

PRODUCT APPROVAL EVALUATION REPORT

Product Manufacturer : Elicc Americas Corporation
13475 Danielson St Suite 250
Poway, California 92064

Product Name/ Model &Description

Series WW 200 Window Wall System
Specimen # 4 - Large Missile impact. Mockup =1
Specimen # 5 - Small Missile impact. Mockup =2
Specimen # 6 - Small Missile impact. Mockup =3
Specimen # 7 - Small Missile impact. Mockup =4
Specimen # 8 - Small Missile impact. Mockup =5
Specimen # 9 - Small Missile impact. Mockup =6

Scope: This product has been evaluated by the below - signed Florida Professional Engineer for compliance with the code noted herein and is for the purpose intended, at least equivalent to that required by the Code, in accordance with section 553.842 F.S & Chapter 61G20-3.005 F.A.C. Re-evaluation of this product shall be required following applicable code modifications or revisions.

Code: 8th Edition Florida Building Code (2023) inclusive of all Supplements effective as of this report date.

Compliance Method: 61G20 - 3.005(1)(d) - Evaluation report from a licensed professional Engineer .

Product Description: Product Approval Drawing WW- 200 SERIES LARGE MISSILE IMPACT RESISTANT(L.M.I.)and SMALL MISSILE IMPACT (S.M.I) prepared by ELICC AMERICAS CORPORATION Signed and Sealed by Pavan Manepalli P.E, is an integral part of this Evaluation Report.

Limitations and Conditions of use:

1. This product has been evaluated for use Inside and Outside of the HVHZ (High - Velocity Hurricane Zone)
2. Impact Resistance : Large Missile Impact and Small Missile Impact
3. Refer to Product Approval Drawing noted above for :
 - a. Maximum allowable wind loads at the related maximum allowable size (S)
 - b. Other load limitations applicable to the product, if any
 - c. Overall dimensions and material/grade of main product components, accessories, etc.
 - d. Illustrated diagrams of the attachment of the product to the structure.
 - e. Anchor type(s), size(s), substrate(s), embedment, edge distance and spacing/ locations.

TEST REPORTS :

Mandatory Tests (Tested in accordance with Florida Building Code Tests Protocols)

Test Lab : Black water Testing Inc - West Palm Beach , FL

Report Number: BT -ELG- 24- 001 Signed and Sealed by Michael D. Caldwell, PE FL# 49979

Test Report Date: 11-05-2024

Test Standard
and Description: ASTM E283-04 (air infiltration)
ASTM E331-00 (water infiltration)
ASTM F588-17 (Disassembly Test)

TAS 201-94/ASTM E1996-20 - (Mock Up 1 was subjected to large missile impacts (Level D) per TAS 201-94. Mock Up 2-6 was subjected to small missile impacts (Level A) per TAS 201-94.)

TAS 202-94 - (Mock Up 1-6 were subjected to static wind loads in accordance with TAS 202-94. Mock Up 1&2 completed wind loads to verify a Design Load of +/-100.00psf. Mock Ups 3&5 completed wind loads to verify a Design Load of +/-130.00psf.). Mock ups 4&6 completed wind loads to verify a Design load of +/-1175 psf.

TAS 203-94/ ASTM E1886-19 - (Mock Up 1-6 were subjected to cyclic wind loads in accordance with TAS 203-94. Mock Up 1&2 successfully completed the cyclic wind loads to verify a Design Load of +/-100.00 psf. Mock Up 3&5 successfully completed the cyclic wind loads to verify a Design Load of +/-130.00 psf). Mockup 4&6 successfully completed the cyclic wind loads to verify a design load of +/- 175.00 psf.

Engineering Analysis :

The following engineering analysis and/or Calculations have been performed

1. No comparative analysis has been performed for conditions other than those tested.
2. No rational analysis has been performed.
3. Anchor calculations are based on manufacturer's published anchor capacity.

Equivalency Evaluation to AAMA 501 : It has been determined that for the above referenced product with Florida Product Approval # 46344 the testing performed for the TAS 201, TAS 202 and TAS 203 meet or exceed the requirement of AAMA 501.



BLACKWATER TECHNICAL SERVICES INC.

7341 Westport Pl Suite 1A, West Palm Beach Fl. 33413

Phone: 561-508-2830 E-mail: Engdep@blackwatertesting.com

MIAMI-DADE CERTIFICATION #21-0909.01 ISO/IEC 17025:2017 AT-2584



SUMMARY OF TESTING

CLIENT:

ELICC Group

2181 Meyers Ave., Suite: C

Escondido, CA 92029

Phone: (760) 233-0066 Fax: (760) 233-0065

PRODUCT DESCRIPTION OF UNIT: WW-200 Series Window Wall System (LMI-D & SMI)

TEST DATES: Start:8/15/2024 End:9/15/2024

WITNESS TO TESTING: Mike Caldwell, PE BT President
Wyatt Sherman, Test Engineer

AIR INFILTRATION: Mock Ups 1 & 3-6 passed testing criteria for air infiltration per ASTM E283-19.

WATER INFILTRATION: Mock Ups 1 & 3-6 passed testing criteria for water infiltration per ASTM E331-00(23).

DISASSEMBLY TEST: Mock Ups 1 & 3-6 passed testing criteria for disassembly test per ASTM F588-17(23).

STATIC WIND LOADS (TAS 202-94): Mock Ups 1-6 were subjected to static wind loads in accordance with **TAS 202-94**. Mock Ups 1& 2 completed wind loads to verify a **Design Load of +/-110.00psf**. Mock Ups 3&5 completed wind loads to verify a **Design Load of +/-130.00psf**. Mock Ups 4&6 completed wind loads to verify a **Design Load of +/-175.00psf**.

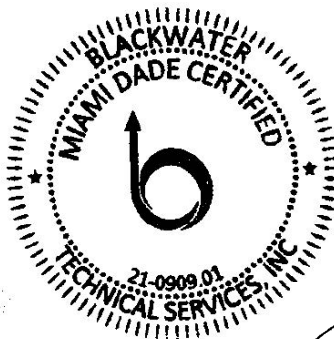
LARGE & SMALL MISSILE IMPACTS (TAS 201-94/ASTM E1996-23): Mock Up 1 was subjected to large missile impacts (Level D) per TAS 201-94. Mock Ups 2-6 were subjected to small missile impacts (Level A) per TAS 201-94.

CYCLIC LOADS (TAS 203-94/ ASTM E1886-19): Mock Ups 1-6 were subjected to cyclic wind loads in accordance with **TAS 203-94**. Mock Ups 1&2 successfully completed the cyclic wind loads to verify a **Design Load of +/-110.00 psf**. Mock Up 3&5 successfully completed the cyclic wind loads to verify a **Design Load of +/-130.00 psf**. Mock Up 4&6 successfully completed the cyclic wind loads to verify a **Design Load of +/-175.00 psf**.

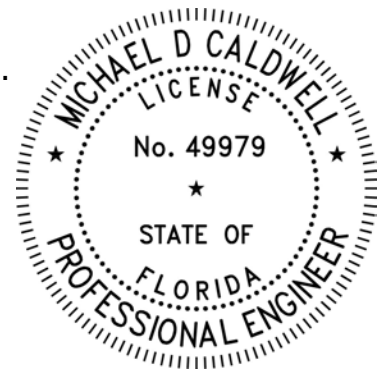
CONCLUSION: Following testing Mock Ups 1-6 were disassembled. No failures were observed in the fastenings, panes, or anchorages. **The "WW-200 Series Window Wall System (LMI-D & SMI)" products were tested in accordance with and meet the requirements to comply with Florida Building Code 2023.**

Respectfully submitted,

BLACKWATER TECHNICAL SERVICES INC.



Mike Caldwell, President



This item has been digitally signed and sealed by Michael Caldwell, PE, on 11/5//2024. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Statement of Conformance:

This is a general statement and does not supersede the specific product descriptions in this report. The specimens are in conformance with attached Drawings. These drawings have been marked to indicate the appropriate portions descriptive of this test series. Blackwater Technical Services Inc. does not take responsibility of product performance and whose only purpose is to test and gather pertinent data under test report format for the client.

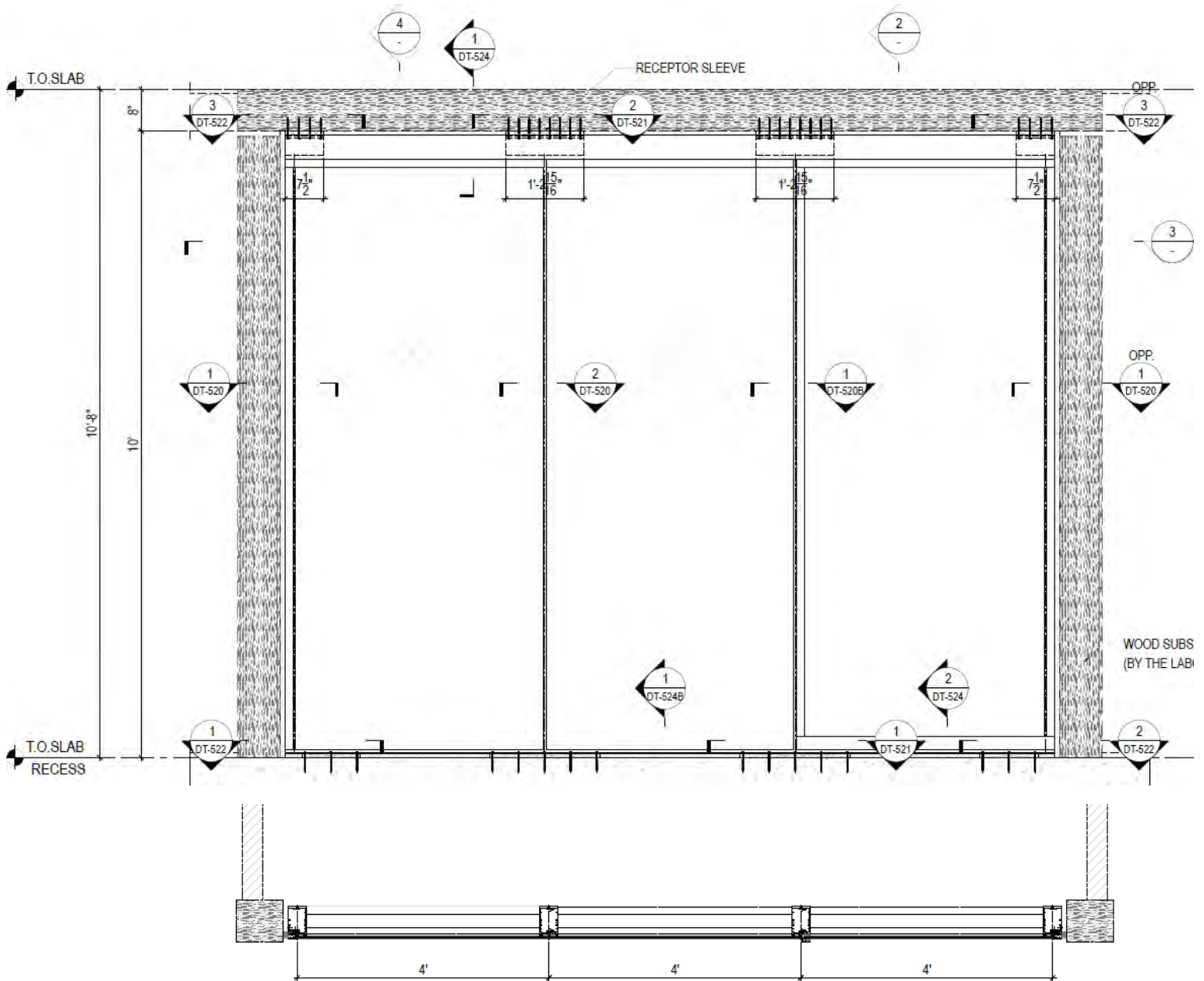
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BT-ELG-24-001

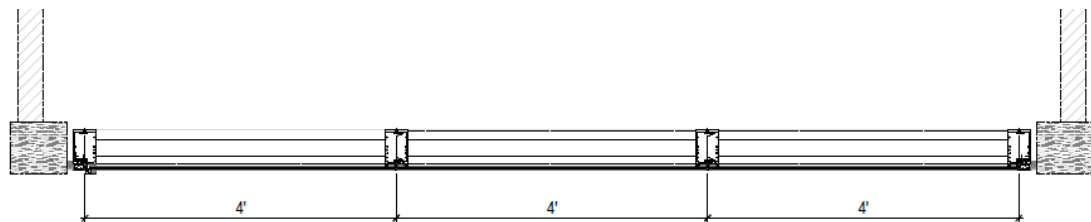
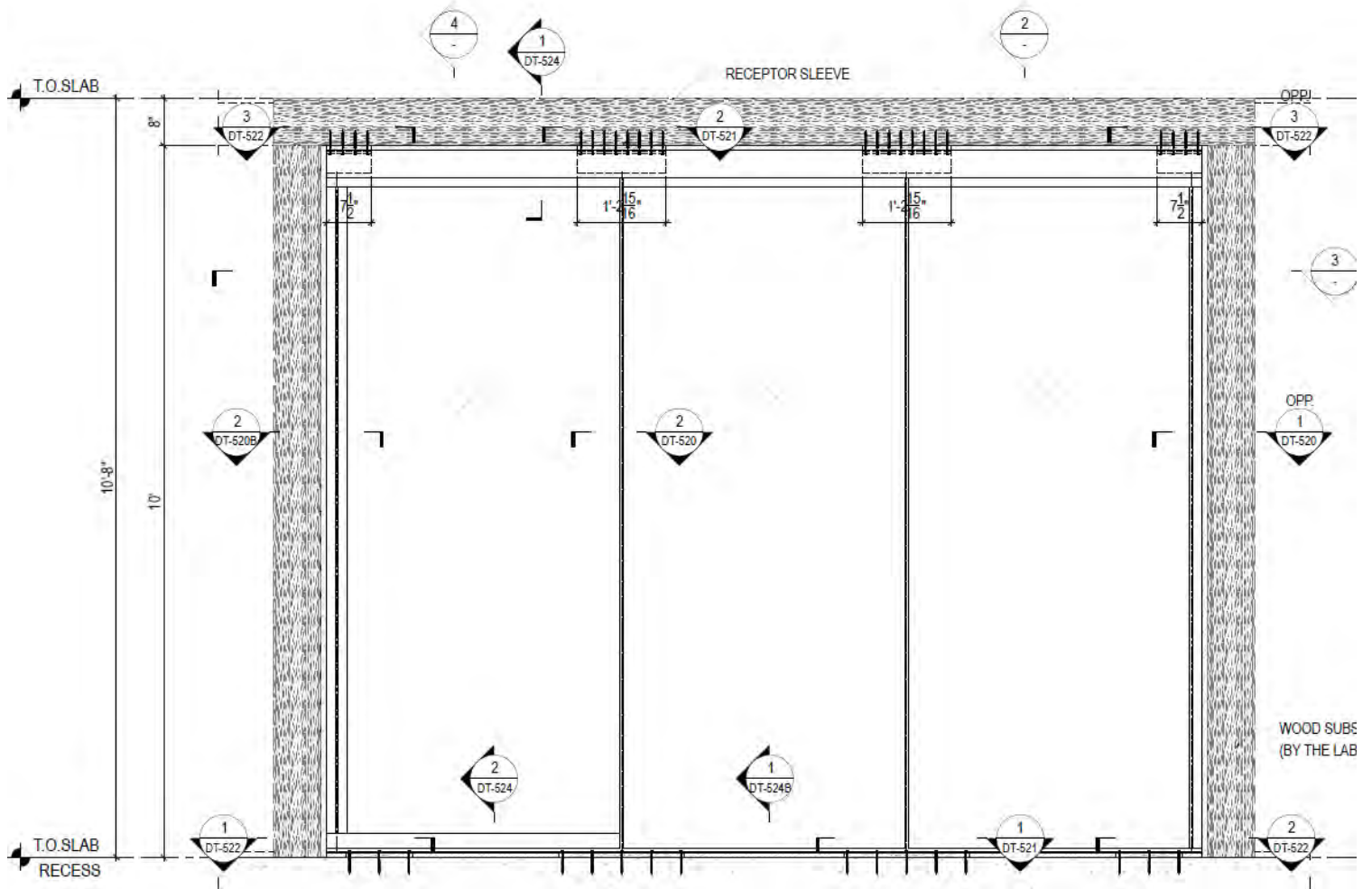
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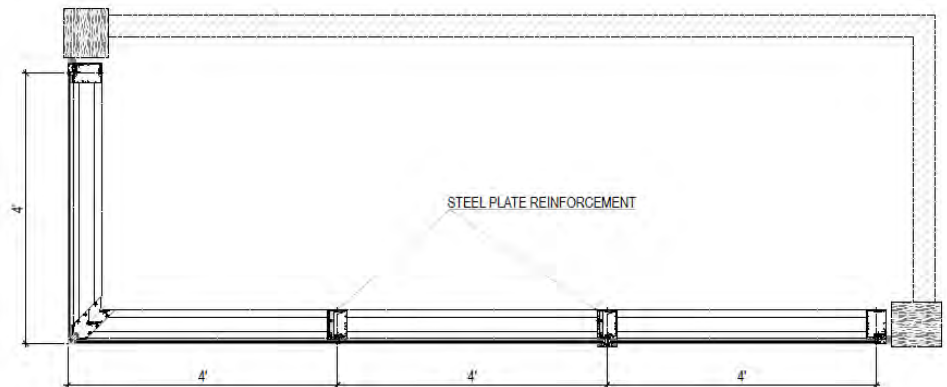
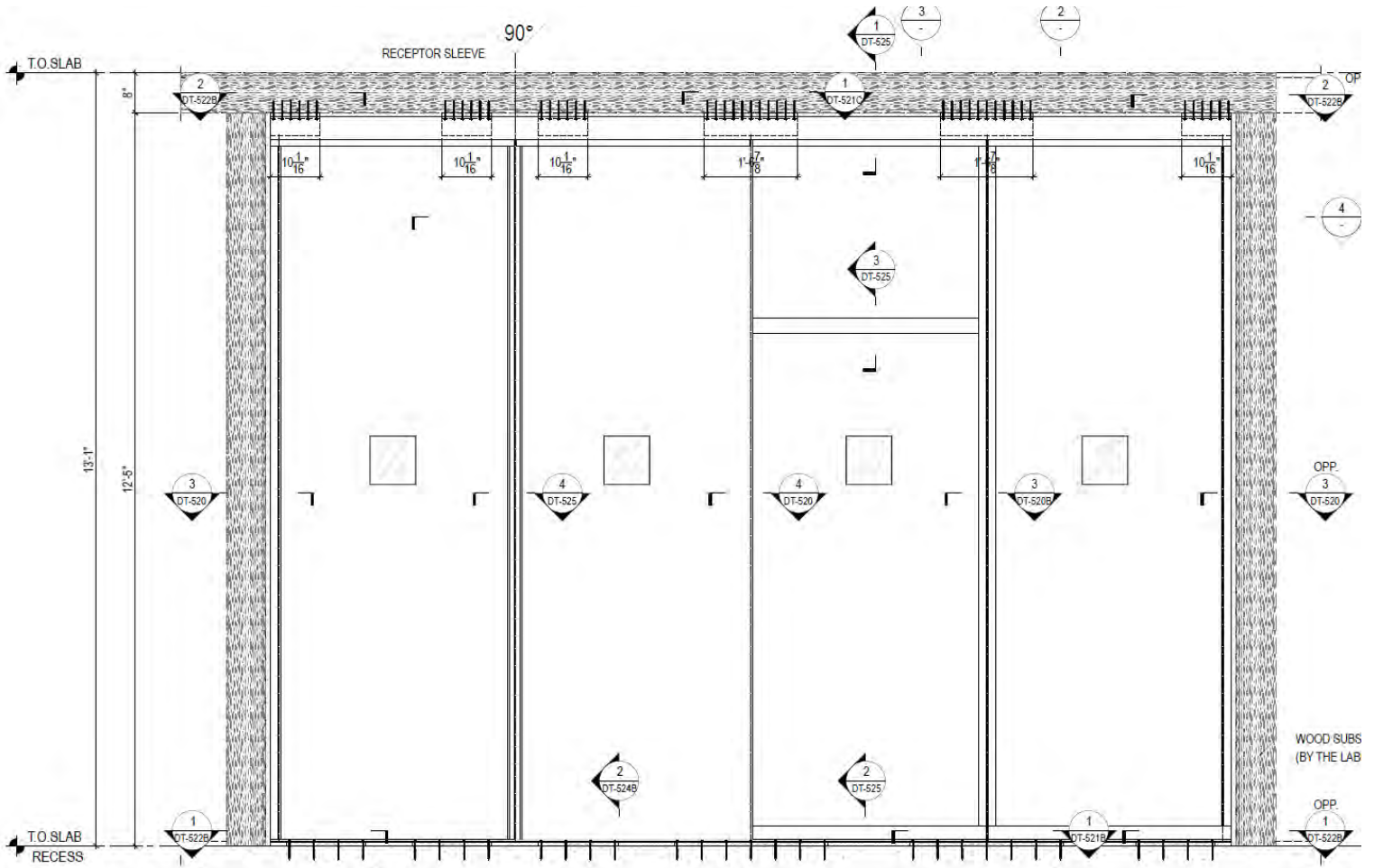
Mock Up Plans and Elevations:



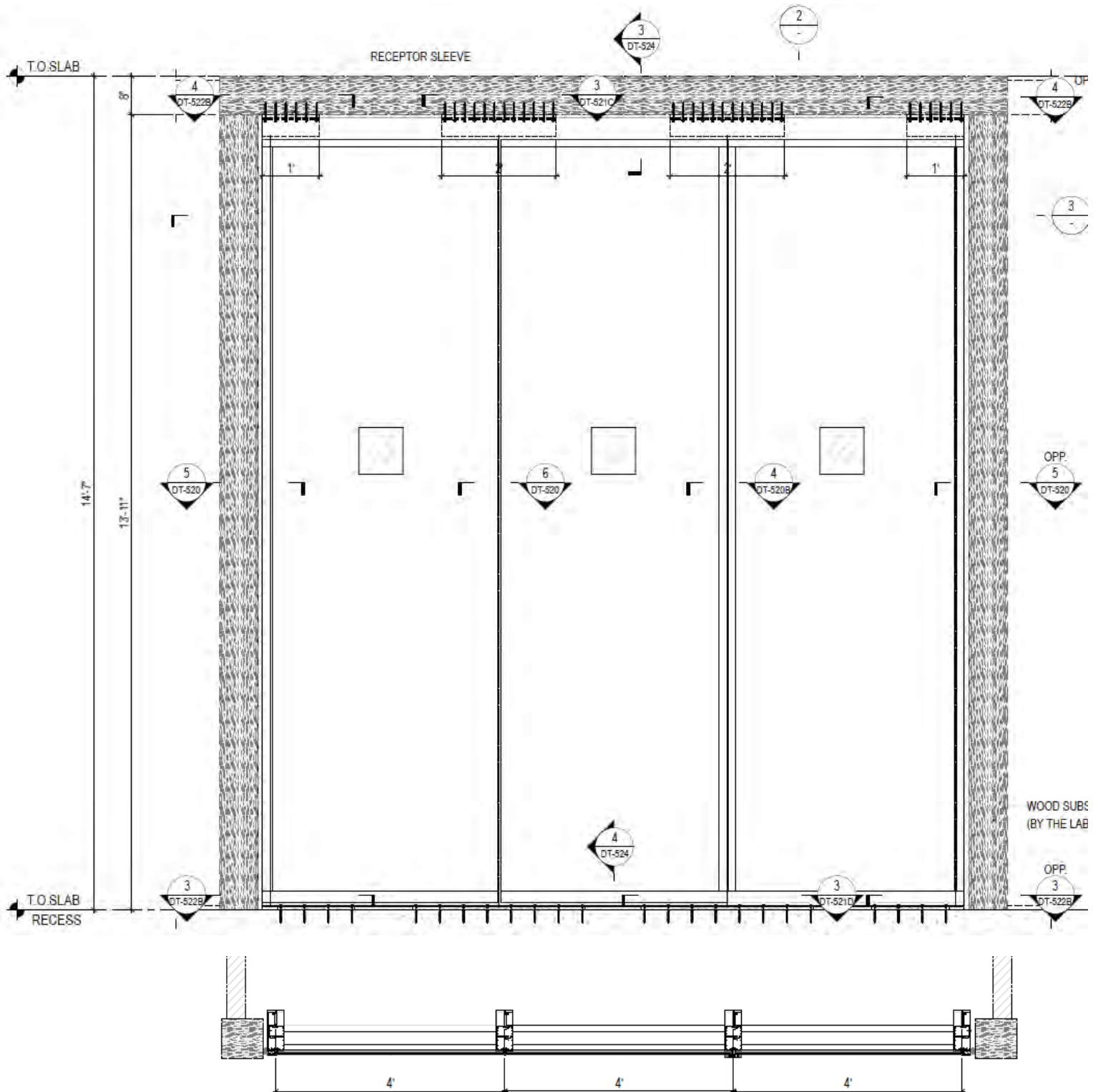
Mock Up 1 (Shop Drawing Specimen 4)



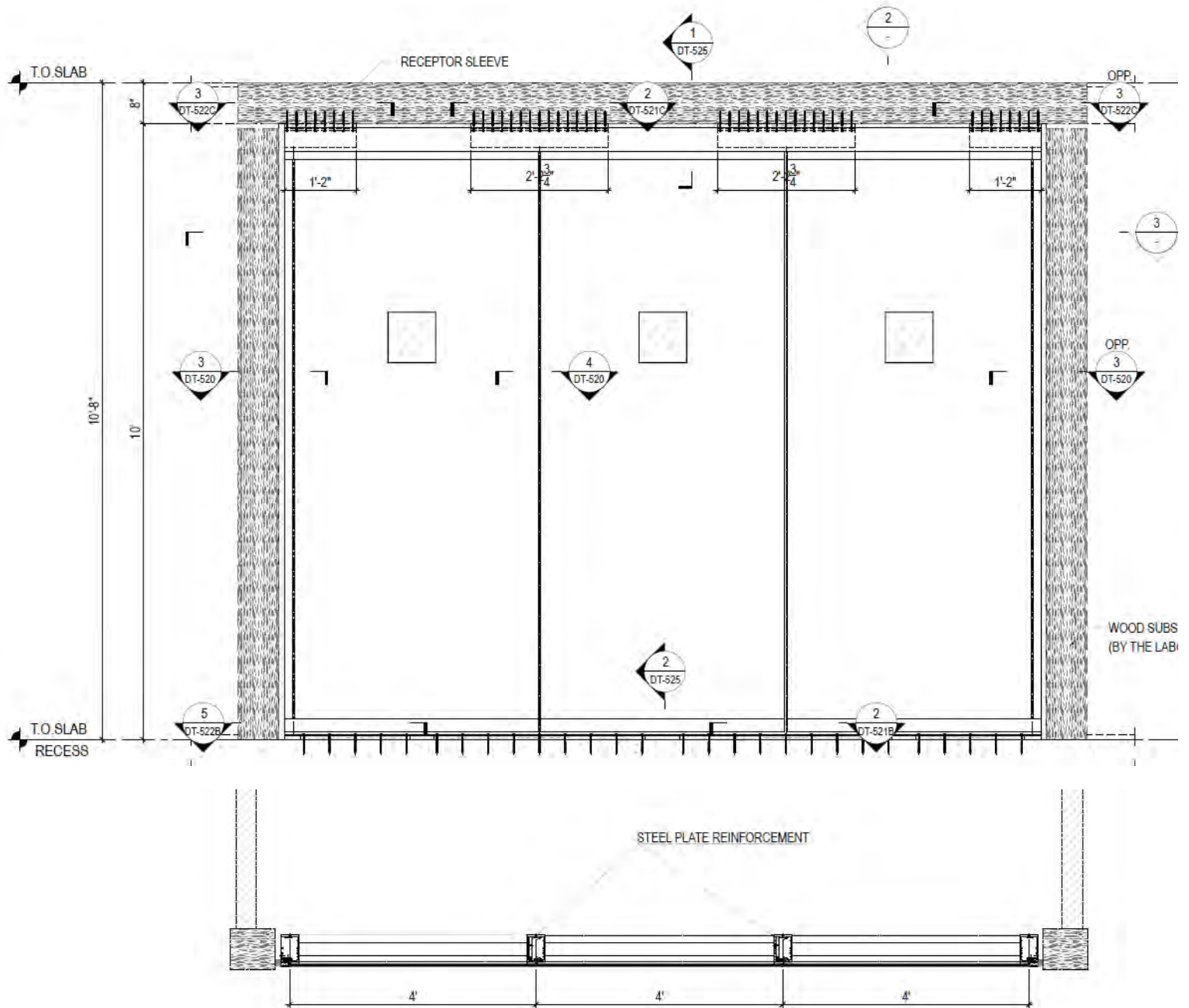
Mock Up 2 (Shop Drawing Specimen 5)



