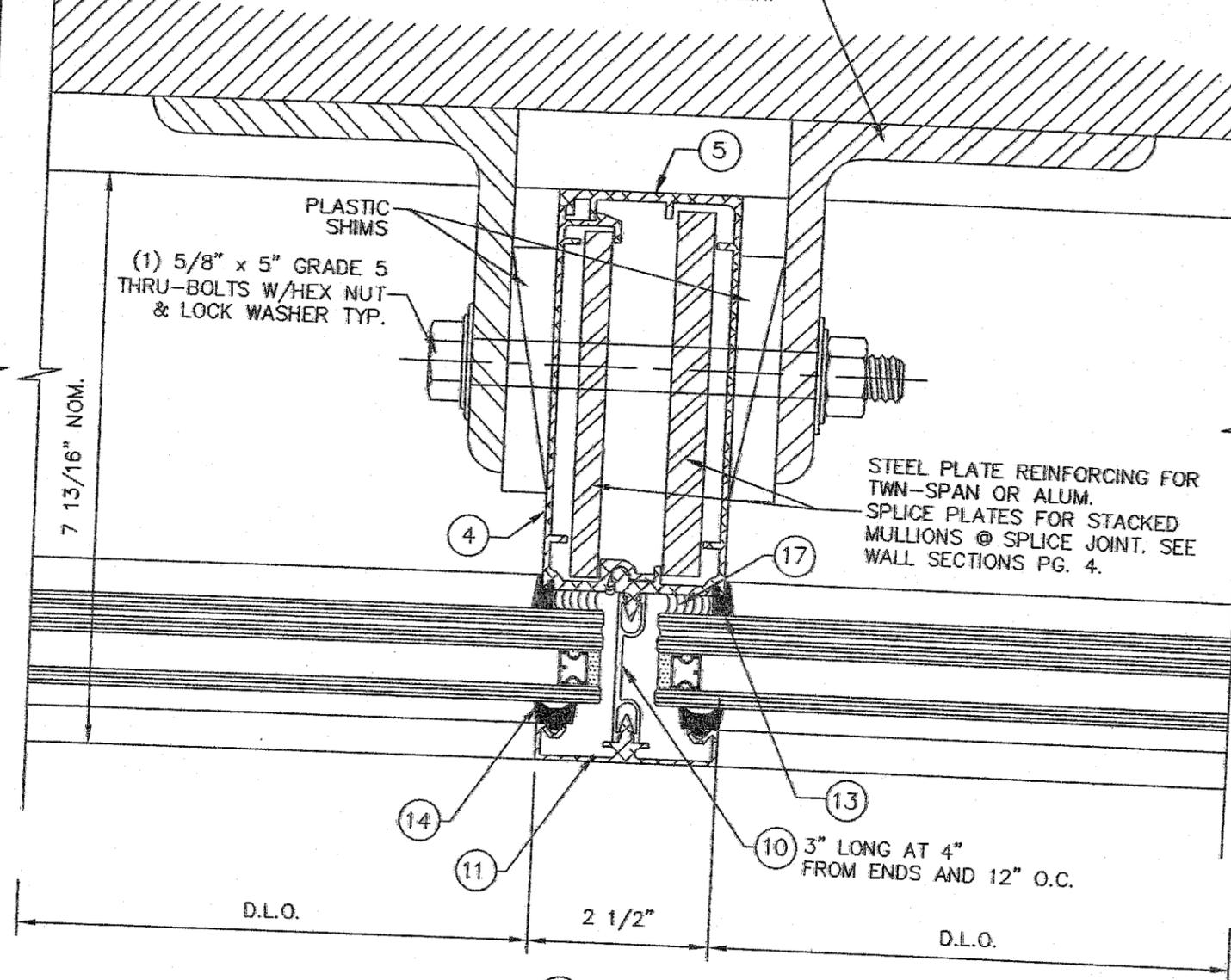
DATE: 05/23/05	NO. DATE	BY	REVISIONS
SCALE: NOTED	NO. DATE	BY	REVISIONS
DRAWN: TOM C.	NO. DATE	BY	REVISIONS
CHECKED BY:	NO. DATE	BY	REVISIONS
PROJECT NAME: TCW-250TS SERIES			
SMALL MISSILE IMPACT W/ REINFORCED MULLIONS			
DRAWING NUMBER: TCW250TS01			
SHEET NO. 8 of 14			

ANGLE x 5" LONG  
ATTACHED TO SUBSTRATE.  
FASTENERS AND ATTACHMENT  
METHODS TO BE DESIGNED BY  
SPECIALTY ENGINEER.

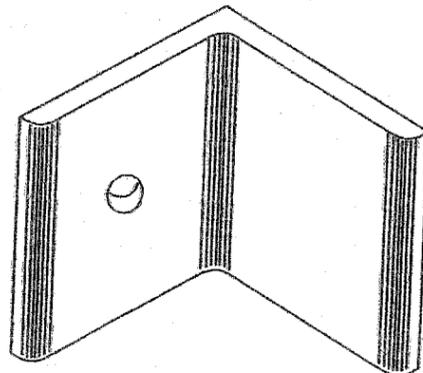


(G) JAMB

ANGLE x 5" LONG  
ATTACHED TO SUBSTRATE.  
FASTENERS AND ATTACHMENT  
METHODS TO BE DESIGNED BY  
SPECIALTY ENGINEER.



