

KAWNEER COMPANY

1630 SS IR CURTAIN WALL (IMPACT)



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

TITLE: 1630 SS IR CURTAIN WALL
(IMPACT)
GENERAL AND INSTALLATION NOTES

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBERS OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITH OUT CONSIDERATION OF TOLERANCE). TOLERANCE ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- REFER TO SECTION 8 FOR ANCHOR TYPE, SUBSTRATE STRENGTH, EMBEDMENT, & EDGE DISTANCE REQUIREMENTS. FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS FOR INSTALLATION OF ANCHORS.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER. ADHESIVE ANCHORS MUST BE INSTALLED BY PERSONNEL CERTIFIED FOR THE SPECIFIED ANCHOR INSTALLATION.

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2018 IBC AND IRC.
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND STEEL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND THE INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITION CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- THIS PRODUCT **DOES NOT** REQUIRE IMPACT PROTECTIVE DEVICES.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2018 IBC AND IRC.

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6	GLAZING DETAILS
7	T & ANGLE ANCHOR DETAILS
8	DEAD/WIND LOAD ANCHOR DETAILS
9	COMPONENTS & BILL OF MATERIALS

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- | | |
|---------------|---|
| <u>STEP 1</u> | DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD. |
| <u>STEP 2</u> | SEE CHARTS ON SECTION 6 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE. |
| <u>STEP 3</u> | CHECK MULLION CAPACITY FOR A GIVEN SPACING, HEIGHT, SINGLE SPAN, TWIN SPAN, MULTIPLE SPANS AND CORNERS ON SECTION 4. |
| <u>STEP 4</u> | USING HEAD/SILL ANCHOR DETAILS, SELECT ANCHOR OPTION FROM TABLES ON SECTION 7 & 8 WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE. |
| <u>STEP 5</u> | CHECK INTERMEDIATE ANCHOR FOR MULTIPLE SPANS USING CHARTS OR DETAILS ON SECTION 8. |
| <u>STEP 6</u> | THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM. |

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TEXAS P.E. No. 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: **02.11.21**
DWG. BY: **E.R.** CHK. BY: **HFN**
SCALE: **NTS**
DWG. #: **KAW019**

SECTION:
1.0
[PAGE 1 OF 31]

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TITLE: 1630 SS IR CURTAIN WALL
(IMPACT)
ELEVATION

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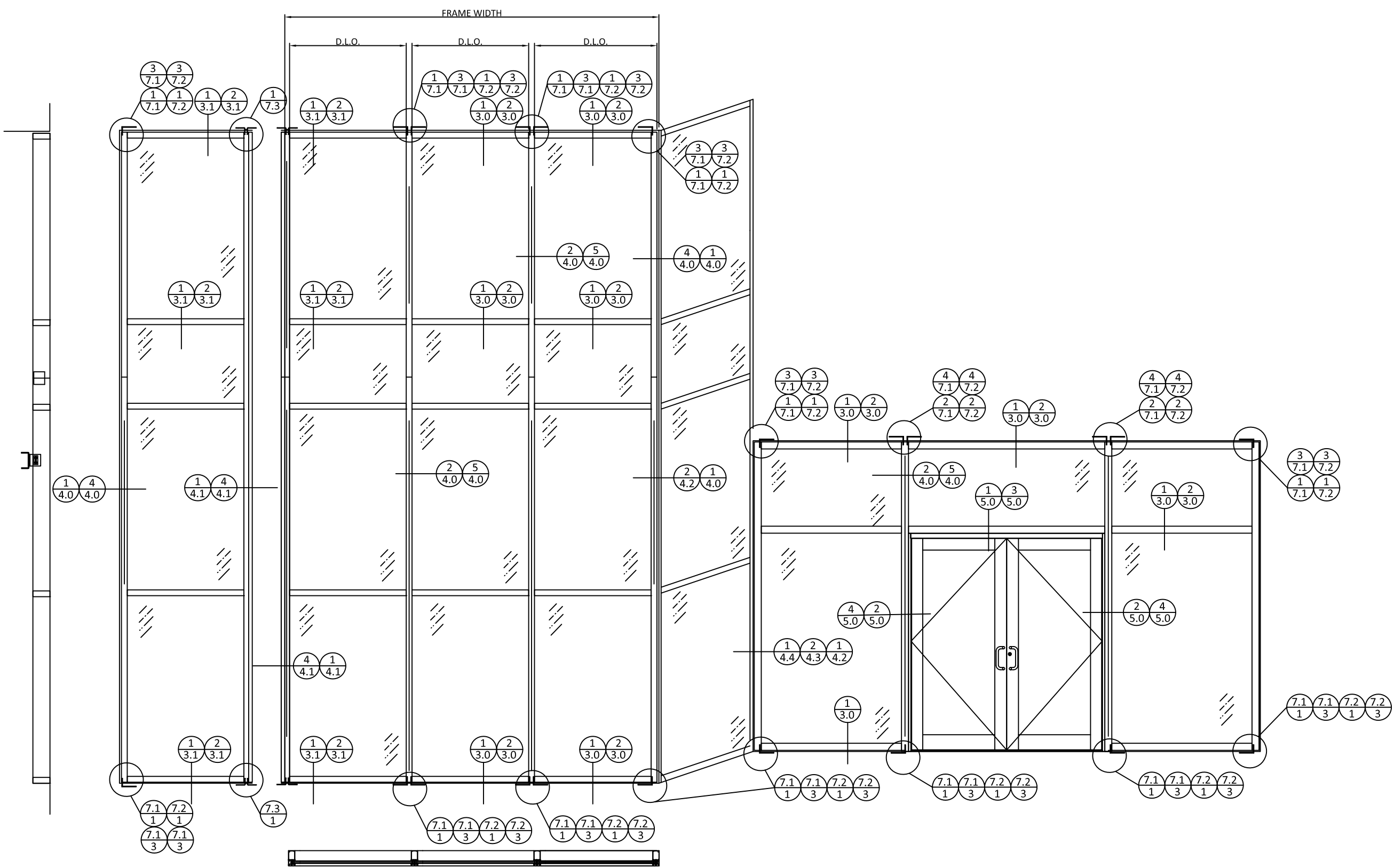
DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

DWG. #: KAW019

SECTION:

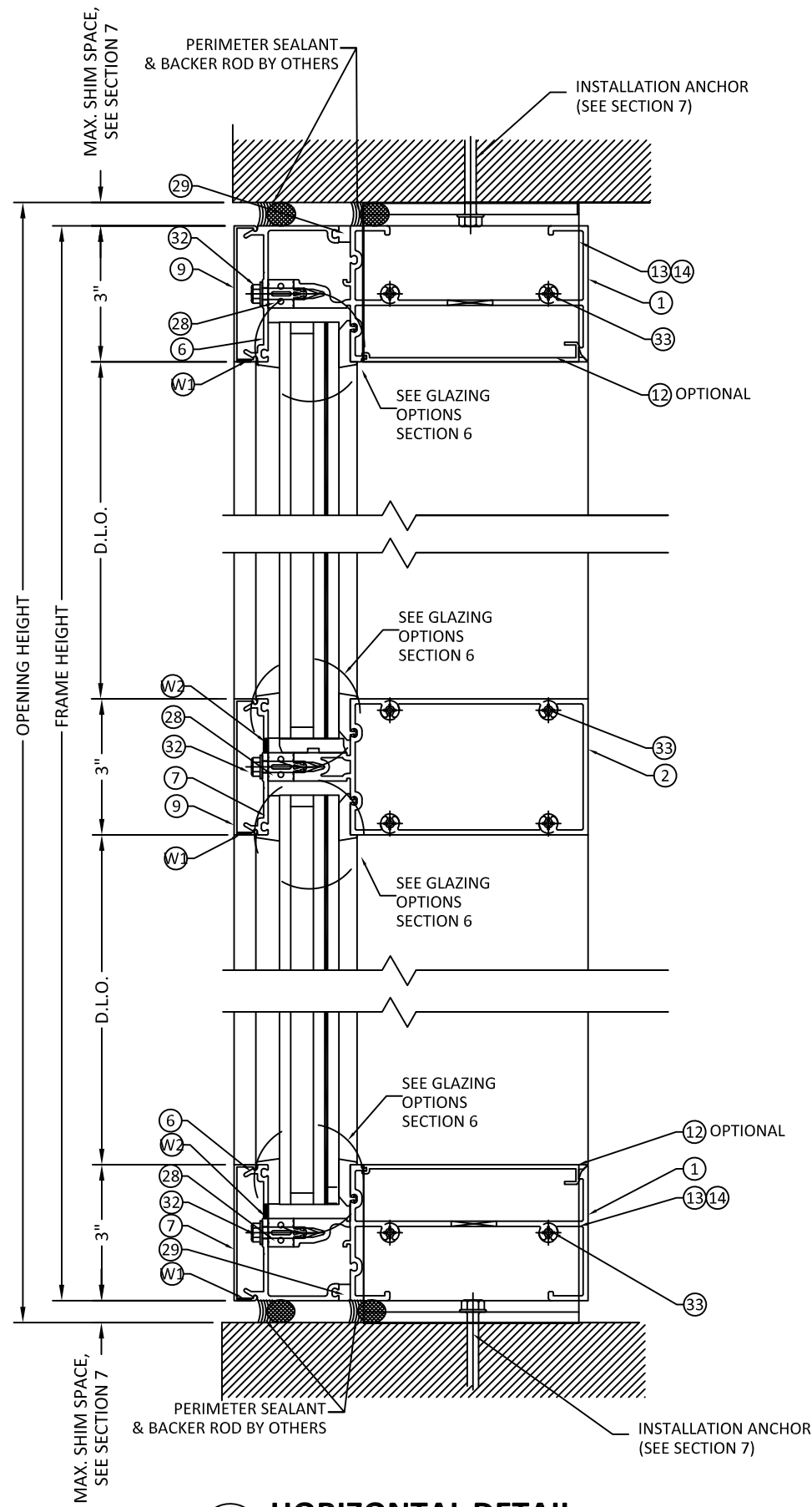
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TYPICAL ELEVATION

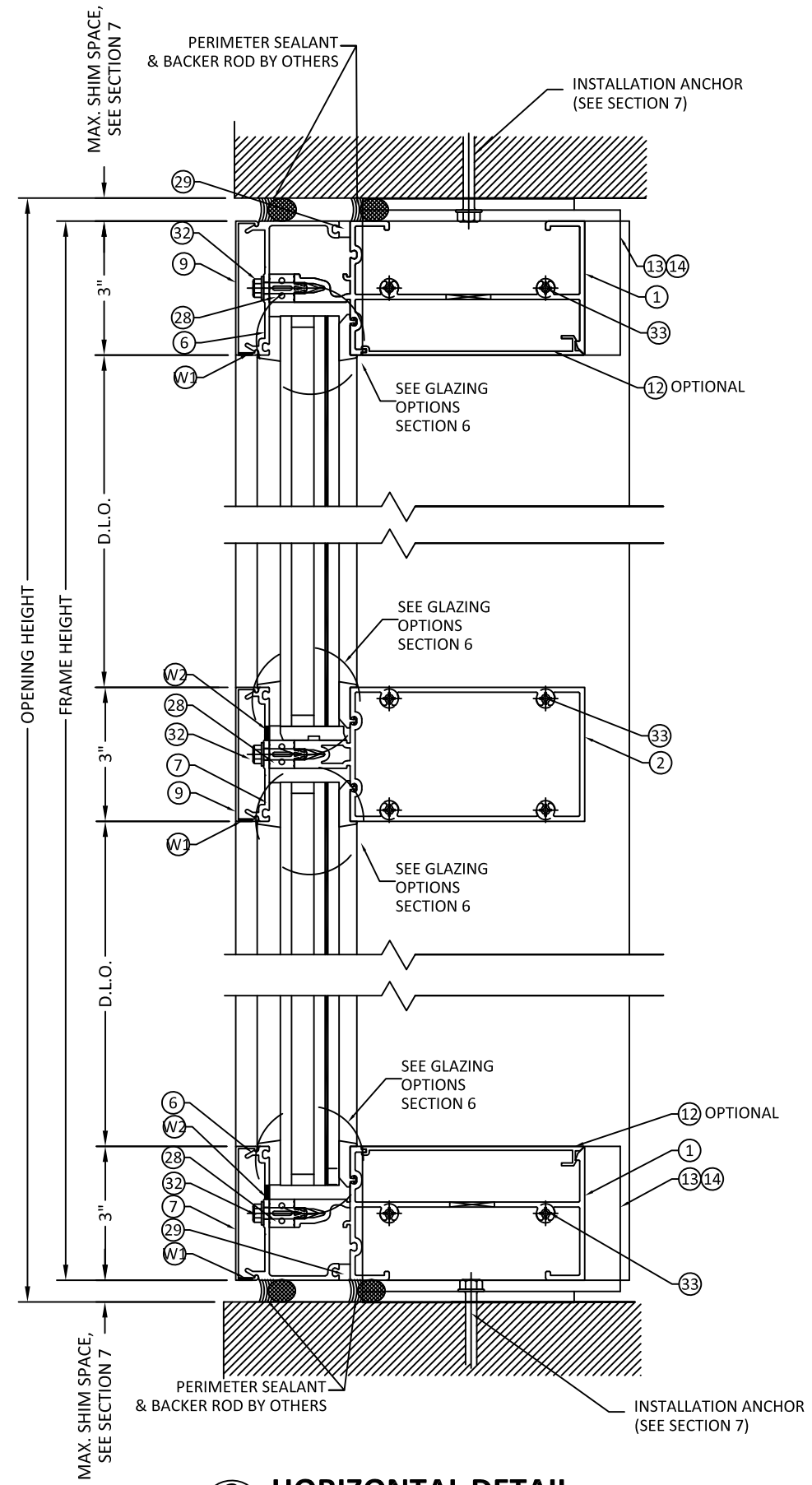
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HORIZONTAL DETAILS



1
3.0 HORIZONTAL DETAIL
7-13/16" SYSTEM

WEEPHOLES:
PRESSURE PLATES = 5/16" DIA. WEEP HOLES AT 20" O.C.
COVERS = 5/16" DIA. WEEP HOLES LOCATED AT 1/4 POINTS



2
3.0 HORIZONTAL DETAIL
8-13/16" SYSTEM



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VERTICAL SECTIONS

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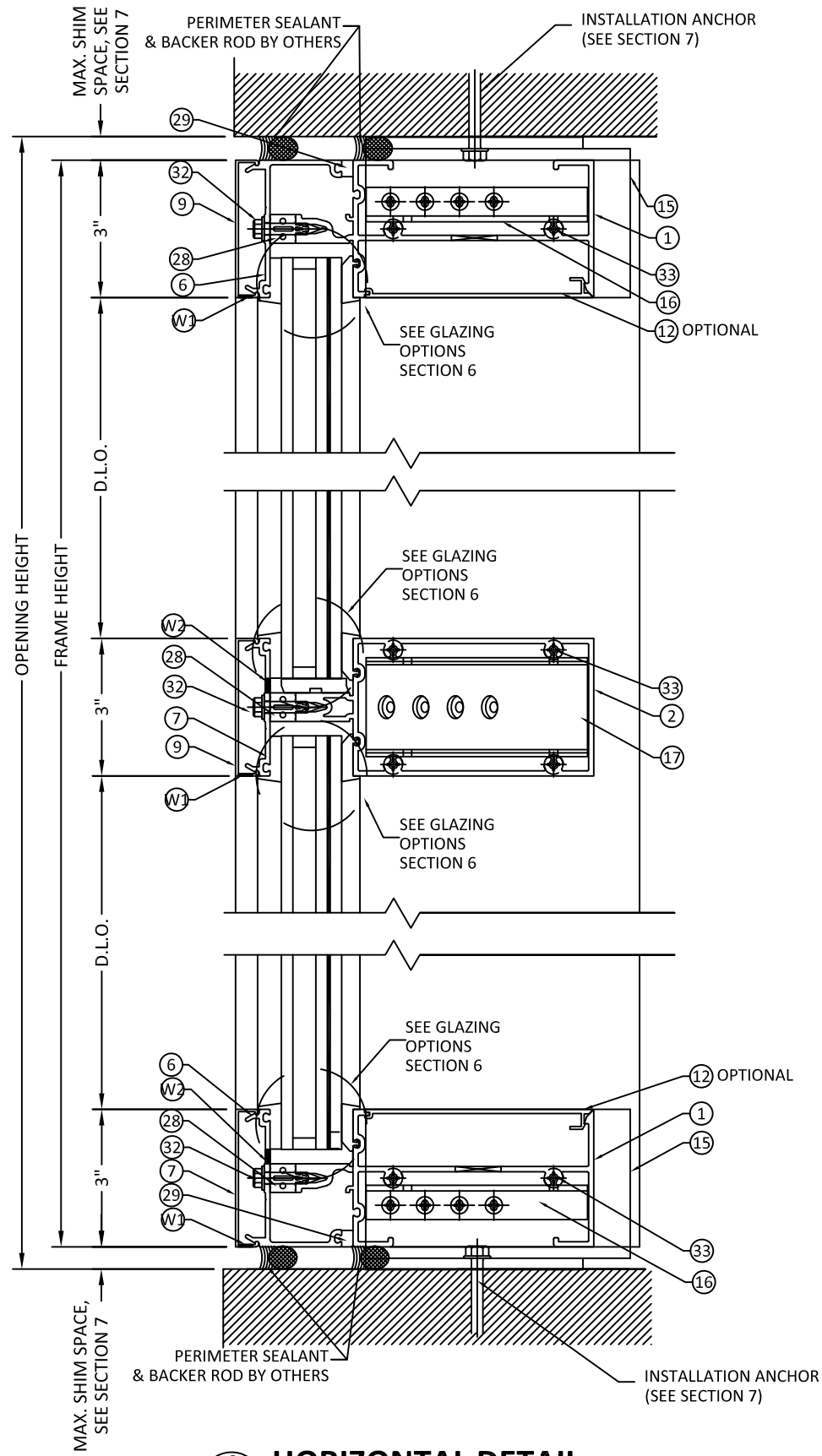
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SECTION:

3.1

HORIZONTAL DETAILS

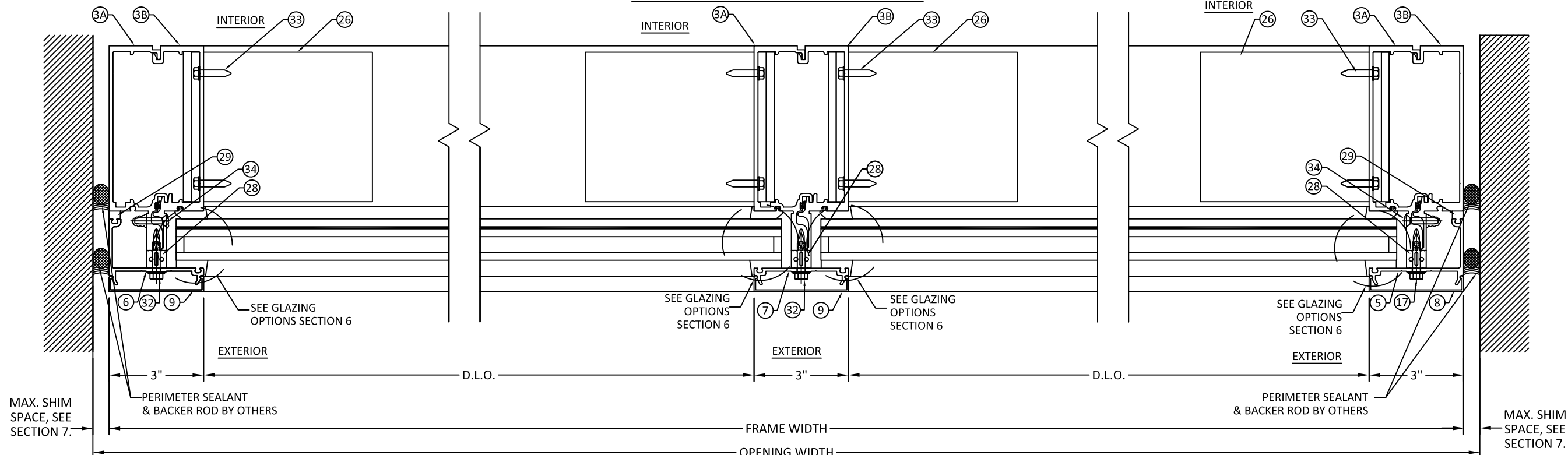


WEEPHOLES:
W1 = 5/16" DIA. WEEP HOLES TWO PER D.L. OPNG.
= AT 1/3 POINTS FROM VERTICALS
W2 = 5/16" DIA. WEEP HOLES ONE PER D.L. OPNG.
= AT CENTER OF D.L. OPNG.

