



MIAMI-DADE COUNTY PERFORMANCE TEST REPORT

Report No.: E8391.03-301-18

Rendered to:

FLEETWOOD WINDOWS AND DOORS
Corona, California

PRODUCT TYPE: Sliding Door
SERIES/MODEL: 3070-HI

This report contains in its entirety:

Cover Page: 1 page
Report Body: 15 pages
Sketches: 2 pages
Drawings: 9 pages

Test Start Date: 07/01/15
Test End Date: 08/19/15
Report Date: 12/18/15
Revision 4 Date: 04/01/16
Test Record Retention End Date: 08/19/25
Miami-Dade County Notification No.: ATI CA15003

1.0 Client Identification:

- 1.1 Report Issued To:** Fleetwood Windows & Doors
 1 Fleetwood Way
 Corona, California 92879
- 1.2 Contact Person:** Joe Zammit

2.0 Laboratory Identification:

- 2.1 Test Laboratory:** Architectural Testing, Inc.,
 an Intertek company ("Intertek-ATI")
 2524 East Jensen Avenue
 Fresno, California 93706
- 2.2 Phone Number:** (559) 233-8705

3.0 Project Summary:

- 3.1 Introduction:** Intertek-ATI was contracted by Fleetwood Windows and Doors to conduct TAS 201, TAS 202, and TAS 203 testing in accordance with Florida Building Code for High Velocity Hurricane Zone and Miami-Dade County requirements. The four specimen(s) tested met the performance requirements set forth in the protocols. The results are summarized in Table 1.

Table 1: Summary of Test Results

Specimen #	Test Protocol	Design Pressure
1	TAS 202	+50 / -55 psf
2	TAS 201 / 203 (Large Missile)	+55 / -60 psf
3	TAS 201 / 203 (Large Missile)	+55 / -60 psf
4	TAS 201 / 203 (Large Missile)	+55 / -60 psf

- 3.2 Product Type:** Sliding Door
- 3.3 Series/Model:** 3070-HI
- 3.4 Miami-Dade County Notification No.:** ATI CA0003
- 3.5 Laboratory Certification No.:** 12-0808.05
- 3.6 Test Date(s):** 07/01/15 – 08/19/15
- 3.7 Test Record Retention End Date:** 08/19/25
- 3.8 Test Location:** Intertek-ATI test facility in Fresno, California.

3.0 Project Summary: (Continued)

3.9 Test Specimen Source: The test specimen(s) were provided by the client. Representative samples of the test specimen(s) will be retained by Intertek-ATI for a minimum of ten years from the test completion date.

3.10 Drawing Reference: The test specimen drawings have been reviewed by Intertek-ATI and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek-ATI per the drawings located in Appendix B. Any deviations are documented herein and on the drawings.

3.11 List of Official Observers:

<u>Name</u>	<u>Company</u>
Nathan Baker	Fleetwood
Dennis Janzen	Intertek-ATI
Tyler Westerling	Intertek-ATI

4.0 Test Protocol(s):

TAS 201-94, *Impact Test Procedures*

TAS 202-94, *Criteria for Testing Impact & Non Impact Resistant Building Envelope Components Using Uniform Static Air Pressure*

TAS 203-94, *Criteria for Testing Products Subject to Cyclic Wind Pressure Loading*

5.0 Test Specimen Description:

5.1 Product Sizes: Table 2 provides product sizes for the overall test specimen(s) and operable components.

5.2 Product Sizes:

Overall Area: 22.8 m ² (243 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
MAX Overall size	6,096	240	3,658	144
MAX Panel size	1,588	62-1/16	3,607	142

5.0 Test Specimen Description: (Continued)

The following descriptions apply to all specimens.

5.3 Frame Construction:

Frame Member	Material	Description
Sill	Aluminum	Two piece sill held in place with two rows of #8 Phillips head screws spaced 36" on center in each track.
Sill pan	Aluminum	With a 1.93" tall interior leg.
Sill filler	Aluminum	Snapped in place where panels do not slide.
Jamb	Aluminum	With snapped in jamb filler where panel is not engaged.
Head	Aluminum	With snapped in head filler where panel is not engaged.

	Joinery Type	Detail
All corners	Butt	Sealed with silicone and attached with three #10 x 3/4" Phillips pan head sheet metal screws.

5.4 Panel Construction:

Panel Member	Material	Description
All	Aluminum	See drawings for details.

	Joinery Type	Detail
All corners	Butt	Sealed with silicone. Top corners fastened with one #10 x 2" Phillips head screw each. Bottom corners fastened with one #10 x 2". Two 1/4-20 x 1" Phillips head screws were fastened into each roller.

5.0 Test Specimen Description: (Continued)

5.5 Weatherstripping:

Description	Quantity	Location
0.230 polypile with center fin	4	In sill contracting interior and exterior of each panel leg
Q-lon foam seal	2	Contacting interior and exterior of subsill pan from sill vertical face
0.230 polypile with center fin	2	In head contracting interior and exterior of panel face
0.290 Polypile with center fin	1	In each pocket interlock extrusion
0.230 polypile with center fin	2	In interior and exterior meeting stile locking extrusion.
0.290 polypile with center fin	1	In each interlock extrusion
Q-lon foam seal	1	In interior and exterior of jamb extrusion
Panel corner air barrier	1	At each exposed panel bottom and top corner.

5.6 Glazing: *No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made.*

Glass Type	Glazing	Glazing Method
Monolithic	6mm clear/0.090 SGP/6mm clear	Channel glazed into frame. Dry glazed at all top and bottom rails and interlocks. Wet glazed at locking vertical stiles only.

Location	Quantity	Daylight Opening		Glass Bite
		millimeters	inches	
All Lights	4	1435 x 3454	56-1/2 x 136	5/8

5.7 Drainage:

Drainage Method	Size	Quantity	Location
Saw cut across sill across all tracks	1" wide by 3/16" deep	6	6" from each end, 60" spacing.
Bottom drain or side drain	1" NPT	6	8" from each and 60" on center drained into a common 2" diameter manifold with check valve.

5.0 Test Specimen Description: (Continued)

5.8 Hardware:

Description	Quantity	Location
Rollers, Tandem	2 tandem rollers each panel	Bottom panel rail.
Archetype Narrow lock with strike plate	1	Locking meeting panel.

5.9 Reinforcement:

Drawing Number	Location	Material
37	All small interlock hallows	Aluminum
38	All small interlock hallows	Aluminum

5.10 Screen Construction: No screen was utilized.

6.0 Installation:

The specimen was installed into a Pine wood buck. The rough opening allowed for a 1/4" shim space. The exterior perimeter of the window was sealed with sealant. See drawing on sheet 6 of 9 for installation details.

7.0 Test Results: The temperature during TAS 202 testing was 65°F. Results are tabulated as follows:

7.1 Protocol TAS 202-94, Static Air Pressure

Table #1 provides the results for the air infiltration test.

Table #1: Test Specimen #1 TAS 202, Air Infiltration Test Results

Test Pressure	Results
Air Infiltration at 1.57 psf (25 mph)	0.20 cfm/ft ²
Air Exfiltration at 1.57 psf (25 mph)	0.22 cfm/ft ²

Table #2 provides the results for positive and negative uniform static load test at a duration of 30 seconds.

Table #2: Test Specimen #1 TAS 202, Preload and Design Load Test Results

Load (psf)	Indicator Location	Deflection (in.)		Permanent Set (in.)	
		Measured	Allowed	Measured	Allowed
+30.00 >50% of Test Pressure	Meeting Stile	0.69	N/A	0.06	N/A
	Center Interlock	0.68	N/A	0.00	N/A
+50.0 Design Pressure	Meeting Stile	1.16	N/A	0.02	N/A
	Center Interlock	1.09	N/A	0.00	N/A
-30.0 >50% of Test Pressure	Meeting Stile	0.68	N/A	0.01	N/A
	Center Interlock	0.69	N/A	0.01	N/A
-55.0 Design Pressure	Meeting Stile	1.48	N/A	0.02	N/A
	Center Interlock	1.44	N/A	0.02	N/A

7.0 Test Results: (Continued)

7.2 Protocol TAS 202-94, Static Air Pressure

Table #3 provides the results for the water penetration test.

Table #3: Test Specimen #1 TAS 202, Water Penetration Test Results

Title of Test	Pressure	Results
Water Penetration >15% of Positive Design Pressure	9.19 psf	Pass

Table #4 provides the results for the structural overload test.

Table #4: Test Specimen #1 TAS 202, Structural Overload Test Results

Load (psf)	Indicator Location	Deflection (in.)		Permanent Set (in.)	
		Measured	Allowed	Measured	Allowed
+75.0 Test Pressure	Meeting Stile	2.44	N/A	0.02	0.58
	Center Interlock	1.44	N/A	0.04	0.58
-82.5 Test Pressure	Meeting Stile	2.16	N/A	0.03	0.58
	Center Interlock	2.06	N/A	0.09	0.58

Table #5 provides the results for the forced entry resistance test.

Table #5: Test Specimen #1 TAS 202, Forced Entry Test Results

Title of Test	Results	Allowed
Forced Entry Resistance in accordance with F842	Pass	No Entry

Note: Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

Conclusion: Intertek-ATI observed no signs of failure in any area of the test specimen during the TAS 202 testing; as such, the test specimen satisfies the requirements of TAS 202.