(H) MULLION



STEEL ANCHOR CLIP  
ISOMETRIC VIEW

Approved as complying with the  
Florida Building Code  
Date: 10/20/05  
NOAH 05-0824-06  
Miami Dade Product Control  
Division  
By: *[Signature]*

BROMLEY COOK ENGINEERING, INC.  
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5440 N.W. 33RD AVENUE SUITE 100  
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SEP 23 2005

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GLASS COMPANY  
1101 13th STREET WEST, RIVERA BEACH, FL 33404  
PH. (561) 863-7078 FAX (561) 863-7088  
www.trainorglass.com

ATLANTA, GA. CHICAGO, IL DENVER, CO. ORLANDO, FL. NEWARK, NJ.

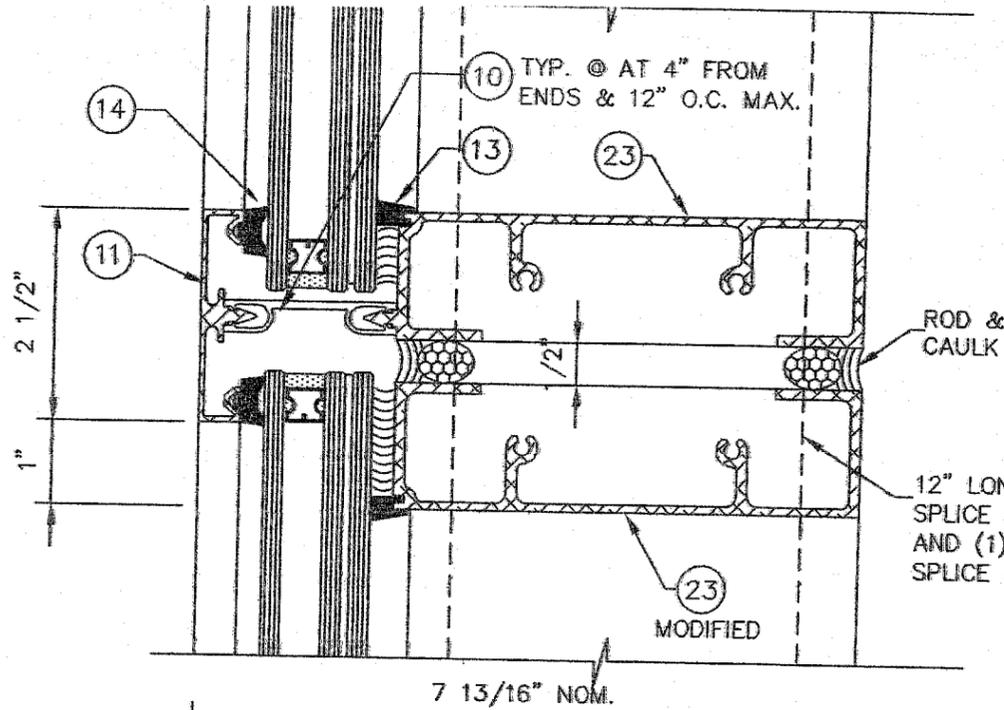
TRAINOR

NO.	DATE	BY	REVISIONS

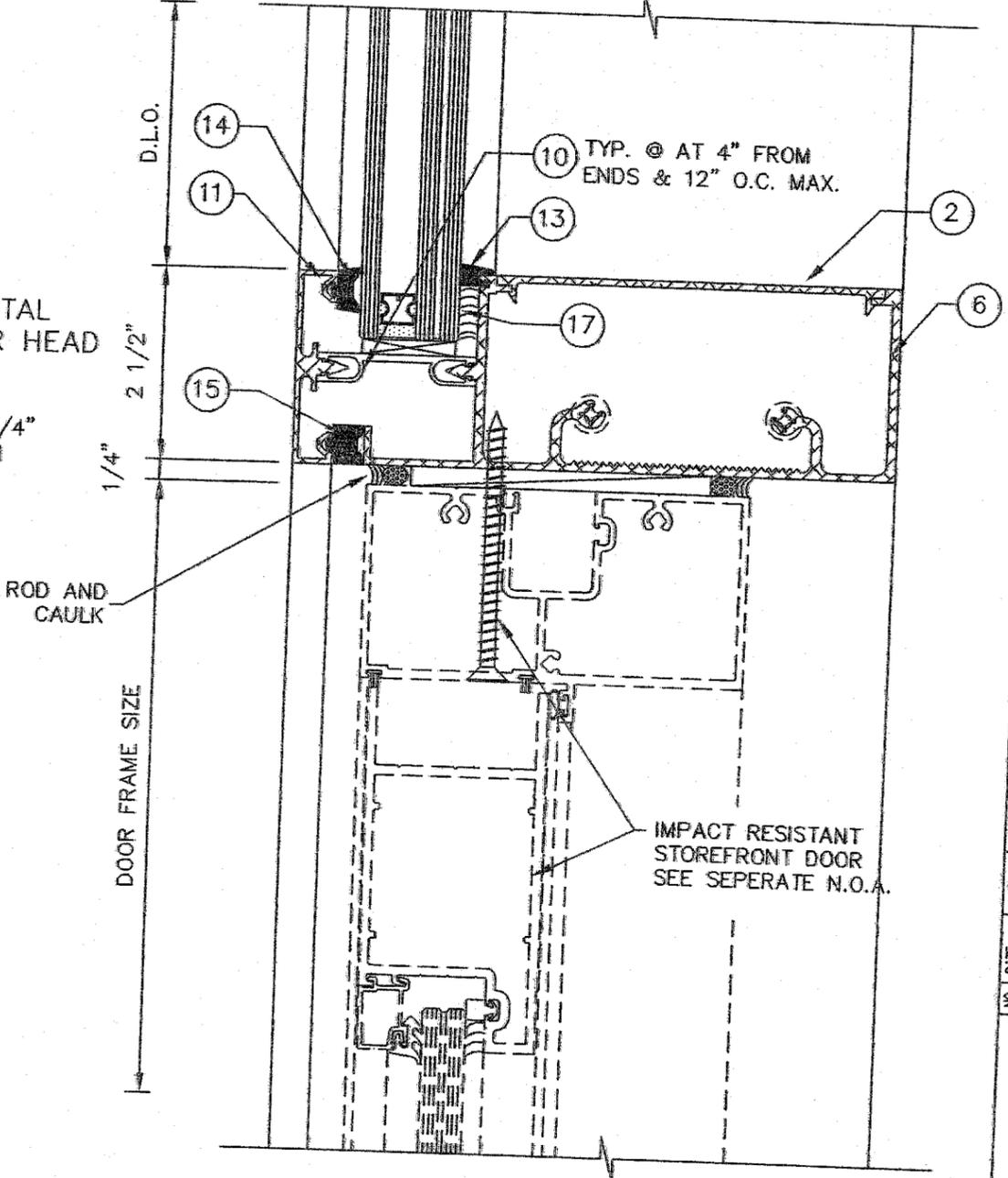
PROJECT NAME: TCW-250TS SERIES  
SMALL MISSILE IMPACT W/ REINFORCED MULLIONS

DATE: 05/23/05  
SCALE: NOTED  
DRAWING NUMBER: TCW/250TS/SMI  
SHEET NO.: 9 of 14  
CHECKED BY: TOM C.

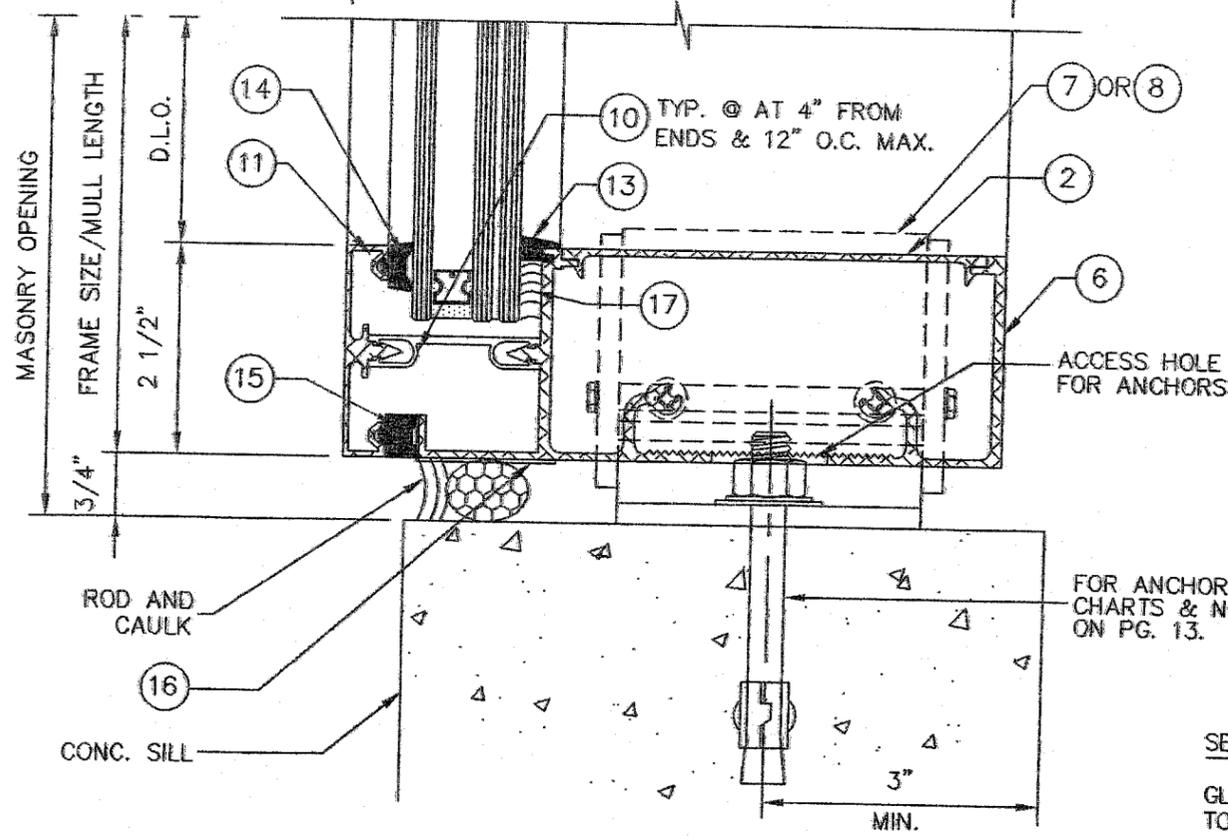
(J)  
HORIZONTAL  
AT STACK JT.



(L)  
HORIZONTAL  
AT DOOR HEAD



(K)  
SILL



FOR ANCHORAGE SEE  
CHARTS & NOTES  
ON PG. 13.