1
3.1 HORIZONTAL DETAIL
8-13/16" SYSTEM
CORNER

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VERTICAL MULLION DETAILS



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SECTION:

4.0

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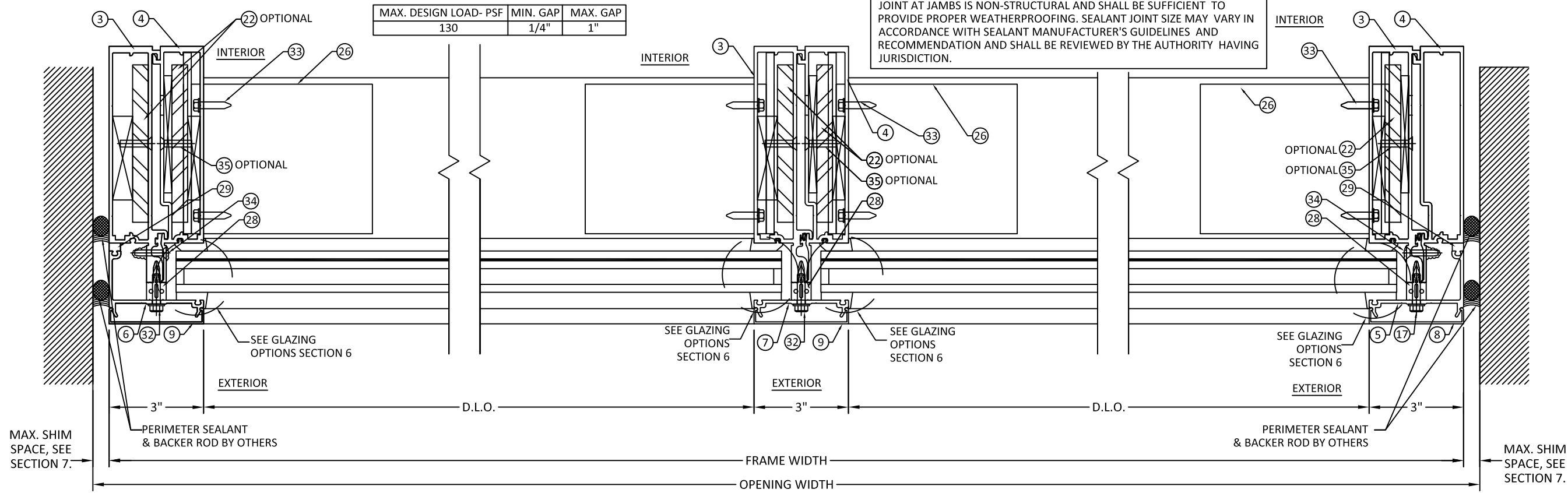
1
4.0 VERTICAL DETAIL
7-13/16" SYSTEM JAMB

2
4.0 VERTICAL DETAIL
7-13/16" SYSTEM INTERMEDIATE

3
4.0 VERTICAL DETAIL
7-13/16" SYSTEM JAMB

MAX. DESIGN LOAD- PSF	MIN. GAP	MAX. GAP
130	1/4"	1"

NOTE:
JOINT AT JAMBS IS NON-STRUCTURAL AND SHALL BE SUFFICIENT TO PROVIDE PROPER WEATHERPROOFING. SEALANT JOINT SIZE MAY VARY IN ACCORDANCE WITH SEALANT MANUFACTURER'S GUIDELINES AND RECOMMENDATION AND SHALL BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.



4
4.0 VERTICAL DETAIL
8-13/16" SYSTEM JAMB

5
4.0 VERTICAL DETAIL
8-13/16" SYSTEM INTERMEDIATE

6
4.0 VERTICAL DETAIL
8-13/16" SYSTEM JAMB

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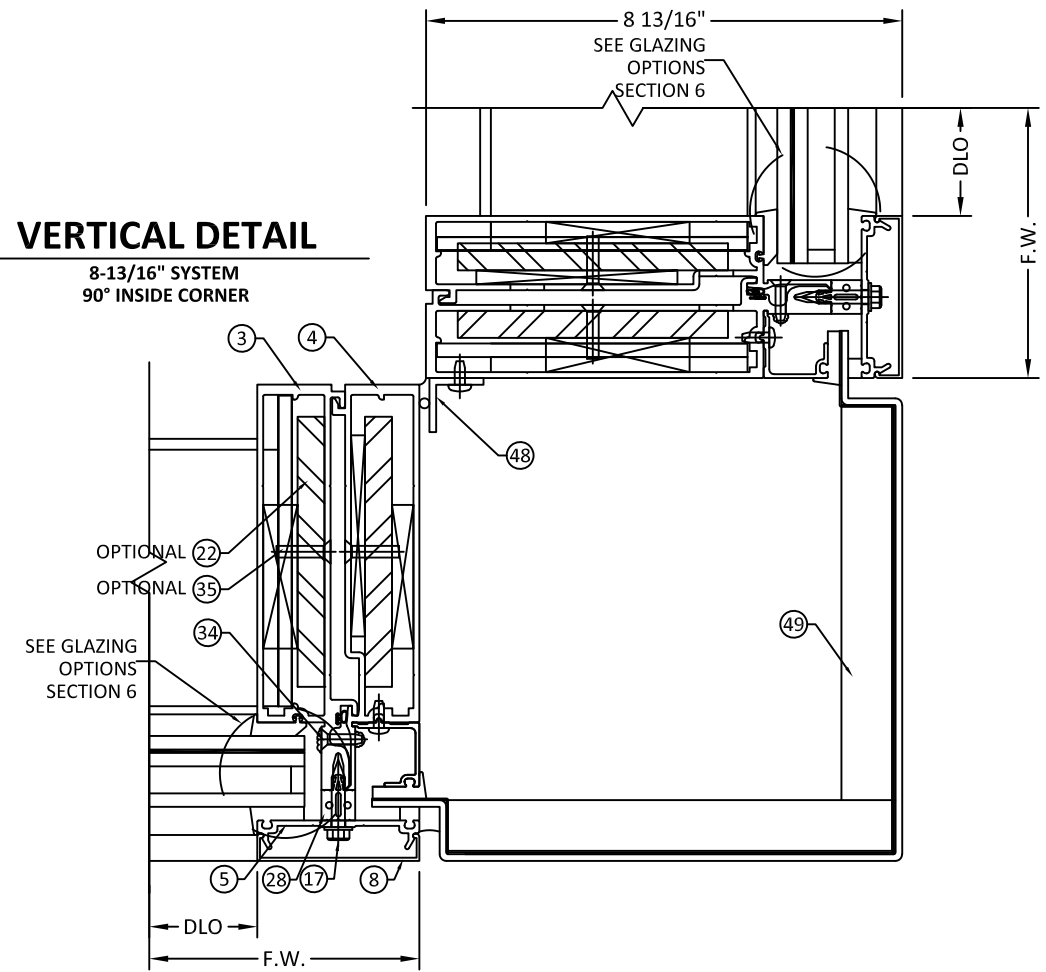
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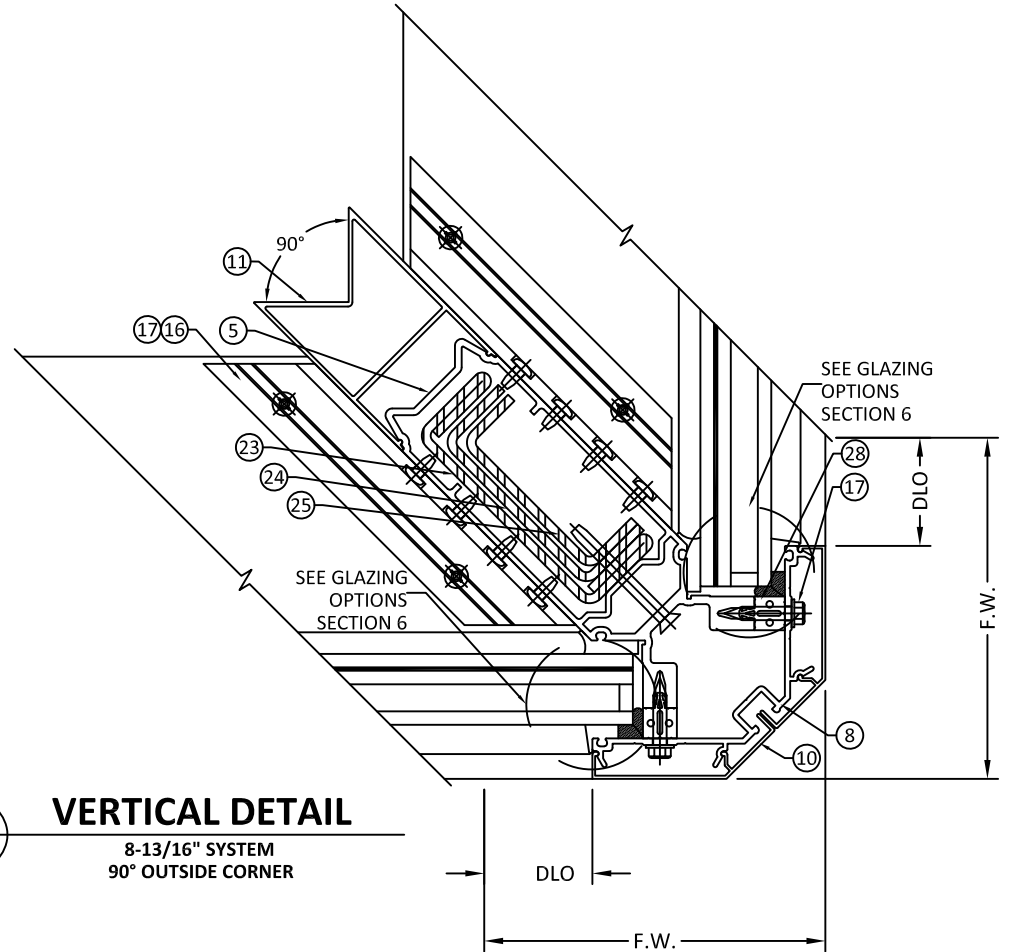
SECTION:

4.1

1
4.1 VERTICAL DETAIL
8-13/16" SYSTEM
90° INSIDE CORNER



2
4.1 VERTICAL DETAIL
8-13/16" SYSTEM
90° OUTSIDE CORNER



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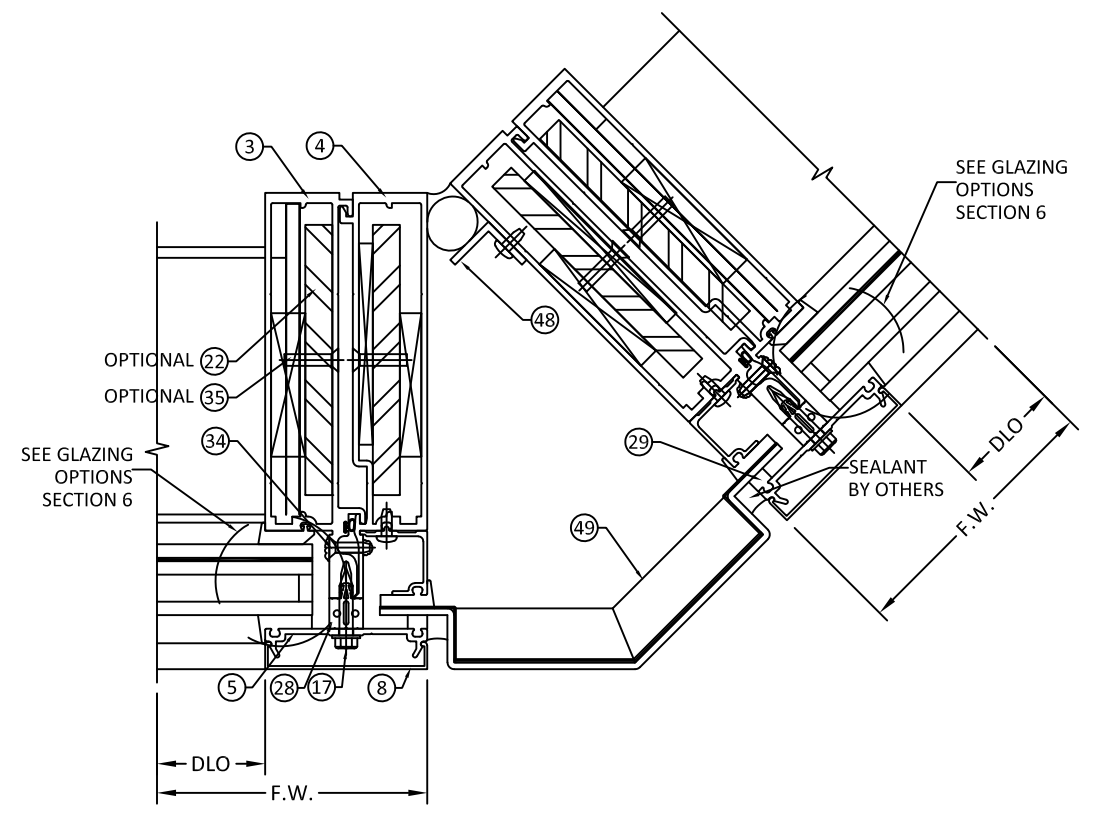
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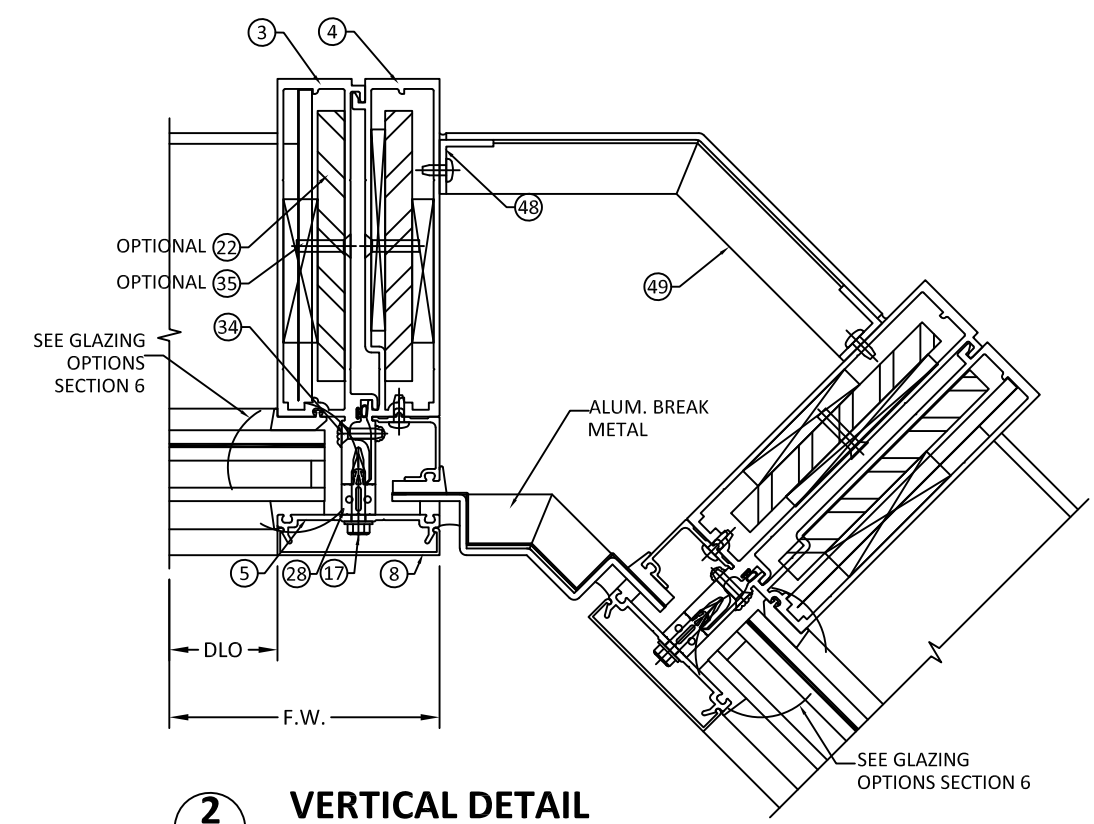
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SECTION:

4.2



1
4.2 VERTICAL DETAIL
8-13/16" SYSTEM
135° OUTSIDE CORNER

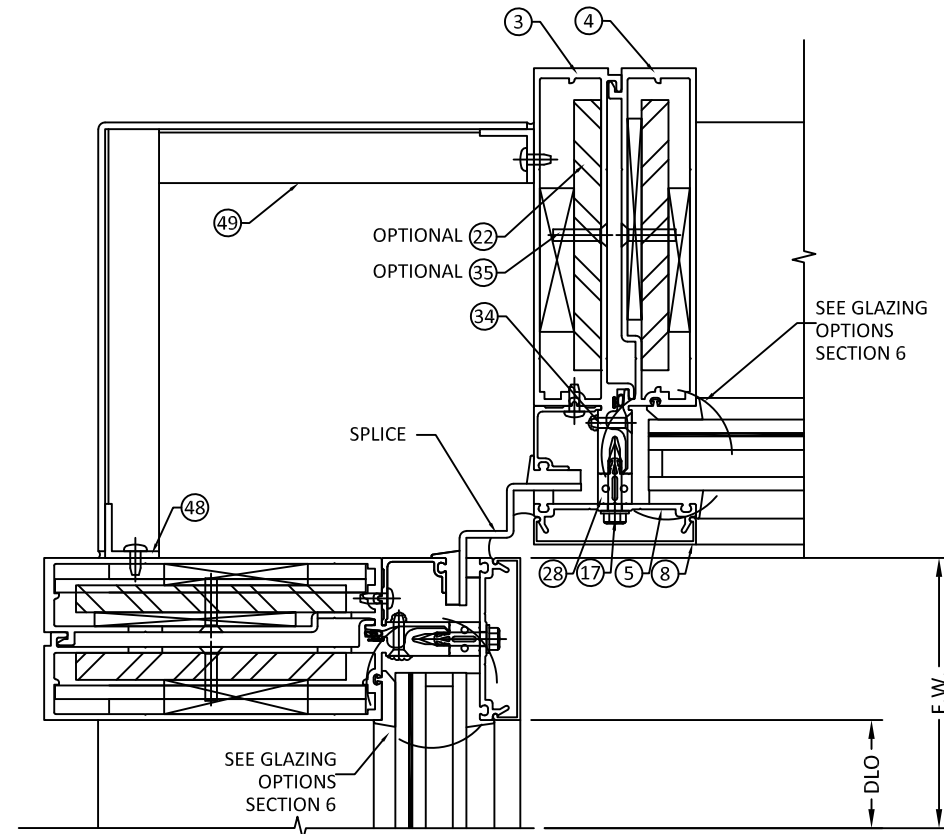


2
4.2 VERTICAL DETAIL
8-13/16" SYSTEM
135° INSIDE CORNER

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HORIZONTAL SECTIONS

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1
4.3 VERTICAL DETAIL
8-13/16" SYSTEM
90° INSIDE CORNER

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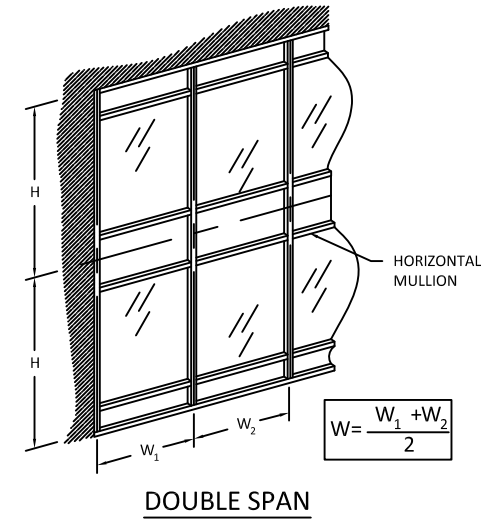
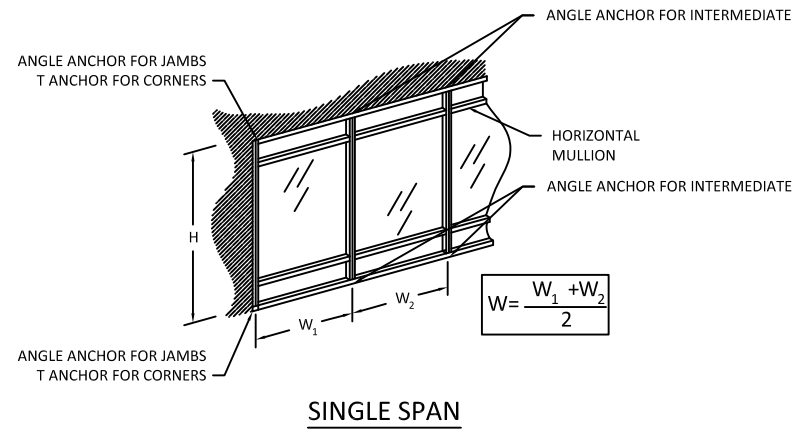
SECTION:
4.3
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STANDARD MULLION CAPACITY CHARTS

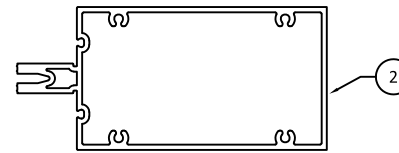
NOTES

- DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION CAPACITY PER THE 2018 IBC AND IRC.
- SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.
- FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.
- WHEN PANEL WIDTHS ARE NOT EQUAL, USE THE AVERAGE WIDTH ON THE CHART.



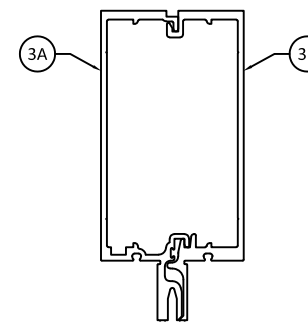
REINFORCING LENGTH = FRAME HEIGHT - 12 IN.

H1



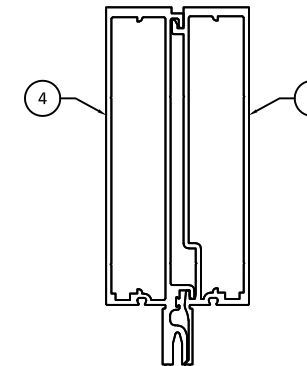
INTERMEDIATE HORIZONTAL
(176007)

M1



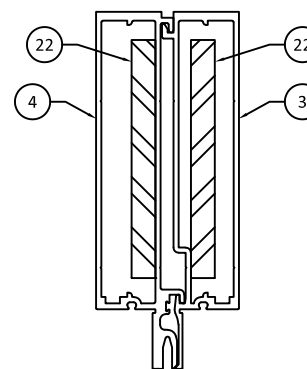
VERTICAL MULLION
(176001/ 176002)
7-13/16" SYSTEM

M2



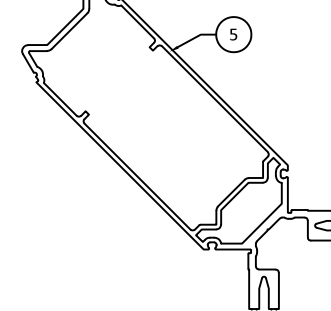
VERTICAL MULLION
(176003/ 176004)
8-13/16" SYSTEM

M3



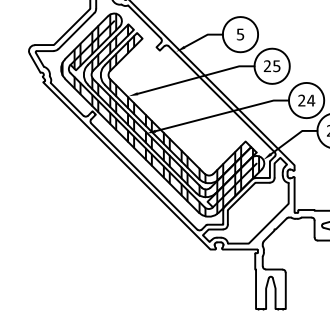
REINFORCED VERTICAL MULLION
(176003/ 176004)

M4



90° CORNER MULLION
(162277)

M5



REINFORCED 90° CORNER MULLION
(162277)

VERTICAL MEMBER SINGLE SPAN NOTES:

- DETAILS HAVE BEEN SHOWN FOR ILLUSTRATIVE PURPOSES. FOR DETAILS OF FULL ASSEMBLY PLEASE REFER TO APPLICABLE DETAILS ON SECTION 3 & 4.
- TABULATED DESIGN PRESSURE VALUES ARE BASED ON LIMITATIONS OF DEFLECTION, FIBERSTRESS, & END REACTION PER MULLION SPAN ('L') AND MULLION SPACING ('W').
- FOR SITE CONDITIONS WHICH EXCEED LIMITATIONS SHOWN, FURTHER ENGINEERING MAY BE REQUIRED ON A CASE BY CASE BASIS.
- FOR T OR F CLIP ANCHORS, PLEASE REFER TO SECTION 7 FOR ANCHOR SELECTION, SUBSTRATE REQUIREMENTS, AND FURTHER LIMITATIONS OF USE.



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SECTION:

4.4

STANDARD MULLION CAPACITY CHARTS

HORIZONTAL MULLION CAPACITY - ALLOWABLE DESIGN PRESSURE (PSF)		
NOMINAL DIMS.		MULLION H1
SPAN LENGTH (IN)	BAY HEIGHT (IN)	EXT. (+) INT. (-)
72	72	130.0
	78	130.0
	84	130.0
	90	130.0
	96	130.0
	102	130.0
	108	130.0
78	72	130.0
	78	130.0
	84	130.0
	90	130.0
	96	130.0
	102	130.0
	108	130.0
84	72	130.0
	78	130.0
	84	130.0
	90	130.0
	96	130.0
	102	130.0
	108	130.0
90	72	130.0
	78	130.0
	84	130.0
	90	130.0
	96	130.0
	102	130.0
	108	130.0
96	72	118.8
	78	114.2
	84	111.0
	90	109.2
	96	108.5
	102	108.5
	108	108.5



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PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



HERMES F. NORERO, P.E.
TEXAS P.E. No 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21
DWG. BY: E.R. CHK. BY: HFN
SCALE: NTS
DWG. #: KAW019

SECTION: 4.5

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STANDARD MULLION CAPACITY CHARTS



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
MULLION CAPACITY CHART

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
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HERMES F. NORERO, P.E.
TEXAS P.E. No. 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE:	02.11.21	
DWG. BY:	E.R.	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	KAW019	

SECTION: 4.6
[PAGE 11 OF 31]

VERTICAL MULLION CAPACITY - ALLOWABLE DESIGN PRESSURE (PSF)				
NOMINAL DIMS.		MULLION M1	MULLION M2	
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
48	96	70.0	130.0	
54		70.0	130.0	
60		70.0	130.0	
63		70.0	130.0	
66		70.0	126.2	
69		70.0	122.8	
72		68.9	119.9	
78		66.7	115.3	
84		64.8	112.1	
90		63.8	110.2	
96		63.4	109.6	
48		99	70.0	130.0
54			70.0	130.0
60			70.0	121.1
63	70.0		117.2	
66	70.0		113.8	
69	69.0		110.9	
72	66.1		108.3	
78	61.7		104.2	
84	59.8		101.3	
90	58.5		99.5	
96	57.9		98.5	
48	102		70.0	130.0
54			70.0	118.5
60			70.0	109.7
66		70.0	102.9	
69		67.0	100.1	
72		64.2	97.7	
78		59.2	93.8	
84		55.0	90.9	
90		53.1	88.9	
96		52.4	87.7	
48		108	70.0	108.5
54			70.0	98.6
60			70.0	90.9
66			66.1	85.0
69	63.2		82.5	
72	60.6		80.4	
78	55.9		76.8	
84	51.9		74.0	
90	48.5		72.0	
96	45.5		70.6	

VERTICAL MULLION CAPACITY - ALLOWABLE DESIGN PRESSURE (PSF)				
NOMINAL DIMS.		MULLION M1	MULLION M2	
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
48	114	70.0	91.5	
54		70.0	82.9	
60		68.9	76.3	
66		62.6	71.1	
69		59.9	68.9	
72		57.4	67.0	
78		53.0	63.7	
84		49.2	61.2	
90		45.9	59.2	
96		43.1	57.8	
48		120	70.0	77.9
54			70.0	70.4
60			65.5	64.7
66			59.5	60.1
69	56.9		58.2	
72	54.5		56.5	
78	50.3		53.6	
84	46.8		51.2	
90	43.6		49.4	
96	40.9		48.0	
48	126		70.0	66.8
54			69.3	60.4
60			62.3	55.3
66			56.7	51.3
69		54.2	49.6	
72		51.9	48.1	
78		47.9	45.5	
84		44.5	43.4	
90		41.6	41.7	
96		39.0	40.3	
48		132	70.0	57.8
51			70.0	54.8
54			66.1	52.2
60			59.5	47.7
66	54.1		44.2	
69	51.7		42.7	
72	49.6		41.3	
78	45.8		39.0	
84	42.5		37.1	
90	39.7		35.5	
96	37.2		34.3	

VERTICAL MULLION CAPACITY - ALLOWABLE DESIGN PRESSURE (PSF)				
NOMINAL DIMS.		MULLION M1	MULLION M2	
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
48	138	65.1	50.4	
54		57.9	45.4	
60		52.1	41.5	
66		47.3	38.3	
69		45.3	37.0	
72		43.4	35.8	
78		40.1	33.7	
84		37.2	32.0	
90		34.7	30.6	
96		32.5	29.4	
48		144	57.3	44.2
54			50.9	39.7
60			45.8	36.3
66			41.7	33.5
69	39.9		32.3	
72	38.2		31.2	
78	35.3		29.3	
84	32.7		27.8	
90	30.6		26.5	
96	28.6		25.4	
48	150		50.7	38.9
54			45.1	35.0
60			40.5	31.9
66			36.9	29.4
69		35.3	28.3	
72		33.8	27.4	
78		31.2	25.7	
84		29.0	24.3	
90		27.0	23.1	
96		25.3	22.2	
48		156	45.1	34.5
54			40.1	31.0
60			36.0	28.2
66			32.8	26.0
69	31.3		25.0	
72	30.0		24.2	
78	27.7		22.6	
84	25.7		21.4	
90	24.0		20.3	
96	22.5		19.4	

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STANDARD MULLION CAPACITY CHARTS

VERTICAL MULLION CAPACITY - SINGLE SPAN (PSF)		
NOMINAL DIMS.		MULLION M3
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)
63	96	130.0
66		130.0
72		130.0
78		130.0
84		130.0
90		130.0
96		128.0
63		102
66	130.0	
72	130.0	
78	130.0	
84	130.0	
90	128.5	
96	120.4	
63	108	
66		130.0
72		130.0
78		130.0
84		130.0
90		121.3
96		113.8
63		114
66	130.0	
72	130.0	
78	130.0	
84	123.2	
90	114.9	
96	107.8	
63	120	
66		130.0
72		130.0
78		126.0
84		117.0
90		109.2
96		102.4
63		126
66	130.0	
72	130.0	
78	120.0	
84	111.4	
90	104.0	
96	97.5	

VERTICAL MULLION CAPACITY - SINGLE SPAN (PSF)		
NOMINAL DIMS.		MULLION M3
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)
63	132	130.0
66		130.0
72		124.1
78		114.5
84		106.4
90		99.3
96		93.1
63		138
66	129.5	
72	118.7	
78	109.6	
84	101.7	
90	95.0	
96	89.0	
63	144	
66		124.1
72		113.8
78		105.0
84		97.5
90		91.0
96		85.3
63		150
66	109.8	
72	100.6	
78	92.9	
84	86.3	
90	80.5	
96	75.5	
63	156	
66		97.6
72		89.5
78		82.6
84		76.7
90		71.6
96		67.1

VERTICAL MULLION CAPACITY - SINGLE SPAN (PSF)		
NOMINAL DIMS.		MULLION M3
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)
63	168	81.9
66		78.1
72		71.6
78		66.1
84		61.4
90		57.3
96		53.7
63		180
66	63.5	
72	58.2	
78	53.8	
84	49.9	
90	46.6	
96	43.7	
63	192	
66		52.4
72		48.0
78		44.3
84		41.1
90		38.4
96		36.0
63		204
66	43.6	
72	40.0	
78	36.9	
84	34.3	
90	32.0	
96	30.0	
63	216	
66		36.8
72		33.7
78		31.1
84		28.9
90		27.0
96		25.3



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
MULLION CAPACITY CHART

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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TEXAS P.E. No. 118471
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

DWG. #: KAW019

SECTION: 4.7

[PAGE 12 OF 31]

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STANDARD MULLION CAPACITY CHARTS

VERTICAL MULLION CAPACITY - DOUBLE SPAN (PSF)		
NOMINAL DIMS.		MULLION M3
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)
63	96	130.0
66		130.0
72		130.0
78		130.0
84		130.0
90		130.0
96		130.0
63		102
66	130.0	
72	130.0	
78	130.0	
84	130.0	
90	130.0	
96	130.0	
63	108	
66		130.0
72		130.0
78		130.0
84		130.0
90		130.0
96		130.0
63		114
66	130.0	
72	130.0	
78	130.0	
84	130.0	
90	130.0	
96	125.7	
63	120	
66		130.0
72		130.0
78		130.0
84		130.0
90		127.4
96		119.4
63		126
66	130.0	
72	130.0	
78	130.0	
84	130.0	
90	121.3	
96	113.8	

VERTICAL MULLION CAPACITY - DOUBLE SPAN (PSF)		
NOMINAL DIMS.		MULLION M3
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)
63	132	130.0
66		130.0
72		130.0
78		130.0
84		124.1
90		115.8
96		108.6
63		138
66	130.0	
72	130.0	
78	127.7	
84	118.5	
90	110.6	
96	103.7	
63	144	
66		130.0
72		127.0
78		117.2
84		108.9
90		101.6
96		95.3
63		150
66	127.7	
72	117.1	
78	108.1	
84	100.3	
90	93.6	
96	87.8	
63	156	
66		118.1
72		108.2
78		99.9
84		92.8
90		86.6
96		81.2

VERTICAL MULLION CAPACITY - DOUBLE SPAN (PSF)		
NOMINAL DIMS.		MULLION M3
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)
63	168	106.7
66		101.8
72		93.3
78		86.1
84		80.0
90		74.7
96		70.0
63		180
66	88.7	
72	81.3	
78	75.0	
84	69.7	
90	65.0	
96	61.0	
63	192	
66		77.9
72		71.4
78		66.0
84		61.2
90		57.2
96		53.6
63		204
66	69.0	
72	63.3	
78	58.4	
84	54.2	
90	50.6	
96	47.5	
63	216	
66		58.4
72		53.5
78		49.4
84		45.9
90		42.8
96		40.1



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
MULLION CAPACITY CHART

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
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REMARKS	BY	DATE

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398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

DWG. #: KAW019

SECTION: 4.8

[PAGE 13 OF 31]

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STANDARD MULLION CAPACITY CHARTS



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

CORNER MULLION CAPACITY - SINGLE SPAN (PSF)			
NOMINAL DIMS.		MULLION M4	MULLION M5
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
63	96	87.1	130.0
66		83.1	130.0
72		76.2	130.0
78		70.3	130.0
84		65.3	121.7
90		61.0	113.6
96		57.1	106.5
63		102	77.1
66	73.6		130.0
72	67.5		125.8
78	62.3		116.1
84	57.9		107.8
90	54.0		100.7
96	50.6		94.4
63	108		68.8
66		65.7	122.4
72		60.2	112.2
78		55.6	103.6
84		51.6	96.2
90		48.2	89.8
96		45.2	84.2
63		114	61.8
66	58.9		109.9
72	54.0		100.7
78	49.9		93.0
84	46.3		86.3
90	43.2		80.6
96	40.5		75.5
63	120		55.7
66		53.2	99.2
72		48.8	90.9
78		45.0	83.9
84		41.8	77.9
90		39.0	72.7
96		36.6	68.2
63		126	50.5
66	48.3		89.9
72	44.2		82.4
78	40.8		76.1
84	37.9		70.7
90	35.4		66.0
96	33.2		61.8

CORNER MULLION CAPACITY - SINGLE SPAN (PSF)			
NOMINAL DIMS.		MULLION M4	MULLION M5
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
63	132	46.1	85.9
66		44.0	82.0
72		40.3	75.1
78		37.2	69.3
84		34.5	64.4
90		32.2	60.1
96		30.2	56.3
63		138	42.1
66	40.2		75.0
72	36.9		68.7
78	34.0		63.4
84	31.6		58.9
90	29.5		55.0
96	27.7		51.6
63	144		38.2
66		36.4	68.9
72		33.4	63.1
78		30.8	58.3
84		28.6	54.1
90		26.7	50.5
96		25.0	47.3
63		150	33.8
66	32.2		63.5
72	29.5		58.2
78	27.3		53.7
84	25.3		49.9
90	23.6		46.5
96	22.2		43.6
63	156		30.0
66		28.6	58.7
72		26.3	53.8
78		24.2	49.6
84		22.5	46.1
90		21.0	43.0
96		19.7	40.3