7.0 Test Results: The temperature during TAS 201 testing was 70°F. Results are tabulated as follows:

7.3 Protocol TAS 201-94, Large Impact Procedures

Conditioning Temperature: 18°C (65°F)
Missile Weight: 4080 g (9.0 lbs)
Missile Length: 2.4 m (8'0")
Muzzle Distance from Test Specimen: 5.2 m (17' 0")

Test Unit #1: Orientation within ±5° of horizontal

Impact #1: Missile Velocity: 15.1 m/s (49.6fps)	
Impact Area:	Center of meeting stile
Observations:	Missile hit target area
Results:	Pass

Impact #2: Missile Velocity: 15.2 m/s (50.0 fps)	
Impact Area:	Center of Pocket Panel
Observations:	Missile hit target area
Results:	Pass

Impact #3: Missile Velocity: 15.1 m/s (49.6fps)	
Impact Area:	Bottom right hand corner of pocket panel
Observations:	Missile hit target area
Results:	Pass

Impact #4: Missile Velocity: 15.2 m/s (49.7 fps)	
Impact Area:	Center of Meeting panel
Observations:	Missile hit target area
Results:	Pass

7.0 Test Results: (Continued) The temperature during TAS 201 testing was 70°F. Results are tabulated as follows:

7.4 Protocol TAS 201-94, Large Impact Procedures

Conditioning Temperature: 18°C (65°F)
Missile Weight: 4080 g (9.0 lbs)
Missile Length: 2.4 m (8'0")
Muzzle Distance from Test Specimen: 5.2 m (17' 0")

Test Unit #2: Orientation within ±5° of horizontal

Impact #1: Missile Velocity: 15.0 m/s (49.3 fps)	
Impact Area:	Center of meeting stile
Observations:	Missile hit target area
Results:	Pass

Impact #2: Missile Velocity: 15.1 m/s (49.6 fps)	
Impact Area:	Bottom left of Pocket Panel
Observations:	Missile hit target area
Results:	Pass

Impact #3: Missile Velocity: 15.3 m/s (50.1 fps)	
Impact Area:	Center of pocket panel
Observations:	Missile hit target area
Results:	Pass

Impact #4: Missile Velocity: 15.3 m/s (50.2 fps)	
Impact Area:	Top right corner of meeting panel
Observations:	Missile hit target area
Results:	Pass

Impact #5: Missile Velocity: 15.2 m/s (49.8fps)	
Impact Area:	Center of meeting panel
Observations:	Missile hit target area
Results:	Pass

7.0 Test Results: (Continued) The temperature during TAS 201 testing was 70°F. Results are tabulated as follows:

7.5 Protocol TAS 201-94, Large Impact Procedures

Conditioning Temperature: 18°C (65°F)
Missile Weight: 4080 g (9.0 lbs)
Missile Length: 2.4 m (8'0")
Muzzle Distance from Test Specimen: 5.2 m (17' 0")

Test Unit #3: Orientation within ±5° of horizontal

Impact #1: Missile Velocity: 15.2 m/s (49.9fps)	
Impact Area:	Center of interlock
Observations:	Missile hit target area
Results:	Pass
Deflection:	

Impact #2: Missile Velocity: 15.3 m/s (50.2 fps)	
Impact Area:	Top left corner of jamb panel
Observations:	Missile hit target area
Results:	Pass

Impact #3: Missile Velocity: 15.4 m/s (50.4 fps)	
Impact Area:	Center of jamb panel
Observations:	Missile hit target area
Results:	Pass

Impact #4: Missile Velocity: 15.1 m/s (49.5 fps)	
Impact Area:	Center of Meeting panel
Observations:	Missile hit target area
Results:	Pass

Impact #5: Missile Velocity: 15.2 m/s (49.7fps)	
Impact Area:	bottom right corner of meeting panel
Observations:	Missile hit target area
Results:	Pass

Note: See Intertek-ATI Sketch #1 for impact locations.

7.0 Test Results: The temperature during TAS 203 testing was 65°F. Results are tabulated as follows:

7.6 Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #1

Design Pressure: a +2640/-2880 Pa (+55.14/-60.15psf)

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Observations
11 to 27.5	3500	2.8	
0 to 33	300	4.2	
27.5 to 44	600	2.3	
16.5 to 55	100	4.0	

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Observations
18 to 60	50	4.7	
30 to 48	1050	2.1	
0 to 36	50	4.2	
12 to 30	3350	2.3	

Result: Pass

7.0 Test Results: (Continued)

7.7 Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #2

Design Pressure: a +2640/-2880 Pa (+55.14/-60.15psf)

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Observations
11 to 27.5	3500	2.3	
0 to 33	300	4.2	
27.5 to 44	600	2.1	
16.5 to 55	100	4.1	

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Observations
18 to 60	50	4.4	
30 to 48	1050	2.3	
0 to 36	50	4.5	
12 to 30	3350	2.0	

Result: Pass

7.0 Test Results: (Continued)

7.8 Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #3

Design Pressure: a +2640/-2880 Pa (+55.14/-60.15psf)

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Observations
11 to 27.5	3500	2.1	
0 to 33	300	4.4	
27.5 to 44	600	2.3	
16.5 to 55	100	4.5	

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Observations
18 to 60	50	4.4	
30 to 48	1050	2.3	
0 to 36	50	4.6	
12 to 30	3350	2.5	

Result: Pass

Conclusion: Intertek-ATI observed no signs of failure in any area of the test specimens during the cyclic load test; as such, the test specimens satisfy the cyclic load requirements of TAS 203.

8.0 Test Equipment:

Canon: Constructed from steel piping utilizing compressed air to propel the missile

Missile: 2x4 Southern Pine

Timing Device: Electronic beam type

Cycling Mechanism: Computer controlled centrifugal blower with electronic pressure measuring device

Deflection Measuring Device: Linear transducers

Laboratory Compliance Statements: The following are provided as required by the protocols for the testing reported herein:

Upon completion of testing, specimens tested for TAS 201-94 met the requirements of Section 1626 of the Florida Building Code, Building.

AND

Upon completion of testing, specimens tested for TAS 202-94 met the requirements of Section 1620 of the Florida Building Code, Building.

AND

Upon completion of testing, specimens tested for TAS 203-94 met the requirements of Section 1626 of the Florida Building Code, Building.

Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.



Test Report No.: E8391.03-301-18
Report Date: 12/18/15
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Intertek-ATI will service this report for the entire test record retention period. Test records such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained by Intertek-ATI for the entire test record retention period.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen(s) tested. This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

For ARCHITECTURAL TESTING, INC.:

Dennis Janzen
Technician

Tyler Westerling, P.E.
Senior Project Engineer

TW:ss

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix A: Sketches (2)
Appendix B: Drawings (9)

This report produced from controlled document template ATI 00651, revised 07/08/15.

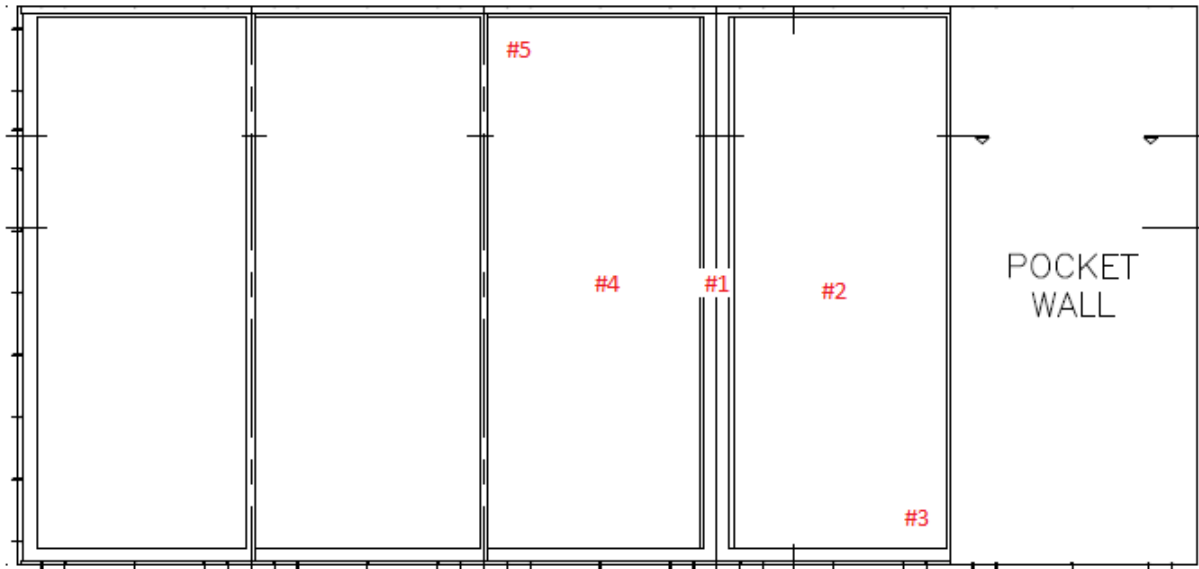
Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	12/18/15	N/A	Original report issue.
1	01/22/16	3	Corner construction – added top and bottom.
1	01/22/16	4	Weatherstripping description. Sill track drainage.
1	01/22/16	5	Hardware description.
1	01/22/16	Appendix B	Revised drawings.
2	02/09/16	Appendix B	Revised drawings.
3	02/12/16	3	Corrected panel corner details.
4	04/01/16	4	Corrected panel corner detail.
4	04/01/16	5	Corrected hardware spelling.
4	04/01/16	6	Corrected installation details.
4	04/01/16	Appendix B	Updated drawing package.

