

**CORPORATE HEADQUARTERS**

6655 Garden Road  
Riviera Beach, Florida 33404  
HTLTEST.COM  
P: 888.477.2454  
F: 561.881.0075

January 6, 2011

Mr. Ralph Gordon  
American Products Inc. (API)  
12157 W Linebaugh Ave #335  
Tampa, FL 33626

Re: American Products Inc. (API)'s API CW750 Curtain Wall System (HTL Test Report Package # 0594-1003-10)

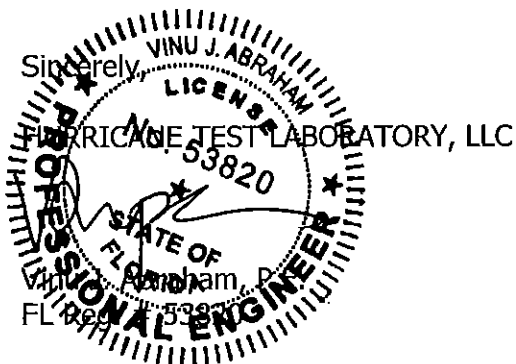
Dear Mr. Gordon,

The enclosed test report package contains documents for American Products Inc. (API)'s API CW750 Curtain Wall System tested by Hurricane Test Laboratory, LLC (HTL).

This test report package includes the following items:

- HTL Test Report # 0594-1003-10 (10 pages)
- American Products Inc. (API)'s drawing labeled "Curtainwall" (Appendix A, 11 sheets)

If you have any questions, please feel free to contact our office.



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Test Report #: 0594-1003-10  
Report Expiration: 1/6/2016  
Specimen #: 1  
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**American Products, Inc. (API)**

API CW750 Curtain Wall  
Test Report #: 0594-1003-10

**1.0 MANUFACTURER'S IDENTIFICATION**

- 1.1 Name of Applicant: American Products, Inc. (API)  
12157 W Linebaugh Ave #335  
Tampa, FL 33626  
Voice: 813.925.0144  
Fax: 813.925.1414
- 1.2 Contact Person: Ralph Gordon

**2.0 LABORATORY IDENTIFICATION**

- 2.1 HTL Test Notification: HTL10049
- 2.2 HTL Lab Certifications: Miami-Dade County (05-1014.01); Florida Building Code (TST1527); IAS (TL-244); AAMA; WDMA; Keystone Certifications; Texas Department of Insurance

**3.0 SCOPE OF WORK**

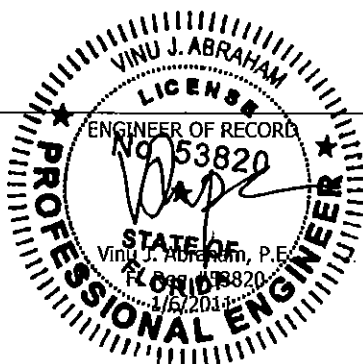
- 3.1 Introduction  
American Products Inc. (API) retained HTL, LLC to conduct ASTM and AAMA testing on their API CW750 Curtain Wall system.
- 3.2 Report Information  
Table 1 provides the test dates for this specimen number.

Table 1: Specimen Test Dates

Specimen #	Test Dates
1	11/12/10 – 12/3/10

**4.0 PRODUCT IDENTIFICATION**

- 4.1 Product Type: Curtain Wall
- 4.2 Model Designation: API CW750
- 4.3 Performance Class: +/- 50 psf
- 4.4 Overall Size: 182-1/2" (w) x 312" (h)



REPORT WRITER

*[Signature]*  
Angela Abramczyk & Alan Rule

1/6/2011

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- 4.5 Number of Operable Door Leaves: None used
- 4.6 Configuration: See American Products Inc. (API)'s drawing labeled "Curtainwall", sheet 1, for an overall elevation of this specimen.
- 4.7 Drawing: This test report is incomplete if not accompanied by American Products Inc. (API)'s drawing labeled "Curtainwall" (sheets 1 through 11) bearing the ink stamp of Hurricane Test Laboratory, LLC.
- 4.8 Sample Source: Specimen provided by American Products Inc. (API).

**5.0 PRODUCT DESCRIPTION**5.1 Frame Construction

The frame was fabricated using the aluminum extrusions defined in Table 2.

Table 2: Aluminum Extrusion Details

Description	Part #	Overall Cross-Section	Alloy-Temper	Type of Thermal Break
Head, Sill & Frame Jambs (Light Mullion)	CW750-001	6.500" x 2.500" x 0.110"	6063-T6	EPDM (Part # CW750-377)
Intermediate Horizontal	CW750-001	6.500" x 2.500" x 0.110"	6063-T6	
Intermediate Vertical (Heavy Mullion)	CW750-002	6.500" x 2.500" x 0.110"	6063-T6	

5.1.1 Corner Construction

At each frame corner, the vertical frame member ran through while the horizontal frame member end was square cut, butted and mechanically fastened to the vertical frame member via a 1-9/16" (long) aluminum shear block (Part # CW750-155 at the head and sill and Part # CW750-154 at the intermediate horizontals). At each top frame corner, the shear block was attached to the vertical frame member using two (2), 1/4" x 2" PH TFS. At all other corners, the shear block was attached to the vertical frame member using two (2), #12 x 1-7/8" PH TFS. Each horizontal frame member end was attached to the adjacent shear block using two (2), #12 x 7/8" FH TFS. The head of each corner fastener was sealed using Dow Corning® 795 Silicone Building Sealant. There was a joint plug (Part # CW750-375) at the end of each horizontal member.

5.1.2 Joint Sealant

Dow Corning® 795 Silicone Building Sealant

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**5.2 Pressure Plate and Snap Cover Assembly**

Table 3 provides the extrusions used in the pressure plate and snap cover assemblies.

Table 3: Pressure Plate and Snap Cover Details

Description	Part #	Overall Cross-Section	Alloy-Temper	Type of Thermal Break
Pressure Plate	CW750-150	0.536" x 2.500" x 0.100"	6063-T6	None
Perimeter Pressure Plate	CW750-151	1.786" x 2.500" x 0.100"	6063-T6	None
Cap	CW750-003	0.504" x 2.500" x 0.060"	6063-T6	None

**5.2.1 Pressure Plate Assembly**

Each pressure plate was square cut at each end and secured to the adjacent frame member using 1/4" x 1" HWH TFS. The horizontal fastener spacing was 4" from each end and at 9" on center thereafter. The vertical fastener spacing was 1-1/2" from each end and at 9" on center thereafter. There was a 70 durometer EPDM gasket (Part # CW750-378) on each pressure plate located at the perimeter of the sample. The gasket was inserted into the raceway included in the perimeter pressure plate extrusion.

**5.2.2 Snap Cover Assembly**

At the exterior of all pressure plates, the cap (Part # CW750-003) was snap fit to the pressure plate.

**5.3 Glazing Details****5.3.1 Glazing Materials**

Glass Type GL1 consisted of 1" thick (nominal) insulated glass comprised of the following components:

- 1/4" heat strengthened glass
- 1/2" air space
- 1/4" heat strengthened glass

Glass Type GL/A consisted of 1" thick (nominal) insulated glass comprised of the following components:

- 1/4" tempered glass
- 1/2" air space
- 1/4" tempered glass

**5.3.2 Glazing Method**

The glass lites used in the test specimen were exterior glazed using the following (typical) procedures:

**5.3.2.1 Interior Side**

Using a 70 durometer EPDM glazing gasket (Part # CW750-376).

**5.3.2.2 Exterior Side**

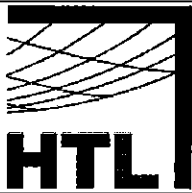
Using a 70 durometer EPDM glazing gasket (Part # CW750-376)

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**5.3.3 Daylight Opening and Glass Bite**

Table 4 provides the daylight opening and glass bite for each lite used in this test specimen.

**Table 4: Daylight Opening Size and Glass Bite Details**

Qty.	Glazing Material Type	Location	Daylight Opening Size	Glass Bite
3	GL1	Top row of lites	57-1/2" (w) x 53-3/4" (h)	1/2"
3	GL1	Second row of lites (from top)	57-1/2" (w) x 96" (h)	1/2"
3	GL1	Third row of lites (from top)	57-1/2" (w) x 11-1/4" (h)	1/2"
3	GL/A	Bottom row of lites	57-1/2" (w) x 138-1/2" (h)	1/2"

**5.4 Weather Stripping**

None used

**5.5 Hardware**

None used

**5.6 Weep Slots & Holes**

Table 5 provides details of the weep slots and holes used in the test specimen.

**Table 5: Weep Hole Details**

Qty.	Location	Description
2/cap (@ sill only)	2" from each end	5/16" diameter weep holes
3/pressure plate	3-3/4" from each end and at the centerline	5/16" x 7/8" weep slots

**5.7 Sealants**

Table 6 provides details of the sealants used in the test specimen.

**Table 6: Sealant Details**

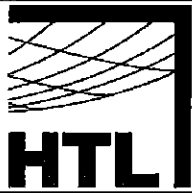
Location	Sealant Description
Perimeter Sealant - Exterior	Dow Corning® 795 Silicone Building Sealant
Perimeter Sealant - Interior	Dow Corning® 795 Silicone Building Sealant
Joint Sealant	Dow Corning® 795 Silicone Building Sealant
Glazing Sealant	None used

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**6.0 PRODUCT INSTALLATION**

Table 7 provides details of the product installation into the steel opening. The rough opening allowed for a 1/2" shim space at the jambs of the specimen.

Table 7: Product Installation Details

Location	Description	Installation	
		Test Opening	Frame member
Jambs (head & sill)	"F" anchor (Part # CW750-153)	Two (2), 1/4"-20 x 3" FH self-drilling, self-tapping screws	Slide in
Intermediate Mullions (head & sill)	"T" anchor (Part # CW750-152)	Four (4), 1/4"-20 x 3" FH self-drilling, self-tapping screws	Slide in
Intermediate Mullions	Two (2) wind load anchors (Part # CW750-157) @ 2" from bottom of middle intermediate horizontal	1/8" fillet welds @ the top, bottom and side of the leg adjacent to the steel chamber	One (1), 1/2" x 4" bolt with matching washers and nut

Note: There was a 1/8" shim between each wind load anchor and the intermediate vertical.

**7.0 TEST SEQUENCE**

Table 8 provides a summary of the test sequence for the specimen.

Table 8: Test Sequence

Test Specimen 1
1. Air Infiltration Test
2. Water Infiltration Test
3. Dynamic Water Infiltration Test
4. Uniform Static Load Test: Positive Pre-Load
5. Uniform Static Load Test: Positive Design Load
6. Uniform Static Load Test: Negative Pre-Load
7. Uniform Static Load Test: Negative Design Load
8. Water Infiltration Test
9. Uniform Static Load Test: Positive Overload
10. Uniform Static Load Test: Negative Overload

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## 8.0 TEST RESULTS

### 8.1 Air Infiltration Test

#### 8.1.1 Results

Table 9 provides the results for the air infiltration test.

Table 9: Air Infiltration Test Results

Specimen #	Test Pressure (psf)	Measured (cfm/ft <sup>2</sup> )	Allowed (cfm/ft <sup>2</sup> )
1	+1.57	0.03	N/A
	+6.24	0.06	0.06

#### 8.1.2 Conclusion

HTL observed a measured air infiltration less than the allowed air infiltration through the test specimen; as such, this test specimen satisfies the requirements of ASTM E283.

### 8.2 Water Infiltration Test

#### 8.2.1 Results

Table 10 provides the results for the water infiltration test.

Table 10: Water Infiltration Test Results

Specimen #	Test Pressure (psf)	Spray Rate (gph/ft <sup>2</sup> )	Test Duration (minutes)	Conclusion
1	15	5.0	15.00	No Entry

#### 8.2.2 Conclusion

HTL observed zero (0) water infiltration through the test specimen; as such, this test specimen satisfies the requirements of ASTM E331.

### 8.3 Dynamic Water Infiltration Test

#### 8.3.1 Results

Table 11 provides the results for the dynamic water infiltration test conducted per the requirements of AAMA 501.1

Table 11: Dynamic Water Infiltration Test Results

Specimen #	Test Pressure (psf)	Measured	Allowed
1	15	No Entry	No Entry

#### 8.3.2 Conclusion

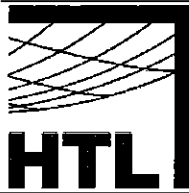
HTL observed zero (0) water infiltration through the test specimen; as such, the test specimen satisfies the requirements of AAMA 501.1.

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8.4 Uniform Static Load Test8.4.1 Deflection Gage Locations

Figure 1 shows the deflection gage locations for the uniform static load test.