SEALANT NOTES:  
GLAZING BEAD AT FRAME SEALED  
TO GLASS WITH DOW CORNING 983  
FRAME PERIMETER TO STRUCTURE  
SEALED WITH DOW CORNING 795

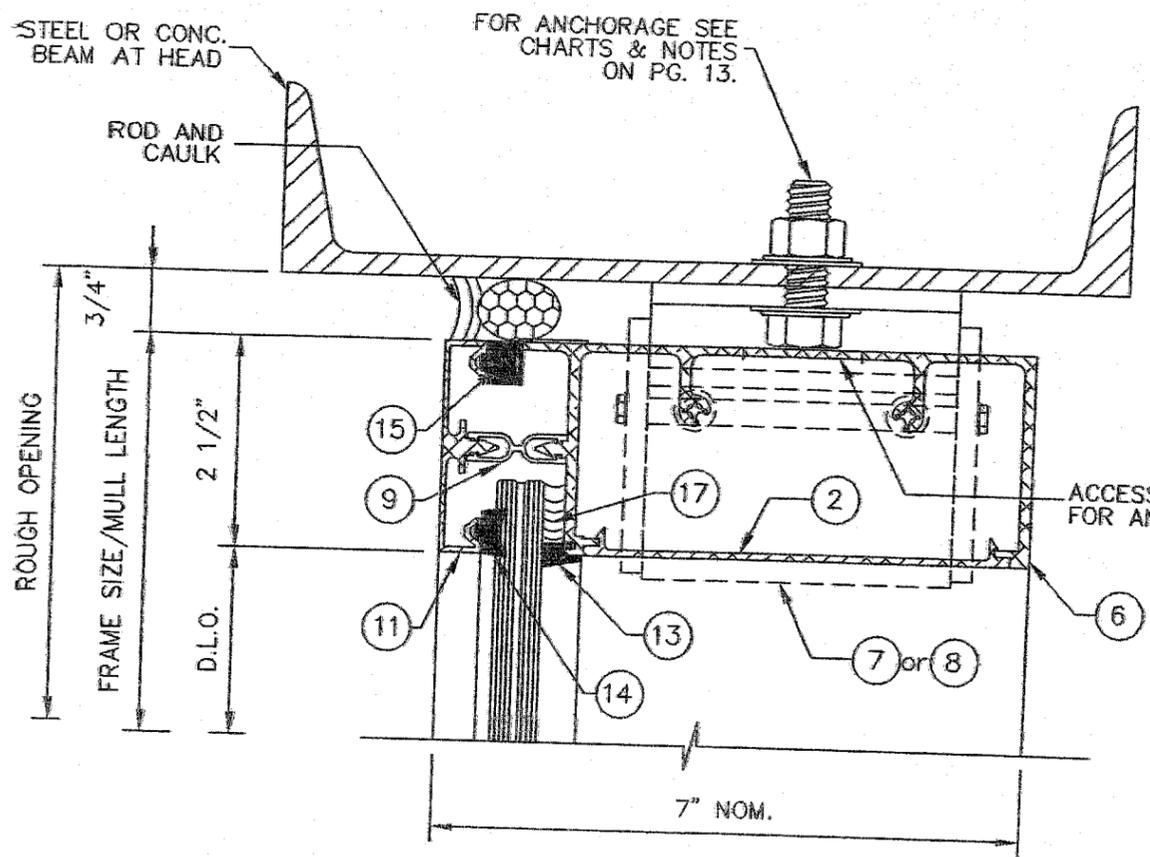
Approved as complying with the  
Florida Building Code  
Date 10/20/05  
NOA# 05-0824-06  
Miami-Dade Product Control  
Division  
By: *[Signature]*

BROMLEY COOK ENGINEERING, INC.  
STRUCTURAL ENGINEERING SERVICES  
5440 N.W. 33RD AVENUE SUITE 100  
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TEL: (954) 772-4624 FAX: (954) 772-4634

