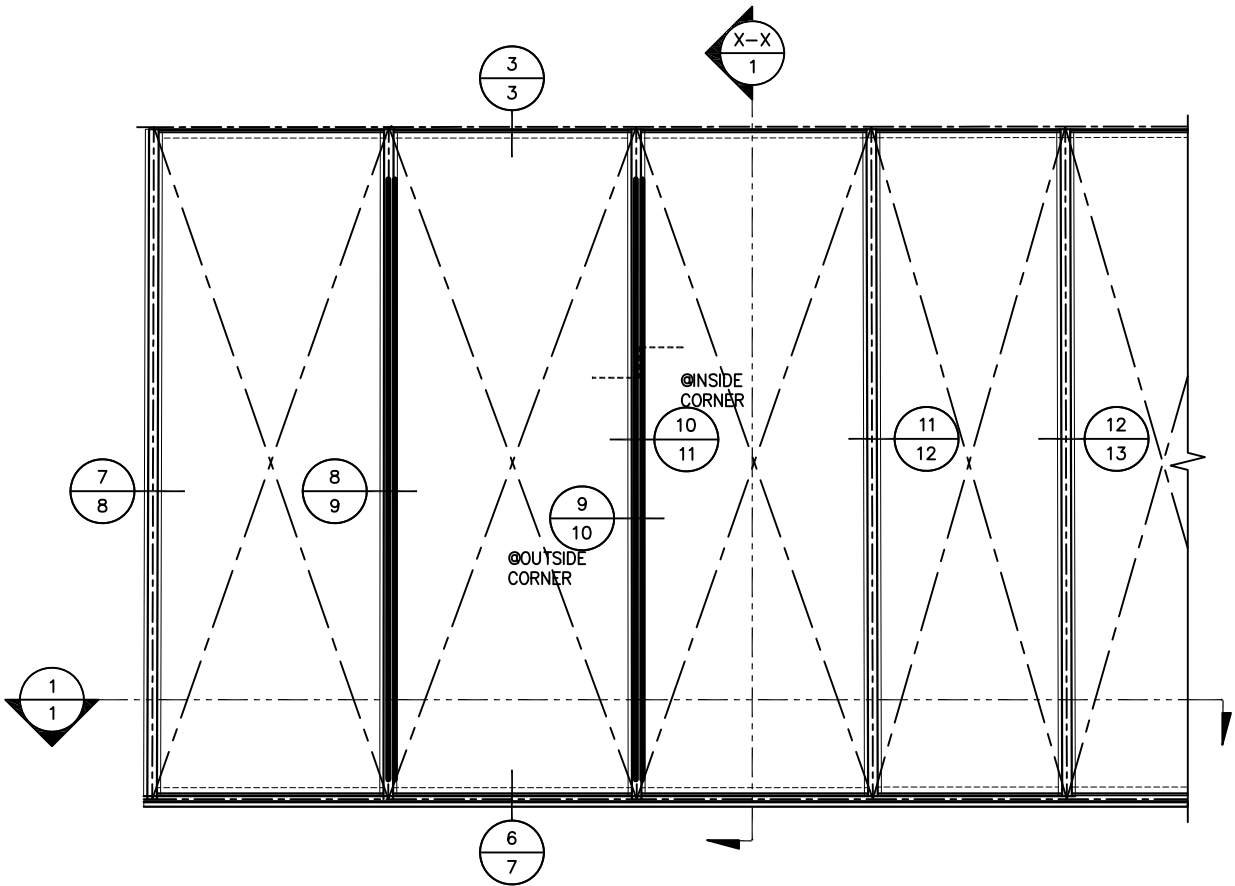


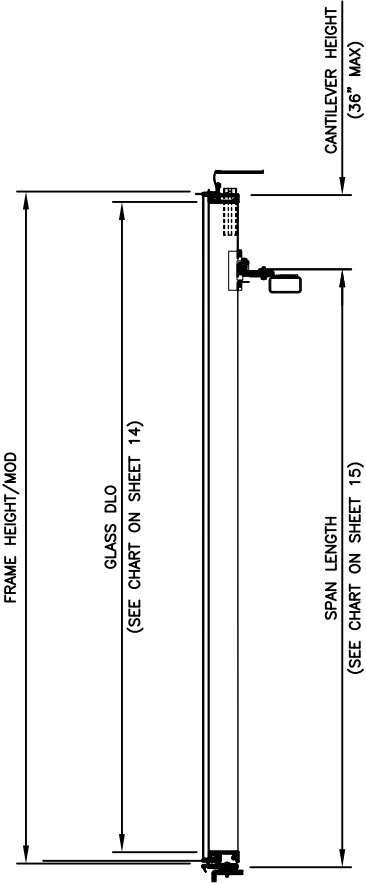
GENERAL NOTES:

1. THIS PRODUCT MEETS ALL THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE, FOR USE OUTSIDE OF THE HVHZ.
2. THIS SYSTEM HAS BEEN TESTED PER TAS 201, 202, AND 203 FOR LARGE AND SMALL MISSILE IMPACT RESISTANCE. SHUTTERS ARE NOT REQUIRED.
3. DESIGN LOADS MUST BE CALCULATED BY A PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT. THE (ASD) DESIGN PRESSURE CANNOT EXCEED THE PRESSURES LISTED IN THE CHARTS ON SHEETS 14 & 15.
4. ANCHORS SHALL BE AS LISTED AND SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT IN BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
5. CODE REQUIREMENTS FOR SAFE GUARDS MUST BE OBSERVED.
6. DESIGN PRESSURES IN THE GLASS CHART ON SHEET 14 ARE LIMITED BY TESTED PRESSURES AND ASTM E 1300-16.
7. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH DISSIMILAR MATERIALS SHALL BE SEPARATED TO PREVENT GALVANIC REACTIONS PER FBC REQUIREMENTS
8. THE INSTALLATION DETAILS SHOWN IN THIS APPROVAL ARE GENERIC. SITE SPECIFIC DETAILS THAT VARY FROM THE CONDITIONS SHOWN MUST BE APPROVED BY A FLORIDA LICENSED ENGINEER OR ARCHITECT AND THE LOCAL BUILDING OFFICIAL.

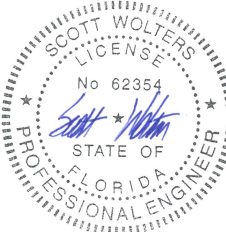
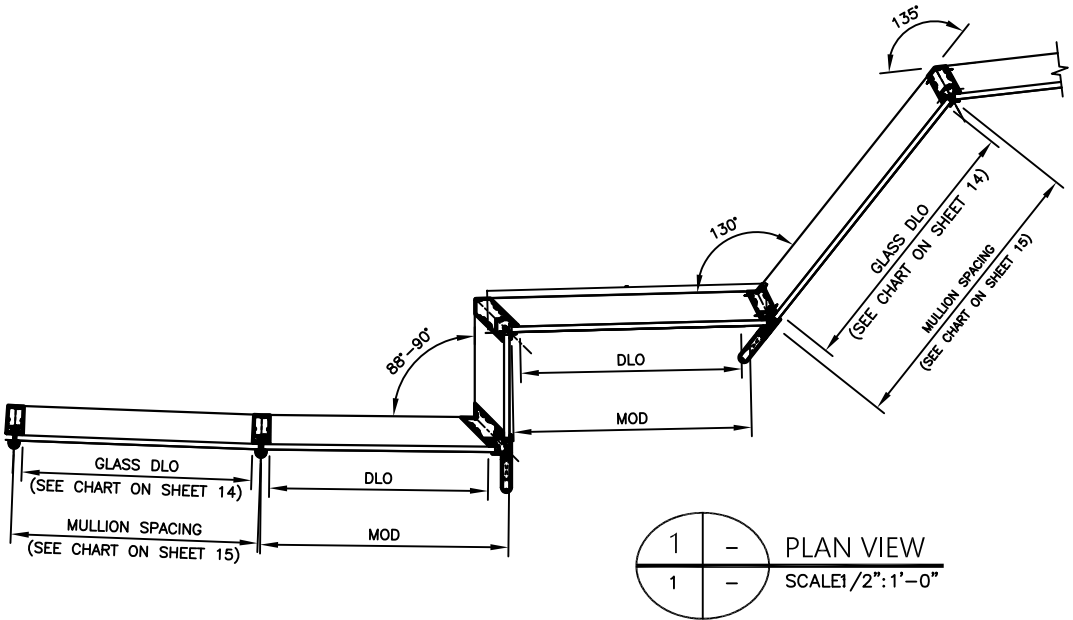
SINGLE SPAN ELEVATIONS



EXTERIOR VIEW
(NOT TO SCALE)



WALL SECTION X-X



Digitally signed
by Scott Wolters
Date: 2025.01.06
19:23:23 -05'00'



SEAL:
SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

DWG: UCW8000i
SHEET: 1/27

UCW8000i SERIES CURTAINWALL SYSTEM (IMI/SMI)



550 WEST CYPRESS ROAD, SUITE 305
FORT LAUDERDALE, FL 33309

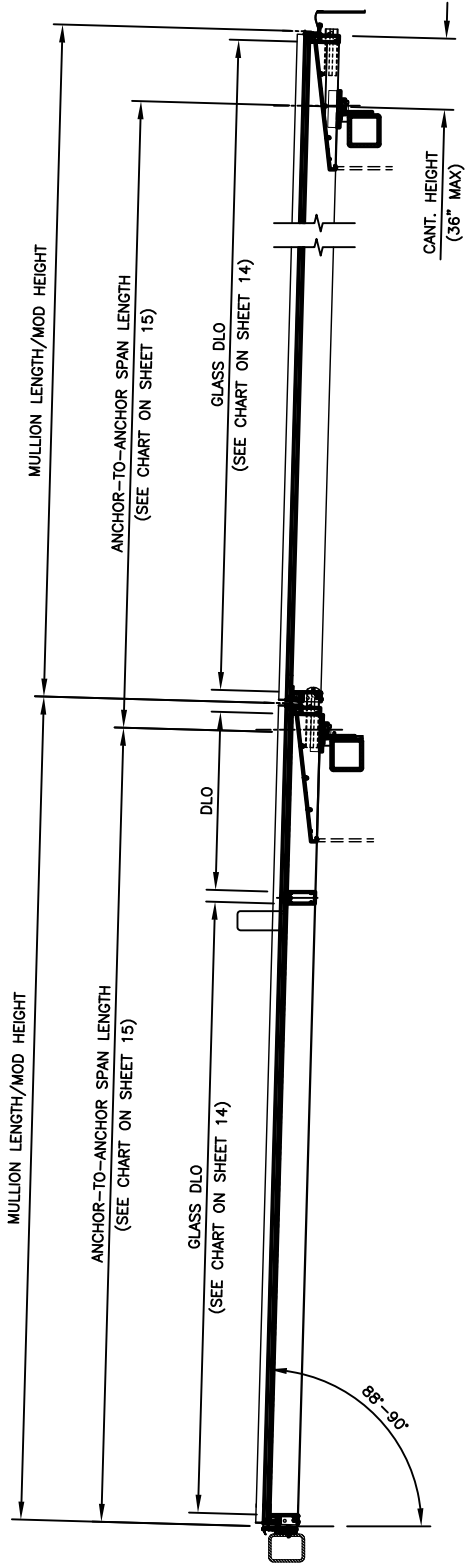
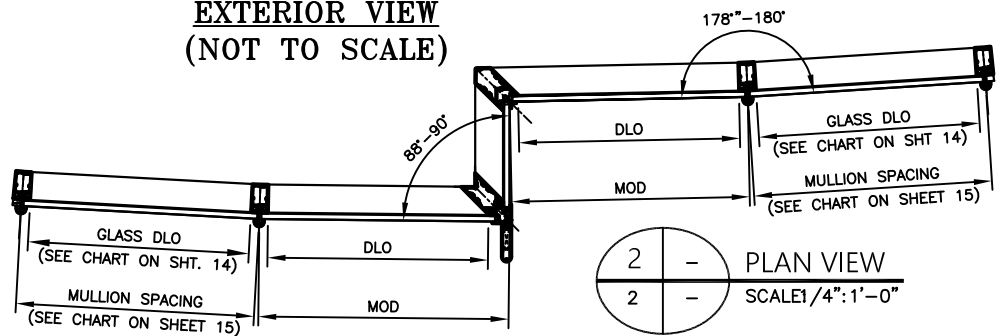
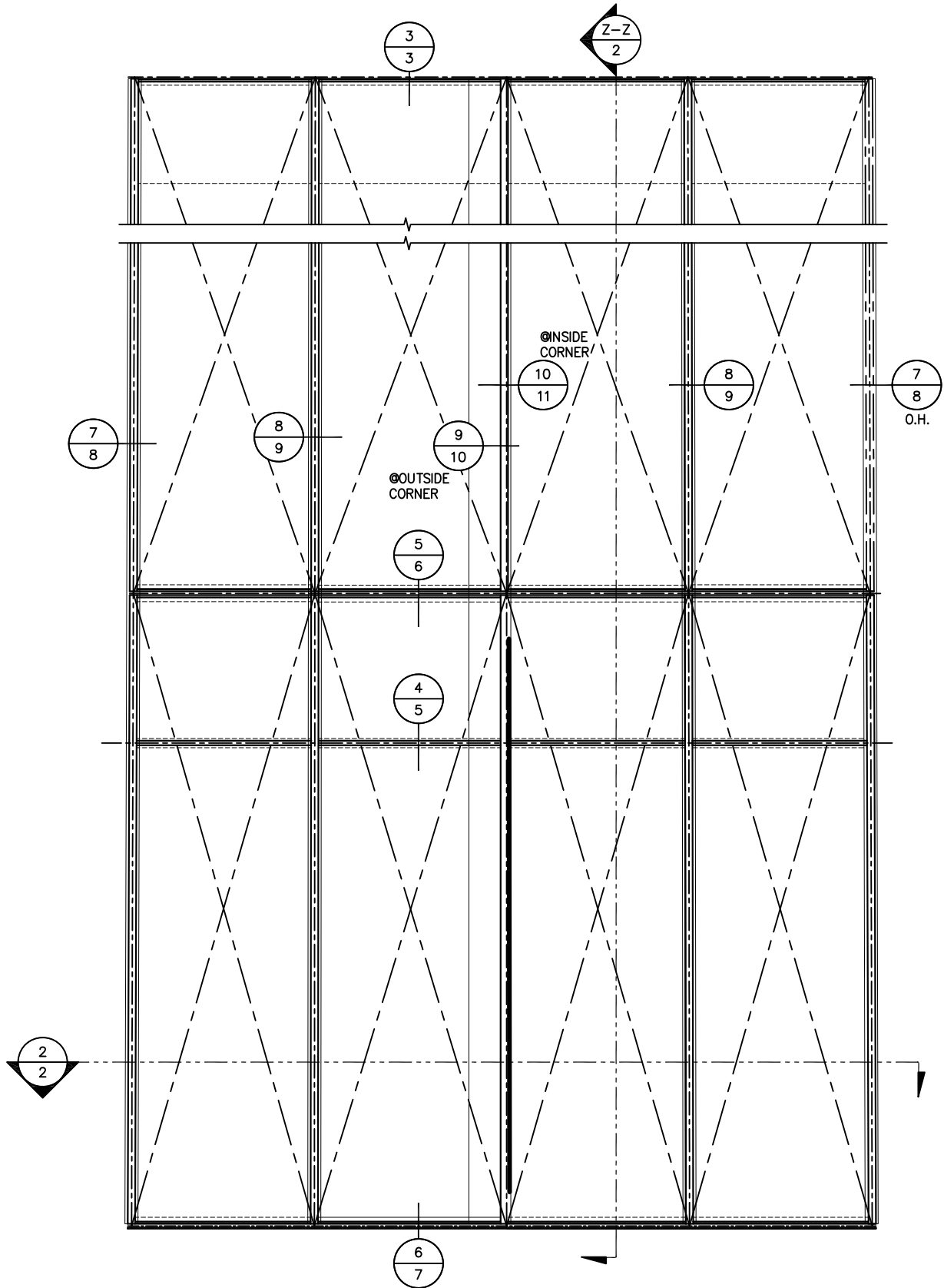
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DATE

MULTI-SPAN ELEVATIONS



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DWG: UCW8000i
SHEET: 2/27

UCW8000i SERIES CURTAINWALL SYSTEM (IMI/SMI)



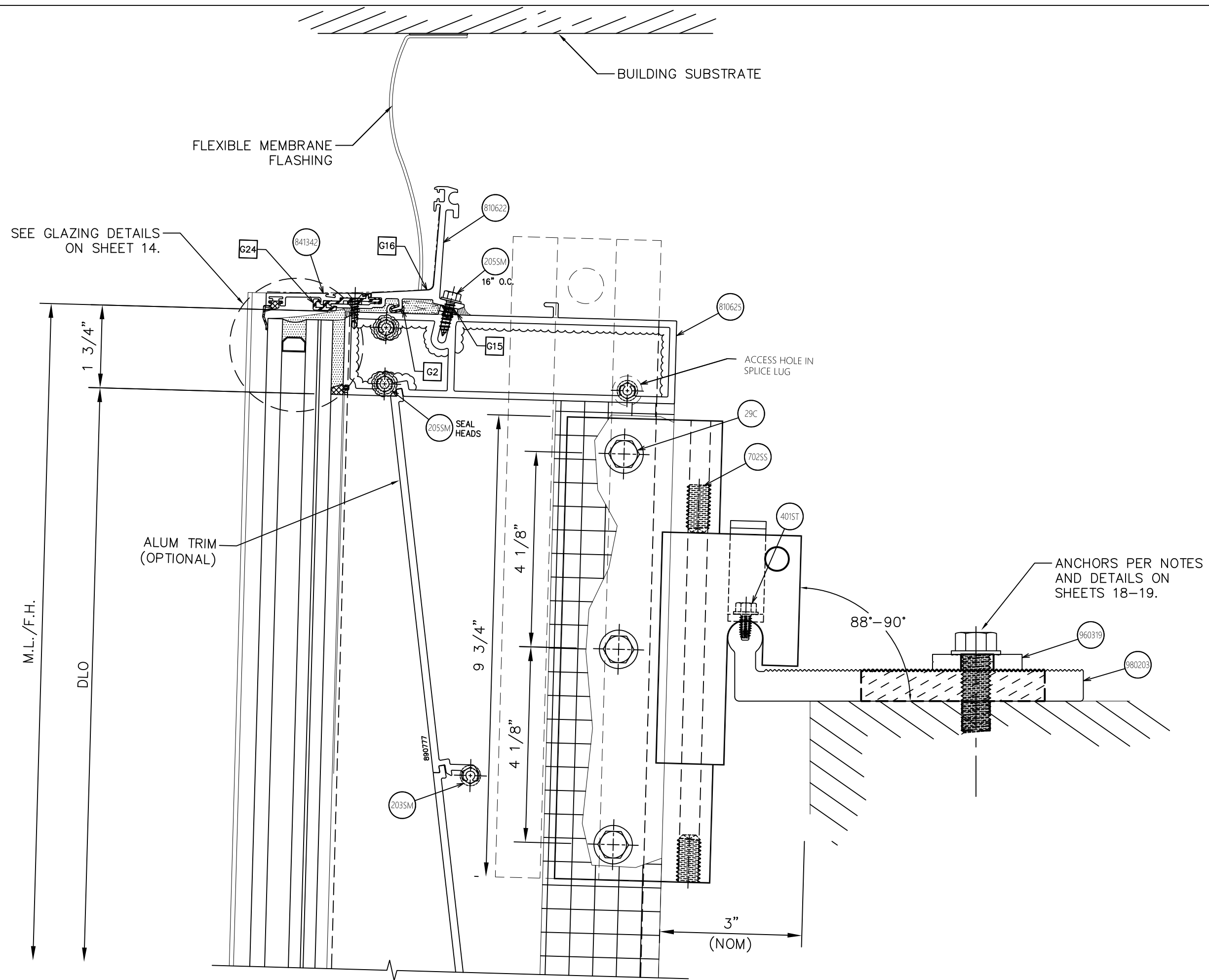
550 WEST CYPRESS ROAD, SUITE 305
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REV.#	PRINTS ISSUED FOR	DATE
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HEAD DETAIL

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UCW8000i SERIES CURTAINWALL SYSTEM (IMI/SMI)		12/20/24	
HARMON®		REV.#	
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PRINTS ISSUED FOR		REV.#	
DWG: UCW8000i		SHEET: 3/27	