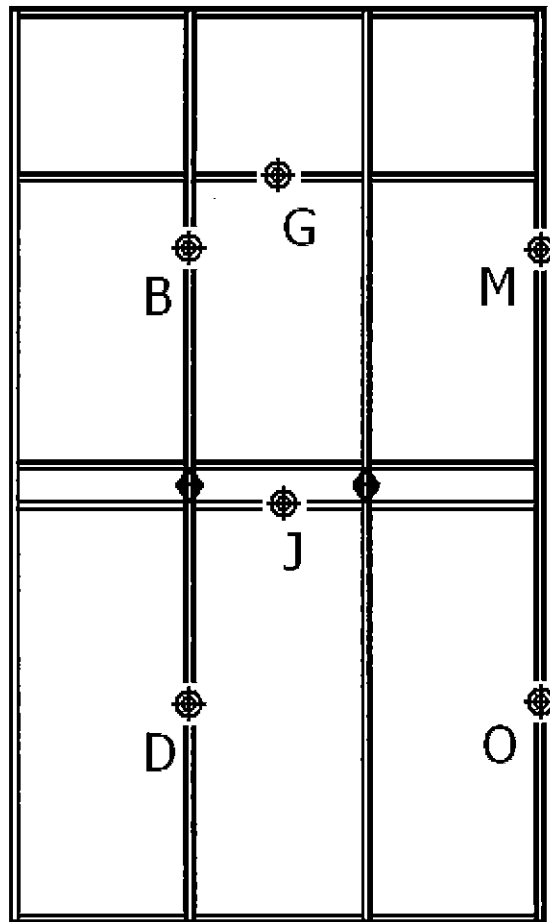


Figure 1: Deflection Gage Locations

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**8.4.2 Results**

Tables 12 and 13 provide the positive and negative uniform static load test results, respectively. The results are for the deflection gage locations shown in Section 8.4.1. The deflection reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

**Table 12: Positive Uniform Static Load Test Results**

Specimen #	Gage Location	Load (psf)	Deflection (in.)		Permanent Set (in.)	
			Measured	Allowed	Measured	Allowed
1	B	+37.5	0.399	0.905	0.016	0.326
		+50.0	0.524	0.905	0.016	
		+75.0	0.873	N/A	0.032	
	D	+37.5	0.222	0.831	0.012	0.299
		+50.0	0.274	0.831	0.017	
		+75.0	0.360	N/A	0.017	
	G	+37.5	0.019	0.333	0.000	0.120
		+50.0	0.021	0.333	0.000	
		+75.0	0.000	N/A	0.000	
	J	+37.5	0.013	0.333	0.001	0.120
		+50.0	0.020	0.333	0.002	
		+75.0	0.017	N/A	0.001	
	M	+37.5	0.036	0.905	0.000	0.326
		+50.0	0.051	0.905	0.000	
		+75.0	0.128	N/A	0.011	
	O	+37.5	0.024	0.831	0.002	0.299
		+50.0	0.031	0.831	0.015	
		+75.0	0.070	N/A	0.008	

**Table 13: Negative Uniform Static Load Test Results**

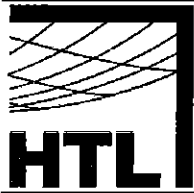
Specimen #	Gage Location	Load (psf)	Deflection (in.)		Permanent Set (in.)	
			Measured	Allowed	Measured	Allowed
1	B	-37.5	0.347	0.905	0.028	0.326
		-50.0	0.532	0.905	0.025	
		-75.0	0.740	N/A	0.000	
	D	-37.5	0.158	0.831	0.017	0.299
		-50.0	0.252	0.831	0.012	
		-75.0	0.384	N/A	0.017	
	G	-37.5	0.000	0.333	0.000	0.120
		-50.0	0.000	0.333	0.000	
		-75.0	0.138	N/A	0.010	
	J	-37.5	0.006	0.333	0.000	0.120
		-50.0	0.016	0.333	0.000	
		-75.0	0.024	N/A	0.000	

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Table 13: Negative Uniform Static Load Test Results (continued)

Specimen #	Gage Location	Load (psf)	Deflection (in.)		Permanent Set (in.)	
			Measured	Allowed	Measured	Allowed
	M	-37.5	0.050	0.905	0.000	0.326
		-50.0	0.059	0.905	0.000	
		-75.0	0.134	N/A	0.001	
	O	-37.5	0.028	0.831	0.003	0.299
		-50.0	0.038	0.831	0.000	
		-75.0	0.055	N/A	0.000	

#### 8.4.3 Conclusion

HTL observed no signs of failure in any area of this test specimen during the uniform static load test. In addition, this test specimen met the deflection and permanent set requirements; as such, this test specimen satisfies the uniform static load test requirements of ASTM E330.

### 8.5 Water Infiltration Test

#### 8.5.1 Results

Table 14 provides the results for the water infiltration test.

Table 14: Water Infiltration Test Results

Specimen #	Test Pressure (psf)	Spray Rate (gph/ft <sup>2</sup> )	Test Duration (minutes)	Conclusion
1	15	5.0	15.00	No Entry

#### 8.5.2 Conclusion

HTL observed zero (0) water infiltration through the test specimen; as such, this test specimen satisfies the requirements of ASTM E331.

## 9.0 SUMMARY

Table 15 provides a summary of the test results for American Products Inc. (API)'s API CW750 Curtain Wall system.

Table 15: Summary of Test Results

Test Method	Test Conditions	Test Conclusion
Air Infiltration Test (ASTM E283)	1.57 & 6.24 psf	PASS
Water Infiltration Test (ASTM E331)	15 psf	PASS
Dynamic Water Infiltration Test (AAMA 501.1)	15 psf	PASS
Static Load Test (ASTM E330)	+/- 50 psf Design Pressure	PASS
Water Infiltration Test (ASTM E331)	15 psf	PASS

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**10.0 CERTIFICATION AND DISCLAIMER STATEMENT**

All tests performed on this test specimen were conducted in accordance with the specifications of the applicable codes, standards and test methods listed below by HTL, LLC. HTL, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products tested at HTL. HTL is not owned, operated or controlled by any company manufacturing or distributing products it tests. This report is only intended for the use of the entity named in Section 1.0 of this report. Detailed assembly drawings showing wall thickness of all members, corner construction and hardware applications are on file and have been compared to the test specimen submitted. A copy of this test report along with representative sections of the test specimen will be retained at HTL for a period of three (3) years. All results obtained apply only to the specimen tested and they do indicate compliance with the performance requirements of the test methods and specifications listed in the following section.

**11.0 APPLICABLE CODES, STANDARDS, AND TEST METHODS**

ASTM E283-04 – Standard Test Method for Determining Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen

ASTM E330-02 – Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference

ASTM E331-00 – Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference

AAMA 501.1-05 – Standard Test Method for Water Penetration of Windows, Curtainwalls and Doors Using Dynamic Pressure

**12.0 WITNESSES (ALL OR PARTIAL)**

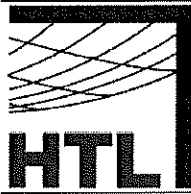
Vinu J. Abraham, P.E.	CEO	HTL, LLC
Kristin Norville, E.I.	Assistant Operations Manager	HTL, LLC
Craig Dukes	Test Technician	HTL, LLC
John Spallina	Test Technician	HTL, LLC
Kris Conte	Test Technician	HTL, LLC
Martin Gibbard	Test Technician	HTL, LLC
Veron Wickham	Test Technician	HTL, LLC

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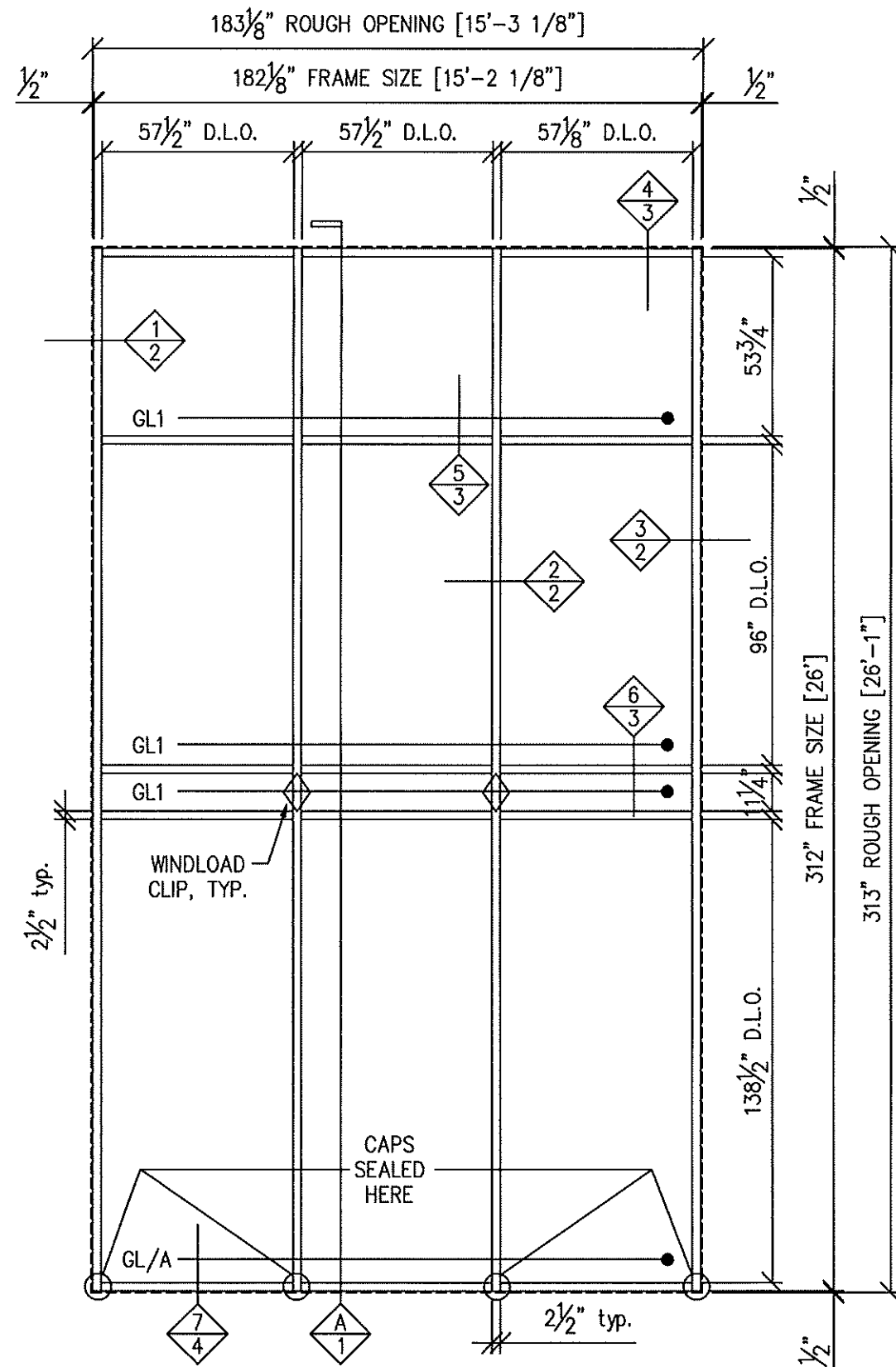
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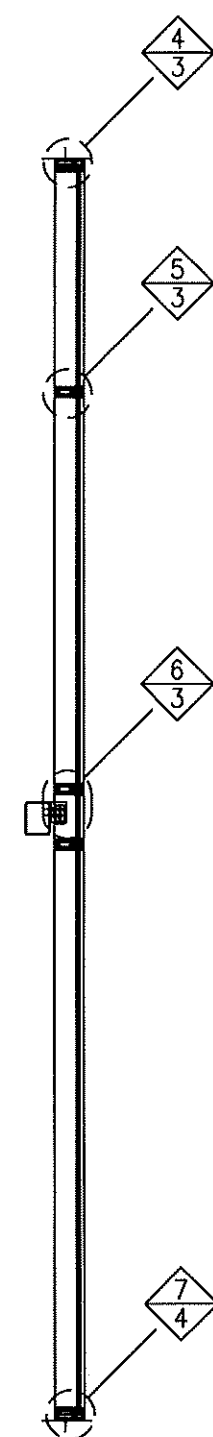
**APPENDIX A:**

American Products Inc. (API)'s drawing labeled "Curtainwall"  
11 SHEETS



**Elevation**

ALLOWABLE DESIGN PRESSURE  
± 50 P.S.F.