SEP 23 2005  
WILLIAM D. COOK P.E.  
FLA P.E. # 43904  
FLA S.I. # 2008

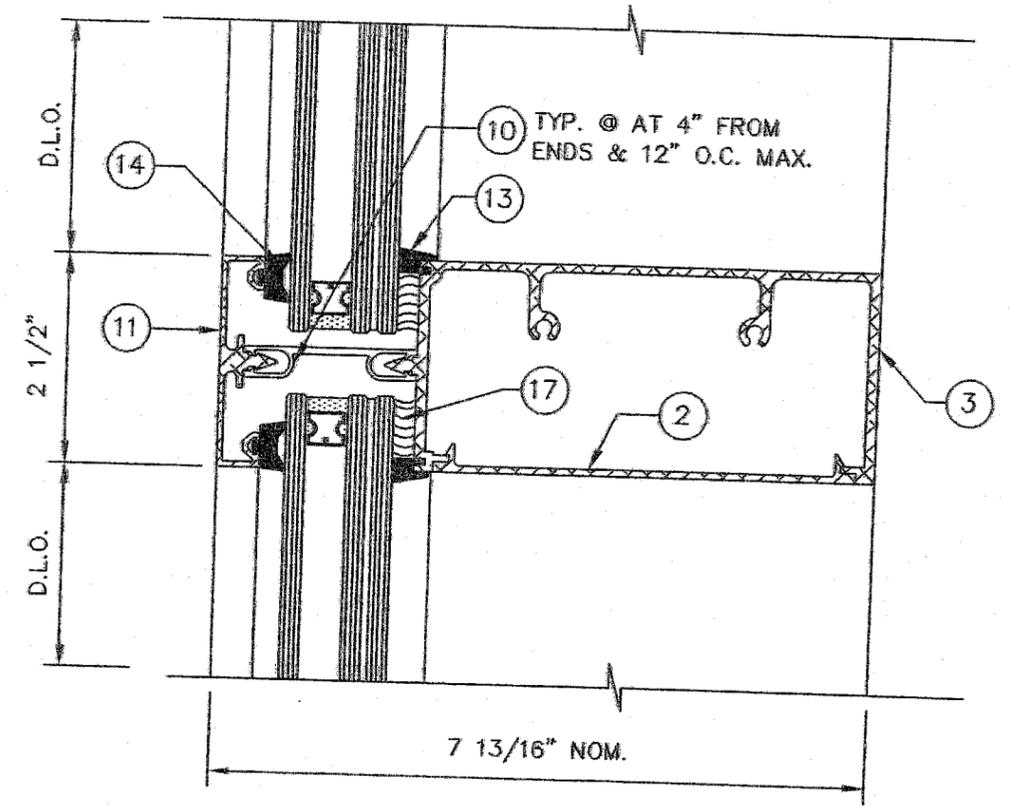
		G L A S S C O M P A N Y 1101 13th STREET WEST, RIVIERA BEACH, FL 33404 PH. (561) 863-7078 FAX (561) 863-7088 www.trainorglass.com	
ATLANTA, GA CHICAGO, IL DENVER, CO ORLANDO, FL NEWARK, NJ		PROJECT NAME: <b>TCW-250TS SERIES</b> SMALL MISSILE IMPACT W/ REINFORCED MULLIONS	
DATE: 05/23/05	SCALE: NOTED	DRAWING NUMBER: TCW250TS/SMI	SHEET NO: 10 of 14
DRAWN: TOM C.	CHECKED BY:	NO. DATE BY	REVISIONS

(M)  
HEAD

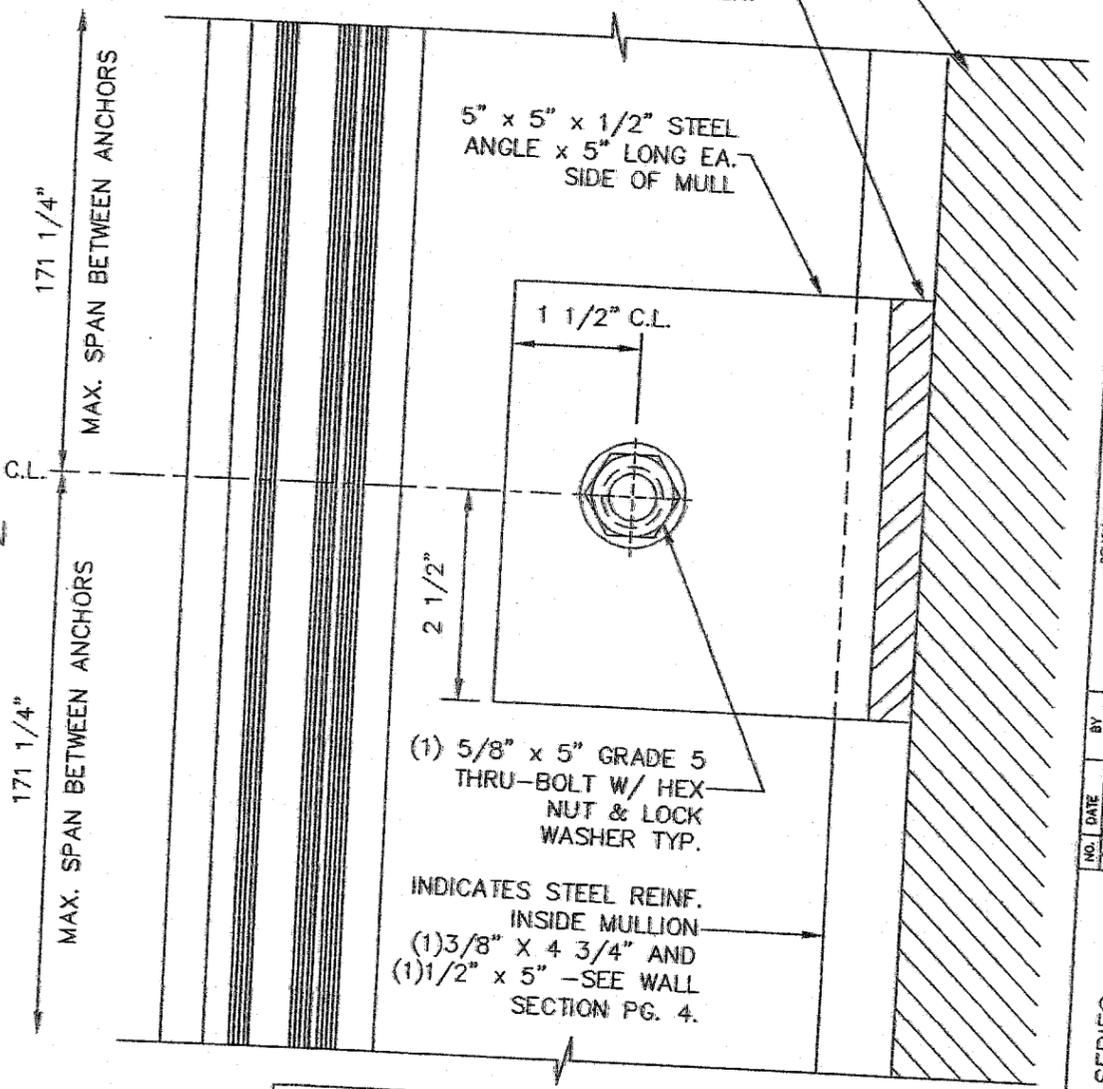


(16)  
.040" ALUM. BOTTOM MULL CAP  
4" LONG  
(ATTACHED WITH SILICONE)