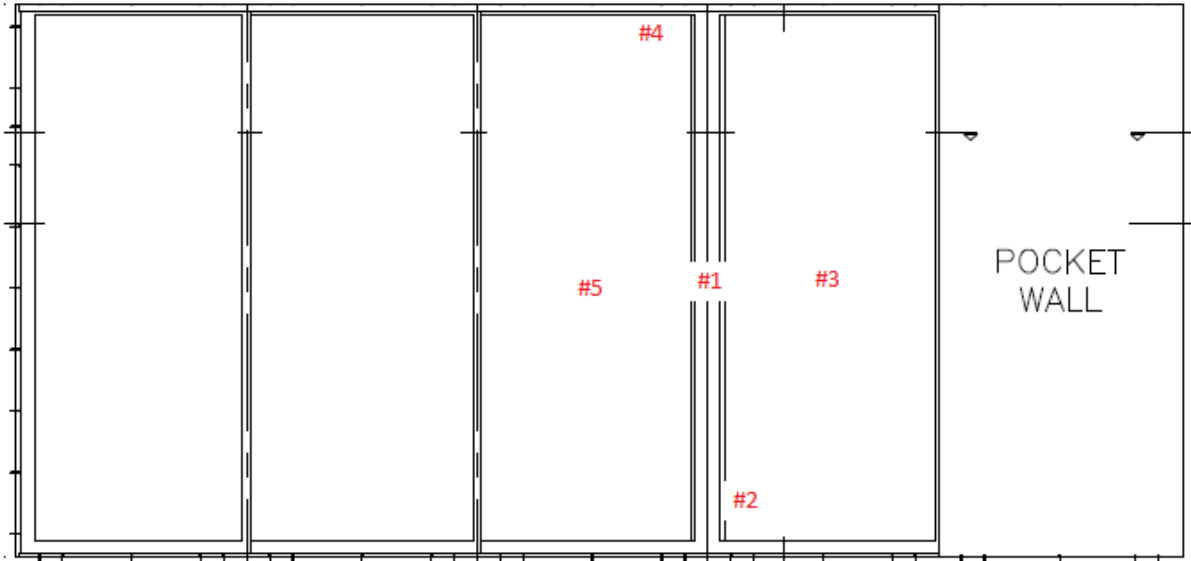
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Appendix A