CORNER MULLION CAPACITY - SINGLE SPAN (PSF)			
NOMINAL DIMS.		MULLION M4	MULLION M5
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
63	168	24.0	53.0
66		22.9	50.6
72		21.0	46.4
78		19.4	42.8
84		18.0	39.8
90		16.8	37.1
96		15.8	34.8
63		180	19.5
66	18.6		42.2
72	17.1		38.7
78	15.8		35.7
84	14.7		33.1
90	13.7		30.9
96	12.8		29.0
63	192		16.1
66		15.4	34.8
72		14.1	31.9
78		13.0	29.4
84		12.1	27.3
90		11.3	25.5
96		10.6	23.9
63		204	13.4
66	12.8		29.0
72	11.7		26.6
78	10.8		24.5
84	10.1		22.8
90	9.4		21.2
96	8.8		19.9
63	216		11.3
66		10.8	24.4
72		9.9	22.4
78		9.1	20.7
84		8.5	19.2
90		7.9	17.9
96		7.4	16.8

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
MULLION CAPACITY CHART

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
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WEB: www.buildingdrops.com

REMARKS	BY	DATE

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HERMES F. NORERO, P.E.
TEXAS P.E. No. 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21
DWG. BY: E.R. CHK. BY: HFN
SCALE: NTS
DWG. #: KAW019
SECTION: 4.9
[PAGE 14 OF 31]

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STANDARD MULLION CAPACITY CHARTS



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

CORNER MULLION CAPACITY - DOUBLE SPAN (PSF)			
NOMINAL DIMS.		MULLION M4	MULLION M5
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
63	96	87.1	130.0
66		83.1	130.0
72		76.2	130.0
78		70.3	130.0
84		65.3	121.7
90		61.0	113.6
96		57.1	106.5
63		102	77.1
66	73.6		130.0
72	67.5		125.8
78	62.3		116.1
84	57.9		107.8
90	54.0		100.7
96	50.6		94.4
63	108		68.8
66		65.7	122.4
72		60.2	112.2
78		55.6	103.6
84		51.6	96.2
90		48.2	89.8
96		45.2	84.2
63		114	61.8
66	58.9		109.9
72	54.0		100.7
78	49.9		93.0
84	46.3		86.3
90	43.2		80.6
96	40.5		75.5
63	120		55.7
66		53.2	99.2
72		48.8	90.9
78		45.0	83.9
84		41.8	77.9
90		39.0	72.7
96		36.6	68.2
63		126	50.5
66	48.3		89.9
72	44.2		82.4
78	40.8		76.1
84	37.9		70.7
90	35.4		66.0
96	33.2		61.8

CORNER MULLION CAPACITY - DOUBLE SPAN (PSF)			
NOMINAL DIMS.		MULLION M4	MULLION M5
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
63	132	46.1	85.9
66		44.0	82.0
72		40.3	75.1
78		37.2	69.3
84		34.5	64.4
90		32.2	60.1
96		30.2	56.3
63		138	42.1
66	40.2		75.0
72	36.9		68.7
78	34.0		63.4
84	31.6		58.9
90	29.5		55.0
96	27.7		51.6
63	144		38.7
66		36.9	68.9
72		33.9	63.1
78		31.3	58.3
84		29.0	54.1
90		27.1	50.5
96		25.4	47.3
63		150	35.7
66	34.0		63.5
72	31.2		58.2
78	28.8		53.7
84	26.8		49.9
90	25.0		46.5
96	23.4		43.6
63	156		33.0
66		31.5	58.7
72		28.9	53.8
78		26.6	49.6
84		24.7	46.1
90		23.1	43.0
96		21.6	40.3

CORNER MULLION CAPACITY - DOUBLE SPAN (PSF)			
NOMINAL DIMS.		MULLION M4	MULLION M5
TRIBUTARY WIDTH (IN)	SPAN HEIGHT (IN)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
63	168	28.4	53.0
66		27.1	50.6
72		24.9	46.4
78		23.0	42.8
84		21.3	39.8
90		19.9	37.1
96		18.7	34.8
63		180	24.8
66	23.6		44.1
72	21.7		40.4
78	20.0		37.3
84	18.6		34.6
90	17.3		32.3
96	16.3		30.3
63	192		21.8
66		20.8	38.7
72		19.0	35.5
78		17.6	32.8
84		16.3	30.4
90		15.2	28.4
96		14.3	26.6
63		204	19.3
66	18.4		34.3
72	16.9		31.5
78	15.6		29.0
84	14.5		27.0
90	13.5		25.2
96	12.7		23.6
63	216		17.2
66		16.4	30.6
72		15.1	28.1
78		13.9	25.9
84		12.9	24.0
90		12.0	22.4
96		11.3	21.0

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
MULLION CAPACITY CHART

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



HERMES F. NORERO, P.E.
TEXAS P.E. No. 118471
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

DWG. #: KAW019

SECTION: 4.10

[PAGE 15 OF 31]

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TITLE: 1630 SS IR CURTAIN WALL
(IMPACT)
DOOR DETAILS

DOOR DETAILS

PREPARED BY:
B.D.
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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TEXAS P.E. No. 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

DWG. BY: E.R. CHK. BY: HFN

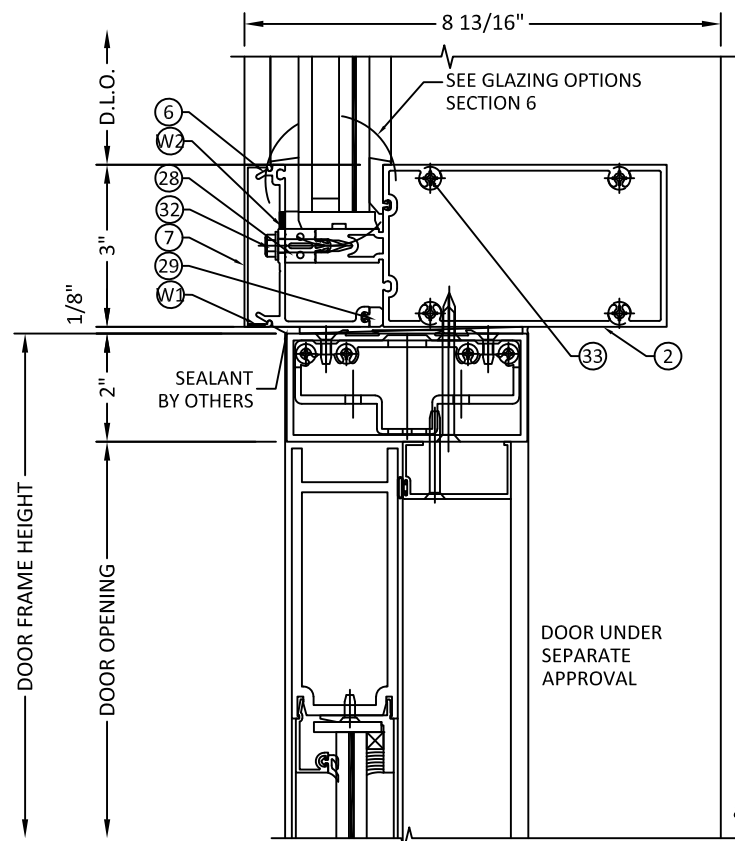
SCALE: NTS

DWG. #: KAW019

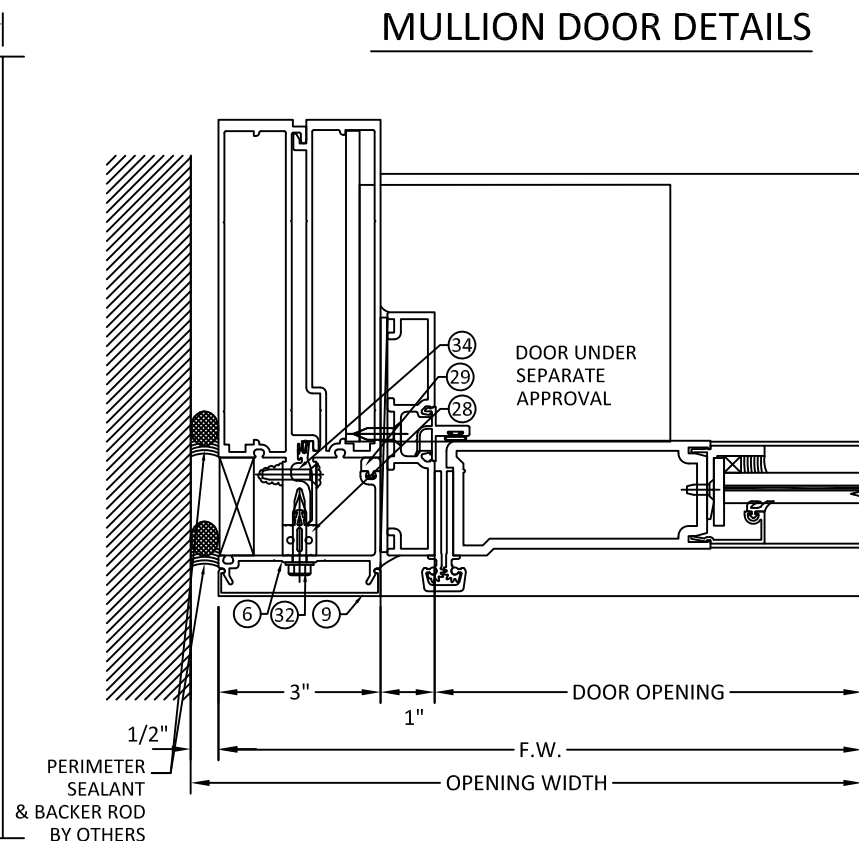
SECTION:
5.0

MULLION DOOR DETAILS

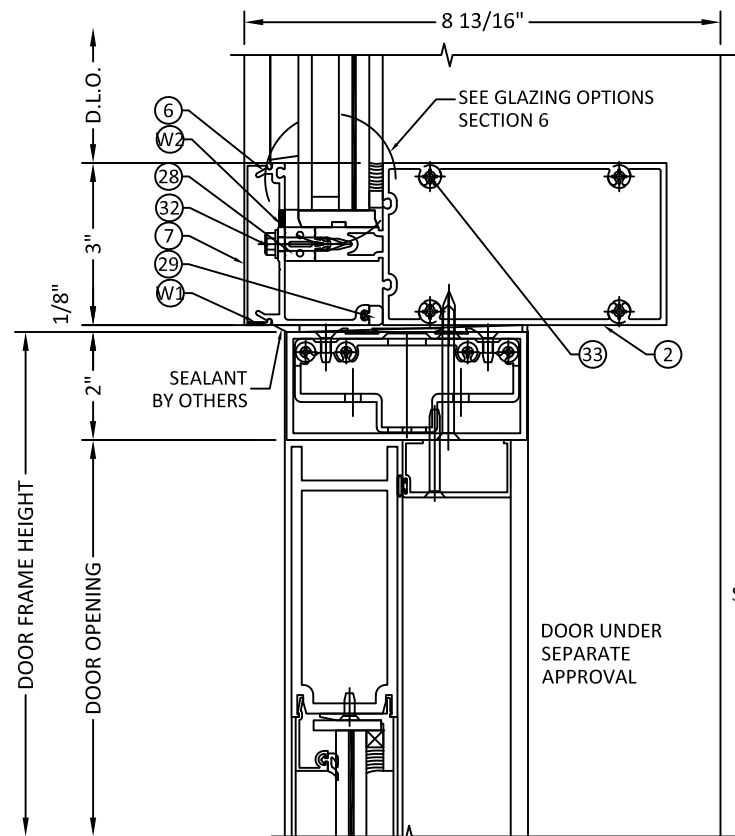
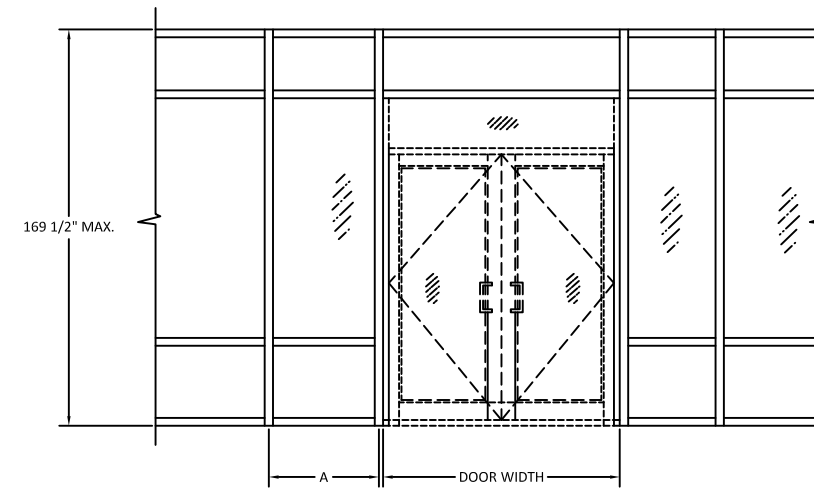
DOOR JAMB MULLION CAPACITY



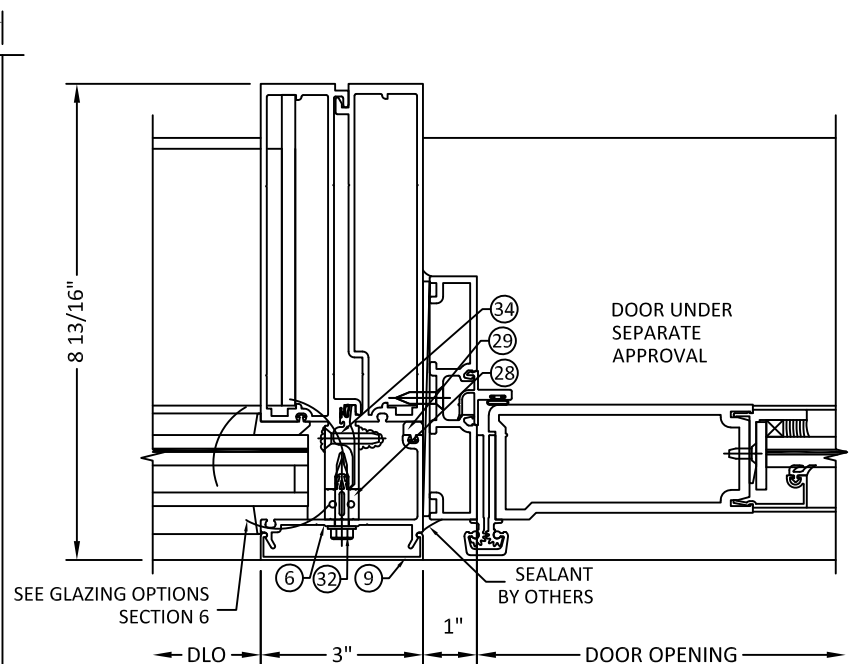
1
5.0 CONNECTION DETAIL
FRAME MULLION / DOOR HEAD
DRY GLAZED / INSULATING GLASS



2
5.0 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB



3
5.0 CONNECTION DETAIL
FRAME MULLION / DOOR HEAD
WET GLAZED / INSULATING GLASS



4
5.0 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
DRY GLAZED / INSULATING GLASS

INSULATING IMPACT GLASS OPTIONS

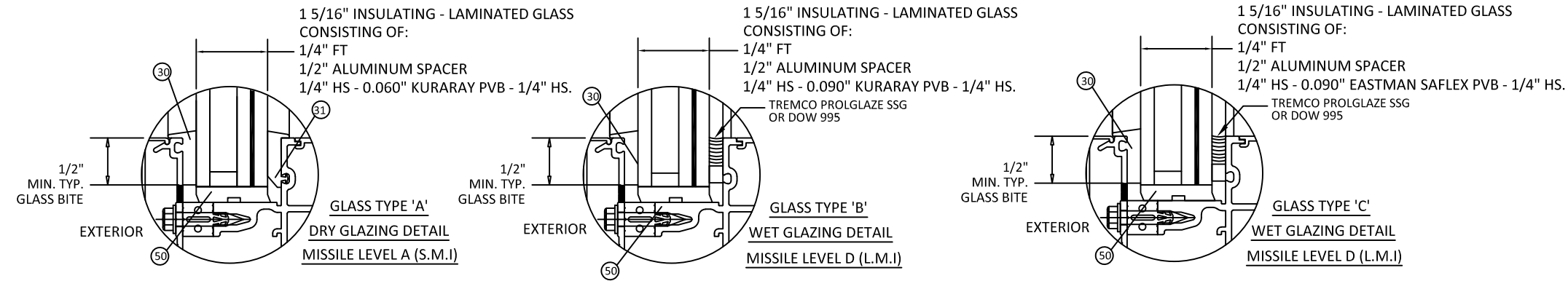
NOTES:

1. CHART VALUES PROVIDE MAXIMUM DESIGN PRESSURES ACCORDING TO ASTM E1300 FOR GIVEN GLASS DIMENSIONS 'a' AND 'b' (a > b), AND IBC, IRC FOR SIZES OTHER THAN TESTED
2. DO NOT EXCEED MULLION CAPACITY SELECTED OR ANCHOR CAPACITY IN DESIGN PRESSURE CHARTS