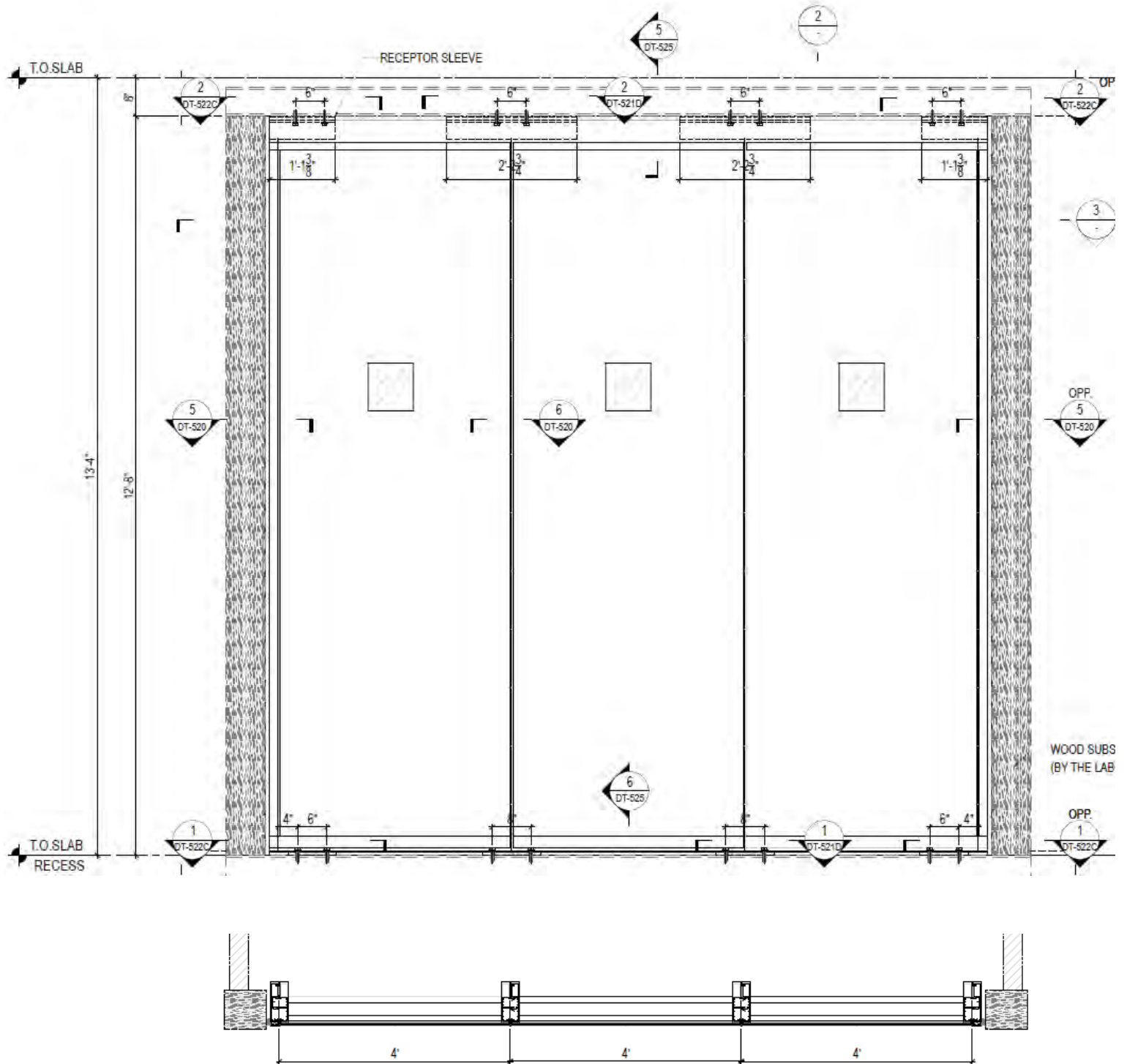
Mock Up 3 (Shop Drawing Specimen 6)



Mock Up 4 (Shop Drawing Specimen 7)



Mock Up 5 (Shop Drawing Specimen 8)



Mock Up 6 (Shop Drawing Specimen 9)

Overall Size:

Mock Ups 1,2, & 5:

- 147-1/2" W by 118-1/2" H

Mock Up 3:

- 49-3/4" Then 90° 145-3/4" W by 147-1/2" H

Mock Up 4

- 147-1/2" W by 165-1/2" H

Mock Up 6

- 147-1/2" W by 150-1/2" H

Rough Opening:

Mock Ups 1,2, & 5:

- 149-1/2" W by 120" H

Mock Up 3:

- 50-3/4" Then 90° 146-3/4" W by 149" H

Mock Up 4

- 149-1/2" W by 167" W

Mock Up 6

- 149-1/2" W by 152" H

Daylight Opening:

Mock Ups 1,2, & 5:

- 3X 45" W by 109-1/8" H

Mock Up 3:

- 2X 43-7/16" W by 138-1/8" H (@90)
- 1X 45" W by 138-1/8" H
- 1X 45" W by 36-3/8" H
- 1X 45" W by 101-3/4" H

Mock Up 4

- 3X 45" W by 156-1/8" H

Mock Up 6

- 3X 45" W by 141-1/8" H

Test Sequence:

Mock Ups 1:

1. Air Infiltration ASTM E283
2. TAS 202 @ +/-82.50 psf for 30 seconds
3. TAS 202 @ +/-110.00psf for 30 seconds
4. Water Infiltration ASTM E331
5. TAS 202-94 @ +/-165.00psf for 30 seconds
6. Disassembly Test ASTM F588
7. TAS 201/ASTM E1996 Large Missile Impacts (Level D)
8. TAS 203/ ASTM E1886 @ +/-110.00psf

Mock Up 2:

1. TAS 202 @ +/-82.50 psf for 30 seconds
2. TAS 202 @ +/-110.00psf for 30 seconds
3. TAS 202-94 @ +/-165.00psf for 30 seconds
4. TAS 201/ASTM E1996 Small Missile Impacts
5. TAS 203/ ASTM E1886 @ +/-110.00psf

Mock Ups 3&5:

1. Air Infiltration ASTM E283
2. TAS 202 @ +/-97.50 psf for 30 seconds
3. TAS 202 @ +/-130.00psf for 30 seconds
4. Water Infiltration ASTM E331
5. TAS 202-94 @ +/-195.00psf for 30 seconds
6. Disassembly Test ASTM F588
7. TAS 201/ASTM E1996 Small Missile Impacts
8. TAS 203/ ASTM E1886 @ +/-130.00psf

Mock Ups 4&6:

1. Air Infiltration ASTM E283
2. TAS 202 @ +/-131.25 psf for 30 seconds
3. TAS 202 @ +/-175.00psf for 30 seconds
4. Water Infiltration ASTM E331
5. TAS 202-94 @ +/-262.50psf for 30 seconds
6. Disassembly Test ASTM F588
7. TAS 201/ASTM E1996 Small Missile Impacts
8. TAS 203/ ASTM E1886 @ +/-175.00psf

Glass Composition:

(GL-101)- Laminated Glass

- 6mm Heat Strengthened Glass
- 1.53mm PVB Interlayer by Kuraray
- 6mm Heat Strengthened Glass

(GL-101M)- Laminated Glass

- 6mm Fully Tempered Glass
- 1.53mm PVB Interlayer by Kuraray
- 6mm Fully Tempered Glass

(GL-101B)- Laminated Glass

- 6mm Heat Strengthened Glass
- 2.28mm SGP Interlayer by Kuraray
- 6mm Heat Strengthened Glass

Glazing Sealant:

All Mock Ups:

- Dowsil 983 for structural glazing
- Dowsil 791 for weatherproofing

Perimeter Sealant:

All Mock Ups:

- Dowsil 791 for perimeter

Glass Bite:

Mock Up :

- 1-1/2" around the perimeter of the glass

Substrate:

Mock Ups 1-5:

- Jambs & Headers
 - o 2X 2" by 10" SYP Buck secured to 8" by 8" by 1/4" HSS
- Sill
 - o Shop Floor (Concrete Slab)

Mock Up 6

- Jambs
 - o 2X 2" by 10" SYP Buck secured to 8" by 8" by 1/4" HSS
- Sill
 - o 5/16" Thick by 15" by 3" Steel U Channel
- Header
 - o 8" by 8" by 1/4" HSS

Anchor Details:

Mock Ups 1&2:

- Screw Type: Dewalt 5/16" by 3-3/4" Ultracon Screw Hex Head Screw
- Jambs: Free
- Header: Cluster of 4 screws. @ ends 2-1/8" O.C. and cluster of 8 screws @ mullions @ 1-15/16" O.C.
- Sill : Cluster of 3 screws @ 5" O.C. @ end and Cluster of 5 screws @ 5" O.C. @ mullions

Mock Up 3:

- Screw Type: Dewalt 5/16" by 3-3/4" Ultracon Screw Hex Head Screw
- Jambs: Free
- Header: Cluster of 6 screws. @ ends and each side of the 90 degree corner @ 1-3/4" O.C. and cluster of 11 screws @ center mullions @ 1-3/4" O.C.
- Sill : Cluster of 4 screws @ 5" O.C. @ ends and on each side of the 90 degree corner and Cluster of 7 screws @ 5" O.C. @ mullions

Mock Up 4

- Screw Type: Dewalt 5/16" by 3-3/4" Ultracon Screw Hex Head Screw
- Jambs: Free
- Header: Cluster of screws. 8 @ ends @ 1-13/16" O.C. and cluster of 15 screws @ center mullions @ 1-13/16" O.C.
- Sill : Cluster of 5 screws @ 5" O.C. @ ends and Cluster of 9 screws @ 5" O.C. @ mullions

Mock Up 5

- Screw Type: Dewalt 5/16" by 3-3/4" Ultracon Screw Hex Head Screw
- Jambs: Free
- Header: Cluster of 6 screws. @ ends @ 2-3/16" O.C. and cluster of 12 screws @ center mullions @ 2-1/16" O.C
- Sill : Cluster of 4 screws @ 5" O.C. @ ends and Cluster of 8 screws @ 5" O.C. @ mullions

Mock Up 6

- Screw Type: 5-8-11" by 2-1/2 H.W.H Tapflex Bolt
- Jambs: Free
- Header: Cluster of 2 screws. @ ends @ 6" O.C. and cluster of 2 screws @ center mullions @ 6" O.C
- Sill : Cluster of 2 screws @ ends @ 6" O.C. and cluster of 2 screws @ 8" O.C. @ mullions

Reinforcements:

Mock Ups 1,2,5, &6:

- N/A

Mock Ups 3&4:

- Right side of mullion: 5/8" thick steel plate the length of the unit vertically

Frame& Panel Construction:

All Mock Ups

- Aluminum extrusions screwed together with assembly screws. The screw together panels then are connected with snap locks. Refer elevation and die drawings at end of report for complete details about the construction of unit.

Weatherstripping: (For type of material and more information about weatherstripping reference attached drawings)

All Mock Ups :

- 2X GA0516 was located vertically at the jambs and all mullions on the exterior side
- GA04102 was located vertically at the jambs and all mullions on the interior side and on the head of the starter track
- GA05102 and GA011** was located on the back snap of the header receptor
- GA2106 was located on the front side of the header receptor
- GA07149 was located on the bottom of the panel to cover the sill track
- Dowsil 791 was used to seal the end dams, panels to starter track and panels to head receptor. (Reference attached drawings for more details about the location of the silicone.

Hardware:

All Mock Ups :

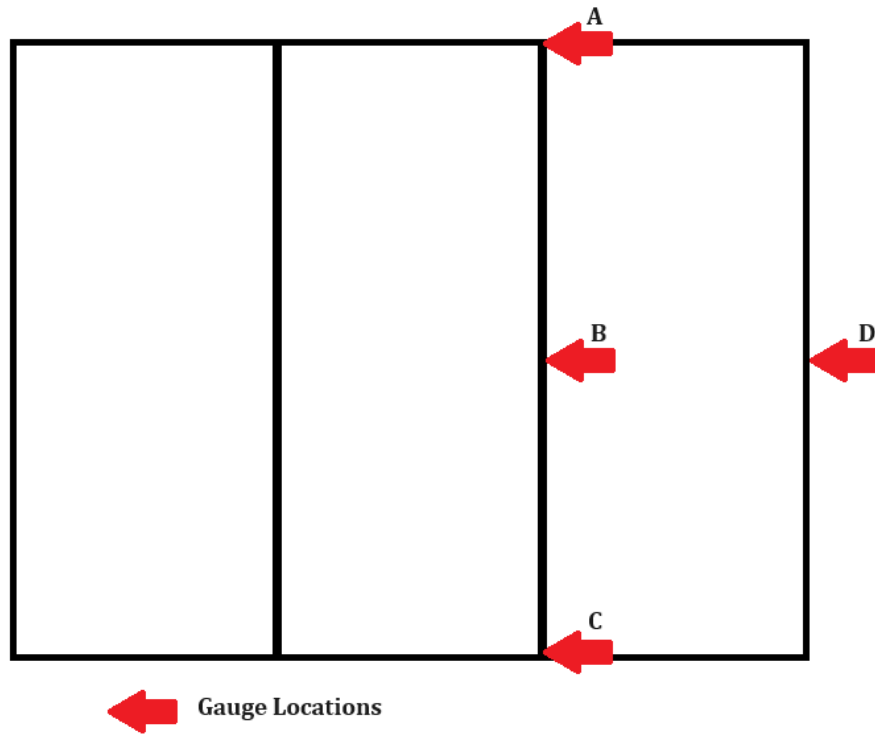
- N/A

Weepholes:

All Mock Ups:

- N/A

TEST RESULTS



Mock Up 1

STATIC LOAD DATA SHEET							Design Pressure Positive	Design Pressure Negative	T= 91°F			
							110.00	110.00				
					A		B		C		D	
Load Factor	Positive/ Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
0.5TL	Positive	82.500	15.865	30.000	0.688	0.000	0.688	0.000	0.000	0.000		
0.5TL	Negative	82.500	15.865	30.000	0.438	0.125	0.500	0.000	0.000	0.000		
DP	Positive	110.000	21.154	30.000	1.063	0.000	0.938	0.000	0.000	0.000		
DP	Negative	110.000	21.154	30.000	0.625	0.000	0.750	0.063	0.000	0.000		
TL=1.5DP	Positive	165.000	31.731	30.000	1.250	0.063	1.125	0.063	0.000	0.000		
TL=1.5DP	Negative	165.000	31.731	30.000	0.750	0.063	1.000	0.063	0.000	0.000		

Air Infiltration Test Results

Test Pressure (psf)	Measured Flow (cfm/ft ²)	Allowed Flow (cfm/ft ²)
6.24	0.03	0.06

Water Infiltration Test Result

Test Pressure (psf)	Test Duration (min)	Water Leakage (in ³ /sec)
+16.50 (3.17 H₂O)	15	0

Disassembly Test

Remove from the window test specimen all screws, glazing beads, and any other members or other mechanical fasteners that can be removed readily from the exterior within a time limit of 5 min using the Disassembly Test Tools List. Removal of the indicated parts shall be done carefully so as not to cause collateral damage to the specimen.

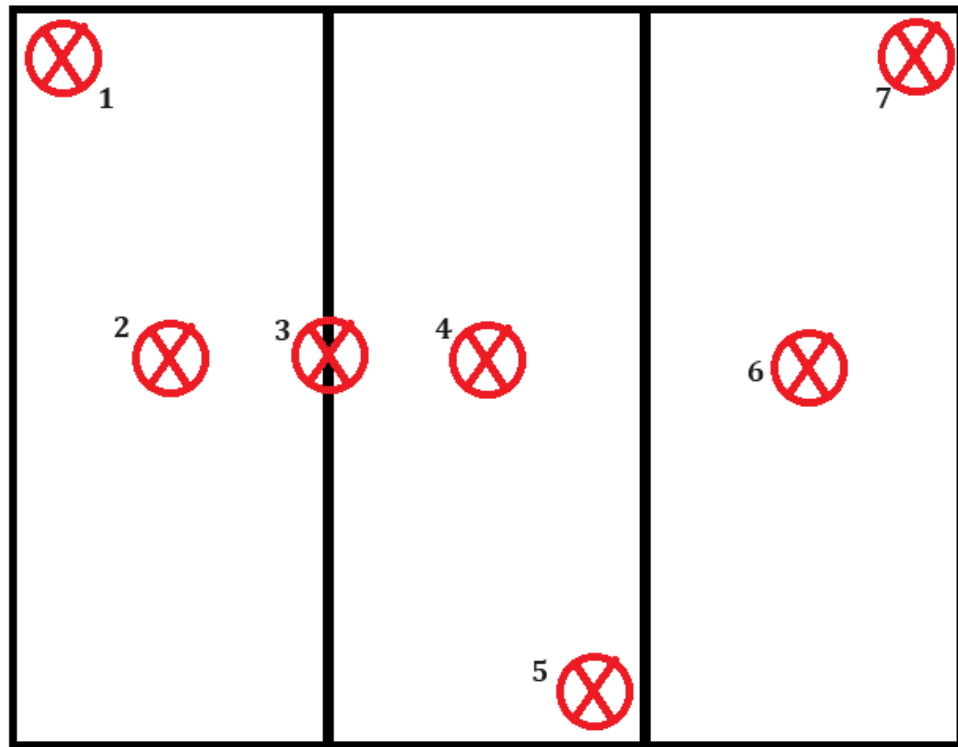
Disassembly Test Tools

*A spatula, putty knife or other non-cutting tool with a thin blade.

**Non powered straight 6" Phillips screw driver

***Standard Slot type pliers 6-7" length

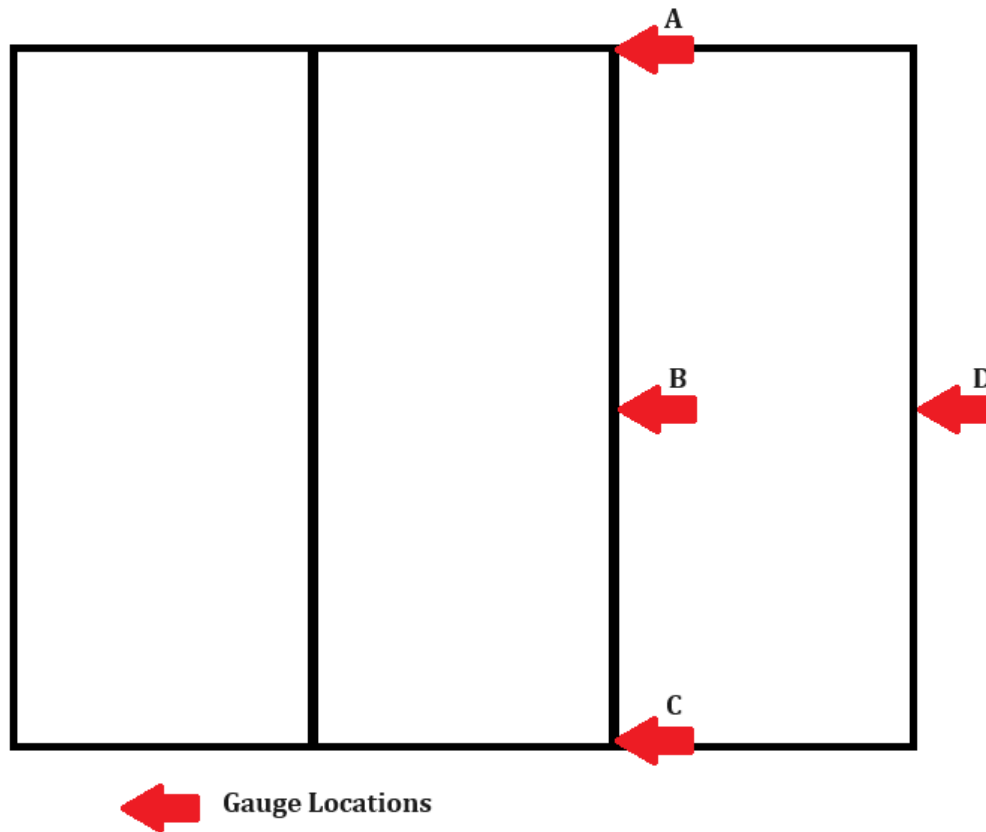
PASS/FAIL:PASS



 Large Missile Impact Locations

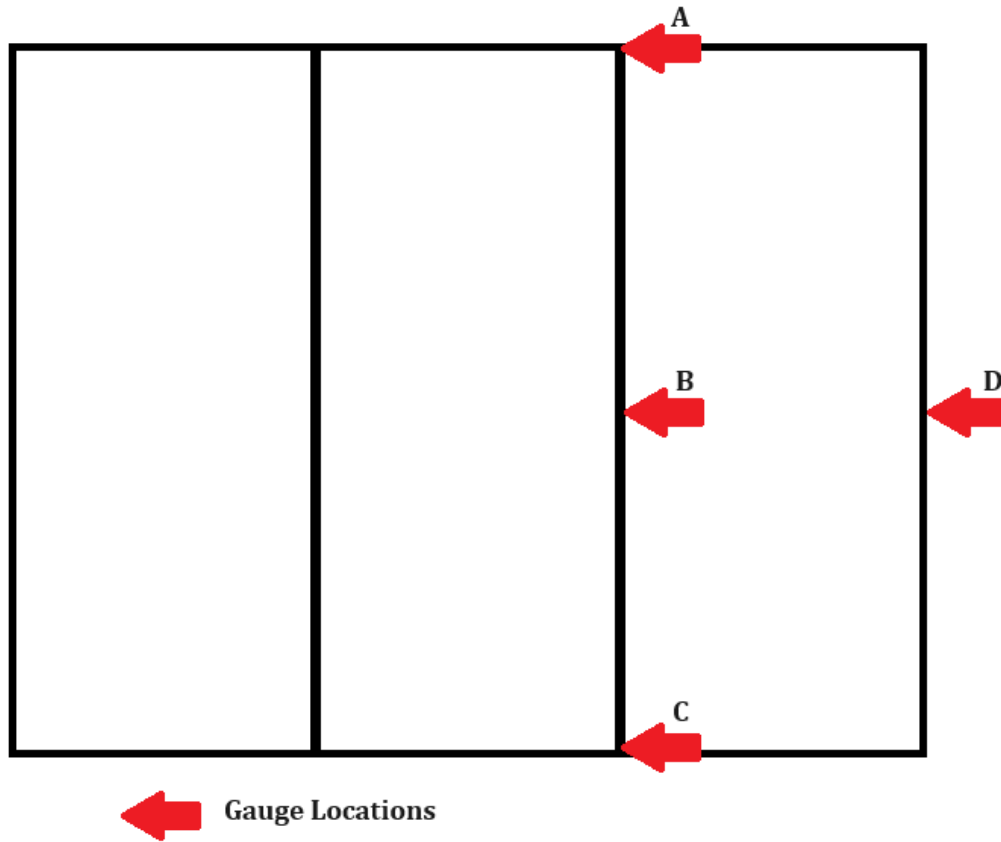
Mock Up 1

LARGE MISSILE IMPACT DATA SHEET					
T= 91 °F	Location				Results
Shot	Area	X (in.)	Y (in.)	Keyence (ft/s)	Pass/Fail
1	Corner	9	103	50	Pass
2	Center	28	61	50	Pass
3	Mullion	50	61	50	Pass
4	Center	74	60	50	Pass
5	Corner	88	11	50	Pass
6	Center	122	60	50	Pass
7	Corner	138	107	50	Pass
Notes: 1. Large Missile Velocity 50 ft/s Measurements taken from bottom left corner. 2. Impacted with a 9.05 lb., 96 "long, S4S, 2x4, of No. 2 Southern Pine lumber. 3. Impact location is given on Cartesian Grid, right (x) and up (y) from lower left hand corner. 4. The location description is relative to the product assembly i.e. Corner, Center, and Left Center. 5. Impact velocity measured with a Keyence KV-16DR, verified by the video method.					



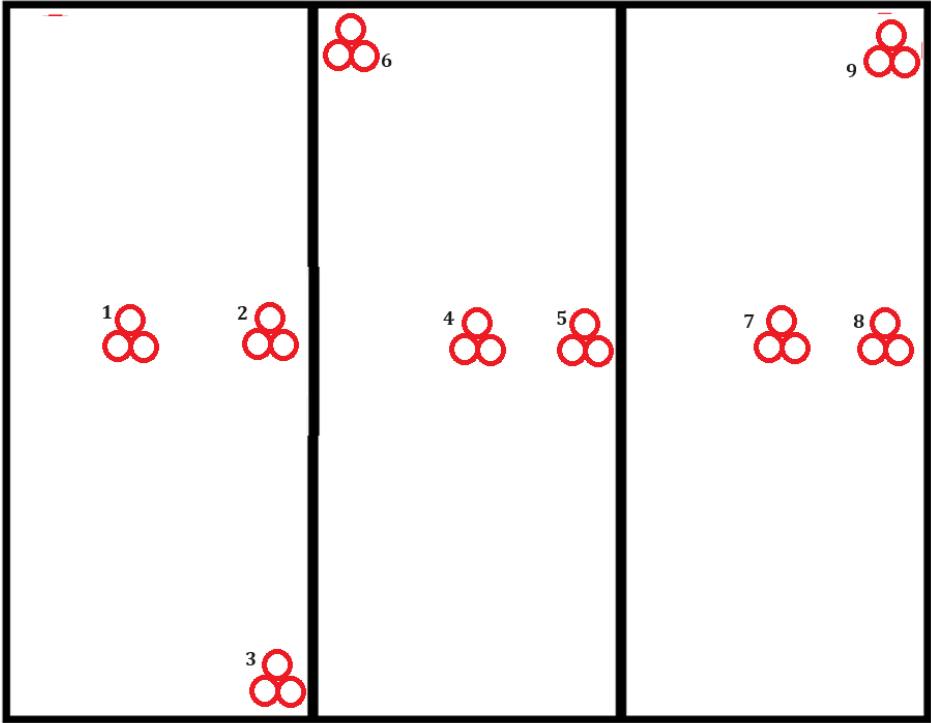
Mock Up 1

CYCLIC LOAD DATA SHEET					Pd psf		T= °F						
					High	Low							
					110.00	110.00							
Positive Pressure													
Cycles	Load Range	High Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		Avg time per Cycle
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
3500	20% to 50%	55	4.23	10.58	0.750	0.063	0.500	0.063	0.063	0.000	0.188	0.000	2.7
300	0% to 60%	66	0	12.69	0.813	0.000	0.625	0.000	0.000	0.000	0.250	0.063	2.1
600	50% to 80%	88	10.58	16.92	0.875	0.063	0.750	0.125	0.000	0.000	0.313	0.000	1.8
100	30% to 100%	110	6.35	21.15	1.125	0.063	1.000	0.063	0.063	0.000	0.375	0.063	2.4
Negative Pressure													
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		Avg time per Cycle
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
50	30% to 100%	110	6.35	21.15	0.688	0.063	1.063	0.000	0.063	0.000	0.375	0.063	3.0
1050	50% to 80%	88	10.58	16.92	0.625	0.000	0.813	0.000	0.063	0.000	0.313	0.000	2.5
50	0% to 60%	66	0	12.69	0.500	0.000	0.625	0.000	0.000	0.000	0.250	0.000	3.0
3350	20% to 50%	55	4.23	10.58	0.438	0.000	0.563	0.000	0.000	0.000	0.188	0.000	2.4



Mock Up 2

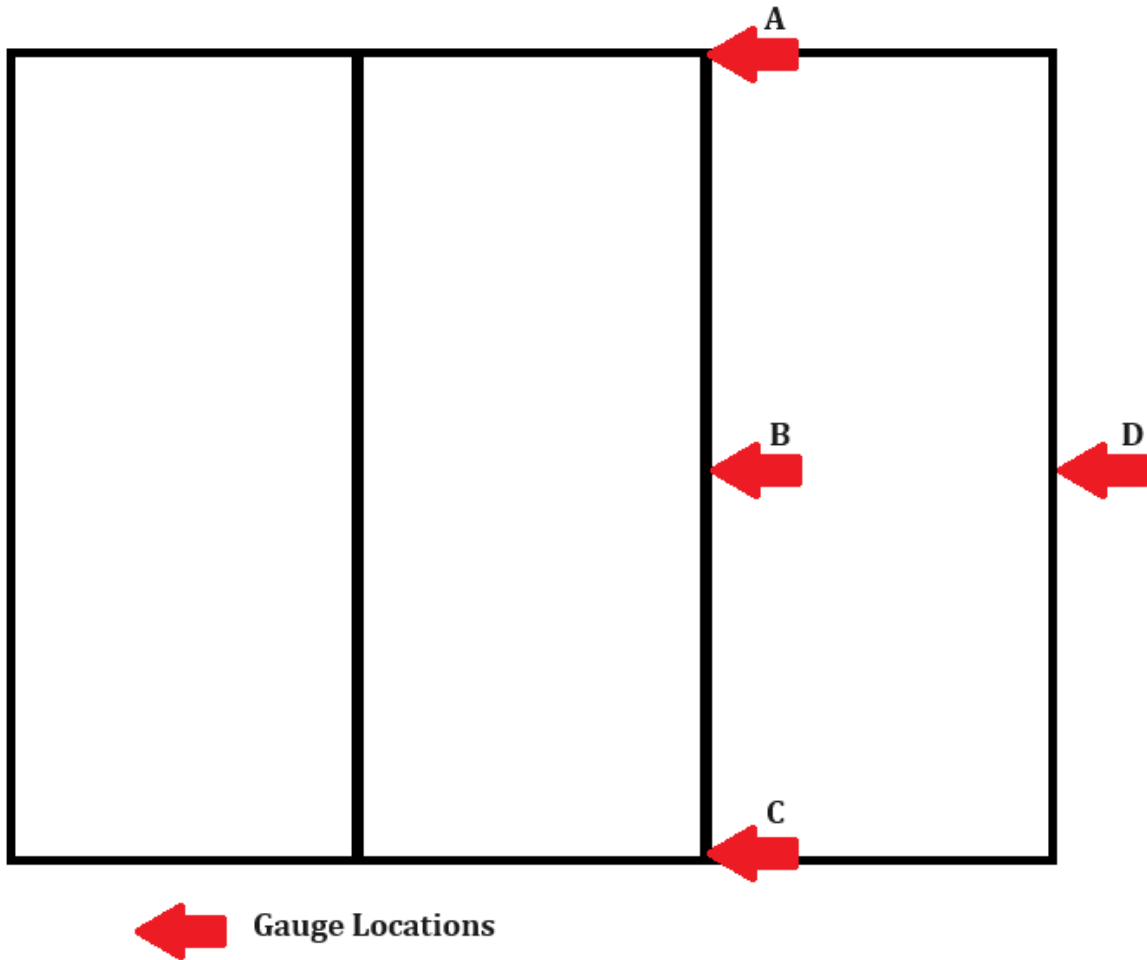
STATIC LOAD DATA SHEET					Design Pressure		T= 89°F					
					Positive		Negative					
					110.00		110.00					
					A		B		C		D	
Load Factor	Positive/ Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
0.5TL	Positive	82.500	15.865	30.000	0.688	0.000	0.625	0.000	0.000	0.000	0.313	0.000
0.5TL	Negative	82.500	15.865	30.000	0.438	0.063	0.500	0.000	0.000	0.000	0.188	0.000
DP	Positive	110.000	21.154	30.000	0.938	0.000	0.813	0.000	0.063	0.000	0.500	0.000
DP	Negative	110.000	21.154	30.000	0.625	0.000	0.750	0.000	0.063	0.000	0.313	0.000
TL=1.5DP	Positive	165.000	31.731	30.000	1.188	0.063	0.938	0.063	0.063	0.000	0.750	0.000
TL=1.5DP	Negative	165.000	31.731	30.000	0.750	0.063	1.000	0.063	0.063	0.000	0.375	0.063