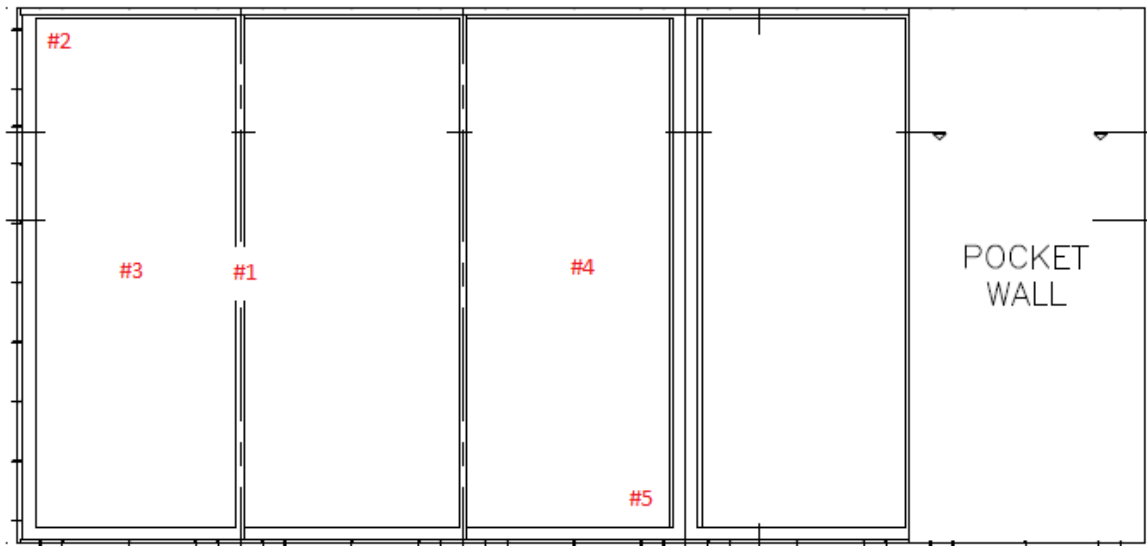
Sketches



Sketch #1: Specimen #1 Impact Locations



Sketch #2: Specimen #2 Impact Locations



Sketch #3: Specimen #3 Impact Locations

Appendix B

Drawings

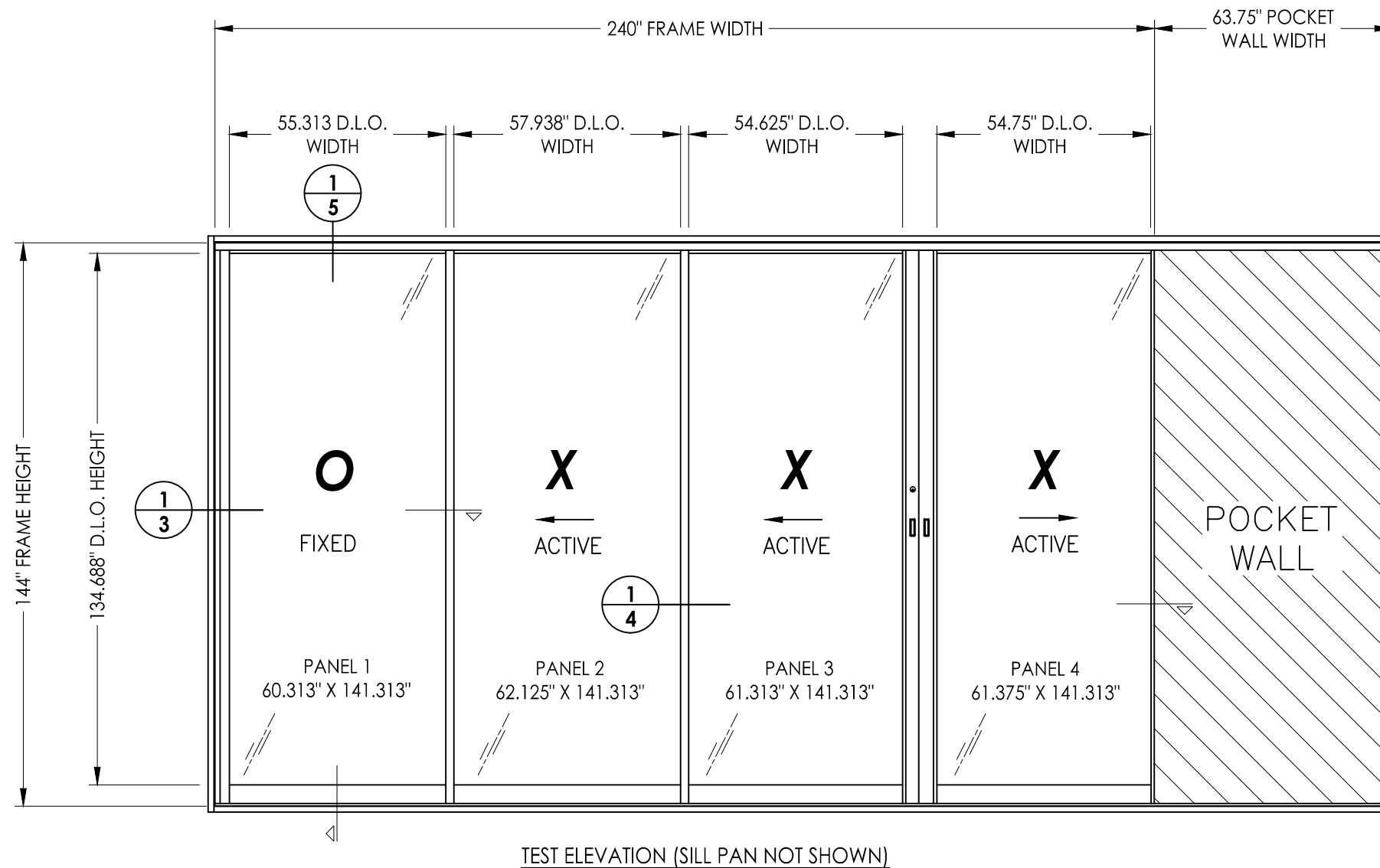

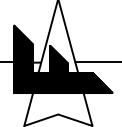
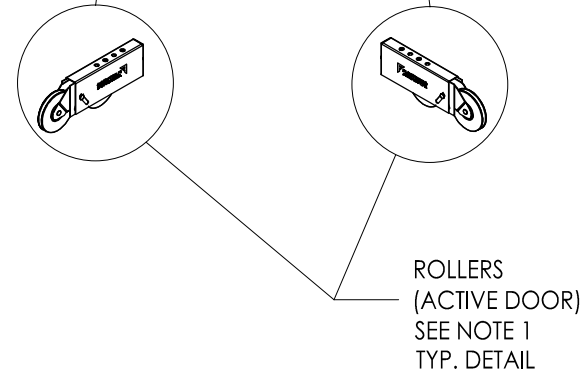
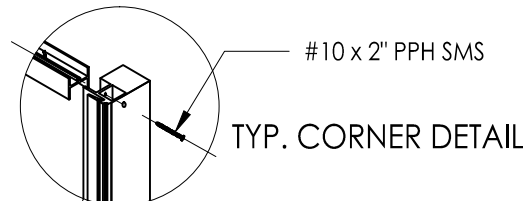
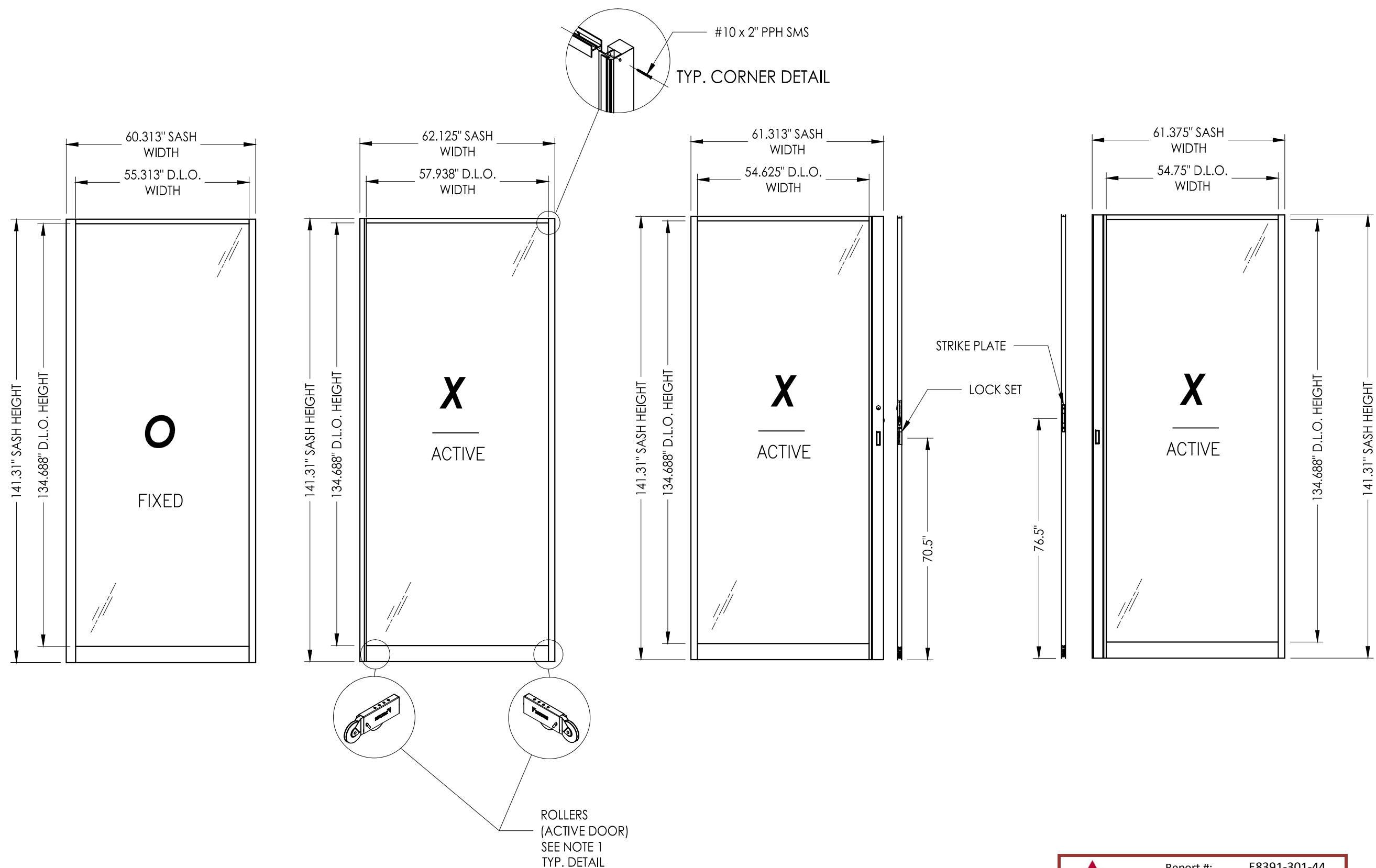


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SHEET #	DESCRIPTION
1	Table of contents and test elevation
2	Sash details
3	Horizontal cross section
4	Horizontal cross section
5	Vertical cross sections
6	Frame anchoring
7	Hardware Components
8	Hardware Components
9	Components
10	Bill of materials, components and glazing details

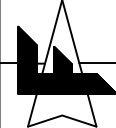

 Report #: E8391-301-44
 Date: 04/01/16
 Verified by: *[Signature]*

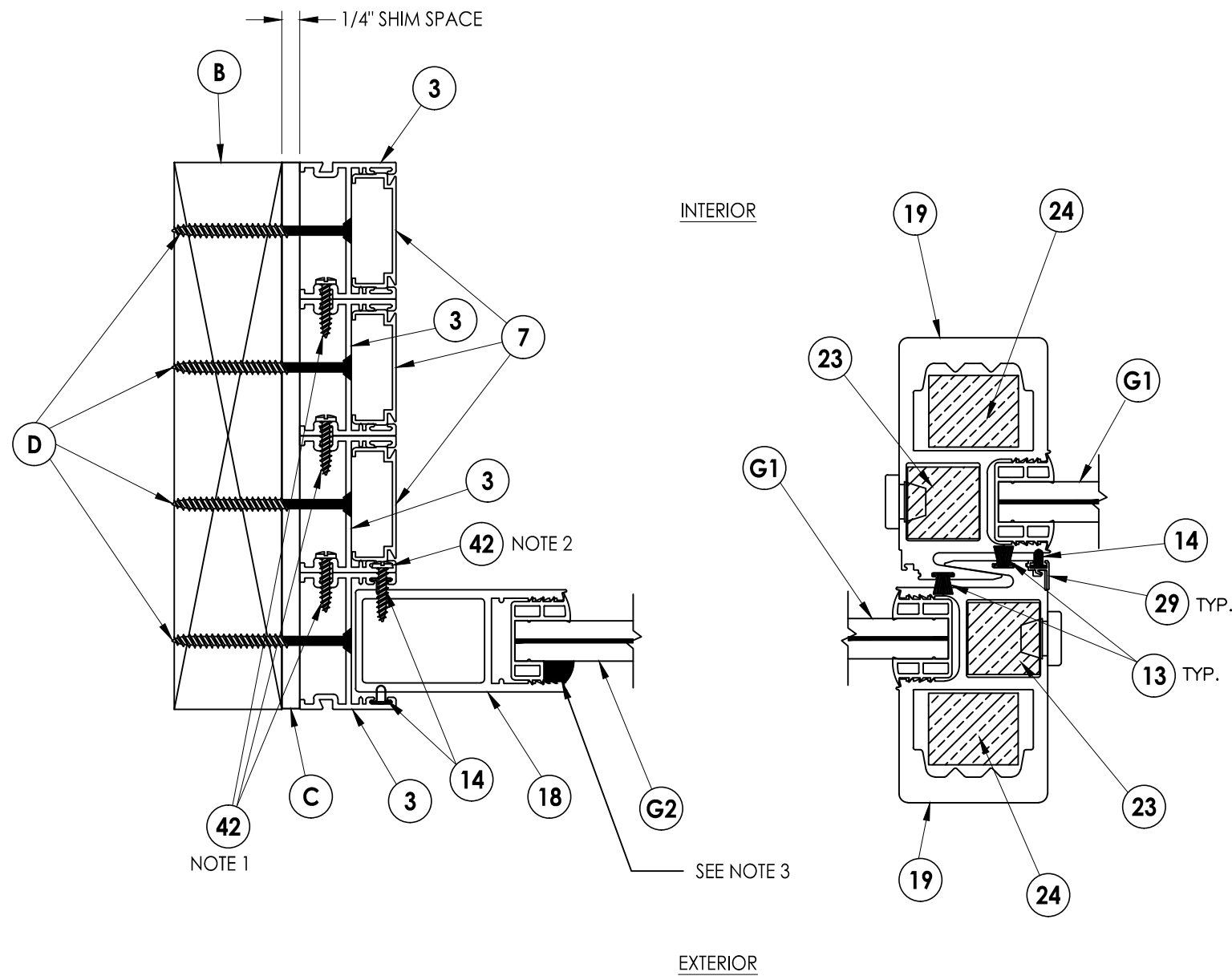
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DATE	
REVISIONS	
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DRAWN BY:	BL
JOB NUMBER:	385199-V2
MATERIAL:	SERIES 3070-HI
CUSTOMER:	FLEETWOOD WINDOWS AND DOORS
JOB NAME:	FLEETWOOD TAS & AAMA TEST
	
	
SCALE	DO NOT SCALE
DRAWING NO.	#####
SHEET	1 OF 9



	Report #:	E8391-301-44
	Date:	04/01/16
	Verified by:	<i>[Signature]</i>


Note:
 1. Roller attached to bottom rail utilizing (2) 1/4-20 x 1/2" PFH Screw and attached to Stile utilizing (2) 1/4 -20 x 1" PPH Screw.