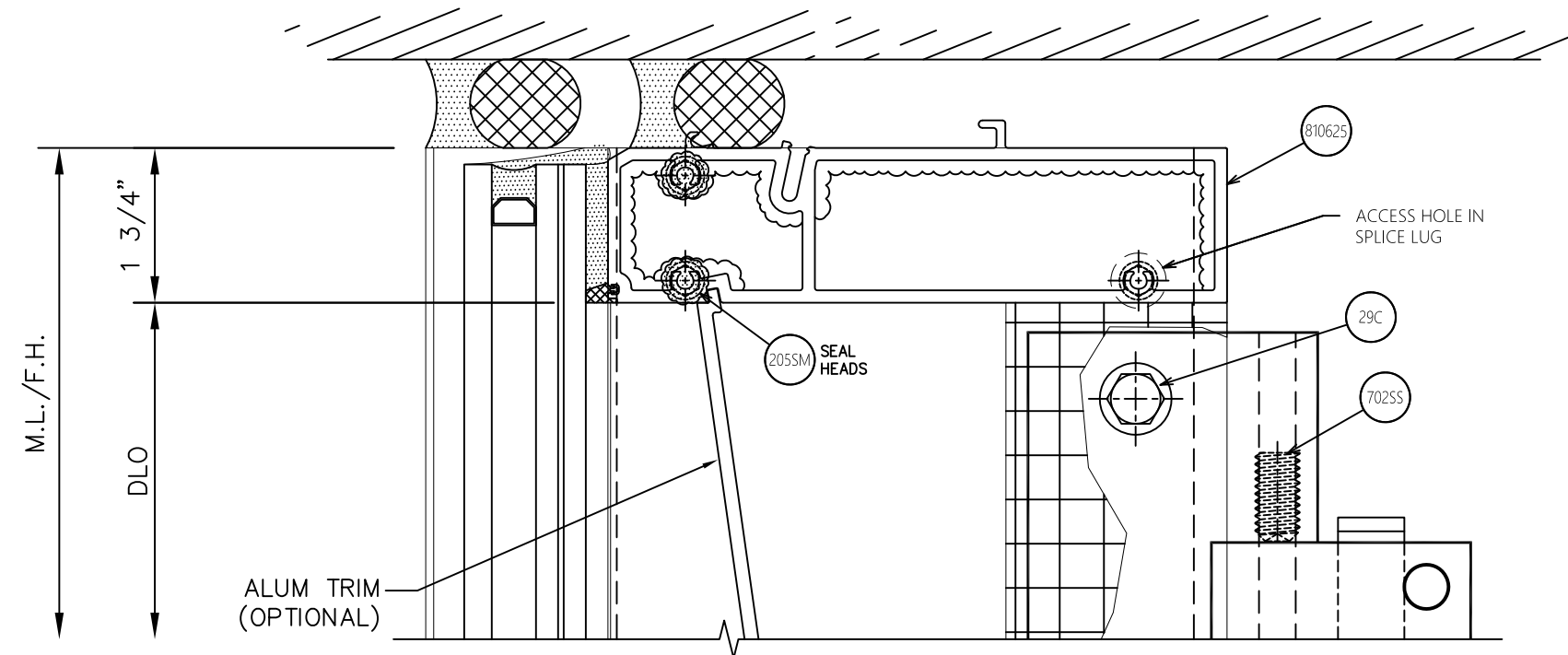
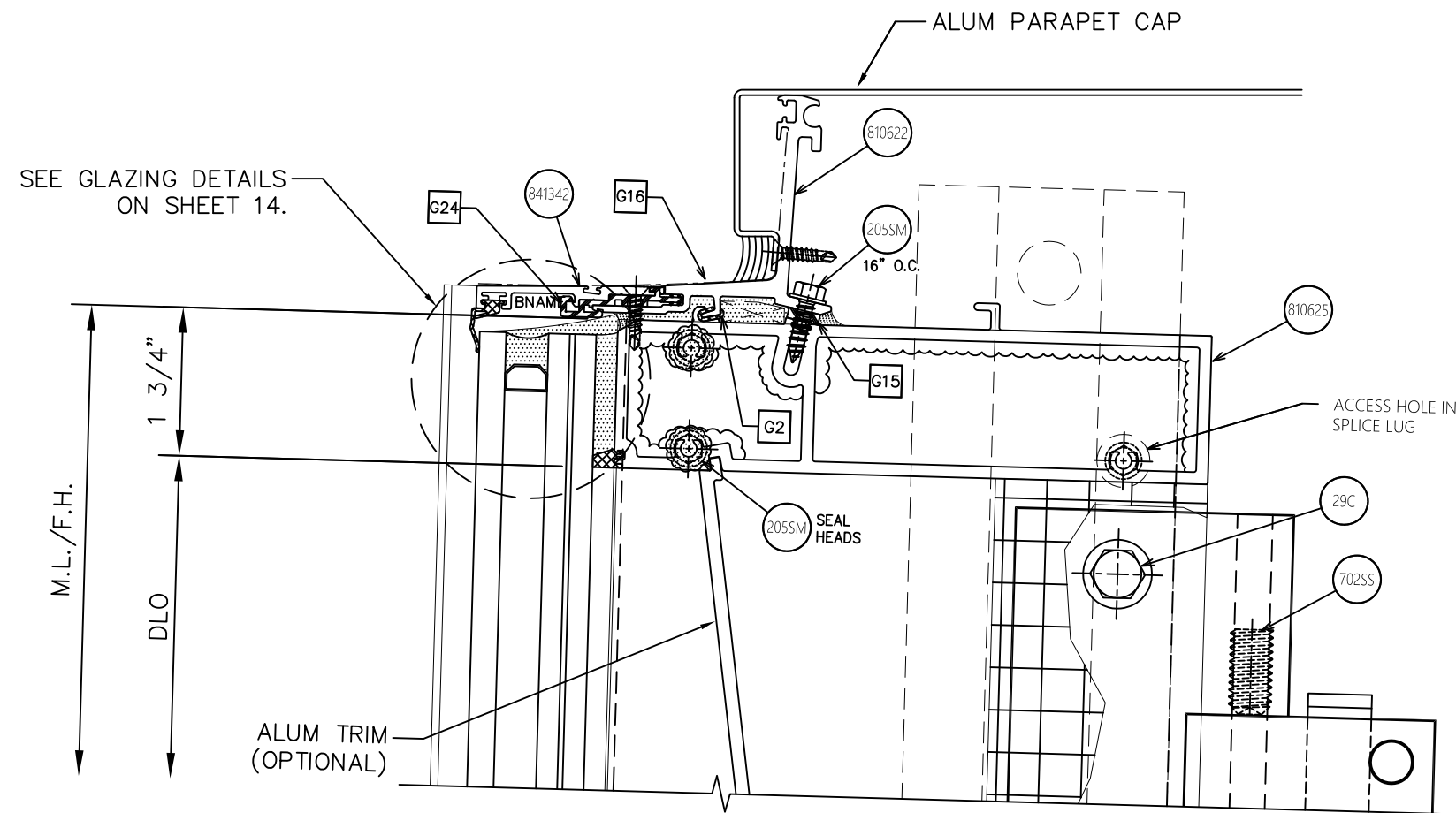
SEAL:

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SCOTT WOLTERS
LICENSED PROFESSIONAL ENGINEER
No 62354
STATE OF FLORIDA
10/6/25

OPTIONAL HEAD DETAILS



SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
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UCW8000i

4/27

The logo for Harmon, featuring a stylized red and blue graphic element resembling a mountain or a stylized 'H' on the left, followed by the word "HARMON" in a bold, blue, sans-serif font. A small registered trademark symbol (®) is located at the top right of the word.

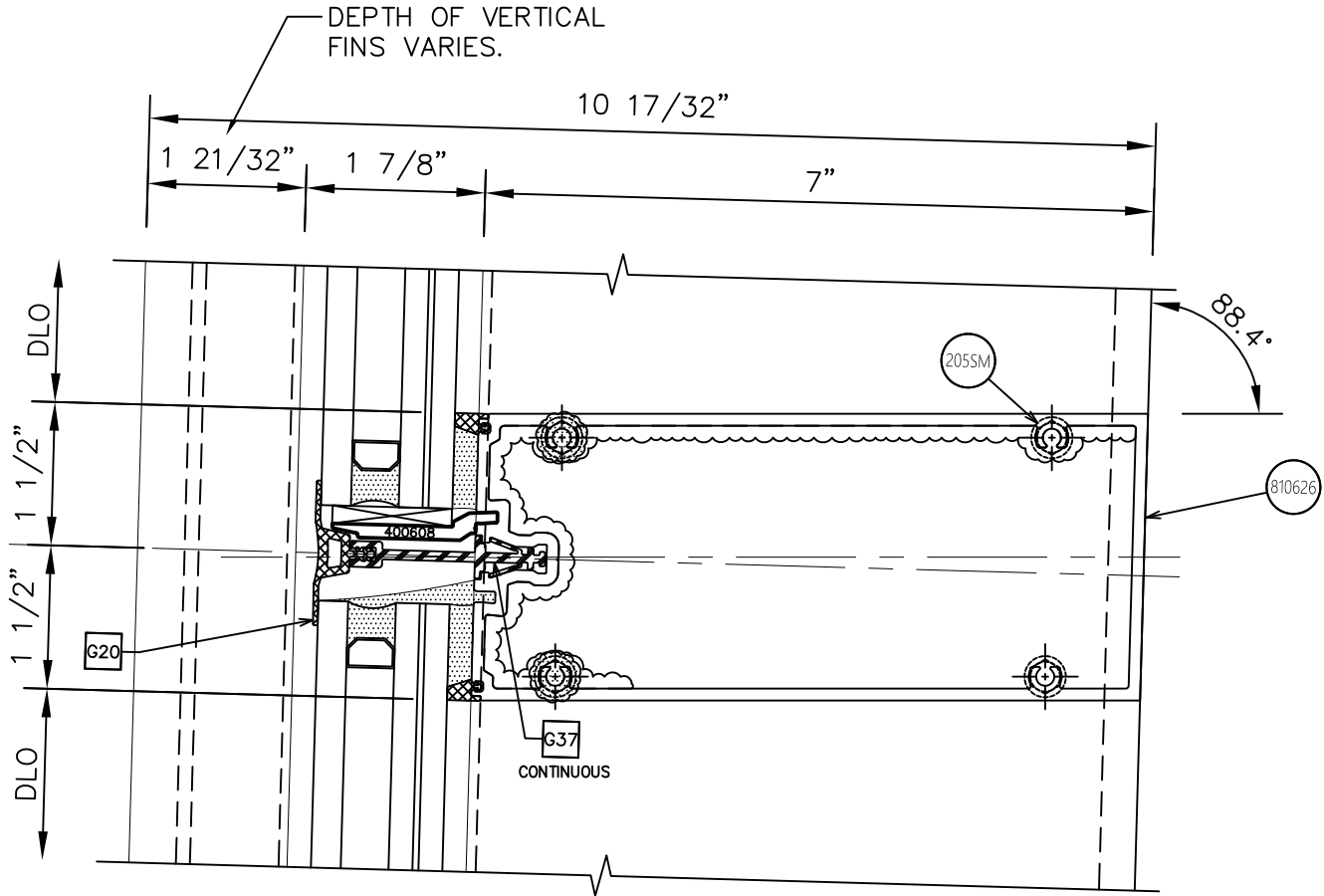
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REV.#	DATE
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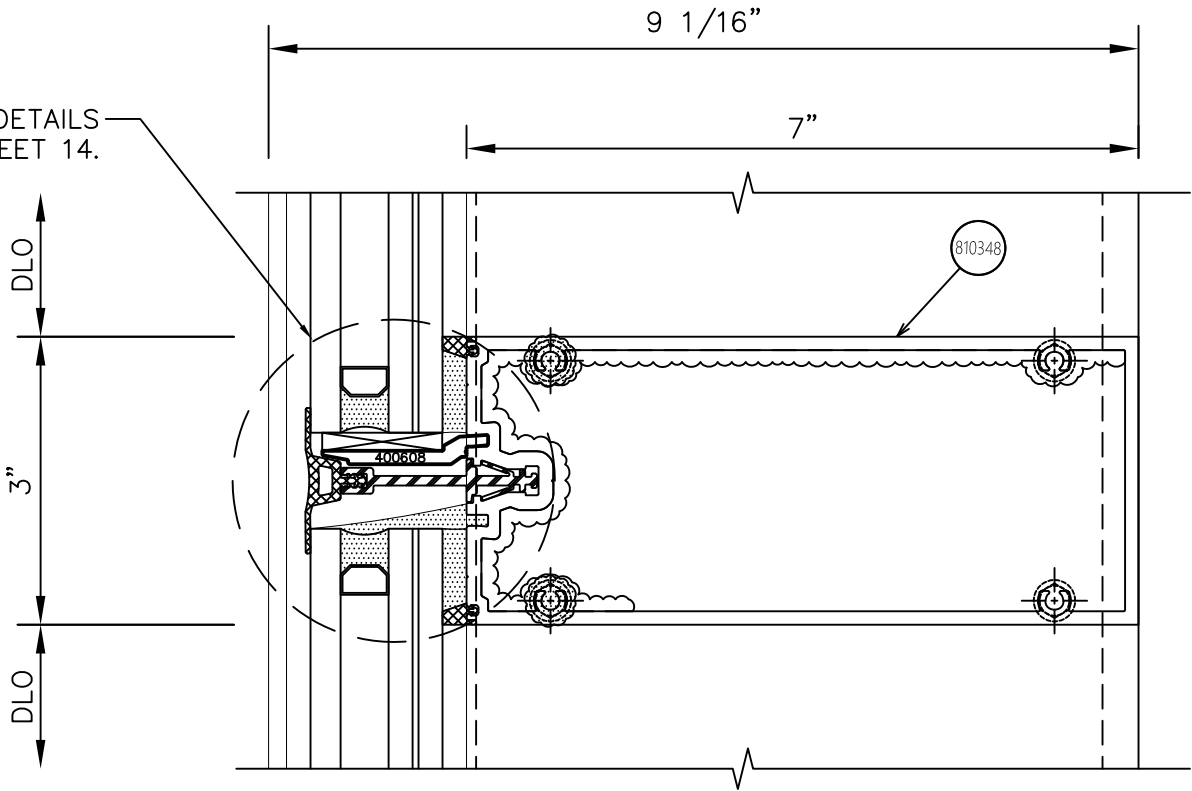
HORIZONTAL DETAILS

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SEE GLAZING DETAILS
ON SHEET 14.



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UCW8000i SERIES CURTAINWALL SYSTEM (LMI/SMI)

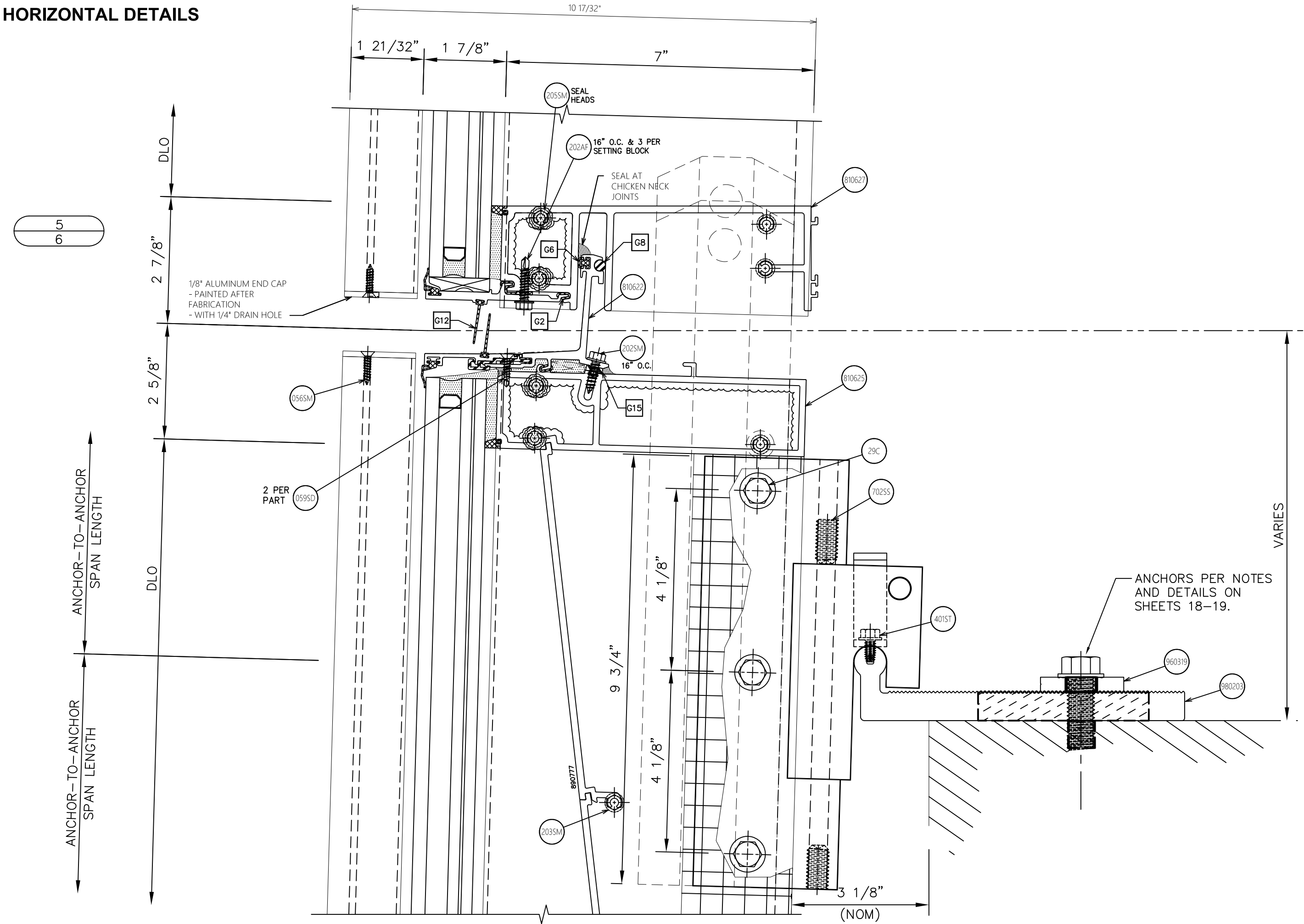
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HORIZONTAL DETAILS



UCW8000i SERIES CURTAINWALL SYSTEM (IMI/SMI)

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(COA# 27194)
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(561) 225-1962

DWG:

SHEET:

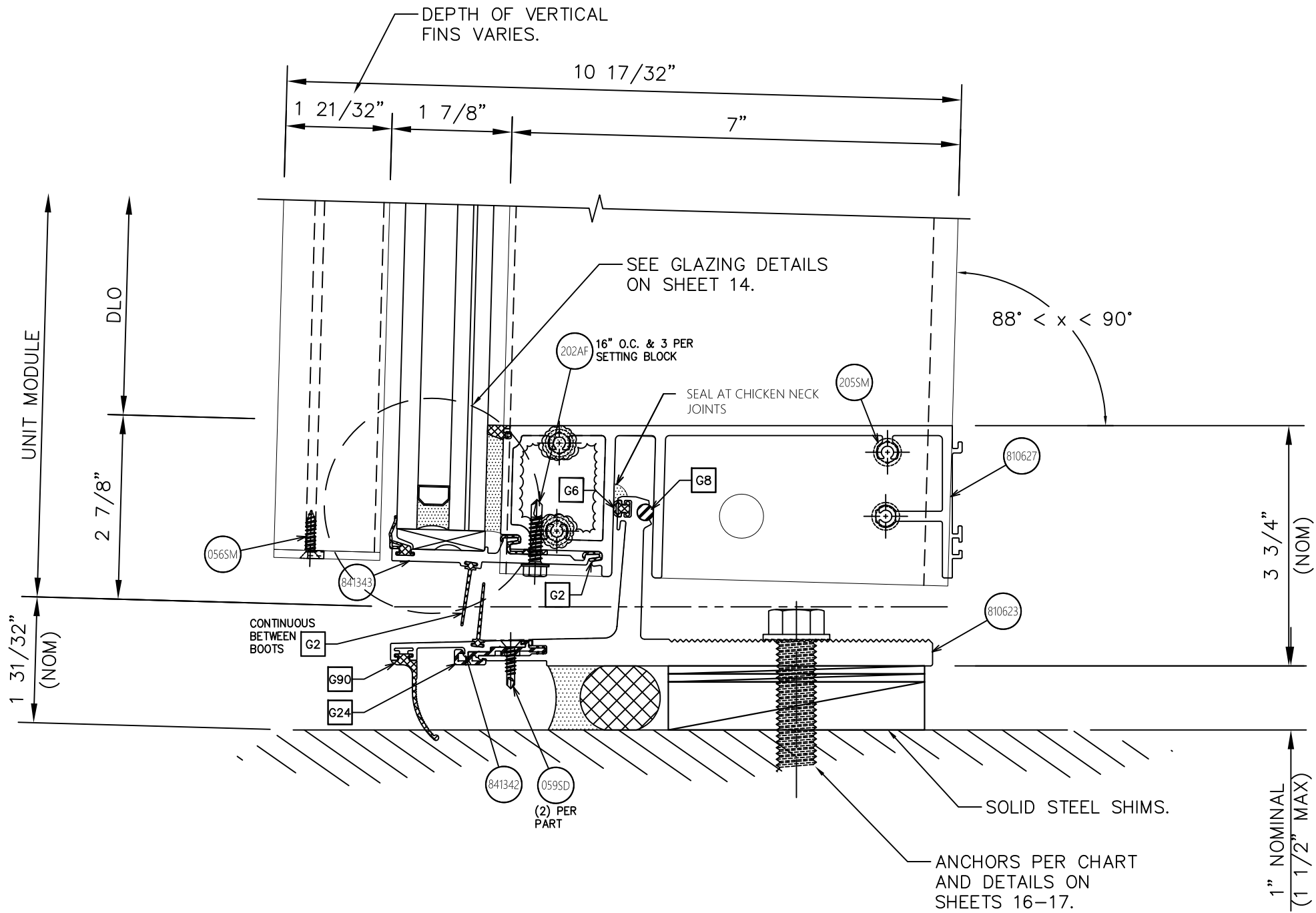
UCW8000i

6/27

SCOTT WOLTERS
No 62354
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/6/25

SILL DETAILS

6
7



SEAL:

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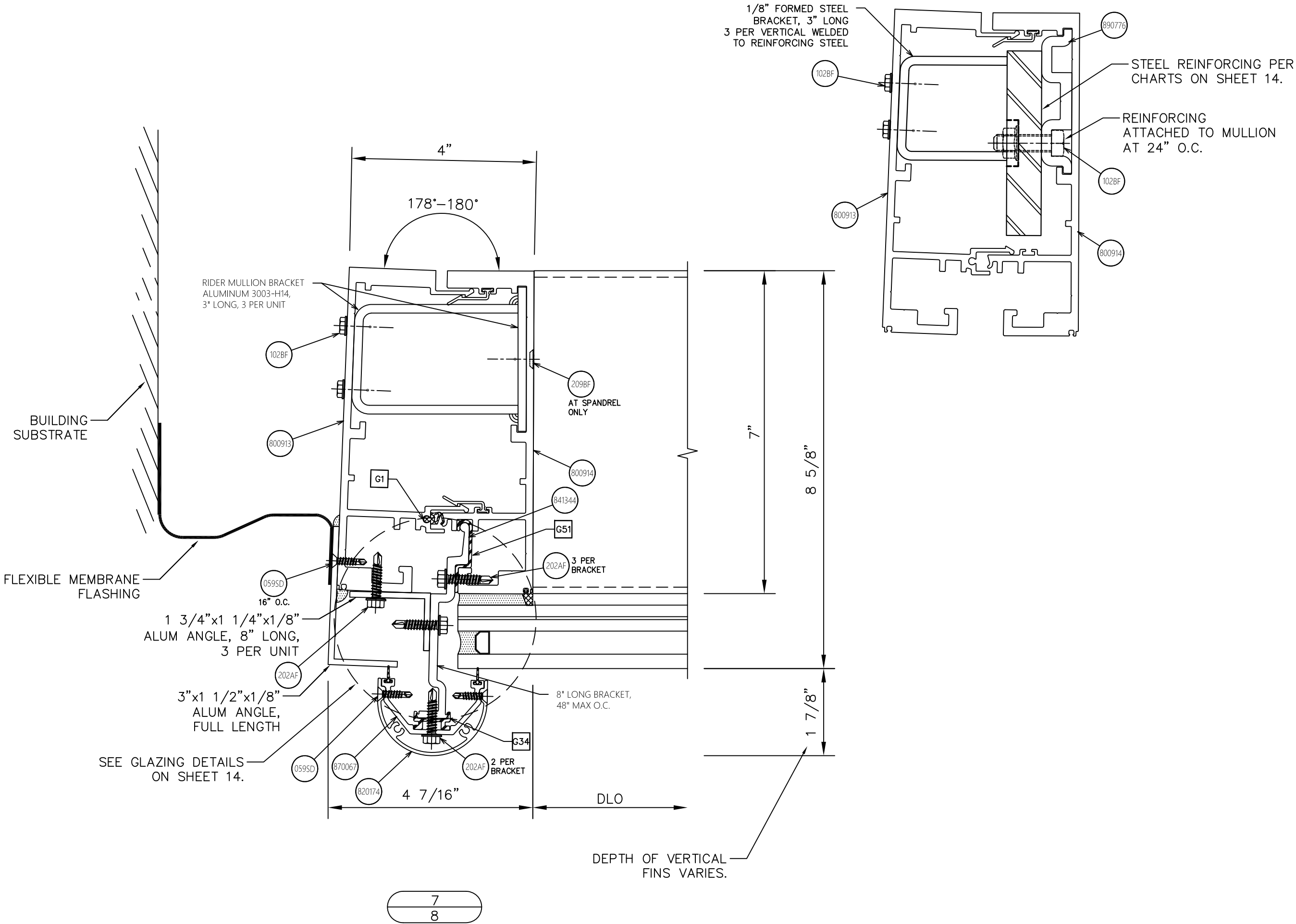
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JAMB DETAILS



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SHEET: 8/27		PRINTS ISSUED FOR	

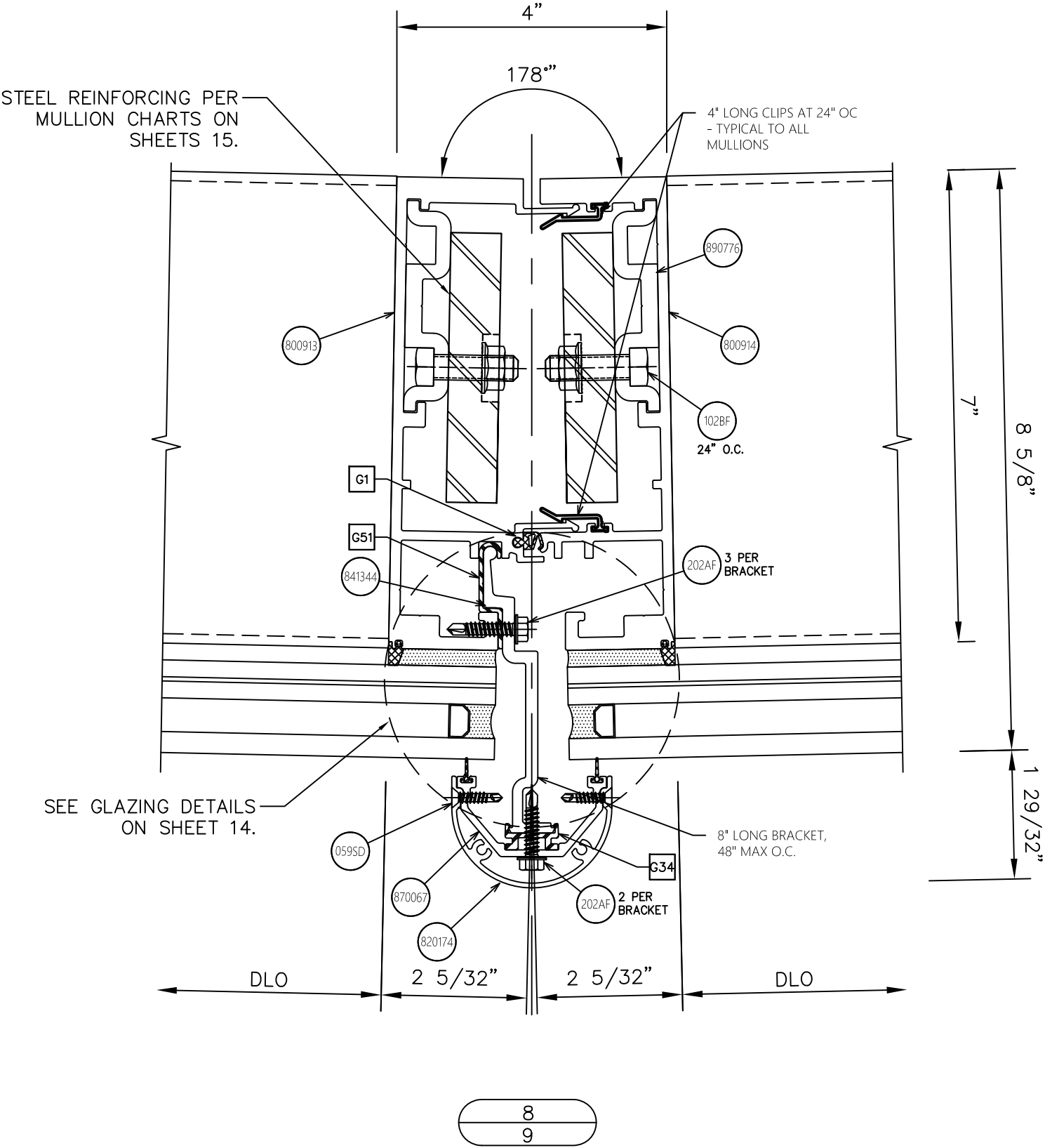
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No 62354
STATE OF FLORIDA
10/16/25

MULLION DETAILS



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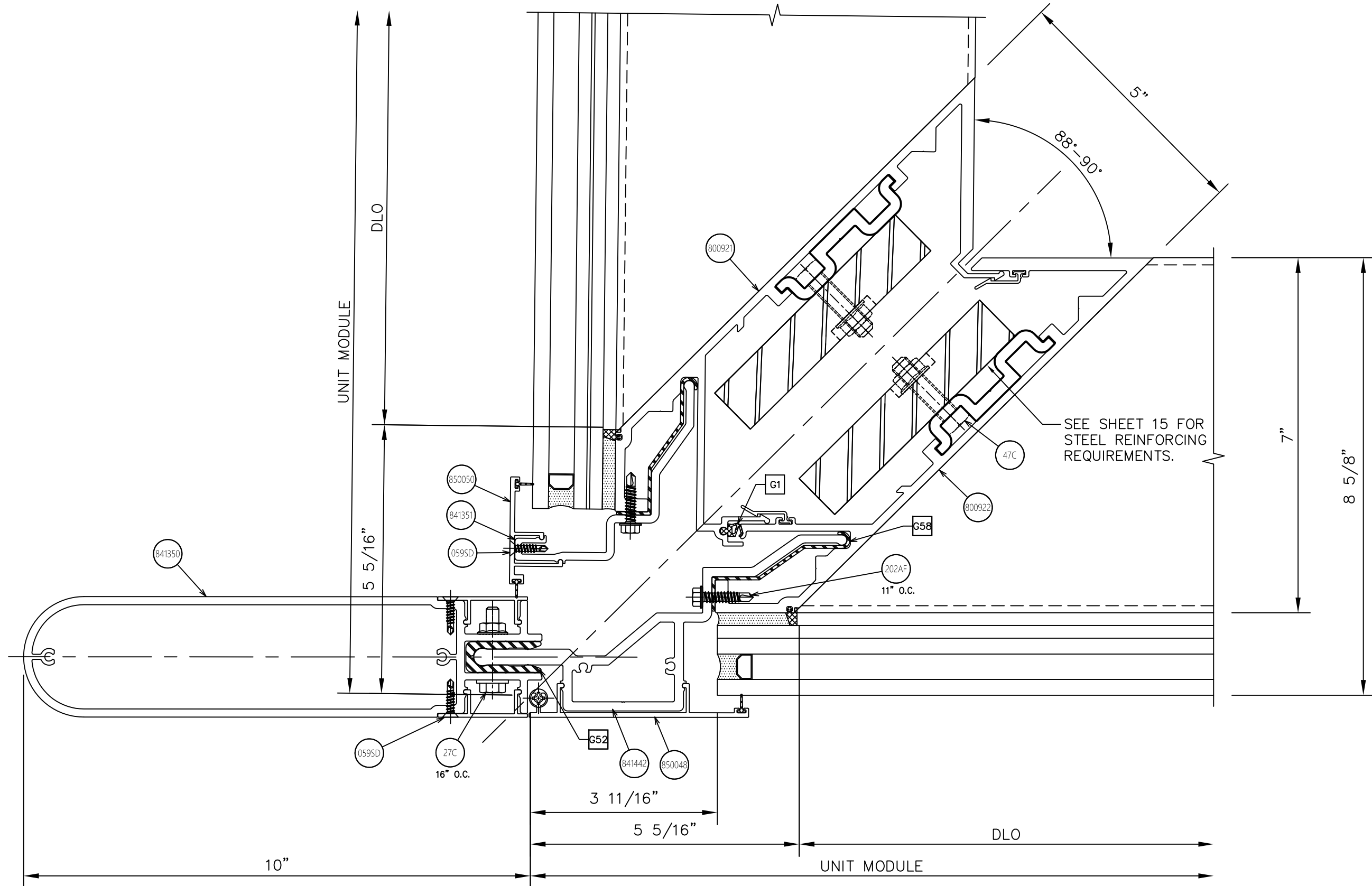
SCOTT WALTERS
FL PE# 62354
WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1962

DWG: UCW8000i

SHEET: 9/27

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CORNER MULLION DETAILS


$$\frac{9}{10}$$

SEAL:

SCOTT WOLTERS
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WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 334
(561) 225-1982

DWG:

UCW8000i

SHEET:

10/27

UCW8000i SERIES CURTAINWALL SYSTEM (LMI/SMI)



550 WEST CYPRESS ROAD, SUITE 305
FORT LAUDERDALE, FL 33309

PH: (954) 809-6500
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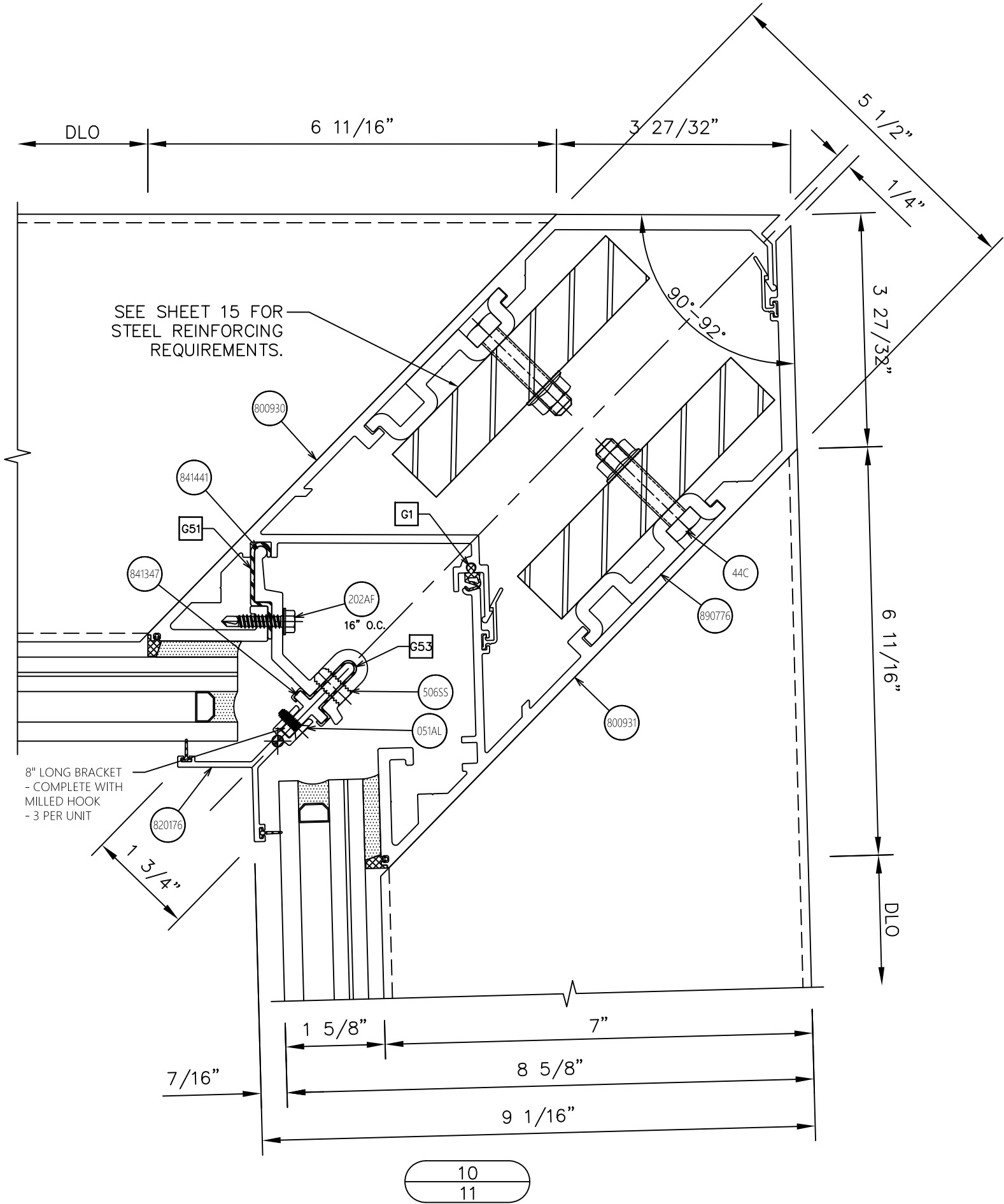
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CORNER MULLION DETAILS



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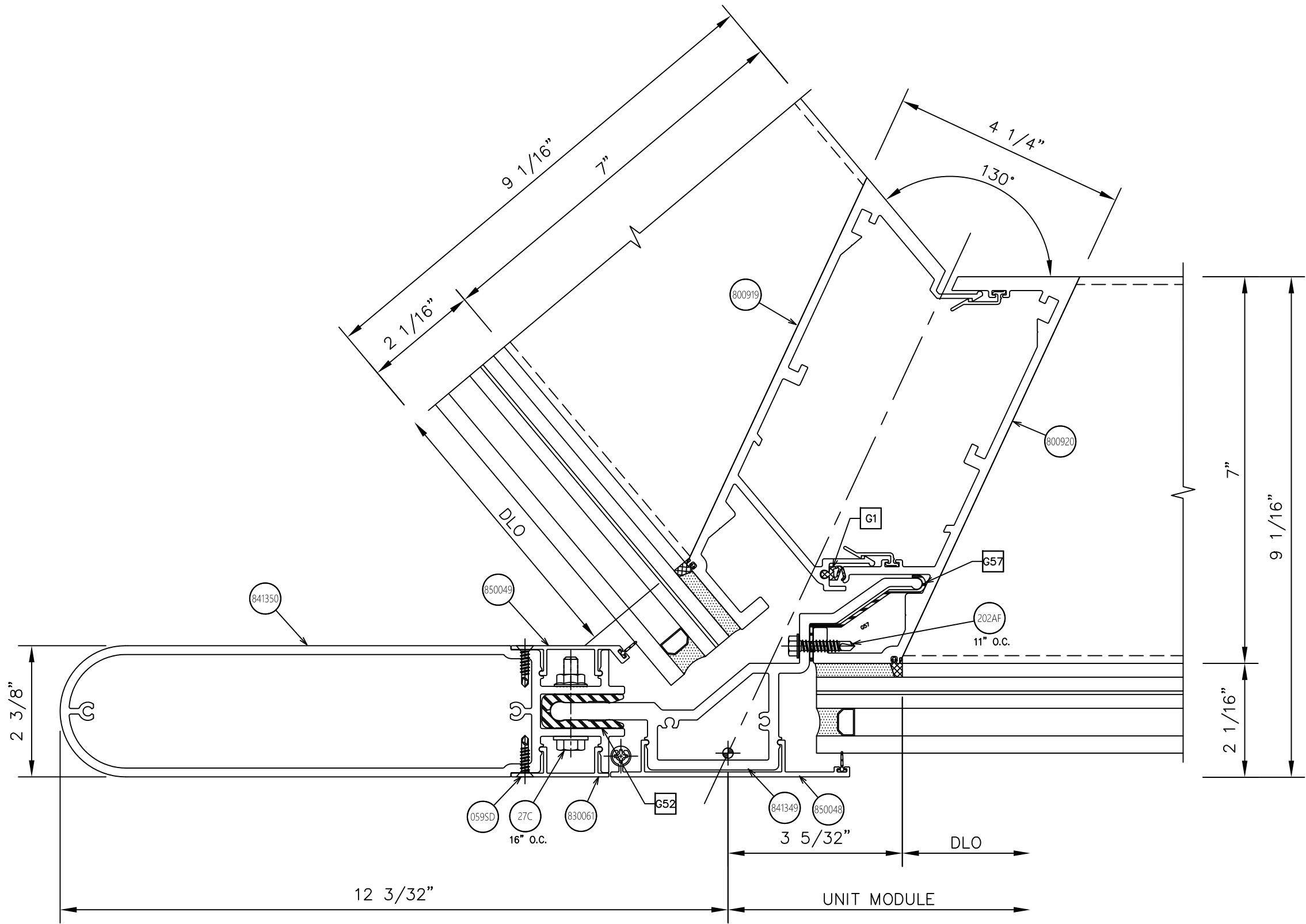
DWG: UCW8000i

SHEET: 11/27

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CORNER MULLION DETAILS

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SEAL:

SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1962

UCW8000i SERIES CURTAINWALL SYSTEM (IMI/SMI)

HARMON

550 WEST CYPRESS ROAD, SUITE 305
FORT LAUDERDALE, FL 33309

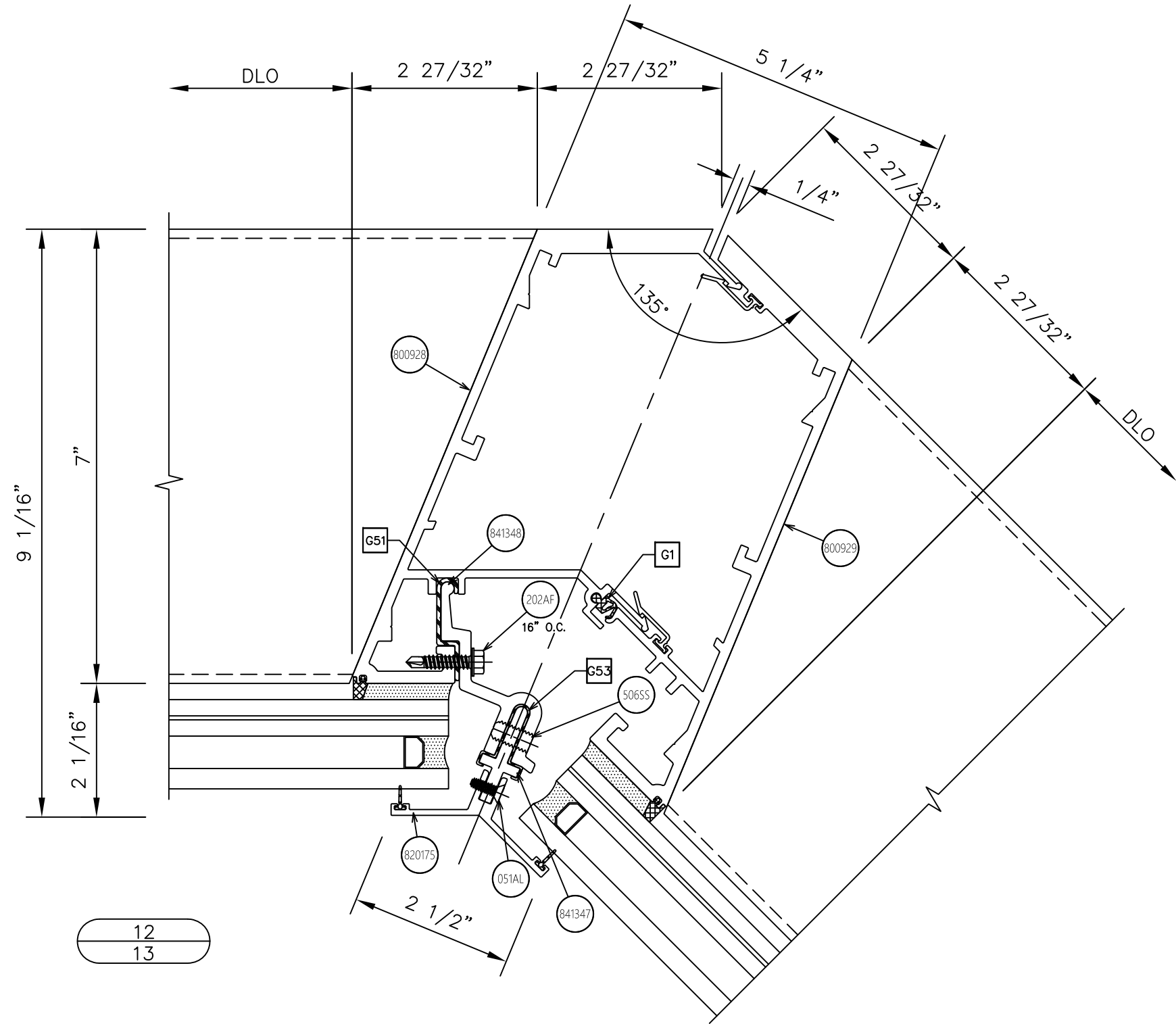
PH: (954) 809-6500
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DWG: UCW8000i

