

Forensic Architecture  
Exterior Envelope Consulting  
Water Infiltration Testing  
Inspection Services

[www.z6consulting.com](http://www.z6consulting.com)  
1027 Tremont Street  
Galveston, TX 77550  
Phone (409) 740-0090

**ZERO / SIX**  
**C o n s u l t i n g**  
Envelope Architecture

## SUBMITTAL REVIEW

Submittal No.: 084113-002

Description: Aluminum Framed Entrances and Storefronts -SD

Project Name: UT SEAY Building Addition

Project No.: 102-782

Corrections and notations on Shop Drawings during this review do not relieve this Contractor from complying with requirements of the Contract Documents. This review is only for check of general conformance with the design concept of the project and general compliance with the info- the information given in contract documents. Contractor is responsible for confirming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, and performing his work in a safe manner.

- NO EXCEPTIONS NOTED
- SUBMIT SPECIFIED ITEM
- ACTION NOT REQUIRED
- EXCEPTIONS NOTED
- REVISE AND RESUBMIT
- NOT REVIEWED

BY:

DATE: 06/17/2020

Submittal Comments:

1. See comments in red.



SpawGlass Contractors, Inc.  
9331 Corporate Drive  
Selma TX 78154

# TRANSMITTAL

No. 0231

PROJECT: UT Seay Building Addition

DATE: 06/16/2020

TO: BSA Lifestructures  
AL

RE: Aluminum-Framed Entrances and Storefronts - Shop Drawings

ATTN: Ramon Arteaga

JOB: 3018105

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
<input type="checkbox"/> Shop Drawings	<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> Approved as Submitted
<input type="checkbox"/> Letter	<input type="checkbox"/> Your Use	<input type="checkbox"/> Approved as Noted
<input type="checkbox"/> Prints	<input type="checkbox"/> As Requested	<input type="checkbox"/> Returned After Loan
<input type="checkbox"/> Change Order	<input type="checkbox"/> Review and Comment	<input type="checkbox"/> Resubmit
<input type="checkbox"/> Plans		<input checked="" type="checkbox"/> Submit
<input type="checkbox"/> Samples	<b>SENT VIA:</b>	<input type="checkbox"/> Returned
<input type="checkbox"/> Specifications	<input type="checkbox"/> Attached <input type="checkbox"/> Separate Cover	<input type="checkbox"/> Returned for Corrections
<input type="checkbox"/> Other:		<input checked="" type="checkbox"/> Due Date: 06/30/2020
<input checked="" type="checkbox"/> Submittal:		<input type="checkbox"/> Other:

Line	Item	Package	Code	Cycle	Qty	Date	Description	Status
1	Submittal		084113-002	1		06/16/2020	Aluminum-Framed Entrances and Storefronts - Shop Drawings	Submitted for Approval

## SpawGlass Contractors, Inc.

REVIEWED FOR COMPLIANCE

COMMENTS NOTED

REVISE AND RESUBMIT

OTHER:

DATE 6/16/2020 SPEC# 084113

REVIEWED BY tanner.hawkins

SUBMITTAL# 084113-002

APPROVAL DOES NOT RELIEVE THE SUBCONTRACTOR  
OR SUPPLIER OF RESPONSIBILITY FOR ACCURACY,  
COMPLETENESS, QUANTITIES, DIMENSIONS, AND  
COMPLIANCE WITH CONTRACT DOCUMENTS

## REMARKS:

CC:

Signed: Tanner Hawkins

Tanner Hawkins



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

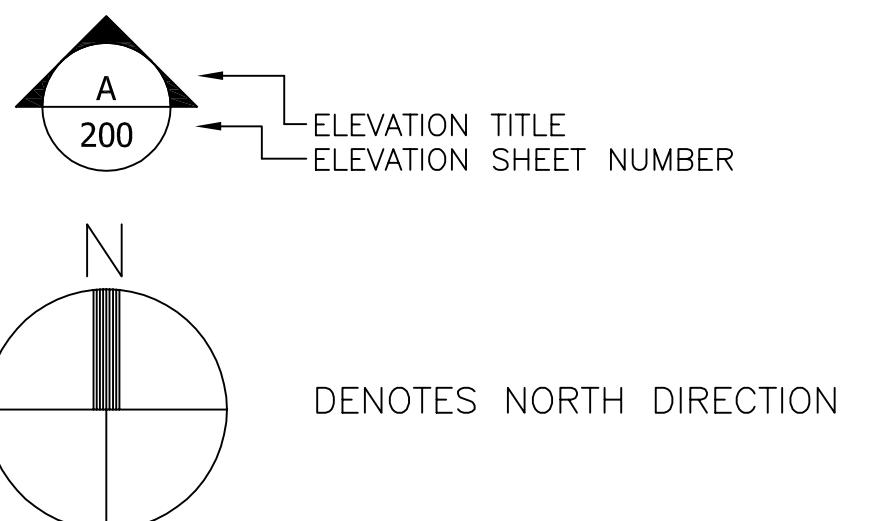
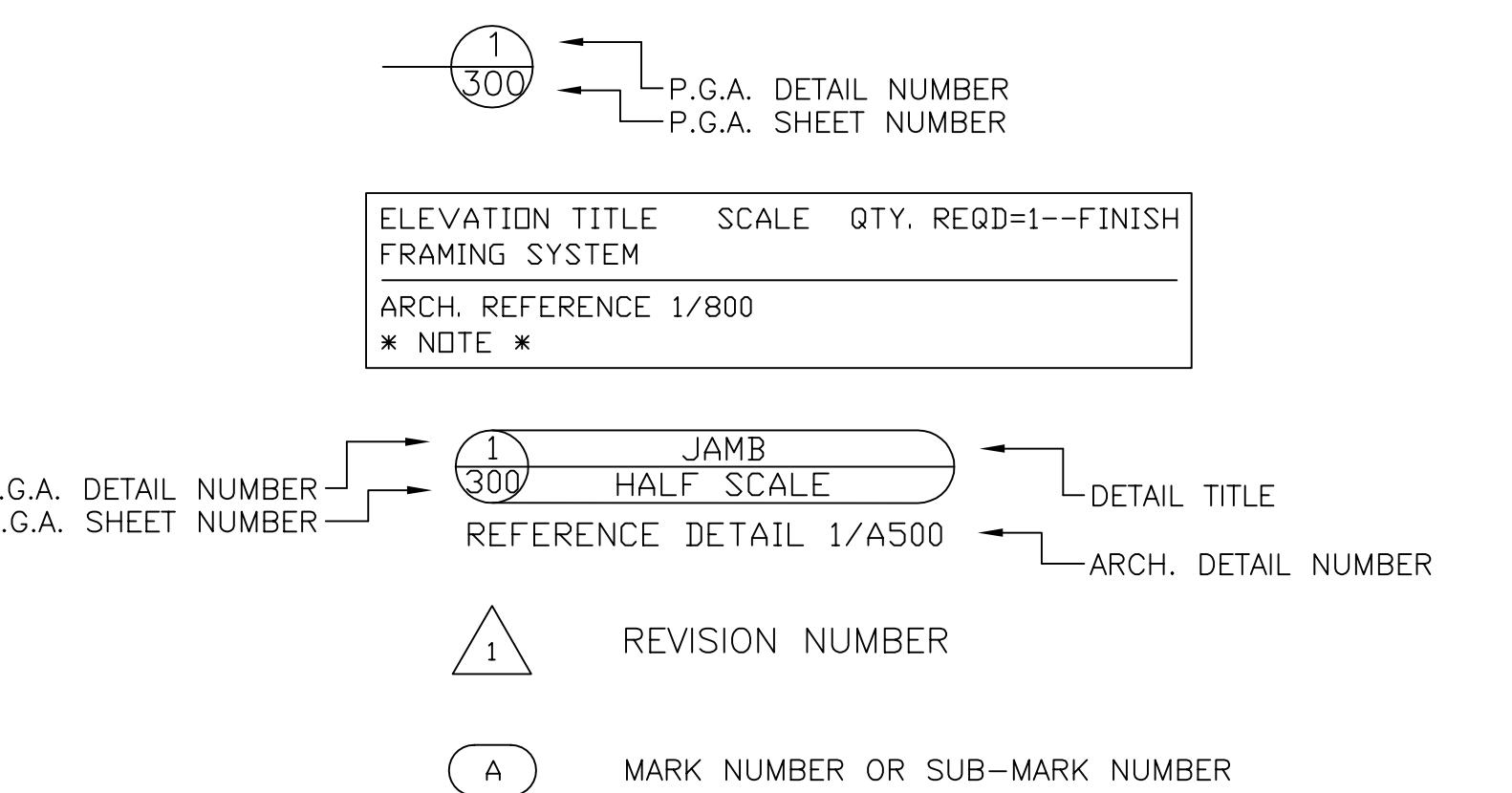
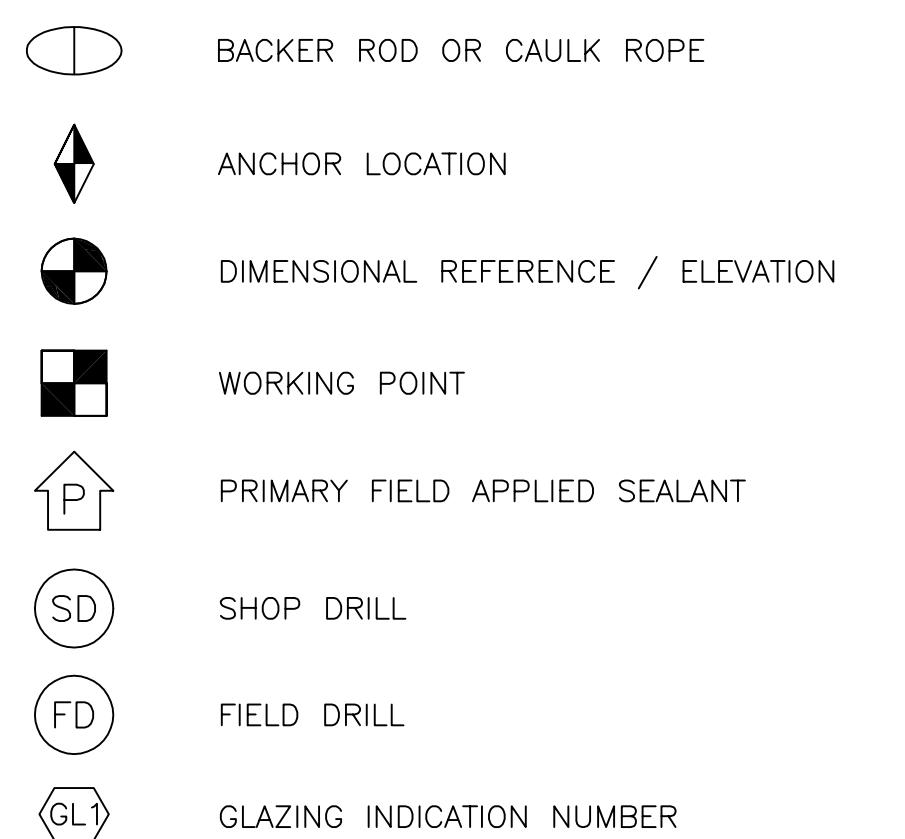
Contractor: SpawGlass

Section 08 41 13  
Aluminum-Framed Entrances and Storefronts

1.4 Action Submittals  
C. Shop Drawings

## LEGENDS/SYMBOLS

	FINISHED WOOD		PLYWOOD
	DIMENSION LUMBER		BATT INSULATION
	BRICK		GYPSUM BOARD
	E. I. F. SYSTEM		SHEATHING
	CUT STONE		STUCCO
	CONCRETE		ACOUSTICAL CEILING
	C. M. U. BLOCK		RIGID INSULATION
	STEEL		ALUMINUM
	BLOCKING OR SHIM; NOT CONTINUOUS, NOT NECESSARILY ONE PIECE		



DENOTES NORTH DIRECTION



EL PASO, TEXAS

11111 ROJAS

EL PASO, TX 79935

AUSTIN, TEXAS

501 W. POWELL, STE 211

AUSTIN, TX 78753

## GENERAL NOTES

- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION PERTAINING TO THE LOCATION OF ALL HVAC RISERS, PIPING, AND THE LIKE, FOR ANY POSSIBLE INTERFERENCE WITH ANCHORING OF INSERTS AND PRODUCT ASSEMBLY.
- ALL OPENINGS TO BE FINAL ADJUSTED IN ACCORDANCE WITH APPROVED TOLERANCES PRIOR TO START OF FRAME ERECTION BY OTHERS.
- GENERAL CONTRACTOR TO REVIEW AND APPROVE ALL DIMENSIONS PRIOR TO FABRICATION RELEASE.
- COORDINATE ALL CONCRETE AND MASONRY WORK ADJACENT TO PRODUCT SYSTEM WITH APPROPRIATE TRADES.
- COMMENTS SHOWN ONCE APPLY TO ALL SIMILAR CONDITIONS.
- ARCHITECT, GENERAL CONTRACTOR AND CUSTOMER NOTES: ALL OPENING DIMENSIONS, REFERENCE DIMENSIONS, AND ANCHOR LOCATION DIMENSIONS MUST BE VERIFIED. APPROVAL OF THESE DRAWINGS WILL BE CONSIDERED A RECORD ACCEPTANCE EVEN IF DIFFERING FROM THE ARCHITECTURAL PLANS. ANY FIELD DIMENSIONS THAT MAY BE REQUIRED ARE BY P.G.A.

P.G.A. WILL NOT ASSUME ANY RESPONSIBILITY FOR THE FOLLOWING ITEMS:

- ERRORS RESULTING FROM THE USE OF THESE DRAWINGS BY OTHER TRADES.
- COORDINATION OF OTHER TRADES' DRAWINGS TO THESE DRAWINGS.
- ERRORS RESULTING FROM FABRICATING MATERIALS IN ACCORDANCE WITH APPROVED DRAWINGS THOUGH DIFFERING FROM THE PLANS AND SPECIFICATIONS.
- VARIANCE OF OPENING DIMENSIONS AND/OR MATERIAL REQUIREMENTS AFTER SHOP DRAWINGS ARE APPROVED. REQUEST FOR REVISIONS AFTER DRAWINGS APPROVED WILL BE SUBJECT TO A MINIMUM HANDLING CHARGE PLUS THE COST OF ANY ADDITIONAL MATERIAL AND LABOR.

# U.T. AUSTIN SEAY BUILDING ADDITION

## PRODUCTS USED:

CURTAIN WALL SERIES: KAWNEER 1600 SYSTEM 1 CURTAIN WALL  
2-1/2" X 7-1/2"; SHEAR BLOCK; 'F' & 'T' ANCHORS

STOREFRONT SERIES: KAWNEER ENCORE STOREFRONT  
1-3/4" X 6"; TYPE A; FRONT SET; SCREW SPLINE

DOOR SERIES: KAWNEER 500 STANDARD WIDE STILE  
10" BOTTOM RAIL

## FINISH

### TYPE

#14 CLEAR ANODIZED

#40 DARK BRONZE ANODIZED

CLASS I  
 CLASS II  
 COMMERCIAL

(AA-M12-C22-A44) .7 MILL  
(AA-M12-C22-A34) .4-.7 MILL  
LESS THAN .4 MILL

BAKED-ON SILICONIZED POLYESTER  
 FLUROPOLYMER "70% KYNAR 500" BASED HIGH-PERFORMANCE COATING

(AA-M12-C42-R10)  
(AA-M12-C41-R1X)

OTHER \_\_\_\_\_

SINGLE FINISH \_\_\_\_\_

SINGLE FINISH \_\_\_\_\_

DUAL  INT. \_\_\_\_\_  
FINISH  EXT. \_\_\_\_\_

## SHOP DRAWINGS PREPARED FROM:

ARCHITECTURALS DATED: 10/31/2019

A112, A113, A114, A115, A116, A200, A201, A202, A210, A211, A300, A301, A302, A303, A304, A305, A310, A311, A312, A313, A350, A351, A352, A500, A501

STRUCTURALS DATED:

SPECIFICATIONS DATED: 10/31/2019

084113, 084413, 087100, 088000

ADDENDUMS:

01, DATED 11/18/2019  
02, DATED 11/26/2019  
03, DATED 12/04/2019

### SHEET INDEX:

100	INFORMATION SHEET
101	DOOR SCHEDULE
150-154	FLOOR PLANS
200-208	ELEVATIONS
300-304	DETAILS

## ABBREVIATIONS

A/C=ACCESS CONTROLLED	F.W.=FRAME WIDTH	T.B.D.=TO BE DETERMINED
A.F.F.=ABOVE FINISHED FLOOR	G.C.=GENERAL CONTRACTOR	T.O.F.F.=TOP OF FINISHED FLOOR
B.O.H.=BOTTOM OF HORIZ.	M.L.=MULLION LENGTH	T.O.H.=TOP OF HORIZONTAL
C.I.=CENTER LINE	N.B.P.G.A.=NOT BY P.G.A.	T.O.S.=TOP OF SLAB
DIM.=DIMENSION	N.I.C.=NOT IN CONTRACT	T.O.STL.=TOP OF STEEL
D.L.=DEAD LOAD (ANCHOR)	N.T.S.=NOT TO SCALE	TYP.=TYPICAL
D.L.O.=DAYLIGHT OPENING	O.F.D.=OVERALL FRAME DIM.	V.I.F.=VERIFY IN FIELD
D.O.=DOOR OPENING	O.P.P.=OPPOSITE	W.D.=WINDOW DIMENSION
F.F.=FINISHED FLOOR	REF.=REFERENCE	W.L.=WIND LOAD (ANCHOR)
F.H.=FRAME HEIGHT	R.O.=ROUGH OPENING	W.P.=WORKING POINT
F.O.D.=FINISHED OPENING DIM.	S.Y.M.=SYMMETRICAL	

NO	DESCRIPTION	DATE
<input checked="" type="checkbox"/>	1st SUBMISSION	05/21/20
<input type="checkbox"/>		
	DRAWING SUBMISSION	

## STAMP AREA:

# DOOR SCHEDULE

DOOR MARK 2.500A.1; HARDWARE SET PR-AC714AC  
 KAWNEER 500 STANDARD; WIDE STILE; 10" BOTTOM RAIL  
 6' 3" X 7' 5-3/8" X 1-3/4"; PAIR; SWING OUT (VIEWED FROM EXTERIOR)

DOOR MARK 2.500A.2; HARDWARE SET PR-C714AC  
 KAWNEER 500 STANDARD; WIDE STILE; 10" BOTTOM RAIL  
 6' 3" X 7' 5-3/8" X 1-3/4"; PAIR; SWING OUT (VIEWED FROM EXTERIOR)

REFERENCE AND COORDINATE WITH SECTION  
 087100 DOOR HARDWARE SUBMITTAL.

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This architectural floor plan illustrates the layout of a multi-story medical facility. The plan includes several floors and levels, connected by stairs, elevators, and shafts. Key areas include:

- Level 1 (Ground Floor):** Features a LOBBY (2.500A), RECEPTION (2.500.1), and a large area with multiple RUN ROOMS (e.g., 2.548E, 2.548F, 2.548G, 2.548H). There are also CONTROL ROOMS (RUN ROOMS) (2.548), RECEPTION (CLINICAL TREAT) (2.506), and various CLINICAL TREATMENT rooms (e.g., 2.542, 2.538, 2.534, 2.530, 2.526, 2.528).
- Level 2:** Contains a VESTIBULE (2.502A), OFFICE (2.502B), and an EXPERIMENT ROOM (CHILD DEV.) (2.502AB). It also includes a LACTATION ROOM (2.504) and a large CORRIDOR (2.500B).
- Level 3:** Features a large central STAIRS (2.556) and SHAFT (2.5C1) area. Other rooms include an ELECTRICAL ROOM (2.512), FAMILY RESTROOMS (2.520, 2.522), PHLEBOTOMY (2.532), and a FREEZER/COLD STORAGE ROOM (2.536).
- Level 4:** Includes a RECORD STORAGE (2.510), RA & DATA ANALYSIS (MOOD) (2.514), and an EXPERIMENT ROOM (TREADMILL) (2.516).
- Level 5:** Features a SHELL SPACE (2.508) and a CORRIDOR (2.500C).
- Level 6:** Contains a RECEPTION (2.502), CONTROL ROOM (CHILD DEV.) (2.502AB), and an EXPERIMENT ROOM (DAILY ACT.) (2.502C).
- Level 7:** Shows a LOBBY (2.500A), RECEPTION (2.500.1), and multiple RUN ROOMS (e.g., 2.548E, 2.548F, 2.548G, 2.548H).
- Access Points:** The plan includes several access points labeled with codes such as SF7 207, SF2 205, SF3 205, SF3A 206, SF4 206, SF4A 206, SF5.1A 207, SF5 206, SF9 208, SF9 208, CW1 200-201, CW2 202-203, and SF6 207.

The plan uses a combination of solid and dashed lines to represent different wall types and structural elements. Room numbers and descriptions are provided for most spaces, along with specific access codes.

LEVEL 2 EDITION PLAN NOT TO SCALE

---

ARCH REFERENCE 1/A11

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN,_TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAWGLASS		
CUSTOMER:	N/A		
TITLE:	FLOOR_PLANS		
DRAWN BY:	DATE:		
D.R.	05/21/20		
CHECKED BY:	DATE:		
L.G.	05/21/20		
JOB NO.:			
PGA_2020-085			
SHEET NO.:			
150			

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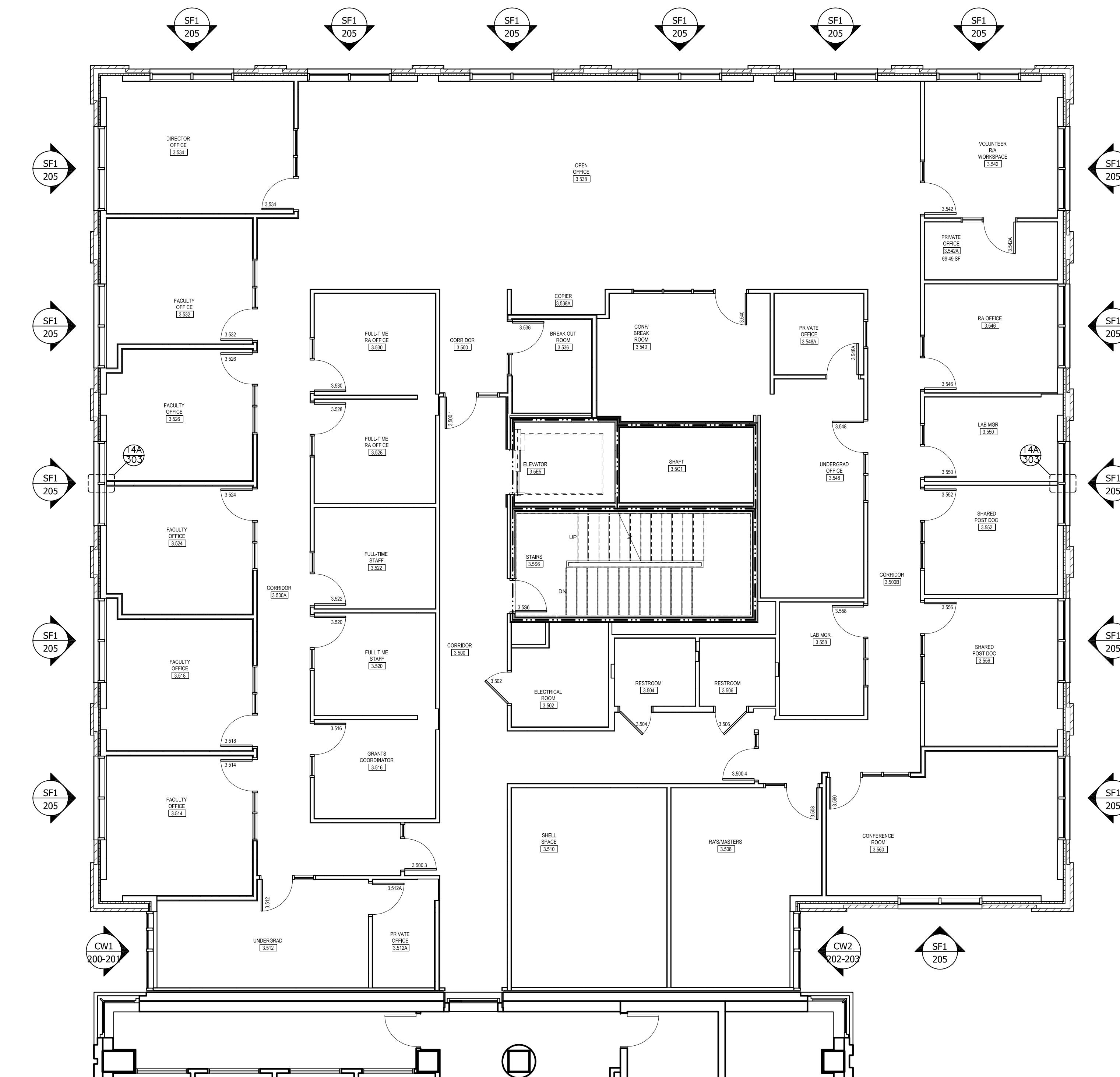
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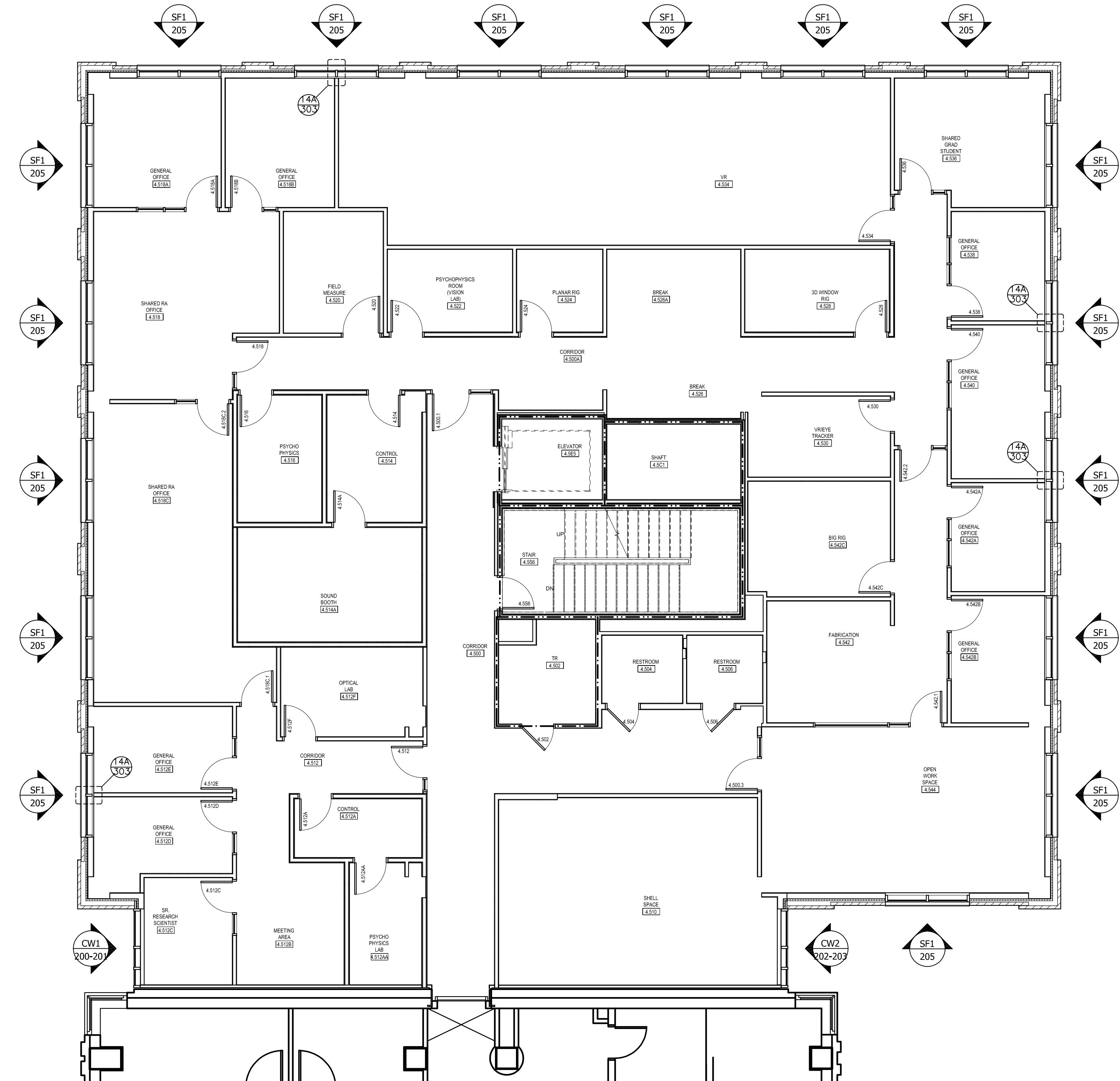
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**PERFORMANCE**  
*Glass & Aluminum Inc.*

EL PASO, TEXAS 11111 ROJAS AUSTIN, TEXAS 501 W POWELL, STE 211  
EL PASO, TX 79935 AUSTIN, TX 78733  
p 915.592.5583 p 512.632.4656

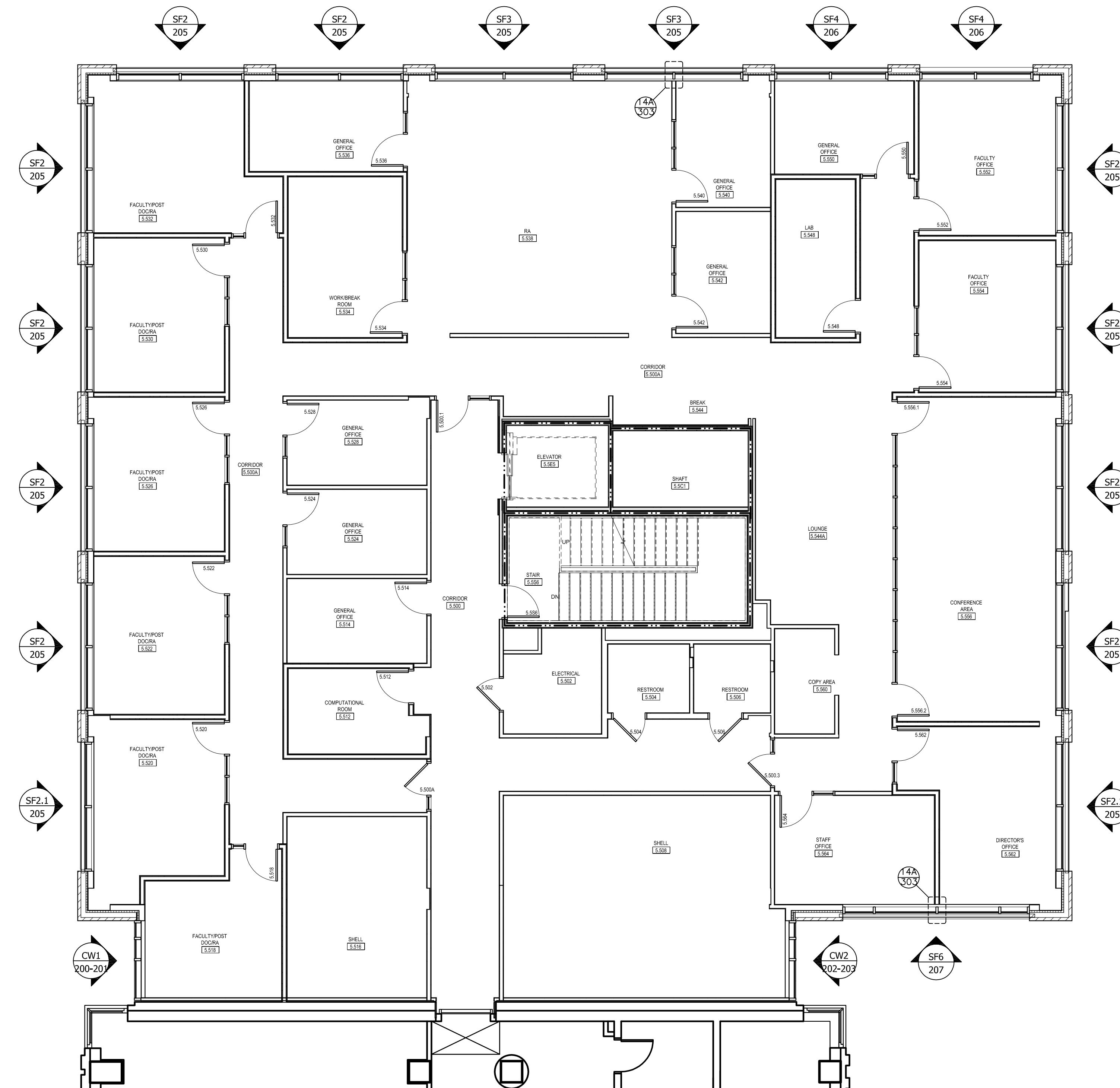
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**PERFORMANCE**  
*Glass & Aluminum Inc.*

EL PASO, TEXAS 11111 ROJAS AUSTIN, TEXAS 501 W POWELL, STE 211  
EL PASO, TX 79935 AUSTIN, TX 78753  
p 915.592.5583 p 512.632.4656

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LEVEL 5 FLOOR PLAN (NOT TO SCALE)

ARCH. REFERENCE 1/A115

**PERFORMANCE**  
**Glass & Aluminum Inc.**

 EL PASO, TEXAS 11111 ROJAS AUSTIN, TEXAS 501 W POWELL, STE 211  
 EL PASO, TX 79935 AUSTIN, TX 78733  
 p 915.592.5583 p 512.632.4656

NO.	DESCRIPTION	DATE
	1st SUBMISSION	05/21/20

PROJECT:	UT_AUSTIN -- SEAY BUILDING - ADDITION
LOCATION:	AUSTIN, TEXAS
ARCHITECT:	BSA_LIFE_STRUCTURES
CONTRACTOR:	SPAWNGLASS
CUSTOMER:	N/A
TITLE:	FLOOR PLANS
DRAWN BY:	D.R.
DATE:	05/21/20
CHECKED BY:	L.G.
DATE:	05/21/20
JOB NO.:	PGA_2020-085
SHEET NO.:	153

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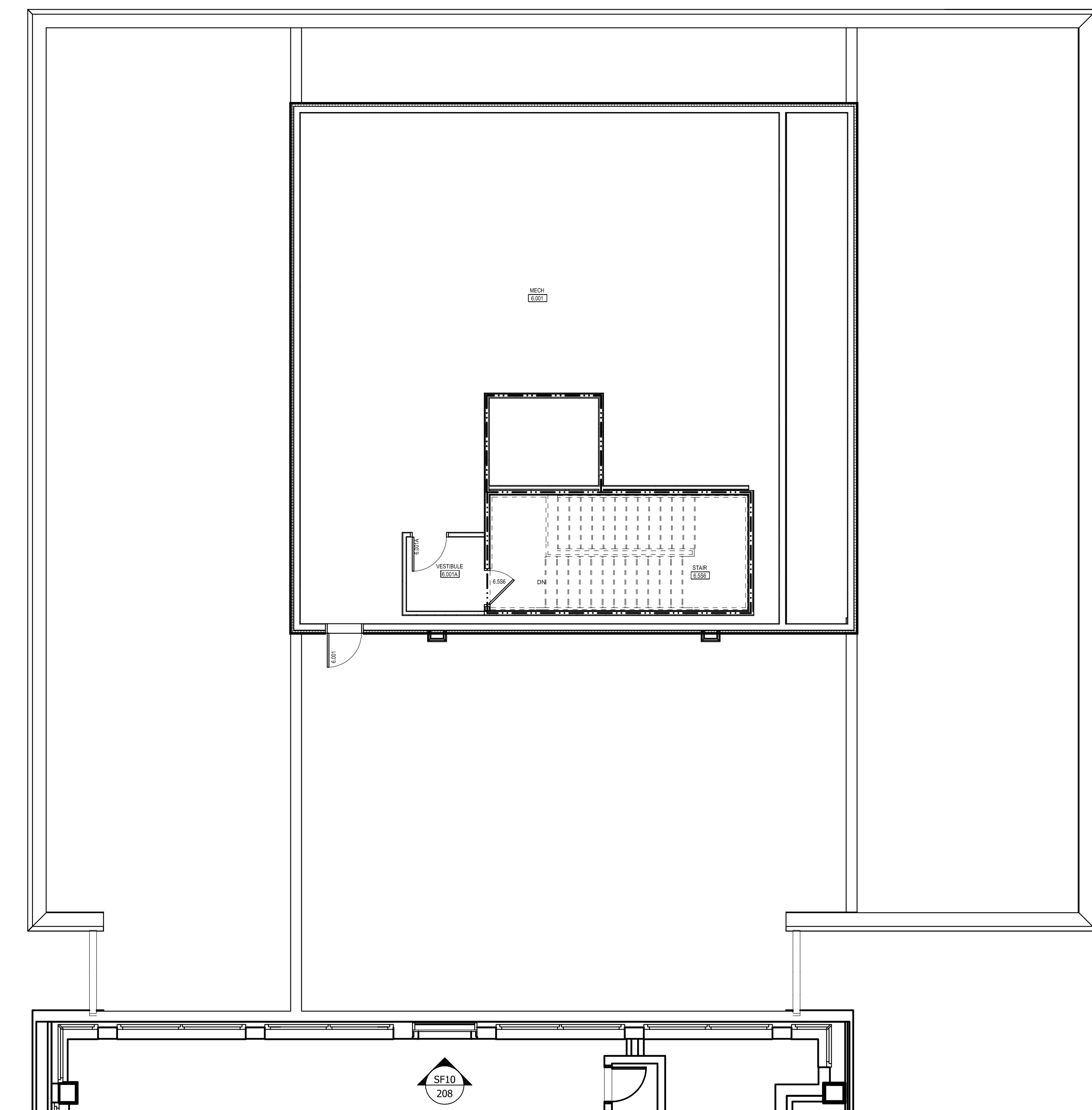
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PENTHOUSE FLOOR PLAN (NOT TO SCALE)

ARCH. REFERENCE 1/A116

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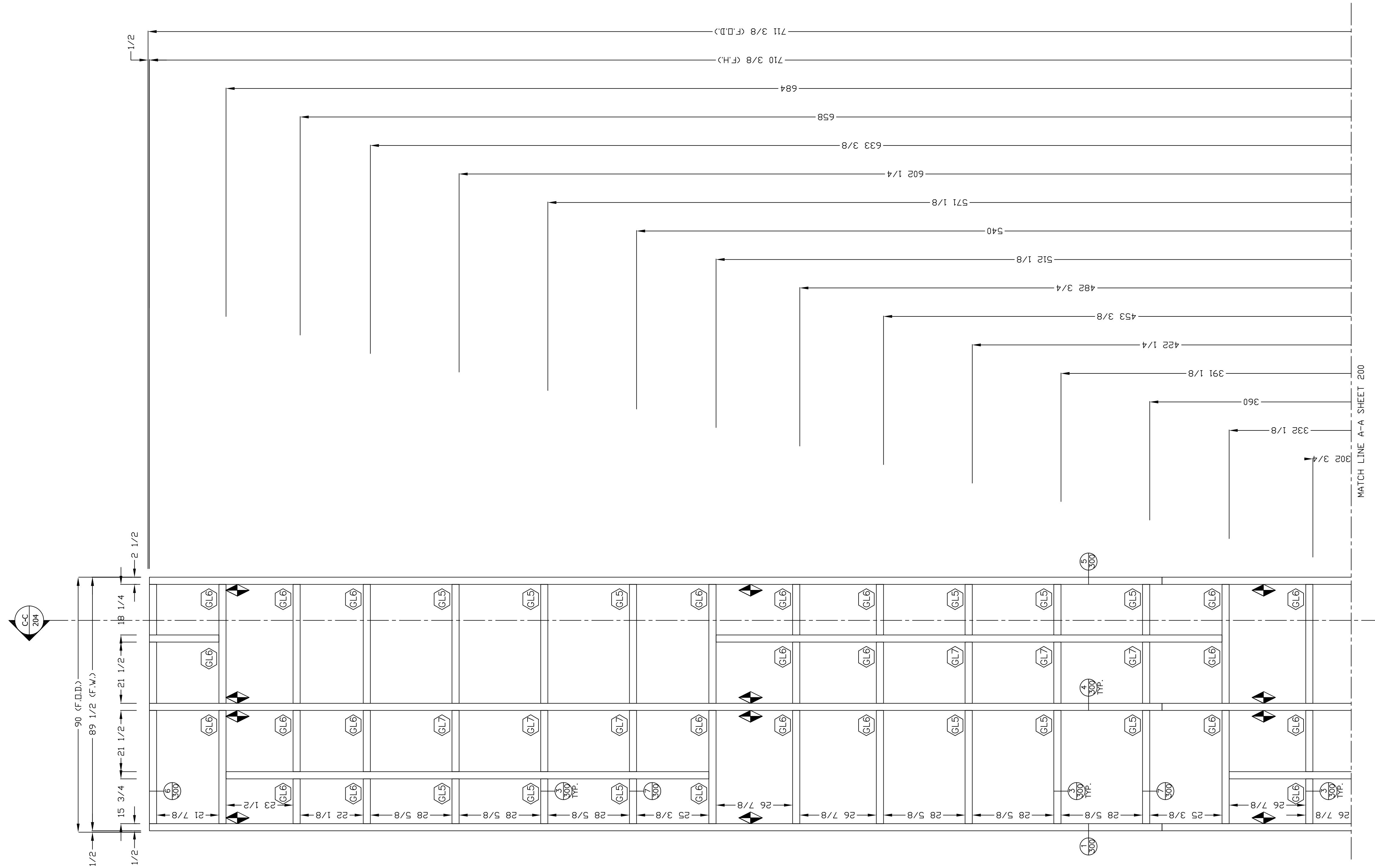
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**PERFORMANCE**  
**Glass & Aluminum Inc.**

 EL PASO, TEXAS 11111 ROJAS AUSTIN, TEXAS 501 W POWELL, STE 211  
 EL PASO, TX 79935 AUSTIN, TX 78733  
 p 915.592.5583 p 512.632.4656

NO	DESCRIPTION	DATE
1	1st SUBMISSION	05/21/20
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CW1 <CONTINUED> 1/2 = 1/2 & 1/2 RE&D-1 #17 CLEAN  
KAWNEER 1600 SYSTEM 1 CURTAIN WALL (2 1/2" X 7 1/2")

ARCH. REFERENCE 10/A200

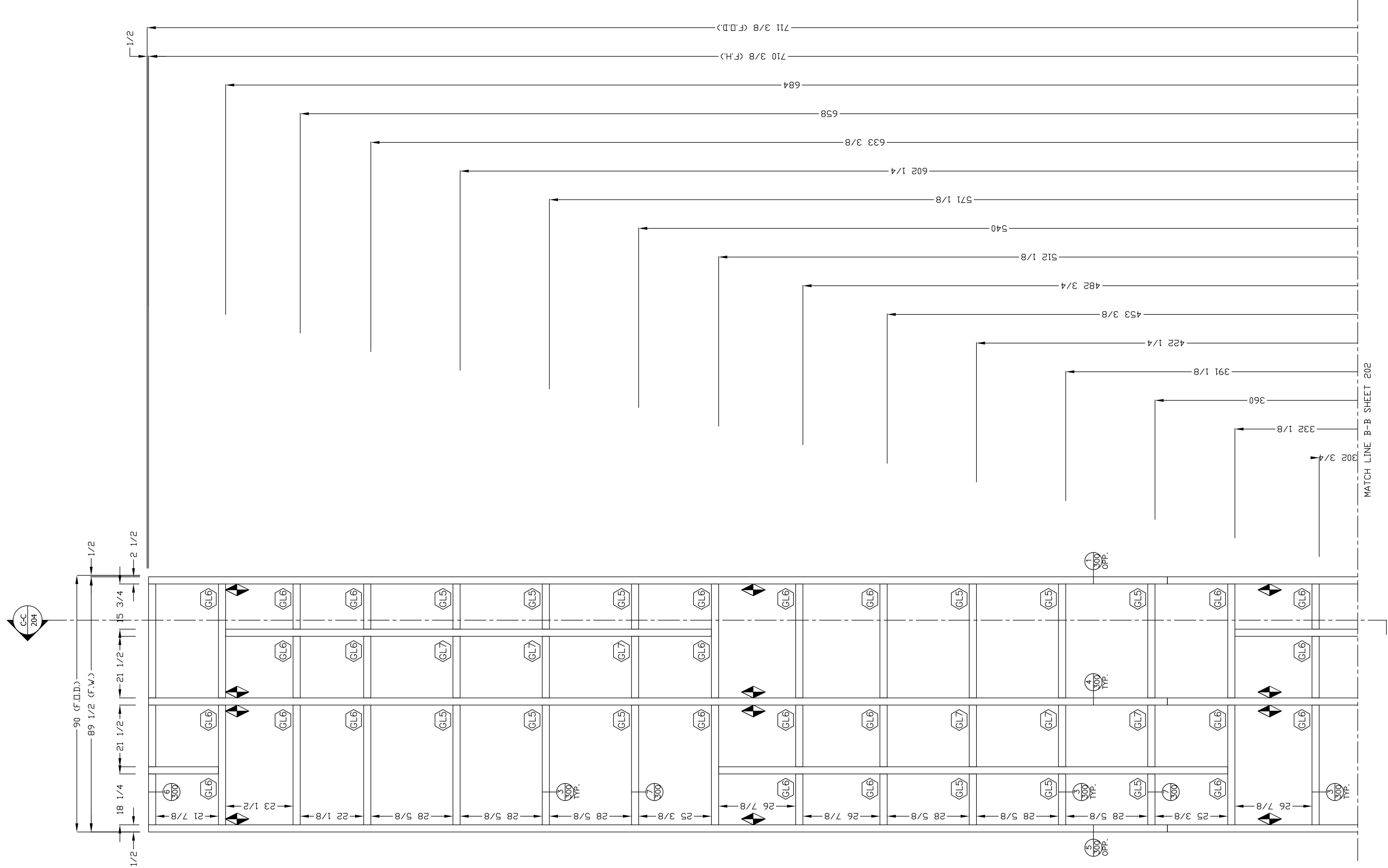


EL PASO, TEXAS 11111 ROJAS  
EL PASO, TX 79935  
p 915.592.5583

AUSTIN, TEXAS 501 W POWELL, STE 211  
AUSTIN, TX 78753  
p 512.632.4656

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN,_TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAWGLASS		
CUSTOMER:	N/A		
TITLE:	ELEVATIONS		
DRAWN BY:	D.R.		
CHECKED BY:	L.G.		
JOB NO.:	PGA_2020-085		
SHEET NO.:	201		



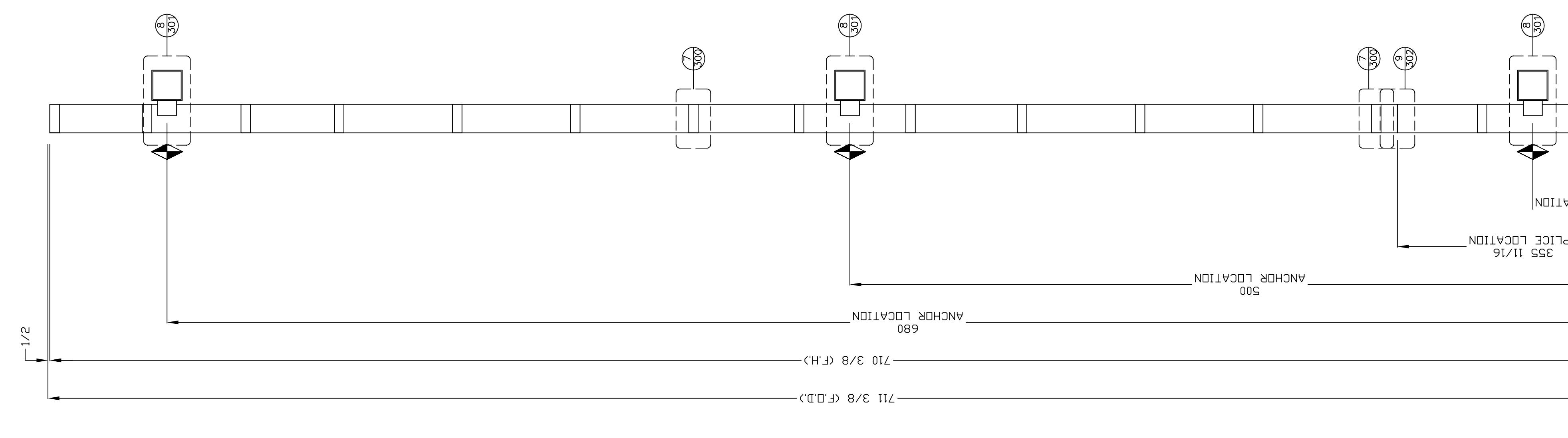


CW2 CONTINUED, - 1/2" & 1/4" REL & D-1 #14 CLEAVER  
KAWNEER 1600 SYSTEM 1 CURTAIN WALL (2 1/2" X 7 1/2")  
ARCH. REFERENCE 10/A200

NO	DESCRIPTION	DATE
	1st SUBMISSION	05/21/20
		
		
		
		
		
		

DRAWING SUBMISSION

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAWGLASS		
CUSTOMER:	N/A		
TITLE:	ELEVATIONS		
DRAWN BY:	DATE:		
D.R.	05/21/20		
CHECKED BY:	DATE:		
L.G.	05/21/20		
JOB NO.:			
PGA_2020-085			
SHEET NO.:	203		



W/ALL SECTION C-C 1/2" = 1'0

SEARCH. REFERENCE 1/A301; 4/A304

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ARCH. REFERENCE 1/A301; 4/A304



EL PASO, TEXAS 11111 ROJAS  
EL PASO, TX 79935  
p 915.592.5583  
AUSTIN, TEXAS 501 W POWELL, STE 211  
AUSTIN, TX 78753  
p 512.632.4656

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN,_TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
DRAWN BY:	CONTRACTOR: SPAWGLASS		
CHECKED BY:	CUSTOMER: N/A		
JOB NO.:	TITLE: ELEVATIONS		
D.R.			
DATE: 05/21/20			
L.G.			
DATE: 05/21/20			
PGA_2020-085			
SHEET NO.: 204			

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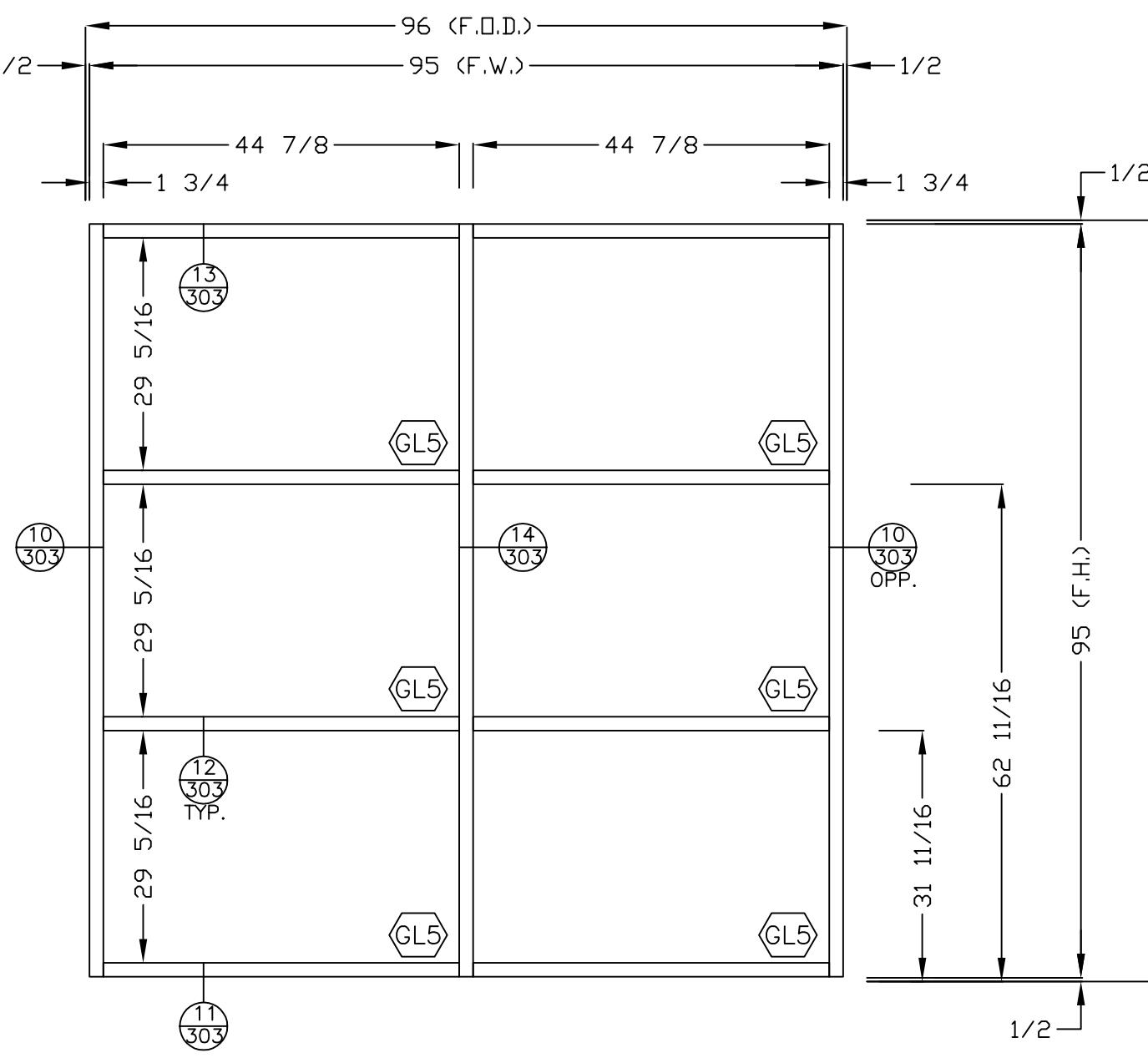
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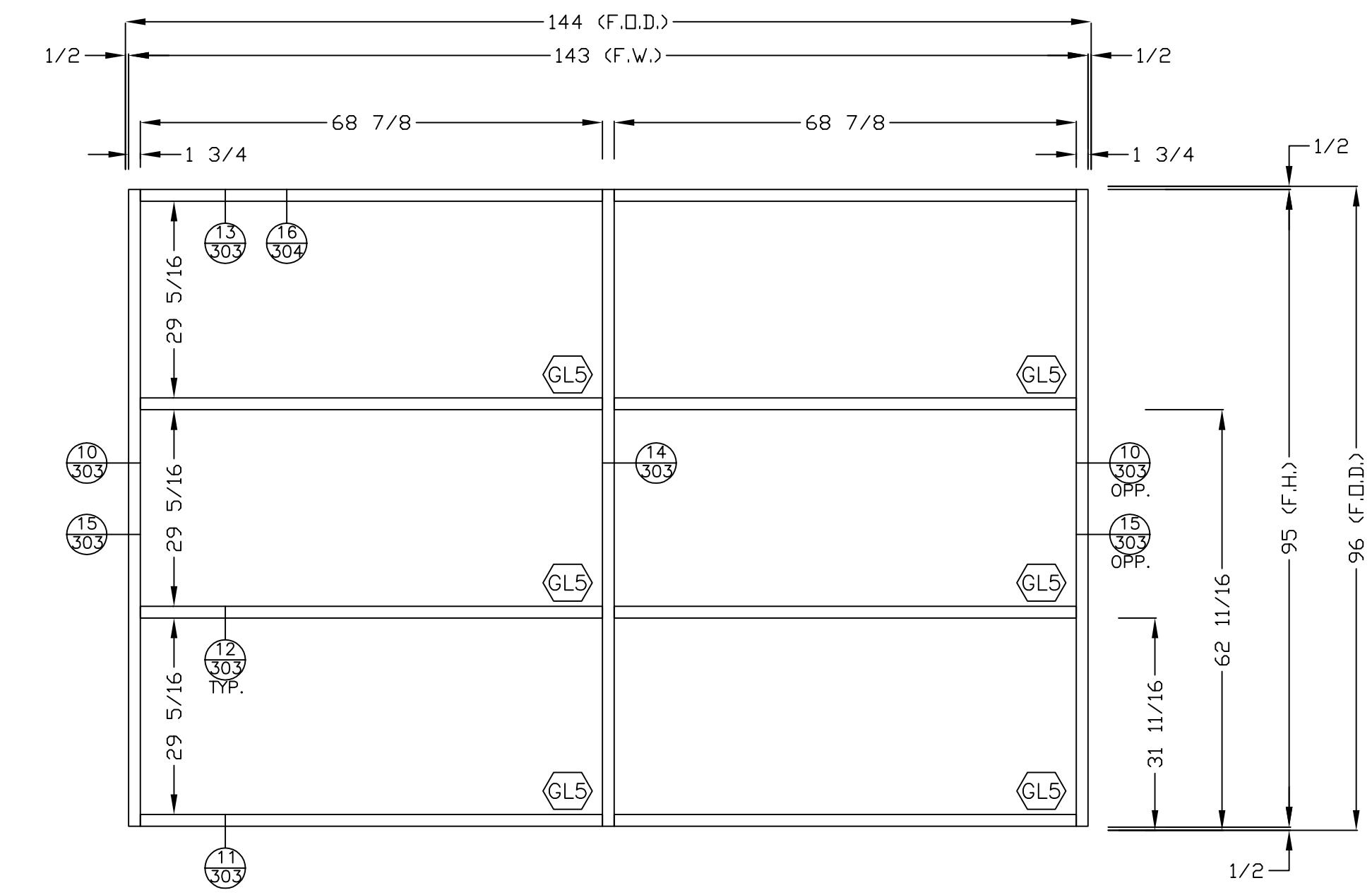
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SF1 1/2" = 1'0 QTY. REQD=34--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  

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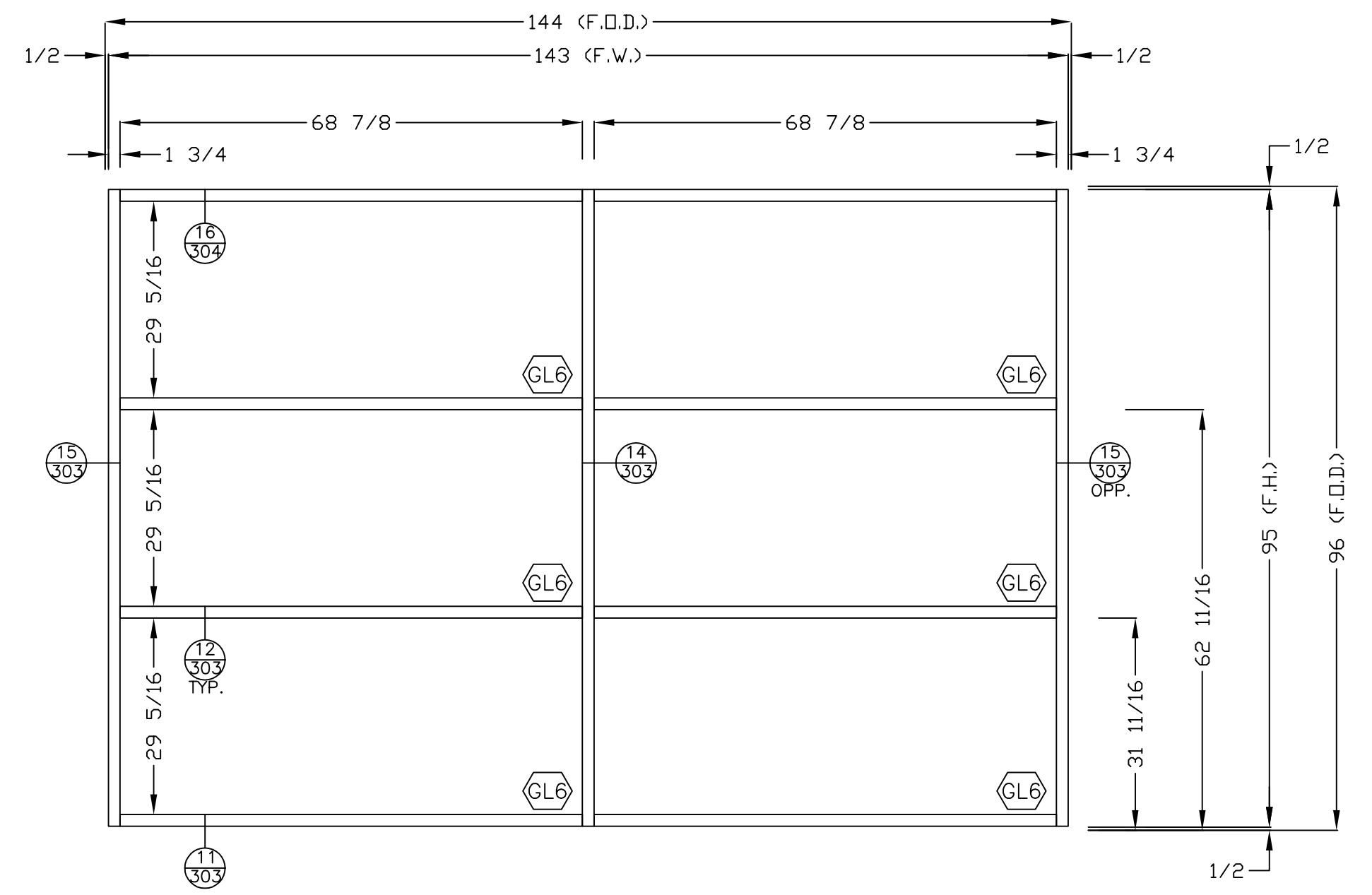
ARCH. REFERENCE 4/A200



SF2 1/2" = 1'0 QTY. REQD=11--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  

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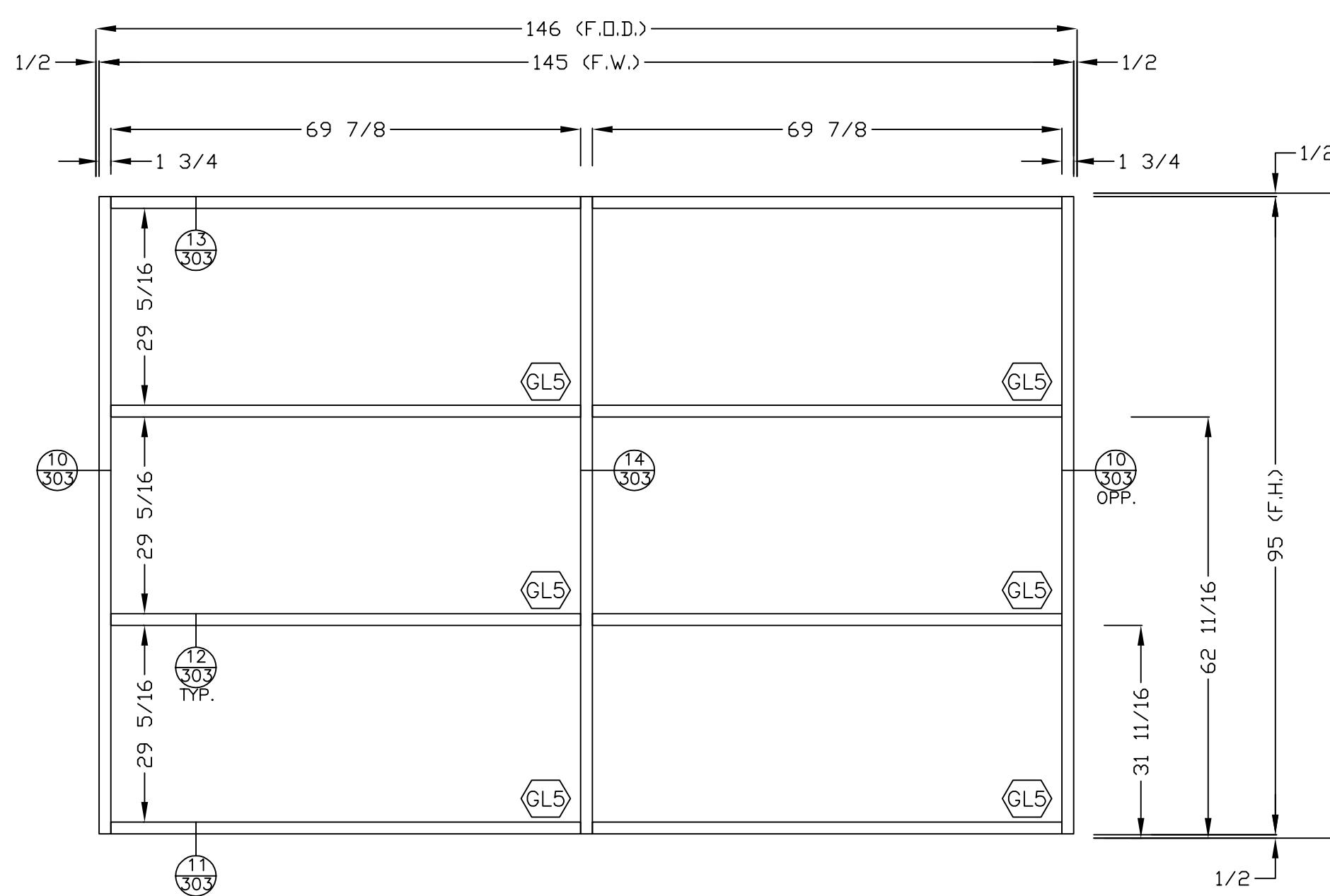
ARCH. REFERENCE 4/A200



SF2A 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  

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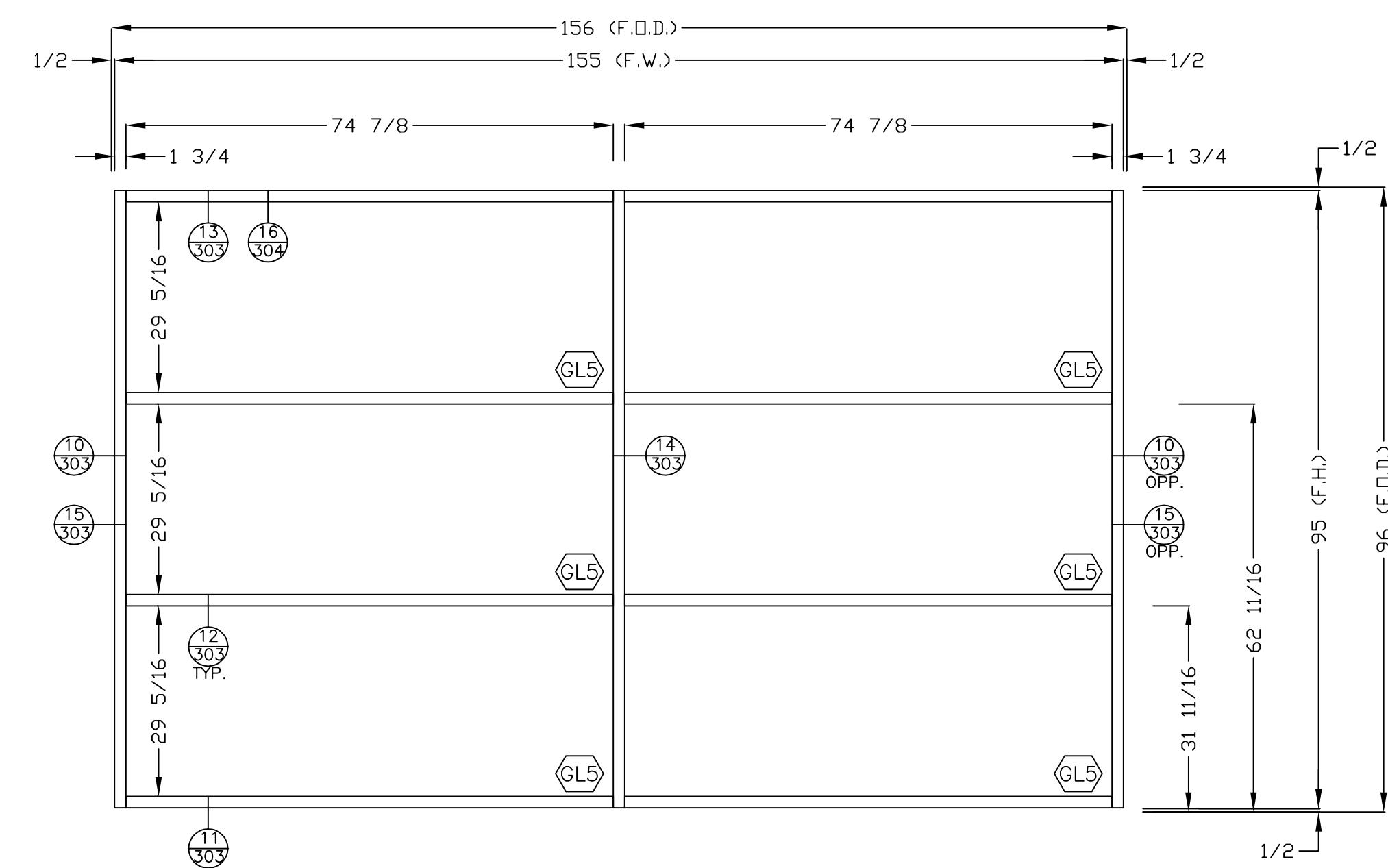
ARCH. REFERENCE 4/A200



SF2.1 1/2" = 1'0 QTY. REQD=2--#14 CLEA  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  

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ARCH. REFERENCE 4/A200



SF3 1/2" = 1'0 QTY. REQD=3--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  

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ARCH. REFERENCE 4/A200



EL PASO, TEXAS 11111 ROJAS AUSTIN, TEXAS 501 W POWELL, STE 211  
EL PASO, TX 79935 AUSTIN, TX 78753  
p 915.592.5583 p 512.632.4656

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
DRAWN BY:	D.R.	DATE:	05/21/20
CHECKED BY:	L.G.	DATE:	05/21/20
JOB NO.:	PGA_2020-085		
SHEET NO.:	205		

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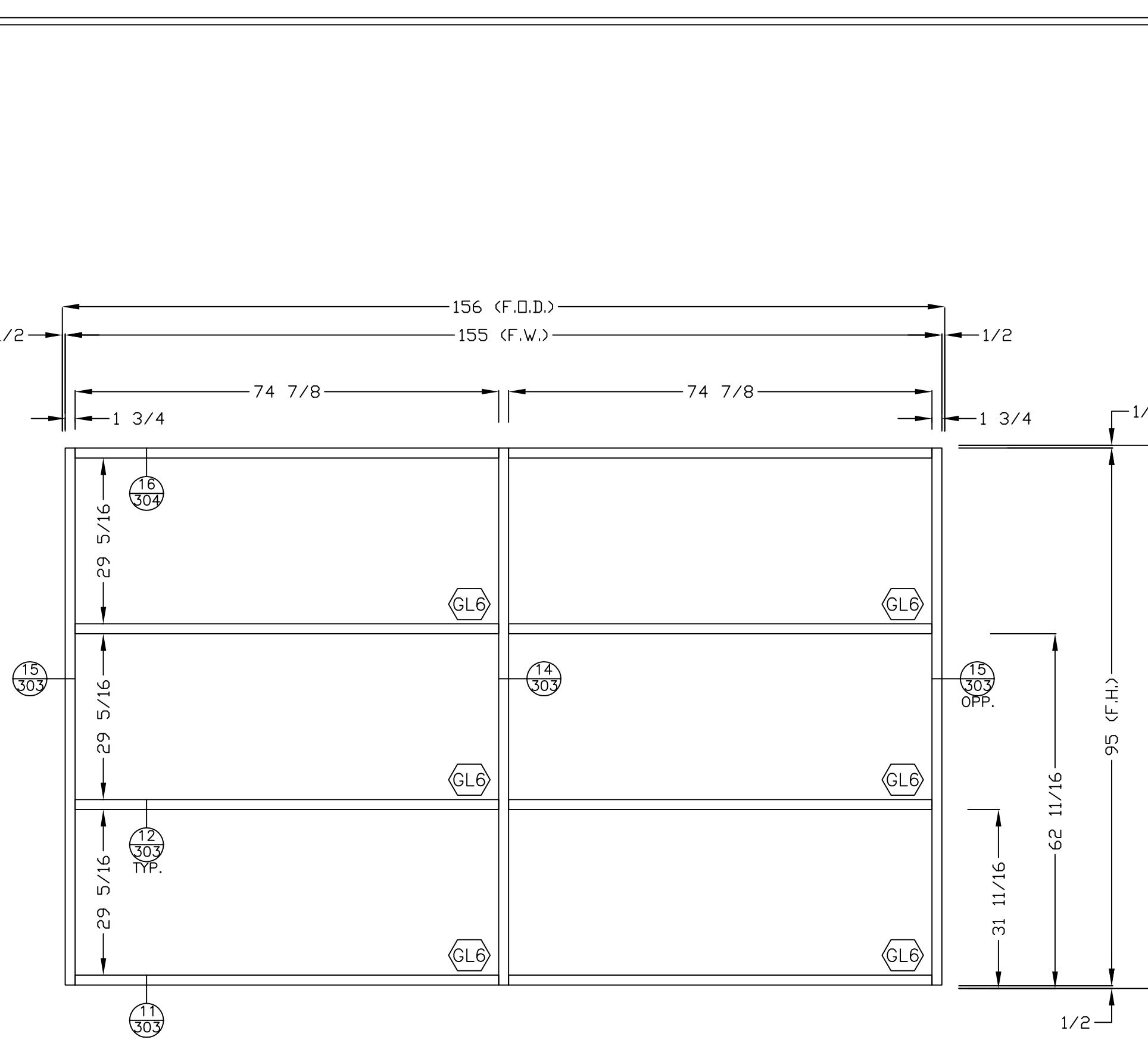
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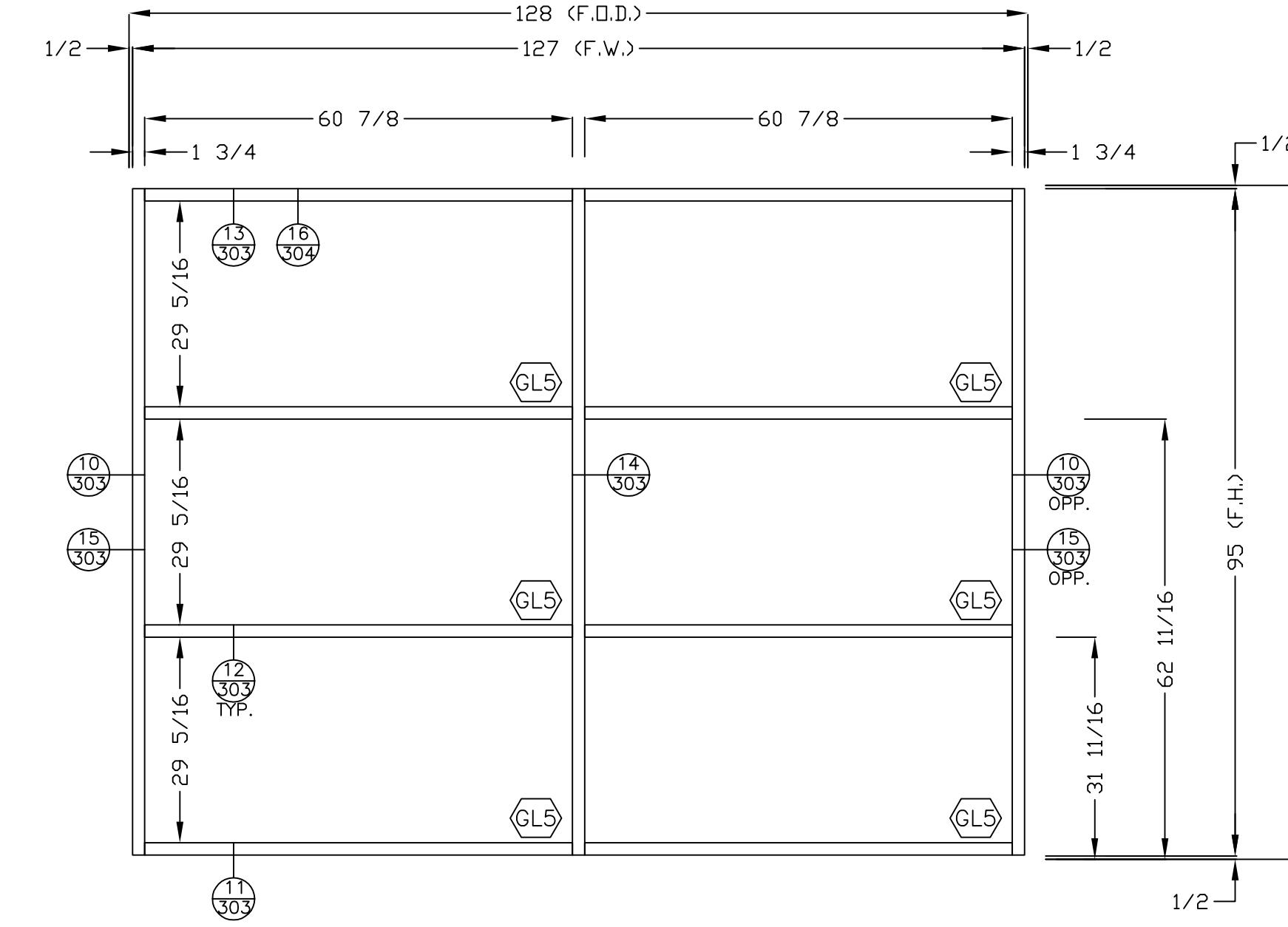
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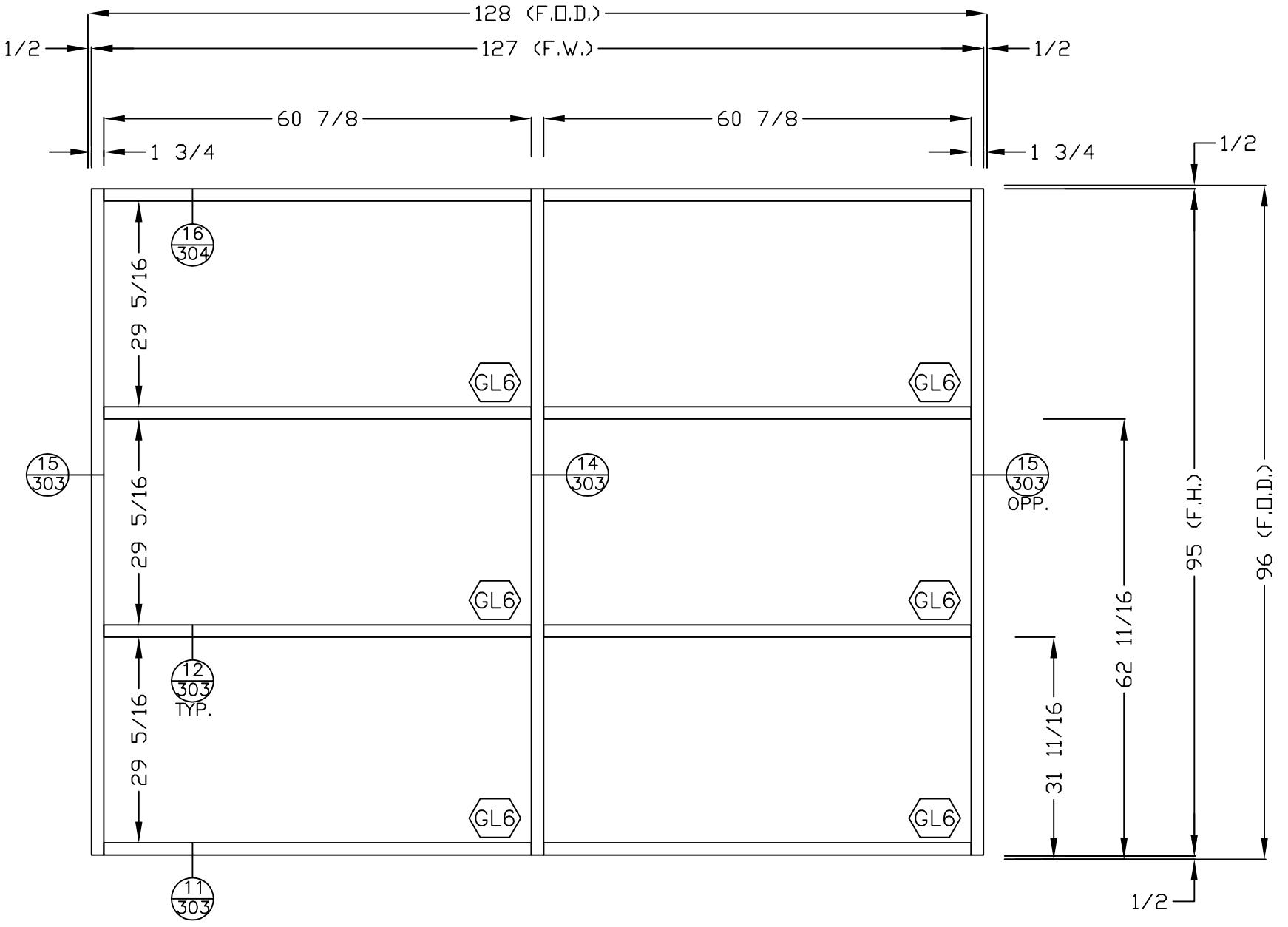
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SF3A 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200



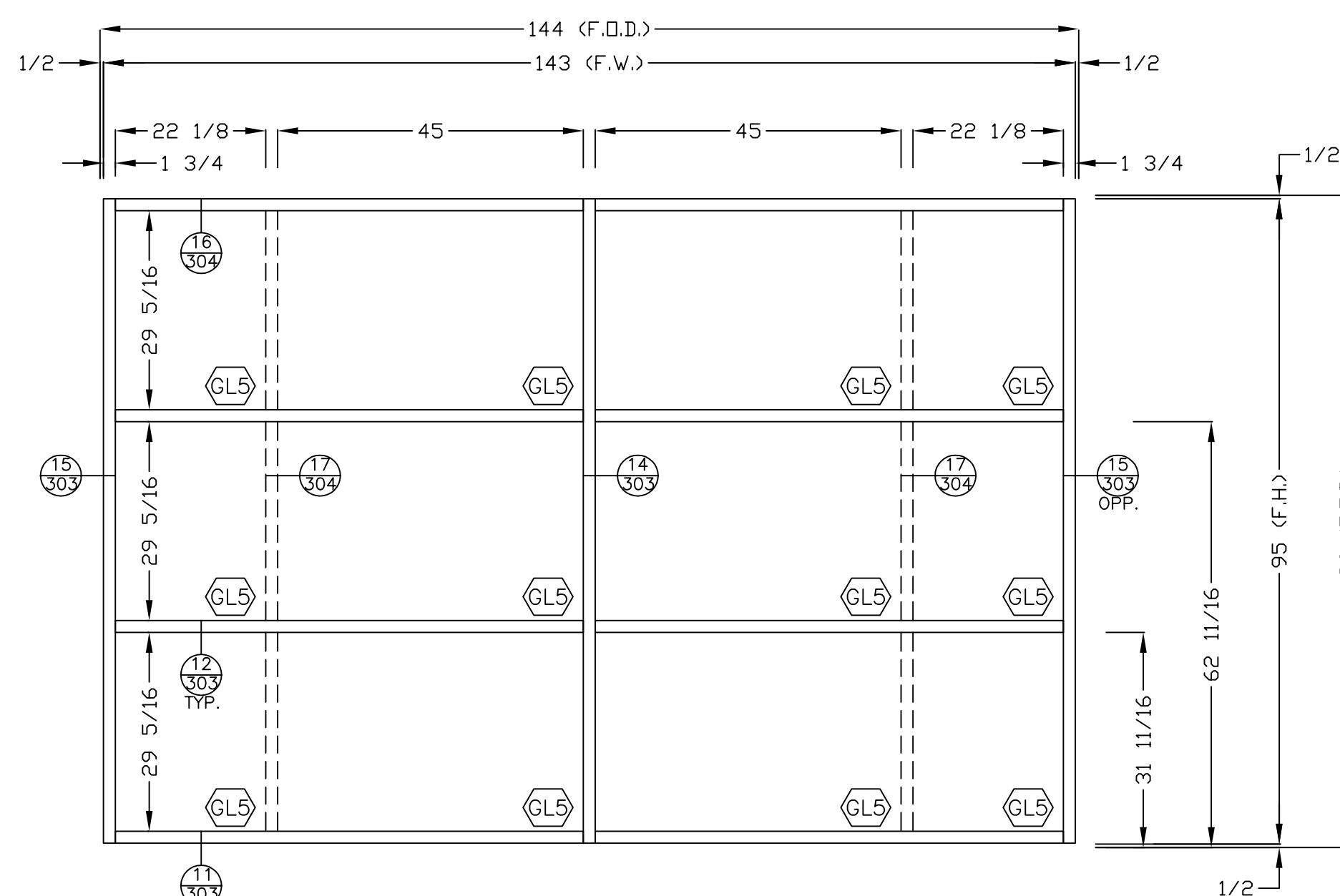
SF4 1/2" = 1'0 QTY. REQD=3--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200



SF4A 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  

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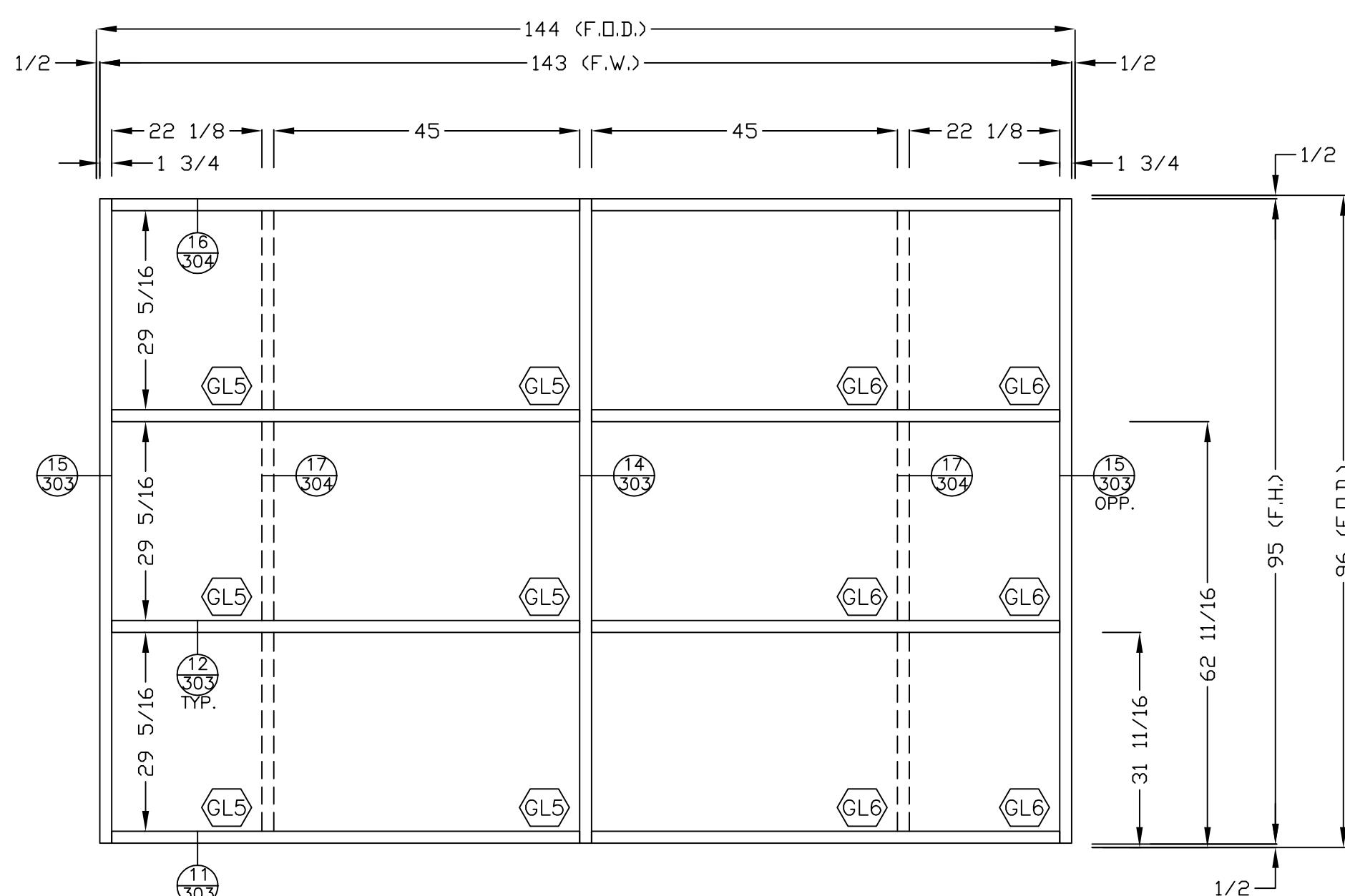
ARCH. REFERENCE 4/A200



SF5 1/2" = 1'0 QTY. REQD=2--#14 CLEA  
KAWNEER ENCORE STOREFRONT <1 3/4" X E

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ARCH. REFERENCE 4/A200



SF5B 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  

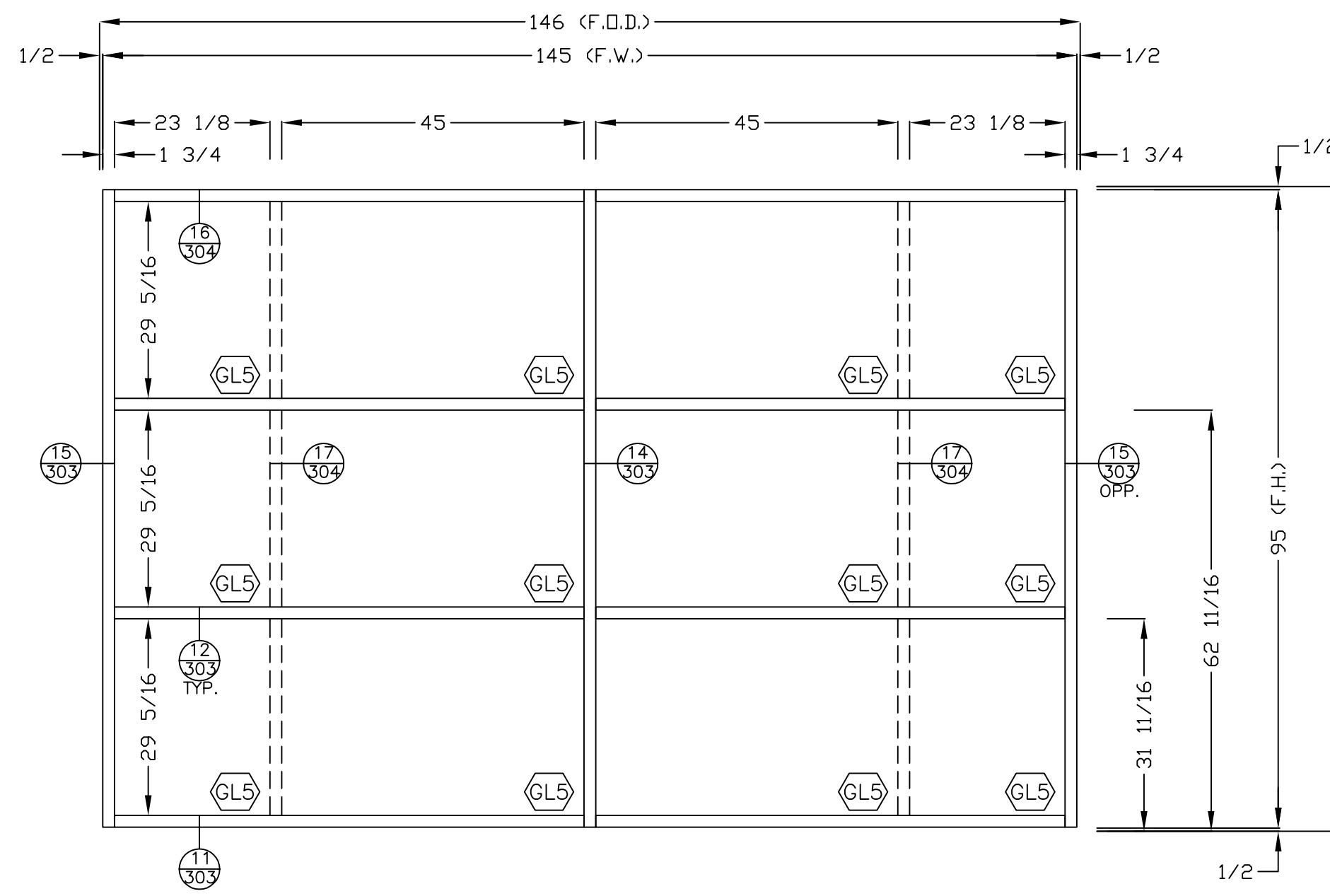
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ARCH. REFERENCE 4/A200

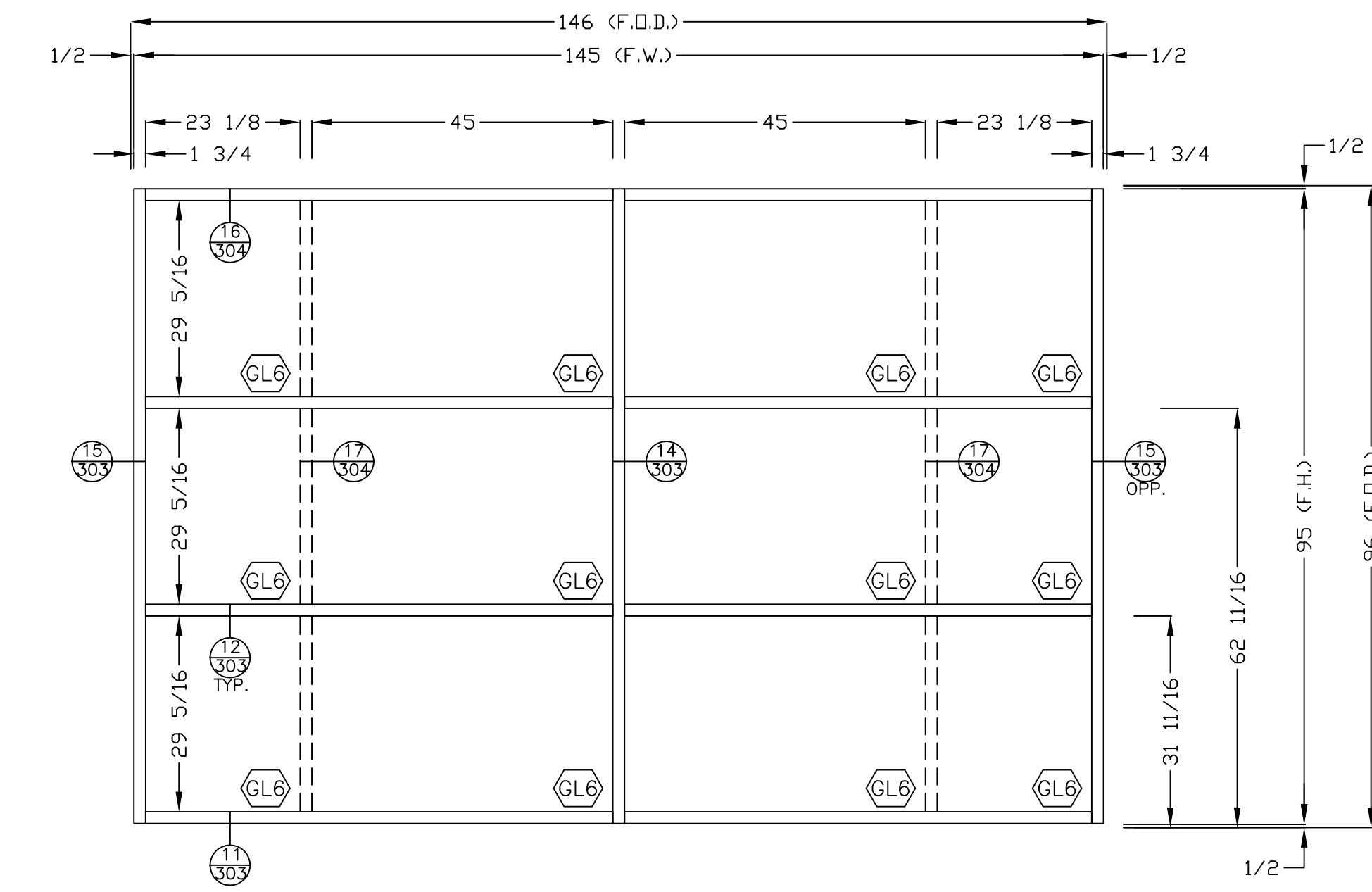


EL PASO, TEXAS 11111 ROJAS  
EL PASO, TX 79935  
p 915.592.5583  
AUSTIN, TEXAS 501 W POWELL, STE 211  
AUSTIN, TX 78753  
p 512.632.4656

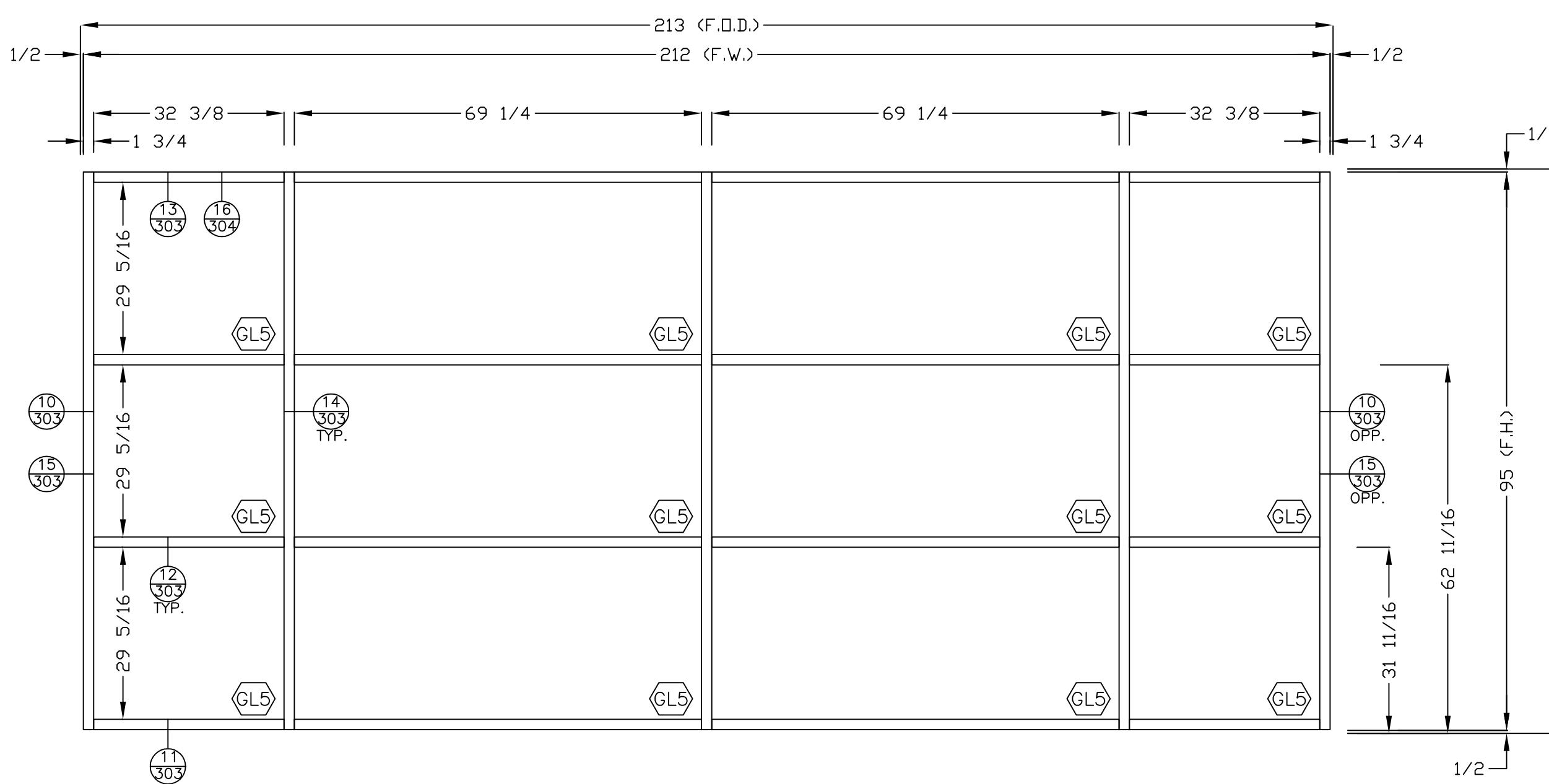
PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN,_TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAWGLASS		
CUSTOMER:	N/A		
TITLE:	ELEVATIONS		
DRAWN BY:	D.R.		DATE: 05/21/20
CHECKED BY:	L.G.		DATE: 05/21/20
JOB NO.:	PGA_2020-085		
SHEET NO.:	206		



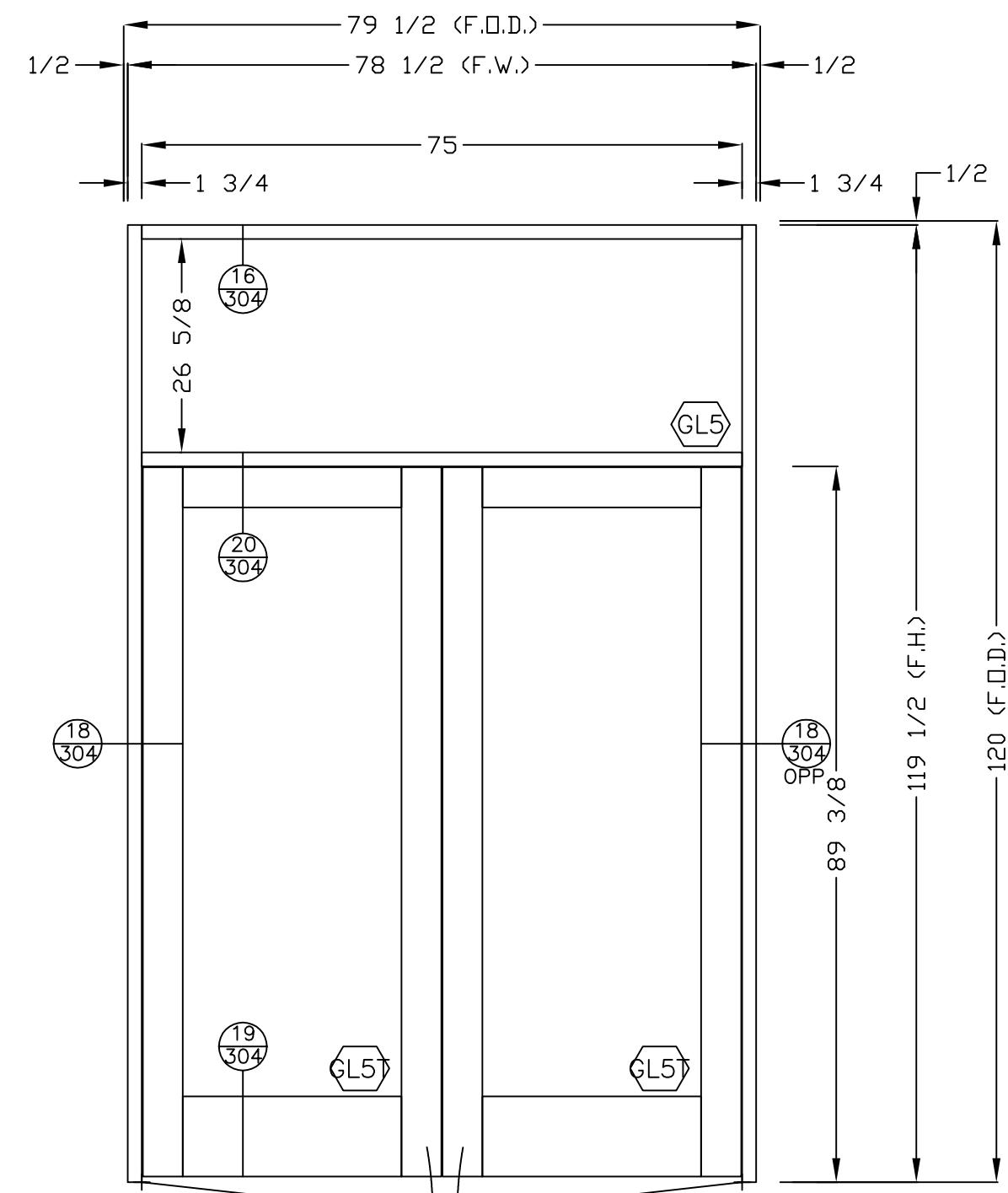
SF5.1 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200



SF5.1A 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200



SF6 1/2" = 1'0 QTY. REQD=2--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

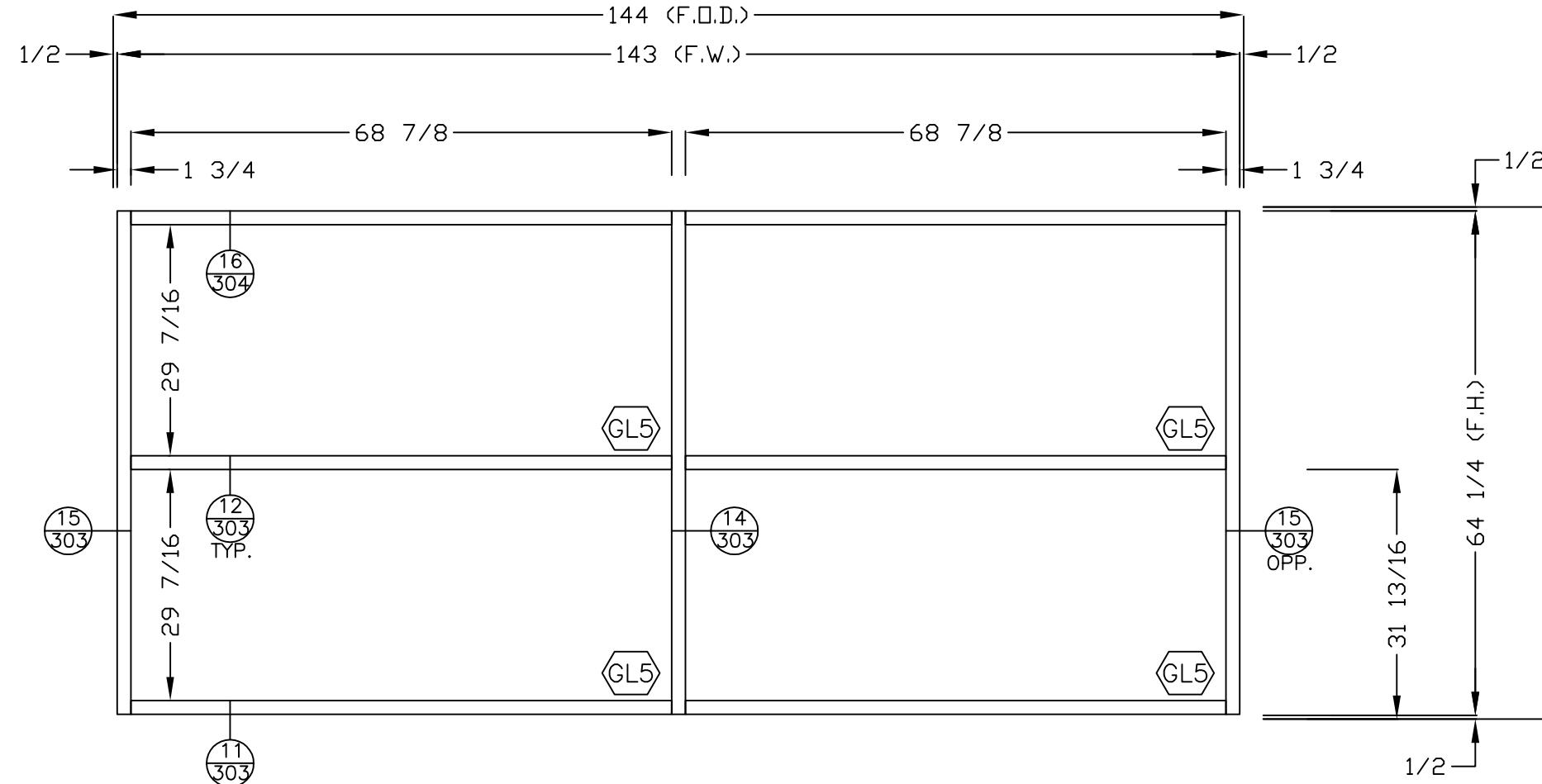


SF7 DOOR 2500A.1, 2500A.2 1/2" = 1'0 QTY. REQD=2--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

NO.	DESCRIPTION	DATE
<input checked="" type="checkbox"/>	1st SUBMISSION	05/21/20
<input type="checkbox"/>		
DRAWING SUBMISSION		

PERFORMANCE	Glass & Aluminum Inc.	AUSTIN, TEXAS	501 W POWELL, STE 211
EL PASO, TEXAS	11111 ROJAS	AUSTIN, TEXAS	501 W POWELL, STE 211
EL PASO, TX 79935	p 915.592.5583	AUSTIN, TX 78733	p 512.632.4656

PROJECT:	UT-AUSTIN -- SEAY BUILDING - ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAWNGLASS		
CUSTOMER:	N/A		
TITLE:	ELEVATIONS		
DRAWN BY:	D.R.	DATE:	05/21/20
CHECKED BY:	L.G.	DATE:	05/21/20
JOB NO.:	PGA_2020-085		
SHEET NO.:	207		



PARTS LIST	
PART NO.	PART DESCRIPTION
1 162003	MULLION
2 162505	PERIMETER PRESSURE PLATE
3 162006	3/4" SNAP-ON COVER
4 KH-EZ 3/8" X 3"	
5 162311	'F' ANCHOR
6 162312	'T' ANCHOR
7 162020	OPEN BACK FILLER
8 162091	OPEN BACK HORIZONTAL
9 162332	SHEAR BLOCK
10 69266	STOOL TRIM
11 69271	STOOL TRIM CLIP PACKAGE
12 162335	PRESSURE PLATE
13 162378	SHEAR BLOCK
14 162054	1/8" INFILL ADAPTOR
15 #12 ZINC PLATED	

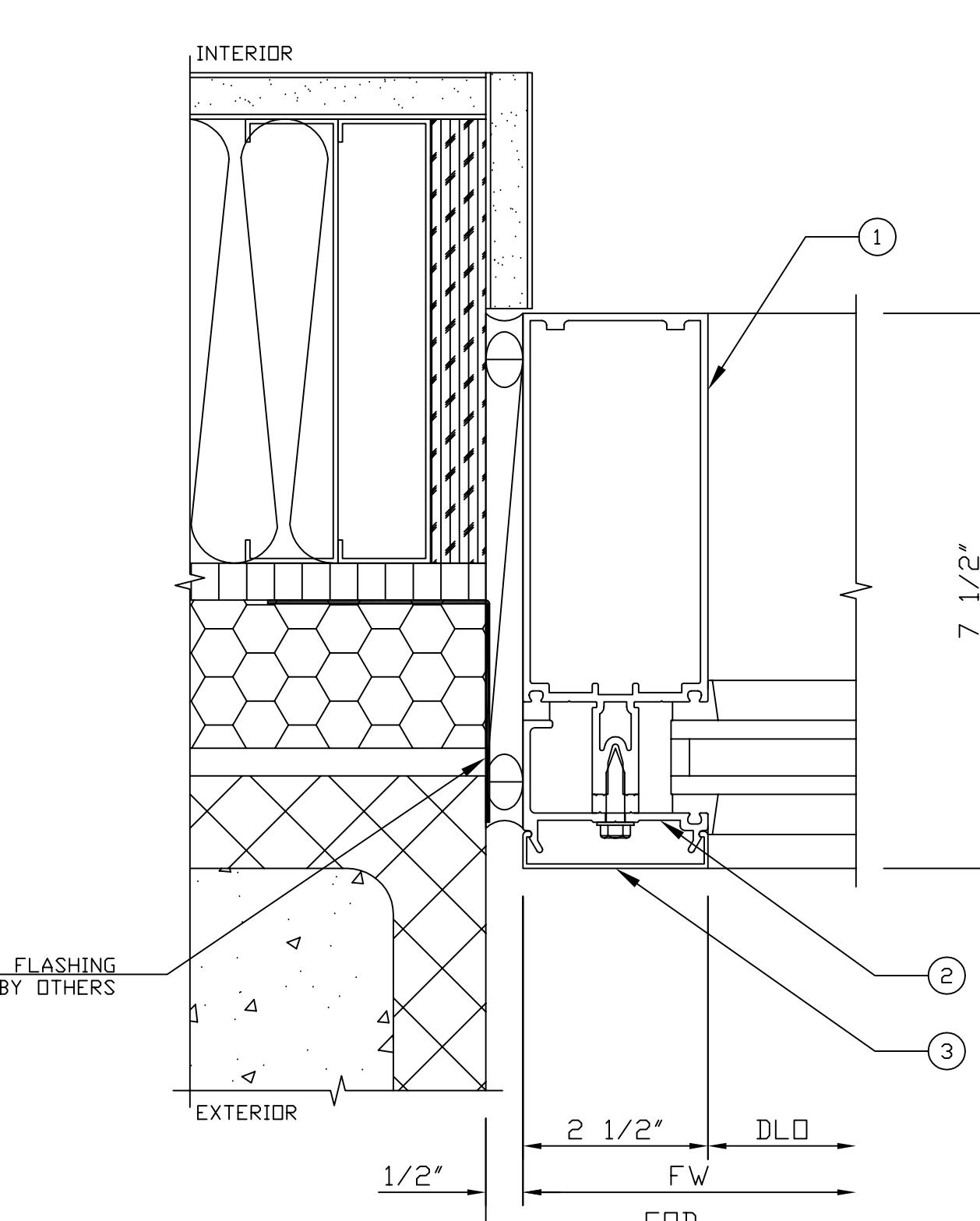
NO.	DESCRIPTION	DATE
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2	2nd SUBMISSION	
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47	47th SUBMISSION	
48	48th SUBMISSION	
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51	DRAWING SUBMISSION	