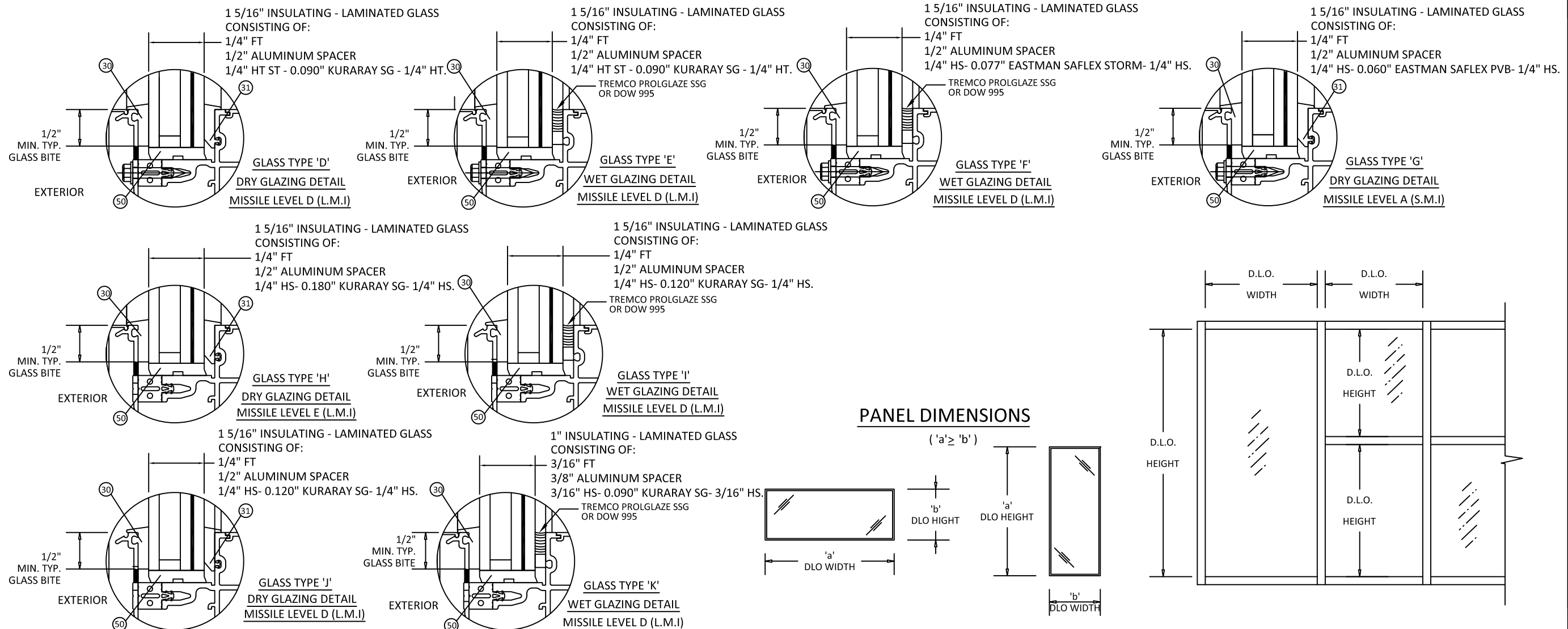
*** NOTE:**

1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND THE 2018 IBC, IRC FOR SIZES OTHER THAN TESTED.
2. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

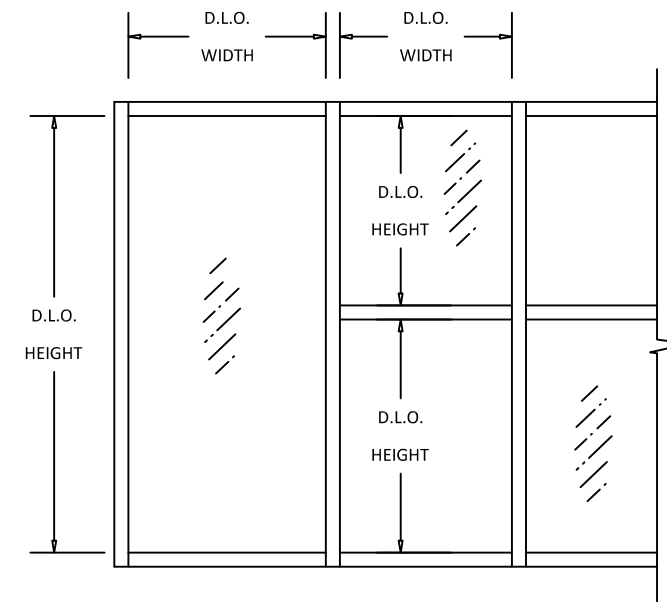
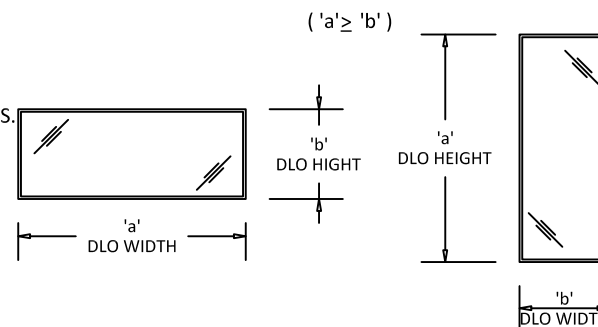
7-13/16" SYSTEM



8-13/16" SYSTEM



PANEL DIMENSIONS



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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HERMES F. NORERO, P.E.
TEXAS P.E. No. 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

DWG. #: KAW019

SECTION:

6.0

INSULATING IMPACT GLASS LOAD CAPACITY (LMI)

DESIGN PRESSURE TABLE (PSF) GLAZING CAPACITY BY TYPE			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B & C'
D.L.O. WIDTH 'a' (in.)	D.L.O. HEIGHT 'b' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
42	60	70.0	70.0
	66	70.0	70.0
	72	70.0	70.0
	78	70.0	70.0
	84	70.0	70.0
	90	70.0	70.0
	93	70.0	70.0
	96	70.0	70.0
	102	70.0	70.0
	108	70.0	-
	114	70.0	-
	120	70.0	-
126	70.0	-	
48	60	70.0	70.0
	66	70.0	70.0
	72	70.0	70.0
	78	70.0	70.0
	84	70.0	70.0
	90	70.0	70.0
	93	70.0	70.0
	96	70.0	-
	102	70.0	-
	108	70.0	-
	114	70.0	-
	54	70.0	-
54	60	70.0	62.2
	66	70.0	62.2
	72	70.0	62.2
	78	70.0	62.2
	84	70.0	-
	90	70.0	-
	93	70.0	-
	96	70.0	-
	102	70.0	-
	60	70.0	56.0
66	70.0	56.0	
72	70.0	56.0	
78	70.0	-	
84	70.0	-	
90	70.0	-	
93	70.0	-	
60	60	70.0	56.0
	66	63.6	50.9
	72	63.6	-
	78	63.6	-
66	60	70.0	56.0
	66	63.6	-
	72	63.6	-
	78	63.6	-
72	60	70.0	56.0
	66	63.6	-
	72	58.3	-

DESIGN PRESSURE TABLE (PSF) GLAZING CAPACITY BY TYPE					
NOMINAL DIMS.		GLASS TYPE 'D'	GLASS TYPE 'E' - 'I'	GLASS TYPE 'J'	
D.L.O. WIDTH 'a' (in.)	D.L.O. HEIGHT 'b' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	
48	60	90.0	130.0	110.0	
	66	90.0	130.0	110.0	
	72	90.0	130.0	110.0	
	78	90.0	130.0	110.0	
	81	90.0	130.0	110.0	
	84	90.0	130.0	110.0	
	90	90.0	130.0	110.0	
	96	90.0	130.0	110.0	
	102	90.0	130.0	110.0	
	108	90.0	130.0	110.0	
	114	-	130.0	110.0	
	54	60	90.0	130.0	110.0
		66	90.0	130.0	110.0
		72	90.0	130.0	110.0
78		90.0	130.0	110.0	
81		90.0	130.0	110.0	
84		90.0	130.0	110.0	
90		90.0	130.0	110.0	
96		90.0	130.0	110.0	
102		-	130.0	110.0	
60		60	90.0	130.0	110.0
	66	90.0	130.0	110.0	
	72	90.0	130.0	110.0	
	78	90.0	130.0	110.0	
	81	90.0	130.0	110.0	
	84	90.0	130.0	110.0	
	90	90.0	130.0	110.0	
	93	-	130.0	110.0	
	66	60	90.0	130.0	110.0
		66	81.8	118.2	100.0
72		81.8	118.2	100.0	
78		81.8	118.2	100.0	
81		81.8	118.2	100.0	
84		-	118.2	100.0	
72		60	90.0	130.0	110.0
		66	81.8	118.2	100.0
	72	75.0	108.3	91.7	
	75	75.0	108.3	91.7	
78	60	90.0	130.0	110.0	
	66	81.8	118.2	100.0	
84	60	90.0	130.0	110.0	
	66	-	118.2	100.0	
90	60	90.0	130.0	110.0	
93	60	-	130.0	110.0	

DESIGN PRESSURE TABLE (PSF) GLAZING CAPACITY BY TYPE		
NOMINAL DIMS.		GLASS TYPE 'K'
D.L.O. WIDTH 'a' (in.)	D.L.O. HEIGHT 'b' (in.)	EXT. (+) INT. (-)
24	54	120.0
	60	120.0
	66	120.0
	72	120.0
	78	120.0
	84	120.0
	90	120.0
	96	120.0
	99	120.0
	30 27/32	54
60		120.0
66		120.0
72		120.0
36	54	102.8
	60	102.8
	66	102.8
42	54	88.1
	58	88.1



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
GLAZING CAPACITY CHART

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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HERMES F. NORERO, P.E.
TEXAS P.E. No 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

DWG. #: KAW019

SECTION: 6.0A

[PAGE 18 OF 31]

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T & ANGLE ANCHOR TYPES

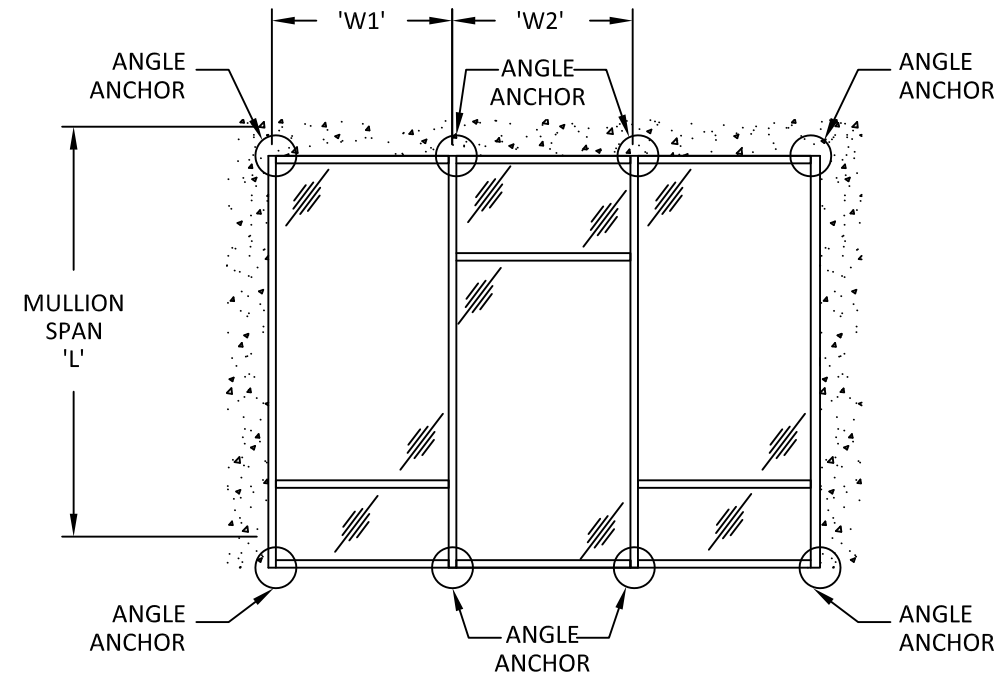
TYPE	DIAMETER	ANCHOR TYPE	SUBSTRATE	MINIMUM EDGE DISTANCE	MINIMUM EMBEDMENT
A	#14	WOOD SCREW	WOOD (MIN SG. = 0.42)	3/4"	1 3/4"
B	1/4"	LAG SCREW		3/4"	1 3/4"
C	1/4"	1/4-14 GR. 5 SELF TAPPING OR SELF DRILLING SCREW	MIN. 16 GAUGE STEEL, MIN. Fy = 50 KSI, MIN. 1/8" THICK A36 STEEL OR MIN 1/8" THICK 6063-T5 ALUMINUM	1/2"	MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE OR NUT
D	1/4"	GR. 5 CS OR 410 SS BOLT WITH WASHER & LOCK NUT			
E	1/4"	ELCO ULTRACON, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II	MIN. 3,000 PSI CONCRETE 'CRACKED OR UNCRACKED'	3"	1 3/4"
F	5/16"	5/16-12 GR. 5 SELF TAPPING OR SELF DRILLING SCREW	MIN. 1/8" THICK A36 STEEL	5/8"	MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE OR NUT
G	5/16"	GR. 5 CS OR 410 SS BOLT WITH WASHER & LOCK NUT			
H	1/2"	1/2-13 300 SS HCMS OR GR.5 CS THREAD FORMING SCREW	MIN. 1/4" THICK A36 STEEL	1"	MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE OR NUT
I	1/2"	GR. 5 CS OR 410 SS BOLT WITH WASHER & LOCK NUT	MIN. 1/8" THICK A36 STEEL		
J	1/2"	SIMPSON STRONG-TIE TITAN HD	MIN. 3,000 PSI CONCRETE 'CRACKED OR UNCRACKED'		

SECTION	MINIMUM SLAB THICKNESS	MINIMUM EDGE DISTANCE
7.3.1	7 1/2"	5 3/4"
	6"	6 3/4"
7.3.2	6"	5"
7.1.1	6"	5"
7.1.2	7 1/2"	5"
	6"	6"

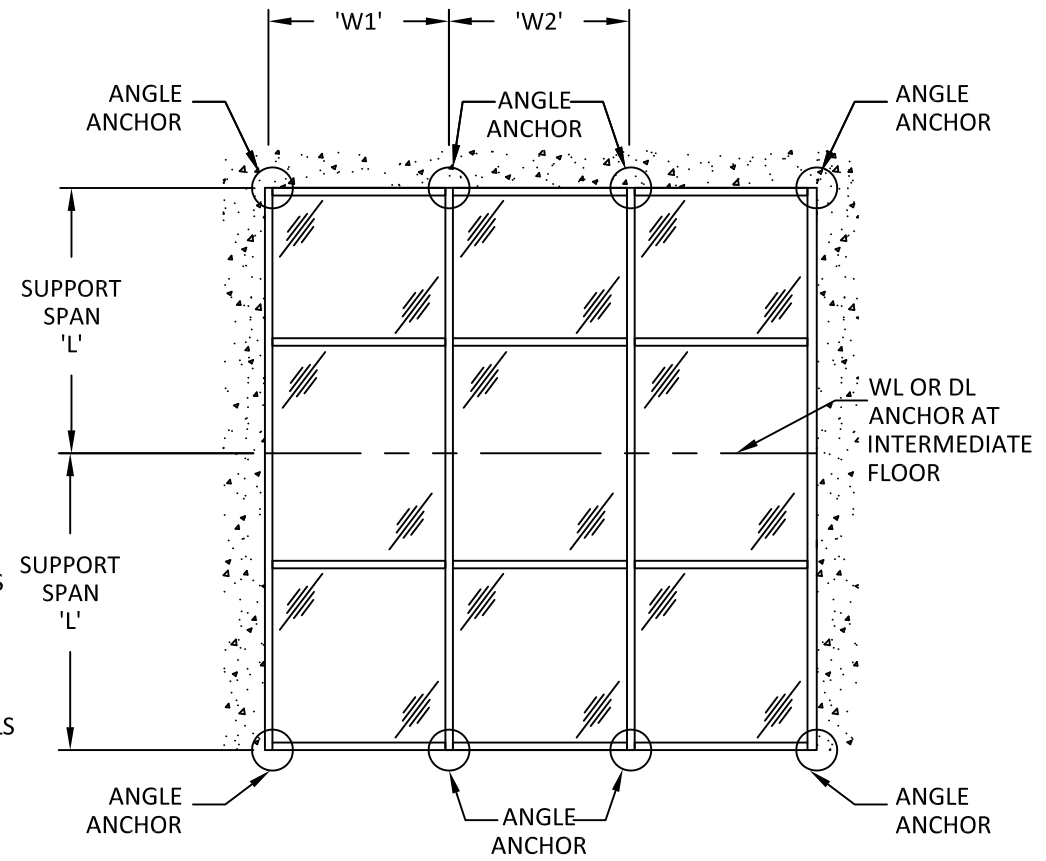
MULLION SPACING OR BAY WIDTH, 'W', FOR ANCHORS	$W = \frac{W1 + W2}{2}$
MULLION SPACING OR BAY WIDTH, 'W', FOR ANCHORS AT JAMBS	$W = \frac{W1}{2}$
MULLION SPACING OR BAY WIDTH, 'W', FOR ANCHORS AT VERTICAL MULL WITH DOORS	$*W = \frac{W1 + W2}{2}$

*REFER TO SECTION 4 FOR ILLUSTRATION OF DETERMINING MAX. TRIBUTARY WIDTH

- NOTE:
1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 2. REFER TO ANCHOR LAYOUTS AT RIGHT FOR LOCATIONS AND DETERMINING MAX. LENGTHS (L) AND TRIBUTARY WIDTHS (W).
 3. FOR SITE CONDITIONS NOT SHOWN IN THE DETAILS HEREIN OR EDGE DISTANCE REQUIREMENTS TO BE MODIFIED, ANCHORS MAY BE ENGINEERED ON A SITE SPECIFIC BASIS.
 4. REFER TO SECTION 7.1, 7.2, & 7.3 DETAILS FOR ANCHOR CONFIGURATIONS.
 5. REFER TO SECTION 7.4, 7.5, 7.6 & 7.7 DETAILS FOR T & ANGLE ANCHOR TYPE CAPACITIES.



SINGLE SPAN ANCHOR LAYOUT



MULTI SPAN ANCHOR LAYOUT - TYP.