MATERIAL: SERIES 3070-HI		DATE:	6/22/15	REVISIONS	COMMENTS
CUSTOMER: FLEETWOOD WINDOWS AND DOORS		DRAWN BY:	BL		
JOB NAME: FLEETWOOD TAS & AAMA TEST		JOB NUMBER:	385199-V2		
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DRAWING NO.: #####					
SHEET: 2 OF 9					

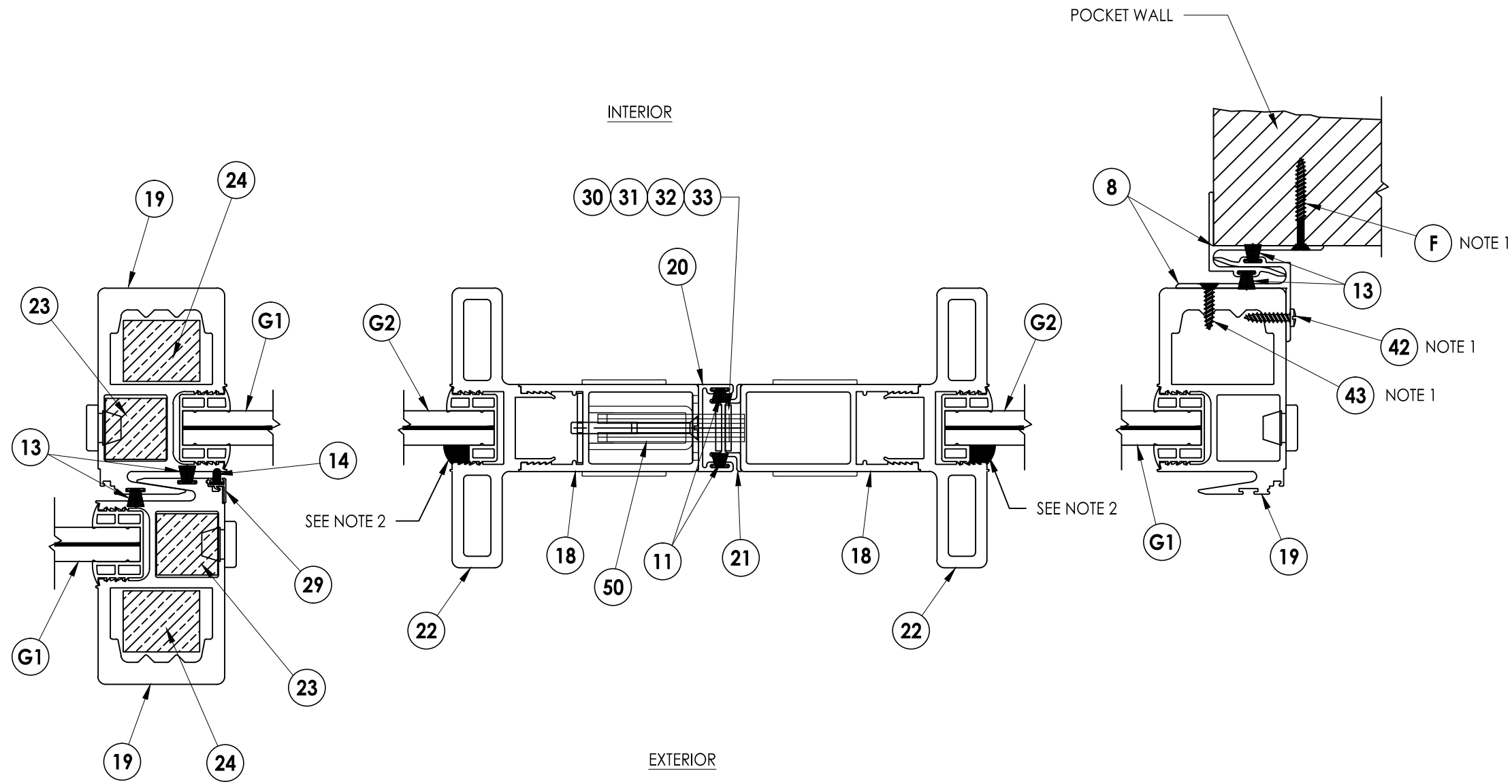


1
3 HORIZONTAL CROSS SECTION

- NOTE:
1. 1" from each end then 60" on center.
 2. 48" from each end (2) total
 3. Interior or exterior (gasket cut 2" from top rail and bottom rail on stile).


 Architectural Testing	Report #:	E8391-301-44
	Date:	04/01/16
	Verified by:	<i>[Signature]</i>

MATERIAL: SERIES 3070-HI		DATE:	6/22/15	COMMENTS
CUSTOMER: FLEETWOOD WINDOWS AND DOORS		DRAWN BY:	BL	
JOB NAME: FLEETWOOD TAS & AAMA TEST		JOB NUMBER:	385199-V2	
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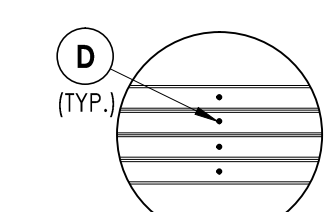
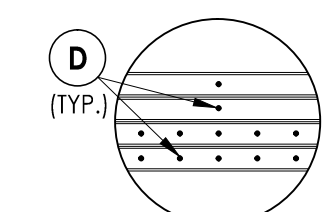
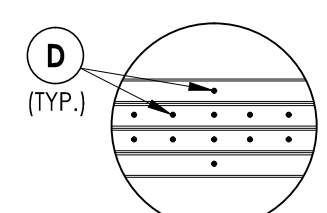
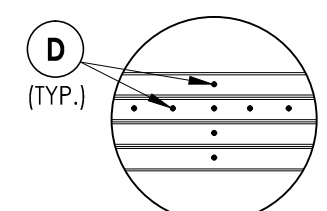
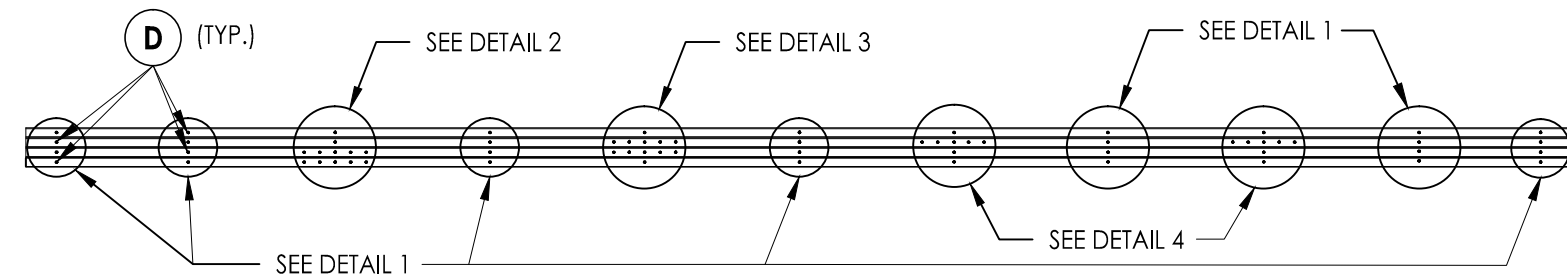
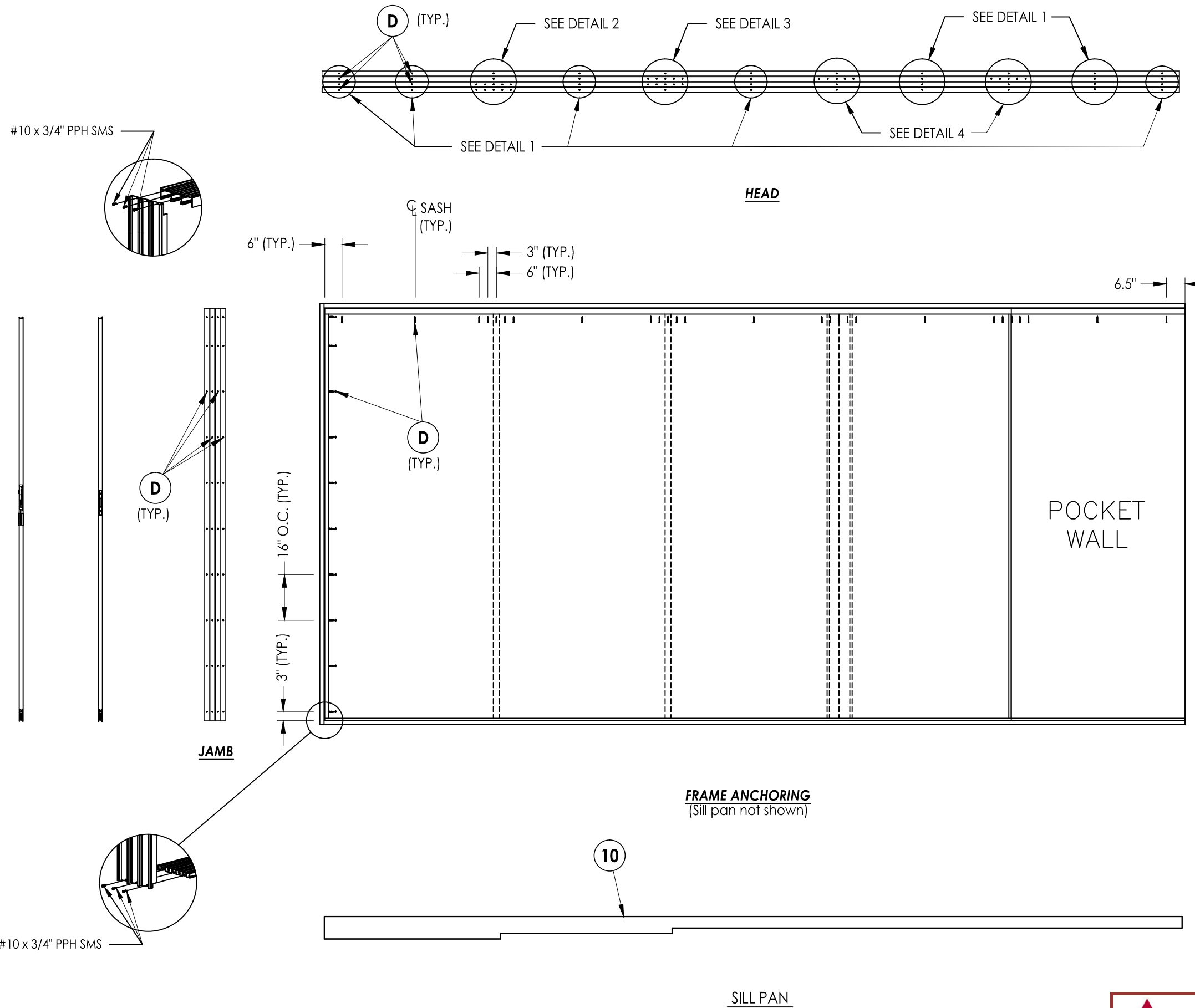


