



Farabaugh Engineering and Testing Inc.

Project No. T364-25

Report Date: December 22, 2025

No. Pages: 29 (inclusive)

PERFORMANCE TEST REPORT TAS 201, 202 & 203

**FL PANEL SYSTEM
48"/96 3/4" WIDE X 48" HIGH X 0.080 ALUMINUM PANEL
WITH STIFFENERS @ 16" O.C.
(TESTED WEEK OF 11/3/25 – ROUND 6 – SPECIMEN #17)**

FOR

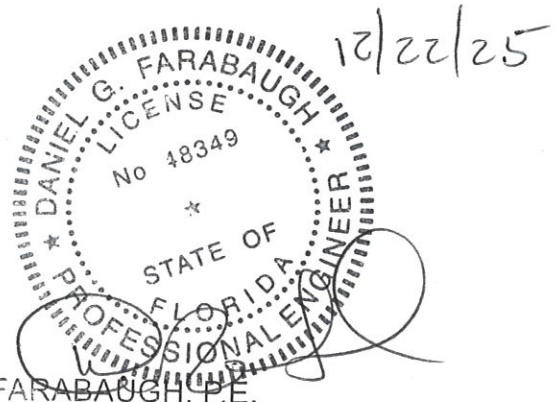
DRI-DESIGN
12480 SUPERIOR CT. SUITE #1
HOLLAND, MI. 49424

Prepared by:

Paul G. Farabaugh

Approved by:

Daniel G. Farabaugh PE.



DANIEL G. FARABAUGH, P.E.
255 Saunders Station Rd
Trafford, PA 15085
412-417-5153



PERFORMANCE TEST REPORT

Test Specimen

Manufacturer: Dri-Design
12480 Superior Court
Holland, MI 49424

Panel: FL Metal Panel, Panel perimeter length was 48", 96 ¾" wide x 48" high. See installation drawings for panel coverage dimension. Panels consisted of 0.080" aluminum skin bonded with 0.080" aluminum "U" stiffeners spaced 16" o.c. using 3M G16 VHB tape. See panel drawing for fabrication of each panel. Note: All stiffeners and perimeter supports were shop applied. See panel layout for location of panels and location of stiffeners on each panel.

Substrate: 5/8" Dens Glass

Supports: C8 x 16 ga. steel channel supports

Test Date Completion: 11/19/2025

Design Pressure

SPECIMEN A, B, C = +70 PSF / -70 PSF

Test Witness:

Daniel G. Farabaugh, PE (Florida PE. #0048349)
255 Saunders Station Road
Trafford, PA. 15085

Test Procedure

The tests were conducted in accordance with the following test methods:

- Testing Application Standard (TAS) 201-94 (Large Missile Test)
- Testing Application Standard (TAS) 202-94 Criteria for Testing Impact and Non Impact Resistant Building Envelope Components Using Static Air Pressure.
- Testing Application Standard (TAS) 203-94 Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.

Test Assembly

- The test specimen mock-up consisted of metal panel system that measured as 12'-1"4" wide x 8'-4" high (approximately). The mock-up had two panels on the bottom with three horizontal panels on top. See Drawing 1 of 16 for layout of panels and panel dimensions. The mock-up support framing consisted of 16 ga. steel horizontal studs spaced at 16" o.c. that attached to a 16 ga. track at the ends of the studs.
- On top of the stud supports was a layer of 5/8" thick DensGlass that was attached to the metal studs with #6 x 1-1/4" long, #2 self drill pt. drywall screws with a spacing of 8" o.c. along each horizontal stud support. 16 ga. steel hat girts located at 16" o.c. were attached vertically to the top of the DensGlass and into the horizontal stud supports that were perpendicular to the girts using (2) 1/4"-14 x 1-1/2" long, hex head, self-drilling fasteners.
- The panels were then attached into 16ga. vertical steel girt supports that were located at 16" o.c. A single extruded aluminum start track was attached to the studs with (2) 1/4"-14 x 1-1/2" long, hex head, self-drilling fasteners at each support. The bottom panels slid under the starter track leg. The panel was fastened to the steel girt supports with (2) 1/4"-14 x 1-1/2" long, hex head, self-drilling fasteners at each girt support. The next column of panels slid under the first set of panels and the opposite end was fastened to the steel girts located at 16" o.c. using same fasteners. See installation drawings for fastener locations and panel installation.
- 4 mil Plastic Sheeting was placed over top face of panel for the positive direction testing and then the panel had the plastic covering between the DensGlass substrate and the exposed back of the panel and tested in the negative direction.

TAS 201-94 LARGE MISSILE IMPACT TEST

TEST SPECIMEN #: A

SPECIMEN: FL Metal Panel, 0.080" thick aluminum panel with 16" o.c. stiffeners

MANUFACTURER: DRI DESIGN

WT OF MISSILE & SABOT: 9.1 LB

IMPACT #1

LOCATION: CENTER OF 4' PANELS HORIZONTAL JOINT

MISSILE VELOCITY: 51.49 FT/SEC

MAX DEFLECTION: 1/4"

PERMANENT DEFORMATION ON FRONT FACE: 3/4"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #2

LOCATION: CENTER OF 4' AND 8' PANEL VERTICAL JOINT.

MISSILE VELOCITY: 50.98 FT/SEC

MAX DEFLECTION: 3/4"

PERMANENT DEFORMATION ON FRONT FACE: 2-7/16"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #3

LOCATION: MIDSPAN/MIDDLE OF 8' PANEL

MISSILE VELOCITY: 51.24 FT/SEC

MAX DEFLECTION: 1/4"

PERMANENT DEFORMATION ON FRONT FACE: 11/16"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

NOTE: See Large Missile Impact drawing for actual locations of impacted areas.

TAS 201-94 LARGE MISSILE IMPACT TEST (cont.)

TEST SPECIMEN #: **B**

SPECIMEN: FL Metal Panel, 0.080" thick aluminum panel with 16" o.c. stiffeners

MANUFACTURER: DRI DESIGN

WT OF MISSILE & SABOT: 9.1 LB

IMPACT #1

LOCATION: MIDSPAN/MIDDLE OF 4' PANEL

MISSILE VELOCITY: 51.61 FT/SEC

MAX DEFLECTION: 1/4"

PERMANENT DEFORMATION ON FRONT FACE : 3/8"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #2

LOCATION: CORNER OF 4' PANEL 6" FROM TOP TIEDOWN

MISSILE VELOCITY: 51.81 FT/SEC

MAX DEFLECTION: 3/8"

PERMANENT DEFORMATION ON FRONT FACE: 5/8"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #3

LOCATION: CENTER OF 4' AND 8' PANEL VERTICAL JOINT.