 Small Missile Impact Locations

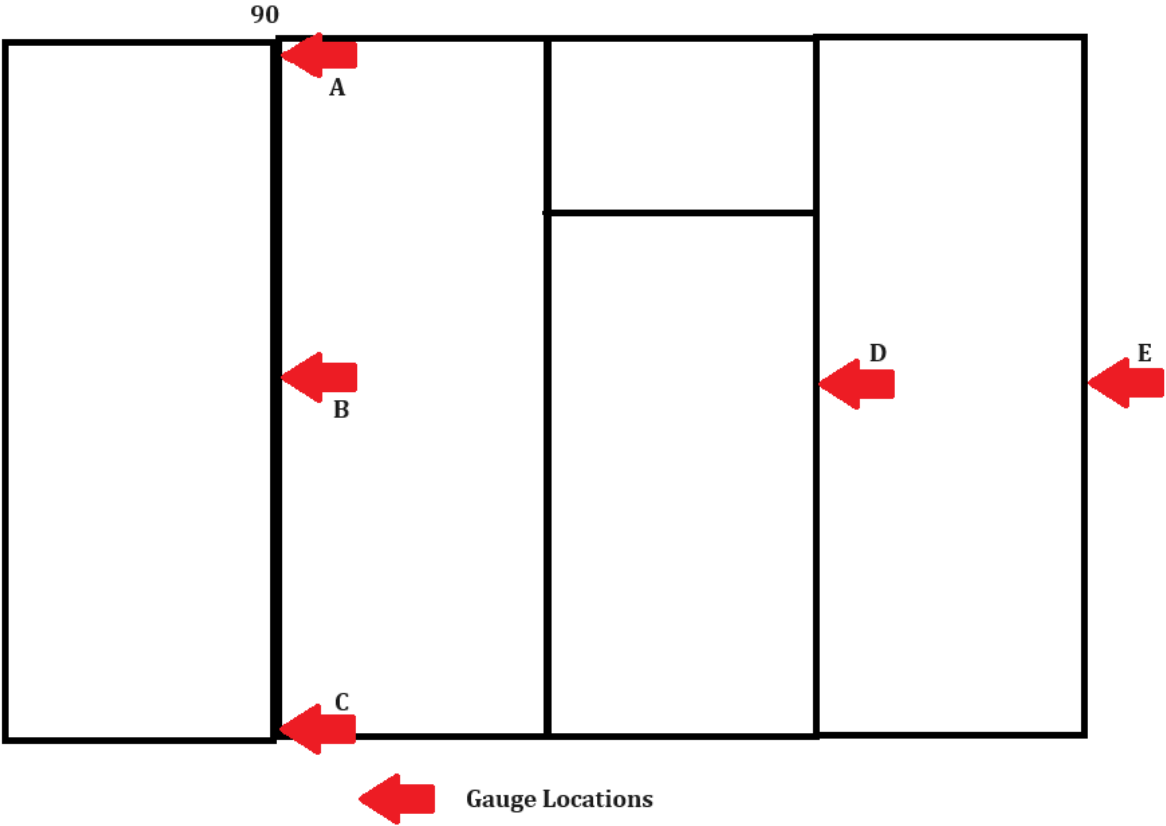
Mock Up 2

SMALL MISSILE IMPACT DATA SHEET					
	Location				Results
	Shot	Area	X (in.)	Y (in.)	Pass/Fail
	1	Center	37	64	Pass
	2	Center	17	64	Pass
	3	Corner	41	17	Pass
	4	Center	73	56	Pass
	5	Center	93	56	Pass
	6	Corner	60	14	Pass
	7	Center	120	63	Pass
	8	Center	140	63	Pass
	9	Corner	140	12	Pass
Notes: 130 ft/s					



Mock Up 2

CYCLIC LOAD DATA SHEET					Pd psf		T= 89°F						
					High	Low							
					110.00	110.00							
Positive Pressure													
Cycles	Load Range	High Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		Avg time per Cycle (Seconds)
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
3500	20% to 50%	55	4.23	10.58	0.750	0.000	0.500	0.000	0.000	0.000	0.188	0.000	2.1
300	0% to 60%	66	0	12.69	0.875	0.000	0.625	0.000	0.000	0.000	0.250	0.000	2.6
600	50% to 80%	88	10.58	16.92	0.938	0.063	0.750	0.063	0.000	0.000	0.313	0.000	3.0
100	30% to 100%	110	6.35	21.15	1.125	0.063	1.000	0.063	0.063	0.000	0.375	0.063	2.8
Negative Pressure													
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		Avg time per Cycle (Seconds)
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
50	30% to 100%	110	6.35	21.15	0.688	0.063	1.063	0.063	0.063	0.000	0.375	0.063	3.000
1050	50% to 80%	88	10.58	16.92	0.625	0.000	0.813	0.063	0.063	0.000	0.313	0.000	2.700
50	0% to 60%	66	0	12.69	0.500	0.000	0.625	0.000	0.000	0.000	0.250	0.000	2.100
3350	20% to 50%	55	4.23	10.58	0.438	0.000	0.563	0.000	0.000	0.000	0.188	0.000	1.900



Mock Up 3

STATIC LOAD DATA SHEET						Design Pressure Positive	Design Pressure Negative	T= °F							
						130.00	130.00								
					A		B		C		D		E		
Load Factor	Positive/ Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	
0.5TL	Positive	97.500	18.750	30.000	0.000	0.000	0.000	0.000	0.000	0.000	0.750		0.750	0.000	
0.5TL	Negative	97.500	18.750	30.000	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.000	0.625	0.000	
DP	Positive	130.000	25.000	30.000	0.063	0.000	0.063	0.000	0.000	0.000	0.875	0.000	0.875	0.000	
DP	Negative	130.000	25.000	30.000	0.063	0.000	0.063	0.000	0.000	0.000	0.813	0.063	0.813	0.063	
TL=1.5DP	Positive	195.000	37.500	30.000	0.125	0.000	0.125	0.000	0.000	0.000	1.375	0.063	1.125	0.063	
TL=1.5DP	Negative	195.000	37.500	30.000	0.125	0.000	0.125	0.000	0.000	0.000	1.000	0.063	1.000	0.063	

Air Infiltration Test Results

Test Pressure (psf)	Measured Flow (cfm/ft ²)	Allowed Flow (cfm/ft ²)
6.24	0.04	0.06

Water Infiltration Test Result

Test Pressure (psf)	Test Duration (min)	Water Leakage (in ³ /sec)
+19.50 (3.75 H₂O)	15	0

Disassembly Test

Remove from the window test specimen all screws, glazing beads, and any other members or other mechanical fasteners that can be removed readily from the exterior within a time limit of 5 min using the Disassembly Test Tools List. Removal of the indicated parts shall be done carefully so as not to cause collateral damage to the specimen.

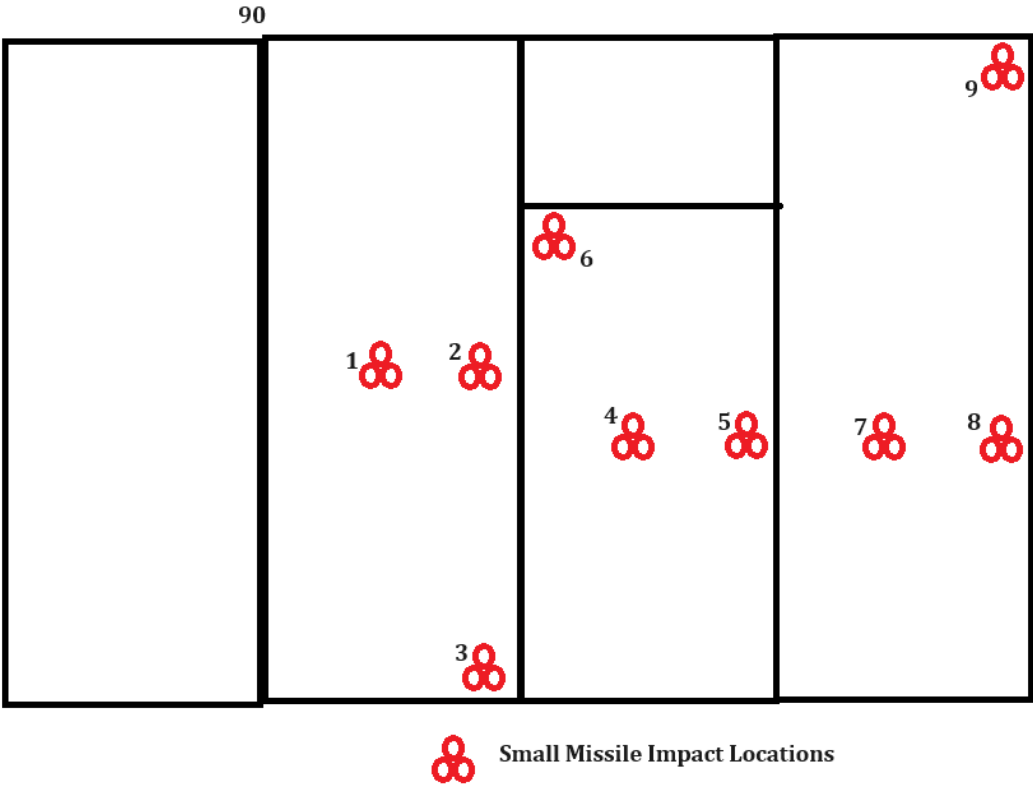
Disassembly Test Tools

*A spatula, putty knife or other non-cutting tool with a thin blade.

**Non powered straight 6" Phillips screw driver

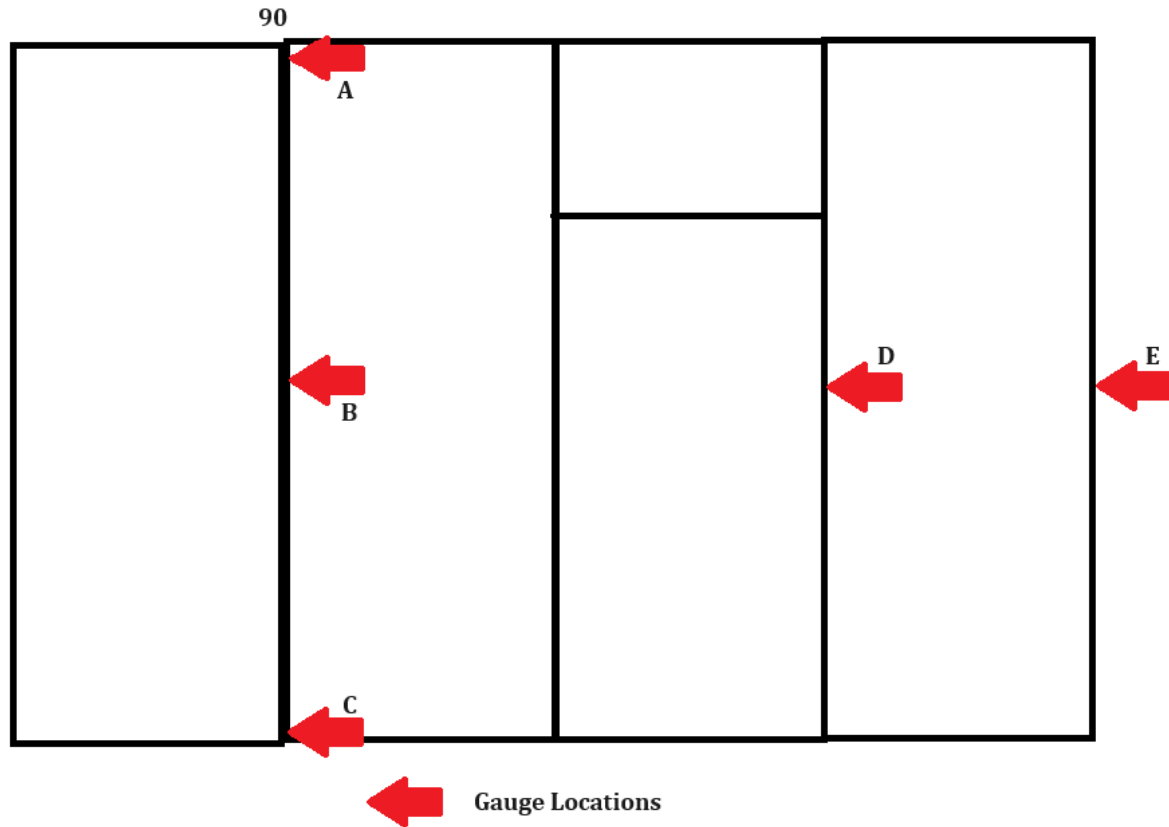
***Standard Slot type pliers 6-7" length

PASS/FAIL: PASS



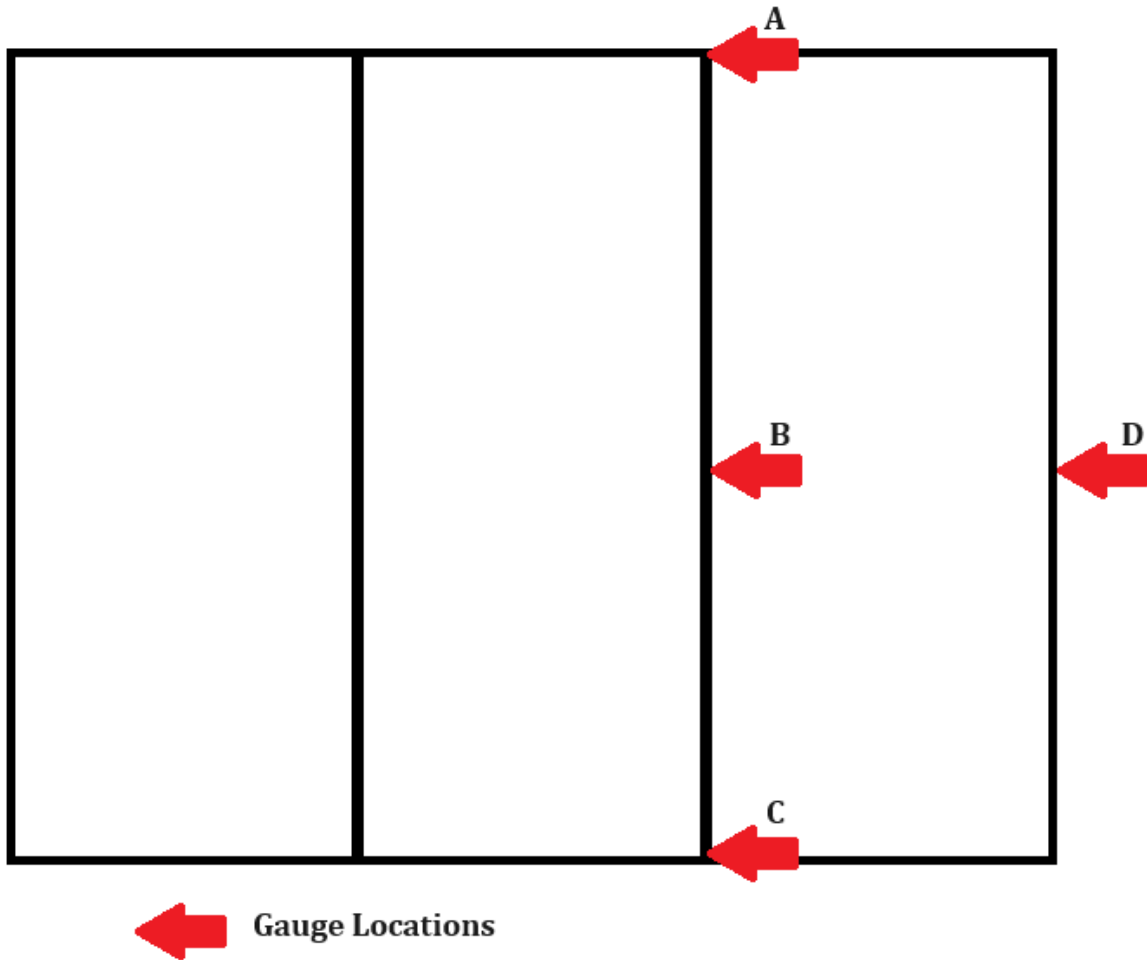
Mock Up 3

SMALL MISSILE IMPACT DATA SHEET					
	Location				Results
	Shot	Area	X (in.)	Y (in.)	Pass/Fail
	1	Center	24	76	Pass
	2	Corner	42	76	Pass
	3	Corner	42	15	Pass
	4	Center	60	70	Pass
	5	Center	73	70	Pass
	6	Corner	89	96	Pass
	7	Center	139	70	Pass
	8	Center	138	70	Pass
	9	Corner	138	132	Pass
Notes: 130 ft/s					



Mock Up 3

CYCLIC LOAD DATA SHEET					Pd psf		T= 88 °F								
					High	Low									
					130.00	130.00									
Positive Pressure															
Cycles	Load Range	High Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		E		Avg time per Cycle (Seconds)
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
3500	20% to 50%	65	5.00	12.50	0.000	0.000	0.000	0.000	0.000	0.000	0.438	0.000	0.438	0.000	2.7
300	0% to 60%	78	0	15.00	0.000	0.000	0.000	0.000	0.000	0.000	0.563	0.000	0.563	0.000	2.9
600	50% to 80%	104	12.50	20.00	0.063	0.000	0.063	0.000	0.000	0.000	0.813	0.000	0.813	0.000	3.0
100	30% to 100%	130	7.50	25.00	0.063	0.000	0.063	0.000	0.063	0.000	0.875	0.063	0.875	0.063	2.1
Negative Pressure															
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		E		Avg time per Cycle (Seconds)
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
50	30% to 100%	130	7.50	25.00	0.063	0.000	0.063	0.000	0.063	0.000	0.813	0.063	0.813	0.063	2.1
1050	50% to 80%	104	12.50	20.00	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.000	0.625	0.000	1.8
50	0% to 60%	78	0	15.00	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.500	0.000	3.0
3350	20% to 50%	65	5.00	12.50	0.000	0.000	0.000	0.000	0.000	0.000	0.438	0.000	0.438	0.000	2.7



Mock Up 4

STATIC LOAD DATA SHEET					Design Pressure Positive		Design Pressure Negative		T= 90°F			
					175.00		175.00					
					A		B		C		D	
Load Factor	Positive/ Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
0.5TL	Positive	131.250	25.240	30.000	0.750	0.063	0.813	0.000	0.063	0.000	0.750	0.000
0.5TL	Negative	131.250	25.240	30.000	0.500	0.000	0.563	0.000	0.000	0.000	0.563	0.000
DP	Positive	175.000	33.654	30.000	1.000	0.438	1.000	0.063	0.125	0.000	1.000	0.063
DP	Negative	175.000	33.654	30.000	0.563	0.125	1.063	0.063	0.125	0.000	1.063	0.063
TL=1.5DP	Positive	262.500	50.481	30.000	1.250	0.063	1.125	0.063	0.125	0.000	1.125	0.063
TL=1.5DP	Negative	262.500	50.481	30.000	0.813	0.063	0.750	0.063	0.125	0.000	0.750	0.063

Air Infiltration Test Results

Test Pressure (psf)	Measured Flow (cfm/ft ²)	Allowed Flow (cfm/ft ²)
6.24	0.04	0.06

Water Infiltration Test Result

Test Pressure (psf)	Test Duration (min)	Water Leakage (in ³ /sec)
+26.25 (5.05 H₂O)	15	0

Disassembly Test

Remove from the window test specimen all screws, glazing beads, and any other members or other mechanical fasteners that can be removed readily from the exterior within a time limit of 5 min using the Disassembly Test Tools List. Removal of the indicated parts shall be done carefully so as not to cause collateral damage to the specimen.

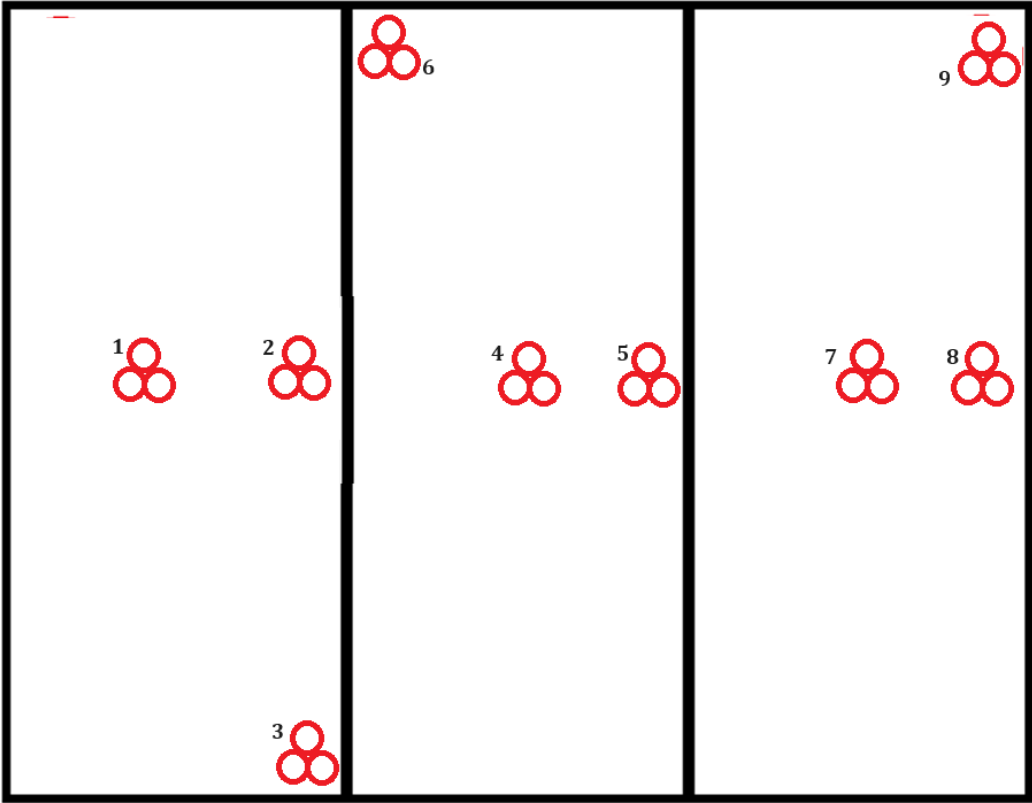
Disassembly Test Tools

*A spatula, putty knife or other non-cutting tool with a thin blade.

**Non powered straight 6" Phillips screw driver

***Standard Slot type pliers 6-7" length

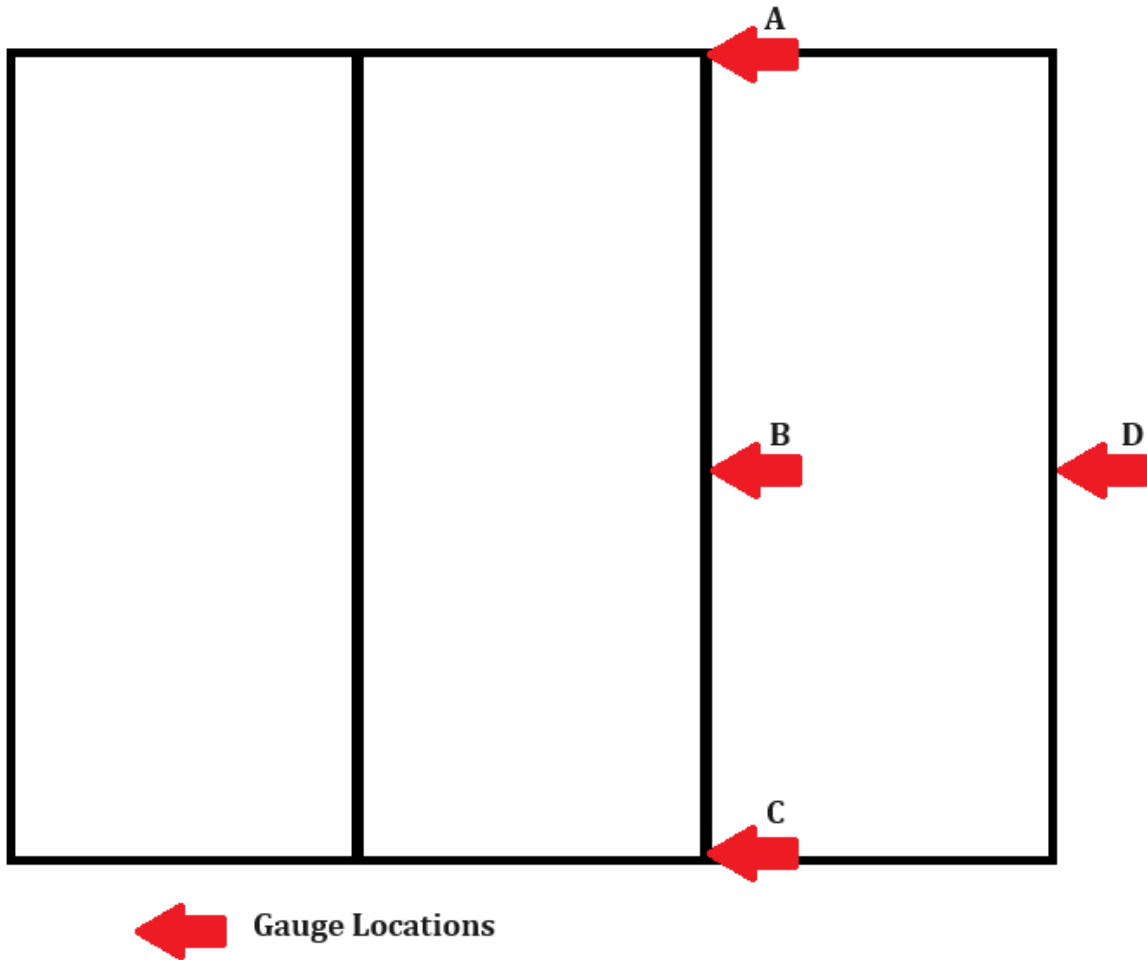
PASS/FAIL:PASS



 Small Missile Impact Locations

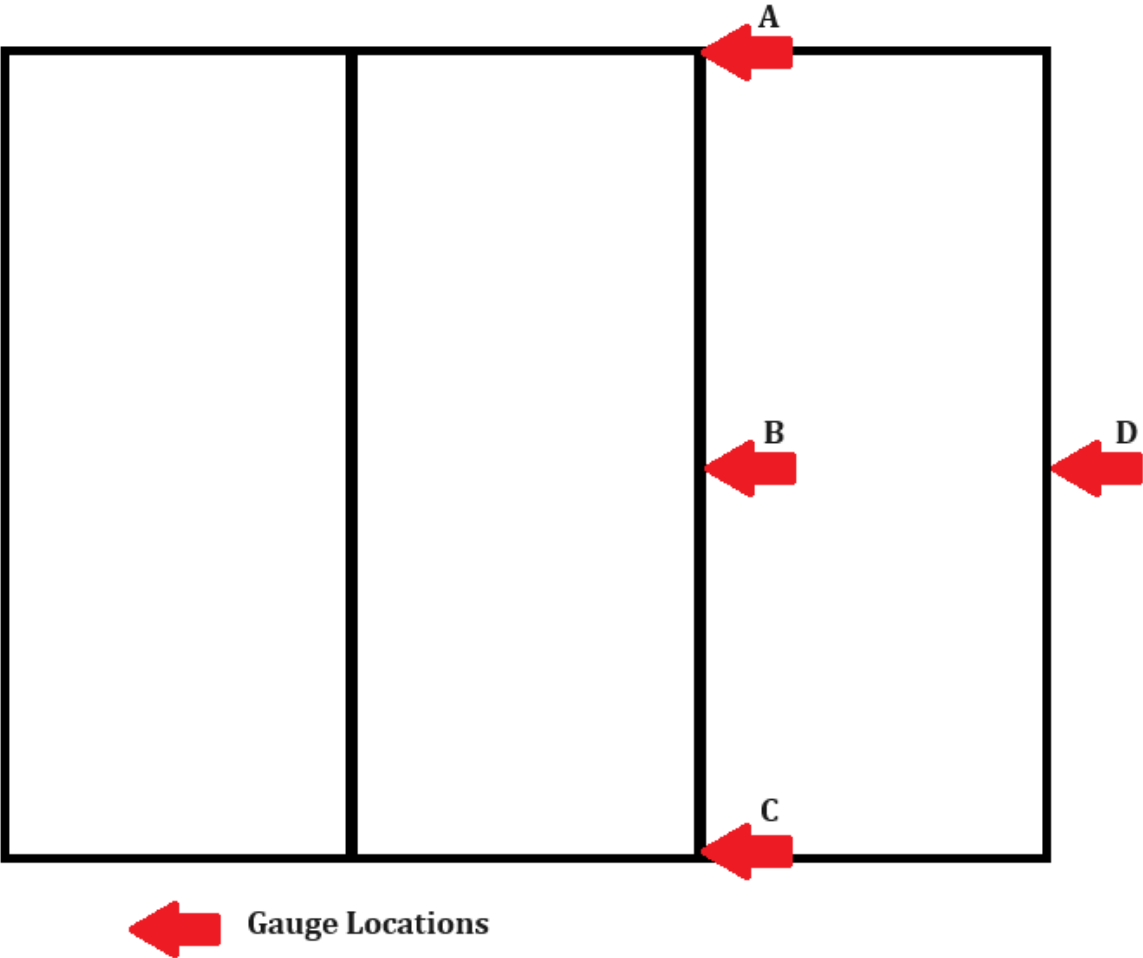
Mock Up 4

SMALL MISSILE IMPACT DATA SHEET					
		Location			Results
	Shot	Area	X (in.)	Y (in.)	Pass/Fail
	1	Center	26	61	Pass
	2	Center	41	61	Pass
	3	Corner	41	15	Pass
	4	Center	71	61	Pass
	5	Center	91	61	Pass
	6	Corner	56	103	Pass
	7	Center	121	61	Pass
	8	Center	140	61	Pass
	9	Corner	140	103	Pass
Notes: 130 ft/s					



Mock Up 4

CYCLIC LOAD DATA SHEET					Pd psf		T= 90 °F						
					High	Low							
					175.00	175.00							
Positive Pressure													
Cycles	Load Range	High Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		Avg time per Cycle (Seconds)
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
3500	20% to 50%	87.5	6.73	16.83	0.500	0.000	0.375	0.000	0.000	0.000	0.375	0.000	2.6
300	0% to 60%	105	0	20.19	0.625	0.000	0.563	0.000	0.000	0.000	0.563	0.000	2.1
600	50% to 80%	140	16.83	26.92	0.813	0.000	0.750	0.000	0.000	0.000	0.750	0.000	3.0
100	30% to 100%	175	10.10	33.65	1.000	0.063	0.875	0.063	0.063	0.000	0.875	0.063	1.9
Negative Pressure													
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		Avg time per Cycle (Seconds)
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
50	30% to 100%	175	10.10	33.65	0.625	0.063	0.750	0.063	0.063	0.000	0.750	0.063	2.7
1050	50% to 80%	140	16.83	26.92	0.500	0.000	0.563	0.000	0.000	0.000	0.563	0.000	2.1
50	0% to 60%	105	0	20.19	0.375	0.000	0.500	0.063	0.000	0.000	0.438	0.000	2.2
3350	20% to 50%	87.5	6.73	16.83	0.313	0.000	0.438	0.000	0.000	0.000	0.250	0.000	3.0



Mock Up 5

STATIC LOAD DATA SHEET						Design Pressure Positive	Design Pressure Negative	T= °F				
						130.00	130.00					
					A		B		C		D	
Load Factor	Positive/ Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
0.5TL	Positive	97.500	18.750	30.000	0.875	0.063	0.750	0.000	0.125	0.000	0.750	0.063
0.5TL	Negative	97.500	18.750	30.000	0.438	0.000	0.375	0.000	0.125	0.000	0.375	0.000
DP	Positive	130.000	25.000	30.000	1.125	0.000	0.875	0.000	0.188	0.000	0.875	0.000
DP	Negative	130.000	25.000	30.000	0.563	0.063	0.500	0.000	0.188	0.000	0.500	0.000
TL=1.5DP	Positive	195.000	37.500	30.000	1.500	0.000	1.125	0.000	0.250	0.000	1.125	0.000
TL=1.5DP	Negative	195.000	37.500	30.000	0.750	0.000	0.625	0.000	0.188	0.000	0.625	0.000

Air Infiltration Test Results

Test Pressure (psf)	Measured Flow (cfm/ft ²)	Allowed Flow (cfm/ft ²)
6.24	0.03	0.06

Water Infiltration Test Result

Test Pressure (psf)	Test Duration (min)	Water Leakage (in ³ /sec)
+19.50 (3.75 H₂O)	15	0

Disassembly Test

Remove from the window test specimen all screws, glazing beads, and any other members or other mechanical fasteners that can be removed readily from the exterior within a time limit of 5 min using the Disassembly Test Tools List. Removal of the indicated parts shall be done carefully so as not to cause collateral damage to the specimen.