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
ANCHOR TYPES

PREPARED BY: BUILDING DROPS, INC.
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TEXAS P.E. No. 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE:	02.11.21
DWG. BY:	E.R.
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	KAW019

SECTION:
7.0

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TITLE: 1630 SS IR CURTAIN WALL
(IMPACT)
ANCHOR DETAILS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
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398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

DWG. BY: E.R. CHK. BY: HFN

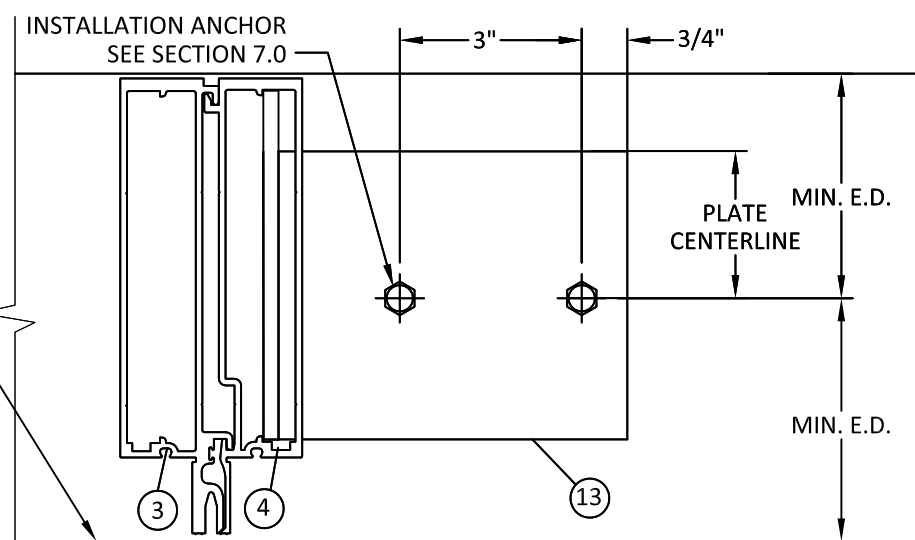
SCALE: NTS

DWG. #: KAW019

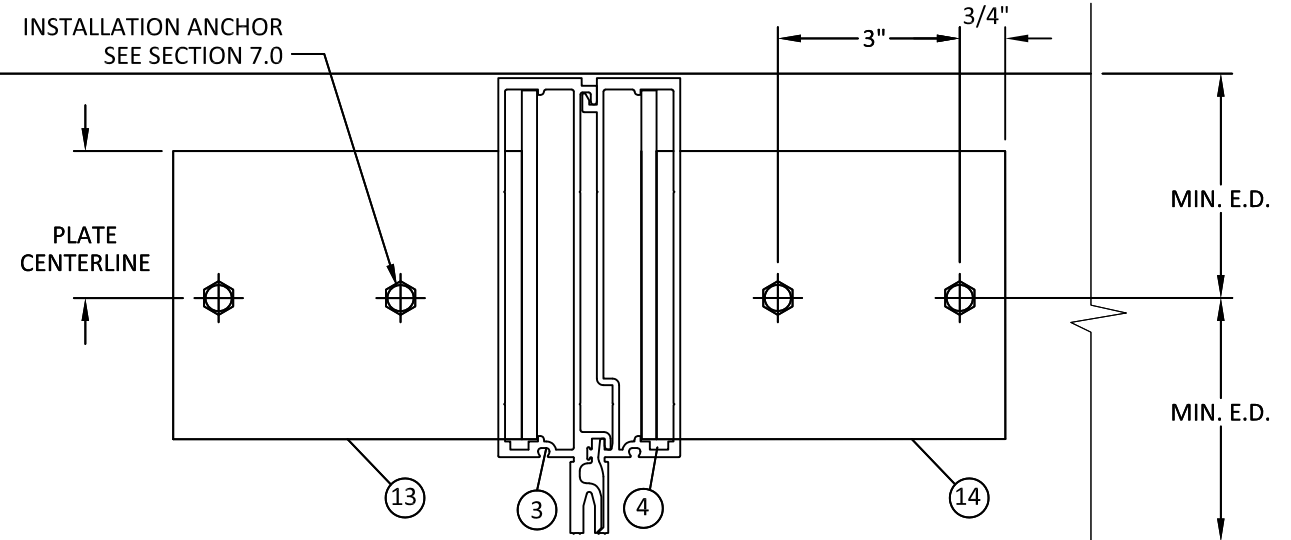
SECTION:

7.1

NOTE:
DETAILS SHOWN APPLICABLE TO
ANCHOR TYPES F, G, H, I, & J



1
7.1 ANCHOR DETAIL
ANGLE-ANCHOR
INTO WOOD, CONCRETE OR METAL STUD

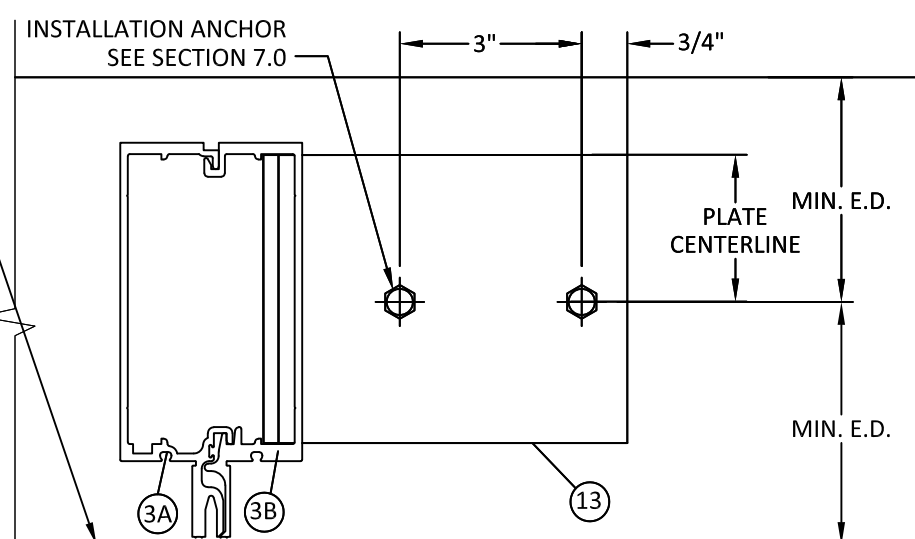


2
7.1 ANCHOR DETAIL
ANGLE-ANCHOR
INTO WOOD, CONCRETE OR METAL STUD

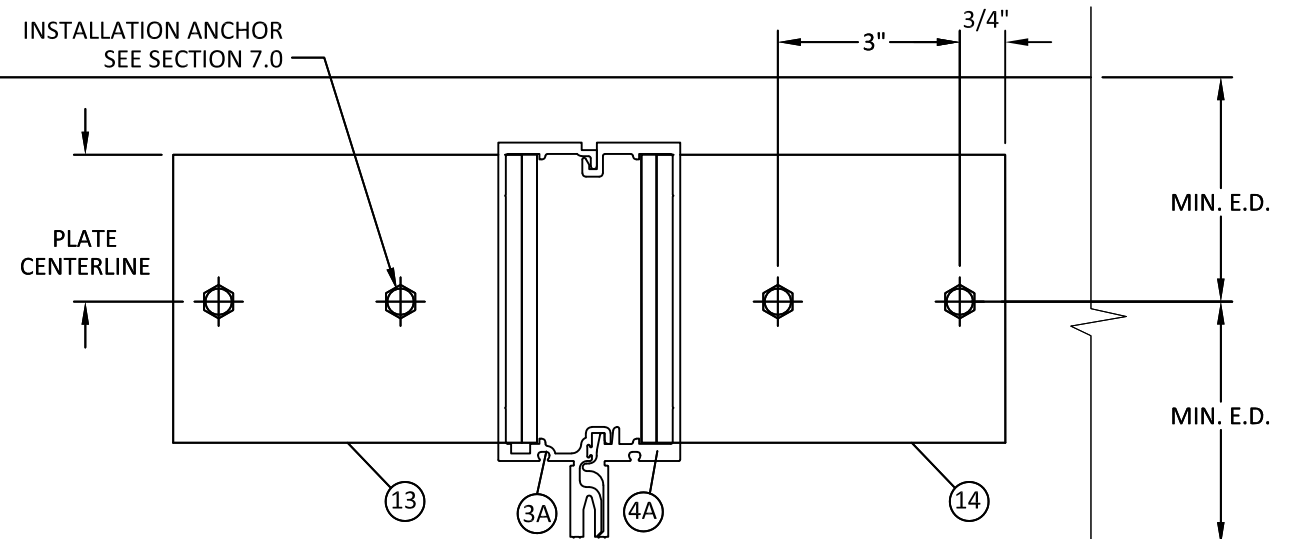
EDGE OF OPENING SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

EDGE OF OPENING SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

NOTE:
1. ANCHORS SHOWN HEREIN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL ANCHOR IDENTIFICATION SHALL BE PER ANCHOR MANUFACTURERS INSTALLATION INSTRUCTIONS
2. ANCHOR BOLT EXTENSIONS MAY BE CLIPPED TO T.O. HEX NUT AND SHEAR BLOCKS MAY BE NOTCHED TO ALLOW FOR ANCHOR CLEARANCE.
3. REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE, SECTION 7.0.



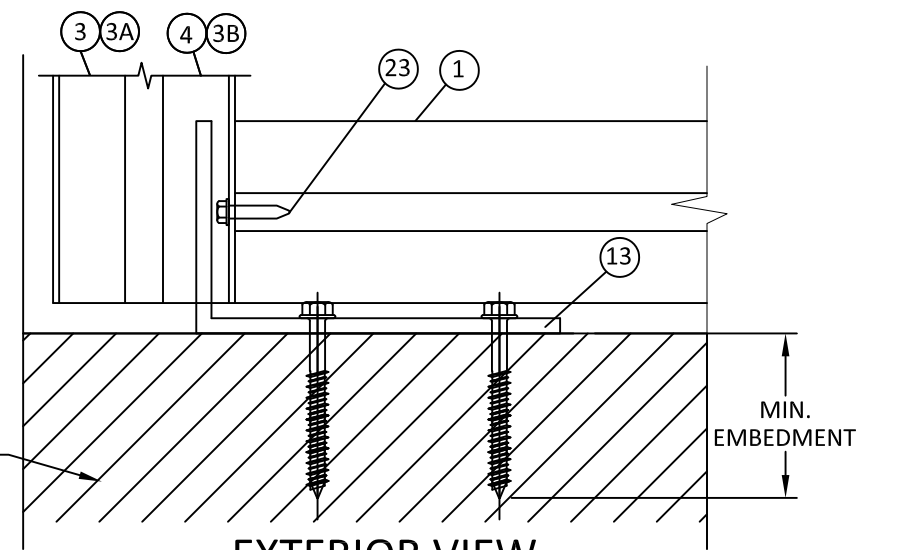
3
7.1 ANCHOR DETAIL
ANGLE-ANCHOR
INTO WOOD, CONCRETE OR METAL STUD



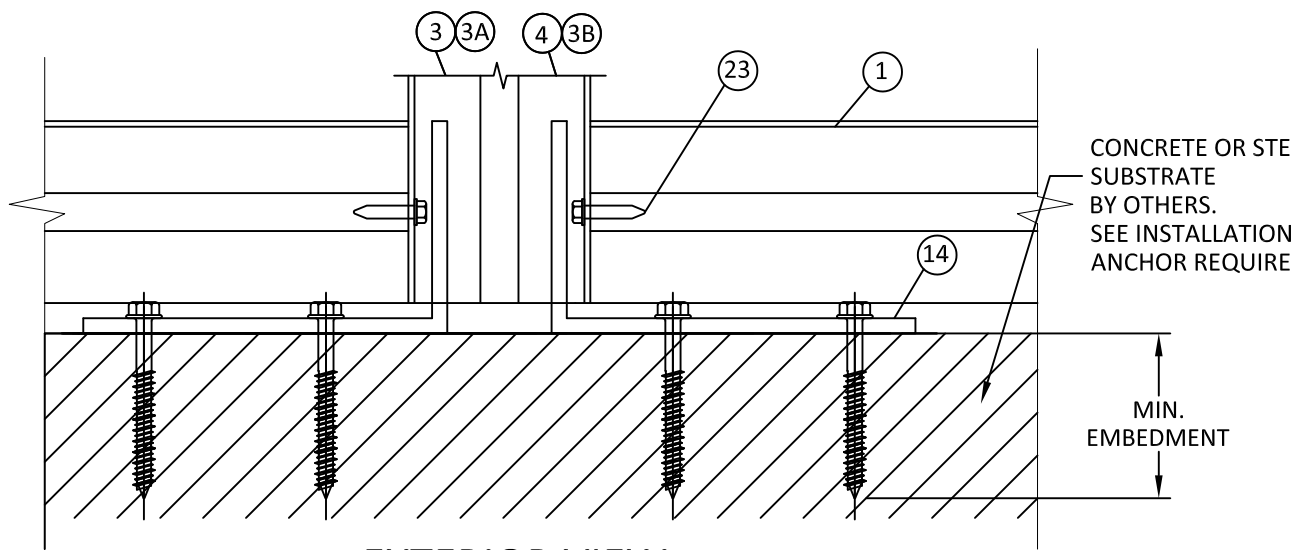
4
7.1 ANCHOR DETAIL
ANGLE-ANCHOR
INTO WOOD, CONCRETE OR METAL STUD

CONCRETE OR STEEL SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

CONCRETE OR STEEL SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR REQUIREMENTS



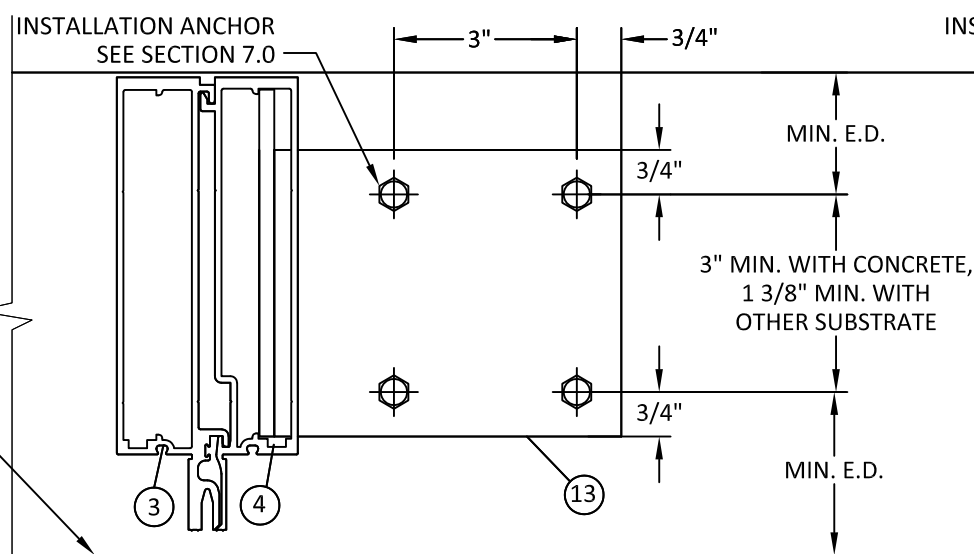
EXTERIOR VIEW
ANGLE-ANCHOR (TYPICAL)



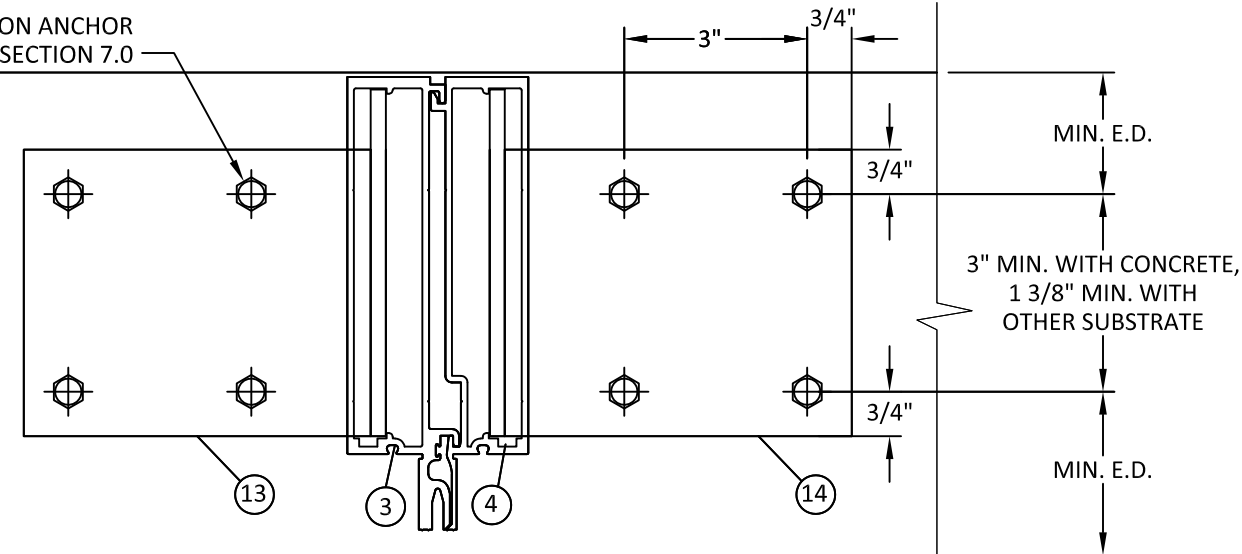
EXTERIOR VIEW
ANGLE-ANCHOR (TYPICAL)

12/9/2021 2:54 PM s:\projects\kawneer company\tdr-21-0118-rdi-submittal\dwgs\116548-kaw1630-116548.dwg: 7 ft x anchor.dtlis.dwg