MISSILE VELOCITY: 50.92 FT/SEC

MAX DEFLECTION: 7/8"

PERMANENT DEFORMATION ON FRONT FACE: 1-1/16"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #4

LOCATION: MIDSPAN/MIDDLE OF 8' PANEL

MISSILE VELOCITY: 50.00 FT/SEC

MAX DEFLECTION: 3/8"

PERMANENT DEFORMATION ON FRONT FACE: 1/4"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

NOTE: See Large Missile Impact drawing for actual locations of impacted areas.

TAS 201-94 LARGE MISSILE IMPACT TEST (cont.)

TEST SPECIMEN #: C

SPECIMEN: FL Metal Panel, 0.080" thick aluminum panel with 16" o.c. stiffeners

MANUFACTURER: DRI DESIGN

WT OF MISSILE & SABOT: 9.1 LB

IMPACT #1

LOCATION: MIDSPAN/MIDDLE OF 4' PANEL

MISSILE VELOCITY: 50.43 FT/SEC

MAX DEFLECTION: 1/8"

PERMANENT DEFORMATION ON FRONT FACE: 5/16"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #2

LOCATION: CENTER OF 4' AND 8' PANELS HORIZONTAL JOINT.

MISSILE VELOCITY: 50.60 FT/SEC

MAX DEFLECTION: 1/4"

PERMANENT DEFORMATION ON FRONT FACE: 5/16"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

IMPACT #3

LOCATION: MIDSPAN/MIDDLE OF 4' PANEL

MISSILE VELOCITY: 50.91 FT/SEC

MAX DEFLECTION: 1/4"

PERMANENT DEFORMATION ON FRONT FACE: 5/8"

RESULTS: SOME DEFORMATION OF PANEL; NO PENETRATIONS - PASS

NOTE: See Large Missile Impact drawing for actual locations of impacted areas.

TAS 203-94

CYCLIC WIND PRESSURE LOADING

TEST SPECIMENS: A, B, C

SPECIMEN: 4' wide FL Metal Panel, 0.080" thick aluminum panel w/16" o.c. stiffeners

DESIGN PRESSURE: +70 PSF / -70 PSF

INWARD (+) ACTING PRESSURE

RANGE	TEST PRESSURE (PSF)	NUMBER OF CYCLES
0 TO 0.5P	0 TO 35	600
0 TO 0.6P	0 TO 42	70
0 TO 1.3P	0 TO 91	1

SPECIMEN	MAX NET. DEFLECTION (IN)	MAX. NET PERMANENT SET (IN)
A	1.123	0.080
B	0.915	0.079
C	0.992	0.051

OUTWARD (-) ACTING PRESSURE

RANGE	TEST PRESSURE (PSF)	NUMBER OF CYCLES
0 TO 0.5P	0 TO 35	600
0 TO 0.6P	0 TO 42	70
0 TO 1.3P	0 TO 91	1

SPECIMEN	MAX NET. DEFLECTION (IN)	MAX NET. PERMANENT SET (IN)
A	0.800	0.079
B	0.897	0.085
C	0.771	0.066

RESULTS

Upon completion of the cycles at the pressures noted above, there were no noticeable failures of the specimens.

TAS 203-94 CYCLIC WIND PRESSURE LOADING(CONT.)

TEST SPECIMENS: A, B, C

SPECIMEN: 8' wide FL Metal Panel, 0.080" thick aluminum panel w/16" o.c. stiffeners

DESIGN PRESSURE: +70 PSF / -70 PSF

INWARD (+) ACTING PRESSURE

RANGE	TEST PRESSURE (PSF)	NUMBER OF CYCLES
0 TO 0.5P	0 TO 35	600
0 TO 0.6P	0 TO 42	70
0 TO 1.3P	0 TO 91	1

SPECIMEN	MAX NET. DEFLECTION (IN)	MAX. NET PERMANENT SET (IN)
A	0.963	0.063
B	1.395	0.075
C	1.200	0.110

OUTWARD (-) ACTING PRESSURE

RANGE	TEST PRESSURE (PSF)	NUMBER OF CYCLES
0 TO 0.5P	0 TO 35	600
0 TO 0.6P	0 TO 42	70
0 TO 1.3P	0 TO 91	1

SPECIMEN	MAX NET. DEFLECTION (IN)	MAX NET. PERMANENT SET (IN)
A	1.489	0.141
B	1.315	0.118
C	1.284	0.122

RESULTS

Upon completion of the cycles at the pressures noted above, there were no noticeable failures of the specimens.

TAS 202-94

UNIFORM STATIC AIR PRESSURE TEST

TEST SPECIMEN "A"

SPECIMEN: 4' wide FL Metal Panel, 0.080" thick aluminum panel w/16" o.c. stiffeners

DESIGN PRESSURE = +70 psf / -70 psf

UNIFORM STATIC AIR PRESSURE TEST AT DESIGN LOAD

Test Load (psf)	Max. Net Deflection (in)
+70	0.6
-70	0.6

UNIFORM STATIC AIR PRESSURE TEST AT 1.5 X DESIGN LOAD

Test Load (psf)	Max. Net Permanent Set (in)
+105	0.05
-105	0.12

Results

Upon completion of the pressures noted above there were no noticeable failures of the specimen.

TEST SPECIMEN "A"

SPECIMEN: 8' wide FL Metal Panel, 0.080" thick aluminum panel w/16" o.c. stiffeners

DESIGN PRESSURE = +70 psf / -70 psf

UNIFORM STATIC AIR PRESSURE TEST AT DESIGN LOAD

Test Load (psf)	Max. Net Deflection (in)
+70	0.8
-70	0.8

UNIFORM STATIC AIR PRESSURE TEST AT 1.5 X DESIGN LOAD

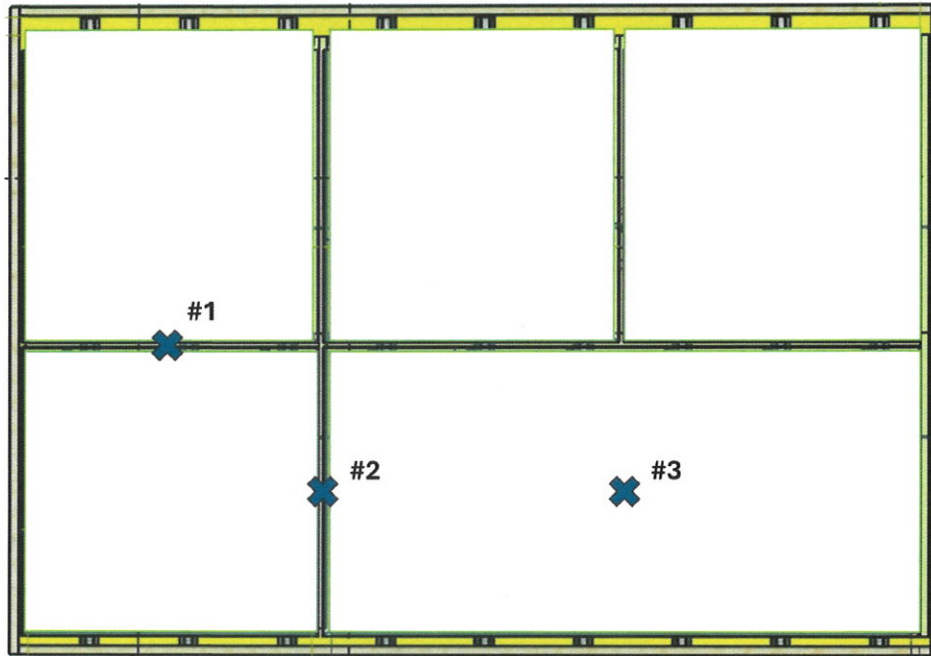
Test Load (psf)	Max. Net Permanent Set (in)
+105	0.15
-105	0.36