1
4 HORIZONTAL CROSS SECTION

NOTE:
 1. 2" from each end then 12" on center
 2. Interior or exterior (gasket cut 2" from top rail and bottom rail on stile).

	Report #:	E8391-301-44
	Date:	04/01/16
	Verified by:	<i>[Signature]</i>

DATE:	6/22/15	JOB NUMBER:	385199-V2
REVISIONS:			
DRAWN BY:	BL		
COMMENTS:			
MATERIAL: SERIES 3070-HI CUSTOMER: FLEETWOOD WINDOWS AND DOORS JOB NAME: FLEETWOOD TAS & AAMA TEST			
FLEETWOOD WINDOWS AND DOORS <small>1 FLEETWOOD WAY CORONA, CALIFORNIA 92719 - www.fleetwoodusa.com</small>			
			
SCALE: ↓ DO NOT SCALE			
DRAWING NO.: #####			
SHEET: ↓ 4 OF 9			




DETAIL 4

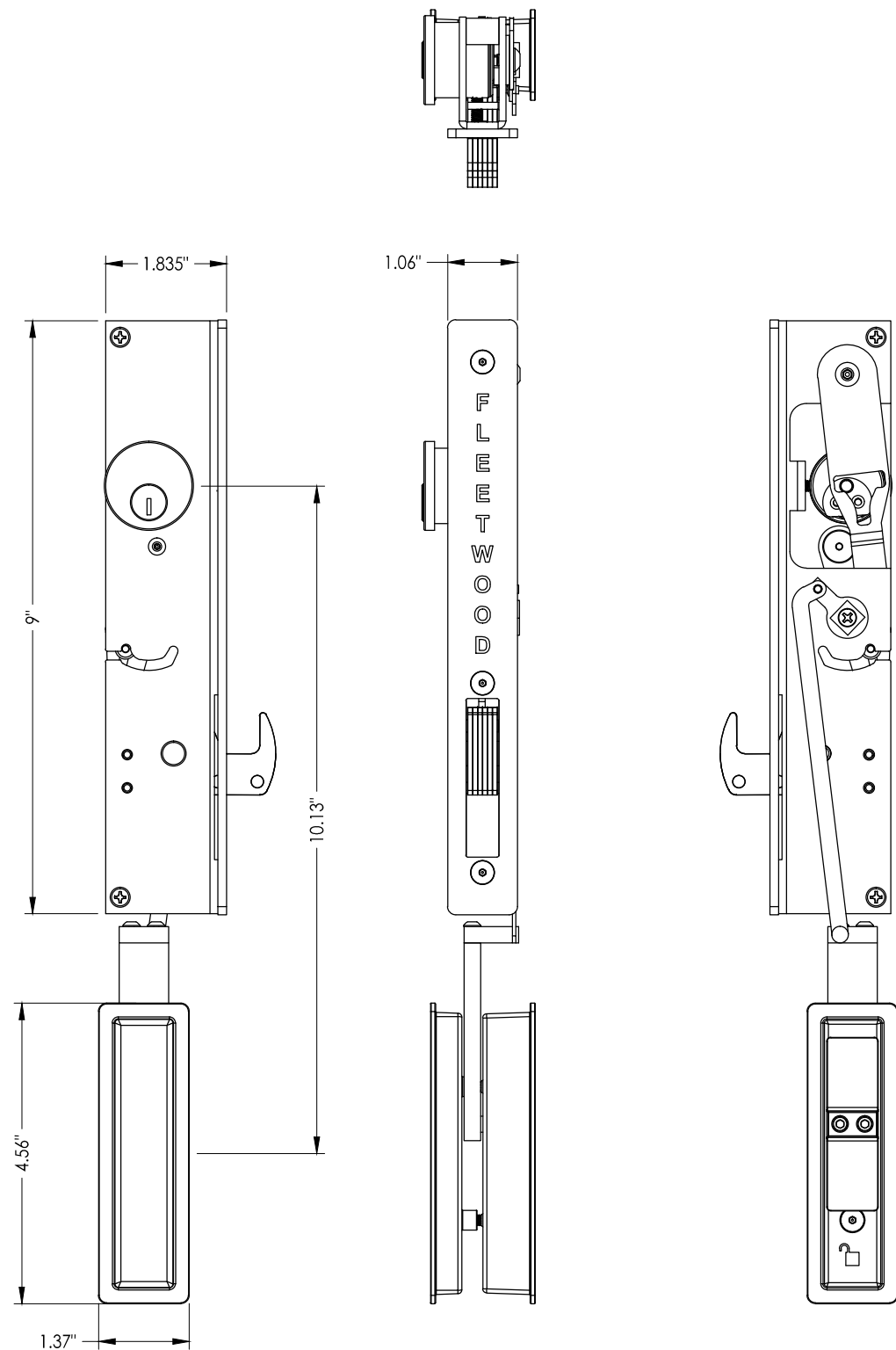
DETAIL 3

DETAIL 2

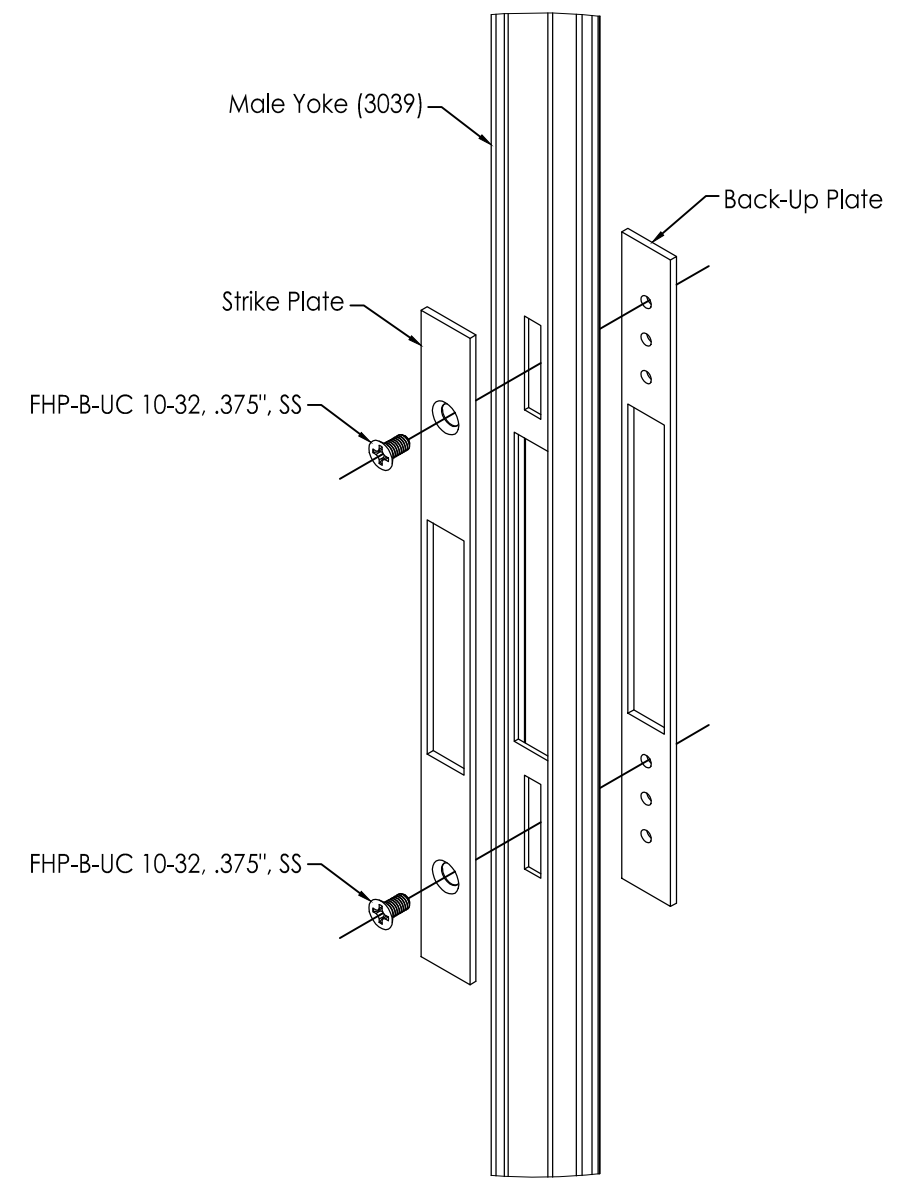
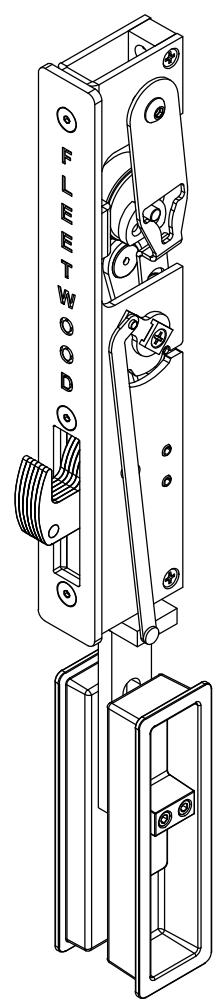
DETAIL 1