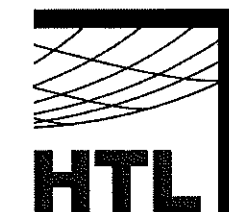


**Section A**  
ARCH. REF.  
SCALE: 1/4"=1'-0"

**Bill of Materials**

Part	Material	Part No.
2 1/2"x5 1/4" Light Mullion for 1" glass	ALU 6063-T6	CW750-001
2 1/2"x5 1/4" Heavy Mullion for 1" glass	ALU 6063-T6	CW750-002
3/4" Snap on Cap	ALU 6063-T6	CW750-003
Pressure Plate	ALU 6063-T6	CW750-150
Perimeter Pressure Plate	ALU 6063-T6	CW750-151
"T" Anchor	ALU 6063-T6	CW750-152
"F" Anchor	ALU 6063-T6	CW750-153
Shear Block	ALU 6063-T6	CW750-154
Head/Sill Shear Block	ALU 6063-T6	CW750-155
Wind Load Anchor	A36 Steel	CW750-157
Joint Plug		CW750-375
Glazing Gasket - 70 Durometer	EPDM	CW750-376
Thermal Break - 70 Durometer	EPDM	CW750-377
Perimeter Gasket - 70 Durometer	EPDM	CW750-378
1" Setting Block		CW750-379
#12x1 7/8" PHTFS		FA0004
#12x7/8" FHTFS		FA0005
1/4"x1" Hex Head HWHTFS		FA0006
Joint Sealant - Dow 795		
Perimeter Sealant - Dow 795		
1/4"x2" Sheet Metal Screw		

GL1 = 1" I.G. (1/4" CLEAR H.S. / 1/2" AIRSPACE / 1/4" CLEAR H.S.)  
GL/A = 1" I.G. (1/4" CLEAR F.T. / 1/2" AIRSPACE / 1/4" CLEAR F.T.)  
GLASS SIZE = DAYLIGHT + 1 INCH  
MANUFACTURER - OLDCASTLE GLASS



AS TESTED UNLESS  
OTHERWISE NOTED  
DATE 1-3-2011  
JOB# 0594-1003-10

CKO BY					
BY					
ISSUE DATE					
REVISION					
NO.					

AMERICAN PRODUCTS, INC. (API)  
12157 W LINEBAUGH AVENUE #335  
TAMPA, FL 33626  
CONTACT: KERRI BEALS  
PH (813) 925-0144 /  
WWW.AMERICANPROD.COM

**API**  
AMERICAN PRODUCTS, INC.

Project Name:  
API CW750  
Curtain Wall Test

Sheet Title:  
Elevation and Section

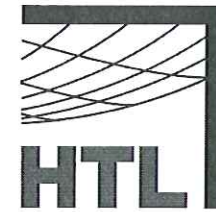
Project No.  
Curtainwall

Drawn:  
pbd

Date:  
1-3-11

Scale:

Sheet No.  
1



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AMERICAN PRODUCTS, INC. (API)  
12157 W LINEBAUGH AVENUE #335  
TAMPA, FL 33626  
CONTACT: KERRI BEALS  
PH (813) 925-0144 /  
WWW.AMERICANPROD.COM



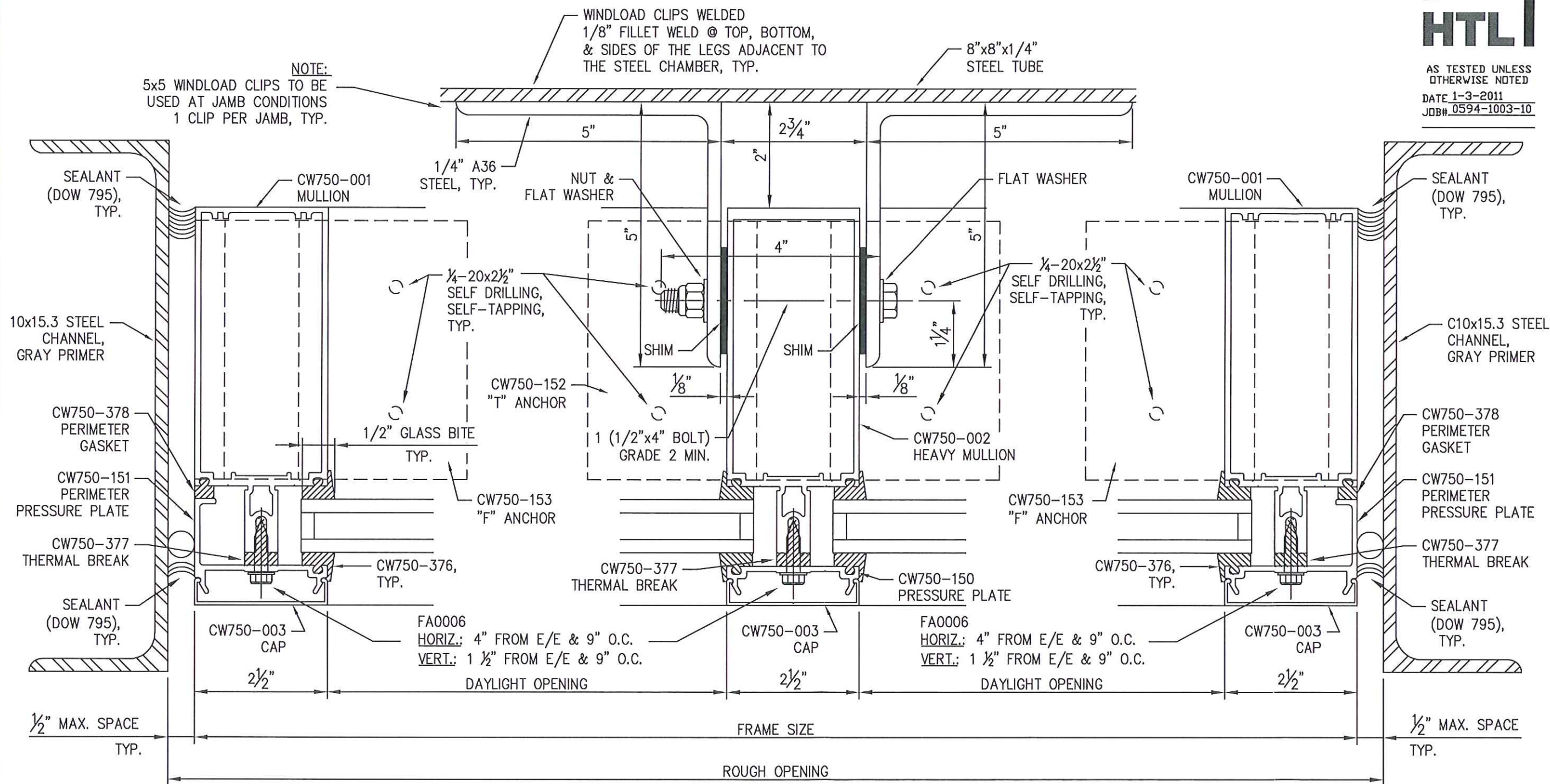
Project Name:	API CW750 Curtain Wall Test
Sheet Title:	Details

Project No.  
Curtainwall

Drawn: pbd  
Date: 1-3-11

Scale:

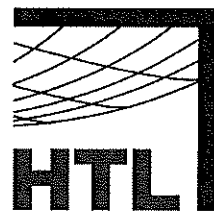
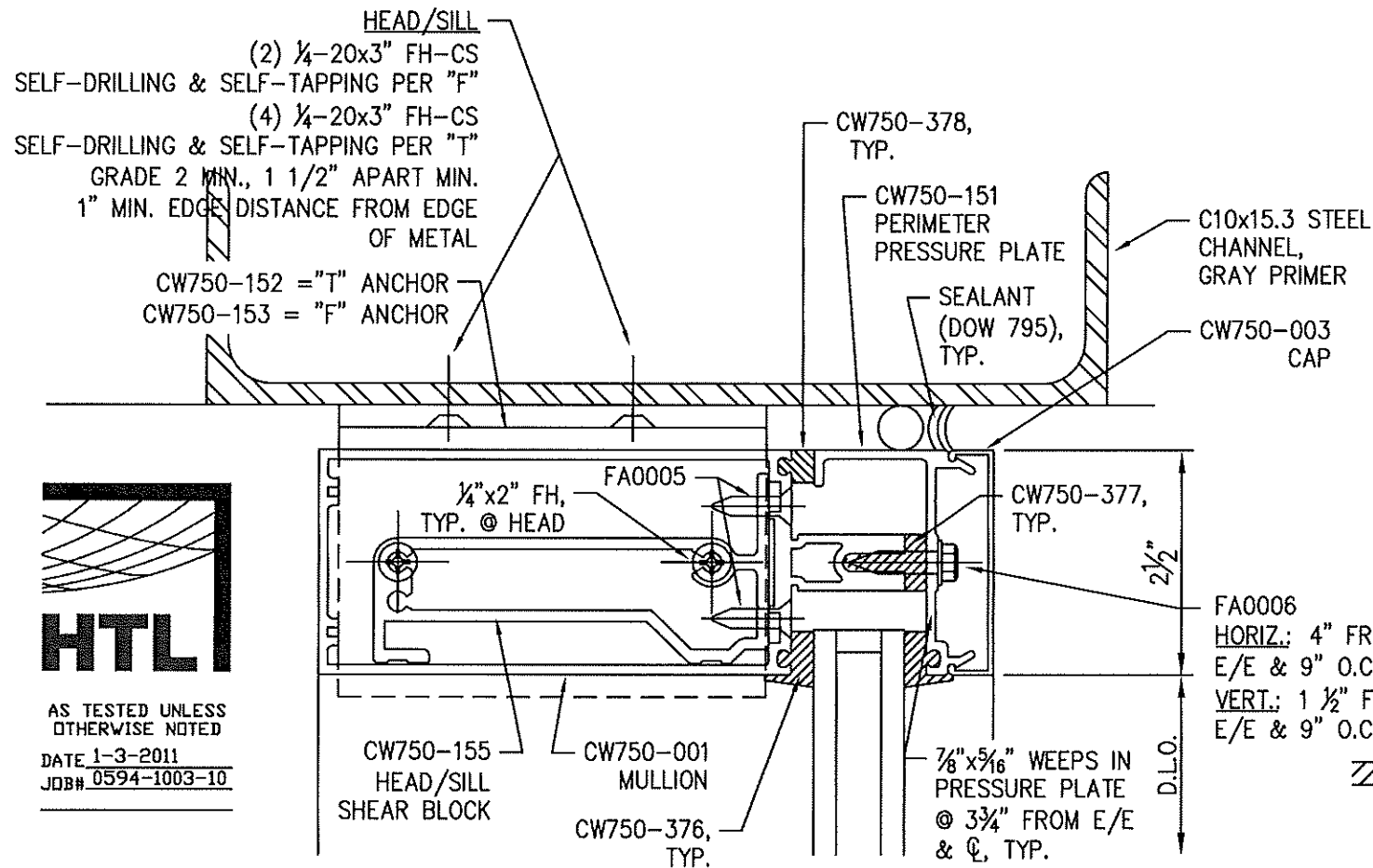
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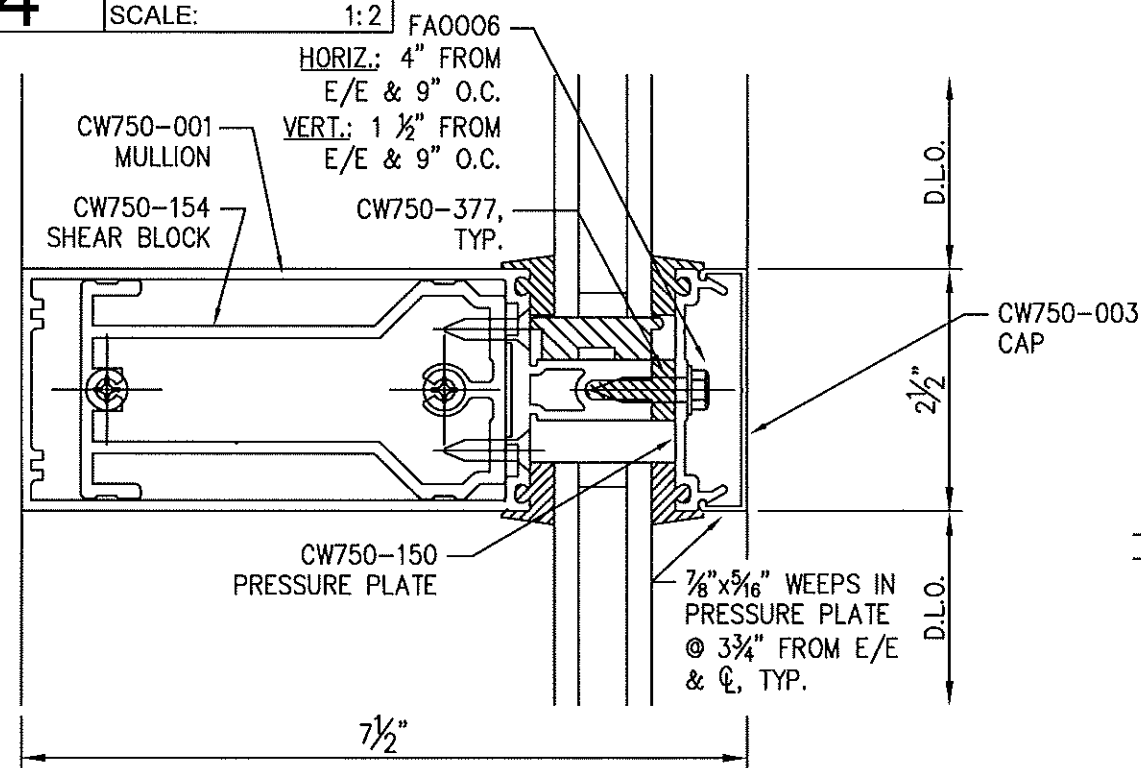
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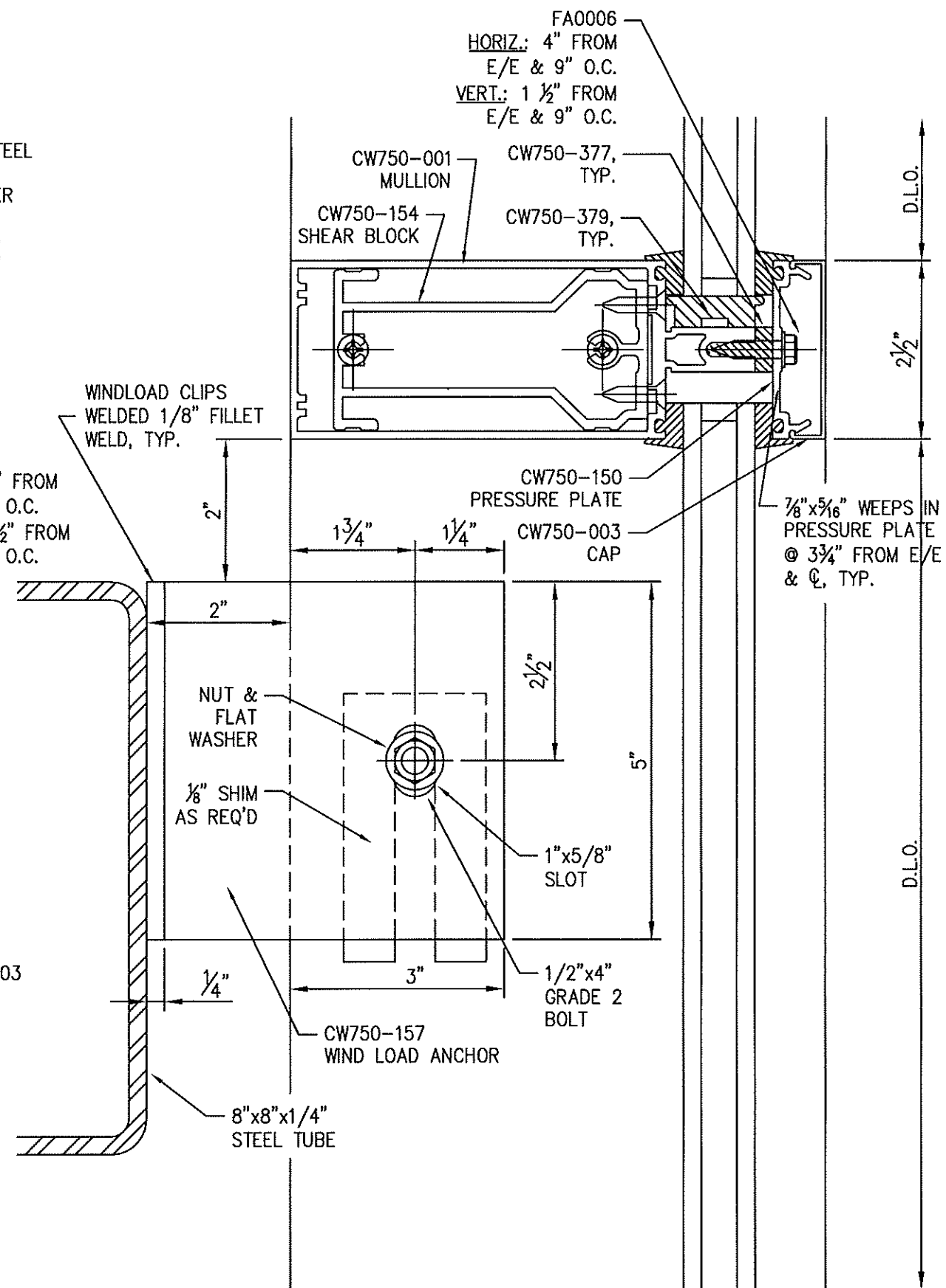