Results

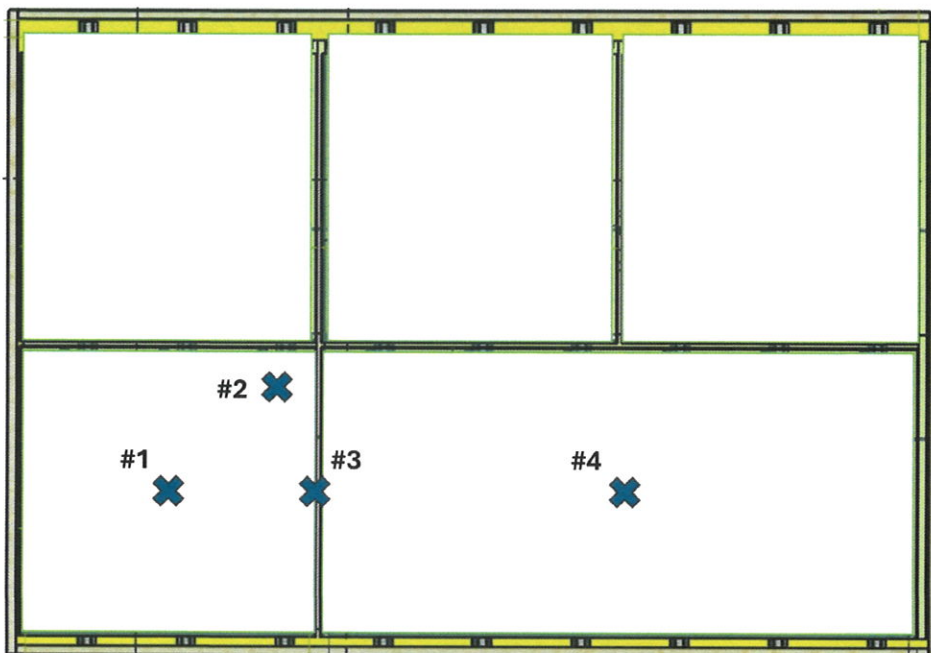
Upon completion of the pressures noted above there were no noticeable failures of the specimen.