**PERFORMANCE**  
Glass & Aluminum Inc.

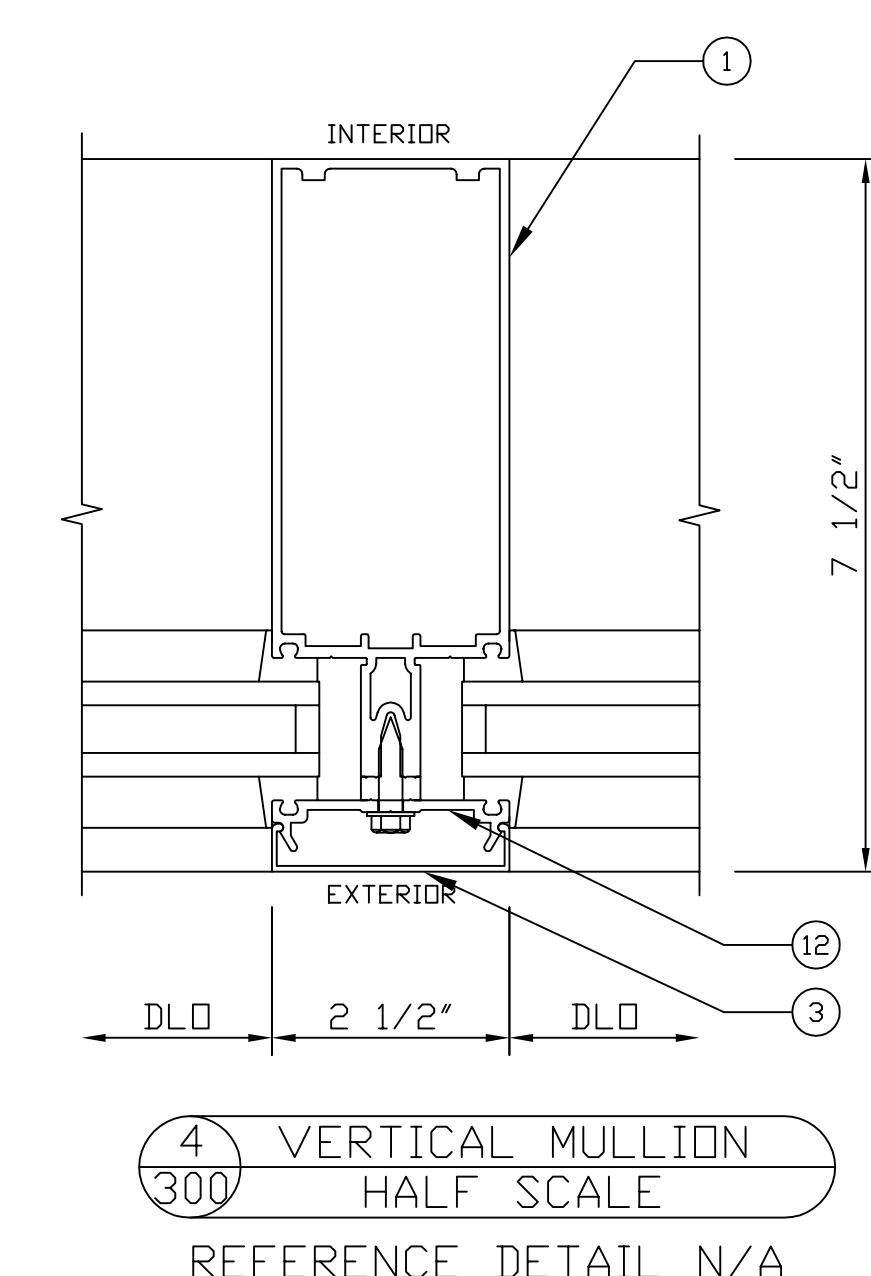
AUSTIN, TEXAS 501 W POWELL, STE 211  
AUSTIN, TX 78733  
p 512.632.4656

EL PASO, TEXAS 11111 ROJAS  
EL PASO, TX 79935  
p 915.592.5583

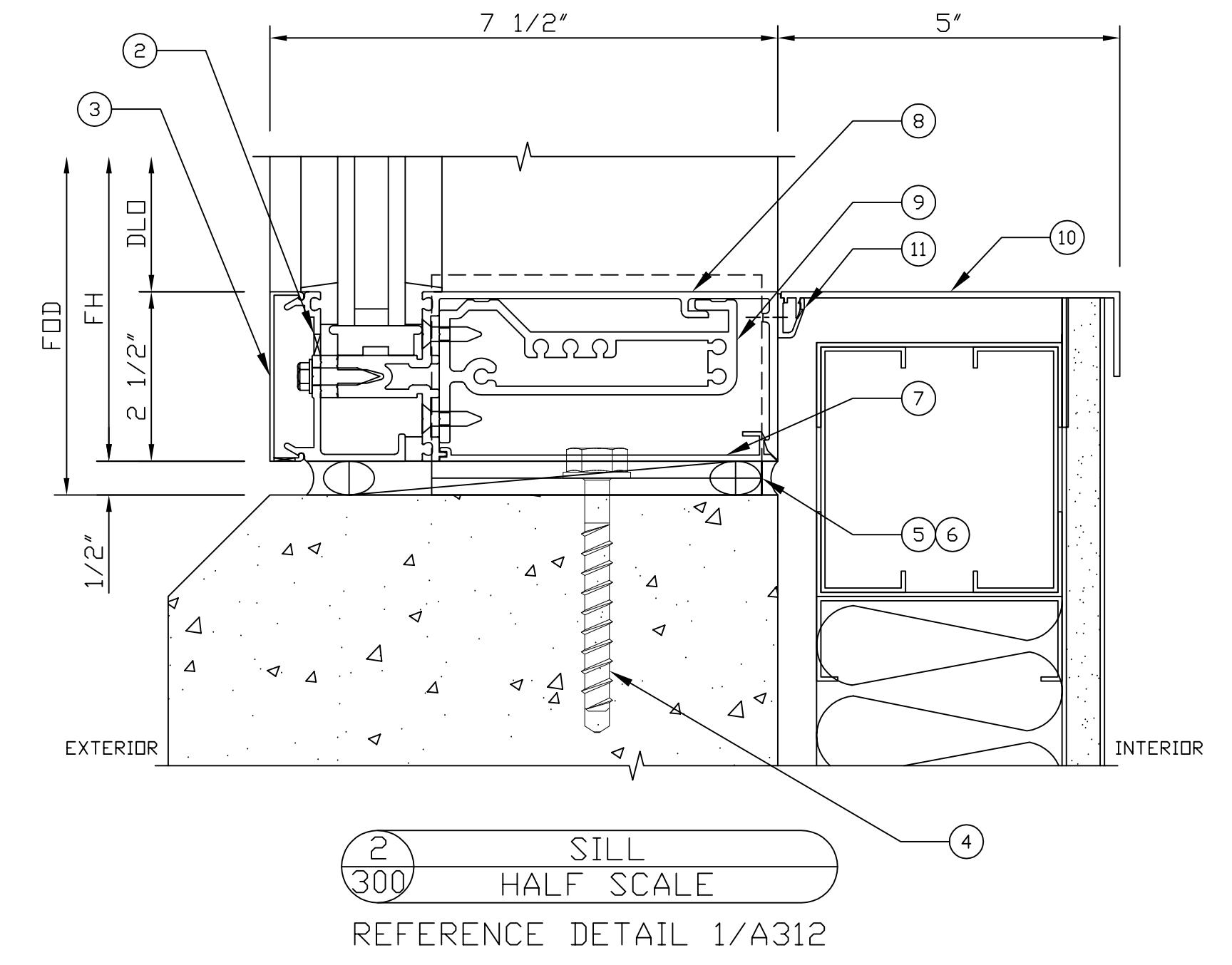
PROJECT:	UT-AUSTIN -- SEAY BUILDING ADDITION
LOCATION:	AUSTIN, TEXAS
ARCHITECT:	BSA LIFE STRUCTURES
CONTRACTOR:	SPANGLASS
CUSTOMER:	N/A
TITLE:	DETAILS
DRAWN BY:	D.R.
DATE:	05/21/20
CHECKED BY:	L.G.
DATE:	05/21/20
JOB NO.:	PGA_2020-085
SHEET NO.:	300



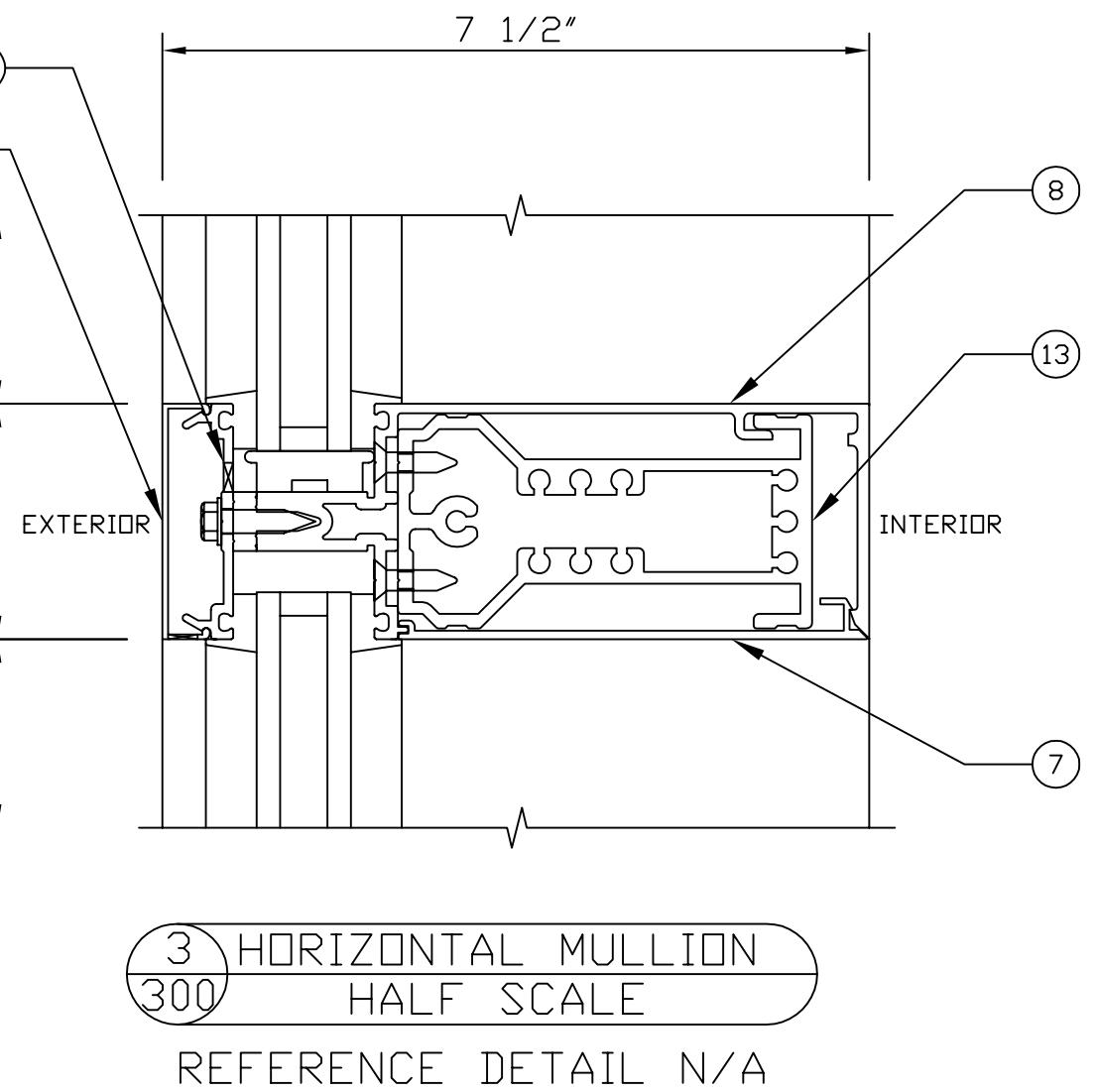
REFERENCE DETAIL 1/A350; 11/A350



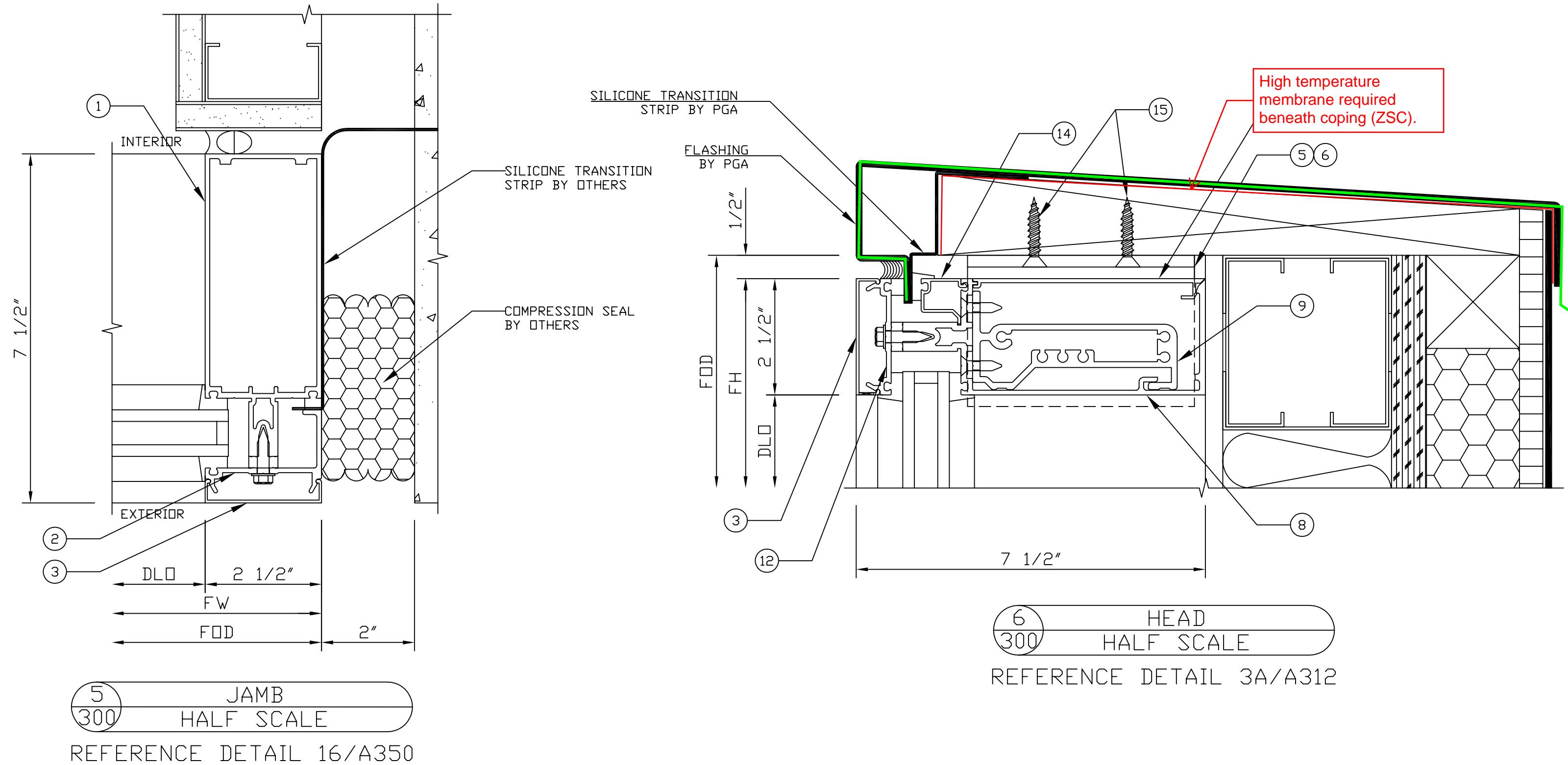
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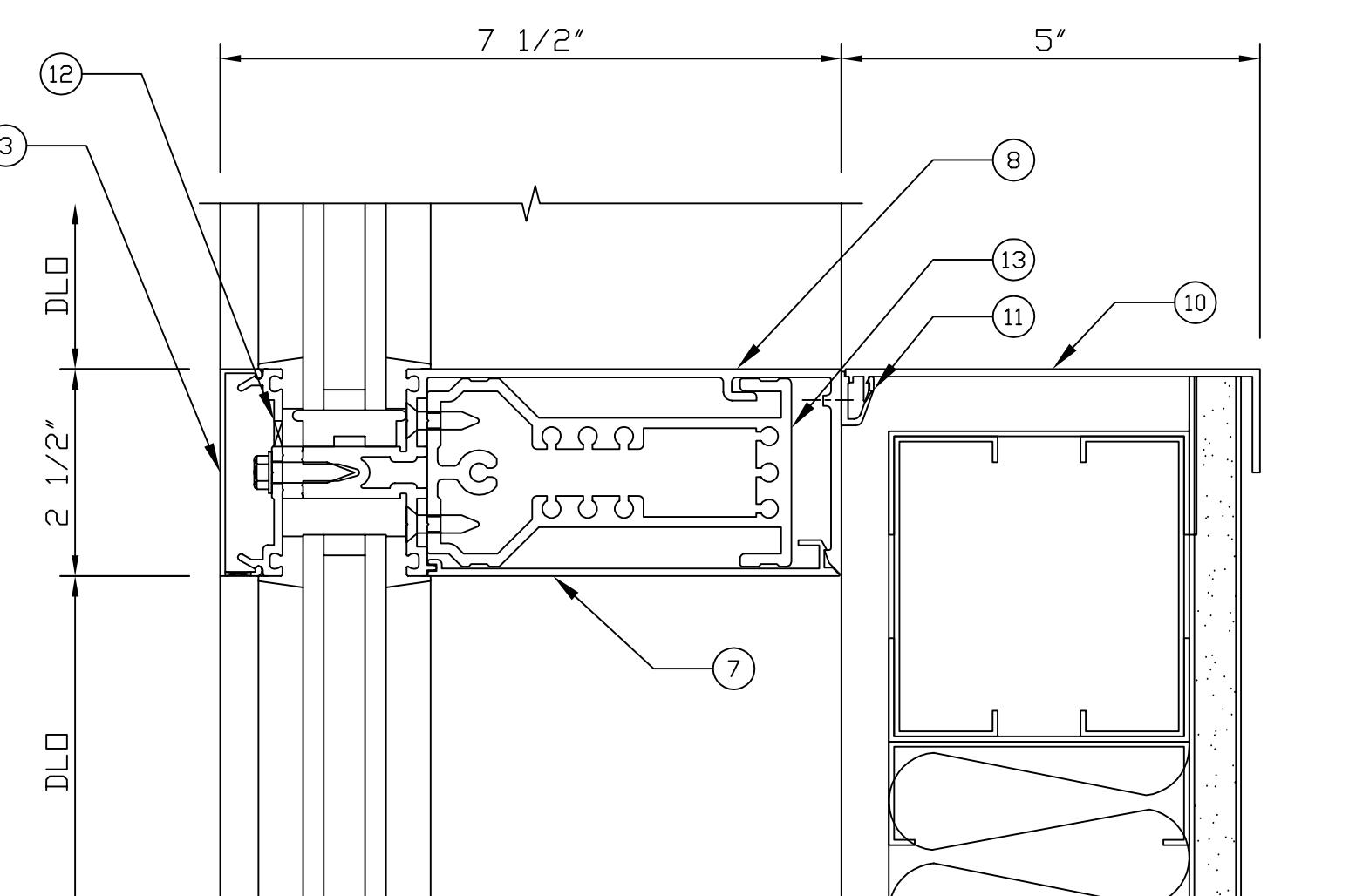
REFERENCE DETAIL 1/A312



(3) HORIZONTAL MULLION  
300 HALF SCALE  
REFERENCE DETAIL N/A



REFERENCE DETAIL 3A/A312



REFERENCE DETAIL 2/A312

## ARTS LIST

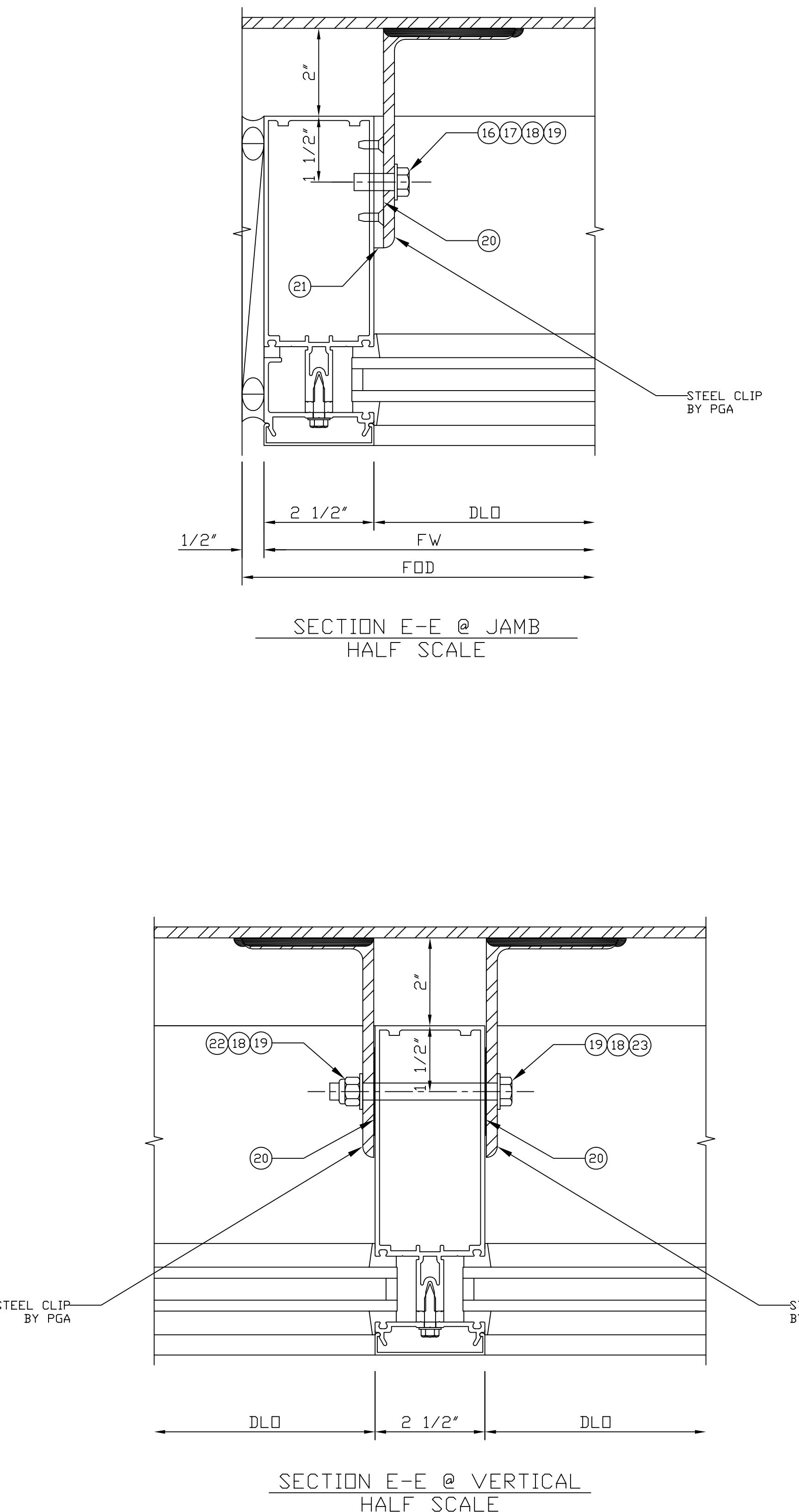
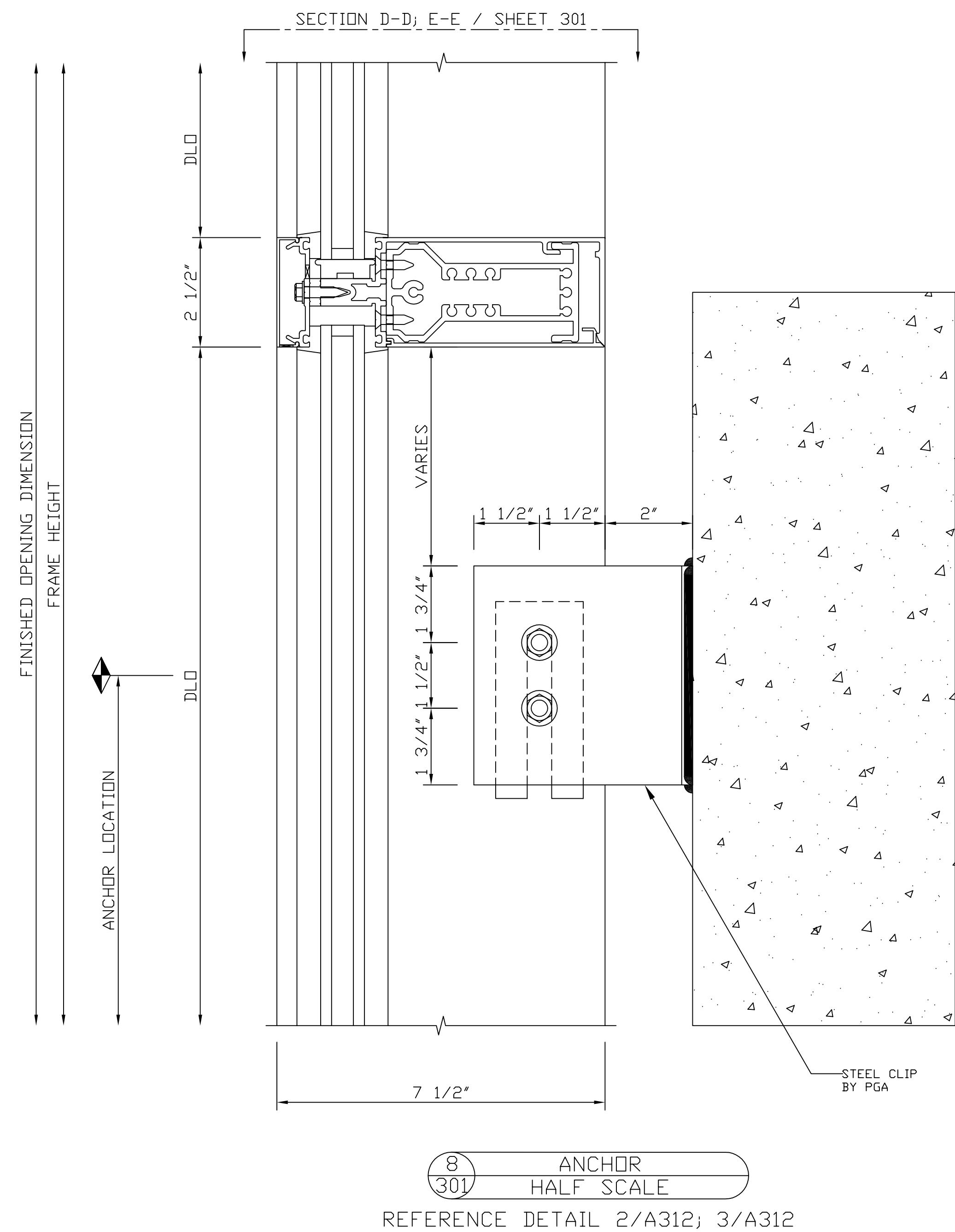
	EL PASO, TEXAS 11111 ROJAS EL PASO, TX 79935 p 915.592.5583	AUSTIN, TEXAS 501 W POWELL, STE 211 AUSTIN, TX 78753 p 512.632.4656
---------------------------------------------------------------------------------------	----------------------------------------------------------------------	------------------------------------------------------------------------------

**PERFORMANCE**  
Glass & Aluminum  
Inc.

[[L PASO, TEXAS 11111 ROJAS AUSTIN, TEXAS 501 W POWELL, STE 211  
EL PASO, TX 79935 AUSTIN, TX 78753  
p 915.592.5583 p 512.632.4656

p 915.592.5583 p 512.632.4656

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN,_TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAWGLASS		
CUSTOMER:	N/A		
TITLE:	DETAILS		
DRAWN BY:	D.R.		DATE: 05/21/20
CHECKED BY:	L.G.		DATE: 05/21/20
JOB NO.:	PGA_2020-085		
SHEET NO.:	301		



## PARTS LIST

PARTS LIST	
PART NO.	PART DESCRIPTION
162307	MULLION SPLICE SLEEVE
904208	1/4" -20 X 2" D FHTCMS

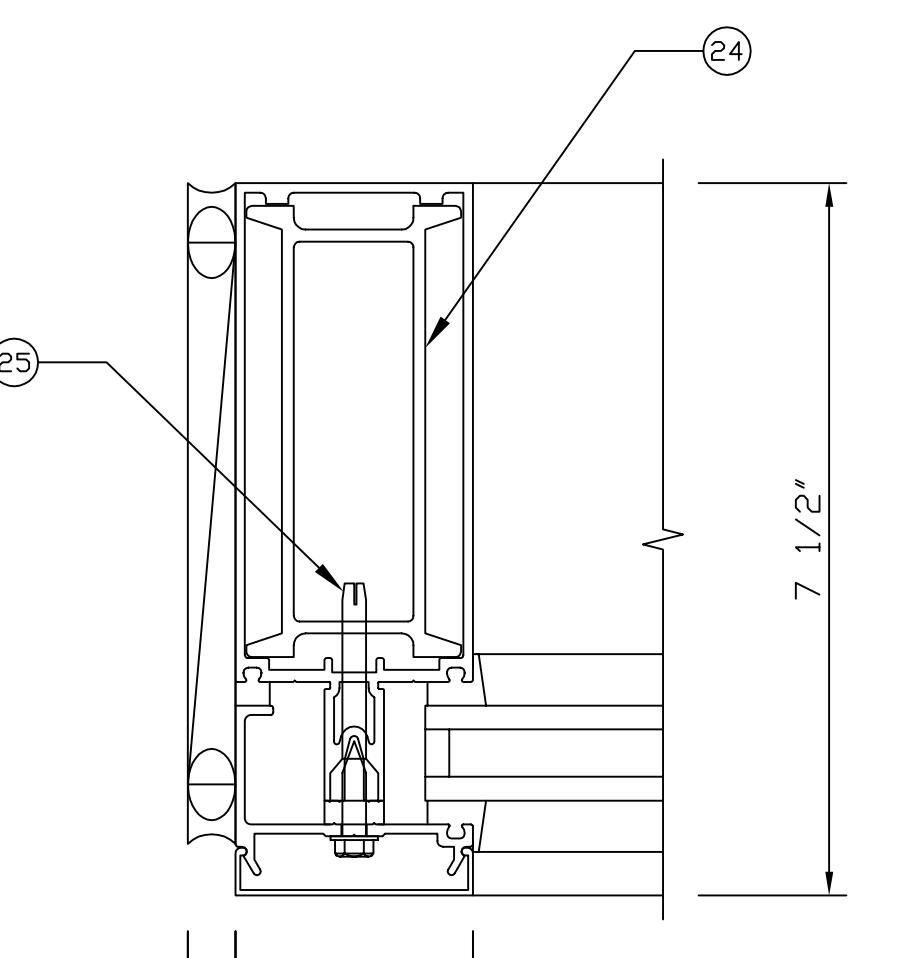
SECTION F-F; G-G / SHEET 302

This technical drawing illustrates the cross-section of a window frame, specifically detailing the mullion splice and cover splice locations. The vertical axis is labeled "FINISHED OPENING DIMENSION" and "FRAME HEIGHT". The horizontal axis is labeled "SPLICE LOCATION".

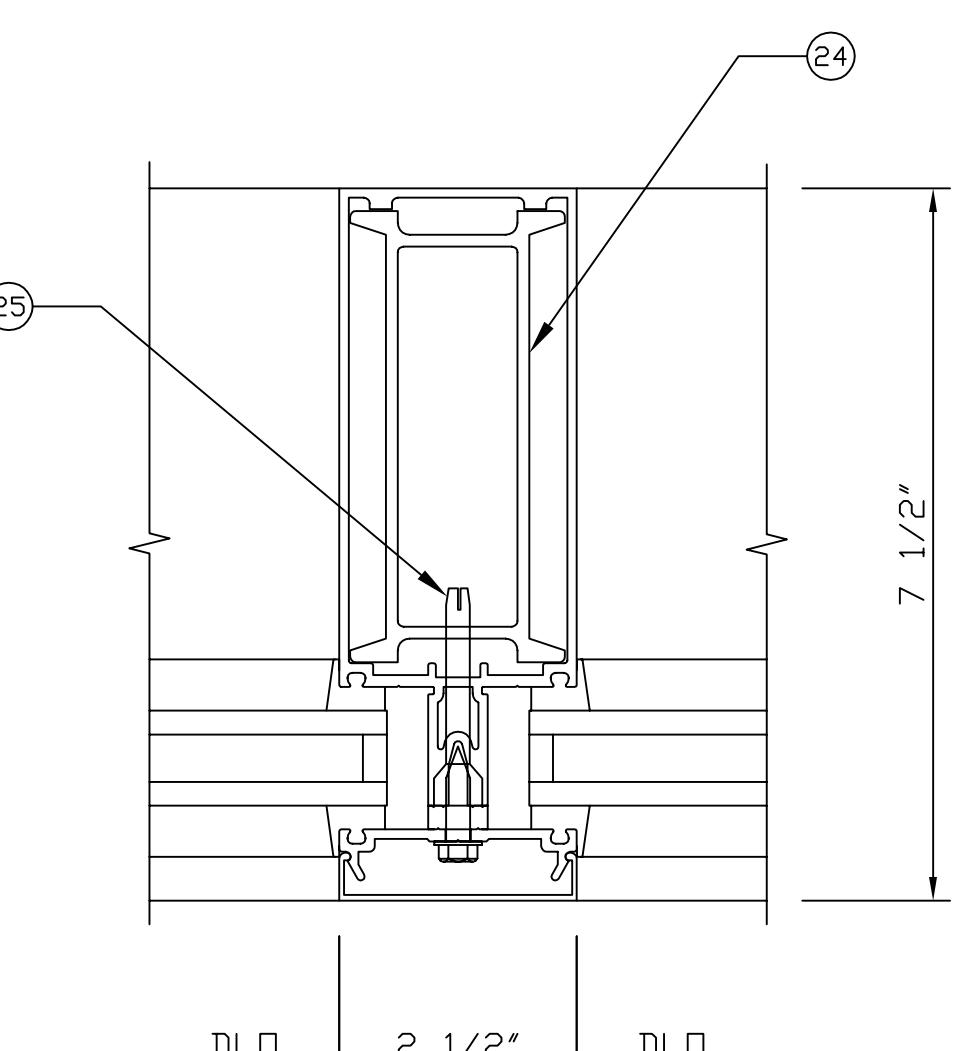
The drawing shows a series of vertical lines representing the frame and mullions. Key dimensions are indicated:

- MULLION SPLICE:** Located at the top, with a height of  $1\frac{1}{2}''$ .
- PR.PL. SPLICE:** Located below the mullion splice, with a height of  $\frac{1}{2}''$ .
- COVER SPLICE:** Located at the bottom, with a height of  $\frac{1}{2}''$ .
- Overall height:**  $6''$
- Total width:**  $7\frac{1}{2}''$

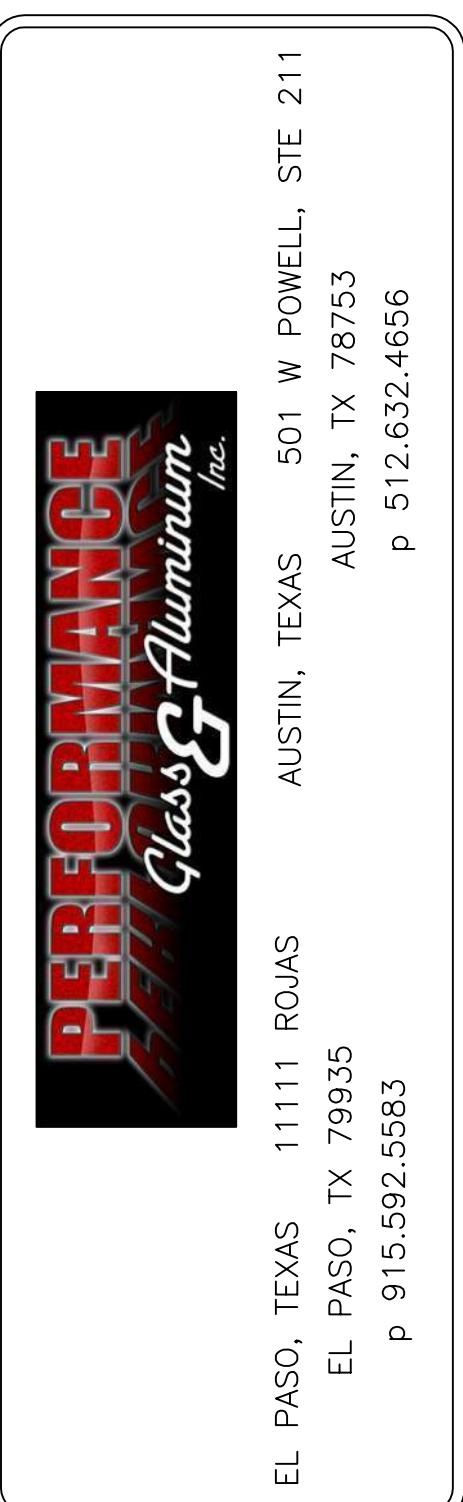
Dashed lines indicate hidden features or reference points.



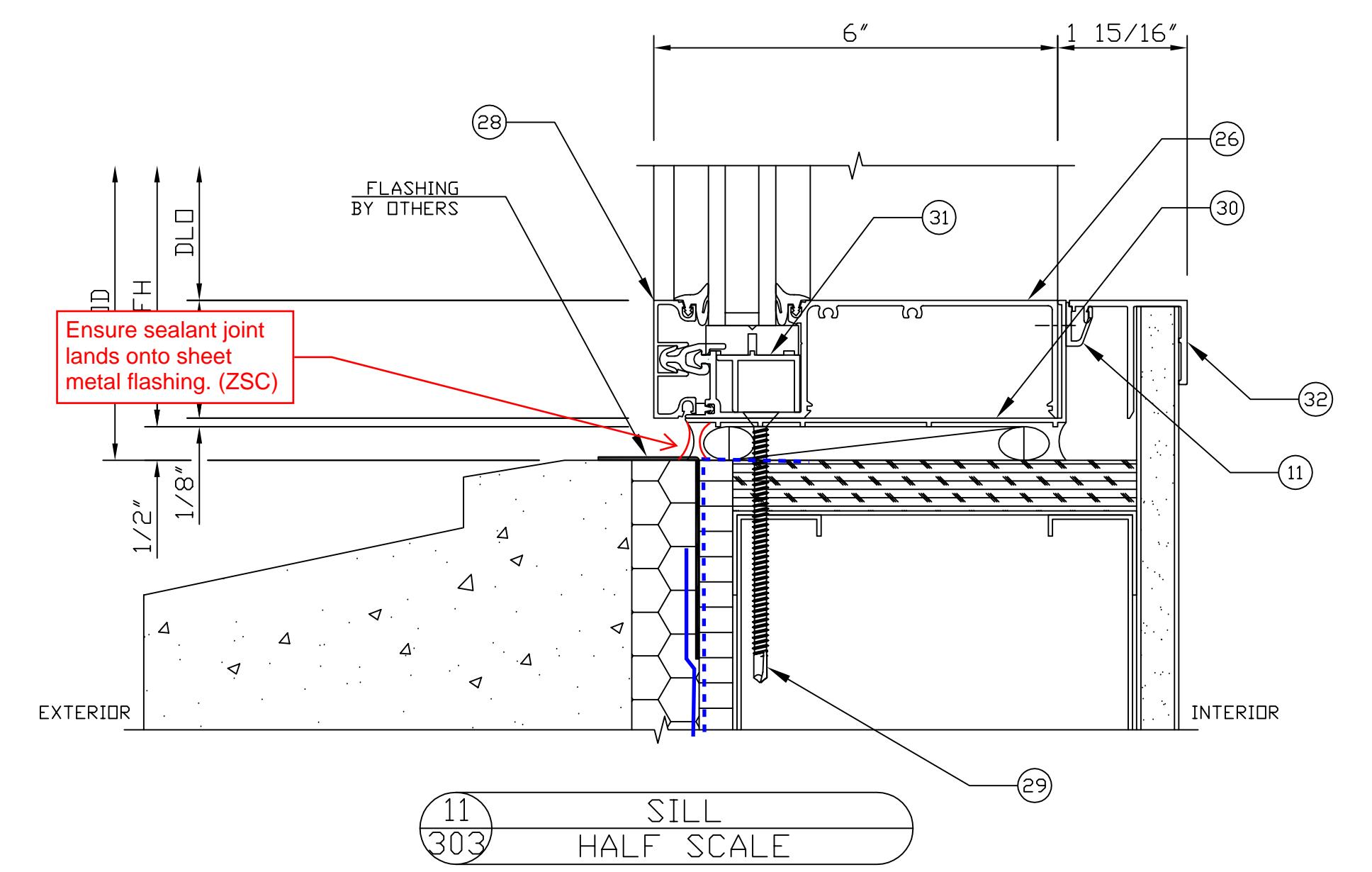
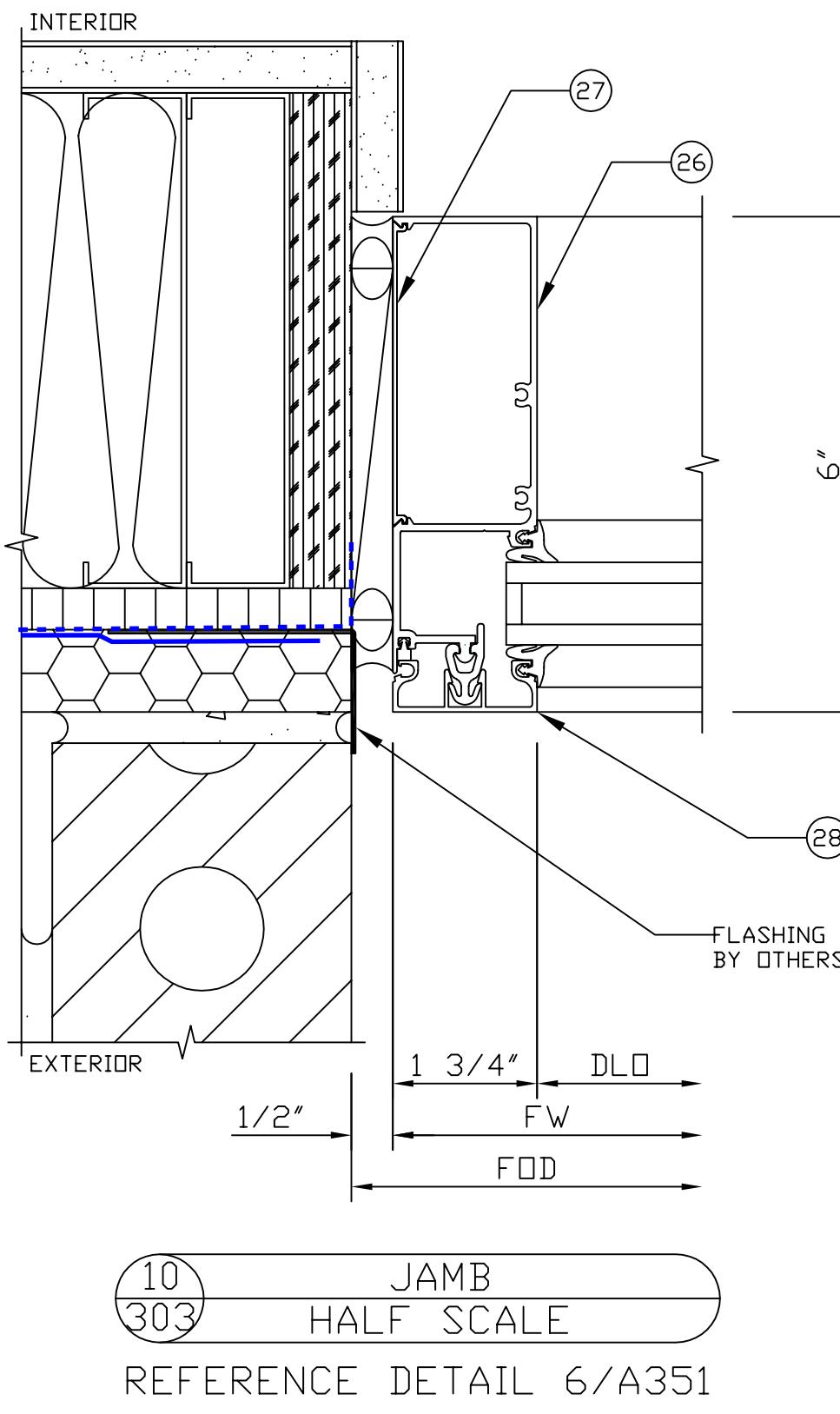
SECTION F-F @ JAMB  
HALF SCALE



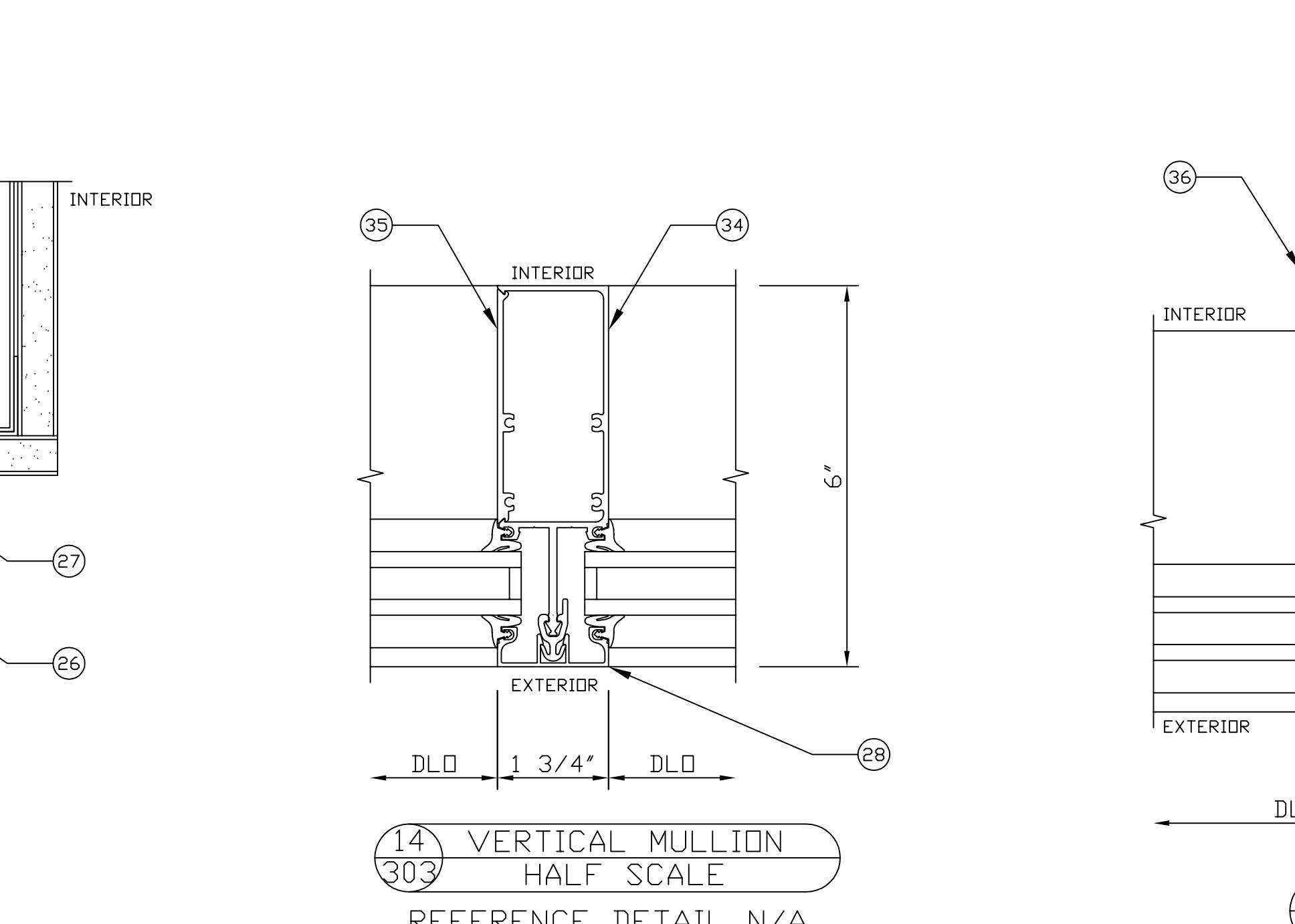
SECTION G-G @ VERTICAL  
HALF SCALE



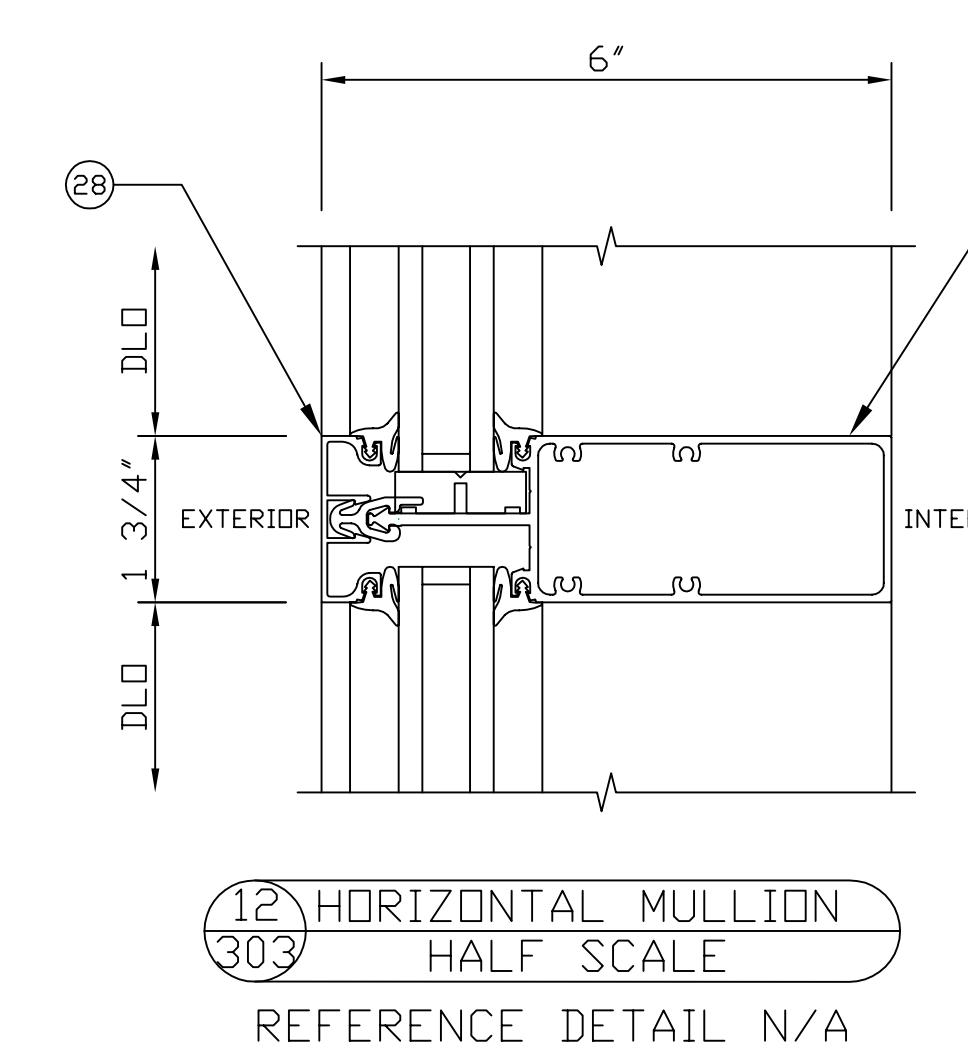
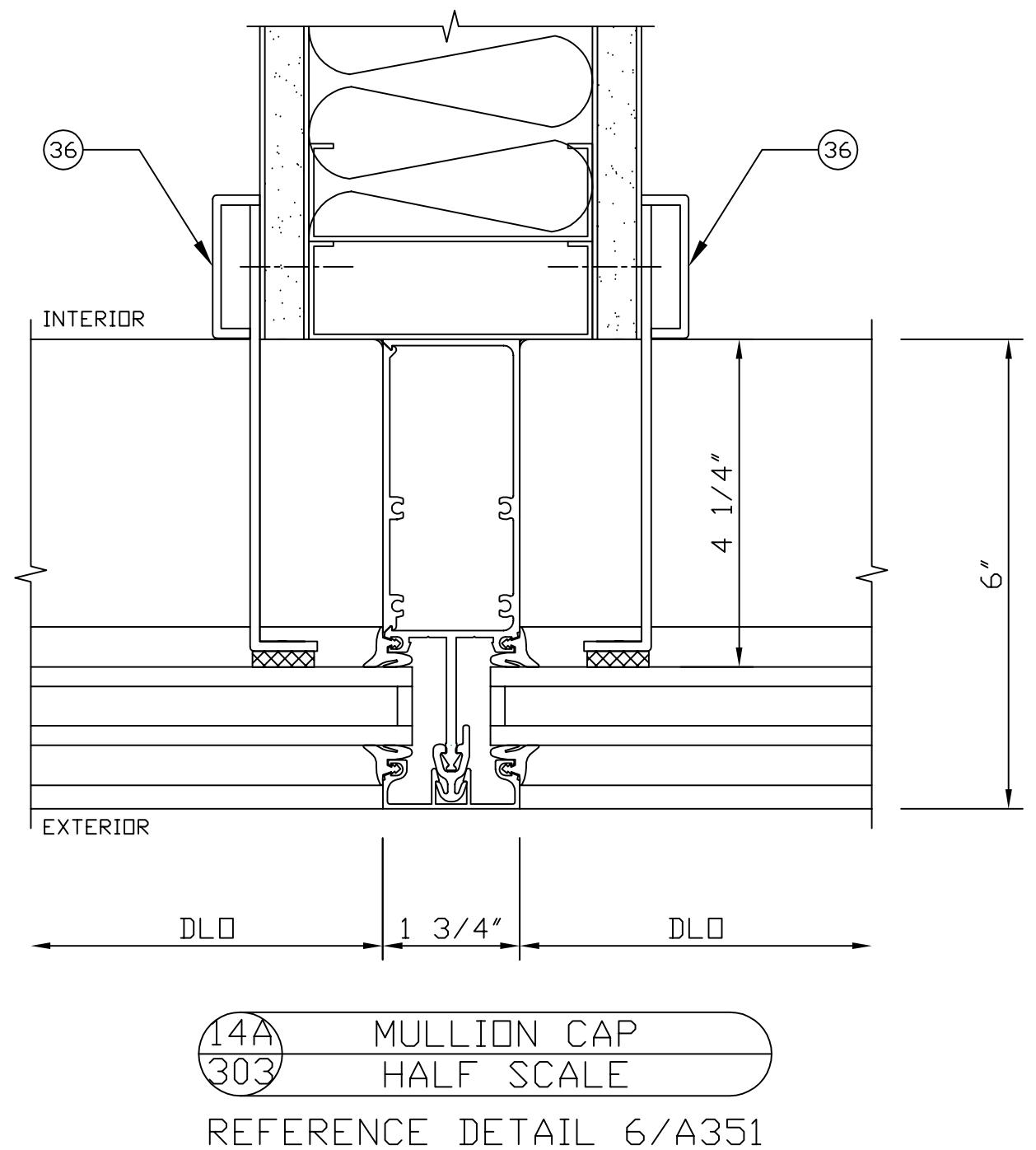
PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
DRAWN BY:	CONTRACTOR: SPAWGLASS		
CHECKED BY:	CUSTOMER: N/A		
JOB NO.:	TITLE: DETAILS		
SHEET NO.: 302			



NOTE TO ARCHITECT:  
ALL STOREFRONT FRAMES WERE RELOCATED 1" TO THE INTERIOR TO ALLOW FOR PROPER ANCHORING.



NOTE:  
MULLION CAP MAY BE REQUIRED.  
SEE FLOOR PLANS FOR DETAIL 14A/303.



PARTS LIST	
PART NO.	PART DESCRIPTION
11 69271	STOOL TRIM CLIP PACKAGE
26 175101	PERIMETER
27 175110	PERIMETER FILLER
28 175155	COVER
29 175102	5/16" DRILFLEX
30 175108	FLASHING
31 175164	SETTING BLOCK CHAIR
32 69264	STOOL TRIM
33 175103	MULLION
34 175105	OPEN BACK MULLION
35 175107	OPEN BACK FILLER
36 175108	MULLION CAP ASSEMBLY
37 175108	SSG MULLION
38 175643	DOOR JAMB ADAPTER
39 NOT USED	
40 175654	TRANSOM BAR
41 450506	SHEAR BLOCK PACKAGE
42 175251	Glass STOP

NO.	DESCRIPTION	DATE
1	1st SUBMISSION	05/21/20
2	2nd SUBMISSION	
3	3rd SUBMISSION	
4	4th SUBMISSION	
5	5th SUBMISSION	
6	6th SUBMISSION	
7	7th SUBMISSION	
8	8th SUBMISSION	
9	9th SUBMISSION	
10	10th SUBMISSION	
11	11th SUBMISSION	
12	12th SUBMISSION	
13	13th SUBMISSION	
14	14th SUBMISSION	
15	15th SUBMISSION	
16	16th SUBMISSION	
17	17th SUBMISSION	
18	18th SUBMISSION	
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21	21st SUBMISSION	
22	22nd SUBMISSION	
23	23rd SUBMISSION	
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28	28th SUBMISSION	
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30	30th SUBMISSION	
31	31st SUBMISSION	
32	32nd SUBMISSION	
33	33rd SUBMISSION	
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36	36th SUBMISSION	
37	37th SUBMISSION	
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40	40th SUBMISSION	
41	41st SUBMISSION	
42	42nd SUBMISSION	
43	43rd SUBMISSION	
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93	93rd SUBMISSION	
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96	96th SUBMISSION	
97	97th SUBMISSION	
98	98th SUBMISSION	
99	99th SUBMISSION	
100	100th SUBMISSION	

PROJECT:	UT-AUSTIN -- SEAY BUILDING - ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAWN GLASS		
CUSTOMER:	N/A		
TITLE:	DETAILS		
DRAWN BY:	D.R.	DATE:	05/21/20
CHECKED BY:	L.G.	DATE:	05/21/20
JOB NO.:	PGA_2020-085		
SHEET NO.:	303		

1st SUBMISSION	05/21/20						
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
							
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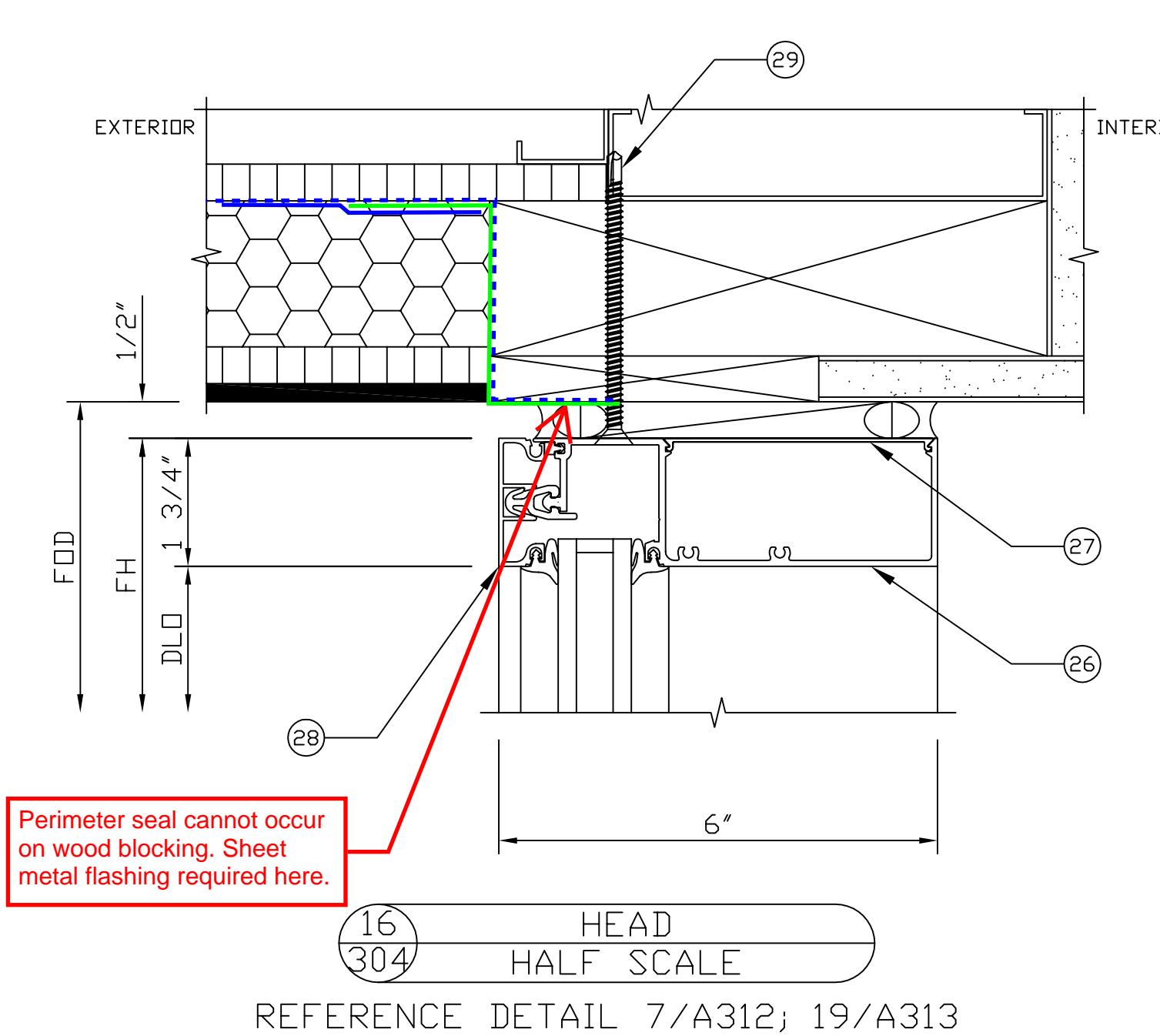
**Glass & Aluminum**  
Inc.

EL PASO, TEXAS 11111 ROJAS  
EL PASO, TX 79935  
p 915.592.5583

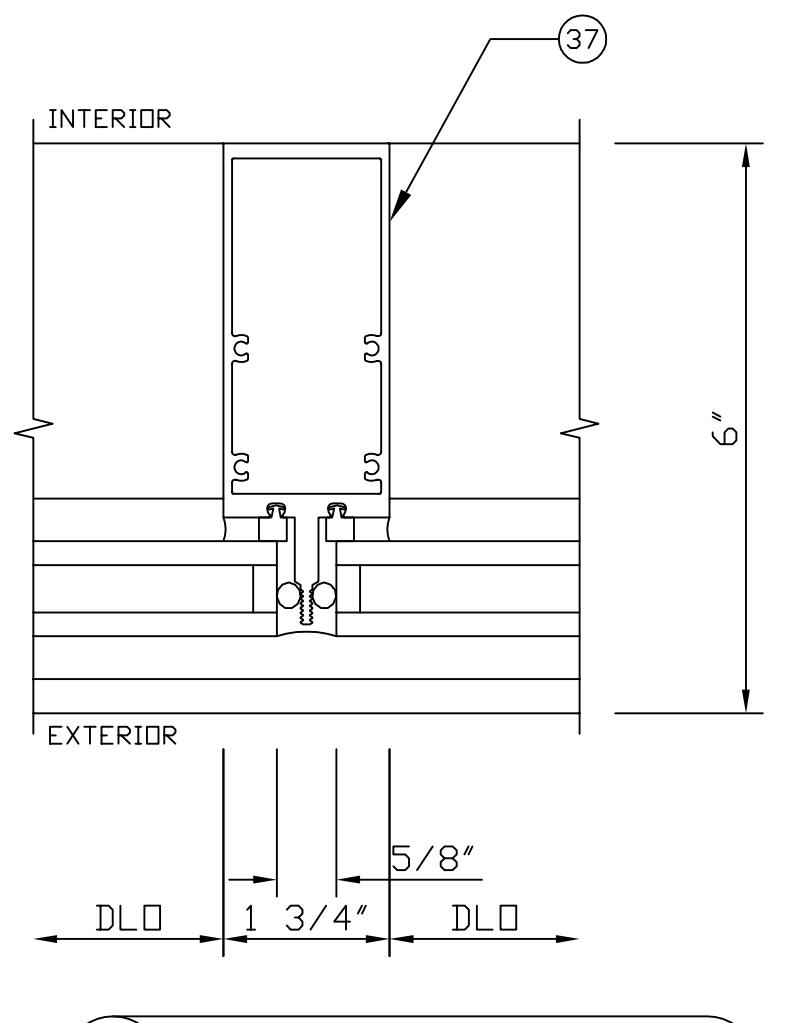
AUSTIN, TEXAS 501 W POWELL, STE 211  
AUSTIN, TX 78753  
p 512.632.4656

LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAWGLASS		
CUSTOMER:	N/A		
TITLE:	DETAILS		
BY: D.R.	DATE: 05/21/20		
BY: L.G.	DATE: 05/21/20		
NO.:			
A_2020-085			
NO.:			
304			

## ARTS LIST

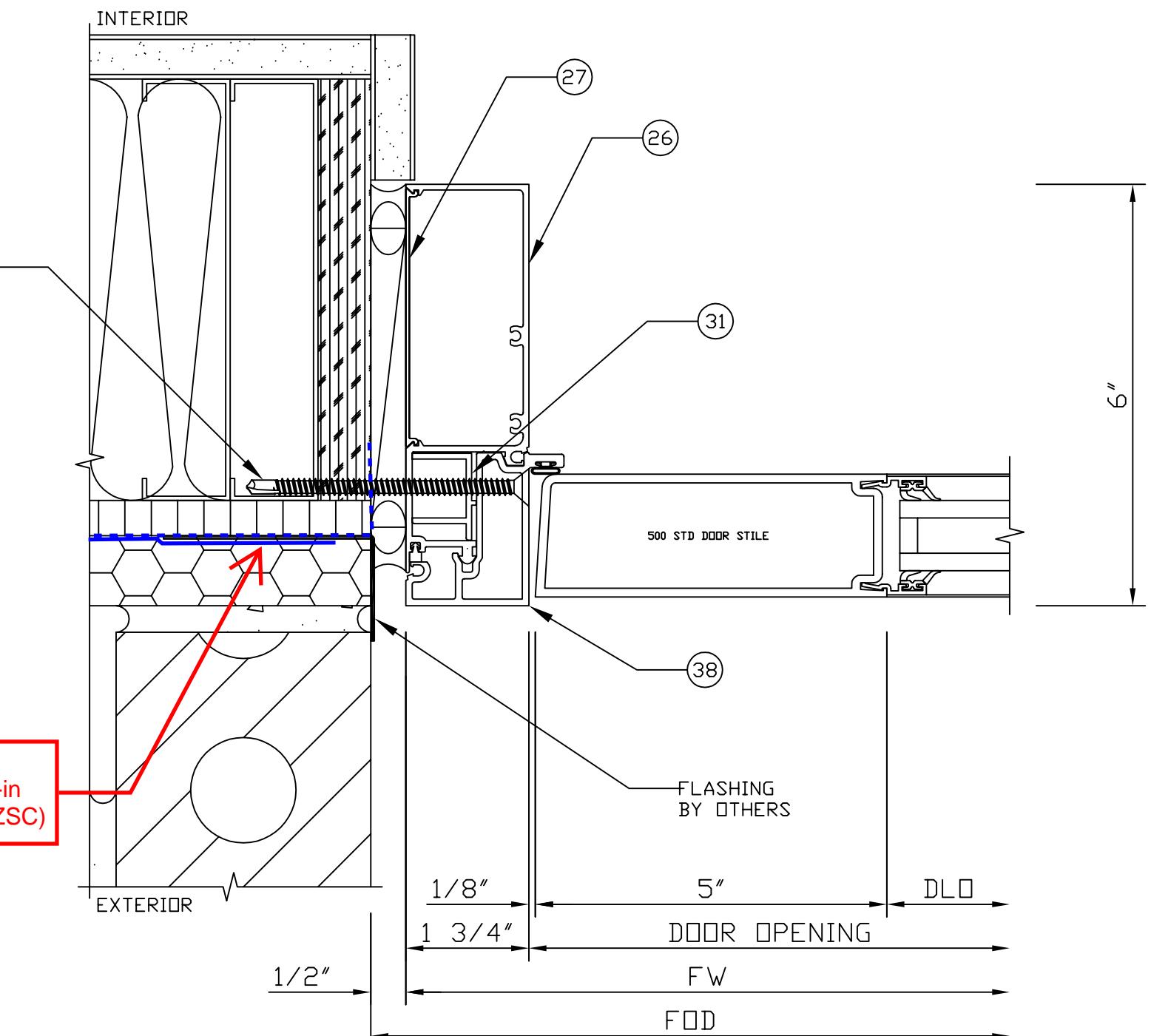


REFERENCE DETAIL 7/A312; 19/A313



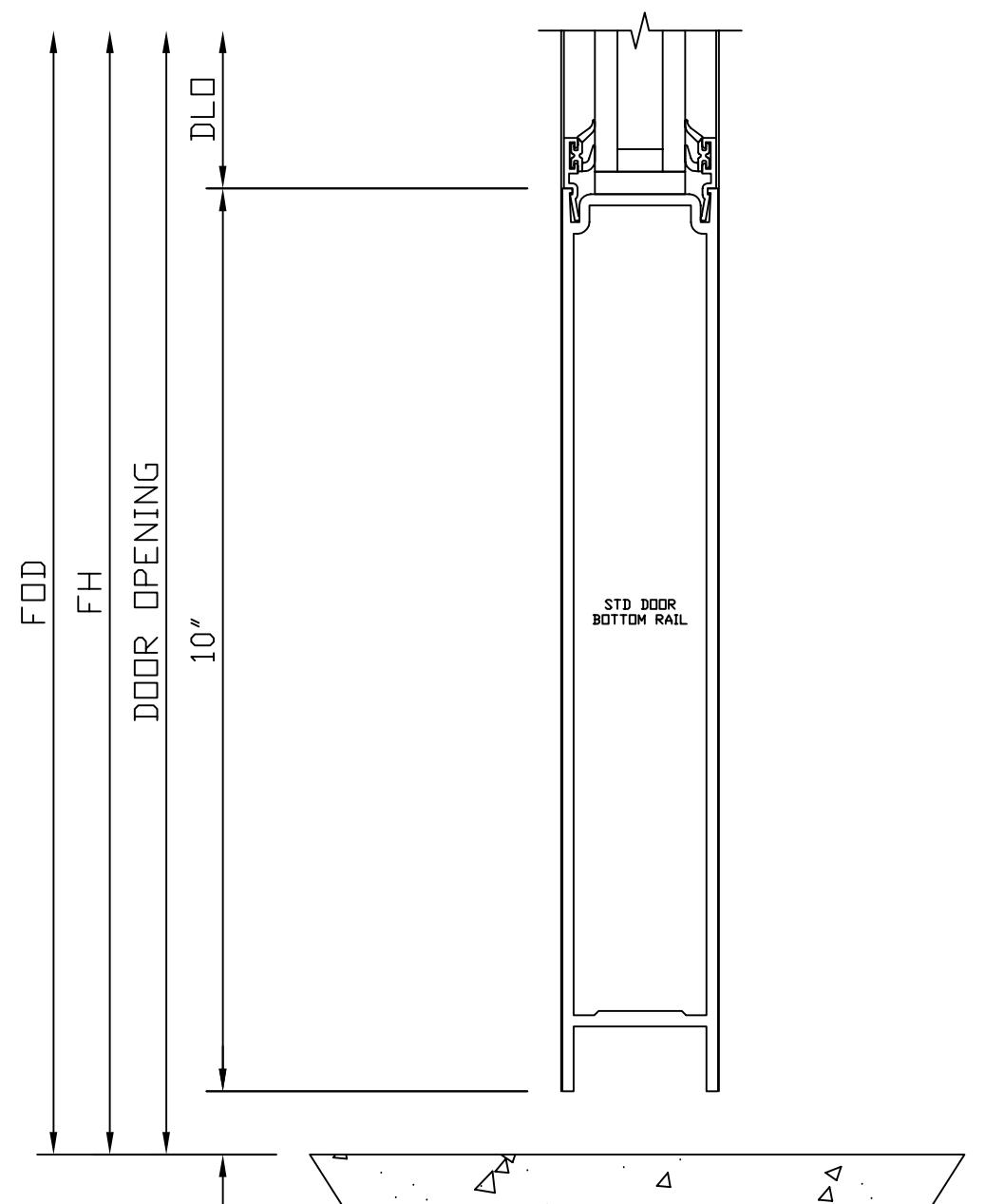
17 SSG VERT. MULLION  
304 HALF SCALE  
REFERENCE DETAIL N/A

NOTE:  
MULLION CAP MAY BE REQUIRED.  
SEE FLOOR PLANS FOR DETAIL 14A/303.



This technical drawing shows a cross-section of a door jamb. The left side features a circular callout containing the text '18' and '304'. The main body of the drawing is labeled 'DOOR JAMB' at the top and 'HALF SCALE' below it. At the bottom, the text 'REFERENCE DETAIL 12/A2E2' is visible.

REFERENCE DETAIL 13/A350

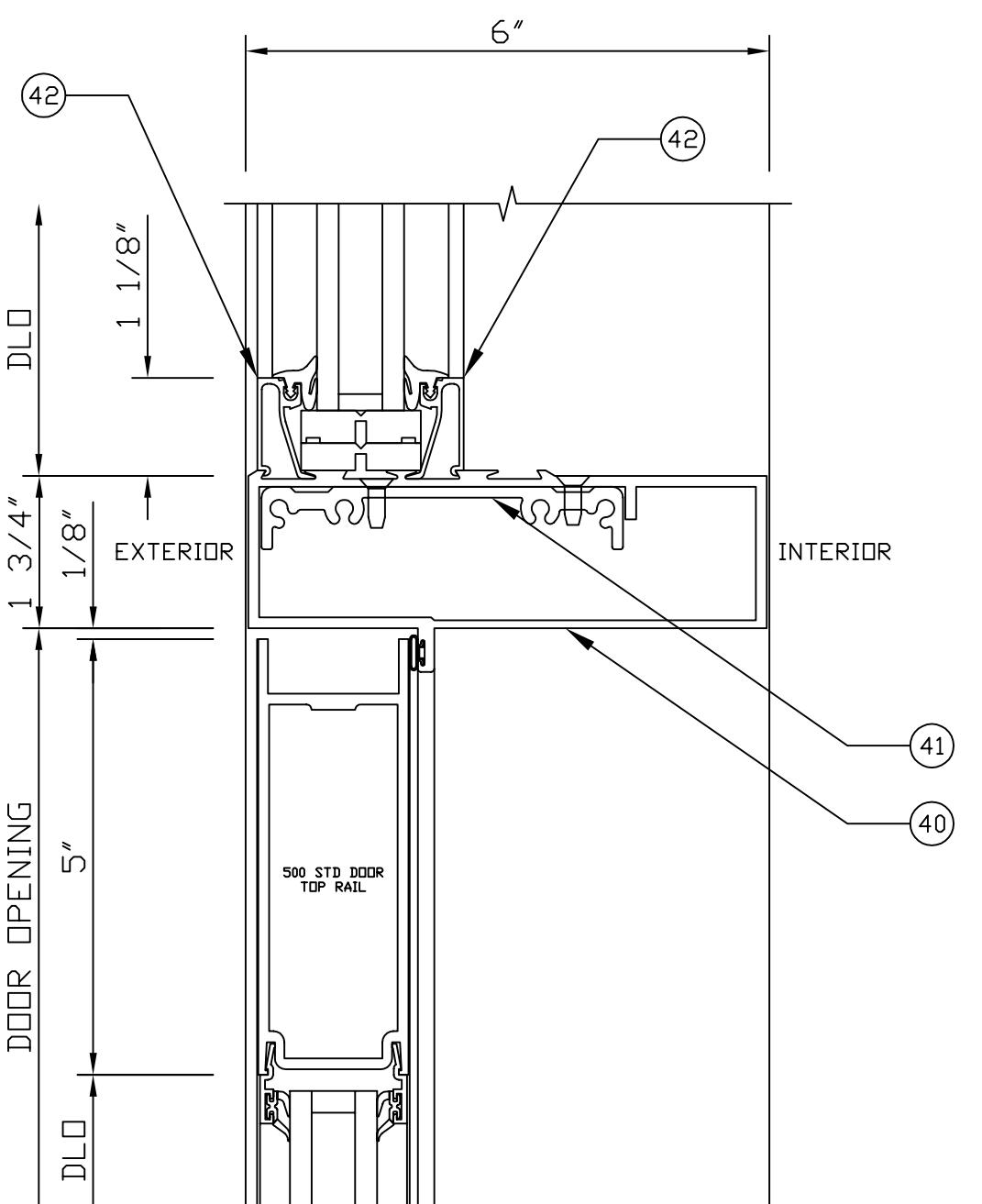


19  
304

BOTTOM RAIL  
HALF SCALE

REFERENCE DETAIL 4/A312

REFERENCE DETAIL 4/A312



20  
304

TRANSOM  
HALF SCALE

REFERENCE DETAIL E-1010

REFERENCE DETAIL 5/A312

Forensic Architecture  
Exterior Envelope Consulting  
Water Infiltration Testing  
Inspection Services

[www.z6consulting.com](http://www.z6consulting.com)  
1027 Tremont Street  
Galveston, TX 77550  
Phone (409) 740-0090



## SUBMITTAL REVIEW

Submittal No.: 084113-002R1

Description: Aluminum Framed Entrances and Storefronts - SD

Project Name: UT Austin - SEA

Project No.: 102-1219

- NO EXCEPTIONS TAKEN
- SUBMIT SPECIFIED ITEM(S)
- ACTION NOT REQUIRED
- EXCEPTIONS NOTED
- REVISE AND RESUBMIT
- NOT REVIEWED

Corrections and notations on Shop Drawings during this review do not relieve this Contractor from complying with the requirements of the Contract Documents. This review is only for check of general conformance with the design concept of the project and general compliance with the information given in contract documents. Contractor is responsible for confirming and coordinating all quantities and dimensions, selecting fabrication processes and techniques of construction, and performing his work in a safe manner.

BY:

DATE: 2020/09/22

Submittal Comments:

1. See comments below in red.



SpawGlass Contractors, Inc.  
9331 Corporate Drive  
Selma TX 78154

## TRANSMITTAL

No. 0351

PROJECT: UT Seay Building Addition

DATE: 09/21/2020

TO: BSA Lifestructures  
AL

RE: Aluminum-Framed Entrances and Storefronts - Shop Drawings

ATTN: Ramon Arteaga

JOB: 3018105

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
<input type="checkbox"/> Shop Drawings	<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> Approved as Submitted
<input type="checkbox"/> Letter	<input type="checkbox"/> Your Use	<input type="checkbox"/> Approved as Noted
<input type="checkbox"/> Prints	<input type="checkbox"/> As Requested	<input type="checkbox"/> Returned After Loan
<input type="checkbox"/> Change Order	<input type="checkbox"/> Review and Comment	<input type="checkbox"/> Resubmit
<input type="checkbox"/> Plans		<input checked="" type="checkbox"/> Submit
<input type="checkbox"/> Samples	<b>SENT VIA:</b>	<input type="checkbox"/> Returned
<input type="checkbox"/> Specifications	<input type="checkbox"/> Attached <input type="checkbox"/> Separate Cover	<input type="checkbox"/> Returned for Corrections
<input type="checkbox"/> Other:		<input checked="" type="checkbox"/> Due Date: 10/05/2020
<input checked="" type="checkbox"/> Submittal:		<input type="checkbox"/> Other:

Line	Item	Package	Code	Cycle	Qty	Date	Description	Status
1	Submittal		084113-002	2		09/21/2020	Aluminum-Framed Entrances and Storefronts - Shop Drawings	Submitted for Approval

### SpawGlass Contractors, Inc.

REVIEWED FOR COMPLIANCE

COMMENTS NOTED

REVISE AND RESUBMIT

OTHER:

DATE 9/21/2020    SPEC# 084113

REVIEWED BY tanner.hawkins

SUBMITTAL# 084113-002R1

APPROVAL DOES NOT RELIEVE THE SUBCONTRACTOR  
OR SUPPLIER OF RESPONSIBILITY FOR ACCURACY,  
COMPLETENESS, QUANTITIES, DIMENSIONS, AND  
COMPLIANCE WITH CONTRACT DOCUMENTS

### REMARKS:

SpawGlass Comments Noted

CC:

Signed: Tanner Hawkins

Tanner Hawkins



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

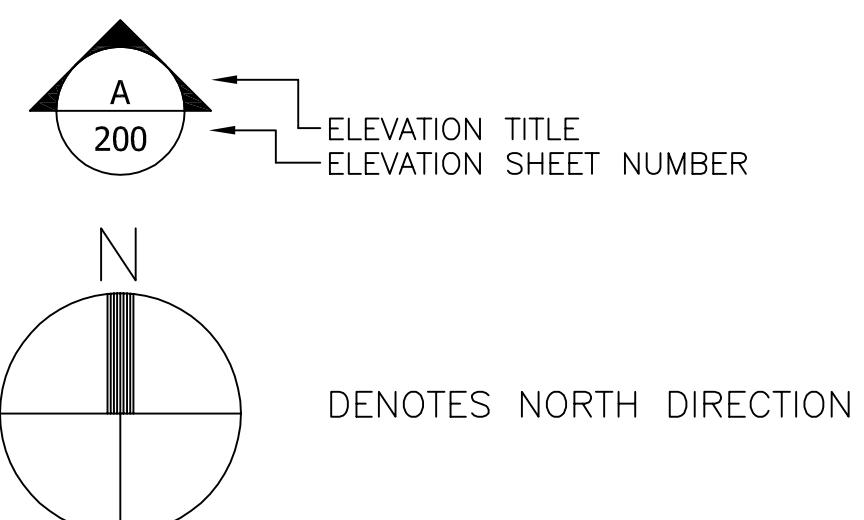
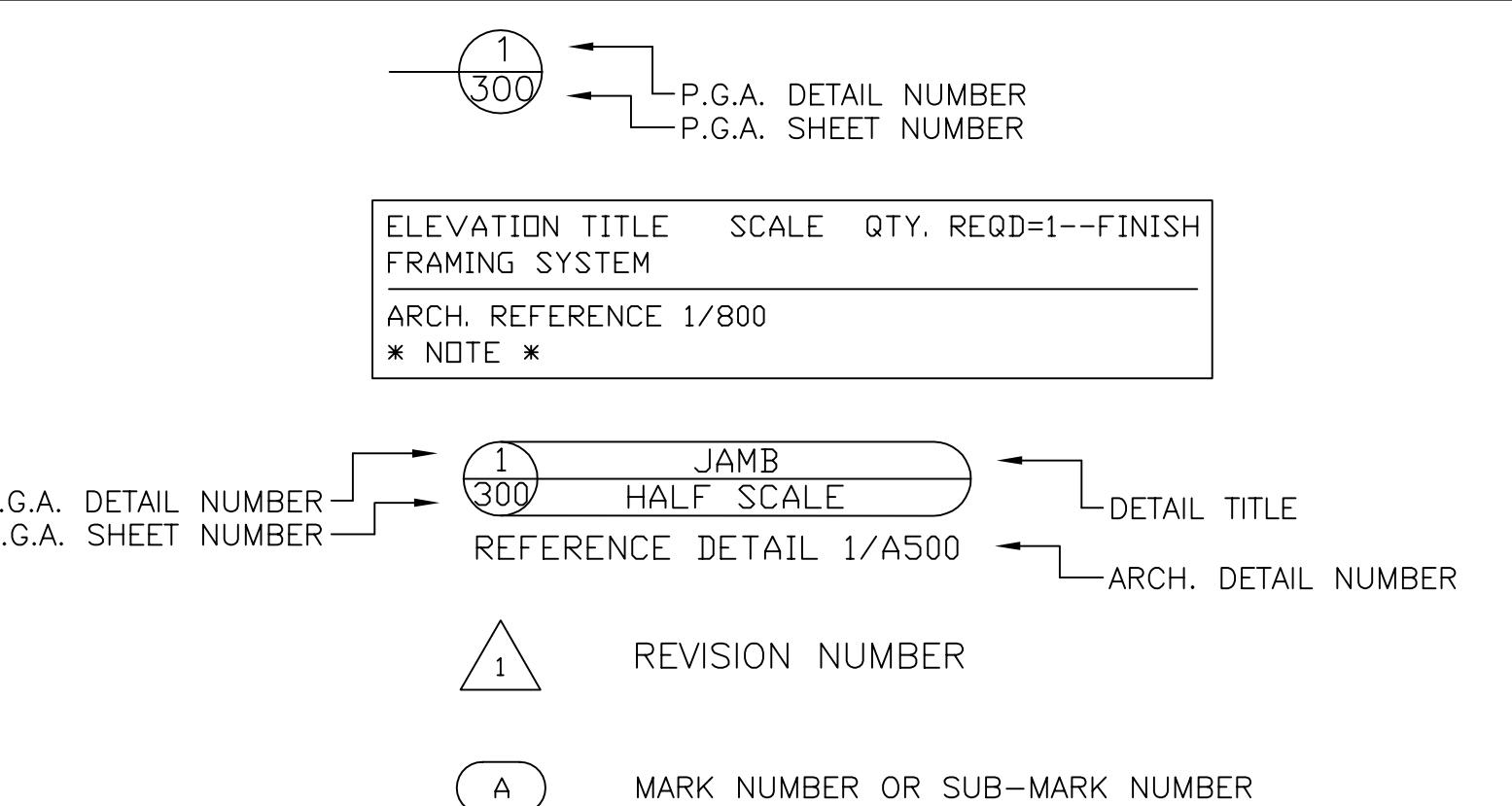
Contractor: SpawGlass

Section 08 41 13  
Aluminum-Framed Entrances and Storefronts

1.4 Action Submittals  
C. Shop Drawings

## LEGENDS/SYMBOLS

FINISHED WOOD	PLYWOOD
DIMENSION LUMBER	BATT INSULATION
BRICK	GYPSUM BOARD
E. I. F. SYSTEM	SHEATHING
CUT STONE	STUCCO
CONCRETE	ACOUSTICAL CEILING
C. M. U. BLOCK	RIGID INSULATION
STEEL	ALUMINUM
BLOCKING OR SHIM; NOT CONTINUOUS, NOT NECESSARILY ONE PIECE	



DENOTES NORTH DIRECTION



EL PASO, TEXAS

11111 ROJAS

EL PASO, TX 79935

AUSTIN, TEXAS

501 W. POWELL, STE 211

AUSTIN, TX 78753

## GENERAL NOTES

- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION PERTAINING TO THE LOCATION OF ALL HVAC RISERS, PIPING, AND THE LIKE, FOR ANY POSSIBLE INTERFERENCE WITH ANCHORING OF INSERTS AND PRODUCT ASSEMBLY.
- ALL OPENINGS TO BE FINAL ADJUSTED IN ACCORDANCE WITH APPROVED TOLERANCES PRIOR TO START OF FRAME ERECTION BY OTHERS.
- GENERAL CONTRACTOR TO REVIEW AND APPROVE ALL DIMENSIONS PRIOR TO FABRICATION RELEASE.
- COORDINATE ALL CONCRETE AND MASONRY WORK ADJACENT TO PRODUCT SYSTEM WITH APPROPRIATE TRADES.
- COMMENTS SHOWN ONCE APPLY TO ALL SIMILAR CONDITIONS.
- ARCHITECT, GENERAL CONTRACTOR AND CUSTOMER NOTES: ALL OPENING DIMENSIONS, REFERENCE DIMENSIONS, AND ANCHOR LOCATION DIMENSIONS MUST BE VERIFIED. APPROVAL OF THESE DRAWINGS WILL BE CONSIDERED A RECORD ACCEPTANCE EVEN IF DIFFERING FROM THE ARCHITECTURAL PLANS. ANY FIELD DIMENSIONS THAT MAY BE REQUIRED ARE BY P.G.A.

P.G.A. WILL NOT ASSUME ANY RESPONSIBILITY FOR THE FOLLOWING ITEMS:

- ERRORS RESULTING FROM THE USE OF THESE DRAWINGS BY OTHER TRADES.
- COORDINATION OF OTHER TRADES' DRAWINGS TO THESE DRAWINGS.
- ERRORS RESULTING FROM FABRICATING MATERIALS IN ACCORDANCE WITH APPROVED DRAWINGS THOUGH DIFFERING FROM THE PLANS AND SPECIFICATIONS.
- VARIANCE OF OPENING DIMENSIONS AND/OR MATERIAL REQUIREMENTS AFTER SHOP DRAWINGS ARE APPROVED. REQUEST FOR REVISIONS AFTER DRAWINGS APPROVED WILL BE SUBJECT TO A MINIMUM HANDLING CHARGE PLUS THE COST OF ANY ADDITIONAL MATERIAL AND LABOR.

# U.T. AUSTIN SEAY BUILDING ADDITION

GLAZING SCHEDULE	
NOTE: P.G.A. WILL NOT ASSUME ANY RESPONSIBILITY FOR GLAZING TYPE LOCATIONS SHOWN ON THESE DRAWINGS FOR GLAZING SUPPLIED AND INSTALLED BY OTHERS. THE ARCHITECT / GENERAL CONTRACTOR ARE TO REVIEW AND VERIFY ALL GLAZING TYPES AND LOCATIONS.	
TYPE	DESCRIPTION
GLS	1" CLEAR INSULATED W/ LOW-E HEAT STRENGTHENED 1/4" CLEAR W/ SNX 62/27 LOW-E (#2) H.S. 1/2" AIR 1/4" CLEAR ANNEALED
GL5	1" CLEAR INSULATED W/ LOW-E TEMPERED 1/4" CLEAR W/ SNX 62/27 LOW-E (#2) TEMPERED 1/2" AIR 1/4" CLEAR TEMPERED
GL6	1" INSULATED SPANDREL TEMPERED 1/4" CLEAR W/ SNX 62/27 LOW-E (#2) TEMPERED 1/2" AIR 1/4" CLEAR W/ OPACI-COAT-300 #3-4669 (#4) TEMPERED
GL7	1" INSULATED SPANDREL TEMPERED 1/4" CLEAR W/ SNX 62/27 LOW-E (#2) TEMPERED 1/2" AIR 1/4" CLEAR W/ SILK SCREEN CERAMIC FRIT (#3) TEMPERED (60% COVERAGE; 1/8" HOLES)

**PRODUCTS USED:**

CURTAIN WALL SERIES: KAWNEER 1600 SYSTEM 1 CURTAIN WALL  
2-1/2" X 7-1/2"; SHEAR BLOCK; 'F' & 'T' ANCHORS

STOREFRONT SERIES: KAWNEER ENCORE STOREFRONT  
1-3/4" X 6"; TYPE A; FRONT SET; SCREW SPLINE

DOOR SERIES: KAWNEER 500 STANDARD WIDE STILE  
10" BOTTOM RAIL

**FINISH**

TYPE

#14 CLEAR ANODIZED  
 #40 DARK BRONZE ANODIZED

CLASS I  
 CLASS II  
 COMMERCIAL

BAKED-ON SILICONIZED POLYESTER  
 FLUROPOLYMER "70% KYNAR 500" BASED HIGH-PERFORMANCE COATING

OTHER \_\_\_\_\_

COLOR (FINISH # & COLOR) (PRODUCT)

SINGLE FINISH \_\_\_\_\_  
 SINGLE FINISH \_\_\_\_\_  
 DUAL FINISH INT. \_\_\_\_\_  
 EXTR. \_\_\_\_\_

**SHOP DRAWINGS PREPARED FROM:**

ARCHITECTURALS DATED: 10/31/2019  
A112, A113, A114, A115, A116, A200, A201, A202, A210, A211, A300, A301, A302, A303, A304, A305, A310, A311, A312, A313, A350, A351, A352, A500, A501

STRUCTURALS DATED:

SPECIFICATIONS DATED: 10/31/2019  
084113, 084413, 087100, 088000

ADDENDUMS:  
01, DATED 11/18/2019  
02, DATED 11/26/2019  
03, DATED 12/04/2019

**SHEET INDEX:**

100 INFORMATION SHEET  
101 DOOR SCHEDULE  
150-154 FLOOR PLANS  
200-208 ELEVATIONS  
300-305 DETAILS

**ABBREVIATIONS**

A/C=ACCESS CONTROLLED	F.W.=FRAME WIDTH	T.B.D.=TO BE DETERMINED
A.F.F.=ABOVE FINISHED FLOOR	G.C.=GENERAL CONTRACTOR	T.O.F.F.=TOP OF FINISHED FLOOR
B.O.H.=BOTTOM OF HORIZ.	M.L.=MULLION LENGTH	T.O.H.=TOP OF HORIZONTAL
C.I.=CENTER LINE	N.B.P.G.A.=NOT BY P.G.A.	T.O.S.=TOP OF SLAB
DIM.=DIMENSION	N.I.C.=NOT IN CONTRACT	T.O.STL.=TOP OF STEEL
D.L.=DEAD LOAD (ANCHOR)	N.T.S.=NOT TO SCALE	T.Y.P.=TYPICAL
D.L.O.=DAYLIGHT OPENING	O.F.D.=OVERALL FRAME DIM.	V.I.F.=VERIFY IN FIELD
D.O.=DOOR OPENING	O.P.P.=OPPOSITE	W.D.=WINDOW DIMENSION
F.F.=FINISHED FLOOR	R.E.F.=REFERENCE	W.L.=WIND LOAD (ANCHOR)
F.H.=FRAME HEIGHT	R.O.=ROUGH OPENING	W.P.=WORKING POINT
F.O.D.=FINISHED OPENING DIM.	S.Y.M.=SYMMETRICAL	

NO	DESCRIPTION	DATE
1	1st SUBMISSION	05/21/20
2	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
3		
4		
5		
6		
7		
8		
9		
10		

DRAWING SUBMISSION

## STAMP AREA:

Spawglass: Performance Glass has confirmed that their Engineer has reviewed these drawings. Signed and Sealed Calculations to be provided following architectural review

# DOOR SCHEDULE

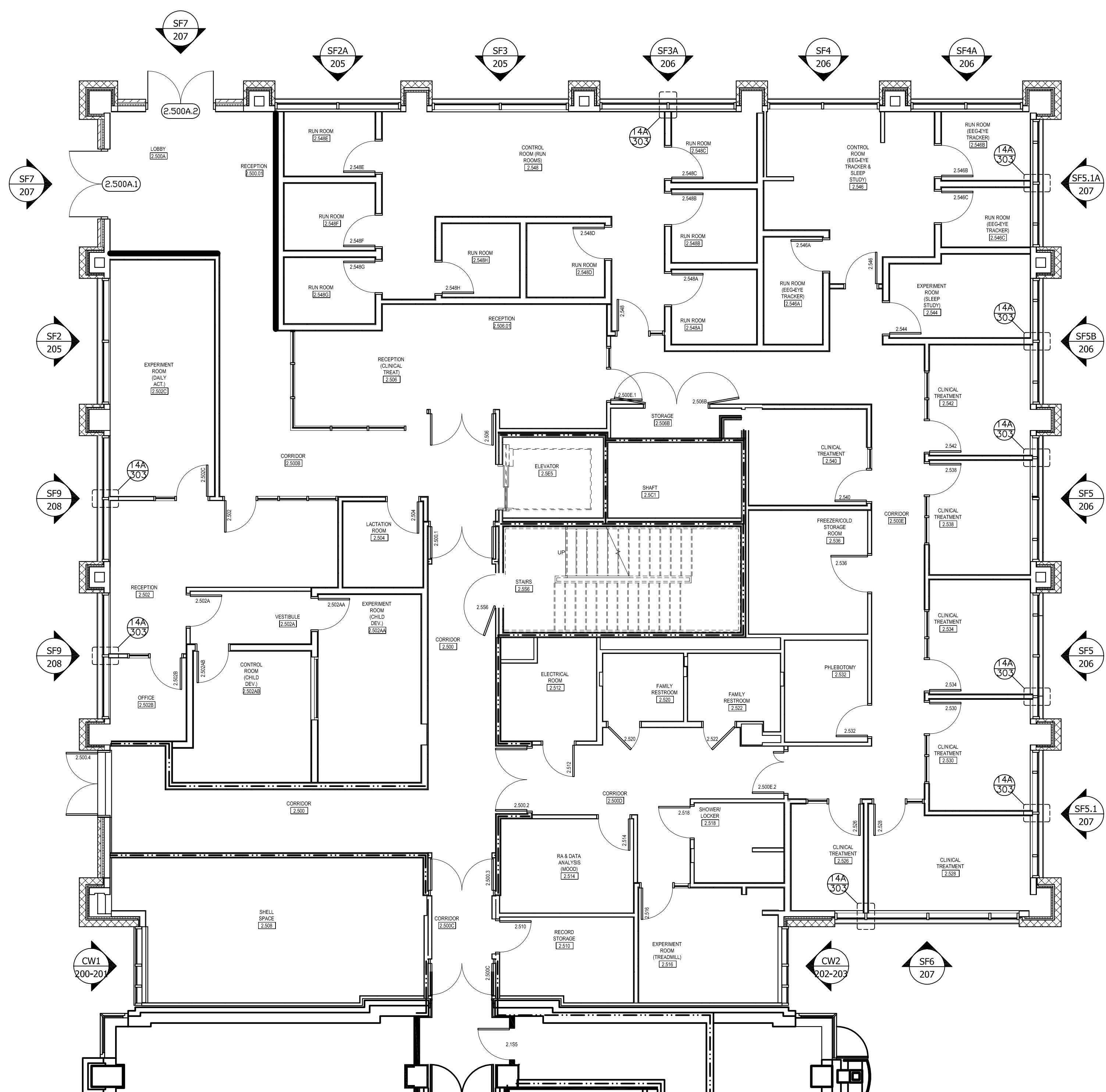
DOOR MARK 2.500A.1; HARDWARE SET PR-AC714AC  
KAWNEER 500 STANDARD; WIDE STILE; 10" BOTTOM RAIL  
6' 3" X 7' 5-3/8" X 1-3/4"; PAIR; SWING OUT (VIEWED FROM EXTERIOR)

DOOR MARK 2.500A.2; HARDWARE SET PR-C714AC  
KAWNEER 500 STANDARD; WIDE STILE; 10" BOTTOM RAIL  
6' 3" X 7' 5-3/8" X 1-3/4"; PAIR; SWING OUT (VIEWED FROM EXTERIOR)

REFERENCE AND COORDINATE WITH SECTION  
087100 DOOR HARDWARE SUBMITTAL.

NO	DESCRIPTION	DATE
	1st SUBMISSION	05/21/20
	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
		
		
		
		
		

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN,_TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CUSTOMER:	SPAWGLASS		
TITLE:	DOOR_SCHEDULE		
DRAWN BY:	DATE: D.R. 05/21/20		
CHECKED BY:	DATE: L.G. 05/21/20		
JOB NO.:	PGA_2020-085		
SHEET NO.:	101		



LEVEL 2 ENDOR PLAN SNOT TO SCALE

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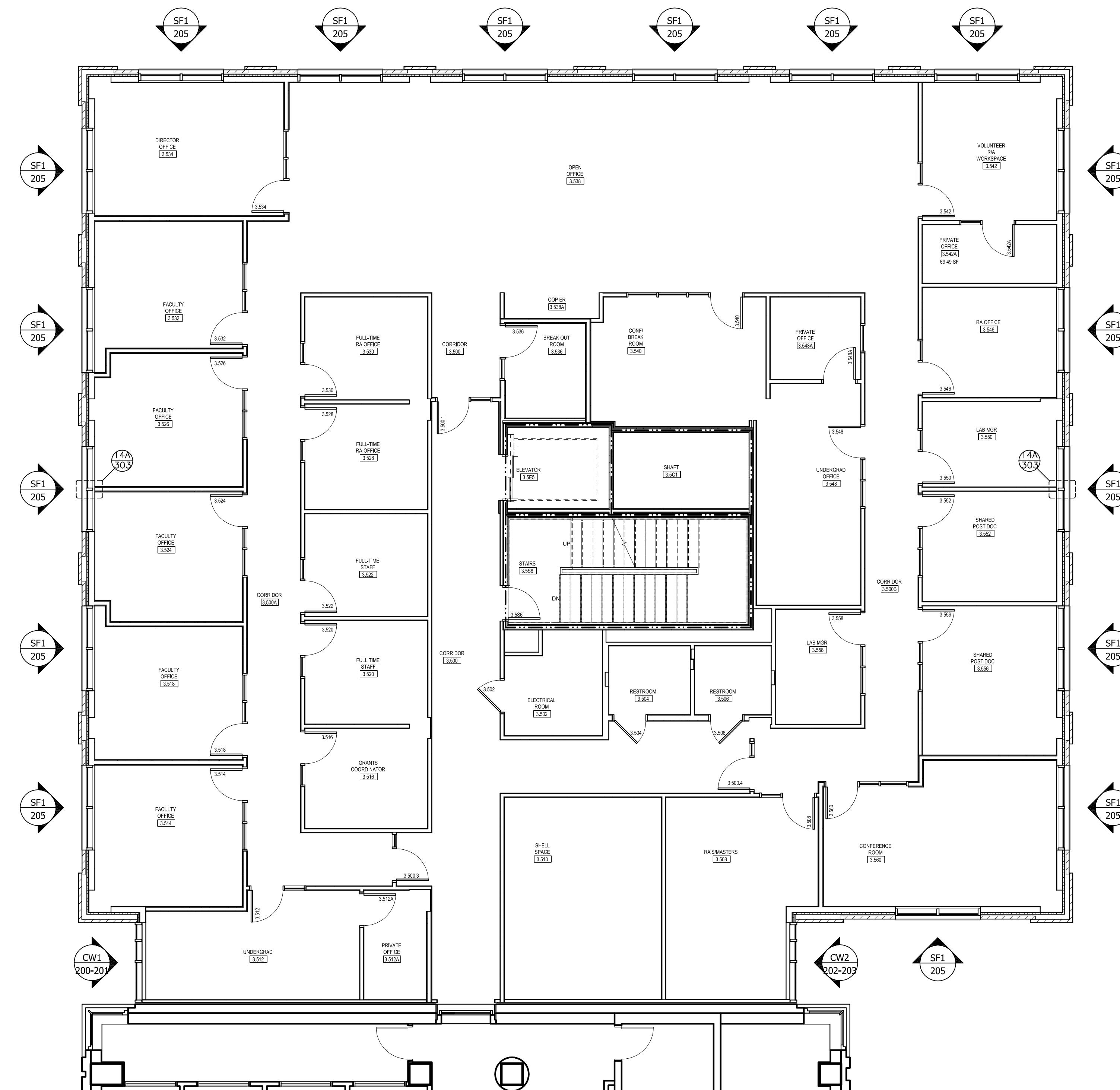
ARCH REFERENCE 1/A11

NO	DESCRIPTION	DATE
	1st SUBMISSION	05/21/20
	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
		
		
		
		



EL PASO, TEXAS 111111 ROJAS  
EL PASO, TX 79935  
p 915.592.5583  
AUSTIN, TEXAS 501 W POWELL, STE 211  
AUSTIN, TX 78753  
p 512.632.4656

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
DRAWN BY:	D.R.	DATE:	05/21/20
CHECKED BY:	L.G.	DATE:	05/21/20
JOB NO.:	PGA_2020-085		
SHEET NO.:	150		

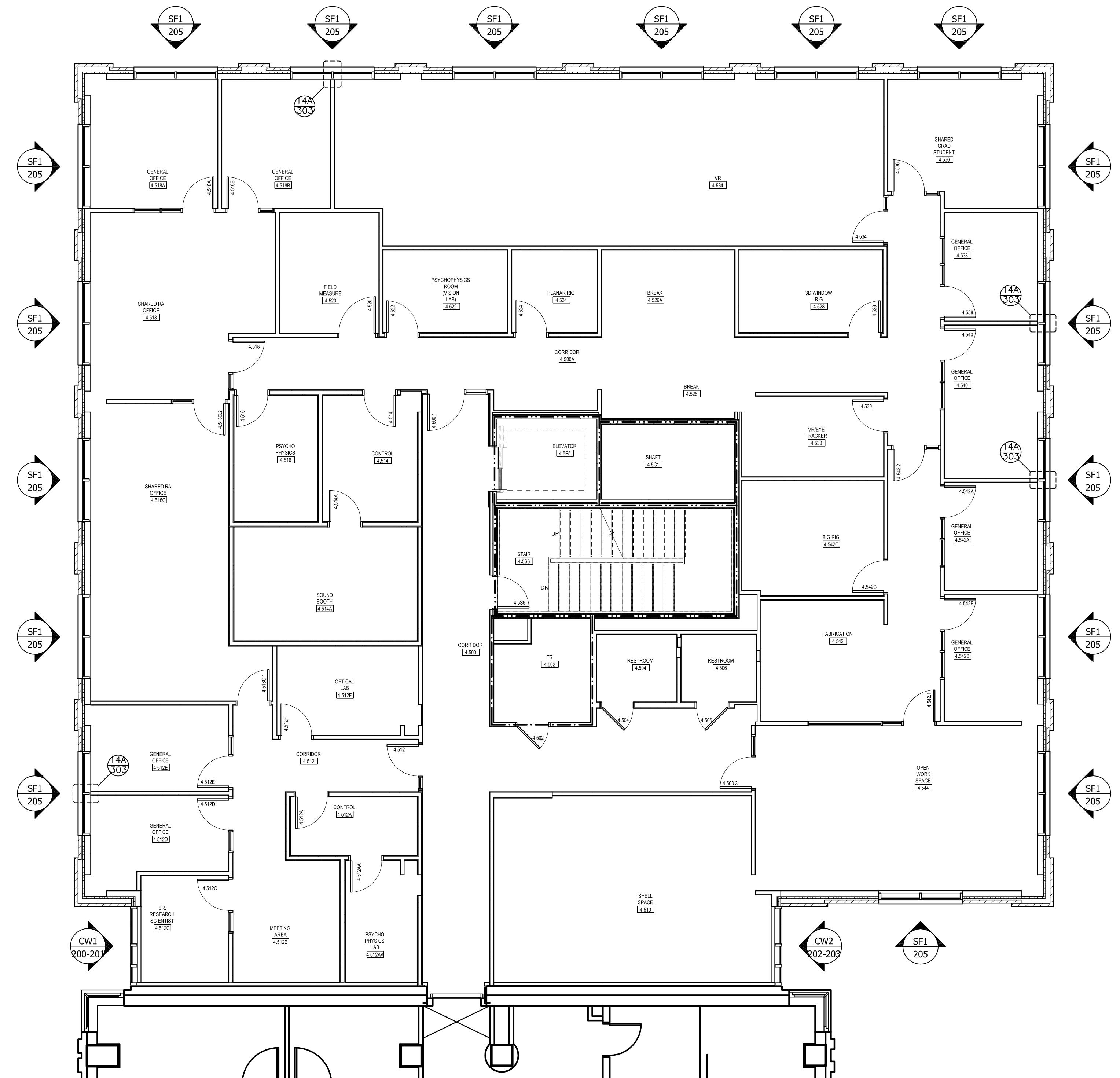


**PERFORMANCE**  
*Glass & Aluminum Inc.*

EL PASO, TEXAS 11111 ROJAS AUSTIN, TEXAS 501 W POWELL, STE 211  
EL PASO, TX 79935 AUSTIN, TX 78733  
p 915.592.5583 p 512.632.4656

NO.	DESCRIPTION	DATE
1	1st SUBMISSION	05/21/20
2	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
3		
4	DRAWING SUBMISSION	

PROJECT:	UT_AUSTIN -- SEAY BUILDING ADDITION
LOCATION:	AUSTIN, TEXAS
ARCHITECT:	BSA_LIFE_STRUCTURES
CONTRACTOR:	SPAWNGLASS
CUSTOMER:	N/A
TITLE:	FLOOR PLANS
DRAWN BY:	D.R.
DATE:	05/21/20
CHECKED BY:	L.G.
DATE:	05/21/20
JOB NO.:	PGA_2020-085
SHEET NO.:	151



LEVEL 4 ENDOR PLAN SNOT TO SCALE

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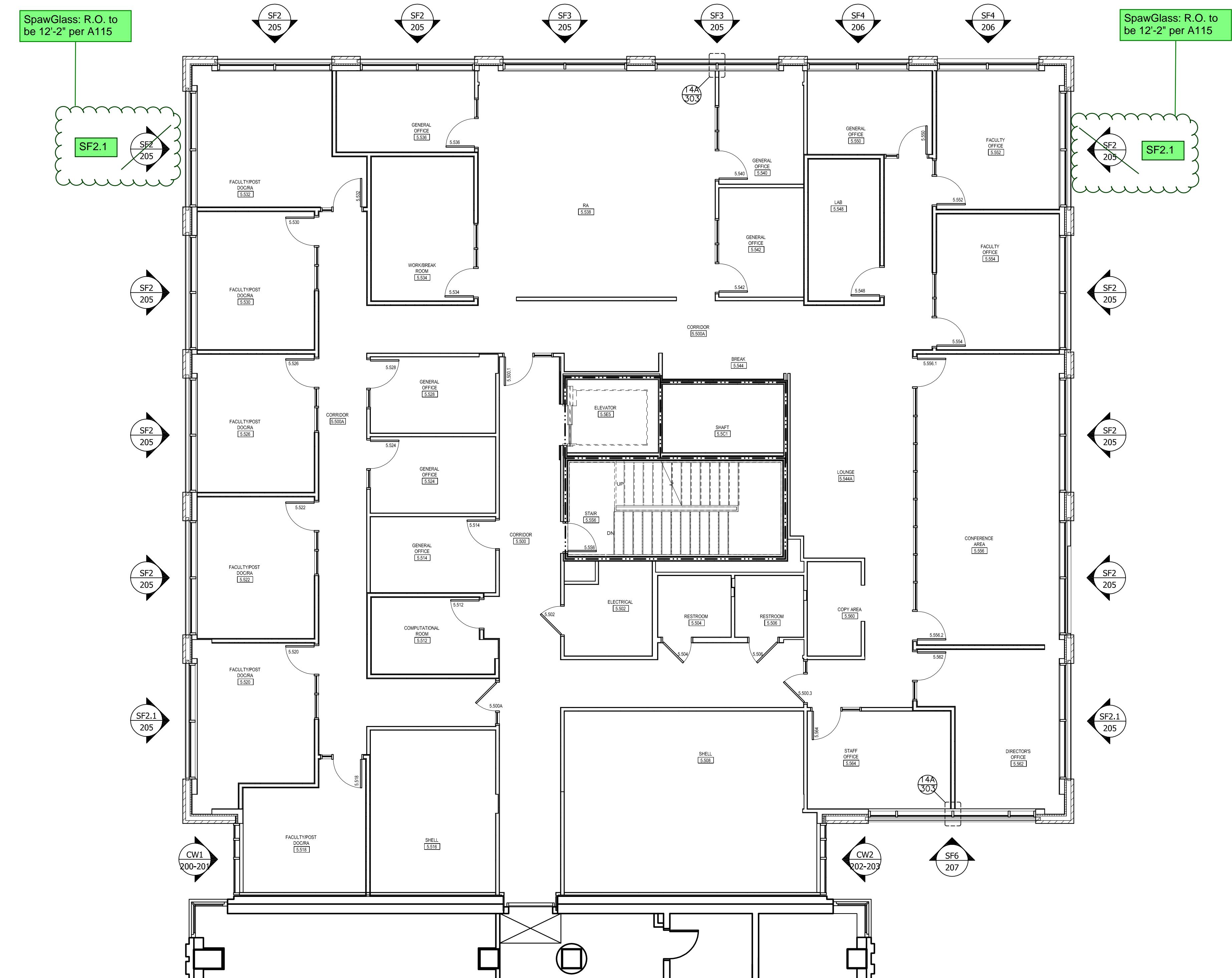
ARCH. REFERENCE 1/A114

NO	DESCRIPTION	DATE
△	1st SUBMISSION	05/21/20
△	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
△		
△		
△		
△		
	DRAWING SUBMISSION	



EL PASO, TEXAS 111111 ROJAS  
EL PASO, TX 79935  
p 915.592.5583  
AUSTIN, TEXAS 501 W POWELL, STE 211  
AUSTIN, TX 78753  
p 512.632.4656

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAWGLASS		
CUSTOMER:	N/A		
TITLE:	FLOOR_PLANS		
DRAWN BY:	D.R.		DATE: 05/21/20
CHECKED BY:	L.G.		DATE: 05/21/20
JOB NO.:	PGA_2020-085		
SHEET NO.:	152		



LEVEL 5 ENDOR PLAN SNOT TO SCALE

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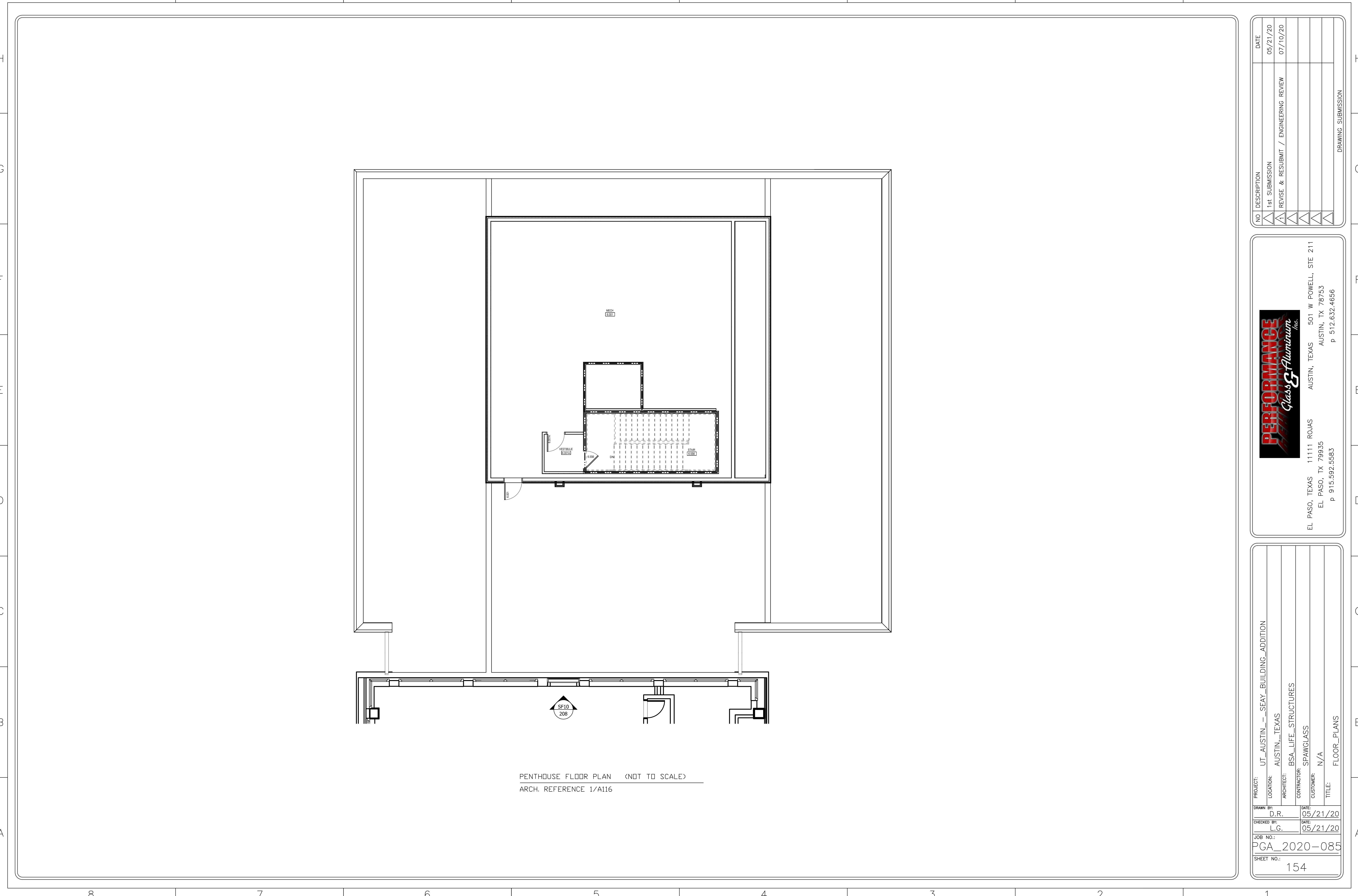
ARCH REFERENCE 1/A11

NO	DESCRIPTION	DATE
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	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
		
		
		
		
		DRAWING SUBMISSION

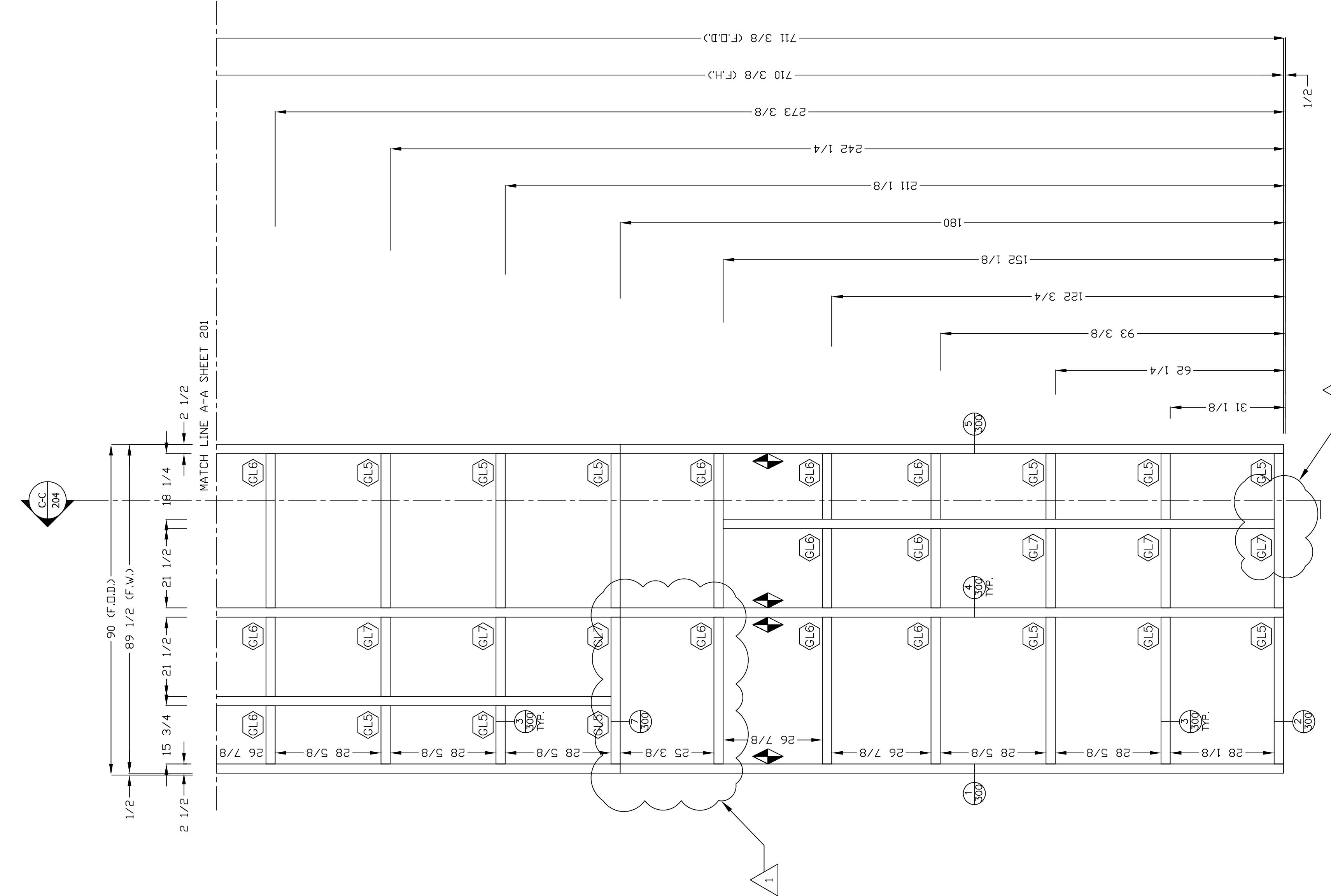


EL PASO, TEXAS 11111 ROJAS  
EL PASO, TX 79935  
p 915.592.5583  
AUSTIN, TEXAS 501 W POWELL, STE 211  
AUSTIN, TX 78753  
p 512.632.4656

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAW/GLASS		
CUSTOMER:	N/A		
TITLE:	FLOOR_PLANS		
DRAWN BY:	D.R.		DATE: 05/21/20
CHECKED BY:	L.G.		DATE: 05/21/20
JOB NO.:	PGA_2020-085		
SHEET NO.:	153		



NOTE TO ARCHITECT, G.C.:  
OPENING DIMENSIONS TO BE  
VERIFIED IN FIELD BY PG  
PRIOR FRAME FABRICATION



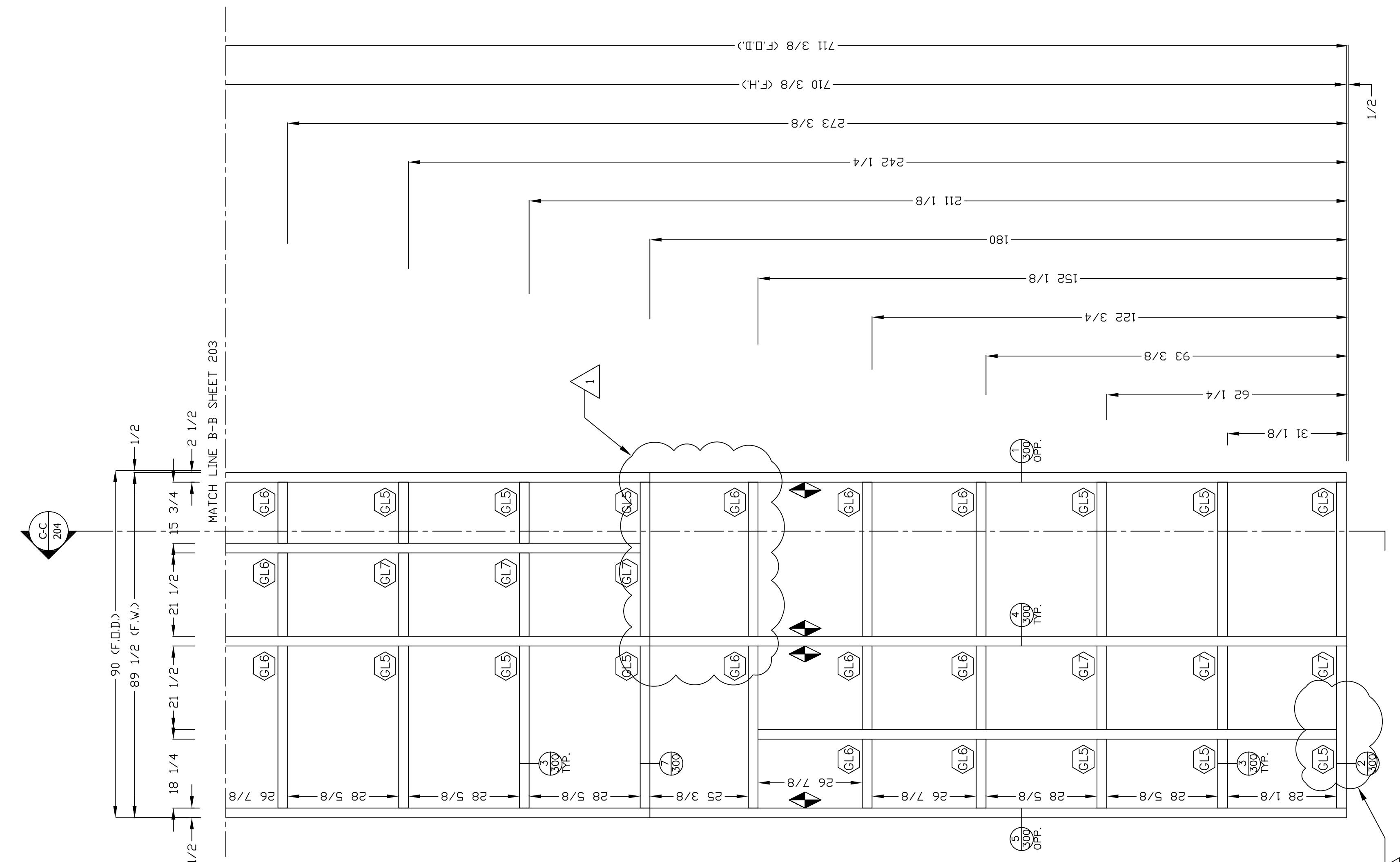
KAWNEER 1600 SYSTEM 1 CURTAIN WALL <2 1/2" X 7 1/2">  
ARCH. REFERENCE 10/A200

NO	DESCRIPTION	DATE
	1st SUBMISSION	05/21/20
	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
		
		
		
		
		
		DRAWING SUBMISSION

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN,_TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAW/GLASS		
CUSTOMER:	N/A		
TITLE:	ELEVATIONS		
DRAWN BY:	D.R.		DATE: 05/21/20
CHECKED BY:	L.G.		DATE: 05/21/20
JOB NO.:	PGA_2020-085		
SHEET NO.:	200		



NOTE TO ARCHITECT, G.C.:  
OPENING DIMENSIONS TO BE  
VERIFIED IN FIELD BY PGA  
PRIOR FRAME FABRICATION.