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Detail	ARCH. REF.
4	SCALE: 1:2



Detail	ARCH. REF.
5	SCALE: 1:2



Detail	ARCH. REF.
6	SCALE: 1:2

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API CW750  
Curtain Wall Test

Sheet Title:  
Details

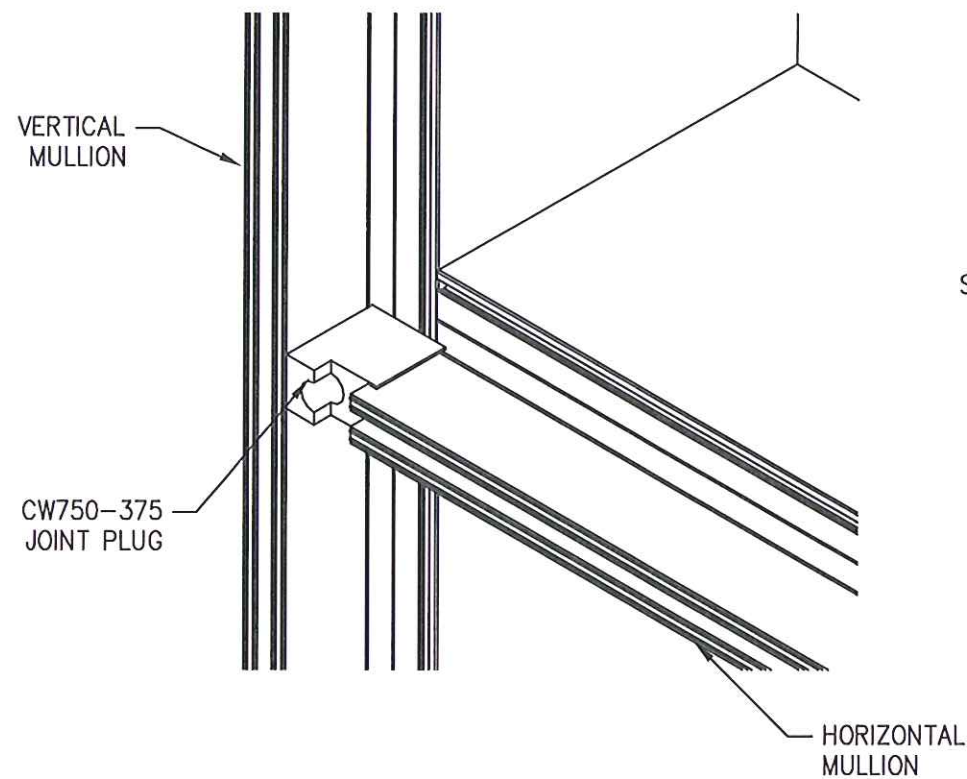
Project No.  
Curtainwall

Drawn:  
pbd

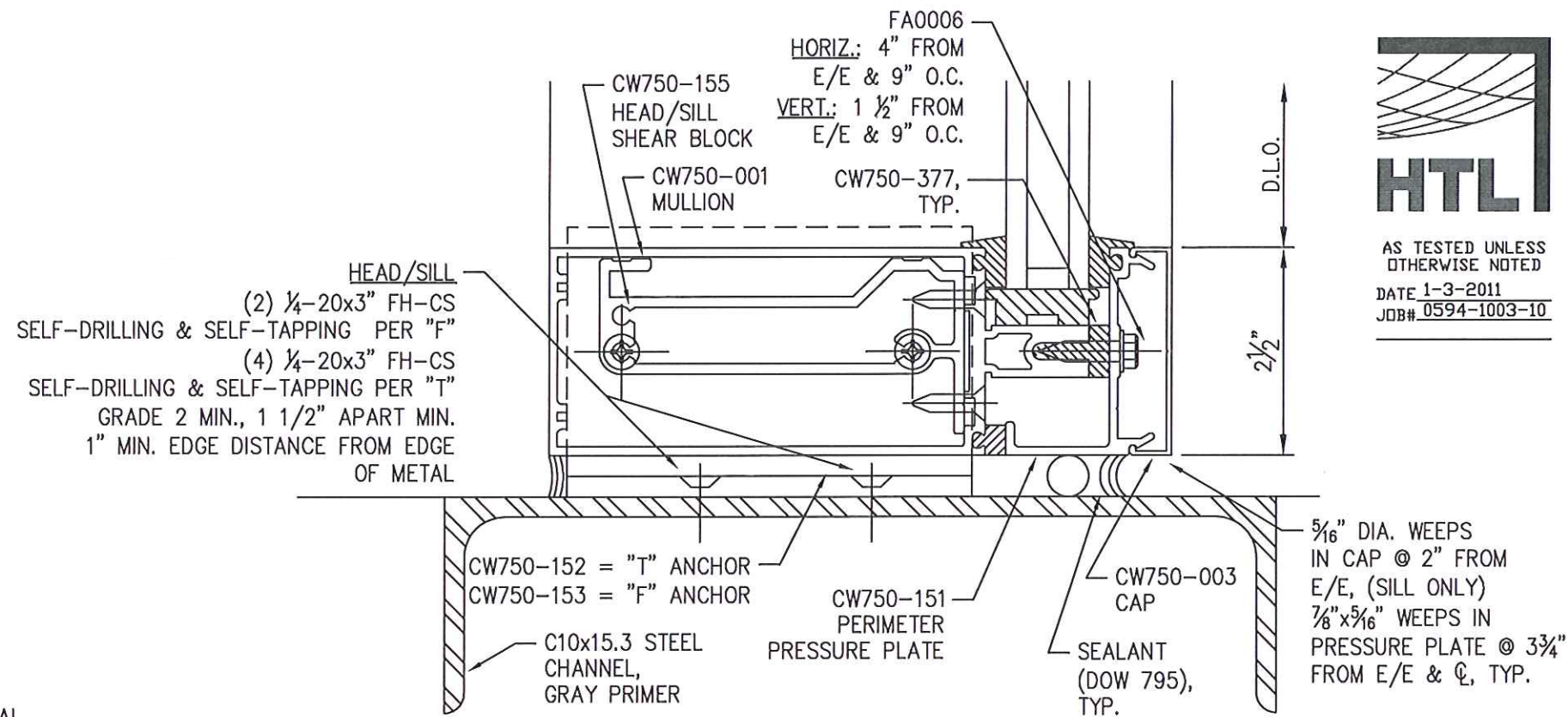
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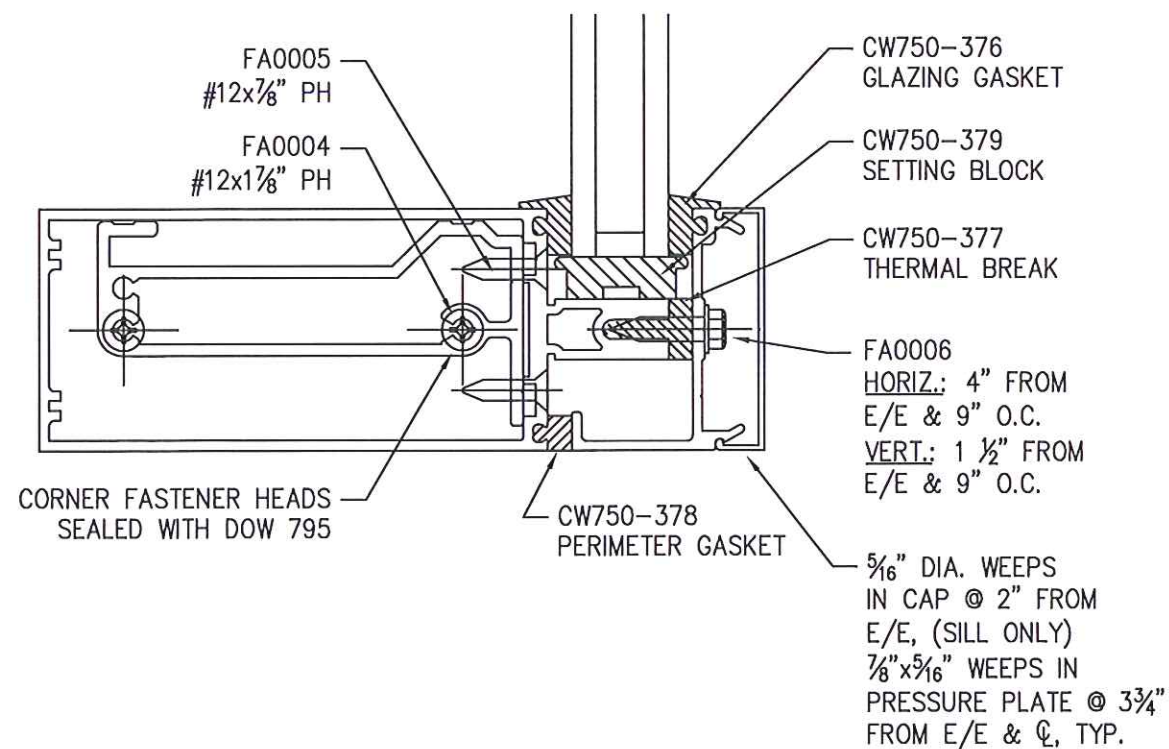
Sheet No.  
3