TAS 201 LARGE MISSILE TEST SHOT LOCATIONS

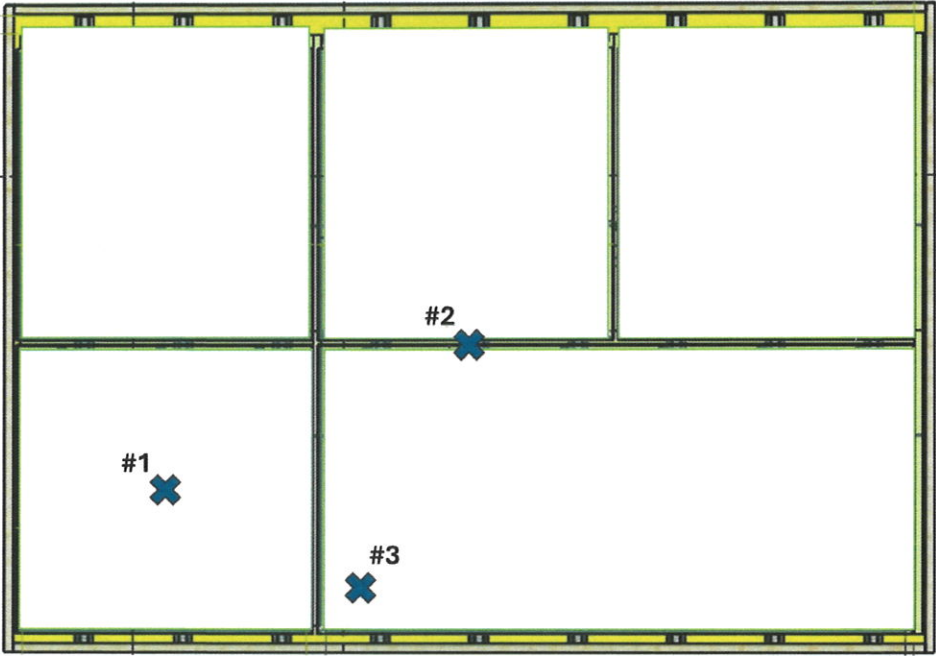
SPECIMEN A

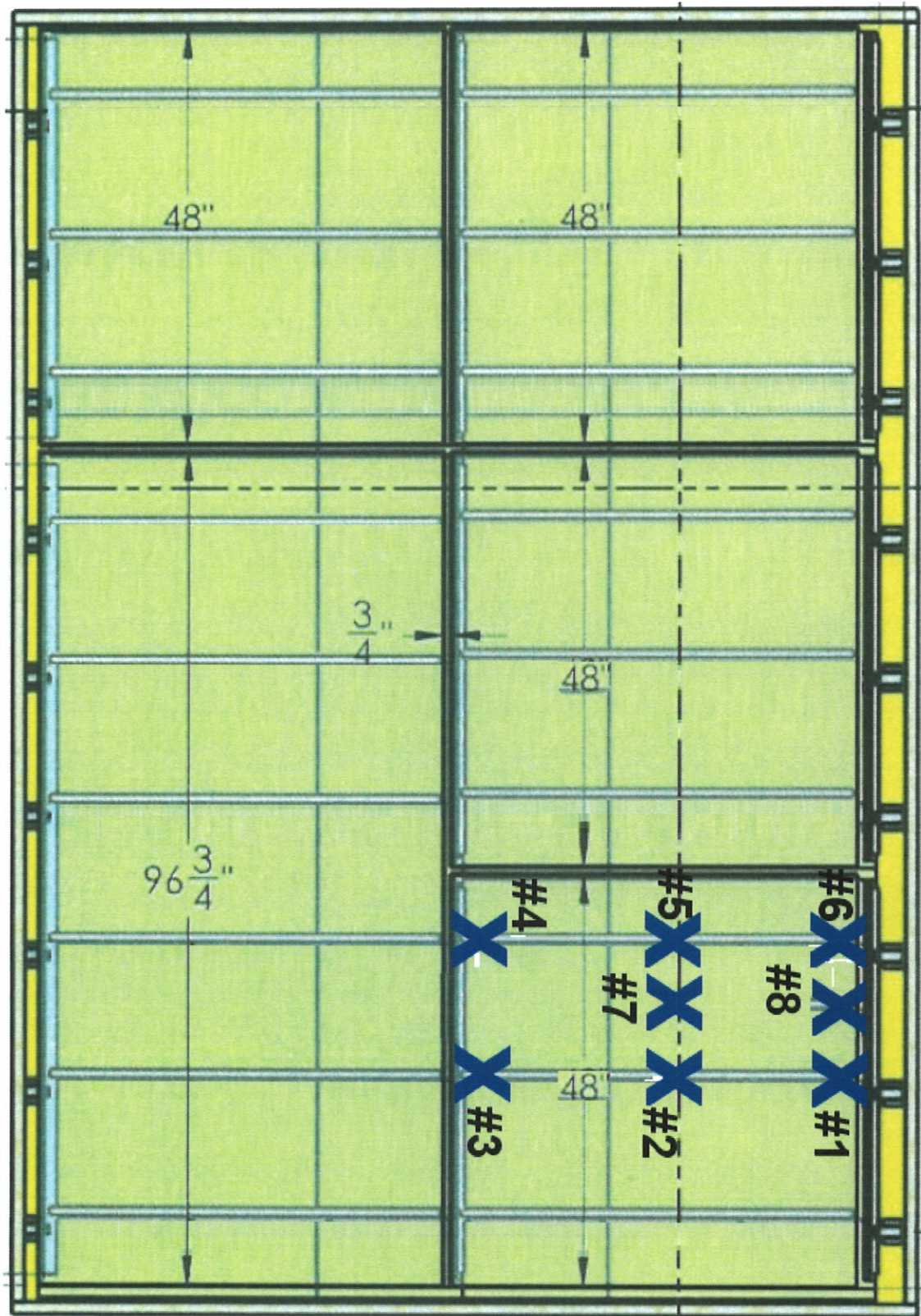


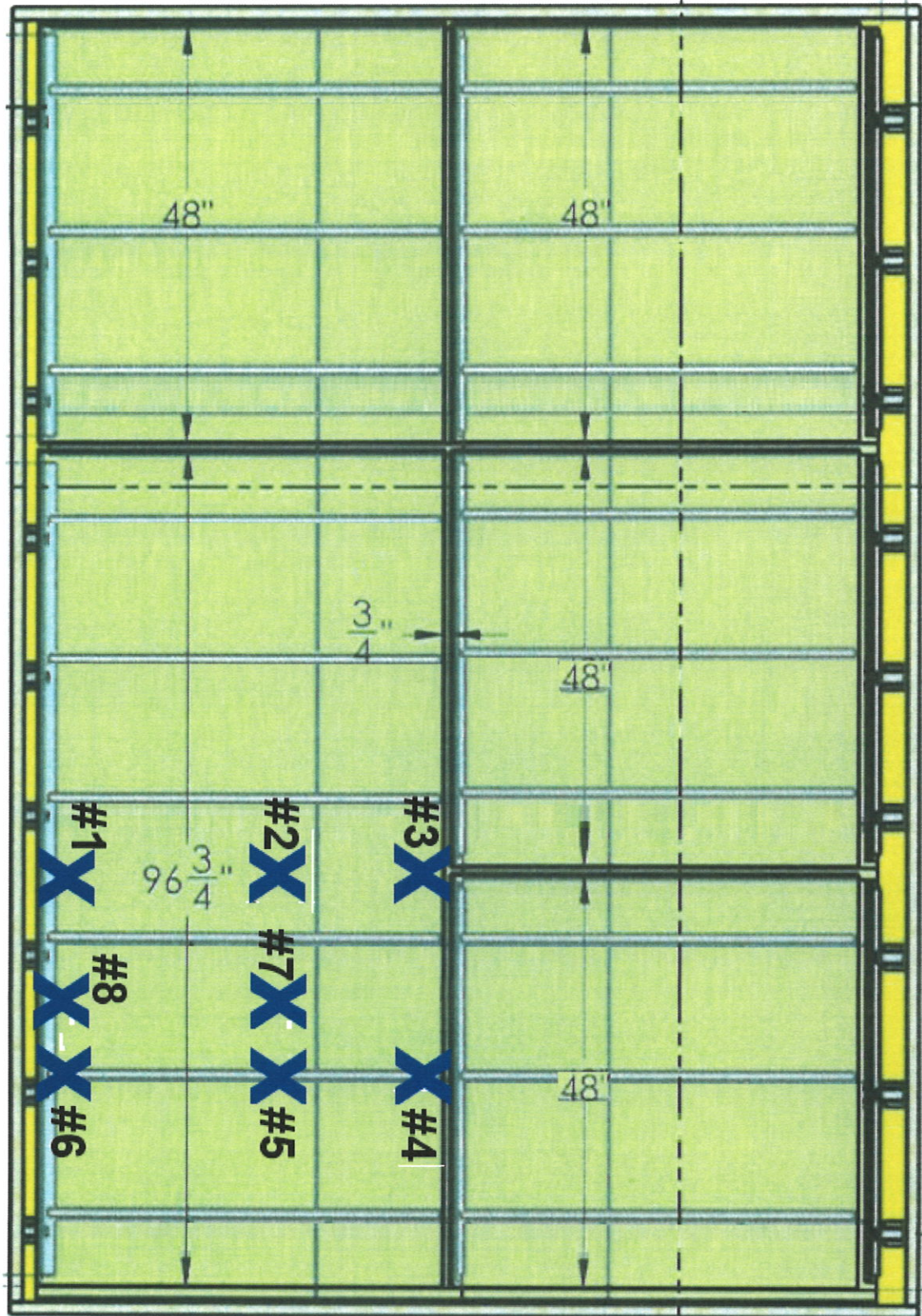
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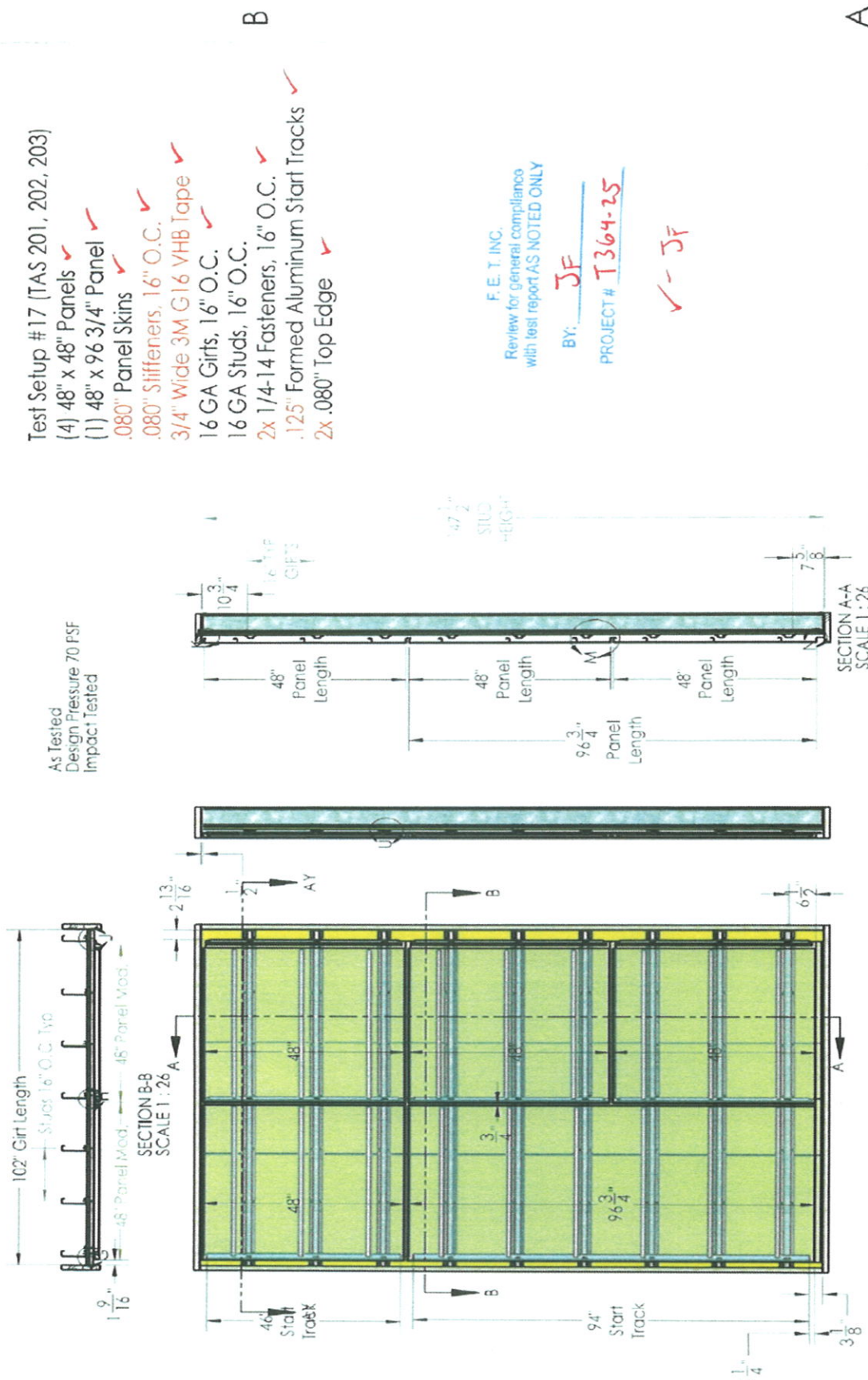