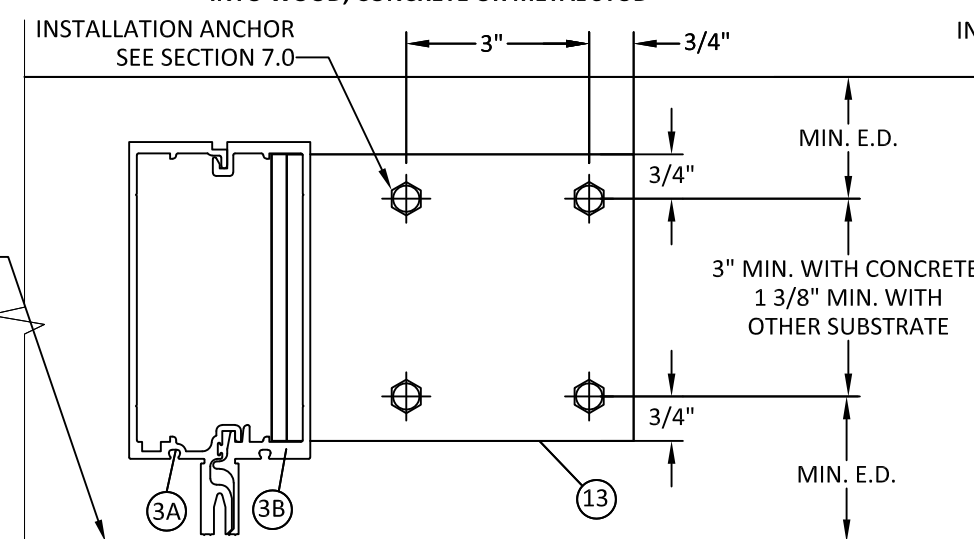
NOTE:
DETAILS SHOWN APPLICABLE TO
ANCHOR TYPES A, B, C, D, & E



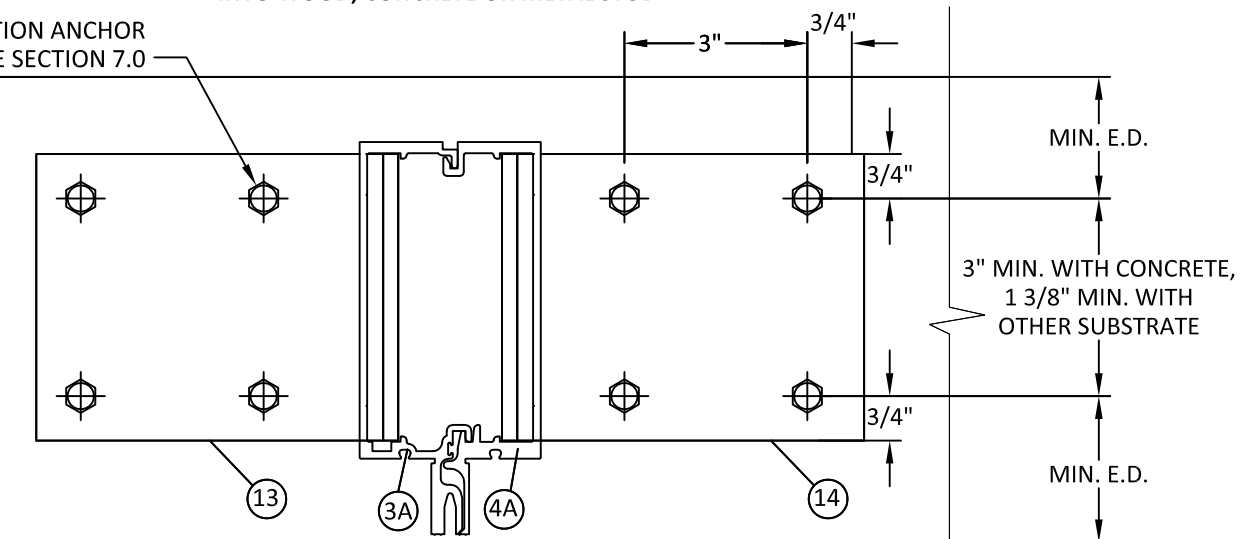
1
7.2 ANCHOR DETAIL
ANGLE ANCHOR
INTO WOOD, CONCRETE OR METAL STUD



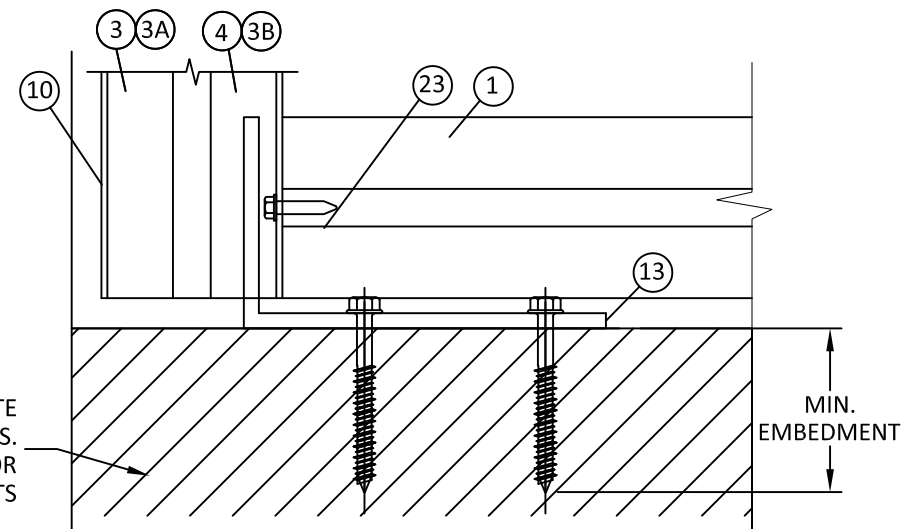
2
7.2 ANCHOR DETAIL
ANGLE ANCHOR
INTO WOOD, CONCRETE OR METAL STUD



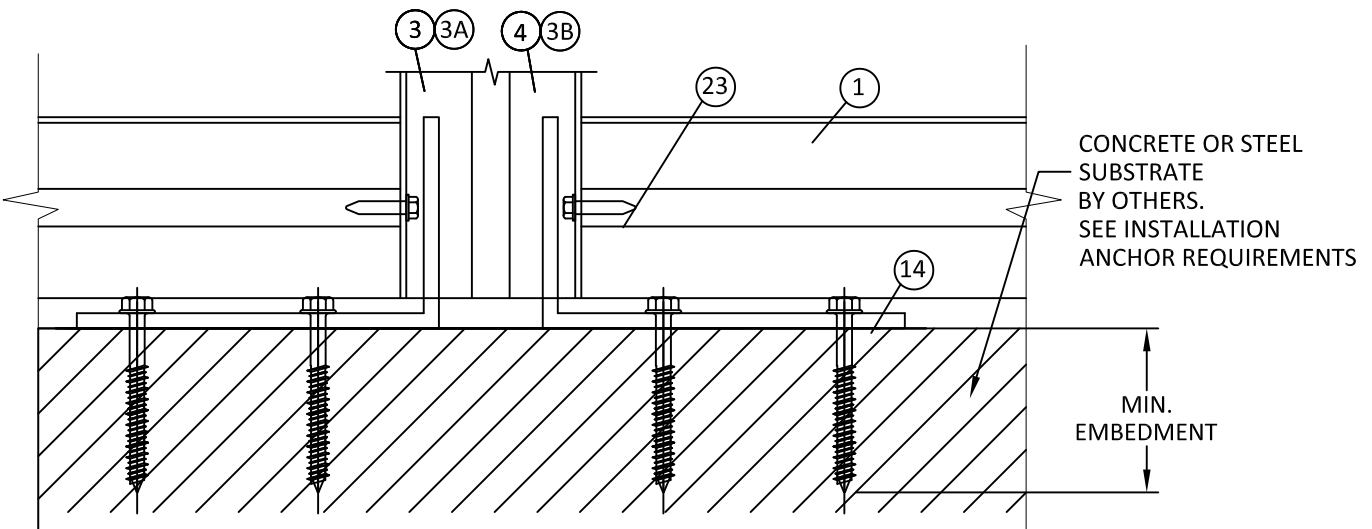
3
7.2 ANCHOR DETAIL
ANGLE-ANCHOR
INTO WOOD, CONCRETE OR METAL STUD



4
7.2 ANCHOR DETAIL
ANGLE-ANCHOR
INTO WOOD, CONCRETE OR METAL STUD



EXTERIOR VIEW
ANGLE-ANCHOR (TYPICAL)



EXTERIOR VIEW
ANGLE-ANCHOR (TYPICAL)

EDGE OF OPENING SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

EDGE OF OPENING SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

CONCRETE OR STEEL SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

CONCRETE OR STEEL
SUBSTRATE
BY OTHERS.
SEE INSTALLATION
ANCHOR REQUIREMENTS



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



HERMES F. NORERO, P.E.
TEXAS P.E. No. 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

DWG. #: KAW019

SECTION:

7.2

12/9/2021 2:54 PM s:\projects\kawneer company\tdr-21-0118 -tdl-submittal\dwgs\116548\kaw1630 - fl16548 dwgs-7 ft s anchor.dtlis.dwg

TITLE: 1630 SS IR CURTAIN WALL
(IMPACT)
ANCHOR DETAILS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
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REMARKS	BY	DATE

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HERMES F. NORERO, P.E.
TEXAS P.E. No. 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

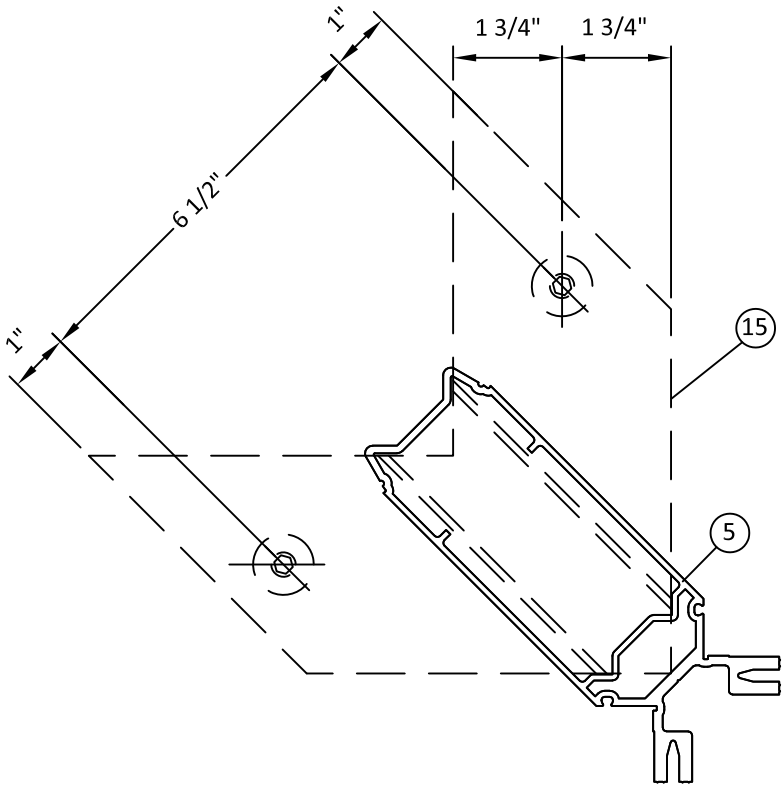
DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

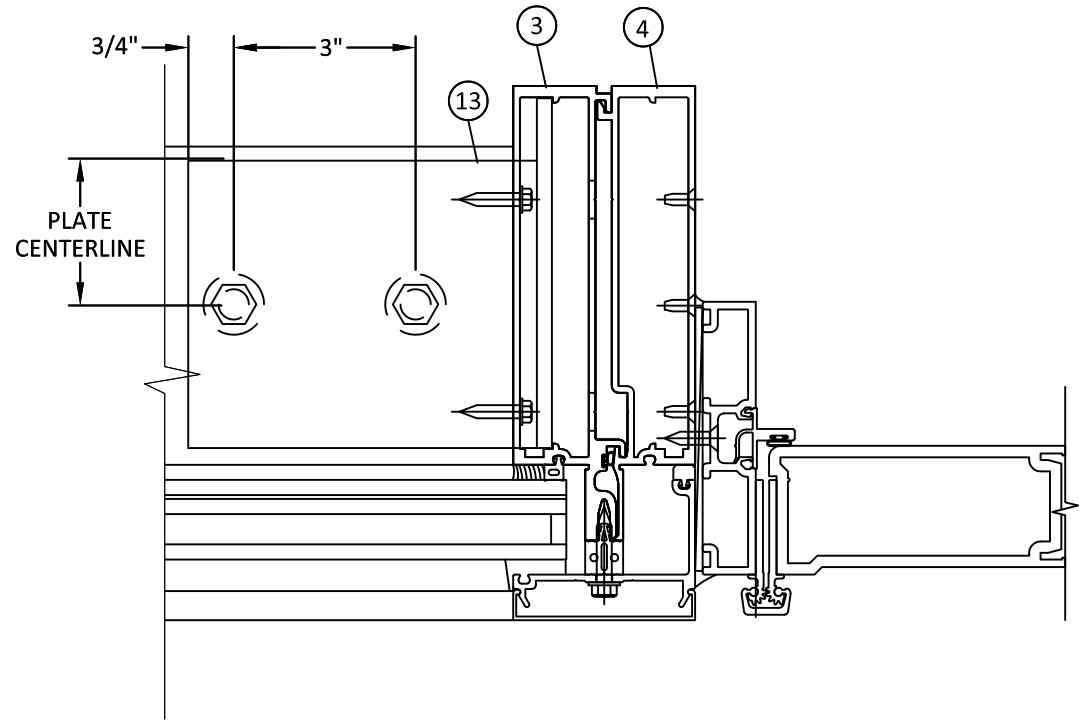
DWG. #: KAW019

SECTION:

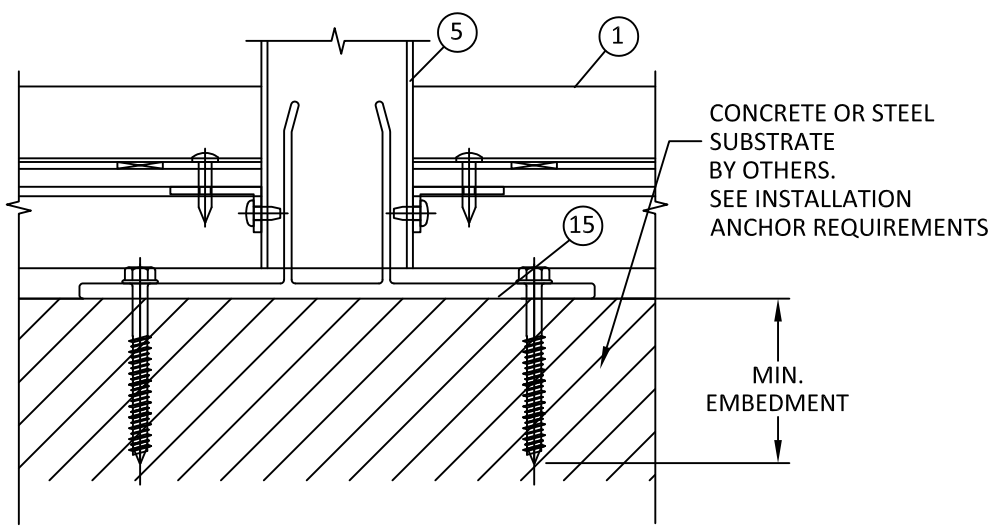
7.3



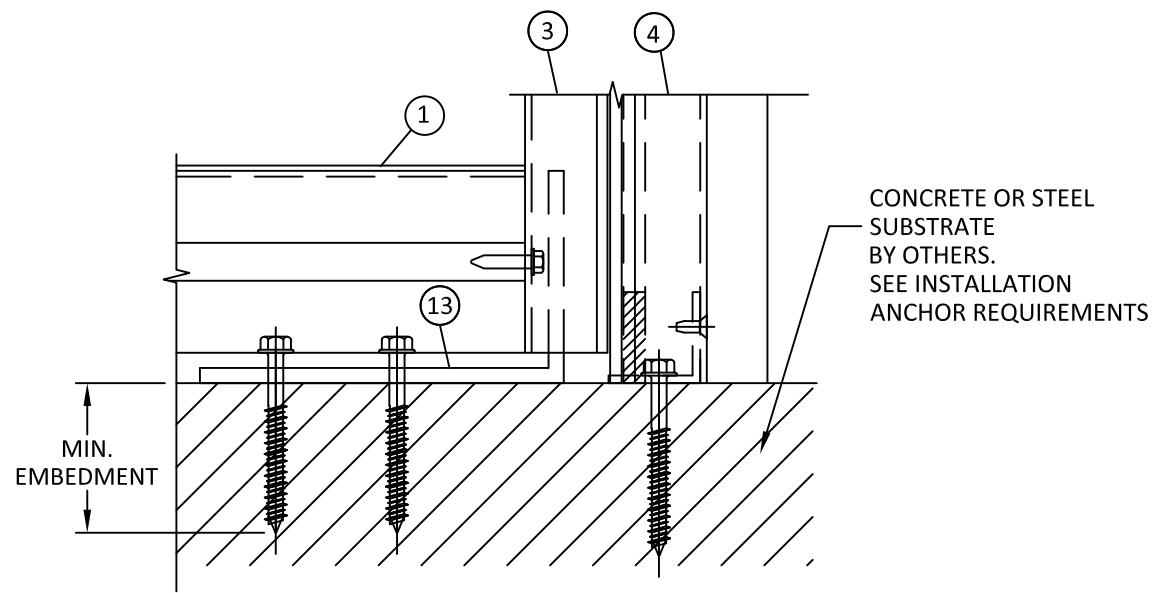
1
7.3 ANCHOR DETAIL
STANDARD CORNER - MULLION ANCHOR



2
7.3 ANCHOR DETAIL
MULLION ANCHOR AT DOOR



EXTERIOR VIEW
T-ANCHOR CLIP (90° CORNER)



EXTERIOR VIEW
ANGLE ANCHOR CLIP (90° CORNER)

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T & F ANGLE ANCHOR CAPACITIES

MAX. TRIBUTARY WIDTH 'W' (in.)	MAX. SPAN HEIGHT 'H' (in.)	ANCHOR TYPE 'A2'	ANCHOR TYPE 'B2'	ANCHOR TYPE 'C2'	ANCHOR TYPE 'D2'	ANCHOR TYPE 'E2'	ANCHOR TYPE 'F2'	ANCHOR TYPE 'G2'	ANCHOR TYPE 'H2'	ANCHOR TYPE 'I2'	ANCHOR TYPE 'J2'
48	96	64.8	35.6	110.3	110.3	45.0	130.0	130.0	130.0	130.0	130.0
54		57.6	31.6	98.0	98.0	40.0	130.0	130.0	130.0	130.0	130.0
60		51.8	28.4	88.2	88.2	36.0	130.0	130.0	130.0	130.0	130.0
66		47.1	25.9	80.2	80.2	32.7	130.0	130.0	130.0	130.0	130.0
72		43.2	23.7	73.5	73.5	30.0	130.0	130.0	130.0	130.0	130.0
84		37.0	20.3	63.0	63.0	25.7	130.0	130.0	130.0	130.0	130.0
96		32.4	17.8	55.1	55.1	22.5	130.0	130.0	130.0	130.0	130.0
48		99	62.8	34.5	106.9	106.9	43.6	130.0	130.0	130.0	130.0
54	55.8		30.6	95.0	95.0	38.8	130.0	130.0	130.0	130.0	130.0
60	50.3		27.6	85.5	85.5	34.9	130.0	130.0	130.0	130.0	130.0
66	45.7		25.1	77.8	77.8	31.7	130.0	130.0	130.0	130.0	130.0
72	41.9		23.0	71.3	71.3	29.1	130.0	130.0	130.0	130.0	130.0
84	35.9		19.7	61.1	61.1	24.9	130.0	130.0	130.0	130.0	130.0
96	31.4		17.2	53.5	53.5	21.8	130.0	130.0	130.0	130.0	130.0
48	102		61.0	33.5	103.8	103.8	42.4	130.0	130.0	130.0	130.0
54		54.2	29.7	92.2	92.2	37.6	130.0	130.0	130.0	130.0	130.0
60		48.8	26.8	83.0	83.0	33.9	130.0	130.0	130.0	130.0	130.0
66		44.3	24.3	75.5	75.5	30.8	130.0	130.0	130.0	130.0	130.0
72		40.6	22.3	69.2	69.2	28.2	130.0	130.0	130.0	130.0	130.0
84		34.8	19.1	59.3	59.3	24.2	130.0	130.0	130.0	130.0	130.0
96		30.5	16.7	51.9	51.9	21.2	130.0	130.0	130.0	130.0	130.0
48		108	57.6	31.6	98.0	98.0	40.0	130.0	130.0	130.0	130.0
54	51.2		28.1	87.1	87.1	35.6	130.0	130.0	130.0	130.0	130.0
60	46.1		25.3	78.4	78.4	32.0	130.0	130.0	130.0	130.0	130.0
66	41.9		23.0	71.3	71.3	29.1	130.0	130.0	130.0	130.0	130.0
72	38.4		21.1	65.3	65.3	26.7	130.0	130.0	130.0	130.0	130.0
84	32.9		18.1	56.0	56.0	22.9	130.0	130.0	130.0	130.0	130.0
96	28.8		15.8	49.0	49.0	20.0	130.0	130.0	130.0	130.0	130.0
48	114		54.6	29.9	92.8	92.8	37.9	130.0	130.0	130.0	130.0
54		48.5	26.6	82.5	82.5	33.7	130.0	130.0	130.0	130.0	130.0
60		43.6	24.0	74.3	74.3	30.3	130.0	130.0	130.0	130.0	130.0
66		39.7	21.8	67.5	67.5	27.6	130.0	130.0	130.0	130.0	130.0
72		36.4	20.0	61.9	61.9	25.3	130.0	130.0	130.0	130.0	130.0
84		31.2	17.1	53.1	53.1	21.7	130.0	130.0	130.0	130.0	130.0
96		27.3	15.0	46.4	46.4	18.9	127.6	127.6	130.0	130.0	130.0
48		120	51.8	28.4	88.2	88.2	36.0	130.0	130.0	130.0	130.0
54	46.1		25.3	78.4	78.4	32.0	130.0	130.0	130.0	130.0	130.0
60	41.5		22.8	70.6	70.6	28.8	130.0	130.0	130.0	130.0	130.0
66	37.7		20.7	64.1	64.1	26.2	130.0	130.0	130.0	130.0	130.0
72	34.5		19.0	58.8	58.8	24.0	130.0	130.0	130.0	130.0	130.0
84	29.6		16.3	50.4	50.4	20.6	130.0	130.0	130.0	130.0	130.0
96	25.9		14.2	44.1	44.1	18.0	121.2	121.2	130.0	130.0	130.0
48	126		49.4	27.1	84.0	84.0	34.3	130.0	130.0	130.0	130.0
54		43.9	24.1	74.7	74.7	30.5	130.0	130.0	130.0	130.0	130.0
60		39.5	21.7	67.2	67.2	27.4	130.0	130.0	130.0	130.0	130.0
66		35.9	19.7	61.1	61.1	24.9	130.0	130.0	130.0	130.0	130.0
72		32.9	18.1	56.0	56.0	22.9	130.0	130.0	130.0	130.0	130.0
84		28.2	15.5	48.0	48.0	19.6	130.0	130.0	130.0	130.0	130.0
96		24.7	13.5	42.0	42.0	17.1	115.4	115.4	130.0	130.0	130.0