## Typical Horizontal / Vertical Intersection



Detail	ARCH. REF.	SCALE:
7		1:2



## Typical Assembly Detail

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API CW750  
Curtain Wall Test

Sheet Title:  
Details

Project No.  
Curtainwall

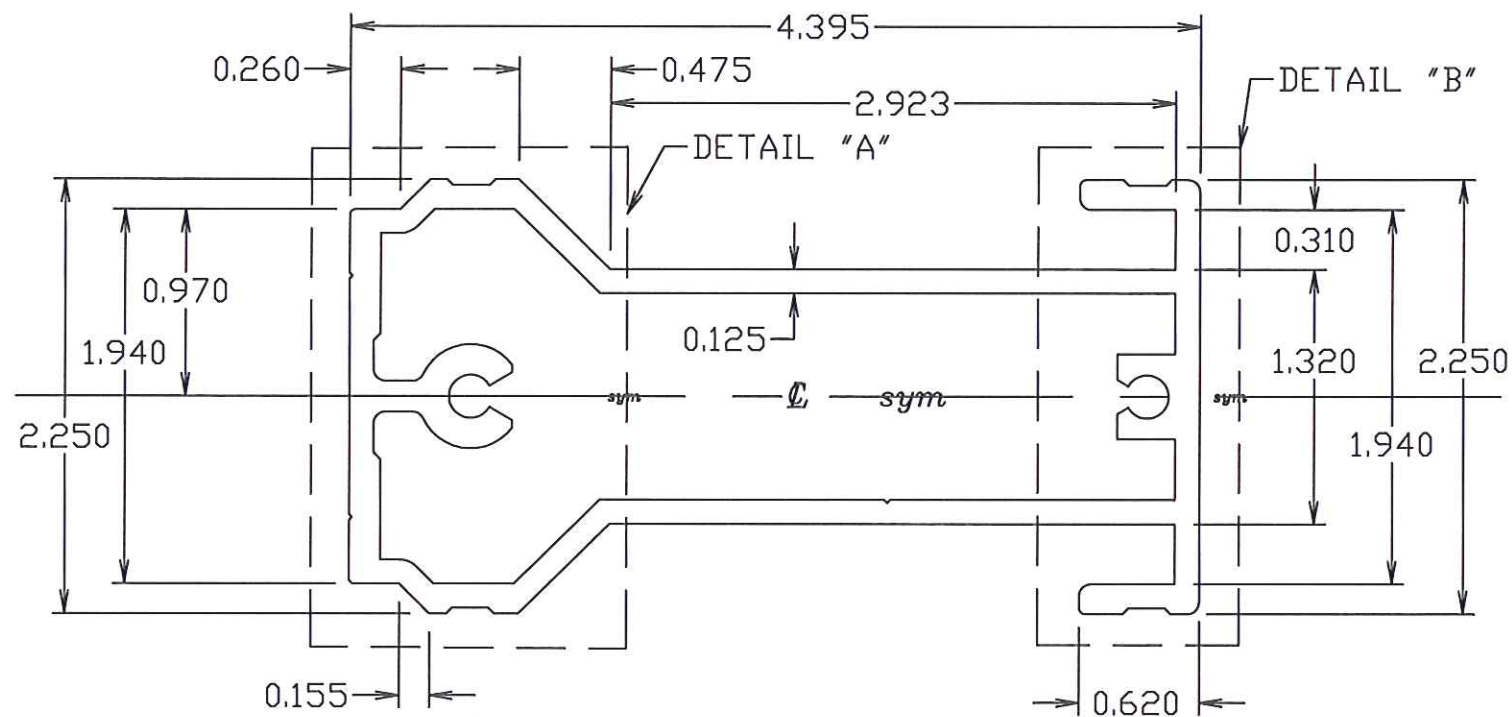
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Date:  
1-3-11

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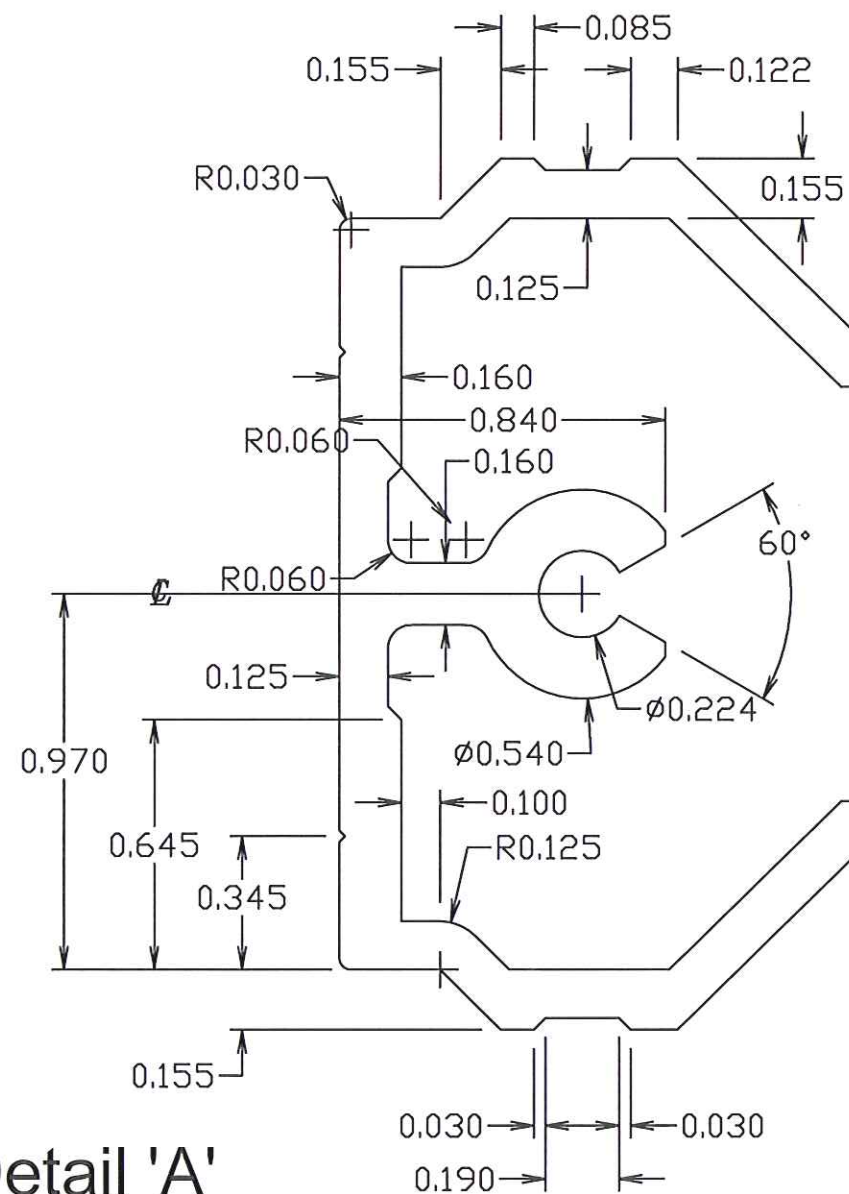
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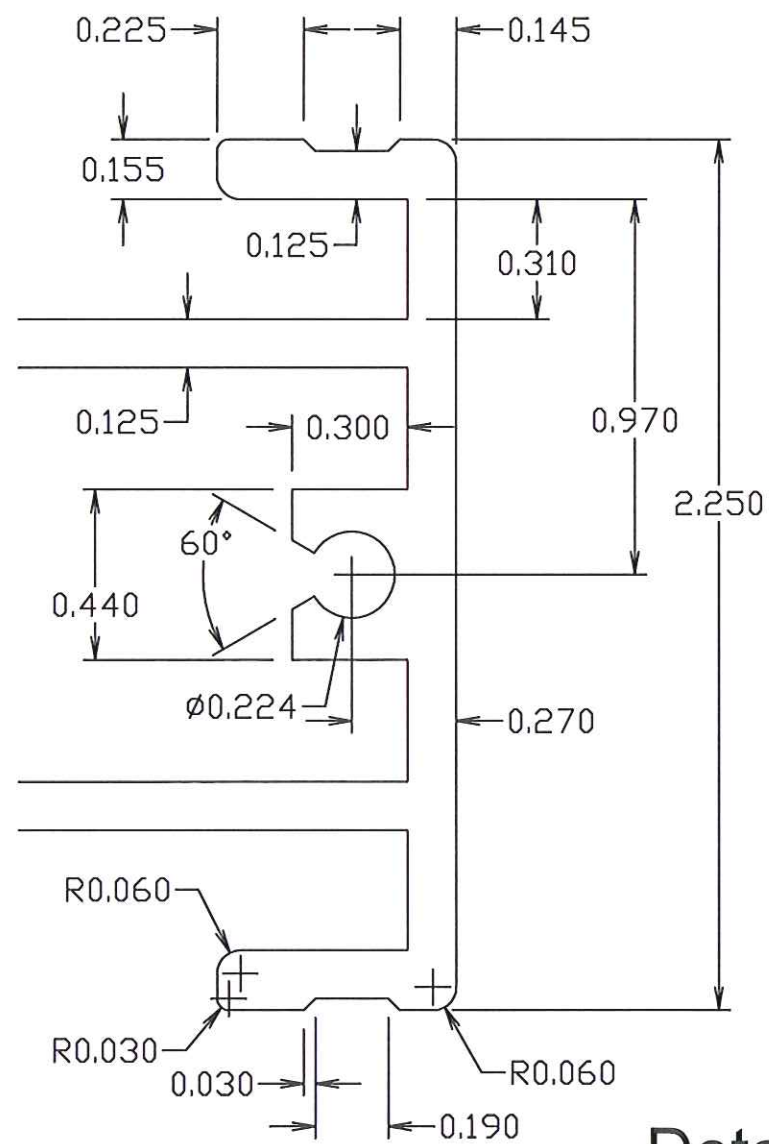


**CW750-154**

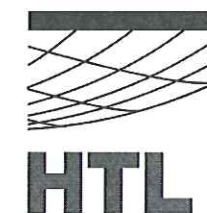
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**Detail 'A'**



**Detail 'B'**



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Project Name:  
**API CW750  
Curtain Wall Test**