SPECIMEN C

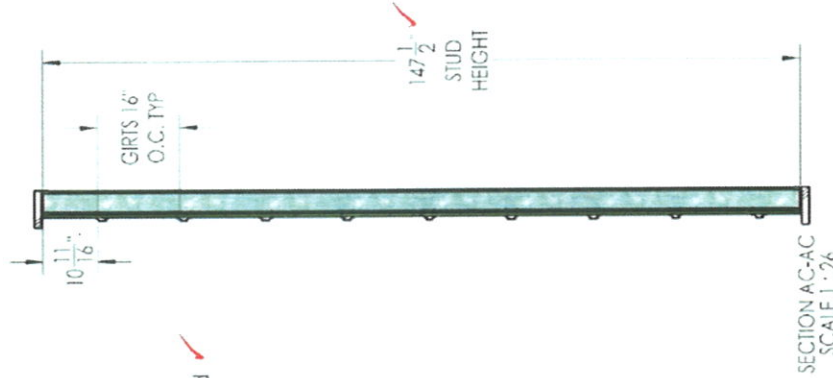
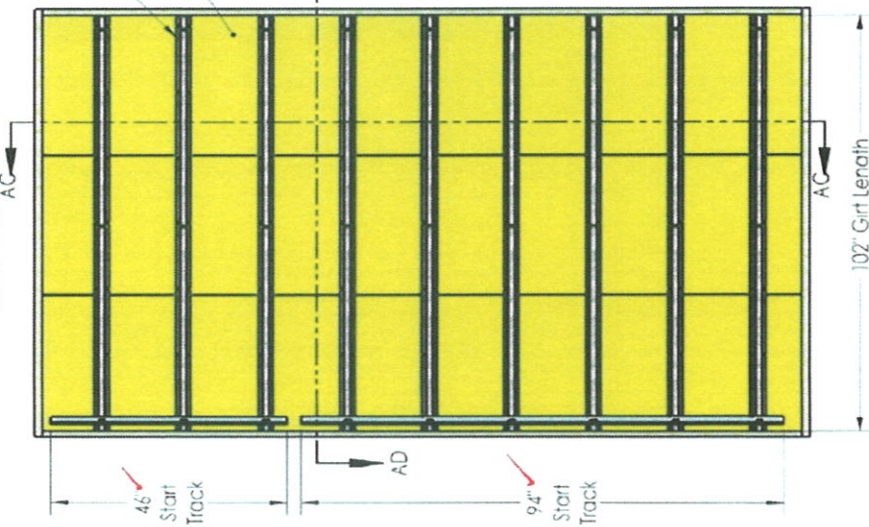
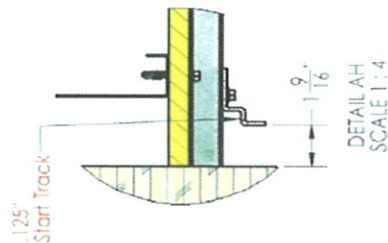
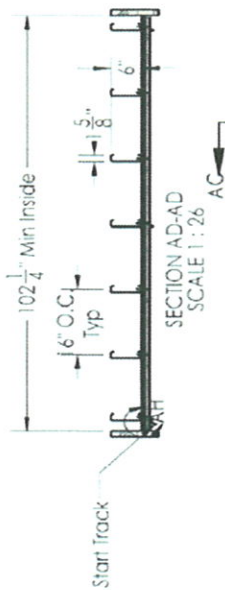


TAS 202 & TAS 203 DEFLECTOMETER LOCATIONS**4' Panel**

8' Panel



START TRACKS AND GIRTS BY DRI-DESIGN ON TEST BUCK BY FET



F. E. T. INC.
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with test report AS NOTED ONLY
BY: **JF**
PROJECT # **T364-25**

✓ - JF

A

SECTION AC-AC
SCALE 1:26

NAME DATE

INLET CHARGE REVISIONS
DRAWN: [] CHECKED: []
TOLERANCES: []
FRACTIONS: []
ANGULAR MATCH: []
TWO PLACE DECIMAL: []
THREE PLACE DECIMAL: []
G.A. []
COMMENTS: []
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REVISIONS: []