(N)  
INTERMEDIATE  
HORIZONTAL



(P)  
MID-SPAN  
ANCHOR



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NOA# 05-0824-00  
Miami-Dade Product Control  
Division  
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SEP 23 2005

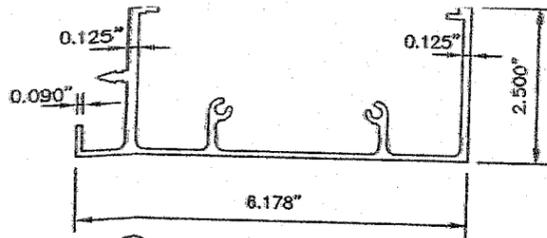
WILLIAM D. COOK P.E.  
FLA P.E. # 43904  
FLA S.I. # 2008

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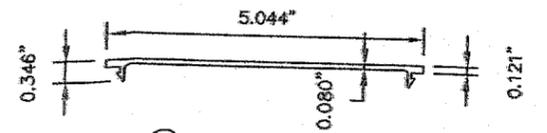
NO.	DATE	BY	REVISIONS
1			
2			
3			

PROJECT NAME: TCW-250TS SERIES  
SMALL MISSILE IMPACT W/ REINFORCED MULLIONS

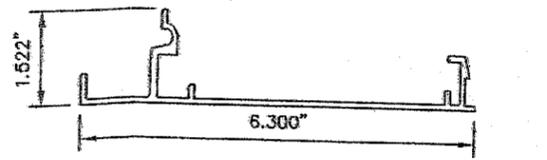
DATE: 05/23/06  
SCALE: NOTED  
DRAWING NUMBER: TCW250TS/SMI  
SHEET NO.: 11 of 14  
DRAWN: TOM C.  
CHECKED BY:



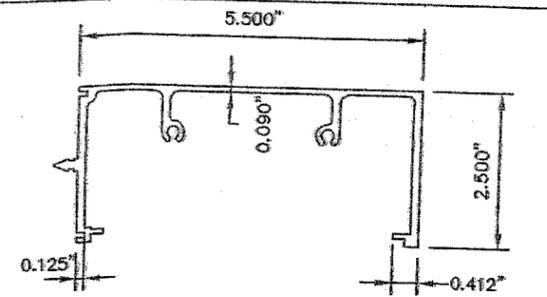
① FRAME - HEAD/SILL TGF-212



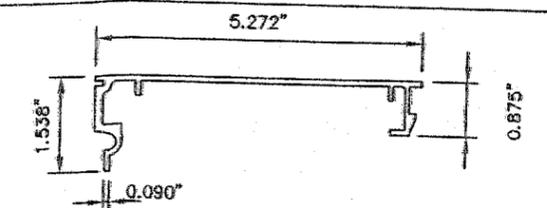
② FILLER TGF-17



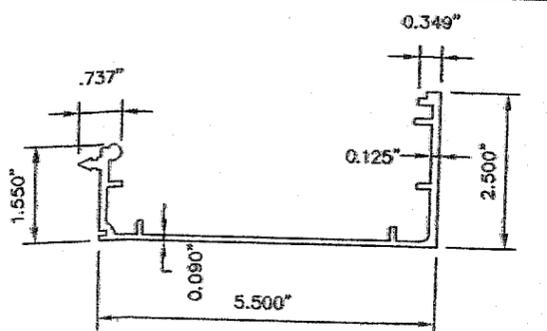
⑫ JAMB TGF-110



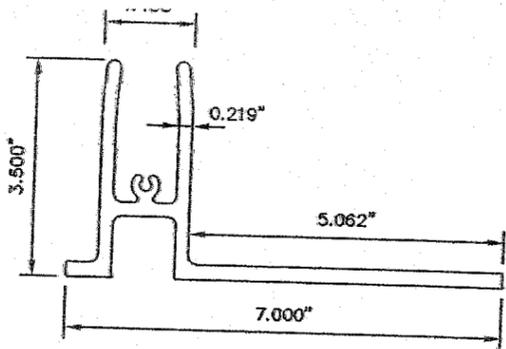
③ INTERMEDIATE TGF-23



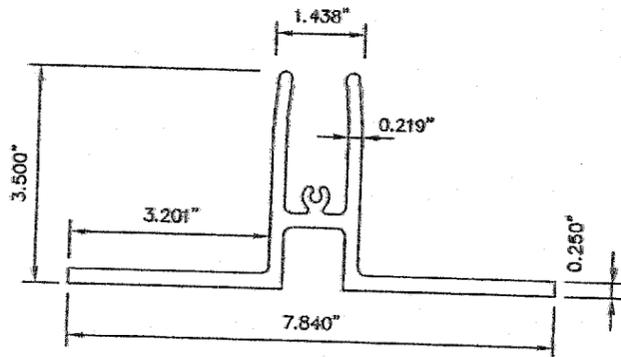
④ FEMALE MULLION TGF-202



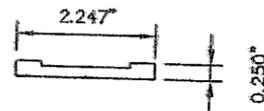
⑤ MALE MULLION TGF-201



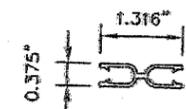
⑦ ANCHOR "F" TGF-13



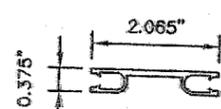
⑧ ANCHOR "T" TGF-14



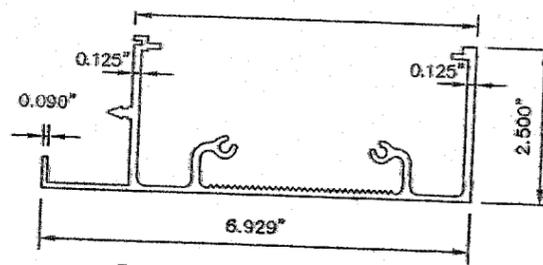
⑱ END PLATE TGF-104



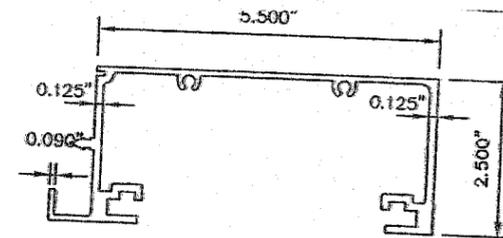
⑨ COVER CLIP TGF-101



⑩ COVER CLIP TGF-102

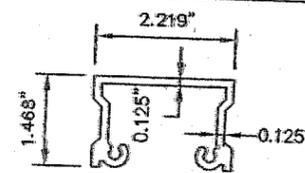


⑥ FRAME - HEAD/SILL TGF-207

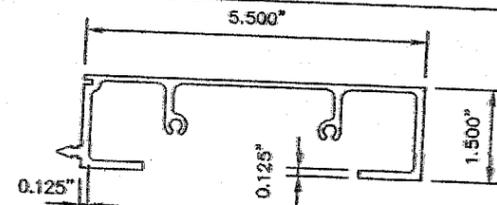


⑫ FRAME HEAD/SILL TGF-86

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANUF./SUPPLIER/REMARKS
①	TGF-212	AS REQ'D	FRAME HEAD/SILL	ALUM. 6063-T5	TRAINOR GLASS CO.
②	TGF-17	AS REQ'D	FILLER	ALUM. 6063-T5	TRAINOR GLASS CO.
③	TGF-23	AS REQ'D	INT. HORIZONTAL	ALUM. 6063-T5	TRAINOR GLASS CO.
④	TGF-202	AS REQ'D	FEMALE MULLION	ALUM. 6063-T6	TRAINOR GLASS CO.
⑤	TGF-201	AS REQ'D	MALE MULLION	ALUM. 6063-T6	TRAINOR GLASS CO.
⑥	TGF-207	AS REQ'D	FRAME HEAD/SILL	ALUM. 6063-T5	TRAINOR GLASS CO.
⑦	TGF-13	1/JAMB	"F" ANCHOR AT JAMBS	ALUM. 6063-T5	TRAINOR GLASS CO.
⑧	TGF-14	1/MULLION	"T" ANCHOR AT MULLIONS	ALUM. 6063-T5	TRAINOR GLASS CO.
⑨	TGF-101	AS REQ'D	COVER CLIP	ALUM. 6063-T5	TRAINOR GLASS CO.
⑩	TGF-102	AS REQ'D	COVER CLIP	ALUM. 6063-T5	TRAINOR GLASS CO.
⑪	TGF-209	AS REQ'D	COVER	ALUM. 6063-T5	TRAINOR GLASS CO.
⑫	TGF-86	AS REQ'D	FRAME HEAD/SILL/JAMB	ALUM. 6063-T6	TRAINOR GLASS CO.
⑬	TR-5796	AS REQ'D	BLOW OUT GASKET	VH1L	TREMCO (SILICONE COMPATIBLE)
⑭	TR-6049	AS REQ'D	GLAZING GASKET	NEOPRENE	TREMCO
⑮	TR-6050	AS REQ'D	GLAZING GASKET	NEOPRENE	TREMCO
⑯	N/A	1/ EA. END	MULLION END CAP	.040 ALUM.	TRAINOR GLASS CO.
⑰	983/995	AS REQ'D	GLAZING COMPOUND	SILICONE	DOW-CORNING
⑱	N/A				
⑲	TGF-104	2/"F" OR "T"	END PLATE	ALUM. 6063-T5	TRAINOR GLASS CO.
⑳	-	AS REQ'D	1/2" X 1 1/2" X 1/2" CHAN.	ALUM. 6063-T5	TRAINOR GLASS CO. (1/8" WALL)
㉑	TGF-15	AS REQ'D	SHEAR BLOCK	ALUM. 6063-T5	TRAINOR GLASS CO.
㉒	TGF-110	AS REQ'D	JAMB MEMBER	ALUM. 6063-T6	TRAINOR GLASS CO.
㉓	TGF-211	AS REQ'D	STACK JT. HEAD/SILL	ALUM. 6063-T6	TRAINOR GLASS CO.