SHEET: 12/27

CORNER MULLION DETAILS



$$\frac{12}{13}$$

SEAL

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

DWG:	UCW8000i
SHEET:	13/27

UCW8000i SERIES CURTAINWALL SYSTEM (LMI/SMI)

 **HARMON®**

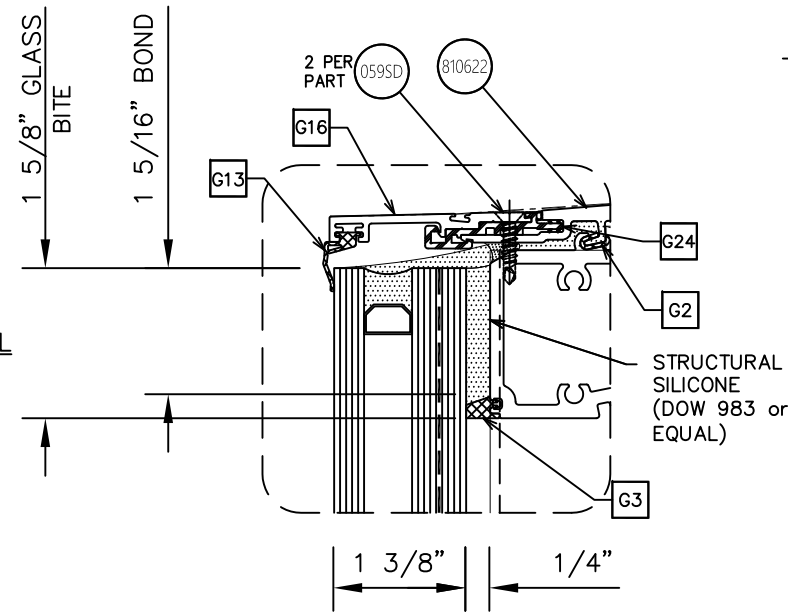
550 WEST CYPRESS ROAD, SUITE 305
FORT LAUDERDALE, FL 33309

PH: (954) 809-6500
WWW.HARMONINC.COM

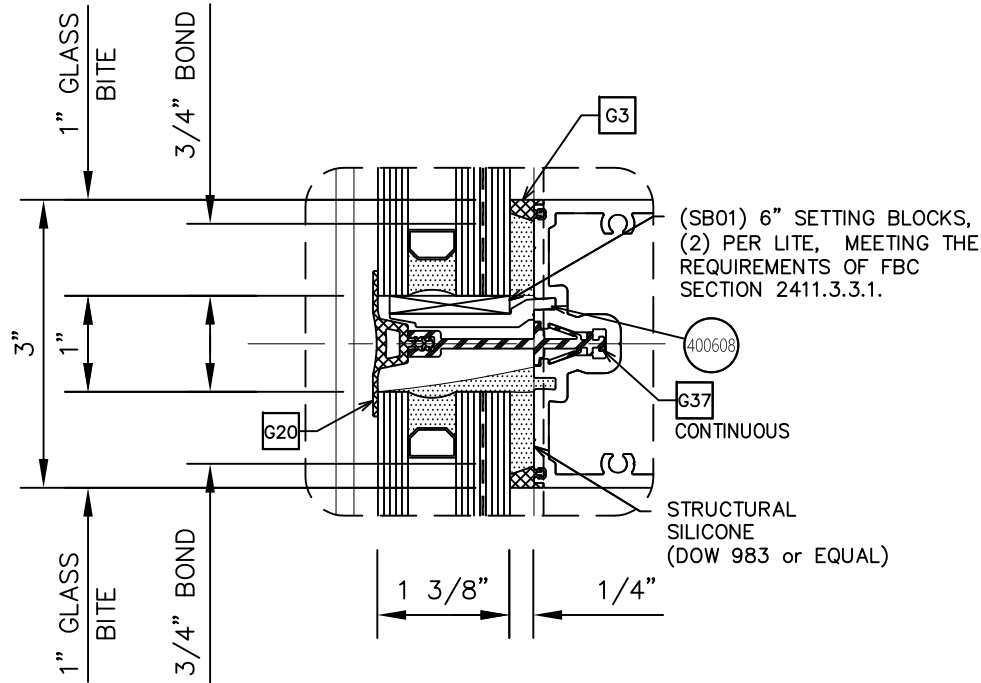
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1ST SUBMITTAL	—	12/20/24
PRINTS ISSUED FOR	REV.#	DATE

GLAZING DETAILS

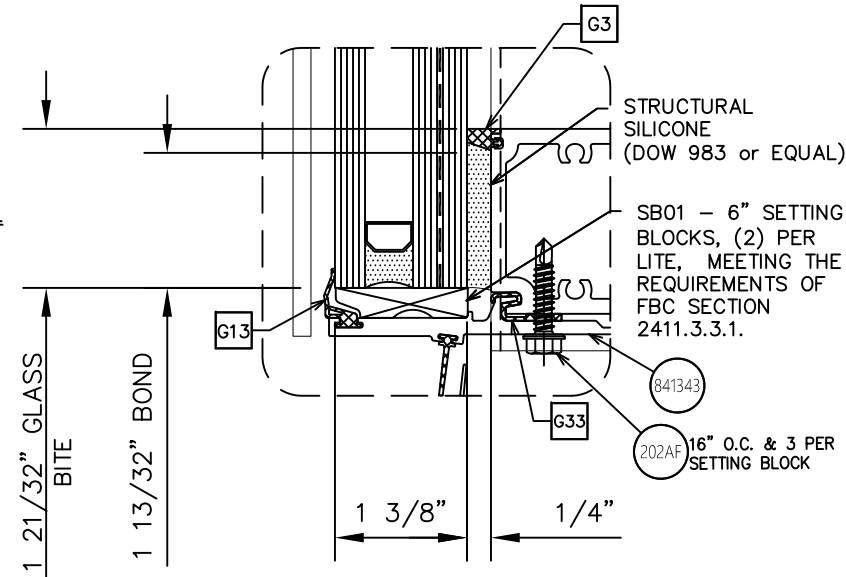
HEAD/STACK HORIZONTAL



HORIZONTAL



SILL/STACK HORIZONTAL



LARGE MISSILE GLASS TYPES:

GLASS TYPE GL-03: 1 3/8" INSULATED/LAMINATED
5/16" TEMPERED
1/2" AIR SPACE (ALUM SPACER-BLACK)
1/4" HEAT STRENGTHENED
0.100" SENTRYGLAS SGX INTERLAYER
1/4" HEAT STRENGTHENED

SMALL MISSILE GLASS TYPES:

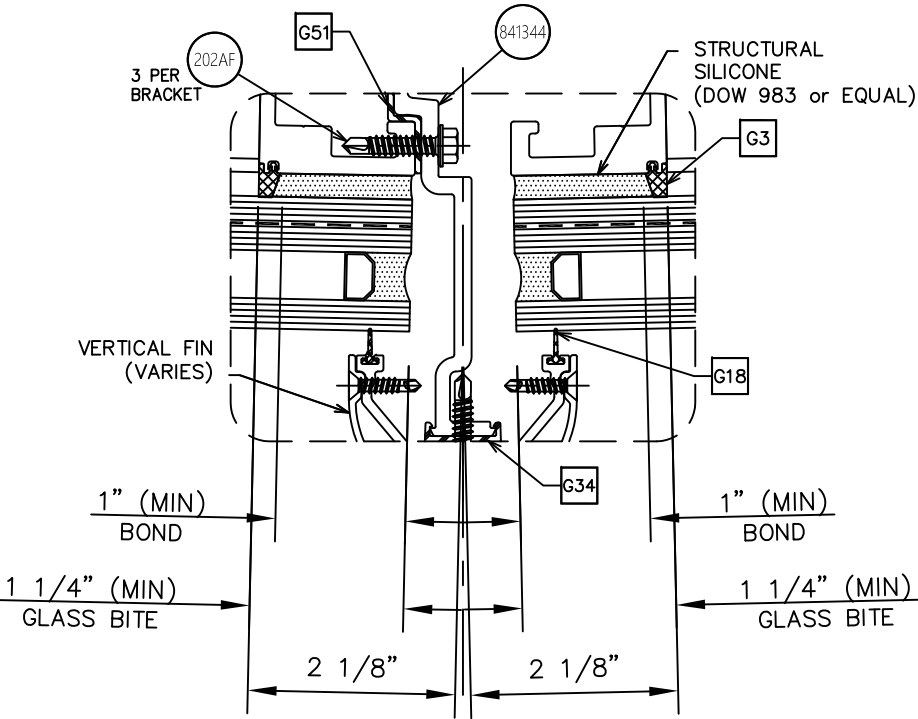
GLASS TYPE GL-07: 1 3/8" INSULATED/LAMINATED
5/16" HEAT STRENGTHENED
1/2" AIR SPACE (ALUM SPACER-BLACK)
1/4" HEAT STRENGTHENED
0.060" KURARAY BUTACITE PVB
1/4" HEAT STRENGTHENED

GLASS TYPE GL-09: 1 3/8" INSULATED/LAMINATED
5/16" TEMPERED
1/2" AIR SPACE (ALUM SPACER-BLACK)
1/4" HEAT STRENGTHENED
0.060" KURARAY BUTACITE PVB
1/4" HEAT STRENGTHENED

GLASS CHART

GLASS TYPE	DLO WIDTH (in)	DLO HEIGHT (in)	ALLOWABLE DESIGN PRESSURE (psf)	
			(+)	(-)
GL-03	55 1/4	176 27/32	60	60
GL-07	55 1/8	162 9/16	70	80
	66 3/4	150 9/16	70	70
GL-09	54 3/4	162 9/16	70	120

VERTICAL MULLION (JAMBS & CORNERS SIMILAR)



UCW8000i SERIES CURTAINWALL SYSTEM (IMI/SMI)



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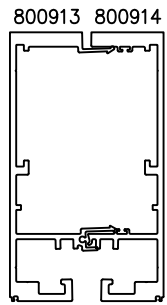
SEAL:

SCOTT WOLTERS
FL PE# 62354

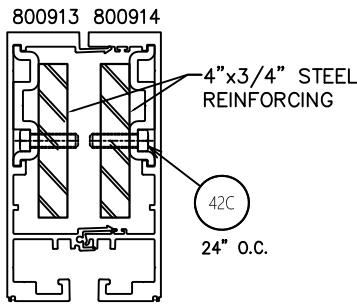
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1962

DWG: UCW8000i

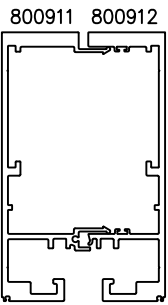
SHEET: 14/27



MULLION J1



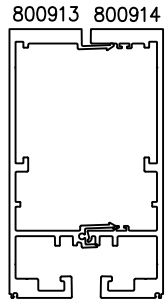
MULLION J2



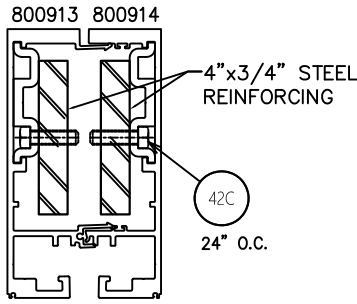
MULLION J3

SINGE SPAN MULLION CHART															
HEIGHT (in)		MAX. DESIGN PRESSURE (psf)													
		MULLION J1		MULLION J3		MULLION M1		MULLION C1		MULLION C2		MULLION C3		MULLION C5	
		(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)
154 1/2	44 3/4	70	120	70	120	70	120	70	70	70	70	70	120	70	120
	46	70	120	70	120	70	120	70	70	70	70	70	120	-	-
	58 3/4	70	120	70	120	70	120	70	70	70	70	-	-	-	-
	72	-	-	70	70	-	-	70	70	70	70	-	-	-	-
156	72	-	-	70	70	-	-	70	70	70	70	-	-	-	-

- SINGLE SPAN MULLION NOTES:
- HEIGHT IN CHART IS THE HEIGHT FROM THE SILL TO THE TOP-MOST ANCHOR. CANTILEVER HEIGHT IS NOT INCLUDED.
 - WIDTHS FOR MULLIONS, JAMBS, AND CORNER MULLIONS ARE CALCULATED AS NOTED IN THE SKETCHES BELOW.



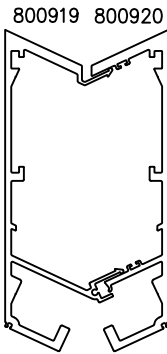
MULLION M1



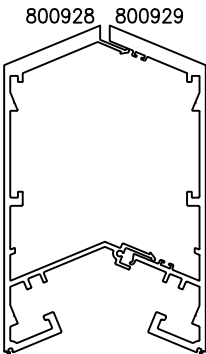
MULLION M2

MULTI-SPAN MULLION CHART																	
HEIGHT (in)		MAX. DESIGN PRESSURE (psf)															
		MULLION J1		MULLION J2		MULLION M1		MULLION M2		MULLION C3		MULLION C4		MULLION C5		MULLION C6	
		(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)
168	44 3/4	70	80	70	80	70	80	70	80	70	80	70	80	70	80	70	80
	46 1/4	70	80	70	80	70	80	70	80	70	80	70	80	-	-	-	-
	59 1/4	70	80	70	80	70	80	70	80	-	-	-	-	-	-	-	-
222 3/4	44 3/4	-	-	60	60	-	-	60	60	-	-	60	60	-	-	60	60
	46 1/4	-	-	60	60	-	-	60	60	-	-	60	60	-	-	-	-
	59 1/4	-	-	60	60	-	-	60	60	-	-	-	-	-	-	-	-

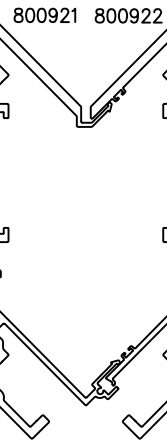
- MULTI-SPAN MULLION NOTES:
- HEIGHT IN CHART IS THE ANCHOR-TO-ANCHOR SPAN HEIGHT, AS SHOWN IN THE SKETCH BELOW.
 - WIDTHS FOR MULLIONS, JAMBS, AND CORNER MULLIONS ARE CALCULATED AS NOTED IN THE SKETCHES BELOW.
 - STEEL REINFORCING LENGTH IS SPAN LENGTH MINUS 18 3/4", OR DISTANCE FROM SPLICE TO ANCHOR MINUS 18 3/4".



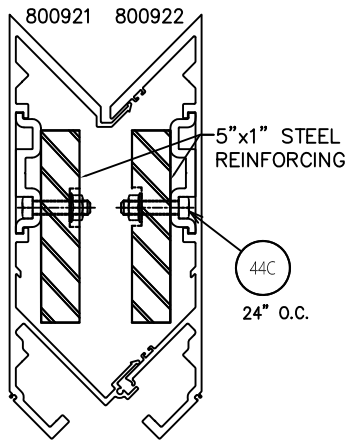
MULLION C1



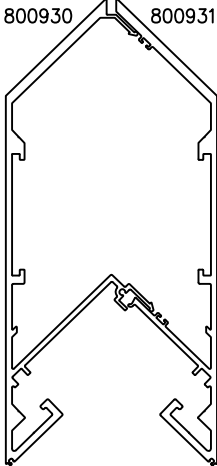
MULLION C2



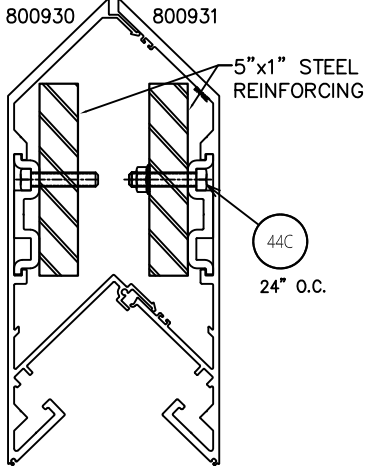
MULLION C3



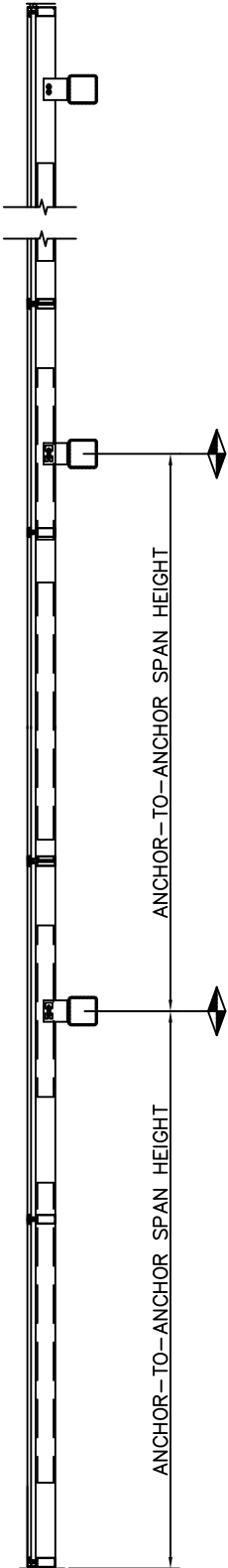
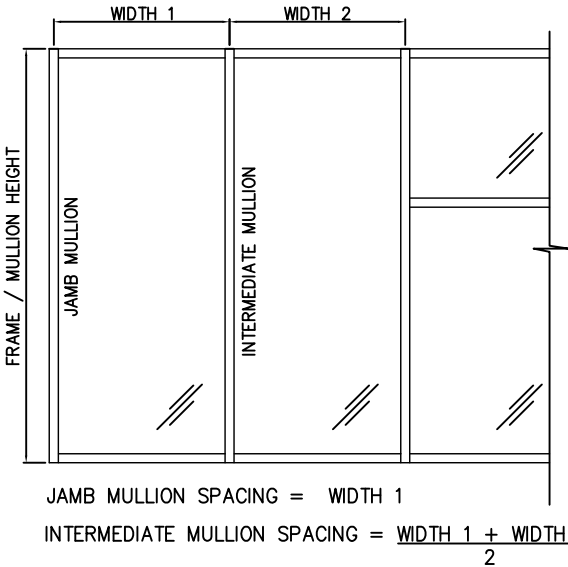
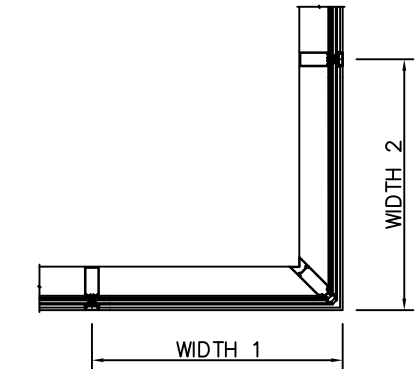
MULLION C4



MULLION C5



MULLION C6



UCW8000i SERIES CURTAINWALL SYSTEM (IMI/SMI)



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FORT LAUDERDALE, FL 33309

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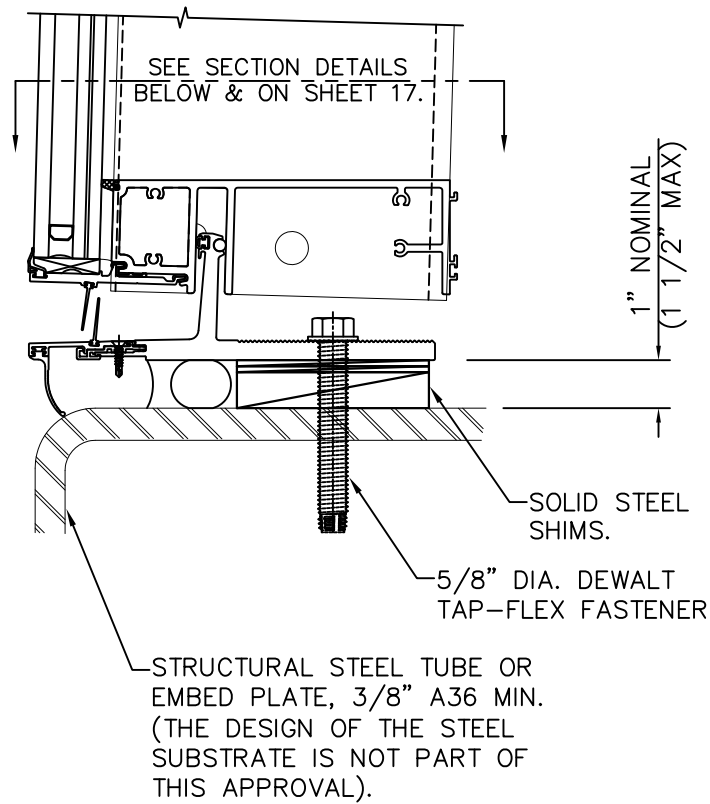


SEAL:
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FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