CW2 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNNEER 1600 SYSTEM 1 CURTAIN WALL <2 1/2" X 7 1/2" >  
ARCH. REFERENCE 10/A200

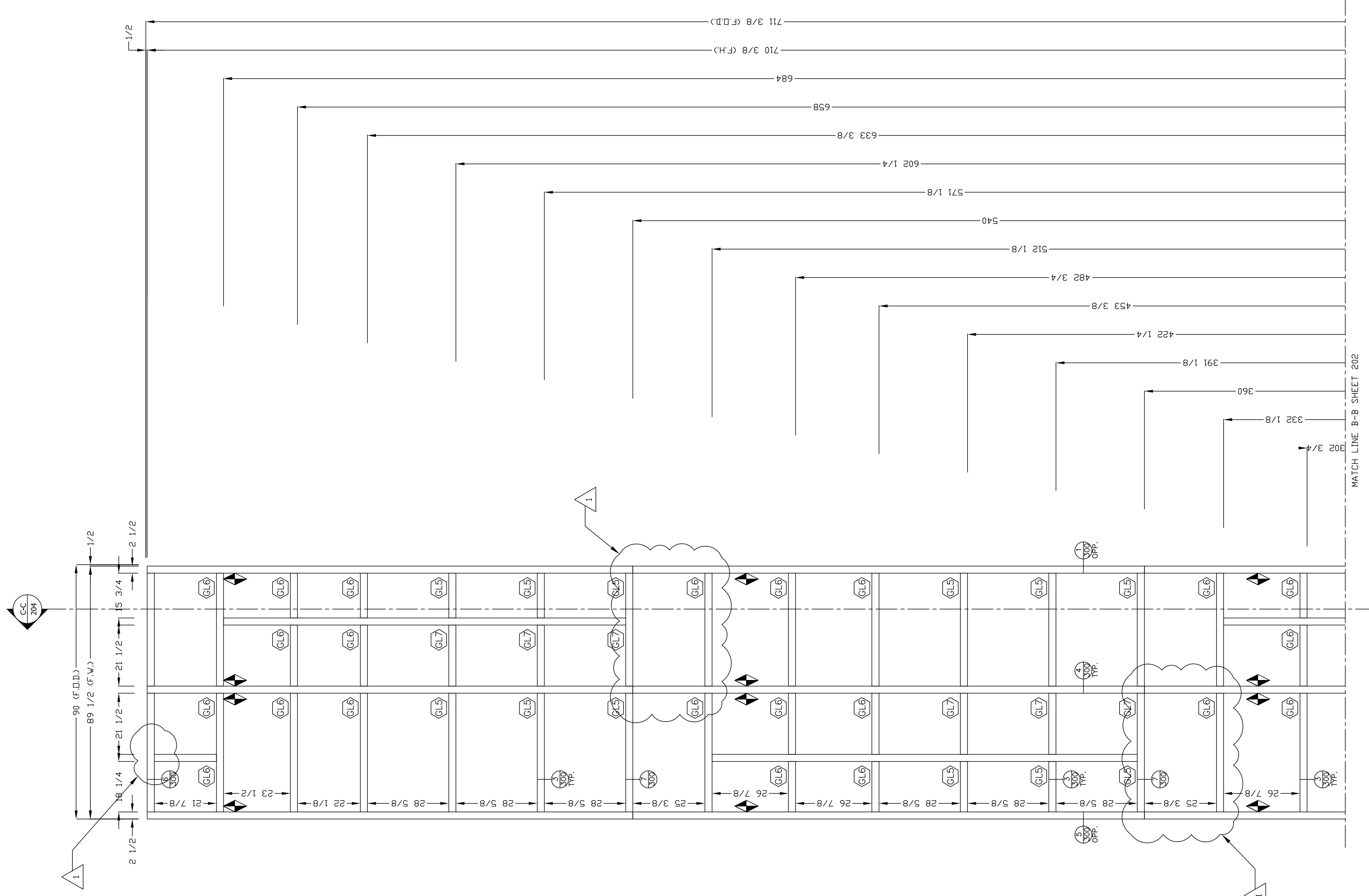
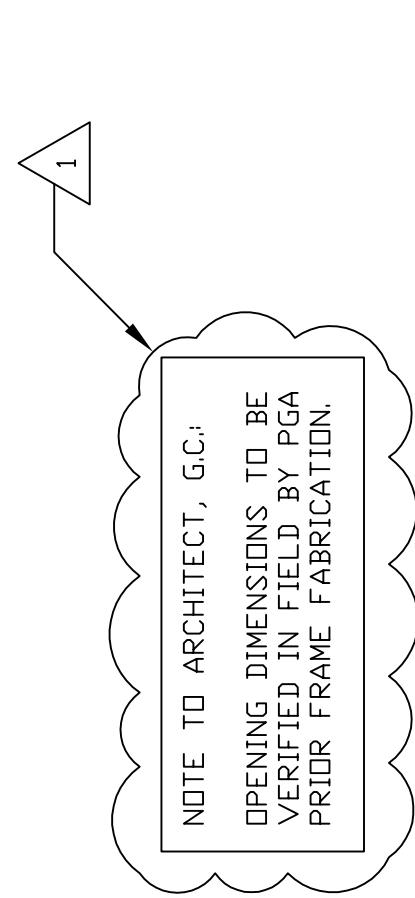
NO	DESCRIPTION	DATE
	1st SUBMISSION	05/21/20
1	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20

DRAWING SUBMISSION



EL PASO, TEXAS 11111 ROJAS  
EL PASO, TX 79935  
p 915.592.5583  
AUSTIN, TEXAS  
AUSTIN, TX 78753  
p 512.632.4656  
501 W POWELL, STE 211  
AUSTIN, TX 78753

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
DRAWN BY:	CONTRACTOR: SPAWGLASS		
CHECKED BY:	CUSTOMER: N/A		
JOB NO.:	TITLE: ELEVATIONS		
SHEET NO.:	202		



UT\_AUSTIN -- SEAY BUILDING ADDITION  
AUSTIN, TEXAS  
BSA\_LIFE\_STRUCTURES  
SPAWNGLASS  
N/A

PROJECT:	UT_AUSTIN -- SEAY BUILDING ADDITION
DRAWN BY:	D.R.
LOCATION:	AUSTIN, TEXAS
ARCHITECT:	BSA_LIFE_STRUCTURES
CONTRACTOR:	SPAWNGLASS
CUSTOMER:	N/A
TITLE:	ELEVATIONS
DATE:	05/21/20
DRAWN BY:	L.G.
CHECKED BY:	L.G.
DATE:	05/21/20
JOB NO.:	PGA_2020-085
SHEET NO.:	203

**PERFORMANCE**  
*Glass & Aluminum Inc.*

EL PASO, TX 11111 ROJAS AUSTIN, TEXAS 501 W POWELL, STE 211  
EL PASO, TX 79935 AUSTIN, TX 78753  
p 915.592.5583 p 512.632.4656

DRAWING SUBMISSION

NO	DESCRIPTION	DATE
△	1st SUBMISSION	05/21/20
△	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
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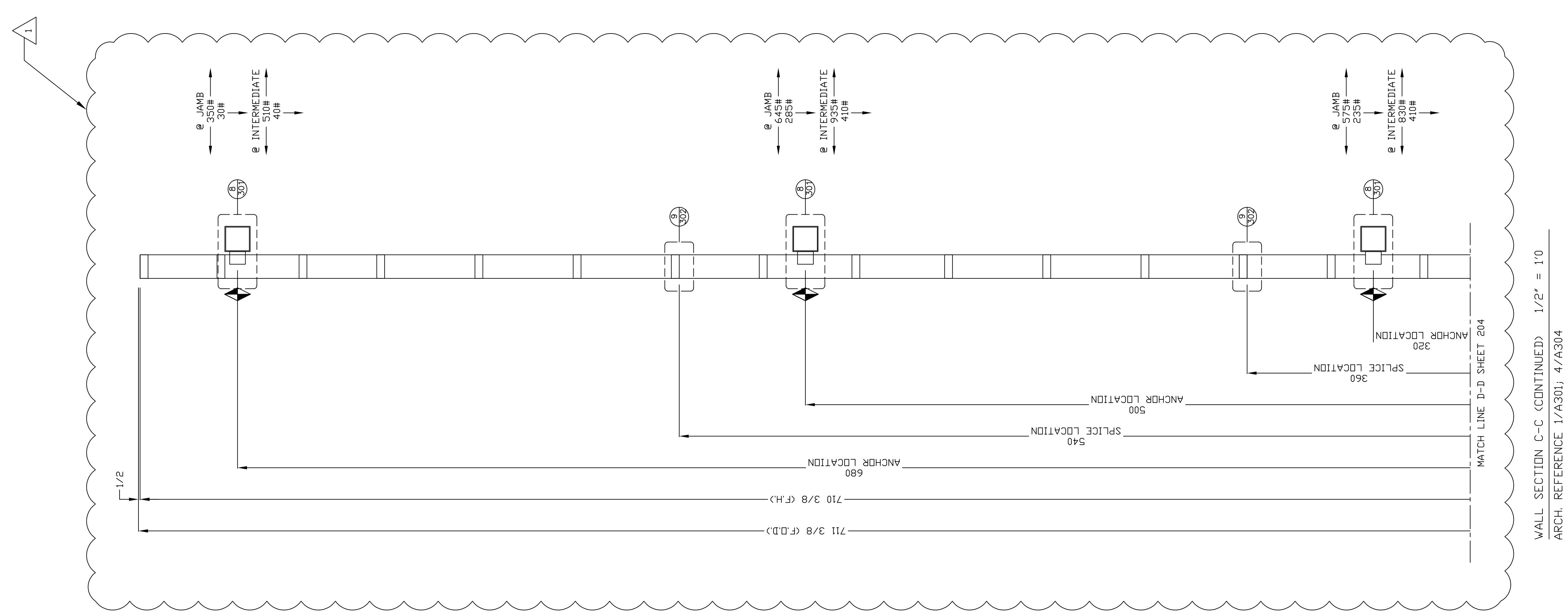
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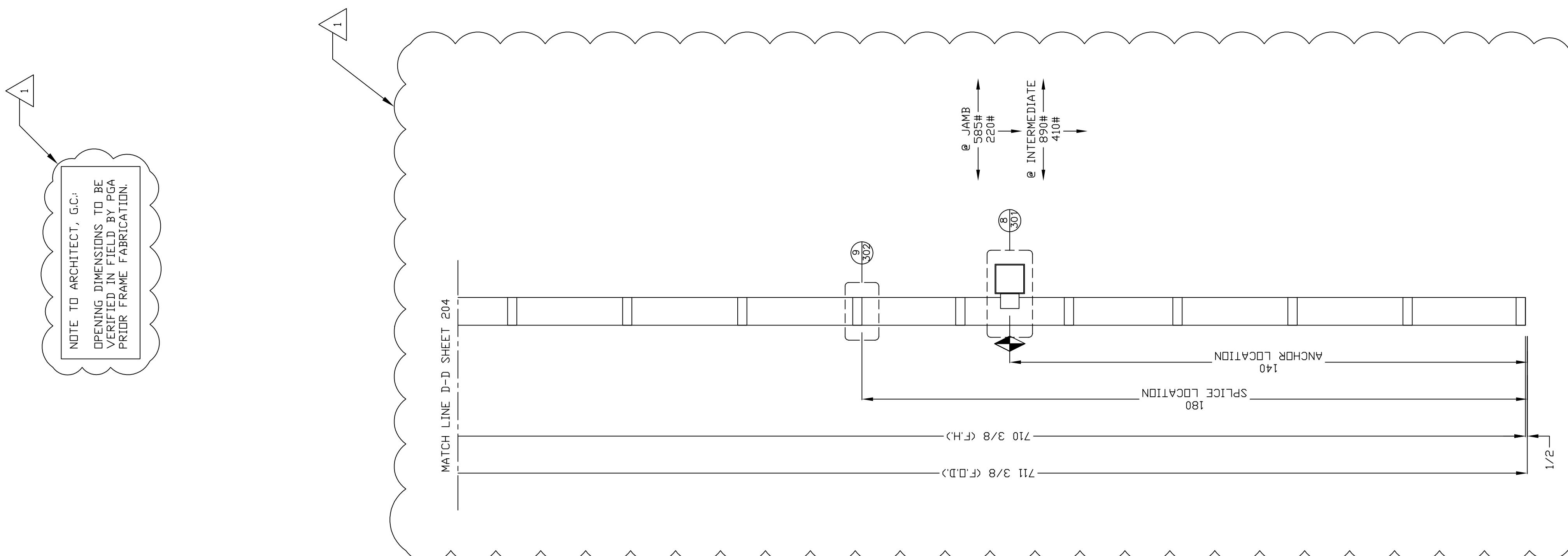
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NOTE TO ARCHITECT, G.C.:  
OPENING DIMENSIONS TO BE  
VERIFIED IN FIELD BY PGA  
PRIOR FRAME FABRICATION.



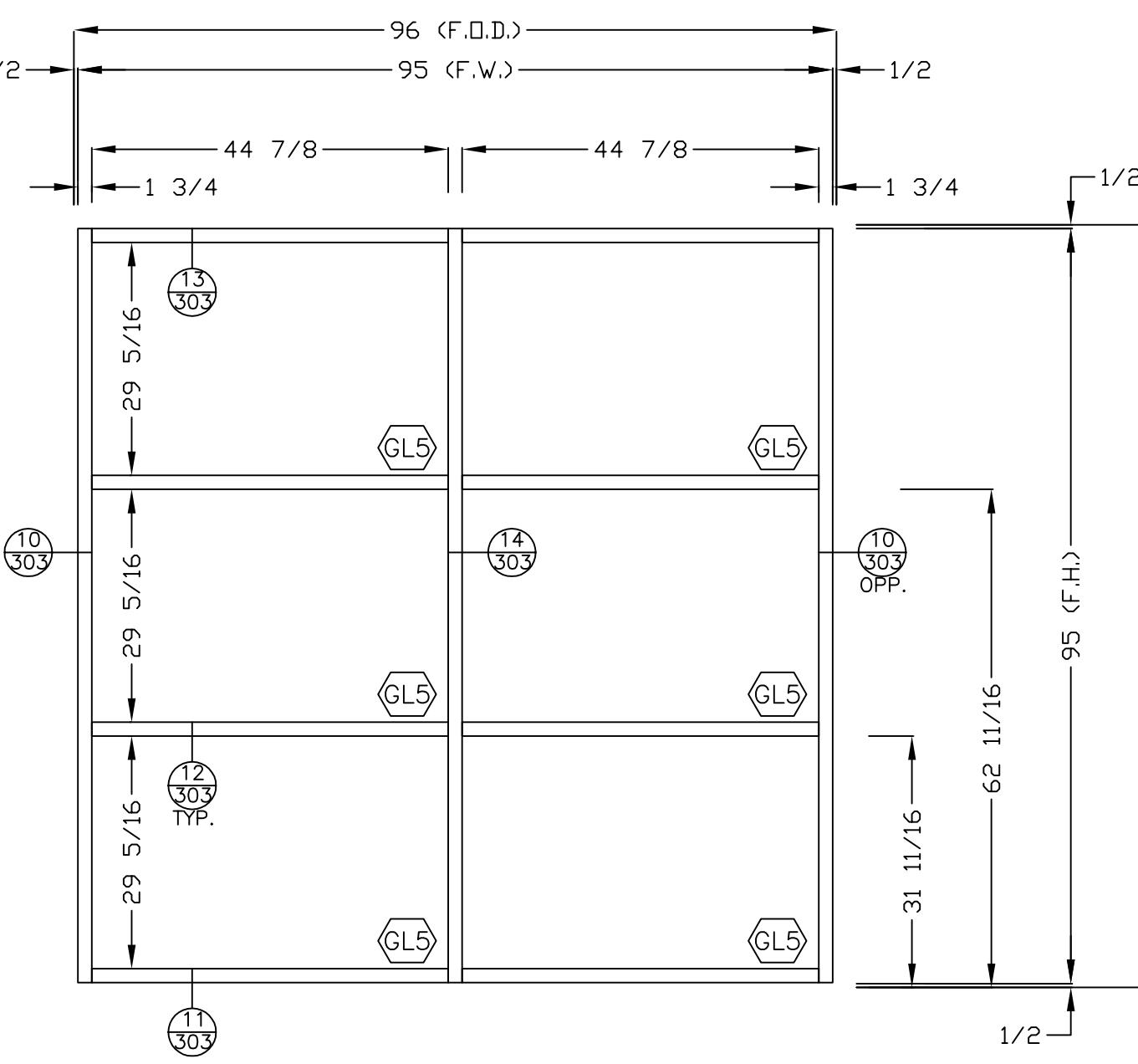
ALL SECTION C-C 1/2" = 1'0  
RCH. REFERENCE 1/A301; 4/A304



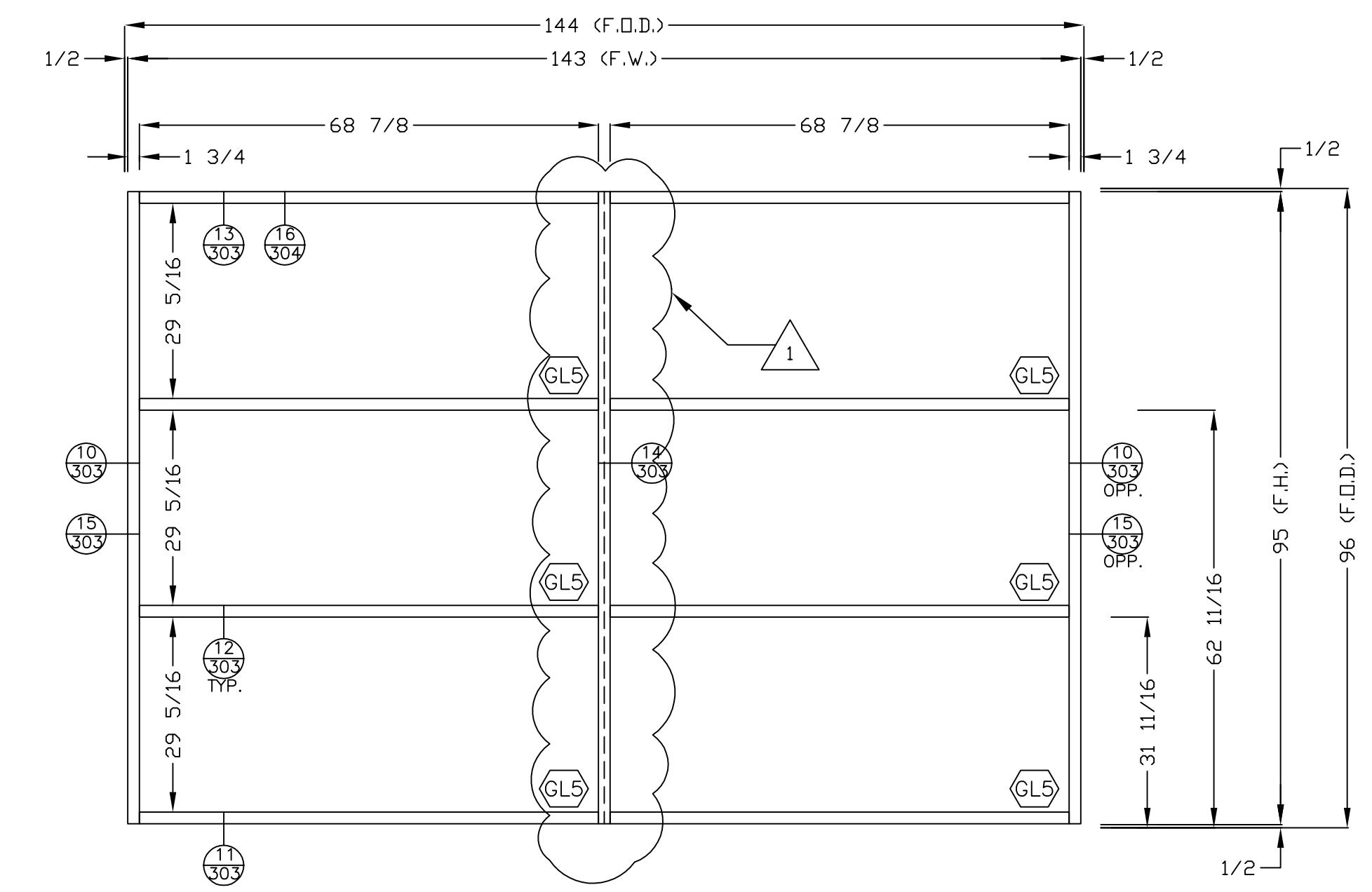
EL PASO, TEXAS 11111 ROJAS AUSTIN, TEXAS 501 W POWELL, STE 211  
EL PASO, TX 79935 AUSTIN, TX 78753  
p 915.592.5583 p 512.632.4656

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
DRAWN BY:	CONTRACTOR: SPAWGLASS		
D.R.		DATE: 05/21/20	
CHECKED BY:	DATE: 05/21/20		
L.G.			
JOB NO.:	PGA_2020-085		
SHEET NO.:	204		

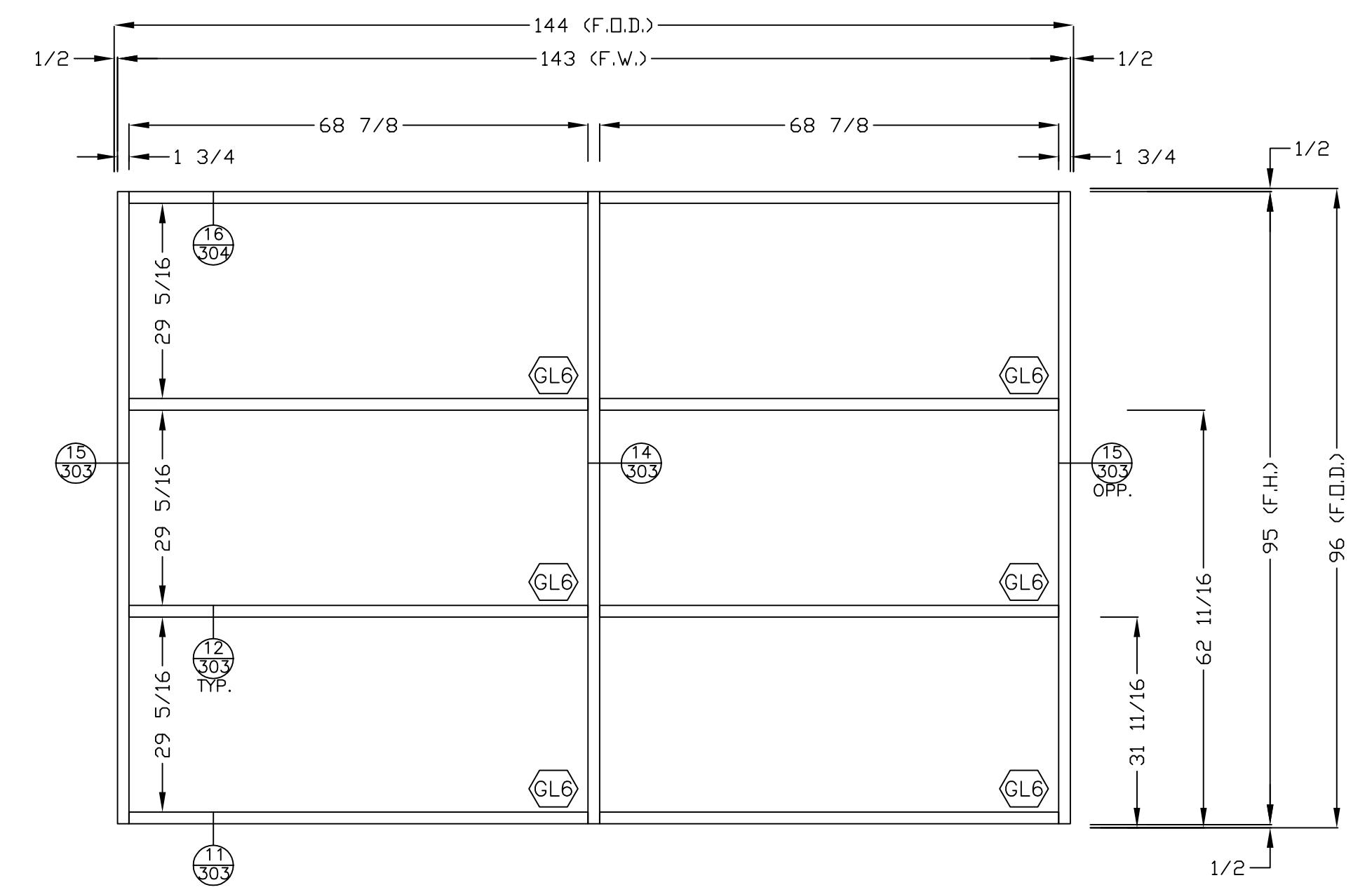
8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



SF1 1/2" = 1'0 QTY. REQD=34--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

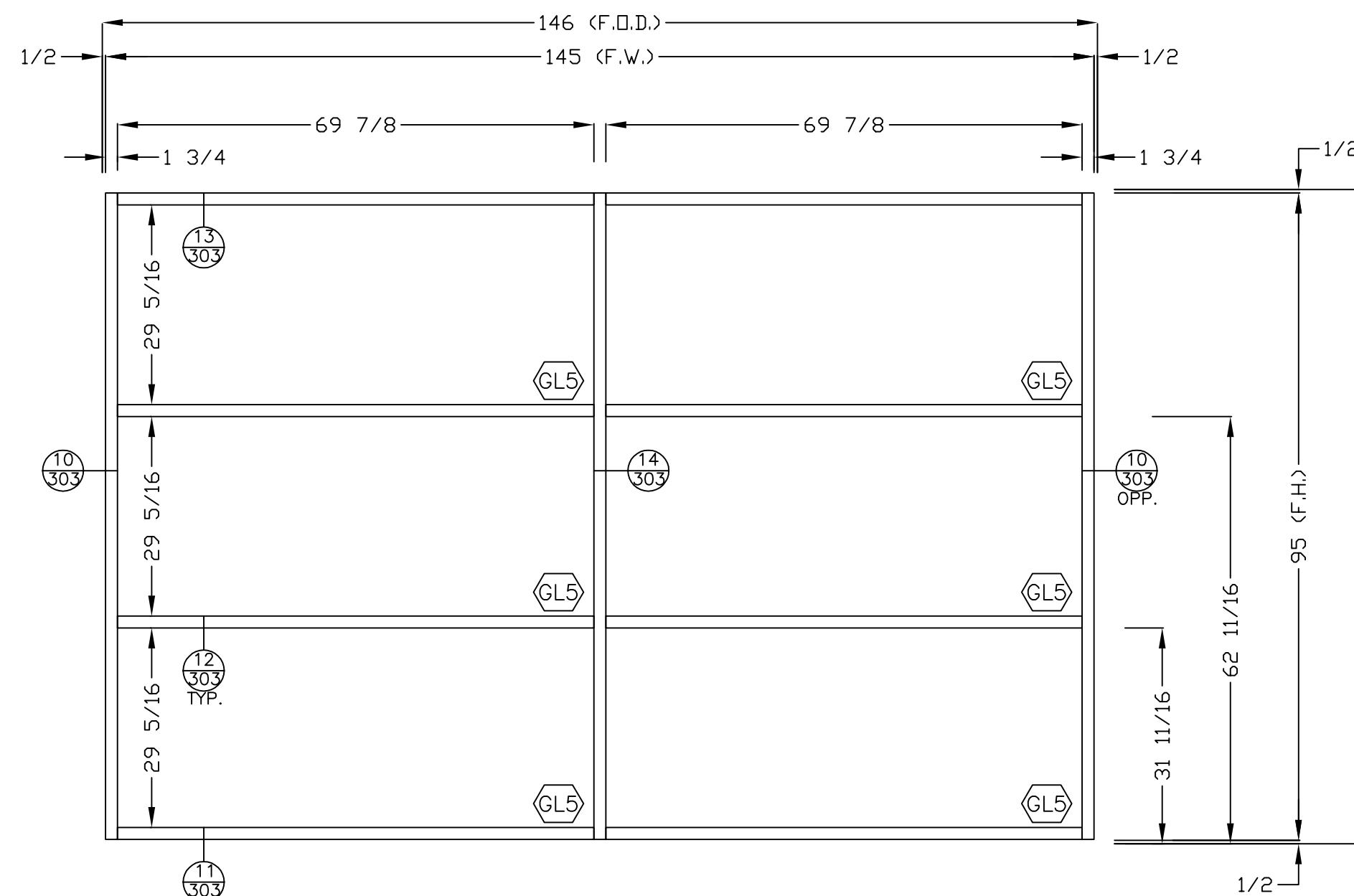


SF2 1/2" = 1'0 QTY. REQD=11--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

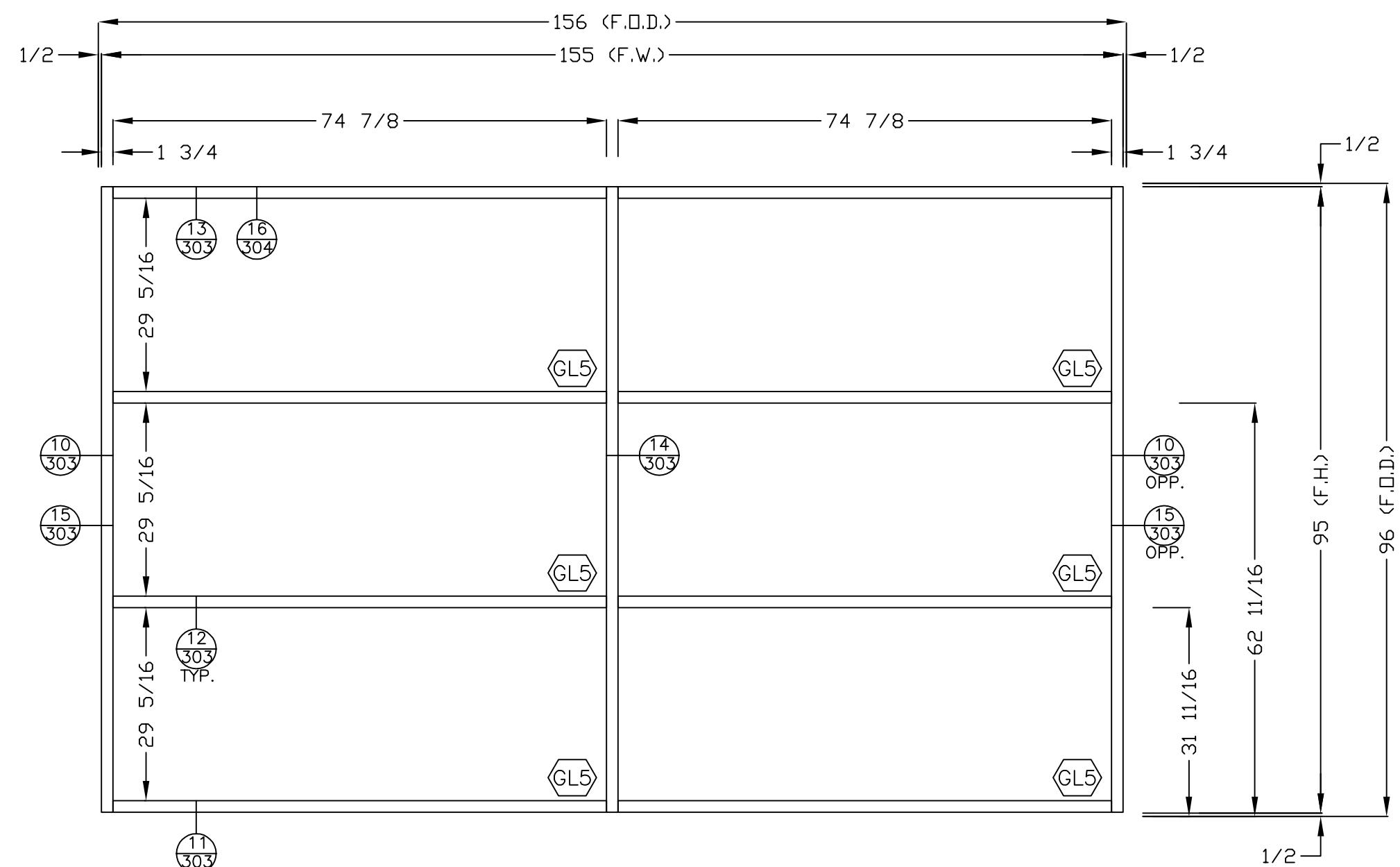


SF2A 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

NOTE TO ARCHITECT, G.C.:  
OPENING DIMENSIONS TO BE  
VERIFIED IN FIELD BY PGA  
PRIOR FRAME FABRICATION.



SF2.1 1/2" = 1'0 QTY. REQD=2--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200



SF3 1/2" = 1'0 QTY. REQD=3--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

NO.	DESCRIPTION	DATE
<input type="checkbox"/>	1st SUBMISSION	05/21/20
<input type="checkbox"/>	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
<input type="checkbox"/>		
DRAWING SUBMISSION		

PROJECT:	UT_AUSTIN -- SEAY BUILDING ADDITION
LOCATION:	AUSTIN, TEXAS
ARCHITECT:	BSA_LIFE_STRUCTURES
CONTRACTOR:	SPAWNGLASS
CUSTOMER:	N/A
TITLE:	ELEVATIONS
DRAWN BY:	D.R.
DATE:	05/21/20
CHECKED BY:	L.G.
DATE:	05/21/20
JOB NO.:	PGA_2020-085
SHEET NO.:	205

**PERFORMANCE**  
Glass & Aluminum Inc.

AUSTIN, TEXAS 501 W POWELL, STE 211  
EL PASO, TX 79935 p 915.592.5583

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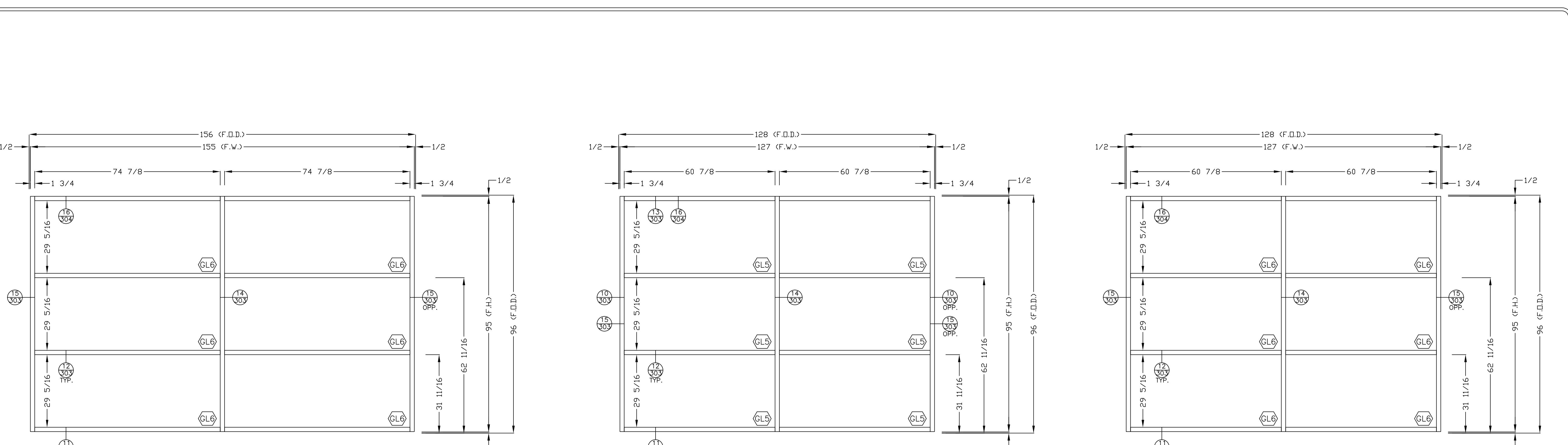
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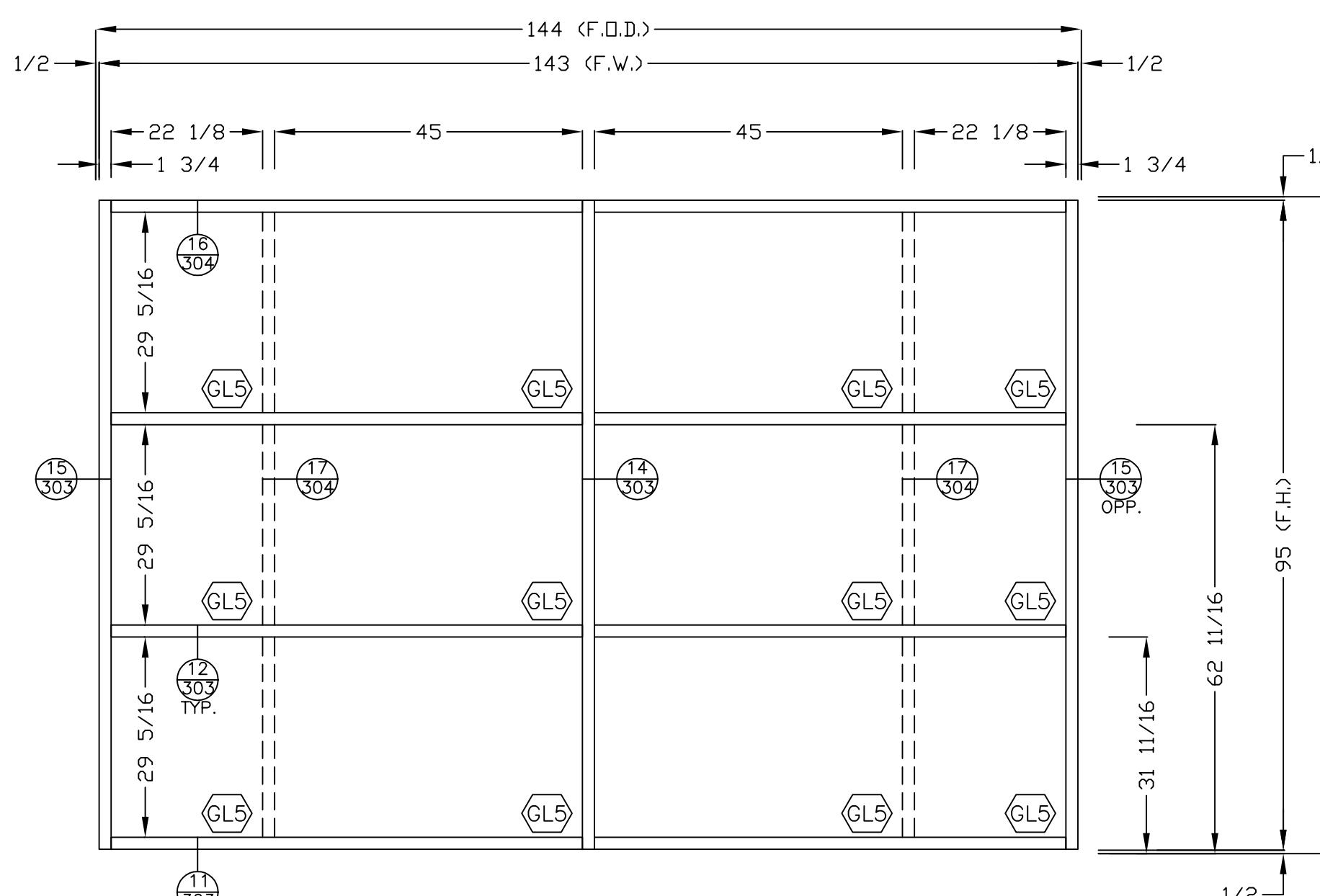
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SF3A 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

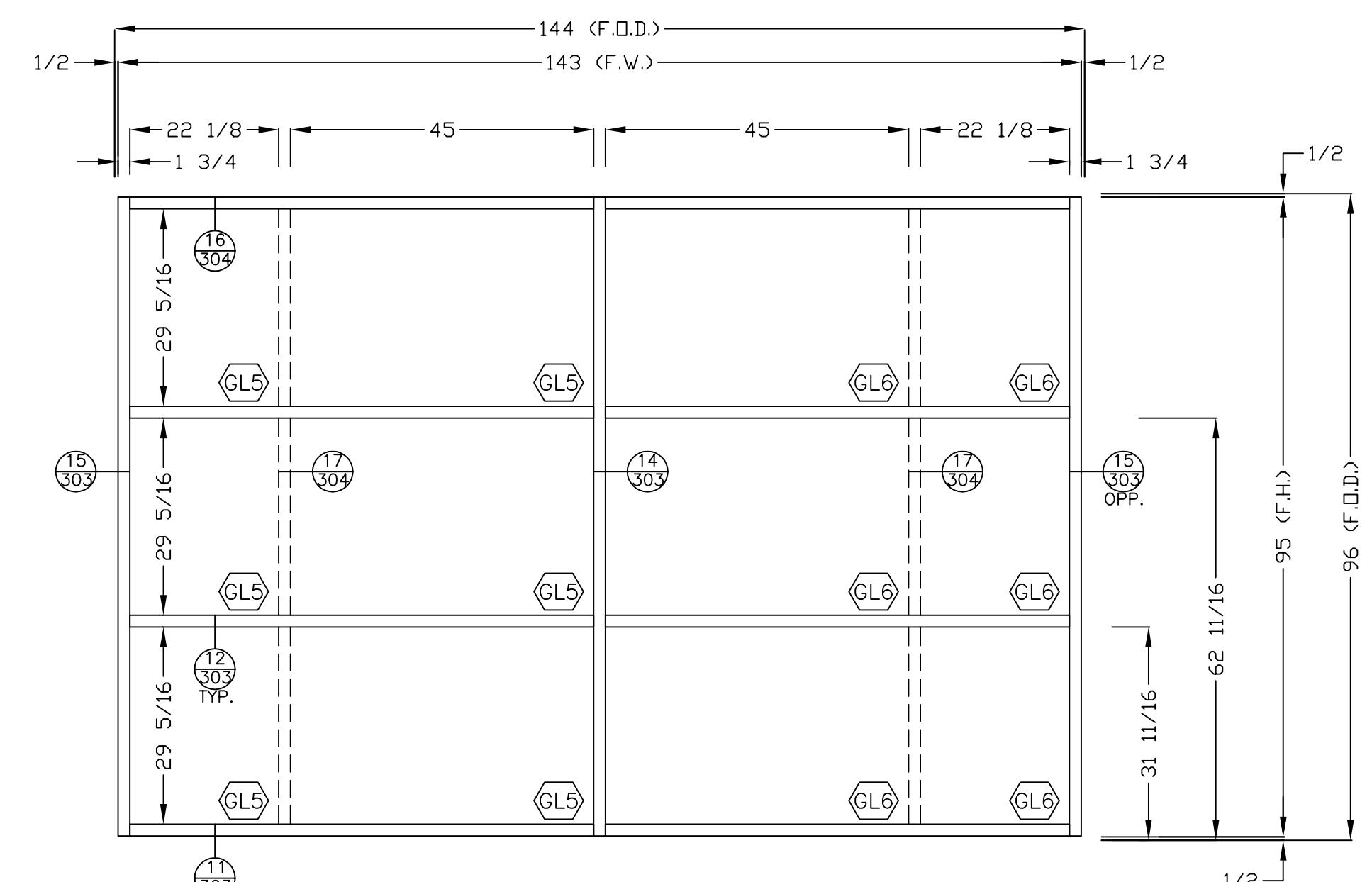
SF4 1/2" = 1'0 QTY. REQD=3--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

SF4A 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200



SF5 1/2" = 1'0 QTY. REQD=2--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

NOTE TO ARCHITECT, G.C.  
OPENING DIMENSIONS TO BE  
VERIFIED IN FIELD BY PGA  
PRIOR FRAME FABRICATION.

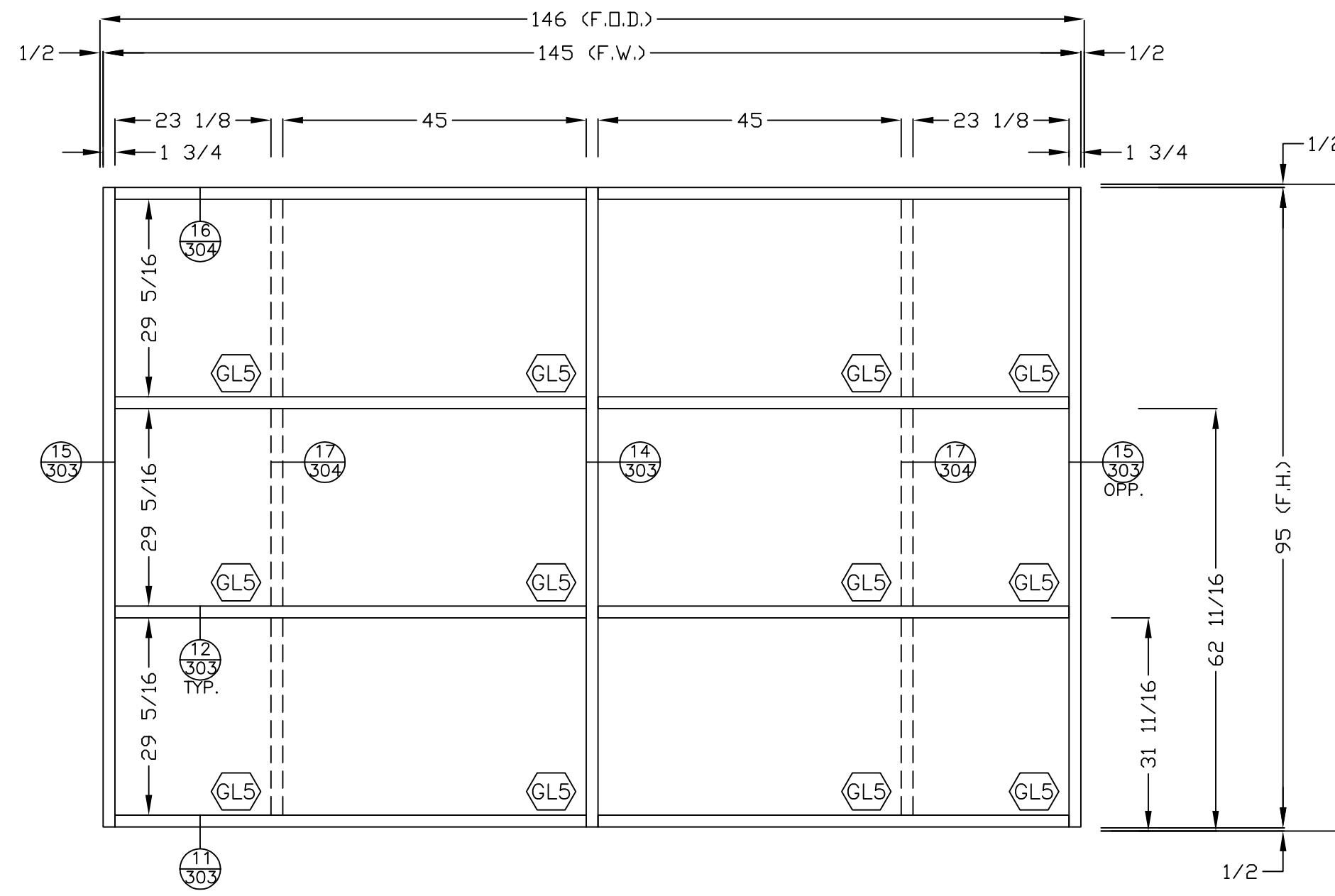


SF5B 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

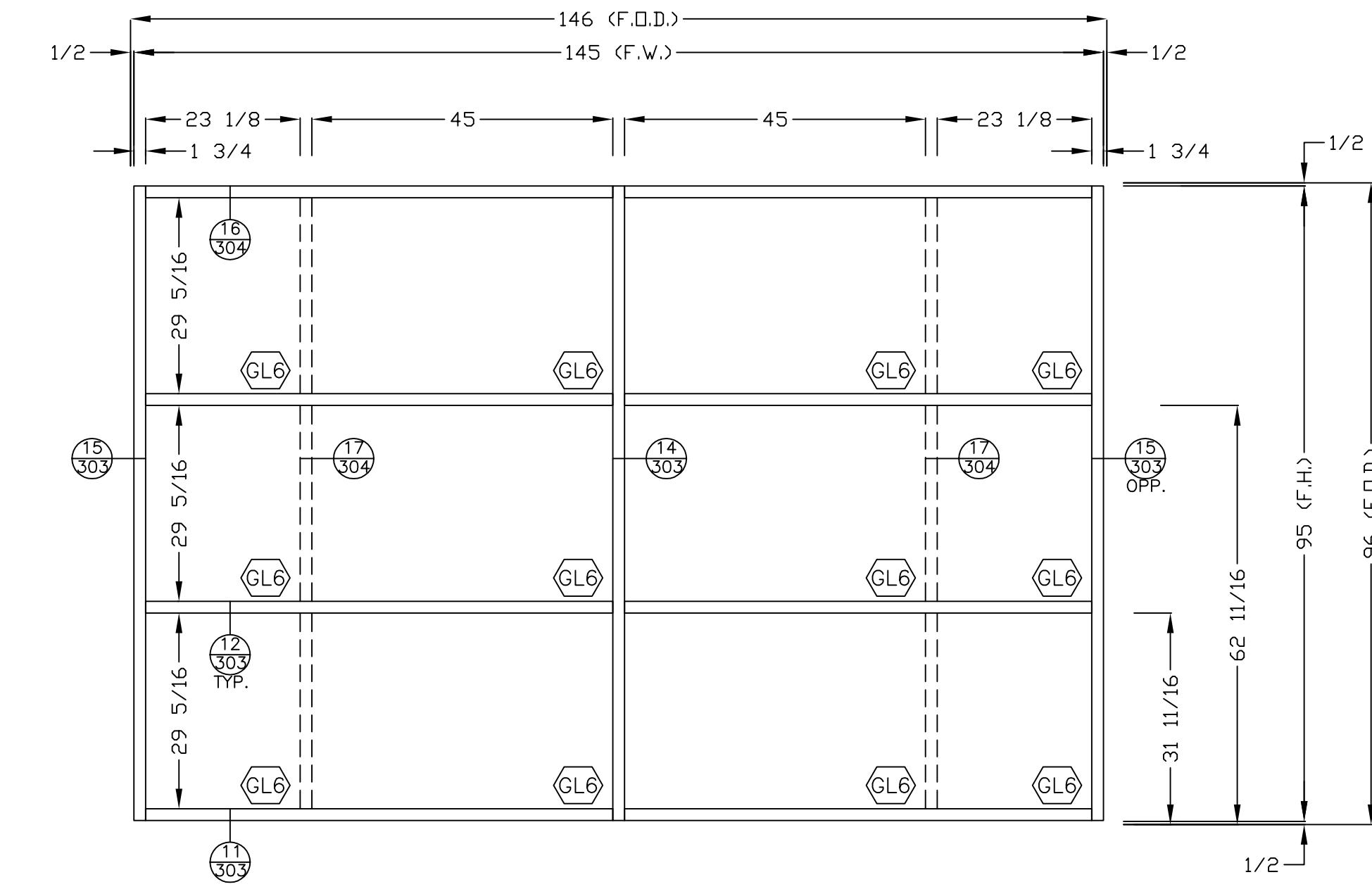
NO.	DESCRIPTION	DATE
<input type="checkbox"/>	1st SUBMISSION	05/21/20
<input type="checkbox"/>	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
<input type="checkbox"/>		
DRAWING SUBMISSION		

PERFORMANCE	Glass & Aluminum Inc.		
EL PASO, TEXAS	11111 ROJAS	AUSTIN, TEXAS	501 W POWELL, STE 211
EL PASO, TX 79935	p 915.592.5583	AUSTIN, TX 78733	p 512.632.4656

PROJECT:	UT-AUSTIN -- SEAY BUILDING - ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAWNGLASS		
CUSTOMER:	N/A		
TITLE:	ELEVATIONS		
DRAWN BY:	D.R.	DATE:	05/21/20
CHECKED BY:	L.G.	DATE:	05/21/20
JOB NO.:	PGA_2020-085		
SHEET NO.:	206		

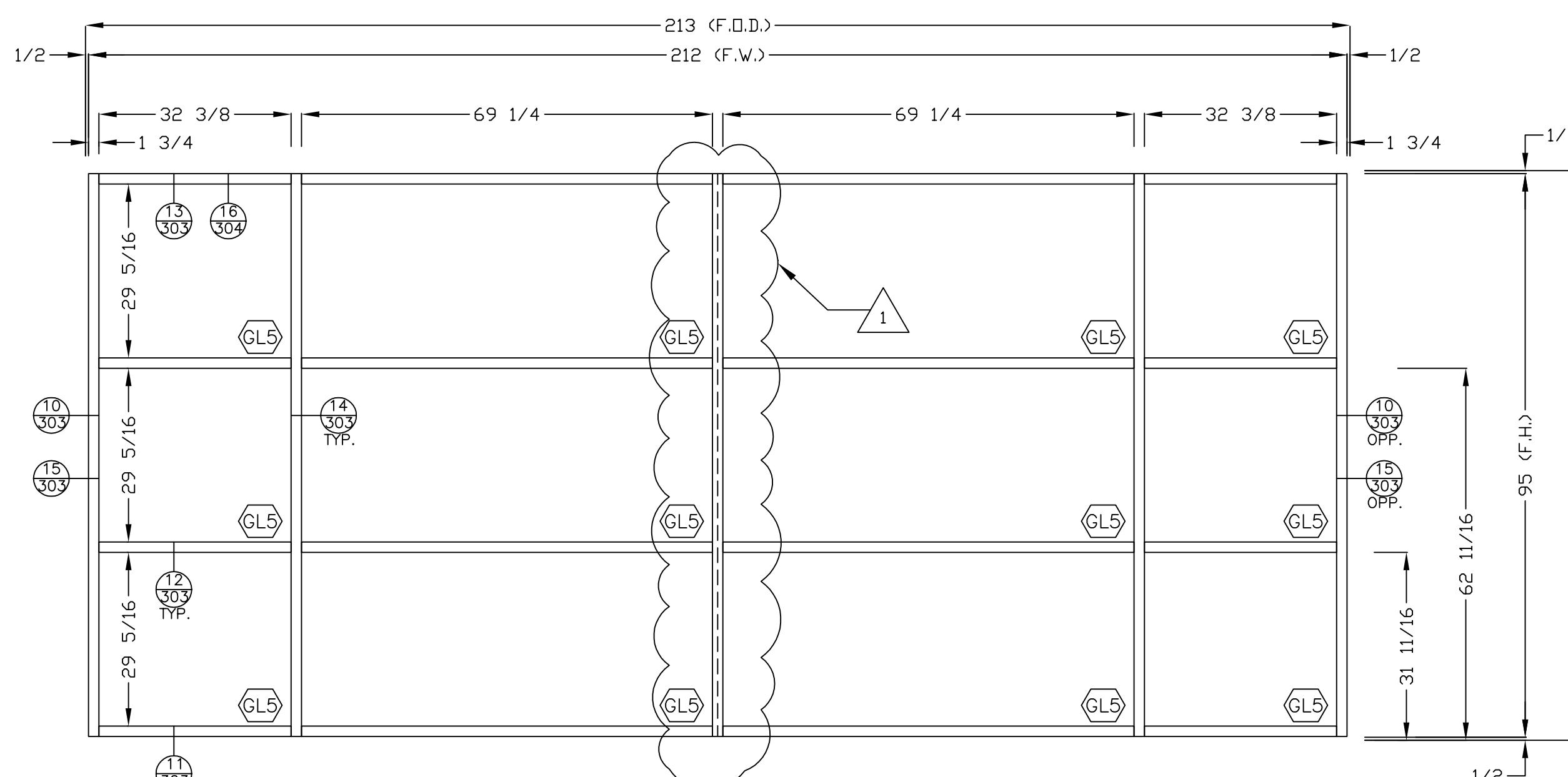


SF5.1 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

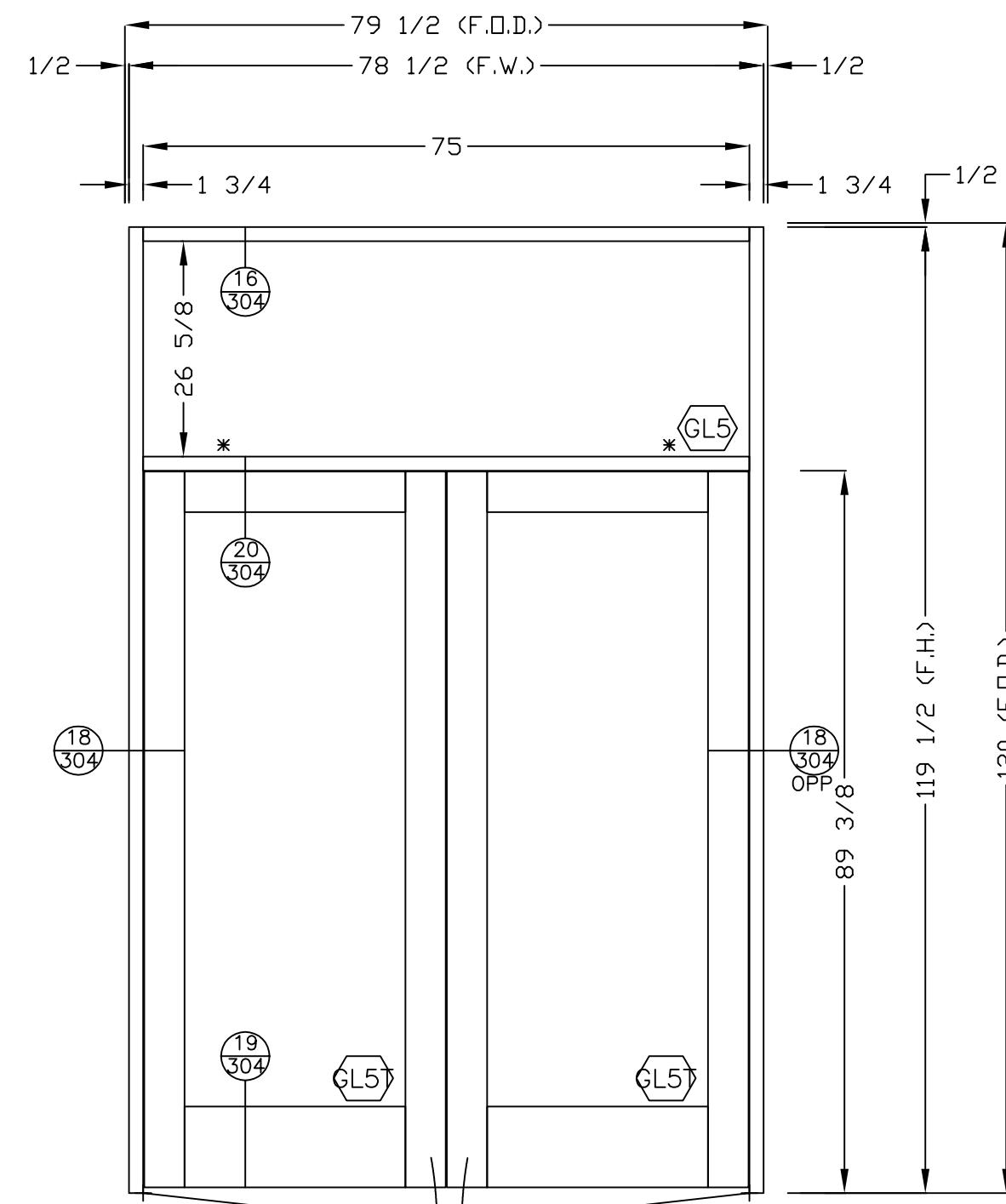


SF5.1A 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

NOTE TO ARCHITECT, G.C.:  
OPENING DIMENSIONS TO BE  
VERIFIED IN FIELD BY PGA  
PRIOR FRAME FABRICATION.



SF6 1/2" = 1'0 QTY. REQD=2--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200



SF7 DOOR 2500A.1, 2500A.2 1/2" = 1'0 QTY. REQD=2--#14 CLEAR  
KAWNEER ENCORE STOREFRONT (1 3/4" X 6")  
ARCH. REFERENCE 4/A200

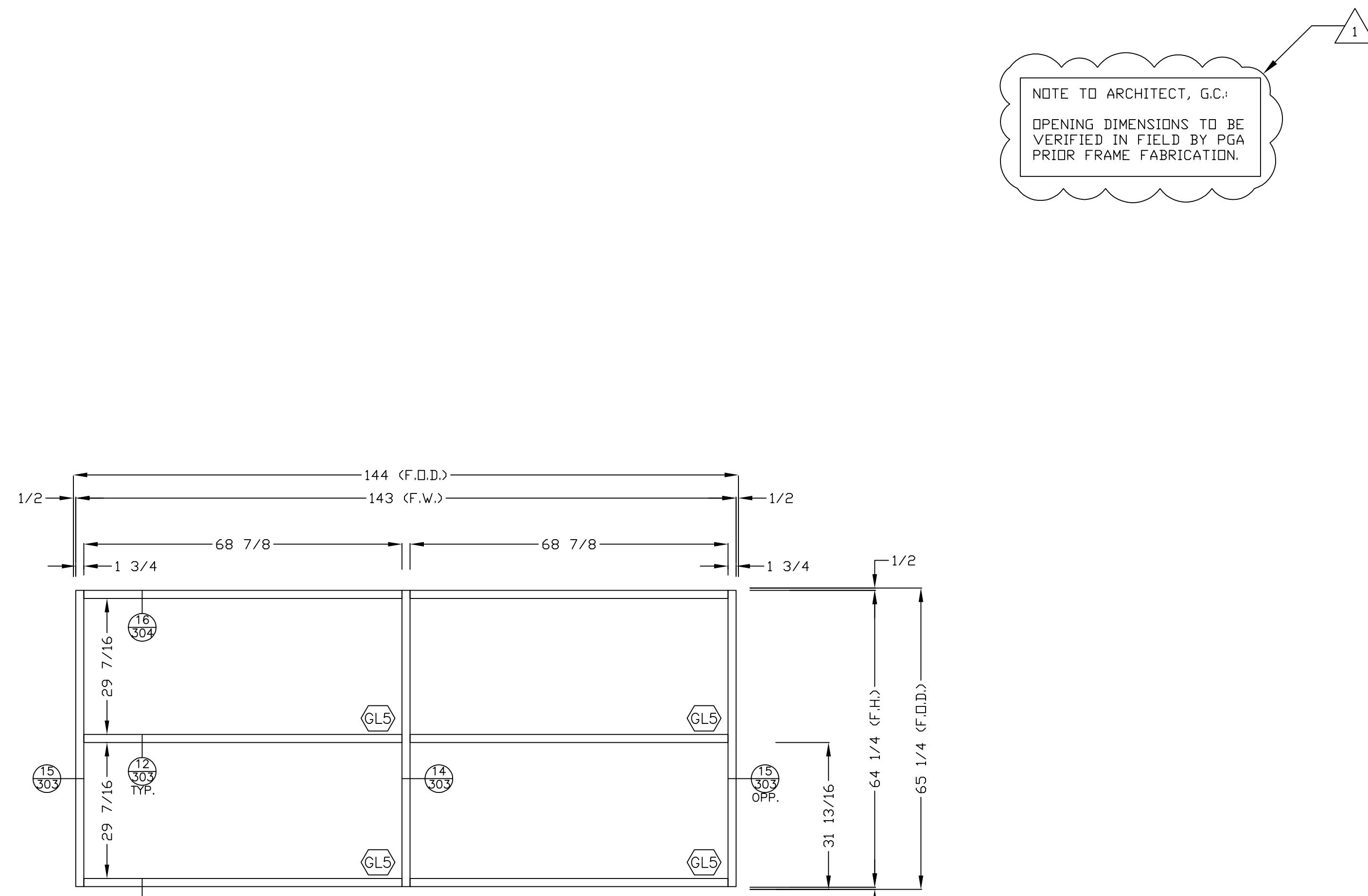
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<input type="checkbox"/>	1st SUBMISSION	05/21/20
<input type="checkbox"/>	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
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DRAWING SUBMISSION		

**PERFORMANCE**  
Glass & Aluminum Inc.

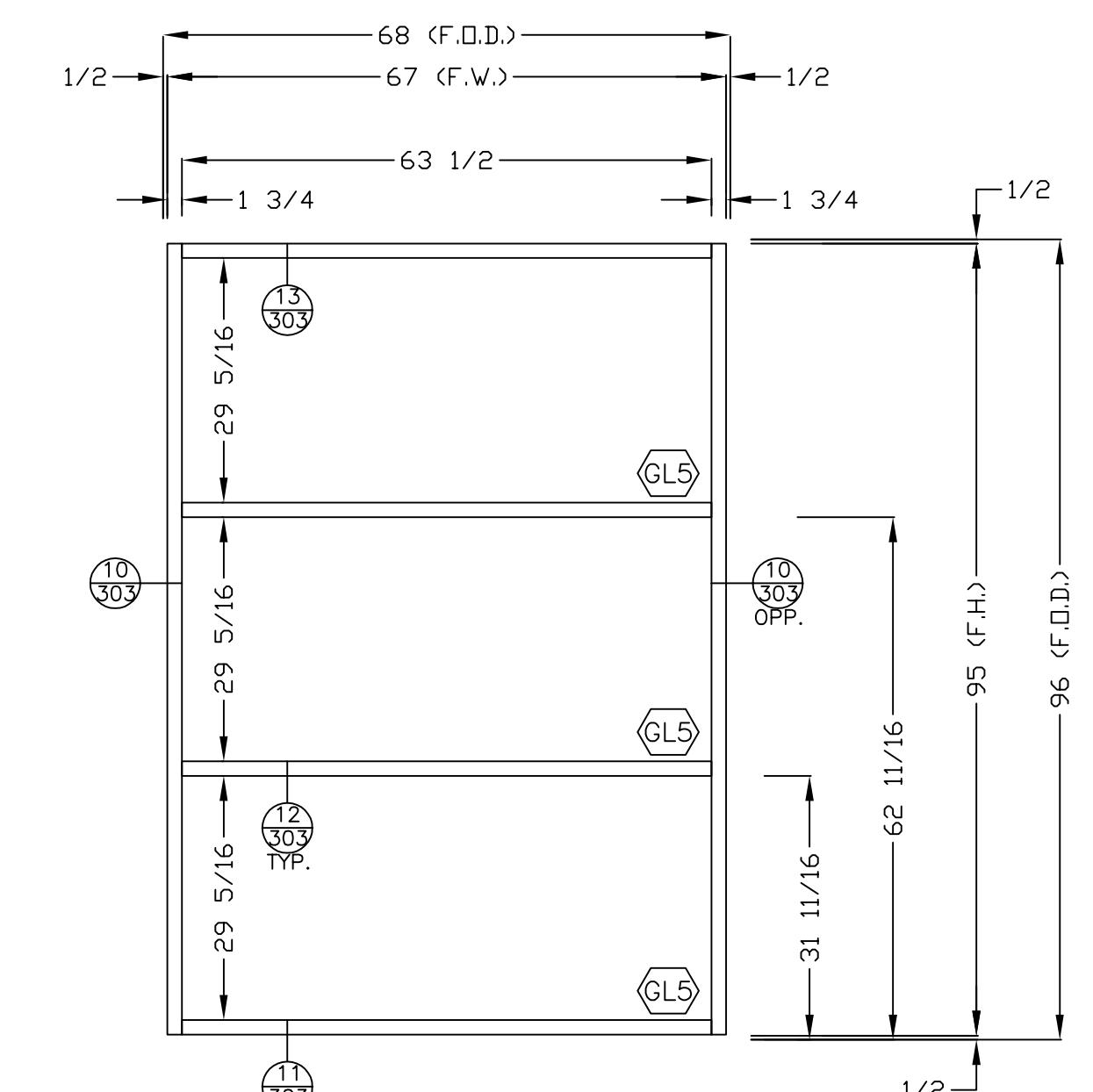
AUSTIN, TEXAS 501 W POWELL, STE 211  
AUSTIN, TX 78733  
p 512.632.4656

PROJECT:	UT-AUSTIN -- SEAY BUILDING - ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPANGLASS		
CUSTOMER:	N/A		
TITLE:	ELEVATIONS		
DRAWN BY:	D.R.	DATE:	05/21/20
CHECKED BY:	L.G.	DATE:	05/21/20
JOB NO.:	PGA_2020-085		
SHEET NO.:	207		

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

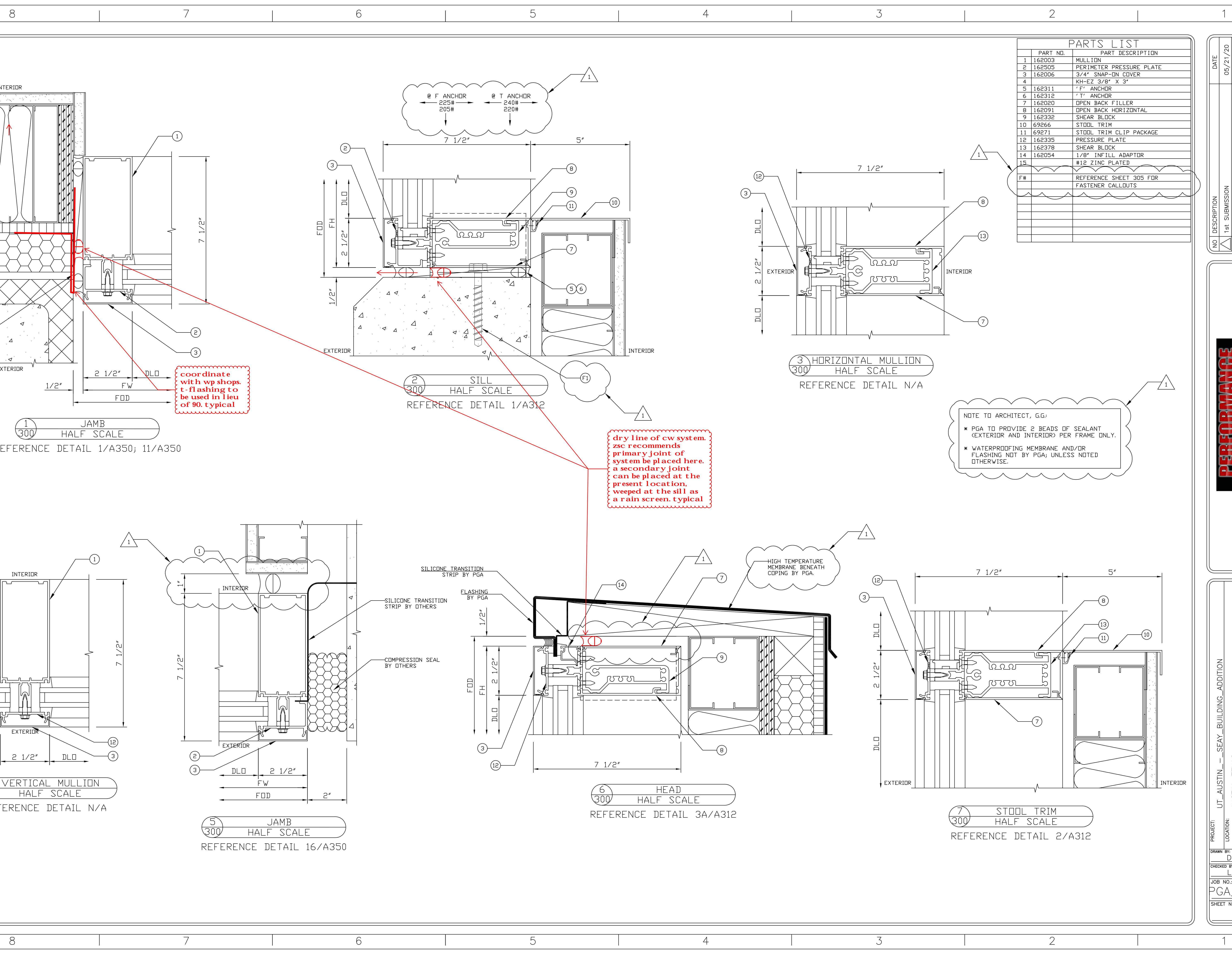


SF9 1/2" = 1'0 QTY. REQD=2--#14 CLEAR  
KAWNEER ENCORE STOREFRONT <1 3/4" X 6">  
ARCH. REFERENCE 4/A200



SF10 1/2" = 1'0 QTY. REQD=1--#14 CLEAR  
KAWNEER ENCORE STOREFRONT <1 3/4" X 6">  
ARCH. REFERENCE N/A

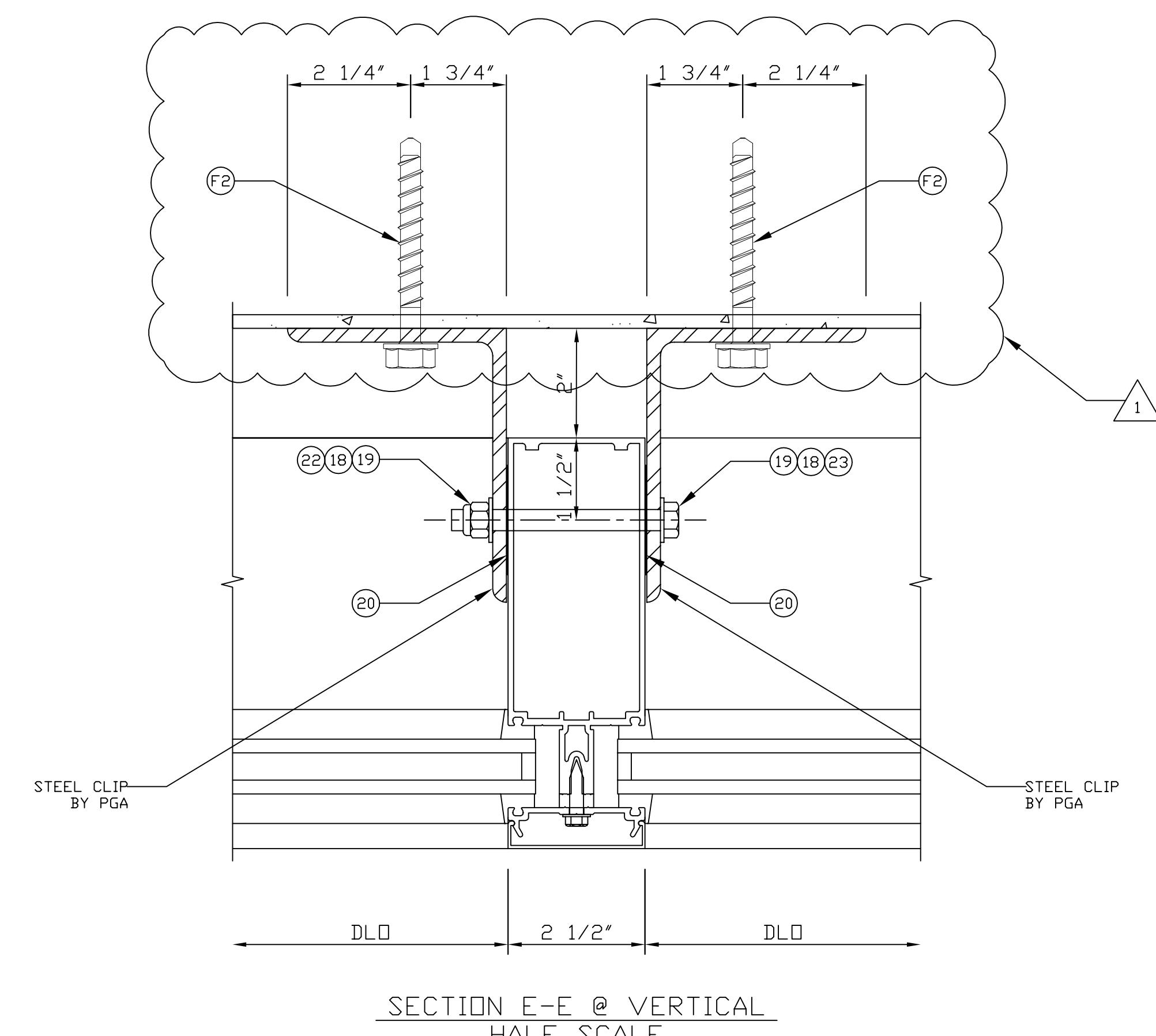
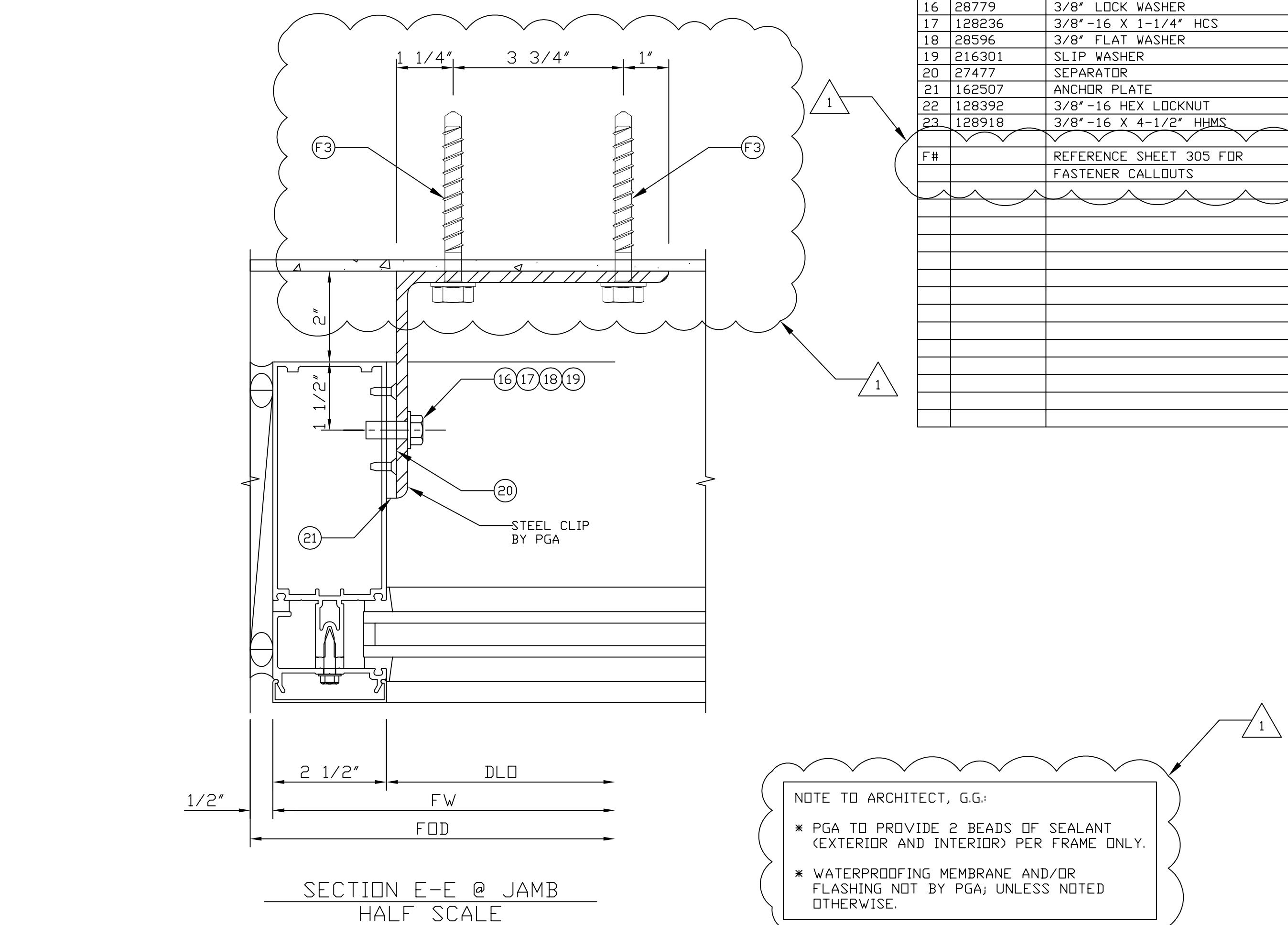
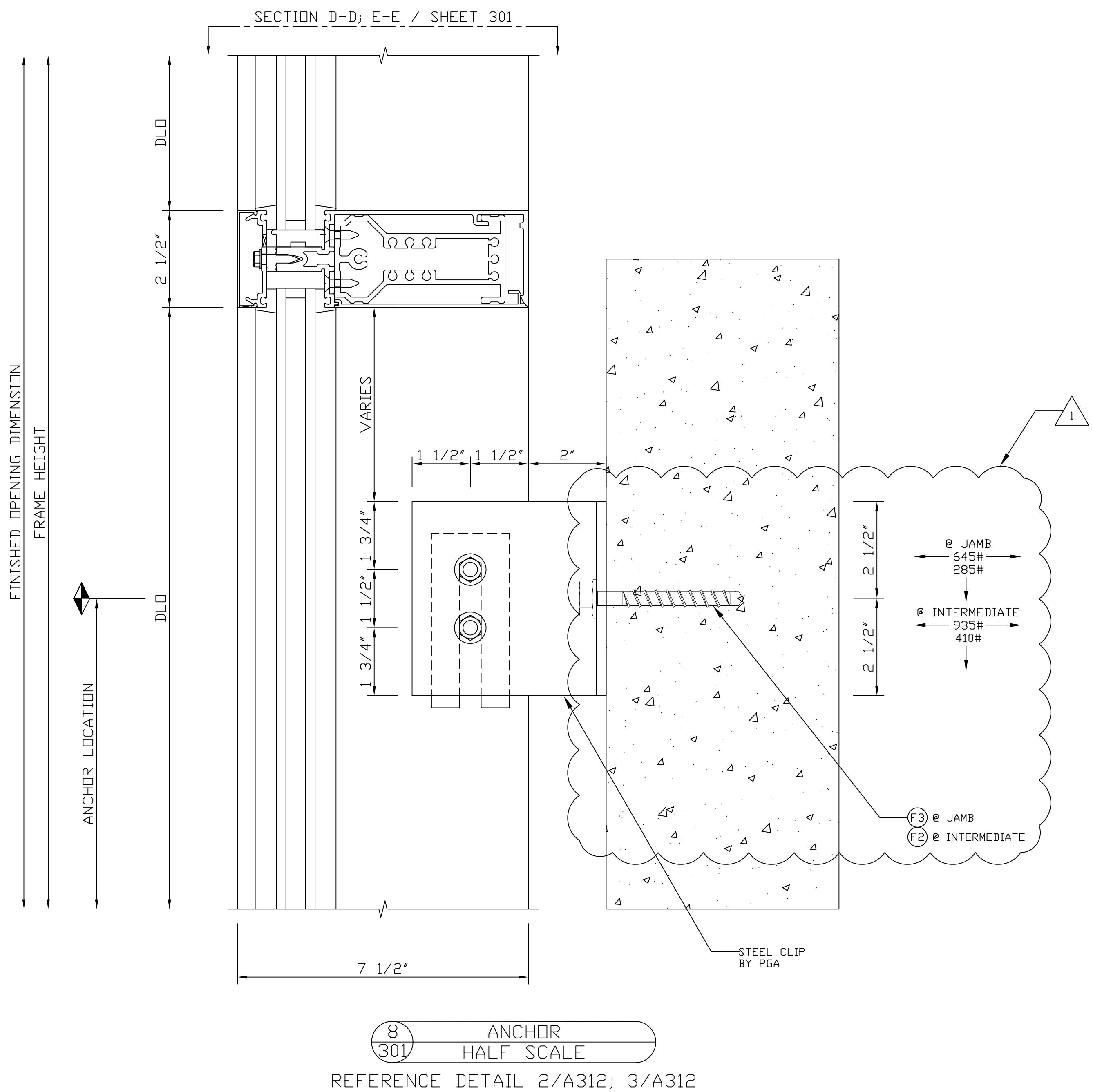
NO	DESCRIPTION	DATE
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2	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
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PROJECT: UT-AUSTIN -- SEAY BUILDING ADDITION	LOCATION: AUSTIN, TEXAS	ARCHITECT: BSA_LIFE_STRUCTURES	CONTRACTOR: SPAWNGLASS
DRAWN BY: D.R.	DATE: 05/21/20	CHECKED BY: L.G.	DATE: 05/21/20
JOB NO.: PGA_2020-085	CUSTOMER: N/A		
TITLE: DETAILS			
SHEET NO.: 300			

**PERFORMANCE GLASS & ALUMINUM Inc.**  
EL PASO, TEXAS 11111 ROJAS  
AUSTIN, TEXAS 501 W POWELL, STE 211  
EL PASO, TX 79935  
p 915.592.5583

DATE: 05/21/20  
REVISE & RESUBMIT / ENGINEERING REVIEW  
07/10/20  
DRAWING SUBMISSION

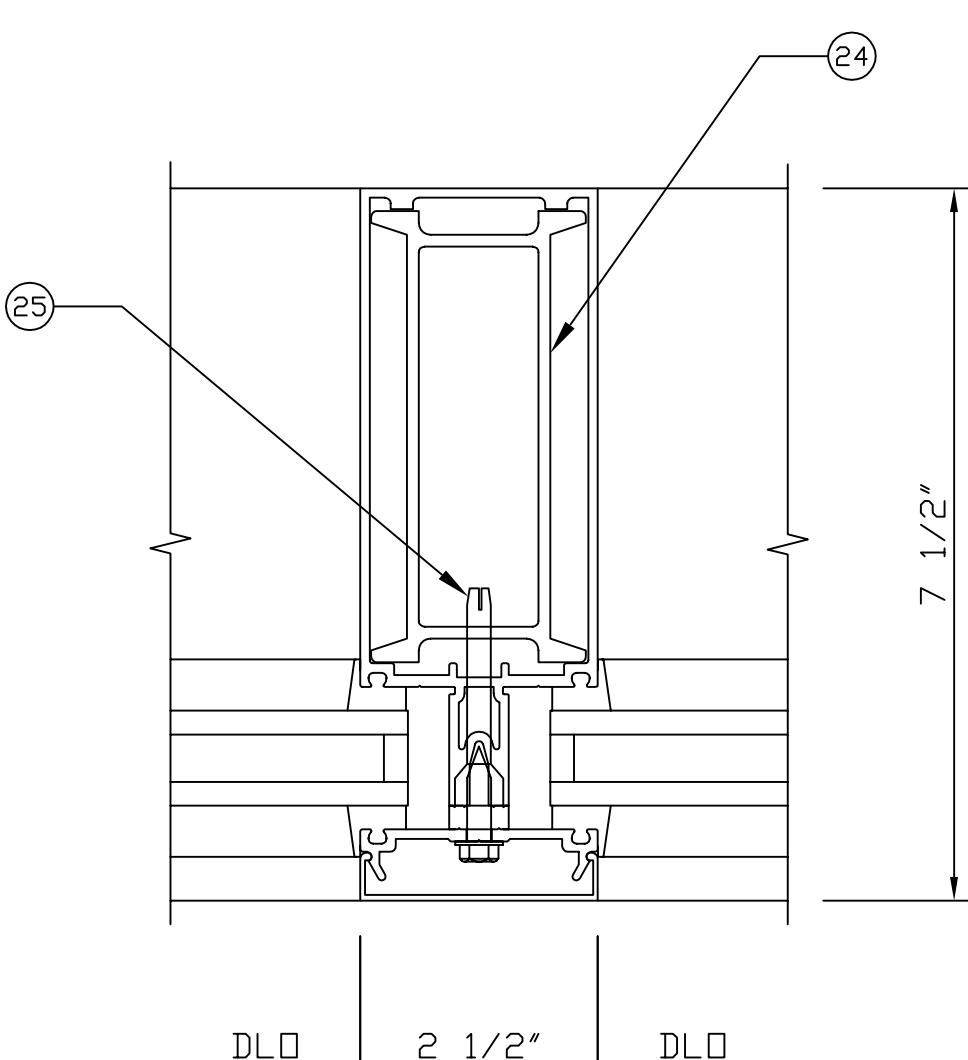
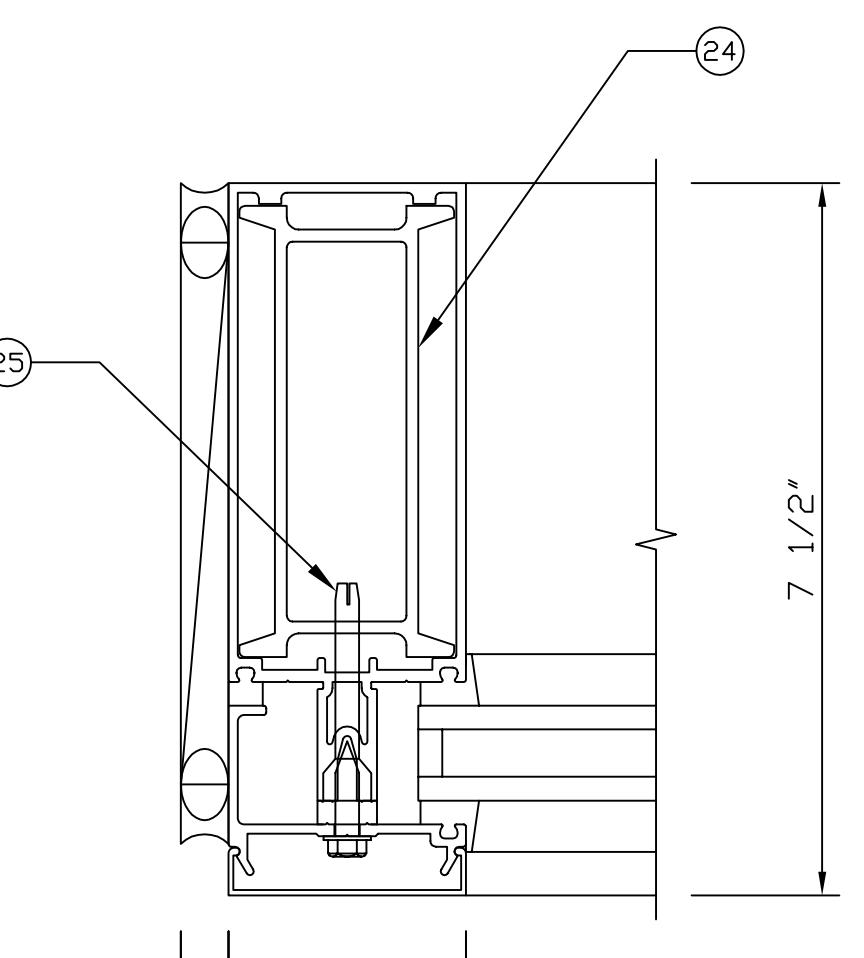


PARTS LIST	
PART NO.	PART DESCRIPTION
16 28779	3/8" LOCK WASHER
17 128236	3/8"-16 X 1-1/4" HCS
18 28596	3/8" FLAT WASHER
19 216301	SLIP WASHER
20 27477	SEPARATOR
21 162507	ANCHOR PLATE
22 128392	3/8"-16 HEX LOCKNUT
23 128918	3/8"-16 X 4-1/2" HHMS
F#	REFERENCE SHEET 305 FOR FASTENER CALLOUTS

NO.	DESCRIPTION	DATE
1	1st SUBMISSION	05/21/20
2	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
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## PARTS LIST

ITEM NO.	PART DESCRIPTION
07	MULLION SPLICE SLEEVE
08	1/4" -20 X 2" D FHTCMS



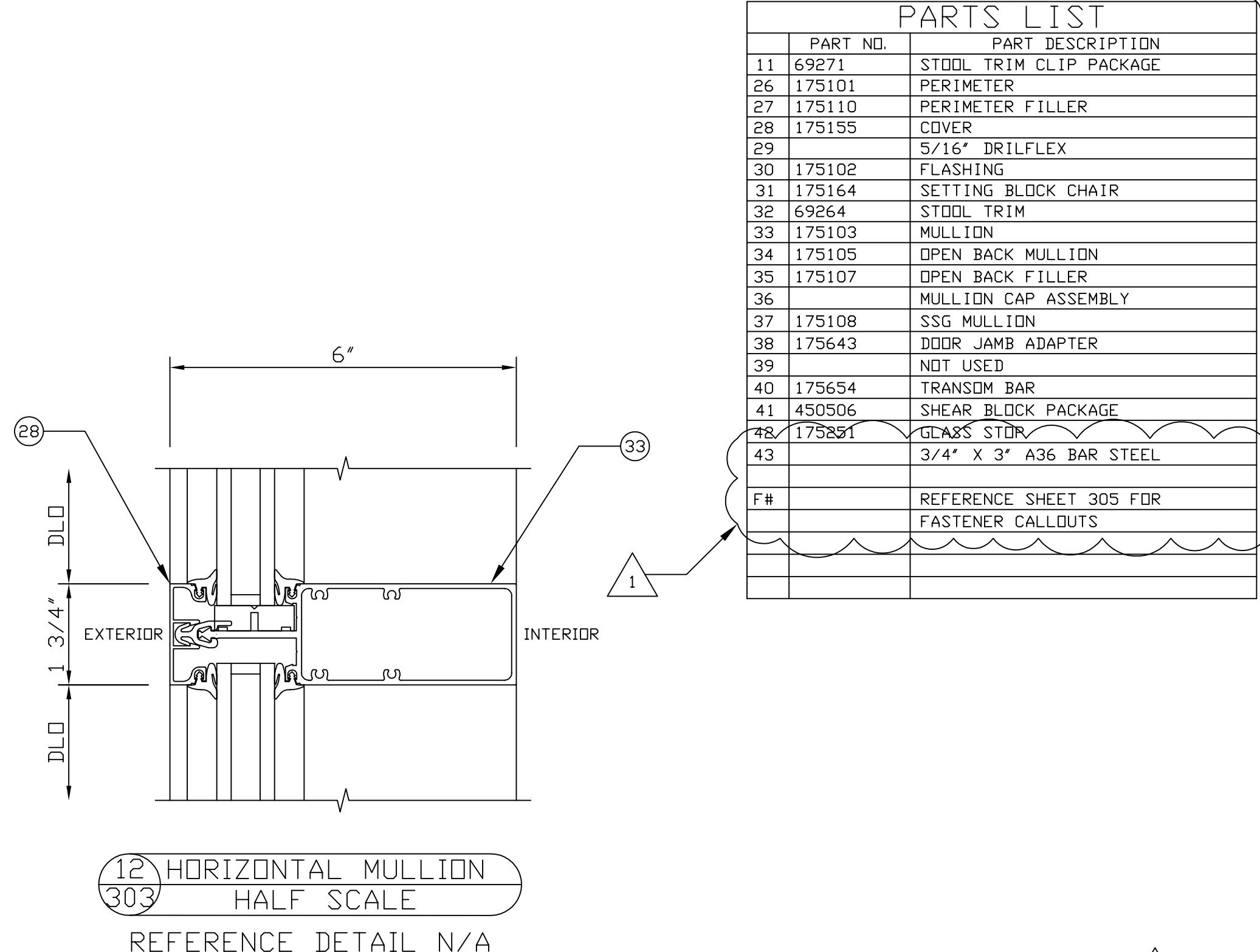
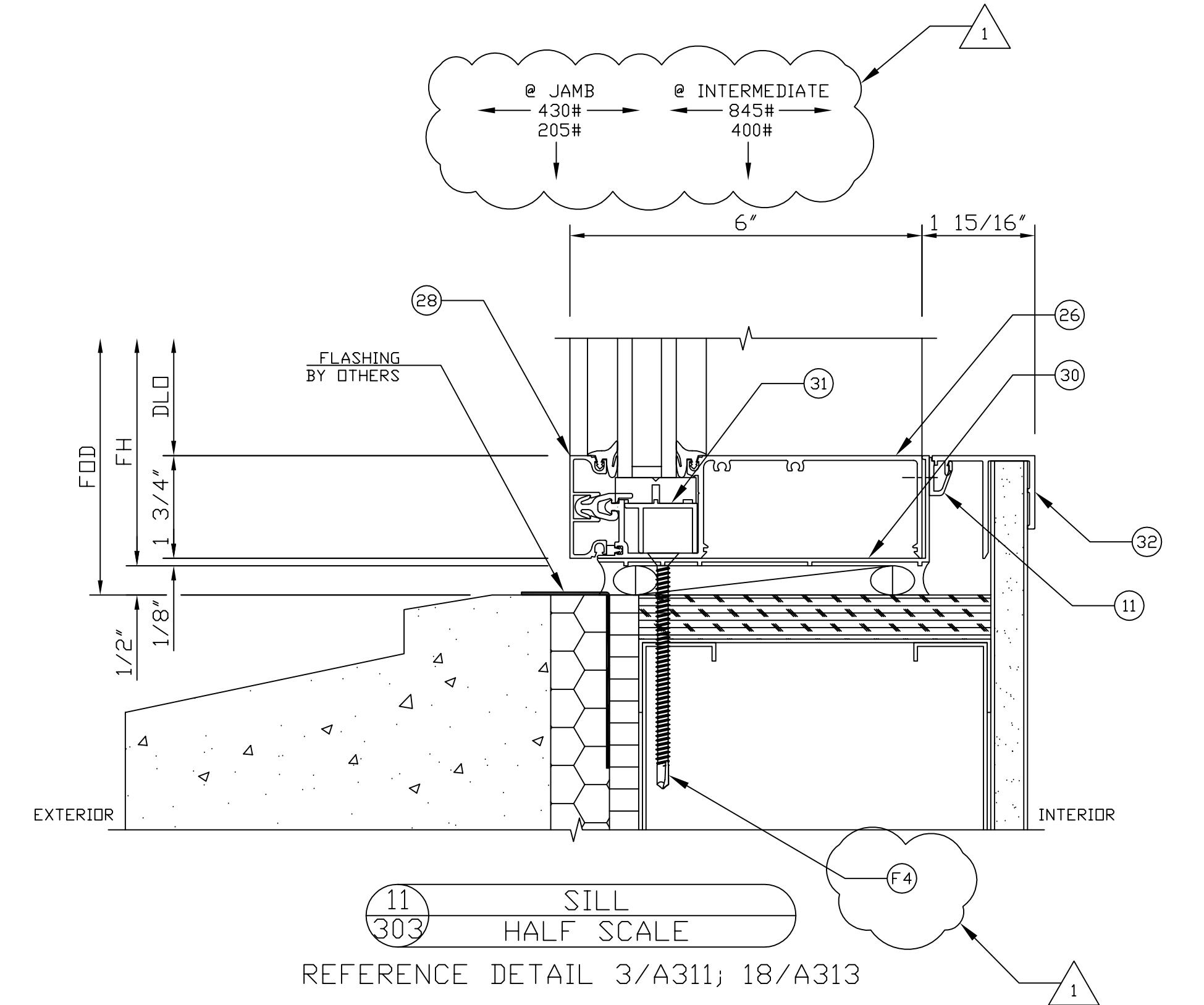
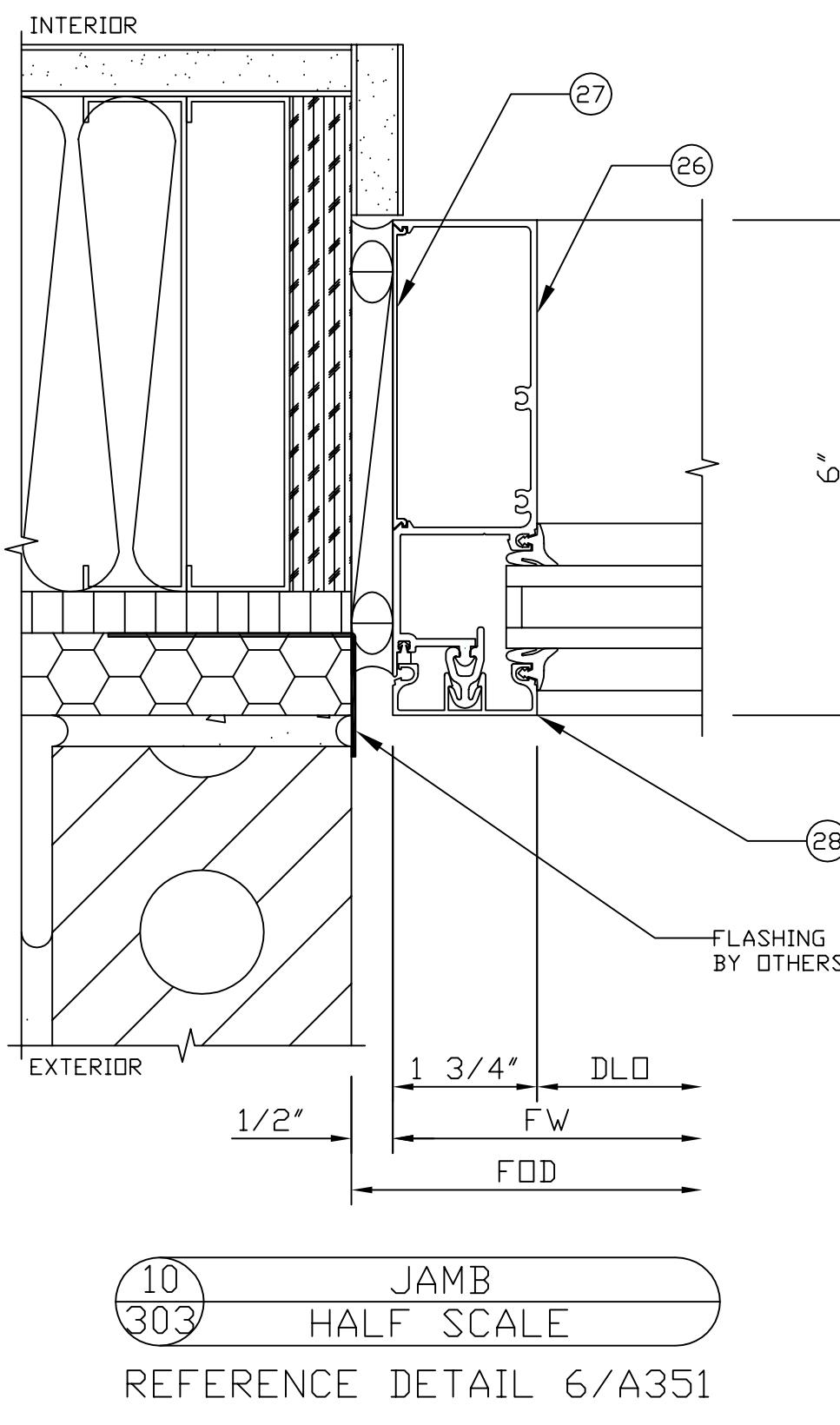
NOTE TO ARCHITECT, G.G.:

- \* PGA TO PROVIDE 2 BEADS OF SEALANT (EXTERIOR AND INTERIOR) PER FRAME ONLY.
- \* WATERPROOFING MEMBRANE AND/OR FLASHING NOT BY PGA; UNLESS NOTED OTHERWISE.