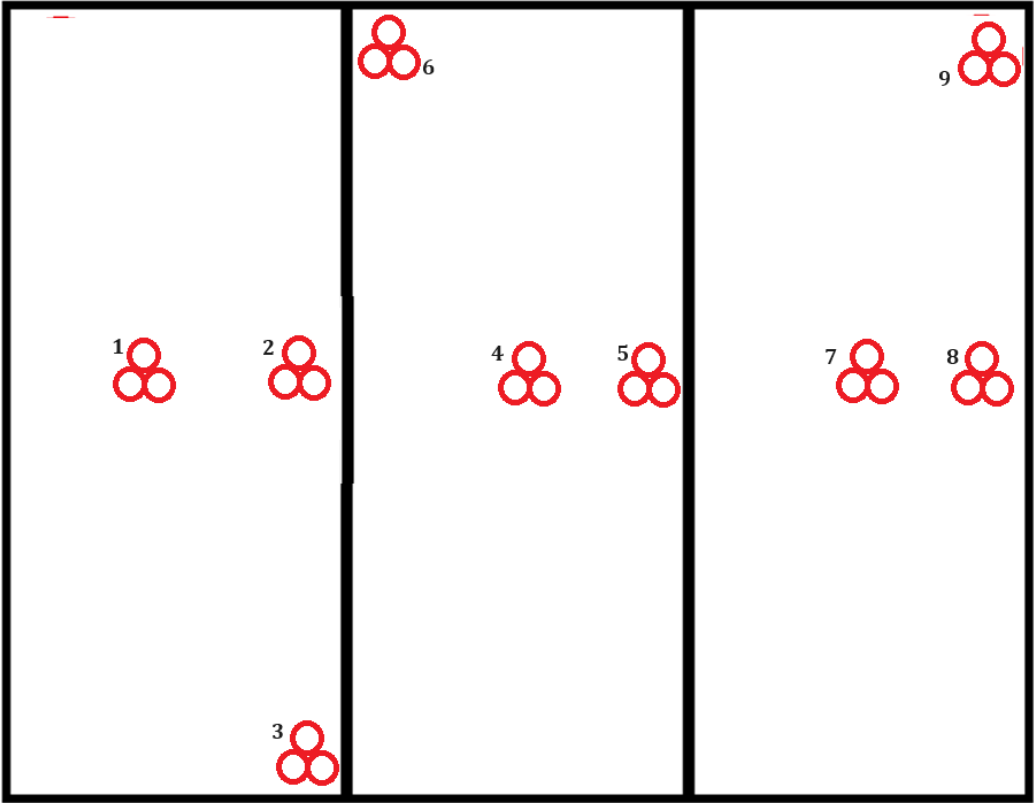
Disassembly Test Tools

*A spatula, putty knife or other non-cutting tool with a thin blade.

**Non powered straight 6" Phillips screw driver

***Standard Slot type pliers 6-7" length

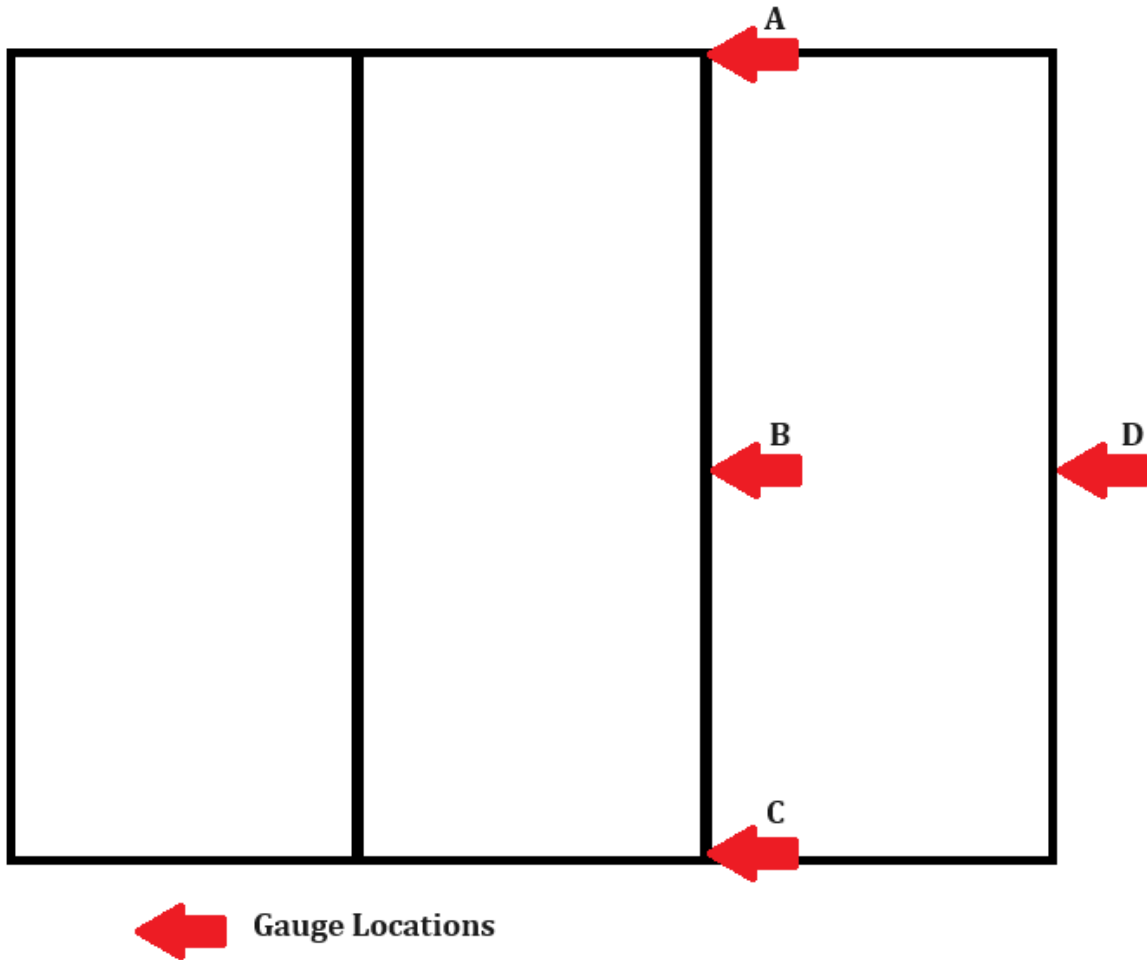
PASS/FAIL: PASS



Small Missile Impact Locations

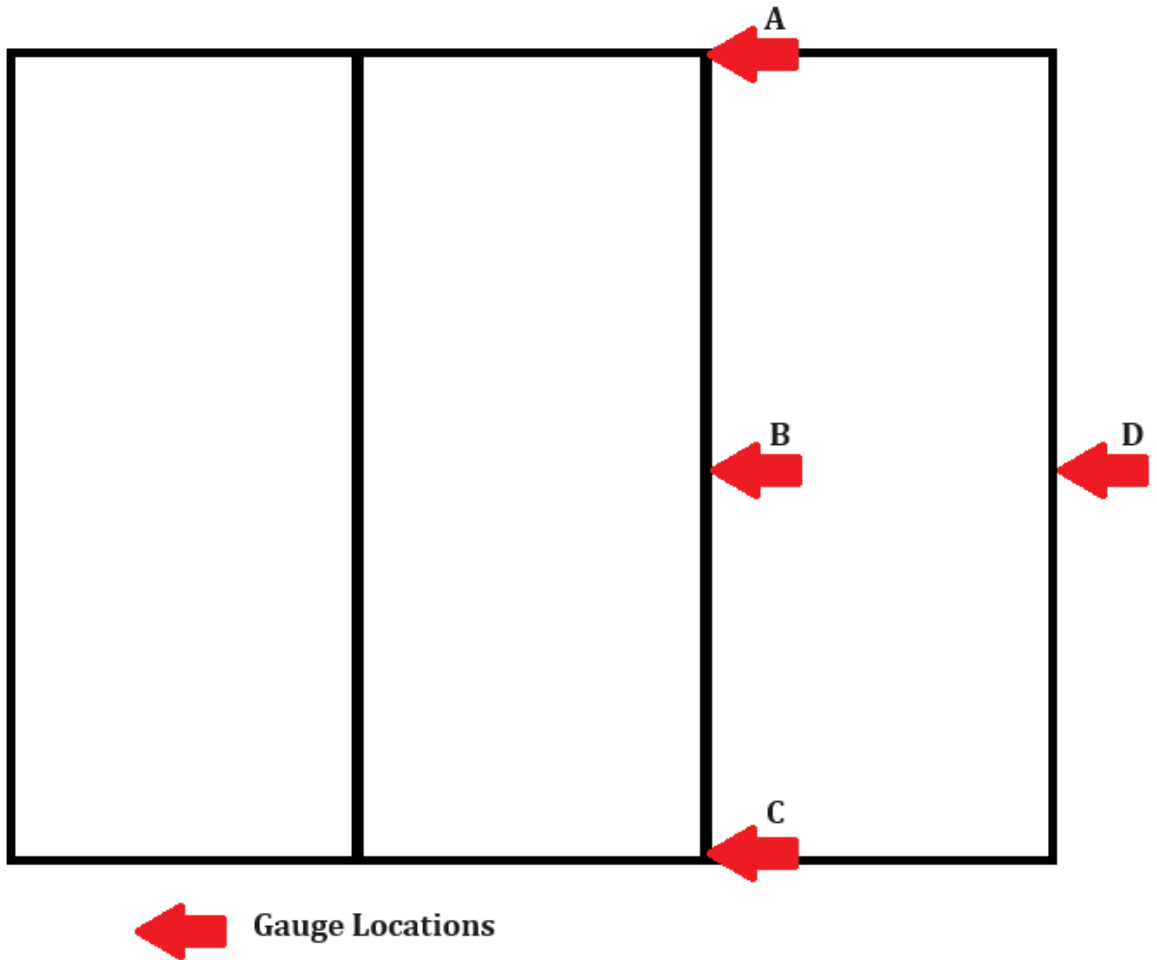
Mock Up 5

SMALL MISSILE IMPACT DATA SHEET					
		Location			Results
	Shot	Area	X (in.)	Y (in.)	Pass/Fail
	1	Center	19	87	Pass
	2	Center	40	85	Pass
	3	Corner	37	19	Pass
	4	Center	66	87	Pass
	5	Center	83	85	Pass
	6	Corner	66	150	Pass
	7	Center	119	79	Pass
	8	Center	140	77	Pass
	9	Corner	138	145	Pass
Notes: 130 ft/s					



Mock Up 5

CYCLIC LOAD DATA SHEET						Pd psf		T= 91°F					
						High	Low						
						130.00	130.00						
Positive Pressure													
Cycles	Load Range	High Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		Avg time per Cycle (Seconds)
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
3500	20% to 50%	65	5.00	12.50	0.500	0.000	0.438	0.000	0.000	0.000	0.438	0.000	2.1
300	0% to 60%	78	0	15.00	0.688	0.000	0.563	0.000	0.063	0.000	0.563	0.000	3.0
600	50% to 80%	104	12.50	20.00	0.938	0.000	0.750	0.000	0.063	0.000	0.750	0.000	2.6
100	30% to 100%	130	7.50	25.00	1.125	0.063	0.875	0.063	0.125	0.000	0.875	0.000	2.2
Negative Pressure													
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		Avg time per Cycle (Seconds)
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
50	30% to 100%	130	7.50	25.00	0.625	0.063	0.563	0.063	0.063	0.000	0.563	0.000	3.0
1050	50% to 80%	104	12.50	20.00	0.563	0.000	0.438	0.000	0.000	0.000	0.438	0.000	2.7
50	0% to 60%	78	0	15.00	0.375	0.000	0.313	0.000	0.000	0.000	0.313	0.000	2.1
3350	20% to 50%	65	5.00	12.50	0.313	0.000	0.250	0.000	0.000	0.000	0.250	0.000	2.6



Mock Up 6

STATIC LOAD DATA SHEET						Design Pressure Positive	Design Pressure Negative	T= °F				
						175.00	175.00					
					A		B		C		D	
Load Factor	Positive/ Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
0.5TL	Positive	131.250	25.240	30.000	0.813	0.000	0.938	0.000	0.125	0.000	0.750	0.000
0.5TL	Negative	131.250	25.240	30.000	0.500	0.000	0.375	0.000	0.125	0.000	0.250	0.000
DP	Positive	175.000	33.654	30.000	1.125	0.063	1.063	0.000	0.188	0.000	0.875	0.000
DP	Negative	175.000	33.654	30.000	0.750	0.063	0.500	0.000	0.188	0.000	0.375	0.000
TL=1.5DP	Positive	262.500	50.481	30.000	1.313	0.063	1.313	0.063	0.250	0.000	1.125	0.000
TL=1.5DP	Negative	262.500	50.481	30.000	0.875	0.000	0.688	0.063	0.250	0.000	0.500	0.000

Air Infiltration Test Results

Test Pressure (psf)	Measured Flow (cfm/ft ²)	Allowed Flow (cfm/ft ²)
6.24	0.05	0.06

Water Infiltration Test Result

Test Pressure (psf)	Test Duration (min)	Water Leakage (in ³ /sec)
+26.25 (5.05 H₂O)	15	0

Disassembly Test

Remove from the window test specimen all screws, glazing beads, and any other members or other mechanical fasteners that can be removed readily from the exterior within a time limit of 5 min using the Disassembly Test Tools List. Removal of the indicated parts shall be done carefully so as not to cause collateral damage to the specimen.

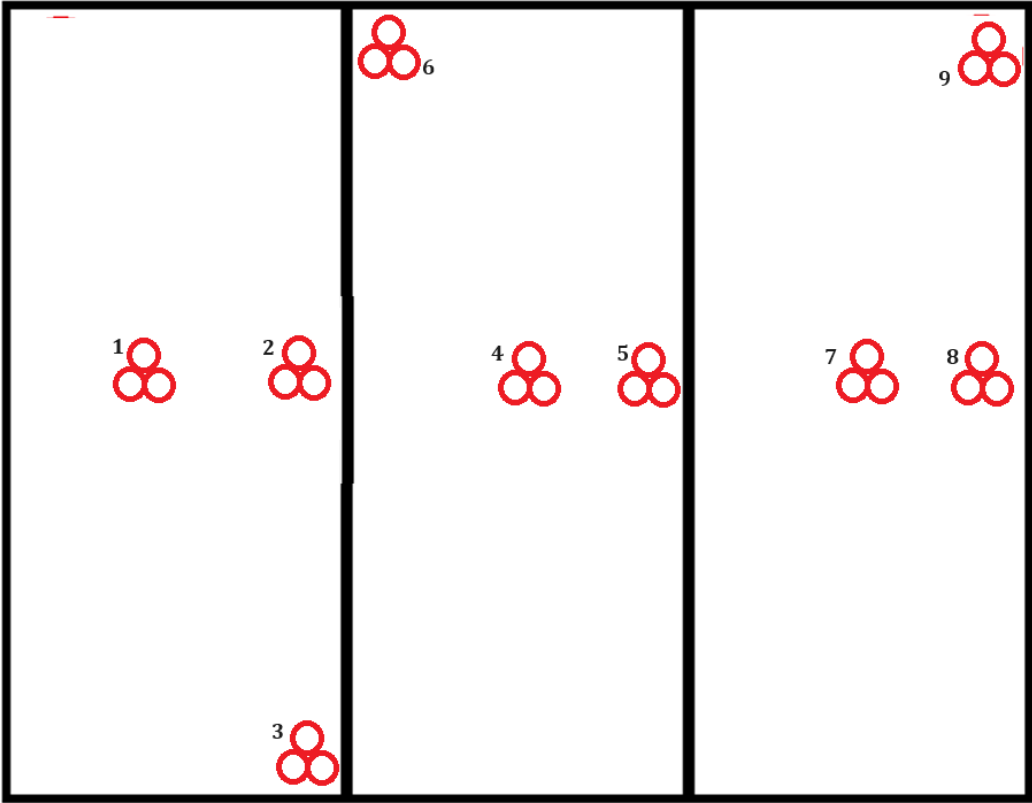
Disassembly Test Tools

*A spatula, putty knife or other non-cutting tool with a thin blade.

**Non powered straight 6" Phillips screw driver

***Standard Slot type pliers 6-7" length

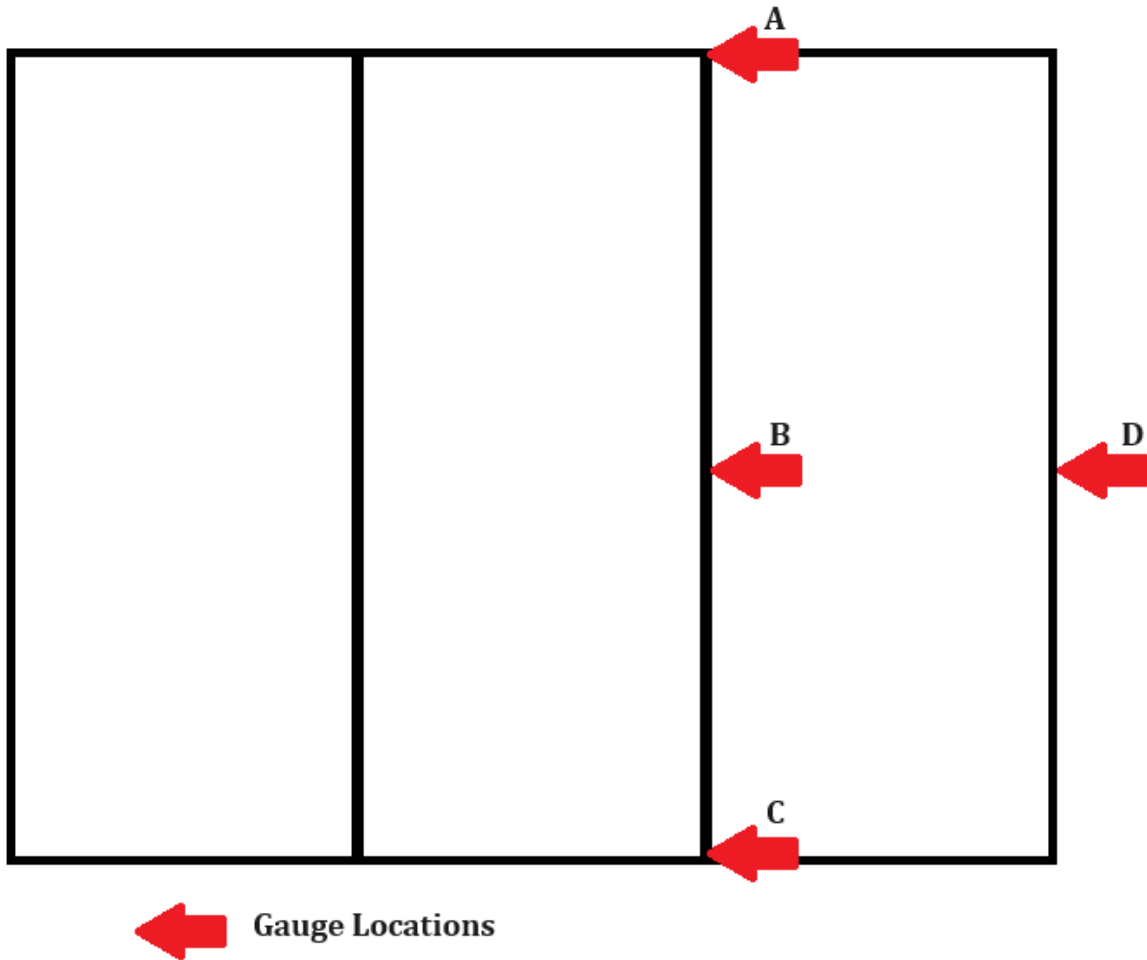
PASS/FAIL: PASS



Small Missile Impact Locations

Mock Up 6

SMALL MISSILE IMPACT DATA SHEET					
		Location			Results
	Shot	Area	X (in.)	Y (in.)	Pass/Fail
	1	Center	15	79	Pass
	2	Center	35	81	Pass
	3	Corner	38	18	Pass
	4	Center	65	85	Pass
	5	Center	83	85	Pass
	6	Corner	61	135	Pass
	7	Center	118	94	Pass
	8	Center	135	94	Pass
	9	Corner	135	138	Pass
Notes: 130 ft/s					



Mock Up 6

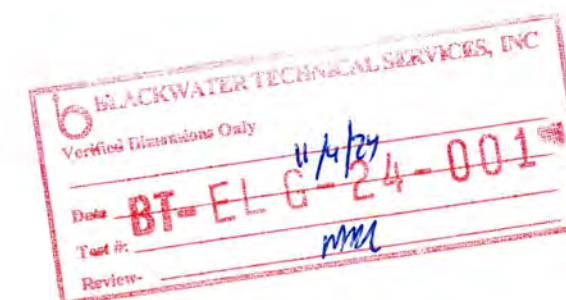
CYCLIC LOAD DATA SHEET					Pd psf		T= 89°F						
					High	Low							
					175.00	175.00							
Positive Pressure													
Cycles	Load Range	High Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		Avg time per Cycle (Seconds)
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
3500	20% to 50%	87.5	6.73	16.83	0.688	0.063	0.500	0.000	0.000	0.000	0.125	0.000	2.1
300	0% to 60%	105	0	20.19	0.750	0.000	0.625	0.000	0.000	0.000	0.188	0.000	2.5
600	50% to 80%	140	16.83	26.92	0.813	0.000	0.750	0.063	0.063	0.000	0.250	0.000	2.6
100	30% to 100%	175	10.10	33.65	1.125	0.063	1.000	0.063	0.125	0.000	0.375	0.000	3.0
Negative Pressure													
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		Avg time per Cycle (Seconds)
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
50	30% to 100%	175	10.10	33.65	0.750	0.000	0.563	0.063	0.125	0.000	0.375	0.000	2.6
1050	50% to 80%	140	16.83	26.92	0.625	0.000	0.438	0.000	0.063	0.000	0.313	0.000	2.1
50	0% to 60%	105	0	20.19	0.500	0.000	0.188	0.000	0.000	0.000	0.250	0.000	2.2
3350	20% to 50%	87.5	6.73	16.83	0.438	0.063	0.188	0.000	0.000	0.000	0.188	0.000	3.0

Test Drawings

ELICC-WW-200 SERIES Window-Wall System (LMI-D and SMI)

Issue Date: Oct. 29, 2024

REV: -



Issued By:

ELICC AMERICAS CORPORATION

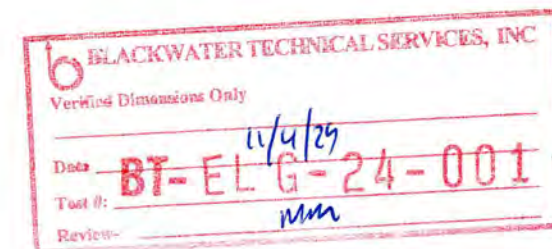
13475 DANIELSON ST.

POWAY, CA 92064

TEL: 760-233-0066

FAX: 760-233-0065

Legend to actions: A= Approved, B=Approved as noted, resubmit for record, C=Revise and resubmit, D=Rejected, E=No action taken.

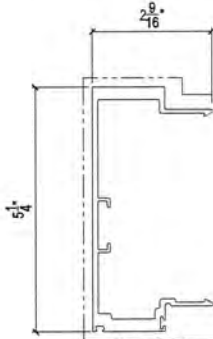
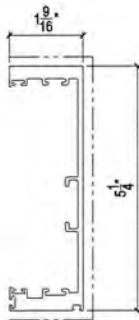
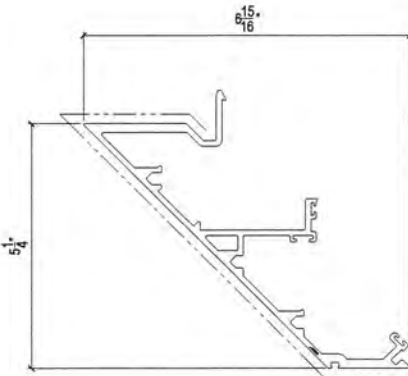
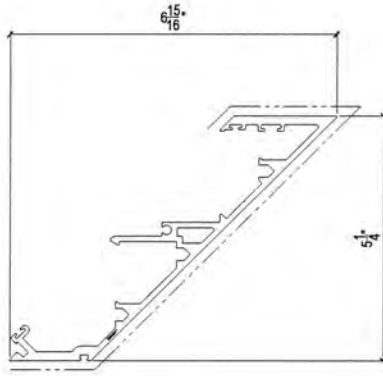
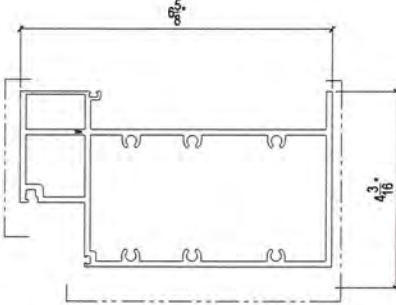
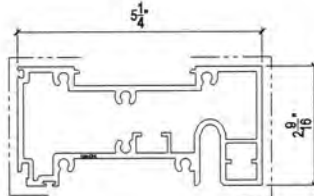
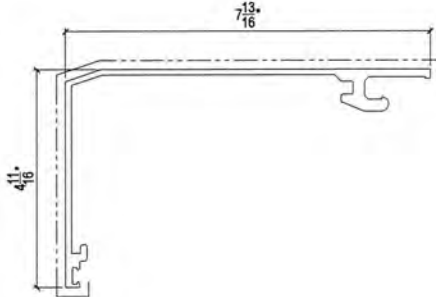
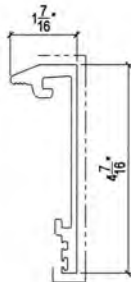
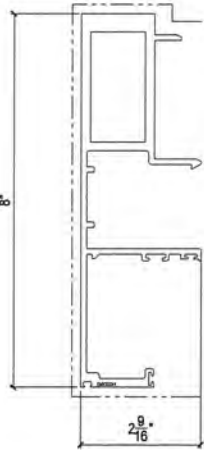
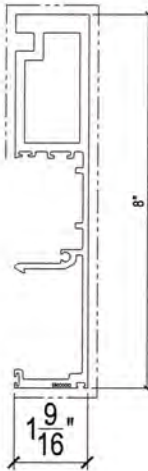
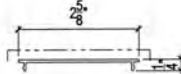
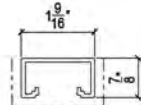
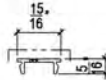
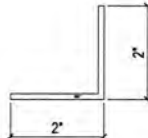
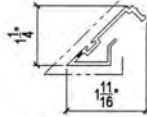
Revisions:

Phase: Test Drawing

LEGEND	DESCRIPTION	SECTION
GL-101	GL-101: VISION GLASS HS 6MM + 1.52MM PVB + HS 6MM Laminated Glass	
GL-101M	GL-101: VISION GLASS FT 6MM + 1.52MM PVB + FT 6MM Laminated Glass	
GL-101B	GL-101B: VISION GLASS HS 6MM + 2.28MM SGP + HS 6MM Laminated Glass	

6 BLACKWATER TECHNICAL SERVICES, INC
Verified Dimensions Only
Date: 11/4/24
Tool #: BT-ELG-24-001
Review: mm

Sheet No.: GN-201	
Date: Oct. 29, 2024	Revision No.: -
Scale: 6"=1'-0"	Size: 22"x34"
Phase: Test Drawing	