Sheet Title:  
**Profiles - 1**

Project No.  
Curtainwall


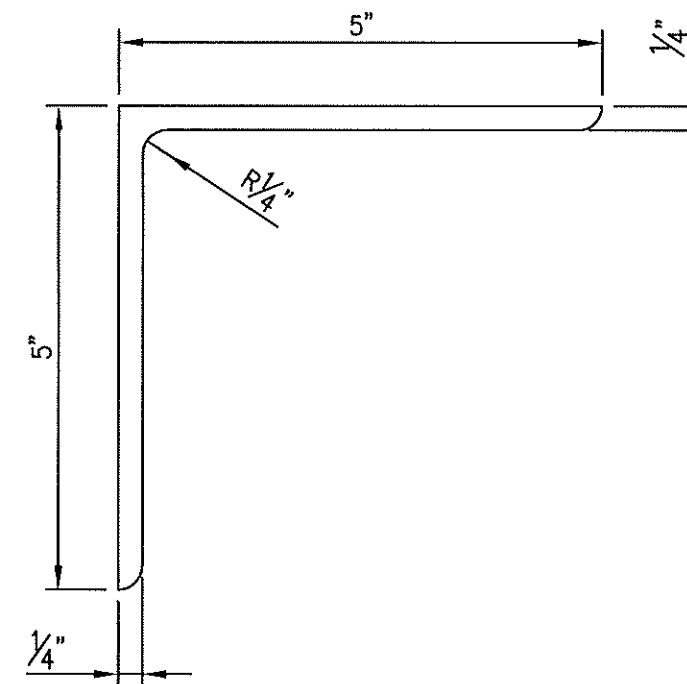
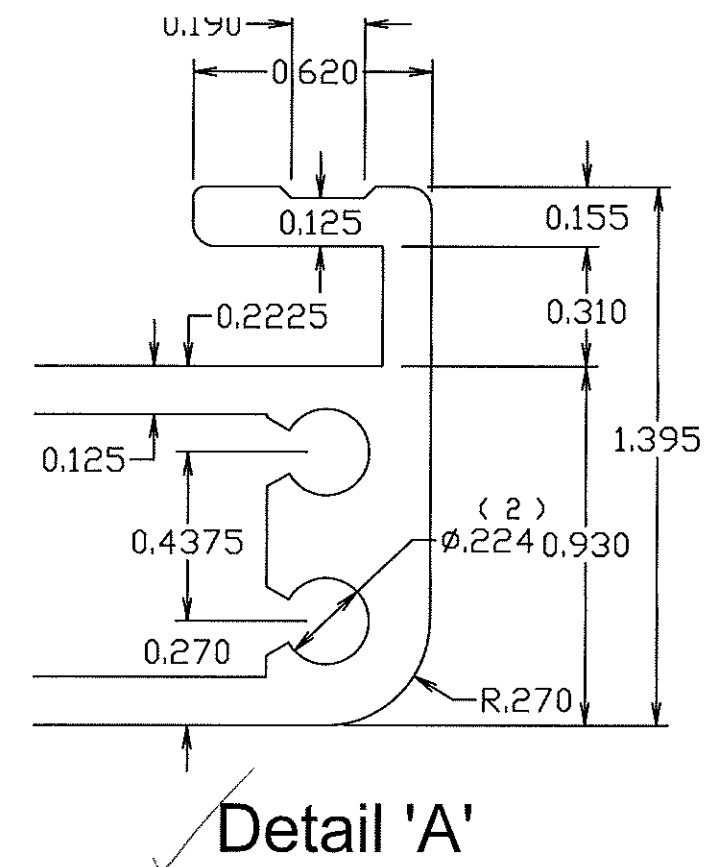
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Date:  
1-3-11

Scale:

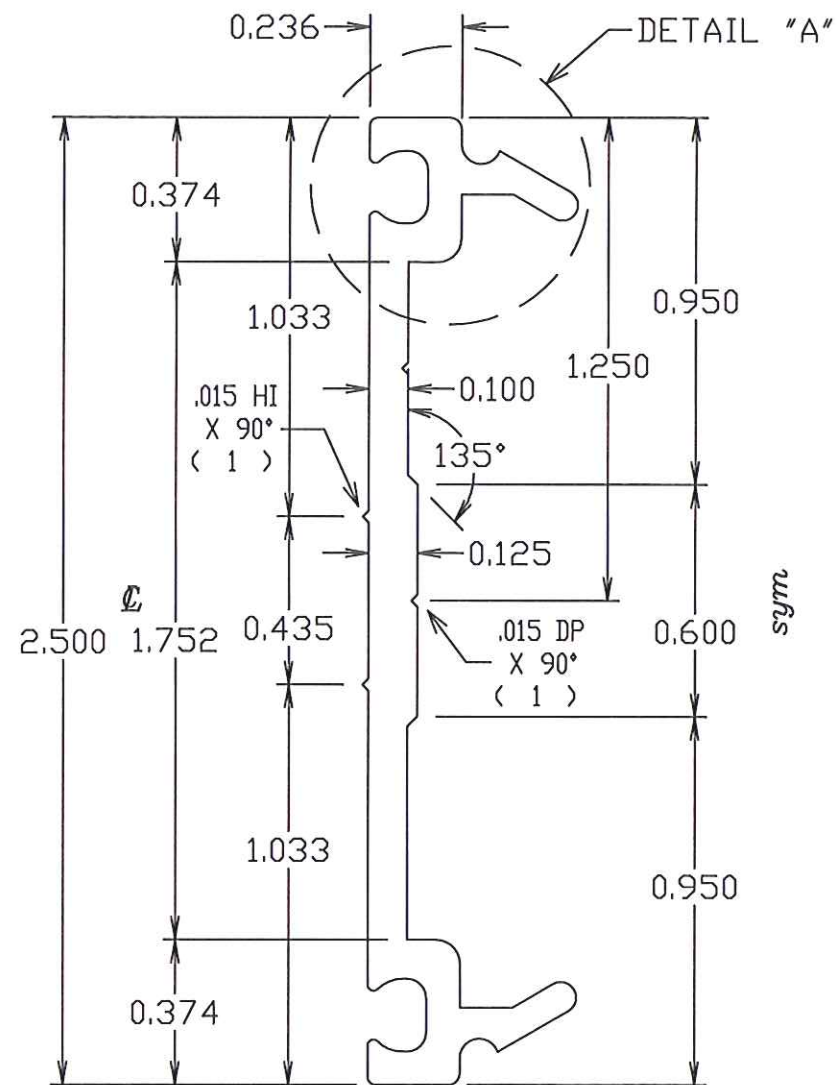
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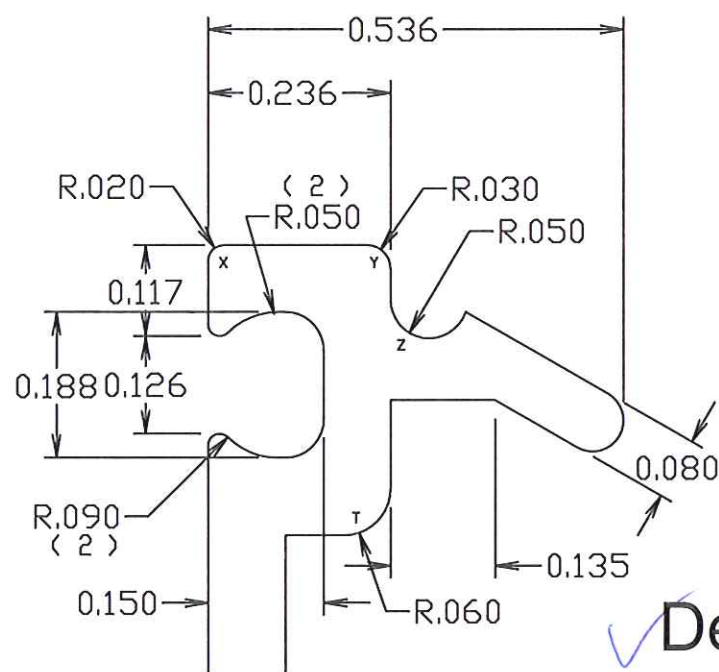


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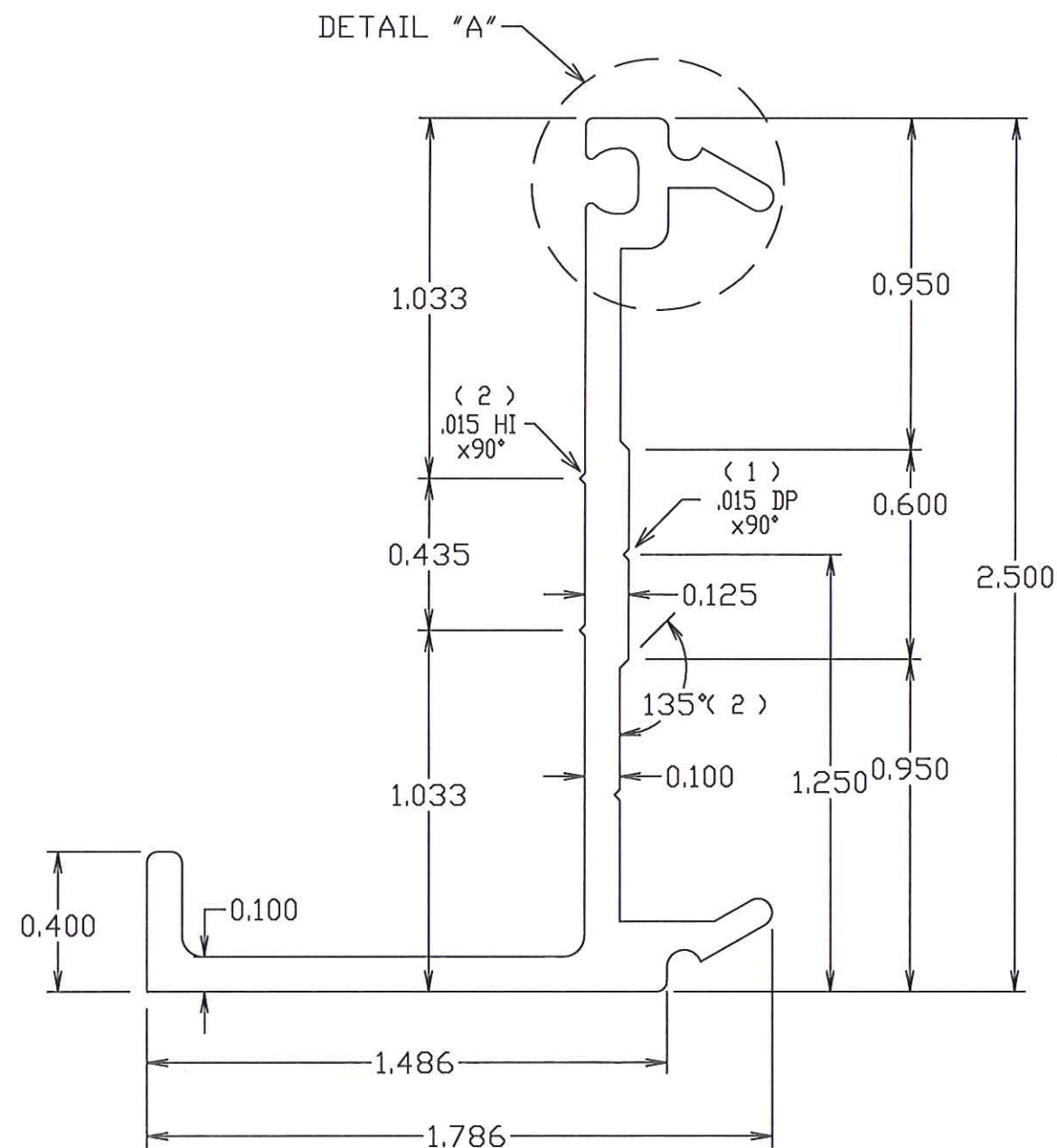
<div> <div> <div>Project Name:</div> <div>API CW750 Curtain Wall Test</div> </div> <div> <div>Sheet Title:</div> <div>Profiles - 2</div> </div> </div>	<div>Project No.</div> <div>Curtainwall</div>		<div>Drawn:</div> <div>pbd</div>		<div>Date:</div> <div>1-3-11</div>		<div>Scale:</div>		<div>Sheet No.</div> <div>6</div>	
	<div>Project Name:</div> <div>API CW750 Curtain Wall Test</div>		<div>Project No.</div> <div>Curtainwall</div>		<div>Drawn:</div> <div>pbd</div>		<div>Date:</div> <div>1-3-11</div>		<div>Scale:</div>	
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✓ CW750-150



✓ Detail 'A'