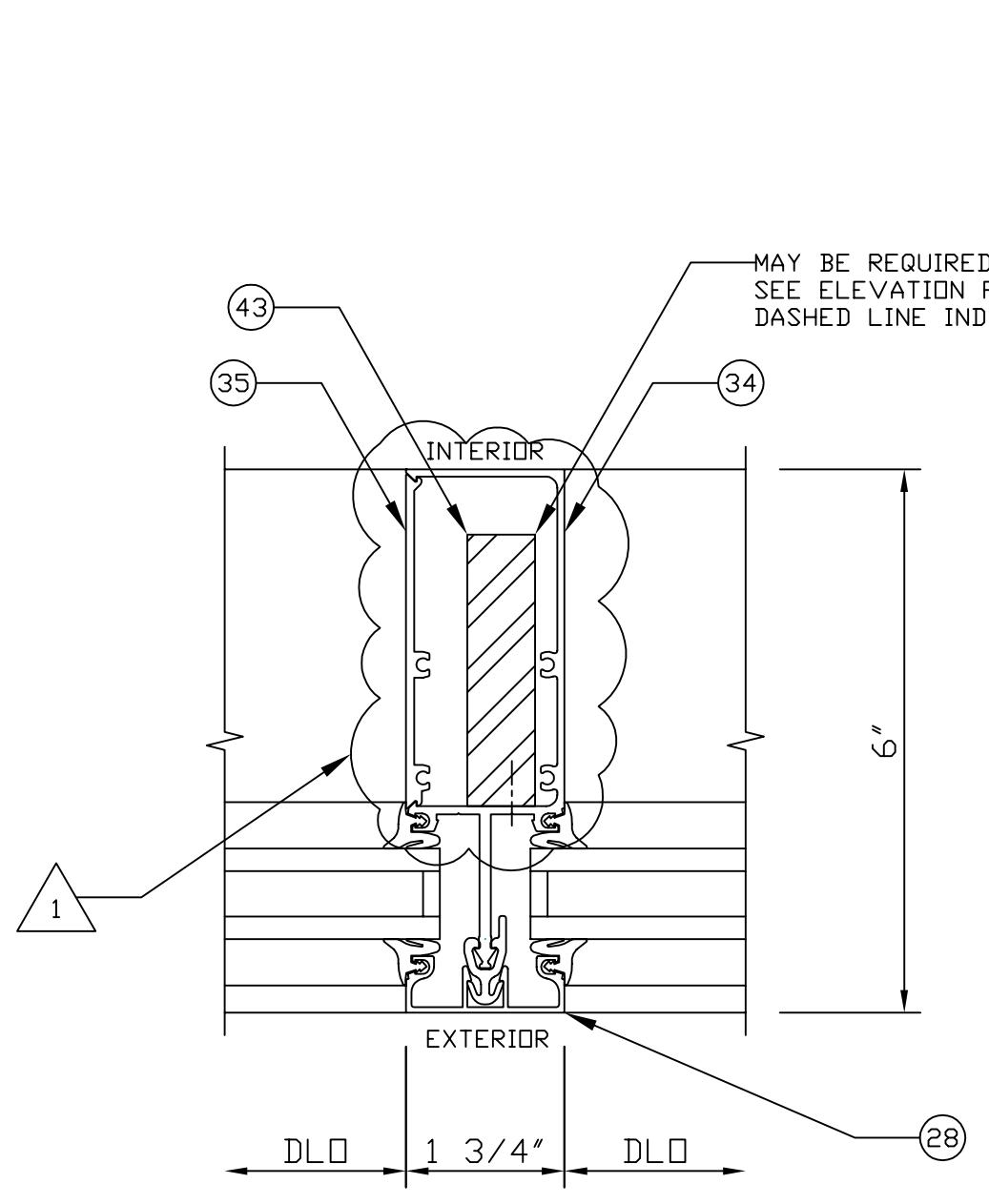
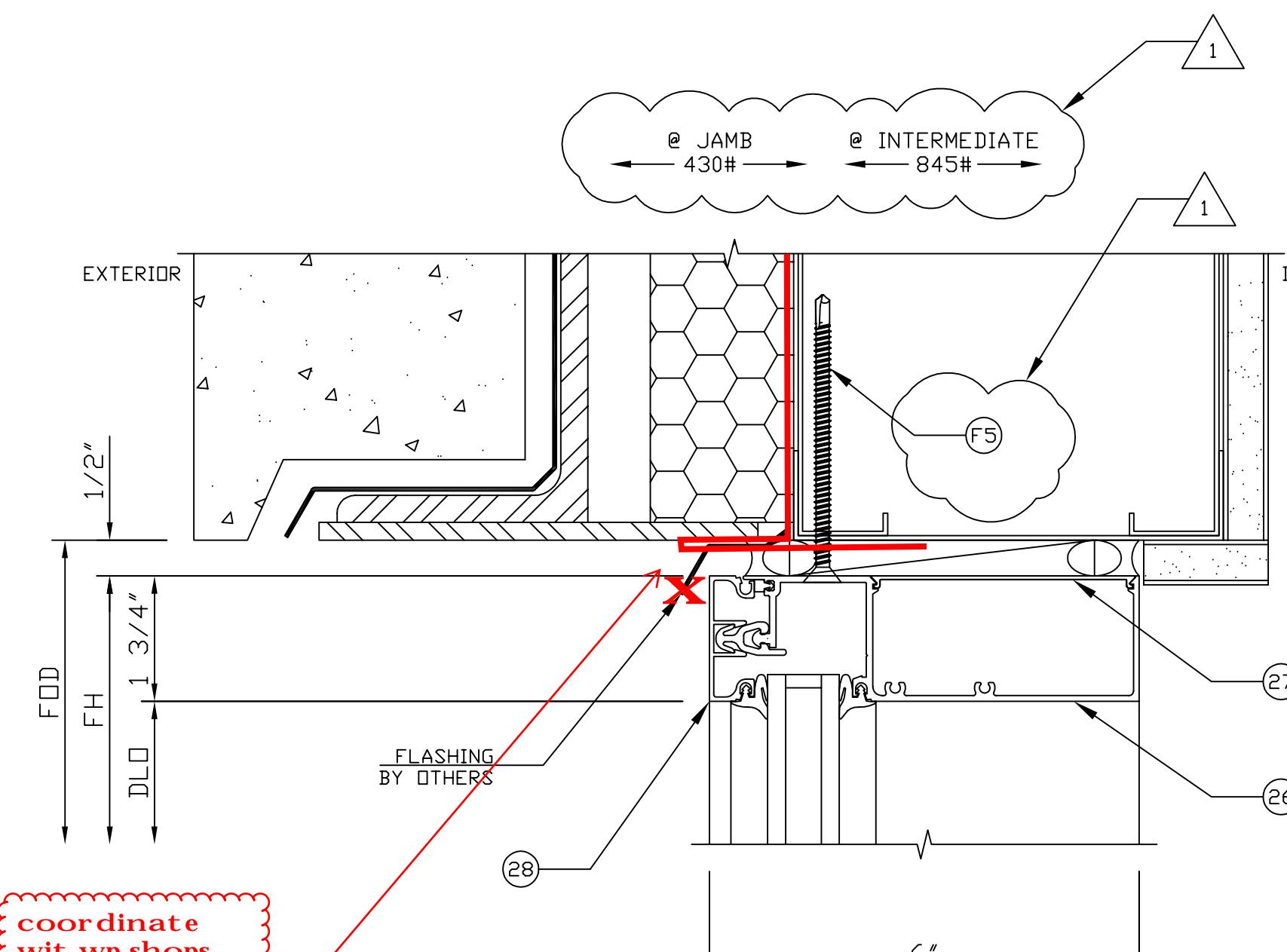
# **PERFORMANCE**

## Glass & Aluminum Inc.

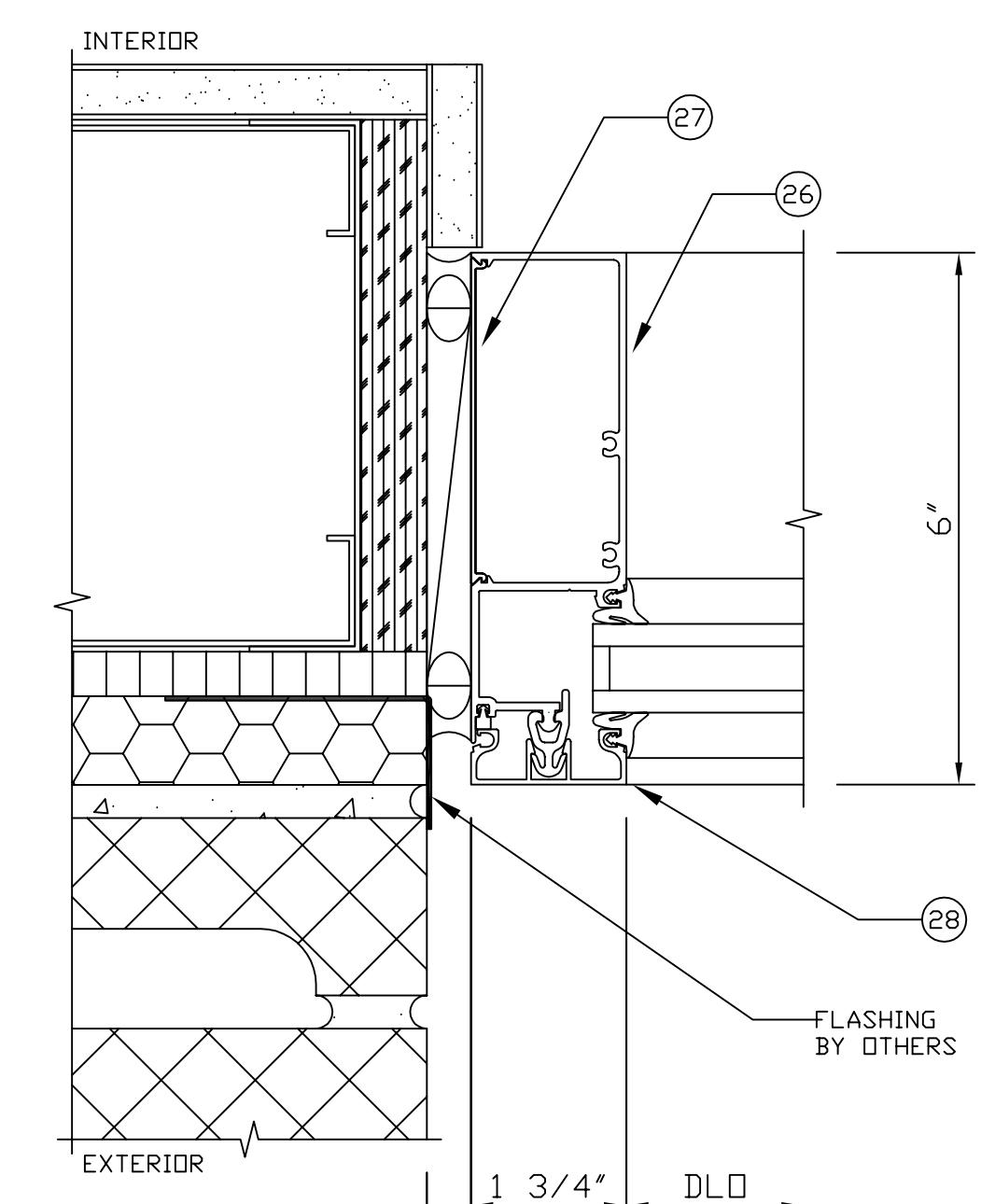
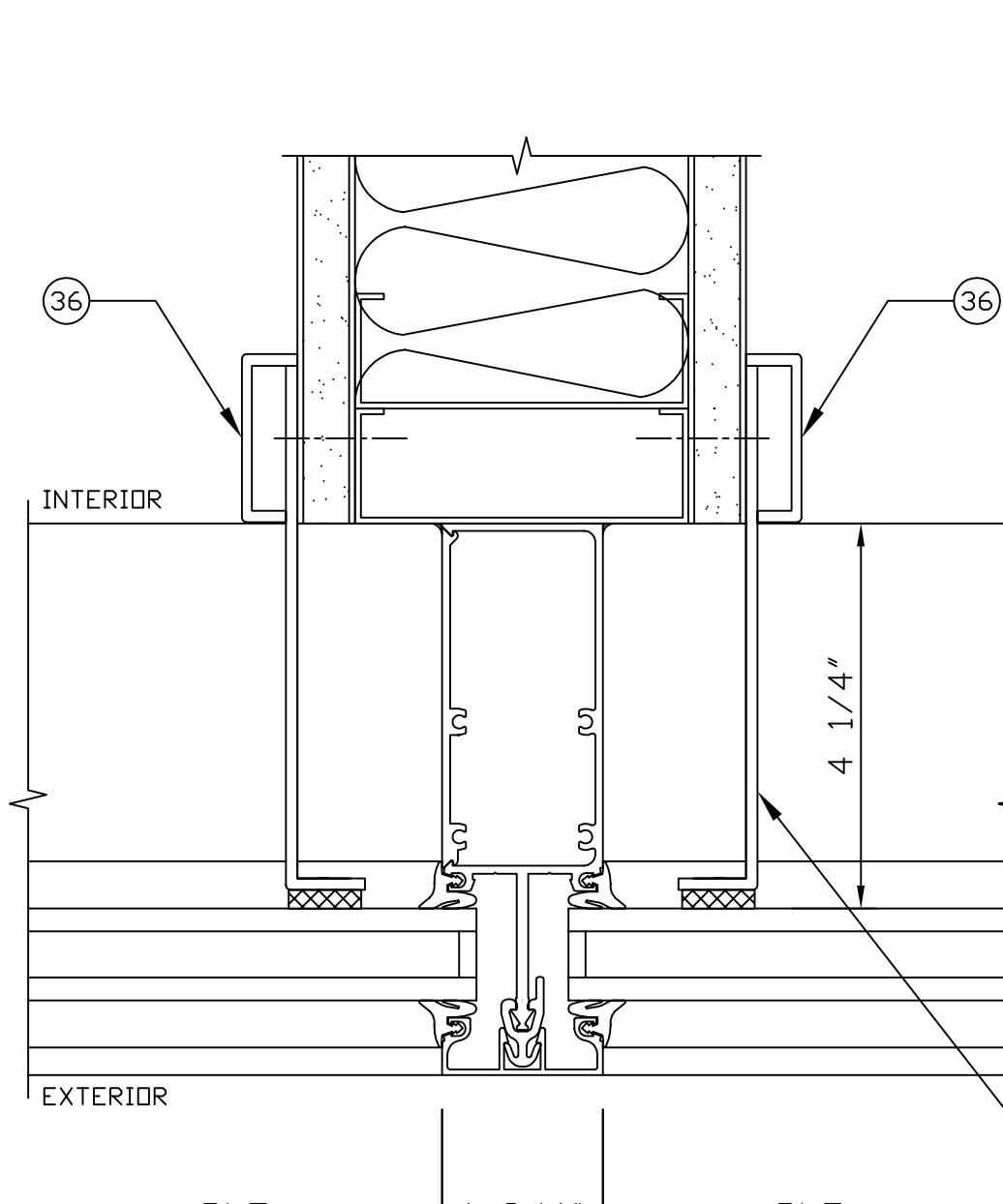
PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
DRAWN BY:	CONTRACTOR: SPAWGLASS		
D.R.	DATE: 05/21/20		
CHECKED BY:	CUSTOMER: N/A		
L.G.	TITLE: DETAILS		
JOB NO.:	DATE: 05/21/20		
PGA_2020-085			
SHEET NO.:	302		



NOTE TO ARCHITECT, G.G.:  
 \* PGA TO PROVIDE 2 BEADS OF SEALANT (EXTERIOR AND INTERIOR) PER FRAME ONLY.  
 \* WATERPROOFING MEMBRANE AND/OR FLASHING NOT BY PGA; UNLESS NOTED OTHERWISE.



NOTE:  
 MULLION CAP MAY BE REQUIRED.  
 SEE FLOOR PLANS FOR DETAIL 14A/303.



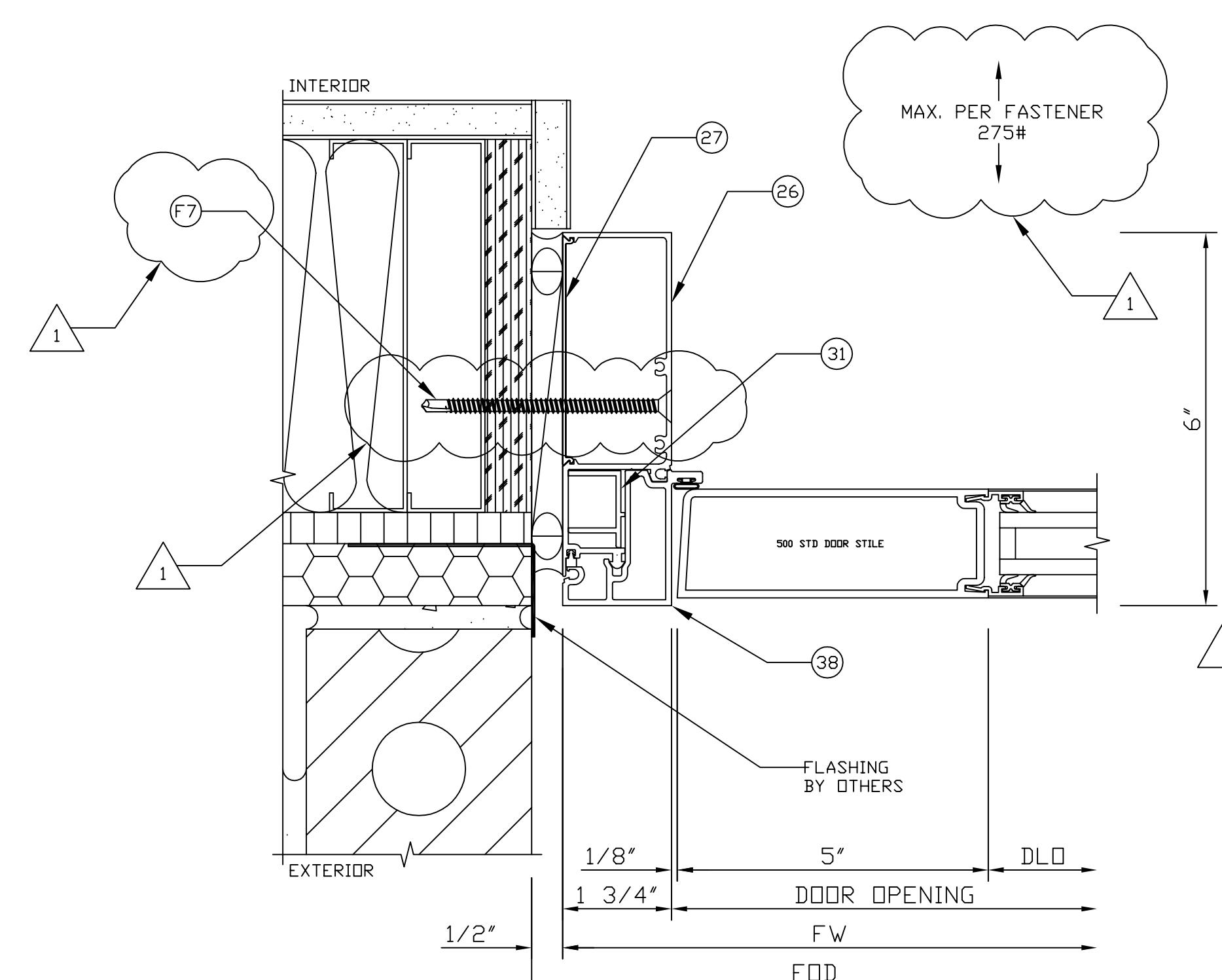
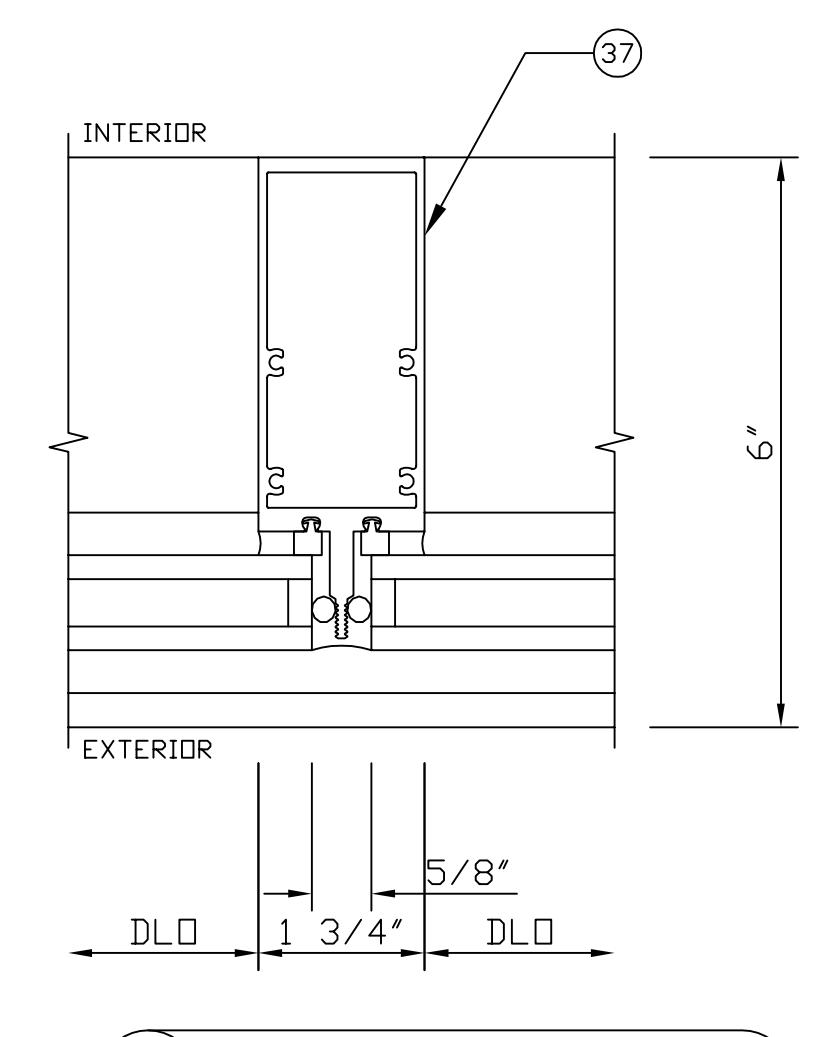
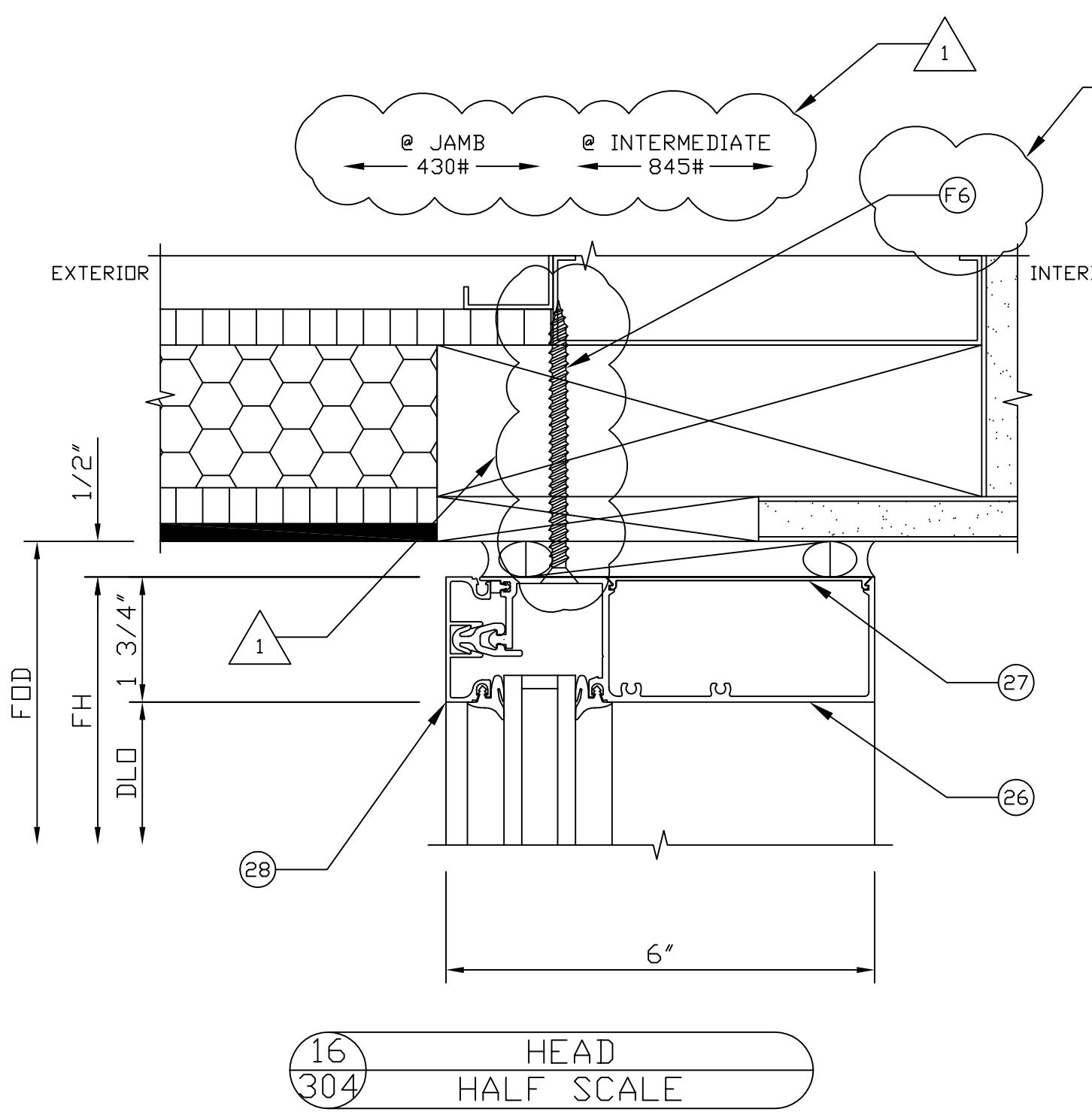
NO.	DESCRIPTION	DATE
11	STOOL TRIM CLIP PACKAGE	05/21/20
26	PERIMETER	05/21/20
27	PERIMETER FILLER	05/21/20
28	COVER	05/21/20
29	5/16" DRILFLEX	05/21/20
30	FLASHING	05/21/20
31	SETTING BLOCK CHAIR	05/21/20
32	STOOL TRIM	05/21/20
33	MULLION	05/21/20
34	OPEN BACK MULLION	05/21/20
35	OPEN BACK FILLER	05/21/20
36	MULLION CAP ASSEMBLY	05/21/20
37	SSG MULLION	05/21/20
38	DOOR JAMB ADAPTER	05/21/20
39	NOT USED	05/21/20
40	TRANSOM BAR	05/21/20
41	SHEAR BLOCK PACKAGE	05/21/20
42	Glass Stop	05/21/20
43	3/4" X 3" A36 BAR STEEL	05/21/20
F#	REFERENCE SHEET 305 FOR FASTENER CALLOUTS	05/21/20

**PERFORMANCE**  
Glass & Aluminum Inc.

AUSTIN, TEXAS 501 W POWELL, STE 211  
EL PASO, TX 79935 p 915.592.5583

PROJECT:	UT-AUSTIN -- SEAY BUILDING ADDITION
LOCATION:	AUSTIN, TEXAS
ARCHITECT:	BSA_LIFE_STRUCTURES
CONTRACTOR:	SPAWNGLASS
CUSTOMER:	N/A
TITLE:	DETAILS
DRAWN BY:	D.R.
DATE:	05/21/20
CHECKED BY:	L.G.
DATE:	05/21/20
JOB NO.:	PGA_2020-085
SHEET NO.:	303

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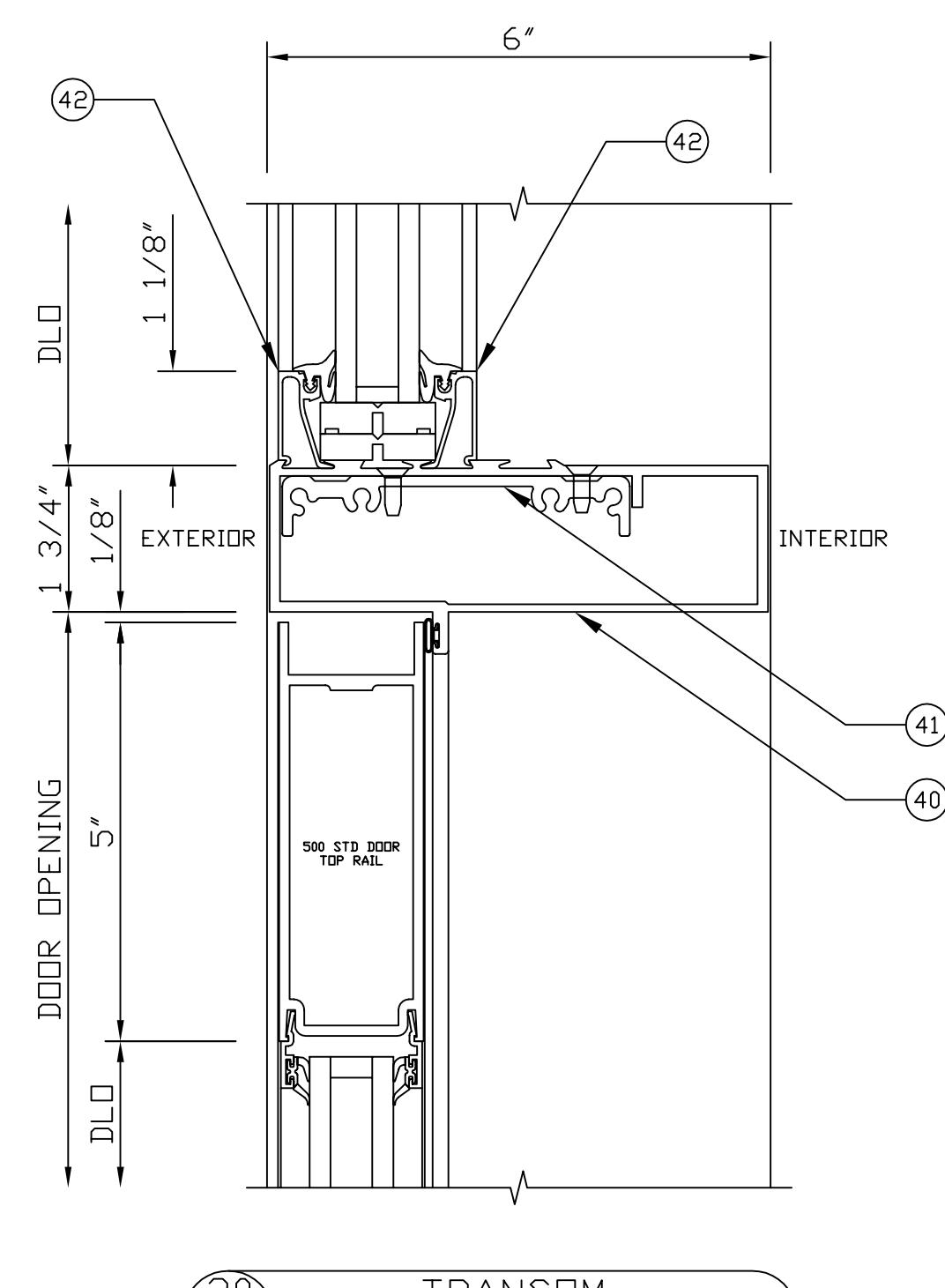
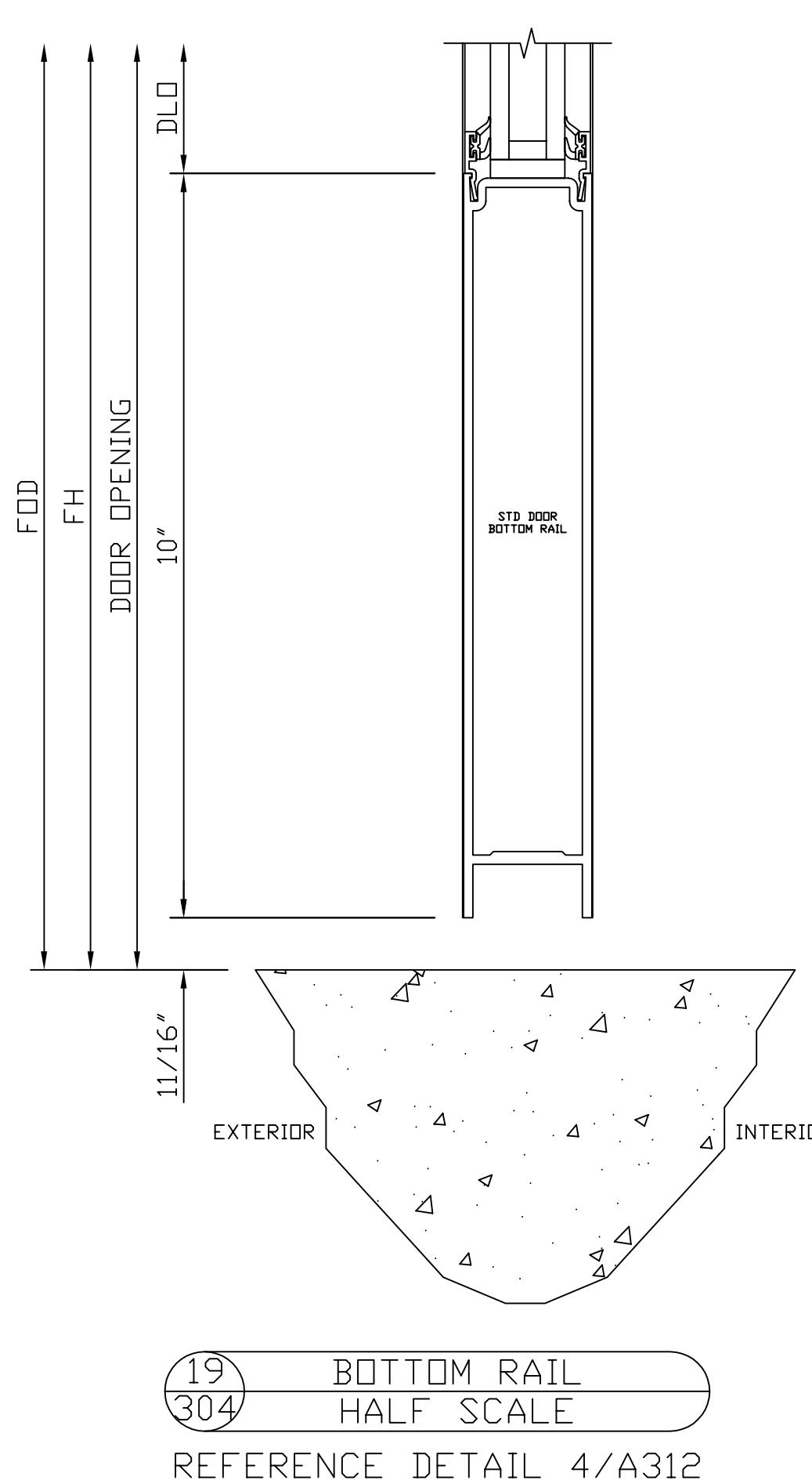
PARTS LIST	
PART NO.	PART DESCRIPTION
11 69271	STOOL TRIM CLIP PACKAGE
26 175101	PERIMETER
27 175110	PERIMETER FILLER
28 175155	COVER
29	5/16" DRILFLEX
30 175102	FLASHING
31 175164	SETTING BLOCK CHAIR
32 69264	STOOL TRIM
33 175103	MULLION
34 175105	OPEN BACK MULLION
35 175107	OPEN BACK FILLER
36	MULLION CAP ASSEMBLY
37 175108	SSG MULLION
38 175643	DOOR JAMB ADAPTER
39	NOT USED
40 175654	TRANSOM BAR
41 450506	SHEAR BLOCK PACKAGE
42 175251	Glass STOP
F#	REFERENCE SHEET 305 FOR FASTENER CALLOUTS

NO.	DESCRIPTION	DATE
1	1st SUBMISSION	05/21/20
2	REVISE & RESUBMIT / ENGINEERING REVIEW	07/10/20
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F#	REFERENCE SHEET 305 FOR FASTENER CALLOUTS	DRAWING SUBMISSION

**PERFORMANCE**  
**Glass & Aluminum Inc.**

 EL PASO, TEXAS 11111 ROJAS  
 AUSTIN, TEXAS 501 W POWELL, STE 211  
 EL PASO, TX 79935  
 AUSTIN, TX 78733  
 p 512.632.4656

PROJECT:	UT-AUSTIN - SEEY BUILDING ADDITION		
LOCATION:	AUSTIN, TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAWNGLASS		
CUSTOMER:	N/A		
TITLE:	DETAILS		
DRAWN BY:	D.R.	DATE:	05/21/20
CHECKED BY:	L.G.	DATE:	05/21/20
JOB NO.:	PGA_2020-085		
SHEET NO.:	304		



# FASTENER CALLOUTS

F1 - 3/8" DIAM. 1.54" EFFECTIVE EMBED HILTI KWIK HUS-EZ (KH-EZ), BASED ON  $F'_c=3000\text{PSI}$  (NW, CRACKED), 7" MIN. CONCRETE THICKNESS, AND 2-1/2" MIN. EDGE DISTANCE, USE (2) PER F-ANCHOR (4" APART) & (2) PER T-ANCHOR (7" APART).

F2 - 1/2" DIAM. 2.16" EFFECTIVE EMBED HILTI KWIK HUS-EZ (KH-EZ), BASED ON  $F'_c=3000\text{PSI}$  (NW, CRACKED), 6" MIN. CONC. THICKNESS, AND 4" MIN. EDGE DIST. USE (1) PER 6" X 4" X 3/8" A36 STEEL ANGLE (5" CUT LENGTH) ON EACH SIDE OF VERTICAL.

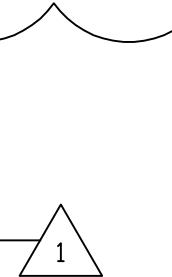
F3 - 1/2" DIAM. 2.16" EFFECTIVE EMBED HILTI KWIK HUS-EZ (KH-EZ), BASED ON  $F'_c=3000\text{PSI}$  (NW, CRACKED), 6" MIN. CONC. THICKNESS, AND 4" MIN. EDGE DISTANCE, AT JAMB USE (2) 3-3/4" APART 6" X 6" X 3/8" A36 STEEL ANGLE (5" CUT LENGTH).

F4 - 1/4"-14 X 2" LONG PHILLIPS DRIVE FLAT HEAD EPOXY FINISH #3 PT 410 SS SELF-DRILLING SCREW, BASED ON #16 GA MS (Fu=65KSI MIN.), FASTEN (1) 3" ON EACH SIDE OF VERTICAL THRU SILL MEMBER AND SILL FLASHING.

F5 - 1/4"-14 X 2" LONG PHILLIPS DRIVE FLAT HEAD EPOXY FINISH #3 PT 410 SS SELF-DRILLING SCREW, BASED ON #16 GA MS (Fu=65KSI MIN.), FASTEN (1) 3" ON EACH SIDE OF VERTICAL THRU HEAD MEMBER.

F6 - #14 GA X 2" THREAD PENETRATION 300 SS 18-8 WOOD SCREW, BASED ON SG=0.42 & 2" MIN. EDGE DISTANCE, FASTEN (3) 1" APART 3" ON EACH SIDE OF VERTICAL THRU HEAD MEMBER.

F7 - 1/4"-14 X 4" LONG PHILLIPS DRIVE FLAT HEAD EPOXY FINISH #3 PT 410 SS SELF-DRILLING SCREW, BASED ON #16 GA MS (Fu=65KSI MIN.), FASTEN (1) 5" ABOVE SILL & (1) 24" O.C. THRU DOOR JAMB.



EL PASO, TEXAS 11111 ROJAS  
EL PASO, TX 79935  
p 915.592.5583  
AUSTIN, TEXAS 501 W POWELL, STE 211  
AUSTIN, TX 78753  
p 512.632.4656

PROJECT:	UT_AUSTIN_-_SEAY_BUILDING_ADDITION		
LOCATION:	AUSTIN,_TEXAS		
ARCHITECT:	BSA_LIFE_STRUCTURES		
CONTRACTOR:	SPAWGLASS		
CUSTOMER:	N/A		
TITLE:	DETAILS		
DRAWN BY:	DATE: D.R. 05/21/20		
CHECKED BY:	DATE: L.G. 05/21/20		
JOB NO.:			
P GA_2020-085			
SHEET NO.:			

Forensic Architecture  
Exterior Envelope Consulting  
Water Infiltration Testing  
Inspection Services

[www.z6consulting.com](http://www.z6consulting.com)  
1027 Tremont Street  
Galveston, TX 77550  
Phone (409) 740-0090

**ZERO / SIX**  
**C o n s u l t i n g**  
Envelope Architecture

## SUBMITTAL REVIEW

Submittal No.: 084413-001

Description: Glazed Aluminum Curtain Walls - PD

Project Name: UT Austin - SEA

Project No.: 102-1219

- NO EXCEPTIONS TAKEN
- SUBMIT SPECIFIED ITEM(S)
- ACTION NOT REQUIRED
- EXCEPTIONS NOTED
- REVISE AND RESUBMIT
- NOT REVIEWED

Corrections and notations on Shop Drawings during this review do not relieve this Contractor from complying with the requirements of the Contract Documents. This review is only for check of general conformance with the design concept of the project and general compliance with the information given in contract documents. Contractor is responsible for confirming and coordinating all quantities and dimensions, selecting fabrication processes and techniques of construction, and performing his work in a safe manner.



Darryl Castleberry

BY:

DATE: 2020/06/23

Submittal Comments:



SpawGlass Contractors, Inc.  
9331 Corporate Drive  
Selma TX 78154

# TRANSMITTAL

No. 0235

PROJECT: UT Seay Building Addition

DATE: 06/18/2020

TO: BSA Lifestructures  
AL

RE: Glazed Aluminum Curtain Walls - Product Data

ATTN: Ramon Arteaga

JOB: 3018105

WE ARE SENDING:		SUBMITTED FOR:	ACTION TAKEN:
<input type="checkbox"/> Shop Drawings		<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> Approved as Submitted
<input type="checkbox"/> Letter		<input type="checkbox"/> Your Use	<input type="checkbox"/> Approved as Noted
<input type="checkbox"/> Prints		<input type="checkbox"/> As Requested	<input type="checkbox"/> Returned After Loan
<input type="checkbox"/> Change Order		<input type="checkbox"/> Review and Comment	<input type="checkbox"/> Resubmit
<input type="checkbox"/> Plans			<input checked="" type="checkbox"/> Submit
<input type="checkbox"/> Samples		<b>SENT VIA:</b>	<input type="checkbox"/> Returned
<input type="checkbox"/> Specifications		<input type="checkbox"/> Attached <input type="checkbox"/> Separate Cover	<input type="checkbox"/> Returned for Corrections
<input type="checkbox"/> Other:			<input checked="" type="checkbox"/> Due Date: 07/02/2020
<input checked="" type="checkbox"/> Submittal:			<input type="checkbox"/> Other:

Line	Item	Package	Code	Cycle	Qty	Date	Description	Status
1	Submittal		084413-001	1		06/18/2020	Glazed Aluminum Curtain Walls - Product Data	Submitted for Approval

**SpawGlass Contractors, Inc.**

REVIEWED FOR COMPLIANCE   
COMMENTS NOTED   
REVISE AND RESUBMIT   
OTHER:

DATE 6/18/2020 SPEC# 084413

REVIEWED BY tanner.hawkins

SUBMITTAL# 084413-001

APPROVAL DOES NOT RELIEVE THE SUBCONTRACTOR OR SUPPLIER OF RESPONSIBILITY FOR ACCURACY, COMPLETENESS, QUANTITIES, DIMENSIONS, AND COMPLIANCE WITH CONTRACT DOCUMENTS

## REMARKS:

CC:

Signed: Tanner Hawkins  
Tanner Hawkins



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.4 Action Submittals  
B. Product Data

# Imposing Statements – Used Together or Independently



Building on the proven success of Kawneer's 1600 Wall System™ that set the standard for curtain wall engineering, 1600 Wall System™1 Curtain Wall and 1600 Wall System™2 Curtain Wall provide reliability with versatile features. Both are stick-fabricated, pressure glazed curtain walls for low- to mid-rise applications and are designed to be used independently or as an integrated system to provide visual impact for almost any type of building.

- 1600 Wall System1 is an outside glazed, captured curtain wall
- 1600 Wall System2 is a Structural Silicone Glazed (SSG) curtain wall

## AESTHETICS

Even the smallest details of 1600 System™1/1600 Wall System™2 Curtain Wall reflect the aesthetics and reliability that derive from Kawneer's precise engineering and experience. The joinery for both systems is accomplished with concealed fasteners to create unbroken lines and a monolithic appearance. When using optional, open-back horizontal mullions, the fillers snap at the edge, producing an uninterrupted sightline.

## PERFORMANCE

Key aspects of 1600 System™1 Curtain Wall and 1600 Wall System™2 Curtain Wall are enhanced for higher performance. Pressure equalization has been designed into the system, and all components are silicone compatible to provide superior longevity. For installations where severe weather conditions are prevalent, 1600 Wall System1 has been large missile hurricane impact and cycle tested. Proven through years of high performance, both systems are tested according to industry standards:

### PERFORMANCE TEST STANDARDS

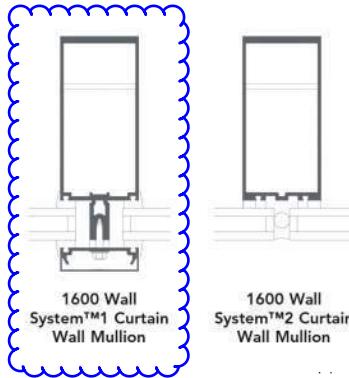
Air Performance	ASTM E283
Static Water Penetration	ASTM E331
Dynamic Water Penetration	AAMA 501.1
Structural Performance	ASTM E330
U-factor, CRF	AAMA 1503.1
Sound Transmission	ASTM E90-90
Seismic Performance	AAMA 501.4

## FOR THE FINISHING TOUCH

Architectural Class I anodized aluminum finishes are available in clear and Permanodic™ color choices.

Painted finishes, including fluoropolymer, that meet AAMA 2605 are offered in many standard choices and an unlimited number of specially designed colors.

Solvent-free powder coatings add the green element with high performance, durability and scratch resistance that meet the standards of AAMA 2604.



### 1600 Wall System™1 / 1600 Wall System™2 Curtain Wall for:

- Reliability
- Performance
- Versatility
- A smooth, monolithic appearance
- Uninterrupted sightlines



Hunt Tower  
Rogers, Arkansas

ARCHITECTS  
**Core Architects, Inc., Rogers, Arkansas**  
**Georg Anderson Design, Conway, Arkansas**

CONTRACT GLAZIER / INSTALLER  
**ACE Glass Construction Corporation, Lowell, Arkansas**

PHOTOGRAPHY  
© Perzel Photography Group



Alfred R. Goldstein Library, Ringling College of Art and Design  
Sarasota, Florida

ARCHITECT  
**Shepley Bulfinch, Boston, Massachusetts**  
**Sweet Sparkman, Sarasota, Florida**

CONTRACT GLAZIER / INSTALLER  
**Key Glass, LLC, Bradenton, Florida**

PHOTOGRAPHY  
© Ryan Gamma Photography

### Kawneer Anodize finishes

Kawneer gives you a wide variety of anodized finishes with attractive alternatives. The benefit of a durable, anodized finish is married to the beauty of some very dynamic and exciting colors.

At the start of every design, there's a choice of how you want to finish. Contact your Kawneer sales rep for the information on these and other finishes available from Kawneer.

KAWNEER FINISH NO.	COLOR	ALUMINUM ASSOCIATION SPECIFICATION	OTHER COMMENTS
	#14 CLEAR	AA-M10C21A41 / AA-M45C22A41	Architectural Class I (.7 mils minimum)
	#17 CLEAR	AA-M10C21A31	Architectural Class II (.4 mils minimum)
	#18 CHAMPAGNE	AA-M10C21A44	Architectural Class I (.7 mils minimum)
	#26 LIGHT BRONZE	AA-M10C21A44	Architectural Class I (.7 mils minimum)
	#28 MEDIUM BRONZE	AA-M10C21A44	Architectural Class I (.7 mils minimum)
	#40 DARK BRONZE	AA-M10C21A44 / AA-M45C22A44	Architectural Class I (.7 mils minimum)
	#29 BLACK	AA-M10C21A44	Architectural Class I (.7 mils minimum)



## Technical Data Sheet

# **DOWSIL™ 795 Silicone Building Sealant**

Neutral, one part silicone sealant

### **Features & Benefits**

- Suitable for most new construction and remedial sealing applications
- Versatile – high performance structural glazing and weather sealing from a single product
- Available in 15 standard colors; custom colors also available
- Excellent weatherability virtually unaffected by sunlight, rain, snow, ozone and temperature extremes of -40°F (-40°C) to 300°F (149°C)
- Excellent unprimed adhesion to a wide variety of construction materials and building components, including anodized, alodined, most coated and many Kynar painted aluminums
- Ease of application – ready to use as supplied
- Ease of use – all temperature gunnability, easy tooling and low-odor cure byproduct
- Meets global standards (Americas, Asia and Europe)

### **Composition**

- One-part, neutral cure, RTV silicone sealant

### **Applications**

- Structural and nonstructural glazing
- Structural attachment of many panel systems
- Panel stiffener applications
- Weather sealing of most common construction materials including glass, aluminum, steel, painted metal, EIFS, granite and other stone, concrete, brick and plastics

### **Typical Properties**

Specification Writers: These values are not intended for use in preparing specifications.

Test <sup>1</sup>	Property	Unit	Result
<b>As Supplied</b>			
ASTM C 679	Tack Free Time, 50% RH	hours	3
	Curing Time at 25°C (77°F) and 50% RH	days	7–14
	Full Adhesion	days	14–21
ASTM C 639	Flow, Sag or Slump	inches (mm)	0.1 (2.54)
	Working Time	minutes	20–30
	VOC Content <sup>2</sup>	g/L	32

1. ASTM: American Society for Testing and Materials
2. Based on South Coast Air Quality Management District of California. Maximum VOC is listed both inclusive and exclusive of water and exempt compounds.

UNRESTRICTED – May be shared with anyone

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DOWSIL™ 795 Silicone Building Sealant

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Form No. 61-885-01 T (AMERICAS)

## Typical Properties (Cont.)

Test	Property	Unit	Result
<b>As Cured After 21 days at 25°C (77°F) and 50% RH</b>			
ASTM D 2240	Durometer Hardness, Shore A	points	35
ASTM C 794	Peel Strength	lb/in (kg/cm)	32 (5.7)
	Tension Adhesion Strength		
ASTM C 1135	At 25% Extension	psi (MPa)	45 (0.310)
	At 50% Extension	psi (MPa)	60 (0.414)
ASTM C 719	Joint Movement Capability	percent	± 50
ASTM C 1248	Staining (granite, marble, limestone, brick and concrete)		None
<b>As Cured After 21 days at 25°C (77°F) and 50% RH Followed by 10,000 Hours in a QUV Weatherometer, ASTM G 53</b>			
	Tensile Adhesion Strength		
ASTM C 1135	At 25% Extension	psi (MPa)	35 (0.241)
	At 50% Extension	psi (MPa)	50 (0.345)

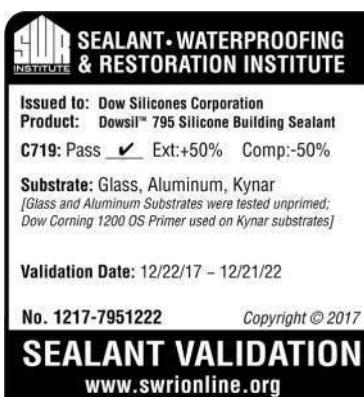
### Description

DOWSIL™ 795 Silicone Building Sealant is a one-part, neutral-cure, architectural-grade sealant that easily extrudes in any weather and cures quickly at room temperature. This cold-applied, non-sagging silicone material cures to a medium modulus silicone rubber upon exposure to atmospheric moisture. The cured sealant is durable and flexible enough to accommodate ± 50 percent movement of original joint dimension when installed in a properly designed weather seal joint. In a properly designed structurally glazed joint, the sealant is strong enough to support glass and other panel materials under high wind load.

### Approvals/ Specifications

DOWSIL™ 795 Silicone Building Sealant meets the requirements of:

- Federal Specification TT-S 001 543A (COM-NBS) Class A for silicone building sealants
- Federal Specification TT-S-00230C (COM-NBS) Class A for one-part building sealants
- ASTM Specification C 920 Type S, Grade NS, Class 50, Use NT, G, A and O
- ASTM Specification C 1184 for structural silicone sealants
- Canadian Specification CAN2-19.13- M82



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## **Colors**

DOWSIL™ 795 Silicone Building Sealant is available in 15 colors: white, limestone, champagne, natural stone, gray, black, bronze, sandstone, adobe tan, dusty rose, rustic brick, blue spruce, anodized aluminum, charcoal, and ivy green. Custom colors may be ordered to match virtually any substrate.

## **How To Use**

Please consult the *Dow Americas Technical Manual*, Form No. 62-1112, for detailed information on state-of-the-art application methods and joint design.

### **Preparation**

Clean all joints, removing all foreign matter and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants or glazing compounds and protective coatings.

### **Application Method**

Install backing material or joint filler, setting blocks, spacer shims and tapes. Mask areas adjacent to joints to ensure neat sealant lines. Primer is generally not required on non-porous surfaces, but may be necessary for optimal sealing of certain porous surfaces. A test placement is always recommended. Apply DOWSIL™ 795 Silicone Building Sealant in a continuous operation using positive pressure. (The sealant can be applied using many types of air-operated guns and most types of bulk dispensing equipment.) Before a skin forms (typically within 15 minutes), tool the sealant with light pressure to spread the sealant against the backing material and joint surfaces. Remove masking tape as soon as the bead is tooled.

## **Handling Precautions**

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

## **Usable Life And Storage**

When stored at or below 27°C (80°F), DOWSIL™ 795 Silicone Building Sealant has a shelf life of 12 months from the date of manufacture. Refer to product packaging for "Use By Date."

## **Packaging Information**

DOWSIL™ 795 Silicone Building Sealant is supplied in 10.3 fl oz. (305 mL) disposable plastic cartridges that fit ordinary caulking guns, 20 fl oz. (590 mL) sausages and 2 and 4.5 gal (7.5 and 17 L) bulk containers.

## **Limitations**

DOWSIL™ 795 Silicone Building Sealant should not be used:

- In structural applications without prior review and approval by your local sales application engineer
- In below grade applications
- When surface temperatures exceed 50°C (122°F) during installation
- On surfaces that are continuously immersed in water
- On building materials that bleed oils, plasticizers or solvents that may affect adhesion
- On frost laden or wet surfaces
- In totally confined joints (the sealant requires atmospheric moisture for cure)
- If the sealant is intended to be painted (paints do not typically adhere to most silicone sealants)
- To surfaces in direct contact with food or other food-grade applications

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DOWSIL™ 795 Silicone Building Sealant

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## **Limitations (Cont.)**

## **Health And Environmental Information**

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, [dow.com](http://dow.com) or consult your local Dow representative.

dow.com

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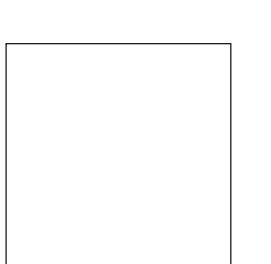


## Sealant Color Selection Guide

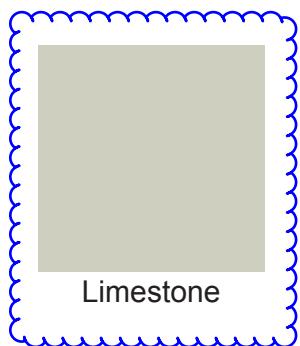
- Please check the availability of the different colors.
- Please refer to product literature for applications and technical information.

*The colors shown are a close approximation of the actual sealant colors. However, for best results, submit color samples or swatches to our lab for color testing and matching.*

### Standard Colors



White



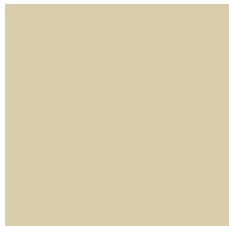
Limestone



Gray



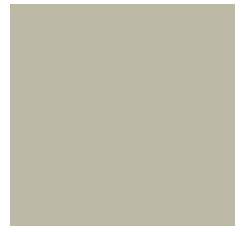
Window Bronze



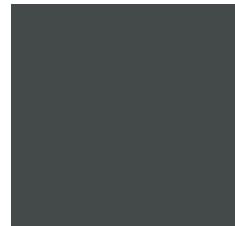
Sandstone



Aluminum



Antique White



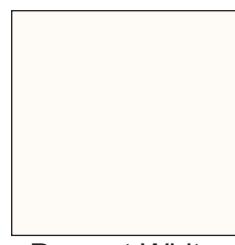
Charcoal



Black



Bronze



Precast White

# **FillPro™ Open Cell**

## Polyurethane Foam Backer Rod



FillPro Open Cell Backer Rod (formerly Tundra Foam) is a pliable open cell polyurethane foam material used for filling irregular joints. It is chemically inert and will resist oil, gasoline and most other solvents. The material will not stain, or adversely adhere to sealant or caulking materials.

## APPLICATIONS

Commonly used in expansion and contraction joints, window glazing, curtain wall construction partitions, precast assemblies and copings, parking decks, bridge construction, etc.

## BENEFITS

FillPro Open Cell is an ideal non-gassing backer rod used to control sealant and caulking depth and create a back stop to allow proper sealant tooling and configuration, to allow proper sealant airing and to yield a proper bond break between backup material and sealant. Limiting the depth of the sealant prevents excessive use, saving on caulk or sealant. Compressibility is ideal for non-uniform joint sizes.

## INSTALLATION

The joint depth must be great enough to allow for the proper installation of the FillPro Open Cell backer rod and the hot or cold sealant or caulking material. Joint walls must be smooth, even and be free of any loose materials. Joints should also be dry and frost free. With a correctly-sized tool or by hand, insert FillPro Open Cell rod into joint at a level recommended by the sealant manufacturer. Cold applied sealants generally recommend that the depth of the joint after the backer rod is installed be one half the width. In hot pour applications, it is generally recommended the depth of the joint be a 1:1 of backer rod to sealant.

### Features:

- Open cell
- Highly compressible for easy installation in irregular joints
- Chemically inert
- Resistant to oil, gas and other solvents
- Made in Canada

### Compatible With:

- Virtually all known hot pour and cold applied sealant including silicone and rubber asphalt

### Stocked Options:

- Available in black or yellow
- Available in a wide of sizes  
(See reverse side)

## Technical Data: FillPro™ Open Cell Backer Rod (Formerly Tundra Foam)

**Description:** Flexible, open cell polyurethane foam backer rod in continuous coils.

### Typical Properties

Property	Value	Test Methods
Density (nominal)	1.7 lbs/cu.ft	ASTM D1622
Outgassing (# of bubbles)	0	ASTM C1253
Tensile Strength psi (kPa)	25 lbs maximum	ASTM D3575
Compression Recovery, %, min	> 98	ASTM D5249
Compression Deflection psi (kPa)	1.4	ASTM D5249
Temperature Range	-60°F to 500°F	-
Elongation	75% min	ASTM D3574
Compression Set @ 90%	15% (max)	ASTM C3574

### Sizes

Diameter	Sleeves / Pk	Bags / Sleeve	Feet Per Bag	Feet Per Sleeve	Feet / 6 Pk	Metric Diameter	Meters / Sleeve
3/8"	6	4	750	3000	18000	9 mm	914
5/8"	6	4	500	2000	12000	15 mm	609
7/8"	6	2	525	1050	6300	22 mm	320
1-1/8"	6	2	300	600	3600	28 mm	182
1-1/2"	6	2	175	350	2100	38 mm	106
2"	6	2	100	200	1200	50 mm	60

Size and lengths per pack are those at time of packaging and may vary with climatic condition after manufacture.

**One size fits many joints, though 25 to 50% larger is a good basis for a tight seal.**

### Shipping Information

- Sold in soft, compressed bundles, containing (6) packs.
- Each 6-pack measures approximately 24" x 24" x21" and has a circumference or girth measurement of approximately 108". Some carriers have maximum girth restrictions.
- Typically, 1 skid will hold (8) 6-packs.
- 6-pack weighs 60 lbs. (27kgs)



### Armacell Canada Inc.

153 Van Kirk Drive  
Brampton, ON L7A 1A4  
TOLL FREE: 800-387-3847 ext. 161401  
TEL: 905.846.3666  
Fax: 905.846.0363

Web: [www.armacell.us](http://www.armacell.us)

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**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.4 Action Submittals  
C. Shop Drawings

(See Section 084113; 1.4 Action Submittals; C. Shop Drawings)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.4 Action Submittals  
D. Samples for Initial Selection

(Samples are on order and will be delivered under a separate transmittal)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.4 Action Submittals  
E. Samples for Verification

(Samples are on order and will be delivered under a separate transmittal)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.4 Action Submittals  
F. Fabrication Sample

(To be delivered under a separate transmittal)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.4 Action Submittals  
G. Delegated-Design Submittal

(Calculations booklet will be submitted after shop drawings approval)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.5 Informational Submittals  
A. Sustainable Design Submittal



To: PERFORMANCE GLASS & ALUM  
Date: 5/1/2020  
Subject: LEED v4 Kawneer Information and Documentation

Dear Lucas Glider,

In recognition of the U.S. Green Building Council's (USGBC) LEED v4 Building Rating System, Kawneer has the ability to provide products that can apply toward multiple credit categories, along with supporting documentation. Please see the information below to help you achieve LEED building certification. Supporting documentation including high recycled content information, will only be assured to the extent that the content is expressly specified in a Kawneer Material Proposal issued for your particular project (as identified by project number), and in a corresponding Kawneer-accepted Purchase Order.

#### LEED v4 Building Design & Construction

- Energy & Atmosphere
  - Optimize Energy Performance
  - Renewable Energy Production
- Materials & Resource
  - Building Disclosure and Optimization – Environmental Product Declarations
    - Option 1: Environmental Product Declarations (EPDs) - Kawneer has an EPD that is applicable for each of our products. Kawneer EPDs used the new Window Product Category Rule (PCR) specifically for use in North America and our EPDs have been third-party validated. Please visit the Kawneer Sustainability [Product Transparency page](#) for the current version.
  - Building Disclosure and Optimization – Sourcing Raw Material
    - Option 1: Raw Material Source and Extraction Reporting – Arconic publishes a self-declared annual sustainability report that follows the Global Reporting Initiative (GRI). The current version can be found on the [Arconic Sustainability Report page](#).
    - Option 2: Recycled Content – High recycled content extrusions will be supplied with a minimum of 50% recycled content achieved through a combination of pre-consumer and post-consumer recycled content; or as specified on Kawneer's Material Proposal. Recycled content may range from 50-70%. Project specific documentation will be sent once the product has been shipped, but a sample of our LEED Materials Reporting Form for recycled content is attached.
      - ❖ Please note that design professionals should be cautioned to be consistent in application when specifying anodized finishes where high-recycled content is required. The chemistry of secondary billet causes the anodized finish of an extrusion to look different than a similar extrusion made from prime billet. This different appearance would typically relate to gloss level of the finish and/or streaks or die lines. Kawneer suggests that anodized aluminum made from secondary billet not be used on or near anodized aluminum products made from primary billet due to these finish variations.
  - Building Disclosure and Optimization – Material Ingredients
    - Option 1: Material Ingredient Reporting – Kawneer has a variety of applicable programs that report chemical inventory information and comply with LEED requirements, including: Cradle-to-Cradle, DECLARE and Kawneer's Manufacturers Inventory known as the Material Transparency Summary; many of which are LBC compliant and Red List free. Please visit the Kawneer Sustainability [Product Transparency page](#) for the current version.
    - Option 2: Material Ingredient Optimization – Kawneer has several products that have a Cradle-to-Cradle Silver Level Material Health Certificate eligible for this credit option. Please visit the Kawneer Sustainability [Product Transparency page](#) for the current version.



- PBT Source Reduction – Specifying anodized finish will avoid lead or cadmium that can be found in paints and comply with this credit. Attached is documentation that outlines paint offerings for Kawneer products that also comply and do not contain lead or cadmium.
- Construction & Demolition Waste Management
  - Option 1: Diversion – Aluminum is 100% recyclable and is accepted in majority of areas so it's easy for the construction team to divert from landfill.
  - Option 2: Reduction of Total Waste Material – Kawneer has systems that can be prefabricated which helps to reduce waste at the construction site.
- Indoor Environmental Quality
  - Thermal Comfort – Specifying Kawneer operable windows can help naturally condition spaces as one method to help achieve the options for this credit.
  - Daylight – Kawneer products are a great way to provide daylight into the building, but Kawneer sunshades also help to reduce glare and the Kawneer light shelf helps to reflect daylight deeper into the interior occupied space enhancing natural light.
  - Quality Views – All Kawneer products provide a window to the outdoors and can help achieve views of the surrounding natural environment.
  - Acoustic Performance – All Kawneer products have a sound transmission class (STC) rating that can be found on the product specification; be sure to check the STC when specifying products.

For more information, please go to the [Sustainability](#) page at Kawneer.com. This provides an overview of Kawneer's current capabilities, commitment to sustainable practices and support for the USGBC's LEED Building Rating System. Please note that this page may be updated from time to time. You should always be in contact with your Kawneer Sales Representative during your project planning or bidding phase, to make sure you are working with the most up-to-date information possible.

Sincerely,

*Andy Nag*

Andy Nag  
Director, Customer Operations  
[KCIArchitecturalServices@arconic.com](mailto:KCIArchitecturalServices@arconic.com)

## Recycled Content Reporting Form

For use on LEED and additional green building certifications referencing product recycled content

Project Name:

## Project Location:

Date Prepared:

Customer:

Prepared By:

- 1 -

KAWNEER



AN ARCONIC COMPANY

- NOTES:**

1. Post-Consumer and Pre-Consumer Recycled Content defined by current USGBC LEED Reference Guide for Green Building Design and Construction

1.2. Point of Recovery is recognized as the location of the aluminum cast house providing recycled content raw material.

2. Point of Recovery

3. None of the products listed above are recognized as reused, salvaged, rapidly renewable, or FSC-certified materials.

Manufacturer's Certification:

The undersigned does hereby certify that the material information contained herein is an accurate representation of the material provided by Kawneer Company Inc.

Signature of Kawneer Representative:

The LEED green building rating system -- developed and administered by the U.S. Green Building Council, a Washington D.C.-based nonprofit coalition of building industry leaders -- is designed to promote design and construction practices that increase profitability while reducing the negative environmental impacts of buildings and improving occupant health and well-being.

**(NO MTS) LEED v4 BD+C Materials & Resources Reporting Form****INSTRUCTIONS**

Enter Project Information Data:

- 1: Project Name
- 2: Select Product from drop down list
- 3: Project Location (City, State)
- 4: Customer Name
- 5: Date Prepared
- 6: Prepared By

**SAMPLE**

## (NO MTS) LEED v4 BD+C Materials & Resources Reporting Form

### PROJECT INFORMATION

Project Name: \_\_\_\_\_  
Product: \_\_\_\_\_  
Project Location: \_\_\_\_\_ Customer: \_\_\_\_\_  
Date Prepared: \_\_\_\_\_ Prepared By: \_\_\_\_\_

### CREDIT DETAILS

#### MR BPDO - Environmental Product Declarations (EPD)

- This product complies with **Option 1 - Environmental Product Declaration**

Name of EPD Program Operator: UL Environment

EPD Type:  Type III Product Specific     Industry Wide (generic)     LCA Product Specific

A summary of the product EPD & full EPD document verifying compliance can be found online.

- This product complies with **Option 2 - Multi-Attribute Optimization**

A summary of optimization and documentation verifying compliance can be found online.

#### MR BPDO - Sourcing of Raw Materials

- This product complies with **Option 1 - Raw Material Source and Extraction Reporting**

Corporate Sustainability Report Type:  Manufacture Self-Declared     Third-Party Verified

- This product complies with **Option 2 - Leadership Extraction Practices**

Type of Extraction Practice:  Extended Producer Responsibility Percent:

Bio-based Materials Percent:     Material Reuse Percent Salvaged or Reused:

Recycled Content\* - when requested

Percent Pre-Consumer: 50%

Percent Post-Consumer: 0%

Wood Products:

Percent FSC:

\*Project specific recycled content is provided once the product has been shipped.

#### MR BPDO - Material Ingredients

- This product complies with **Option 1 - Material Ingredient Reporting**

Type of Material Ingredient Reporting:  Manufacture Inventory     Health Product Declaration

Cradle to Cradle v3 Bronze or Higher

Declare Label

A summary of the product documentation verifying compliance can be found online.

- This product complies with **Option 2 - Material Ingredient Optimization**

Type of Optimization:  GreenScreen Benchmark

Cradle to Cradle v3 Silver or higher

**(MTS ONLY) LEED v4 BD+C Materials & Resources Reporting Form****INSTRUCTIONS**

Enter Project Information Data:

- 1: Project Name
- 2: Select Product from drop down list
- 3: Project Location (City, State)
- 4: Customer Name
- 5: Date Prepared
- 6: Prepared By

**SAMPLE**

## (MTS ONLY) LEED v4 BD+C Materials & Resources Reporting Form

### PROJECT INFORMATION

Project Name: \_\_\_\_\_  
Product: \_\_\_\_\_  
Project Location: \_\_\_\_\_ Customer: \_\_\_\_\_  
Date Prepared: \_\_\_\_\_ Prepared By: \_\_\_\_\_

### CREDIT DETAILS

#### MR BPDO - Environmental Product Declarations (EPD)

- This product complies with **Option 1 - Environmental Product Declaration**

Name of EPD Program Operator: UL Environment

EPD Type:  Type III Product Specific     Industry Wide (generic)     LCA Product Specific

A summary of the product EPD & full EPD document verifying compliance can be found online.

- This product complies with **Option 2 - Multi-Attribute Optimization**

A summary of optimization and documentation verifying compliance can be found online.

#### MR BPDO - Sourcing of Raw Materials

- This product complies with **Option 1 - Raw Material Source and Extraction Reporting**

Corporate Sustainability Report Type:  Manufacture Self-Declared     Third-Party Verified

- This product complies with **Option 2 - Leadership Extraction Practices**

Type of Extraction Practice:  Extended Producer Responsibility Percent:

Bio-based Materials Percent:     Material Reuse Percent Salvaged or Reused:

Recycled Content\* - when requested

Percent Pre-Consumer: 50%

Percent Post-Consumer: 0%

Wood Products:

Percent FSC:

\*Project specific recycled content is provided once the product has been shipped.

#### MR BPDO - Material Ingredients

- This product complies with **Option 1 - Material Ingredient Reporting**

Type of Material Ingredient Reporting:  Manufacture Inventory     Health Product Declaration

Cradle to Cradle v3 Bronze or Higher

Declare Label

A summary of the product documentation verifying compliance can be found online.

- This product complies with **Option 2 - Material Ingredient Optimization**

Type of Optimization:  GreenScreen Benchmark

Cradle to Cradle v3 Silver or higher

**(MTS DECLARE) LEED v4 BD+C Materials & Resources Reporting Form****INSTRUCTIONS**

Enter Project Information Data:

- 1: Project Name
- 2: Select Product from drop down list
- 3: Project Location (City, State)
- 4: Customer Name
- 5: Date Prepared
- 6: Prepared By

**SAMPLE**

## (MTS DECLARE) LEED v4 BD+C Materials & Resources Reporting Form

### PROJECT INFORMATION

Project Name: \_\_\_\_\_  
Product: \_\_\_\_\_  
Project Location: \_\_\_\_\_ Customer: \_\_\_\_\_  
Date Prepared: \_\_\_\_\_ Prepared By: \_\_\_\_\_

### CREDIT DETAILS

#### MR BPDO - Environmental Product Declarations (EPD)

- This product complies with **Option 1 - Environmental Product Declaration**

Name of EPD Program Operator: UL Environment

EPD Type:  Type III Product Specific     Industry Wide (generic)     LCA Product Specific

A summary of the product EPD & full EPD document verifying compliance can be found online.

- This product complies with **Option 2 - Multi-Attribute Optimization**

A summary of optimization and documentation verifying compliance can be found online.

#### MR BPDO - Sourcing of Raw Materials

- This product complies with **Option 1 - Raw Material Source and Extraction Reporting**

Corporate Sustainability Report Type:  Manufacture Self-Declared     Third-Party Verified

- This product complies with **Option 2 - Leadership Extraction Practices**

Type of Extraction Practice:  Extended Producer Responsibility Percent:

Bio-based Materials Percent:     Material Reuse Percent Salvaged or Reused:

Recycled Content\* - when requested

Percent Pre-Consumer: 50%

Percent Post-Consumer: 0%

Wood Products:

Percent FSC:

\*Project specific recycled content is provided once the product has been shipped.

#### MR BPDO - Material Ingredients

- This product complies with **Option 1 - Material Ingredient Reporting**

Type of Material Ingredient Reporting:  Manufacture Inventory     Health Product Declaration

Cradle to Cradle v3 Bronze or Higher

Declare Label

A summary of the product documentation verifying compliance can be found online.

- This product complies with **Option 2 - Material Ingredient Optimization**

Type of Optimization:  GreenScreen Benchmark

Cradle to Cradle v3 Silver or higher

---

**(C2C) LEED v4 BD+C Materials & Resources Reporting Form****INSTRUCTIONS**

Enter Project Information Data:

- 1: Project Name
- 2: Select Product from drop down list
- 3: Project Location (City, State)
- 4: Customer Name
- 5: Date Prepared
- 6: Prepared By

**SAMPLE**

## (C2C) LEED v4 BD+C Materials & Resources Reporting Form

### PROJECT INFORMATION

Project Name: \_\_\_\_\_  
Product: \_\_\_\_\_  
Project Location: \_\_\_\_\_ Customer: \_\_\_\_\_  
Date Prepared: \_\_\_\_\_ Prepared By: \_\_\_\_\_

### CREDIT DETAILS

#### MR BPDO - Environmental Product Declarations (EPD)

- This product complies with **Option 1 - Environmental Product Declaration**

Name of EPD Program Operator: UL Environment

EPD Type:  Type III Product Specific     Industry Wide (generic)     LCA Product Specific

A summary of the product EPD & full EPD document verifying compliance can be found online.

- This product complies with **Option 2 - Multi-Attribute Optimization**

A summary of optimization and documentation verifying compliance can be found online.

#### MR BPDO - Sourcing of Raw Materials

- This product complies with **Option 1 - Raw Material Source and Extraction Reporting**

Corporate Sustainability Report Type:  Manufacture Self-Declared     Third-Party Verified

- This product complies with **Option 2 - Leadership Extraction Practices**

Type of Extraction Practice:  Extended Producer Responsibility Percent:

Bio-based Materials Percent:     Material Reuse Percent Salvaged or Reused:

Recycled Content\* - when requested

Percent Pre-Consumer: 50%

Percent Post-Consumer: 0%

Wood Products:

Percent FSC:

\*Project specific recycled content is provided once the product has been shipped.

#### MR BPDO - Material Ingredients

- This product complies with **Option 1 - Material Ingredient Reporting**

Type of Material Ingredient Reporting:  Manufacture Inventory     Health Product Declaration

Cradle to Cradle v3 Bronze or Higher

Declare Label

A summary of the product documentation verifying compliance can be found online.

- This product complies with **Option 2 - Material Ingredient Optimization**

Type of Optimization:  GreenScreen Benchmark

Cradle to Cradle v3 Silver or higher



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.5 Informational Submittals  
B. Preconstruction Sealant Adhesion and Compatibility Testing

(N/A)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.5 Informational Submittals  
C. Qualification Data



**Date:** 5/1/2020

**Customer:** PERFORMANCE GLASS & ALUM  
11111 ROJAS  
EL PASO TX, 79935

**RE:** UT-Seay Building Addition

To Whom It May Concern:

This letter is to confirm that PERFORMANCE GLASS & ALUM, is a Kawneer customer. (PERFORMANCE GLASS & ALUM has purchased architectural products and systems from Kawneer and has been a customer since 9/24/2003 ).

Fabrication and installation instructions for Kawneer systems are available to Kawneer customers. Installation and fabrication training classes are available to the employees of Kawneer customers. *Kawneer is not an installer and does not approve or certify its customers or any other parties as installers and does not approve or certify installations.*

It is the customer's responsibility to ensure the Kawneer products and systems are fabricated and installed properly by customer's employees or subcontractors in accordance with Kawneer's published installation instructions. Refer to Kawneer Standard Warranty Terms and Conditions of sale for details. Kawneer Company, Inc. disclaims all liabilities for, and is not responsible or liable for any damages or costs that may result from improper installation of its products.

Kawneer Company, Inc.

Andy Nag

Director, Customer Operations

Project Name: UT Austin – Seay Building Addition  
Contractor: SpawGlass  
Regarding: Section 084413 – Paragraph 1.5, Section C – Qualification Data

To whom it may concern,

Established in 1978, The Glass House, Inc. is an El Paso-based commercial glazing contractor recognized for superior glass installation throughout west Texas and southern New Mexico.

Operating from a 16,000 square foot fabrication facility, our projects range in scope from select residential properties to large-scale retail and industrial centers including primary schools, universities, medical research facilities, hospitals, municipal and federal government buildings, military facilities, and jails. We fabricate and install aluminum doors, frames, door hardware, storefronts, curtain walls and architectural glass products and can meet specific requirements like bullet resistance and blast mitigation.

For every Glass House project, we use top quality products including Kawneer, Tubelite and YKK architectural aluminum systems and Vitro, Guardian and Pilkington glazing products.

From standard installations to custom orders our team of over 50 professional and dedicated personnel ensure that jobs are executed to specification and in a timely manner. We also participate in the U.S. Department of Labor certified apprenticeship training program and AGC/OSHA approved safety training program.

Let us put our 42 years of experience work for you.

Robert Alvarez  
Project Engineer

The Glass House, Inc.  
El Paso, TX 79935  
915.592.5583 ph.  
915.592.5770 fax  
[ralvarez@glasshousetexas.com](mailto:ralvarez@glasshousetexas.com)  
[www.glasshousetexas.com](http://www.glasshousetexas.com)





**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.5 Informational Submittals  
D. Energy Performance Certificates

## 11.0 CERTIFICATE OF COMPLIANCE

### Certificate Authorization

Name:

Signature:

OVERALL RATING	
U-Factor: (Btu/h•ft <sup>2</sup> •°F)	
SHGC:	

**Directions:** Fill out form completely. Determine the Overall Rating for this project by using the C.O.G. U-Factor and C.O.G. SHGC from Table 1 and looking up the overall rating from Table 2. Indicate the Overall Rating in the space above. Linear interpolation is permitted.

Company:

Date:

CERTIFIES THAT THE MATERIALS LISTED ON THIS CERTIFICATE WERE INSTALLED ON THE PROJECT IDENTIFIED

#### PROJECT INFORMATION:

#### UT Austin - Seay Building Addition

Street Address:

108 E. Dean Keeton

City:

Austin

State:

TX

Zip:

78712

#### GLAZING CONTRACTOR / INSTALLER:

#### Performance Glass & Aluminum

Street Address:

501 W. Powell, Ste. 211

City:

Austin

Contact Person:

Lucas Glider

Phone Number:

512-632-4656

State:

TX

Zip:

78753

#### GLAZING MATERIAL SUPPLIER:

#### Oldcastle Building Envelope

Street Address:

1101 Fountain Parkway

City:

Grand Prairie

Glass and Spacer Type:

Contact Person:

Diane Lacy

Phone Number:

469-348-2950

State:

TX

Zip:

75050

Center-of-glass (C.O.G.) U-factor:

Center-of-glass (C.O.G.) SHGC:

Btu/h•ft<sup>2</sup>•°F

TABLE 1 – GLAZING

#### FRAMING MATERIAL SUPPLIER:

#### Kawneer Company

Street Address:

710 Gateway, Ste. 140

City:

Coppell

Contact Person:

Steve Kesterson

Phone Number:

972-829-7160

State:

TX

Zip:

75019

Product Line:

#### 1600 Wall System 1

The overall ratings for U-factor and SHGC are based on a size of 2000 mm x 2000 mm (78.75 in x 78.75 in) as required in NFRC 100.

Overall U-factors and Solar Heat Gain Coefficients (SHGC) listed in the matrix were determined in accordance with NFRC 100 and NFRC 200 respectively by a NFRC accredited laboratory.

#### ACCREDITED LABORATORY:

#### Architectural Testing

Reference Test Report #:

84605.02-116-45

TABLE 2 – FRAMING

#### U-factor Matrix (Btu/h•ft<sup>2</sup>•°F)

#### SHGC Matrix

C.O.G. U-factor	OVERALL U-factor	C.O.G. SHGC	OVERALL SHGC
0.48	.61	0.75	.69
0.46	.60	0.70	.64
0.44	.58	0.65	.60
0.42	.56	0.60	.55
0.40	.55	0.55	.51
0.38	.53	0.50	.46
0.36	.51	0.45	.42
0.34	.50	0.40	.37
0.32	.48	0.35	.33
0.30	.47	0.30	.28
0.28	.45	0.25	.24
0.26	.43	0.20	.20
0.24	.42	0.15	.15
0.22	.40	0.10	.11
0.20	.38	0.05	.06



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.5 Informational Submittals  
E. Product Test Reports



**NFRC U-FACTOR, SHGC / VT,  
CONDENSATION RESISTANCE  
COMPUTER SIMULATION REPORT**

**Rendered to:  
KAWNEER COMPANY, INC.**

**SERIES/MODEL: 1600 System 1**

**Report No.: 84605.02-116-45  
Original Report Date: 07/18/08**



**NFRC U-FACTOR, SHGC / VT, CONDENSATION RESISTANCE  
COMPUTER SIMULATION REPORT**

Rendered to:  
KAWNEER COMPANY, INC.  
555 Guthridge Court  
Norcross, Georgia 30092

Report No.: 84605.02-116-45  
Simulation Date: 07/17/08  
Original Report Date: 07/18/08

**Project Summary:** Architectural Testing, Inc. (ATI) was contracted to perform U-Factor, Solar Heat Gain Coefficient, Visible Transmittance, and Condensation Resistance\* computer simulations in accordance with the National Fenestration Rating Council (NFRC). The products were evaluated in full compliance with NFRC requirements to the standards listed below.

*\*NFRC's Condensation Resistance rating is NOT equivalent to a Condensation Resistance Factor (CRF) determined in accordance with AAMA 1503.*

**Standards:**

- NFRC 100-2004: *Procedure for Determining Fenestration Product U-Factors*  
NFRC 200-2004: *Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence*  
NFRC 500-2004: *Procedure for Determining Fenestration Product Condensation*

**Software:**

- Frame and Edge Modeling: THERM 5.2.14  
Center-of-Glass Modeling: WINDOW 5.2.17  
Total Product Calculations: WINDOW 5.2.17  
Spectral Data Library: 16.1

**Simulation Specimen Description:**

- Series/Model: 1600 System 1  
Type: Glazed Wall System (site-built)  
Frame Material: Aluminum thermally broken-All members  
Sash Material: NA  
Standard Size: 2000mm x 2000mm

**Technical Interpretations:**

None

**Modeling Assumptions:**

- 1) To prevent air infiltration, tape was applied to all interior crack locations.

**Specialty Products Table:**

The specialty products method allow the manufacturer to determine the overall product SHGC and VT for any glazing option. The center of glass SHGC and/or VT must be determined using WINDOW 5.2. The method gives overall product SHGC and VT indexed on center of glass properties.

	No Dividers	Dividers < 1	Dividers > 1
SHGC0	0.0156	0.019	0.0222
SHGC1	0.9126	0.8111	0.7158
VT0	0	0	0
VT1	0.897	0.792	0.6935

$$\text{SHGC} = \text{SHGC0} + \text{SHGCc} (\text{SHGC1} - \text{SHGC0})$$

$$\text{VT} = \text{VT0} + \text{VTc} (\text{VT1} - \text{VT0})$$

**Validation Matrix:**

The following products are part of a validation matrix. Only one is required for validation

<i>Product Line</i>	<i>Report Number</i>
None	

### Spacer Option Description

<i>Sealant</i>			
<i>Spacer Type</i>	<i>Primary</i>	<i>Secondary</i>	<i>Desiccant</i>
Standard Aluminum Spacer (A1-D)	Butyl Rubber	Butyl Rubber	Yes

### Grid Option Description

<i>Grid Size</i>	<i>Grid Type</i>	<i>Grid Pattern</i>
None	-	-

### Reinforcement Option Description

<i>Location</i>	<i>Material</i>
None	-

### Gas Filling Technique Description

<i>Fill Type</i>	<i>Method</i>
48.5% Argon	Single Probe
62.5% Argon	Single Probe
65.0% Argon	Single Probe
67% Argon	Single Probe
73.8% Argon	Single Probe
74.6% Argon	Single Probe
76% Argon	Single Probe
83% Argon	Single Probe
85.7% Argon	Single Probe
86% Argon	Single Probe
88.6% Argon	Single Probe
90.6% Krypton	Unspecified
84.5% Xenon	Dual Probe
94.6% Xenon	Unspecified

### Edge-of-Glass Construction

<i>Interior Condition</i>	EPDM Gasket
<i>Exterior Condition</i>	EPDM Gasket

### Finish

<i>Interior Condition</i>	Painted Aluminum
<i>Exterior Condition</i>	Painted Aluminum

**NFRC 100/200/500 Summary Sheet**
**Kawneer Company, Inc.**
**1600 System 1**

ID	Pane Thickness 1	Gap Width 1	Pane Thickness 2	Gap Width 2	Pane Thickness 3	Gap Width 3	Pane Thickness 4	Gap Fill	Low-e	Tint	Spacer	Grid Type
1/4" Clear / 1/4" Clear, COG U-Factor = 0.4800, COG Temperature = 43.7 °F												
1*	0.225	0.500	0.225					OT		CL	A1-D	N
U-Factor: 0.48   SHGC(N): 0.72   VT(N): 0.71   CR: 41												
1/4" Clear / 1/4" Clear, COG U-Factor = 0.4600, COG Temperature = 44.8 °F												
2*	0.225	0.500	0.225					ARG48.5		CL	A1-D	N
U-Factor: 0.46   SHGC(N): 0.65   VT(N): 0.74   CR: 41												
1/4" LOF Activ / 1/4" Clear, COG U-Factor = 0.4400, COG Temperature = 45.8 °F												
3	0.222	0.500	0.225					XEN84.5		CL	A1-D	N
U-Factor: 0.44   SHGC(N): 0.63   VT(N): 0.66   CR: 43												
1/4" AFG P630 / 1/4" Clear, COG U-Factor = 0.4200, COG Temperature = 46.8 °F												
4	0.222	0.500	0.225					ARG76		GY	A1-D	N
U-Factor: 0.42   SHGC(N): 0.55   VT(N): 0.51   CR: 43												
1/4" AFG GP120 / 1/4" Clear, COG U-Factor = 0.4000, COG Temperature = 47.9 °F												
5	0.220	0.500	0.225					ARG85.7	0.566(#2)	GY	A1-D	N
U-Factor: 0.40   SHGC(N): 0.55   VT(N): 0.18   CR: 44												
1/4" AFG B720 / 1/4" Clear, COG U-Factor = 0.3800, COG Temperature = 48.9 °F												
6	0.226	0.500	0.225					ARG83	0.471(#2)	AZ	A1-D	N
U-Factor: 0.38   SHGC(N): 0.17   VT(N): 0.14   CR: 45												
1/4" AFG GP108 / 1/4" Clear, COG U-Factor = 0.3600, COG Temperature = 50.0 °F												
7	0.220	0.500	0.225					ARG88.6	0.395(#2)	GY	A1-D	N
U-Factor: 0.36   SHGC(N): 0.11   VT(N): 0.06   CR: 46												
1/4" GVB Sunergy / 1/4" Clear, COG U-Factor = 0.3400, COG Temperature = 51.0 °F												
8	0.230	0.500	0.225					ARG73.8	0.298(#2)	LE	A1-D	N
U-Factor: 0.30   SHGC(N): 0.47   VT(N): 0.54   CR: 46												
1/4" PPG Sungate 500 / 1/4" Clear, COG U-Factor = 0.3200, COG Temperature = 52.0 °F												
9	0.223	0.500	0.225					ARG65	0.215(#2)	LE	A1-D	N
U-Factor: 0.32   SHGC(N): 0.57   VT(N): 0.66   CR: 47												
1/4" LOF Solar E / 1/4" Clear, COG U-Factor = 0.3000, COG Temperature = 53.1 °F												
10	0.233	0.500	0.225					ARG74.6	0.166(#2)	LE	A1-D	N
U-Factor: 0.30   SHGC(N): 0.12   VT(N): 0.48   CR: 48												
1/4" PPG Sungate 100 / 1/4" Clear, COG U-Factor = 0.2800, COG Temperature = 54.1 °F												
11	0.223	0.500	0.225					ARG67	0.096(#2)	LE	A1-D	N
U-Factor: 0.28   SHGC(N): 0.13   VT(N): 0.65   CR: 49												

\* Please note that these options cannot be certified per NFRC 100/200/500-2004

**NFRC 100/200/500 Summary Sheet**  
**Kawneer Company, Inc.**  
**1600 System 1**

ID	Pane Thickness 1	Gap Width 1	Pane Thickness 2	Gap Width 2	Pane Thickness 3	Gap Width 3	Pane Thickness 4	Gap Fill	Low-e	Tint	Spacer	Grid Type
1/4" Solarban 60 / 1/4" Clear, COG U-Factor = 0.2600, COG Temperature = 55.2 °F												
12	0.223	0.500	0.225					ARG62.5	0.035(#2)	LE	A1-D	N
	<b>U-Factor:</b>	<b>0.43</b>			<b>SHGC (N):</b>		<b>0.35</b>		<b>VT (N):</b>		<b>0.63</b>	<b>CR: 50</b>
1/4" Solarban 60 / 1/4" Solarban 60, COG U-Factor = 0.2400, COG Temperature = 56.3 °F												
13	0.223	0.500	0.223					ARG86	0.035(#2) / 0.035(#3)	LE	A1-D	N
	<b>U-Factor:</b>	<b>0.42</b>			<b>SHGC (N):</b>		<b>0.33</b>		<b>VT (N):</b>		<b>0.56</b>	<b>CR: 51</b>
1/4" Solarban 70XL-Strph / 1/4" Solarban 70XL-Strph, COG U-Factor = 0.2200, COG Temperature = 57.3 °F												
14*	0.223	0.500	0.223					KRY90.6	0.018(#2) / 0.018(#3)	LE	A1-D	N
	<b>U-Factor:</b>	<b>0.40</b>			<b>SHGC (N):</b>		<b>0.24</b>		<b>VT (N):</b>		<b>0.47</b>	<b>CR: 53</b>
1/4" Solarban 70XL-Strph / 1/4" Solarban 70XL-Strph, COG U-Factor = 0.2000, COG Temperature = 58.4 °F												
15*	0.223	0.500	0.223					XEN94.6	0.018(#2) / 0.018(#3)	LE	A1-D	N
	<b>U-Factor:</b>	<b>0.38</b>			<b>SHGC (N):</b>		<b>0.24</b>		<b>VT (N):</b>		<b>0.47</b>	<b>CR: 52</b>

\* Please note that these options cannot be certified per NFRC 100/200/500-2004

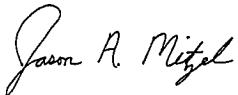
This simulation method does not include procedures to determine the Condensation Resistance due to either air movement through the specimen or solar radiation effects. As a consequence, the Condensation Resistance results obtained do not reflect performance which may be expected from field installations because they do not account for solar radiation, air leakage effects, and the thermal bridge effects that may occur due to the specific design and construction of the fenestration system opening. Therefore, it should be recognized that the Condensation Resistance results obtained from this simulation method are for controlled laboratory conditions and should only be used for fenestration product comparisons and as input to condensation resistance performance analyses, which also include solar, air leakage and thermal bridge effects.

Ratings included in this report are for submittal to an NFRC-licensed IA for certification purposes and are not meant to be used for labeling purposes. Only those values identified on a valid Certification Authorization Report (CAR) are to be used for labeling purposes.

Detailed drawings, simulation data disks, and a copy of this report will be retained by ATI for a period of four years. The above results are the exclusive property of the client so named herein and are applicable to the sample simulated. ATI is an NFRC accredited simulation laboratory and all simulations were conducted in full compliance with NFRC approved procedures and specifications. The NFRC procedure requires that the computational results be verified through actual test results. This report does not constitute an opinion or endorsement by this laboratory. This report may not be reproduced except in full without the approval of ATI.

For ARCHITECTURAL TESTING, INC.:

SIMULATED BY:



Digitally Signed by: Jason A. Mitzel

---

Jason A. Mitzel  
Simulation Technician

REVIEWED BY:



Digitally Signed by: Michael J. Thoman

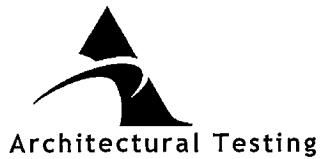
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Michael J. Thoman  
Director - Simulations and Thermal Testing  
Simulator In Responsible Charge

JAM : kmm  
84605.02-116-45

Attachments (pages):

Appendix A: Drawings and Bills of Material (3)



1447  
95438-76

84605.02-116-45  
Page 7 of 7

### Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
.02 R0	7/18/2008	All	Original Report Issue



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.5 Informational Submittals  
F. Quality-Control Program

(N/A)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.5 Informational Submittals  
G. Source Quality-Control Reports

(N/A)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.5 Informational Submittals  
H. Field Quality-Control Reports

(N/A)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 44 13  
Glazed Aluminum Curtain Walls

1.5 Informational Submittals  
I. Sample Warranties

## **LIMITED WARRANTY AND REMEDY ANODIZED FINISHES**

This is to certify that Kawneer Company, Inc. (hereinafter "Kawneer") hereby warrants to its customers and all subsequent purchasers and owners of the project incorporating Kawneer products (hereinafter "Customer(s)"), subject to every term, condition and limitation stated herein, that the anodized finishes applied to the aluminum material (hereinafter "Metal") on the project identified as:

**Job Name:** *Your Job Name Here*

**Order(s) #:** *99999999*

for a period of two (2) years for Class II finishes and five (5) years for Class I finishes from the date of substantial completion of the project, provided however, that the Limited Warranty shall begin in no event later than six (6) months from the date of shipment by Kawneer for the start of the warranty period hereunder.

- Will not change color more than five (5) DEcmc as determined per AAMA 611.
- Will not crack, blister, check or peel.

THIS LIMITED WARRANTY WILL NOT APPLY TO OR COVER, AND KAWNEER HEREBY DISCLAIMS ALL LIABILITY FOR ANY OF THE FOLLOWING:

- defects caused by depreciation or normal wear or other occurrences beyond Kawneer's control;
- damage to the finish occasioned by moisture or other contamination detrimental to the finish because of improper storage of the finished Metal prior to installation;
- water damage due to condensation caused by improper repackaging of the finished Metal prior to installation;
- damage to the finished Metal caused by handling, shipping and/or installation, or by use of the Metal with any parts, gaskets, glazing materials, components or sealants of other manufacturers used with Kawneer products, or any lack of performance of Kawneer products attributable to such items;
- damage due to finished Metal caused by exposure to caustic or acidic materials;
- any particular application or selection of the Metal for any particular project or design;
- any application of the anodized finish on any Metal that is also hardware; and
- any product which has been subject to abuse, alterations, modification, neglect, misuse, abnormal use, accident, fire, war, flood, falling objects, external forces, earthquakes, acts of God, or to which parts not supplied by Kawneer have been added.

A systematic maintenance program must be instituted by the purchaser or user to prevent the build-up of deposits on the anodized surface such as dirt and salt. The surface must be cleaned at least annually in accordance with AAMA 609 & 610 so as to prevent the accumulation of these harmful deposits. More frequent cleaning may be reasonably required in some geographical environments such as heavy industrialized or coastal areas.

**A FAILURE TO INSTITUTE AND REASONABLY EVIDENCE A SYSTEMATIC MAINTENANCE PROGRAM AS DESCRIBED ABOVE WILL VOID THIS WARRANTY.**

All decisions regarding the existence of defects in material and workmanship and the occurrence of any of the matters described in the preceding paragraphs or affecting this Limited Warranty shall be made by Kawneer and shall be final and binding upon the parties.

The sole and exclusive remedy with respect to this Limited Warranty or with respect to any other claim relating to defects or any other condition or use of the products supplied by Kawneer, however caused, and whether such claim is based upon warranty, contract, negligence, strict liability or any other theory, is limited to, at Kawneer's sole discretion, replacement or refinishing of the defective Metal or repayment by Kawneer of the purchase price paid to it. Refinishing of the defective Metal shall be performed by using standard finishing practices and materials as selected by Kawneer. Kawneer reserves the right to approve any contract for refinishing of defective Metal. The warranty on any refinished and/or replacement coated Metal shall continue for the remainder of the original warranty period. At no time does this warranty confer upon the claiming party or any other party the right to proceed with repair, replacement or restoration, without written notice and agreement by a duly authorized officer of Kawneer. Any such work undertaken by the claiming party or any other party shall be for the claiming party's own account and shall result in this warranty becoming null and void.

**IN NO EVENT SHALL KAWNEER BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO LOSS OF USE, LOSS OF PROFITS OR GOOD WILL, OR OTHER COMMERCIAL LOSS OR INJURY.**

Claims under this Limited Warranty must be made to Kawneer in writing within sixty (60) days after discovery of the defective finished Metal. Failure of the claiming party to notify Kawneer within such period shall automatically relieve Kawneer of any and all responsibility and/or liability. Kawneer must be given a reasonable opportunity to inspect the finished Metal claimed to be defective. In the event of a claim under the warranty, Customer shall furnish proof of the date of substantial completion and shall demonstrate that the failure of the product was due to a breach of the warranty stated herein.

This Limited Warranty will apply only to Metal which is supplied by Kawneer and used within North America (United States, including Hawaii, and Canada) unless Kawneer agrees otherwise in writing.

No terms or conditions other than those stated herein, and no agreement or understanding, oral or written, in any way purporting to modify this Limited Warranty shall be binding on Kawneer unless made in writing and signed by a duly authorized officer of Kawneer.

All notices given under or pursuant to this Limited Warranty shall be in writing and sent by registered mail, postage paid, return receipt requested, to the party to whom such notices are to be given, as follows:

- (a) Kawneer: Kawneer Company, Inc.  
Attn: Diana Perreiah  
555 Guthridge Court  
Norcross, GA 30092
- (b) Customer: Your Company Name  
Your Street Address  
Anytown, USA 99999-0000

All such notices as set forth above shall be considered served when received.

Customer's agreement to and acceptance of this warranty shall be indicated by signing and returning a copy of this document to Kawneer.

Kawneer Company, Inc.

Diana B. Perreiah



President, Arconic Building and Construction Systems

Date Issued: 01/01/2015

**Accepted By:**

Customer: \_\_\_\_\_

By: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date Signed: \_\_\_\_\_

## **LIMITED WARRANTY AND REMEDY MATERIAL & WORKMANSHIP**

This is to certify that Kawneer Company, Inc. or its applicable affiliate or subsidiary selling the Product ("Seller") warrants to its Customers and all subsequent purchasers and owners of the project incorporating Seller products (hereinafter "Customer(s)"), subject to every term, condition and limitation stated herein, that the products supplied by Seller on the project identified as:

**Job Name:** *Your Job Name Here*

**Order(s) #:** *99999999*

shall be free from material defect in materials and workmanship for a period of two (2) years from the date of substantial completion of the project, provided however, that the limited warranty period shall begin in no event later than six (6) months from the date of shipment by Seller for the start of the warranty hereunder.

This limited warranty ("Limited Warranty") applies only if Seller's products are installed and maintained according to Seller's recommended practices and installation instructions, and only to defects appearing within two (2) years from substantial completion of the project and only if Seller is notified in writing within sixty (60) days after such defect either (i) appears or (ii) should have been discovered after the exercise of reasonable diligence. Failure of the claiming party to notify Seller within such period shall automatically relieve Seller of any and all responsibility and/or liability under this Limited Warranty.

**THE WARRANTIES SET FORTH IN THIS LIMITED WARRANTY AND REMEDY ARE IN LIEU OF ALL OTHER REPRESENTATIONS, WARRANTIES OR OTHER AGREEMENTS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, WHICH ARE HEREBY DISCLAIMED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

In addition to Seller's standard Limited Warranty and Remedy, and applying solely and exclusively to Kawneer doors with welded corner construction, the corner construction joinery of these doors shall be free from material defects in workmanship and material for the normal, useful life of the door.

In addition to Seller's standard Limited Warranty and Remedy, and applying solely and exclusively to Kawneer Flushline doors, the corner construction joinery, core and laminate shall be free from material defects in workmanship and material for the normal, useful life of the door.

This Limited Warranty does not cover, and Seller hereby disclaims all liability for, the installation of Seller's products, any particular application or selection of the product for any particular project or design, any parts, gaskets, glazing materials, components or sealants of other manufacturers used with Seller products, or any lack of performance of Seller products attributable to such items. Seller PRODUCTS ARE PRODUCED FOR COMMERCIAL APPLICATIONS. THIS LIMITED WARRANTY DOES NOT COVER, AND SELLER HEREBY DISCLAIMS ALL LIABILITY FOR, ANY PRODUCTS USED IN RESIDENTIAL INDIVIDUAL DETACHED SINGLE FAMILY DWELLINGS, ANY PRODUCTS WHICH HAVE BEEN SUBJECT TO ABUSE, ALTERATION, NEGLECT, MISUSE, ABNORMAL USE, ACCIDENT, FIRE, WAR, FLOOD, EARTHQUAKES, ACTS OF GOD, OR TO WHICH PARTS, NOT SUPPLIED BY SELLER HAVE BEEN ADDED, OR TO DEFECTS CAUSED BY DEPRECIATION OR NORMAL WEAR. All decisions regarding the existence of defects in material and workmanship and the occurrence of any of the matters described in the preceding paragraphs or affecting this Limited Warranty shall be made by Seller and shall be final and binding upon all parties.

The sole and exclusive remedy with respect to this Limited Warranty or with respect to any other claim relating to defect or any other condition or use of the products supplied by Seller, however caused, and whether such claim is based upon breach of representation, warranty, condition, contract (fundamental or otherwise), tort (including negligence), strict liability or any other theory is limited to, at Seller's option, repair or replacement of such products or repayment by Seller of the purchase price paid for it. The remedy with respect to claims made relating to Seller Doors excludes the replacement of glass, gaskets, hardware, immediate framing, temporary enclosures or any related labor or installation costs. In no event does Seller's warranty cover the cost of labor or sundry materials required to remove and/or replace any defective product.

The products repaired, replaced or otherwise restored shall be warranted to the same extent and to the expiration date from the original date of shipment, and this Limited Warranty shall not be deemed to have been extended from the date of such warranty work. At no time does this Limited Warranty confer upon the claiming party or any other party the right to proceed with repair, replacement or restoration, without the written notice and agreement by a duly authorized officer of Seller. Any such work undertaken by the claiming party or any other party shall be for the claiming party's own account and shall result in this Limited Warranty becoming null and void.

**SELLER'S AGGREGATE TOTAL CUMULATIVE LIABILITY UNDER THIS LIMITED WARRANTY IS LIMITED TO THE DOLLAR AMOUNT OF THE PURCHASER'S ORIGINAL PAYMENT MADE TO SELLER FOR PRODUCT FURNISHED BY SELLER. IN CONSIDERATION OF THIS LIMITED WARRANTY, SELLER SHALL NOT BE LIABLE FOR SPECIAL, DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO LOSS OF USE, LOSS OF PROFITS OR GOODWILL, DAMAGES FOR NEGLIGENCE IN THE MANUFACTURE, DESIGN OR INSTALLATION OF THE PRODUCT, OR OTHER COMMERCIAL LOSS OR INJURY.**

This is the only warranty made in connection with the sale and distribution of Seller's products. No representative or any other person is authorized to make or makes any warranty, representation or promise with respect to Seller's products. No terms or conditions other than those stated herein, and no agreement or understanding, oral or written, in any way purporting to modify this warranty shall be binding on Seller unless made in writing and signed by a duly authorized officer of Seller.

Laws and building and safety codes governing the design and use of Kawneer products, such as glazed entrance, window and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware or glazing materials, and assumes no responsibility therefor.

All notices given under or pursuant to this Limited Warranty shall be in writing and sent by registered mail, postage paid, return receipt requested, to the party to whom such notices is to be given, as follows:

- (a) Kawneer: Kawneer Company, Inc.  
Attn: Warranty Dept  
555 Guthridge Court  
Norcross, GA 30092
- b) Customer: Your Company Name  
Your Street Address  
Anytown, USA 99999-0000

All such notices as set forth above shall be considered served when received.

Customer's agreement to and acceptance of this warranty shall be indicated by signing and returning a copy of this document to Kawneer.

Kawneer Company, Inc.

Diana B. Perreiah



President, Arconic Building and Construction Systems

Date Issued: 01/01/2015

**Accepted By:**

Customer: \_\_\_\_\_

By: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date Signed: \_\_\_\_\_

## **LIMITED WARRANTY AND REMEDY PAINTED FINISHES**

This is to certify that Kawneer Company, Inc. (hereinafter "Kawneer") hereby warrants to its customers and all subsequent purchasers and owners of the project incorporating Kawneer products (hereinafter "Customer(s)") subject to every term, condition and limitation stated herein, that the painted finishes applied to the aluminum material (hereinafter "Metal") on the project identified as:

**Job Name:** *Your Job Name Here*  
**Order(s) #:** *99999999*

shall comply with the scope of this Limited Warranty, during the period of time from substantial completion of the project as set forth in the table below, provided however, that the Limited Warranty shall begin in no event later than six (6) months from the date of shipment by Kawneer for the start of the warranty period hereunder. Kawneer warrants that the finish:

<b>Paint Type</b>			
<b>70% Fluoropolymer</b> (Standard Warranty ten (10) years) <sup>1</sup>	Will not chalk more than that represented by a No. 8 rating for colors or No. 6 for whites, when measured in accordance with the standard procedures specified in ASTM D 4214, Test Method A ("Excessive Chalking");	Will not change color more than five (5) Hunter Δ E units as determined by ASTM D 2244 ("Excessive Color Change").*	Will not crack, check or peel in such a way as to adversely affect the appearance of the Metal and result in damage to the Metal
<b>50% Fluoropolymer</b> (Standard Warranty five (5) years) <sup>2</sup>	Will not chalk more than that represented by a No. 6 when measured in accordance with the standard procedures specified in ASTM D 4214, Test Method A ("Excessive Chalking");	Will not change color more than seven (7) Hunter Δ E units as determined by ASTM D 2244 ("Excessive Color Change").*	Will not crack, check or peel in such a way as to adversely affect the appearance of the Metal and result in damage to the Metal
<b>Powder Paint</b> (Standard Warranty five (5) years) <sup>3</sup>	Will not chalk more than that represented by a No. 8 rating when measured in accordance with the standard procedures	Will not change color more than five (5) Hunter Δ E units as determined by ASTM D 2244 ("Excessive Color Change").*	Will not crack, check or peel in such a way as to adversely affect the appearance of the Metal and result in damage to the Metal

	specified in ASTM D 4214, Test Method A ("Excessive Chalking");		
--	-----------------------------------------------------------------	--	--

\* Metallic/mica flake colors are not color measurable and are not subject to the Excessive Color Change warranty set forth above, or any other color change warranty, express or implied.

<sup>1</sup> Maximum Extended Warranty is twenty (20) years for 70% Fluoropolymer Paint

<sup>2</sup> Maximum Extended Warranty is ten (10) years for 50% Fluoropolymer Paint

<sup>3</sup> Maximum Extended Warranty is ten (10) years for Powder Paint

**THIS LIMITED WARRANTY WILL NOT APPLY TO OR COVER, AND KAWNEER HEREBY DISCLAIMS ALL LIABILITY FOR THE FOLLOWING:**

- damage to the finish occasioned by moisture or other contamination detrimental to the finish because of improper storage of the finished Metal prior to installation;
- failure to properly protect the installed finished Metal during the construction process;
- water damage due to condensation caused by improper repackaging of the finished Metal prior to installation;
- damage including but not limited to scratches and abrasions to the finished Metal caused by use, handling, shipping and/or installation, or by utilization of the Metal with any parts, gaskets, glazing materials, components or sealants of other manufacturers used with Kawneer products or any lack of performance of Kawneer products attributable to such items;
- damage to finished Metal caused by exposure to caustic agents, acidic agents, or harmful fumes or other destructive and/or foreign materials;
- damage due to improper maintenance e.g. the use of chemical cleaning agents, or applicators;
- corrosion of the Metal due to aggressive atmospheres including exposure to salt spray and/or salt mist;
- any particular application or selection of the Metal for any particular project or design;
- any product which has been subject to abuse, alteration, modification, neglect, misuse, abnormal use, accident, fire or other casualty or physical damage, war, flood, falling objects, external forces, earthquakes, acts of God, or to which parts not supplied by Kawneer have been added, and/or
- any defects caused by depreciation or normal wear or other occurrences beyond Kawneer's control.

A systematic maintenance program must be instituted by the Customer or user to prevent the build-up of dirt and salt deposits on the painted surface. The surface must be cleaned at least annually in accordance with AAMA 609 & 610 so as to prevent the accumulation of harmful deposits. More frequent cleaning is required in heavy industrialized environments or coastal environments. Coastal environments where salt spray or salt fog is present can be very detrimental to metal especially where the paint coating has been scratched or damaged. In coastal environments where metal is exposed to salt spray or salt fog or in heavy industrial environments, the metal surface must be cleaned at least once quarterly in accordance with AAMA 609 & 610 to prevent the accumulation of harmful deposits.

**A FAILURE TO INSTITUTE AND REASONABLY EVIDENCE A SYSTEMATIC MAINTENANCE PROGRAM AS DESCRIBED ABOVE WILL VOID THIS WARRANTY.**

Kawneer is not responsible for chalking or for fading or color changes that are less than the Excessive Chalking or Excessive Color Change referenced and warranted above. Normal weathering, such as the damaging effects of sunlight and exposure to the elements, such as

extremes of weather and atmosphere, may cause any colored surface to fade, chalk, or become soiled or stained. These changes may not be uniform if the surfaces are not equally exposed to the sun and elements. The degree to which normal weathering occurs will vary depending on the air quality, the building's location and many other factors over which Kawneer has no control. Metallic/mica flake colors are not color measurable and are not subject to the Excessive Color Change warranty set forth above, or any other color change warranty, express or implied.

All decisions regarding the existence of defects in material and workmanship and the occurrence of any of the matters described in the preceding paragraphs or affecting this Limited Warranty shall be made by Kawneer and shall be final and binding upon the parties.

The sole and exclusive remedy with respect to this Limited Warranty or with respect to any other claim relating to defects or any other condition or use of the products supplied by Kawneer, however caused, and whether such claim is based upon warranty, contract, negligence, strict liability or any other theory, is limited to, at Kawneer's sole discretion, replacement or refinishing of the defective Metal or repayment by Kawneer of the purchase price paid to it. Refinishing of the defective Metal shall be performed by using standard finishing practices and materials as selected by Kawneer. Kawneer reserves the right to approve any contract for refinishing of defective Metal. The warranty on any refinished, and/or replacement Metal shall continue for the remainder of the original warranty period. At no time does this warranty confer upon the claiming party or any other party the right to proceed with repair, replacement or restoration, without written notice and agreement by a duly authorized officer of Kawneer. Any such work undertaken by the claiming party or any other party shall be for the claiming party's own account and shall result in this warranty becoming null and void.

**IN NO EVENT SHALL KAWNEER BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO LOSS OF USE, LOSS OF PROFITS OR GOOD WILL, OR OTHER COMMERCIAL LOSS OR INJURY.**

Claims under this Limited Warranty must be made to Kawneer in writing within sixty (60) days after discovery of the defective finished Metal. Failure of the claiming party to notify Kawneer within such period shall automatically relieve Kawneer of any and all responsibility and/or liability. Kawneer must be given a reasonable opportunity to inspect the finished Metal claimed to be defective. In the event of a claim under the warranty, Customer shall furnish proof of the date of substantial completion and shall demonstrate that the failure of the product was due to a breach of the warranty stated herein.

This Limited Warranty will apply only to Metal which is supplied by Kawneer and used within North America (United States, including Hawaii, and Canada) unless Kawneer agrees otherwise in writing.

No terms or conditions other than those stated herein, and no agreement or understanding, oral or written, in any way purporting to modify this Limited Warranty shall be binding on Kawneer unless made in writing and signed by a duly authorized officer of Kawneer.

All notices given under or pursuant to this Limited Warranty shall be in writing and sent by registered mail, postage paid, return receipt requested, to the party to whom such notices is to be given, as follows:

(a) Kawneer: Kawneer Company, Inc.  
Attn: Diana Perreiah  
555 Guthridge Court  
Norcross GA 30092

(b) Customer: Your Company Name  
Your Street Address  
Anytown, USA 99999-0000

All such notices as set forth above shall be considered served when received.

Customer's agreement to and acceptance of this warranty shall be indicated by signing and returning a copy of this document to Kawneer.

Kawneer Company, Inc.

Diana B. Perreiah



President, Arconic Building and Construction Systems

Date Issued: 01/01/2015

**Accepted By:**

Customer: \_\_\_\_\_

By: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date Signed: \_\_\_\_\_

Forensic Architecture  
Exterior Envelope Consulting  
Water Infiltration Testing  
Inspection Services

[www.z6consulting.com](http://www.z6consulting.com)  
1027 Tremont Street  
Galveston, TX 77550  
Phone (409) 740-0090



## SUBMITTAL REVIEW

Submittal No.: 088000-001-R1

Description: Glazing - PD

Project Name: UT Austin - SEA

Project No.: 102-1219

- NO EXCEPTIONS TAKEN
- SUBMIT SPECIFIED ITEM(S)
- ACTION NOT REQUIRED
- EXCEPTIONS NOTED
- REVISE AND RESUBMIT
- NOT REVIEWED

Corrections and notations on Shop Drawings during this review do not relieve this Contractor from complying with the requirements of the Contract Documents. This review is only for check of general conformance with the design concept of the project and general compliance with the information given in contract documents. Contractor is responsible for confirming and coordinating all quantities and dimensions, selecting fabrication processes and techniques of construction, and performing his work in a safe manner.

BY:

DATE: 2020/08/06

Submittal Comments:



SpawGlass Contractors, Inc.  
9331 Corporate Drive  
Selma TX 78154

# TRANSMITTAL

No. 0289

PROJECT: UT Seay Building Addition

DATE: 07/31/2020

TO: BSA Lifestructures  
AL

RE: Glazing - Product Data

ATTN: Ramon Arteaga

JOB: 3018105

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
<input type="checkbox"/> Shop Drawings	<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> Approved as Submitted
<input type="checkbox"/> Letter	<input type="checkbox"/> Your Use	<input type="checkbox"/> Approved as Noted
<input type="checkbox"/> Prints	<input type="checkbox"/> As Requested	<input type="checkbox"/> Returned After Loan
<input type="checkbox"/> Change Order	<input type="checkbox"/> Review and Comment	<input type="checkbox"/> Resubmit
<input type="checkbox"/> Plans		<input checked="" type="checkbox"/> Submit
<input type="checkbox"/> Samples	<b>SENT VIA:</b>	<input type="checkbox"/> Returned
<input type="checkbox"/> Specifications	<input type="checkbox"/> Attached <input type="checkbox"/> Separate Cover	<input type="checkbox"/> Returned for Corrections
<input type="checkbox"/> Other:		<input checked="" type="checkbox"/> Due Date: 08/14/2020
<input checked="" type="checkbox"/> Submittal:		<input type="checkbox"/> Other:

Line	Item	Package	Code	Cycle	Qty	Date	Description	Status
1	Submittal		088000-001	2		07/31/2020	Glazing - Product Data	Submitted for Approval

## SpawGlass Contractors, Inc.

REVIEWED FOR COMPLIANCE

COMMENTS NOTED

REVISE AND RESUBMIT

OTHER:

DATE 7/31/2020    SPEC# 088000

REVIEWED BY tanner.hawkins

SUBMITTAL# 088000-001R1

APPROVAL DOES NOT RELIEVE THE SUBCONTRACTOR  
OR SUPPLIER OF RESPONSIBILITY FOR ACCURACY,  
COMPLETENESS, QUANTITIES, DIMENSIONS, AND  
COMPLIANCE WITH CONTRACT DOCUMENTS

## REMARKS:

Revision

CC:

Signed: Tanner Hawkins  
Tanner Hawkins



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 80 00  
Glazing

1.6 Action Submittals  
B. Product Data



## Product Comparison Chart

	Glass System	Thickness (in) / (mm)	Visible Trans (%)	Visible Refl. Out (%)	Visible Refl. In (%)	UV Trans (%)	Solar Trans. (%)	Solar Refl. Out (%)	Winter U-factor (Btu/h · ft <sup>2</sup> · F)	Winter U-factor (W/m <sup>2</sup> · K)	Shading Coeff.	Solar Heat Gain Coeff.	Light to Solar Gain
GL-2	OB: 6mm (1/4") Guardian Clear	0.221 / 5.613	89	8	8	67%	81	8	1.03	5.82	0.97	0.85	1.06
GL-6	OB: 6mm (1/4") Guardian SunGuard® SNX 62/27 on Clear Low-E #2 AS: 1/2" (Air) IB: 6mm (1/4") Guardian Clear with OPACI-COAT-300® #4 Color: #3-4669 Clam Digging	0.942 / 23.926	N/A	N/A	N/A	N/A	N/A	N/A	0.29	1.62	N/A	N/A	N/A
GL-7	OB: 6mm (1/4") Guardian SunGuard® SNX 62/27 on Clear Low-E #2 AS: 1/2" (Air) IB: 6mm (1/4") Clear with White Ceramic Frit Silk-screened #3 Standard Hole Pattern 60% Coverage	0.946 / 24.028	33	24	29	0%	13	44	0.29	1.62	0.23	0.20	1.68
GL-5	OB: 6mm (1/4") Guardian SunGuard® SNX 62/27 on Clear Low-E #2 AS: 1/2" (Air) IB: 6mm (1/4") Guardian Clear	0.942 / 23.926	62	11	12	6%	23	39	0.29	1.62	0.31	0.27	2.31

### NOTES:

Contact Oldcastle BuildingEnvelope® at 866-OLDCASTLE (653-2278) for samples or additional information. SystemSelect® calculates center of glass data using the Lawrence Berkeley National Laboratory (LBNL) Berkeley Lab WINDOW Calc Engine (CalcEngine) with thermal performance per NFRC 100, 200 & 500. Glass data is from following sources: 1. LBNL International Glazing Database (IGDB) v70.0; 2. Vendor supplied data; 3. LBNL Optics 6; 4. Based on vendor testing, clear acid-etched glass performance data is estimated using regular clear glass of equivalent thickness. Framing system values and glass spacer values determined per LBNL THERM 7.4. Thermal values are in both Imperial (IP) and Metric (SI) units.



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 80 00  
Glazing

1.6 Action Submittals  
C. Glass Samples

(Samples are on order and will be delivered under a separate transmittal)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 80 00

Glazing

1.6 Action Submittals  
D. Glazing Accessory Samples

(Samples are on order and will be delivered under a separate transmittal)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 80 00  
Glazing

1.6 Action Submittals  
E. Glazing Schedule



## SECTION 08 80 00

### GLAZING SCHEDULE

Contractor:  
Project Name:

SpawGlass  
The University of Texas at Austin  
Seay Building Addition

**Note:** This Glazing Schedule is **ONLY** for miscellaneous glazing on hollow metal frames by others.  
For glazing on aluminum doors and frames please refer to Shop Drawings.