㉑ SHEAR BLOCK TGF-15



㉓ TGF-211 STACK JOINT HEAD/SILL

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 Date: 10/20/05  
 NOAR 05-0824-06  
 Miami Dade Product Control  
 Division  
 By: *[Signature]*

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 STRUCTURAL ENGINEERING SERVICES  
 5440 N.W. 33RD AVENUE SUITE 100  
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SEP 23 2005

WILLIAM D. COOK P.E.  
 FLA P.E. # 43804  
 FLA S.I. # 2008

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 www.trainorglass.com  
 CHICAGO, ILL. DENVER, CO. ORLANDO, FL. NEWARK, N.J. ATLANTA, GA.

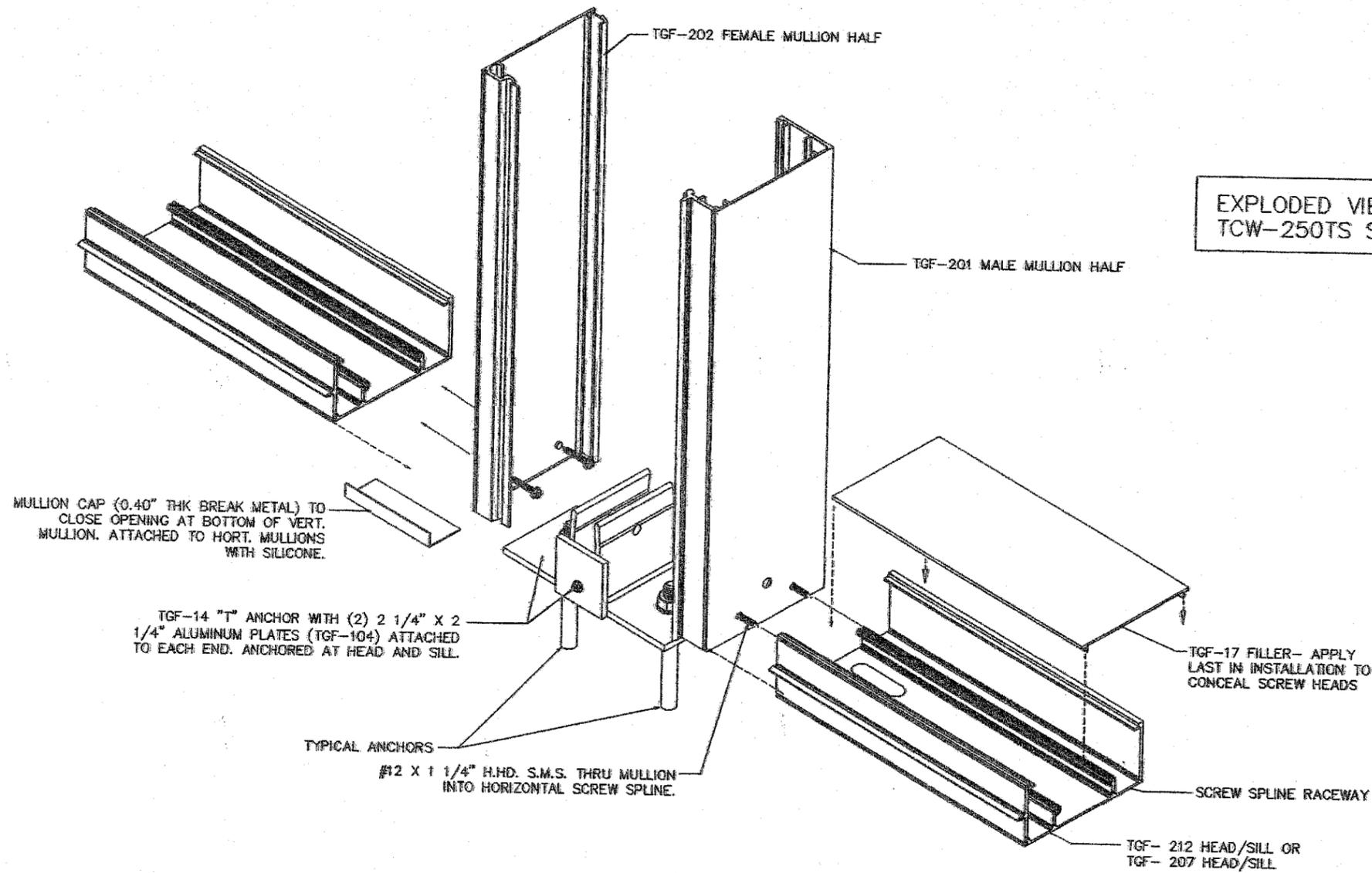
REVISIONS

NO. DATE BY

DATE: 05/23/05  
 SCALE: N.T.S.  
 DRAWING NUMBER: TCW250TSSM  
 SHEET NO.: 12 of 14  
 CHECKED BY:

PROJECT NAME: TCW-250TS SERIES  
 SMALL MISSILE IMPACT W/ REINFORCED MULLIONS





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**BROMLEY COOK ENGINEERING, INC.**  
**STRUCTURAL ENGINEERING SERVICES**  
2004 N.E. 49th STREET  
FORT LAUDERDALE, FLORIDA 33308  
TEL: (954) 772-4624 FAX: (954) 772-4634

SEP 23 2005

WILLIAM D. COOK P.E.  
FLA P.E. # 43904  
FLA S.I. # 2008

DATE: 5/23/05	SCALE: N.T.S.	DRAWING NUMBER: TCW250TSSM1	SHEET NO.: 14 of 14
PROJECT NAME: TCW-250TS SERIES		SMALL MISSILE IMPACT W/ REINFORCED MULLIONS	
NO.	DATE	BY	REVISIONS
1			
2			
3			
4			



**TRAINOR GLASS COMPANY**  
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