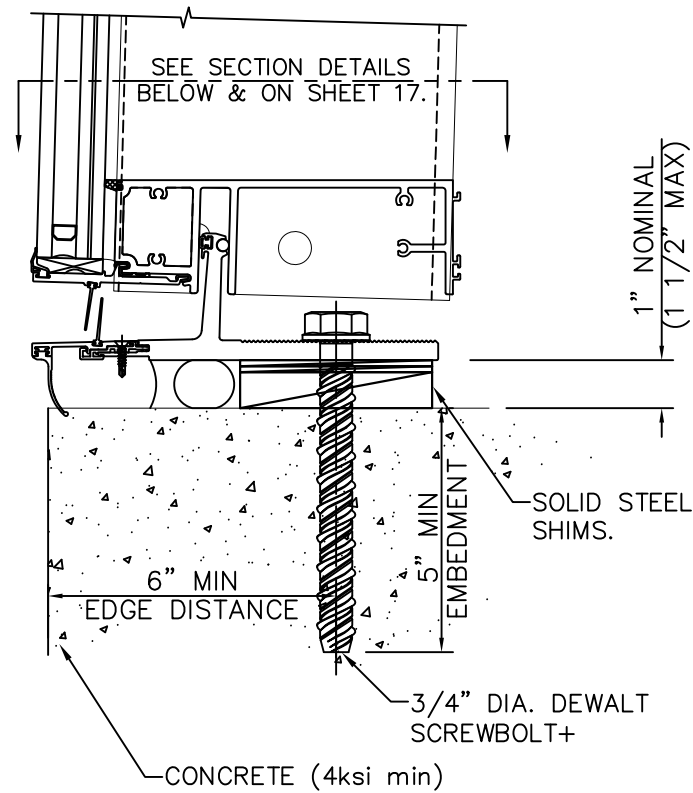
REV. #	DATE	PRINTS ISSUED FOR
1	12/20/24	1ST SUBMITTAL

SILL ANCHOR DETAILS

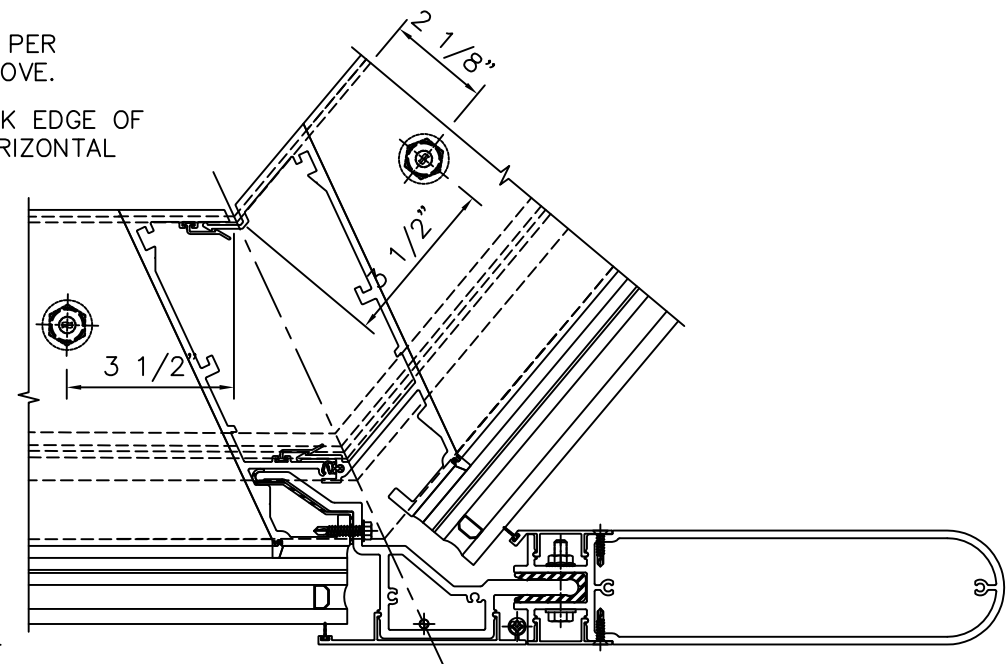
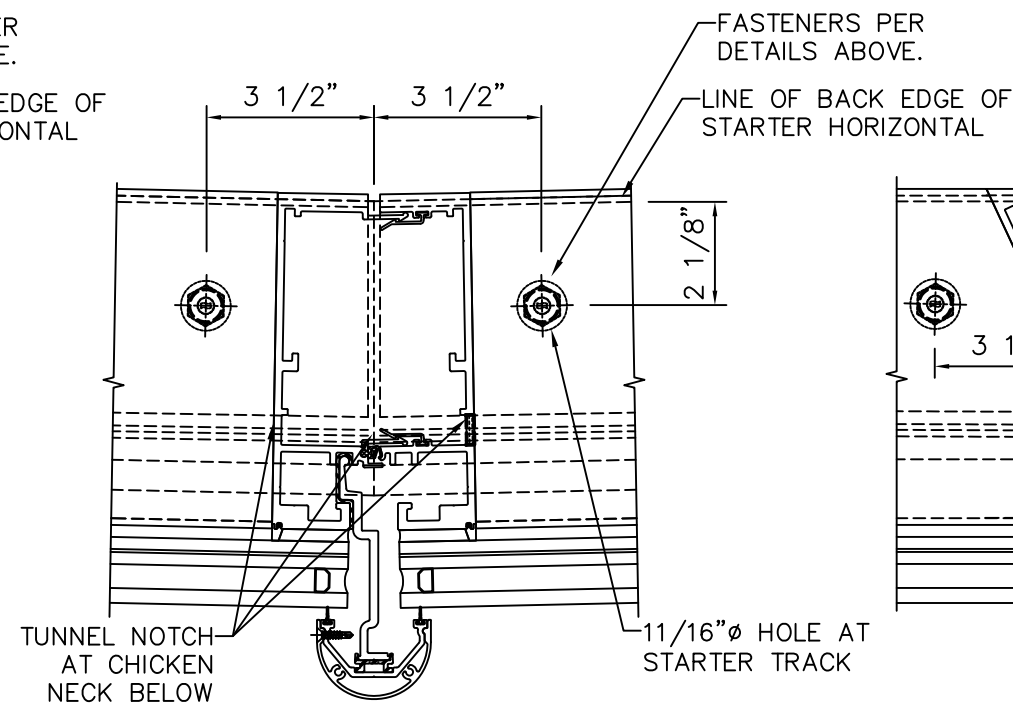
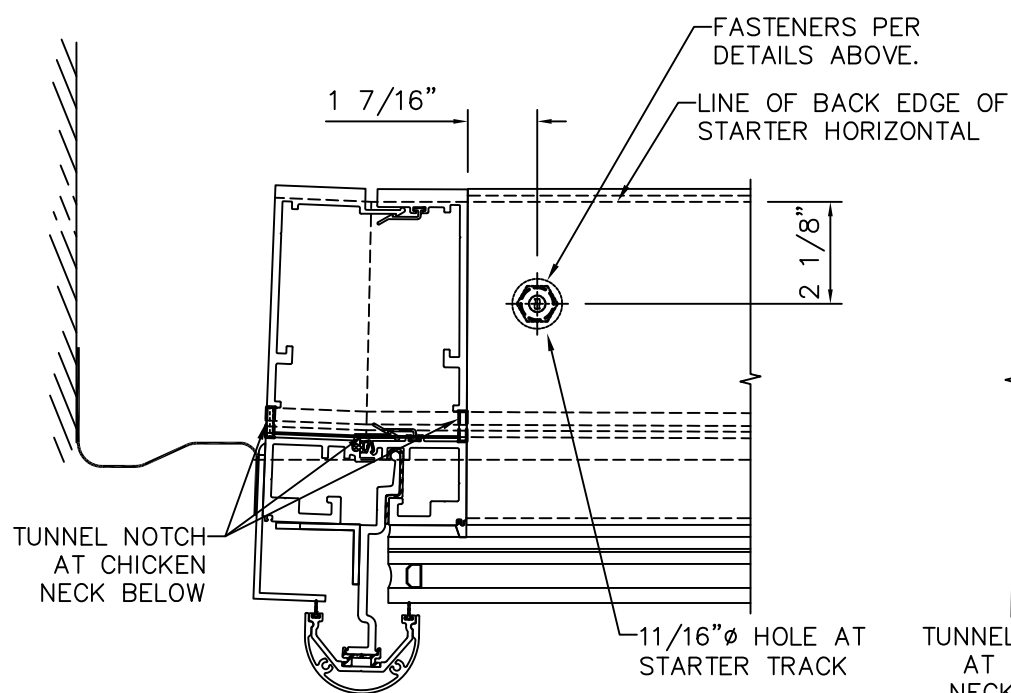
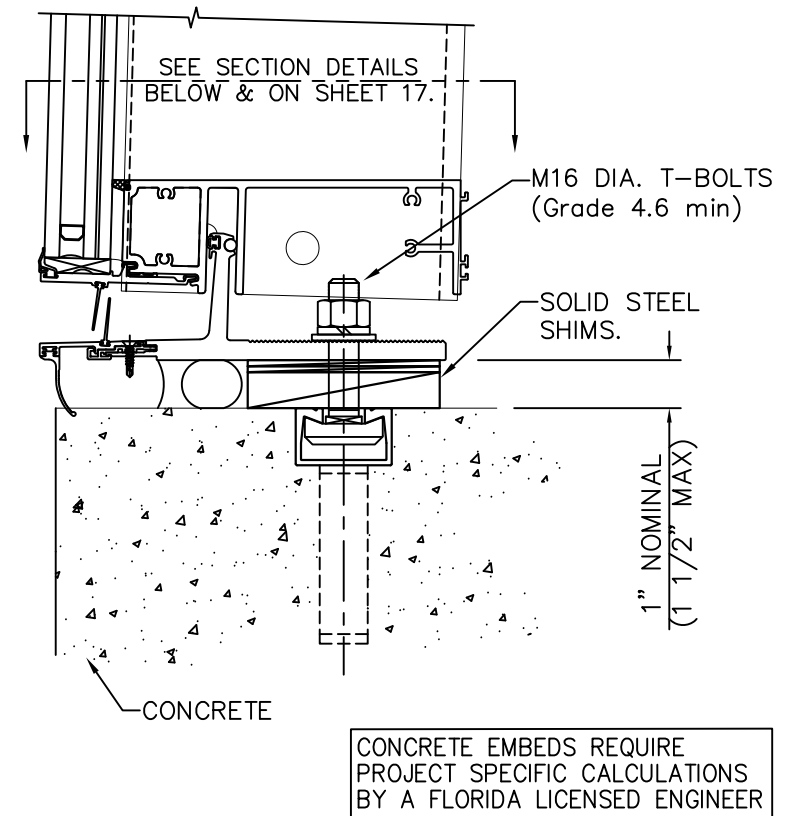
IN STEEL



IN CONCRETE



IN CONCRETE
(WITH CHANNEL EMBEDS)



UCW8000i SERIES CURTAINWALL SYSTEM (IMI/SMI)



550 WEST CYPRESS ROAD, SUITE 305
FORT LAUDERDALE, FL 33309

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WALTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

DWG:

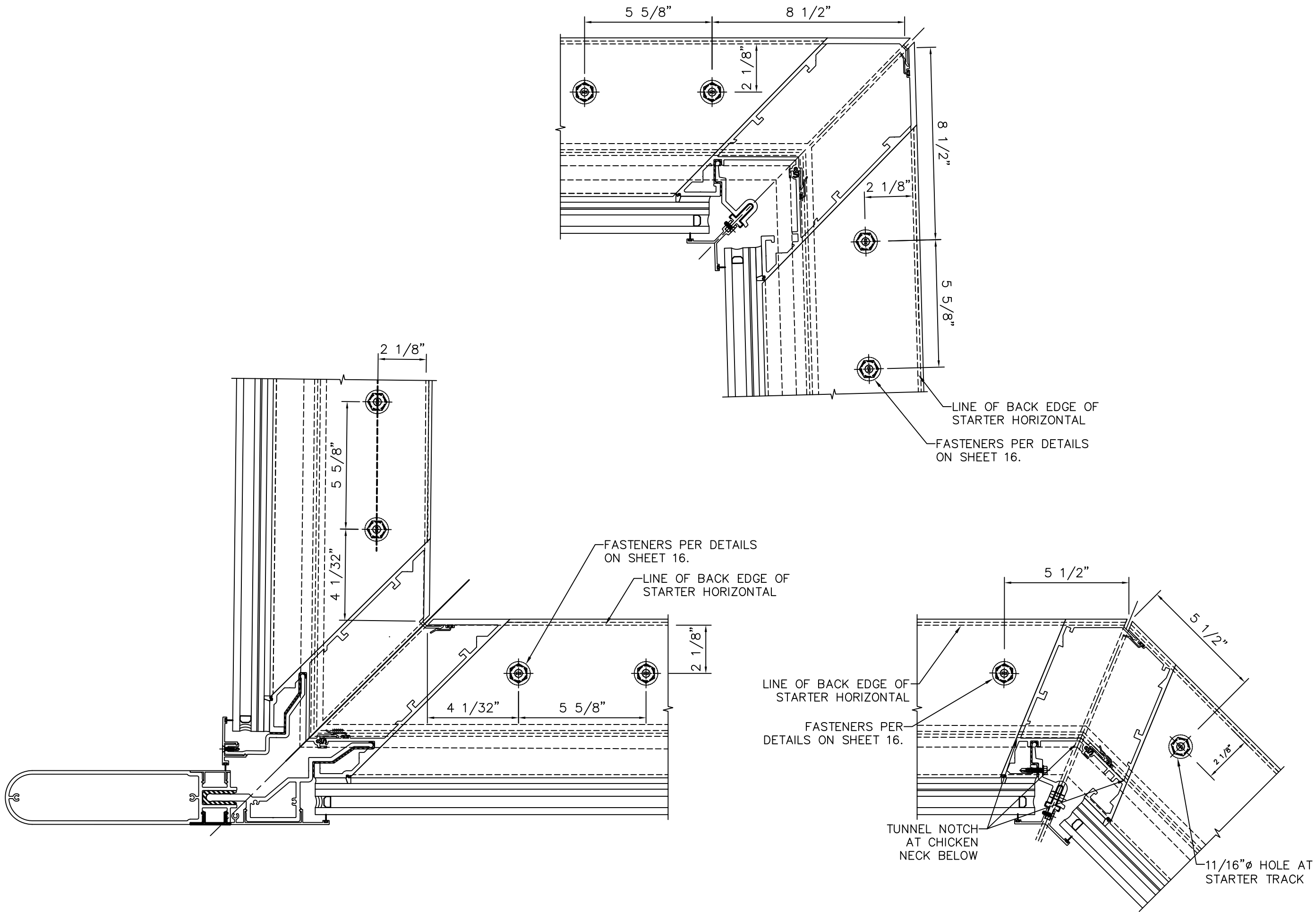
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16/27

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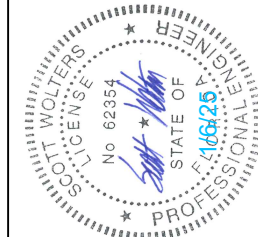
SILL ANCHOR DETAILS



UCW8000i SERIES CURTAINWALL SYSTEM (LMI/SMI)



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550 WEST CYPRESS ROAD, SUITE 305
FORT LAUDERDALE, FL 33309



SEAL:

SCOTT WOLTERS
FL PE# 62354

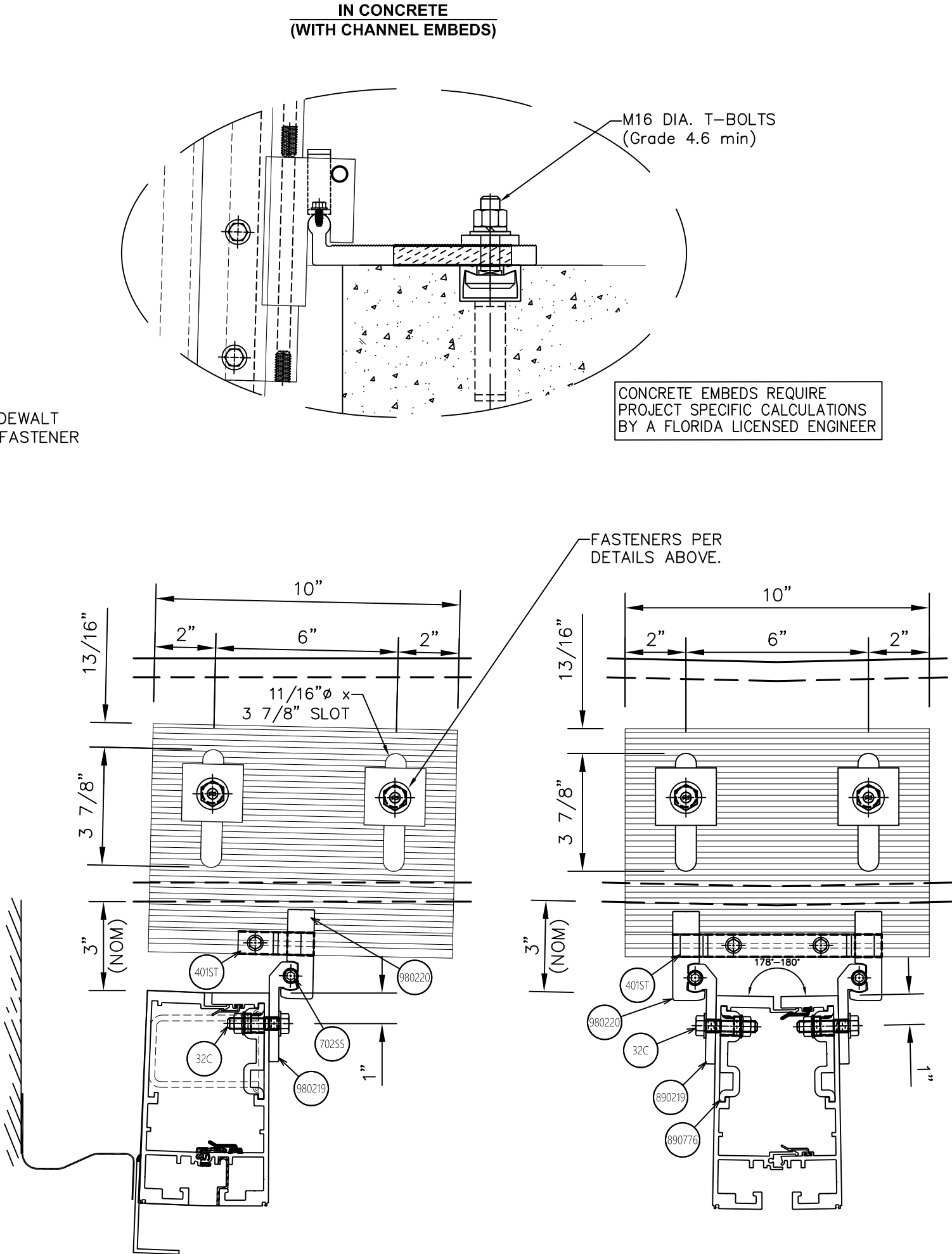
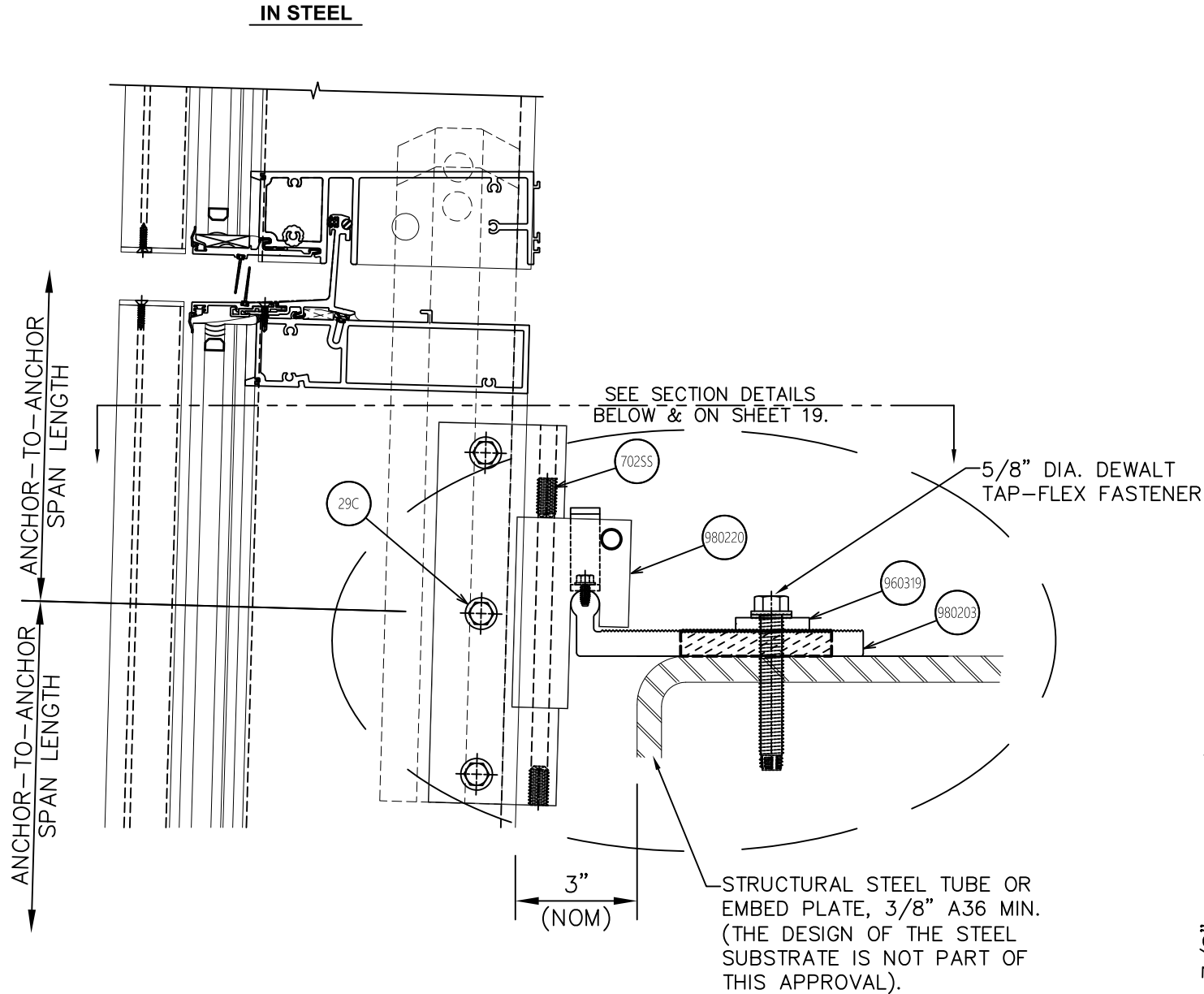
WOLTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

DWG: UCW8000i

SHEET: 17/27

REV.#	DATE
1ST SUBMITTAL	12/20/24
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HEAD/MID-SPAN ANCHOR DETAILS



UCW8000i SERIES CURTAINWALL SYSTEM (IMI/SMI)



550 WEST CYPRESS ROAD, SUITE 305
FORT LAUDERDALE, FL 33309



SEAL:
SCOTT WOLTERS
FL PE# 62354
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

DWG: UCW8000i
SHEET: 18/27

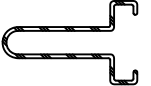
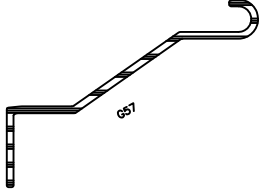
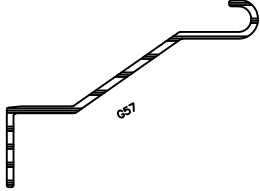
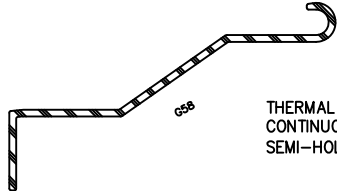
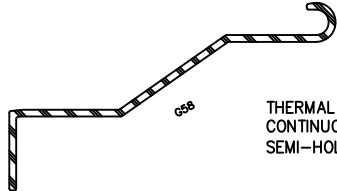
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REV.#	DATE
1ST SUBMITTAL	12/20/24
PRINTS ISSUED FOR	

DETAILS ARE SHOWN WITH STRUCTURAL STEEL
TUBE SUPPORTS. DETAILS ON CONCRETE WITH STEEL
PLATE OR CHANNEL TYPE EMBEDS ARE SIMILAR.