#### Type GL-2: 1/4" Clear Monolithic Tempered

Frame / Mark	Arch. Reference	Qty.
HM / W1	A112; A501	1 lite
HM / W2	A112; A501	6 lites
HM / W3	A112; A501	6 lites
HM / W4	A113; A501	2 lites
HM / FR2	A112; A501	12 lites
HM / FR2	A113; A501	26 lites
HM / FR2	A114; A501	12 lites
HM / FR2A	A115; A501	12 lites
HM / FR2B	A115; A501	4 lites
HM / FR2B	A112; A501	2 lites
HM / FR2B	A113; A501	4 lites
HM / FR2B	A114; A501	8 lites
HM / FR2B	A115; A501	4 lites
HM / FR2C	A114; A501	4 lites
HM / FR2C	A115; A501	2 lites
HM / FR2D	A112; A501	2 lites
HM / FR2D	A115; A501	2 lites
HM / FR3	A112; A501	16 lites
HM / FR3	A113; A501	44 lites
HM / FR3	A114; A501	20 lites
HM / FR3	A115; A501	32 lites
HM / FR4	A112; A501	6 lites
HM / FR4	A113; A501	6 lites
HM / FR5	A114; A501	3 lites
HM / FR6	A115; A501	16 lites

End of Schedule



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 80 00

Glazing

1.6 Action Submittals  
F. Delegated-Design Submittal

(Calculations booklet will be submitted after shop drawings approval)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 80 00

Glazing

1.7 Informational Submittals  
A. Sustainable Design Submittal

## Environmental Statement

Oldcastle Glass® is the leading supplier of architectural glass and aluminum glazing systems, including custom-engineered curtain wall and window wall, architectural windows, storefront systems, doors and skylights. It is Oldcastle Glass®'s policy to be environmentally friendly to the communities where we manufacture as well as the areas in which our products are installed and maintained. Oldcastle Glass® has an active Waste Minimization Plan and is continually improving its operations to reduce waste and maximize efficiency.

### PRODUCT

Olfactory - Not applicable. No odors or volatile organic compounds (VOC) are emitted by the finished product. Auditory - Product itself does not generate or emit any sounds. Noise reduction capabilities of installed product which includes glass or other infill product can vary dependent upon the infill material used. Visual - Storefronts, curtain walls, windows and skylights are a very good source of natural daylight. Energy efficiency can vary based upon system design and infill product used. Glass as an infill offers a wide range of performance capabilities in reflectivity, light transmission, shading coefficient, etc. Building Related Illnesses - No history of any problems or potential in this area. Energy Requirements - Minimal energy is required during the application of product. Product Maintenance - Maintenance procedures for either anodized or painted products are readily available from AAMA or Oldcastle Glass®.

### MANUFACTURING PROCESS

Recycled Content - A percentage of the billet we use to produce extrusions have an 80% re-consumer recycled material content. When notified at the bid stage, we have the ability to produce a project utilizing 45%-75% preconsumer recycled material and document the process accordingly. Reusable Life - All aluminum components are reusable by reprocessing into secondary aluminum for extrusion or casting purposes. Any PVC components and acrylic skylight domes can be processed and reused in other PVC extrusions or cast into acrylic sheet, respectively. EPDM gasket materials have a secondary life in road or athletic surfaces. Glass products have the potential to be used in paving materials, road deflectors and reflective paints. Non-tempered glass has the potential to be re-fabricated for use as a sheet product.

### ENVIRONMENTAL STATEMENT INTERNAL RECYCLING

Aluminum Extrusion - All scrap generated in the extrusion operation is recycled. Scrap in this operation is still considered prime and Oldcastle Glass® has this material re-cast into log for use in the extrusion operation. PVC Extrusion - All scrap is ground and reused in other PVC extrusions. Anodizing - Sodium Hydroxide is recycled in a caustic recovery system and sulfuric acid is recovered in an acid repurification system. Water utilization is minimized by circulating to regressive rinse tanks. All water is ultimately cleaned, pH corrected with all solids removed by a filtration process. A by-product of the anodizing process is aluminum trihydrate which is provided to producers of industrial alum and is eventually used in water treatment plants. Paint - All solvents are reclaimed and internal paint mixing capabilities allows utilization of excess color formulations by reformulating to a new color. Chrome, which is specified by AAMA in the pretreatment process, is captured and delivered to an outside agency for proper handling. Fabrication - All aluminum scrap including saw chips are captured and sold to recycling companies. Acrylic waste are either reformed into acceptable domes or sold for recycling. Wooden pallets are either reused or recycled. Cardboard, steel banding, polycarbonate and fiberglass are all recycled. Other - All miscellaneous metals such as steel and copper are recycled. Other recycled items include beverage cans, printer cartridges and fluorescent bulbs.

### NON-POLLUTING

All heat requirements are satisfied by natural gas or electricity. In the anodizing process, all chemicals are either reclaimed and recycled, such as sodium hydroxide and sulfuric acid already mentioned, or captured and sent to a proper reclamation or processing company. Paints are applied with electrostatic equipment to reduce over spray which is captured in a thermal oxidizer providing 98% or greater destruction of volatile organic compounds (VOC). Oldcastle Glass® makes every effort and to the best of our knowledge is 100% compliant with all local, state or federal environmental requirements. A staff specialist is devoted to environmental concerns and compliance. Also, Oldcastle Glass® has conducted hazardous materials training to minimize risk to all employees and environmental damage. Energy Efficiency - Our goal is to conserve energy. Ovens insulated to the best possible degree and seal tanks in anodizing are covered for heat retention and energy conservation. Premium efficiency motors are utilized on equipment such as compressors, pumps and chillers. Most plant areas utilize skylights for natural lighting and reduction of electrical lighting. All new and replacement lighting uses electronic ballasts and high efficiency lamps. Occupancy sensors for lighting are used in all new and remodeled offices. New and replacement HVAC systems utilize the high-energy efficiency designs.

06/08



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 80 00  
Glazing

1.7 Informational Submittals  
B. Product Certificates



## CERTIFICATIONS FOR GLASS THICKNESS, QUALITY AND TYPES

1. **Primary Float Annealed Glass** as supplied by Oldcastle BuildingEnvelope® meets the quality requirements of ASTM C1036, Standard Specification for Flat Glass, for Type 1, Class 1 (Clear), Class 2 (Tinted), Heat-Absorbing and Light-Reducing, Quality Q3 Glazing. Suppliers to Oldcastle BuildingEnvelope® include PPG, Guardian and Pilkington.  
**Canada:** Primary Float Annealed Glass sold in Canada meets CAN/CGSB-12.3-M, Quality-Glazing.
2. **Heat-Treated Glass** as supplied by Oldcastle BuildingEnvelope®, meets the quality and strength requirements of ASTM C1048, Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass, for Condition A , Quality Q3, and Kind FT (fully tempered) or Kind HS (heat-strengthened).  
**Canada:** Fully Tempered Glass sold in Canada meets CAN/CGSB-12.1-M, Type 2-Tempered Glass, Class B-Float Glass.  
**Canada:** Heat-Strengthened Glass sold in Canada meets CAN/CGSB-12.9-M, Type 2-Heat-Strengthened Glass, Class A-Float Glass.
3. **Safety Glass**, laminated glass with an 0.030" or thicker interlayer, or tempered glass supplied by Oldcastle BuildingEnvelope® meets the safety criteria of CPSC 16 CFR 1201 (Categories I & II) and ANSI Z97.1 (Class A and B), and is certified by the Safety Glazing Certification Council (SGCC). Heat-Strengthened glass is **not** safety glass.  
**Canada:** Fully Tempered Glass sold in Canada meets CAN/CGSB-12.1-M, Type 2-Tempered Glass, Class B-Float Glass.  
**Canada:** Laminated Glass sold in Canada meets CAN/CGSB-12.1-M, Type 1-Laminated Glass, Class B-Float Glass.
4. **Low-E & Reflective Coated Glass** as supplied by Oldcastle BuildingEnvelope® meets the quality requirements of ASTM C1376, Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass
5. **Laminated Glass** as supplied by Oldcastle BuildingEnvelope® meets the quality requirements of ASTM C1172, Standard Specification for Laminated Architectural Flat Glass.  
**Canada:** Laminated Glass sold in Canada Meets CAN/CGSB-12.1-M, Type 1-Laminated Glass, Class B-Float Glass.
6. **Spandrel:** Oldcastle BuildingEnvelope® offers two types of spandrel glass: ceramic enamel frit and silicone paint. 1. Ceramic enamel frit spandrel glass meets the ASTM C1048, Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass, for either Condition B, Kind FT (fully tempered) or Kind HS (heat-strengthened). The specified color is fused onto, and made an integral part of the glass surface during the heat-treating process. 2. OPACI-COAT-300® elastomeric coating spandrel glass meets the ASTM C1048 specification, Kind FT (fully tempered) or Kind HS (heat-strengthened) as specified.  
**Canada:** Spandrel Glass sold in Canada meets CAN/CGSB-12.9-M, Type 1 – Tempered Glass or Type 2 – Heat-Strengthened Glass, Class A – Float Glass, Style 1 – Ceramic Coated or Style 3 – Organic Coated.
7. **Insulating Glass Units** as supplied by Oldcastle BuildingEnvelope® will consist of two or more lites of glass, separated by a dehydrated airspace, and dual-sealed with a polyisobutylene (PIB) primary sealant and a secondary sealant. These units are tested in accordance with ASTM E2190 Standard Specification for Insulating Glass Unit Performance and Evaluation, and meet all guidelines and requirements for the IGCC®/IGMA® certification program.  
**Canada:** Insulating glass units sold in Canada meet all guidelines and requirements for the IGCC®/IGMA® certification program.



Administrative Office, AMS, Inc.  
205 West Main Street, PO Box 730  
Sackets Harbor, NY 13685  
Phone: (315)646-2234  
E-mail: SGCC@amscert.com



## ACKNOWLEDGEMENT OF CERTIFICATION

THIS IS TO ACKNOWLEDGE THAT AS OF THIS DATE

### Oldcastle BuildingEnvelope® Grand Prairie, TX

IS A CURRENT LICENSEE AND HAS MET ALL GUIDELINES AND REQUIREMENTS FOR THE SGCC® CERTIFICATION PROGRAM AND AS SUCH IS ELIGIBLE TO LABEL THE BELOW INDICATED PRODUCT(S) AS SGCC® CERTIFIED. REPRESENTATIVE SAMPLES OF THE BELOW PRODUCTS HAVE BEEN FOUND TO BE IN COMPLIANCE WITH ANSI Z97.1-2015 AS INDICATED AND CPSC 16 CFR 1201 STANDARDS, KNOWN AS COMPOSITE CERTIFICATION (COMP), OR BOTH STANDARDS WITH CAN/CGSB 12.1-2017 KNOWN AS COMP+CAN.

<u>SGCC#</u>	<u>IN</u>	<u>MM</u>	<u>Attributes</u>	<u>INT</u>	<u>Type</u>	<u>Code</u>	<u>Max Size</u>	<u>ANSI Class</u>	<u>Test Std</u>
3250	1/8	3			TTG	U	A	COMP+CAN	
3251	5/32	4			TTG	U	A	COMP+CAN	
3252	3/16	5			TTG	U	A	COMP+CAN	
3253	1/4	6			TTG	U	A	COMP+CAN	
3255	3/8	10			TTG	U	A	COMP+CAN	
3256	1/2	12			TTG	U	A	COMP+CAN	
3257	3/4	19			TTG	U	A	COMP+CAN	
3425	1/8	3	(s)		TPG	U	A	COMP+CAN	
3426	5/32	4	(m)(IN)		TPG	U	A	COMP+CAN	
3427	3/16	5	(s)		TPG	U	A	COMP+CAN	
3428	3/8	10	(s)		TPG	U	A	COMP+CAN	
7039	5/8	16			TTG	U	A	COMP+CAN	
7098	(H)	8-16+	(b)(A)	(.030)	LTG	U	A	COMP+CAN	
7099	(S)	6	(b)(A)	(.030)	LTG	U	A	COMP+CAN	
7109	(H)	8-16+	(ip)(A)	(.060)	LTG	U	A	COMP+CAN	

THIS SGCC® PROGRAM CERTIFICATION IS CURRENT AND IN FULL EFFECT AS OF THIS ISSUE DATE. CERTIFICATION IN THE SGCC® PROGRAM IS SUBJECT TO SEMI-ANNUAL RENEWAL. PLEASE CHECK THE SGCC WEBSITE AT [WWW.SGCC.ORG](http://WWW.SGCC.ORG) OR THIS OFFICE FOR MOST CURRENT INFORMATION.

Saturday, May 30, 2020  
DATE OF ISSUE

F20  
CERTIFICATION PERIOD

ADMINISTRATIVE MANAGER



Administrative Management Systems, Inc.  
205 West Main Street, PO Box 730  
Sackets Harbor, NY 13685

Phone: (315) 646-2234

Fax: (315) 646-2297

E-mail: staff@amscert.com



#0961  
ISOIEC 17065  
Product Certification Body

## ACKNOWLEDGEMENT OF CERTIFICATION

THIS IS TO ACKNOWLEDGE THAT AS OF THIS DATE

Oldcastle BuildingEnvelope®

Grand Prairie, TX

IS A CURRENT LICENSEE AND HAS MET ALL GUIDELINES AND REQUIREMENTS FOR THE IGCC®/IGMA® CERTIFICATION PROGRAM AND AS SUCH IS ELIGIBLE TO LABEL THE BELOW INDICATED PRODUCT(S) AS IGCC®/IGMA® CERTIFIED. THE FOLLOWING ARE IN COMPLIANCE WITH ASTM E2190 FOR SEAL DURABILITY OF INSULATING GLASS UNITS AND PASSING GAS CONTENT INITIAL AND AFTER WEATHERING (GCIA) CERTIFICATION REQUIREMENTS AS INDICATED.

CERT #	GLASS	SPACER	FRAME CONST.	DESICCANT	SEALANT	GCIA
3974	U/C2	MA	MC4/PK/IC	LF	PIB/S1	No
4438	U/C2	MA	MC4/PK/IC	LF	PIB/S2	Yes
5374	U/C2	FSF	BC3/MC1/MT	IB	PIB/S2	Yes
4850	U/C2	FS	BC3/MC1/MT	IB	PIB/S2	Yes

THIS IGCC®/IGMA® PROGRAM CERTIFICATION IS CURRENT AND IN FULL EFFECT AS OF THIS ISSUE DATE.  
CERTIFICATION IN THE IGCC®/IGMA® PROGRAM IS SUBJECT TO SEMI-ANNUAL RENEWAL. PLEASE CHECK THE  
CURRENT CERTIFIED PRODUCTS DIRECTORY OR THIS OFFICE FOR MOST CURRENT INFORMATION.

Friday, May 29, 2020      February 1, 2020 - January 31, 2021  
DATE OF ISSUE      CERTIFICATION PERIOD

  
JL-A, 2021  
ADMINISTRATIVE MANAGER



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 80 00  
Glazing

1.7 Informational Submittals  
C. Product Test Reports

(N/A)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 80 00  
Glazing

1.7 Informational Submittals  
D. Preconstruction Adhesion and Compatibility Test Report

(N/A)



**THE UNIVERSITY OF TEXAS AT AUSTIN  
SARAH M. & CHARLES E. SEAY BUILDING ADDITION**

Contractor: SpawGlass

Section 08 80 00  
Glazing

1.7 Informational Submittals  
E. Sample Warranties

## **OLDCASTLE BUILDINGENVELOPE® STANDARD TEN-YEAR LIMITED GLASS WARRANTY**

Oldcastle BuildingEnvelope®'s ("Oldcastle") Ten-year Limited Warranty ("Limited Warranty")<sup>1</sup> applies to the following products set forth below for a period of ten (10) years from the date of manufacture:

- 1. INSULATING GLASS (DUAL SEAL UNIT) LIMITED WARRANTY.** The Insulating Glass (Dual Seal Unit) shall be free of defective materials or workmanship, which result in visible fogging or moisture residue formation on internal glass surfaces due to failure of the insulating glass seal under normal conditions.
- 2. LAMINATED GLASS LIMITED WARRANTY.** The standard two-ply Laminated Glass shall be free of defective materials or workmanship, which result in delamination under normal conditions, excluding glass-polycarbonate laminates.
- 3. CERAMIC FRIT SPANDREL, FRIT SILK-SCREENED, AND DIGITALLY PRINTED INK GLASS LIMITED WARRANTY.** Ceramic Frit Spandrel, Frit Silk-Screened, and Digitally Printed Ink Glass shall be free of defective materials or workmanship, which result in visible peeling or cracking of the ceramic materials under normal conditions.
- 4. HIGH-PERFORMANCE COATINGS LIMITED WARRANTY.** Oldcastle warrants to facilitate a resolution of valid claims for defective materials or workmanship against the glass manufacturer who applied the high-performance coating, which result in peeling or cracking of the high-performance coating when glazed as a component of a dual seal insulating glass unit with the coating oriented to the interior airspace under normal conditions.
- 5. HEAT-TREATED GLASS LIMITED WARRANTY.** Heat-Treated Glass (tempered and heat-strengthened) shall meet the requirements of ASTM C1048 under normal conditions. Heat-soaked tempered glass is covered under a separate express limited warranty and is excluded from this Limited Warranty. A separate Heat-Soaked Tempered Glass Warranty is offered when heat-soak testing is requested prior to the fabrication of the glass.

<sup>1</sup> The Additional Terms and Conditions contained on the following pages are hereby expressly incorporated into Oldcastle's Limited Warranty.

## **ADDITIONAL TERMS AND CONDITIONS INCORPORATED INTO OLDCASTLE BUILDINGENVELOPE®, INC.'S STANDARD TEN-YEAR LIMITED GLASS WARRANTY**

If, within ten (10) years from the date of manufacture, any glass provided to Purchaser breaches the Limited Warranty relating to the products listed above, Oldcastle, shall either (a) furnish the purchaser with a replacement product, F.O.B. the Oldcastle plant supplying the replacement, or (b) refund the original purchase price which the purchaser paid for the failed product. If Oldcastle elects to supply a replacement, the Limited Warranties shall extend only for the balance of the original Limited Warranty period of the failed product. Oldcastle shall have the sole right to determine whether such glass shall be replaced.

### **SUBMITTING A CLAIM**

Every claim for breach of this Limited Warranty shall be void unless: (1) it is provided to Oldcastle in writing and dated by post-mark or electronically within thirty (30) business days of the date the defect was discovered or should have reasonably been discovered, (2) it includes copies of the applicable invoices or sales orders, (3) Oldcastle is given a reasonable opportunity to inspect the alleged defective glass and its installation at the site, and (4) it is received by Oldcastle within ten (10) years from the date of manufacture. All claims shall be directed to the operating location which sold (invoiced) the product suspected of being defective.

### **EXCLUSIONS**

Oldcastle expressly disclaims responsibility for, and Oldcastle's Limited Warranty does not cover, the following: (i) any damage to any product caused by, or results from, improper installation, including any installation not performed in a good and workmanlike manner in accordance with industry standards and the Glass Association of North America (GANA) Glazing Manual, NGA/GANA Proper Procedures for Cleaning Architectural Glass Products bulletin, and other NGA/GANA documents, applicable shop drawings, ordinances and safety codes; (ii) improper cleaning and maintenance; (iii) storage in other than a good and workmanlike manner; (iv) abuse; (v) damage or breakage caused by persons other than employees or agents of Oldcastle while being handled, installed, shipped, glazed or used; (vi) damage or breaks, including scratches, occurring during construction or cleaning; (vii) damage or breakage caused by improper building design or construction; thermal breakage; (viii) building or foundation movement; (ix) use upon the product of any cleansing or treating agents; (x) any metal, plastic, or other scraping tools; (xi) atmospheric pollutants or contaminants, or runoff; (xii) leachate from building components; (xiii) use of the product with incompatible glazing or other materials; (xiv) or use of the product for purposes not considered suitable therefore by the glass industry or, in its sole discretion, by Oldcastle. No warranty is provided in respect of any damage to or failure caused by any of the foregoing.

Oldcastle provides no warranty for any product shipped outside the United States and Canada. **THE WARRANTIES IN THIS LIMITED WARRANTY ARE THE ONLY WARRANTIES APPLICABLE TO THE PRODUCTS IDENTIFIED ABOVE. THERE ARE NO OTHER WARRANTIES, REPRESENTATIONS, OR CONDITIONS OF ANY KIND, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, WITH RESPECT TO THE PRODUCTS SUPPLIED BY OLDCastle, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALL SUCH WARRANTIES ARE HEREBY SPECIFICALLY DISCLAIMED, AND OLDCastle SHALL HAVE NO LIABILITY THEREFORE, NOTWITHSTANDING (1) OLDCastle'S ACTUAL KNOWLEDGE OF ANY INTENDED USE OF THE PRODUCTS, OR (2) ANY ADVICE OR REPRESENTATION THAT MAY HAVE BEEN RENDERED BY OLDCastle CONCERNING THE DESIGN, MANUFACTURE, FABRICATION, SALE USE, INSTALLATION, OR PROVISION OF THE PRODUCTS.**

IN NO EVENT SHALL OLDCastle BE RESPONSIBLE FOR ANY COSTS, EXPENSES, OR DAMAGES RELATED TO REPLACING NONCONFORMING OR DEFECTIVE PRODUCTS (INCLUDING, BUT NOT LIMITED TO, LABOR, MATERIAL, OTHER EXPENSES OR DAMAGES INCLUDING CONSEQUENTIAL, SPECIAL, INDIRECT, OR OTHER DAMAGES OR COSTS), OTHER THAN AS SPECIFIED IN THIS PARAGRAPH. OLDCastle RESERVES THE RIGHT TO INSPECT ANY PRODUCT THAT IS ALLEGED TO BE DEFECTIVE.

This Limited Warranty is extended to the purchaser of the product only and any claim hereunder must be made solely by the purchaser. This Limited Warranty is not transferable without Oldcastle's prior written consent, which may be withheld entirely in its discretion, and any attempted assignment without such prior written consent shall void this Limited Warranty.

**OLDCASTLE GLASS DUAL SEAL INSULATING GLASS UNIT 10 YEAR LIMITED WARRANTY**

PLANT LOCATION: \_\_\_\_\_

CUSTOMER: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
DATE: \_\_\_\_\_

JOB NAME: \_\_\_\_\_

LOCATION: \_\_\_\_\_

INVOICE: \_\_\_\_\_

THE DUAL SEAL INSULATING GLASS UNIT PRODUCT (THE "PRODUCT") SOLD BY THE COMPANY NAMED ABOVE ("THE COMPANY") UNDER THE INVOICE REFERENCED ABOVE IS WARRANTED (1) FOR TEN (10) YEARS FROM THE DATE OF MANUFACTURE, UNDER NORMAL CONDITIONS OF USE, TO SUFFER NO MATERIAL OBSTRUCTION OF VISION DUE TO ACCUMULATION OF DUST, MOISTURE OR FILM ON THE INTERNAL SURFACE OF THE GLASS CAUSED BY FAILURE OF THE PRODUCT'S EDGE SEAL WHICH IS CAUSED BY DEFECTS IN MATERIALS OR WORKMANSHIP AND (2) IN CANADA, TO MEET THE QUALITY AND DURABILITY STANDARDS OF CAN/CGSB-12.8-N.

**Oldcastle Glass®**

THE EXPRESS LIMITED WARRANTY STATED HEREIN IS EXCLUSIVE AND IS IN LIEU OF AND REPLACES ANY AND ALL OTHER WARRANTIES, REPRESENTATIONS OR CONDITIONS OF ANY KIND, WHETHER WRITTEN, ORAL OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES, REPRESENTATIONS OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE), AND SUPERSIDES ANY ORAL OR WRITTEN WARRANTIES, REPRESENTATIONS OR CONDITIONS MADE, ASSERTED OR IMPLIED BY ANY DISTRIBUTOR, AGENT, REPRESENTATIVE OR EMPLOYEE OR CONTAINED IN ANY MANUAL, BROCHURE, LITERATURE, ADVERTISING OR OTHER MATERIALS. NO DISTRIBUTOR, AGENT, REPRESENTATIVE OR EMPLOYEE HAS THE AUTHORITY TO CHANGE, ALTER, AMEND OR OTHERWISE MODIFY THIS LIMITED WARRANTY.

SEE OTHER LIMITATIONS, EXCLUSIONS AND EXCEPTIONS ON REVERSE.

#### LIMITATIONS, EXCLUSIONS AND EXCEPTIONS/DUAL SEAL INSULATING GLASS UNIT LIMITED WARRANTY

All claims pursuant to this Limited Warranty must be presented in writing by the Purchaser of the Product (the "Purchaser") to the plant referenced on the reverse (the "Plant"), and to Oldcastle Glass, Inc. 2745 N Dallas Parkway, Suite 560, Plano, Texas 75093 within thirty (30) days of the Purchaser learning the facts upon which the claim is based. No warranty claim may be made after the passage of the applicable warranty period. Any legal action in respect of any claim under this Limited Warranty shall accrue on the reverse; the date and place of purchase of the Product; and the name, address and telephone number of the installer of the Product; and the name, address and telephone number of the Purchaser. **NO CLAIM UNDER THIS LIMITED WARRANTY SHALL BE HONORED WITHOUT PROOF OF PURCHASE OF THE APPLICABLE PRODUCT FOR THE DATE PAYMENT IS DUE THEREFOR SHALL VOID THIS LIMITED WARRANTY.** Upon validation by the Company of any Limited Warranty claim, the Company, at its sole option, shall either (a) furnish the Purchaser with a replacement Product or, if the Product is no longer made, a substitute product which is comparable to the original Product, F.O.B. the Plant, freight collect, or (b) refund the original purchase price which the Purchaser paid for the failed portion of the Product (less freight and other charges). A **COMPARABLE SUBSTITUTE PRODUCT, WHETHER FABRICATED BY THE COMPANY OR BY A PARTY CHOSEN BY THE COMPANY IN ITS SOLE DISCRETION, MAY HAVE CHARACTERISTICS INCLUDING, BUT NOT LIMITED TO, COLOR, SHADING COEFFICIENT, U-VALUE AND/OR SURFACE APPEARANCE WHICH VARY FROM THE ORIGINAL PRODUCT BUT SHALL NONETHELESS SATISFY THE COMPANY'S OBLIGATION TO REPLACE THE PRODUCT.** If the Company elects to supply a replacement or substitute product, the Limited Warranty on the replacement or substitute product shall extend only for the balance of the original Limited Warranty period of the failed Product. In no event shall the Company be responsible for any costs attendant to replacing nonconforming or defective Products (including, but not limited to, labor costs), other than as specified in this paragraph. At the Company's request, all defective Product which is replaced or substituted for pursuant to this Limited Warranty shall be returned to the Company, at the Purchaser's expense, within thirty (30) days after such replacement or substitution.

**THE COMPANY SPECIFICALLY DISCLAIMS RESPONSIBILITY FOR ANY DAMAGE TO ANY PRODUCT CAUSED BY, OR WHICH RESULTS FROM, IMPROPER INSTALLATION, INCLUDING ANY INSTALLATION NOT PERFORMED IN A GOOD AND WORKMANLIKE MANNER IN ACCORDANCE WITH INDUSTRY STANDARDS AND APPLICABLE SHOP DRAWINGS, ORDINANCES AND SAFETY CODES; PROVIDED THAT, IN ADDITION, SUCH INSTALLATION SHALL BE PERFORMED AT ANY HIGHER STANDARDS AS SHALL BE SET FORTH IN ANY GLAZING OR INSTALLATION INSTRUCTIONS PROVIDED BY THE COMPANY. IMPROPER MAINTENANCE; STORAGE IN OTHER THAN A GOOD AND WORKMANLIKE MANNER; ABUSE; DAMAGE OR BREAKAGE CAUSED BY PERSONS OTHER THAN EMPLOYEES OR AGENTS OF THE COMPANY WHILE BEING HANDLED, INSTALLED, SHIPPED, GLAZED OR USED; DAMAGE OR BREAKAGE CAUSED BY IMPROPER BUILDING DESIGN OR CONSTRUCTION; THERMAL BREAKAGE; BUILDING OR FOUNDATION MOVEMENT; USE UPON THE PRODUCT OF ANY CLEANSING OR TREATING AGENTS; ATMOSPHERIC POLLUTANTS OR CONTAMINANTS; OR RUNOFF; LEACHATE FROM BUILDING COMPONENTS; USE OF THE PRODUCT WITH INCOMPATIBLE GLAZING OR OTHER MATERIALS; OR USE OF THE PRODUCT FOR PURPOSES NOT CONSIDERED SUITABLE THEREFOR BY THE GLASS INDUSTRY OR, IN ITS SOLE DISCRETION, BY THE COMPANY. NO WARRANTY IS PROVIDED IN RESPECT OF ANY DAMAGE TO OR FAILURE CAUSED BY ANY OF THE FOREGOING.**

**IN ADDITION, THIS LIMITED WARRANTY SHALL BE VOID IF THE PRODUCT IS USED IN ANY MULLIONLESS BUTT-GLAZED SYSTEM OR IN ANY SILICONE GLAZING SYSTEM IF NOT INSTALLED IN ACCORDANCE WITH IGMA RECOMMENDATIONS USING GLAZING MATERIALS COMPATIBLE WITH THE PRODUCT AND THAT HAVE A WARRANTED LIFE OF AT LEAST AS LONG AS THAT OF THE PRODUCT, IF USED IN ANY SLOPED GLAZING (DEFINED AS TILTED INWARD OR OUTWARD BY MORE THAN FIFTEEN (15) DEGREES FROM VERTICAL); IF INSTALLED IN ANY HIGH MOISTURE, HEAT, VIBRATION OR OTHER UNUSUAL STRESS ENVIRONMENT (INCLUDING, WITHOUT LIMITATION, IN ANY WATERCRAFT, MOTOR VEHICLE, TRAILER, AQUARIUM, SWIMMING POOL ENCLOSURE, ZOO, GREENHOUSE, SOLAR COLLECTOR, REFRIGERATION UNIT, CONTROL TOWER OR SKYLIGHT); IF FILM, SHADES, BLINDS OR ANY FOREIGN MATERIALS ARE USED ON OR NEAR THE SURFACE OF THE PRODUCT; IF ANY ACETOXY SILICONE SEALANT IS USED WITH ANY PRODUCT BUILT WITH TWO COMPONENT SILICONE; OR IF ANY BREATHER AND/OR CAPILLARY TUBES HAVE NOT BEEN PROPERLY CRIMPED AND SEALED WITHIN TEN (10) DAYS AFTER ARRIVAL OF THE PRODUCT ON THE JOB SITE. ANY PRODUCT SHIPPED OUTSIDE THE UNITED STATES AND CANADA IS NOT WARRANTED BY OLDCASTLE GLASS COMMERCIAL PROJECTS GROUP.**

**THE REMEDIES PROVIDED HEREIN AND IN THE COMPANY'S INVOICE FOR THE PRODUCTS CONSTITUTE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY UNDER ANY CLAIM OR THEORY OF LIABILITY IN RESPECT OF THE COMPANY'S MANUFACTURE, SALE OR PROVISION OF THE PRODUCT OR ANY WARRANTY IN CONNECTION THEREWITH, INCLUDING, WITHOUT LIMITATION, CLAIMS BASED UPON FAILURE OF, OR DEFECT IN, THE PRODUCT, WHETHER A CLAIM, HOWEVER INSTITUTED, IS BASED UPON CONTRACT, INDEMNITY, BREACH OF WARRANTY, TORT (INCLUDING NEGLIGENCE AND/OR STRICT LIABILITY) OR OTHERWISE. THE COMPANY SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, PUNITIVE, EXEMPLARY, EXEMPLARY OR SPECIAL DAMAGES, CLAIMS OR COSTS OF ANY NATURE INCLUDING, WITHOUT LIMITATION, LABOR COSTS OF ANY KIND RELATING TO THE REMOVAL OF FAILED PRODUCTS AND/OR REINSTALLATION OF REPLACEMENT PRODUCTS THEREFORE, OR DAMAGES, CLAIMS OR COSTS OTHERWISE ARISING FROM, OR IN CONNECTION WITH, ALLEGED BREACH OF ANY LIMITED WARRANTY OR NEGLIGENCE ON THE PART OF THE COMPANY.**

If Purchaser is sued by any third party for Product failure under warranty or any other theory, Purchaser shall provide the Company at its Plant and Oldcastle Glass, Inc. at its address above with written notice thereof with a copy of any and all pleadings served upon Purchaser within ten (10) days of such service and provide the Company with an opportunity to inspect the allegedly defective Product. Failure to comply with the foregoing shall void this Limited Warranty.

**PRODUCTS NOT EXPRESSLY WARRANTED BY THE COMPANY ARE SOLD "AS IS, WITH ALL FAULTS" AND PRODUCT FAILURES EXPRESSLY EXCLUDED FROM THIS LIMITED WARRANTY (INCLUDING, FOR EXAMPLE, BUT NOT LIMITED TO, GLASS BREAKAGE) ARE NOT COVERED BY ANY OTHER WARRANTY, REPRESENTATION OR CONDITION, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE. THE COMPANY OFFERS NO WARRANTY, EXPRESS, IMPLIED OR OTHERWISE FOR ANNEALED GLASS, PRODUCTS CONTAINING A FILM OPACIFIER, OR ANY COATED GLASS PROVIDED AS PART OF ITS PRODUCTS. FOR THE SOLE CONVENIENCE OF THE CUSTOMER, THE COMPANY WILL FACILITATE RESOLUTION OF WARRANTY ISSUES WHICH MAY OCCUR BETWEEN THE CUSTOMER AND THE COATER.** To the extent assignable, the Company assigns to the Purchaser any warranty on the Product provided by a third party glass coater. These assigned warranties will generally be limited and subject to exclusions and exceptions. The Purchaser is advised to apprise itself of such limitations, exclusions and exceptions, and the Company shall have no obligation to so apprise the Purchaser. (In general the limited warranty provided by glass coaters may be void if the coated glass is installed contrary to the Company's or the respective coater's instructions, damaged by improper handling or installation, or if damaged because of scratches or abrasions which may be caused by abrasive cleaners used on the coated surface.)

Any waiver by the Company of a deviation from any of the terms or conditions in this Limited Warranty shall only be for the specific deviation so waived and shall not be construed as a waiver of any other term or condition nor a continuing waiver of the term or condition so waived.

The Company reserves the absolute right to inspect, in the field or at the Plant, any Product that is alleged by the Purchaser to be defective. Failure to afford the Company the right to inspect allegedly defective Product promptly upon the Purchaser becoming aware of any defect therein voids this Limited Warranty.

The Purchaser is solely responsible for all determinations of the compatibility of any glazing or other materials (e.g., sealants, gaskets, tapes, setting blocks, metal or finishes) with the Product. The Purchaser is advised that annealed, heat strengthened or wired glass does not meet the requirements of CPSC 16 CFR 1201 for safety glazing and should not be glazed in hazardous locations, including those defined by applicable codes and law. Hazardous locations should be glazed with approved safety glass.

**IT IS THE EXPRESS WISH OF THE PARTIES THAT THIS LIMITED WARRANTY AND ANY RELATED DOCUMENTS BE DRAWN UP AND EXECUTED IN ENGLISH ONLY. IL EST LA VOLONTÉ EXPRESSE DES PARTIES QUE CETTE GARANTIE LIMITÉE ET TOUS LES DOCUMENTS S'Y RATTACHENT SOIENT REDIGÉS ET SIGNÉS EN ANGLAIS SEULEMENT. THIS LIMITED WARRANTY AND ANY RELATED DOCUMENTS ARE IN THE ENGLISH LANGUAGE AND SHALL BE INTERPRETED IN ACCORDANCE WITH THE MEANINGS OF THE WORDS AND PHRASES USED HEREIN AS UNDERSTOOD IN THE STATE OR PROVINCE OF SELLER'S PLANT INDICATED ON THE FACE OF THIS LIMITED WARRANTY. THIS LIMITED WARRANTY SHALL BE GOVERNED BY AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH THE LAWS OF THE STATE OR PROVINCE IN WHICH THE PLANT IS LOCATED, WITHOUT REGARD TO PRINCIPLES OF CONFLICTS OF LAWS. ANY SUIT, ACTION OR PROCEEDING ARISING OUT OF OR RELATING TO THIS LIMITED WARRANTY SHALL BE INSTITUTED IN ANY COURT SITTING IN SUCH PROVINCE OR, IN THE CASE OF A STATE, IN THE COUNTY OF THE LOCATION OF THE PLANT AND ANY OBJECTION WHICH MAY NOW OR HEREAFTER EXIST TO THE LAYING OF THE VENUE OR TO THE JURISDICTION OF ANY SUCH SUIT, ACTION OR PROCEEDING BY THE PURCHASER WHICH IS NOT IN COMPLIANCE WITH THE FOREGOING SHALL VOID THIS LIMITED WARRANTY.**

**THIS LIMITED WARRANTY, THE CREDIT APPLICATION, IF ANY, COMPLETED BY PURCHASER; THE COMPANY'S GLAZING INSTRUCTIONS, IF ANY; AND THE INVOICE FOR THE PURCHASE OF THE PRODUCT CONSTITUTE THE COMPLETE AND EXCLUSIVE STATEMENT OF THE TERMS OF THE AGREEMENT BETWEEN THE COMPANY AND PURCHASER WITH RESPECT TO THE SUBJECT MATTER HEREOF AND SUPERSEDE ANY OTHER WRITING, DOCUMENT OR AGREEMENT. THIS LIMITED WARRANTY MAY NOT BE MODIFIED, INCLUDING PURSUANT TO ANY ORDER MADE BY PURCHASER OR IN ANY OTHER DOCUMENT, UNLESS SUCH MODIFICATION IS MADE IN WRITING AND EXECUTED ON BEHALF OF SELLER BY ITS PRESIDENT.**

**THIS LIMITED WARRANTY IS EXTENDED TO THE PURCHASER OF THE PRODUCT ONLY AND ANY CLAIM HEREUNDER MAY BE MADE SOLELY BY THE PURCHASER. THIS LIMITED WARRANTY IS NOT TRANSFERABLE WITHOUT THE PRIOR WRITTEN CONSENT OF THE COMPANY, WHICH MAY BE WITHHELD ENTIRELY IN ITS DISCRETION, AND ANY ATTEMPTED ASSIGNMENT WITHOUT SUCH PRIOR WRITTEN CONSENT SHALL VOID THIS LIMITED WARRANTY.**

Forensic Architecture  
Exterior Envelope Consulting  
Water Infiltration Testing  
Inspection Services

[www.z6consulting.com](http://www.z6consulting.com)  
1027 Tremont Street  
Galveston, TX 77550  
Phone (409) 740-0090



## SUBMITTAL REVIEW

Submittal No.: 088000-003R1

Description: Spandrel Glazing - Sample

Project Name: UT Austin - SEA

Project No.: 102-1219

- NO EXCEPTIONS TAKEN
- SUBMIT SPECIFIED ITEM(S)
- ACTION NOT REQUIRED
- EXCEPTIONS NOTED
- REVISE AND RESUBMIT
- NOT REVIEWED

Corrections and notations on Shop Drawings during this review do not relieve this Contractor from complying with the requirements of the Contract Documents. This review is only for check of general conformance with the design concept of the project and general compliance with the information given in contract documents. Contractor is responsible for confirming and coordinating all quantities and dimensions, selecting fabrication processes and techniques of construction, and performing his work in a safe manner.

BY:

DATE: 2020/07/23

Submittal Comments:

1. AOR to approve finishes.



SpawGlass Contractors, Inc.  
9331 Corporate Drive  
Selma TX 78154

## TRANSMITTAL

No. 0273

PROJECT: UT Seay Building Addition

DATE: 07/22/2020

TO: BSA Lifestructures  
AL

RE: Glazing - Spandrel Graylite Ceramic #4 - Samples

ATTN: Ramon Arteaga

JOB: 3018105

WE ARE SENDING:		SUBMITTED FOR:	ACTION TAKEN:
<input type="checkbox"/> Shop Drawings		<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> Approved as Submitted
<input type="checkbox"/> Letter		<input type="checkbox"/> Your Use	<input type="checkbox"/> Approved as Noted
<input type="checkbox"/> Prints		<input type="checkbox"/> As Requested	<input type="checkbox"/> Returned After Loan
<input type="checkbox"/> Change Order		<input type="checkbox"/> Review and Comment	<input type="checkbox"/> Resubmit
<input type="checkbox"/> Plans			<input checked="" type="checkbox"/> Submit
<input type="checkbox"/> Samples		<b>SENT VIA:</b>	<input type="checkbox"/> Returned
<input type="checkbox"/> Specifications		<input type="checkbox"/> Attached <input type="checkbox"/> Separate Cover	<input type="checkbox"/> Returned for Corrections
<input type="checkbox"/> Other:			<input checked="" type="checkbox"/> Due Date: 08/05/2020
<input checked="" type="checkbox"/> Submittal:			<input type="checkbox"/> Other:

Line	Item	Package	Code	Cycle	Qty	Date	Description	Status
1	Submittal		088000-003	2		07/22/2020	Glazing - Spandrel Graylite Ceramic #4 - Samples	Submitted for Approval

<b>SpawGlass Contractors, Inc.</b>
REVIEWED FOR COMPLIANCE <input checked="" type="checkbox"/>
COMMENTS NOTED <input type="checkbox"/>
REVISE AND RESUBMIT <input type="checkbox"/>
OTHER: <input type="checkbox"/>
DATE 7/22/2020 SPEC# 088000
REVIEWED BY tanner.hawkins
SUBMITTAL# 088000-003
APPROVAL DOES NOT RELIEVE THE SUBCONTRACTOR OR SUPPLIER OF RESPONSIBILITY FOR ACCURACY, COMPLETENESS, QUANTITIES, DIMENSIONS, AND COMPLIANCE WITH CONTRACT DOCUMENTS

### REMARKS:

CC:

Signed: Tanner Hawkins  
Tanner Hawkins



Forensic Architecture  
Exterior Envelope Consulting  
Water Infiltration Testing  
Inspection Services

[www.z6consulting.com](http://www.z6consulting.com)  
1027 Tremont Street  
Galveston, TX 77550  
Phone (409) 740-0090



## SUBMITTAL REVIEW

Submittal No.: 092400-001

Description: Cement Plastering - PD

Project Name: UT Austin - SEA

Project No.: 102-1219

- NO EXCEPTIONS TAKEN
- SUBMIT SPECIFIED ITEM(S)
- ACTION NOT REQUIRED
- EXCEPTIONS NOTED
- REVISE AND RESUBMIT
- NOT REVIEWED

Corrections and notations on Shop Drawings during this review do not relieve this Contractor from complying with the requirements of the Contract Documents. This review is only for check of general conformance with the design concept of the project and general compliance with the information given in contract documents. Contractor is responsible for confirming and coordinating all quantities and dimensions, selecting fabrication processes and techniques of construction, and performing his work in a safe manner.

BY:

Submittal Comments:

1. Per specifications, paper backed lath is required for exterior applications. Submitted product does not include paper backing.
2. Per specifications, provide product data for all required products (e.g., casing beads, control joints, fasteners, etc.).

DATE: 2020/08/19



SpawGlass Contractors, Inc.  
9331 Corporate Drive  
Selma TX 78154

# TRANSMITTAL

No. 0292

PROJECT: UT Seay Building Addition

DATE: 08/04/2020

TO: BSA Lifestructures  
AL

RE: Cement Plastering - Stucco Assembly - Product Data

ATTN: Ramon Arteaga

JOB: 3018105

WE ARE SENDING:		SUBMITTED FOR:	ACTION TAKEN:
<input type="checkbox"/> Shop Drawings		<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> Approved as Submitted
<input type="checkbox"/> Letter		<input type="checkbox"/> Your Use	<input type="checkbox"/> Approved as Noted
<input type="checkbox"/> Prints		<input type="checkbox"/> As Requested	<input type="checkbox"/> Returned After Loan
<input type="checkbox"/> Change Order		<input type="checkbox"/> Review and Comment	<input type="checkbox"/> Resubmit
<input type="checkbox"/> Plans			<input checked="" type="checkbox"/> Submit
<input type="checkbox"/> Samples		<b>SENT VIA:</b>	<input type="checkbox"/> Returned
<input type="checkbox"/> Specifications		<input type="checkbox"/> Attached <input type="checkbox"/> Separate Cover	<input type="checkbox"/> Returned for Corrections
<input type="checkbox"/> Other:			<input checked="" type="checkbox"/> Due Date: 08/18/2020
<input checked="" type="checkbox"/> Submittal:			<input type="checkbox"/> Other:

Line	Item	Package	Code	Cycle	Qty	Date	Description	Status
1	Submittal		092400-001	1		08/04/2020	Cement Plastering - Stucco Assembly - Product Data	Submitted for Approval

<b>SpawGlass Contractors, Inc.</b>
REVIEWED FOR COMPLIANCE <input checked="" type="checkbox"/>
COMMENTS NOTED <input type="checkbox"/>
REVISE AND RESUBMIT <input type="checkbox"/>
OTHER: <input type="checkbox"/>
DATE 8/4/2020 SPEC# 092400
REVIEWED BY tanner.hawkins
SUBMITTAL# 092400-001
APPROVAL DOES NOT RELIEVE THE SUBCONTRACTOR OR SUPPLIER OF RESPONSIBILITY FOR ACCURACY, COMPLETENESS, QUANTITIES, DIMENSIONS, AND COMPLIANCE WITH CONTRACT DOCUMENTS

## REMARKS:

CC:

Signed: Tanner Hawkins  
Tanner Hawkins



# UT Seay Prefab

09 24 00 - Stucco  
Submittal

07/30/20

Architect to note color and finish upon approval



**Corporate Headquarters**  
13191 Crossroads Parkway North, Suite 325  
City of Industry, CA 91746  
Phone: 800.775.2362  
Fax: 626.330.7598

**Manufacturing Facilities**  
City of Industry, CA  
Denver, CO  
Ft. Worth, TX  
Pittsburg, CA

**Structural Engineering/Design**  
1001-A Pittsburgh Antioch Hwy  
Pittsburg, CA 94565  
Phone: 800.775.2362  
Fax: 626.330.7598

**Technical Services**  
263 North Covina Lane  
City of Industry, CA 91744  
Phone: 800.416.2278  
Fax: 626.249.5005

## SELF-FURRED METAL LATH (DIMPLED) WITHOUT PAPER

### Introduction

CEMCO's Self Furred Diamond Metal Lath "Dimpled" is manufactured with  $\frac{1}{4}$ " dimples in the lath. The dimples provide the necessary minimum  $\frac{1}{4}$ " furring off the sheathing's surface to allow for proper embedment and keying of the scratch coat on all types of walls. All CEMCO expanded metal lath is produced from standard G60 hot-dipped galvanized steel. G90 is available upon special request.

### Packaging

Weight per Square Yard (lb/yd <sup>2</sup> )	Sheet Size	Pieces per bundle	Yards per Pallet
1.75	27.5" x 96"	10	500
2.5	27.5" x 96"	10	500
3.4	27.5" x 96"	10	500

**Note:** 25 bundles per pallet.

### ASTM's & Code Standards

- ASTM A653
- ASTM C841 (Installation)
- ASTM C847
- ASTM A924
- ASTM C1063 (Installation)
- ICC ESR-1623
- ANSI A42.3, ANSI A42.4
- U.S. HUD 4930.1

### LEED v3 for Building and Design Construction

- MR Credit 2: Construction Waste Management.
- MR Credit 4: Recycled Content.

### LEED v4 for Building and Design Construction

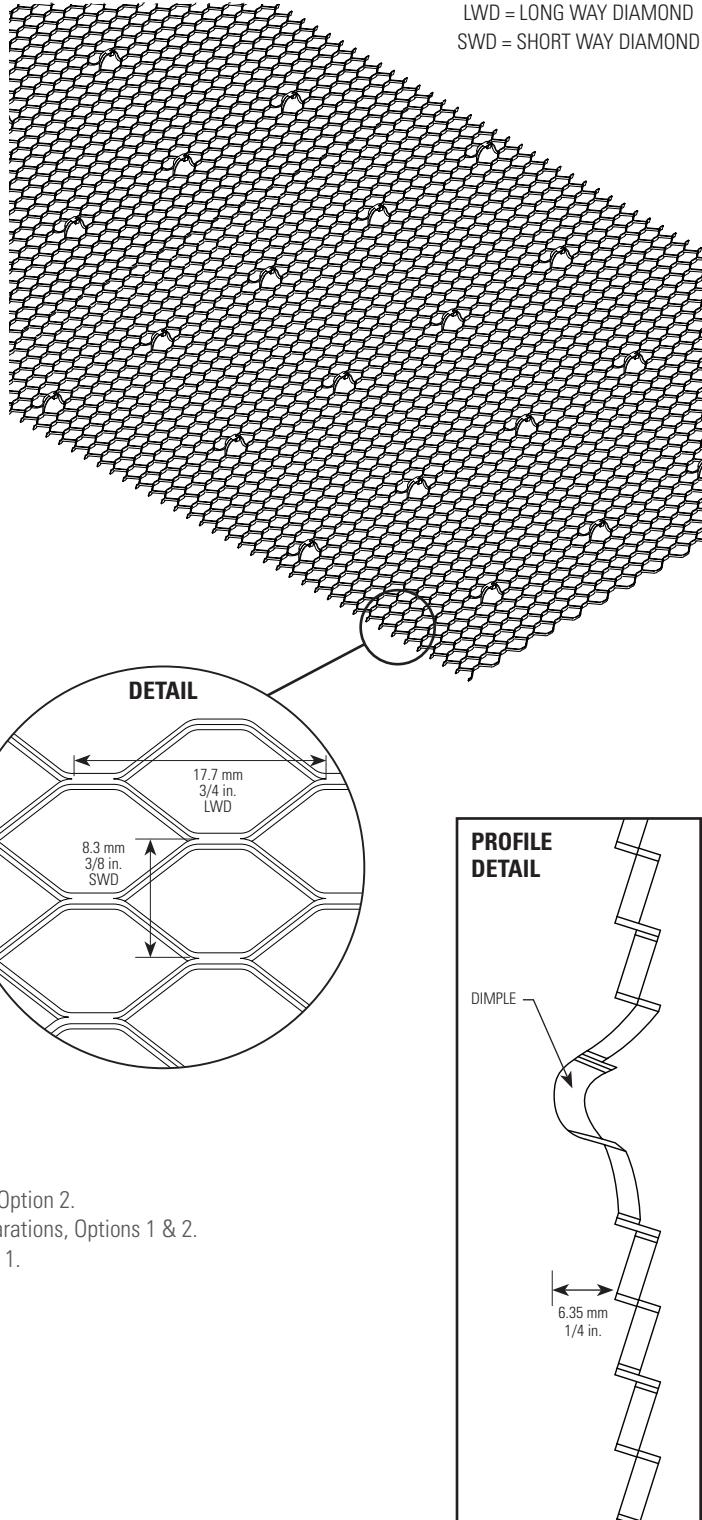
- MR Prerequisite: Construction and Demolition Waste Management Planning.
- MR Credit: Construction and Demolition Waste Management.
- MR Credit: Building Product Disclosure and Optimization – Sourcing of Raw Materials, Option 2.
- MR Credit: Building Product Disclosure and Optimization – Environmental Product Declarations, Options 1 & 2.
- MR Credit: Building Product Disclosure and Optimization – Material Ingredients, Option 1.
- MR Credit: Building Life-Cycle Impact Reduction, Option 4.

### CEMCO cold-formed steel framing products contain 30% to 37% recycled steel.

- Total Recycled Content: 36.9%
- Post-Consumer: 19.8%
- Pre-Consumer: 14.4%

### Technical Services

Technical Services: 800.416.2278  
Structural Engineering/Design: 925.473.9340  
[www.cemcosteel.com](http://www.cemcosteel.com)



This technical information reflects the most current information available and supersedes any and all previous publications effective August 1, 2016.

## Acrylic-Modified Adhesive and Base Coat

### Description

Primus is a 100% acrylic-modified product, which is field mixed in a 1 to 1 ratio by weight with Portland cement to produce the Primus mixture.

### Uses

The Primus mixture is used to adhere insulation board to an acceptable substrate and to embed Dryvit reinforcing mesh as part of the base coat for Dryvit systems. The Primus mixture can also be used as a skim coat to produce a smooth level surface on masonry or concrete.

### Coverage

Approximately 110 ft<sup>2</sup> (10 m<sup>2</sup>) of surface area per 60 lb (27 kg) pail. This includes adhesive and base coat layers.

### Properties

**Working Time** - After mixing, the working time of the Primus mixture is approximately 1 to 3 hours depending on ambient conditions.

**Drying Time** - When used to bond expanded polystyrene insulation board to an acceptable substrate, a period of 24 hours must elapse to allow the Primus mixture to form a positive bond. The installed insulation board should not be worked on while the Primus mixture is curing.

Drying time of the Primus mixture is dependent on the air temperature and relative humidity. Under average drying conditions [70 °F (21 °C), 55% R.H.], the Primus mixture will dry in 24 hours. Protect work from rain for at least 24 hours. Being a cementitious product, the Primus mixture develops full strength in 28 days.

### Testing Information

For individual test data on this product's properties, refer to the chart included with this document.

### Application Procedure

FOR COMPLETE APPLICATION INSTRUCTIONS, REFER TO THE APPROPRIATE DRYVIT SYSTEM APPLICATION INSTRUCTIONS.

**Job Conditions** - Air and surface temperature for application of the Primus mixture must be 40 °F (4 °C) or higher and must remain so for a minimum of 24 hours.

**Temporary Protection** - Shall be provided at all times until the adhesive, base coat, finish, and installation of permanent flashings, sealants, etc. are completed to protect the wall from inclement weather and other sources of damage.

### Acceptable Substrates

- Exterior grade gypsum sheathing meeting ASTM C 1396 (formerly C 79) requirements for water-resistant core or Type X core
- Exterior sheathing having a water-resistant core with fiberglass mat facers meeting ASTM C 1177
- Exterior fiber reinforced cement or calcium silicate boards
- Unglazed brick, cement plaster, concrete or masonry
- Galvanized expanded metal lath 2.5 or 3.4 lbs/yd<sup>2</sup>  
(1.4 or 1.8 kg/m<sup>2</sup>) installed over a solid substrate

### Surface Preparation

- Surfaces must be above 40 °F (4 °C) and must be clean, dry, structurally sound and free of efflorescence, grease, oil, form release agents and curing compounds.
- The substrate shall be flat within 1/4 in (6.4 mm) in any 4 ft (1.2 m) radius.

**Mixing** - Thoroughly mix the Primus material with Type I or Type II Portland cement at a 1 to 1 ratio by weight. Allow the mixture to set for 5 minutes. Retemper, adding a small amount of water to achieve the desired workability.

### Application

**Adhesive** - For application over **sheathing substrates**, use a stainless steel notched-trowel with notches measuring 3/8 in (9.5 mm) wide, 1/2 in (12.7 mm) deep spaced 1 1/2 in (38 mm) apart. Apply the Primus mixture on the back side of the insulation board and scrape the excess adhesive from between the adhesive beads. The adhesive beads shall be applied so that they run vertically when the insulation board is placed on the wall.

For application over **non-sheathing substrates**, the notched-trowel application as described previously is acceptable or a ribbon and dab application may be used. With a stainless steel trowel apply a ribbon of the Primus mixture 2 in (51 mm) wide x 3/8 in (9.5 mm) thick around the entire perimeter of the insulation board. Place eight dabs of the Primus mixture 3/8 in (9.5 mm) thick by 4 in (102 mm) in diameter approximately 8 in (203 mm) on center to the interior area.

**CAUTION: Do not install the Primus mixture directly on the substrate.** Immediately place the insulation board on the substrate, ensuring that no Primus mixture gets into board joints. Do not allow the Primus mixture to form a skin before positioning the insulation board on the substrate as it will affect the bond strength.

**Base Coat** - For base coat application, all insulation board irregularities greater than 1/16 in (1.6 mm) must be sanded flush. Apply the Primus mixture to the entire surface of the insulation board. Fully embed the Dryvit reinforcing mesh in the wet base coat troweling from the center to the edge of the reinforcing mesh so as to avoid wrinkles. The reinforcing mesh shall be continuous at all corners and lapped or butted in accordance with Dryvit's recommendations.

The overall minimum base coat thickness shall be sufficient to fully embed the reinforcing mesh. The recommended method is to apply the base coat in two applications. All areas requiring higher impact resistance shall be detailed on the plans and described in the contract documents. The application shall be in accordance with Dryvit's recommendations.

**Clean Up** - Clean tools with water while the Primus mixture is still wet.

#### **Storage**

Primus must be stored at a minimum of 40 °F (4 °C) and a maximum of 100 °F (38 °C) in tightly sealed containers protected from weather and out of direct sunlight.

#### **Cautions and Limitations**

- Clean potable water may be added to adjust workability. Do not add water until after the cement is thoroughly mixed. Do not overwater.
- Use only Type I or Type II gray or white Portland cement.
- The Primus mixture shall not be used to adhere EPS directly to wood based substrates.
- Avoid applying Primus in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.
- For base coat applications over EPS, do not apply the Primus mixture in thicknesses exceeding 1/8 in (3.2 mm).

#### **Technical and Field Services**

Available on request.

Primus® Testing			
Test	Test Method	Criteria	Results
Surface Burning Characteristics	ASTM E 84	ICC and ANSI/EIMA 99-A-2001 Flame Spread <25 Smoke Developed <450	Passed
Water Vapor Transmission	ASTM E 96 Procedure B	ICC: Vapor Permeable No ANSI/EIMA Criteria	26 Perms
Accelerated Weathering	ASTM G 154 Cycle 1 (QUV)	ANSI/EIMA 99-A-2001 2000 hours: No deleterious effects <sup>1</sup>	5000 hours: No deleterious effects <sup>1</sup>
	ASTM G 155 Cycle 1 (Xenon Arc)	ICC: 2000 hours: No deleterious effects <sup>1</sup>	2000 hours: No deleterious effects <sup>1</sup>
Freeze-Thaw Resistance	ASTM E 2485 (formerly EIMA 101.01)	ANSI/EIMA 99-A-2001 60 cycles: No deleterious effects <sup>1</sup>	90 cycles: No deleterious effects <sup>1</sup>
Water Resistance	ASTM D 2247	ICC and ANSI/EIMA 99-A-2001 14 days: No deleterious effects <sup>1</sup>	42 days: No deleterious effects <sup>1</sup>
Tensile Bond <sup>2</sup>	ASTM C 297/E 2134 (formerly EIMA 101.03)	ICC and ANSI/EIMA 99-A-2001 Minimum 15 psi (104 kPa)– substrate or insulation failure	>15 psi (104 kPa)
Transverse Wind Load	ASTM E 330	Wall assembly shall withstand positive and negative wind loads as specified by the building code	Minimum 90 psf (4.3 kPa) <sup>3</sup> 16 inch o.c. framing, 1/2 in sheathing screws attached at 8 in (203 mm) o.c.
Water Penetration	ASTM E 331	No water penetration beyond the inner-most plane of the wall after 2 hours at 6.24 psf (299 Pa)	Passed
Fire Resistance	ASTM E 119	No effect on the fire resistance of a rated wall assembly	Passed 1 hour Passed 2 hour
Ignitability	NFPA 268	No ignition at 12.5 kw/m <sup>2</sup> at 20 minutes	Passed
Full Scale Multi-Story Fire Test	UBC Std. 26-4 (formerly 17-6)	1. Resist vertical spread of flame within the core of the panel from one story to the next 2. Resist flame propagation over the exterior surface 3. Resist spread of vertical flame over the interior surface from one story to the next 4. Resist significant lateral spread of flame from the compartment of fire origin to adjacent spaces	Passed
Intermediate Multi-Story Fire Test	NFPA 285 (UBC 26-9)	1. Resist flame propagation over the exterior surface 2. Resist vertical spread of flame within combustible core/component of panel from one story to the next 3. Resist vertical spread of flame over the interior surface from one story to the next 4. Resist lateral spread of flame from the compartment of fire origin to adjacent spaces	Passed

1. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification.  
 2. Sample consists of 1" EPS adhered to various substrates  
 3. All Dryvit components remain intact – for higher wind loads contact Dryvit Systems, Inc.

Dryvit Systems, Inc.  
 One Energy Way  
 West Warwick, RI 02893  
 (800) 556-7752  
 www.dryvit.com

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For more information on [Dryvit Systems](#) or [Continuous Insulation](#), visit these links.

# DPR FINISHES

"Original" Aggregate Textured 100% Acrylic-Based Dirt Pickup Resistance Finishes



## PRODUCT DESCRIPTION

Quarzputz®, Sandblast®, Freestyle®, Sandpebble®, and Sandpebble® Fine finishes are premixed 100% acrylic-based coatings which are offered in standard colors as well as custom colors. They provide the finishing touch that adds lasting color and texture to exterior and interior walls. These are the original five finish textures with DPR (dirt pick-up resistant) chemistry that will remain clean longer after application.

## USES

DPR finishes are durable architectural finishes providing surface color and texture for Dryvit systems. These finishes can also be applied over properly prepared substrates such as exterior masonry, stucco, precast or cast-in-place concrete and other approved substrates. The finishes are also suitable for interior applications. All finishes can be trowel applied or spray applied with a hopper gun or pole gun-type sprayer.

## FEATURES & BENEFITS

FEATURE	BENEFIT
■ DPR chemistry	■ Stays cleaner longer
■ Multiple textures	■ Offers design freedom
■ 100% acrylic	■ Greater flexibility for crack resistance
■ Vapor permeable	■ Will not trap moisture vapor

## PROPERTIES

**Drying Time:** Drying of the finishes is dependent on the air temperature, relative humidity and finish thickness. Under average drying conditions [70 °F (21 °C), 55% R. H.], the finish will dry in 24 hours. Lower temperature and higher humidity will require that the DPR finish be protected for longer periods. Protect work from rain during the drying period.

**Testing Information:** For individual test data on this product's properties, refer to the chart included with this document.

**Job Conditions:** Air and surface temperature for application of finishes must be 40 °F (4 °C) or higher and must remain so for a minimum of 24 hours.

**Temporary Protection:** Shall be provided at all times until the DPR finish is dry, and installation of permanent flashings, sealants, etc. are completed to protect the wall from inclement weather and other sources of damage.

## DS416

### COVERAGE

All coverages are approximate and depend upon substrate, details and individual application technique. The finishes are shipped in 70 lb (32 kg) pails.

**Quarzputz:** approximately 140 ft<sup>2</sup> (13 m<sup>2</sup>) per pail.

**Sandblast:** approximately 150 ft<sup>2</sup> (14 m<sup>2</sup>) per pail.

**Freestyle:** Must be calculated based on the texture desired. However, a coating thickness of 1/16 in (1.6 mm) to 1/4 in (6.4 mm) must be maintained.

**Sandpebble:** approximately 130 ft<sup>2</sup> (12 m<sup>2</sup>) per pail.

**Sandpebble Fine:** approximately 160 ft<sup>2</sup> (15 m<sup>2</sup>) per pail.

### STORAGE

Finishes must be stored at a minimum of 40 °F (4 °C) and a maximum of 100 °F (38 °C) in tightly sealed containers protected from weather and out of direct sunlight.

The shelf life is 2 years from date of manufacture when properly stored in unopened pails.

### TEXTURE

Quarzputz, Sandblast, Sandpebble and Sandpebble Fine finishes achieve a texture which is governed by aggregate size as well as the trowel motion in finishing the wall. Quarzputz produces an open-textured pattern in a regular or random style. Sandblast produces a sand-like texture. Sandpebble produces a rough, pebbly texture, which is ideal for masking surface imperfections. Freestyle allows almost any ornamental trowel texture to be achieved. Sandpebble Fine produces a fine pebble texture.

### MAINTENANCE

All Dryvit products are designed to require minimal maintenance. However, as with all building products, depending on location, some cleaning may be required. See Dryvit publication DS152 on cleaning and recoating.

### CLEAN UP

Clean tools with water while the finishes are still wet.

# DPR FINISHES

"Original" Aggregate Textured 100% Acrylic-Based Dirt Pickup Resistance Finishes



## SURFACE PREPARATION

- Surface must be smooth and free of imperfections to ensure satisfactory appearance.
- Interior or exterior surfaces must be above 40 °F (4 °C) and must be clean, dry, structurally sound and free of efflorescence, grease, oil, form release agents and curing compounds.
- **Dryvit Reinforced Base Coat:** The base coat must dry and cure for a minimum of 24 hours before application of any finish.
- **Concrete:** Shall have cured a minimum of 28 days prior to application of the finishes. If efflorescence, form release agents or curing compounds are present on the concrete surface, the surface shall be thoroughly washed with muriatic acid and flushed to remove residual acid. All projections shall be removed and small voids filled with Dryvit Primus®, Primus® DM, Genesis® or Genesis® DM mixture (see product data sheets for mixing and application). Dryvit Color Prime™ shall be applied to the prepared concrete surface using a roller or brush (see product data sheet for mixing and application) prior to application of the finish.
- **Masonry:** The masonry surface, with joints struck flush, shall be "skim coated" with Primus, Primus DM, Genesis or Genesis DM mixture (see product data sheets for mixing and application) to produce a smooth, level surface.
- **Stucco:** Shall be dry and have cured a minimum of 7 days. Dryvit Color Prime, Color Prime W™ or Primer with Sand™ shall be applied over the cured brown coat surface using a roller or brush (see product data sheet for mixing and application) prior to applying the finish. If additives are present in the stucco, a test patch shall be made and bond strength checked prior to application.

## MIXING

Some settling of the finish may occur during shipping. Thoroughly mix the finish with a "Twister" paddle or equivalent mixing blade powered by a 1/2 in (12.7 mm) drill, 450-500 rpm, until a uniform workable consistency is attained.

## APPLICATION

- **Quarzputz or Sandblast:** using a stainless steel trowel, apply and level a coat of Quarzputz or Sandblast to a uniform thickness (Quarzputz- no thicker than the largest aggregate; Sandblast - applied in a thickness of 3/64 in (1.2 mm) – approximately 1 1/2 times the largest aggregate). The textures are achieved by uniform hand motion and/or type of tool used. Maintain wet edge for uniformity of color and texture.
- **Sandpebble or Sandpebble Fine:** roughly apply an even coat of finish to a thickness slightly thicker than the largest aggregate size. Then pull across the rough application coat using a horizontal trowel motion and develop a uniform thickness no greater than the largest aggregate of the material. The textures are achieved by uniform hand motion and/or type of tool used. Maintain wet edge for uniformity of color and texture.
- **Freestyle:** using a stainless steel trowel, apply a coat of the Freestyle slightly thicker than 1/16 in (1.6 mm). The texture is either pulled out of this base or achieved by adding more Freestyle finish to the base layer using the same texturing motions that are used with other plaster materials, such as a skip trowel finish. The thickness of any Freestyle finish texture shall not exceed 1/4 in (6.4 mm).

## DS416

### CAUTIONS & LIMITATIONS

- Avoid applying finish in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.
- Dryvit finishes must not be used on exposed exterior horizontal surfaces. Minimum slope is 6 in 12 which is 27°. Maximum length of slope is 12 in (305 mm).
- Dryvit finishes shall not be used below grade when applied as the finish for an EIF System.
- Dryvit finishes are not intended for direct-applied, vertical applications over exterior type gypsum based sheathing board, foam plastic insulation or other type insulation board.
- Dryvit finishes shall not be returned into any sealant joint. Instead, a coat of Dryvit Color Prime or Dryvit Demandit® Smooth shall be applied over the base coat that will be in contact with the sealant.

### TECHNICAL AND FIELD SERVICES

Available on request.

# DPR FINISHES

"Original" Aggregate Textured 100% Acrylic-Based Dirt Pickup Resistance Finishes



## DPR FINISH TESTING

Test	Test Method	Criteria	Results <sup>1</sup>
Surface Burning Characteristics	ASTM E 84	ICC and ANSI/EIMA 99-A-2001 Flame Spread <25 Smoke Developed <450	Passed
Flexibility <sup>2</sup>	ASTM D 522 Method B	No ICC or ANSI/EIMA Criteria	Passed: 1.5" diameter @ 73 °F
Water Vapor Transmission	ASTM E 96 Procedure B	ICC: Vapor Permeable No ANSI/EIMA Criteria	40 Perms
Accelerated Weathering	ASTM G 154 Cycle 1 (QUV)	ANSI/EIMA 99-A-2001 2000 hours: No deleterious effects <sup>3</sup>	5000 hours: No deleterious effects <sup>3</sup>
	ASTM G 155 Cycle 1 (Xenon Arc)	ICC: 2000 hours: No deleterious effects <sup>3</sup>	2000 hours: No deleterious effects <sup>3</sup>
Chalk Rating	ASTM D 4214 after ASTM G 154 Cycle 1	No ICC or ANSI/EIMA Criteria	Chalk rating: 9+ after 5000 hours QUV
Instrumentally Measured Color Difference <sup>4</sup> (includes yellowing)	ASTM D 2244 CIELAB, 10° Observer after ASTM G 154 Cycle 1	No ICC or ANSI/EIMA Criteria	Color change: 0.51 Delta E after 5000 hours QUV
Freeze-Thaw Resistance	ASTM E 2485 (formerly EIMA 101.01)	ANSI/EIMA 99-A-2001 60 cycles: No deleterious effects <sup>3</sup>	90 cycles: No deleterious effects <sup>3</sup>
	ASTM E 2485 ICC – ES Proc. (AC212)	ICC: 10 cycles No deleterious effect <sup>3</sup>	10 cycles: No deleterious effects <sup>3</sup>
Mildew Resistance	ASTM D 3273	ANSI/EIMA 99-A-2001 28 days: No growth	60 days: No growth
Salt Spray Resistance	ASTM B 117	ICC and ANSI/EIMA 99-A-2001 300 hours: No deleterious effects <sup>3</sup>	1000 hours: No deleterious effects <sup>3</sup>
Water Resistance	ASTM D 2247	ICC and ANSI/EIMA 99-A-2001 14 days: No deleterious effects <sup>3</sup>	42 days: No deleterious effects <sup>3</sup>
Abrasion Resistance	ASTM D 968 Method A Falling Sand	ANSI/EIMA 99-A-2001 528 quarts (500 liters): No deleterious effects <sup>3</sup>	1057 quarts (1000 liters): No deleterious effects <sup>3</sup>
	ASTM D 4060 Taber Abrasion (1 kg load)	No ICC or ANSI/EIMA Criteria	1000 cycles: .83 mg mass loss
Adhesion to Concrete	ASTM D 4541	ICC and ANSI/EIMA 99-A-2001: 15 psi minimum	>200 psi
Tensile Bond	ASTM C 297/E 2134 (formerly EIMA 101.03)	ICC and ANSI/EIMA 99-A-2001: 15 psi minimum	>25 psi

1. Testing referenced is based on Quarzputz Pastel Base.

2. Finish applied over aluminum panels, bent on cylindrical mandrels as described in ASTM D 522 Method B. Lower diameter indicates higher flexibility.

3. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification.

4. Delta E is total color difference, including yellowing, lightening, darkening, changes in red, blue, and green color values. Finish exposed to 5,000 hours of QUV prior to evaluating Delta E.

Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of Dryvit Systems, Inc. products as of the date of publication of this document and is presented in good faith. Dryvit Systems, Inc. assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact Dryvit Systems, Inc.

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Dryvit Systems, Inc.  
One Energy Way | West Warwick, RI 02893  
(800) 556-7752 | [www.dryvit.com](http://www.dryvit.com)

### Pigmented Acrylic Primer For Dryvit Finishes

#### Description

Color Prime is a water-based pigmented acrylic primer. It can be used over a variety of substrates providing a flat, uniformly absorbent, color-coordinated surface for application of Dryvit exterior and interior finishes. Color Prime is available in all of our standard colors as well as custom colors.

#### Uses

Color Prime is recommended for the surface preparation of drywall, concrete, masonry and stucco to color coordinate the substrate with the selected Dryvit finish. When priming to reduce suction of stucco prior to direct application of a Dryvit finish, Color Prime should be diluted with 2 gal (7.6 L) of water per pail.

#### Coverage

Approximately 1500 ft<sup>2</sup> (140 m<sup>2</sup>) per 50 lb (23 kg) pail, depending upon surface roughness, porosity of the substrate and application technique.

#### Properties

**Drying Time** - The drying time of Color Prime is dependent upon the air temperature and relative humidity. Under average drying conditions, [70 °F (21 °C), 55% R.H.], Color Prime is dry to the touch in 1/2 hour and sufficiently dry for application of finish in 2 hours. Protect from rain for at least 4 hours.

#### Application Procedure

**Job Conditions** - Air and surface temperature for application of Color Prime must be 40 °F (4 °C) or higher and must remain so for a minimum of 24 hours.

**Temporary Protection** - Shall be provided at all times until the base coat, finish and permanent flashings, sealants, etc. are completed to protect the wall from weather and other damage.

**Surface Preparation** - Surfaces shall not be below 40 °F (4 °C) and must be clean, dry, structurally sound and free of efflorescence, grease, oil, form release agents and curing compounds. On painted surfaces, remove all blistered or peeling paint to a sound substrate. Remove all gloss by sanding.

**Mixing** - Stir to a smooth, homogeneous consistency. When Color Prime is thinned when used over stucco, it must be mixed continuously during application to ensure color uniformity.

**Application** - Color Prime can be applied using a brush, paint roller or spray equipment.

**Clean Up** - Clean tools with water while Color Prime is still wet.

#### Storage

Color Prime must be stored at a minimum of 40 °F (4 °C) and a maximum of 100 °F (38 °C) in tightly sealed containers protected from weather and out of direct sunlight.

#### Cautions and Limitations

- Avoid applying Color Prime in direct sunlight. Always work on the shady side of the wall or protect the area with appropriate shading material.

#### Technical and Field Services

Available upon request.

## 4.3 RFI'S



SpawGlass Contractors, Inc.

1111 Smith Rd

Austin, TX 78721

(512) 719-5251

## Request For Information

0042

Printed On: 06/10/2020

Page 1 of 1

**Subject:** Backfill Around Tunnel Chamber

**Date:** 06/10/2020

**Project:** UT Seay Building Addition

**Job:** 3018105

**Address:** 108 E Dean Keeton St

**Required:** 06/17/2020

Austin TX 78712

**Est. Cost Impact :** \$ Potentially

**Phone:** **Fax:**

**Est. Days Impact:** Potentially

**To:** Steve Bruppacher

BSA Lifestructures

**From:** SpawGlass Contractors, Inc. **Tyler Patton**

### Request

Reference the attached documents.

Due to the partially exposed piers at C.3 and C.4 to excavate and install the tunnel chamber foundation & walls, it has been discussed to backfill the tunnel chamber walls 5' with flowable fill. Please advise if this is correct and confirm the height of the flowable fill.

Attached is the detail discussed during the meeting, when back filling a portion of the wall with flowable fill. Currently per the drawings the sheet applied waterproofing and drainage board will be installed on the back side of the wall, terminating to the blindside waterproofing at the base of the wall. It was discussed to install the french drain tight to the wall, as marked up in the attached pdf, while continuing to wrap it in filter fabric. After the waterproofing and sub surface drain is complete, the safety trench box will be removed so that the area can be back filled with flowable fill. The flowable fill will be installed at a total height of 5'. Any fill required above the flowable fill will defer back to the drawings, ie drainage rock or select fill. Please confirm this is acceptable at this condition, and is intended to occur on the three side of the tunnel chamber walls

### Suggestion

**Cost Impact:** Potentially

**Cost Amount:**

**Schedule Impact:** Potentially

**Days:**

**Answer**  **Accept Suggestion**

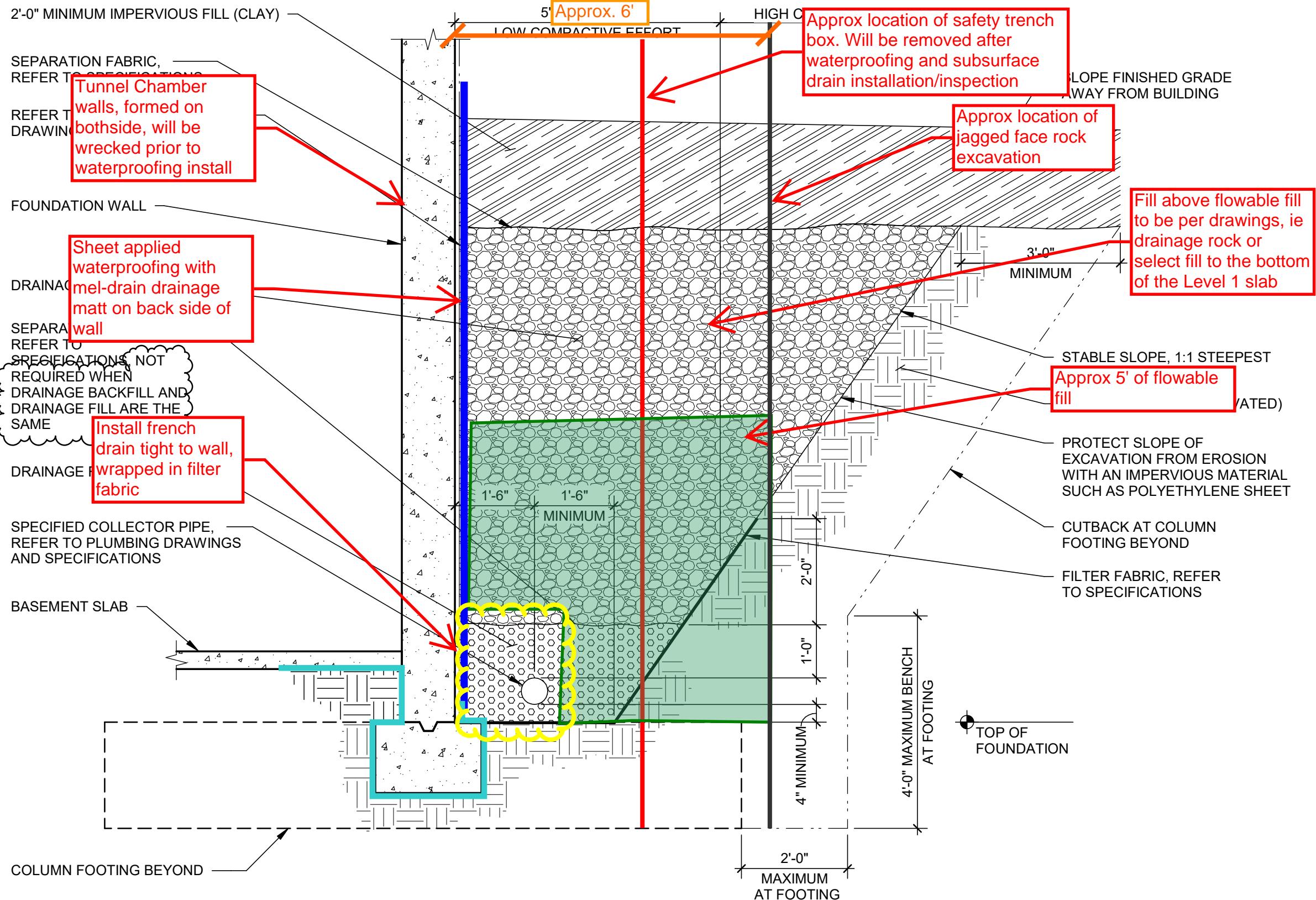
zsc recommends this is reviewed by the civil engineer to determine the functionality of the french drainage system if the fill material is changed. This will not have any affect on the waterproofing membrane as this material does not require a certain degree of compaction. However, we recommend the french drain remains fully operational to disperse ground water in a timely fashion. - daniel hodge 2020-06-11

### Distribution:

**Answered By:**

**Signed:** \_\_\_\_\_

**Date:**



# PRODUCT DATA

NO. 714

W. R. MEADOWS®

SEALIGHT®

From Submittal 071326-001

BER 2013

(Supersedes July 2012)

## MEL-ROL®

### Rolled, Self-Adhering Waterproofing Membrane

#### DESCRIPTION

MEL-ROL waterproofing system is a flexible, versatile, dependable, roll-type waterproofing membrane. It is composed of a nominally 56 mil thick layer of polymeric waterproofing membrane on a heavy duty, four-mil thick, cross-laminated polyethylene carrier film. The two components are laminated together under strict quality-controlled production procedures.

A handy overlap guideline is printed 2 ½" (63.5 mm) in from the material edge on each side to assure proper overlap coverage and to assist in maintaining a straight application. Special exposed polymeric membrane strips are provided on both sides for positive membrane-to-membrane adhesion in the overlap area. The membrane strips are protected by a pull-off release strip. All components of the MEL-ROL waterproofing system work together to provide a cost-effective, positive waterproofing system that's quick and easy to apply.

W. R. MEADOWS accessory products included in the MEL-ROL waterproofing system are: BEM, MEL-ROL LIQUID MEMBRANE, MEL-PRIME™ adhesive (solvent-based and water-based), POINTING MASTIC, DETAIL STRIP, CATALYTIC BONDING ASPHALT, TERMINATION BAR, PROTECTION COURSE and MEL-DRAIN™ drainage board.

#### USES

MEL-ROL waterproofing system provides a cost-effective answer to properly waterproof foundations, vertical walls, and below-grade floors in residential and commercial construction. It is equally effective for use as between-the-slab waterproofing on plaza decks, parking decks, and structural slabs. Use it as a waterproofing membrane to isolate mechanical and electronic rooms, laboratories, kitchens, and bathrooms. MEL-ROL offers positive protection when "wrapped around" major rapid transit, vehicular, utility, and pedestrian tunnel projects. MEL-ROL can also be used on insulated concrete forms (ICF).

Installation of PROTECTION COURSE from W. R. MEADOWS is recommended before backfilling. MEL-ROL can also be used with drainage boards when specified.

#### FEATURES/BENEFITS

- Provides cost-effective, flexible, versatile, dependable, positive waterproofing protection against damaging moisture migration and the infiltration of free water.
- Offers a quick and easy-to-apply system for maximum productivity.
- Special membrane-to-membrane adhesion provides additional overlap security.
- Meets or exceeds the test requirements of all currently applicable specifications.
- Components work together for positive waterproofing protection.
- Handles with ease on the jobsite.
- Available in a low temperature version for use when air and surface temperatures are between 20° F (-7° C) and 60° F (16° C). An extra-low temp version is also available, ideal for application in extra-low temperatures down to 0° F (-18° C).

#### PACKAGING

38.5" (977.9 mm) wide x 62.5' (19.1 m) long, one roll per carton.

#### COVERAGE

Provides 200 ft.<sup>2</sup> (18.6 m<sup>2</sup>) per roll. Gross coverage is 200 ft.<sup>2</sup> (18.6 m<sup>2</sup>). [Net coverage is 187.5 ft.<sup>2</sup> (17.4 m<sup>2</sup>) with overlap of 2 ½" (63.5 mm).]

#### STORAGE AND HANDLING

Store membrane cartons on pallets and cover if left outside. Keep materials away from sparks and flames. Store where temperature will not exceed 90° F (32° C) for extended periods of time.

#### SPECIFICATIONS

- A.R.E.M.A.® Specifications Chapter 29, Waterproofing
- LARR Report 26022

#### APPLICATION

**Surface Preparation ...** Concrete should be cured at least 72 hours, be clean, dry, smooth, and free of voids. Repair spalled areas; fill all voids and remove all sharp protrusions.

CONTINUED ON REVERSE SIDE...

## MEL-ROL COMBINES POSITIVE WATERPROOFING PROTECTION WITH EASE OF HANDLING

### EXCLUSIVE FEATURES

A handy overlap guideline coverage and assisting in applying the special, easy-to-remove release strip. Exposed polymeric membrane strips are provided on both sides of MEL-ROL for positive membrane-to-membrane adhesion in the overlap area ... note the detail, as shown in inset photo.

**From Submittal 071326-001**

suring proper overlap  
brane is protected by a  
cted by a pull-off

### TECHNICAL DATA

PROPERTY	TYPICAL VALUE	TEST METHOD
COLOR ... Carrier Film Polymeric Membrane	White Black	
THICKNESS ... Carrier Film Polymeric Membrane	4 mils 56 mils	
TENSILE STRENGTH ... Carrier Film Membrane	5900 psi min. (40.71 MPa) 460 psi (3230 KPa)	ASTM D 412 (Die C)
ELONGATION	971.3%	ASTM D 412
LOW TEMP CRACK BRIDGING 100 Cycle -25° F (-32° C)	Pass	ASTM C 836
PEEL ADHESION	11.8 lb./in. (2068 N/m)	ASTM D 903
LAP ADHESION	8.62 lbf/in. (1508.5 N/m)	ASTM D 1876
WATER VAPOR PERMEABILITY	0.036 Perms	ASTM E-96, B
WATER ABSORPTION	0.1%, 72 hrs. max.	ASTM D570
HYDROSTATIC RESISTANCE	Equiv. to 230.9" (70.38 m) of water	ASTM D 5385
PUNCTURE RESISTANCE	48.24 lbf (214.6 N)	ASTM E 154
EXPOSURE TO FUNGI	Pass, 16 weeks	Soil Test
FLEXIBILITY @ -20° F (-29° C)	Pass	ASTM D 1970

### MEL-ROL IS QUICK AND EASY TO APPLY

**Temperature** ... Apply in dry, fair weather when the air and surface temperatures are above 40° F (4° C). Do not apply to frozen concrete.

MEL-ROL LOW TEMP can be used when air and surface temperatures are between 20° F (-7° C) and 60° F (16° C).

**Surface Conditioning** ... Apply MEL-PRIME adhesive to surfaces that will be covered within one working day. If left exposed overnight, additional adhesive must be applied. Follow all instructions and precautions on containers.

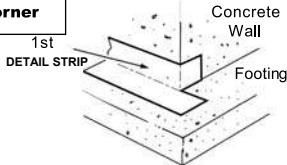
REMOVE release paper from MEL-ROL from the top edge of the roll and firmly press exposed area to the wall. Remove the release paper from the rolls in a downward direction, pressing MEL-ROL into place on the wall.

**Footing Details** ... Use DETAIL STRIP for impaction sheet coverage. First, fold strips lengthwise and then cut at the fold. Material is then ready to install as 4 ½" (114.3 mm) strips on either side of the rebar. Any excess can be turned down on the face of the footing. Next, fill the voids around rebars in the keyway with CATALYTIC BONDING ASPHALT. Pour the walls. Install DETAIL STRIP horizontally along the wall where it meets the footing, placing half the material up the wall and the other half onto the footing. Extend the material 4 ½" (114.3 mm) beyond outside corners. Slit extended portion of DETAIL STRIP lengthwise. Place the horizontal flap out onto the footing and bend the vertical flap around the wall. (See Diagram A.) Repeat this procedure in the opposite direction as shown in Diagram B.

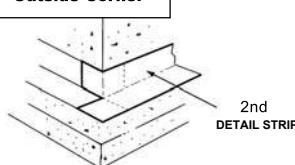
MEL-ROL can be applied to concrete, masonry surfaces, wood, insulated wall systems, and metal. All substrates must be clean, dry, and free of all surface irregularities.

**Horizontal Application** ... Remove release paper on edge, then position the MEL-ROL membrane. Pull balance of release paper off, running the roll from low to high points, so all laps will shed water. Stagger end laps and overlap all seams at least 2 ½" (63.5 mm). Apply a double-thickness of the MEL-ROL membrane over construction, control, all expansion joints and over cracks greater than 1/16" (1.59 mm) wide.

**DIAGRAM A**  
Outside Corner

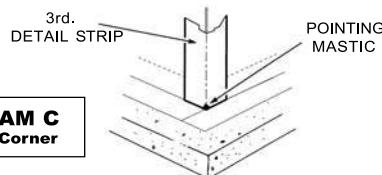


**DIAGRAM B**  
Outside Corner



# From Submittal 071326-001

**Vertical Wall Application ...** Masonry walls may require the application of a cementitious parge-coat. Allow the parge-coat to dry before priming and applying MEL-ROL. When applied, the parge-coat will produce a smooth, uniform, and well-bonded surface. Remove release paper, then apply vertically in lengths approximately 8' (2.44 m) long over the top of the horizontal DETAIL STRIP at the footing. Overlap seams at least 2 1/2" (63.5 mm). Tightly butt edges of membrane and apply POINTING MASTIC in corner applications. (See Diagram C.)

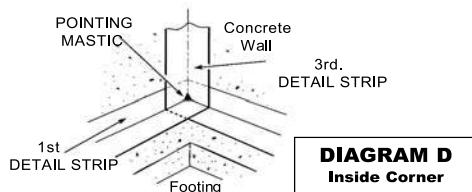


**DIAGRAM C**  
Outside Corner

To the top terminations, apply POINTING MASTIC at least 1/8" (3.18 mm) thick and 1" (25.4 mm) wide. As an option, TERMINATION BAR may be used to mechanically fasten the membrane.

**Hand-Rub and Roll Press ...** Once positioned, immediately hand-rub the MEL-ROL membrane firmly to the surface, removing any bubbles or wrinkles, then pressure roll the complete surface to assure positive adhesion.

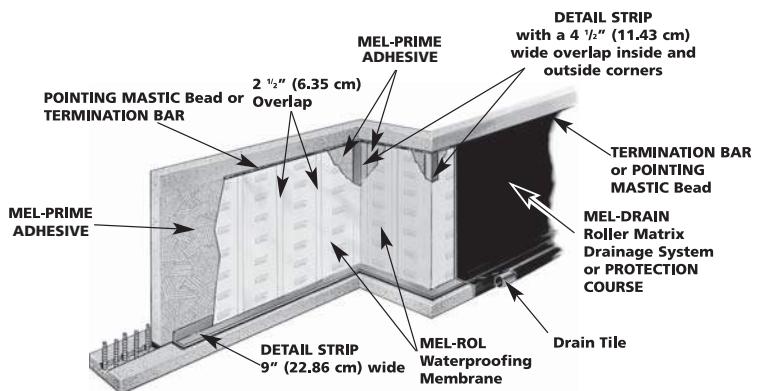
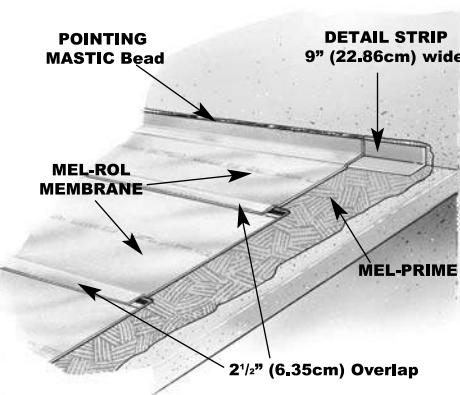
**Inside Corners ...** Before MEL-ROL is applied, place a vertical DETAIL STRIP on inside corners extending the material 4 1/2" (114.3 mm) beyond each side of the corner. (See Diagram D.) Terminate at the footing and finish the corner with POINTING MASTIC.



**DIAGRAM D**  
Inside Corner

**Outside Corners ...** Bend DETAIL STRIP vertically over the outside corner and extend 4 1/2" (114.3 mm) beyond each side of the corner. Terminate the material at the footing. Finish the corner with POINTING MASTIC. (See Diagram C.)

**Drains and Protrusions ...** All protrusions should be sealed with two layers of membrane applied at least 6" (152.4 mm) in all directions. Seal all terminations with POINTING MASTIC. Around drains, apply two layers of MEL-ROL and put a bead of POINTING MASTIC between the membrane and clamping rings and at all terminations, drains, and protrusions. See ASTM D 5898.



**Inspect and Repair ...** A thorough inspection should be made before covering and all necessary repairs made immediately. Tears and inadequate overlaps should be covered with MEL-ROL ... slit fish mouths and patch. Seal edges of all patches with POINTING MASTIC. Where applicable, horizontal applications can be flood-tested for 24 hours. All leaks should be marked and repaired when membrane dries.

**Protect the Membrane ...** on all vertical and horizontal installations with the immediate application of PROTECTION COURSE if no drainage system is used, or MEL-DRAIN. To secure PROTECTION COURSE, use POINTING MASTIC as an adhesive, and/or physically attach at the top edge using TERMINATION BAR. Backfilling should be done immediately, using care and caution to avoid damaging the waterproofing application.

## PRECAUTIONS

Avoid the use of products that contain tars, solvents, pitches, polysulfide polymers, or PVC materials that may come into contact with MEL-ROL. The use of MEL-ROL does not negate the need for relief of hydrostatic heads. A complete drain tile system should be placed around the exterior of footing and under slabs, as required.

# From Submittal 071326-001

## ACCESSORIES

**MEL-PRIME W/B** ... This water-based adhesive prepares concrete surfaces for MEL-ROL application. Arrives ready to use. Requires no additional mixing. MEL-PRIME W/B emits no unpleasant odors and works with all W. R. MEADOWS waterproofing membranes. Applies easily with manual sprayer or roller; VOC-compliant. MEL-PRIME W/B is for use at temperatures of 40° F (4° C) and up.

COVERAGE: 150 - 200 ft.<sup>2</sup>/gal. (3.7 - 4.9 m<sup>2</sup>/L)

PACKAGING: 1 Gallon (3.79 Liter) Units (4 units per carton), 5 Gallon (18.93 Liter) Pails

**MEL-PRIME** ... This solvent-based adhesive is for use at temperatures of 25° F (-4° C) and above. Apply by roller.

COVERAGE: 250-350 ft.<sup>2</sup>/gal. (6.14 to 8.59 m<sup>2</sup>/L) PACKAGING: 5 Gallon (18.93 Liter) Pails

**MEL-ROL LIQUID MEMBRANE** ... A two-component material used as a flashing to form fillets at corners and at protrusions. May be used as a substitute for POINTING MASTIC. Product can also be used in between walls and footings in lieu of DETAIL STRIP.

COVERAGE: As a fillet, approximately 135 lineal feet per gallon (10.87 m per liter) PACKAGING: 1 Gallon (3.79 Liter) Units, 4 Units per carton.

**BEM** ... BEM can be used as a fillet to round out 90° angles, such as the wall-footing connection, and can be used as a substitute for MEL-ROL LIQUID MEMBRANE.

COVERAGE: As a fillet, approximately 135 lineal ft./gal. (10.9 mL). PACKAGING: 28 Oz. (828 mL) Cartridges (12 per Carton)

**POINTING MASTIC** ... Used as an adhesive and for sealing top edge terminations on DETAIL STRIP and membrane, and to adhere PROTECTION COURSE.

COVERAGE: 1/8" x 1" x 200'/gal. (3.18 mm x 25.4 mm x 16.10 ml). PACKAGING: 5 Gallon (18.93 Liter) Pails, 29 Oz. (857.65 ml) Cartridges, 12/ctn.

**CATALYTIC BONDING ASPHALT** ... Easy-to-apply, one-component material for sealing around rebar.

COVERAGE: 5 gal./1000 ft.<sup>2</sup>/gal. (4.9 m<sup>2</sup>/L) PACKAGING: 5 Gallon (18.93 Liter) Pails.



## LIMITED WARRANTY

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

## Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection

with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.

**DETAIL STRIP** ... Convenient, easy-to-use DETAIL STRIP provides an economical and effective method for sealing vertical and horizontal butt joints, i.e. inside or outside corners and where walls and footings meet.

PACKAGING: 9" x 50' (.23 x 15.24 m) roll, 4 rolls per carton.

**PROTECTION COURSE** ... Use for vertical and horizontal applications. Adhere with POINTING MASTIC or use mechanical fasteners.

PACKAGING: 4' x 8' (1.22 x 2.44 m) panels.

**MEL-DRAIN** ... is a dimple-raised molded polystyrene fabric designed to provide high flow capacity to reduce hydrostatic pressure buildup around waterproofing and vaporproofing membranes. Choice of drain types are available for vertical, horizontal, and site applications. Use MEL-PRIME to condition surface prior to application of MEL-DRAIN.

**TERMINATION BAR** ... is a high strength, pre-formed, multi-purpose, plastic strip designed to support vertical membrane systems and PROTECTION COURSE at their termination point.

PACKAGING: 10' (Holes every 6" o/c, 2" from either end), 25 pieces per carton.

## MAINTAIN ENERGY EFFICIENCY

Wet insulating materials lose much of their "R" factor performance characteristics, reducing the energy efficiency of the structure. W. R. MEADOWS thermal and moisture protection products play a key role in *maintaining* the structure's energy efficiency and aiding in the integrity of other structural systems, such as insulation.

## LEED INFORMATION

May help contribute to LEED credits:

- EA Credit 1: Optimize Energy Performance
- IEQ Credit 3.1: Construction Indoor Air Quality Management Plan: During Construction
- IEQ Credit 7.1: Thermal Comfort - Design
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

For CAD details, most recent data sheet, further LEED information, and MSDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).

**MEL-DRAIN™**  
Rolled Matrix Drainage System**DESCRIPTION**

MEL-DRAIN drainage products combine geotextile filter fabrics with specially designed drainage cores. This geocomposite allows the passage of moisture through the fabric while preventing fine soils from entering the drainage channel. Various drain designs are available, depending on compressive strength and flow rate requirements. (An optional polyester backing film is available when used in conjunction with flexible waterproofing material.) The family of MEL-DRAIN products provides excellent protection and drainage performance for vertical, horizontal, or site drainage applications.

**USES**

Used in conjunction with a total W. R. MEADOWS moisture protection system, MEL-DRAIN is the ideal choice for enhanced waterproofing protection of basement walls, plaza decks, earth-sheltered homes, commercial buildings, retaining walls, underground parking, site drainage, etc.

**FEATURES/BENEFITS**

- High flow capacity, without clogging/Relieves hydrostatic pressure buildup.
- High compressive strength/Dependable, long life performance.
- Easy to install; durable under jobsite conditions/Lower total installed cost.
- Chemically resistant to all naturally occurring soil conditions/Wide variety of applications.
- Provides protection for waterproofing materials/Enhances waterproofing performance.
- Part of a complete W. R. MEADOWS moisture protection system/Worry-free, single-source solution.

**INSTALLATION**

For vertical, below-grade applications, unroll MEL-DRAIN with flat, core side against the wall or waterproofing material. POINTING MASTIC or MEL-PRIME™ from W. R. MEADOWS are excellent adhesives compatible with this installation. The flat side core lip is overlapped to provide a continuous drainage layer. Extra filter fabric is provided at the edges for overlapping with the next sheet. MEL-DRAIN is easily cut with construction knives or scissors.

For horizontal applications, unroll and overlap so that water runs with overlap. Add appropriate ballast as needed to hold down drainage board.

**PRECAUTIONS**

Store materials in protected environment until time of installation. Materials not shipped in UV-resistant bags must be stored indoors or under separate UV-protective cover to protect materials from exposure to direct sunlight. UV-resistant bagged materials may be stored in outdoor UV-exposed environments for a cumulative maximum of 180 days. Limit unpackaged material UV exposure to a cumulative maximum of 14 days during installation. Do not install materials during high wind events. Do not expose materials to chemicals that are strong acids, strong bases, or high in solvents content. Protect materials from site construction damage, flames, and other environmental conditions that may damage the materials. It is not recommended that installation take place when the ambient temperature is below 20° F (-6.6° C) or above 100° F (37.8° C). Do not install in applications where the long term operational temperature is expected to be below -20° F (-18.9° C) or above 150° F (65.6° C).

**CONTINUED ON REVERSE SIDE ...**

# From Submittal 071326-001

MEL-DRAIN PRODUCTS		ASTM Test Method	Unit of Measure	5012	5035	7555	7955	9055	9072
				5012-B	5035-B	7555-B	7955-B	9055-B	9072-B
<b>Physical Properties<sup>1</sup></b>									
<b>FABRIC</b>									
Material <sup>2</sup>				PP, NPNW	PP, NPNW	PP, WM	PP, WM	PP, NPNW	PP, NPNW
Water Flow Rate	D 4491	gpm/ft <sup>2</sup>	165	165	160	145	90	90	
		Lpm/m <sup>2</sup>	6,724	6,724	6,520	5,907	3,668	3,668	
Grab Tensile Strength	D 4632	lbs	100	100	385x220	365 x 200	205	205	
		N	445	445	1,713x979	1624 x 890	912	912	
CBR Puncture	D 6241	lbs	275	275	725	675	600	600	
		kN	1.22	1.22	3.22	3.00	2.66	2.66	
Apparent Opening Size	D 4751	sieve	70	70	45	40	80	80	
		mm	0.210	0.210	0.350	0.43	0.177	0.177	
<b>CORE</b>									
Material <sup>2</sup>				HIPS	HIPS	HIPS	PP	HIPS	HIPS
Thickness	D 1777	in	0.25	0.44	0.44	0.40	0.44	0.25	
		mm	6.35	11	11	10	11	6.35	
Compressive Strength	D 1621	psf	11,000	15,000	18,000	18,000	18,000	30,000	
		kPa	527	718	862	862	862	1,436	
Flow Rate <sup>3</sup>	D 4716	gpm/ft	12.5	17	21	21	21	13	
		Lpm/m	155	211	261	261	261	161	
<b>COMPOSITE</b>									
Recycled Content <sup>4</sup>		%	70	75	74	70	65	65	
Roll Size		ft	4x50	4x50	4x50	6x50	4x50	4x50	
Roll Weight		lbs	28, 29-B	38, 39-B	47	73, 74-B	53, 50-B	49, 50-B	

<sup>1</sup> Unless otherwise noted, all physical and performance properties listed are Typical Values as defined in ASTM D 4439.

<sup>2</sup> PP = Polypropylene; HIPS = High Impact Polystyrene; NPNW = Needle-Punched Nonwoven; WM = Woven Monofilament.

<sup>3</sup> In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.

<sup>4</sup> Post-industrial recycled content by weight.

<sup>-B</sup> products include a polymeric backing film.

W. R. MEADOWS offers MEL-DRAIN products with AASHTO Classified Geotextiles. All technical information contained in this document is accurate as of time of publishing. W. R. MEADOWS reserves the right to make changes to products and literature without notice. For more detailed information, please request specific MEL-DRAIN model.

## LEED INFORMATION

May help contribute to LEED credits:

- EAp2: Minimum Energy Performance
- EAc2: Optimize Energy Performance
- MRc9: Construction and Demolition Waste Management

For most recent data sheet, further LEED information, and SDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).



## LIMITED WARRANTY

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

## Disclaimer

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with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.

# PRODUCT DATA

From Submittal 071326-001

W. R. MEADOWS®

SEALIGHT®

MasterFormat: 07 13 53

NO. 751

JANUARY 2011  
(Supersedes July 2004)

## MEL-PRIME™ Solvent-Based VOC Adhesive

### DESCRIPTION

MEL-PRIME is a solvent-based, ready-to-use adhesive for W. R. MEADOWS membrane systems. It is red to reddish-brown in color.

### USES

MEL-PRIME simultaneously prepares and dustproofs new and old and vertical and horizontal surfaces in one easy, economical operation. MEL-PRIME is designed for surfaces to receive waterproofing and air/vapor barrier systems from W. R. MEADOWS. Use MEL-PRIME on surfaces to receive applications of MEL-ROL®, MEL-ROL PRECON™, MEL-DEK™, AIR-SHIELD™ and/or AIR-SHIELD THRU-WALL FLASHING from W. R. MEADOWS.

### FEATURES/BENEFITS

- High solids for optimum performance.
- Ready to use ... no mixing or dilution required.
- For exterior vertical and horizontal applications.

### PACKAGING

1 Gallon (3.79 Liter) Can  
5 Gallon (18.9 Liter) Pail

### COVERAGE

250 to 300 sq. ft./gal. (6.14 to 7.37 sq. m/L)

### SHELF LIFE

Shelf life is three years when stored indoors and in original, unopened containers at temperatures between 40 - 90° F (4 - 32° C).

### APPLICATION

**Surface Preparation ...** All surfaces to receive adhesive must be clean, dry, smooth, and free of all voids. Fill all voids and remove sharp protrusions. When used on concrete, concrete should be cured at least 72 hours. For additional substrate surface preparation requirements, see instructions for applying MEL-ROL, MEL-ROL PRECON, MEL-DEK, and/or AIR-SHIELD.

**NOTE:** Metal surfaces must also be clean, dry, and free of loose paint, rust, or other contaminants.

**Application Method ...** Apply MEL-PRIME with a roller or brush at a coverage rate of 250 to 300 sq. ft./gal (6.14 to 7.37 sq. m/L). Apply only to the area to be covered with the membrane during the working day. Areas not covered with a membrane in 24 hours must be re-applied.

**Drying Time ...** Allow to dry for one hour or until the surface feels tacky but does not pick up when touched. If the work area is very dusty, apply membrane as soon as possible after MEL-PRIME is dry.

**Cleanup ...** MEL-PRIME may be cleaned with mineral spirits.

CONTINUED ON REVERSE SIDE ...

# From Submittal 071326-001

## PRECAUTIONS

Do not apply MEL-PRIME when rain is imminent, or on damp or frost-covered surfaces. Avoid allowing MEL-PRIME to puddle – this will lengthen drying time. Do not dilute; use as is.

## HEALTH HAZARDS

This product is flammable. Ignition sources should be removed prior to product use. Avoid direct contact with the product. Direct contact may cause mild to moderate irritation of the eyes and skin. Product vapors may also cause transient central nervous system depression. Refer to Safety Data Sheet for complete health and safety information.

## LEED INFORMATION

May help contribute to LEED credits:

- IEQ Credit 3.1: Construction Indoor Air Management Plan – During Construction
- IEQ Credit 7.1: Thermal Comfort - Design
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

**For most recent data sheet, further LEED information, and MSDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).**

## LIMITED WARRANTY



W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

## Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.



SpawGlass Contractors, Inc.

1111 Smith Rd

Austin, TX 78721

(512) 719-5251

## Request For Information

0081

Printed On: 10/20/2020

Page 1 of 1

**Subject:** Cast Stone at Window Sills

**Date:** 10/20/2020

**Project:** UT Seay Building Addition

**Job:** 3018105

**Address:** 108 E Dean Keeton St

**Required:** 10/20/2020

Austin TX 78712

**Est. Cost Impact :** \$ Potentially

**Phone:** **Fax:**

**Est. Days Impact:** Potentially

**To:** Ramon Arteaga  
BSA Lifestructures

**From:** SpawGlass Contractors, Inc.      Tanner Hawkins

### Request

Reference the attached.

During the review of the Mockup it was discussed to change the profile of some cast stone because of a small gap/shadow created between the steel flashing and cast stone.

Please advise if the cast stone profile should be changed per the attached. If not, please advise if any additional measure should be taken at this condition.

### Suggestion

**Cost Impact:** Potentially

**Cost Amount:**

**Schedule Impact:** Potentially

**Days:**

**Answer**  **Accept Suggestion**

### Distribution:

**Answered By:**

**Signed:** \_\_\_\_\_

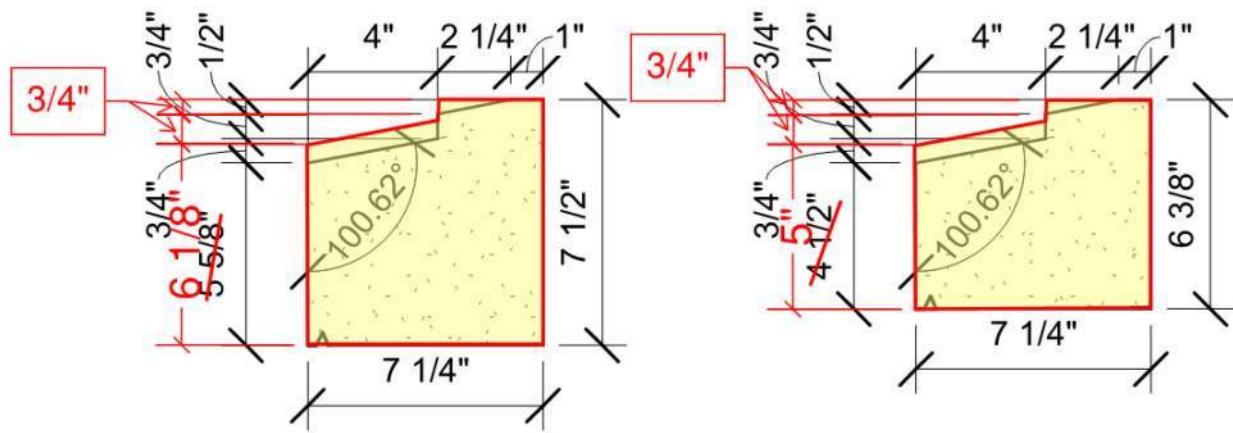
**Date:**

**Proposed changes have no impact on the integrity of the building envelope. AOR to determine aesthetic changes.**

**ZSC-Darryl Castleberry**

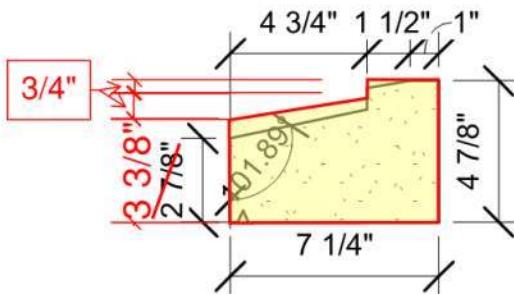
**2020/10/28**

# Cast Stone Modifications discussed

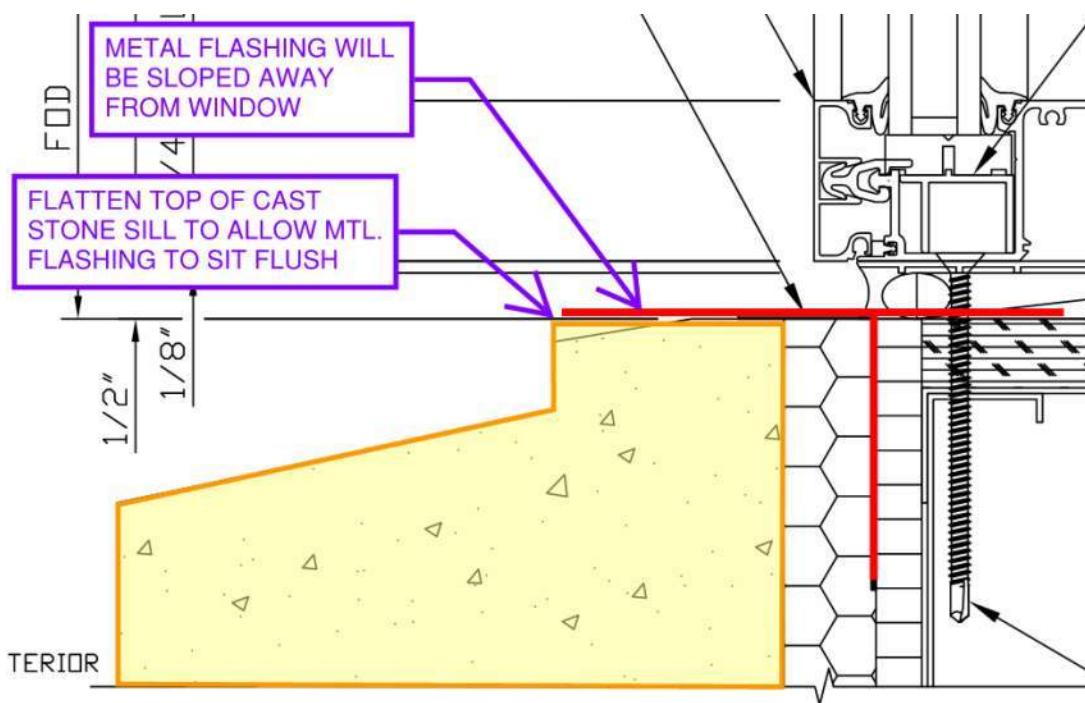


CS2

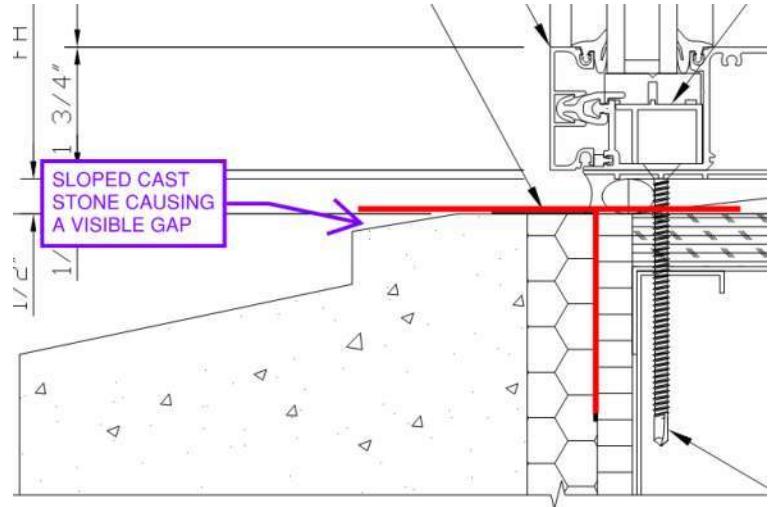
CS2.1



CS8



## Current condition at mock up



### BSA Site Observation Report - 9.24.20 - Mock Up

# BSA

1. It was discussed that the frame was damaged and the metal flashing had been re-worked several times which left it uneven and bent.
2. The sealant joints on all sides were uneven and need to be as straight and crisp as possible.
3. BSA to review with SG and Zero Six the possibility of modifying the cast stone sill profile to allow the metal flashing to sit flush with the cast stone. Currently where the cast stone and window meet, the cast stone is sloped. Where the metal flashing cast stone meet there is a visible gap.

PHOTOS ON FOLLOWING PAGES



SpawGlass Contractors, Inc.

1111 Smith Rd

Austin, TX 78721

(512) 719-5251

# Request For Information

0085

Printed On: 12/01/2020

Page 1 of 1

**Subject:** Modified-Bituminous Roofing System

**Date:** 11/18/2020

**Project:** UT Seay Building Addition

**Job:** 3018105

**Address:** 108 E Dean Keeton St

**Required:** 11/23/2020

Austin TX 78712

**Est. Cost Impact :** \$ Potentially

**Phone:** **Fax:**

**Est. Days Impact:** Potentially

**To:** Ramon Arteaga  
BSA Lifestructures

**From:** SpawGlass Contractors, Inc. **Tanner Hawkins**

## Request

Reference the attachments.

1. Currently the Specification Section 07 52 16 calls out for a 3-ply Modified Bituminous Membrane System, however the Basis-Of-Design John Mansville 2FID-HW CR is only a 2-ply system. Currently submitted is a GAF I-0-2-HGPFREC 2-ply system, please confirm a 2-ply system is acceptable.
2. Specification Section 07 52 16 also calls out for a fiberglass mat base sheet. The submitted GAF I-0-2-HGPFREC system uses a polyester mat and appears to be a superior product. The fiberglass mat also poses a potential safety and quality concern for the hot asphalt to melt the vapor barrier which occurs at 75% of the roof. Please confirm if it is acceptable to use the attached system in lieu of the fiberglass system.

## Suggestion

**Cost Impact:** Potentially

**Cost Amount:**

**Schedule Impact:** Potentially

**Days:**

## Answer Accept Suggestion

Specifications reference JM 2fid material; however calls out an interply to be installed between the base ply and cap ply which is not in line with the referenced B.o.d. zsc understands that the interply is typically not necessary with trying to reach the specified 20 year material warranty.

The submitted roofing system is a good product in comparison and in zsc's opinion, torch applied systems are preferred over hot applied due to various reasons. Final decision on acceptance of substitution to be provided by A/e.

Daniel Hodge  
2020 12 10

## Distribution:

Answered By:

Signed: \_\_\_\_\_

Date:

# SBS Heat-Weld Specifications

## 2FID-HW CR

**Two-Ply Heat-Welded Modified Bitumen Mineral-Surfaced Roofing System.** For use over Johns Manville (JM) insulation, approved decks, or other approved insulations on inclines up to 6" per ft (500 mm/m).

Materials per 100 ft<sup>2</sup> (9.29 m<sup>2</sup>) of roof area

Primer (if required): JM Concrete Primer 1 gal (3.8 l)

**Base Felts:**

DynaWeld Base

1 layer

**Cap Sheet Options:**

DynaWeld Cap FR CR

1 layer

### Energy and the Environment



	Initial	3-Yr. Aged
Solar Reflectance	0.76	0.61
Thermal Emittance	0.85	0.92
Rated Product ID	0662-0007	
Licensed Manufacturer ID	0662	
Classification	Production Line	

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building construction may vary.

Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating normal procedures.

### General

This specification is for use over any type of approved structural deck which is not nailable and which provides a suitable surface to receive the roof. Poured and precast concrete decks require priming with JM Concrete Primer prior to application of the first heat-welded modified bitumen ply. This specification is not to be used over poured or precast gypsum decks, lightweight insulating concrete decks or fills without JM insulation.

This specification is approved roof insulation suitable surface to refor any roof insulation installed in accordance detailed in the JM Co specification can als "Re-roofing" section Manual.

For heat weld applic of insulation must be deck and/or roof sub outlets numerous en and completely. Area are unacceptable an Guarantee.

**Note:** All general ins Industrial Roofing Sy specification.

Sarah M. & Charles E. Seay Building Addition  
University of Texas at Austin  
UT Project No. CPC 102-1219  
BSA Lifestructures #15830011

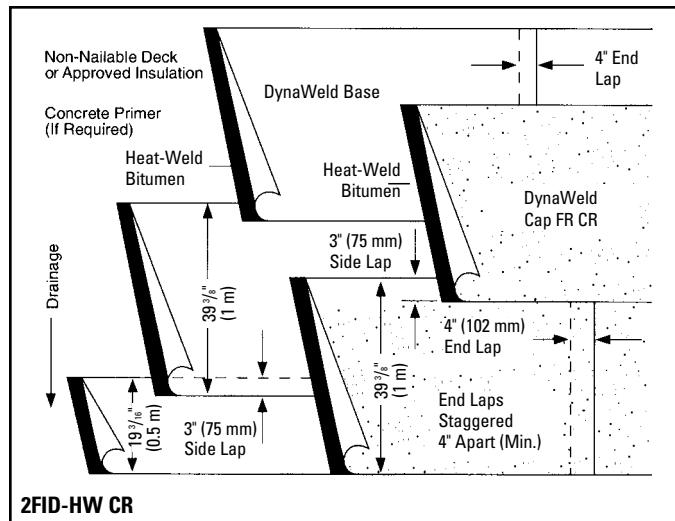
STYRENE-BUTADIENE-STYRENE (SBS) MODIFIED BITUMINOUS MEMBRANE ROOFING  
07 52 16 Page 6 of 16

#### 2.3 BASE SHEET MATERIALS

- A. SBS-Modified Bitumen Fiberglass Mat Base Sheet: ASTM D 6163/D 6163M, Type I, Grade S, SBS-modified asphalt sheet, reinforced with fiberglass fabric, smooth surfaced, suitable for heat-welded application method.
1. Basis of Design: Johns Manville, 2FID-HW-CRG
  2. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
    - a. CertainTeed Corporation.
    - b. Firestone Building Products.
    - c. Johns Manville; a Berkshire Hathaway company.
    - d. Siplast.

### Flashings

Flashing details can be found in Section 3 of the JM Commercial/Industrial Roofing Systems Manual.



### Application

On roof decks with slopes up to 1/2" per foot (124 mm/m), the roofing felts and modified bitumen sheets may be installed either perpendicular or parallel to the roof incline.

Heat weld a 19 7/16" (502 mm) wide piece of one of the base plies listed. The remaining plies are to be applied full width, with 3" (75 mm) side and 4" (102 mm) end laps over the preceding sheets.

Heat weld a full width piece of one of the cap sheets listed over the installed base felt. Subsequent sheets are to be applied in the same manner, with 4" (102 mm) side laps and 4" (102 mm) end laps over the preceding sheet.

Apply all sheets so that they are firmly and uniformly set, without voids. Using a propane torch, apply the flame to the surface of the coiled portion of the roll. Torch across the full width of the roll and along the lap area.

sheen and the burnoff will indication that the material is with subsequent rolls, maintaining compound flow will simplify the flame directed at the must be checked for good

lications, see Paragraph 31.0 of al Roofing Systems Manual. refer to Paragraph 24.0 of al Roofing Systems Manual.

Refer to the Material Safety Data Sheet and product label prior to using this product.



**Johns Manville**

Specified BOD System

## SBS Heat-Weld Specifications 2FID-HW CR (cont'd)

### Steep Slope Requirements

Special procedures are required on incline over  $\frac{1}{2}$ " per foot (41 mm/m). Refer to Paragraph 21.0 of Section 3d of the JM Commercial/Industrial Roofing Systems Manual.

### Finishing

It is important to be careful with scorch marks when applying the coated SBS sheets on the roof. However, if scorch marks are a concern of the building owner, consultant or applicator, then the marks could be dressed up with coating to give the roof surface a uniform white appearance. This is an optional step. JM recommends using a heavy nap roller, in a 4" (102 mm) width, to coat the exposed adhesive with a JM-recommended white acrylic coating.

Refer to the Material Safety Data Sheet and product label prior to using this product.

Project: UT Seay Building Addition

Attention: Tanner Hawkins

**RESPONSE TO SUBMITTAL No. 0277, Job 3016105, 07/24/2020**

1. Specification calls for ASTM D6163 (glass fiber reinforced) membrane, but an ATM D6164 (polyester reinforced) was submitted.

Upon completion of our research, the ASTM D 6164 meets the same specification as the JM Basis of Design. The only difference is in the reference to the polyester reinforcement rather than the fiberglass reinforcement of ASTM D 6163 listed in JM. The benefits of using the polyester membrane: It is a significant upgrade from the specifications. Because GAF is an Insulation Approved Manufacturer, the rolled goods would be as well. Lastly, there is no added cost for the upgrade to the System.

2. Specification calls for 3 layers, hot mop system, submitted system is 2 layers, torch applied with adhesive and mechanically attached insulation.

Because there are differing specifications, our efforts have been to provide a product that best meets the Owner's requirements. The JM SBS Heat-Weld Specifications 2FID-HW CR, which is the basis of design is not a 3-ply system (layers), however, the GAF HW Smooth is superior to JM Dynaweld Base. It is considered a better mat than the fiberglass mat in the JM Dynaweld base due to the tremendous puncture resistance and its ability to withstand high temperatures which lends itself to the predominant use of modified bitumen. Polyester can remain dimensionally stable during the torching application. The use of hot asphalt as an adhesive is outdated and results in a safety issue. In addition, hot asphalt will melt the vapor barrier over concrete which is 75% of the roof area.

3. Sheet S0001 has -48 PSF listed in the field zone for roof uplift, the assembly letter states the system submitted meets – 45PSF.

Refer to GAF System Letter, (page 2) of October 23, 2020:

"The above listed system will provide -67.5psf (135psf) of uplift resistance in the field of the roof; provided the roofing system is installed in accordance with NEMO ETC, LLC (SC-73) evaluation report #01506.11.04-R28 for FL5680 - R28, page 30 of 104." (See attached letter).



We protect  
what matters most®

SG: 075216-001 Submittal Response included  
for reference

**Technical Services**

1 Campus Drive  
Parsippany, NJ 07054

---

October 23, 2020

Kidd Roofing  
1212 East Anderson, Suite 200  
Austin, TX 78759

Subject: Contractor/System Certification

Project: UT Sarah & Charles Seay Bldg.  
Austin, TX

To Whom It May Concern:

Kidd Roofing of Austin, TX is a GAF Master Select roofing contractor for asphaltic, single-ply and restoration roofing systems and is eligible to obtain a GAF Diamond Pledge™ NDL Roof Guarantee for up to 20 years.

GAF specification I-0-2-HGPFR is eligible to obtain a 20 year Diamond Pledge™ NDL Roof Guarantee; provided all current GAF application requirements are followed and guarantee procedures are met.

**I-0-2-HGPFR – Structural Concrete Deck – Concrete Deck Area – R1**

**GAF SA Primer:** Prime the concrete deck using GAF SA primer in accordance with GAF application recommendations.

**GAF SA Vapor Retarder:** Install GAF SA vapor retarder, self-adhered in accordance with GAF application recommendations.

**EnergyGuard™ Polyiso Insulation:** Install two layers of 2.2" EnergyGuard™ polyiso insulation (R-25.2, 4' x 4' boards) using OlyBond 500™ insulation adhesive, as follows:

- Field: .75" -1" ribbons 12" o.c.
- Perimeter: .75" – 1" ribbons 6" o.c.
- Corners: .75" – 1" ribbons 4" o.c.

**EnergyGuard™ Tapered Polyiso Insulation:** Install EnergyGuard™ tapered polyiso insulation using OlyBond 500™ insulation adhesive, as follows:

- Field: .75" -1" ribbons 12" o.c.
- Perimeter: .75" – 1" ribbons 6" o.c.
- Corners: .75" – 1" ribbons 4" o.c.

**Securock® Gypsum-Fiber Roof Board:** Install ½" Securock® gypsum-fiber roof board using OlyBond 500™ insulation adhesive, as follows:

- Field: .75" -1" ribbons 12" o.c.
- Perimeter: .75" – 1" ribbons 6" o.c.
- Corners: .75" – 1" ribbons 4" o.c.

**Ruberoid® HW Smooth:** Install one ply of Ruberoid® HW Smooth, torch applied and adhered in accordance with GAF application recommendations.

**\*Ruberoid® EnergyCap™ HW Plus Granule FR:** Install Ruberoid® EnergyCap™ HW Plus Granule FR, torch applied and adhered in accordance with GAF application recommendations.

The above listed system will provide -180psf (360psf) of uplift resistance in the field of the roof; provided the roofing system is installed in accordance with NEMO ETC, LLC (C-69) evaluation report #01506.11.04 – R28 for FL5680 – R28, page 55 of 104.

#### **I-0-2-HGPFREC – Minimum 22ga 33ksi Steel Deck – Steel Deck Area – R2 (Option 1)**

**EnergyGuard™ Polyiso Insulation:** Simultaneously fasten two layers of 2.6" EnergyGuard™ polyiso insulation (R-30) to the steel deck using Drill-Tec™ #12 fasteners and 3" plates, as follows:

- Field: 20 fasteners per 4' x 8' board
- Perimeter: 30 fasteners per 4' x 8' board
- Corners: 40 fasteners per 4' x 8' board

**Securock® Gypsum-Fiber Roof Board:** Install ½" Securock® gypsum-fiber roof board using OlyBond 500™ insulation adhesive, as follows:

- Field: .75" -1" ribbons 12" o.c.
- Perimeter: .75" – 1" ribbons 6" o.c.
- Corners: .75" – 1" ribbons 4" o.c.

**Ruberoid® HW Smooth:** Install one ply of Ruberoid® HW Smooth, torch applied and adhered in accordance with GAF application recommendations.

**\*Ruberoid® EnergyCap™ HW Plus Granule FR:** Install Ruberoid® EnergyCap™ HW Plus Granule FR, torch applied and adhered in accordance with GAF application recommendations.

The above listed system will provide -60psf (120psf) of uplift resistance in the field of the roof; provided the roofing system is installed in accordance with NEMO ETC, LLC (SC-43) evaluation report #01506.11.04 – R28 for FL5680 – R28, page 25 of 104.

#### **I-0-2-HGPFREC – Minimum 22ga 33ksi Steel Deck – Entry Canopy**

**Securock® Gypsum-Fiber Roof Board:** Mechanically fasten ½" Securock® gypsum-fiber roof board to the steel deck using Drill-Tec™ #12 fasteners and 3" flat plates, as follows:

- Field: 16 fasteners per 4' x 8' board
- Perimeter: 24 fasteners per 4' x 8' board
- Corners: 32 fasteners per 4' x 8' board

**GAF SA Primer:** Prime the Securock® gypsum-fiber roof board using GAF SA primer in accordance with GAF application recommendations.

**GAF SA Vapor Retarder:** Install GAF SA vapor retarder, self-adhered in accordance with GAF application recommendations.

**EnergyGuard™ Tapered Polyiso Insulation Crickets:** Install EnergyGuard™ tapered polyiso insulation crickets as specified using OlyBond 500™ insulation adhesive, as follows:

- Field: .75" -1" ribbons 12" o.c.
- Perimeter: .75" – 1" ribbons 6" o.c.
- Corners: .75" – 1" ribbons 4" o.c.

**Ruberoid® HW Smooth:** Install one ply of Ruberoid® HW Smooth, torch applied and adhered in accordance with GAF application recommendations.



We protect  
what matters most®

SG: 075216-001 Submittal Response included  
for reference

**Technical Services**

1 Campus Drive  
Parsippany, NJ 07054

**\*Ruberoid® EnergyCap™ HW Plus Granule FR:** Install Ruberoid® EnergyCap™ HW Plus Granule FR, torch applied and adhered in accordance with GAF application recommendations.

The above listed system will provide -67.5psf (135psf) of uplift resistance in the field of the roof; provided the roofing system is installed in accordance with NEMO ETC, LLC (SC-73) evaluation report #01506.11.04 – R28 for FL5680 – R28, page 30 of 104.

\*Ruberoid® EnergyCap™ HW Plus Granule FR meets LEED® v4 credit requirements.

The above listed roofing systems are based on GAF guarantee requirements and are not intended to modify, negate or alter any requirements specified by the design professional or others.

If you have any further questions, please contact us at 1-800-766-3411.

Sincerely,

*Matthew Romero*

Matthew Romero  
Technical Services Representative



SpawGlass Contractors, Inc.

1111 Smith Rd

Austin, TX 78721

(512) 719-5251

## Request For Information

0087

Printed On: 12/30/2020

Page 1 of 1

**Subject:** Waterproofing Detail at Slab Edge

**Date:** 12/30/2020

**Project:** UT Seay Building Addition

**Job:** 3018105

**Address:** 108 E Dean Keeton St

**Required:** 01/08/2021

Austin TX 78712

**Est. Cost Impact :** \$ Potentially

**Phone:** **Fax:**

**Est. Days Impact:** Potentially

**To:** Ramon Arteaga  
BSA Lifestructures

**From:** SpawGlass Contractors, Inc. **Tanner Hawkins**

### Request

Reference the attached.

Currently detail 5/A311 shows the sheathing bypassing the concrete face, and terminating to the masonry shelf angle with the insulation running along the face as well. It has been discussed to apply waterproofing to the concrete and terminate to the shelf angle in lieu of adding the sheathing and hat channel at the concrete of levels 4 & 5. Please provide an acceptable detail at these conditions. Attached is a possible option from the manufacturer that is also a warrantable detail that applies air barrier to the face of the concrete and utilizes a cant bead and flexible flashing to terminate the concrete and/or shelf angle. The 2" cavity insulation would continue continuously on both sides of the shelf angle.

### Suggestion

**Cost Impact:** Potentially

**Cost Amount:**

**Schedule Impact:** Potentially

**Days:**

**Answer**  **Accept Suggestion**

**ZSC finds no exceptions to the detail proposed below. Please ensure that slab edge is free of voids and protrusions as outlined in the manufacturer's specifications.**

Darryl Castleberry - ZSC

2021/01/06

### Distribution:

**Answered By:**

**Signed:** \_\_\_\_\_

**Date:**



## Tremco General Observation Report

UT Seay

Complete

Project Name:	UT Seay
Location:	Austin Texas
Conducted on:	10th Dec, 2020 10:00 AM CST
Installer Company Name:	Chamberlin
Installer Contact:	Rolando Cardenas
Prepared by:	Mike Bader

## Tremco Contact Information

This document is for General Information and is not intended for Public Distribution.

**Tremco Commercial Sealants and Waterproofing Representative:**

Mike Bader 713-497-4809  
mbader@tremcoinc.com

## Tremco Observations:

This section will document observations made at the jobsite.

Are the Observations and Comments provided in this report based on visual observations made at the jobsite by the Tremco Representative that prepared this report?

N/A

The Observations and Comments provided in this report are based on information provided to the Tremco Representative that prepared this report via:

Photos provided by the contractor

## Tremco Product Observations and Comments:

### Observations and Comments:

#### Observations and Comments: 1

What type of Tremco product was utilized?

Tremco Urethane Sealant

Tremco ExoAir Impermeable Fluid-Applied System

Which Tremco product was utilized: (type product name)

Exoair110at, Dymonic 100

#### General Observations or comments:

Detail 5/A311, Tremco recommends using Exoair 110at and Dymonic 100 to flash this detail. This is a warrantable install per marks up details



Photo 1

## Appendix

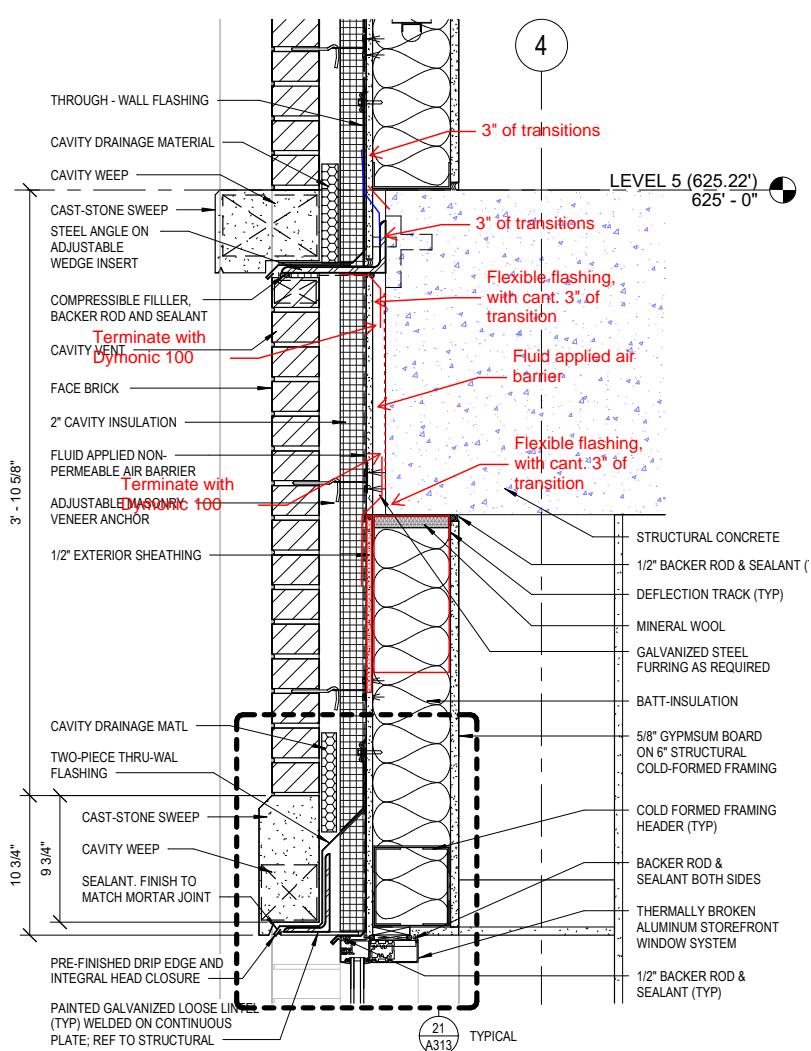
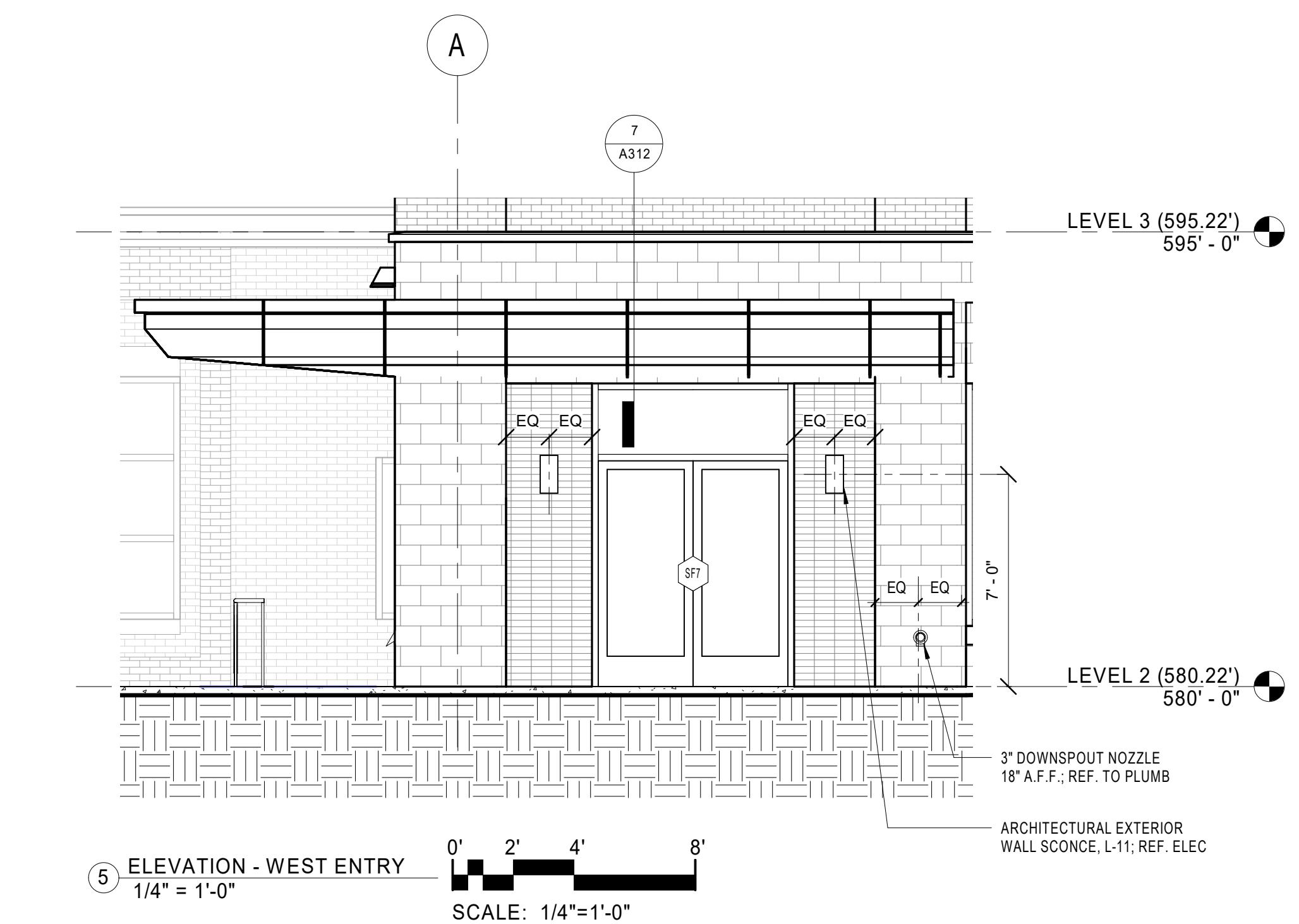
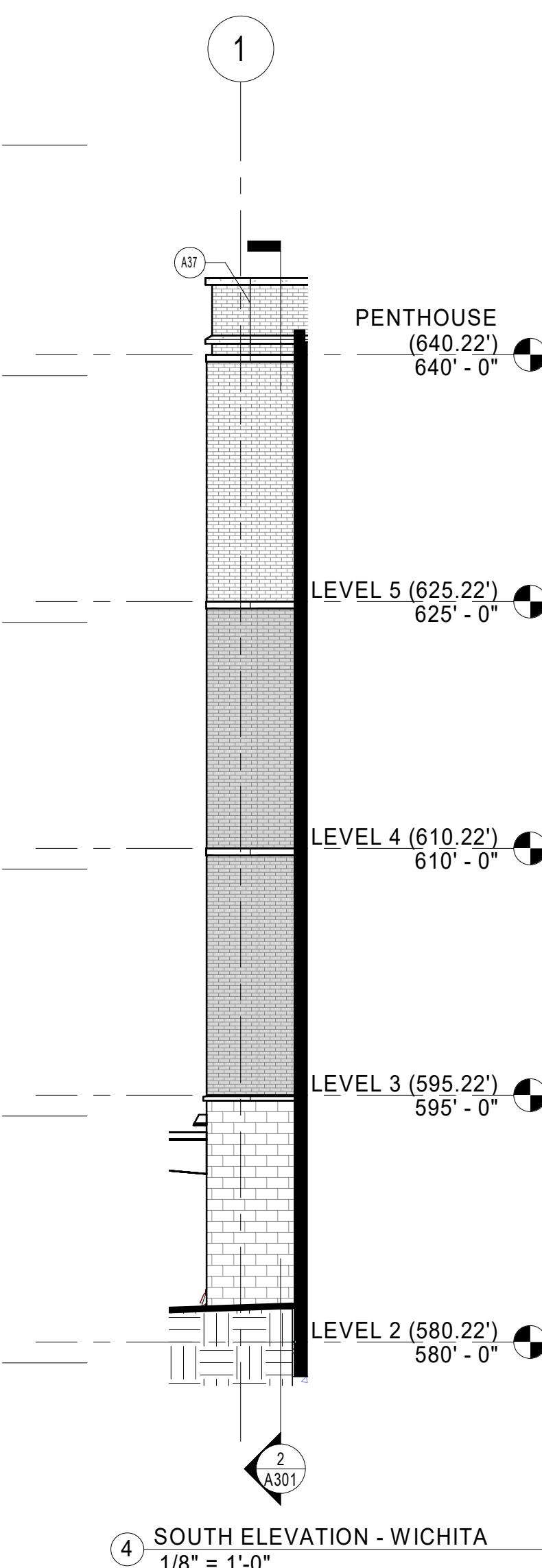


Photo 1



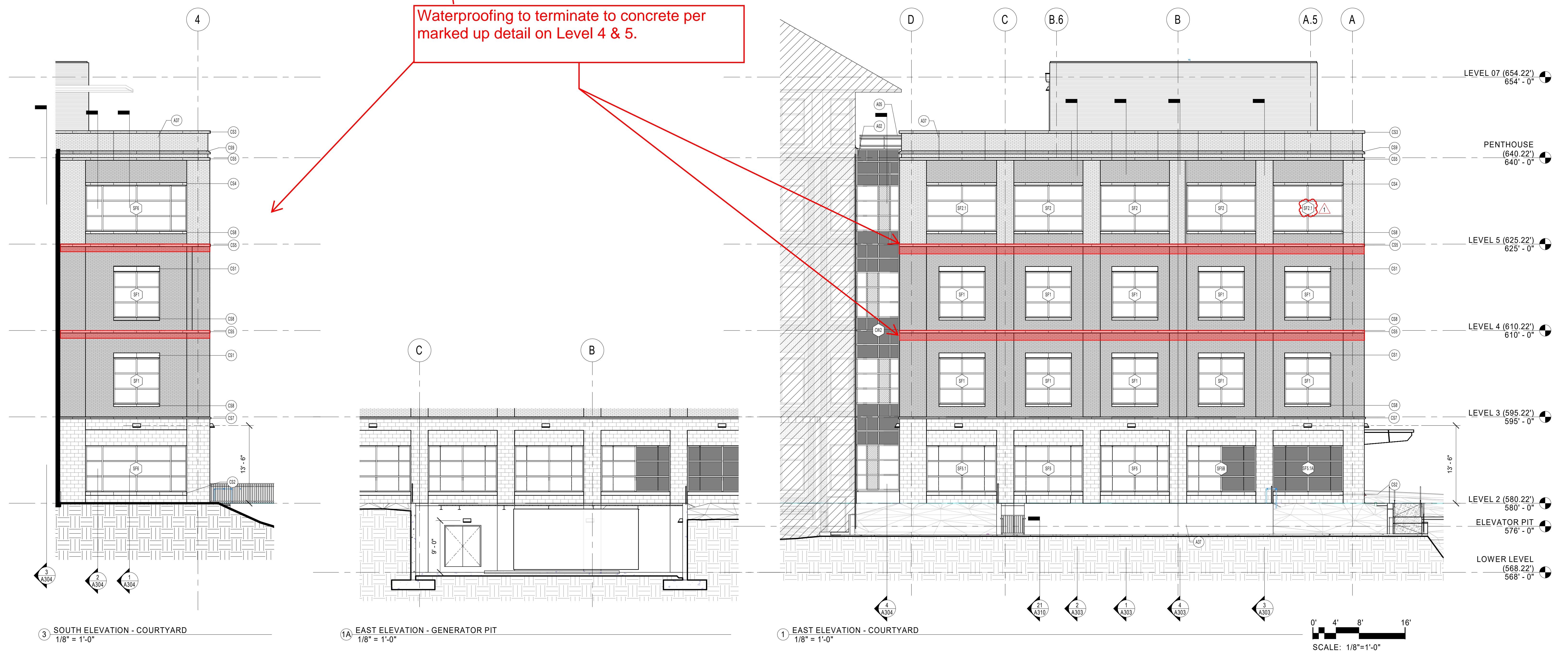
EXTERIOR MATERIALS	
METAL PANEL	BRICK MASONRY - 1
GL-5 CLEAR ROOFING GLAZING	BRICK MASONRY - 2
GL-7 CERAMIC COATED INSULATING VISION GLASS	BRICK MASONRY - GLAZED
GL-8 CLEAR SPANDREL GLAZING	CANT STONE
	BURNT-SHED CONCRETE MASONRY UNIT
	EXISTING BUILDING

GENERAL NOTES

- REFERENCE A200 FOR EXTERIOR STOREFRONT, CURTAIN WALL, AND CAPSTONE TYPES.

KEYED ARCHITECTURAL NOTES

KEY	DESCRIPTION
A02	2" EXPANSION JOINT/COVER
A05	FALL PROTECTION ANCHOR. REFER TO 4/A314.
A37	CONTROL JOINT, TYPICAL.



CONSTRUCTION MANAGER | SPAWGGLASS  
1111 Smith Road | Austin, TX 78721  
ph. 512.719.5251

CIVIL | GARZA  
garza  
7708 Rialto Blvd., Suite 125 | Austin, TX 78735  
ph. 512.298.3284

STRUCTURAL | MARTINEZ MOORE  
221 W. 6th St., Suite 800 | Austin, TX 78701  
ph. 512.330.1278

LANDSCAPE ARCH. | COLEMAN & ASSOCIATES  
9890 Silver Mountain Dr. | Austin, TX 78737  
ph. 512.476.2099

CODE + FIRE PROTECTION | JENSEN + HUGHES  
505 E. Huntland Dr., Suite 501 | Austin, TX 78752  
ph. 512.792.3990

ACOUSTICS + VIBRATION | DICKENSEETS DESIGN  
10919 Conchos Trl., Suite 100 | Austin, TX 78726  
ph. 512.331.8577

## SEAY BUILDING ADDITION

CLIENT PROJECT NO. - CPC 102-1219

## CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION
1	08/28/2020	PR 06



## EXTERIOR ELEVATIONS

DATE OCT 31, 2019  
BSALS PROJECT NO. 15830011

A201



BSA LifeStructures  
2700 Via Fortuna, Suite 400  
Austin, TX 78746  
512.531.9075    fx 866.990.3272  
[www.bsalifestructures.com](http://www.bsalifestructures.com)  
Architectural Registration Number - BR-1590  
Engineering Registration Number - F-7421



EXTERIOR MATERIALS	
METAL PANEL	
GL-5 CLEAR INSULATING GLAZING	
GL-7 CERAMIC COATED INSULATING VISION GLASS	
GL-6 INSULATING SPANDREL GLAZING	
BRICK MASONRY - 1	
BRICK MASONRY - 2	
BRICK MASONRY - GLAZED	
CAST STONE	
BURNISHED CONCRETE MASONRY UNIT	
EXISTING BUILDING	
GENERAL NOTES	
1. REFERENCE A200 FOR EXTERIOR STOREFRONT, CURTAIN WALL, AND CAPSTONE TYPES.	
KEYED ARCHITECTURAL NOTES	
KEY	DESCRIPTION
A24	REMOVE EXISTING CURTAIN WALL WINDOW AND PREPARE FOR NEW OPENING.
A25	REMOVE EXISTING DOOR, FRAME, AND TRANSOM. PREPARE FOR NEW OPENING.
A26	NEW STOREFRONT SYSTEM TO MATCH EXISTING.
A31	REMOVE EXISTING EXTERIOR WALL BETWEEN CURTAIN WALL WINDOW AND DOOR OPENING. PREPARE FOR NEW OPENING.
A37	CONTROL JOINT. TYPICAL.



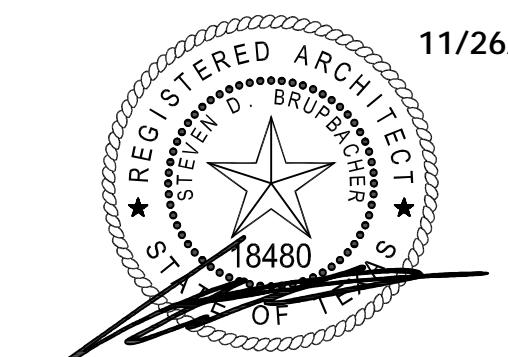
# **SEAY BUILDING ADDITION**

CLIENT PROJECT NO. - CPC 102-1219

# CONSTRUCTION DOCUMENTS

MARK	DATE	DESCRIPTION
1	11/26/2019	ADDENDUM NO 2

11/26/1



## EXTERIOR ELEVATIONS

DATE	OCT 31, 20
BSALS PROJECT NO.	158300

A202



**SpawGlass Contractors, Inc.**  
9331 Corporate Drive  
Selma TX 78154

## REQUEST FOR INFORMATION

**0146**

Printed On: Jun 09, 2021  
Page: 1 of 1

**Subject:** Curtain Wall Waterproofing Detail

**Date:** 06/09/2021

**Project:** UT Seay Building Addition

**Job:** 3018105

**Address:** 108 E Dean Keeton St

**Required:** 06/14/2021

Austin TX 78712

**Phone:**                           **Fax:**

**Estimated Cost Impact:** Potentially

**To:** Ramon Arteaga

BSA LifeStructures, Inc.

**From:** SpawGlass Contractors, Inc.                   Tanner Hawkins

### **Request:**

Reference the attachments.

Currently, detail 13/A351 calls for a section of the existing building masonry to be removed in order to allow the waterproofing membrane to terminate onto the existing building weatherline. However the existing building masonry has been removed in its entirety at this location. Please review the attached detail and letter from the Manufacturer, and confirm if it is acceptable to install.

### **Suggestion:**

**Cost Impact:** POTENTIALLY

**Cost Amount:**

**Schedule Impact:** POTENTIALLY

**Days:**

**Answer:**    **Accept Suggestion**

Answered By:

Signed: \_\_\_\_\_

Date:

### **Distribution:**

Per on site discussions 6/24, a sealant pull test is required to determine compatibility with the existing structure's waterproofing. Should the sealant prove to be compatible, ZSC takes no exceptions to the proposed detail. However, should the sealant not provide adequate adhesion to the existing waterproofing, ZSC recommends that a termination bar be installed to prevent separation; termination bar to be anchored no more than 8" o.c. and re-covered with the approved sealant to address breaches at anchor points.

Darryl Castleberry

2021/06/24

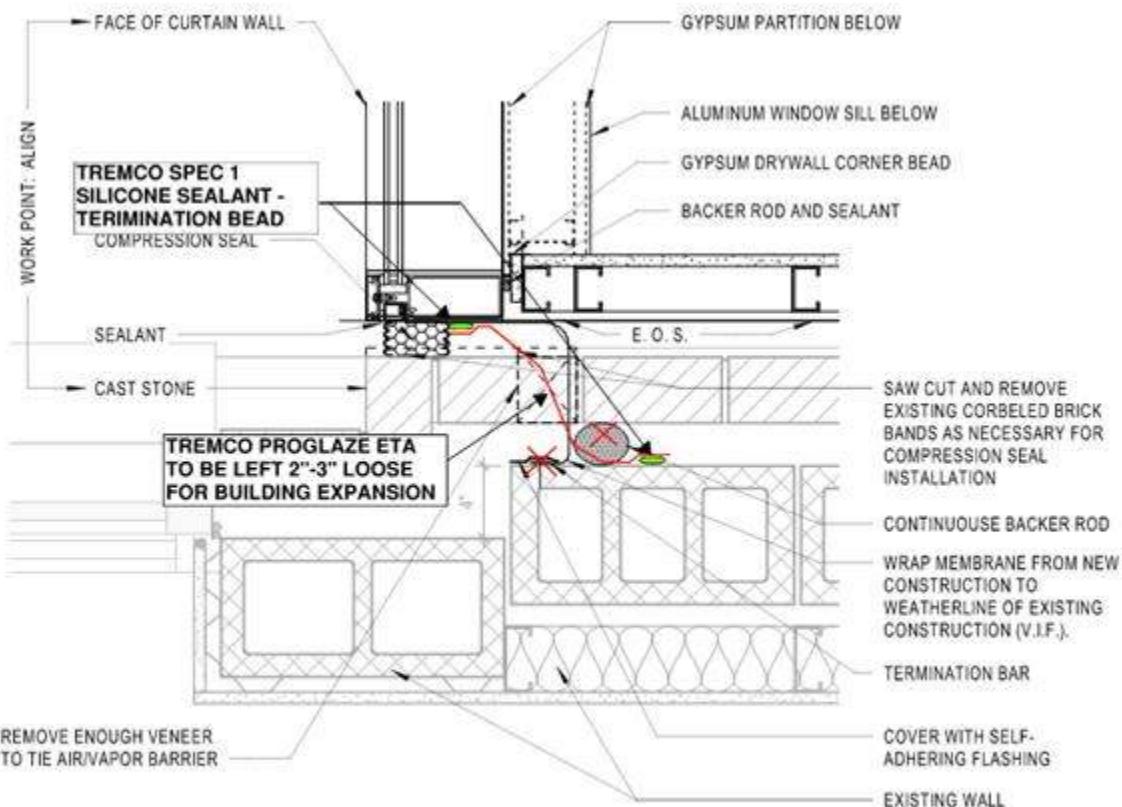
Date: June 1, 2021

To:  
 Rolando Cardenas  
 Chamberlin Roofing and Waterproofing  
 Buda, Texas

RE: Proglaze ETA  
 Project: UT Seay Building Addition

To whom it may concern.

This letter is in regard to the above referenced project. Tremco approves the use of Proglaze ETA in the following detail:



(13) PLAN DETAIL - CURTAIN WALL TO EXISTING - LEVEL 3-5  
 $1\frac{1}{2}'' = 1'-0''$



Tremco Incorporated  
3735 Green Road  
Beachwood, OH 44122  
US: 800.852.9068  
Canada: 800.263.6046  
[www.tremcocpg.com](http://www.tremcocpg.com)

Should anyone have any questions please do not hesitate to contact me at [dzoromsky@tremcoinc.com](mailto:dzoromsky@tremcoinc.com) and/or 512-815-0202.

Thank you.

Drew Zoromsky

*Drew Zoromsky*

Tremco CPG  
Technical Sales Rep – Central Texas



**SpawGlass Contractors, Inc.**  
9331 Corporate Drive  
Selma TX 78154

## REQUEST FOR INFORMATION

**0152**

Printed On: Jun 21, 2021  
Page: 1 of 1

**Subject:** Flashing Detail at Cast-Stone Cap

**Date:** 06/21/2021

**Project:** UT Seay Building Addition

**Job:** 3018105

**Address:** 108 E Dean Keeton St

**Required:** 06/24/2021

Austin TX 78712

**Phone:**                           **Fax:**

**Estimated Cost Impact:** Potentially

**To:** Ramon Arteaga

BSA LifeStructures, Inc.

**From:** SpawGlass Contractors, Inc.                   Tanner Hawkins

### **Request:**

Reference the attached.

Per discussion with Zero6, please confirm it is acceptable to cut the top stainless steel cap flashing 3" from the parapet wall edge in order to allow the drip edge to sit off the edge of brick as shown in detail 16/A311. The top Stainless flashing would be stripped into the parapet stainless steel cap with the approved Exoair 110AT product.

### **Suggestion:**

**Cost Impact:** POTENTIALLY

**Cost Amount:**

**Schedule Impact:** POTENTIALLY

**Days:**

**Answer:**    **Accept Suggestion**

Answered By:

Signed: \_\_\_\_\_

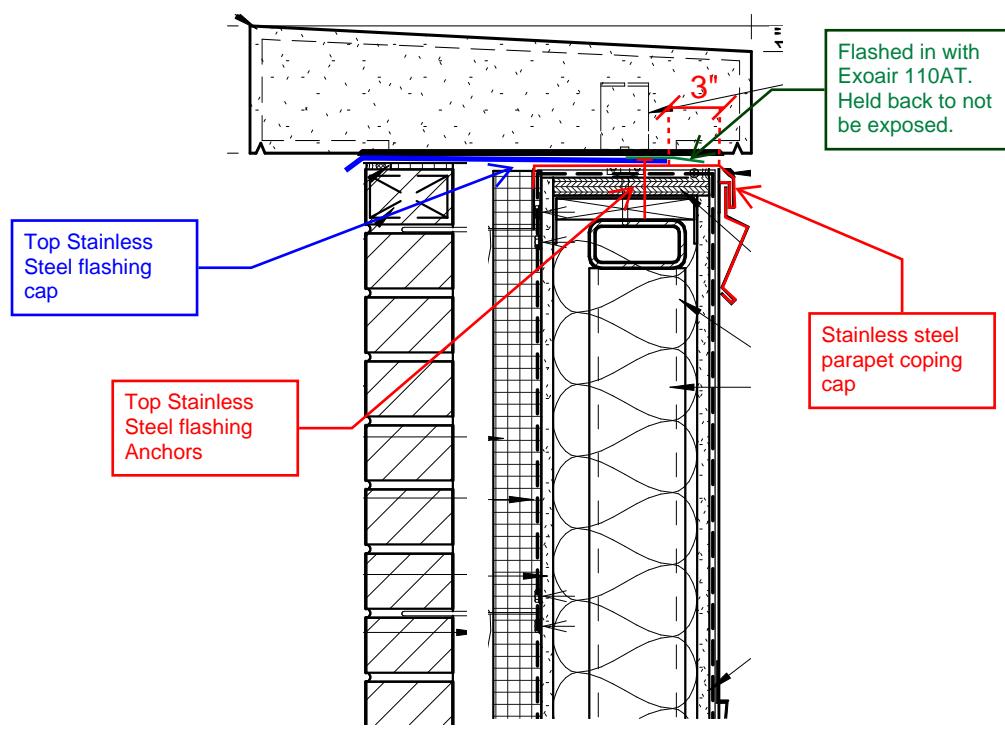
Date:

### **Distribution:**

ZSC holds no exceptions to the proposed deviation. Final approval to be determined by AOR.

Darryl Castleberry

2021/06/21

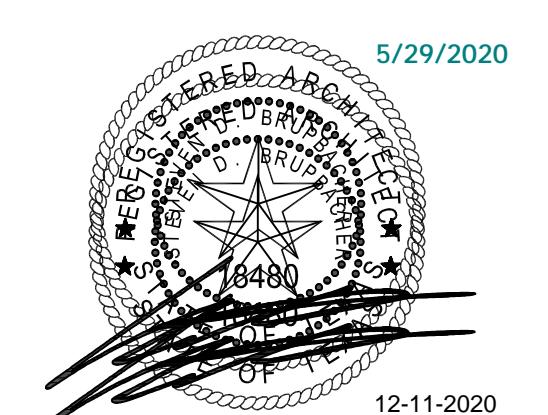


## SEAY BUILDING ADDITION

CLIENT PROJECT NO. - CPC 102-1219

## CONSTRUCTION DOCUMENTS

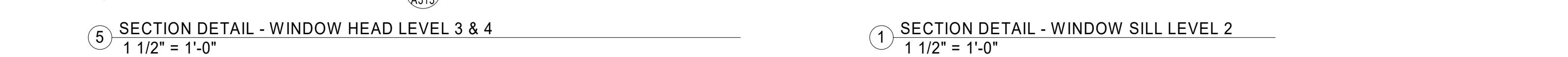
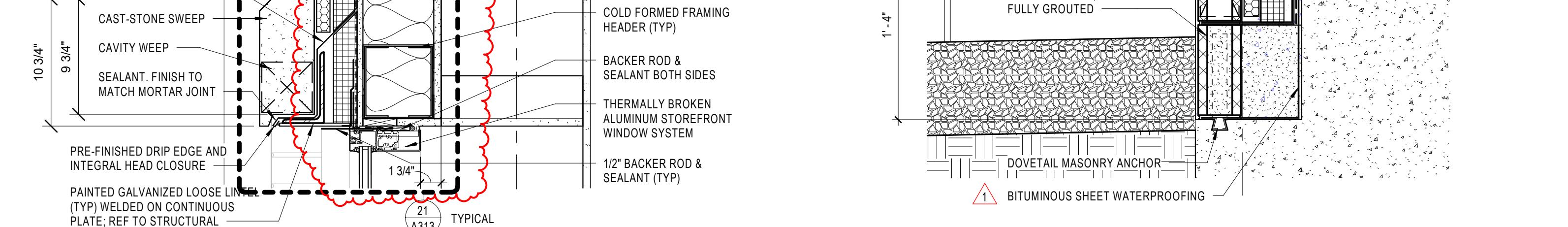
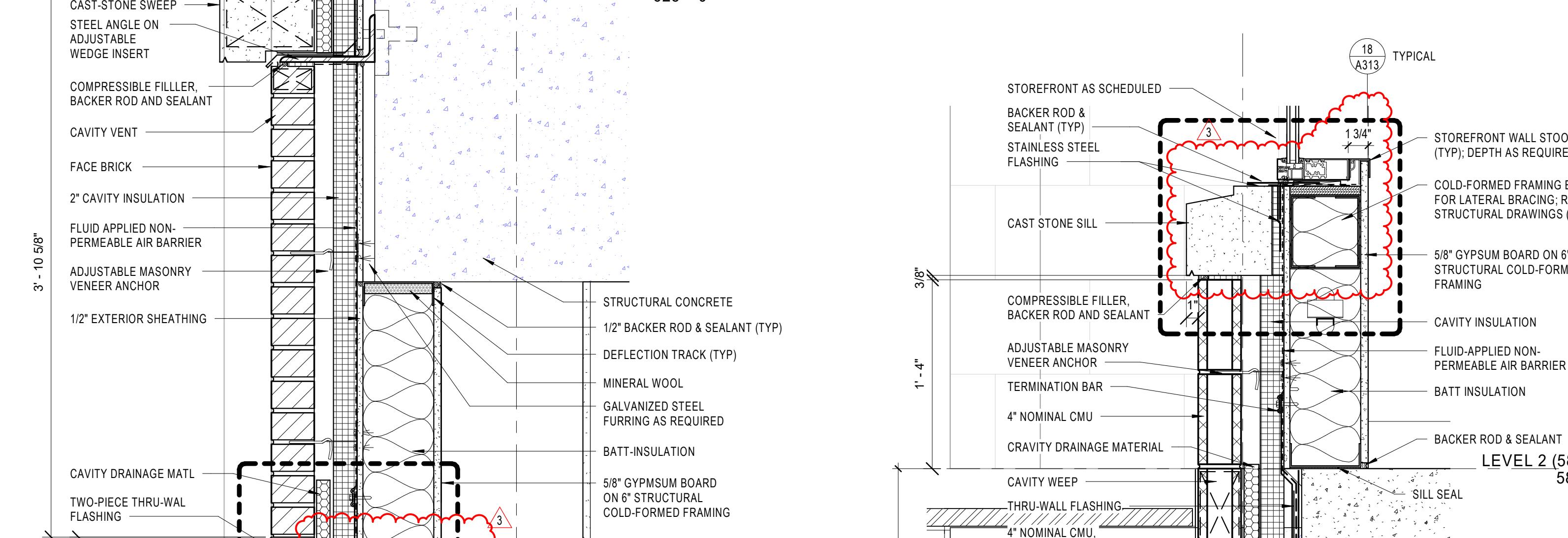
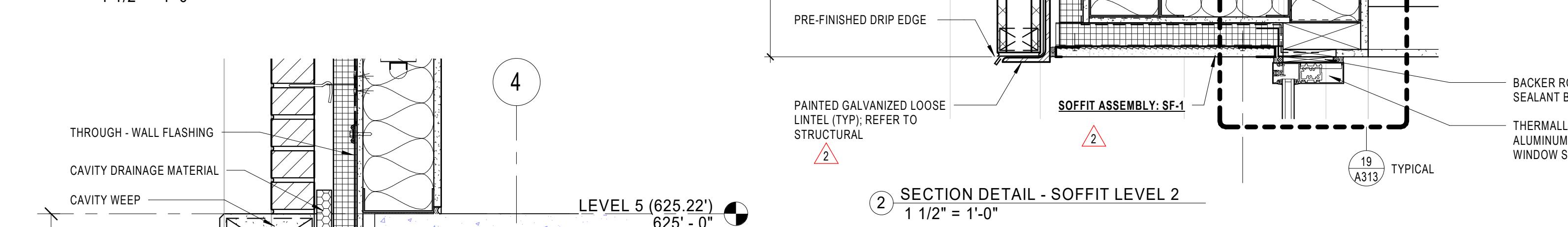
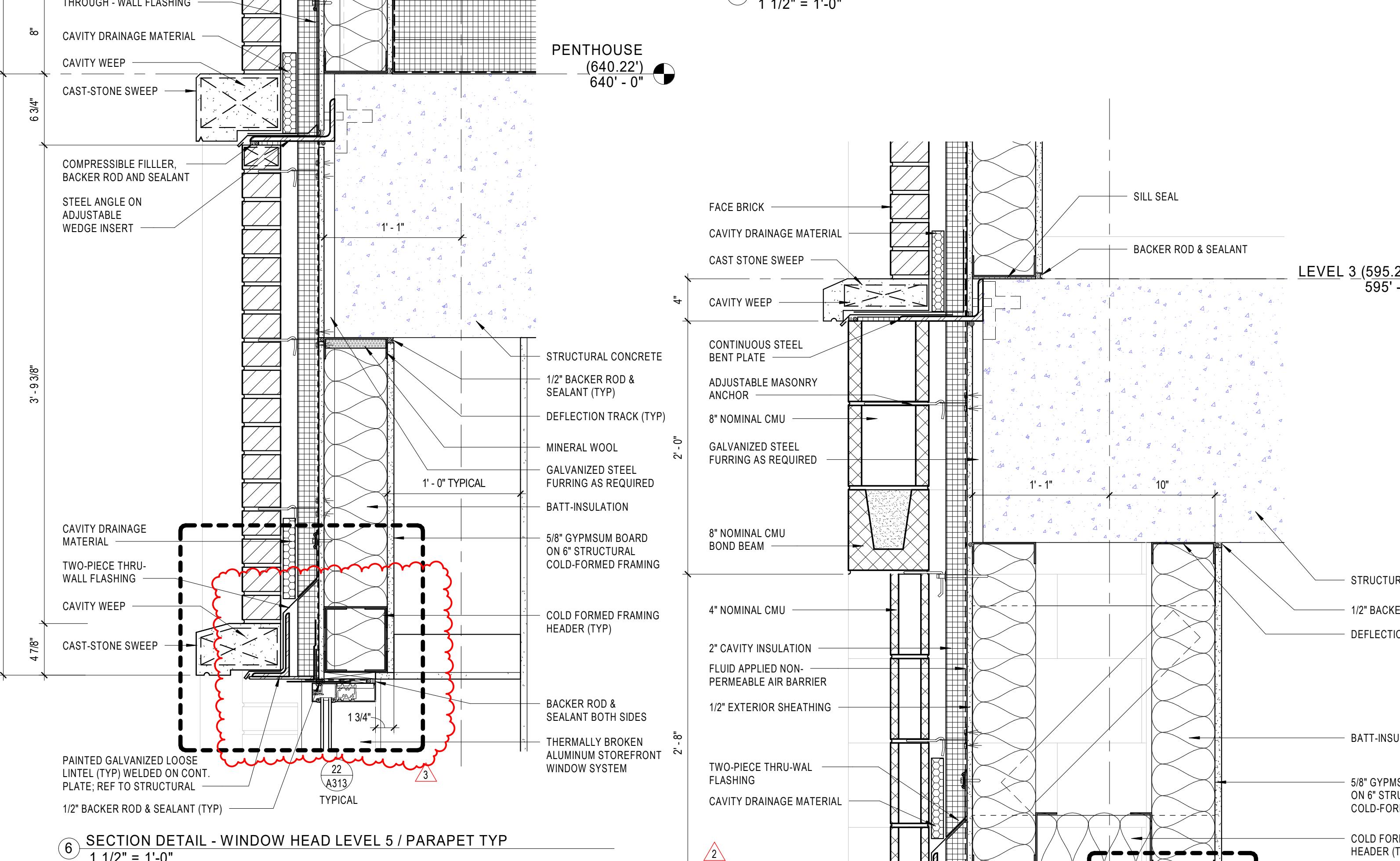
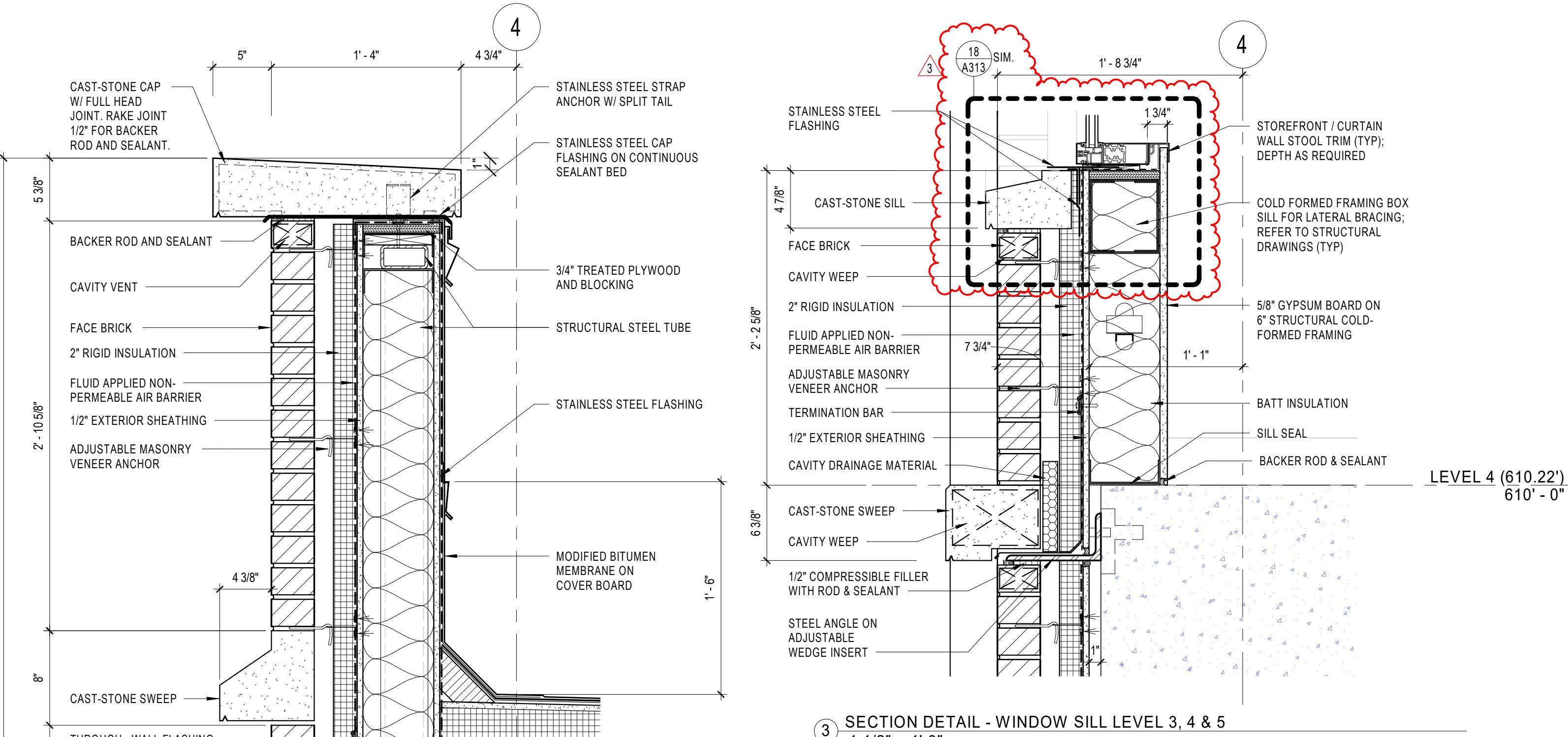
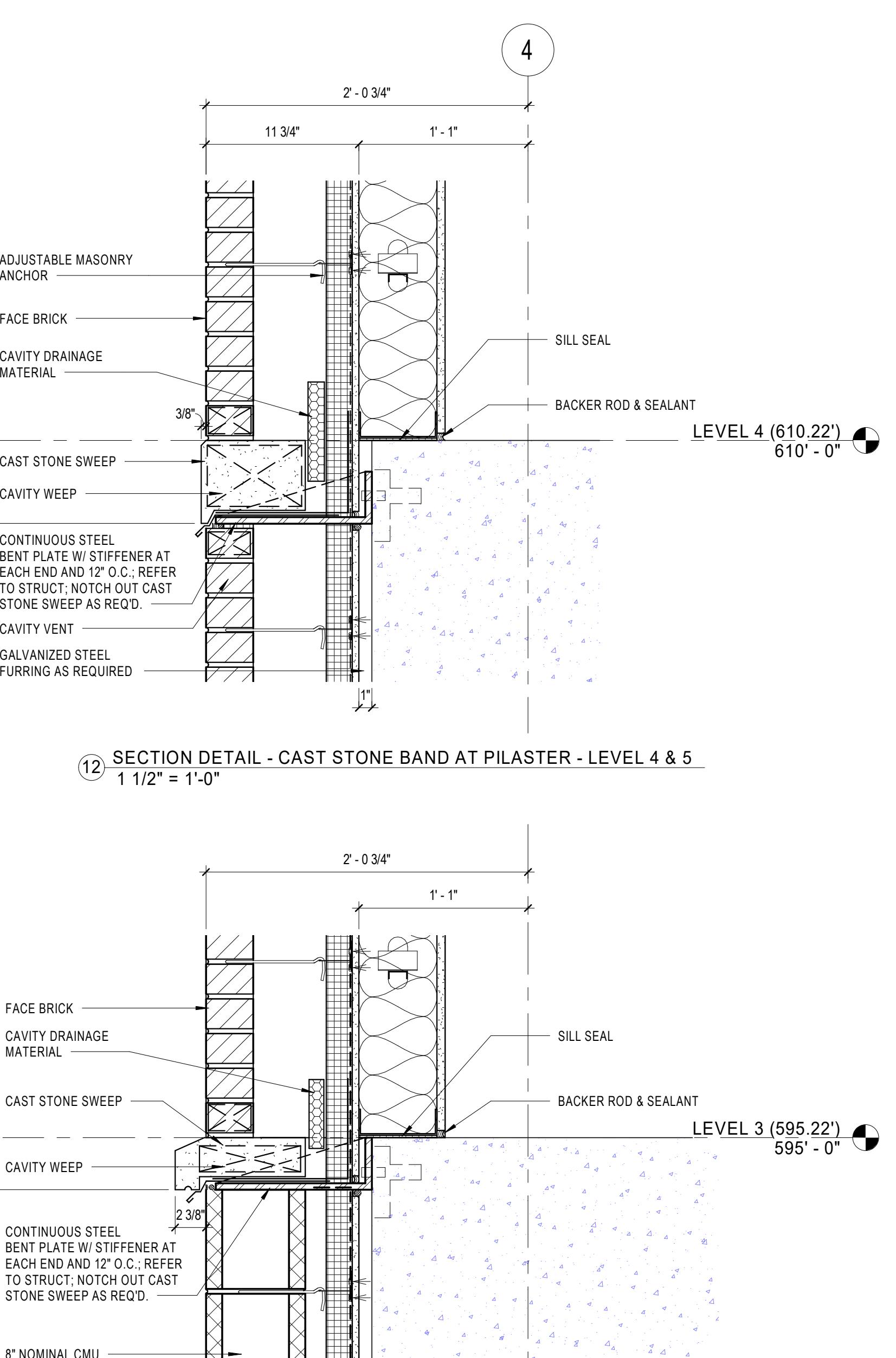
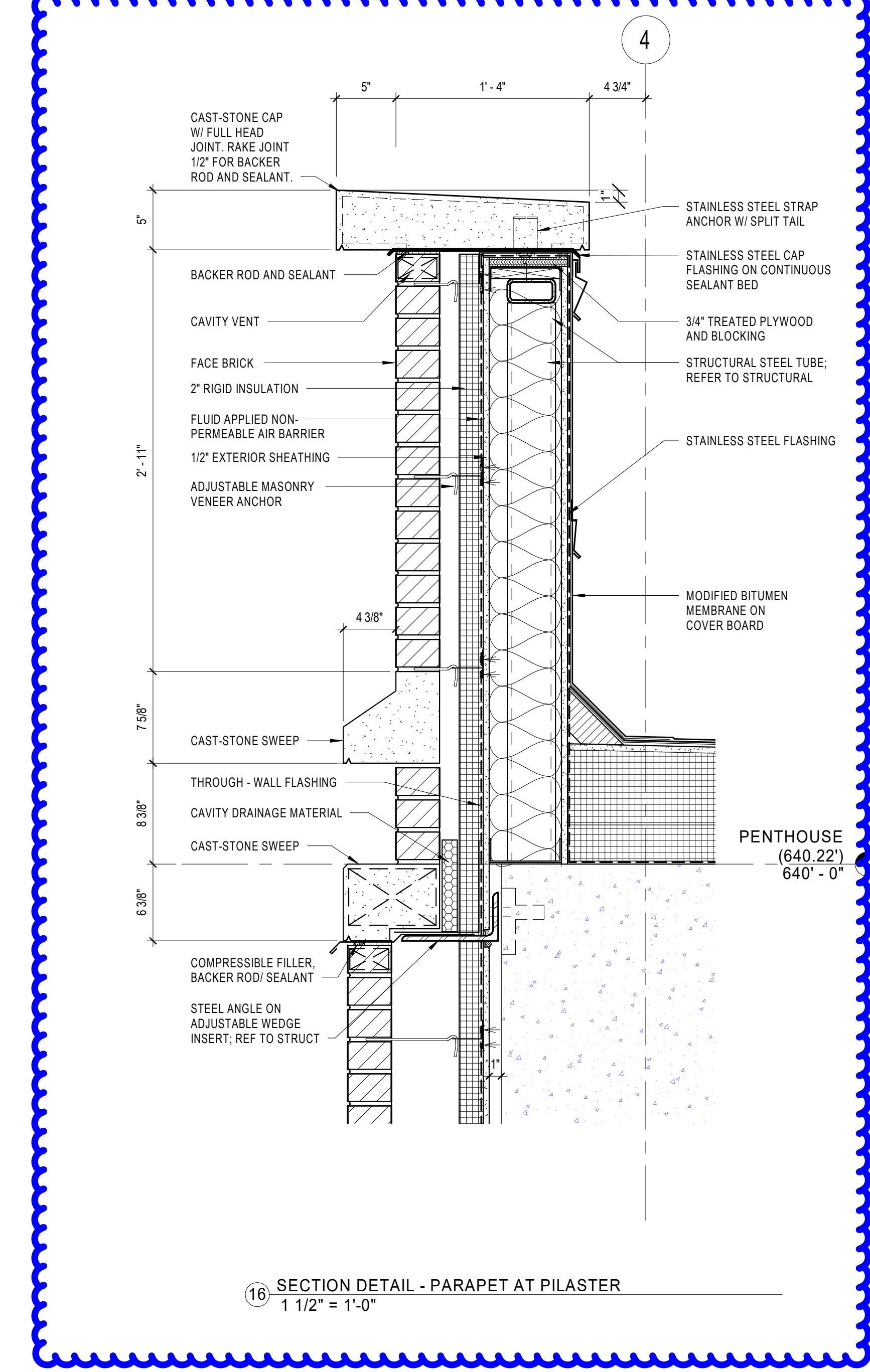
MARK	DATE	DESCRIPTION
1	02/26/2020	PR 01
2	05/29/2020	PR 04
3	12/11/2020	PR 07



## EXTERIOR SECTION DETAILS

DATE OCT 31, 2019  
BSALS PROJECT NO. 15830011

A311



## 4.4 FIELD REPORTS

# ZERO / SIX

Consulting

Envelope Architecture

UT Austin

Sarah M. & Charles E. Seay Building Addition

CPC Project Number: 102-1219

Daily Field Report No. 01

Day of Visit: June 11, 2020 (Thursday)

**Issued:** June 15, 2020

**Prepared by:** Darryl Castleberry

**In Attendance:**

Darryl Castleberry

Zero/Six

Tyler Patton

SpawGlass

**Weather Summary for: 6/11/2020**

Temperature Low/High (°F) 59/94

0.00"

Humidity Min/Max % 21/93

Wind Speed (MPH) Avg/Gust NE @ 9/22

Events None

Galveston

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Brubacher

BSA

Gilbert Martinez

SpawGlass

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

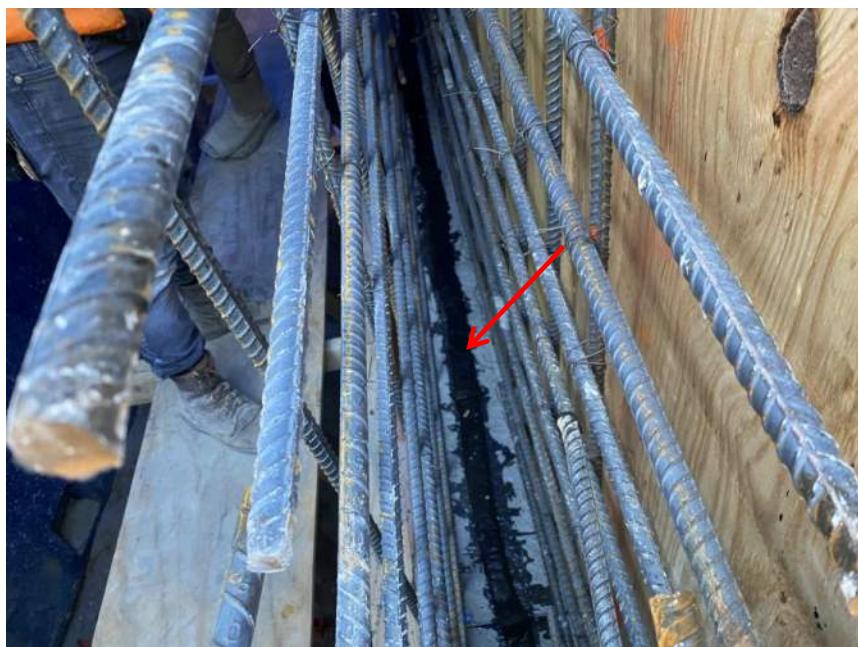
409-740-0554 (fax)

866-551-0090 (toll free)

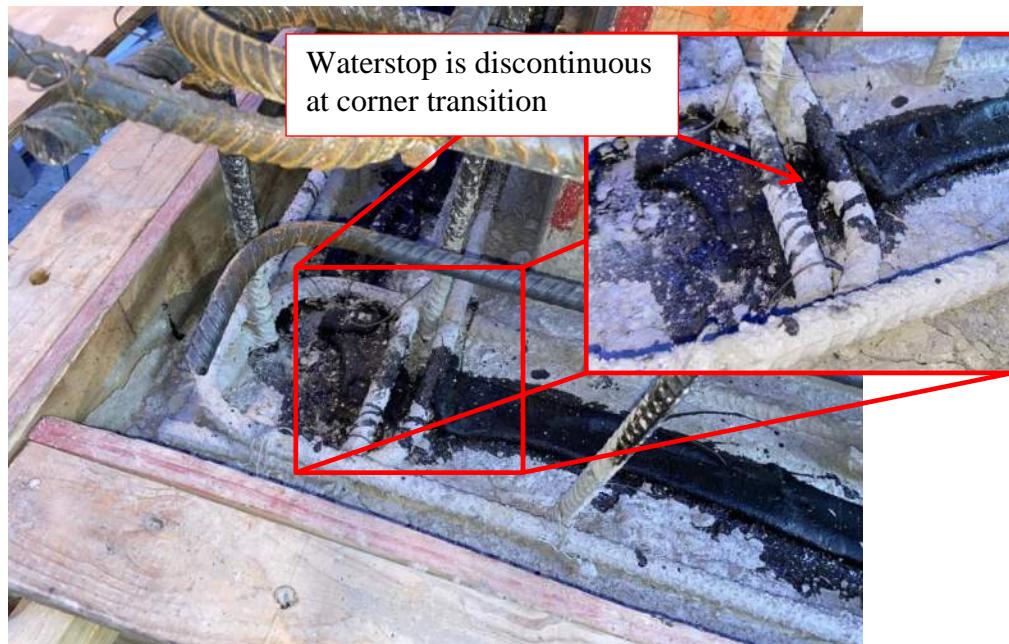
1. ZSC on site to observe waterproofing progress at the tunnel chamber. It was noted that Precon membrane appears to have been installed prior to concrete slab pour. Excess material was observed to extend past the slab edge for tie-in to post-applied waterproofing. Please verify that the membrane was installed following manufacturer and project specifications. **See Photo 1**
2. At the concrete cold joints, a waterstop has been installed at the wall centerline per 12/S450. However, it was noted that the waterstop has not been installed continuous, creating breaches at the southern 90° corners. It was also noted that the waterstop material ran vertically at the northern face has delaminated. Please ensure deficiencies are corrected prior to installation of concrete at vertical walls. **See Photos 2-4**



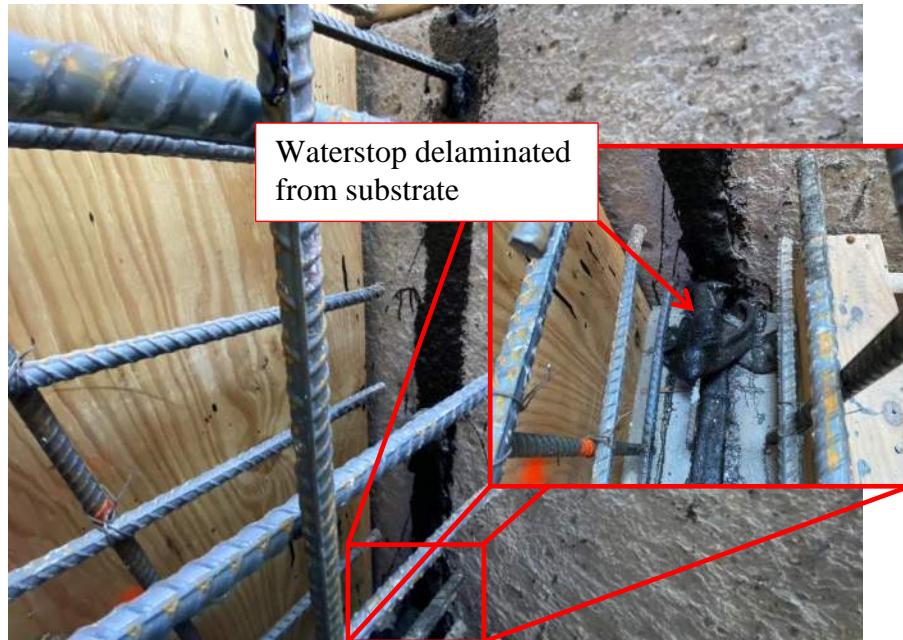
**Photo 1**  
**Example of Excess Precon Membrane Observed for Tie-In**



**Photo 2**  
**Example of Waterstop Installed per 12/S450**



**Photo 3**  
**Overview of Waterstop Transition at Corners**



**Photo 4**  
**Example of Waterstop at Delaminated at Vertical Face**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# ZERO / SIX

Consulting

Envelope Architecture

UT Austin

Sarah M. & Charles E. Seay Building Addition

CPC Project Number: 102-1219

Daily Field Report No. 02

Day of Visit: June 17, 2020 (Wednesday)

**Issued:** June 19, 2020

**Prepared by:** Darryl Castleberry

**In Attendance:**

Darryl Castleberry

Zero/Six

Gilbert Martinez

SpawGlass

**Weather Summary for: 6/17/2020**

Temperature Low/High (°F) 67/93

Rain (inches) 0.00"

Humidity Min/Max % 35/93

Wind Speed (MPH) Avg/Gust NE @ 14/23

Events None

Galveston

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Brubacher

BSA

Gilbert Martinez

SpawGlass

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

San Antonio

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

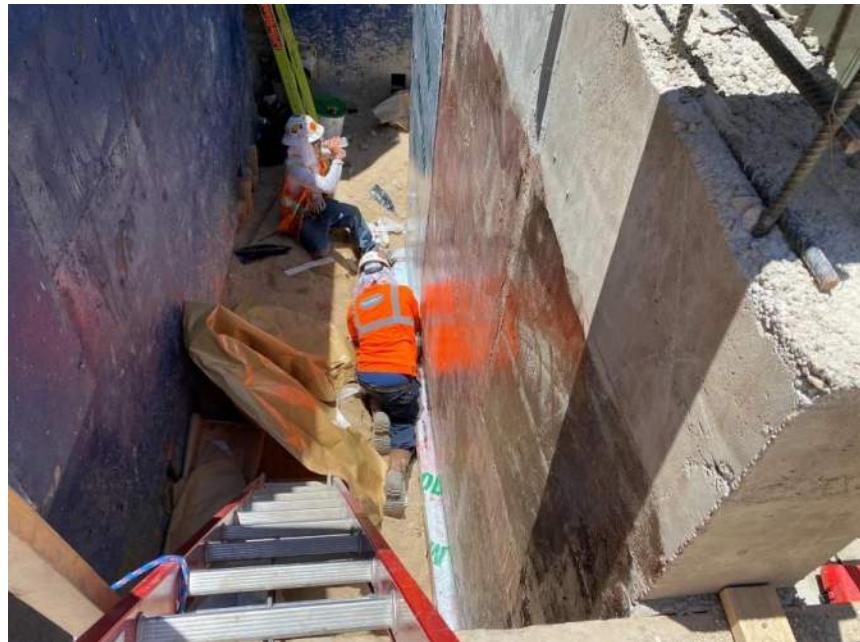
Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

- At the tunnel chamber, Chamberlin is installing sheet waterproofing membrane (Mel-Roll) in what appears to be a workmanlike manner. The concrete substrate was observed to be primed and allowed to cure prior to installation of sheet waterproofing. Sealant cant beads were observed to be installed at inside corners to promote transition between surfaces. Inside corner reinforcing membrane strips were observed to be installed prior to installation of field membrane. Membrane was observed to be tied-in to blindside membrane (Precon). A hand roller was used to promote adhesion at the concrete substrate per manufacturer's specifications. Pointing mastic was observed to be installed at the tie-in to blindside membrane, leading up to 12" above the concrete footing per manufacturer's recommendations. No deficiencies were noted at the time of observation, and installation appears to be sufficient. *See Photos 1-7*



**Photo 1**  
**Overview of Primed Substrate**



**Photo 2**  
**Example of Corner Cant Bead Installation**



**Photo 3**  
**Example of Inside Corner Reinforcing Membrane Strips**



**Photo 4**  
**Example of Sheet Waterproofing Membrane Installation Underway**



**Photo 5**  
**Example of Sheet Waterproofing Tie-In to Blindsides Membrane**



**Photo 6**  
**Overview of Mastic and Sealant Utilized**



**Photo 7**  
**Example of Membrane Termination**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# ZERO / SIX

## Consulting

Envelope Architecture

UT Austin

Sarah M. & Charles E. Seay Building Addition

CPC Project Number: 102-1219

Daily Field Report No. 03

Day of Visit: June 24, 2020 (Wednesday)

Issued: July 25, 2020

Prepared by: Darryl Castleberry

**In Attendance:**

Darryl Castleberry

Zero/Six

Gilbert Martinez

SpawGlass

**Weather Summary for: 6/24/2020**

Temperature Low/High (°F) 76/98

Rain (inches) 0.00"

Humidity Min/Max % 41/85

Wind Speed (MPH) Avg/Gust NE @ 14/33

Events None

Galveston

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Brubacher

BSA

Gilbert Martinez

SpawGlass

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. ZSC on site 7/21 to observe blindside waterproofing installation underway at vertical wall locations. Precon has been installed along beams and appears to have sufficient laps. No detail sealant has been installed at the time of observation, as this was to be an interim observation. ZSC recommends a formal inspection be performed prior to concrete placement. **See Photos 1-2**

2. Concerns were raised by SpawGlass about membrane termination, as the leading edge is only scheduled to be installed approximately 12" above the beam. This can cause membrane failure during concrete pour. ZSC consulted with W. R. Meadows, and it was determined that membrane will be post applied to vertical walls once forms are removed in order to ensure the membrane will remain continuous. **See Photo 3**

3. ZSC on site 7/24 to observe completed membrane detailing. Upon observation, it was noted that rebar has been installed at piers creating a breach in the

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866-551-0090 (toll free)

membrane. It was also noted that membrane laps at the detail to the existing structure have not been terminated per manufacturer's specifications. Please ensure rebar is detailed as a typical penetration, and all laps are terminated per manufacturer's specifications. **See Photos 4-7**

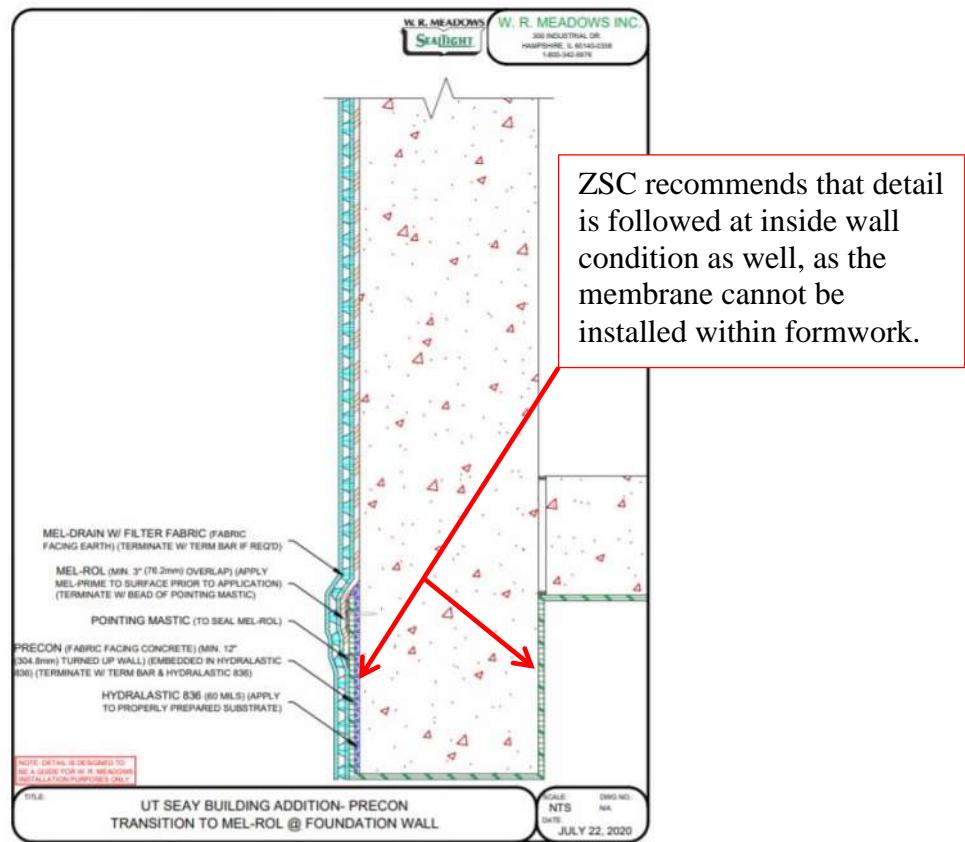
4. At approximate gridline B.2/4, it was noted that electrical conduit has been run above the blindside membrane installation. ZSC recommends that the conduit be grouted in at the valley beneath the blindside membrane, as proper penetration detailing cannot be performed at tightly run conduit locations. **See Photo 8**



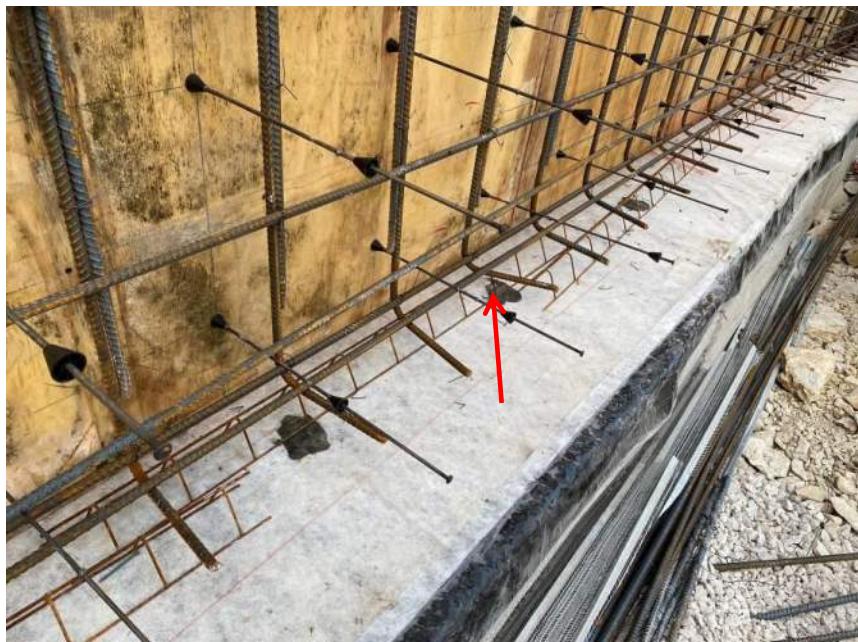
**Photo 1**  
**Overview of Membrane Installation**



**Photo 2**  
**Membrane Laps and Fasteners Lacking Termination Sealant**



**Photo 3**  
**Overview of Manufacturer's Recommendations for Detailing**



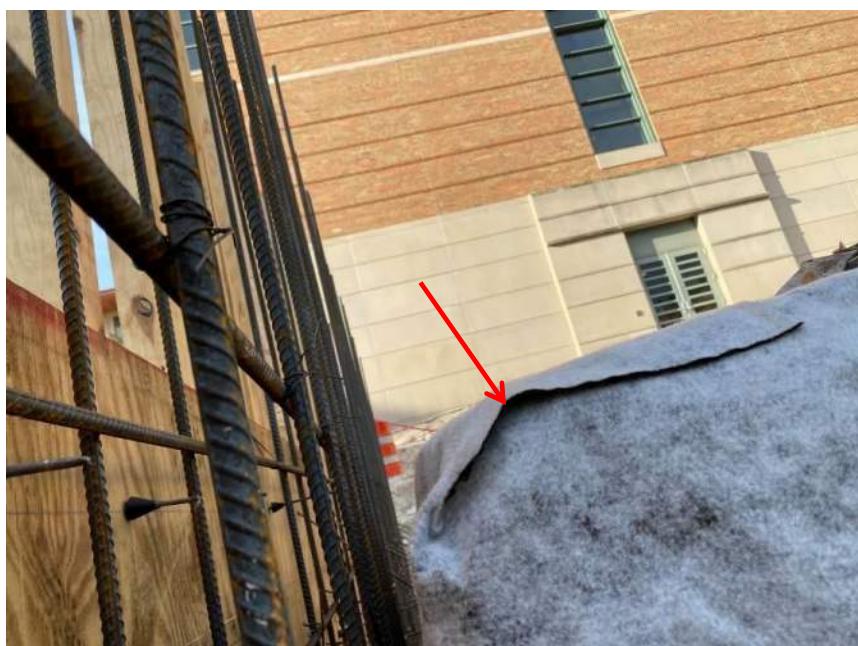
**Photo 4**  
**Example of Fasteners Terminated with the Approved Sealant**



**Photo 5**  
**Example of Membrane Lap Terminated with the Approved Sealant**



**Photo 6**  
**Example of Rebar Penetrations at Piers**



**Photo 7**  
**Example of Laps at Existing Structure Lacking Termination Sealant**



ZSC recommends conduit be grouted in at valley beneath blindside membrane. Tight grouping will not allow for proper penetration detailing.

**Photo 8**  
**Overview of Conduit Ran Above Blindside Membrane**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# ZERO / SIX

Consulting

Envelope Architecture

UT Austin

Sarah M. & Charles E. Seay Building Addition

CPC Project Number: 102-1219

Daily Field Report No. 04

Day of Visit: August 14, 2020 (Friday)

Issued: August 26, 2020

Prepared by: Darryl Castleberry

**In Attendance:**

Darryl Castleberry	Zero/Six	Temperature Low/High (°F)	78/105
Bryan Hernandez	Zero/Six	Rain (inches)	0.00"
Gilbert Martinez	SpawGlass	Humidity Min/Max %	24/88
Tanner Hawkins	SpawGlass	Wind Speed (MPH) Avg/Gust	12/24
		Events	None

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Distribution:**

Mark Brooks	UT	Tyler Patton	SpawGlass
Wallace Schoen	UT	Tanner Hawkins	SpawGlass
Steve Brubacher	BSA	Gilbert Martinez	SpawGlass
Ramon Arteaga	BSA	Brandon McDermott	Zero/Six
Taylor Roche	BSA	Darryl Castleberry	Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

- At the mock-up, ZSC performed dry mil testing at 2 locations in order to verify air barrier (AB) complies with specifications. Per project specifications, a minimum of 35 dry mils are required. Sample specimens measured at 23 and 29 mils, and installation does not comply with specifications. ZSC recommends an additional coat of AB be applied to the substrate in order to meet project specifications. **See Photos 1-2**
- At the mock-up, ZSC observed installation of SS flashing at the punched opening. It was noted that SS T-flashing allows multiple avenues for moisture intrusion at the jamb to head and jamb to sill transitions. ZSC recommends that flashing be reworked to allow for T-flashing to create a continuous frame around the opening, with a tab at the sill flashing sandwiched between jamb T-flashing. Additionally, it is recommended that the jamb flashing tab over at the head to be sandwiched by head T-flashing, and the outer portion of the head

1027 Tremont St.

Galveston, TX 77550

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866-551-0090 (toll free)

flashing tab over the outside of the jamb flashing bedded in sealant and clamped until cured. Please note that a copious amount of sealant is needed at transition joints in order to prevent voids that can lead to moisture intrusion.

***See Photos 3-5***

3. At the mock-up, ZSC observed installation of SAMF strip-in at window perimeter flashing. It was noted that the membrane transitions 3" onto flashing and substrate per manufacturer's specifications. However, upon observation, it was noted that multiple deficiencies exist in installation including fishmouthing and missed lap terminations. Please ensure that fishmouths are corrected per manufacturer's specifications, and membrane is properly terminated prior to installation of façade. ***See Photos 6-8***
4. At the north and adjacent west elevations of the tunnel, ZSC observed installation of sheet waterproofing membrane. It was noted that drain board has been installed prior to observation, preventing access to sheet waterproofing throughout the field of installation. However, it was noted that membrane appears to be fully adhered to the substrate at termination points, and membrane has been sealed with the approved sealant. No deficiencies were noted at the time of observation, and installation appears to be sufficient.

***See Photos 9-10***



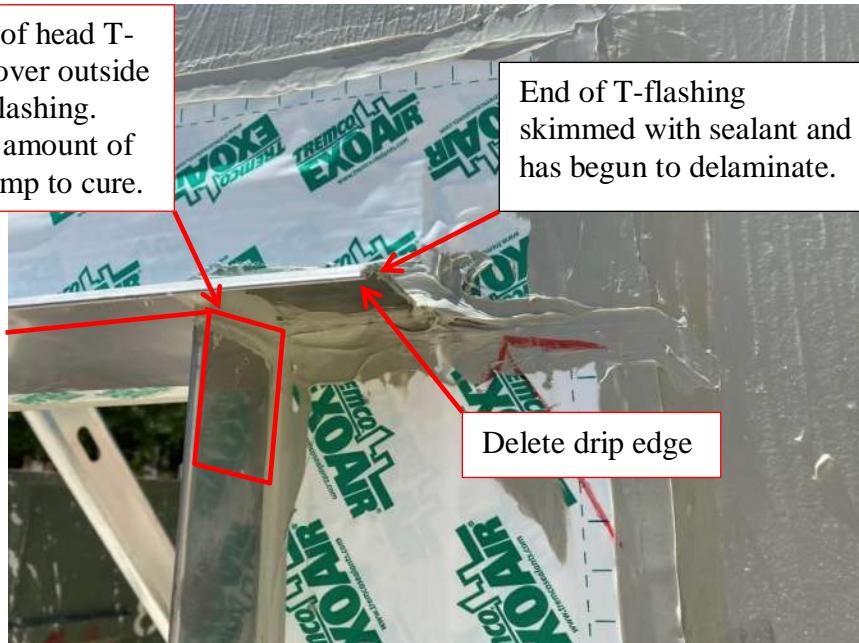
**Photo 1**  
**Example of Specimen Sample Location**



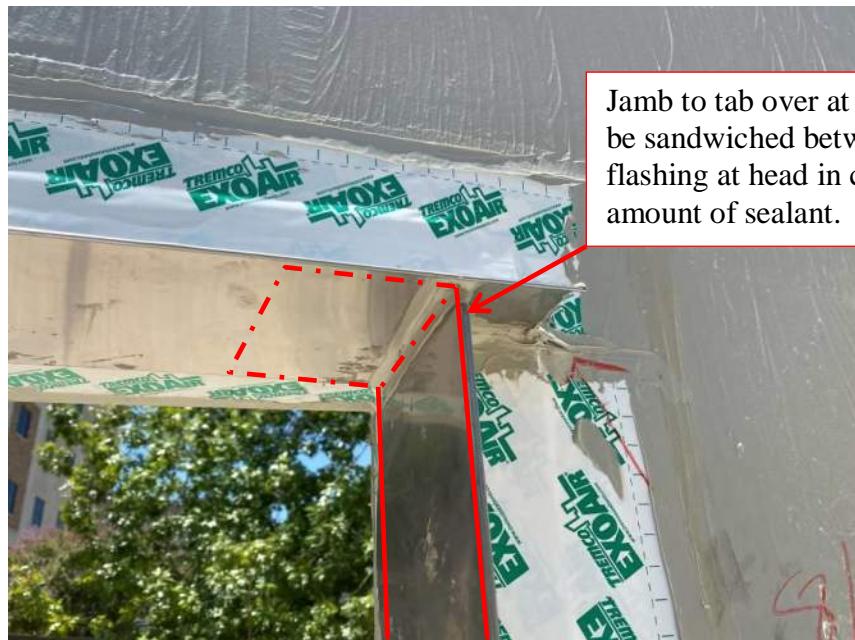
**Photo 2**  
**Example of Measurement Performed at Mil Sample**

Turn upper leg of head T-flashing down over outside leg of jamb T-flashing.  
Bed in copious amount of sealant, and clamp to cure.

End of T-flashing skinned with sealant and has begun to delaminate.



**Photo 3**  
**Example of Avenue for Moisture Intrusion**



**Photo 4**  
**Overview of Head to Jamb Transition**

Change sill pan to T-flashing, and delete drip. Ensure positive slope to drain is maintained.



**Photo 5**  
**Overview of Jamb to Sill Transition**



**Photo 6**  
**Example of Fishmouthing at SAMF Strip-In at Window Flashing**



**Photo 7**  
**Example of Missing Termination Sealant**



**Photo 8**

**Example of Sufficient SAMF Transition from substrate to Window Flashing**



**Photo 9**

**Overview of Drain Board Installed at Time of Observation**



**Photo 10**  
**Example of Membrane Terminations Sealed with Approved Sealant**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# ZERO / SIX

Consulting

Envelope Architecture

UT Austin

Sarah M. & Charles E. Seay Building Addition

CPC Project Number: 102-1219

Daily Field Report No. 05

Day of Visit: August 25, 2020 (Tuesday)

**Issued:** August 26, 2020

**Prepared by:** Darryl Castleberry

**In Attendance:**

Darryl Castleberry	Zero/Six	Temperature Low/High (°F)	72/98
Lane Coston	Zero/Six	Rain (inches)	0.00"
Gilbert Martinez	SpawGlass	Humidity Min/Max %	32/91
Tanner Hawkins	SpawGlass	Wind Speed (MPH) Avg/Gust	6/20

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Weather Summary for: 8/25/2020**

Events	None
--------	------

**Distribution:**

Mark Brooks	UT	Tyler Patton	SpawGlass
Wallace Schoen	UT	Tanner Hawkins	SpawGlass
Steve Brubacher	BSA	Gilbert Martinez	SpawGlass
Ramon Arteaga	BSA	Brandon McDermott	Zero/Six
Taylor Roche	BSA	Darryl Castleberry	Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

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409-740-0554 (fax)

866-551-0090 (toll free)

- At the mock-up, it was noted that flex conduit has been installed for an electrical box above the punched opening. Due to the movement of flexible conduit, a sufficient air/water tight seal cannot be achieved. ZSC recommends that flexible conduit be replaced with rigid conduit. SpawGlass was informed of these concerns, and directed electrical contractors to replace conduit. Please ensure conduit is detailed per weather resistant barrier (WRB) manufacturer, prior to installation of façade. **See Photos 1-2**
- At the west elevation of the tunnel, ZSC observed installation of penetration detailing at the French drain through wall condition north and south of the pipe chase. At the time of observation, it was noted that penetration detailing had not been completed per manufacturer's standard details. Photos were later forwarded by SpawGlass of completed detailing. Photos provided by SpawGlass

appear to meet manufacturer's standard penetration detailing instructions, and installation appears to be sufficient. *See Photos 3-5*

3. ZSC observed installation of blindside membrane at the tunnel slab on grade. It was noted that previously installed membrane has become discontinuous at northeast column. ZSC recommends that the manufacturer be contacted to determine a warrantable detail with current conditions. *See Photo 6*



**Photo 1**  
**Overview of Flexible Conduit at Mock-Up**



**Photo 2**  
**Overview of Flexible Conduit Replaced with Rigid**  
[www.z6consulting.com](http://www.z6consulting.com)



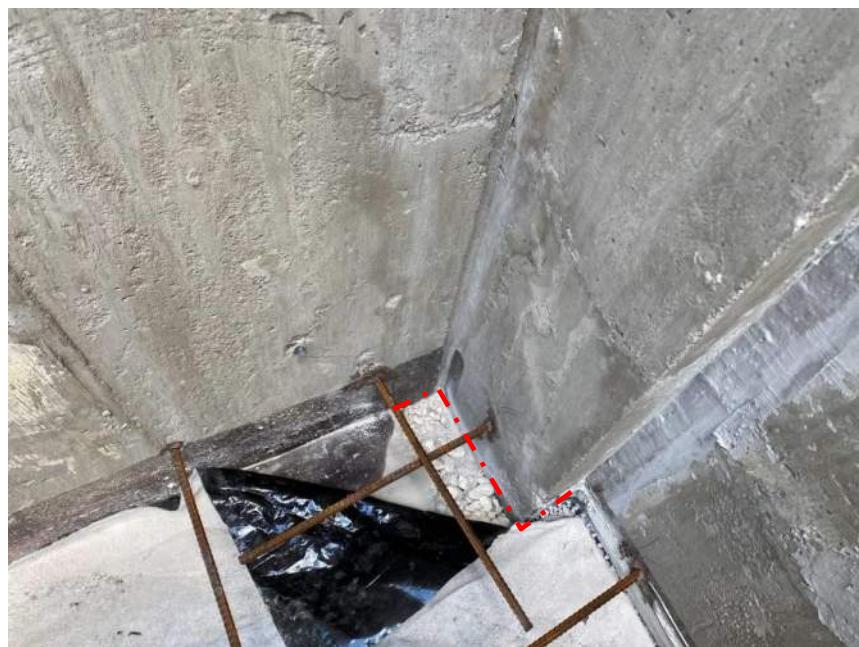
**Photo 3**  
**Overview of Incomplete Through Wall Penetration Detailing South of Pipe Chase**



**Photo 4**  
**Overview of Incomplete Through Wall Penetration Detailing North of Pipe Chase**



**Photo 5**  
**Example of Photo Verification Provided by SpawGlass**



**Photo 6**  
**Blind Side Membrane Discontinuous at Northeast Column**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Daily Field Report No. 06**  
**Day of Visit: August 27, 2020 (Thursday)**

**Issued:** August 28, 2020

**Prepared by:** Lane Coston

**In Attendance:**

Darryl Castleberry

Zero/Six

**Weather Summary for: 8/27/2020**

Temperature Low/High (°F) 75/99

Lane Coston

Zero/Six

Rain (inches)

0.00"

Gilbert Martinez

SpawGlass

Humidity Min/Max %

38/90

Tanner Hawkins

SpawGlass

Wind Speed (MPH) Avg/Gust

6/0

Events

None

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Brubacher

BSA

Gilbert Martinez

SpawGlass

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

- At the mock-up, the T-flashing had been installed. It was noted that the head flashing had been turned down onto the jamb flashing, however the jamb flashing did not turn into the head flashing as recommended by ZSC. Sealant was added at this condition, but ZSC recommends turning the jamb flashing into the head flashing and embedding with sealant. *See Photos 1-3*
- At the mock-up, it was noted that concrete curb has been placed per 14/A311. However, upon observation, this does not provide a way to detail the cold joint between sheathing and finished interior slab. ZSC recommends that an RFI be issued to address detailing in this area, and recommends considering CMU in lieu of a concrete curb. *See Photos 4-5*
- At the mechanical room, ZSC observed installation of blindside waterproofing. Laps and penetrations appear to be detailed per manufacturer's specifications.

However, it was noted several areas were missing detail sealant along with punctures and cuts in the blindside waterproofing. Chamberlin personnel were on site and made repairs to these deficiencies at the time of observation. No further deficiencies were noted and installation appears to be sufficient. **See Photos 6-10**



**Photo 1**  
**Overview of SS Flashing at Punched Opening**



**Photo 2**  
**Example of Head to Jamb Transition**

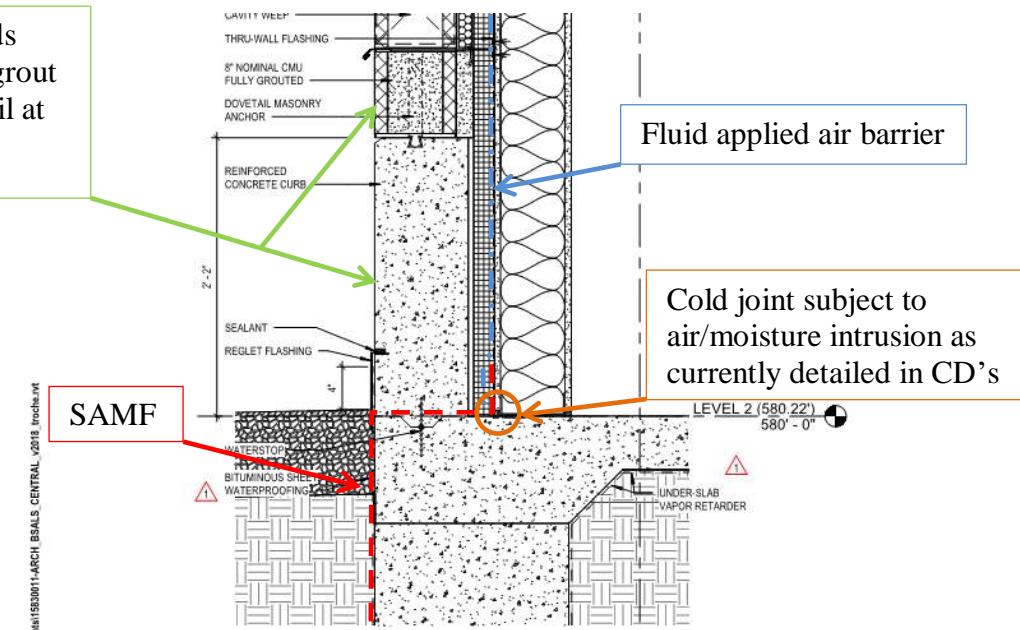


**Photo 3**  
**Overview of T-Flashing Installed at Sill Per Meeting on 8/18**



**Photo 4**  
**Overview of Concrete Curb**

ZSC recommends following solid grout filled CMU detail at scheduled curb.



**Photo 5**  
**Overview of Detail 14/A311**



**Photo 6**  
**Examples of Punctures and Tears in Blindside Membrane**



**Photo 7**  
**Example of Cut in Blindside Waterproofing Membrane**



**Photo 8**  
**ZSC Observing Chamberlin Personnel Making Repairs to Damaged Membrane**



**Photo 9**  
**Repairs Made to Damaged Membrane Observed by ZSC**



**Photo 10**  
**Example of Penetration Detailing**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Daily Field Report No. 07**  
**Day of Visit: October 30, 2020 (Friday)**

**Issued:** November 13, 2020

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez  
Gilbert Martinez  
Tanner Hawkins

Zero/Six  
SpawGlass  
SpawGlass

**Weather Summary for: 10/30/2020**  
Temperature Low/High (°F) 43/72  
Rain (inches) 0.00"  
Humidity Min/Max % 25/80  
Wind Speed (MPH) Avg/Gust 8/0  
Events None

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Distribution:**

Mark Brooks  
Wallace Schoen  
Steve Bruppacher  
Ramon Arteaga  
Taylor Roche

UT  
UT  
BSA  
BSA  
BSA

Tyler Patton  
Tanner Hawkins  
Gilbert Martinez  
Brandon McDermott  
Darryl Castleberry

SpawGlass  
SpawGlass  
SpawGlass  
Zero/Six  
Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

1. ZSC visited F&L Crane to observe the production of the prefabricated panels AB application and flashing detail. ZSC noted the coating of the AB application and in some areas it appeared that the DensGlass fibers were still visible. ZSC recommends for an additional coat of AB be rolled onto the panel to meet the manufacturer mil specification of 40 dry mil. **See Photo 1-3**
2. At the window opening, ZSC noted the SAMF at the perimeter and terminated at the exterior seam. Chamberlin appeared to have installed SAMF as per manufacturer installation specification. No deficiencies were noted at the time of observation and installation appeared to be sufficient. **See Photos 4**



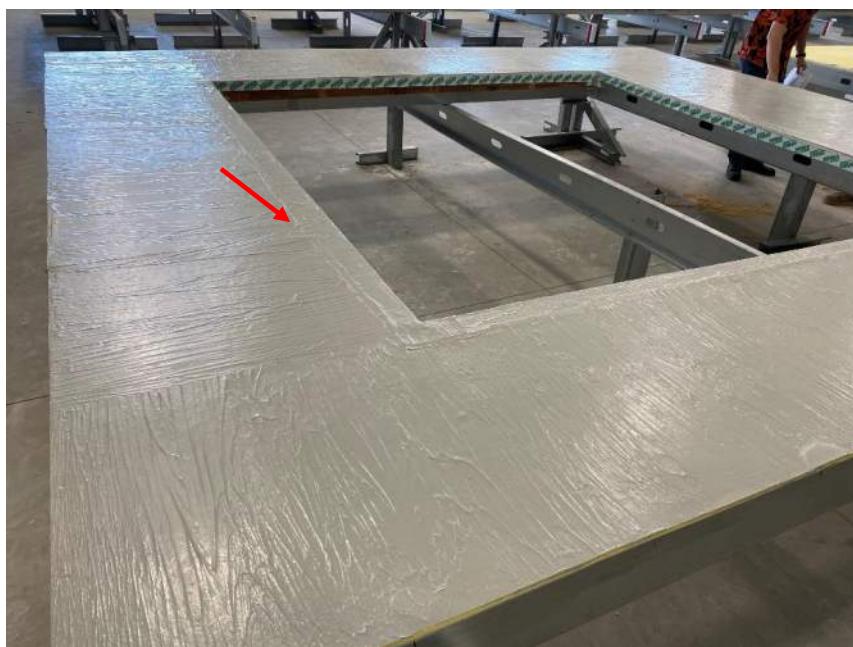
**Photo 1**  
**Example of Exposed DensGlass Exposed**



**Photo 2**  
**Example of Areas With Exposed Wall Fibers**



**Photo 3**  
**Example of Areas with Exposed Wall Fibers**



**Photo 4**  
**Example of Terminated SAMF**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Daily Field Report No. 08**  
**Day of Visit: November 2, 2020 (Monday)**

**Issued:** November 13, 2020

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 11/2/2020**

Temperature Low/High (°F) 39/77

Gilbert Martinez

SpawGlass

Rain (inches)

0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max %

18/89

Galveston

Wind Speed (MPH) Avg/Gust 6/0

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. ZSC visited F&L Crane to observe the installation of "T-Flashing" and the opening of the pre-fab panels by Chamberlain. Prior to the installation, Chamberlain set the metal flashing in place to ensure the flashing was manufactured to the opening measurements and cut. Due to the header portion not being manufactured/cut as per T-flashing specifications. ZSC recommends for Chamberlain to manufacture a new header flashing to comply with flashing specification. A partial installation was observed, three sides of the flashing were installed while ZSC was on site. **See Photos 1-4**

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)



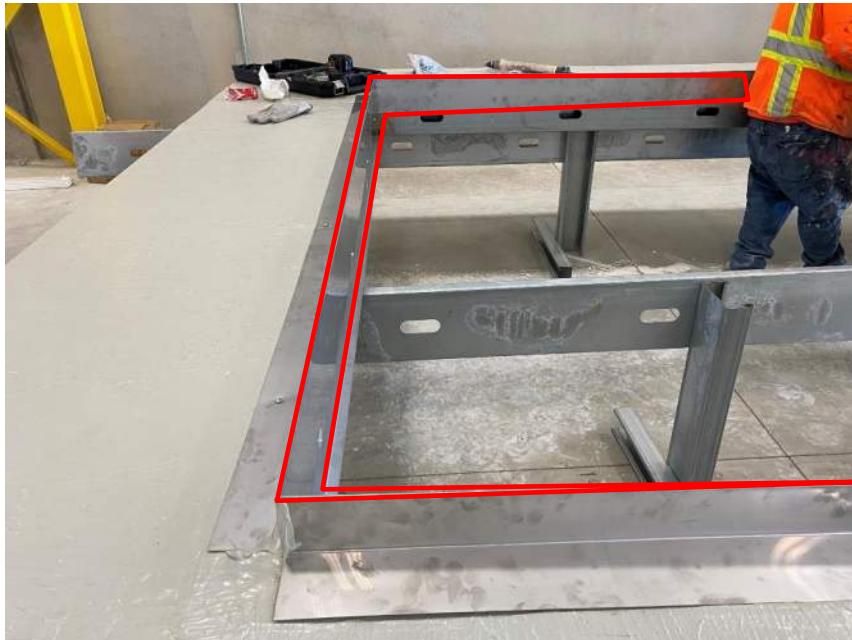
**Photo 1**  
**Example of Sealant Placed Prior to Flashing Installation**



**Photo 2**  
**Example of Sealant at T-Flashing Joint**



**Photo 3**  
**Example of Sealant at Fastener Penetration**



**Photo 4**  
**Example of Installed Flashing**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Daily Field Report No. 09**  
**Day of Visit: November 9, 2020 (Monday)**

**Issued:** November 13, 2020

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 11/9/2020**

Temperature Low/High (°F) 61/85

Gilbert Martinez

SpawGlass

Rain (inches)

0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max %

43/97

Galveston

Wind Speed (MPH) Avg/Gust

10/0

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. Note: ZSC visited F&L Crane to observe the continuation of T-flashing installation and fluid applied AB to Pre-fab panels.

Galveston, TX 77550

2. ZSC noted the installation of the header portion of the T-flashing, the drop down flaps it appeared that the T-flashing was not secured. ZSC recommends for a clamp to be applied to secure a tight seal in combination with Sealant until sealant has cured.

409-740-0090 (voice)

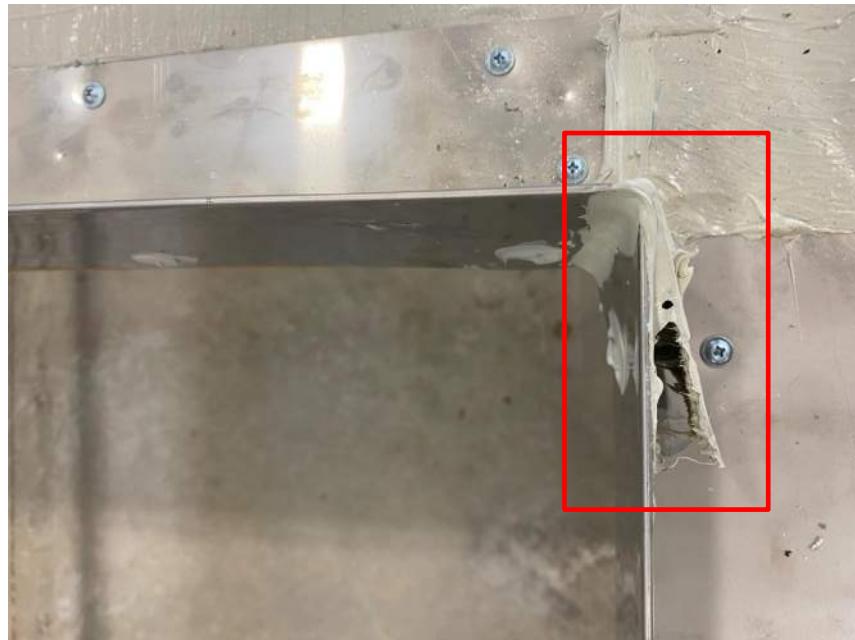
***See Photos 1-2***

409-740-0554 (fax)

3. ZSC noted the DensGlass joint compound, application appeared to have been done in a workmanlike manner and in accordance to manufacture installation specifications. No deficiencies were noted at the time of observation and application appeared to be sufficient. ***See Photos 3-4***

866-551-0090 (toll free)

4. ZSC observed the application of the fluid applied AB by Chamberlain Roofing. Wet mil samples were randomly sampled ranging 90 mil. Chamberlain appeared to be working in a workmanlike manner and application appeared to be in accordance to manufacture installation specification. No deficiencies were noted at the time of observation and installation appeared to be sufficient. *See Photos 5-8*



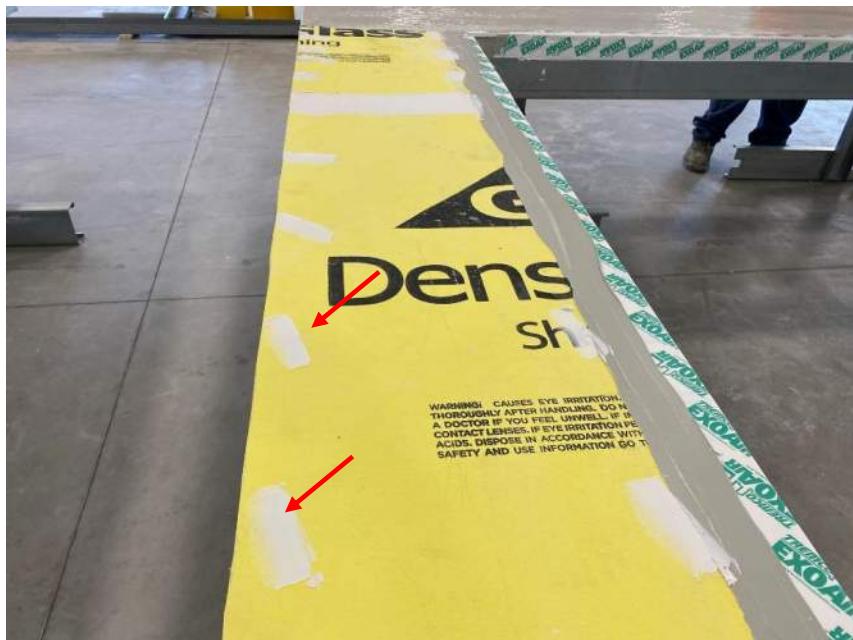
**Photo 1**  
**Example of Insufficient Adhesion**



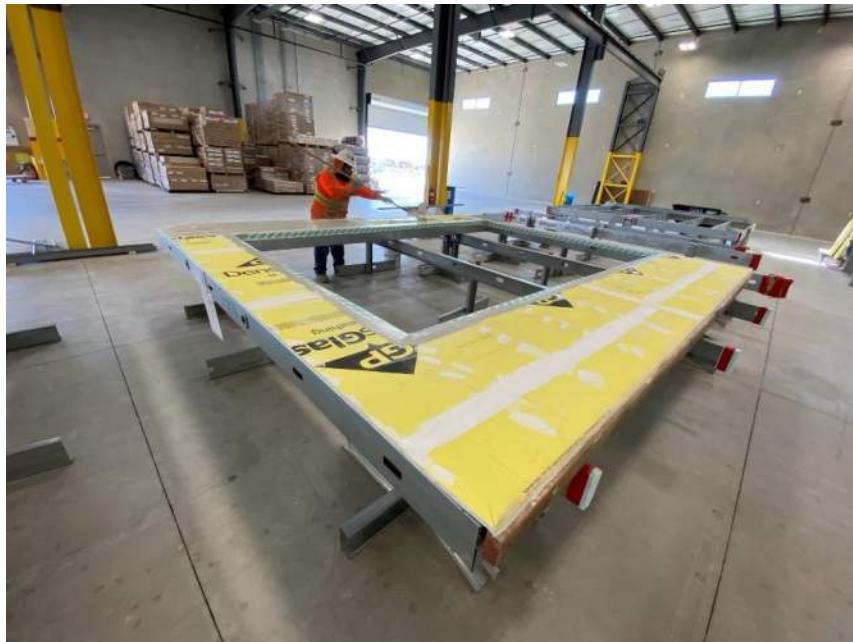
**Photo 2**  
**Example of Insufficient Adhesion**



**Photo 3**  
**Example of Joint Compound Application**



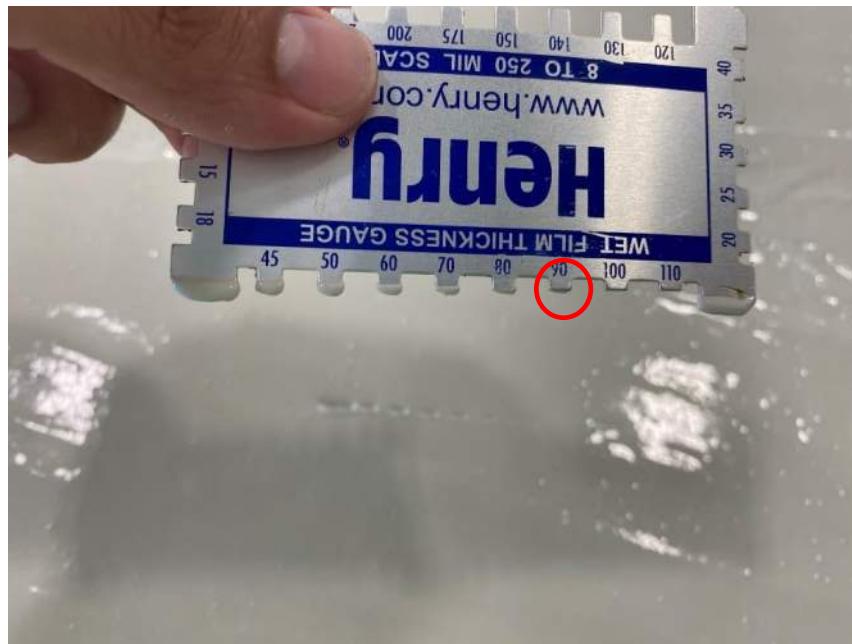
**Photo 4**  
**Example of Joint Compound Application**



**Photo 5**  
**Example of Ongoing AB Application**



**Photo 6**  
**Example of Wet Mil Reading**  
**90 mil**



**Photo 7**  
**Example of Wet Mil Reading 90 Mil**



**Photo 8**  
**Observation of Panels Awaiting QC by Chamberlain Roofing**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Daily Field Report No. 10**  
**Day of Visit: November 16, 2020 (Monday)**

**Issued:** December 3, 2020

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez  
Gilbert Martinez  
Tanner Hawkins

Zero/Six  
SpawGlass  
SpawGlass

**Weather Summary for: 11/16/2020**

Temperature Low/High (°F)	75/99
Rain (inches)	0.00"
Humidity Min/Max %	38/90
Wind Speed (MPH) Avg/Gust	6/0
Events	None

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Distribution:**

Mark Brooks  
Wallace Schoen  
Steve Bruppacher  
Ramon Arteaga  
Taylor Roche

UT  
UT  
BSA  
BSA  
BSA

Tyler Patton  
Tanner Hawkins  
Gilbert Martinez  
Brandon McDermott  
Darryl Castleberry

SpawGlass  
SpawGlass  
SpawGlass  
Zero/Six  
Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

1. ZSC visited F&L Crane to observed the ongoing fluid applied Air Barrier by Chamberlain Roofing. Thirty-Six (36) panels appeared to be complete and ready for random AB specimen testing. One specimen was taken from each panel to measure the dry millage reading of AB, which by project specification is a reading of 40mil minimum. Five (5) out of thirty-six (36) panels AB coating ranged from 28 mil-35 mil and did not meet the project specification of mil requirement. ZSC recommended for additional coating to be applied on panels where mil readings were low. Chamberlain was present to apply additional coating in recommended areas and make corrections. The additional Thirty-one (31) panels mil reading ranged from 40 mil- 80 mil dry. Chamberlain appeared to have been working in a workman like manner and no additional deficiencies were noted at the time of

observation. Application of AB appeared to be sufficient and in accordance to manufacture application specification and project documentation.