COMMENTS					
DRAWN BY					
DATE					
REVISIONS					
DATE:	6/22/15				
DRAWN BY:	BL				
JOB NUMBER:	385199-V2				
MATERIAL:	SERIES 3070-HI				
CUSTOMER:	FLEETWOOD WINDOWS AND DOORS				
JOB NAME:	FLEETWOOD TAS & AAMA TEST				
FLEETWOOD WINDOWS AND DOORS <small>1 FLEETWOOD WAY CORONA, CALIFORNIA 92709 - www.fleetwoodusa.com</small>					
					
SCALE: DO NOT SCALE					
DRAWING NO.: #####					
SHEET: 6 OF 9					


 Report #: E8391-301-44
 Date: 04/01/16
 Verified by: *[Signature]*



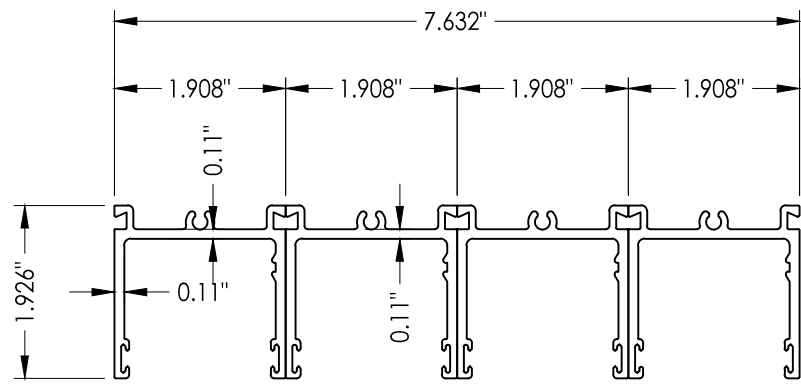
49 ARCHETYPE NARROW LOCK



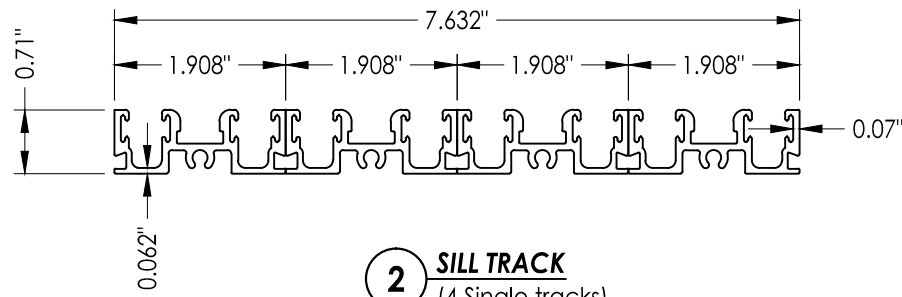
30 STRIKE PLATE

 Architectural Testing	Report #:	E8391-301-44
	Date:	04/01/16
	Verified by:	<i>[Signature]</i>

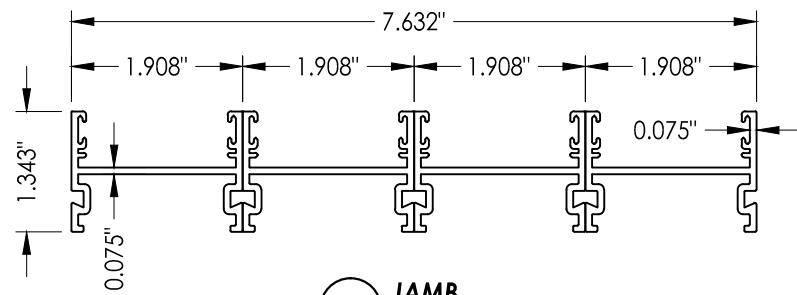
MATERIAL: SERIES 3070-HI		DATE:	6/22/15	REVISIONS	DATE	DRAWN BY	COMMENTS
CUSTOMER: FLEETWOOD WINDOWS AND DOORS		DRAWN BY:	BL				
JOB NAME: FLEETWOOD TAS & AAMA TEST		JOB NUMBER:	385199-V2				
FLEETWOOD WINDOWS AND DOORS <small>1 FLEETWOOD WAY CORONA, CALIFORNIA 92779 - www.fleetwoodusa.com</small>							
		SCALE		DO NOT SCALE			
		DRAWING NO.:		#####			
		SHEET		7		OF 9	



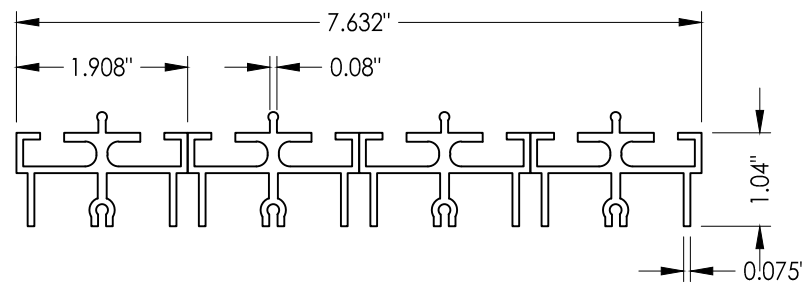
1 HEAD TRACK
(4 Single tracks)



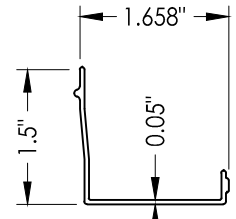
2 SILL TRACK
(4 Single tracks)



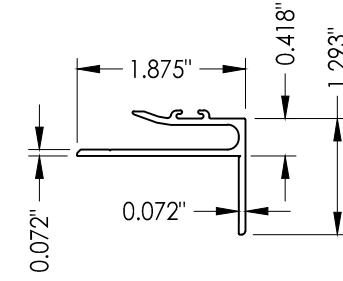
3 JAMB
(4 Single tracks)



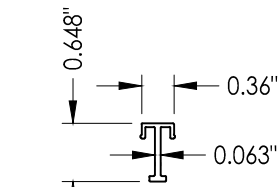
4 SUB-SILL SUPPORTS
1 HIGH X 4 WIDE



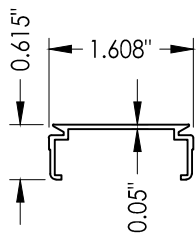
5 HEAD FILLER



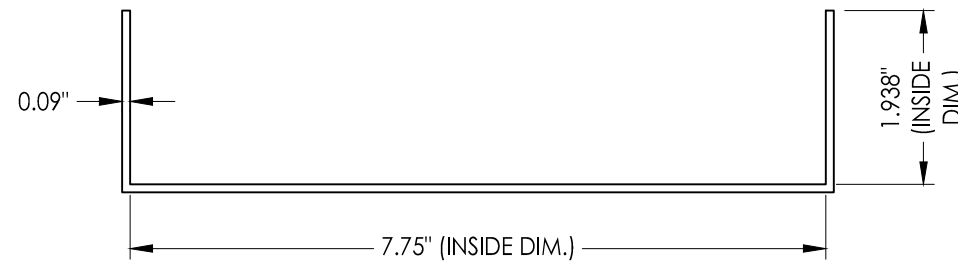
8 L-TYPE POST INTERLOCK



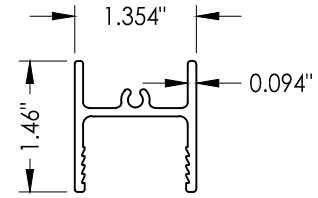
6 SILL FILLER



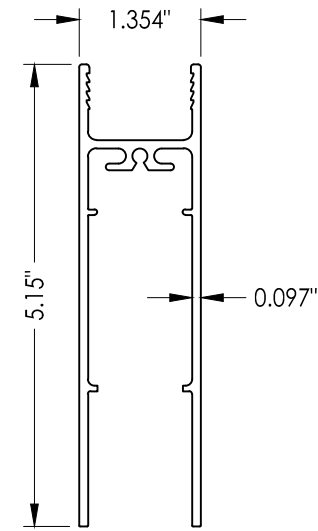
7 JAMB FILLER



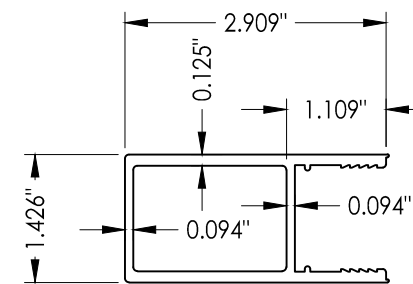
10 SUB-SILLPAN
Staggered Pan
4 Track to 2 Track