GASKET SCHEDULE			
MARK	GASKET NO.	PROFILE	DESCRIPTION
G1	740061 TRELLEBORG 2866-02-00	  EXTRUDED INSTALLED	PRIMARY SEAL BULB GASKET, BLACK IN COLOR CONTINUOUS, AT VERTICAL MULLIONS (70 ±5 DUROMETER SILICONE)
G2	790604 TRELLEBORG 7795-01-01	  EXTRUDED INSTALLED	THERMAL SEPARATOR, BLACK IN COLOR 4" LONG (12" OC) (40 ±5 DUROMETER "D" BLACK SANTOPRENE)
G3	770301 TRELLEBORG 4607-02-02	  EXTRUDED INSTALLED	1/4" INTERIOR FIXED GASKET, BLACK IN COLOR LINEAL GASKET STANDARD (70 ±5 DUROMETER SILICONE)
G6	740304 TRELLEBORG 2864-02-00	  EXTRUDED INSTALLED	PRIMARY SEAL BULB GASKET, BLACK IN COLOR CONTINUOUS, AT STACK HORIZONTAL (70 ±5 DUROMETER SILICONE)
G12	750805 TRELLEBORG 11411-02-00		WIPER GASKET, BLACK IN COLOR CONTINUOUS, AT STACK HORIZONTAL (70 ±5 DUROMETER SILICONE)
G13	740028 EPG 17003-02-00	  EXTRUDED INSTALLED	WIPER BULB GASKET, BLACK IN COLOR CONTINUOUS, AT GLASS PERIMETER (70 ±5 DUROMETER SILICONE)
G16	SILICONE SHEET		SILICONE SEALANT SHEET, TRANSLUCENT IN COLOR 4" WIDE x .060", AT UNIT TO UNIT JOINERY LOW-MODULUS (FIELD-INSTALLED)
G18	750025 TRELLEBORG 13513-02-00		WIPER GASKET, BLACK IN COLOR CONTINUOUS, AT VERTICAL TRIM (70 ±5 DUROMETER SILICONE)
G20	770014 TRELLEBORG 13994-01-00	  EXTRUDED INSTALLED	HORIZONTAL WEATHERSEAL, BLACK IN COLOR AT SSG INTERMEDIATE HORIZONTALS (85 ±5 DUROMETER SILICONE) STOCK IS 60" & 120"
G33	790165 EPG 17004-01-00		THERMAL SEPARATOR, BLACK IN COLOR 4" LONG (12" OC) (40 ±5 DUROMETER "D" BLACK SANTOPRENE)
G90	750018 TRELLEBORG 17228-10-00		WIPER GASKET, BLACK IN COLOR CONTINUOUS, AT STARTER SILL HORIZONTAL (70 ±5 DUROMETER SILICONE)
SB8	700146 EPG 1994-01-01		SETTING BLOCK, BLACK IN COLOR 6" LONG, 4" FROM GLASS EDGE TO EDGE OF BLOCK (85 ±5 DUROMETER SILICONE)
SB1	700402 TRELLEBORG 10783-01-02		SETTING BLOCK, BLACK IN COLOR 6" LONG, 4" FROM GLASS EDGE TO EDGE OF BLOCK (85 ±5 DUROMETER SILICONE)
T2	THERMALBOND V2100		SAINT-GOBAIN V2100 THERMALBOND GLAZING TAPE 5/16" x 1/2"
C01	750030 TRELLEBORG 10343-02-00		WIPER GASKET, BLACK IN COLOR CONTINUOUS, AT VERTICAL TRIM (70 ±5 DUROMETER SILICONE)

PVC SCHEDULE			
MARK	GASKET NO.	PROFILE	DESCRIPTION
G8	760301 TRELLEBORG 3992-01-01		PVC SPACER, BLACK IN COLOR 6" LONG (24" OC) SILICONE IN PLACE (RIGID PVC)
G15	790814 TRELLEBORG 11943-01-01		THERMAL SEPARATOR, BLACK IN COLOR 60" LONG, SPLICE CONTINUOUS (RIGID PVC / 60A ALCRYN)
G24	760015 ASTRO PLASTICS AP6052	  EXTRUDED INSTALLED	THERMAL SEPARATOR – STACK HEAD, BLACK IN COLOR CONTINUOUS, AT STACK HORIZONTAL DUAL DUROMETER (RIGID PVC / ALCRYN) STOCK IS 59 3/4"
G34	790141 TRELLEBORG 16837-01-00		THERMAL SEPARATOR, BLACK IN COLOR CONTINUOUS (RIGID PVC)
G37	790082 TRELLEBORG 15535-01-00	  EXTRUDED INSTALLED	BUTT JOINT ADAPTOR, BLACK IN COLOR CONTINUOUS, AT INT HORIZONTAL (RIGID PVC)
G51	790076 TRELLEBORG 15253-01-00		THERMAL SEPARATOR, BLACK IN COLOR CONTINUOUS, FOR HOLLOW AND SEMI-HOLLOW FRONT VERTICALS (RIGID PVC)
G52	790212 TRELLEBORG 17466-01-00		THERMAL SEPARATOR, BLACK IN COLOR (RIGID PVC) AT BRACKETS FOR VERTICAL FINS
G53	790175 ASTRO AP6293		THERMAL SEPARATOR, BLACK IN COLOR (RIGID PVC) AT MILLED HOOK BRACKETS FOR COVERS
G57	790199	  G57	THERMAL SEPARATOR, BLACK IN COLOR CONTINUOUS, FOR HOLLOW AND SEMI-HOLLOW FRONT VERTICALS (RIGID PVC)
G58	790200	  G58	THERMAL SEPARATOR, BLACK IN COLOR CONTINUOUS, FOR HOLLOW AND SEMI-HOLLOW FRONT VERTICALS (RIGID PVC)

UCW8000i SERIES CURTAINWALL SYSTEM (IMI/SMI)



550 WEST CYPRESS ROAD, SUITE 305
FORT LAUDERDALE, FL 33309
PH: (954) 809-6500
WWW.HARMONINC.COM

SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1962

DWG:

UCW8000i

SHEET:

20/27

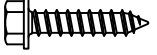
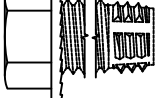
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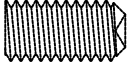
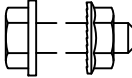
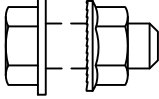
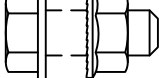
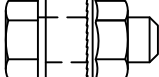
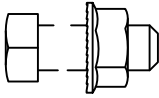
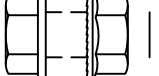
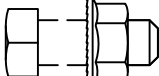
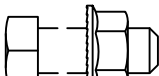
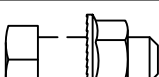
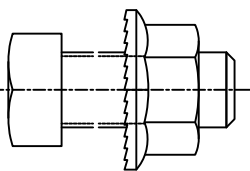
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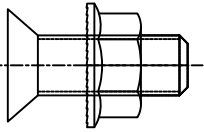
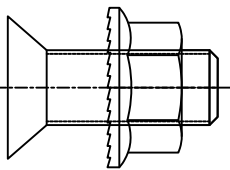
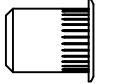
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PRINTS ISSUED FOR

REV.#

FASTENER SCHEDULE					
MARK	FASTENER	DESCRIPTION	POINT GRADE		MATERIAL/FINISH
210DF		#12-14 X 1 1/4" PFH (UNDERCUT) ELCO DRIL-FLEX Fu=120 ksi Fy=92 ksi	•	•	CARBON STEEL STALGARD
102BF		#10-16 X 1" HWH ELCO BI-FLEX Fu=100 ksi Fy=65 ksi	•	•	300 SERIES SS STALGARD GB
202BF		~~#12-14 X 1" HWH ELCO BI-FLEX Fu=100 ksi Fy=65 ksi~~	~~•~~	~~•~~	~~300 SERIES SS STALGARD GB~~
212BF		#12-14 X 1 1/4" HWH ELCO BI-FLEX Fu=100 ksi Fy=65 ksi	•	•	300 SERIES SS STALGARD GB
006SM		#6-20 X 5/8" PFH SMS Fu=75 ksi Fy=30 ksi	•	•	300 SERIES SS MILL
056SM		#8-18 X 3/4" PFH SMS Fu=75 ksi Fy=30 ksi	•	A	300 SERIES SS MILL
115SM		#10-16 X 3/4" PFH SMS Fu=75 ksi Fy=30 ksi	•	•	300 SERIES SS MILL
203SM		#12-14 X 1" HWH SMS Fu=100 ksi Fy=65 ksi	•	•	300 SERIES SS MILL
205SM		#12-14 X 1 1/2" HWH SMS Fu=100 ksi Fy=65 ksi	•	•	300 SERIES SS STALGARD
206SM		~~#12-14 X 1 3/4" HWH SMS Fu=100 ksi Fy=65 ksi~~	~~•~~	~~•~~	~~300 SERIES SS MILL~~
103AF		#10-16 X 1" HWH ELCO ALUMI-FLEX Fu=100 ksi Fy=65 ksi	•	•	300 SERIES SS STALGARD GB
104AF		#10-16 X 3/4" PFH (UNDERCUT) ELCO ALUMI-FLEX Fu=100 ksi Fy=65 ksi	•	•	300 SERIES SS STALGARD GB
201AF		#12-14 X 3/4" HWH ELCO ALUMI-FLEX Fu=100 ksi Fy=65 ksi	•	•	300 SERIES SS STALGARD GB
202AF		#12-14 X 1" HWH ELCO ALUMI-FLEX Fu=100 ksi Fy=65 ksi	•	•	300 SERIES SS STALGARD GB
210DR		#12-14 X 2" HWH ELCO DRILIT W/ SEALING WASHER Fu=120 ksi Fy=92 ksi	•	•	CARBON STEEL STALGARD
213DR		#12-14 X 4" HWH ELCO DRILIT W/ SEALING WASHER Fu=120 ksi Fy=92 ksi	•	•	CARBON STEEL STALGARD
059SD		#8-18 X 3/4" PFH SDS Fu=75 ksi Fy=30 ksi	•	A	300 SERIES SS MILL
401ST		1/4"-20 X 1/2" HWH STS Fu=74 ksi Fy=57 ksi	•	•	CARBON STEEL ZINC PLATED
754TF		5/8"-11 X 3" HWH W/ SERRATIONS ELCO TAP-FLEX Fu=120 ksi Fy=92 ksi TORQUE: SNUG TIGHT	•	•	CARBON STEEL STALGARD SUB

FASTENER SCHEDULE					
MARK	FASTENER	DESCRIPTION	POINT GRADE		MATERIAL/FINISH
051AL		#8-32 X 1/2" PFH ALLOY ALLFLEX Fu=85 ksi Fy=20 ksi	•	•	300 SERIES SS STALGARD GB
104AL		#10-32 X 3/4" PFH ALLOY ALLFLEX Fu=85 ksi Fy=20 ksi	•	•	300 SERIES SS STALGARD GB
506SS		5/16"-18 X 5/8" HEX SOCKET SET SCREW Fu=120 ksi Fy=92 ksi	•	•	CARBON STEEL ZINC PLATED
702SS		1/2"-13 X 1" HEX SOCKET SET SCREW Fu=120 ksi Fy=92 ksi	•	•	CARBON STEEL ZINC PLATED
207BF		#12-14 X 2" HWH ELCO BI-FLEX Fu=100 ksi Fy=65 ksi	•	•	300 SERIES SS STALGARD GB
27C		1/4"-20 X 1 1/2" HHCS w/ FLAT WASHER & HEX NUT (304SS) FU=100 KSI, Fy=65KSI TORQUE TO 7 FT-LBS	•	•	304SS
28C		3/8"-16 X 1 1/2" HHCS w/ FLAT WASHER & FLANGE NUT Fu= 120k PSI Fy= 92k PSI TORQUE TO 27 FT-LBS	•	•	CARBON STEEL ZINC PLATED 
29C		3/8"-16 X 2" HHCS w/ FLAT WASHER & FLANGE NUT Fu= 120k PSI Fy= 92k PSI TORQUE TO 27 FT-LBS	•	•	CARBON STEEL ZINC PLATED
32C		3/8"-16 X 1 3/4" HHCS w/ FLAT WASHER & FLANGE NUT Fu= 120k PSI Fy= 92k PSI TORQUE TO 27 FT-LBS	•	•	CARBON STEEL ZINC PLATED
42C		3/8"-16 X 1 1/4" HHCS w/ FLANGE NUT Fu= 120k PSI Fy= 92k PSI TORQUE TO 27 FT-LBS	•	•	CARBON STEEL ZINC PLATED
43C		3/8"-16 X 2 1/4" HHCS w/ FLAT WASHER & FLANGE NUT Fu= 120k PSI Fy= 92k PSI TORQUE TO 27 FT-LBS	•	•	CARBON STEEL ZINC PLATED
44C		3/8"-16 X 1 3/4" HHCS w/ FLANGE NUT Fu= 120k PSI Fy= 92k PSI TORQUE TO 27 FT-LBS	•	•	CARBON STEEL ZINC PLATED
45C		3/8"-16 X 1 1/4" HHCS w/ FLANGE NUT Fu= 120k PSI Fy= 92k PSI TORQUE TO 27 FT-LBS	•	•	CARBON STEEL ZINC PLATED
47C		3/8"-16 X 1 1/2" HHCS w/ FLANGE NUT Fu= 120k PSI Fy= 92k PSI TORQUE TO 27 FT-LBS	•	•	CARBON STEEL ZINC PLATED
48C		5/8"-11 X 2 1/4" HHCS w/ FLANGE NUT FU= 120K PSI FY= 92K PSI TORQUE TO 125 FT-LBS	•	•	CARBON STEEL ZINC PLATED

FASTENER SCHEDULE				
MARK	FASTENER	DESCRIPTION	POINT GRADE	MATERIAL/FINISH
49C		1/2"-16 X 1 1/2" FHS w/ FLANGE NUT	•	ALLOY STEEL CARBON STEEL
50C		5/8"-11 X 1 3/4" FHS w/ FLANGE NUT	•	ALLOY STEEL CARBON STEEL
51C		HEAVY-DUTY RIVET NUT, 3/8"-16 INTERNAL THREAD, 0.027-0.15" MATERIAL THICKNESS McMASTER-CARR # 97467A728	•	18-8 SS

UCW8000i SERIES CURTAINWALL SYSTEM (IMI/SMI)



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FORT LAUDERDALE, FL 33309



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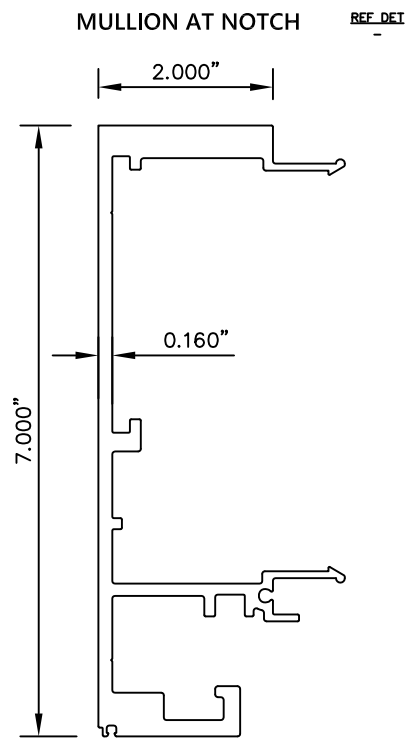
SCOTT WALTERS
FL PE# 62354

WALTERS ENGINEERING
(CO.# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1962

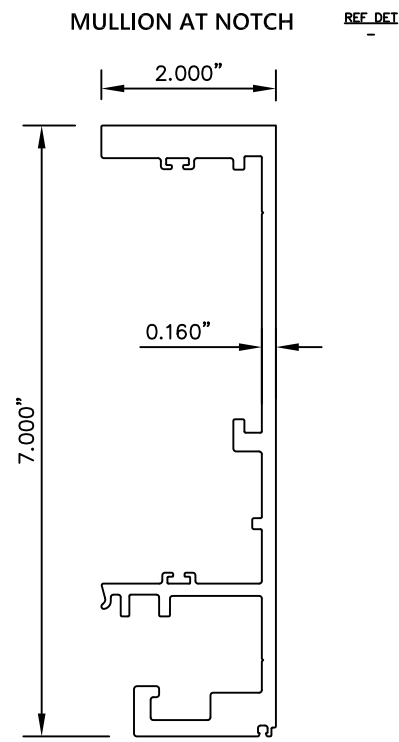
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SHEET: 21/27