																																							
<table><tr><td>DIE NO. :*</td></tr><tr><td>MATERIAL : 6063-T6</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : MALE MULLION</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td><td>POWDER COAT-----</td></tr></table>	DIE NO. :*	MATERIAL : 6063-T6	FINISH : NON-CHROMATE	PURPOSE : MALE MULLION	COLOR: -	LEGEND:	POWDER COAT-----	<table><tr><td>DIE NO. :*</td></tr><tr><td>MATERIAL : 6063-T6</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : FEMALE MULLION</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td><td>POWDER COAT-----</td></tr></table>	DIE NO. :*	MATERIAL : 6063-T6	FINISH : NON-CHROMATE	PURPOSE : FEMALE MULLION	COLOR: -	LEGEND:	POWDER COAT-----	<table><tr><td>DIE NO. :*</td></tr><tr><td>MATERIAL : 6063-T6</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : FEMALE MULLION</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td><td>POWDER COAT-----</td></tr></table>	DIE NO. :*	MATERIAL : 6063-T6	FINISH : NON-CHROMATE	PURPOSE : FEMALE MULLION	COLOR: -	LEGEND:	POWDER COAT-----	<table><tr><td>DIE NO. :*</td></tr><tr><td>MATERIAL : 6063-T6</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : MALE MULLION</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td><td>POWDER COAT-----</td></tr></table>	DIE NO. :*	MATERIAL : 6063-T6	FINISH : NON-CHROMATE	PURPOSE : MALE MULLION	COLOR: -	LEGEND:	POWDER COAT-----	<table><tr><td>DIE NO. :*</td></tr><tr><td>MATERIAL : 6063-T5</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : TOP TRANSOM</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td><td>POWDER COAT-----</td></tr></table>	DIE NO. :*	MATERIAL : 6063-T5	FINISH : NON-CHROMATE	PURPOSE : TOP TRANSOM	COLOR: -	LEGEND:	POWDER COAT-----
DIE NO. :*																																							
MATERIAL : 6063-T6																																							
FINISH : NON-CHROMATE																																							
PURPOSE : MALE MULLION																																							
COLOR: -																																							
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				BLACKWATER TECHNICAL SERVICES, INC Verified Dimensions Only Date: 11/4/24 Drawn: BT-ELG-24-001 Test #: Mmm Review: 																																			
<table><tr><td>DIE NO. :-</td></tr><tr><td>MATERIAL : 6063-T5</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : COVER</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td><td>POWDER COAT-----</td></tr></table>	DIE NO. :-	MATERIAL : 6063-T5	FINISH : NON-CHROMATE	PURPOSE : COVER	COLOR: -	LEGEND:	POWDER COAT-----	<table><tr><td>DIE NO. :*</td></tr><tr><td>MATERIAL : 6063-T5</td></tr><tr><td>FINISH : AAMA2605</td></tr><tr><td>PURPOSE : ALUM. TUBE</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td><td>POWDER COAT-----</td></tr></table>	DIE NO. :*	MATERIAL : 6063-T5	FINISH : AAMA2605	PURPOSE : ALUM. TUBE	COLOR: -	LEGEND:	POWDER COAT-----	<table><tr><td>DIE NO. :EN13013</td></tr><tr><td>MATERIAL : 6063-T5</td></tr><tr><td>FINISH : AAMA2605</td></tr><tr><td>PURPOSE : COVER</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td><td>POWDER COAT-----</td></tr></table>	DIE NO. :EN13013	MATERIAL : 6063-T5	FINISH : AAMA2605	PURPOSE : COVER	COLOR: -	LEGEND:	POWDER COAT-----	<table><tr><td>DIE NO. :1330</td></tr><tr><td>MATERIAL : 6063-T5</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : ANGLE</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td><td>POWDER COAT-----</td></tr></table>	DIE NO. :1330	MATERIAL : 6063-T5	FINISH : NON-CHROMATE	PURPOSE : ANGLE	COLOR: -	LEGEND:	POWDER COAT-----	<table><tr><td>DIE NO. :*</td></tr><tr><td>MATERIAL : 6063-T5</td></tr><tr><td>FINISH : MILL FINISH</td></tr><tr><td>PURPOSE : CAP</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td><td>POWDER COAT-----</td></tr></table>	DIE NO. :*	MATERIAL : 6063-T5	FINISH : MILL FINISH	PURPOSE : CAP	COLOR: -	LEGEND:	POWDER COAT-----
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PURPOSE : CAP																																							
COLOR: -																																							
LEGEND:	POWDER COAT-----																																						

No.	Date	Description
Revisions:		

Issued By:



ELICC AMERICAS CORPORATION
13475 DANIELSON ST.
POWAY, CA 92064
Tel: (760)-233-0066
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:
ELICC-VW-200 SERIES

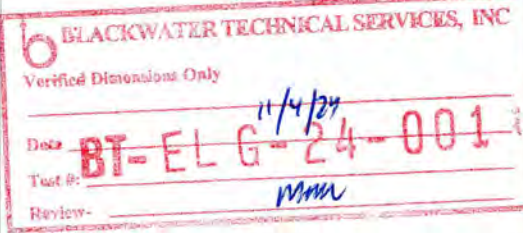
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Aluminum Extrusion

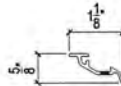
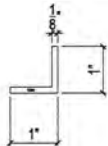
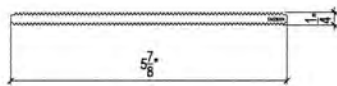
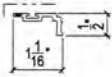
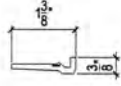
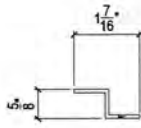
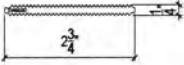
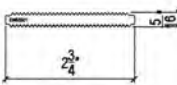
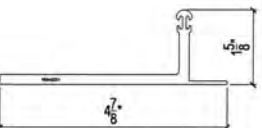
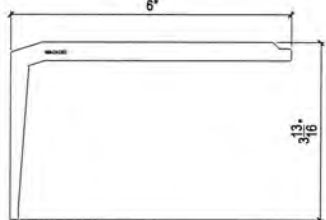
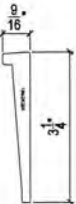
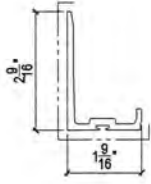
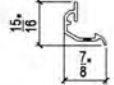
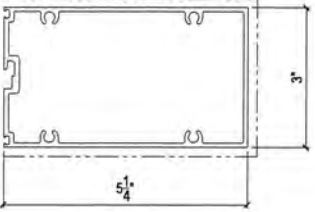
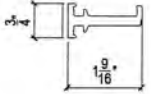
Sheet No.: ML-031

Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

Phase: Test Drawing



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DIE NO. :EW12002																																							
MATERIAL : 6063-T6																																							
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COLOR: -																																							
LEGEND:																																							
POWDER COAT-----																																							
DIE NO. : PAK-030																																							
MATERIAL : 6063-T5																																							
FINISH : NON-CHROMATE																																							
PURPOSE : BEARING BAR																																							
COLOR: -																																							
LEGEND:																																							
POWDER COAT-----																																							
 <table><tr><td>DIE NO. : *</td></tr><tr><td>MATERIAL : 6063-T5</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : CLIP</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td></tr><tr><td>POWDER COAT-----</td></tr></table>	DIE NO. : *	MATERIAL : 6063-T5	FINISH : NON-CHROMATE	PURPOSE : CLIP	COLOR: -	LEGEND:	POWDER COAT-----	 <table><tr><td>DIE NO. : EW55002</td></tr><tr><td>MATERIAL : 6063-T5</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : SHIM</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td></tr><tr><td>POWDER COAT-----</td></tr></table>	DIE NO. : EW55002	MATERIAL : 6063-T5	FINISH : NON-CHROMATE	PURPOSE : SHIM	COLOR: -	LEGEND:	POWDER COAT-----	 <table><tr><td>DIE NO. : EW55001</td></tr><tr><td>MATERIAL : 6063-T5</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : SHIM</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td></tr><tr><td>POWDER COAT-----</td></tr></table>	DIE NO. : EW55001	MATERIAL : 6063-T5	FINISH : NON-CHROMATE	PURPOSE : SHIM	COLOR: -	LEGEND:	POWDER COAT-----	 <table><tr><td>DIE NO. : *</td></tr><tr><td>MATERIAL : 6061-T6</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : STARTER TRACK</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td></tr><tr><td>POWDER COAT-----</td></tr></table>	DIE NO. : *	MATERIAL : 6061-T6	FINISH : NON-CHROMATE	PURPOSE : STARTER TRACK	COLOR: -	LEGEND:	POWDER COAT-----	 <table><tr><td>DIE NO. : *</td></tr><tr><td>MATERIAL : 6061-T6</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : RECEPTOR SLEEVE</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td></tr><tr><td>POWDER COAT-----</td></tr></table>	DIE NO. : *	MATERIAL : 6061-T6	FINISH : NON-CHROMATE	PURPOSE : RECEPTOR SLEEVE	COLOR: -	LEGEND:	POWDER COAT-----
DIE NO. : *																																							
MATERIAL : 6063-T5																																							
FINISH : NON-CHROMATE																																							
PURPOSE : CLIP																																							
COLOR: -																																							
LEGEND:																																							
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 <table><tr><td>DIE NO. : *</td></tr><tr><td>MATERIAL : 6061-T6</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : CAP SLEEVE</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td></tr><tr><td>POWDER COAT-----</td></tr></table>	DIE NO. : *	MATERIAL : 6061-T6	FINISH : NON-CHROMATE	PURPOSE : CAP SLEEVE	COLOR: -	LEGEND:	POWDER COAT-----	 <table><tr><td>DIE NO. : *</td></tr><tr><td>MATERIAL : 6063-T6</td></tr><tr><td>FINISH : AAMA2605</td></tr><tr><td>PURPOSE : CAP</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td></tr><tr><td>POWDER COAT-----</td></tr></table>	DIE NO. : *	MATERIAL : 6063-T6	FINISH : AAMA2605	PURPOSE : CAP	COLOR: -	LEGEND:	POWDER COAT-----	 <table><tr><td>DIE NO. : ES12002</td></tr><tr><td>MATERIAL : 6063-T5</td></tr><tr><td>FINISH : NON-CHROMATE</td></tr><tr><td>PURPOSE : ANTI-BUCKLING CLIP</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td></tr><tr><td>POWDER COAT-----</td></tr></table>	DIE NO. : ES12002	MATERIAL : 6063-T5	FINISH : NON-CHROMATE	PURPOSE : ANTI-BUCKLING CLIP	COLOR: -	LEGEND:	POWDER COAT-----	 <table><tr><td>DIE NO. : *</td></tr><tr><td>MATERIAL : 6063-T5</td></tr><tr><td>FINISH : AAMA2604</td></tr><tr><td>PURPOSE : INTERMEDIATE TRANSOM</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td></tr><tr><td>POWDER COAT-----</td></tr></table>	DIE NO. : *	MATERIAL : 6063-T5	FINISH : AAMA2604	PURPOSE : INTERMEDIATE TRANSOM	COLOR: -	LEGEND:	POWDER COAT-----	 <table><tr><td>DIE NO. : *</td></tr><tr><td>MATERIAL : 6063-T6</td></tr><tr><td>FINISH : AAMA2605</td></tr><tr><td>PURPOSE : CLIP</td></tr><tr><td>COLOR: -</td></tr></table> <table><tr><td>LEGEND:</td></tr><tr><td>POWDER COAT-----</td></tr></table>	DIE NO. : *	MATERIAL : 6063-T6	FINISH : AAMA2605	PURPOSE : CLIP	COLOR: -	LEGEND:	POWDER COAT-----
DIE NO. : *																																							
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POWDER COAT-----																																							

BLACKWATER TECHNICAL SERVICES, INC

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Part: BT-ELG-24-001

Drawn: mm

Review:

No.	Date	Description
Revisions:		

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Fax: (760)-233-0065

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Checked By:

Design Team:

TESTING SYSTEM:
ELICC-WW-200 SERIES

Title:
MATERIAL LIST
Aluminum Extrusion

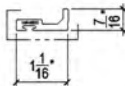
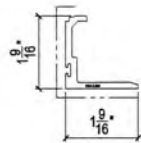
Sheet No.: ML-032

Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

Phase: Test Drawing





DIE NO. :*	
MATERIAL : 6063-T6	
FINISH :AAMA2605	
PURPOSE : CAP	
COLOR: -	LEGEND: POWDER COAT-----

DIE NO. :*	
MATERIAL : 6063-T6	
FINISH :AAMA2605	
PURPOSE : TRIM	
COLOR: -	LEGEND: POWDER COAT-----

No.	Date	Description
Revisions:		

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Title:
MATERIAL LIST
Aluminum Extrusion

Sheet No.: ML-032B

Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

Phase: Test Drawing

BLACKWATER TECHNICAL SERVICES, INC

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Date: 11/4/24

BT-ELG-24-001

Test #: MM

Review:

1.MATERIAL LIST OF GASKET AND THERMAL BREAK AND SETTING-BLOCK

TAG	DIAGRAM	SCALE	DIE NO.	MATERIAL/COLOR/DUROMETER
GA011**		1:1	GA011**	PA66+GF25 (BLACK) D80±5°
GA01140		1:1	GA01140	SILICONE (BLACK)A65° ±5°
GA01142		1:1	GA01142	SILICONE (BLACK)A65° ±5°
GA01144		1:1	GA01146	SILICONE (BLACK)A65° ±5°
GA01148		1:1	GA01148	SILICONE (BLACK)A65° ±5°
GA01154		1:1	GA0115*	SILICONE (BLACK)A65° ±5°
GA01240		1:1	GA01240	SILICONE (BLACK)A65° ±5°
GA01246		1:1	GA01246	SILICONE (BLACK)A65° ±5°
GA01254		1:1	GA0125*	SILICONE (BLACK)A65° ±5°
GA02106		1:1	GA02106	SILICONE (BLACK)A65° ±5°
GA04102		1:1	GA04102	SILICONE (BLACK)A65° ±5°
GA0516*		1:1	GA0516*	SILICONE (BLACK)A65° ±5°
GA05102		1:1	GA05102	SILICONE (BLACK)A65° ±5°
GA05103		1:1	GA05103	SILICONE (BLACK)A65° ±5°
GA05203		1:1	GA05203	SILICONE (BLACK) DUROMETER: A65±5 DUROMETER: A30±5
GA07149		1:1	GA07149	SILICONE (BLACK)A65° ±5°
GA01		1:1	15x4mm	SILICONE (BLACK)A85° ±5°
GA02		1:1	15x2mm	SILICONE (BLACK)A85° ±5°

TAG	DIAGRAM	SCALE	DIE NO.	MATERIAL/COLOR/DUROMETER
GA03		1:1	24x8mm	SILICONE (BLACK)A85° ±5°
GA04		1:1	2mm THK.	SILICONE (BLACK)A65° ±5°
GA05***		1:1	GA05***	SILICONE (BLACK)A65° ±5°
GA05		1:1	20x8mm	SILICONE (BLACK)A85° ±5°
GA06		1:1	20x10mm	SILICONE (BLACK)A85° ±5°

2.INSULATING ROCKWOOL

IN01	MINERAL FIBER INSULATION (NOMINAL DENSITY :4PCF) BRAND AND TYPE :THERMAFIBER FIRESpan 40 R=4.2 PER INCH	
------	---	--

3.SEALANT MATERIAL LIST

S01	WEATHER SEALANT BRAND: DOW TYPE: DOWSILL 791 or 790 COLOR: BLACK	
S02	STRUCTURAL SEALANT BRAND: DOW TYPE: DOWSILL 983 COLOR: BLACK	

4.MISCELLANEOUS MATERIAL LIST

M01	BI-CELLUAR BACKER ROD	
M02	DOUBLE-SIDED ADHESIVE TAPE	
M03	OPEN CELL WEEP BAFFLE	
M04	12 GAUGE STEEL WELD PINS WITH STEEL CLINCH SHIELDS SHIELDS STAGGERED 12 IN. OC	
M05	SILICONE PLUG (BED SEALED)	
M06	2mm THK. S.S 316 FLAT WASHER(FOR THE GA12108)	

BLACKWATER TECHNICAL SERVICES, INC

11/4/24

BT-ELG-24-001

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TESTING SYSTEM:
ELICC-WW-200 SERIES

Title:
MATERIAL LIST

Sheet No.: ML-033

Date: Oct. 29, 2024

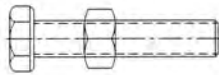
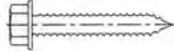
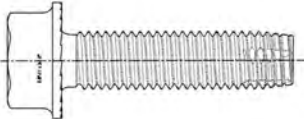
Revision No.: -

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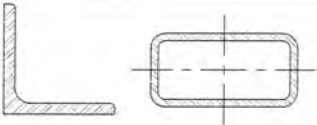
Size: 22"x34"

Phase: Test Drawing

5.MATERIAL LIST OF FASTENERS

TAG	DIAGRAM	DESCRIPTION	GRADE	MATERIAL/FINISH
F1446		M10x50mm H.H. BOLT (FULL THREAD) W/ NUT	S.S. 316	STAINLESS STEEL
F2448		ST6.3x38mm HEX HEAD S.T. SCREW	S.S. 316	STAINLESS STEEL
F3008		ST4.2x16mm PAN-HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3009		ST4.2x19mm PAN-HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3012		ST4.2x32mm PAN-HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3208		ST4.2x16mm FLAT-HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3209		ST4.2x19mm FLAT-HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F4001		M5x6 CROSS RECESSED PAN HEAD SCREW	S.S. 316	STAINLESS STEEL
F4004		M5x12 CROSS RECESSED PAN HEAD SCREW	S.S. 316	STAINLESS STEEL
F4206		M5x20mm CROSS RECESSED COUNTERSUNK HEAD SCREW	S.S. 316	STAINLESS STEEL
FA02		DEWALT 5/16" X 3-3/4" HWH ULTRA CON SCREWS	-	Material:Carbon steel FINISH:Stalgard coating
FA03		5/8"-11 x 2-1/2" H.W.H TAPFLEX BOLT	ALLOY STEEL	SILVER STALGARD® SUB COATING

6.MATERIAL LIST OF STEEL

SL01	STEEL HOLLOW FINISH:HOT-DIP GALVANIZED COATING GRADE COMPLY WITH ASTM A123	
SL02	$\frac{5}{8}$ " (16.0mm) THICK STEEL PLATE FINISH:HOT-DIP GALVANIZED COATING GRADE COMPLY WITH ASTM A123	
SL03	STAINLESS STEEL MATERIAL: 316	

7.MATERIAL LIST OF METAL PANEL

LEGEND NUMBER	MATERIAL DESCRIPTION	SECTION
MP-01	1/8" (3mm) THICK ALUMINUM PANEL ALLOY: 3003-H14 FINISH: POWER COATING (AAMA 2605 @ OUTSIDE ; AAMA 2604 @ INSIDE) COLOR: REFER TO ELEVATION OR NOTES IN DETAILS	
MP-02	0.039" (1.0mm) THICK STEEL SHEET FINISH: HOT-DIP GALVANIZED COATING THICKNESS: TOTAL BOTH SIDES 80g/m² (COMPLY WITH ASTM A 653/A 653M, G30)	

BLACKWATER TECHNICAL SERVICES, INC
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Date: 11/4/24
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mm
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-	-	-
No.	Date	Description

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Checked By:

Design Team:

TESTING SYSTEM:

ELICC-WW-200 SERIES

Title:

MATERIAL LIST

Sheet No.: ML-034

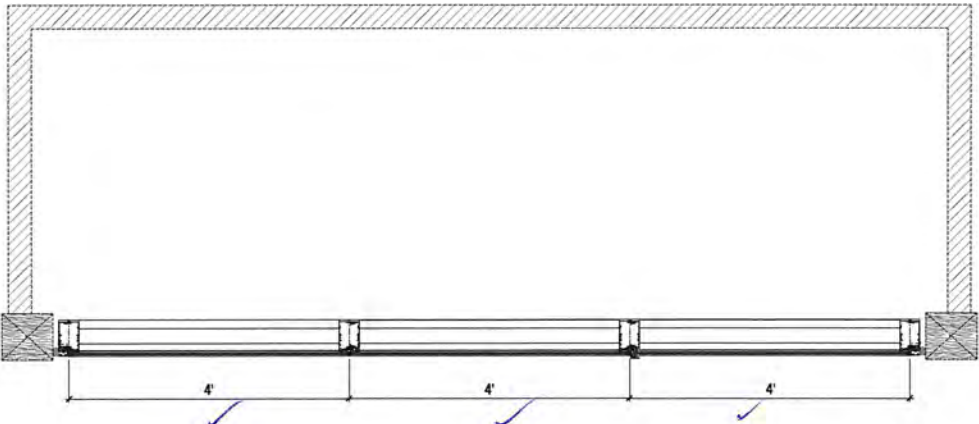
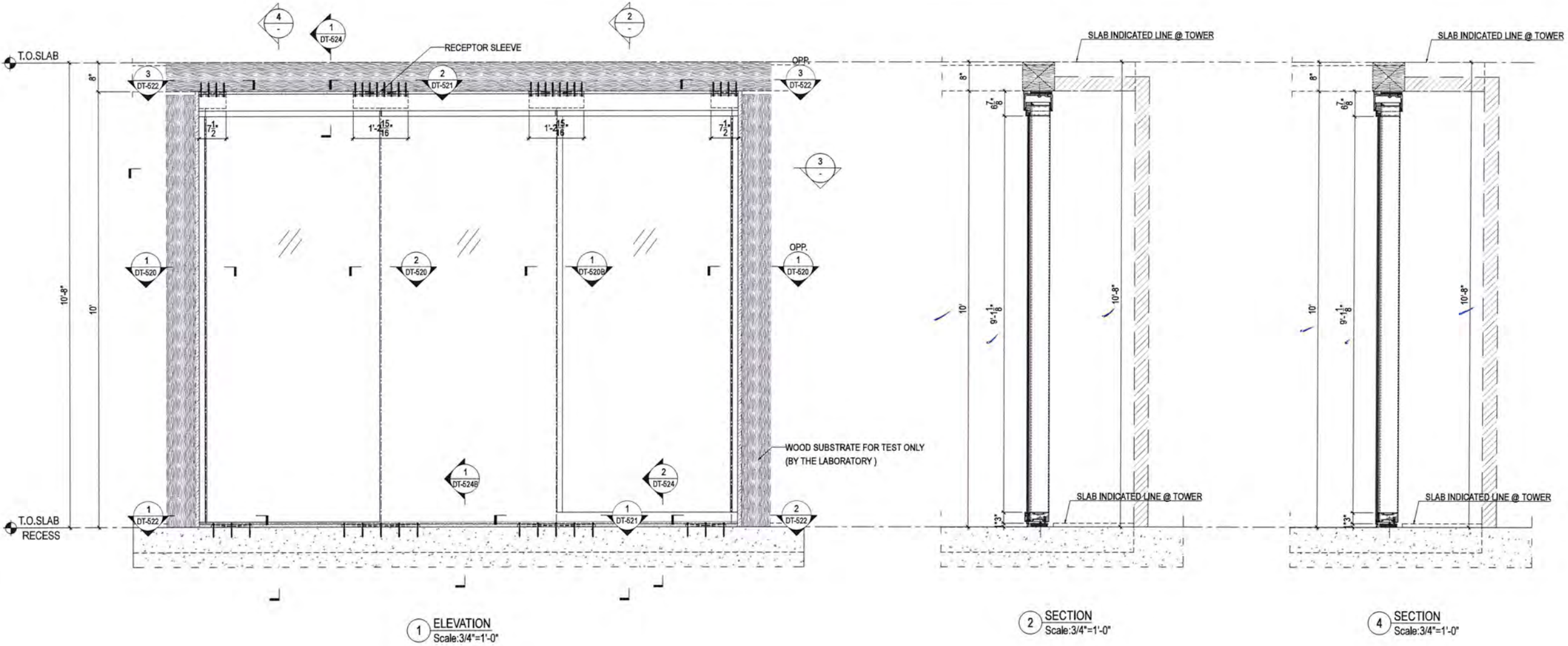
Date: Oct. 29, 2024

Revision No.: -

Scale: 1'-0"=1'-0"

Size: 22"x34"

Phase: Test Drawing



Legend:
GL-101B: HS 6MM + 2.28MM SGP + HS 6MM LAMINATED GLASS

REFERENCE WALL TYPE WT-2
SPECIMEN # 4
LARGE MISSILE IMPACT
DESIGN WIND LOAD: ±110 PSF

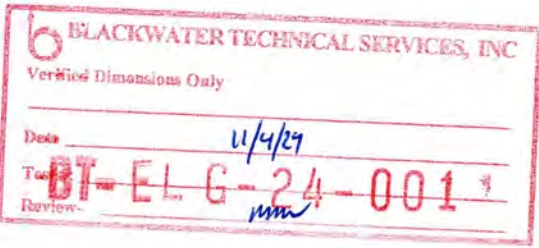
TESTS PER:
TAS-201
TAS-202
TAS-203

MULLION CAPACITY CHART		
FW	FH	Pd ALLOW
INCH	INCH	PSF (±)
48	116	130

GLASS CAPACITY CHART		
WITH	HIGH	Pd ALLOW
INCH	INCH	PSF (±)
48	110	160

ANCHOR CAPACITY CHART		
FW	FH	Pd ALLOW
INCH	INCH	PSF (±)
48	116	125

FASTENER: DEWALT 5/16" X 3-3/4" HWH ULTRACON SCREWS
BASE MATERIAL: CONCRETE



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TESTING SYSTEM:
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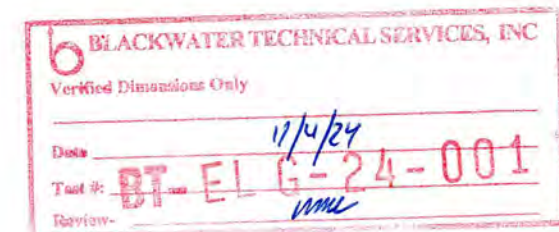
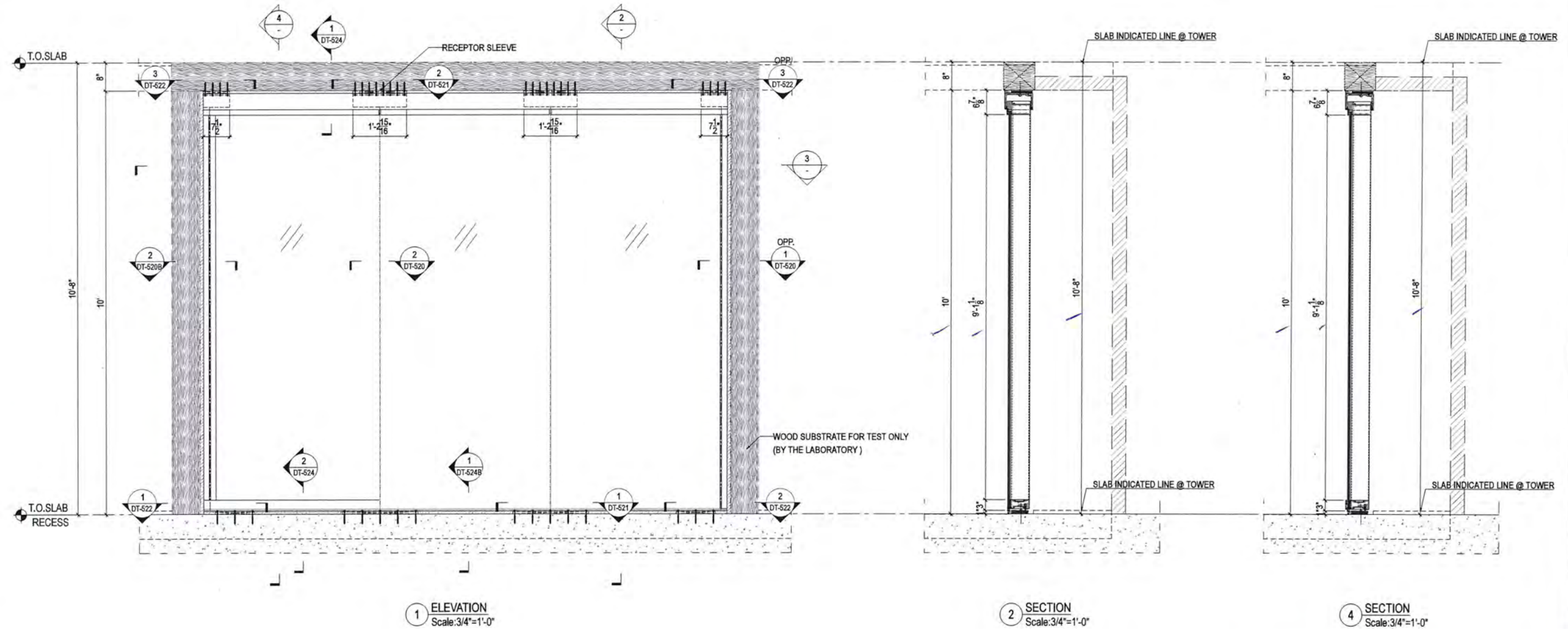
Title:
LARGE MISSILE IMPACT
TESTING ELEVATION

Sheet No.: PE-105

Date: Oct. 29, 2024 Revision No.: -

Scale: 3/4"=1'-0" Size: 22"x34"

Phase: Test Drawing



Legend:
VISION GLASS
GL-101: HS 6MM + 1.52MM PVB + HS 6MM LAMINATED GLASS

REFERENCE WALL TYPE WT-2	
SPECIMEN # 5	TESTS PER:
SMALL MISSILE IMPACT	TAS-201
DESIGN WIND LOAD: ±110 PSF	TAS-202
	TAS-203

MULLION CAPACITY CHART

FW	FH	Pd ALLOW
INCH	INCH	PSF (±)
48	116	130

GLASS CAPACITY CHART

WITH	HIGH	Pd ALLOW
INCH	INCH	PSF (±)
48	110	130

ANCHOR CAPACITY CHART

FW	FH	Pd ALLOW
INCH	INCH	PSF (±)
48	116	125

FASTENER: DEWALT 5/16" X 3-3/4" HWH ULTRACON SCREWS
BASE MATERIAL: CONCRETE

No.	Date	Description
Revisions:		

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Design Team:

TESTING SYSTEM:

ELICC-WW-200 SERIES

Title:
SMALL MISSILE IMPACT
TESTING ELEVATION

Sheet No.: PE-106

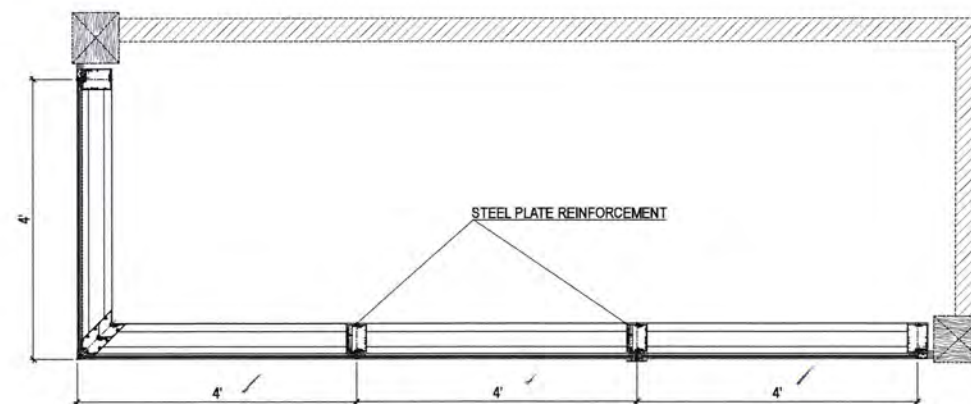
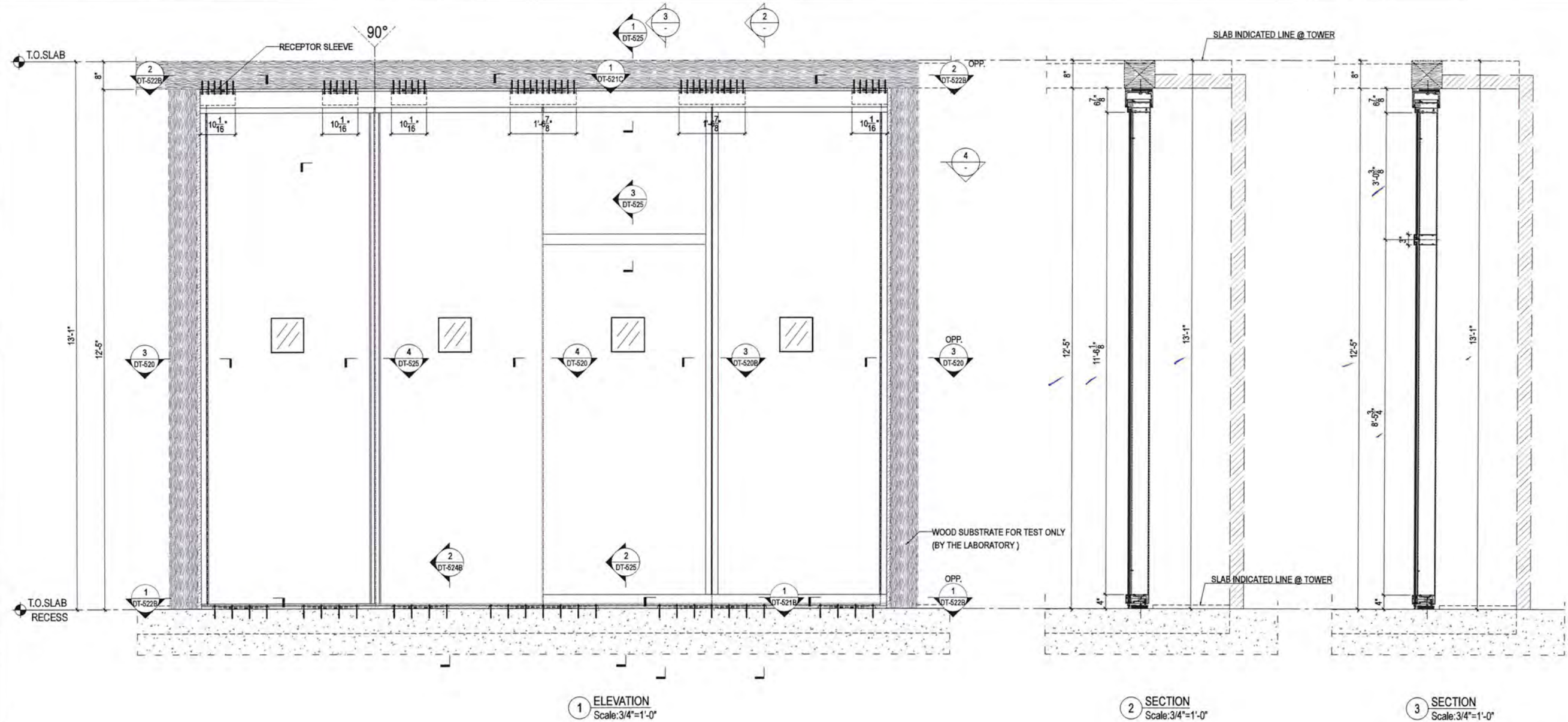
Date: Oct. 29, 2024

Revision No.: -

Scale: 3/4"=1'-0"

Size: 22"x34"

Phase: Test Drawing



Legend:
VISION GLASS
GL-101MM FT6MM + 1.52MM PVB + FT 6MM LAMINATED GLASS

REFERENCE WALL TYPE WT-2

SPECIMEN # 6
SMALL MISSILE IMPACT
DESIGN WIND LOAD: ±130 PSF

TESTS PER:
TAS-201
TAS-202
TAS-203

MULLION CAPACITY CHART

FW	FH	Pd ALLOW
INCH	INCH	PSF (±)
48	145	130

GLASS CAPACITY CHART

WITH	HIGH	Pd ALLOW
INCH	INCH	PSF (±)
48	139	175

ANCHOR CAPACITY CHART

FW	FH	Pd ALLOW
INCH	INCH	PSF (±)
48	145	138

FASTENER: DEWALT 5/16" X 3-3/4" HWH ULTRA-CON SCREWS
BASE MATERIAL: CONCRETE

No.	Date	Description
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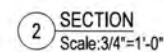
Title:
SMALL MISSILE IMPACT
TESTING ELEVATION

Sheet No.: PE-107

Date: Oct. 29, 2024 Revision No.: -

Scale: 3/4"=1'-0" Size: 22"x34"

Phase: Test Drawing



FASTENER: DEWALT 5/16" X 3-3/4" HWH ULTRA CON SCREWS
BASE MATERIAL: CONCRETE

-	-	-
No.	Date	Description

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Checked By:

Design Team:

TESTING SYSTEM:

ELICC-WW-200 SERIES

Title: **SMALL MISSILE IMPACT TESTING ELEVATION**

Sheet No.: PE-107B

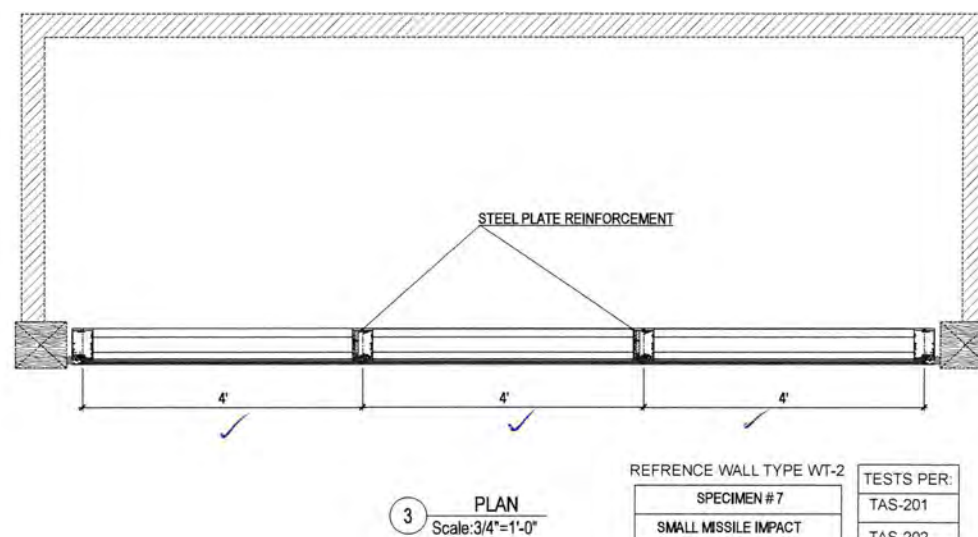
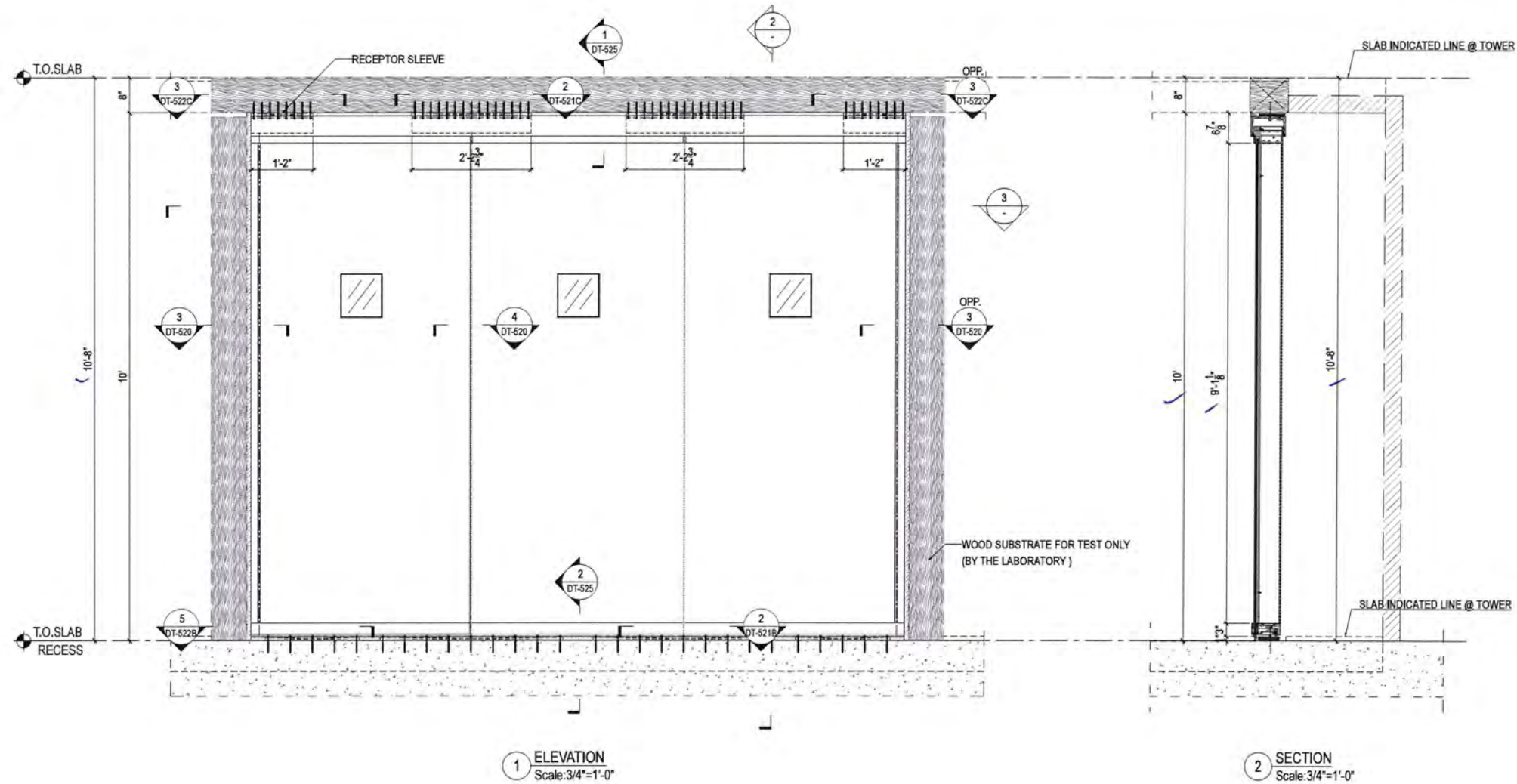
Date: Oct. 29, 2024

Revision No.: -

Scale: 3/4"=1'-0"

Size: 22"x34"

Phase: Test Drawing



Legend:
VISION GLASS
GL-101M FT6MM + 1.52MM PVB + FT 6MM LAMINATED GLASS

REFERENCE WALL TYPE WT-2	
SPECIMEN #7	TESTS PER:
SMALL MISSILE IMPACT	TAS-201
DESIGN WIND LOAD: ±175 PSF	TAS-202
	TAS-203

MULLION CAPACITY CHART

FW	FH	Pd ALLOW
INCH	INCH	PSF (±)
48	116	210

GLASS CAPACITY CHART

WITH	HIGH	Pd ALLOW
INCH	INCH	PSF (±)
48	110	205

ANCHOR CAPACITY CHART

FW	FH	Pd ALLOW
INCH	INCH	PSF (±)
48	116	235

FASTENER: DEWALT 5/16" X 3-3/4" HHW ULTRACON SCREWS
BASE MATERIAL: CONCRETE

No.	Date	Description
Revisions:		

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13475 DANIELSON ST.
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Tel: (760)-233-0066
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

TESTING SYSTEM:

ELICC-WW-200 SERIES

Title:
SMALL MISSILE IMPACT
TESTING ELEVATION

Sheet No.: PE-108

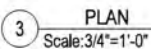
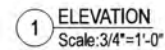
Date: Oct. 29, 2024

Revision No.: -

Scale: 3/4"=1'-0"

Size: 22"x34"

Phase: Test Drawing



Legend:

 VISION GLASS
GL-101Mt FT6MM + 1.52MM PVB + FT 6MM LAMINATED GLASS

SPECIMEN #9
SMALL MISSILE IMPACT
DESIGN WIND LOAD: ± 175 PSF

TESTS PER:
TAS-201
TAS-202
TAS-203

FW	FH	Pd ALLOW
INCH	INCH	PSF (±)
48	148	175

WITH	HIGH	Pd ALLOW
INCH	INCH	PSF (±)
48	142	175

FW	FH	Pd ALLOW
INCH	INCH	PSF (±)
48	148	185

FASTENER: 5/8"-11 x 2-1/2" H.W.H TAPFLEX BOLT
BASE MATERIAL: STEEL

No.	Date	Description
Revisions:		

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Design Team:

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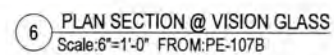
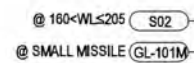
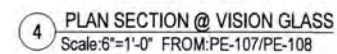
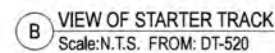
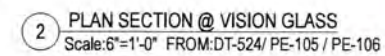
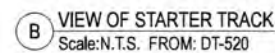
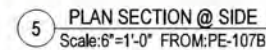
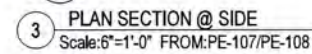
Title: SMALL MISSILE IMPACT TESTING ELEVATION

Sheet No.: PE-108B

Date: Oct. 29, 2024	Revision No.: -
---------------------	-----------------

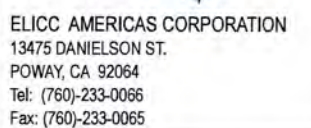
Scale: 3/4"=1'-0"	Size: 22"x34"
-------------------	---------------

Phase: Test Drawing



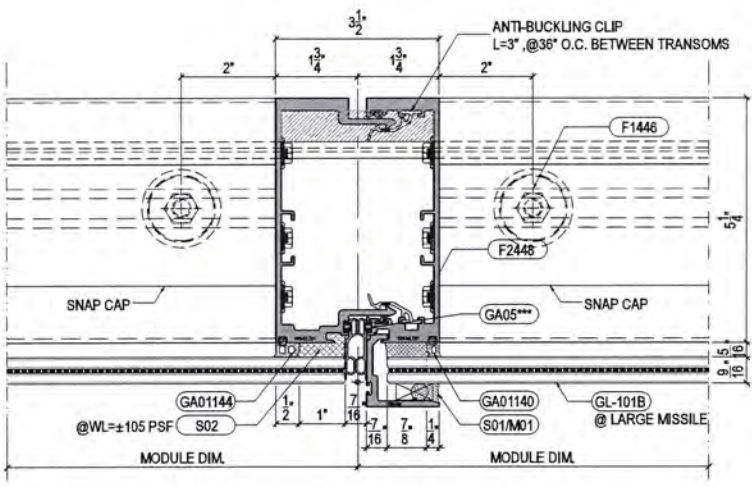
DT-ELG-24-UUT
11/4/11

Issued By:

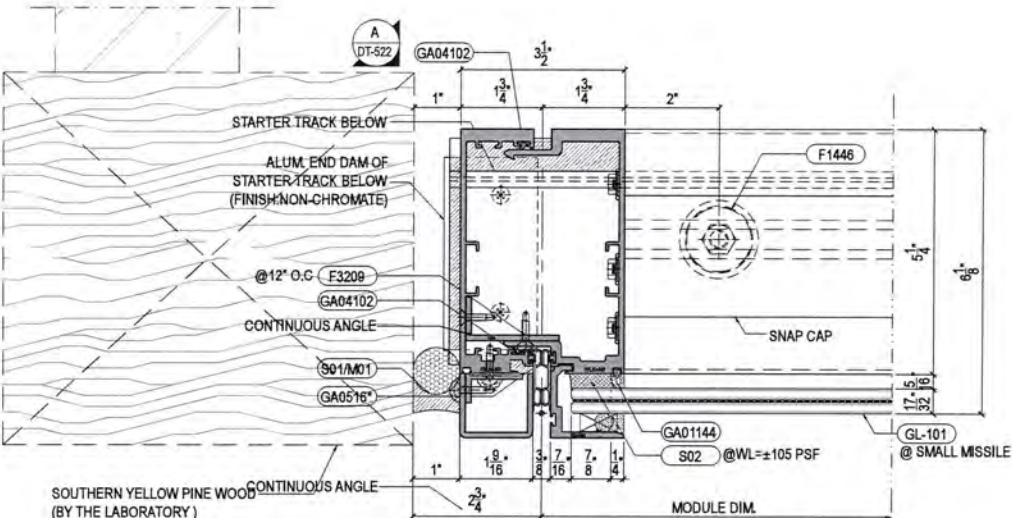


ELICC-WW-200 SERIES

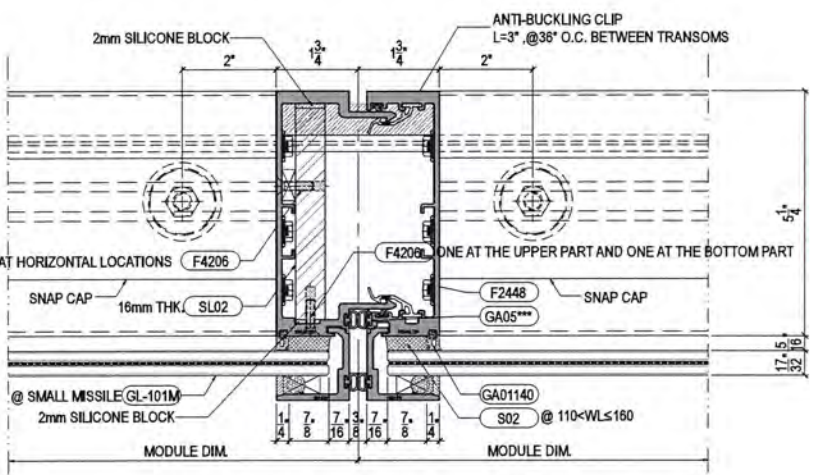
Phase: Test Drawing



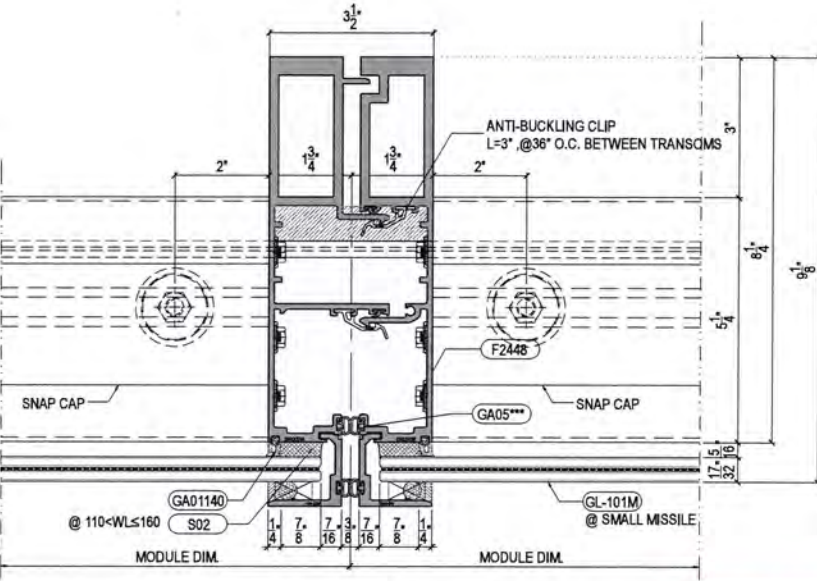
1 PLAN SECTION @ VISION GLASS
Scale: 6"=1'-0" FROM: PE-105



2 PLAN SECTION @ SIDE @ VISION GLASS
Scale: 6"=1'-0" FROM: PE-106



3 PLAN SECTION @ VISION GLASS
Scale: 6"=1'-0" FROM: PE-107



4 PLAN SECTION @ VISION GLASS
Scale: 6"=1'-0" FROM: PE-107B

BLACKWATER TECHNICAL SERVICES, INC
Verified Dimensions Only
Date: 11/4/24
Test #: BT-ELG-24-001
Review: MNN

No.	Date	Description
Revisions:		

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Approved By:

Checked By:

Design Team:

TESTING SYSTEM:

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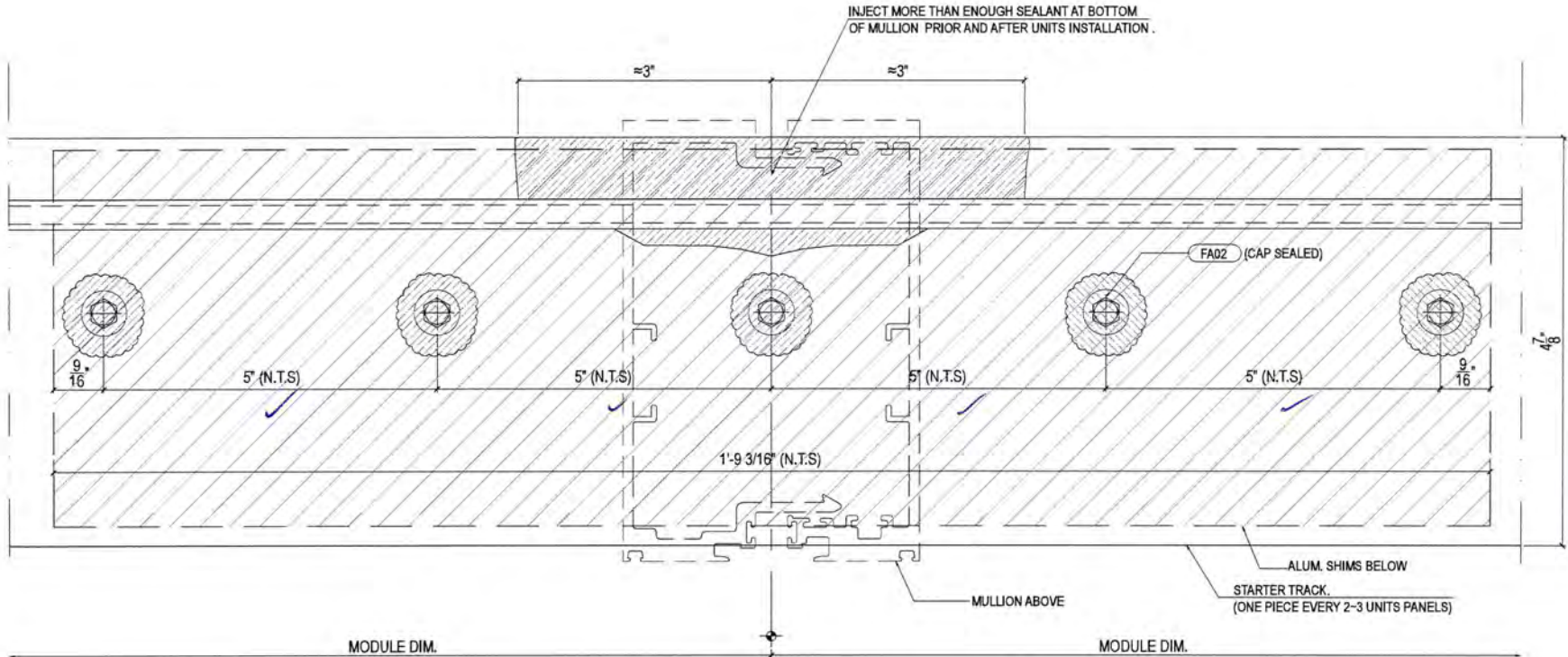
Title:
HORIZONTAL SECTION DETAIL

Sheet No.: DT-520B

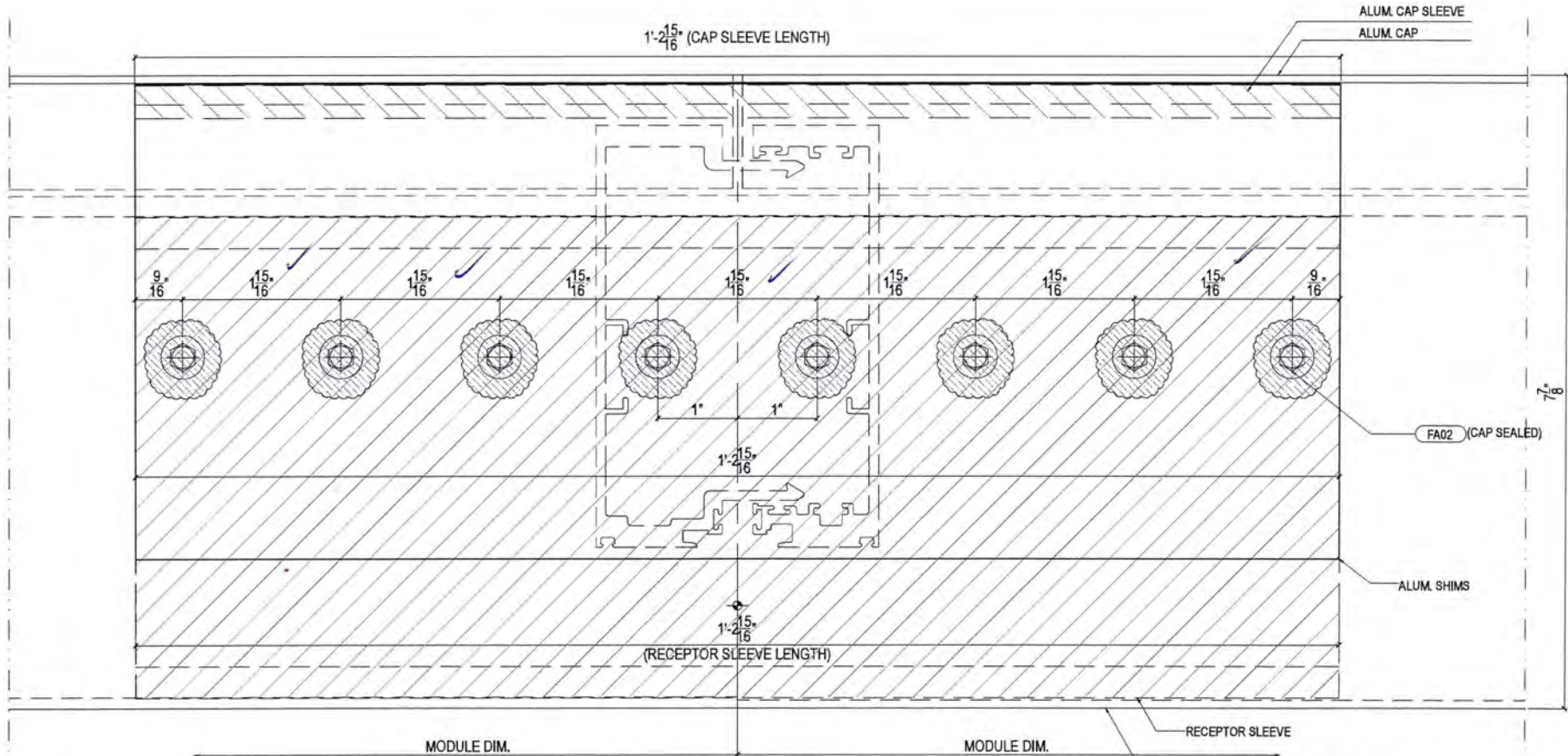
Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

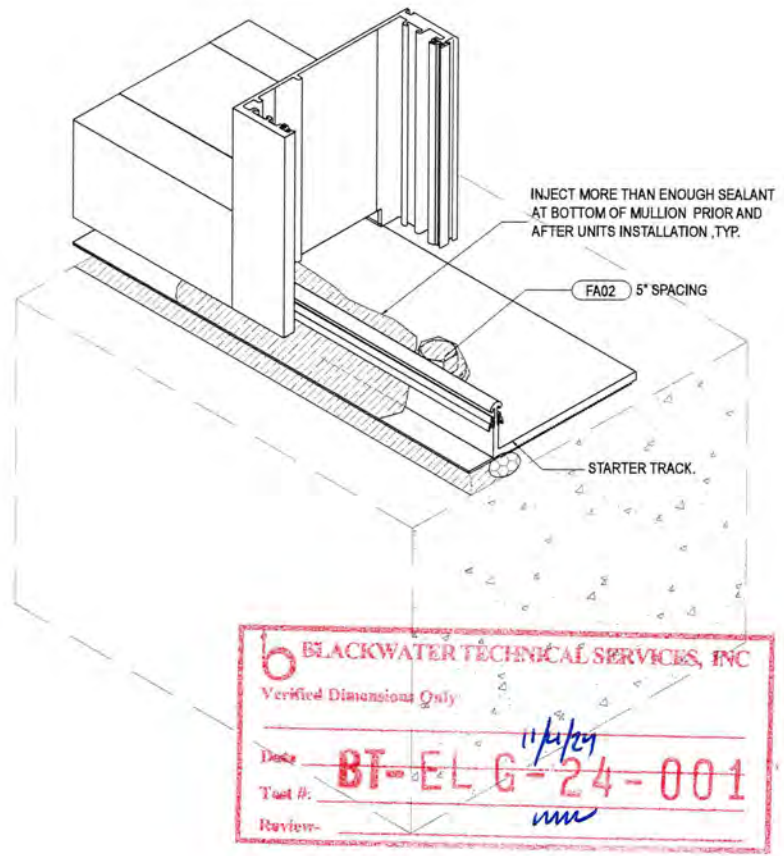
Phase: Test Drawing



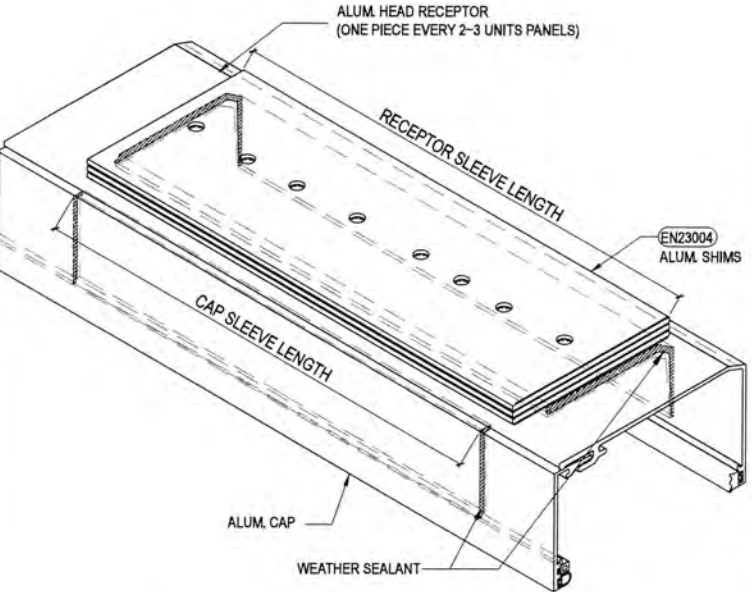
1 TYPICAL STARTER TRACK PLAN DETAIL @ WL≤110 PSF @ UNIT WIDTH ≤ 4'-0"
Scale: 1'-0"=1'-0" FROM: DT-524/PE-105/PE-106