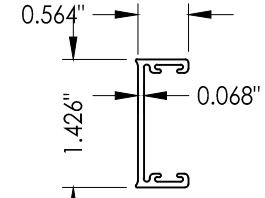
16 TOP RAIL



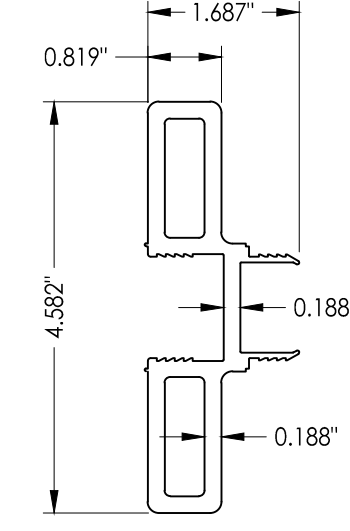
17 BOTTOM RAIL



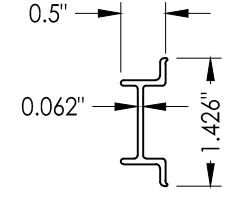
18 NARROW LOCK STILE/ WIDE FIXED STILE



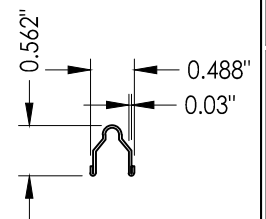
20 FEMALE YOKE



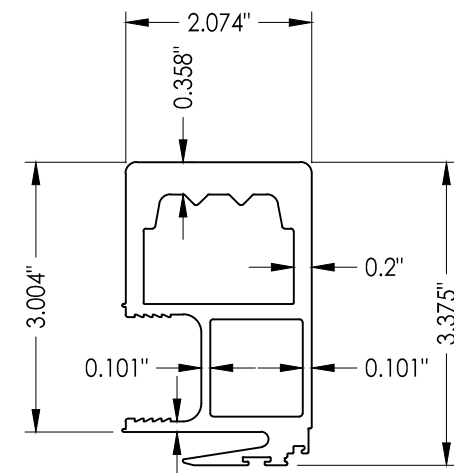
22 HP ADAPTOR



21 MALE YOKE



9 TRACK

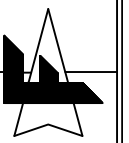


19 HP INTERLOCKER

REVISIONS	DATE	DRAWN BY	COMMENTS

MATERIAL: SERIES 3070-HI	DATE: 6/22/15	DRAWN BY: BL	JOB NUMBER: 385199-V2
CUSTOMER: FLEETWOOD WINDOWS AND DOORS			
JOB NAME: FLEETWOOD TAS & AAMA TEST			

FLEETWOOD
WINDOWS AND DOORS
1 FLEETWOOD WAY CORONA, CALIFORNIA 92709 - www.fleetwoodusa.com



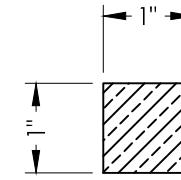
SCALE: DO NOT SCALE

DRAWING NO.: #####

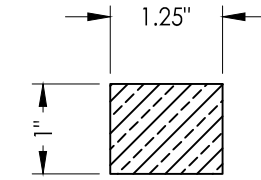
SHEET: 8 OF 9

Report #: E8391-301-44
Date: 04/01/16
Verified by: *[Signature]*

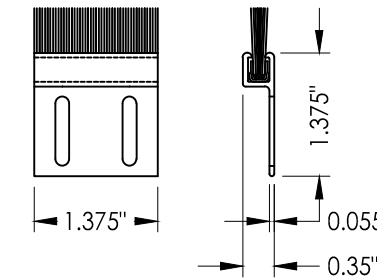
BILL OF MATERIALS			
ITEM #	DESCRIPTION	PART#	MATERIAL
B	2X BUCK SG >= 0.55		WOOD
C	1/4" MAX. SHIM SPACE		-
D	#10 x 2-1/2" PFH WOOD SCREW		STEEL
F	#8 x 1-1/2" PPH WOOD SCREW		STEEL
1	M/S HEAD (SINGLE TRACK)	3046	6063-T6 ALUM
2	M/S SILL (SINGLE TRACK)	3741	6063-T6 ALUM
3	JAMB (1 TRACK)	3048	6063-T6 ALUM
4	TRACK SUPPORT (SUB-SILL)	3774	6063-T6 ALUM
5	HEAD FILLER	3014	6063-T6 ALUM
6	SILL FILLER	3747	6063-T6 ALUM
7	JAMB FILLER	3710	6063-T6 ALUM
8	POST INTERLOCKER (L-TYPE)	3730	6063-T6 ALUM
9	S.S. TRACK	FW1020	STAINLESS STEEL
10	SUB-SILLPAN (1.938" DEPTH)	3722-4-4S	-
11	SMALL FIN SEAL .230	19118	-
12	9/16" GLAZING VINYL (ASTM C864)	25033	-
13	LARGE FIN SEAL .290	19117	-
14	Q-LON (U5212)	19120	-
15	Q-LON FOAM SEAL	25189	-
16	TOP RAIL	3004	6063-T6 ALUM
17	BOTTOM RAIL	3027	6063-T6 ALUM
18	NARROW LOCK STILE/WIDE FIXED STILE	3005	6063-T6 ALUM
19	HP INTERLOCKER	3034	6063-T6 ALUM
20	FEMALE YOKE	3040	6063-T6 ALUM
21	MALE YOKE	3039	6063-T6 ALUM
22	HP ADAPTOR	3716	6063-T6 ALUM
23	1" X 1" SOLID ALUMINUM	N/A	6061-T6 ALUM
24	1" X 1.25" SOLID ALUMINUM	N/A	6061-T6 ALUM
27	AIR BARRIER (SILL)	25383	SAVIO
28	AIR BARRIER (HEAD)	24097	SAVIO
29	6" AIR BARRIER FOR HP INTERLOCKER	25562	-
30	STRIKE PLATE	24980	STAINLESS STEEL
31	BACK UP PLATE	24981	STAINLESS STEEL
32	10-32 X .5" FHP	N/A	STEEL
33	#10 X 1" PHP	N/A	STEEL
34	#8 TEK X 1/2"	N/A	STEEL
35	DOW 995 SILICONE	N/A	-
42	#8 X 3/4" PPH SMS	N/A	STEEL
43	#8 X 3/4" PFH SMS	N/A	STEEL
44	#8 X 1" PFH TEK SCREW	N/A	STEEL
49	ARCHETYPE NARROW LOCK	N/A	-
51	ARCHETYPE ROLLERS	N/A	-



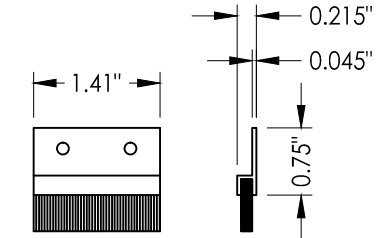
23 ALUMINUM REINFORCEMENT



24 ALUMINUM REINFORCEMENT

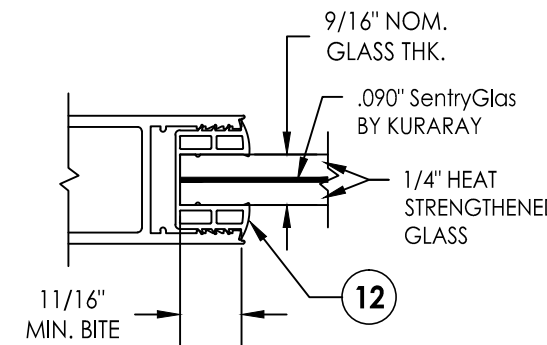


28 AIR BARRIER (HEAD)
(AT INTERLOCKERS)

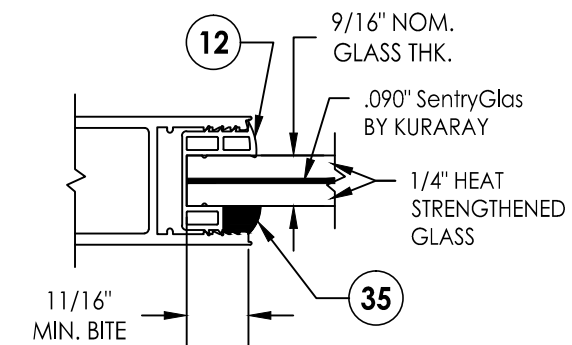


27 AIR BARRIER (SILL)
(AT INTERLOCKERS)

	Report #:	E8391-301-44
	Date:	04/01/16
	Verified by:	<i>[Signature]</i>



G1 GLAZING DETAIL



G2 GLAZING DETAIL

COMMENTS				
DRAWN BY				
DATE				
REVISIONS				
DATE:	6/22/15	JOB NUMBER:	385199-V2	
DRAWN BY:	BL			
MATERIAL:	SERIES 3070-HI	CUSTOMER:	FLEETWOOD WINDOWS AND DOORS	
		JOB NAME:	FLEETWOOD TAS & AAMA TEST	
SCALE: DO NOT SCALE DRAWING NO.: ##### SHEET: 9 OF 9				