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Test Assembly 080
R5 T17

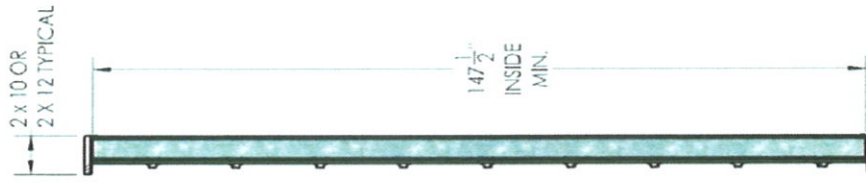
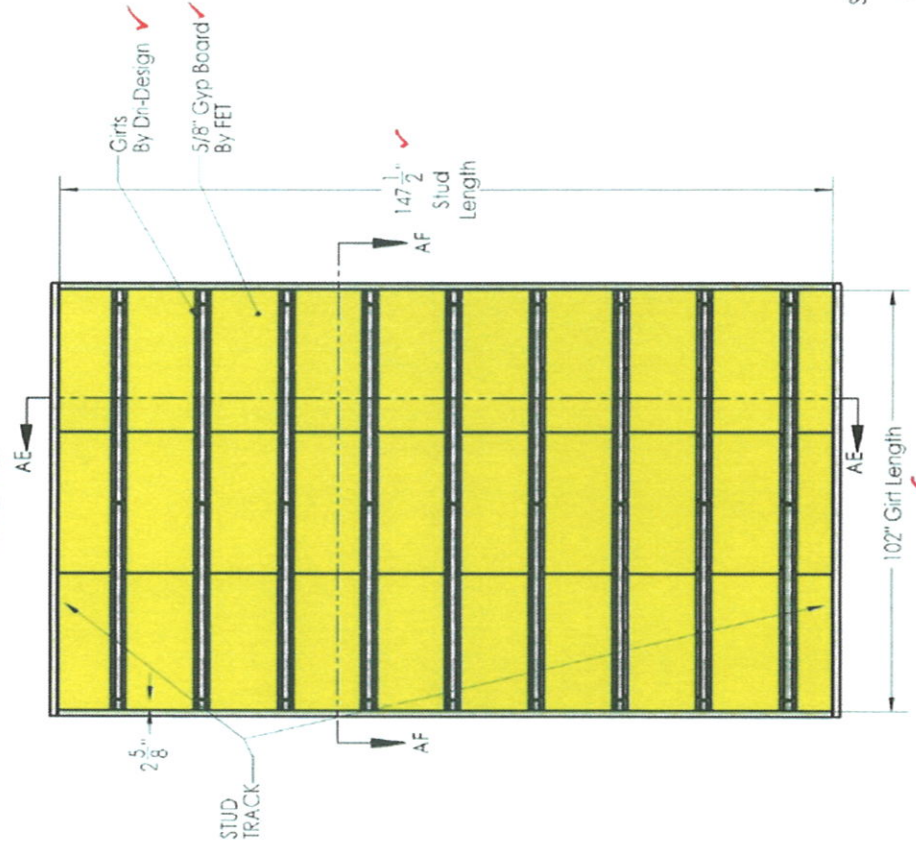
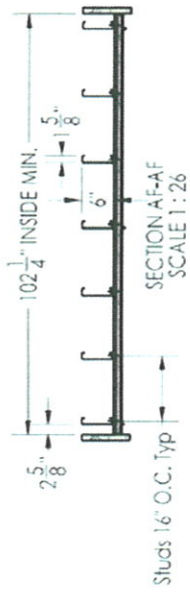
SIZE DWG. NO. **B**

REV **As Tested**

SCALE 1:24 WEIGHT: SHEET 2 OF 15

NOTATION AND COMMENTS
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TEST BUCK BY FET - USE FOR ALL FL T AS TESTS



B

A

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BY: JF
PROJECT # T364-25
✓ - JF

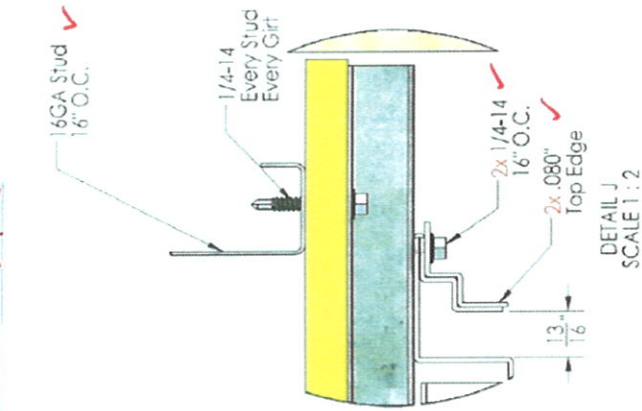
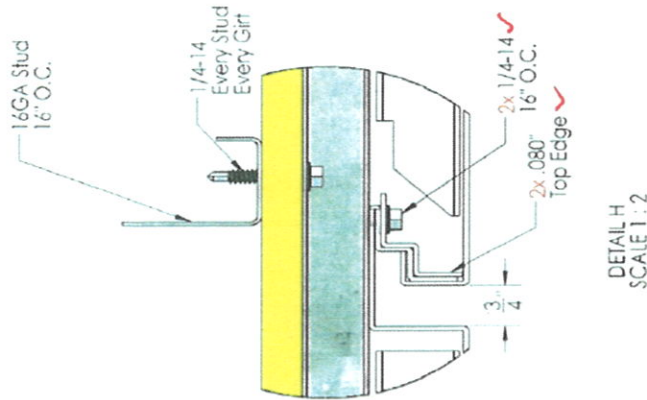
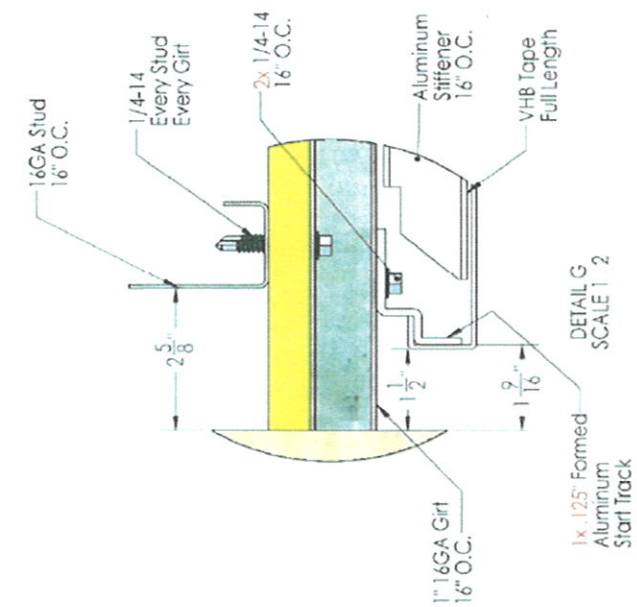
TITLE:
Test Assembly 080
R5 T17
SIZE DWG. NO. **B** REV **As Tested**
SCALE: 1/24 WEIGHT: SHEET 3 OF 15