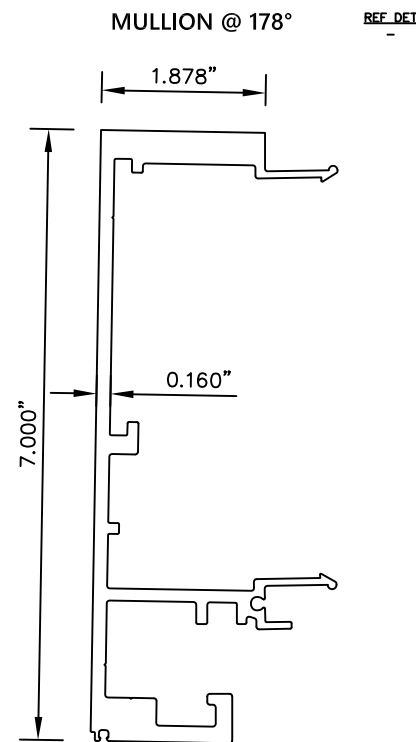
12/20/24	DATE
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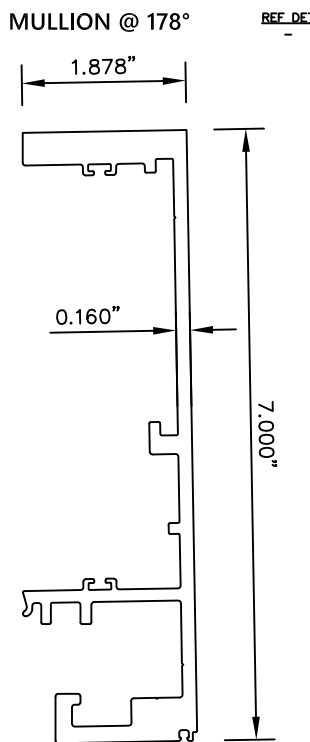
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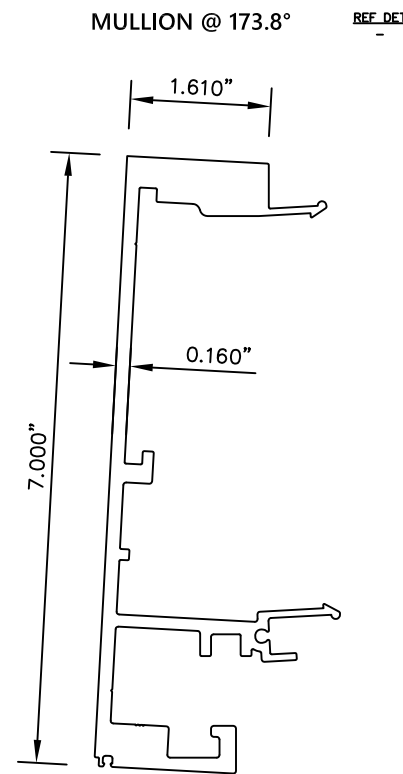
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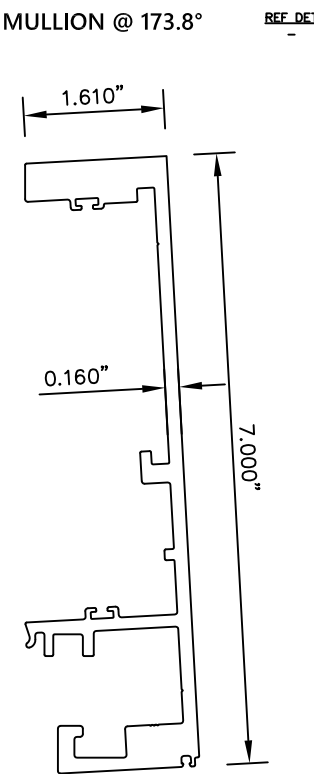
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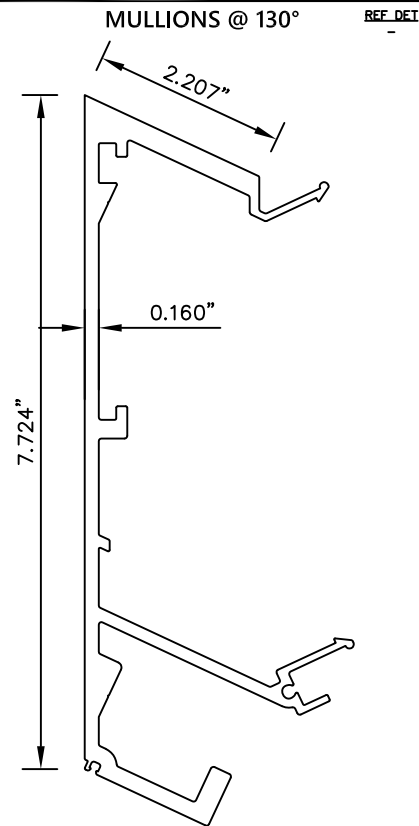
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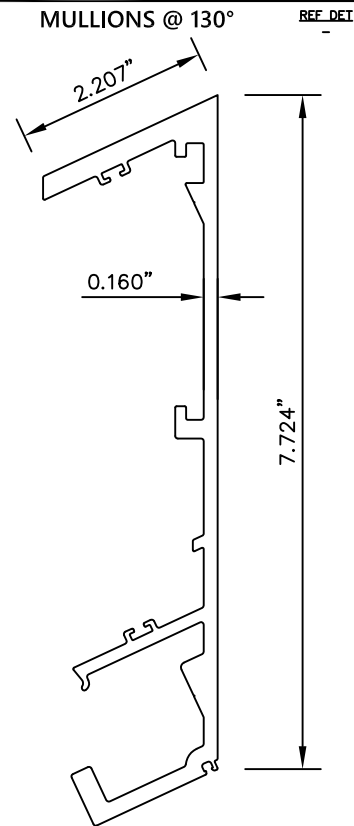
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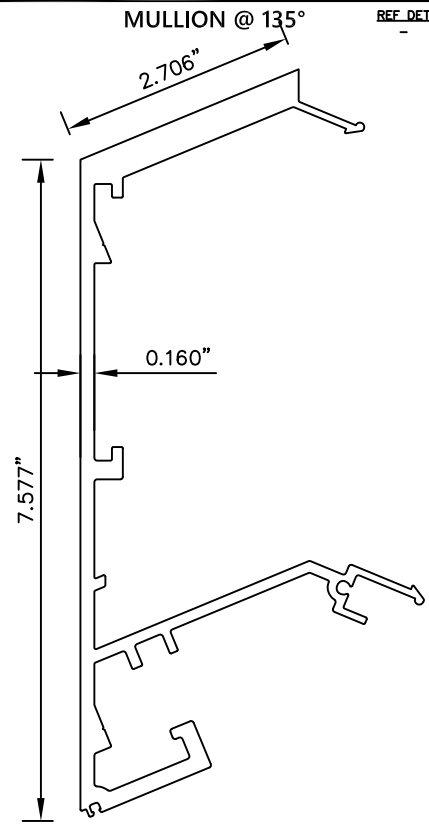
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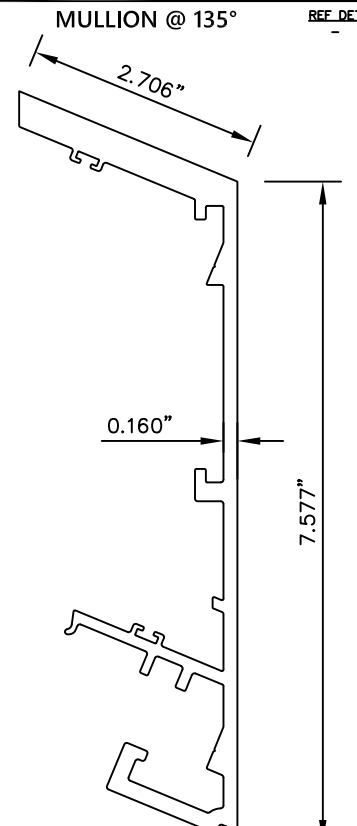
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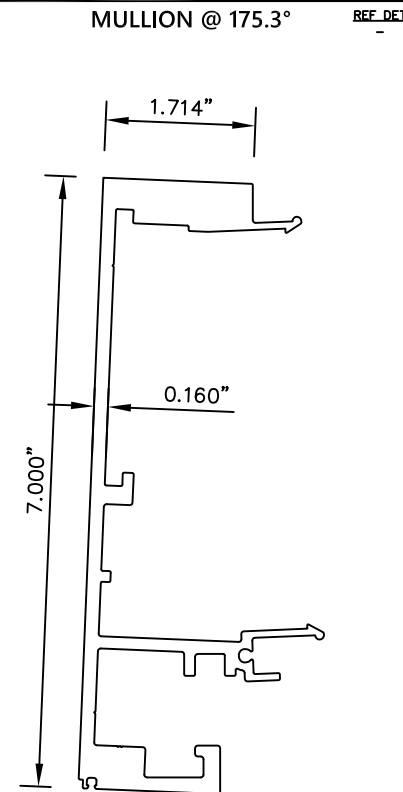
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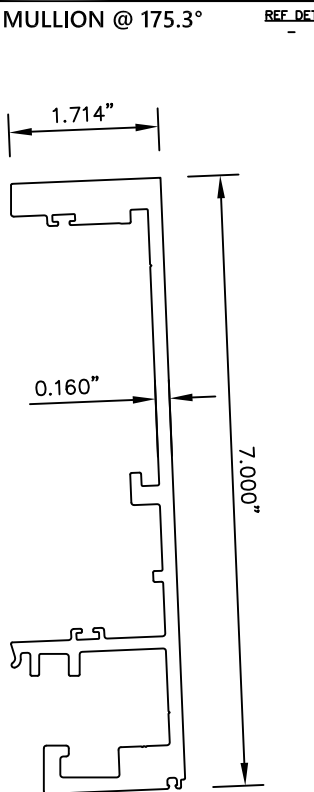
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HARMON # 800929
ALLOY: 6063-T6 FINISH =



HARMON # 800915
ALLOY: 6063-T6 FINISH =



HARMON # 800916
ALLOY: 6063-T6 FINISH =

SEAL:

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FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

DWG:

SHEET: 22/27



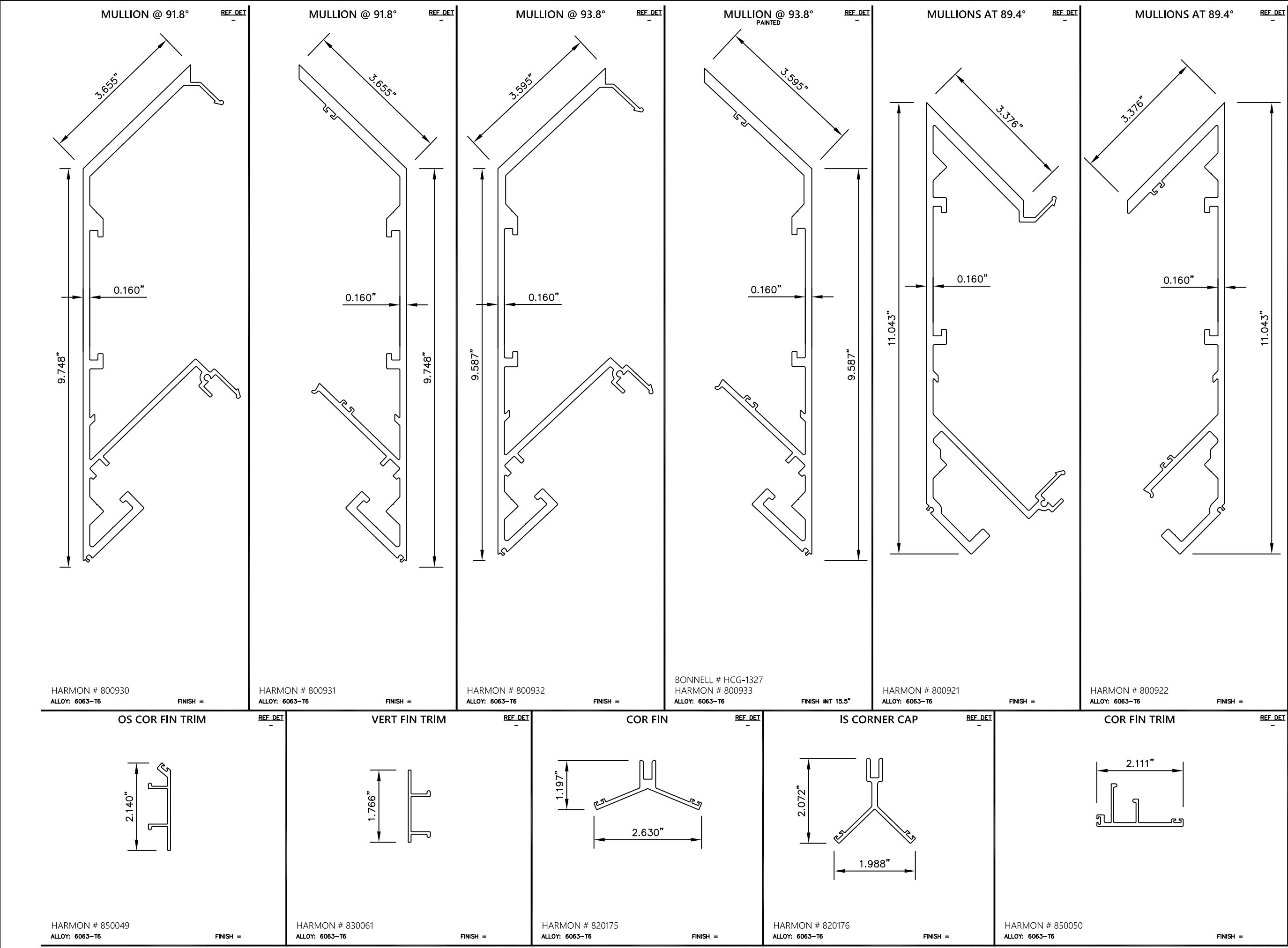
UCW8000i SERIES CURTAINWALL SYSTEM (LMI/SMI)



550 WEST CYPRESS ROAD, SUITE 305
FORT LAUDERDALE, FL 33309

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1ST SUBMITTAL		PRINTS ISSUED FOR		REV.# DATE	
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SEAL:

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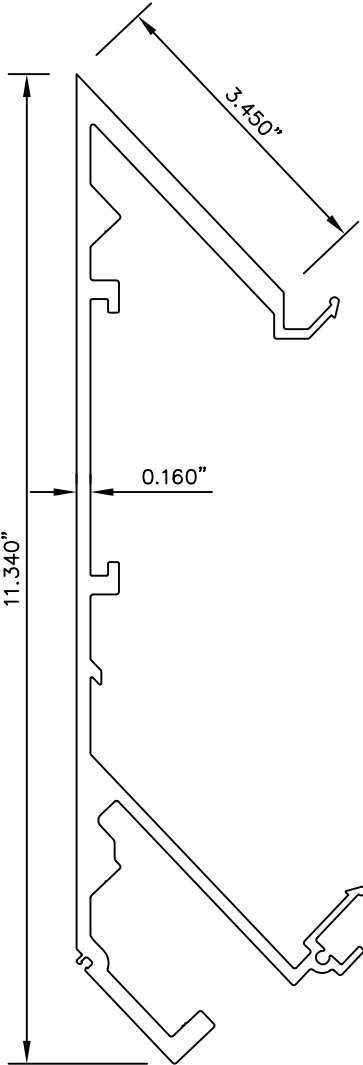
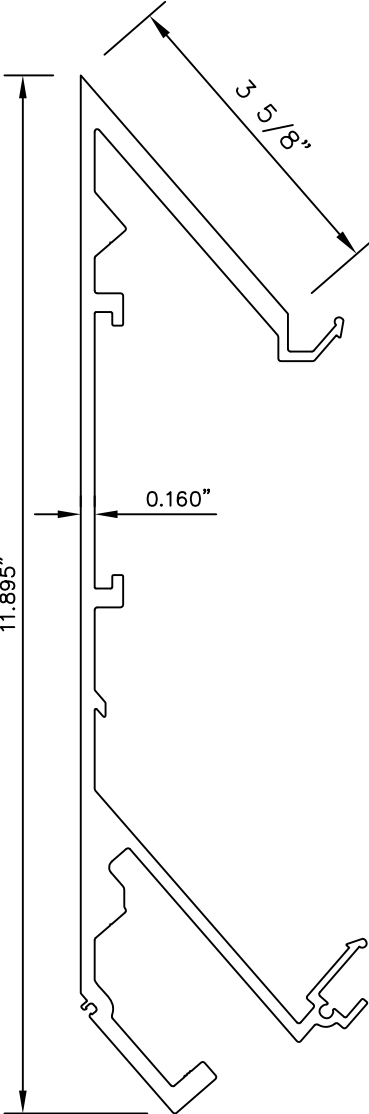
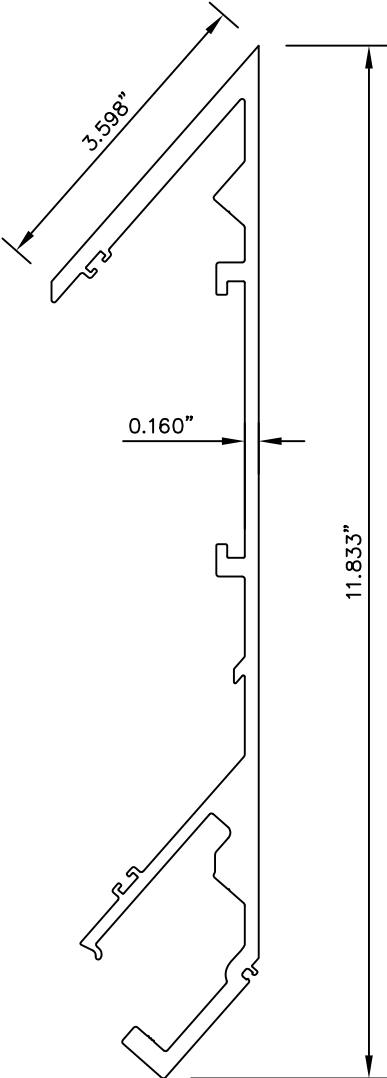
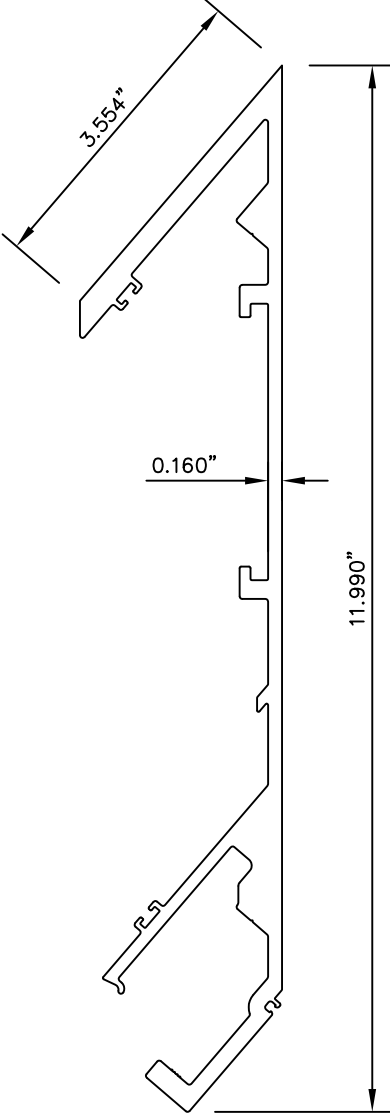
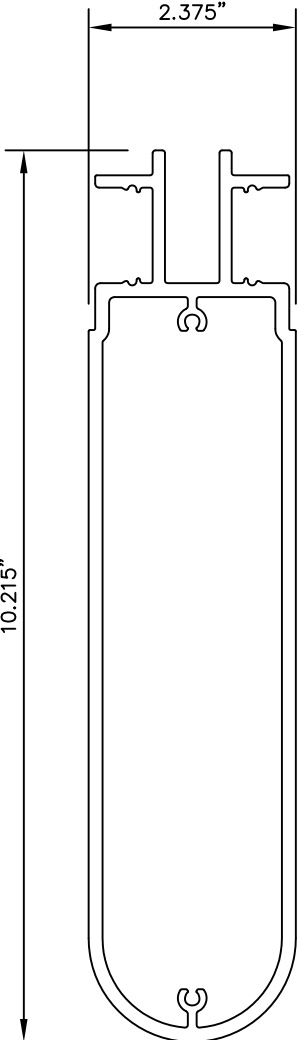
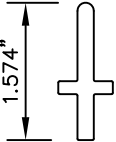
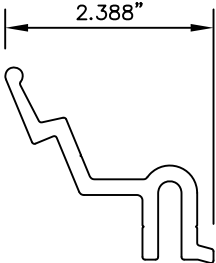
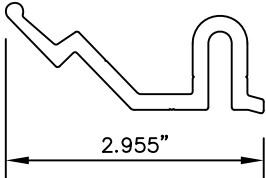
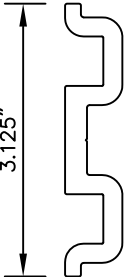
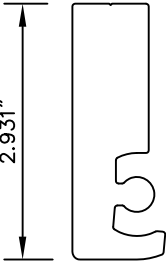
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

DWG:

SHEET:

UCW8000i

23/27

MULLIONS AT 87.0° REF_DET  HARMON # 800923 ALLOY: 6063-T6 FINISH =	MULLIONS AT 87.0° REF_DET HARMON # 800924 ALLOY: 6063-T6 FINISH =	MALE MULLION AT 82.0° REF_DET  HARMON # 800925 ALLOY: 6063-T6 FINISH =	FEMALE MULLION AT 82.6° REF_DET  HARMON # 800926 ALLOY: 6063-T6 FINISH =	FEMALE MULLION AT 81.3° REF_DET  HARMON # 800927 ALLOY: 6063-T6 FINISH =	OS COR FIN REF_DET  HARMON # 841350 ALLOY: 6063-T6 FINISH =
ANTI-BUCKLING CLIP REF_DET  HARMON # 400601 ALLOY: 6063-T6 FINISH =	COR FIN CONNECTOR REF_DET  HARMON # 841347 ALLOY: 6063-T6 FINISH =	COR FIN TRIM REF_DET  HARMON # 841348 ALLOY: 6063-T6 FINISH =	CAP BRACKET REF_DET  HARMON # 841441 ALLOY: 6063-T6 FINISH =	LIFTING LUG REF_DET  HARMON # 890776 ALLOY: 6005A-T61 FINISH =	ANCHOR HOOK REF_DET  HARMON # 980220 ALLOY: 6005A-T61 FINISH =

UCW8000i SERIES CURTAINWALL SYSTEM (IMI/SMI)		12/20/24	
HARMON®		REV.#	
550 WEST CYPRESS ROAD, SUITE 305		DATE	
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PH: (954) 809-6500		PRINTS ISSUED FOR	
WWW.HARMONINC.COM		REV.#	