***See Photos 1-8***

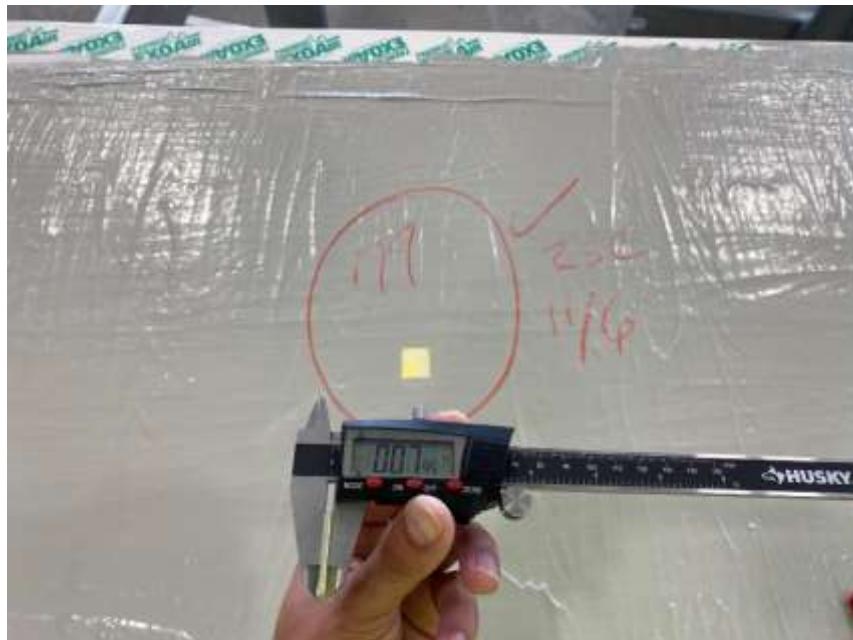
**Note:** Panels that needed additional coating are as follows:  
EX-L5-114, EX-L5-107, EX-L3-116, EX-L3-103 and EX-L3-115.



**Photo 1**  
**Example of Calibration**



**Photo 2**  
**Example of Mil Reading Met**



**Photo 3**  
**Example of Mil Reading Met**



**Photo 4**  
**Example of Recoating of Panel EX-L5-114**



**Photo 5**  
**Example of Recoating of Panel EX-L3-103**



**Photo 6**  
**Example of Recoating of Panel EX-L3-116**



**Photo 7**  
**Example of Recoating of Panel EX-L5-107**



**Photo 8**  
**Example of Recoating of Panel EX-L3-115**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Daily Field Report No. 11**  
**Day of Visit: November 23, 2020 (Monday)**

**Issued:** December 3, 2020

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez  
Gilbert Martinez  
Tanner Hawkins

Zero/Six  
SpawGlass  
SpawGlass

**Weather Summary for: 11/23/2020**

Temperature Low/High (°F)	52/68
Rain (inches)	0.00"
Humidity Min/Max %	45/57
Wind Speed (MPH) Avg/Gust	6/0
Events	None

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Distribution:**

Mark Brooks  
Wallace Schoen  
Steve Bruppacher  
Ramon Arteaga  
Taylor Roche

UT  
UT  
BSA  
BSA  
BSA

Tyler Patton  
Tanner Hawkins  
Gilbert Martinez  
Brandon McDermott  
Darryl Castleberry

SpawGlass  
SpawGlass  
SpawGlass  
Zero/Six  
Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

1. ZSC visited F&L Crane to observe the ongoing waterproofing of the prefabricated exterior panels. At the time of the observation ZSC noted the installation of the "T" flashing on panels that have been coated with AB. An observation of pressure clamps was made keep pressure at the corner tab to promote adhesion at SS flashing. Pressure clips were also utilized to promote adhesion but it appeared to not work as effective as the pressure clamps. ZSC recommends for the utilization of pressure clamps to be utilized vs pressure clips. In addition, any exposed seam to be sealed with additional sealant.

***See Photos 1-4***

2. ZSC noted the installation of SAMF at the perimeter of the window opening, the seams of the SAMF appeared to have been sealed at the seem as premanufacture installation specification. Application by Chamberlain appeared to have been

done in a workmanlike manner, no deficiencies were noted at the time of observation and installation appeared to be sufficient. *See Photos 5-6*

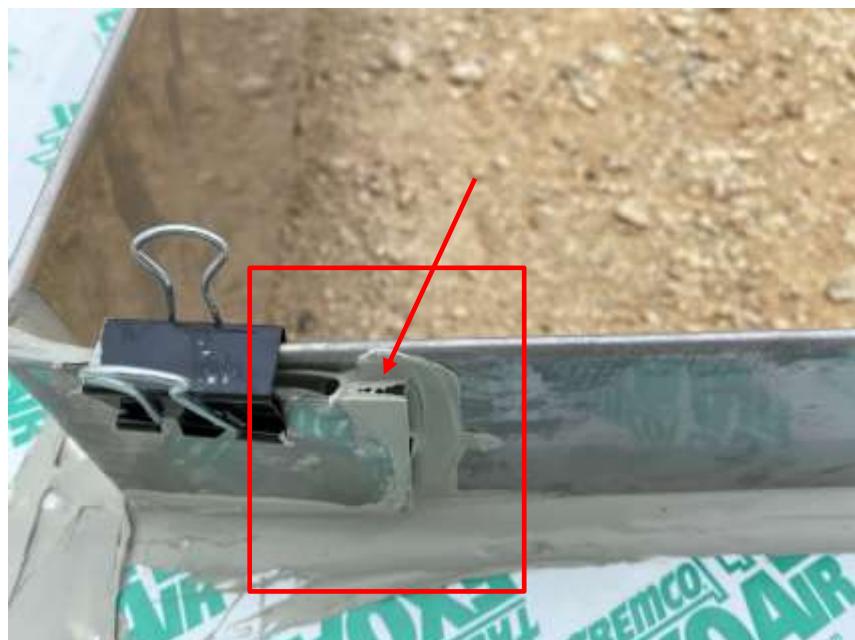
3. ZSC noted the installation of the SAMF at the exterior perimeter of the "T" flashing. Application of the SAMF appeared to have been sealed as per manufacture specifications at the seams. No deficiencies were noted at the time of observation and installation appeared to be sufficient. *See Photos 7-8*



**Photo 1**  
**Example of Recommended Pressure Clamp**



**Photo 2**  
**Example of Recommended Pressure Clamp**



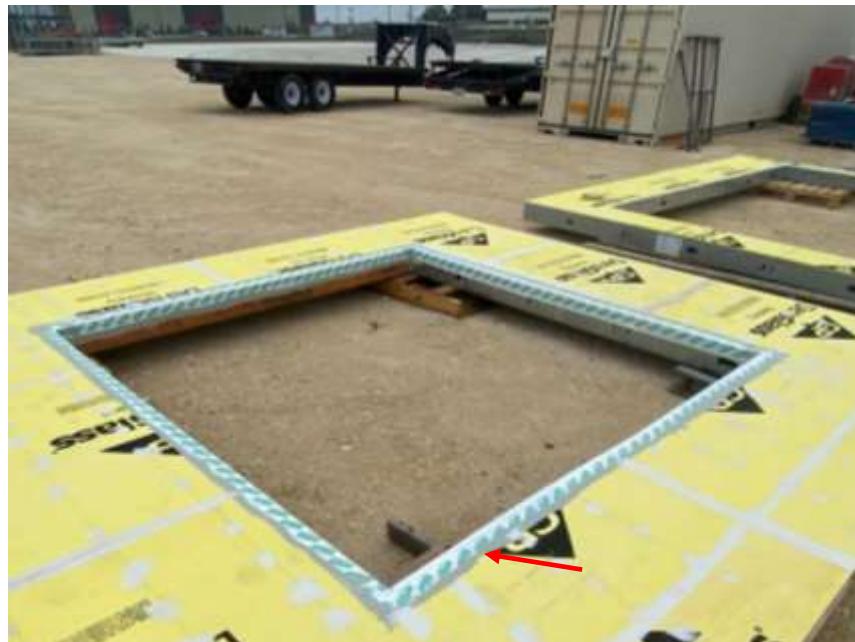
**Photo 3**  
**Example of Gaps at "T" Flashing Tab**



**Photo 4**  
**Example of Gaps at "T" Flashing Tab**



**Photo 5**  
**Example of SAMF at Window Opening**



**Photo 6**  
**Example of SAMF at Window Opening**



**Photo 7**  
**Example of SAMF Sealed at Terminations**



**Photo 8**  
**Example of SAMF Sealed at Terminations**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Daily Field Report No. 12**  
**Day of Visit: November 30, 2020 (Monday)**

**Issued:** December 3, 2020

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 11/30/2020**

Temperature Low/High (°F) 39/55

Gilbert Martinez

SpawGlass

Rain (inches)

0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max %

21/63

Galveston

Wind Speed (MPH) Avg/Gust 13/20

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

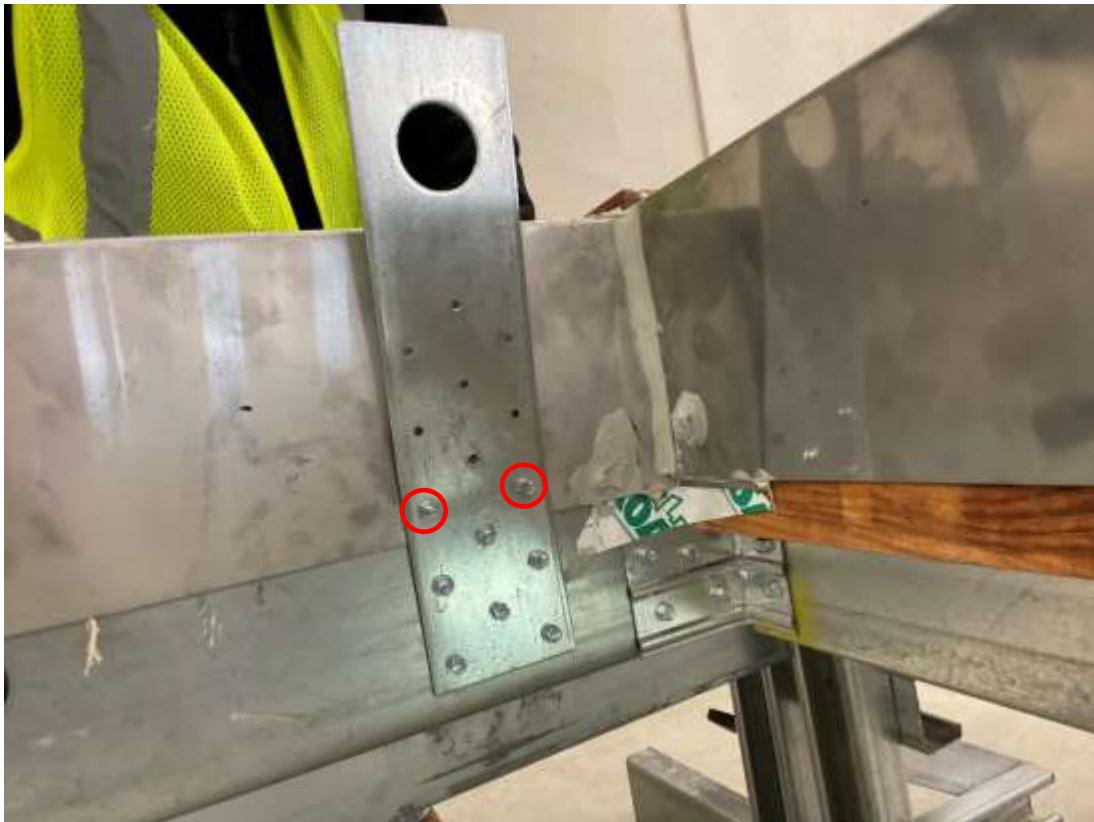
- ZSC visited F&L Crane to observe the ongoing waterproofing of the prefabricated exterior panels. It was noted that two anchor point were added at the mock panel for review. The anchors appear to have penetrated through the SS "T" flashing. Please ensure that anchor fasteners do not extend past the primary perimeter joint sealant location of the scheduled window, as this can create an avenue for moisture intrusion. It is further recommended that panel lift method be reconsidered and located outside of the window opening, as this can damage window perimeter flashing. Alternatively, T-flashings can be installed after panels have been set on site. **See Photos 1-2**
- Note: No workers on site or ongoing work was observed at the time of observation.

Galveston, TX 77550

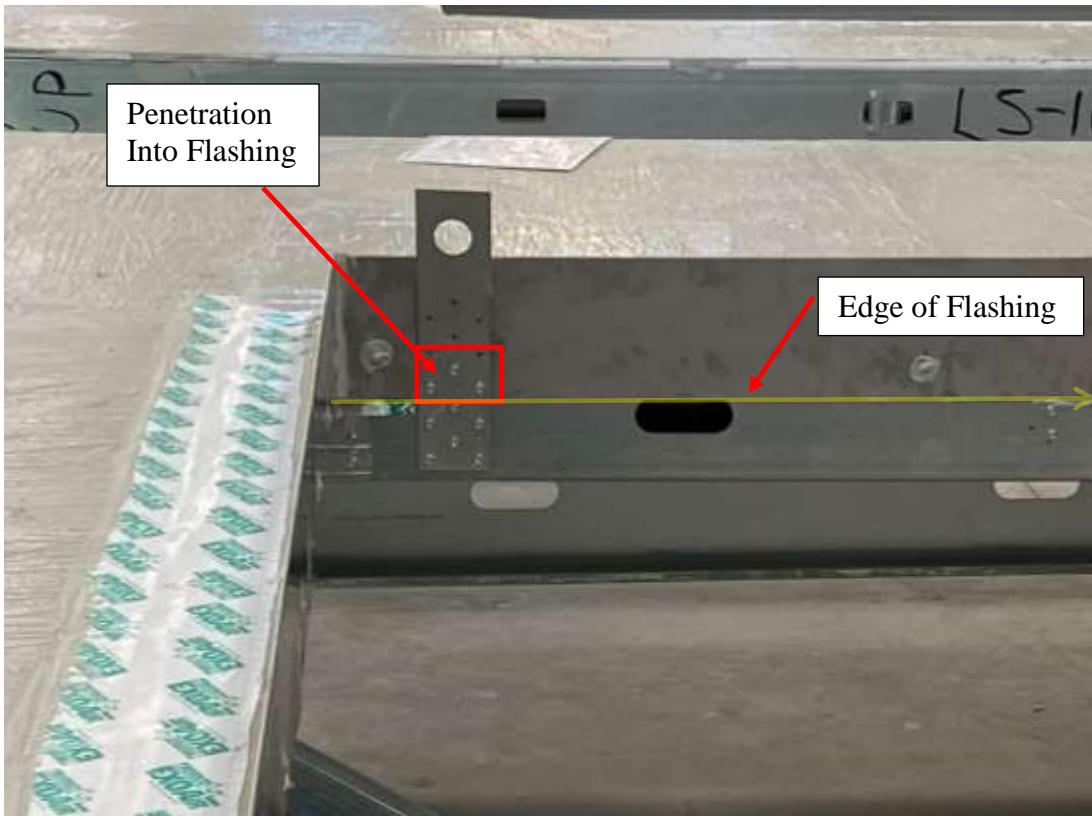
409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)



**Photo 1**  
**Example of Penetrations at SS Flashing**



**Photo 2**  
**Example of Penetrations at SS Flashing**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 13**  
**Day of Visit: December 9, 2020 (Wednesday)**

**Issued:** January 8, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez  
Gilbert Martinez  
Tanner Hawkins

Zero/Six  
SpawGlass  
SpawGlass

**Weather Summary for: 12/9/2020**

Temperature Low/High (°F)	37/71
Rain (inches)	0.00"
Humidity Min/Max %	24/82
Wind Speed (MPH) Avg/Gust	10/0
Events	None

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Distribution:**

Mark Brooks  
Wallace Schoen  
Steve Bruppacher  
Ramon Arteaga  
Taylor Roche

UT  
UT  
BSA  
BSA  
BSA

Tyler Patton  
Tanner Hawkins  
Gilbert Martinez  
Brandon McDermott  
Darryl Castleberry

SpawGlass  
SpawGlass  
SpawGlass  
Zero/Six  
Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

**Note:** ZSC noted the ongoing construction of exterior elevation panels at F&L Crane. The panels for the 3<sup>rd</sup> elevation appeared to be ready for site mobilization and onsite installation. Testing of the fluid applied AB has been measured and appeared to meet the manufacturer mil and project specifications for mil thickness. Additionally, the installation of the T-flashing was observed and appeared to have needed additional sealant at seams. Chamberlain roofing was on site to address areas that appeared to be suspect, ZSC recommended for additional sealant to be applied at specified locations. Contractor proceeded to address as recommended on site in a workmanlike manner. No deficiencies were noted at the time of observation and application appeared to be sufficient. ***See Photos 1-4***

1. ZSC observed the ongoing construction of the exterior panels for the 4<sup>th</sup> elevation. The application of the T-flashing sealant was observed, Chamberlin appeared to be working in a workmanlike manner and application appeared to be in accordance to manufacture installation specifications. Additionally, the application of the SAMF at the T-flashing and wall transition appeared to have been installed as per manufacture installation specifications. No additional deficiencies were noted at the time of observation and installation appeared to be sufficient. ***See Photos 5-7***
2. ZSC observed the application of bonding agent at the fastener penetrations and seams. Chamberlain appeared to be working in a workmanlike manner and application appeared to be in accordance to manufacture installation specifications. No deficiencies were noted at the time of observation and installation appeared to be sufficient. ***See Photos 8-10***



**Photo 1**  
**Example of Missing Sealant**



**Photo 2**  
**Example of Sealant Addressed**



**Photo 3**  
**Example of Sealant Needed**



**Photo 4**  
**Example of Sealant Addressed**



**Photo 5**  
**Example of Clamps Placed at Corners  
As Recommended**



**Photo 6**  
**Example of SAMF Terminated**



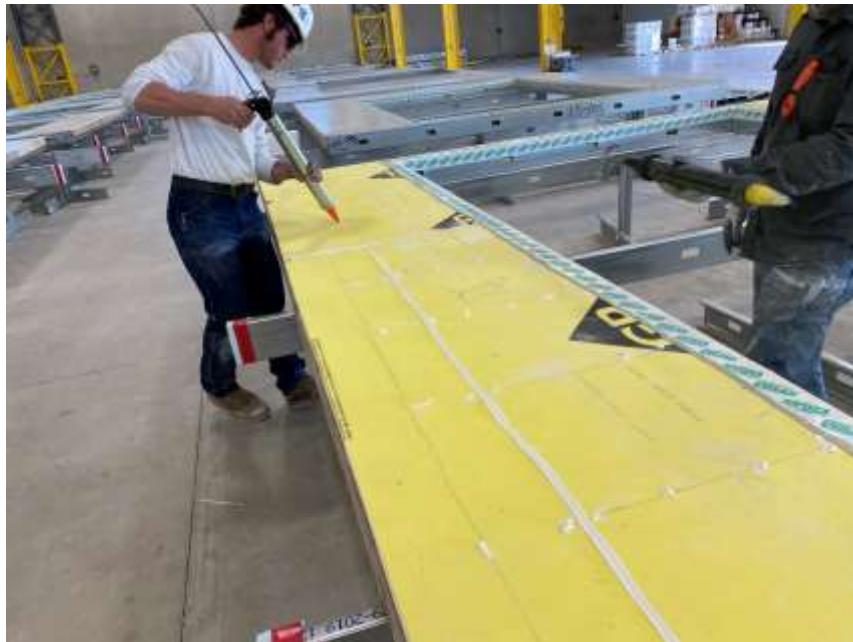
**Photo 7**  
**Example of AB Application**



**Photo 8**  
**Example Seam/ Penetration Compound Application**



**Photo 9**  
**Example of SAMF Termination Application**



**Photo 10**  
**Example Seam/ Penetration Compound Application**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 14**  
**Day of Visit: December 17, 2020 (Thursday)**

**Issued:** January 8, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez  
Gilbert Martinez  
Tanner Hawkins

Zero/Six  
SpawGlass  
SpawGlass

**Weather Summary for: 12/17/2020**

Temperature Low/High (°F)	26/64
Rain (inches)	0.00"
Humidity Min/Max %	26/89
Wind Speed (MPH) Avg/Gust	6/0
Events	None

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Distribution:**

Mark Brooks  
Wallace Schoen  
Steve Bruppacher  
Ramon Arteaga  
Taylor Roche

UT  
UT  
BSA  
BSA  
BSA

Tyler Patton  
Tanner Hawkins  
Gilbert Martinez  
Brandon McDermott  
Darryl Castleberry

SpawGlass  
SpawGlass  
SpawGlass  
Zero/Six  
Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

1. ZSC observed the ongoing construction of the exterior panels at F&L Crane. ZSC noted the application of the fluid applied AB to the 4<sup>th</sup> elevation panels, specimens were obtained to measure the mil thickness and insure application by the contractor meet project specifications. Samples measured between 45-65 dry mil thickness, application appeared to have been done in a workmanlike manner and in accordance to manufacturer specifications. **See Photos 1-5**  
**Note:** Panels L5-112 and L5-104 are to be recoated by contractor at specified locations. **See Photos 4-5**
2. ZSC noted the installation of the 3<sup>rd</sup> level panels at the construction site. The installation appeared to have been done in a workmanlike manner and as per construction documentation. No deficiencies were noted at the time of observation and installation appeared to be sufficient. **See Photos 6-8**

3. At the 3<sup>rd</sup> window opening from column A at west elevation level 3, ZSC noted the SS flashing to have been damaged. ZSC consulting recommends for contractor to further investigate the integrity of the SS flashing to insure no further damages have affected the performance of flashing. **See Photos 9-10**



**Photo 1**  
**Example of AB Reading**



**Photo 2**  
**Example of AB Reading**



**Photo 3**  
**Example of AB Reading**



**Photo 4**  
**Example of AB Recoating**



**Photo 5**  
**Example of AB Recoating**



**Photo 6**  
**Example of West Elevation Panels**



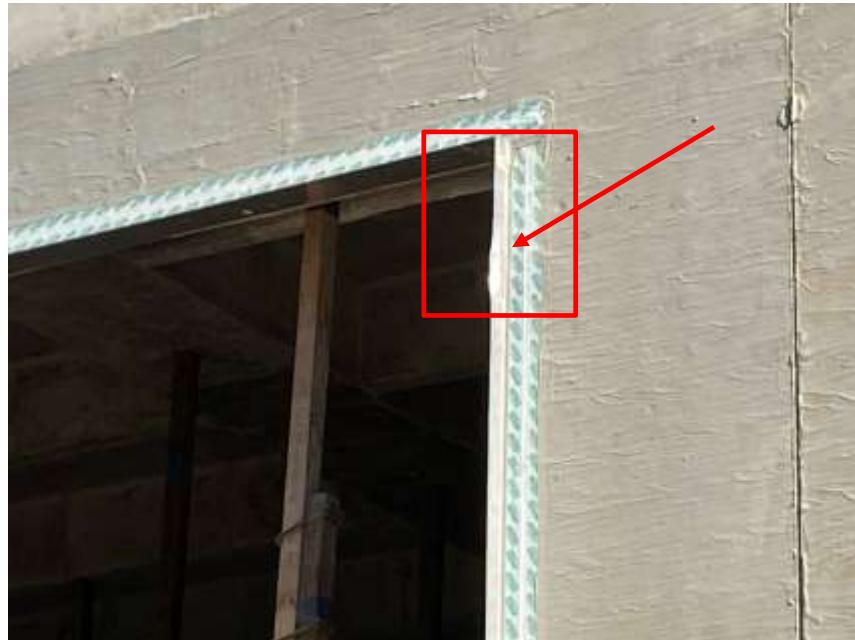
**Photo 7**  
**Example of North Elevation Panels**



**Photo 8**  
**Example of East Elevation Panels**



**Photo 9**  
**Example of SS Flashing Dent**



**Photo 10**  
**Example of SS Flashing Dent**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 15**  
**Day of Visit: December 30, 2020 (Wednesday)**

**Issued:** January 8, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 12/30/2020**

Temperature Low/High (°F) 45/73

Gilbert Martinez

SpawGlass

Rain (inches) 0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max % 76/93

Galveston

Wind Speed (MPH) Avg/Gust 6/0

Austin

Events Rain Event

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- ZSC visited the site to observe the ongoing construction related to the building envelope. Due to rain event, no exterior work was being performed at the time of observation. However, at the west elevation, level 3 between columns A-D, ZSC noted the commencement of the fluid applied AB onto the concrete. Application appeared to have been applied in a workman like manner and per application specifications. No deficiencies were noted at the time of observations and installation appeared to be sufficient. **See Photo 1**

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)



**Photo 1**  
**Example of AB Application**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 16**  
**Day of Visit: January 8, 2021 (Friday)**

**Issued:** January 8, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 1/8/2021**

Temperature Low/High (°F) 35/49

Gilbert Martinez

SpawGlass

Rain (inches) 0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max % 45/57

Galveston

Wind Speed (MPH) Avg/Gust 6/0

Austin

Events None

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Note: ZSC visited F&L Crane to observe the ongoing construction related to the building envelope.

Galveston, TX 77550

1. ZSC noted the level 4 panels SS T-flashing and SAMF at the perimeter of flashing. At the time of the observation ZSC noted the termination seams of the SAMF not installed as per manufacture installation specifications, leaving multiple fishmouths subject to moisture intrusion. It was also noted that SS flashing tabs have not been adequately bedded in sealant. ZSC recommends for SAMF to be removed and reapplied to promote adhesion and terminated per manufacture specifications. Additionally, it is recommended that SS tabs be bedded injected with sealant to prevent an avenue for moisture intrusion. **See Photos 1-6**

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409-740-0554 (fax)

866-551-0090 (toll free)

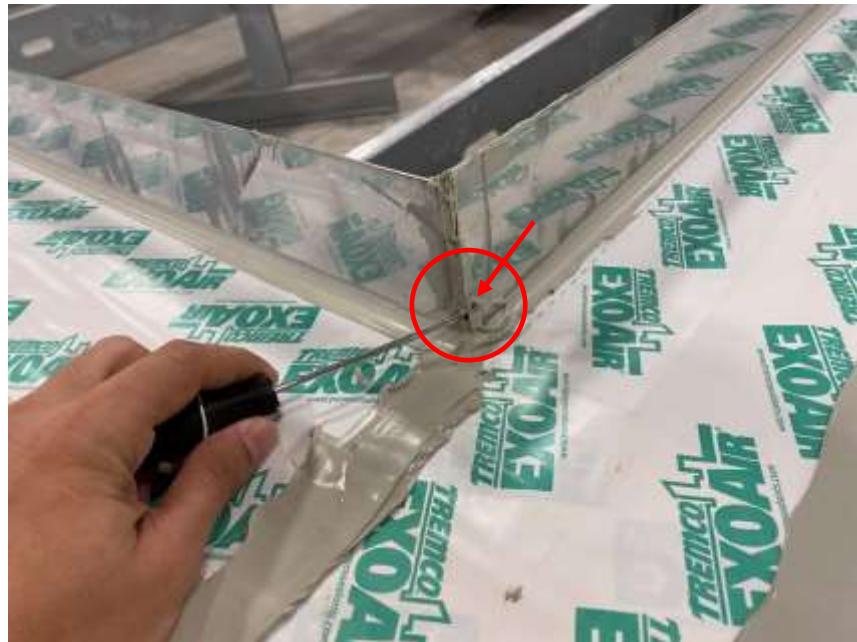
2. ZSC noted the level 4 panels SS T-flashing fasteners not sealed at the interior portion of the SS flashing, ZSC recommends for fasteners to be sealed to prevent moisture intrusion into the SS flashing and envelope. **See Photos 7-10**



**Photo 1**  
**Example of Dry Lap at SS Tab**



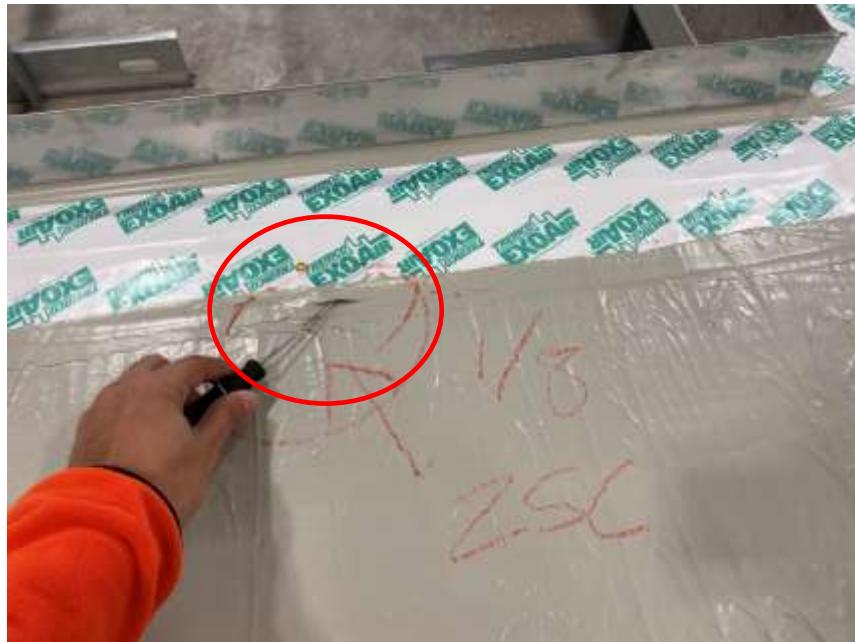
**Photo 2**  
**Example of No Sealant Bleed Out at Tabs**



**Photo 3**  
**Example of Opening in Sealant at SS**



**Photo 4**  
**Example of Opening in Sealant at SS**



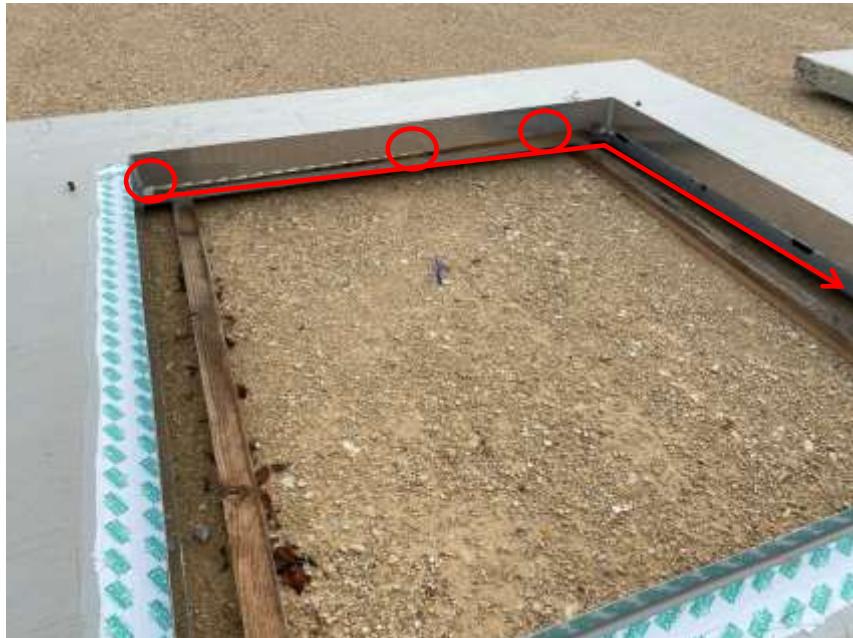
**Photo 5**  
**Example of “Fish Mouth” Opening in SAMF**



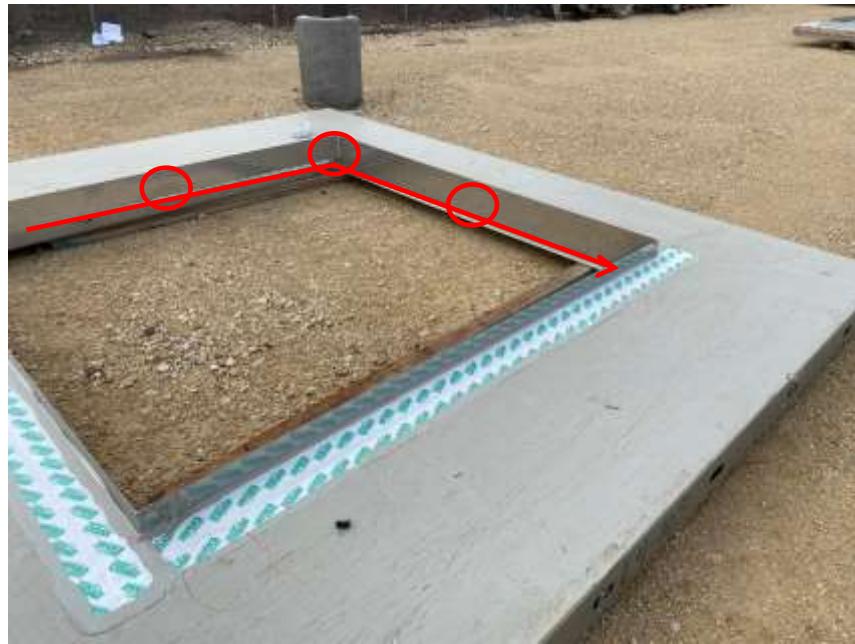
**Photo 6**  
**Example of “Fish Mouth” Opening in SAMF**



**Photo 7**  
**Example of Panels at the Exterior**



**Photo 8**  
**Example of Fasteners Missing Sealant**



**Photo 9**  
**Example of Fasteners Missing Sealant**



**Photo 10**  
**Example of Fasteners Missing Sealant**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 17**  
**Day of Visit: January 12, 2021 (Tuesday)**

**Issued:** January 13, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez  
Gilbert Martinez  
Tanner Hawkins

Zero/Six  
SpawGlass  
SpawGlass

**Weather Summary for: 1/12/2021**

Temperature Low/High (°F)	26/50
Rain (inches)	0.00"
Humidity Min/Max %	44/92
Wind Speed (MPH) Avg/Gust	6/0
Events	None

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Distribution:**

Mark Brooks  
Wallace Schoen  
Steve Bruppacher  
Ramon Arteaga  
Taylor Roche

UT  
UT  
BSA  
BSA  
BSA

Tyler Patton  
Tanner Hawkins  
Gilbert Martinez  
Brandon McDermott  
Darryl Castleberry

SpawGlass  
SpawGlass  
SpawGlass  
Zero/Six  
Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

1. ZSC visited F&L Crane to observe the ongoing construction of exterior panels, ZSC observed the AB at the perimeter of the panel opening that are currently being stored at the yard location of F&L Crane. AB appears to be experiencing delamination due to recent snow fall and freezing weather conditions. ZSC recommended for delaminated AB be removed and terminated with sealant to promote adhesion at the seam. Chamberlain was onsite to perform repairs, contractor appeared to be working in a workmanlike manner. No further deficiencies were noted at the time of observation and installation appeared to be sufficient. **See Photos 1-8**
2. ZSC observed the ongoing installation of the SS T-flashing, Installation by Chamberlain, materials appeared to be installed in a workmanlike manner and in accordance to project specifications. A bead of sealant was applied between the

SS and panel surface to promote adhesion. No deficiencies were noted at the time of observation and installation appeared sufficient. *See Photos 9-12*

3. ZSC observed the installation of the SS flashing terminations and seams of the panels located at the F&L Crane warehouse. ZSC recommends for SS seams to be sealed to prevent moisture intrusion into the SS flashing. *See Photos 13-15*
4. ZSC observed the installation of the SAMF at the perimeter of SS flashing, ZSC recommends for additional sealant to be applied at the location of exposed seams. Additionally, any damaged SAMF should be detailed and corrected as per manufacture specifications. *See Photos 16-18*

**Note:** Surface temperature of panels were checked prior to sealant application onto panel surface. *See Photo 19*



**Photo 1**  
**Example of that Experienced Delamination**



**Photo 2**  
**Example of Delamination**



**Photo 3**  
**Example of Delamination**



**Photo 4**  
**Example of Delamination**



**Photo 5**  
**Example of Delamination Removed**



**Photo 6**  
**Example of Delamination Removed**



**Photo 7**  
**Example of Delamination Removed**



**Photo 8**  
**Example of Sealant Application**



**Photo 9**  
**Example of Corners Compressed  
For Adhesion**



**Photo 10**  
**Example of Sealant Application**  
**At Seam**



**Photo 11**  
**Example of Sealant Present**



**Photo 12**  
**Example of Ongoing SS Application**



**Photo 13**  
**Example of Additional Sealant at Seam**



**Photo 14**  
**Example of Additional Sealant at Seam**



**Photo 15**  
**Example of Additional Sealant at Seam**



**Photo 16**  
**Example of Intrusion**  
**(Not supposed to be there)**



**Photo 17**  
**Example of exposed Seam**



**Photo 18**  
**Example of exposed Seam**



**Photo 19**  
**Example of Surface Temperature**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 18**  
**Day of Visit: January 14, 2021 (Thursday)**

**Issued:** January 15, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 1/14/2021**

Temperature Low/High (°F) 37/71

Gilbert Martinez

SpawGlass

Rain (inches) 0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max % 27/83

Galveston

Wind Speed (MPH) Avg/Gust 10/28

Austin

Events None

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

**Note:** ZSC met with SpawGlass Superintendent to review the remaining panels for mobilization review of level 4 and 5. Panels are now ready for mobilization to construction site, Chamberlin appeared to have performed ZSC recommendation in a workmanlike manner and in accordance to construction/manufacture specifications.

409-740-0090 (voice)

1. ZSC visited F&L Crane to observe the ongoing construction of exterior panels, ZSC observed the installation of the SS T flashing by Chamberlin. Chamberlin appeared to be working in a workmanlike manner. No deficiencies were noted at the time of observation and installation appeared to be as per construction documentation and appeared to be sufficient. **See Photos 1-3**

409-740-0554 (fax)

866-551-0090 (toll free)

2. ZSC visited F&L Crane to observe the ongoing construction of exterior panels. At the time of observation ZSC noted the ongoing installation of SS flashing on the panels that are located within the warehouse by Chamberlin. It was noted that SS T flashing previously noted to be loose beneath SAMF has been secured; however, fasteners were installed through existing SAMF strip-in membrane. ZSC recommends that breaches in membrane at fasteners be patched per manufacturer's specifications. **See Photos 4-5**
3. ZSC visited F&L Crane to observe the ongoing construction of exterior panels. At the time of observation ZSC noted the ongoing installation of SS flashing on the panels that are located within the warehouse by Chamberlin. ZSC observed the SAMF seams exposed at the perimeter of the SS flashing, ZSC recommends for seam to be detailed over with approved sealant. Chamberlin was onsite to perform recommendation, contractor appeared to be working in a workmanlike manner, no deficiencies were noted at the time of observation. **See Photo 6-10**



**Photo 1**  
**Example of Ongoing Flashing Installation**



**Photo 2**  
**Example of SS Flashing Finalized**



**Photo 3**  
**Example of SS Flashing Detailing**



**Photo 4**  
**Example of SS Flashing Needing Additional Fasteners**



**Photo 5**  
**Application of Fasteners**



**Photo 6**  
**Example of SAMF Applied Over and Detailed**



**Photo 7**  
**Example of Additional Sealant Applied at Seam**



**Photo 8**  
**Example of Additional Sealant Applied at Seam**



**Photo 9**  
**Example of Additional Sealant Applied at Seam**



**Photo 10**  
**Example of Additional Sealant Applied at Seam**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 19**  
**Day of Visit: January 18, 2021 (Monday)**

**Issued:** January 19, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 1/18/2021**

Temperature Low/High (°F) 39/75

Gilbert Martinez

SpawGlass

Rain (inches)

0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max %

45/65

Galveston

Wind Speed (MPH) Avg/Gust 12/0

Austin

Events None

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. ZSC visited F&L Crane to observe the ongoing construction of exterior panels. Panels for levels 4-5 appeared to be ready for onsite delivery and expected to be installed 01/19. **See Photos 1**

Galveston, TX 77550

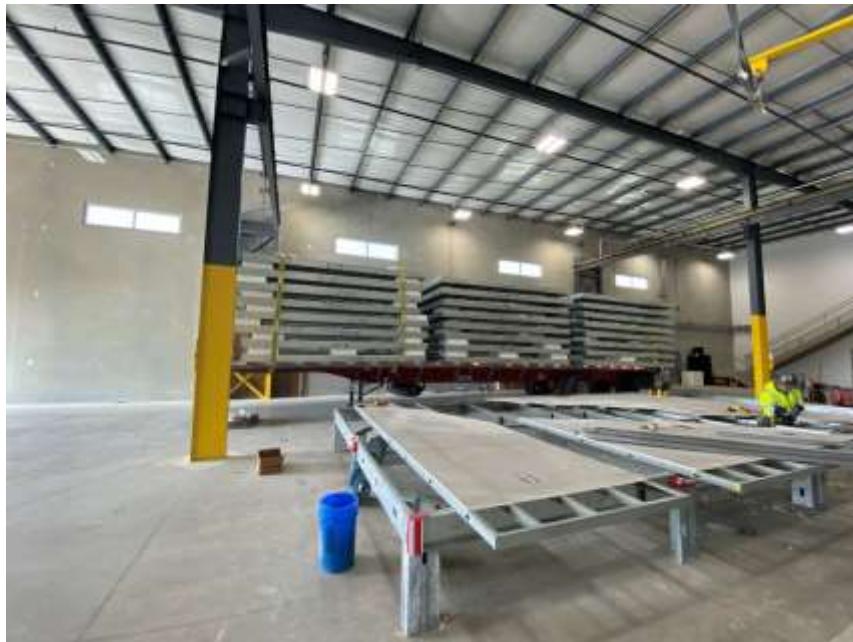
2. At the east elevation column D between level 5 and Roof parapet location, ZSC observed the installation of relief angle. Contractor appeared to be working in a workmanlike manner. Installation appeared to be as per construction documentation, no deficiencies were noted at the time of observation. **See Photos 2-3**

409-740-0090 (voice)

3. At the north elevation levels 3-5 column 1-4, ZSC noted the ongoing installation of the relief angles. Installation appeared to be as construction documentation, no deficiencies were noted at the time of observation and installation appeared to be sufficient. **See Photo 4**

409-740-0554 (fax)

866-551-0090 (toll free)



**Photo 1**  
**Example of Panel Ready for Onsite Delivery**



**Photo 2**  
**Example of Ongoing Relief Angle Install**



**Photo 3**  
**Example of Ongoing Relief Angle Install**



**Photo 4**  
**Example of Ongoing Relief Angle Install**  
**North Elevation**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 20**  
**Day of Visit: January 19, 2021 (Tuesday)**

**Issued:** January 20, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 1/19/2021**

Temperature Low/High (°F) 58/72

Gilbert Martinez

SpawGlass

Rain (inches) 0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max % 73/93

Galveston

Wind Speed (MPH) Avg/Gust 9/0

Austin

Events Cloudy

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

**Note:** ZSC on site to observe the delivery and installation of panel by F&L Crane.

Galveston, TX 77550

- At the east elevation level 3 between column B and C, ZSC observed the installation of panels. At the top left corner of the panel closest to column C, damages appear to have been during mobilization. ZSC recommends for panel sheeting to be repaired from stud to stud, and WRB be patched per manufacturer's specifications. **See Photos 1-5**
- At the west elevation level 4 between column A-C, ZSC observed the installation of prefabricated panels by F&L Crane. F&L Crane appeared to be working in a workmanlike manner, installation appeared to be as per construction documentation and specifications. No deficiencies were noted on panels at the

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

time of observation and ongoing installation appeared to be sufficient. **See Photos 6-8**

3. At the north elevation level 4 between column 1-4, ZSC observed the installation of prefabricated panels by F&L Crane. F&L Crane appeared to be working in a workmanlike manner, installation appeared to be as per construction documentation and specifications. No deficiencies were noted on panels at the time of observation and ongoing installation appeared to be sufficient. **See Photos 9-12**



**Photo 1**  
**Example of East Elevation Panels Installed**



**Photo 2**  
**Example of Panel Damaged**



**Photo 3**  
**Example of Panel Installation**



**Photo 4**  
**Example of Panel Installation**



**Photo 5**  
**Example of East Elevation**

**Level 4 Panel Commenced**



**Photo 6**  
**Example West Elevation Panels Installed**



**Photo 7**  
**Example of Panel Installation**



**Photo 8**  
**Example West Elevation**  
**Level 4 Panels Installed**



**Photo 9**  
**Example of North Elevation Panel Installation**



**Photo 10**  
**Example of Panel Installation**



**Photo 11**  
**Example of Panel Installation**



**Photo 12**  
**Example of Panel Installation**



**Photo 13**  
**Example of Level 4 North Elevation**  
**Panel Installation**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 21**  
**Day of Visit: January 25, 2021 (Monday)**

**Issued:** January 27, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 1/25/2021**

Temperature Low/High (°F) 65/76

Gilbert Martinez

SpawGlass

Rain (inches) 0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max % 32/84

Galveston

Wind Speed (MPH) Avg/Gust 10/0

Austin

Events None

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. ZSC on site to observe the ongoing installation of exterior wall panels. It was observed that installation of the level 4 and 5 panels have been finalized.  
**See Photos 1-3**

Galveston, TX 77550

2. At the south east corner level 3 panel L3-119, ZSC observed the DensGalss damaged above the window header location. ZSC recommends for damaged DensGlass to be removed and replaced from stud-to-stud, and WRB be repaired per manufacturer's specifications.

409-740-0090 (voice)

**See Photos 4-5**

409-740-0554 (fax)

866-551-0090 (toll free)



**Photo 1**  
**Example of West Elevation**



**Photo 2**  
**Example of North Elevation**



**Photo 3**  
**Example of East Elevation**



**Photo 4**  
**Example of Damaged Panel**



**Photo 5**  
**Example of Damage**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 22**  
**Day of Visit: January 29, 2021 (Friday)**

**Issued:** February 1, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 1/29/2021**

Temperature Low/High (°F) 33/69

Gilbert Martinez

SpawGlass

Rain (inches)

0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max %

49/92

Galveston

Wind Speed (MPH) Avg/Gust

10/0

Austin

Events

None

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the roof deck, ZSC noted the installation of the roof drains. Installation appeared to have been done in a workmanlike manner and as per construction documentation. No deficiencies were noted at the time of observation.

***See Photos 1-2***

Galveston, TX 77550

- At the roof deck, ZSC observed the ongoing installation of the penthouse framing. Installation appeared to have been done in a workmanlike manner and as per construction documentation. No deficiencies were noted at the time of observation. ***See Photo 3***

409-740-0090 (voice)

- Note:** ZSC noted the cast stone at the transitional wall of addition. ZSC to make recommendation after an onsite visit with project team on 02/03/2021. It is recommended for a RFI to be opened to address flashing concerns at vertical columns. ***See Photo 4***

409-740-0554 (fax)

866-551-0090 (toll free)



**Photo 1**  
**Example of Roof Drain Installation**



**Photo 2**  
**Example of Roof Drain Installation**



**Photo 3**  
**Example of Ongoing Penthouse Construction**



**Photo 4**  
**Example of Flashing Detail Integration Concern**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 23**  
**Day of Visit: February 1, 2021 (Monday)**

**Issued:** February 1, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 2/1/2021**

Temperature Low/High (°F) 35/65

Gilbert Martinez

SpawGlass

Rain (inches) 0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max % 27/82

Galveston

Wind Speed (MPH) Avg/Gust 9/0

Austin

Events None

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the east elevation levels 3-5, ZSC noted the installation of the aluminum window frames at openings. Upon observation, it was noted that the seam between sill pan and storefront systems appears to be dry (no sealant embeds). Frames should be bed in a continuous bead of sealant at the transition into the sill pan. ZSC recommends for exposed seam between storefront system and sill pan to be sealed from the face of opening and through the interior and tooled as per manufacturer to prevent moisture intrusion. **See Photos 1-6**

Galveston, TX 77550

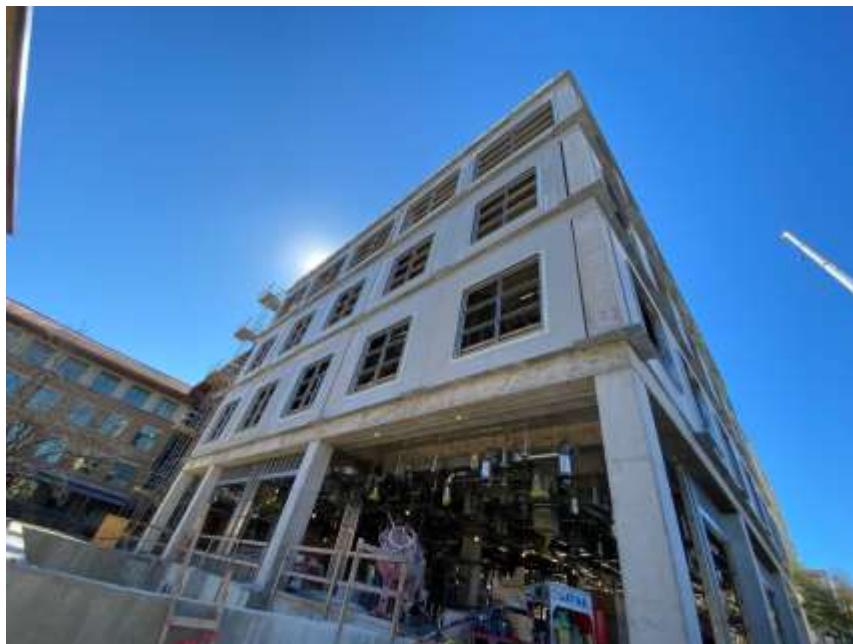
409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)



**Photo 1**  
**Example of Aluminum Window Frame Installation**



**Photo 2**  
**Example of Aluminum Window Frame Installation**



**Photo 3**  
**Example of Exposed Seam**



**Photo 4**  
**Example of Exposed Seam**



**Photo 5**  
**Example of Sealant to be Tooled**



**Photo 6**  
**Example of Exposed Seam**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 24**  
**Day of Visit: February 3, 2021 (Wednesday)**

**Issued:** February 7, 2021

**Prepared by:** Darryl Castleberry

**In Attendance:**

Darryl Castleberry

Zero/Six

Tanner Hawkins

SpawGlass

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Weather Summary for: 2/3/2021**

Temperature Low/High (°F) 37/76

Rain (inches) 0.00"

Humidity Min/Max % 42/93

Wind Speed (MPH) Avg/Gust 13/30

Events None

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1. At the level 6 roof, ZSC observed conditions of tie-in to the existing structure. Per detail 4/A313, SS flashing is scheduled to be installed at the base of punched openings, allowing for installation of SS EJ cover. ZSC recommends that the cast stone between windows be removed in order to continue the through wall EJ cover at the substrate, as the installation of a reglet at the face of stone can allow moisture to migrate behind the dry-line of the existing WRB. It is further recommended that similar precautions be taken at the existing CW to be removed. CW remediations should be made prior to installation of roofing materials in order to prevent the entrance of moisture into completed roofing systems, as current conditions do not allow for a compete dry-in. **See Photos 1-3**
2. At the north elevation, levels 3 and 5, GH continues installation of storefront framing. Upon observation, it was noted that daylight continues to be observed

between the system sill pan and framing, indicating that insufficient sealant beads are being applied at the time of installation. ZSC recommends that sealant be injected into the voids, and thicker beads be installed prior to frame embedment in order to prevent moisture intrusion. Current installation practices will lead to failures during performance testing. **See Photos 4-8**

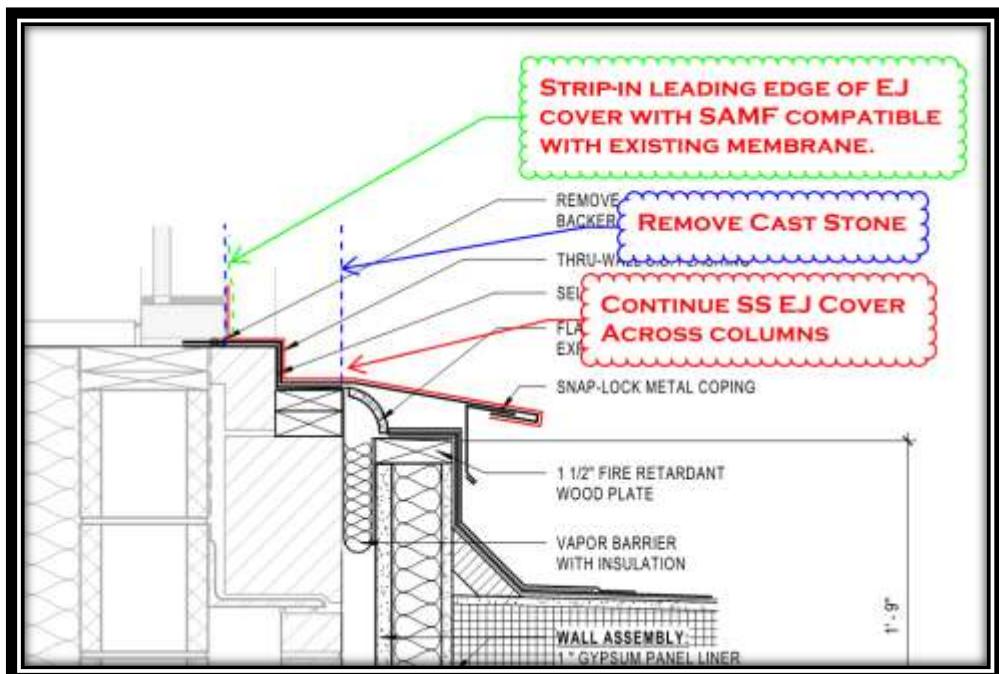
3. At the north elevation, it was noted that sill pans are being installed leaving a  $\frac{1}{4}$ " gap at sill flashing. While this meet manufacturer's warrantable conditions, ZSC recommends no less than a  $\frac{3}{8}$ " wide sealant joint in order to prevent premature separation. Minimum sealant joint depth in order to maintain warranty is  $\frac{1}{4}$ ". Per project specifications, "*Joints shall have depth equal to one-half the width.*" If the width is to remain at  $\frac{1}{4}$ " a 1:1 joint ratio will be created, which does not comply with specifications. In order to comply with both project and manufacturer's specifications for warrantable conditions, a minimum of  $\frac{1}{2}$ " is required at all sealant joints. **See Photo 9**
4. At the north, east, and west elevations, it was noted that relief angle bolts extend beyond the head of nuts, which will prevent proper detailing of SAMF transition to the angle. ZSC recommends that excess bolt threads be removed flush with the nut in order to aide in detailing of WRB, and to prevent interruptions at scheduled cast stones. **See Photo 10**



**Photo 1**  
**Overview of Current EJ Condition**



**Photo 2**  
**Overview of Current EJ Condition at CW**



**Photo 3**  
**Example of ZSC Recommendations**



**Photo 4**  
**Overview of Gasket Installation Underway**



**Photo 5**  
**Overview of Storefront Framing Installation Underway**



**Photo 6**  
**Example of Insufficient Sealant Bed at Sill Pan Prior to Framing Installation**



**Photo 7**  
**Example of Voids in Sealant Bed at Back of Sill Pan**



**Photo 8**  
**Example of Unsealed Gaps Between Sill Pan and Framing**



**Photo 9**  
**Example of Minimal Spacing for Sealant Joint**



**Photo 10**  
**Example of Bolt Threads Protruding Past Nuts**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 25**  
**Day of Visit: February 24, 2021 (Wednesday)**

**Issued:** February 28, 2021

**Prepared by:** Darryl Castleberry

**In Attendance:**

Darryl Castleberry	Zero/Six	Temperature Low/High (°F)	65/83
Gilbert Martinez	SpawGlass	Rain (inches)	0.00"
Tyler Patton	SpawGlass	Humidity Min/Max %	41/81
Tanner Hawkins	SpawGlass	Wind Speed (MPH) Avg/Gust	8/17

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Distribution:**

Mark Brooks	UT	Tyler Patton	SpawGlass
Wallace Schoen	UT	Tanner Hawkins	SpawGlass
Steve Bruppacher	BSA	Gilbert Martinez	SpawGlass
Ramon Arteaga	BSA	Brandon McDermott	Zero/Six
Taylor Roche	BSA	Darryl Castleberry	Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

1. ZSC on site to review conditions regarding tie-ins between concrete columns and wall panels. Upon observation, it was noted that spacing between panels and columns range between 1 ¼"-1 ½" in most conditions; however, at the east elevation, level 5, it was noted that the wall panel immediately south of column line B has created a 4" gap that cannot be detailed with traditional methods. ZSC recommends that the panel south of column line B have additional CFMF and sheathing installed to provide a maximum gap of 1 ½" away from the column, in order to provide a transitional gap allowing for traditional waterproofing details. Following completion of added materials, ZSC recommends that gaps between all panels and columns be treated with backer rod and sealant, then stripped-strip in with the approved SAMF. **See Photos 1-6**

2. ZSC observed installation of relief angles and discussed sequencing of flashings and detailing with SpawGlass. It was noted that there are gaps between recessed and protruding relief angles. ZSC recommends that the vertical gap between angles be treated with the approved sealant prior to installation of SS flashings. It is further recommended that SS flashings be installed at the recessed angles, past the horizontal gap at the protruding angles. SS flashing at protruding angles should then be installed, lapping 4" over recessed angle flashing in 3 full lines of sealant per SMACNA standards. SS flashings can then be stripped-in per traditional detailing methods. **See Photo 7**
3. ZSC reviewed CD's with SpawGlass to determine constructability of EJ materials at the east elevation. Upon observation, it appears that the attachment of membrane from the existing structure to the building addition's CW poses constructability concerns. Securement of the EJ membrane to the existing structure is scheduled to be installed through a narrow (half brick) opening. This will not allow for proper detailing. Additionally, the sequencing requires membrane to be installed prior to installation of CW system which can allow membrane to become damaged prior to completion. ZSC recommends that an RFI be issued to: 1) Determine what membrane is to be used for EJ detailing (ZSC recommends a product similar to Tremco Pro Glaze ETA). 2) Request clarification for detailing, and determine if additional brick removal and installation of break metal flashing would benefit the constructability, and performance characteristics of the EJ detail. **See Photo 8**



**Photo 1**

**Overview of Typical Gaps Observed at Panel to Column Transitions**



**Photo 2**  
**Example of 1 1/4" Gap at Panel to Column Transition**



**Photo 3**  
**Example of 1 1/2" Gap at Panel to Column Transition**



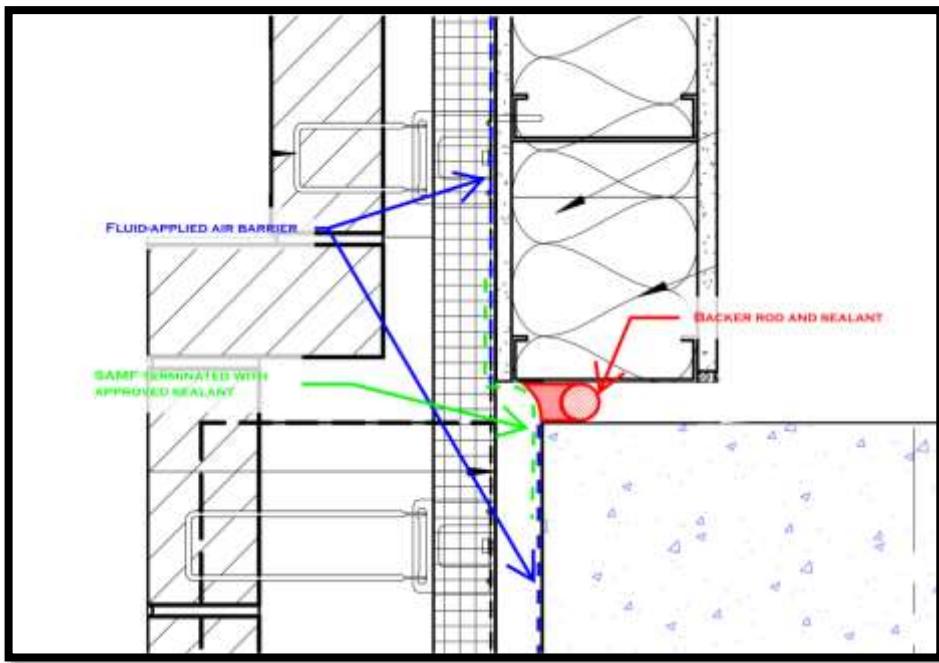
**Photo 4**

**Overview of Excess Gap at Panel to Column Transition at Column Line B L5**

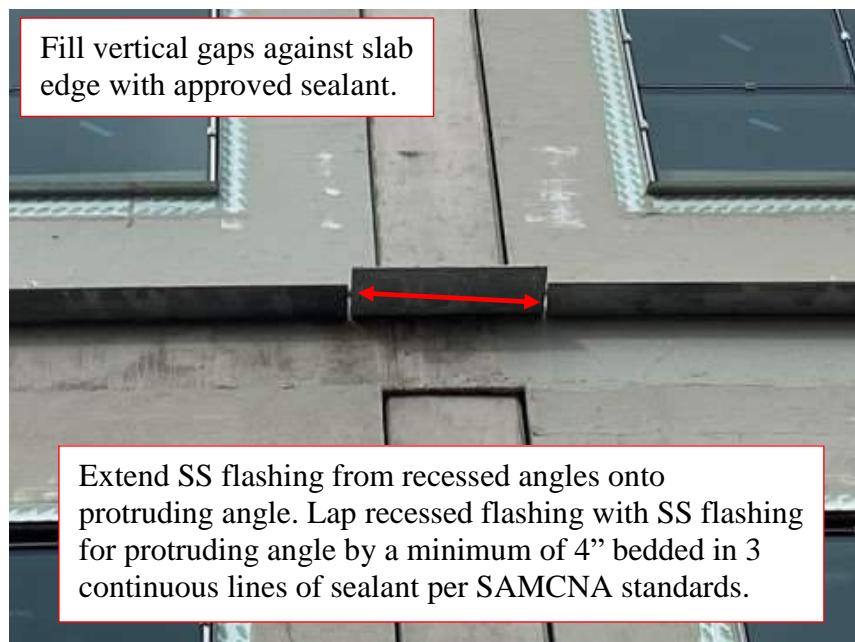


**Photo 5**

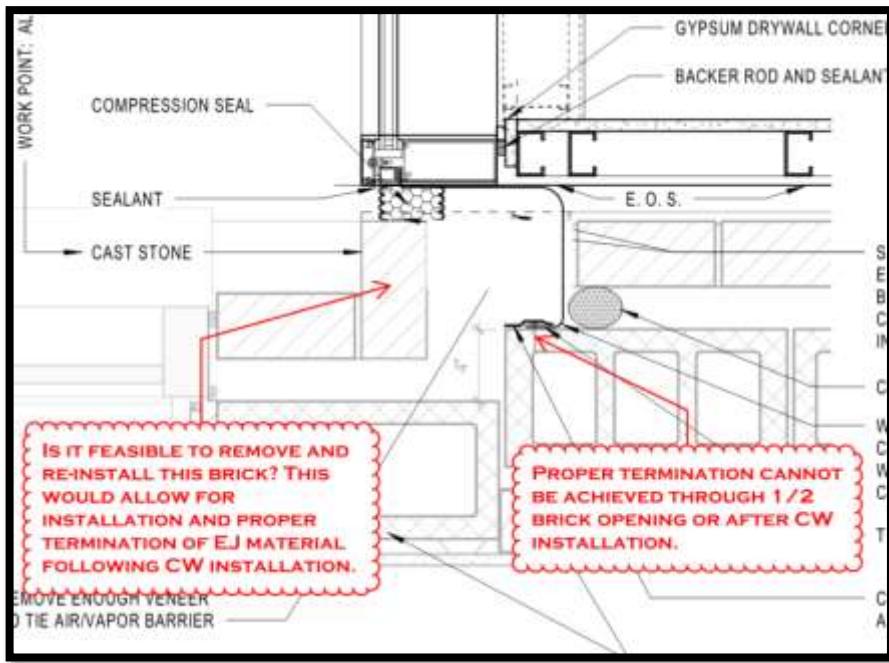
**Example of 4" Gap at Panel to Column Transition at Column B L5**



**Photo 6**  
**Example of Detailing with Field Conditions**



**Photo 7**  
**Example of Gaps Between Recessed and Protruding**



**Photo 8**  
**Overview of EJ Considerations**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 26**  
**Day of Visit: March 3, 2021 (Wednesday)**

**Issued:** March 3, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 3/3/2021**

Temperature Low/High (°F) 36/71

Gilbert Martinez

SpawGlass

Rain (inches) 0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max % 30/86

Galveston

Wind Speed (MPH) Avg/Gust 3/0

Austin

Events None

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. At the east elevation, ZSC observed the ongoing installation of the windows at prefabricated panel openings. Contractor appeared to be working in a workmanlike manner and ongoing installation appeared to be sufficient. No deficiencies were noted at the time of observation. **See Photos 1-2**

Galveston, TX 77550

2. At the Penthouse location, ZSC observed the ongoing installation of the Densglass Sheathing. At the east wall of Penthouse, the Densglass appeared to be damaged at the seams. ZSC recommends for damaged Densglass be removed and replace according to manufacturer installation specifications. **See Photos 3-5**

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)



**Photo 1**  
**Example of Ongoing Window Installation**



**Photo 2**  
**Example of Ongoing Window Installation**



**Photo 3**  
**Observation of Ongoing Sheathing Installation**



**Photo 4**  
**Example of Damaged Densglass**



**Photo 5**  
**Example of Damaged Densglass**  
**(Interior View)**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 27**  
**Day of Visit: March 12, 2021 (Friday)**

**Issued:** March 16, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 3/12/2021**

Temperature Low/High (°F) 69/82

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

50/90

Wind Speed (MPH) Avg/Gust 14/15

Events None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

1. ZSC was on-site to observe the installation of the complete waterproofing system being installed by the Chamberlin team. **First** observation was, the span between the pre-fabricated panel and concrete column. The sealant joint measured a little over 3". ZSC recommends adding framing and sheathing, in order to close the gap to maintain a warrantable joint. **Second** observation was, the air barrier that has been installed is gassing, creating air bubbles in the air barrier. Upon further review, it was noticed that all bubbles are being caused by honeycombing in the substrate. Per manufacturer's specs, gaps larger than 1/16" need to be filled, prior to air barrier installation. **Third** observation was, some framing has been cut or adjusted, leaving or creating gaps that are greater than 2". Also, some of the framing is set too far out, causing the holes in the framing to line up with the sealant line creating a gap that is unwarrantable, per manufacturers specs. ZSC

recommends adding framing and sheathing to close said gap. In areas where the gap is okay, but the pre-fabricated panel sits out too far, ZSC recommends adding a piece of sheet metal flashing in order to cover the holes in the framing. Detailing the sheet metal flashing is also recommended, in order to maintain a warrantable condition. **Fourth** observation was, water behind the SAMF on the pre-fabricated panels. ZSC recommends removing the SAMF, letting everything dry out and reinstall the SAMF and detail with sealant. **Fifth** observation was, the substrate in which Chamberlin accepted, for installing air barrier. There are areas that should have been grinded down or patched with an approved material, in order to apply air barrier to a smooth clean substrate. *See Photos 01-14*



**Photo 1**  
Overview of Area of Installation



**Photo 2**  
Panel to Column Control Joint at 3" Wide or More



**Photo 3**  
Example of Air Barrier Blistering on Concrete Columns



**Photo 4**

Close-up Example of Concrete Honeycombs Causing Air Pockets



**Photo 5**

Example of Air Pocket Opened with Honeycomb Behind



**Photo 6**  
Example of Framing with Gap at Head



**Photo 7**  
Framing Placed Where Holes are in Line with Sealant Line



**Photo 8**

Example of Joint Sealant Tooled at Head of Pre-Fabricated Panel



**Photo 9**

Sealant Tooled at Head of Panel



**Photo 10**  
Visible Water Behind SAMF



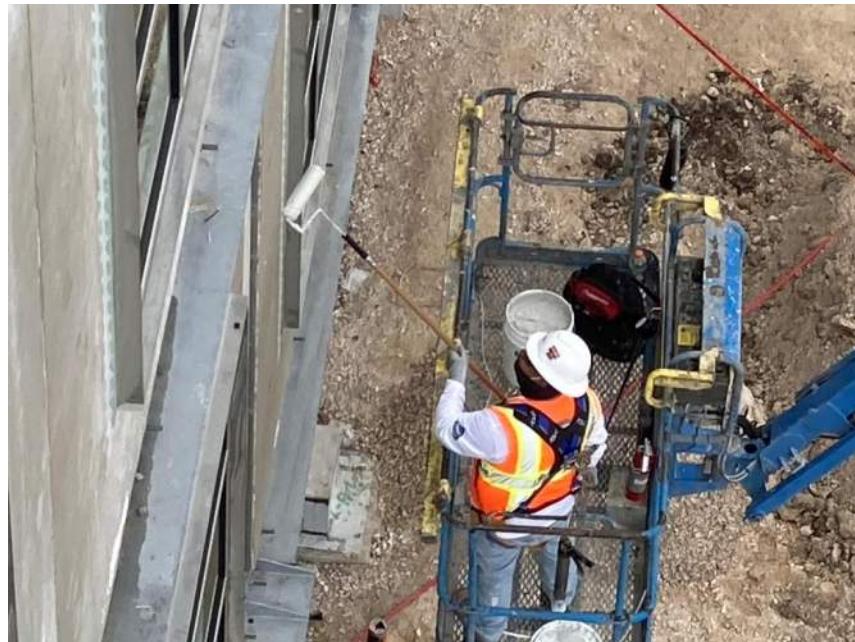
**Photo 11**  
Water Pouring out of SAMF After Cut



**Photo 12**  
Framing Cut to Fit Leaving Gap Un-sealable



**Photo 13**  
Air Barrier Already Installed with These types of Substrates



**Photo 14**  
Air Barrier Installation Work in Progress

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 28**  
**Day of Visit: March 17, 2021 (Wednesday)**

**Issued:** March 19, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez

Zero/Six

**Weather Summary for: 3/17/2021**

Temperature Low/High (°F) 56/79

Gilbert Martinez

SpawGlass

Rain (inches) 0.00"

Tanner Hawkins

SpawGlass

Humidity Min/Max % 17/84

Galveston

Wind Speed (MPH) Avg/Gust 18/26

Austin

Events None

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. ZSC on-site to observe nozzle testing of window system, representation from Spawglass, Performance Glass and Chamberlin were present to observe nozzle testing of the west elevation window system. **See Photo 1**

Galveston, TX 77550

2. ZSC commenced testing of the west elevation 3<sup>rd</sup> window from column A on the 3<sup>rd</sup> floor, Test 1. Water intrusion was observed at the bottom left and right corners. At the right corner of the interior, water was observed at the perimeter sealant from 2 pinholes observed in the sealant along the jamb sill transitioning. At the left corner of the interior, water was observed at the SS T flashing corner joint seem. The deficient sealant along the T flashing should be removed and reapplied, as per manufacturer installation specification at the sealant failure location and tooled to create a proper end dam. **See Photos 2-8**

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

3. At the west elevation 2<sup>nd</sup> window from column A, level 4 and 5 were nozzle tested. ZSC continued nozzle testing, keeping the nozzle 1-foot away from glass and moving it back forth with a constant water pressure of 30 psi 1 min. per linear foot. At the time of observation, test 2 and 3 did not appear to show evidence of water intrusion or window system failure. ***See Photos 9-10***



**Photo 1**  
**Windows Tested**



**Photo 2**  
**Observation of Testing**  
**Level 3, 3rd Window From Column A**



**Photo 3**  
**Example of Water Intrusion at Bottom Right Corner**



**Photo 4**  
**Water Intrusion at Bottom Right Corner**



**Photo 5**  
**Exterior Observation of Point of Entry**



**Photo 6**  
**Observation of Left Corner**



**Photo 7**  
**Example of Water Intrusion at Bottom Left Corner**



**Photo 8**  
**Exterior Observation of Point of Entry**



**Photo 9**  
**Observation of Testing**  
**Level 4, 2<sup>nd</sup> Window From Column A**



**Photo 10**  
**Observation of Testing**  
**Level 5, 2<sup>nd</sup> Window From Column A**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 29**  
**Day of Visit: March 19, 2021 (Friday)**

**Issued:** March 19, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez  
Gilbert Martinez  
Tanner Hawkins

Zero/Six  
SpawGlass  
SpawGlass

**Weather Summary for: 3/19/2021**  
Temperature Low/High (°F) 65/76  
Rain (inches) 0.00"  
Humidity Min/Max % 32/84  
Wind Speed (MPH) Avg/Gust 10/0  
Events None

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Distribution:**

Mark Brooks  
Wallace Schoen  
Steve Bruppacher  
Ramon Arteaga  
Taylor Roche

UT  
UT  
BSA  
BSA  
BSA

Tyler Patton  
Tanner Hawkins  
Gilbert Martinez  
Brandon McDermott  
Darryl Castleberry

SpawGlass  
SpawGlass  
SpawGlass  
Zero/Six  
Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

1. At the east elevations of the Penthouse, ZSC obtained specimen of the fluid applied air barrier. Four (4) samples of the east elevation were obtained, ranging from 26 mil-53 mil. ZSC recommends for east elevation to be recoated with fluid applied AB to keep a consistent mil thickness of a minimum of 40mil, as per project specification. **See Photos 1-5**
2. At the south elevation of the Penthouse, ZSC obtained specimen of the fluid applied air barrier. Due to ongoing application, only two (2) samples of the south elevation were obtained, ranging 28 mil and 60 mil. ZSC recommends for east elevation to be recoated with fluid applied AB to keep a consistent mil thickness of a minimum of 40mil, as per project specification. **See Photos 6-7**
3. At the Penthouse roof deck, ZSC noted the ongoing installation of base sheet membrane. Base sheet appeared to be installed up the parapet wall and heat

welded over parapet. No deficiencies were noted at the time of observation and installation appeared sufficient. **See Photo 8**

4. At the south elevation of scuppers of penthouse, ZSC recommends for SAMF to be installed at the perimeter, as per manufacture installation specifications to prevent moisture intrusion into envelope and roofing system. **See Photos 9-10**



**Photo 1**  
**Example of Calibration**



**Photo 2**  
**East Elevation Specimen Locations**



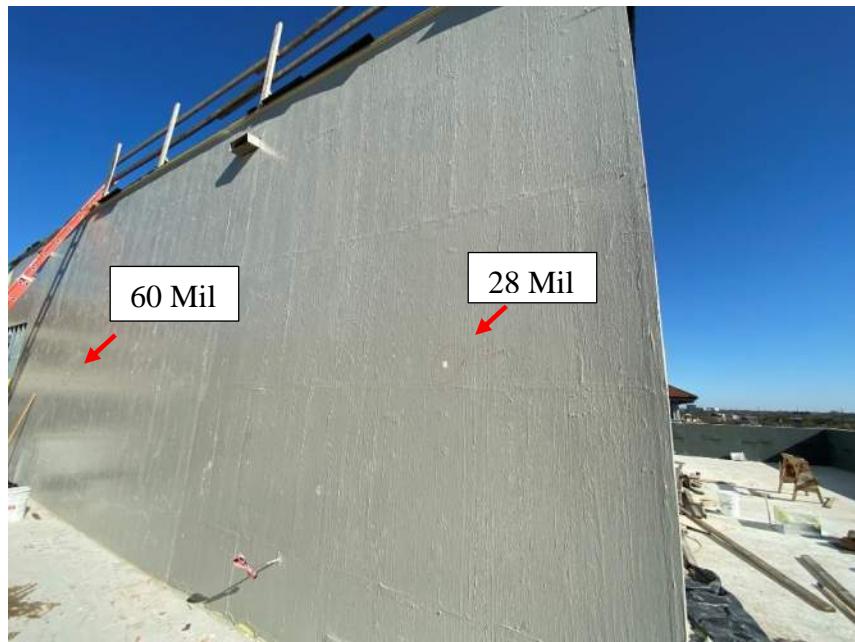
**Photo 3**  
**Example of Low Mil Reading**



**Photo 4**  
**Example of Low Mil Reading**



**Photo 5**  
**Example of Low Mil Reading**



**Photo 6**  
**South Elevation Specimen Locations**



**Photo 7**  
**Example of Low Mil Reading**



**Photo 8**  
**Observation of Base Sheet Membrane Application**



**Photo 9**  
**Example of supper to be Detailed With SAMF**



**Photo 10**  
**Example of supper to be Detailed With SAMF**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 30**  
**Day of Visit: March 24, 2021 (Wednesday)**

**Issued:** March 30, 2021

**Prepared by:** Bryan Hernandez

**In Attendance:**

Bryan Hernandez  
Gilbert Martinez  
Tanner Hawkins

Zero/Six  
SpawGlass  
SpawGlass

**Weather Summary for: 3/24/2021**

Temperature Low/High (°F)	48/72
Rain (inches)	0.00"
Humidity Min/Max %	5/00
Wind Speed (MPH) Avg/Gust	10/0
Events	None

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Distribution:**

Mark Brooks  
Wallace Schoen  
Steve Bruppacher  
Ramon Arteaga  
Taylor Roche

UT  
UT  
BSA  
BSA  
BSA

Tyler Patton  
Tanner Hawkins  
Gilbert Martinez  
Brandon McDermott  
Darryl Castleberry

SpawGlass  
SpawGlass  
SpawGlass  
Zero/Six  
Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

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409-740-0554 (fax)

866-551-0090 (toll free)

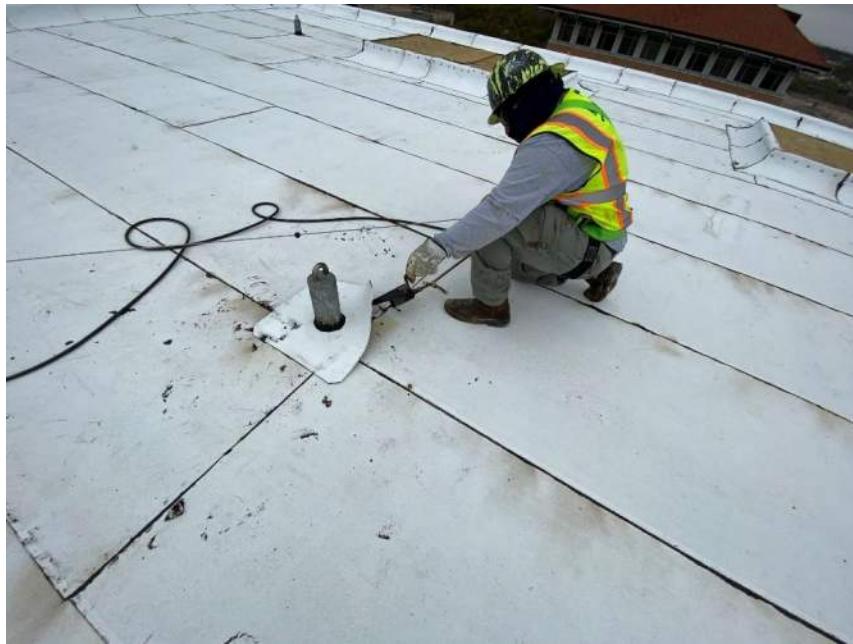
1. At the penthouse roof, ZSC noted the completion of the cap sheet and terminated up and over parapet walls. At the center anchor point, the cap sheet appeared to be wrinkled. ZSC recommended for defective cap sheet to be removed and replaced. Kidd roof was on-site to repair the cap sheet, as per ZSC recommendation, contractor appeared to be conducting work in a workmanlike manner. No additional deficiencies were noted at the time of observation and installation appeared to be sufficient. **See Photos 1-5**
2. At the east elevation level 2 between B-D, ZSC observed Chamberlain applying fluid applied vapor barrier onto DensGlass and applying sealant at the seems of SAMF at around window openings. Ongoing work appeared to performed in a workmanlike manner, no deficiencies were noted at the time of observation and installation appeared to be sufficient. **See Photos 6-9**



**Photo 1**  
**Wrinkled Cap Sheet Membrane**



**Photo 2**  
**Example of Area Cut-Out**



**Photo 3**  
**New 12"x12" Place Around Anchor Point**



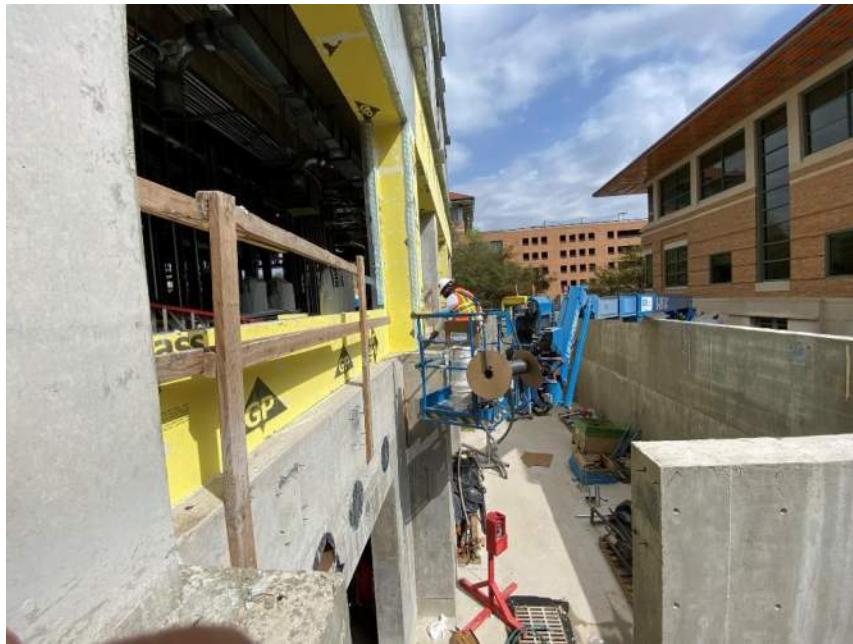
**Photo 4**  
**Example of Cap Sheet Finalized**



**Photo 5**  
**Example of Cap Sheet Finalized**



**Photo 6**  
**Observation of Fluid Vapor Barrier**



**Photo 7**  
**Example of Ongoing Sealant Application**



**Photo 8**  
**Observation of SAMF Seem Sealed with Dymonic 100**



**Photo 9**  
**Observation of SAMF Seem Sealed with Dymonic 100**

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 31**  
**Day of Visit: April 16, 2021 (Friday)**

**Issued:** April 19, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 4/16/2021**

Temperature Low/High (°F) 60/68

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max % 93/100

Wind Speed (MPH) Avg/Gust 6/0

Events None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. ZSC was on-site to observe the installation of metal flashing, SAMF, air barrier and insulation. The Chamberlin team had men on-site installing the membrane flashing at the brick lugs and inside and outside corners where necessary. Air barrier was then applied to the substrate at 60 +/- mils. Metal flashing was also being applied to the window sill openings. Sealant was applied to the opening and overlaps and the metal flashing was then embedded in said sealant. On the south face, SAMF was being installed at the brick lug with sealant applied to leading edges for termination. At the east face, insulation was installed at walls and columns, pressure fit between brick ties. A pin was also added with a clip as extra support to insure the insulation stayed in place. All installations in progress appeared to be in a sufficient manner. **See Photos 01-10**

Galveston, TX 77550

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**Photo 1**  
Sealant Added to Metal Flashing at Overlap



**Photo 2**  
Metal Flashing Embedded in Sealant



**Photo 3**  
Air Barrier Installed at 60 mils



**Photo 4**  
Mil Gauge Showing 60 Mils



**Photo 5**  
Fish Mouth at Top of Vertical SAMF



**Photo 6**  
Fish Mouth Repaired with Sealant



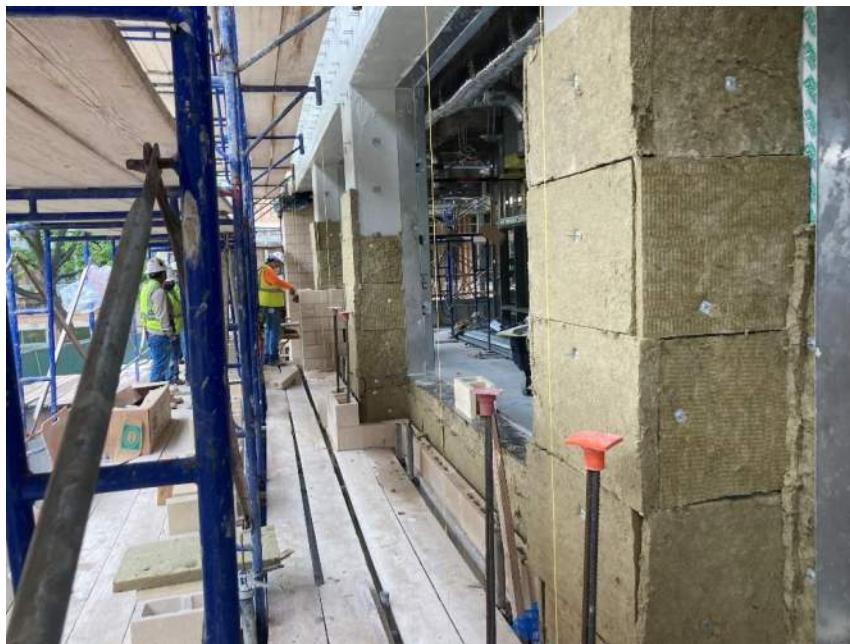
**Photo 7**  
SAMF Installed and Terminated with Sealant



**Photo 8**  
SAMF Installation in Progress



**Photo 9**  
Edges of SAMF Terminated with Sealant



**Photo 10**  
Overview of Insulation Installed

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 32**  
**Day of Visit: April 22, 2021 (Thursday)**

**Issued:** April 27, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 4/22/2021**

Temperature Low/High (°F) 40/65

Rain (inches) 0.00"

Galveston

SpawGlass

Humidity Min/Max %

55/100

Austin

Wind Speed (MPH) Avg/Gust 7/11

Events None

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the roof, ZSC found the parapet and some of the edges of the roofing material were open and not prepared for inclement weather. Upon observation, there were areas of the parapet that had not been flashed or detailed with any materials and were wide open to the elements. It was also observed that some roofing materials were open at the edges and also open to rain in the forecast. It was brought to Kidd Roofing's attention and the edges of roofing materials were detailed with mastic. Chamberlin was not on site but the parapet issues were brought to SG's attention and said parapet was covered with SAMF, in order to prevent water infiltration into the roofing system. **See Photos 01-10**

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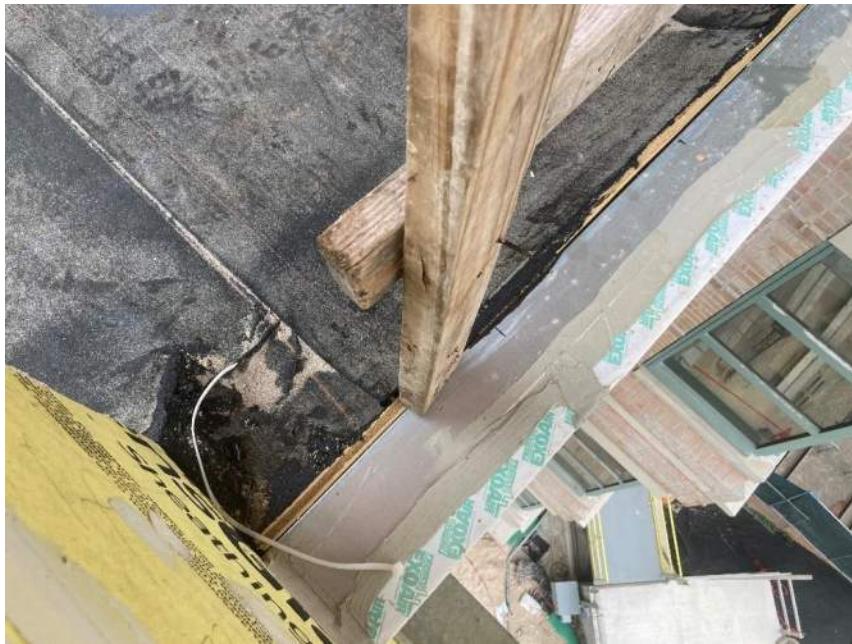
**Photo 1**  
Parapet Open



**Photo 2**  
Parapet Flashing Installed with no Termination Sealant



**Photo 3**  
Parapet Wide Open



**Photo 4**  
Roofing Membrane Not Terminated



**Photo 5**  
Roofing Open at Parapet



**Photo 6**  
Roofing Membrane Detailed



**Photo 7**  
Parapet Flashed Prior to Rain



**Photo 8**  
Overview of Parapet with SAMF



Photo 9

Overview of Parapet with SAMF



Photo 10

Overview of Parapet with SAMF

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 33**  
**Day of Visit: April 27, 2021 (Tuesday)**

**Issued:** April 29, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 4/27/2021**

Temperature Low/High (°F) 40/65

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

55/100

Wind Speed (MPH) Avg/Gust 7/11

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. At the north face of the building, Chamberlin was installing metal flashing, flexible flashing, sealant and air barrier at the loose lintels ahead of the masons. The metal flashing was a 2 piece that was terminated with flexible flashing, term bar and sealant. Installation appeared to be a sufficient manner and ZSC had no issues. **See Photos 01-02**

2. In the same area, there were squares of sheathing removed and replaced for framing reasons. The replaced pieces were detailed at the perimeters and air barrier was added to said patches. Repairs appeared to be in a sufficient manner. **See Photos 03-04**

3. At the north entrance above the canopy, there were areas of sheathing in need of more air barrier. This information was brought to Chamberlin personnel's attention. **See Photos 05-06**

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4. On the east face of the building, a mock-up of metal flashing was installed at the column for the brick lintel. All seams were detailed with sealant, as were the corners and perimeter. Installation appeared to be in a sufficient manner. ***See Photo 07***
5. At the roof penthouse on the east face, there are 2 areas where the sheathing has holes behind the air barrier. The holes were filled with sealant, but the sheathing is too weak in these areas. ZSC recommends cutting the sheathing from stud to stud and replacing damaged areas. These areas will need to also be repaired with sealant at the perimeter of patch and air barrier replaced. ***See Photos 08-09***
6. On the south face of the penthouse, it was observed that there was a hole in the sealant and air barrier. This was brought to Chamberlin personnel's attention and was repaired immediately. Said repair appeared to be in a sufficient manner. ***See Photos 10-11***
7. At the southwest corner of the roof, the low parapet was in need of temping in, prior to a weather event. This was brought to Chamberlin's attention and was taken care of immediately. ***See Photo 12***



**Photo 1**  
Overview of Work in Progress



**Photo 2**  
Metal Flashing Installed at Loose Lintel



**Photo 3**  
Sheetrock Removed and Replaced



**Photo 4**  
Patches Sealed and Detailed after Replacement



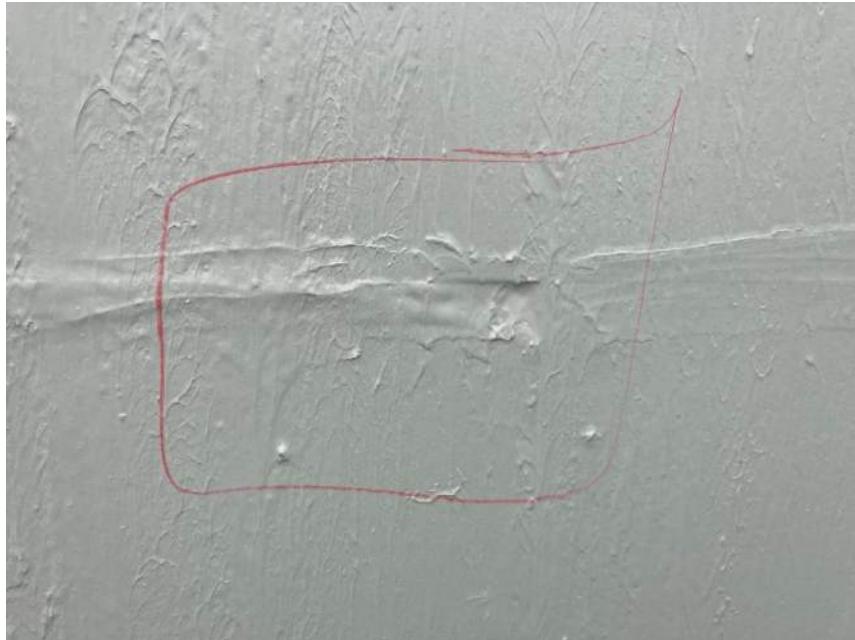
**Photo 5**  
Beam Detailed at Perimeter but Sheathing Lacking Air Barrier



**Photo 6**  
Sheathing Needing Air Barrier



**Photo 7**  
Flashing Mock-Up at Brick Shelf at Columns



**Photo 8**  
Hole in Sheathing Behind Air Barrier



**Photo 9**  
Hole in Sheathing Behind Air Barrier



**Photo 10**  
Gap in Sealant



**Photo 11**  
Gap in Sealant Repaired



**Photo 12**  
Sealing Areas at Low Parapet to Prevent Water Infiltration

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 34**  
**Day of Visit: May 4, 2021 (Tuesday)**

**Issued:** May 6, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 5/4/2021**

Temperature Low/High (°F) 66/77

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

52/97

Wind Speed (MPH) Avg/Gust 9/15

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the north and west faces of the building, ZSC conducted nozzle testing on randomly picked windows when on-site. After spraying water at 1 minute per foot at 30 psi at the specimens, it was concluded that all but specimen #2 were passes. Once specimen #2 started having water applied to it, it took about a minute and a half for water intrusion to become visible. The moisture from this test was at the wood blocking below the sill of said specimen. Further investigation will be conducted from the exterior, in order to determine the root cause of this failure. **See Photos 01-06**

Galveston, TX 77550

- At the north face, while ZSC was setting up for nozzle testing, it was noticed that in several areas there are screw holes in air barrier, flexible flashing with fish mouths, broken sheathing and areas of missing sealant. At several areas the masons are missing the studs and pulling the screws out, while leaving the

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penetrations open. ZSC recommends either giving the masons sealant for them to repair their mistakes or Chamberlin following the masons as they are installing brick ties. These mistakes appear to be happening far too often, only to be left open in a 20' section on the 3<sup>rd</sup> level of the scaffolding. ZSC also recommends stopping the masons and removing insulation, in order to insure all screw holes have been sealed. Chamberlin personnel need to inspect their flexible flashing, as there are fish mouths and unadhered areas that are areas of concern. There is missing sealant at transitions from sheathing to the lintel and one area was seen where the sheathing was broke and in need of repair. This sheathing repair needs to be repaired from stud to stud and re-waterproofed.

***See Photos 07-14***

3. At the west face of the building, on specimen #5 from the interior, it was noticed that the joint was bigger than the backer rod on hand. Glass House took 2 pieces of backer rod and twisted it together. This is an unacceptable sealant joint profile and will NOT allow for proper expansion or flexibility. At the opposite side of the same window, it was noticed that the joint profile is too small and no backer rod was used at the top 2' of the joint. A cant profile was installed at the top of this joint and transitioned into the correct profile. It appears that this window was set at an angle or the opening is not square, which is causing these joint profiles to differ so substantially. ZSC recommends adjusting this window in order to be installed square, allowing for the correct joint profiles.

***See Photos 15-16***



**Photo 1**  
North Elevation Windows Tested



**Photo 2**  
West Elevation Windows Tested



**Photo 3**  
Overview of Area Nozzle Testing



**Photo 4**  
Nozzle Testing in Progress



**Photo 5**  
Nozzle Testing in Progress



**Photo 6**  
Water Intrusion Below Window System (Specimen #2 Fail)



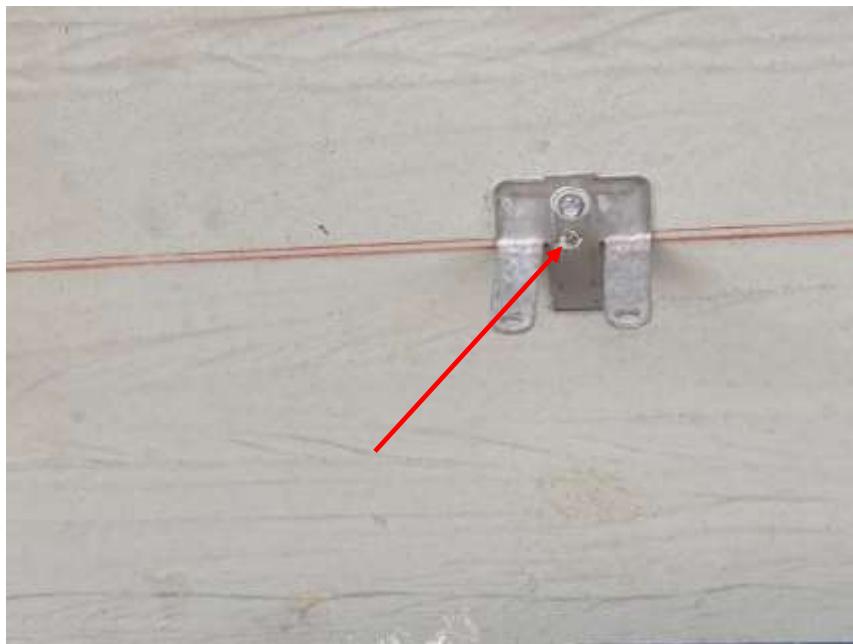
**Photo 7**  
Flexible Flashing Not Adhered



**Photo 8**  
Flexible Flashing Not Adhered



**Photo 9**  
Screw Holes in Air Barrier



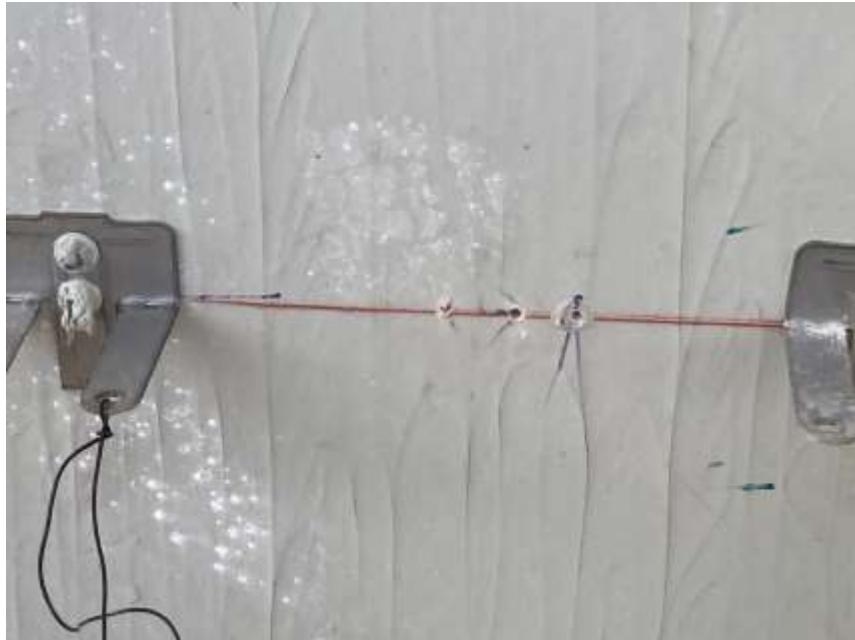
**Photo 10**  
Replace with Correct Anchor



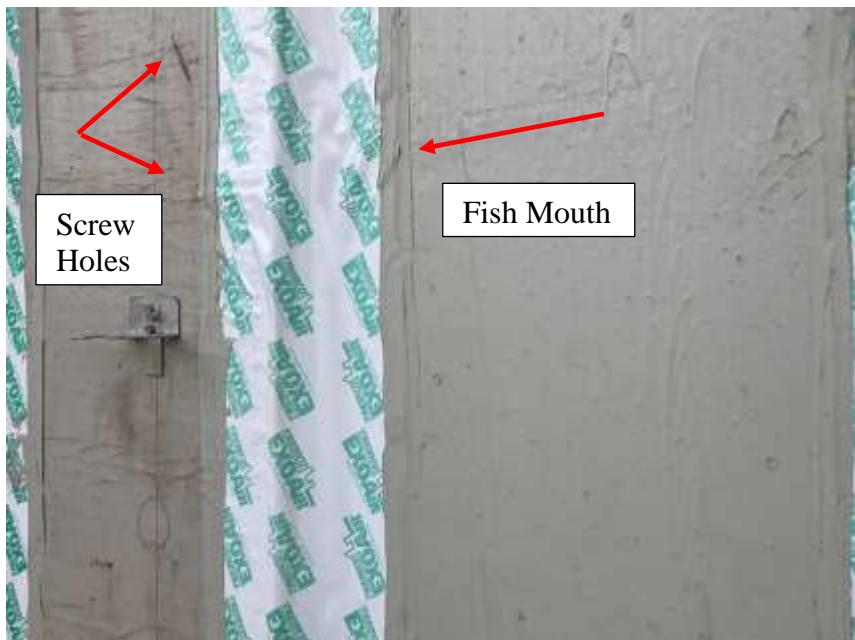
**Photo 11**  
Sheathing is Broke and in Need of Replacing



**Photo 12**  
Sealant Missing



**Photo 13**  
Screw Holes in Air Barrier



**Photo 14**  
Screw Holes in Air Barrier and Fish Mouth on Flexible Flashing



**Photo 15**  
Backer Rod Twisted on Exterior Sealant Joint



**Photo 16**  
Window is Set with a 1/16" Joint

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 35**  
**Day of Visit: May 7, 2021 (Friday)**

**Issued:** May 11, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 5/7/2021**

Temperature Low/High (°F) 54/84

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

43/100

Wind Speed (MPH) Avg/Gust 7/11

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the north elevation window failure, it was observed from the exterior of the window, that the gaskets were not properly installed. These gaskets need to be reworked in order to ensure a proper seal. After further investigation of the water infiltration, it was noted that there was nothing visible to the naked eye that would lead ZSC to the exact cause of said water infiltration. **See Photos 01-02**

Galveston, TX 77550

- At the north and east elevations, Chamberlin continues to install insulation, flexible flashing and metal flashing. It was noted that there was an area of concern that was brought to the attention of the Chamberlin team. The flexible flashing had a fish mouth at the northeast corner on the column, which was repaired immediately.

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3. At the north and south elevations of the building, Rudd & Adams is installing their brick ties onto expansion/control joints. These brick ties will need to be removed and placed on either side of said joint or one on each side of the joint. The placement of these ties cannot be installed directly onto the joint, as movement will tear the flexible flashing allowing water intrusion. ***See Photos 03-09***
4. At the roof, TX Roofing continues installing the base sheet and detailing curbs to ensure a water tight system. Installation appears to be in a sufficient manner and ZSC had no issues at the time of visit. ***See Photos 10-12***



**Photo 1**  
Window Gasket not Properly Installed



**Photo 2**  
Window Gasket not properly Installed



**Photo 3**  
Insulation Installed at the North Elevation



**Photo 4**  
Brick Tie Installed on Top of Expansion/Control Joint North



**Photo 5**  
Brick Ties Installed on Top of Expansion/Control Joints North



**Photo 6**

Overview of Metal and Flexible Flashing Installed at the Lintel



**Photo 7**

Flexible Flashing with Fish Mouth



**Photo 8**  
Brick Tie Installed on Top of Expansion/Control Joint South



**Photo 9**  
Flexible Flashing Installed at Door Perimeter



**Photo 10**  
Overview of Metal Flashings at Roof Perimeter



**Photo 11**  
Roof Curb Detailed



**Photo 12**  
Overview of Roof Curb Being Detailed

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 36**  
**Day of Visit: May 11, 2021 (Tuesday)**

**Issued:** May 13, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 5/11/2021**

Temperature Low/High (°F) 61/78

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

76/100

Wind Speed (MPH) Avg/Gust 13/18

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the north, south and west elevations, there are vertical control joints where two panels abut. Backer rod was placed on the exterior of the joint, then wrapped with flexible flashing, creating a bellow for movement. The masons followed installing their brick ties, which in turn, lap onto the protruded part of the joint. It is ZSC's recommendation to remove the brick ties, cut the backer rod out and install a control joint. Install backer rod into the joint, caulk the joint flush with the sheathing and install the flexible flashing over the joint.

***See Photos 01-02***

Galveston, TX 77550

- At the roof, Texas Roofing was installing the cap sheet on the east side of the building. The cap sheet was rolled out while being torched for the proper adhesion. While rolling out the cap sheet, there was visible bleed out of  $\frac{1}{4}$ "-1".

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Installation appeared to be in a sufficient manner and ZSC had no issues at time of installation. **See Photos 03-06**

3. At the north and south faces of the building, R&A was installing brick ties. The ties were anchored with sealant at 16" OC. The anchors were dipped in sealant prior to installing the ties. Installation appeared to be in a sufficient manner. **See Photos 07-08**
4. At the north face of the building, there are several concerns in need of addressing.
  - a. Sheathing needing repair. Remove old broken sheathing from stud to stud and install new. Repair will then need to be re-waterproofed. **Photo 09**
  - b. Inside corners should be detailed with sealant, prior to flexible flashing. **Photo 10**
  - c. Plumbing pipe penetrating the building has clamps flush with the sheathing. This penetration will not be able to be detailed properly as it is now. The clamps will need to be moved or run a solid pipe through the wall, in order to detail properly. **Photo 11**
  - d. At the window openings the flexible flashing will need to be cut around the knockouts where there is loose flashing. This will prevent the flashing from loosing adhesion in other areas. **Photo 12**
  - e. Areas are marked where the flexible flashing is fish mouthing that are in need of rolling and adding sealant. **Photos 13 & 17**
  - f. At the top of a panel on the 3<sup>rd</sup> floor, the panel leans away from the building approximately 3". Upon inspection, it was found that the flexible flashing was not adhered to anything between the concrete and said panel. The sealant was installed underneath however, the flexible flashing was spanning the gap. Once the flashing was cut open for further inspection, it was revealed that the vertical part of the panel did not have joint sealant. The flexible flashing will need to be removed and have joint sealant added to the vertical surface. **Photos 14-16**
  - g. At the north face above the entry door, it was noticed that there is flexible conduit installed and detailed around. The flexible conduit will need to be removed and replaced with a solid conduit, in order to properly detail. **Photo 18**



**Photo 1**  
Brick Tie Placement on Control Joint



**Photo 2**  
Control Joint w/ Brick Ties Anchored Directly on Top



**Photo 3**  
Cap Sheet Installation in Progress



**Photo 4**  
Cap Sheet Torching Installation



**Photo 5**  
Bleed Out on Cap Sheet



**Photo 6**  
Overview of Roofing Cap Sheet Installation



**Photo 7**  
Brick Tie Installation



**Photo 8**  
Sealant on Anchor Prior to Placement



**Photo 9**  
Sheathing Needing Repair



**Photo 10**  
Flexible Flashing Installation



**Photo 11**  
Penetration Will NOT be Able to be Detailed Correctly



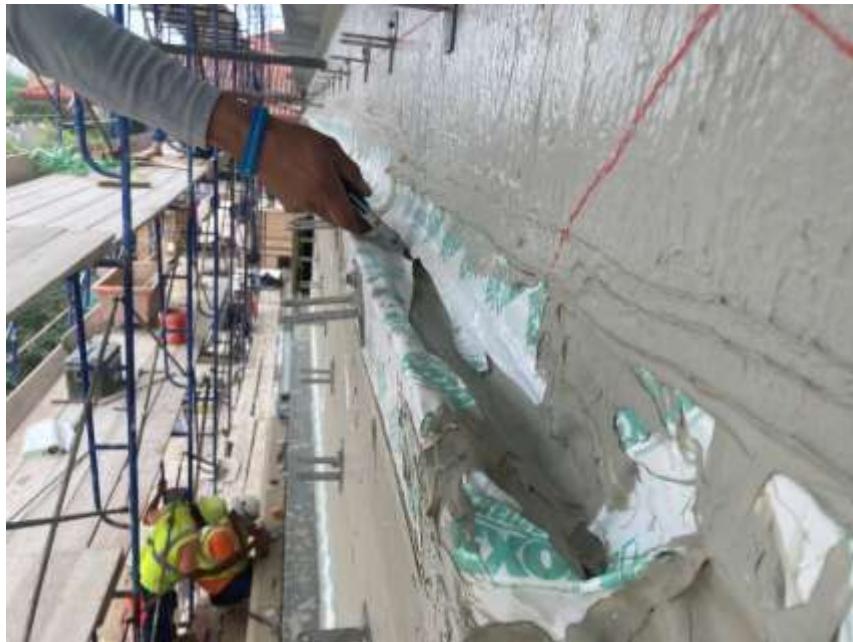
**Photo 12**  
Flexible Flashing Needs to be Cut at Knockouts



**Photo 13**  
Fish Mouth at Edge of Flexible Flashing



**Photo 14**  
Corner of Panel Protrudes out from the Building



**Photo 15**  
Flexible Flashing Cut to Expose Loose Flex Flashing



**Photo 16**  
Flexible Flashing Cut to Expose Missing Vertical Sealant



**Photo 17**  
Fish Mouth in Flex Flashing and Sealant



**Photo 18**  
Flexible Conduit Installed

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 37**  
**Day of Visit: May 14, 2021 (Friday)**

**Issued:** May 18, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 5/14/2021**

Temperature Low/High (°F) 54/80

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

52/100

Wind Speed (MPH) Avg/Gust 6/12

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the roof, Kidd Roofing (mistakenly referred to as Texas Roofing on the 2 previous reports) was on-site installing a base sheet at the curbs. The sheet was cut to fit and overlap the vertical portion of the curb. Kidd Roofing personnel torched the base sheet as it was rolled out. Installation appeared to be in a sufficient manner and ZSC had no issues at the time of installation.