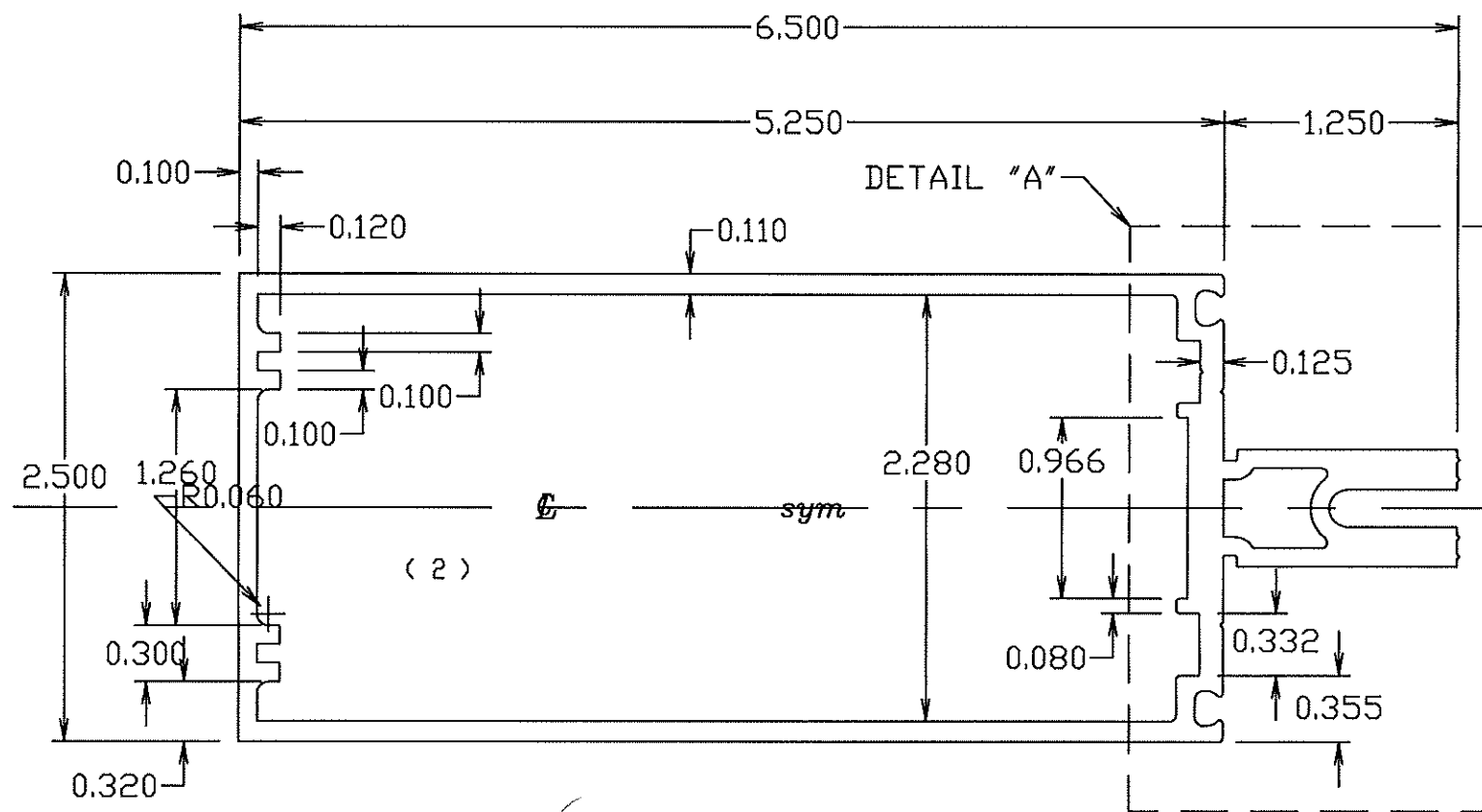


✓ CW750-151

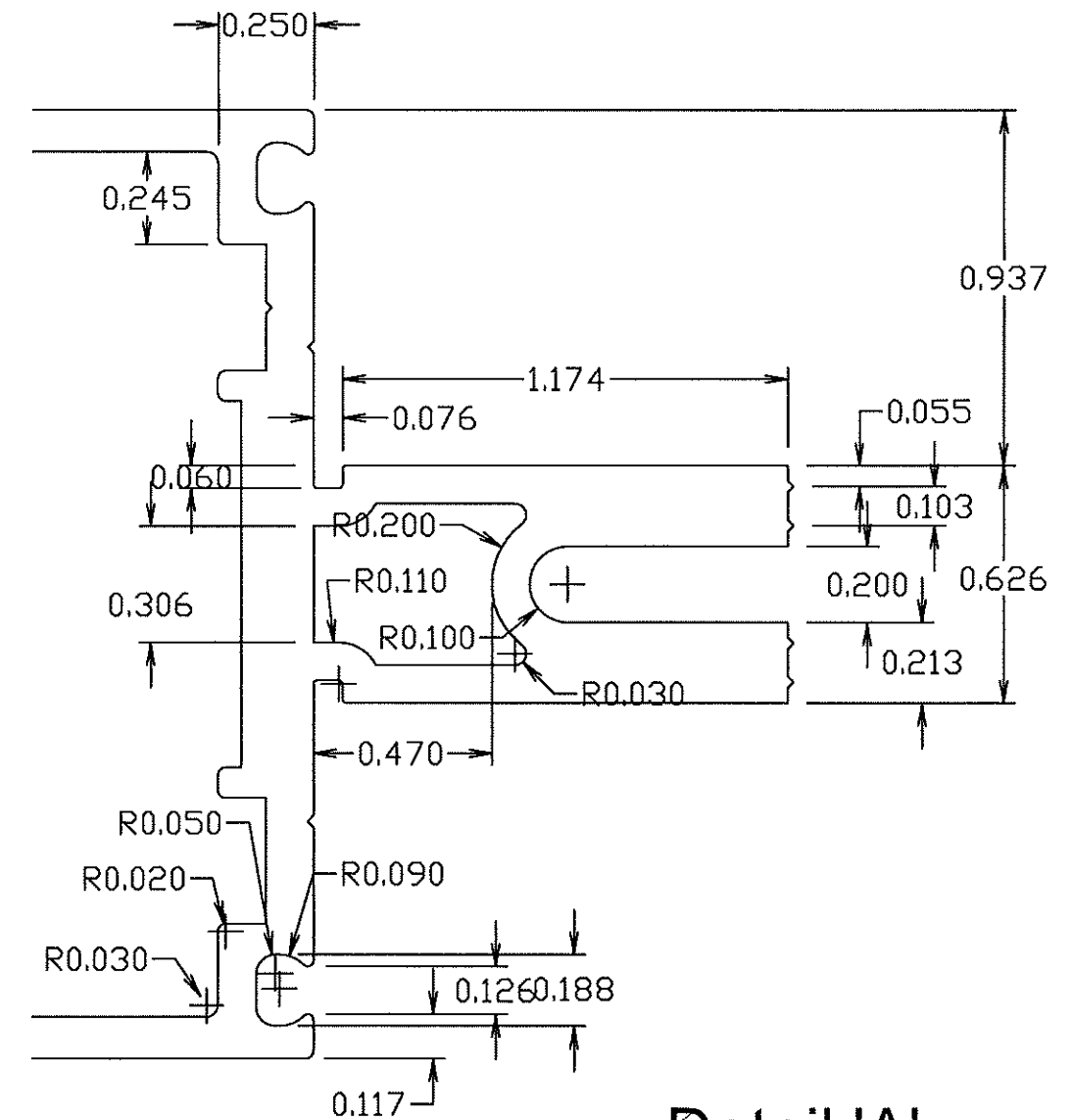


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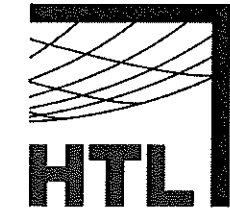
CKD BY					
ISSUE DATE					
REVISION					
NO.					
<div>AMERICAN PRODUCTS, INC. (API) 12157 W LINEBAUGH AVENUE #335 TAMPA, FL 33626 CONTACT: KERRI BEALS PH (813) 925-0144 / WWW.AMERICANPROD.COM</div> <div><div>API</div><div>AMERICAN PRODUCTS, INC.</div></div>					
Project Name: API CW750 Curtain Wall Test			Sheet Title: Profiles - 3		
Project No. Curtainwall					
Drawn: pbd		Date: 1-3-11			
Scale:					
Sheet No. <div>7</div>					



✓ CW750-001



✓ Detail 'A'



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Project Name:  
API CW750  
Curtain Wall Test

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Profiles - 4

Project No.  
Curtainwall

Drawn:  
pbd

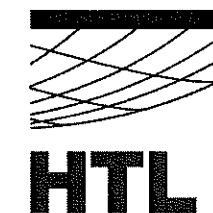
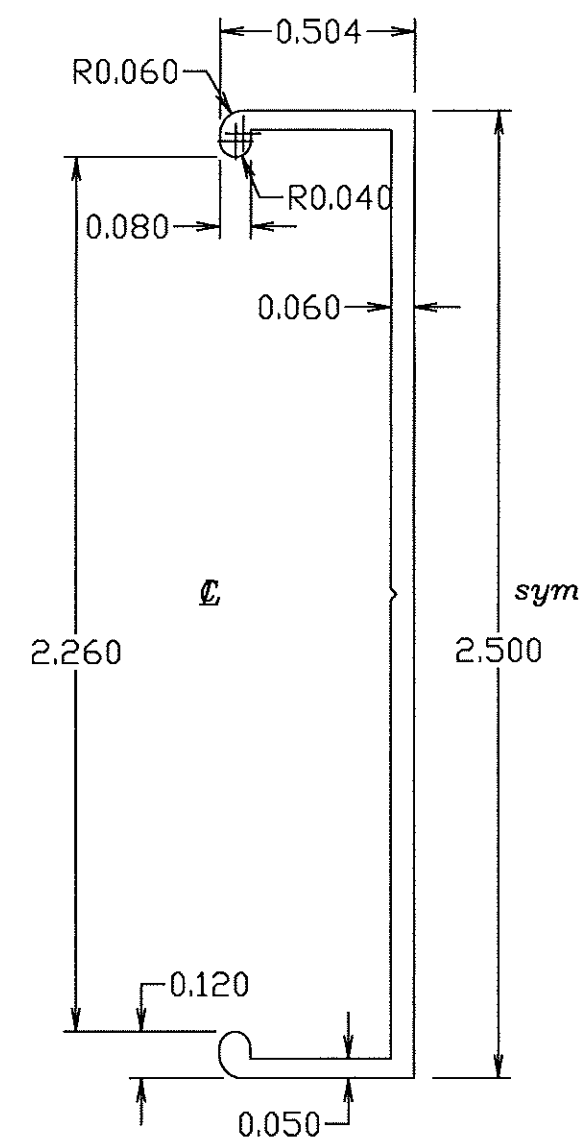
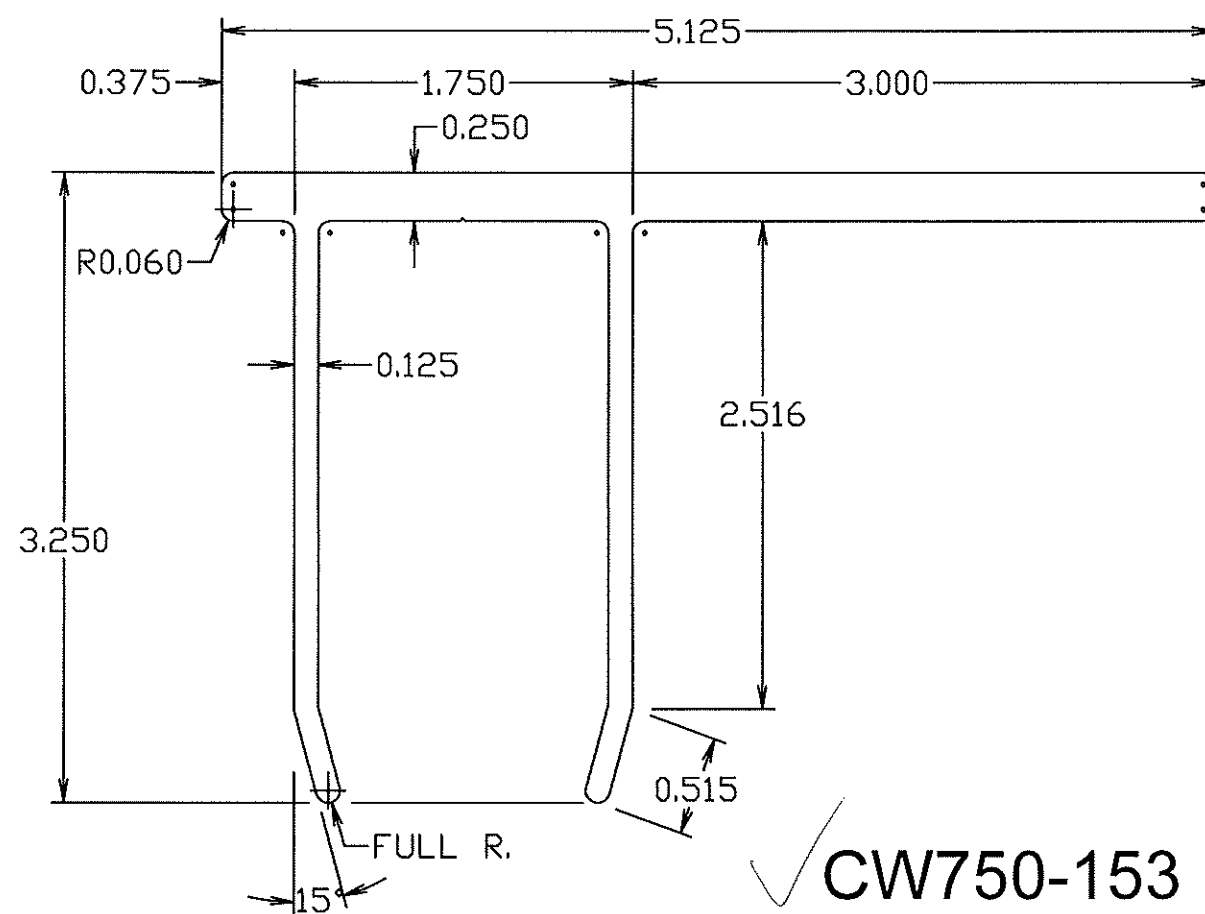
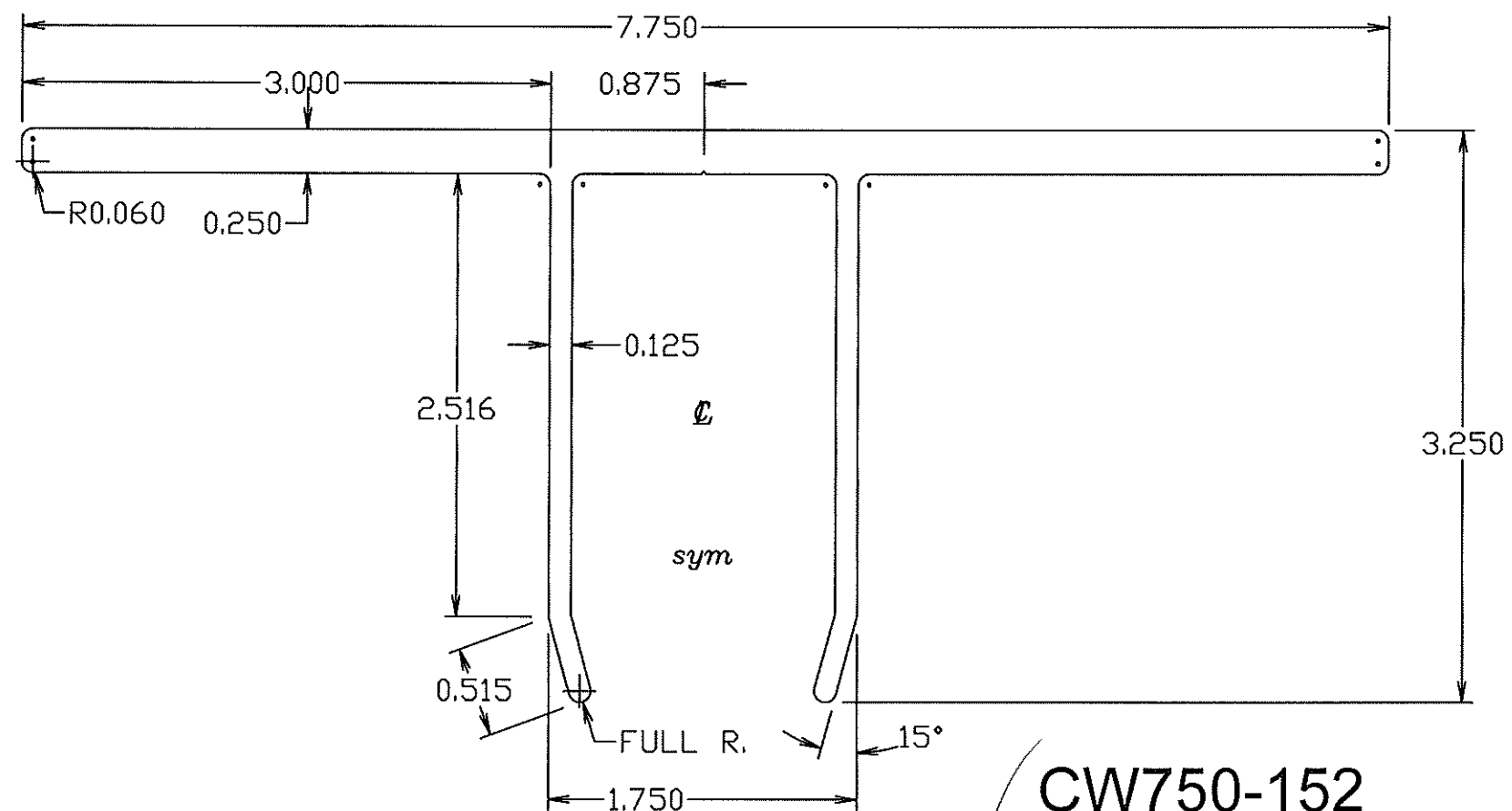
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1-3-11