2 HEAD RECEPTOR PLAN DETAIL @ WL≤110 PSF @ UNIT WIDTH ≤ 4'-0"
Scale: 1'-0"=1'-0" FROM: DT-524/PE-105/PE-106



3 ISOMETRIC VIEW OF WW SYSTEM
Scale: N.T.S FROM:



4 ISOMETRIC VIEW OF HEAD RECEPTOR
Scale: N.T.S FROM:

No.	Date	Description
Revisions:		

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Approved By:

Checked By:

Design Team:

TESTING SYSTEM:

ELICC-WW-200 SERIES

Title:
PLAN DETAILS OF
STARTER TRACK & HEAD
RECEPTOR

Sheet No.: DT-521

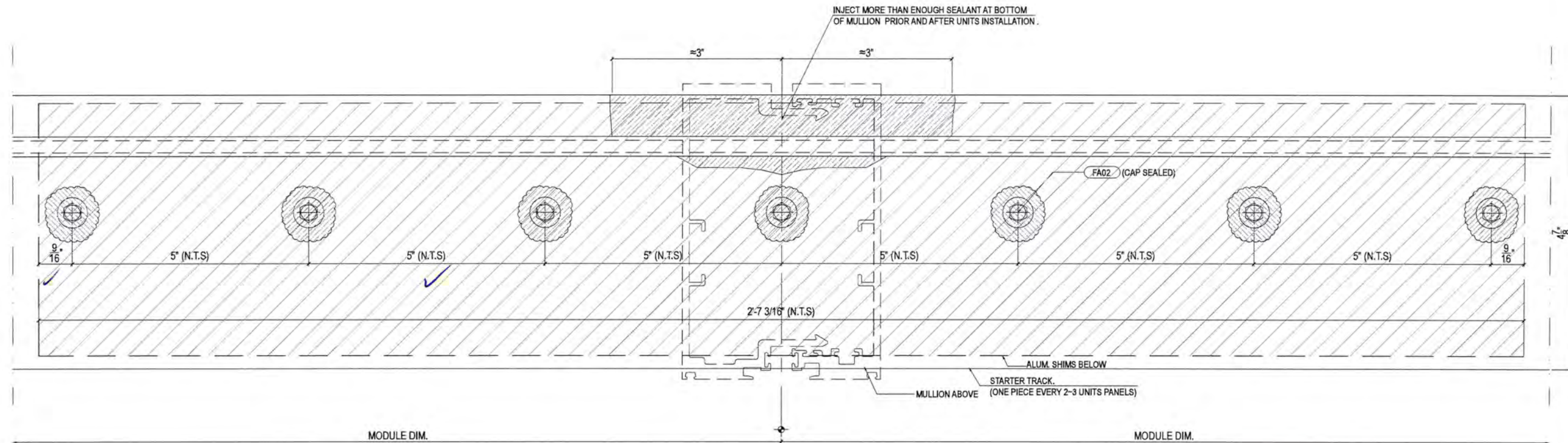
Date: Oct. 29, 2024

Revision No.: -

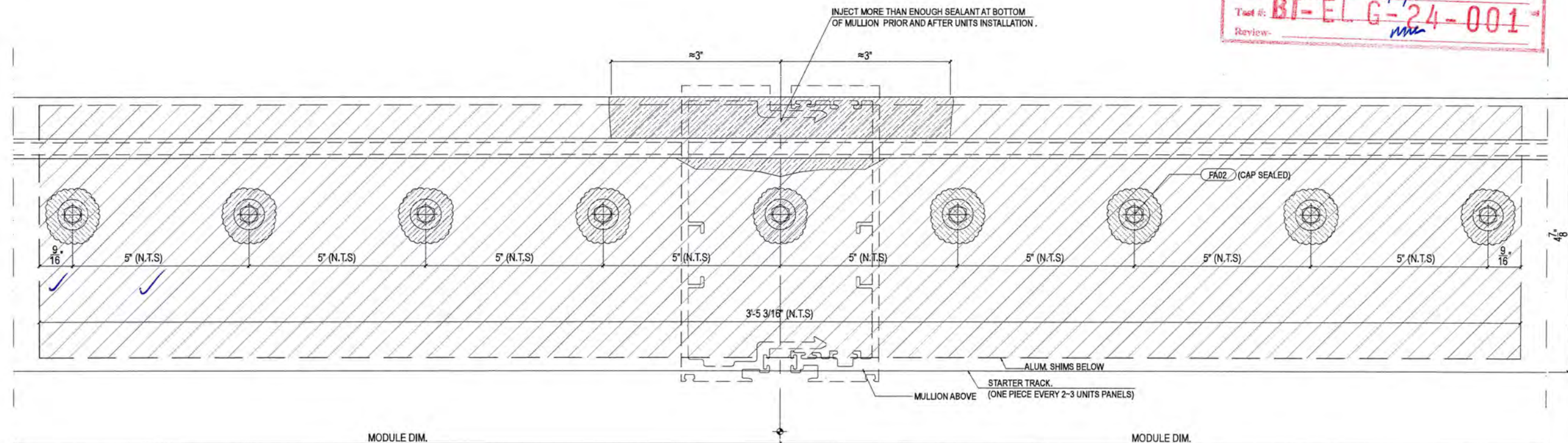
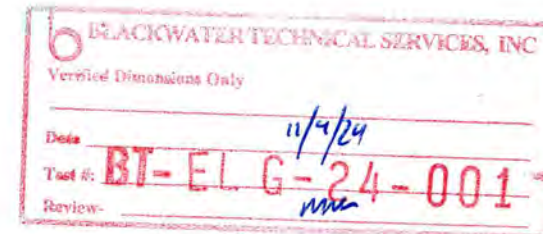
Scale: 1'-0"=1'-0"

Size: 22"x34"

Phase: Test Drawing



1 TYPICAL STARTER TRACK PLAN DETAIL @ 160<WL<205
Scale: 1'-0"=1'-0" FROM: PE-107



2 TYPICAL STARTER TRACK PLAN DETAIL @ 160<WL<205
Scale: 1'-0"=1'-0" FROM: PE-108

No.	Date	Description
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Checked By:

Design Team:

TESTING SYSTEM:
ELICC-WW-200 SERIES

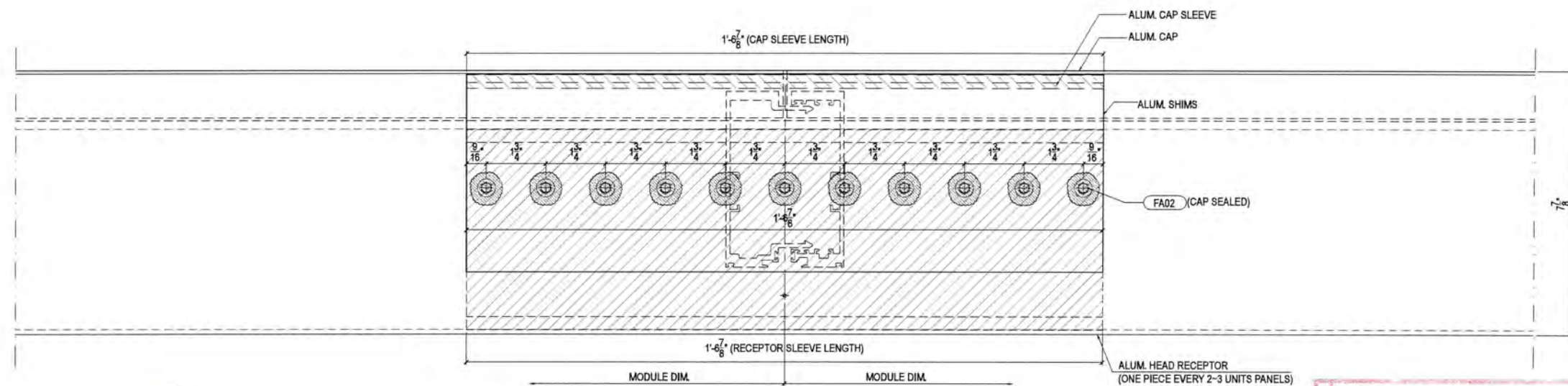
Title:
PLAN DETAILS OF
STARTER TRACK

Sheet No.: DT-521B

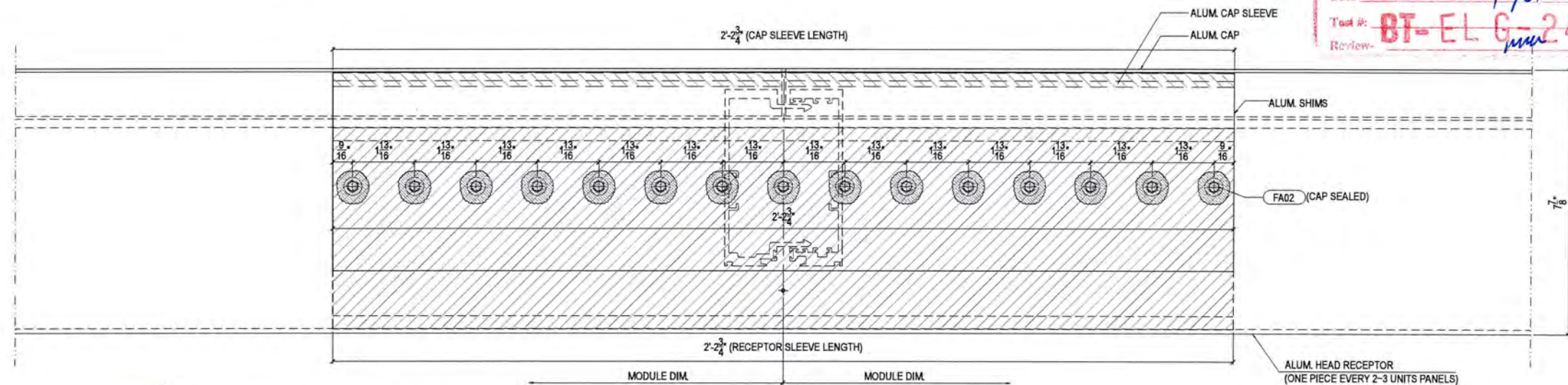
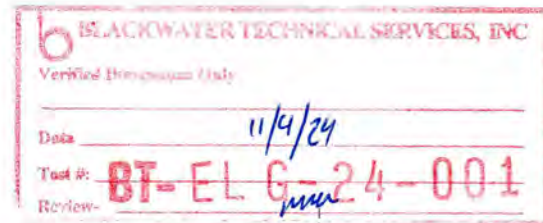
Date: Oct. 29, 2024 Revision No.: -

Scale: 1'-0"=1'-0" Size: 22"x34"

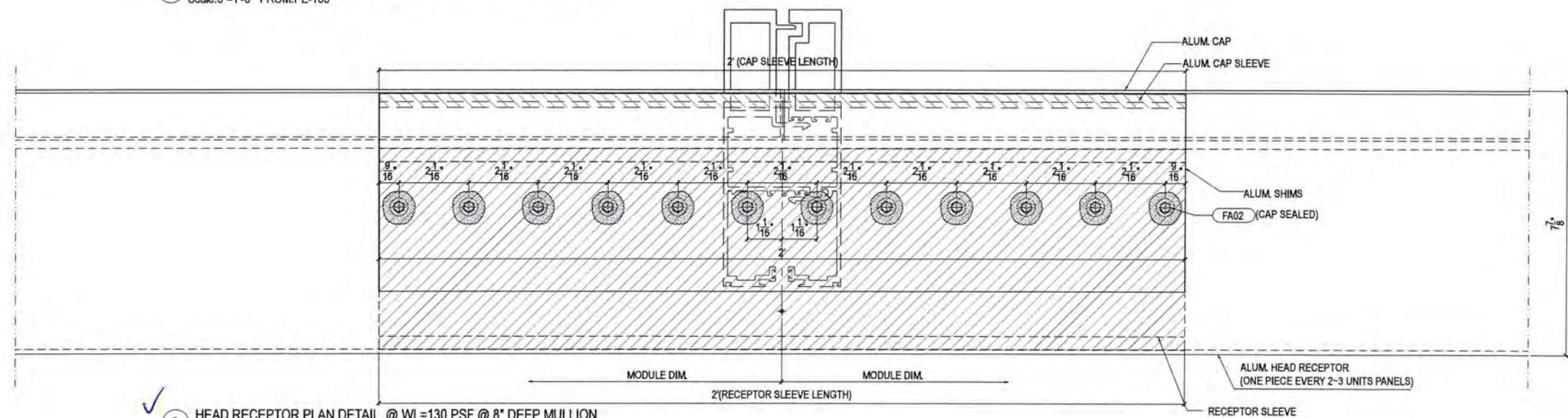
Phase: Test Drawing



✓
① HEAD RECEPTOR PLAN DETAIL @ 110<WL≤160 PSF @ UNIT WIDTH ≤ 4'-0"
Scale: 6"=1'-0" FROM: PE-107



2 HEAD RECEPTOR PLAN DETAIL @ 160<WLS205 @ UNIT WIDTH ≤ 4'-0"
Scale: 6"=1'-0" FROM: PE-108



3 HEAD RECEPTOR PLAN DETAIL @ WL=130 PSF @ 8" DEEP MULLION
Scale: 6"=1'-0" FROM: PE-107B / DT-524

-	-	-
No.	Date	Description

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Checked By:

Design Team:

TESTING SYSTEM:

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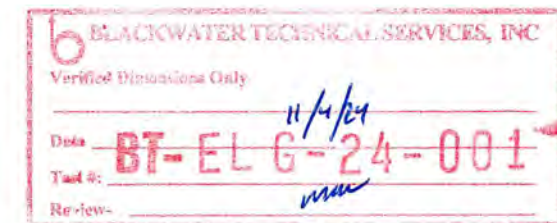
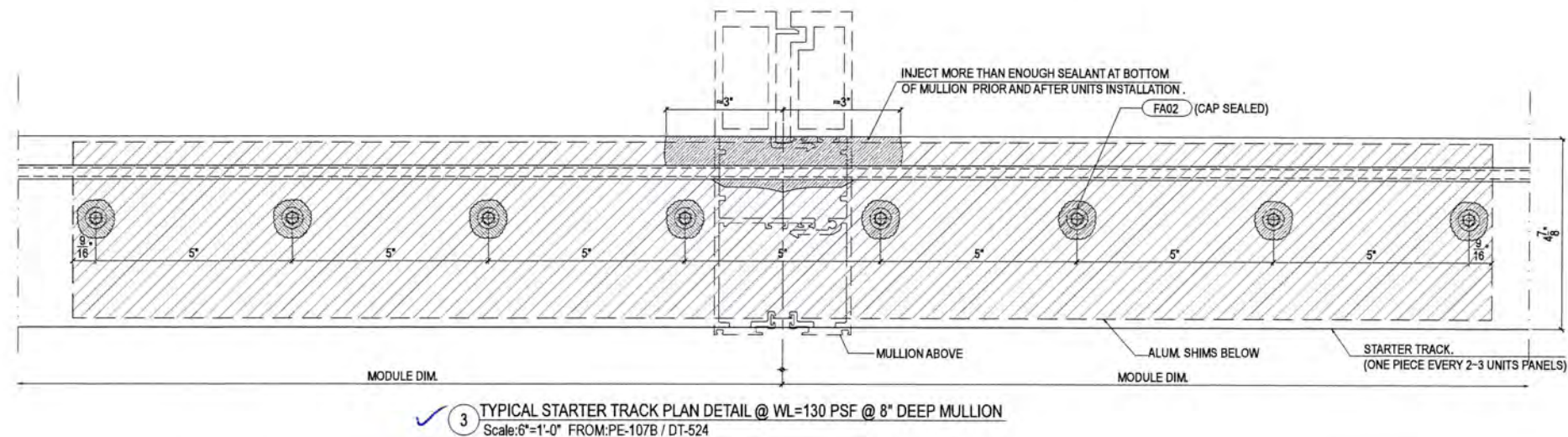
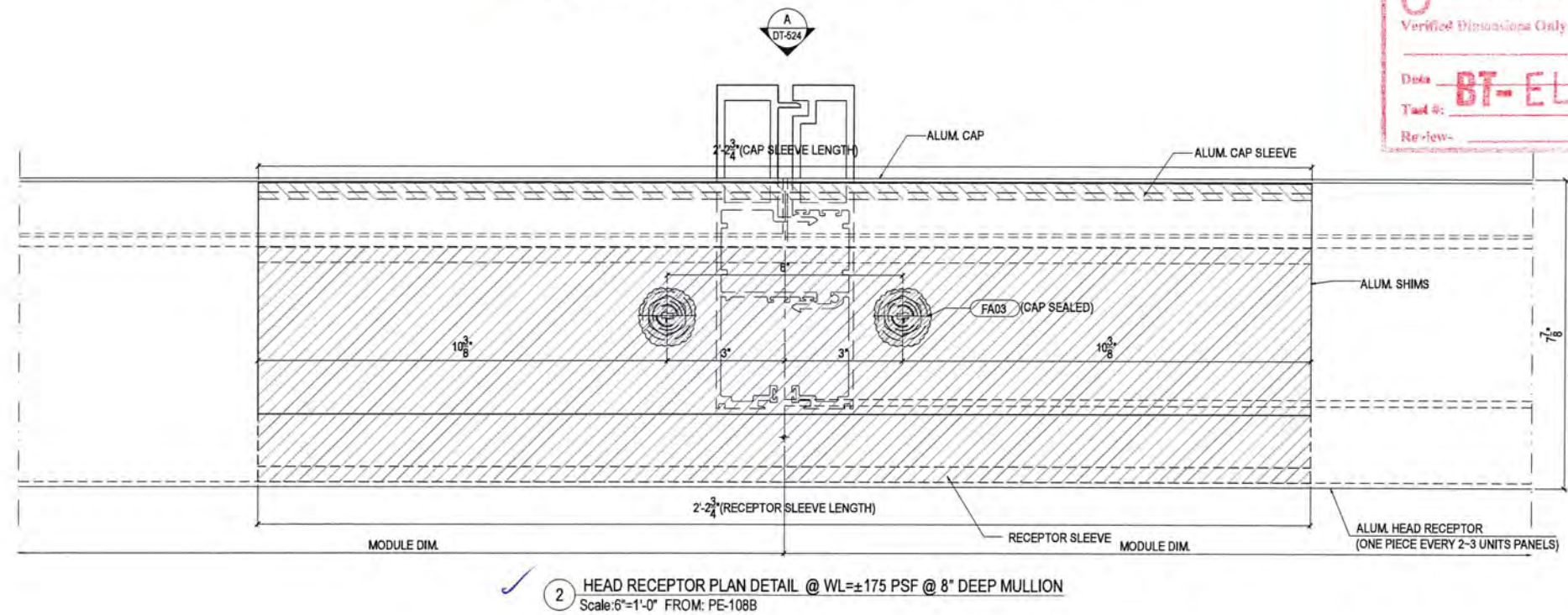
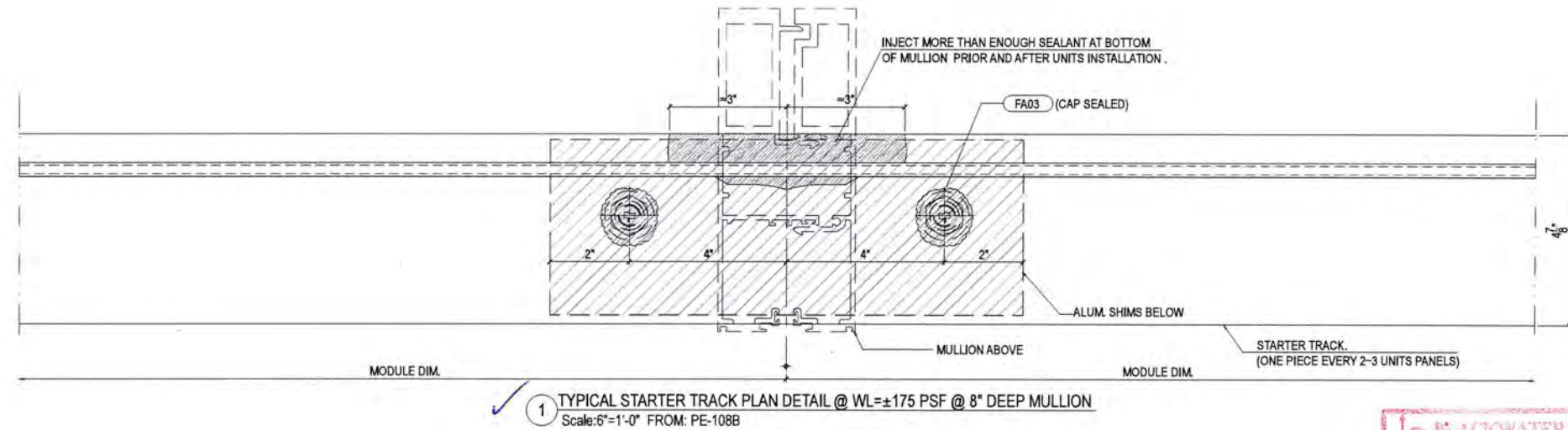
Title: PLAN DETAILS OF HEAD RECEPTOR

Sheet No.: DT-521C

Date: Oct. 29, 2024	Revision No.: -
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Scale: 6"=1'-0"	Size: 22"x34"
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Phase: Test Drawing



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Approved By:

Checked By:

Design Team:

TESTING SYSTEM:
ELICC-WW-200 SERIES

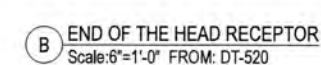
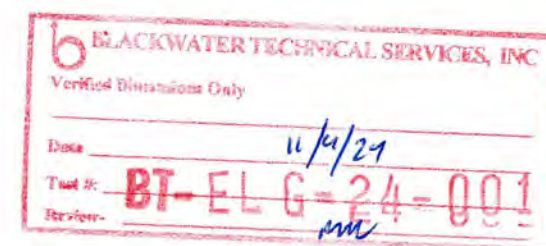
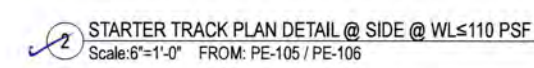
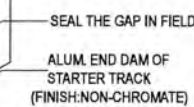
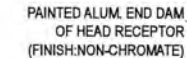
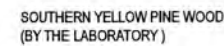
Title:
PLAN DETAILS OF
STARTER TRACK & HEAD
RECEPTOR @ 8" DEEP MULLION

Sheet No.: DT-521D

Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

Phase: Test Drawing



-	-	-
No.	Date	Description

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TESTING SYSTEM:

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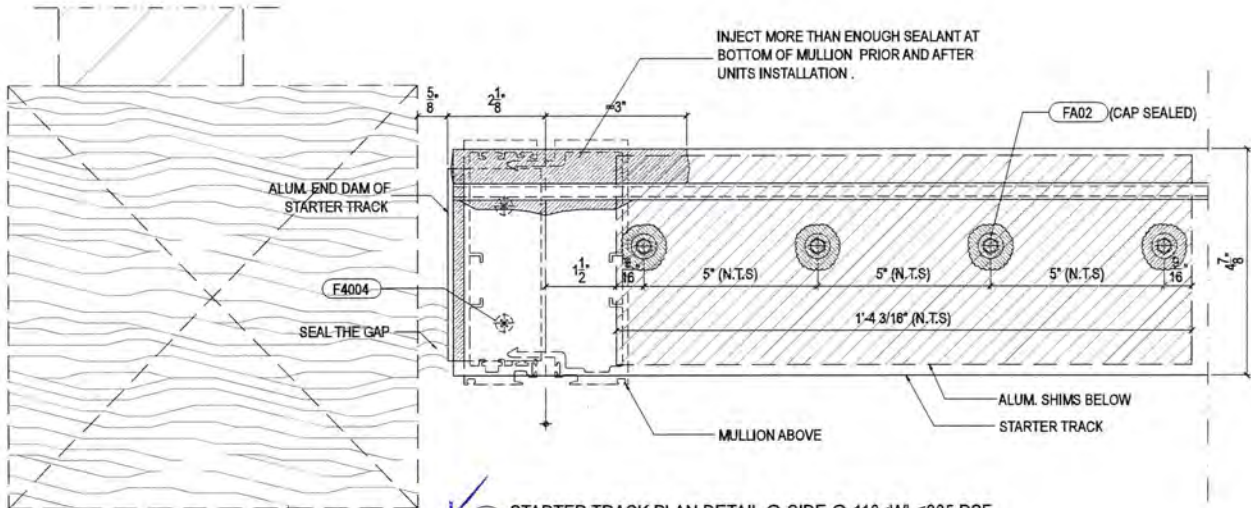
Title: PLAN DETAILS OF
STARTER TRACK & HEAD
RECEPTOR @ SIDE

Sheet No.: DT-522

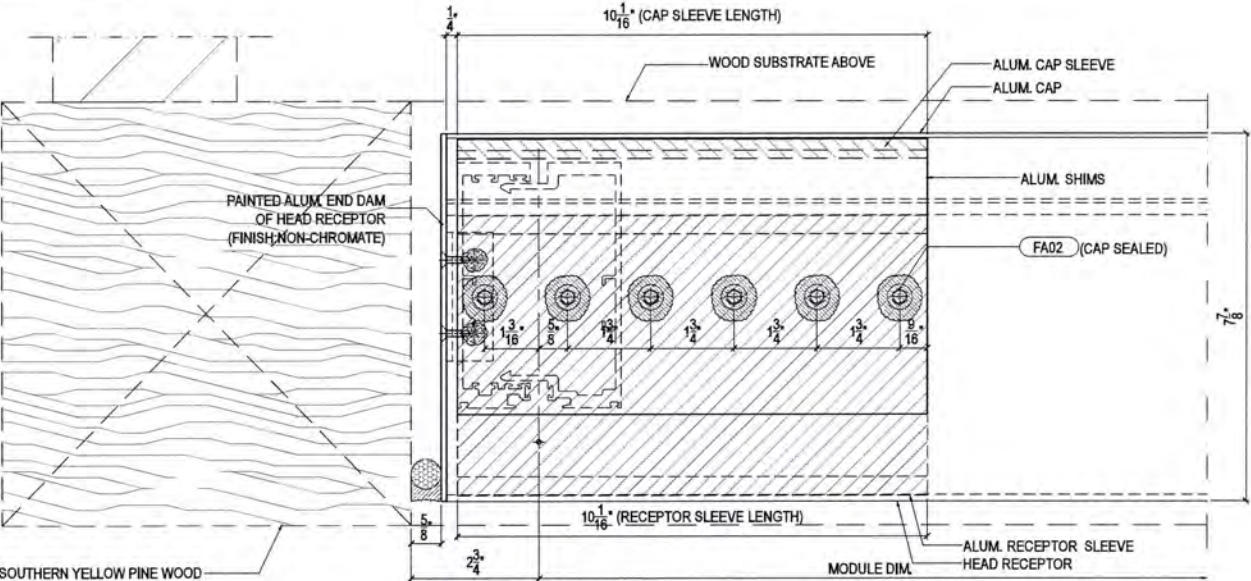
Date: Oct. 29, 2024	Revision No.: -
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Scale: 6"=1'-0"	Size: 22"x34"
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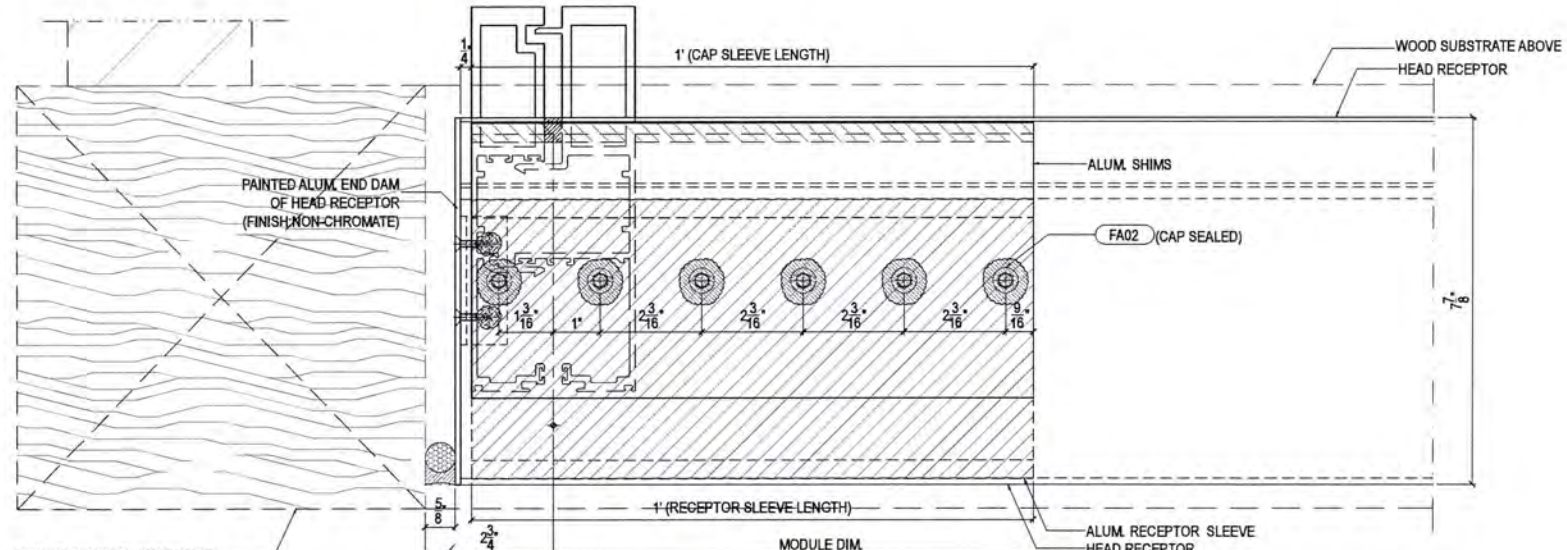
Phase: Test Drawing