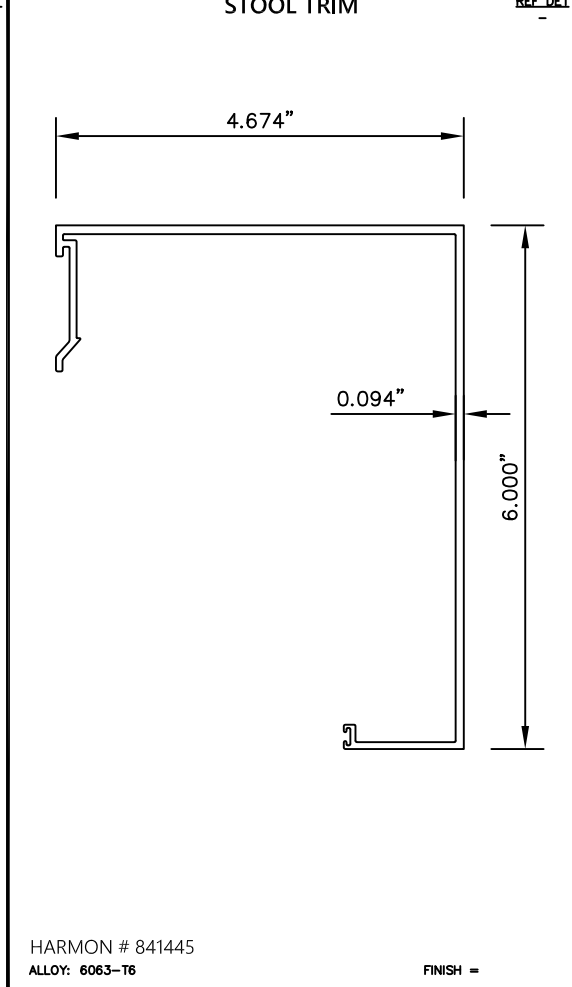
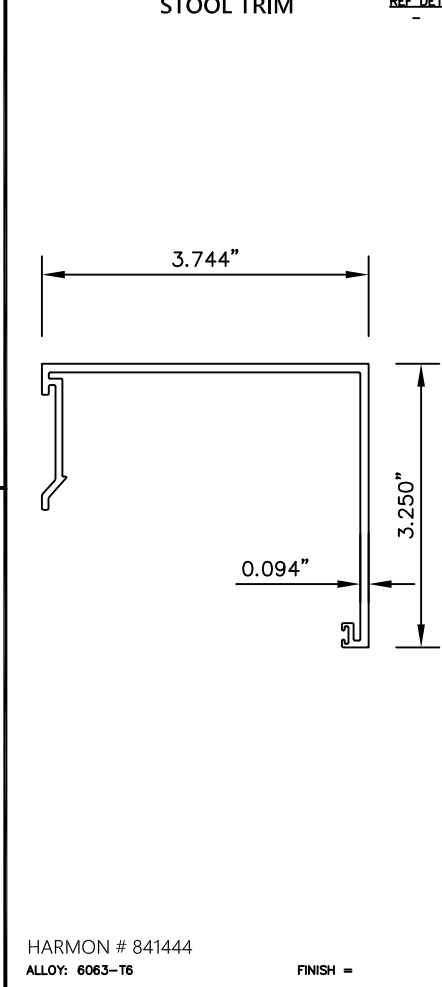
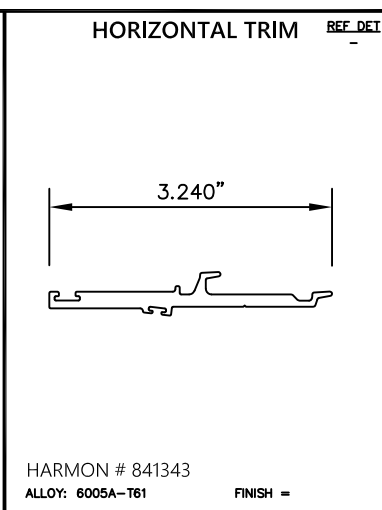
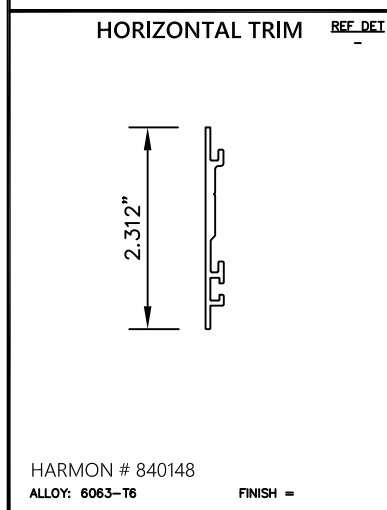
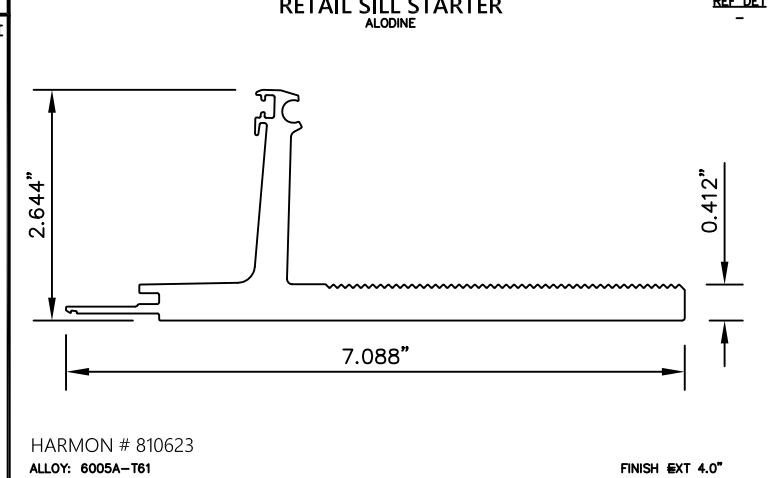
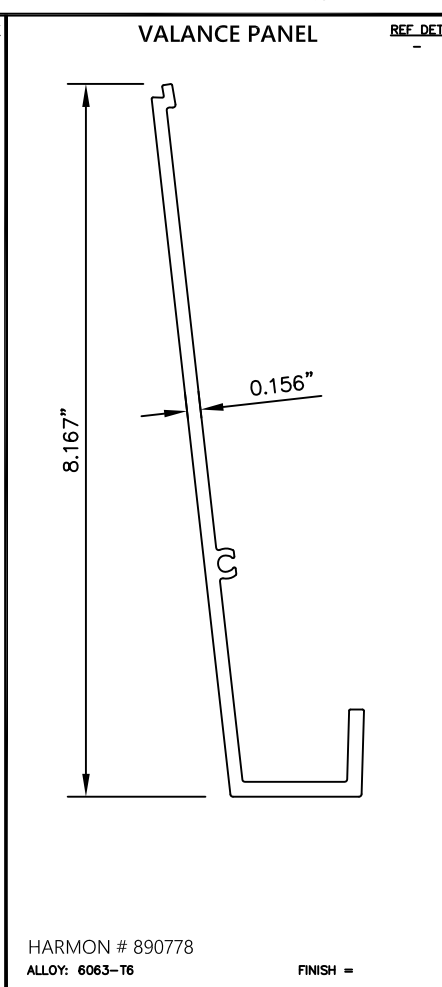
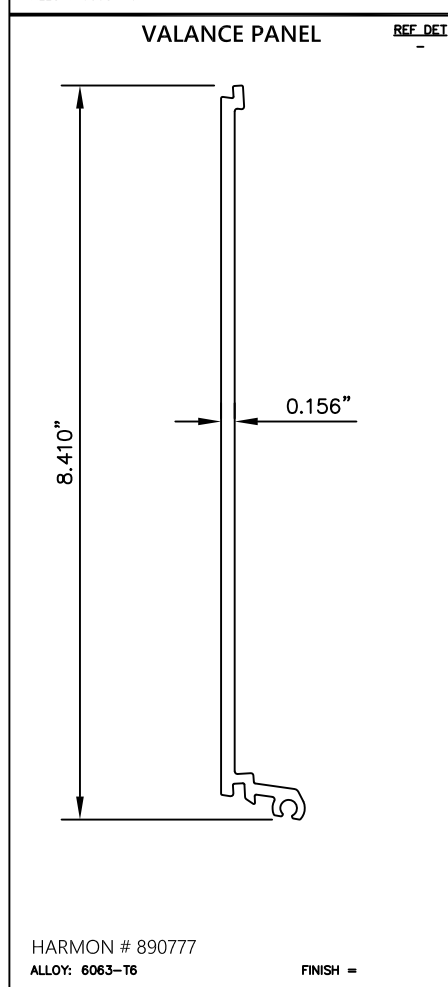
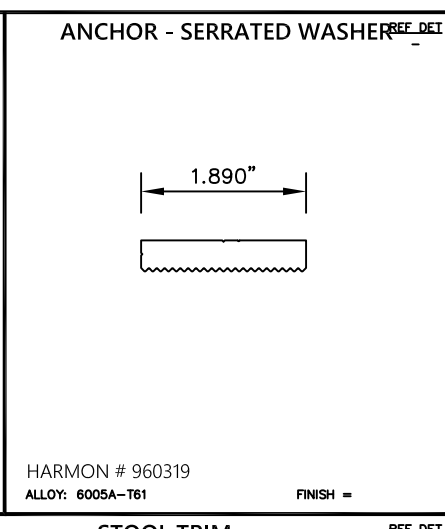
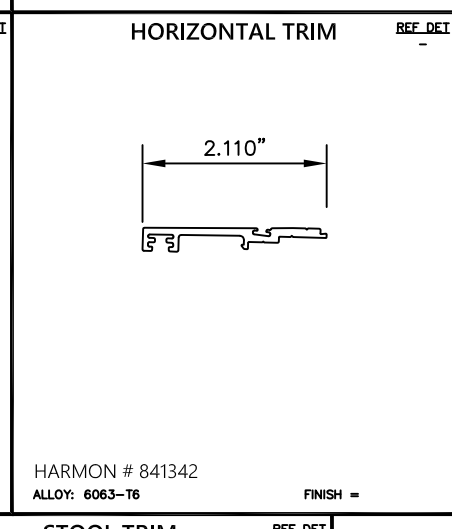
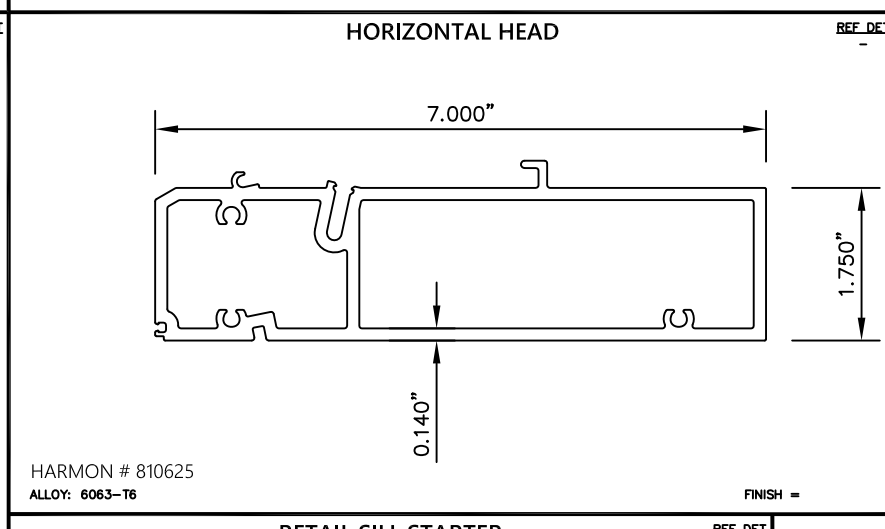
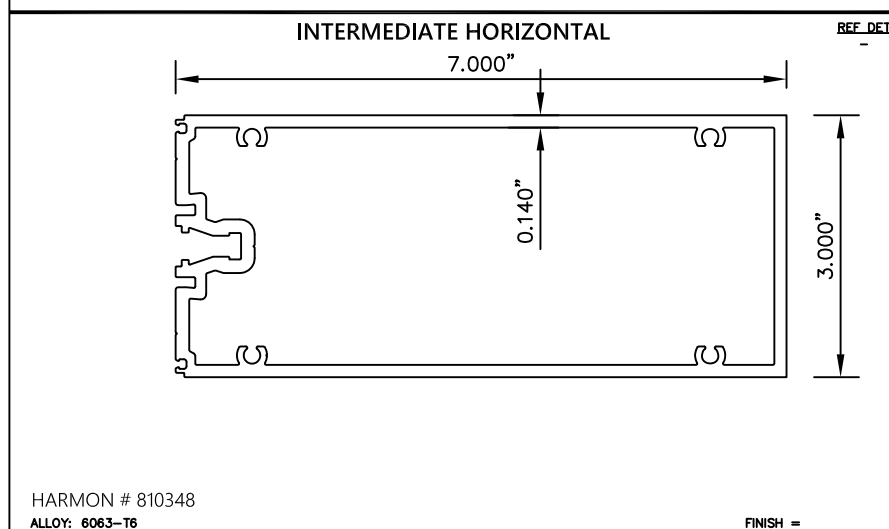
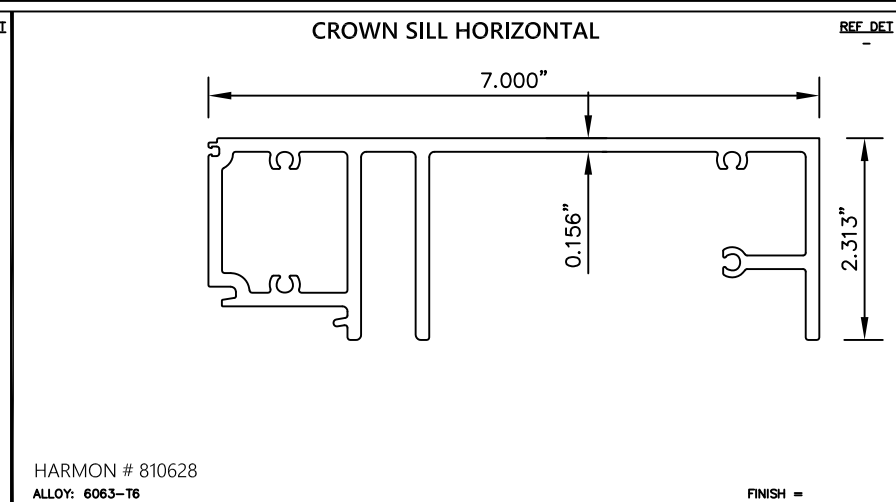
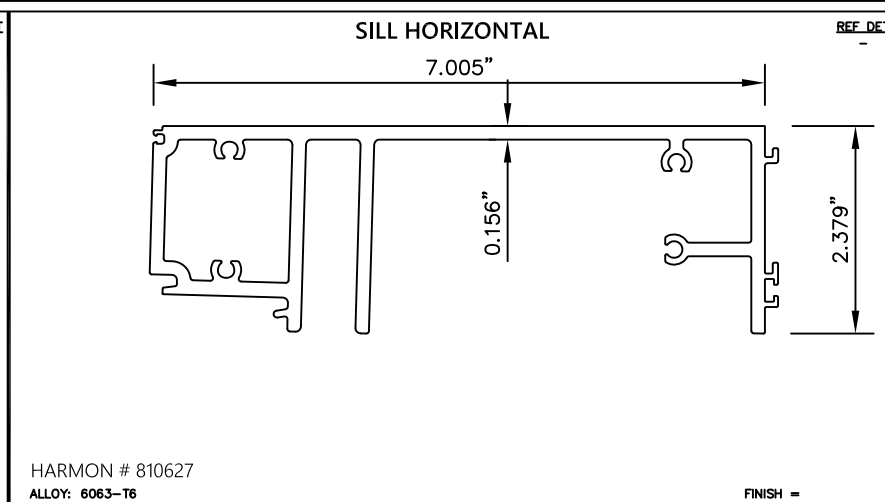
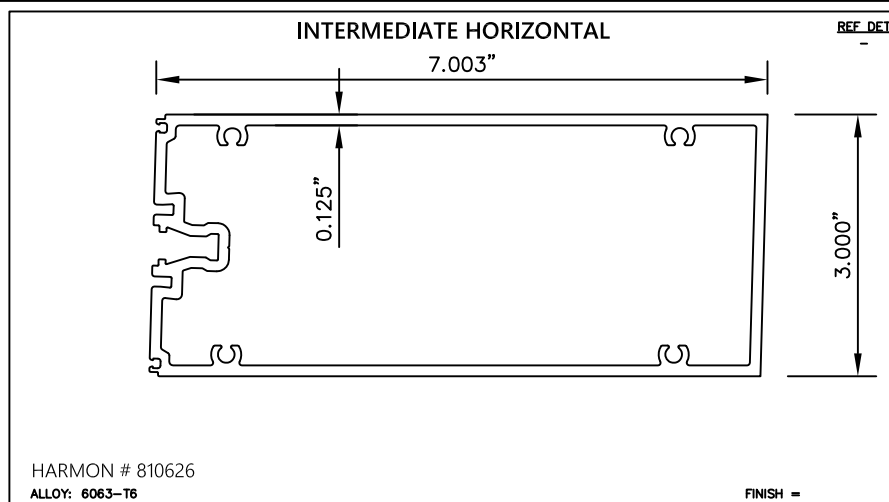
SEAL:

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FL PE# 62354

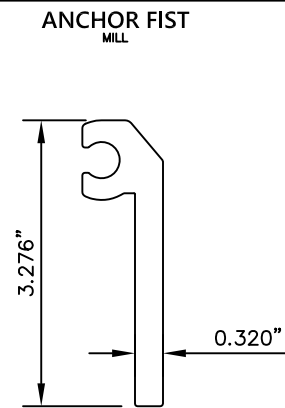
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

DWG: UCW8000i

SHEET: 24/27

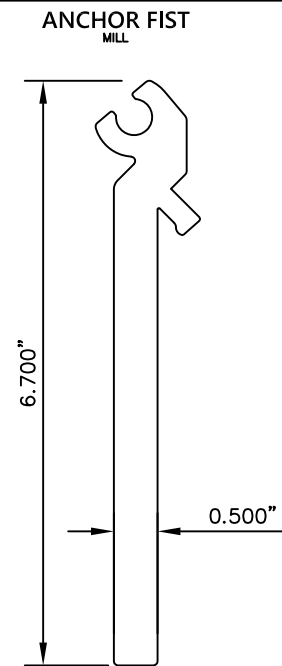


SEAL: SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982 SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982 PROFESSIONAL ENGINEER STATE OF FLORIDA 11/6/25	UCW8000i SERIES CURTAINWALL SYSTEM (LMI/SMI)		-	-
	HARMON® 550 WEST CYPRESS ROAD, SUITE 305 FORT LAUDERDALE, FL 33309 PH: (954) 809-6500 WWW.HARMONINC.COM		-	-
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	1ST SUBMITTAL		-	12/29/24
PRINTS ISSUED FOR		REV.#	DATE	
DWG:		UCW8000i		
SHEET:		26/27		



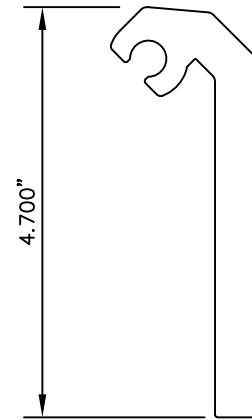
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HARMON # 980219
ALLOY: 6005A-T61

FINISH MILL



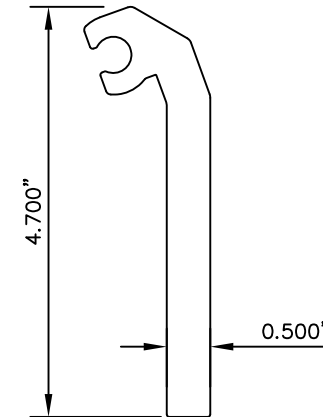
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HARMON # 980226
ALLOY: 6005A-T61

FINISH MILL



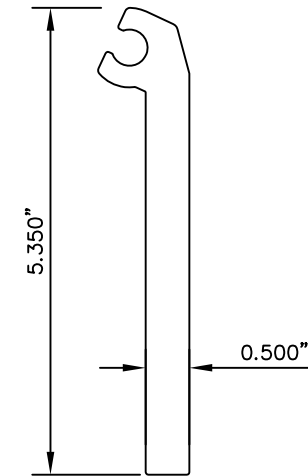
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HARMON # 980227
ALLOY: 6005A-T61

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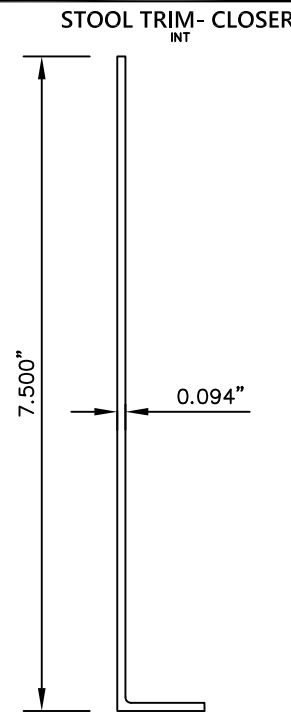
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HARMON # 980228
ALLOY: 6005A-T61

FINISH MIL



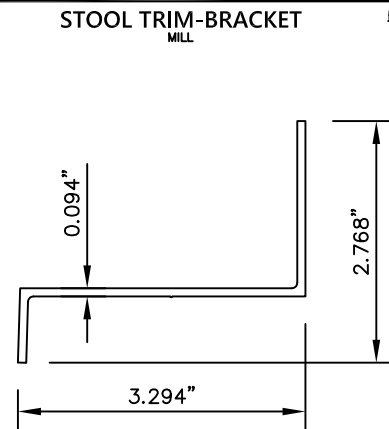
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HARMON # 980229
ALLOY: 6005A-T61

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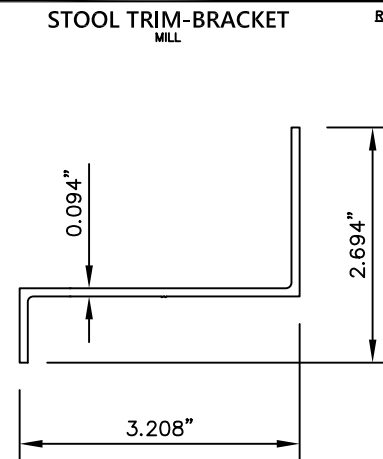
HARMON # 890875
ALLOY: 6063-T6

FINISH INT



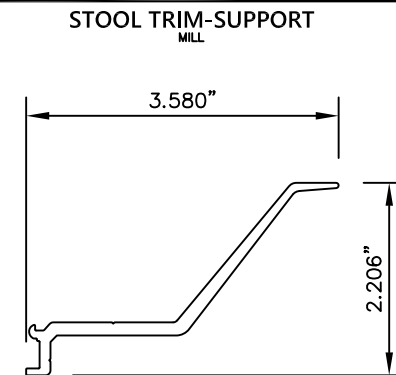
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FINISH MILL



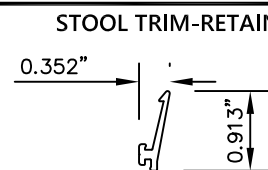
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ALLOY: 6063-T6

FINISH MILL



BONNELL # HCG-462
HARMON # 883402
ALLOY: 6063-T6

FINISH MIL



HARMON # 890877
ALLOY: 6063-T6

FINISH =



SEAL:

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
(561) 225-1982

DWG:

UCW8000i

SHEET:

27/27

UCW8000i SERIES CURTAINWALL SYSTEM (LMI/SMI)



550 WEST CYPRESS ROAD, SUITE 305
FORT LAUDERDALE, FL 33309

PH: (954) 809-6500
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