NAME	DATE
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DIMENSIONS ARE IN INCHES	GRAIN
FRACTIONS ARE IN INCHES	CHECKED
ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE	ENG. APPR.
ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE	MEG APPR.
ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE	G.A.
ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE	CONTRACTOR
ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE	MAKER
ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE	FINISH
ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE	NOT LAST
ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE	FIELD ON
ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE	APPROVAL
ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE	DO NOT SCALE DRAWING

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Vertical Panel Joints

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 PROJECT # **T364-25**



A

UNLESS OTHERWISE SPECIFIED

REVISION	DATE	BY	CHKD	APP'D
1		JF		

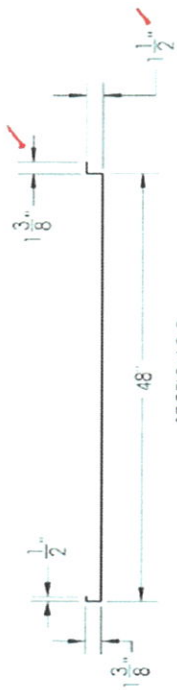
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 R5 T17

SIZE DWG. NO. **B** REV **As Tested** SHEET 4 OF 15

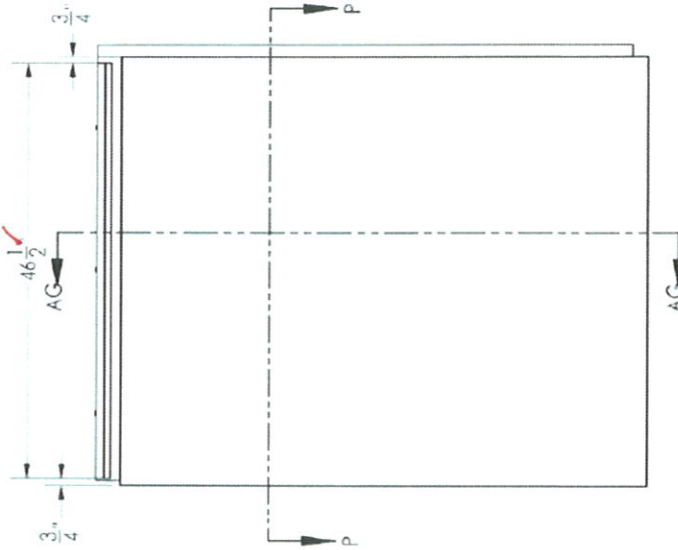
SCALE: 1/2" = 1'-0"

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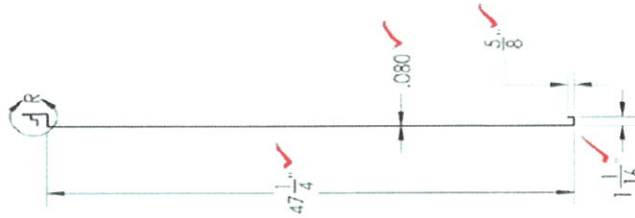
Panel Skin .080" x 48"



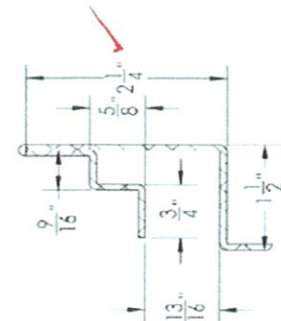
SECTION P-P



B



SECTION A-A



DETAIL
SCALE 1:1.5

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PROJECT # T364-25

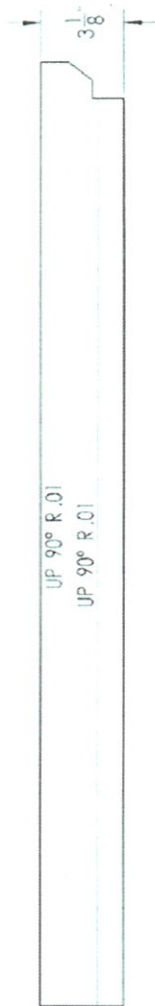
✓ - JF

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTIONS DECIMALS
ANGULARS: MAXIMUM MINIMUM
TWO PLACE DECIMAL
THREE PLACE DECIMAL
G.A.
COMMENTS

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DATE 08/08/2015 BY 0808/08/2015
REASON FOR DECLASSIFICATION
DATE 08/08/2015 BY 0808/08/2015
REASON FOR DECLASSIFICATION

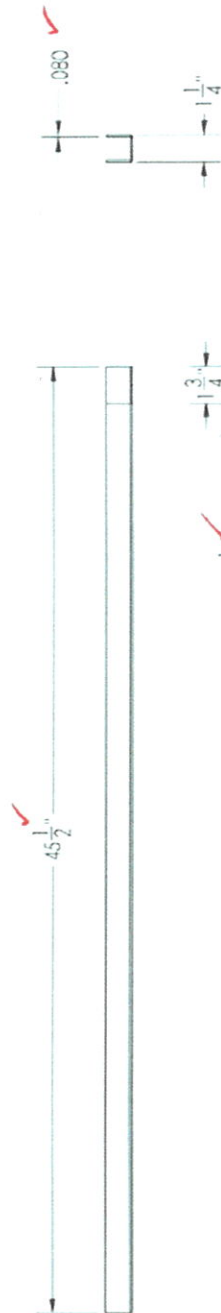
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Test Assembly 0808/08/2015