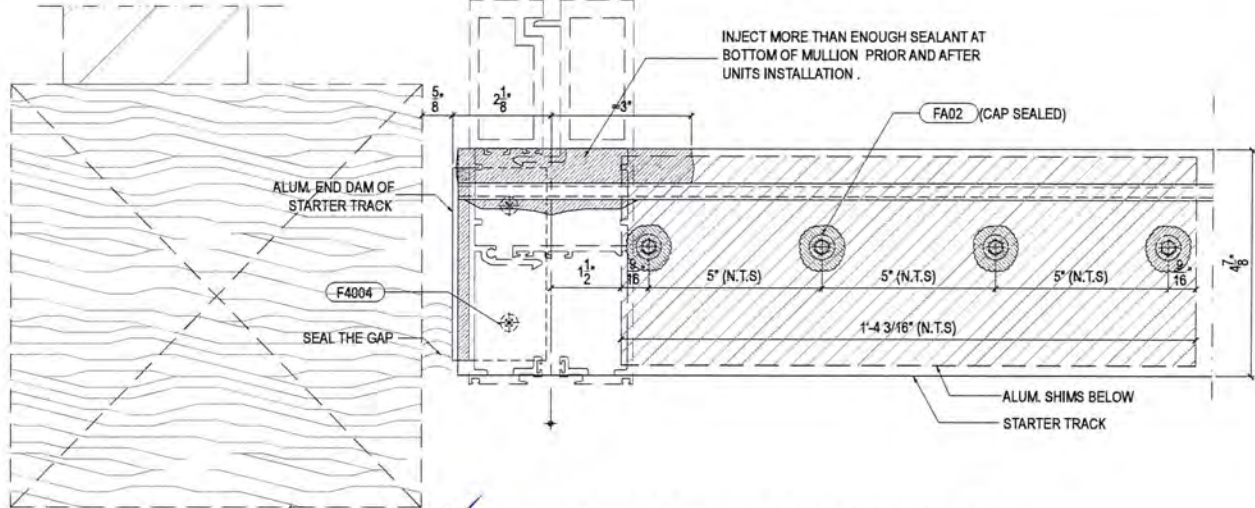
1 STARTER TRACK PLAN DETAIL @ SIDE @ 110<WL<205 PSF
Scale: 6"=1'-0" FROM: PE-107



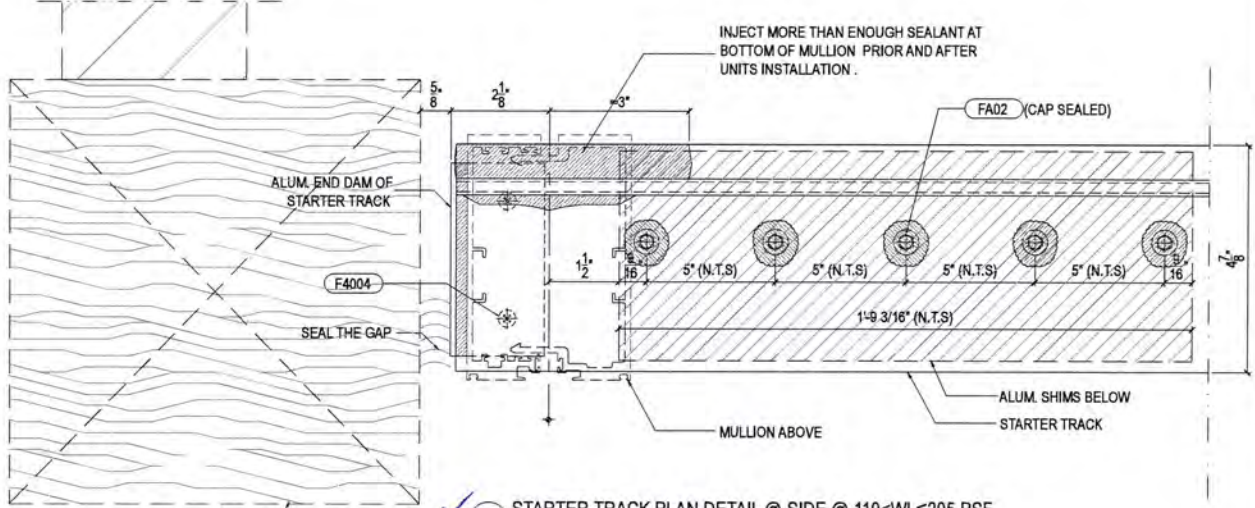
2 HEAD RECEPTOR PLAN DETAIL @ SIDE @ 160<WL<205 PSF
Scale: 6"=1'-0" FROM: PE-107



4 HEAD RECEPTOR PLAN DETAIL @ SIDE @ 8" DEEP MULLION
Scale: 6"=1'-0" FROM: PE-107B



3 STARTER TRACK PLAN DETAIL @ SIDE @ 8" DEEP MULLION
Scale: 6"=1'-0" FROM: PE-107B



5 STARTER TRACK PLAN DETAIL @ SIDE @ 110<WL<205 PSF
Scale: 6"=1'-0" FROM: PE-108

BLACKWATER TECHNICAL SERVICES, INC.
Verified Dimensions Only
Date: 11/4/24
Test #: BT-ELG-24-001
Review: mm

No.	Date	Description
Revisions:		

Issued By:



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Approved By:

Checked By:

Design Team:

TESTING SYSTEM:

ELICC-WW-200 SERIES

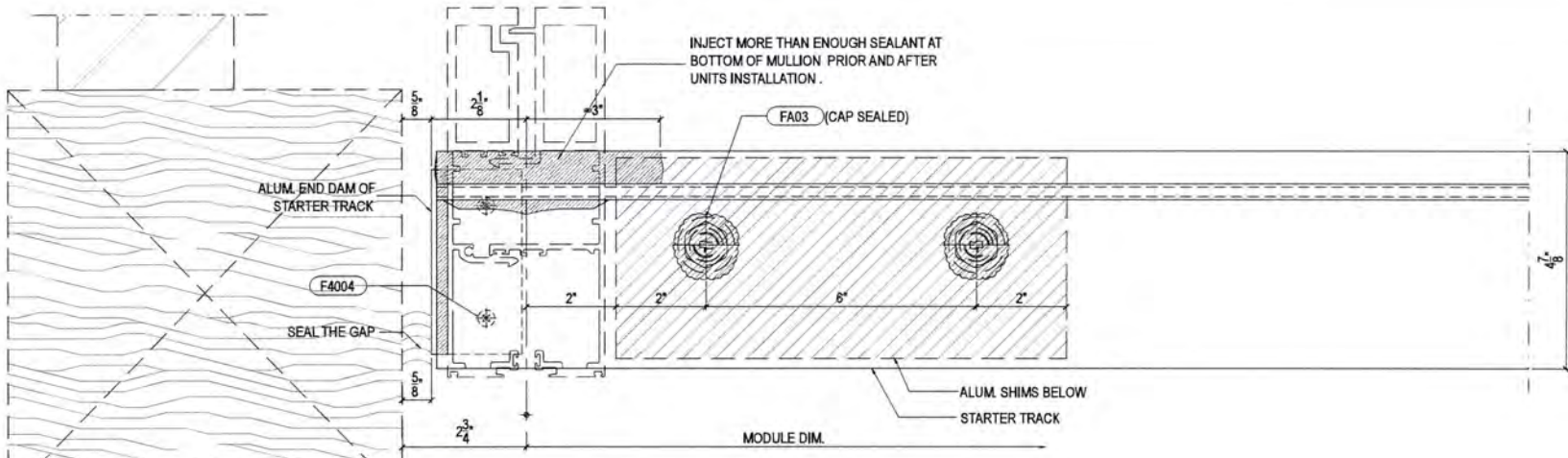
Title:
PLAN DETAILS OF
STARTER TRACK & HEAD
RECEPTOR @ SIDE

Sheet No.: DT-522B

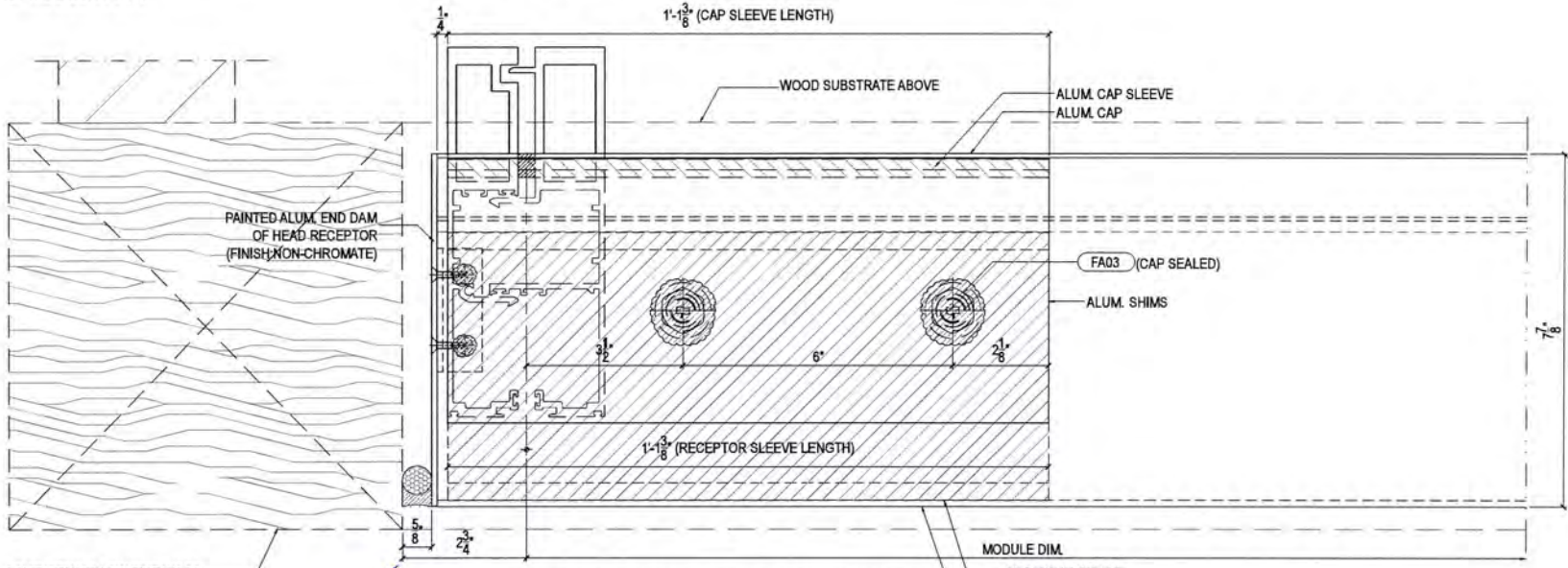
Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

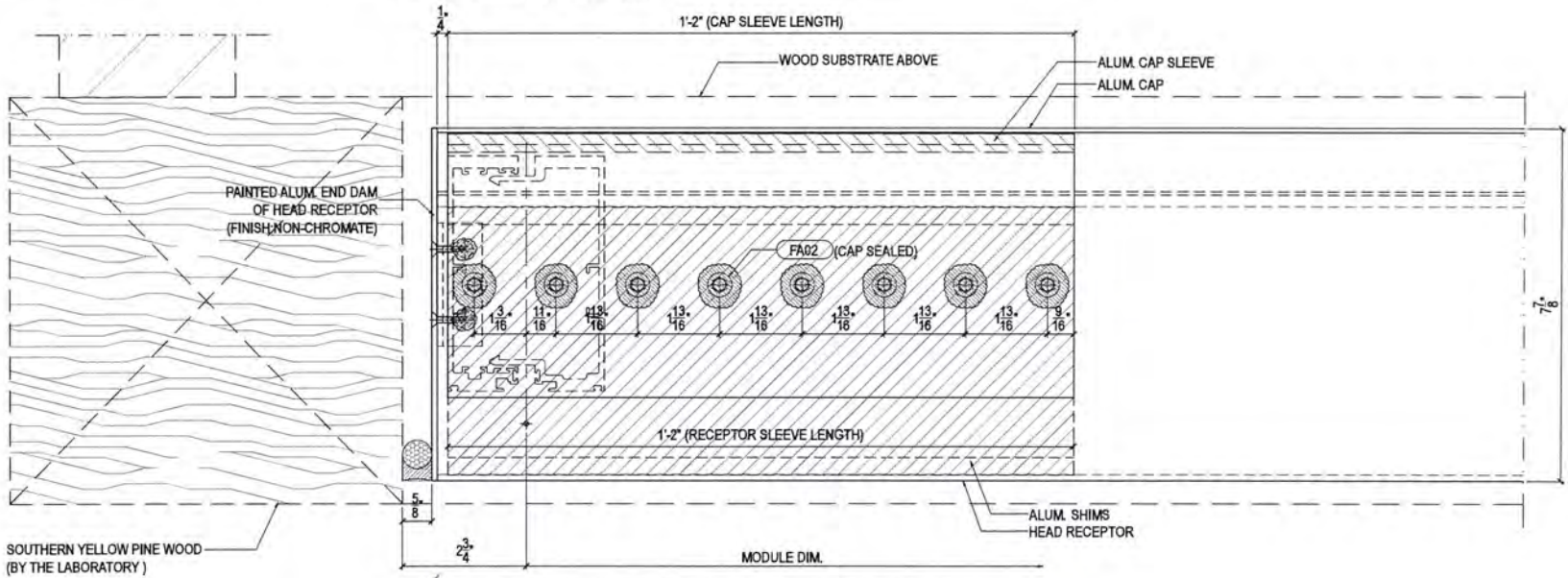
Phase: Test Drawing



1 STARTER TRACK PLAN DETAIL @ SIDE @ 8" DEEP MULLION
Scale: 6"=1'-0" FROM: PE-108B



2 HEAD RECEPTOR PLAN DETAIL @ SIDE @ 8" DEEP MULLION
Scale: 6"=1'-0" FROM: PE-108B



3 HEAD RECEPTOR PLAN DETAIL @ SIDE @ 160<WL<205 PSF
Scale: 6"=1'-0" FROM: PE-108



No.	Date	Description
Revisions:		

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Checked By:

Design Team:

TESTING SYSTEM:
ELICC-WW-200 SERIES

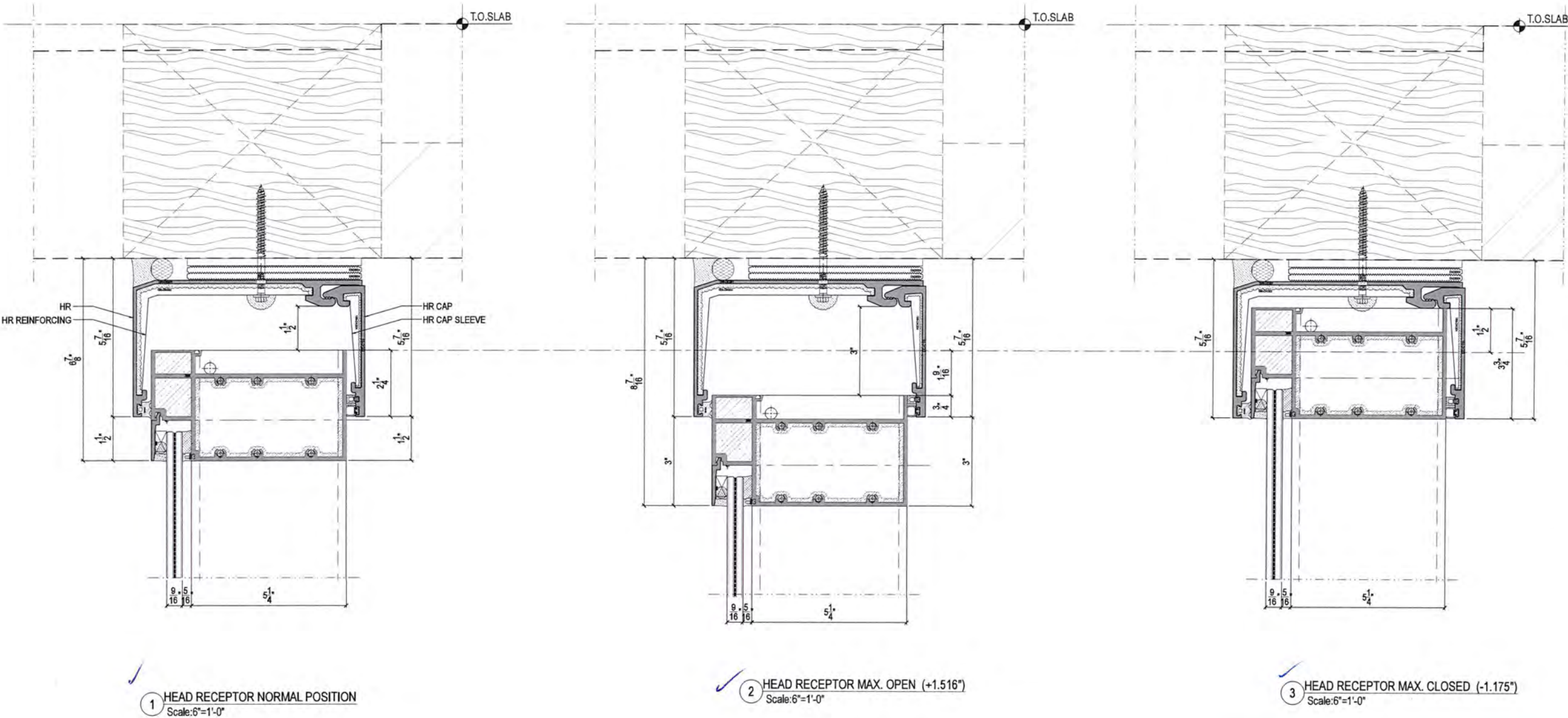
Title:
PLAN DETAILS OF
STARTER TRACK & HEAD
RECEPTOR @ SIDE

Sheet No.: DT-522C

Date: Oct. 29, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

Phase: Test Drawing



BLACKWATER TECHNICAL SERVICES, INC.
Verified Dimensions Only
Date: 11/4/24
Test #: BT-ELG-24-001
Review: WML

Deflection	OPEN	CLOSE
Total Stack Joint allowance	1.535" (39mm)	1.496" (38mm)

No.	Date	Description
Revisions:		

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ELICC GROUP

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13475 DANIELSON ST.
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Fax: (760)-233-0065

Approved By:

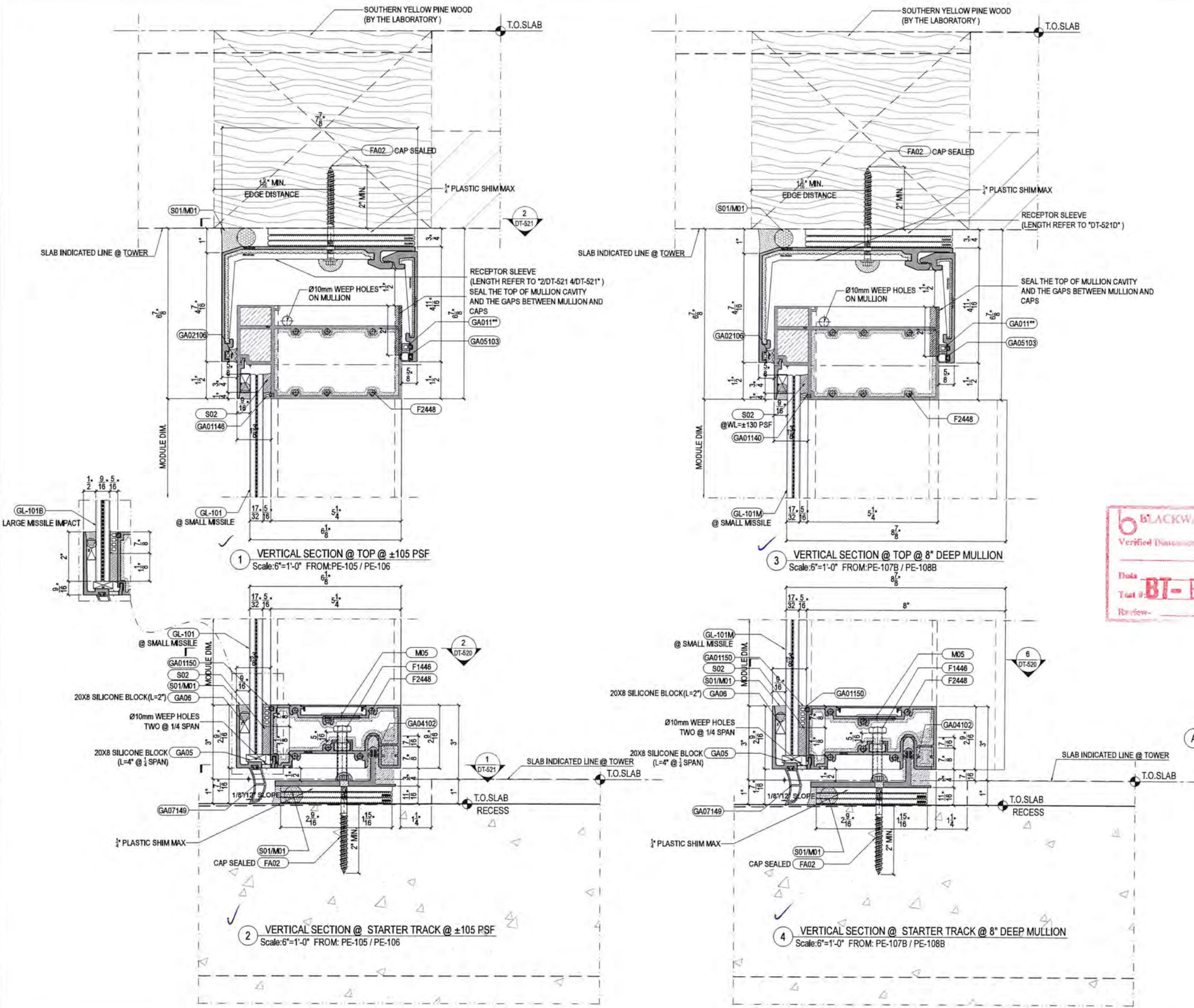
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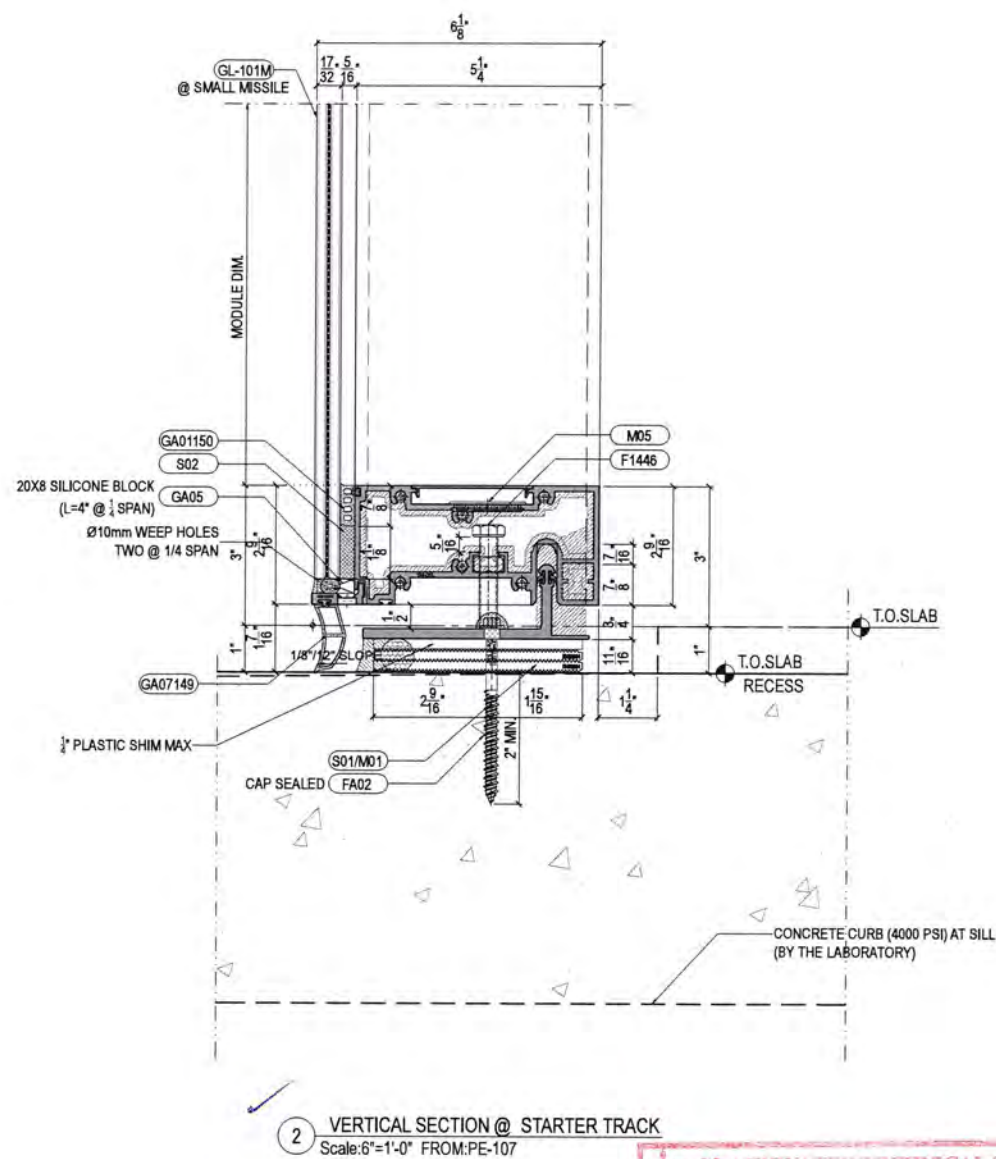
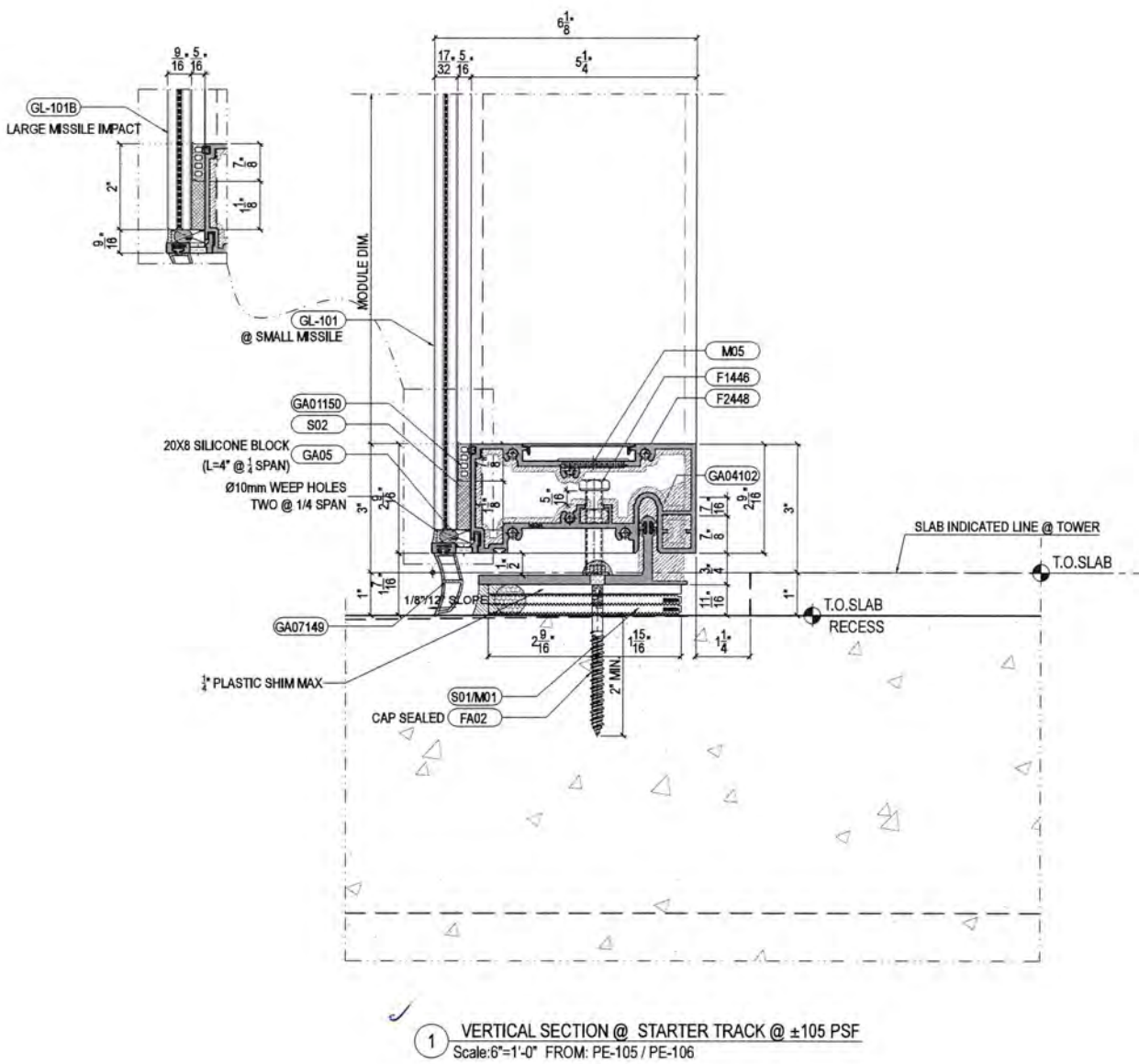
Design Team:

TESTING SYSTEM:
ELICC-WW-200 SERIES

Title:
VERTICAL MOVEMENT
@ WW SYSTEM

Sheet No.: DT-523	Revision No.: -
Date: Oct. 29, 2024	Size: 22"x34"
Scale: 6"=1'-0"	Phase: Test Drawing





BLACKWATER TECHNICAL SERVICES, INC
Verified Dimensions Only
Date: 11/4/24
Test #: BT-ELG-24-001
Review: nm

No.	Date	Description
Revisions:		

Issued By:



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Approved By:

Checked By:

Design Team:

TESTING SYSTEM:
ELICC-WW-200 SERIES

Title:
VERTICAL SECTION DETAIL

Sheet No.: DT-524B
Date: Oct. 29, 2024 Revision No.: -
Scale: 6"=1'-0" Size: 22"x34"
Phase: Test Drawing

20%
m TH

Technical drawing showing a vertical section at a starter track at an 8" deep mullion. The drawing includes various components and dimensions:

- GL-101M @ SMALL MISSILE
- MODULE DIM
- 20X10 SILICONE BLOCK (L=2") GA06
- Ø10mm WEEP HOLES TWO @ 1/4 SPAN
- 20X8 SILICONE BLOCK (L=4" @ 1/2 SPAN) GA05
- GA07149
- 1/2" PLASTIC SHIM MAX
- CAP SEALED
- S01/M01
- FA03
- GA01150
- S02
- M05
- F1446
- F2448
- GA04102
- SLAB INDICATED LINE @ TOP
- T.O. SLAB
- T.O. SLAB RECESS
- STEEL HOLLOW (BY THE LABORATORY)

Dimensions (inches):

- 17.5" / 32.16"
- 8"
- 9.16"
- 2.9" / 16"
- 3"
- 1.7" / 16"
- 1"
- 1/8" / 16"
- 1/8" / 16"
- 2.9" / 16"
- 2" MIN.
- 11.5" / 16"
- 1.4"
- 11" / 16"
- 7.1" / 16"
- 2.9" / 16"
- 3"

Notes:

- (4000 PSI) AT SILL (ORY)
- 6 DT-520

Scale: 6"=1'-0" FROM: PE-107B / PE-108B

-	-	-
No.	Date	Description

Revisions:



Phase: Test Drawing