***See Photos 01-04***

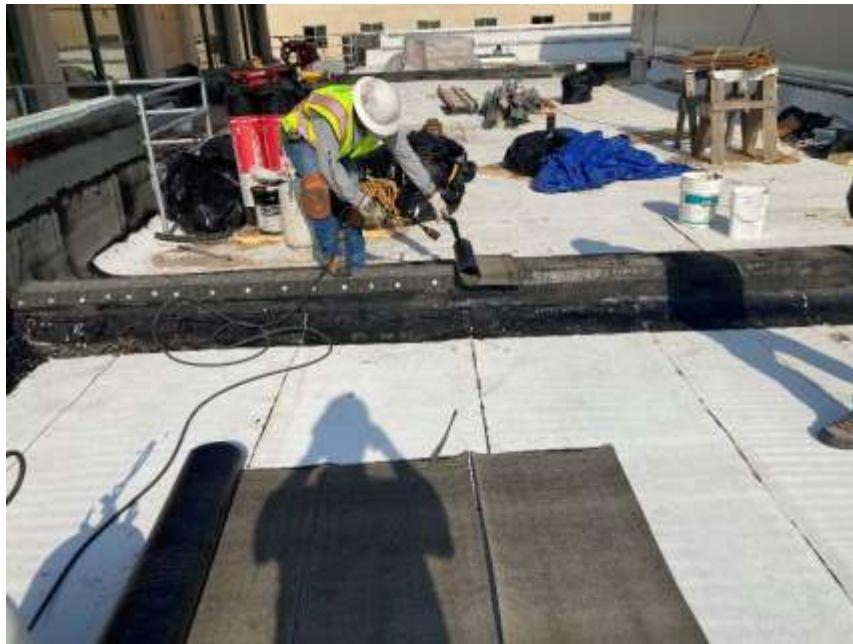
409-740-0090 (voice)

409-740-0554 (fax)

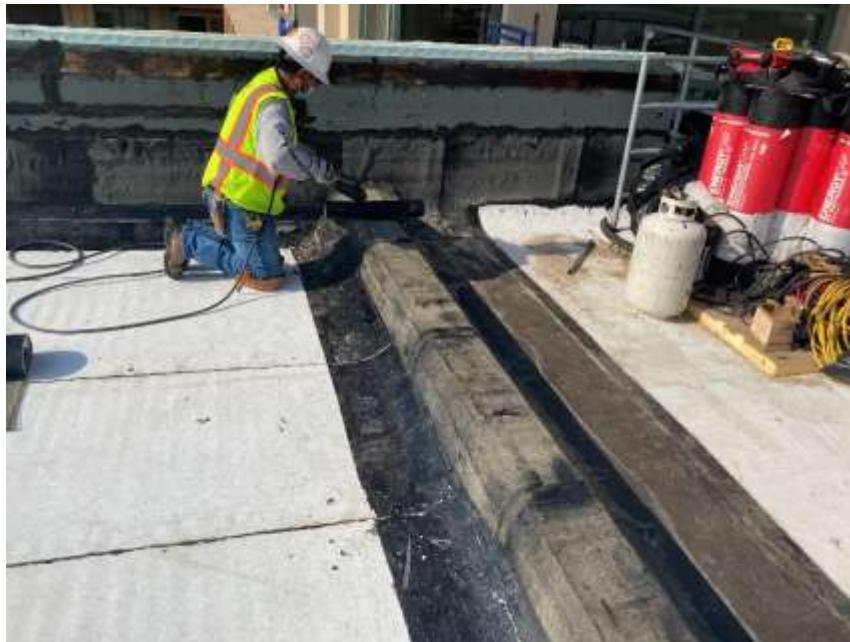
866-551-0090 (toll free)



**Photo 1**  
Overview of Work in Progress



**Photo 2**  
Torching Base Sheet at Curb



**Photo 3**  
Base Sheet Installed at Curb



**Photo 4**  
Base Sheet Detailed from Curb to Parapet

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 38**  
**Day of Visit: May 18, 2021 (Tuesday)**

**Issued:** May 20, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 5/18/2021**

Temperature Low/High (°F) 65/76

Rain (inches) 0.50"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

74/100

Wind Speed (MPH) Avg/Gust 14/18

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the north face, Chamberlin was installing metal flashing at window openings. The flashing was cut to fit, with it being anchored to the CFMF. Metal flashing and overlaps were embedded in sealant. Flexible flashing was then used to terminate the metal flashing and sealant used at the edges. A hand roller was also used for back rolling the flexible flashing. Installation appeared to be in a sufficient manner and ZSC had no issues at the time of installation. **See Photos 01-07**

Galveston, TX 77550

- At the north, south and east faces of the building, Chamberlin has started the removal of flashing and backer rod at joints where panels abut, creating a joint. Backer rod was then inserted into the joint and said joint was sealed with sealant. Flexible flashing was reinstalled over the joint. Installation appeared to be in a sufficient manner. **See Photo 08**

409-740-0090 (voice)

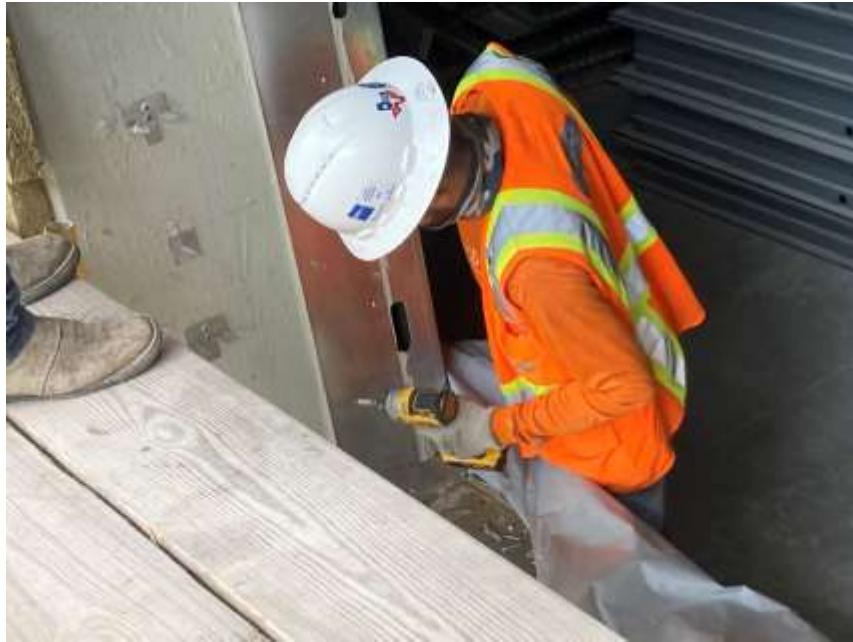
409-740-0554 (fax)

866-551-0090 (toll free)

3. At the east face of the building, Rudd & Adams was installing brick, stone and wall ties. The cavities were free and clear of excess mortar and wall ties were anchored with sealant on the tips of anchors, creating a sealed penetration. Installations appeared to be in a sufficient manner. ***See Photos 09-11***
4. Upon inspection of window perimeter flashings, ZSC noticed in several locations, there is ponding water at the sills. ZSC recommends checking ALL sill flashing and take necessary steps to correct the metal flashing insuring there is slope at each sill for proper drainage. ***See Photos 12-13***
5. Upon inspection, it was noticed that under lintels at the columns, there is a gap in the sealant from wall to column. ZSC recommends checking All column lintels in order to insure there is a continuous bead of sealant throughout. This was brought to the attention of Chamberlin personnel, and ZSC will follow up. ***See Photos 14-15***
6. At the north face of the building at the 4<sup>th</sup> level floor line, ZSC noticed broken sheathing, just above the lintel. ZSC recommends removing said sheathing and replacing with new, insuring the replacement is from outer stud to outer stud. ***See Photo 16***



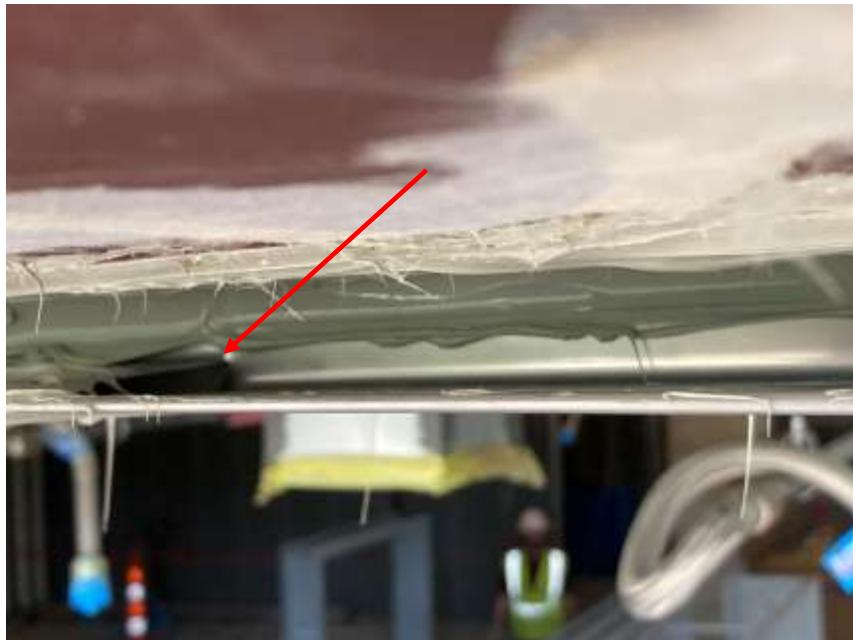
**Photo 1**  
Overview of Work in Progress



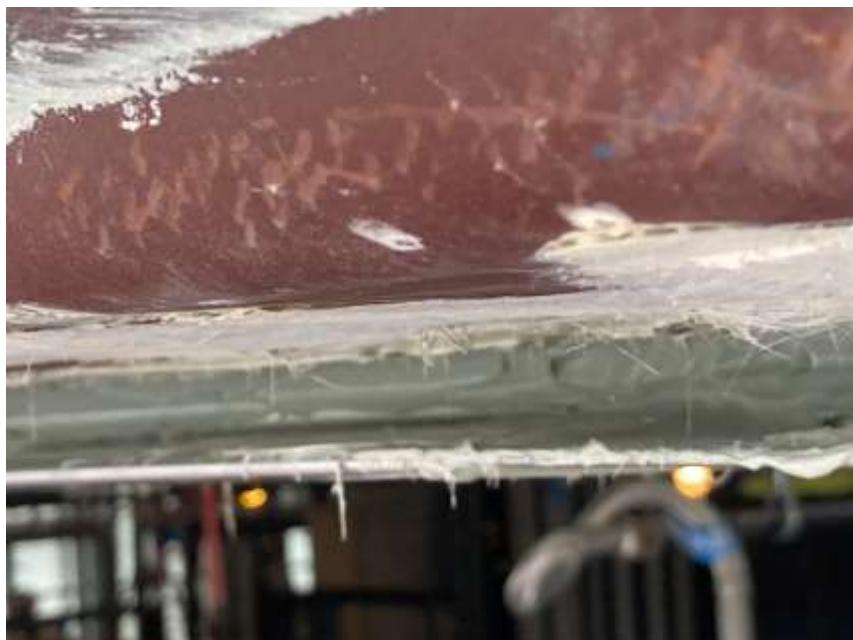
**Photo 2**  
Metal Flashing Installation



**Photo 3**  
Sealant Installed at Corner of Metal Flashing



**Photo 4**  
Metal Flashing Overlap with Gap



**Photo 5**  
Gap at Overlap Sealed



**Photo 06**  
Flexible Flashing Installed at Edge of Metal Flashing



**Photo 07**  
Flexible Flashing Installed and Back Rolled



**Photo 08**  
Control Joint Reinstalled



**Photo 09**  
Brick Cavity Clear of Excess Materials



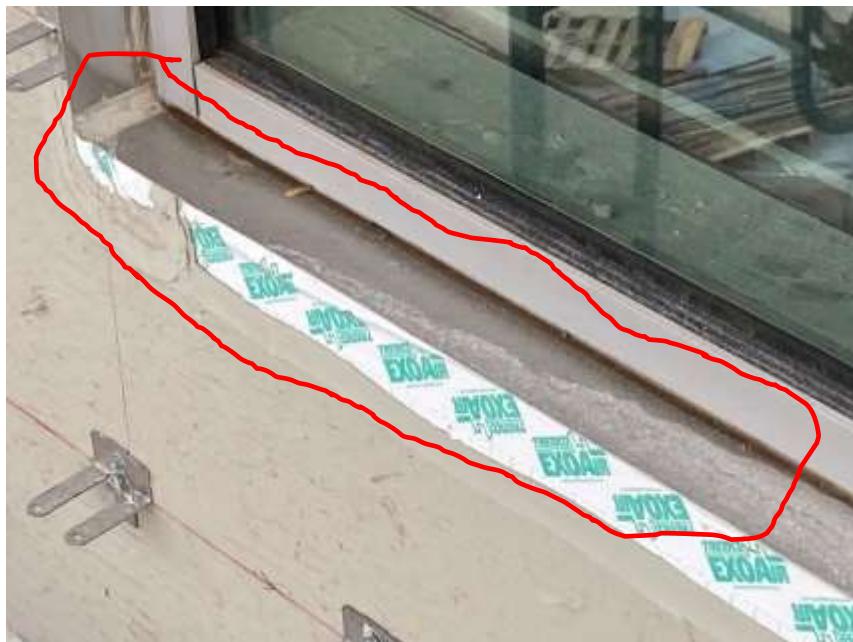
**Photo 10**  
Anchors Installed with Sealant



**Photo 11**  
Anchors Installed with Sealant



**Photo 12**  
Metal Sill Flashing Holding Water



**Photo 13**  
Sill Flashing Holding Water



**Photo 14**  
Gap in Sealant Under Lintel



**Photo 15**  
Gaps in Sealant Under Lintels



**Photo 16**  
Sheathing Broken Above Lintel

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 39**  
**Day of Visit: May 21, 2021 (Friday)**

**Issued:** May 25, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 5/21/2021**

Temperature Low/High (°F) 63/84

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max % 56/100

Wind Speed (MPH) Avg/Gust 5/0

Events None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. At the south and east face of the building, R&A was in the process of installing brick. The mortar net was installed in the cavity and excess mortar was held to a minimum. Installation appeared to be in a sufficient manner, at the time of observation. **See Photos 01-03**

2. At the east face, insulation was being installed between the brick ties, in order to stay in front of the masons. From the previous report, Chamberlin installed sealant at the bottoms of lintels and repaired the control joints with sealant and flexible flashing. Installation and repairs appeared to be in a sufficient manner. **See Photos 04-06**

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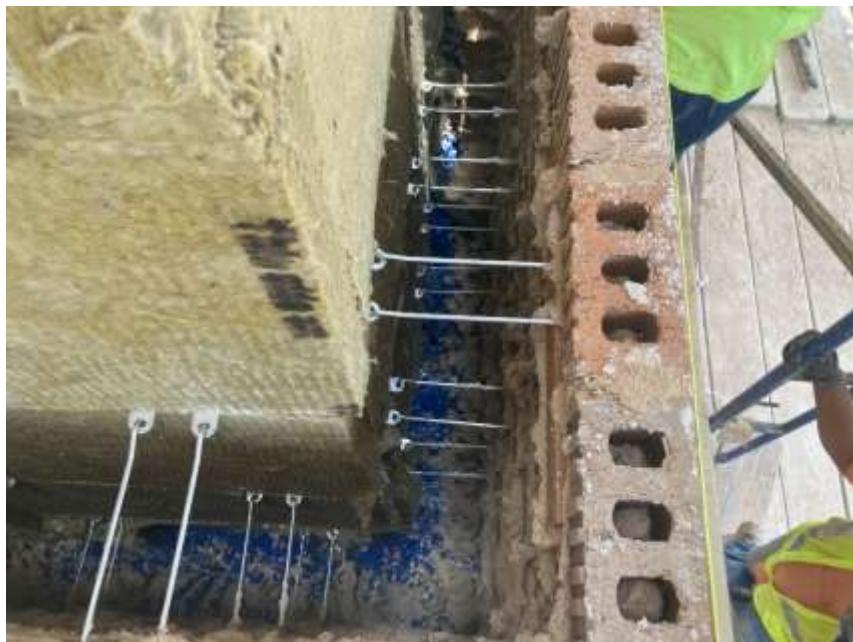
409-740-0554 (fax)

866-551-0090 (toll free)



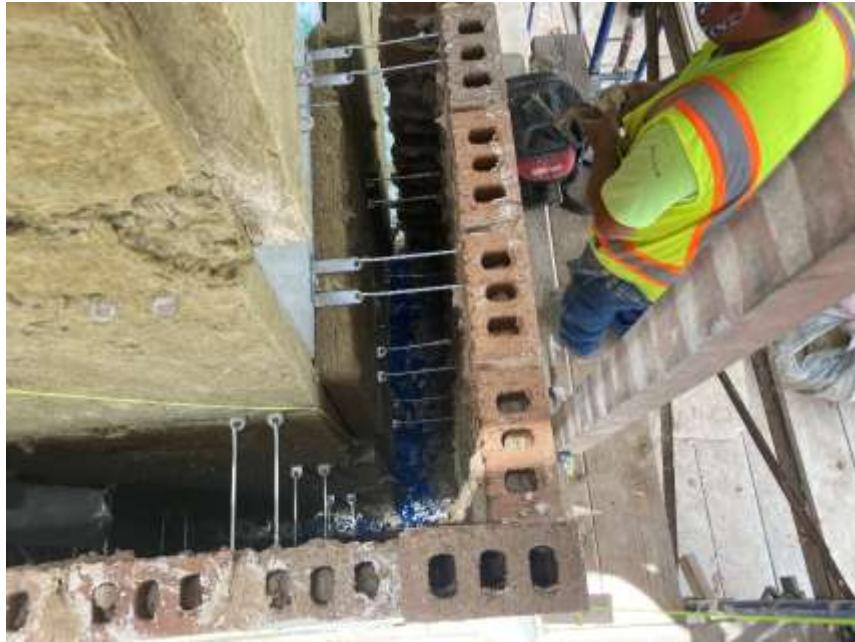
**Photo 1**

Overview of Brick Installation with Mortar Net Installed



**Photo 2**

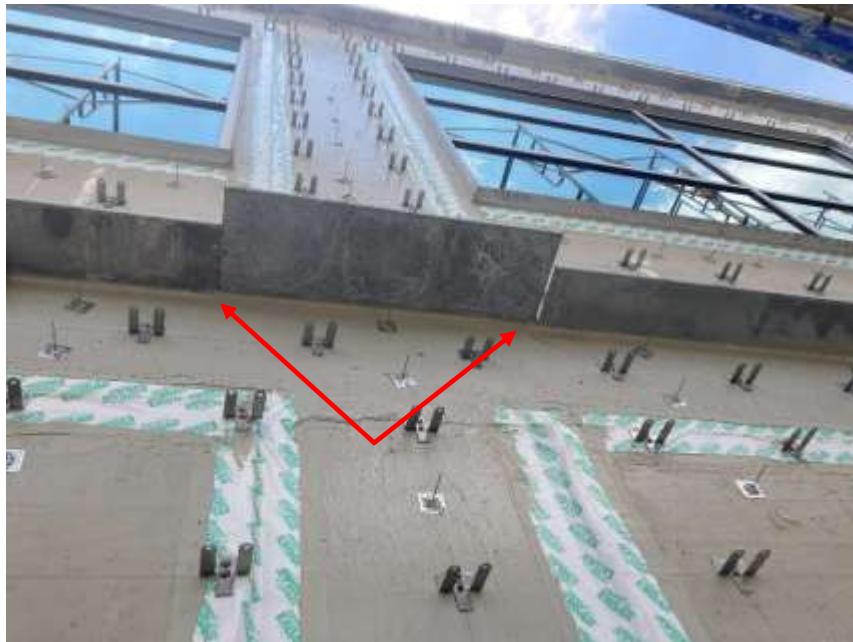
Brick Cavity with Little Excess Materials and Mortar Net Below



**Photo 3**  
Overview of Brick Cavity



**Photo 4**  
Overview of Insulation Installation



**Photo 05**  
Under Side of Lintel Sealed



**Photo 06**  
Control Joint Repaired

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 40**  
**Day of Visit: June 4, 2021 (Friday)**

**Issued:** June 4, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 6/4/2021**

Temperature Low/High (°F) 67/84

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max % 65/100

Wind Speed (MPH) Avg/Gust 5/0

Events None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the roof, Kidd Roofing was in the process of installing metal panels at the penthouse. Upon observation, it was found that shims were being installed on the z-girts with sealant, prior to installation on the substrate. When the z-girts were installed, a bed of sealant was added to the other side and they were then mounted to the wall at 36" on center. The metal panels were then affixed to the z-girts. At the building tie-in from existing to new, WIP 300 had been installed over blocking and turned down in to the cavity. Installation appeared to be in a sufficient manner. *See Photos 01-07*

Galveston, TX 77550

- At the SW corner of the building, flexible flashing was being installed at the metal jamb flashing. A hand roller was used to back roll the membrane. Sealant was then added to the perimeter of the flexible flashing. Installation appeared to be in a sufficient manner. *See Photos 08-09*

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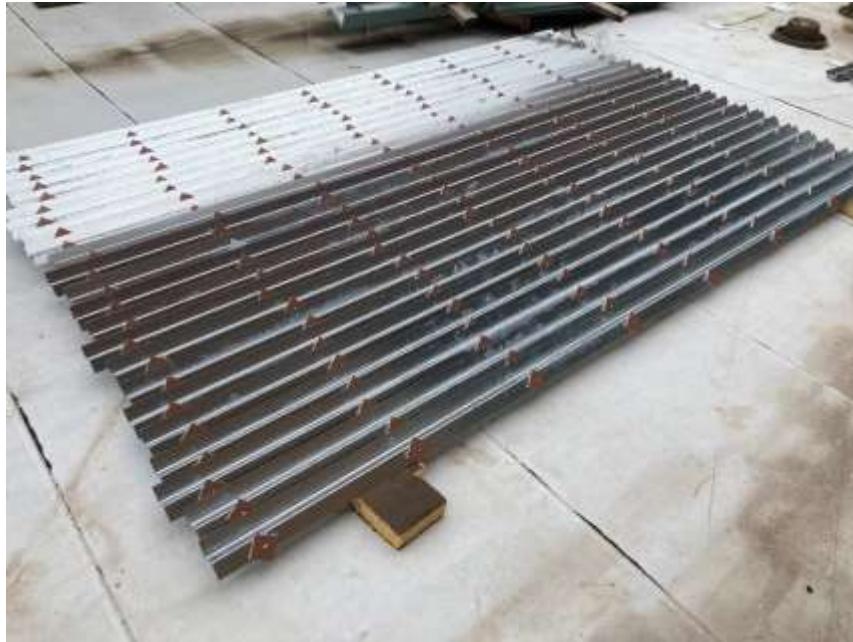
409-740-0554 (fax)

866-551-0090 (toll free)

3. At the south side of the building on the eastern side, Chamberlin was installing metal flashing at a loose lintel. Sealant was added and the metal flashing was embedded. The 2-piece flashing was then anchored to the lintel and the substrate. Flexible flashing was then added to the top of the metal flashing that was affixed to the wall. When asked if they had a roller for back rolling the membrane, Chamberlin personnel said they didn't have one. **See Photos 10-14**
4. At the north side of the building, Chamberlin was installing insulation, prior to brick placement. Some areas had small gaps, which was brought to their attention. Chamberlin personnel said they would get this remedied, however, the masons were working below and would have been a safety concern at the time. **See Photos 15-16**
5. At the south, east and north faces of the building R&A continued with their brick and stone installation. The cavities were kept clear of excess materials and mortar nets were used. Installation appeared to be in a sufficient manner. **See Photos 17-20**



**Photo 1**  
Overview of Penthouse Metal Panel Installation



**Photo 2**

Overview of Z-Girts with Preinstallation of Shims Set in Sealant



**Photo 3**

Shims Embedded in Sealant



**Photo 4**  
Overview of Z-Girt Installation



**Photo 05**  
Overview of Metal Panel Installation



**Photo 06**  
Blocking w/ WIP 300 Installation at Building Tie-In



**Photo 07**  
Overview of WIP 300 Tie-In



**Photo 08**  
Example of Flexible Flashing Installation



**Photo 09**  
Example of Roller Used for Back Rolling Membrane



**Photo 10**

Example of Sealant Added to the Loose Lintel Prior to Metal Flashing



**Photo 11**

Metal Flashing Embedded in Sealant



**Photo 12**  
Sealant added to Loose Lintel and Metal Flashing prior to Placement



**Photo 13**  
Metal Flashing Anchored to Substrate

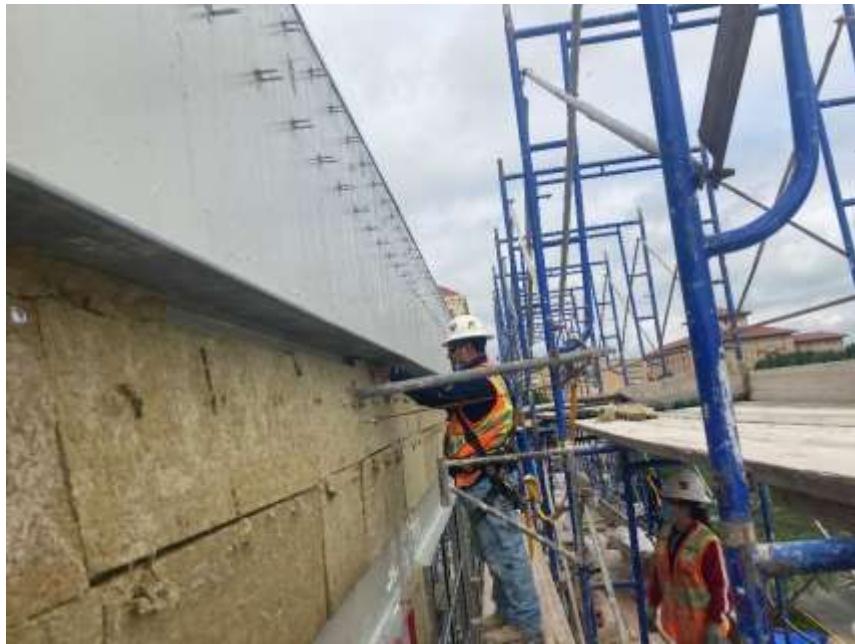


**Photo 14**

Flexible Flashing w/ Term. Bar Installed and Terminating w/ Sealant



**Photo 15**  
Rockwool Installation



**Photo 16**  
Overview of Installation of Insulation



**Photo 17**  
Example of Brick Installation in Progress



**Photo 18**  
Brick Cavity Clear of Excess Materials



**Photo 19**  
Example of Mortar Net Installation



**Photo 20**  
Overview of Work in Progress

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 41**  
**Day of Visit: June 11, 2021 (Friday)**

**Issued:** June 15, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 6/11/2021**

Temperature Low/High (°F) 76/90

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max % 54/94

Wind Speed (MPH) Avg/Gust 9/13

Events None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the east side of the building, R&A continues to install the brick and stone façade. Bricks that were installed just below the lintel were filled with mortar, prior to installation. Installation appeared to be in a sufficient manner.  
**See Photos 01-04**

Galveston, TX 77550

- At the penthouse on the roof, it was observed that installation of z-girts and metal panels appeared to be installed in a sufficient manner. **See Photos 05-06**

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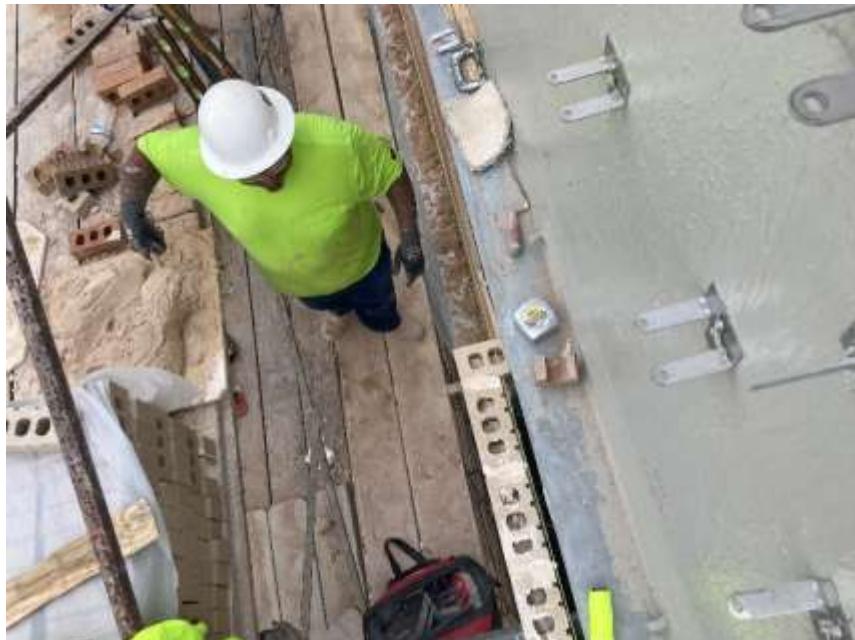
- At the north face of the building, Chamberlin continued installing metal flashing at the loose lintels. Sealant was added to the metal flashing prior to installation for bedding in sealant. Anchors were installed and also detailed with sealant. Flexible flashing was then installed over the metal flashing and terminated with a termination bar and sealant. Installation appeared to be in a sufficient manner.  
**See Photos 07-12**

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866-551-0090 (toll free)



**Photo 1**  
Overview of Site Progress



**Photo 2**  
Overview of Masonry Installation



**Photo 3**  
Overview of Masonry Installation



**Photo 4**  
Example of Brick Filled with Mortar Prior to Installation Under Lintel



**Photo 05**  
Overview of Metal Panel Installation



**Photo 06**  
Overview of Z-Girt Installation



**Photo 07**  
Overview of Metal Flashing Installation



**Photo 08**  
Sealant Added to Metal Flashing Prior to Installation



**Photo 09**  
Example of Sealant Added for Overlap



**Photo 10**  
Flexible Flashing Detailed with Sealant



**Photo 11**  
Termination Bar and Anchors Terminated with Sealant



**Photo 12**  
Sealant Toolled into Place

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.



**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 42**  
**Day of Visit: June 15, 2021 (Tuesday)**

**Issued:** June 17, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 6/15/2021**

Temperature Low/High (°F) 71/95

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

41/96

Wind Speed (MPH) Avg/Gust 7/11

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the west face of the building, Chamberlin was observed removing the bellows joint that had been installed. Once removed, titan foam was installed into the joint and was then sealed with Dymonic 100. Flexible flashing was then applied over said joint and detailed at the perimeters with sealant. Installation appeared to be in a sufficient manner. **See Photos 01-05**

Galveston, TX 77550

- At the east elevation on the 5<sup>th</sup> level, R&A was observed installing cast stone at the relief angle. In Addition, ZSC observed a brick pimple had been installed through the under side of the brick tie. As long as pintles are engaged half way, it doesn't affect the orientation. Installation appeared to be in a sufficient manner. **See Photos 06-11**
- At the southeast elevation on the 5<sup>th</sup> level, minor deficiencies were noted along the south wall. Observations made in this area were, in multiple areas the

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409-740-0554 (fax)

866-551-0090 (toll free)

DensGlass was observed being exposed and will need sealant or air barrier applied. Also, at the top of the wall, brick ties were missing anchors. These items will need to be corrected, prior to masonry installation. **See Photos 13-16**

4. At the penthouse on the east elevation, Kidd Roofing personnel were observed installing z-girts. Shims had been preinstalled with sealant to the z-girt with sealant then added to said shims and all were embedded at time of installation. Upon further observation, ZSC noticed abandoned fastener holes with no sealant and informed SpawGlass of deficiencies. **See Photos 17-20**



**Photo 1**

Construction Personal Removing/Replacing Backer-Rod and Sealant at Control Joint



**Photo 2**  
Backer-Rod Installed at the Control Joint



**Photo 3**  
Sealant Applied at Control Joint



**Photo 4**  
Sealant Applied at Control Joint



**Photo 05**  
Sealant Applied at Control Joint



**Photo 06**  
Masons Installing Cast Stone at East Elevation



**Photo 07**  
Brick Tie is Installed Up Side Down



**Photo 08**  
Brick Tie is Installed Up Side Down



**Photo 09**  
Overview of Cast Stone Installation Angle



**Photo 10**  
Example of Cast Stone Installation



**Photo 11**  
Southeast Corner View of Masonry Pintle Inside Wall Cavity



**Photo 12**  
Overview of Southeast Corner at 5<sup>th</sup> Level



**Photo 13**  
Pin Hole Observed



**Photo 14**  
DensGlass Exposed Due to the Shadowing of Air/Vapor Barrier



**Photo 15**  
Missing Fastener at the Brick Tie



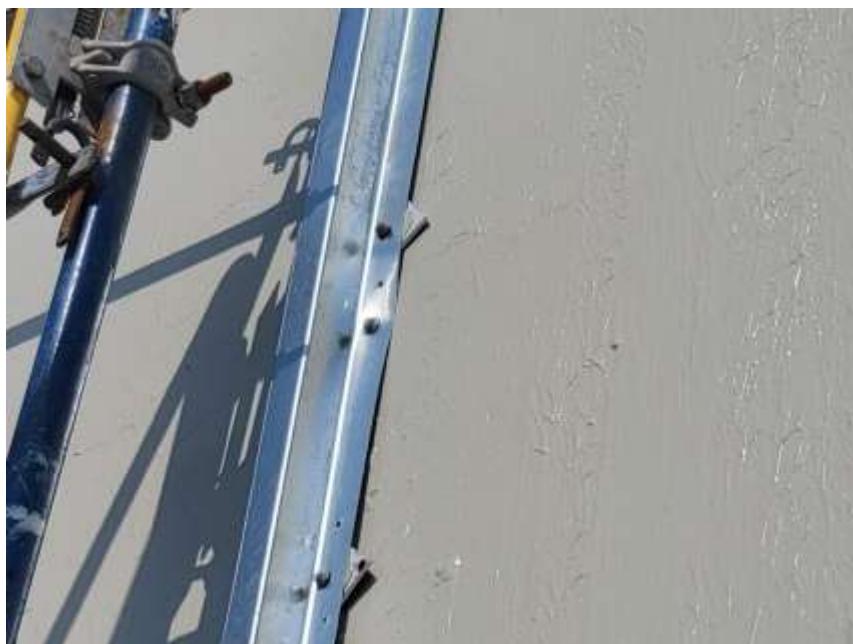
**Photo 16**  
Missing Fastener at the Brick Tie



**Photo 17**  
Overview of the East Elevation of the Penthouse



**Photo 18**  
Missing Sealant and Abandoned Fasteners Holes



**Photo 19**  
Missing Sealant and Abandoned Fasteners Holes



**Photo 20**

Construction Personal Pre-Installing Shims Embedded with Sealant



**Photo 20**

Construction Personal Pre-Installing Shims Embedded with Sealant



**Photo 20**  
Construction Personal Pre-Installing Shims Embedded with Sealant

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 43**  
**Day of Visit: June 18, 2021 (Friday)**

**Issued:** June 22, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 6/18/2021**

Temperature Low/High (°F) 70/91

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

43/93

Wind Speed (MPH) Avg/Gust 6/00

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

1. At the south face of the building, R&A completed the brick installation at the top of the wall. A bed of mortar was installed on top of the brick and allowed to cure. A metal flashing will be installed, prior to the cap stone and stripped in. All will have a positive slope to the roof. Installation taking place, appeared to be in a sufficient manner. **See Photo 01**
2. At the north face of the building, R&A continues to install brick at the top of wall. The wall cavity was free of excess debris and mortar, and insulation had been installed prior. Installation appeared to be in a sufficient manner. **See Photos 02-03**
3. At the Penthouse on the roof, metal panels had been installed. Installation appeared to be in a sufficient manner. **See Photos 04-05**



**Photo 01**  
Overview of Bed of Mortar Laid at Top of Brick



**Photo 02**  
Example of Brick Installation



**Photo 03**  
Example of Mortar Bed Laid Prior to Brick Installation



**Photo 04**  
Overview of Metal Panel Installation



**Photo 05**  
View of Metal Panels Installed

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 44**  
**Day of Visit: June 24, 2021 (Thursday)**

**Issued:** June 29, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 6/24/2021**

Temperature Low/High (°F) 75/94

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

51/96

Wind Speed (MPH) Avg/Gust 9/12

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the west and north sides of the building, R&A continues setting block and brick from the 2<sup>nd</sup> level up. Cavities are free of excess materials and insulation has been installed. Installation appears to be in a sufficient manner.  
**See Photos 01-05**

Galveston, TX 77550

- At the northeast corner, R&A was in the process of scraping and washing the installed façade down. The process appeared to be in a sufficient manner.

409-740-0090 (voice)

**See Photos 06-08**

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866-551-0090 (toll free)



**Photo 01**  
View of Block Installation



**Photo 02**  
Example of Brick Cavity Free of Excess Mortar



**Photo 03**  
Example of Loose Lintel Set in Place



**Photo 04**  
Overview of Brick Installation in Progress



**Photo 05**  
Corner Column Brick Cavity Free of Excess Materials



**Photo 06**  
Example of Masonry Cleaning



**Photo 07**  
Example of Masonry Cleaning



**Photo 08**  
Overview of Work in Progress

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 45**  
**Day of Visit: June 30, 2021 (Wednesday)**

**Issued:** July 7, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 6/30/2021**

Temperature Low/High (°F) 72/90

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

54/100

Wind Speed (MPH) Avg/Gust 6/0

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the roof, the capstone has been installed and sealed with joint sealants. The metal flashing with a drip edge was installed prior to the capstone and embedded in sealant. A flexible flashing was then installed on the backside of said metal flashing and terminated with sealant. At the end of the capstone installation, the metal and flexible flashing was left exposed for the future tie-in. Installation appeared to be in a sufficient manner. **See Photos 01-03**

Galveston, TX 77550

- At the roof expansion joint, from new to existing buildings, an expansion bellows joint has been installed. However, there is no approved submittal to be found for this material. The bellows joint that has been installed, appears to be over-compressed and the facer material is splitting where it has been folded. **See Photos 04-05**

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**Photo 01**  
Overview of Capstone in Place



**Photo 02**  
Example of Sealant on Capstone



**Photo 03**  
Flashings Left Exposed for Tie-In



**Photo 04**  
Overview of Bellow Joint Installation



**Photo 05**  
Expansion Joint Facer Material Splitting

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 46**  
**Day of Visit: July 6, 2021 (Tuesday)**

**Issued:** July 7, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 7/6/2021**

Temperature Low/High (°F) 73/87

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

59/100

Wind Speed (MPH) Avg/Gust 8/11

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the west face, R&A was installing the stone band at the steel lintel. Wall ties were installed where needed at stone placement, and anchors had sealant, prior to installation. Above, also on the west side, wall ties were being pre-installed. At the time of installation, ZSC noticed missing anchors. This was brought to R&A personnel's attention and was immediately remedied. Installation appeared to be in a sufficient manner. **See Photos 01-06**

Galveston, TX 77550

- At the south face of the building, Chamberlin was installing flexible flashing to tie in to the metal flashing that was previously installed. Upon observation, the flexible flashing was adhered to the substrate, and rolled with a hand roller. Sealant was then added to the perimeters of said flashing and penetrations. Installation appeared to be in a sufficient manner. **See Photos 07-10**

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3. At the west face, Chamberlin was observed during the installation of metal flashing with a drip edge. Sealant was added to the backsides of the metal and embedded, in said sealant. The metal flashing was then anchored to the steel lintel. Overlaps were a minimum of 4" per SMACNA standards. Installation appeared to be in a sufficient manner. ***See Photos 11-14***



**Photo 01**  
Overview of Work in Progress



**Photo 02**  
Example of Stone Installation



**Photo 03**  
Pintles Installed w/ Sealant on Anchors



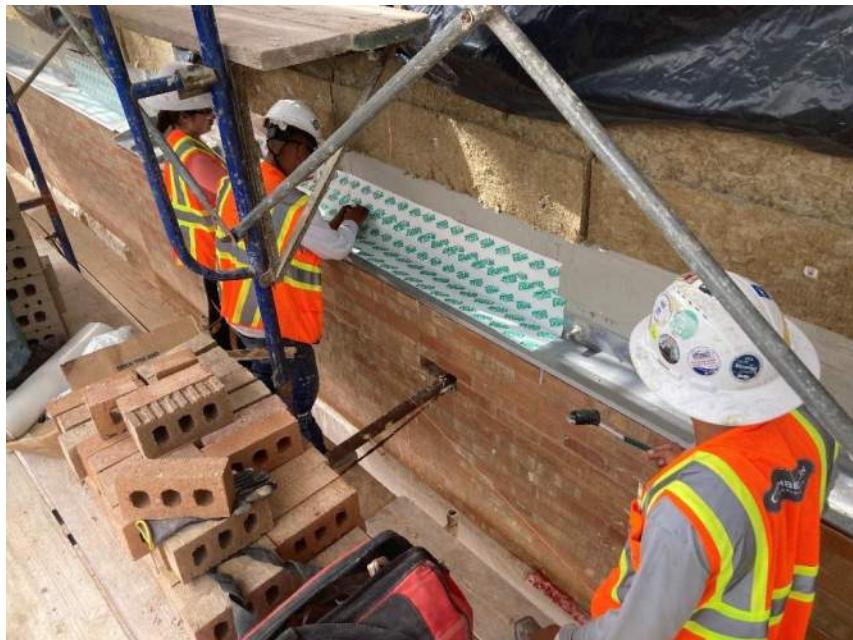
**Photo 04**  
Example of Missing Anchor



**Photo 05**  
Example of Sealant on Anchor



**Photo 06**  
Anchor Installed Where Missing



**Photo 07**  
Example of Flexible Flashing Installation



**Photo 08**  
Hand Roller Used for Flexible Flashing



**Photo 09**  
Sealant Used for Terminating Flexible Flashing



**Photo 10**  
Sealant Tooled into Place



**Photo 11**  
Example of Metal Flashing Installation



**Photo 12**  
Sealant Added to Metal Flashing Prior to Installation



**Photo 13**  
Metal Flashing Installed



**Photo 14**  
Metal Flashing Anchored to Steel Lintel

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 47**  
**Day of Visit: July 15, 2021 (Thursday)**

**Issued:** July 19, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 7/15/2021**

Temperature Low/High (°F) 70/90

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

53/100

Wind Speed (MPH) Avg/Gust 8/12

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. At the north face of the building, Chamberlin was observed installing joint sealants in the brick and stone façade. The joints were cleaned with denatured alcohol, backer-rod was installed and the sealants were then installed in the prepared joint. Installation appeared to be in a sufficient manner and ZSC had no issues at the time of installation. **See Photos 01-04**

2. At the west face of the building, Chamberlin was observed installing a two-piece metal flashing at the loose lintels above the windows. Upon observation, it was noticed that the metal flashing was anchored to the steel lintel. The first was a flat metal with a drip edge that sat on the lintel horizontally. The second was a Z flashing (of sorts) that was anchored to the vertical part of the lintel and to the wall behind. Both metal flashings were embedded in sealant. The metal flashing then had flexible flashing installed with a termination bar on top. Sealant was

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then added to the termination bar and the perimeter of the flexible flashing. Installation appeared to be in a sufficient manner. ***See Photos 05-11***

3. At the north and west face of the building, R&A was observed installing brick and stone. Upon observation, the mortar net had been installed and the cavity was free and clear of excess materials. The stones were lifted into place and set in a bed of mortar. They were then shimmed once they were plumb and level. A notch was then ground into the top of the stone for the pintle. Installation appeared to be in a sufficient manner. ***See Photos 12-16***



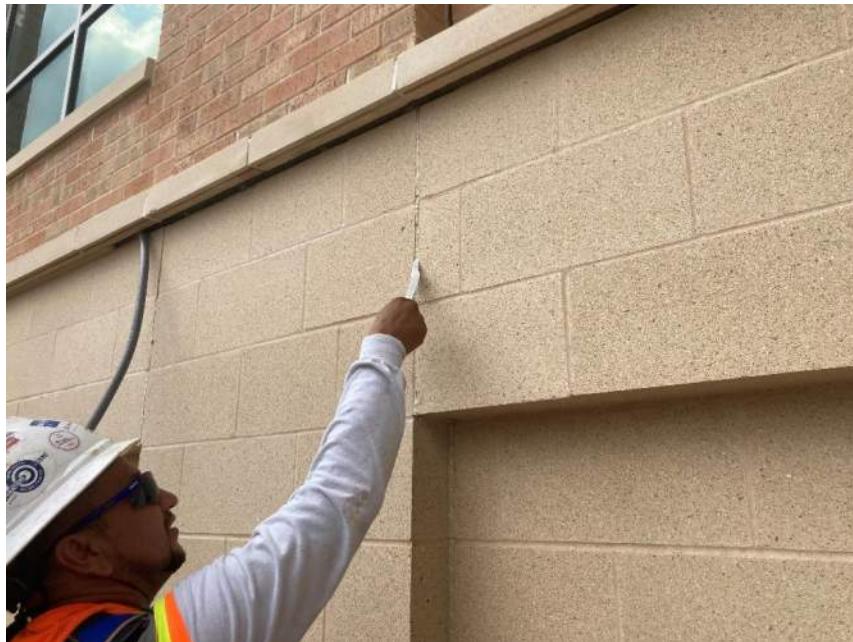
**Photo 01**  
Overview of Work in Progress



**Photo 02**  
Example of Backer Rod Installation



**Photo 03**  
Sealant Being Installed



**Photo 04**  
Example of Sealant Tooled into Place



**Photo 05**  
Example of Metal Flashing Installation



**Photo 06**  
Flexible Flashing Installed Over Metal Flashing



**Photo 07**  
Example of Flexible Flashing Rolled



**Photo 08**  
Sealant Installed Between Metal Flashings



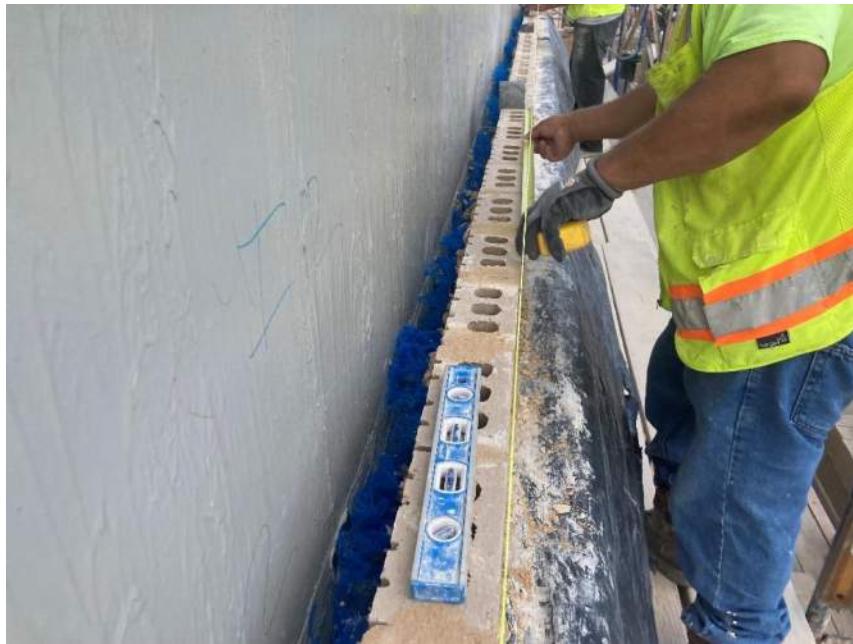
**Photo 09**  
Sealant Used for Terminating Flexible Flashing



**Photo 10**  
Termination Bar Installed at Top of Flexible Flashing



**Photo 11**  
Sealant Installed at Termination Bar



**Photo 12**  
Overview of Masonry Installation



**Photo 13**  
Example of Stone Installation



**Photo 14**  
Stone Placement Level and Plumb



**Photo 15**  
Grinding Notch for Pintle Installation



**Photo 16**  
Example of Pintle Installation

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 48**  
**Day of Visit: July 22, 2021 (Thursday)**

**Issued:** July 27, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 7/22/2021**

Temperature Low/High (°F) 69/90

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

55/100

Wind Speed (MPH) Avg/Gust 9/11

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

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- At the roof, from existing to new buildings, ZSC observed the installed expansion joint, metal flashing, flexible flashing, termination bar and sealant. Upon observation, it was noticed that the flexible flashing (WIP 300), was not adhered properly and falling away from the substrate. It was also noticed that the termination bar installed, specifically below existing windows, was missing sealant for a proper termination. In the same location, there were areas noticed to have missing and gaps in sealant at the overlaps on the metal flashing.

***See Photos 01-07***

- At the roof, Chamberlin was in the process of laying out the pro-glaze silicone tape in order to adhere two (2) pieces together with Tremco Spec 1. This is in order to have a wide enough system between the existing building and the curtain wall that was installed on the new building. Upon observation, it was

noticed that the pro-glaze, in some areas, had fish mouthing. This was brought to Chamberlin's attention and will need to be repaired prior to installation.

***See Photos 08-10***

3. At Level 1 in the southwest corner, an example of the pro-glaze was installed on the existing substrate. Primer was rolled onto the wall and allowed to cure. Two (2) beads of sealant were then added with the pro-glaze embedded in said sealant. Tremco will be on-site to perform a pull test on 7/29/20.

***See Photos 11-13***



**Photo 01**  
Overview of Work in Progress



**Photo 02**  
Overview of Roof Expansion Joint



**Photo 03**  
Flexible Flashing not Adhered and Falling



**Photo 04**  
Unadhered Flex Flashing w/ Fish Mouthing at Overlap



**Photo 05**  
Sealant Missing at Top of Term Bar



**Photo 06**  
Sealant Missing at Term Bar and Hole at Overlap on Metal Flashing



**Photo 07**  
Flexible Flashing not Adhered and Falling Away from Substrate



**Photo 08**  
Pro-Glaze Being Prepared for Installation



**Photo 09**  
Fish Mouths in Pro-Glaze



**Photo 10**  
Pro-Glaze Fish Mouthing



**Photo 11**  
Example of Pro-Glaze Adhered to Existing Substrate



**Photo 12**  
Overview of Pro-Glaze Tested



**Photo 13**  
Example of Pro-Glaze Tested

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 49**  
**Day of Visit: July 28, 2021 (Wednesday)**

**Issued:** July 29, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 7/28/2021**

Temperature Low/High (°F) 73/92

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

48/100

Wind Speed (MPH) Avg/Gust 4/0

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. At the roof, R&A was installing the last of the capstone at the parapet on the west side of the building. Upon observation, the stones were lifted into place and set on shims. Measurements were taken and the stone notched, in order to anchor the stone to the parapet. Anchors were dipped into sealant prior to fastening. Installation appeared to be in a sufficient manner. **See Photos 01-06**

2. At the roof, Chamberlin was laying out the Tremco pro-glaze, in order to adhere two pieces together for the desired width needed. Tremco's Spec1 was added to the pro-glaze on one side and another strip was embedded into said sealant. Installation appeared to be in a sufficient manner. **See Photos 07-09**

3. At the southeast corner of the building, Chamberlin installed the pro-glaze silicone tape from the existing building to the new curtainwall system. Tremco's epoxy primer was installed on to the existing buildings substrate and allowed to

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cure. Once cured, a bead of sealant was added to the epoxy primer and the pro-glaze was embedded into the sealant. At level one through four, areas were noticed to have insufficient adhesion. Sealant was not continuous in some areas and fish mouths were occurring. ZSC recommends removing the sealant from one side or the other of the fish mouths. This will allow the pro-glaze to lay flat and have continuous adhesion throughout the system. **See Photos 10-14**



**Photo 01**  
Overview of Work in Progress



**Photo 02**  
Overview of Capstone Flown to Roof



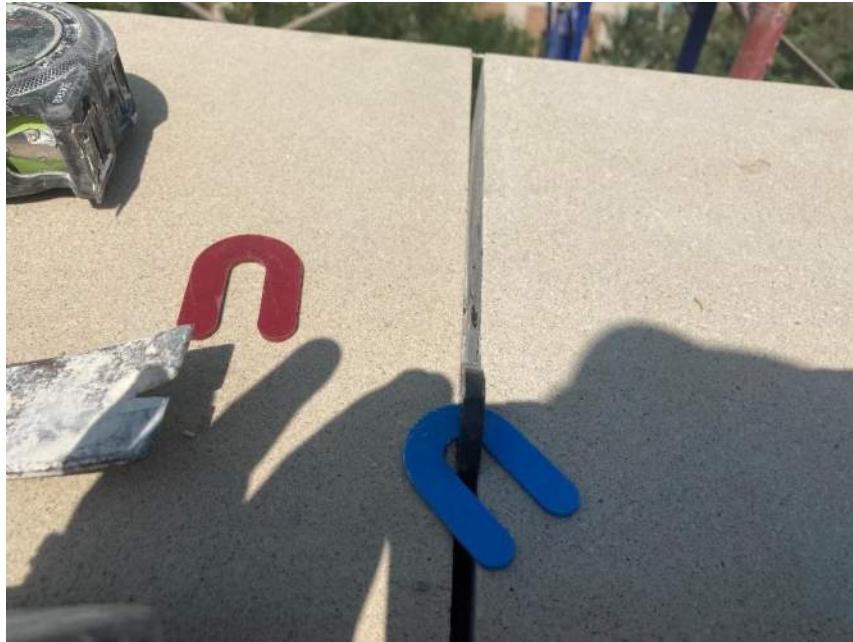
**Photo 03**  
Anchor Installation on Capstone



**Photo 04**  
Anchor Dipped in Sealant Prior to Fastening



**Photo 05**  
Capstone Anchored to Parapet



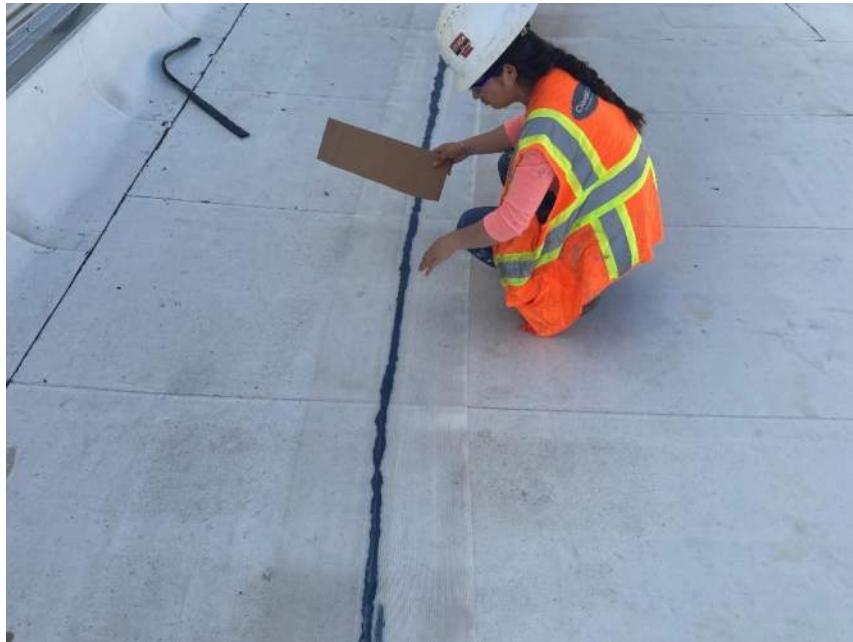
**Photo 06**  
Shims Placed for Spacing of Capstone



**Photo 07**  
Sealant Added Prior to Adhering Them Together



**Photo 08**  
Pro-Glaze Being Prepared for Installation



**Photo 09**  
Pro-Glaze Prepped Prior to Installation



**Photo 10**  
Installed Pro-Glaze Missing Sealant



**Photo 11**  
Example of Pro-Glaze Missing Sealant



**Photo 12**  
Example of Pro-Glaze not Adhered to Substrate



**Photo 13**  
Example of Pro-Glaze w/ Fish Mouth



**Photo 14**  
Example of Pro-Glaze w/ Fish Mouth

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 50**  
**Day of Visit: August 4, 2021 (Wednesday)**

**Issued:** August 6, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 8/4/2021**

Temperature Low/High (°F) 73/92

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

48/100

Wind Speed (MPH) Avg/Gust 4/0

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) onsite to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

- At the east and west curtainwall, Chamberlin installed the prepared pro-glaze from the CW to the existing building. On the existing substrate, an epoxy primer was installed and allowed to dry. A bead of sealant was then added to the epoxy and the CW mullion jamb. Pro-glaze was then embedded into the sealant. Installation appeared to be in a sufficient manner. **See Photos 01-03**

Galveston, TX 77550

- At the roof on the south side curb, the metal flashing covering the expansion joint, extends downward to the roof. At the curb the vertical flashing is cut at the curb with one of the corners resting on the membrane. ZSC recommends cutting this corner back in order to keep from penetrating the membrane in the future.

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**See Photos 04-05**

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866-551-0090 (toll free)

3. At the roof, metal flashing and term bar have been installed. However, under the existing window sills, there is missing sealant at the termination bar. This was brought up in Field Report #48, recommending the sealant be repaired. Upon this observation, brick has now been installed. This single layer of brick will need to be removed, sealant repaired and documented prior to covering again. **See Photos 06-08**



**Photo 01**  
Overview of Building Progress



**Photo 02**  
Pro-Glaze Installation



**Photo 03**  
Example of Pro-Glaze Installed



**Photo 04**  
Metal Flashing w/ Sharp Corner Resting on Roof Membrane



**Photo 05**  
Overview of Metal Flashing Resting on Roof Membrane



**Photo 06**  
Sealant w/ Gaps at Termination Bar



**Photo 07**  
Sealant Missing at Top of Term Bar



**Photo 08**  
Brick Installed Prior to Repairing Term Bar w/ Missing Sealant

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 51**  
**Day of Visit: August 23, 2021 (Monday)**

**Issued:** August 23, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

**Weather Summary for: 8/23/2021**

Temperature Low/High (°F) 69/96

Rain (inches) 0.00"

Galveston

Tanner Hawkins

SpawGlass

Humidity Min/Max %

48/100

Wind Speed (MPH) Avg/Gust 4/0

Events

None

Austin

**Distribution:**

Mark Brooks

UT

Tyler Patton

SpawGlass

Wallace Schoen

UT

Tanner Hawkins

SpawGlass

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

San Antonio

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. At the west face of the building, Chamberlin installed the vertical expansion joint between the existing building and the new curtain wall. Installation appears to be in a sufficient manner. **See Photos 01-03**

2. At the roof on both the east and west sides of the south parapet area, ZSC observed several areas where there is missing flashing and exposed flashings NOT terminated. At the end of the east parapet, it appears the receiver has been removed and the flexible flashing is exposed. This was brought the SG's attention and they were aware KR is in the process of making repairs. At the end of the parapet on the west side, metal flashing has been installed with no termination and on the outside of the cap sheet membrane. This will need to be repaired. **See Photos 04-07**

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3. At the east end of the parapet, flexible and metal flashings have been installed, leaving exposed ends. The flexible flashing that is exposed under the cap stone, will need to be cut back and sealed. The metal flashing at the base of wall will need to be terminated. ***See Photos 08-09***



**Photo 01**  
Overview of Building Progress



**Photo 02**  
Example of Installed Expansion Joint



**Photo 03**  
Overview of Expansion Joint



**Photo 04**  
Metal Flashing with Exposed Membrane



**Photo 05**  
Overview of Metal Flashing with Exposed Membrane



**Photo 06**  
Overview of Area Where Flashing NOT Terminated



**Photo 07**  
Metal Flashing Not Terminated



**Photo 08**  
Overview of the Area Where Flashing Not Terminated



**Photo 09**  
Flashing NOT Terminated

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 52**  
**Day of Visit: September 9, 2021 (Thursday)**

**Issued:** September 28, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston

Zero/Six

Paul Gavin

Zero/Six

Galveston

**Weather Summary for: 9/9/2021**

Temperature Low/High (°F) 62/94

Rain (inches) 0.00"

Humidity Min/Max % 28/93

Wind Speed (MPH) Avg/Gust 8/13

Events None

Austin

**Distribution:**

Mark Brooks

UT

Wallace Schoen

UT

Steve Bruppacher

BSA

Gilbert Martinez

SpawGlass

Ramon Arteaga

BSA

Brandon McDermott

Zero/Six

Taylor Roche

BSA

Darryl Castleberry

Zero/Six

Rio Grande Valley

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

1. At the north and west face of the building, ZSC performed nozzle testing at two previously failed windows. Upon introducing water to the specimens at 30psi for one minute per linear foot, it was found that the repairs necessary were completed and both window retests passed. **See Photos 01-03**

2. At the west face of the building on level 2, ZSC performed nozzle testing as an add-on for the previously failed windows. Upon introducing water, it was not until ZSC started the upper portion of the jamb to the head that water intrusion became visible. A visual inspection was conducted, and it was noticed that the heads of the window sealant was not properly installed. ZSC was scheduled to test a 2<sup>nd</sup> add-on, but upon a visual inspection of this window, it was noticed that it had been sealed in the same manner. **See Photos 04-07**

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**Photo 01**  
Overview of Building Progress



**Photo 02**  
Example of 30psi of Water Introduced to Specimen



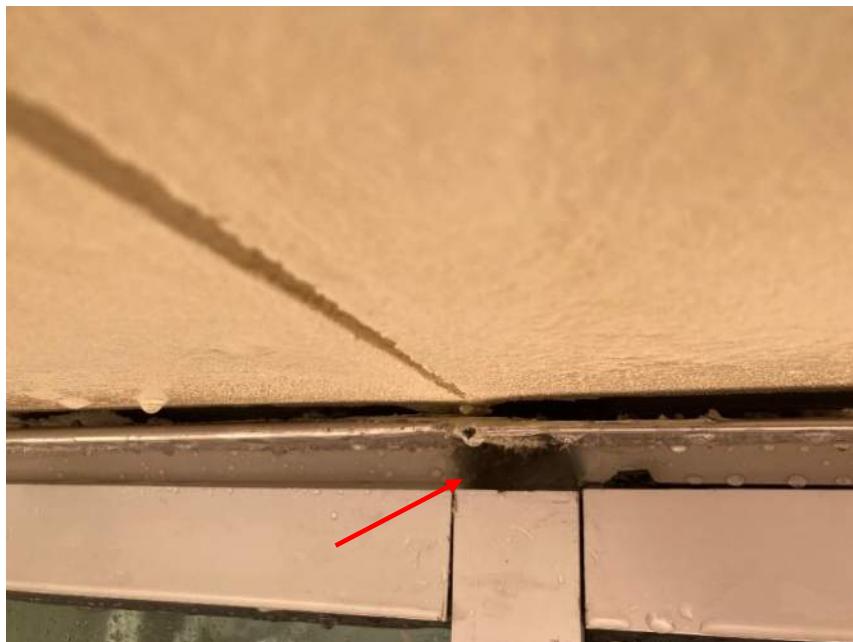
**Photo 03**  
Water Introduced to Specimen



**Photo 04**  
Example of Water Intrusion at the Interior



**Photo 05**  
Window Head not Properly Sealed



**Photo 06**  
Window Head at Center Mullion not Properly Sealed



**Photo 07**  
Window Head not Properly Sealed

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

# **ZERO / SIX**

## **Consulting**

Envelope Architecture

**UT Austin**  
**Sarah M. & Charles E. Seay Building Addition**  
**CPC Project Number: 102-1219**  
**Field Report No. 53**  
**Day of Visit: September 23, 2021 (Thursday)**

**Issued:** September 28, 2021

**Prepared by:** Lane Coston

**In Attendance:**

Lane Coston      Zero/Six  
Paul Gavin      Zero/Six

**Weather Summary for: 9/23/2021**

Temperature Low/High (°F)	49/85
Rain (inches)	0.00"
Humidity Min/Max %	17/90
Wind Speed (MPH) Avg/Gust	4/0
Events	None

Galveston

Austin

Dallas

San Antonio

Rio Grande Valley

**Distribution:**

Mark Brooks	UT	
Wallace Schoen	UT	
Steve Bruppacher	BSA	Gilbert Martinez
Ramon Arteaga	BSA	Brandon McDermott
Taylor Roche	BSA	Darryl Castleberry
		SpawGlass
		Zero/Six
		Zero/Six

**Purpose of Visit:** Zero/Six (ZSC) on-site to observe and document construction progress related to the building envelope.

**Comments and Observations:**

1027 Tremont St.

Galveston, TX 77550

409-740-0090 (voice)

409-740-0554 (fax)

866-551-0090 (toll free)

1. At the west face of the building on level 2, ZSC conducted nozzle testing on a previously failed window. Upon testing, at the head of the window system, water became visible at the gasket of the system on the interior at 4 minutes into the test. This specimen was considered a system failure. In the same area on the west, a specimen was picked next to the previous and was considered a pass. **See Photos 01-06**
2. At the north elevation on the 2<sup>nd</sup> level, ZSC conducted another nozzle test as a retest for a previously failed window. Upon introducing water to the specimen, water intrusion was detected in the stainless sill pan at 4 ½ minutes into the test. Water was detected in the sill pan once the jamb started to have water introduced. With water able to be visible in the stainless sill pan with no way to escape, this specimen was considered a fail. **See Photos 07-10**



**Photo 01**  
Overview of Building Progress



**Photo 02**  
Example of 30psi of Water Introduced to Specimen



**Photo 03**  
Water Introduced to Specimen at 30psi



**Photo 04**  
Interior View of Nozzle Testing



**Photo 05**  
Water Intrusion at Gasket



**Photo 06**  
Example of Amount of Water from Intrusion



**Photo 07**  
View of Specimen Tested



**Photo 08**  
Example of Water Introduction at Specimen



**Photo 09**  
Water Infiltration Becomes Visible



**Photo 10**  
Example of Litmus Paper showing Moisture

**End of Report**

The preceding represents Zero/Six Consulting's understanding of the principal matters discussed and/or observed. Written comments with regard to the content of this report should be received by ZSC within three days from date of issue. After that date, these notes shall stand as a final accounting of the items discussed and/or observed.

## 4.5 WINDOW PERFORMANCE TESTING PER AAMA 501.2

Window Performance  
Testing per AAMA  
501.2

University of Texas  
SEAY

**FINAL REPORT**  
**10.21.2021**



Zero/Six Consulting, LLC  
2025 Nichols Ave  
Dickinson, TX 77539  
[z6consulting.com](http://z6consulting.com)





# TABLE OF CONTENTS

TABLE OF CONTENTS .....	2
PROJECT DATA .....	3
EXECUTIVE SUMMARY .....	4
AAMA 501.2 TEST CRITERIA.....	5
TEST SPECIFICS .....	6
TEST SUMMARY .....	8
PHOTOGRAPHS .....	27
KEYED ELEVATIONS .....	32



# PROJECT DATA

<b>Testing Agency</b>	Zero/Six Consulting, LLC ISO/IEC 17025 Certificate AT-2090
<b>Project</b>	UT SEAY
<b>Project Address</b>	108 E. DEAN KEETON ST. AUSTIN, TX 78712
<b>Zero/Six Project #</b>	19067
<b>Report #</b>	5
<b>Client</b>	University of Texas
<b>Contractor</b>	Spaw Glass
<b>Subcontractor</b>	Performance Glass & Aluminum (Contractor)
<b>Test Performed</b>	AAMA 501.2
<b>Date of Report</b>	10.21.2021
<b>Report Author(s)</b>	Jeffrey T. Bishop, PE Nick Roque Kyle Colombo



## EXECUTIVE SUMMARY

Zero/Six Consulting, LLC (ZSC), was contracted by University of Texas to provide window performance testing per AAMA 501.2 in Austin, Texas, on the new SARAH M. & CHARLES E. SEAY BUILDING ADDITION.

On March 17, 2021, ZSC mobilized to perform AAMA 501.2 water on three window specimens (specimens 1-3). These specimens were all located on the West elevation on levels 2-4. During testing of specimen 1, failure occurred when water infiltration was observed within the perimeter at the interior left corner of the sill. Specimens 2 & 3 passed with no water infiltration observed.

On May 4, 2021, ZSC mobilized to perform AAMA 501.2 water on seven window specimens (specimens 4-10). These specimens were all located on the West (Specimens 8-10) & North (Specimens 4-7) elevations. During testing of specimen 5, failure occurred when water infiltration was observed within the perimeter of the sill. All other specimens passed with no water infiltration observed.

On September 9, 2021, ZSC mobilized to perform AAMA 501.2 water on three window specimens, including two retests (specimens 5.1, 1.1 &11). During testing of specimen 11, failure occurred when water infiltration was observed within multiple locations of the system. All other specimens passed with no water infiltration observed.

On September 23, 2021, ZSC mobilized to perform AAMA 501.2 water on three window specimens, including one retest (specimens 11.1, 12 &13). During testing of specimen 11.1 & 12, failure occurred when water infiltration was observed within various locations of the system (11.1) and perimeter (12). Specimen 13 passed with no water infiltration observed.

On October 7, 2021, ZSC mobilized to perform AAMA 501.2 water on three window specimens, including two retests (specimens 11.2, 12.1 &14). During testing, no water infiltration was observed at the specimens tested, resulting in a pass for all three.

Further detailed results can be found within the testing summaries of this report.

*These tests are accredited under the laboratory's ISO/IEC 17025 accreditation issued by the ANSI-ANAB National Accreditation Board. Refer to the ANAB certificate and scope of accreditation AT-2090. No modifications were made by Zero/Six Consulting, specimens were tested as received.*



## AAMA 501.2 TEST CRITERIA

**Procedure:** Working from the exterior, the wall test units shall be selectively wetted progressing from the lowest horizontal joint, then intersecting vertical joints, then the next horizontal joint above, etc. The water shall be applied using a type B-25 #6.030 brass nozzle with 1/2" FPT as manufactured by Monarch Nozzle Company. The nozzle shall be used with a 3/4" garden hose and shall be provided with a control valve and a pressure gage between the valve and the nozzle. The water flow to the nozzle shall be adjusted to produce 30 to 35 psi water pressure at the nozzle inlet.

With water directed at the joint perpendicular to the face of the wall, the nozzle shall be moved slowly back and forth above the joint, at a distance of 12", for a period of five minutes, for five feet of joint, while an observer on the indoor side of the wall checks for any leakage and notes where it occurs.

**Failure Defined:** Water leakage is defined as any uncontrollable water that appears on any normally exposed interior surfaces, that is not contained or drained back to the exterior, or that can cause damage to the adjacent material or finishes.

**Additional Information:** Water source for the testing was hose bib located adjacent to the test areas and provided adequate pressure for testing. A gauge installed on the nozzle wand was used to monitor the water pressure. Test subjects were all tested in accordance with AAMA standards beginning at the sill and continuing to the jamb, verticals and finally to the head. All locations of water infiltration are described as viewed from the interior; i.e. water infiltration at intersection of right jamb/sill. In some instances, testing was continued after water infiltration was observed to ensure no other infiltration occurrences.

**\*Measurement uncertainty data and calibration certificates specific to this test(s) can be provided upon request**



# TEST SPECIFICS

<b>Specimen Shop Drawings (dimensions, specifics)</b>	<a href="https://z6companies.bitrix24.com/~StIKG">https://z6companies.bitrix24.com/~StIKG</a>
<b>Specimen Age</b>	Unknown – Less than 1 month
<b>Manufacturer</b>	Kawneer
<b>Model</b>	1600 Curtainwall & Encore Storefront
<b>Conformity or Pass/Fail</b>	Pass/Fail
<b>Sampling</b>	Chosen at random by Zero/Six Consulting. Number of tests as described in specifications. The results from this testing are to verify proper installation of these units. Expected variation between specimens is minimal, 5% with regular inspections. Confidence level for extrapolating the test results is 95% if testing at least 10% of total windows with regular inspections.

## Environmental Conditions

<b>Date</b>	3.17.2021
<b>Temperature</b>	70°F (Min: 56°F, Max: 79°F)
<b>Humidity</b>	45% (Min: 28%, Max: 70%)
<b>Barometric Pressure</b>	29.53" Hg
<b>Wind Speed/Direction</b>	WNW @ 14 mph
<b>Events</b>	None

<b>Date</b>	5.4.2021
<b>Temperature</b>	71°F (Min: 62°F, Max: 79°F)
<b>Humidity</b>	63% (Min: 56%, Max: 73%)
<b>Barometric Pressure</b>	29.45" Hg
<b>Wind Speed/Direction</b>	North @ 18 mph
<b>Events</b>	None

<b>Date</b>	9.9.2021
<b>Temperature</b>	78°F (Min: 62°F, Max: 94°F)
<b>Humidity</b>	58% (Min: 51%, Max: 62%)
<b>Barometric Pressure</b>	29.47" Hg
<b>Wind Speed/Direction</b>	North @ 13 mph
<b>Events</b>	None

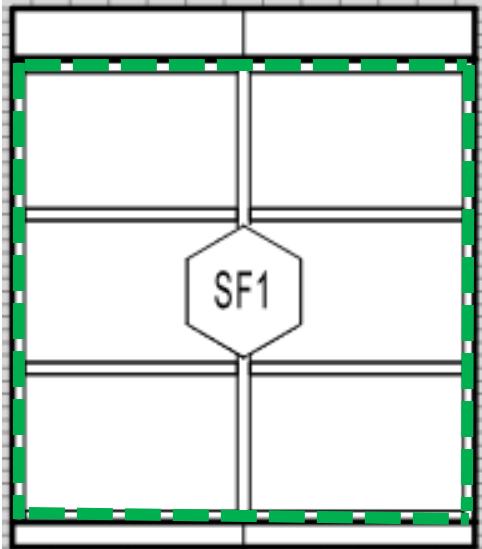
<b>Date</b>	9.23.2021
<b>Temperature</b>	66°F (Min: 49°F, Max: 85°F)
<b>Humidity</b>	43% (Min: 36%, Max: 50%)
<b>Barometric Pressure</b>	29.56" Hg
<b>Wind Speed/Direction</b>	CALM @ 0 mph
<b>Events</b>	None

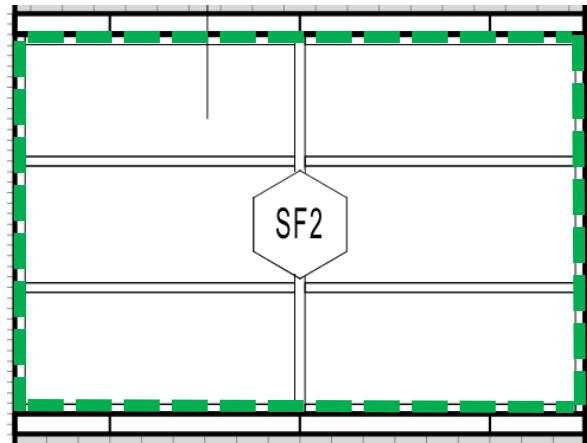
<b>Date</b>	10.7.2021
<b>Temperature</b>	72°F (Min: 57°F, Max: 89°F)
<b>Humidity</b>	59% (Min: 56%, Max: 63%)
<b>Barometric Pressure</b>	29.55" Hg
<b>Wind Speed/Direction</b>	CALM @ 0 mph
<b>Events</b>	None

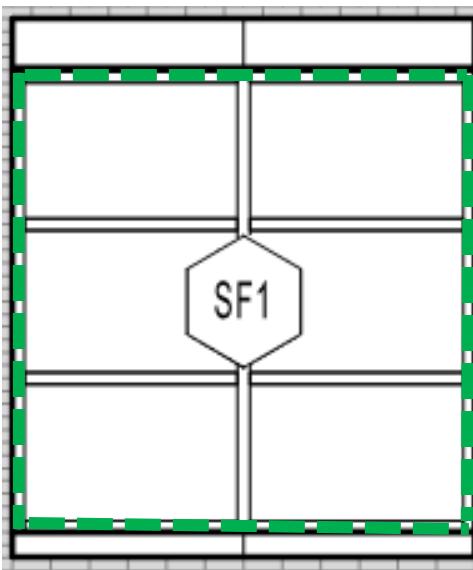


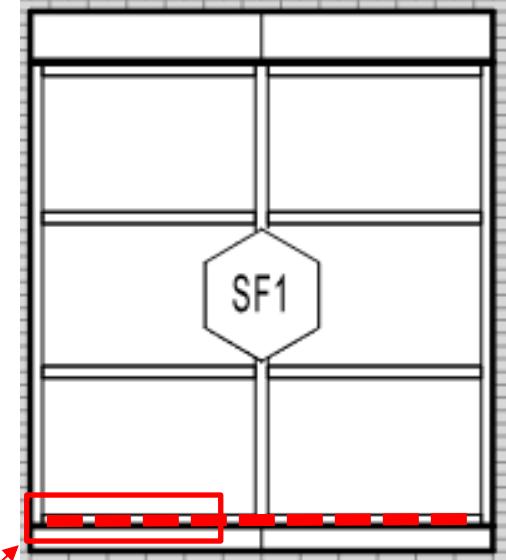
# TEST SUMMARY

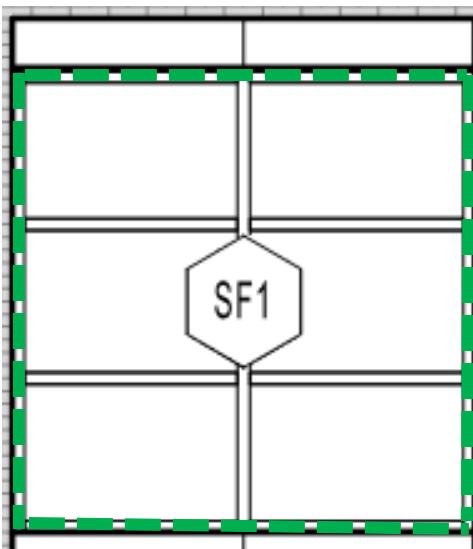
<b>Specimen</b>	Specimen 1	<b>Date</b>	3.17.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	9:50 AM
<b>Wand</b>	Wand 1	<b>Wind Speed</b>	CALM
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	L1 @ 4 <sup>th</sup> cycle		
<b>Test Result</b>	<b>FAILURE</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing of specimen 1, failure occurred when water infiltration was observed within the perimeter at the interior left corner of the sill.</p>		
	<p>The diagram shows a window frame with a central hexagonal pane labeled 'SF1'. A horizontal red dashed line labeled 'L1' runs across the frame. A red square highlights the interior left corner of the sill, indicating the point of failure where water infiltration was observed.</p> <p><b>Passed Testing</b>       </p> <p><b>Failed Testing</b>       </p> <p><b>Elevation as viewed from interior</b></p>		

<b>Specimen</b>	Specimen 2	<b>Date</b>	3.17.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	10:30 AM
<b>Wand</b>	Wand 1	<b>Wind Speed</b>	
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
			
	<p><b>Passed Testing</b>      </p> <p><b>Failed Testing</b>      </p> <p><b>Elevation as viewed from interior</b></p>		

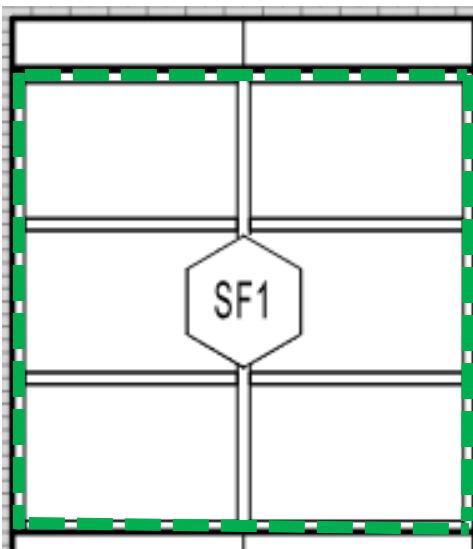
<b>Specimen</b>	Specimen 3	<b>Date</b>	3.17.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	11:30 AM
<b>Wand</b>	Wand 1	<b>Wind Speed</b>	
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b>  <b>Failed Testing</b>  <b>Elevation as viewed from interior</b>		

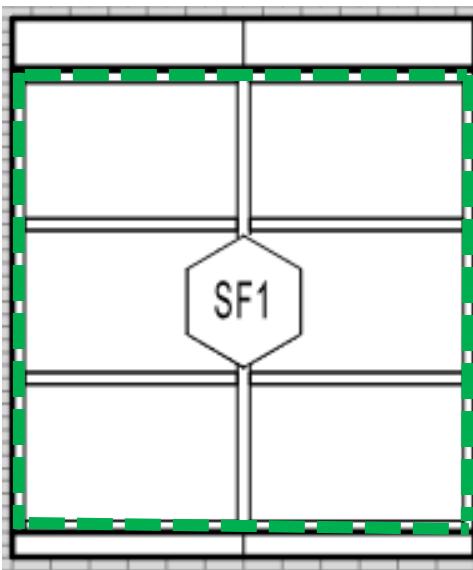
<b>Specimen</b>	Specimen 4	<b>Date</b>	5.4.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	10:45 AM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b>  <b>Failed Testing</b>  <b>Elevation as viewed from interior</b>		

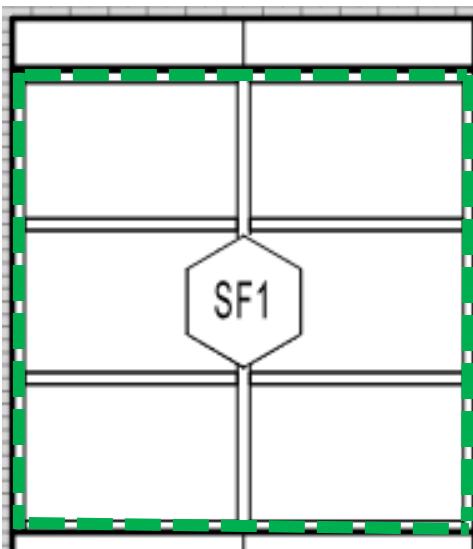
<b>Specimen</b>	Specimen 5	<b>Date</b>	5.4.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	11:27 AM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	8 mph
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	Failure		
<b>Test Result</b>	<b>FAILURE</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing of specimen 5, failure occurred when water infiltration was observed within the perimeter of the sill.</p>		
	 <b>L1</b>		
	<p><b>Passed Testing</b>      </p> <p><b>Failed Testing</b>      </p> <p><b>Elevation as viewed from interior</b></p>		

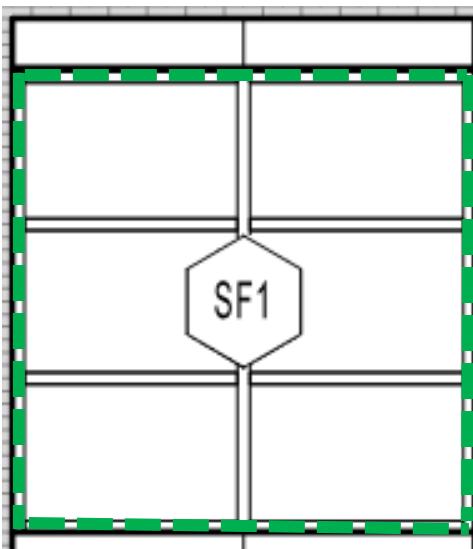
<b>Specimen</b>	Specimen 6	<b>Date</b>	5.4.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	1:26 PM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	7 MPH
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b>  <b>Failed Testing</b>  <b>Elevation as viewed from interior</b>		

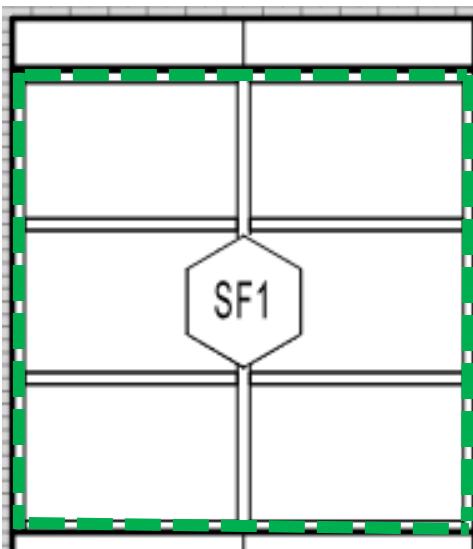
<b>Specimen</b>	Specimen 7	<b>Date</b>	5.4.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	2:04 PM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	9 MPH
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b> <b>Failed Testing</b> <b>Elevation as viewed from interior</b>		

<b>Specimen</b>	Specimen 8	<b>Date</b>	5.4.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	3:12 PM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	8 MPH
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b>  <b>Failed Testing</b>  <b>Elevation as viewed from interior</b>		

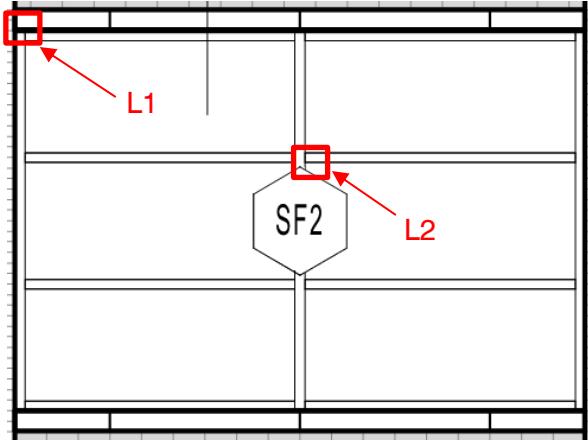
<b>Specimen</b>	Specimen 9	<b>Date</b>	5.4.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	3:49 PM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	8 MPH
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b>  <b>Failed Testing</b>  <b>Elevation as viewed from interior</b>		

<b>Specimen</b>	Specimen 10	<b>Date</b>	5.4.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	4:24 PM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	7 MPH
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b>  <b>Failed Testing</b>  <b>Elevation as viewed from interior</b>		

<b>Specimen</b>	Specimen 5.1	<b>Date</b>	9.9.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	11:20 AM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	7/16 NNE
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b>  <b>Failed Testing</b>  <b>Elevation as viewed from interior</b>		

<b>Specimen</b>	Specimen 1.1	<b>Date</b>	9.9.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	1:50 PM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	7/16 NNE
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b>  <b>Failed Testing</b>  <b>Elevation as viewed from interior</b>		

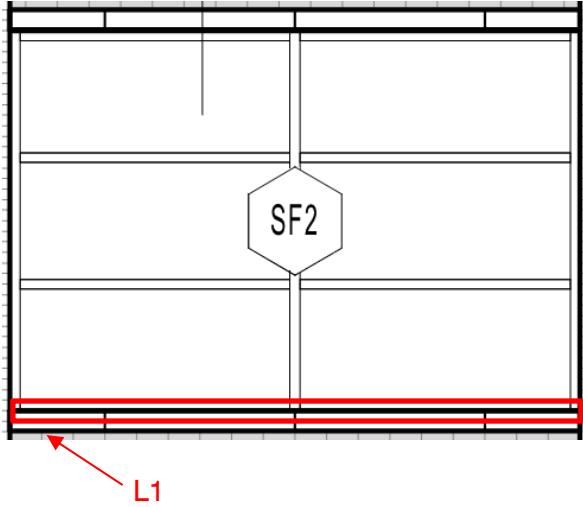
<b>Specimen</b>	Specimen 11	<b>Date</b>	9.9.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	2:50 PM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	7/16 NNE
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	L1 @ 2m0s 5 <sup>th</sup> Cycle		
<b>Test Result</b>	<b>FAILURE</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing of specimen 11, failure occurred when water infiltration was observed within the system at the head.</p>		
	<p>Passed Testing      <span style="color: green;">— — — —</span></p> <p>Failed Testing      <span style="color: red;">— — — —</span></p> <p><b>Elevation as viewed from interior</b></p>		

<b>Specimen</b>	Specimen 11.1	<b>Date</b>	9.23.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	1:45 PM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	CALM
<b>System Leak</b>	L1 @ 4m0s L2 @ 4m30s		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>FAILURE</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing of specimen 11.1, failure occurred when water infiltration was observed within the system at the interior left corner head (L1) and then a secondary leak was observed at the gasket within the intermediate mullion (L2).</p>		

**Passed Testing** ■ ■ ■ ■

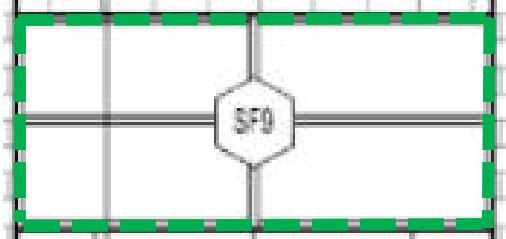
**Failed Testing** ■ ■ ■ ■

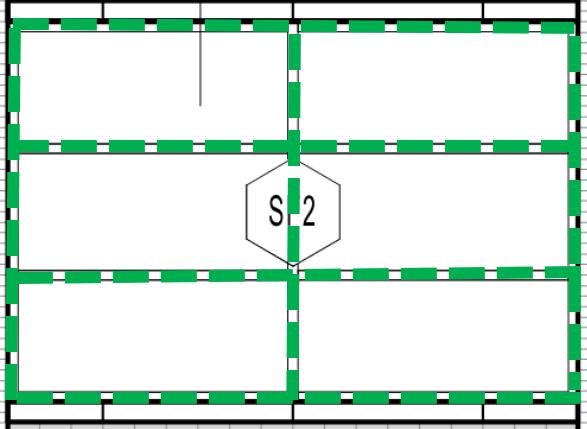
**Elevation as viewed from interior**

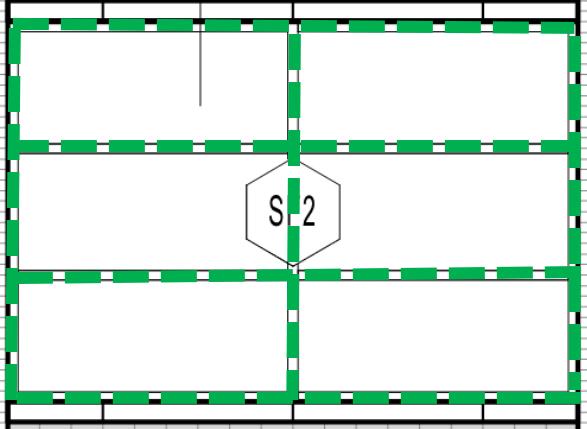
<b>Specimen</b>	Specimen 12	<b>Date</b>	9.23.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	2:20 PM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	CALM
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	L1 5 <sup>th</sup> Cycle		
<b>Test Result</b>	<b>FAILURE</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing of specimen 12, water infiltration was observed within the sill pan which was not being managed out through the weeps.</p>		
	 <b>Elevation as viewed from interior</b>		

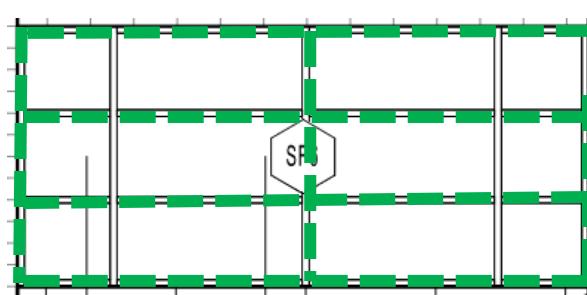
**Passed Testing** ■ ■ ■ ■

**Failed Testing** ■ ■ ■ ■

<b>Specimen</b>	Specimen 13	<b>Date</b>	9.23.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	3:00 PM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	CALM
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b> <span style="color: green;">— — — —</span> <b>Failed Testing</b> <span style="color: red;">— — — —</span> <b>Elevation as viewed from interior</b>		

<b>Specimen</b>	Specimen 11.2	<b>Date</b>	10.7.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	10:58 AM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	CALM
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b>  <b>Failed Testing</b>  <b>Elevation as viewed from interior</b>		

<b>Specimen</b>	Specimen 12.1	<b>Date</b>	10.7.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	11:00 AM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	CALM
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b>  <b>Failed Testing</b>  <b>Elevation as viewed from interior</b>		

<b>Specimen</b>	Specimen 14	<b>Date</b>	10.7.2021
<b>Test Standard</b>	AAMA 501.2	<b>Time</b>	11:30 AM
<b>Wand</b>	Wand 3	<b>Wind Speed</b>	CALM
<b>System Leak</b>	No Infiltration		
<b>Perimeter Leak</b>	No Infiltration		
<b>Test Result</b>	<b>PASS</b>		
<b>Description:</b>	<p>A visual examination was performed and no modifications or pertinent observations were observed with the exterior, cladding, or interior.</p> <p>Testing was performed in 5 ft or less sections, passing the wand across the intersection as prescribed in AAMA 501.2 at 1 min/ft. Testing commenced from bottom to top. During testing, no water infiltration was observed.</p>		
	 <b>Passed Testing</b> <span style="color: green;">— — — —</span> <b>Failed Testing</b> <span style="color: red;">— — — —</span> <b>Elevation as viewed from interior</b>		



# PHOTOGRAPHS

	<p>Overall photo of the West Elevation of the UT SEAY building.</p>	
<b>1</b>	<p><b>General Photo</b> 3.17.2021</p>	
	<p>AAMA 501.2 testing being performed at specimen 1</p>	
<b>2</b>	<p><b>Specimen 1</b> 3.17.2021</p>	
	<p>30 PSI on the gauge during AAMA 501.2 testing as per calibration.</p>	
<b>3</b>	<p><b>General Photo</b> 5.4.2021</p>	

	Water infiltration observed at the sill of specimen 5	
<b>4</b>	<b>Specimen 5</b> <b>5.4.2021</b>	
	Interior view of AAMA 501.2 testing being performed at specimen 8.	
<b>5</b>	<b>Specimen 8</b> <b>5.4.2021</b>	
	Exterior view of AAMA 501.2 testing being performed at specimen 11.	
<b>6</b>	<b>Specimen 11</b> <b>9.9.2021</b>	

		
<b>7</b>	<b>Specimen 11 9.9.2021</b>	
		
<b>8</b>	<b>Specimen 11.1 9.23.2021</b>	
		
<b>9</b>	<b>Specimen 11.1 9.23.2021</b>	

	30 PSI on the nozzle gauge as per calibration.	
<b>10</b>	<b>General Photo</b> <b>9.23.2021</b>	
	Water infiltration observed at specimen 12.	
<b>11</b>	<b>General Photo</b> <b>Specimen 12</b>	
	AAMA 501.2 testing being performed on specimen 13	
<b>12</b>	<b>Specimen 13</b> <b>9.23.2021</b>	

	AAMA 501.2 testing being performed on specimen 11.2	
<b>13</b>	<b>Specimen 11.2 10.7.2021</b>	
	AAMA 501.2 testing being performed on specimen 14	
<b>14</b>	<b>Specimen 14 10.7.2021</b>	



# KEYED ELEVATIONS



**West Elevation**

Elevations courtesy of BSA

- #  Passed AAMA 501.2 Water Testing
- #  Failed AAMA 501.2 Testing

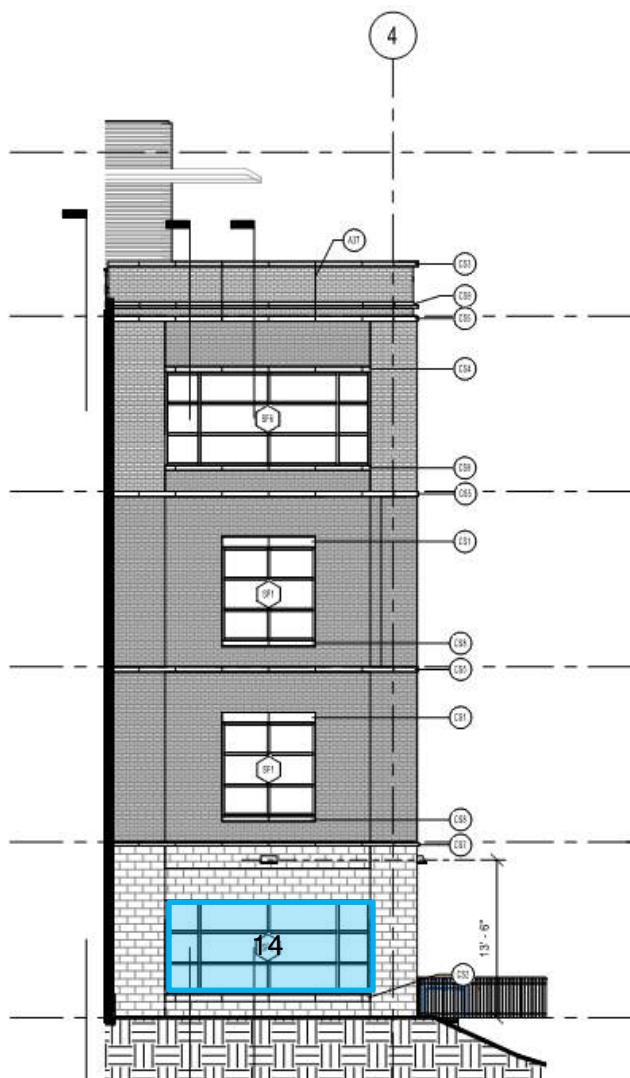


### North Elevation

Elevations courtesy of BSA

#  Passed AAMA 501.2 Water Testing

#  Failed AAMA 501.2 Testing



South Elevation

Elevations courtesy of BSA

- #  Passed AAMA 501.2 Water Testing
- #  Failed AAMA 501.2 Testing

**END OF REPORT**

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Written By:



Nicholas C. Roque

Reviewed By:



Anthony Cann

Approved By:



Kyle Colombo

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## 4.6 ROOF MEMBRANE UPLIFT TESTING PER ASTM E907

Roof Uplift Testing Per  
ASTM E907

University of Texas

SEAY

FINAL REPORT

7.14.2021



Zero/Six Consulting, LLC  
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Galveston, TX 77550  
[z6consulting.com](http://z6consulting.com)





# TABLE OF CONTENTS

TABLE OF CONTENTS .....	2
PROJECT DATA .....	3
EXECUTIVE SUMMARY .....	4
ASTM E907 TEST CRITERIA.....	5
TEST SPECIFICS .....	6
TEST SUMMARY.....	7
PHOTOGRAPHS .....	13
KEYED PLANS.....	15



# PROJECT DATA

<b>Testing Agency</b>	Zero/Six Consulting, LLC ISO/IEC 17025 Certificate AT-2090
<b>Project</b>	UT SEAY
<b>Project Address</b>	108 E. DEAN KEETON ST. AUSTIN, TX 78712
<b>Zero/Six Project #</b>	19069
<b>Report #</b>	1
<b>Client</b>	University of Texas – Austin
<b>Contractor</b>	Spawglass
<b>Subcontractor</b>	Kidd Roofing
<b>Test Performed</b>	ASTM E907
<b>Date of Report</b>	7.14.2021
<b>Report Author(s)</b>	Jeffrey T. Bishop, PE Nick Roque Kyle Colombo



## EXECUTIVE SUMMARY

Zero/Six Consulting (ZSC) was contracted by the University of Texas to perform roof uplift testing per ASTM E907 at the SEAY Building in Austin, Texas.

On July 1, 2021, ZSC mobilized to perform ASTM E907 testing on a total of six specimens, located on the roofs of the UT SEAY Building. During testing of these six specimens, ZSC did not observe any deflection above one inch which resulted in a pass for all specimens tested. Further Detailed results can be found in the test summaries of this report

*These tests are accredited under the laboratory's ISO/IEC 17025 accreditation issued by the ANSI-ANAB National Accreditation Board. Refer to the ANAB certificate and scope of accreditation AT-2090. No modifications were made by Zero/Six Consulting; specimens were tested as received.*



# ASTM E907 TEST CRITERIA

**Procedure:** Regulate the negative pressure in the chamber to the specified level. Unless otherwise specified, conduct the test by raising the negative pressure in the chamber to 15 lbs/ft<sup>2</sup> and holding this pressure for 1 minute. Thereafter, raise the pressure in increments not greater than 7.5 lbs/ft<sup>2</sup> until the agreed upon pressure is reached. Hold the pressure at each increment for 1 min. Terminate the test when failure occurs or at the completion of 1 min at the agreed upon specified negative pressure. Most roof systems subjected to a negative pressure will exhibit an upward deflection that will increase as the negative pressure increases. Poorly adhered systems will exhibit relatively large increases in upward deflections with relatively small increases in applied pressure. For roof systems that are well adhered, the increase in deflection will be gradual and at a relatively constant rate up to a point at or near failure. When failure occurs due to lack of adhesive or cohesive resistance of the roof system, there will be a sudden increase in the upward deflection. Roof surface temperature must be between 40 and 100° F.

Please see Wind Uplift load Chart on the Keyed Plans for Pressures.

## Failure Defined:

Failure is taken as uplifting of the roof covering as indicated by a measured upward deflection of 1 inch or greater at the center unless a particular system exhibits greater limits of deflection without failure as determined by examination or past test experience, or both. A sudden increase in deflection indicates a problem that requires further investigation to determine if adhesion or attachment of roofing system components is adequate.

**Measurement uncertainty data and calibration certificates specific to this test(s) can be provided upon request**



# TEST SPECIFICS

<b>Specimen Shop Drawings (dimensions, specifics)</b>	<a href="https://z6companies.bitrix24.com/~tQltl">https://z6companies.bitrix24.com/~tQltl</a>
<b>Specimen Age</b>	Approximately less than one month
<b>Manufacturer</b>	GAF
<b>Model</b>	EverGuard
<b>Conformity or Pass/Fail</b>	Pass/Fail
<b>Sampling</b>	Chosen by Zero/Six Consulting. Number of tests required per the ASTM E907 standard. The results from this testing are to verify proper installation.
<b>Modifications</b>	No modifications were made to the specimen that deviate from the shop drawings or effect the performance in any way.

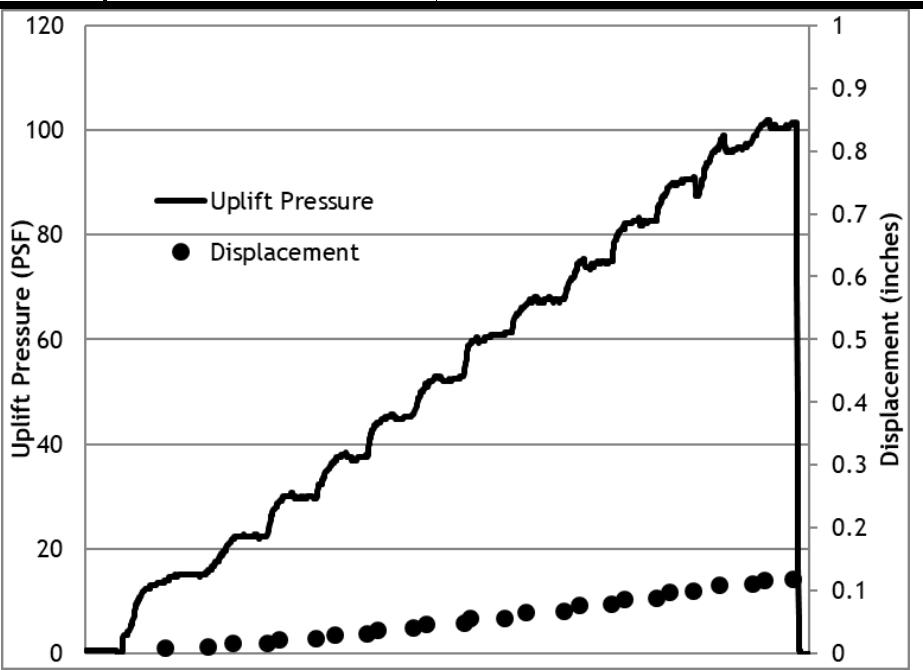
## Environmental Conditions

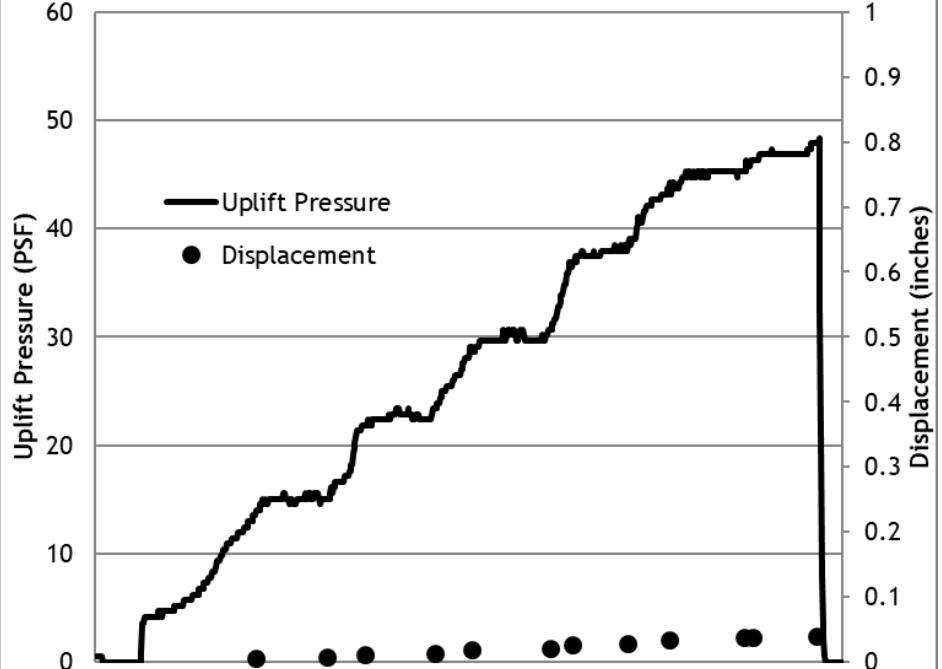
<b>Date</b>	7.1.2021
<b>Temperature</b>	81°F (Min: 71°F, Max: 92°F)
<b>Humidity</b>	71% (Min: 70%, Max: 74%)
<b>Barometric Pressure</b>	29.46" Hg
<b>Wind Speed/Direction</b>	SSW @ 3 mph
<b>Events</b>	None

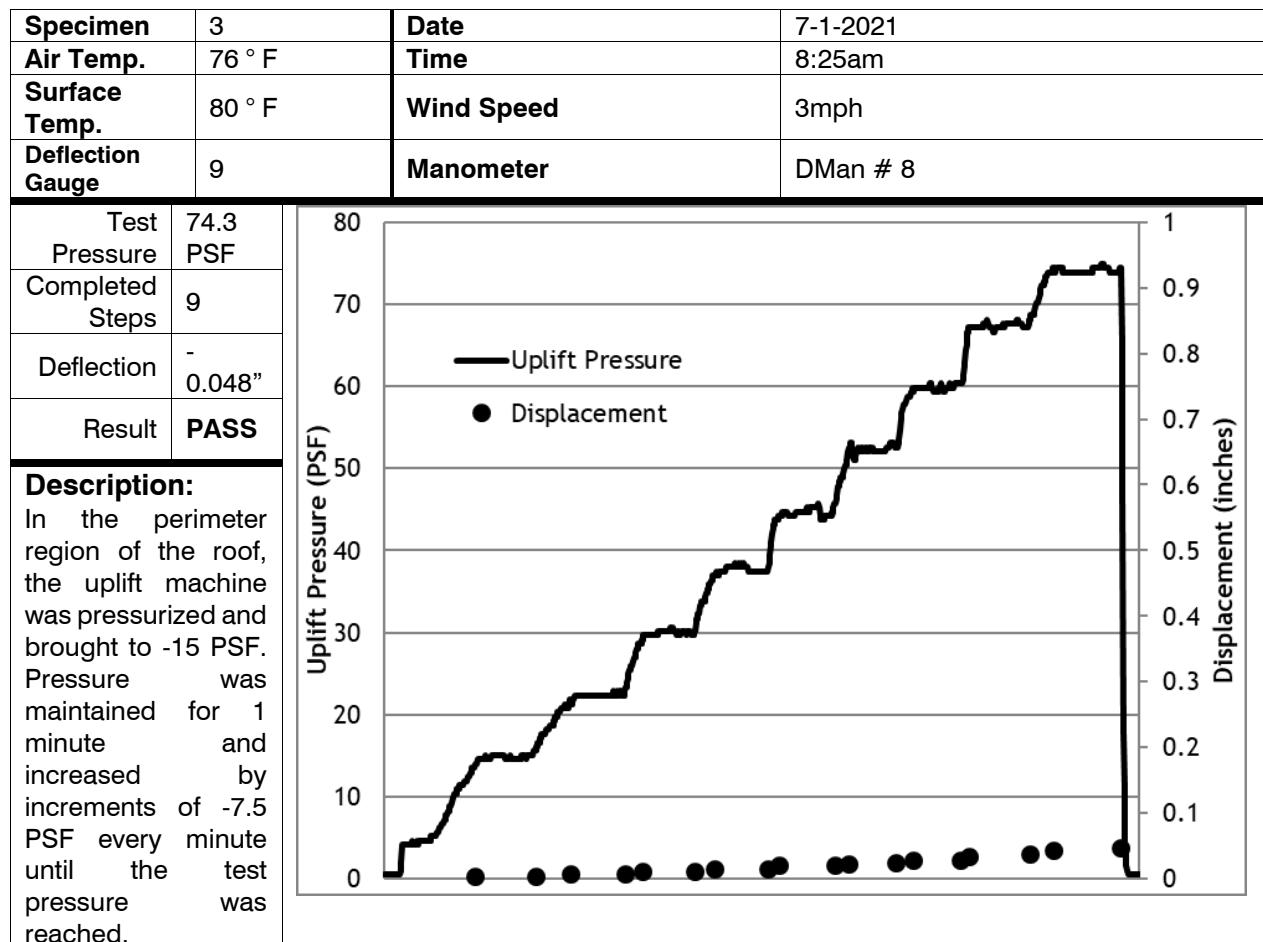


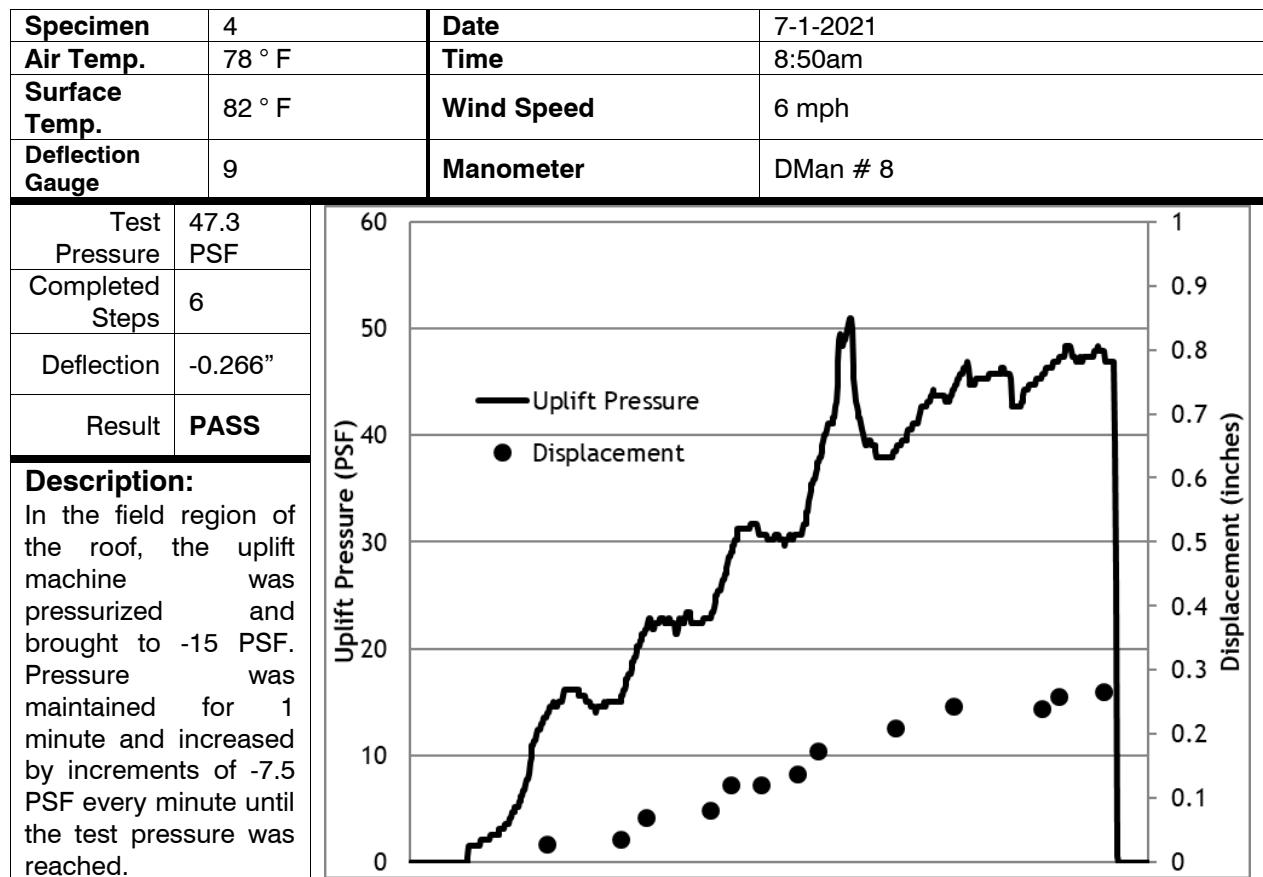
# TEST SUMMARY

<b>Specimen</b>	1	<b>Date</b>	7-1-2021
Air Temp.	73 ° F	Time	7:00am
Surface Temp.	71 ° F	Wind Speed	3mph
Deflection Gauge	9	Manometer	DMan # 8
Test Pressure	101.2 PSF	Uplift Pressure	120
Completed Steps	13	Displacement	1
Deflection	-0.1195"	Uplift Pressure (PSF)	80
Result	PASS	Displacement (inches)	0.9
<b>Description:</b> In the corner region of the roof, the uplift machine was pressurized and brought to -15 PSF. Pressure was maintained for 1 minute and increased by increments of -7.5 PSF every minute until the test pressure was reached.		0	0.8
0	0	0.7	0.6
0	0	0.5	0.4
0	0	0.4	0.3
0	0	0.3	0.2
0	0	0.2	0.1
0	0	0.1	0

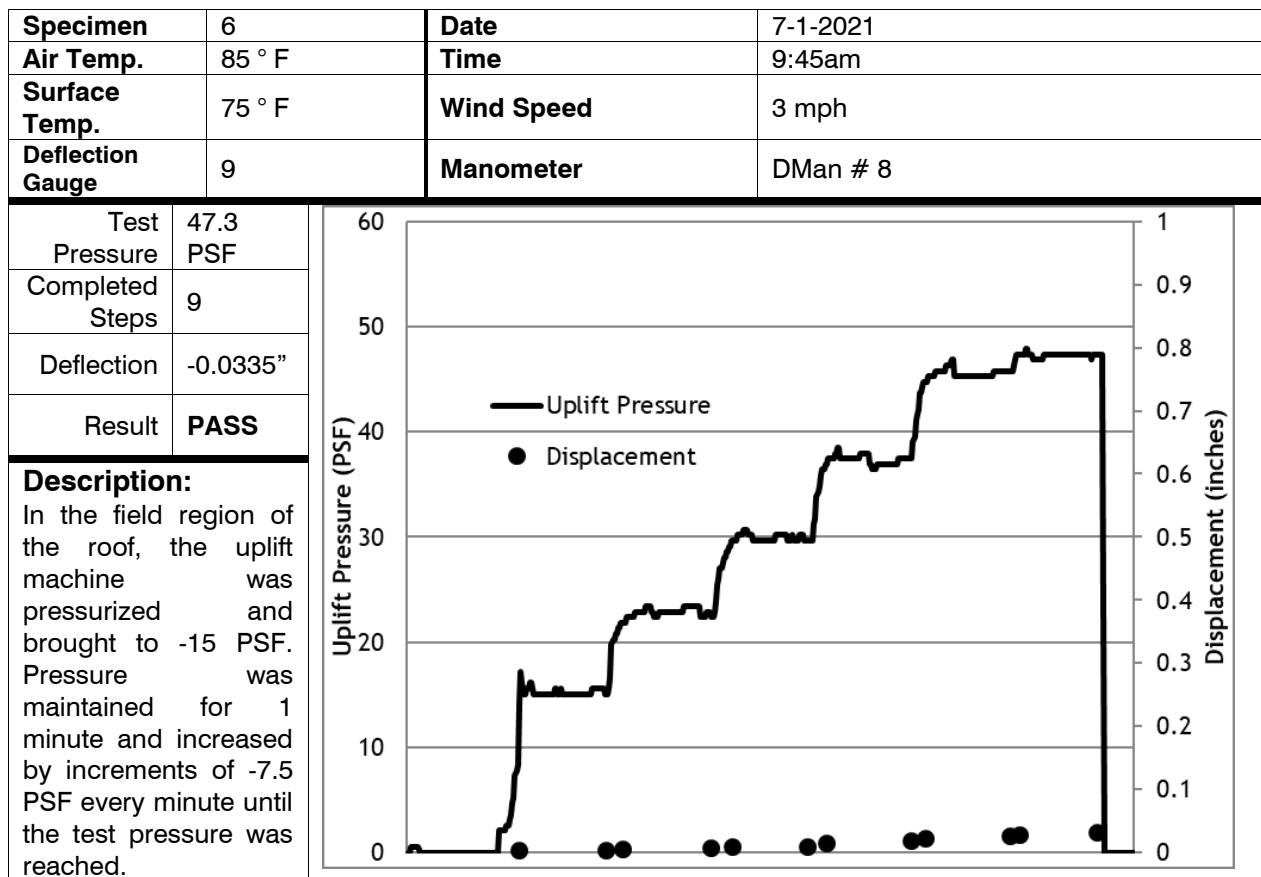


<b>Specimen</b>	2	<b>Date</b>	7-1-2021
<b>Air Temp.</b>	74 ° F	<b>Time</b>	7:45am
<b>Surface Temp.</b>	73 ° F	<b>Wind Speed</b>	3mph
<b>Deflection Gauge</b>	9	<b>Manometer</b>	DMan # 8
<b>Test Pressure</b>	47.3 PSF	<b>Uplift Pressure (PSF)</b>	<b>Displacement (inches)</b>
Completed Steps	6		
Deflection	-0.04"		
Result	<b>PASS</b>		
<b>Description:</b>	<p>In the field region of the roof, the uplift machine was pressurized and brought to -15 PSF. Pressure was maintained for 1 minute and increased by increments of -7.5 PSF every minute until the test pressure was reached.</p>		
			





<b>Specimen</b>	5	<b>Date</b>	7-1-2021
<b>Air Temp.</b>	80 ° F	<b>Time</b>	9:15am
<b>Surface Temp.</b>	75 ° F	<b>Wind Speed</b>	3 mph
<b>Deflection Gauge</b>	9	<b>Manometer</b>	DMan # 8
<b>Test Pressure</b>	74.3 PSF	<b>Uplift Pressure</b>	1
<b>Completed Steps</b>	9		0.9
<b>Deflection</b>	-0.076"	<b>Displacement</b>	0.8
<b>Result</b>	<b>PASS</b>		0.7
<b>Description:</b> In the perimeter region of the roof, the uplift machine was pressurized and brought to -15 PSF. Pressure was maintained for 1 minute and increased by increments of -7.5 PSF every minute until the test pressure was reached.			





# PHOTOGRAPHS

ASTM E907 testing being performed on specimen 2		
<b>1</b>	<b>Specimen 2</b> 7.1.2021	
ASTM E907 testing being performed on specimen 3		
<b>2</b>	<b>Specimen 3</b> 7.1.2021	
ASTM E907 testing being performed on specimen 4		
<b>3</b>	<b>Specimen 4</b> 7.1.2021	

ASTM E907 testing being performed on specimen 5

**4**

**Specimen 5  
7.1.2021**





# KEYED PLANS



Plan courtesy of BSA

- # █ Passed ASTM E907 Uplift Testing
- # █

NOTES:  
 1. POSITIVE PRESSURES SIGNIFY ACTING TOWARD THE SURFACE.  
 2. NEGATIVE PRESSURES SIGNIFY PRESSURE ACTING AWAY FROM THE SURFACE.  
 3. "a" = WIDTH OF EDGE ZONE = 8.9 FT.



ZONE 1

ZONE 2

ZONE 3

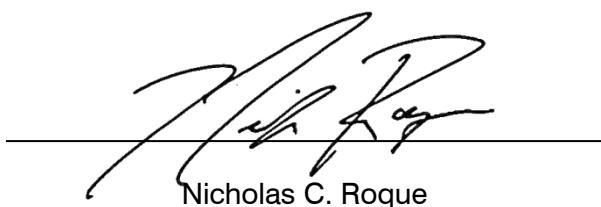
**END OF REPORT**

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Written By:



Nicholas C. Roque

Reviewed By:



Brandon Schattel

Approved By:



Kyle Colombo

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