Scale:

Sheet No.

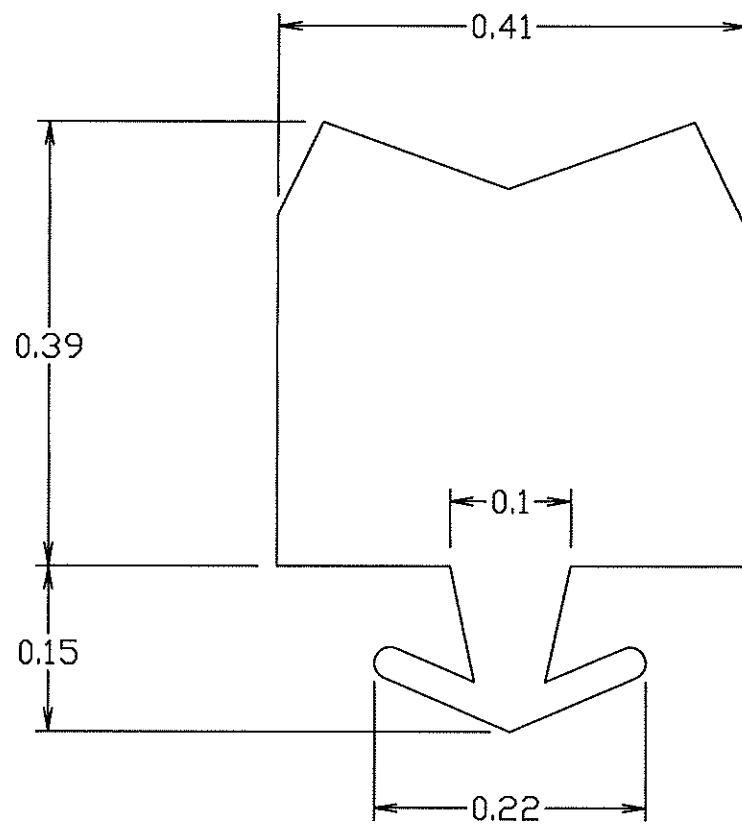
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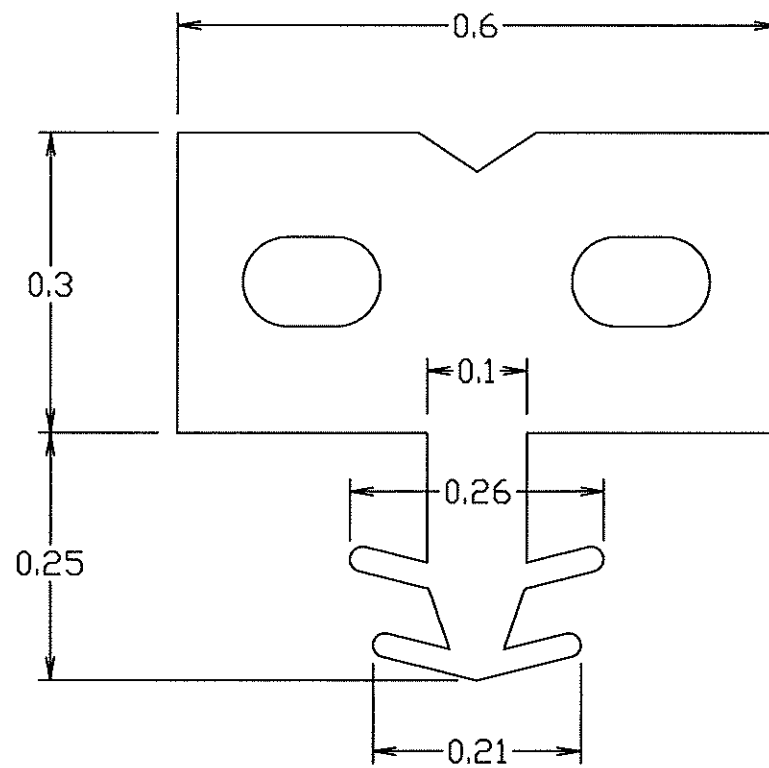


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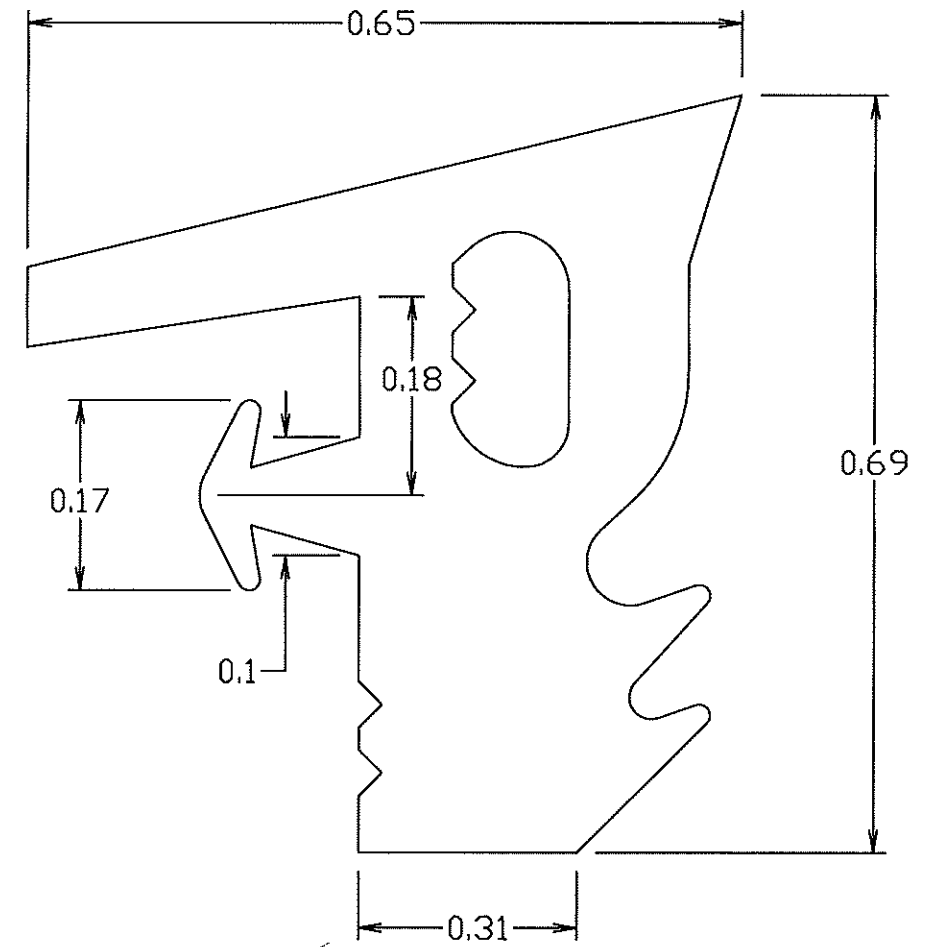
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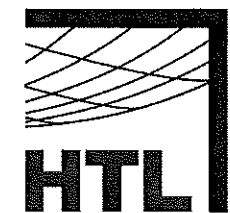
✓ CW750-378



✓ CW750-377



✓ CW750-376



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API CW750  
Curtain Wall Test

Sheet Title:  
Profiles - 7

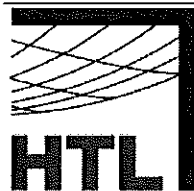
Project No.  
Curtainwall

Drawn:  
pbd

Date:  
1-3-11

Scale:

Sheet No.  
✓ 11

**CORPORATE HEADQUARTERS**

6655 Garden Road  
Riviera Beach, FL 33404  
P: 888.477.2454  
F: 561.881.0075  
HTLTEST.COM

Test Report #: 0594-1003-10  
Report Expiration: 1/6/2016  
Specimen #: 1

### Revision Log

Rev. #	Date	Page(s)	Section #	Revision(s)
0	1/6/2011	N/A	N/A	Original report issued.