SCALE: 1:1.2 WEIGHT: SHEET 7 OF 15



Stiffener Flat Pattern

B

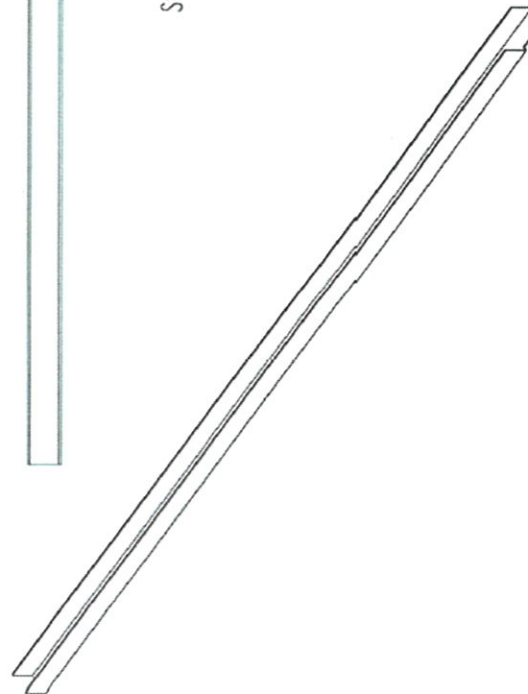


Stiffener LT 080 48

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PROJECT # **T364-25**
V-3P

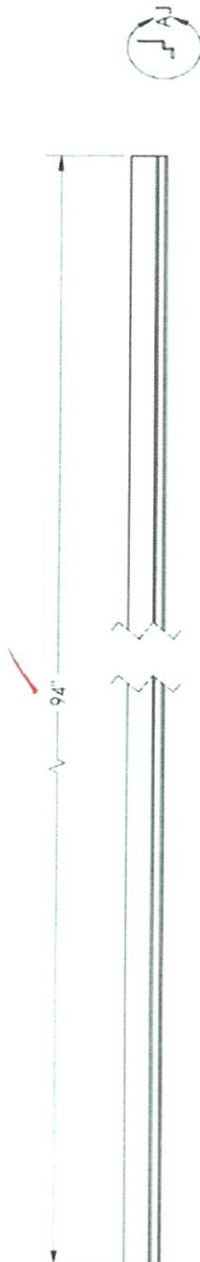
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UNLESS OTHERWISE SPECIFIED		NAME	DATE	TITLE:
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TOLERANCES	CHECKED			
FRACTIONAL				
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SYMBOLS DIMS: REF. 2	INC. APP.			
WELD SYMBOLS: REF. 3	INC. APP.			
INFERRED DIMS: REF. 4	Q. A.			
TOLERANCES: REF. 5	COMMENTS			
MATERIAL				
FINISH				
NOT ASSY	USED ON			
APPLICATION				
DO NOT SCALE DRAWING				

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SIZE DWG. NO. REV
Test Assembly 080 **Test**
SCALE: 1:8 WEIGHT: SHEET 10 OF 15



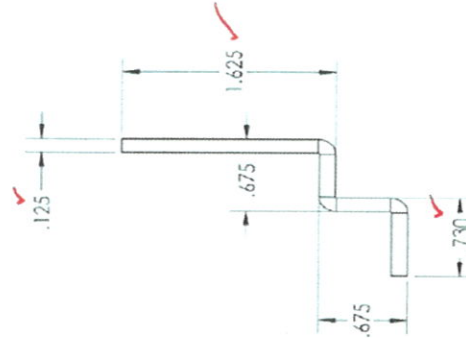
Start Track 125 96

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PROJECT # T364-25

✓-JF



DETAIL AJ
SCALE 1:1

TITLE:
Test Assembly 080 R5 T17

SIZE DWG. NO.

REV
B As Tested

SCALE: 1:8 WEIGHT: SHEET 11 OF 15

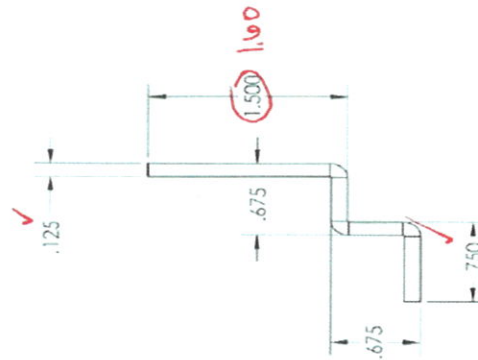
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TWO PLACE DECIMAL	ENGINEER	
THREE PLACE DECIMAL	ENGINEER	
RESISTANCE TO CORROSION	G.A.	
TO EXCEEDING PER	COMMENTS	
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NOT LAST	SECTION	
APPLICATION		
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B

Start Track 125 48

DETAIL A
SCALE 1:1

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BY: 3FPROJECT # 7364-25

V - 3F

A

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

TOLERANCES

FRACTIONS

DECIMALS

ANGULAR

TWO PLACE DECIMAL

THREE PLACE DECIMAL

FRACTIONS

TOLERANCES

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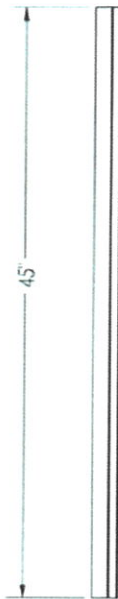
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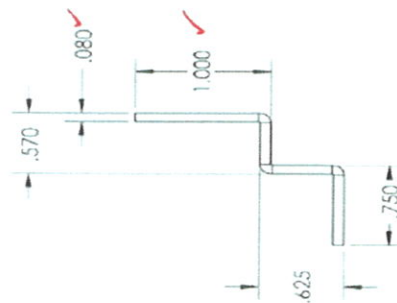


Top Edge 080 48

F. E. T. INC.
Review for general compliance
with test report AS NOTED ONLY

BY: 3F
PROJECT # T364-25

✓ - 3F



DETAIL A
SCALE 1:1

A

UNLESS OTHERWISE SPECIFIED	NAME	DATE
DRAWING: ARE THERE ANY CHANGES?		
REVISIONS:		
REVISION 1: INFO 1		
REVISION 2: INFO 2		
REVISION 3: INFO 3		
REVISION 4: INFO 4		
REVISION 5: INFO 5		
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REVISION 100: INFO 100		

TITLE:
Test Assembly 080 R5 T17

SHEET DWG. NO. **B** REV **As Tested**
SCALE 1:16 WEIGHT: SHEET 13 OF 15

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PROJECT # T364-25

Σ-ν



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	FL Panel 48x48 080		4
2	FL Panel 48x96 080		1
3	Stiffener LT 080 48		18
4	Start Track Formed Zee 125 96		1
5	Start Track Formed Zee 125 48		1
6	Top Edge Formed Zee 080 48		6
7	DensGlass		6
8	Stud 6 in		7
9	Stud Track 6 in		2
10	2x10 Sides		2
11	2x10 Top Bolt		2
12	Hot 750		9
13	900644620	External Hex Head Drilling Screws for Metal	36
14	Hex Head Drilling Screw 150		162

A

UNLESS OTHERWISE SPECIFIED	DRAWN	CHECKED	ENG APPR.	MFG APPR.	G.A.	COMMENTS
DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ANGULAR: MATCH - TWO PLACE DECIMAL - THREE PLACE DECIMAL - HOLE PATTERN:						REVERSE GEOMETRIC TOLERANCING PER

TITLE:

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SIZE DWG. NO. REV.

Test Assembly 080 Rev 0

SCALE: 1:24 WEIGHT: SHEET 15 OF 15

TENSILE TEST REPORT

Client: Dri-Design
12480 Superior Court, Suite #1
Holland, MI 49424

Test Date:

Test Method: ASTM

Material Description: FL Metal Panel, 0.063" Aluminum Panel

Sample No.	Width (in)	Thickness (in)	Yield Load (lb)	Max. Load (lb)	0.2% Offset Yield Strength (psi)	Tensile Strength (psi)	Elongation (% in 2 inches)
25260	0.504	0.076	837.96	920.71	21,877	24,037	6.5

Equipment Used: Tensile Machine #QT7-061196-020
Caliper #1074379
Extensometer #10311744D
Micrometer #110596927

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	12/22/25	N/A	Original report issue.

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