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

TITLE: 1630 SS IR CURTAIN WALL
(IMPACT)
ANCHOR CAPACITIES

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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HERMES F. NORERO, P.E.
TEXAS P.E. No. 118471
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21
DWG. BY: E.R. CHK. BY: HFN
SCALE: NTS
DWG. #: KAW019
SECTION:

7.4

T & F ANGLE ANCHOR CAPACITIES

MAX. TRIBUTARY WIDTH 'W' (in.)	MAX. SPAN HEIGHT 'H' (in.)	ANCHOR TYPE 'A2'	ANCHOR TYPE 'B2'	ANCHOR TYPE 'C2'	ANCHOR TYPE 'D2'	ANCHOR TYPE 'E2'	ANCHOR TYPE 'F2'	ANCHOR TYPE 'G2'	ANCHOR TYPE 'H2'	ANCHOR TYPE 'I2'	ANCHOR TYPE 'J2'
48	132	47.1	25.9	80.2	80.2	32.7	130.0	130.0	130.0	130.0	130.0
54		41.9	23.0	71.3	71.3	29.1	130.0	130.0	130.0	130.0	130.0
60		37.7	20.7	64.1	64.1	26.2	130.0	130.0	130.0	130.0	130.0
66		34.3	18.8	58.3	58.3	23.8	130.0	130.0	130.0	130.0	130.0
72		31.4	17.2	53.5	53.5	21.8	130.0	130.0	130.0	130.0	130.0
84		26.9	14.8	45.8	45.8	18.7	125.9	125.9	130.0	130.0	130.0
96		23.6	12.9	40.1	40.1	16.4	110.2	110.2	130.0	130.0	125.9
48	138	45.1	24.7	76.7	76.7	31.3	130.0	130.0	130.0	130.0	130.0
54		40.1	22.0	68.2	68.2	27.8	130.0	130.0	130.0	130.0	130.0
60		36.1	19.8	61.4	61.4	25.0	130.0	130.0	130.0	130.0	130.0
66		32.8	18.0	55.8	55.8	22.8	130.0	130.0	130.0	130.0	130.0
72		30.0	16.5	51.1	51.1	20.9	130.0	130.0	130.0	130.0	130.0
84		25.8	14.1	43.8	43.8	17.9	120.4	120.4	130.0	130.0	130.0
96		22.5	12.4	38.3	38.3	15.7	105.4	105.4	130.0	130.0	120.4
48	144	43.2	23.7	73.5	73.5	30.0	130.0	130.0	130.0	130.0	130.0
54		38.4	21.1	65.3	65.3	26.7	130.0	130.0	130.0	130.0	130.0
60		34.5	19.0	58.8	58.8	24.0	130.0	130.0	130.0	130.0	130.0
66		31.4	17.2	53.5	53.5	21.8	130.0	130.0	130.0	130.0	130.0
72		28.8	15.8	49.0	49.0	20.0	130.0	130.0	130.0	130.0	130.0
84		24.7	13.5	42.0	42.0	17.1	115.4	115.4	130.0	130.0	130.0
96		21.6	11.9	36.8	36.8	15.0	101.0	101.0	130.0	130.0	115.4
48	150	41.5	22.8	70.6	70.6	28.8	130.0	130.0	130.0	130.0	130.0
54		36.9	20.2	62.7	62.7	25.6	130.0	130.0	130.0	130.0	130.0
60		33.2	18.2	56.4	56.4	23.0	130.0	130.0	130.0	130.0	130.0
66		30.2	16.5	51.3	51.3	20.9	130.0	130.0	130.0	130.0	130.0
72		27.6	15.2	47.0	47.0	19.2	129.3	129.3	130.0	130.0	130.0
84		23.7	13.0	40.3	40.3	16.5	110.8	110.8	130.0	130.0	126.6
96		20.7	11.4	35.3	35.3	14.4	97.0	97.0	130.0	130.0	110.8
48	156	39.9	21.9	67.8	67.8	27.7	130.0	130.0	130.0	130.0	130.0
54		35.4	19.4	60.3	60.3	24.6	130.0	130.0	130.0	130.0	130.0
60		31.9	17.5	54.3	54.3	22.2	130.0	130.0	130.0	130.0	130.0
66		29.0	15.9	49.3	49.3	20.1	130.0	130.0	130.0	130.0	130.0
72		26.6	14.6	45.2	45.2	18.5	124.3	124.3	130.0	130.0	130.0
84		22.8	12.5	38.8	38.8	15.8	106.5	106.5	130.0	130.0	121.8
96		19.9	10.9	33.9	33.9	13.8	93.2	93.2	130.0	130.0	106.5
48	162	38.4	21.1	65.3	65.3	26.7	130.0	130.0	130.0	130.0	130.0
54		34.1	18.7	58.1	58.1	23.7	130.0	130.0	130.0	130.0	130.0
60		30.7	16.9	52.3	52.3	21.3	130.0	130.0	130.0	130.0	130.0
66		27.9	15.3	47.5	47.5	19.4	130.0	130.0	130.0	130.0	130.0
72		25.6	14.0	43.6	43.6	17.8	119.7	119.7	130.0	130.0	130.0
84		21.9	12.0	37.3	37.3	15.2	102.6	102.6	130.0	130.0	117.2
96		19.2	10.5	32.7	32.7	13.3	89.8	89.8	130.0	130.0	102.6
48	168	37.0	20.3	63.0	63.0	25.7	130.0	130.0	130.0	130.0	130.0
54		32.9	18.1	56.0	56.0	22.9	130.0	130.0	130.0	130.0	130.0
60		29.6	16.3	50.4	50.4	20.6	130.0	130.0	130.0	130.0	130.0
66		26.9	14.8	45.8	45.8	18.7	125.9	125.9	130.0	130.0	130.0
72		24.7	13.5	42.0	42.0	17.1	115.4	115.4	130.0	130.0	130.0
84		21.2	11.6	36.0	36.0	14.7	98.9	98.9	130.0	130.0	113.1
96		18.5	10.2	31.5	31.5	12.9	86.6	86.6	130.0	130.0	98.9
48	174	35.7	19.6	60.8	60.8	24.8	130.0	130.0	130.0	130.0	130.0
54		31.8	17.4	54.1	54.1	22.1	130.0	130.0	130.0	130.0	130.0
60		28.6	15.7	48.7	48.7	19.9	130.0	130.0	130.0	130.0	130.0
66		26.0	14.3	44.2	44.2	18.1	121.6	121.6	130.0	130.0	130.0
72		23.8	13.1	40.6	40.6	16.6	111.4	111.4	130.0	130.0	127.4
84		20.4	11.2	34.8	34.8	14.2	95.5	95.5	130.0	130.0	109.2
96		17.9	9.8	30.4	30.4	12.4	83.6	83.6	130.0	130.0	95.5



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TEXAS P.E. No. 118471
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

DWG. #: KAW019

SECTION: 7.5

12/9/2021 2:54 PM

s:\projects\kawneer company\tdr-21-0118 -tdl-submittal\dwgs\116548\kaw1630 - fl16548 dwgs-7 ft s anchor dtis.dwg

T & F ANGLE ANCHOR CAPACITIES

MAX. TRIBUTARY WIDTH 'W' (in.)	MAX. SPAN HEIGHT 'H' (in.)	ANCHOR TYPE 'A2'	ANCHOR TYPE 'B2'	ANCHOR TYPE 'C2'	ANCHOR TYPE 'D2'	ANCHOR TYPE 'E2'	ANCHOR TYPE 'F2'	ANCHOR TYPE 'G2'	ANCHOR TYPE 'H2'	ANCHOR TYPE 'I2'	ANCHOR TYPE 'J2'
48	180	34.5	19.0	58.8	58.8	24.0	130.0	130.0	130.0	130.0	130.0
54		30.7	16.9	52.3	52.3	21.3	130.0	130.0	130.0	130.0	130.0
60		27.6	15.2	47.0	47.0	19.2	129.3	129.3	130.0	130.0	130.0
66		25.1	13.8	42.8	42.8	17.5	117.5	117.5	130.0	130.0	130.0
72		23.0	12.6	39.2	39.2	16.0	107.7	107.7	130.0	130.0	123.1
84		19.7	10.8	33.6	33.6	13.7	92.3	92.3	130.0	130.0	105.5
96		17.3	9.5	29.4	29.4	12.0	80.8	80.8	130.0	130.0	92.3
48	186	33.4	18.4	56.9	56.9	23.2	130.0	130.0	130.0	130.0	130.0
54		29.7	16.3	50.6	50.6	20.6	130.0	130.0	130.0	130.0	130.0
60		26.7	14.7	45.5	45.5	18.6	125.1	125.1	130.0	130.0	130.0
66		24.3	13.3	41.4	41.4	16.9	113.7	113.7	130.0	130.0	130.0
72		22.3	12.2	37.9	37.9	15.5	104.3	104.3	130.0	130.0	119.1
84		19.1	10.5	32.5	32.5	13.3	89.4	89.4	130.0	130.0	102.1
96		16.7	9.2	28.5	28.5	11.6	78.2	78.2	130.0	130.0	89.4
48	192	32.4	17.8	55.1	55.1	22.5	130.0	130.0	130.0	130.0	130.0
54		28.8	15.8	49.0	49.0	20.0	130.0	130.0	130.0	130.0	130.0
60		25.9	14.2	44.1	44.1	18.0	121.2	121.2	130.0	130.0	130.0
66		23.6	12.9	40.1	40.1	16.4	110.2	110.2	130.0	130.0	125.9
72		21.6	11.9	36.8	36.8	15.0	101.0	101.0	130.0	130.0	115.4
84		18.5	10.2	31.5	31.5	12.9	86.6	86.6	130.0	130.0	98.9
96		16.2	8.9	27.6	27.6	11.3	75.8	75.8	130.0	130.0	86.6
48	198	31.4	17.2	53.5	53.5	21.8	130.0	130.0	130.0	130.0	130.0
54		27.9	15.3	47.5	47.5	19.4	130.0	130.0	130.0	130.0	130.0
60		25.1	13.8	42.8	42.8	17.5	117.5	117.5	130.0	130.0	130.0
66		22.8	12.5	38.9	38.9	15.9	106.8	106.8	130.0	130.0	122.1
72		20.9	11.5	35.6	35.6	14.5	97.9	97.9	130.0	130.0	111.9
84		17.9	9.9	30.5	30.5	12.5	83.9	83.9	130.0	130.0	95.9
96		15.7	8.6	26.7	26.7	10.9	73.5	73.5	130.0	130.0	83.9
48	204	30.5	16.7	51.9	51.9	21.2	130.0	130.0	130.0	130.0	130.0
54		27.1	14.9	46.1	46.1	18.8	126.7	126.7	130.0	130.0	130.0
60		24.4	13.4	41.5	41.5	16.9	114.1	114.1	130.0	130.0	130.0
66		22.2	12.2	37.7	37.7	15.4	103.7	103.7	130.0	130.0	118.5
72		20.3	11.2	34.6	34.6	14.1	95.1	95.1	130.0	130.0	108.6
84		17.4	9.6	29.6	29.6	12.1	81.5	81.5	130.0	130.0	93.1
96		15.2	8.4	25.9	25.9	10.6	71.3	71.3	130.0	130.0	81.5
48	210	29.6	16.3	50.4	50.4	20.6	130.0	130.0	130.0	130.0	130.0
54		26.3	14.4	44.8	44.8	18.3	123.1	123.1	130.0	130.0	130.0
60		23.7	13.0	40.3	40.3	16.5	110.8	110.8	130.0	130.0	126.6
66		21.5	11.8	36.7	36.7	15.0	100.7	100.7	130.0	130.0	115.1
72		19.7	10.8	33.6	33.6	13.7	92.3	92.3	130.0	130.0	105.5
84		16.9	9.3	28.8	28.8	11.8	79.2	79.2	130.0	130.0	90.4
96		14.8	8.1	25.2	25.2	10.3	69.3	69.3	130.0	130.0	79.1
48	216	28.8	15.8	49.0	49.0	20.0	130.0	130.0	130.0	130.0	130.0
54		25.6	14.0	43.6	43.6	17.8	119.7	119.7	130.0	130.0	130.0
60		23.0	12.6	39.2	39.2	16.0	107.7	107.7	130.0	130.0	123.1
66		20.9	11.5	35.6	35.6	14.5	97.9	97.9	130.0	130.0	111.9
72		19.2	10.5	32.7	32.7	13.3	89.8	89.8	130.0	130.0	102.6
84		16.5	9.0	28.0	28.0	11.4	77.0	77.0	130.0	130.0	87.9
96		14.4	7.9	24.5	24.5	10.0	67.3	67.3	130.0	130.0	76.9



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
ANCHOR CAPACITIES

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT



HERMES F. NORERO, P.E.
TEXAS P.E. No. 118471
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21
DWG. BY: E.R. CHK. BY: HFN
SCALE: NTS
DWG. #: KAW019

SECTION:
7.6

T & F ANGLE ANCHOR CAPACITIES

MAX. TRIBUTARY WIDTH 'W' (in.)	MAX. SPAN HEIGHT 'H' (in.)	ANCHOR TYPE 'A4'	ANCHOR TYPE 'B4'	ANCHOR TYPE 'C4'	ANCHOR TYPE 'D4'	ANCHOR TYPE 'E4'
48	96	129.6	71.1	130.0	130.0	90.0
54		115.2	63.2	130.0	130.0	80.0
60		103.6	56.9	130.0	130.0	72.0
66		94.2	51.7	130.0	130.0	65.5
72		86.4	47.4	130.0	130.0	60.0
84		74.0	40.6	126.0	126.0	51.4
96		64.8	35.6	110.3	110.3	45.0
48	99	125.6	69.0	130.0	130.0	87.3
54		111.7	61.3	130.0	130.0	77.6
60		100.5	55.2	130.0	130.0	69.8
66		91.4	50.1	130.0	130.0	63.5
72		83.8	46.0	130.0	130.0	58.2
84		71.8	39.4	122.2	122.2	49.9
96		62.8	34.5	106.9	106.9	43.6
48	102	121.9	66.9	130.0	130.0	84.7
54		108.4	59.5	130.0	130.0	75.3
60		97.6	53.5	130.0	130.0	67.8
66		88.7	48.7	130.0	130.0	61.6
72		81.3	44.6	130.0	130.0	56.5
84		69.7	38.2	118.6	118.6	48.4
96		61.0	33.5	103.8	103.8	42.4
48	108	115.2	63.2	130.0	130.0	80.0
54		102.4	56.2	130.0	130.0	71.1
60		92.1	50.6	130.0	130.0	64.0
66		83.8	46.0	130.0	130.0	58.2
72		76.8	42.1	130.0	130.0	53.3
84		65.8	36.1	112.0	112.0	45.7
96		57.6	31.6	98.0	98.0	40.0
48	114	109.1	59.9	130.0	130.0	75.8
54		97.0	53.2	130.0	130.0	67.4
60		87.3	47.9	130.0	130.0	60.6
66		79.3	43.6	130.0	130.0	55.1
72		72.7	39.9	123.8	123.8	50.5
84		62.3	34.2	106.1	106.1	43.3
96		54.6	29.9	92.8	92.8	37.9
48	120	103.6	56.9	130.0	130.0	72.0
54		92.1	50.6	130.0	130.0	64.0
60		82.9	45.5	130.0	130.0	57.6
66		75.4	41.4	128.3	128.3	52.4
72		69.1	37.9	117.6	117.6	48.0
84		59.2	32.5	100.8	100.8	41.1
96		51.8	28.4	88.2	88.2	36.0
48	126	98.7	54.2	130.0	130.0	68.6
54		87.7	48.2	130.0	130.0	61.0
60		79.0	43.3	130.0	130.0	54.9
66		71.8	39.4	122.2	122.2	49.9
72		65.8	36.1	112.0	112.0	45.7
84		56.4	31.0	96.0	96.0	39.2
96		49.4	27.1	84.0	84.0	34.3
48	132	94.2	51.7	130.0	130.0	65.5
54		83.8	46.0	130.0	130.0	58.2
60		75.4	41.4	128.3	128.3	52.4
66		68.5	37.6	116.6	116.6	47.6
72		62.8	34.5	106.9	106.9	43.6
84		53.8	29.6	91.6	91.6	37.4
96		47.1	25.9	80.2	80.2	32.7

MAX. TRIBUTARY WIDTH 'W' (in.)	MAX. SPAN HEIGHT 'H' (in.)	ANCHOR TYPE 'A4'	ANCHOR TYPE 'B4'	ANCHOR TYPE 'C4'	ANCHOR TYPE 'D4'	ANCHOR TYPE 'E4'
48	138	90.1	49.5	130.0	130.0	62.6
54		80.1	44.0	130.0	130.0	55.7
60		72.1	39.6	122.7	122.7	50.1
66		65.5	36.0	111.6	111.6	45.5
72		60.1	33.0	102.3	102.3	41.7
84		51.5	28.3	87.7	87.7	35.8
96		45.1	24.7	76.7	76.7	31.3
48	144	86.4	47.4	130.0	130.0	60.0
54		76.8	42.1	130.0	130.0	53.3
60		69.1	37.9	117.6	117.6	48.0
66		62.8	34.5	106.9	106.9	43.6
72		57.6	31.6	98.0	98.0	40.0
84		49.4	27.1	84.0	84.0	34.3
96		43.2	23.7	73.5	73.5	30.0
48	150	82.9	45.5	130.0	130.0	57.6
54		73.7	40.5	125.4	125.4	51.2
60		66.3	36.4	112.9	112.9	46.1
66		60.3	33.1	102.6	102.6	41.9
72		55.3	30.3	94.1	94.1	38.4
84		47.4	26.0	80.6	80.6	32.9
96		41.5	22.8	70.6	70.6	28.8
48	156	79.7	43.8	130.0	130.0	55.4
54		70.9	38.9	120.6	120.6	49.2
60		63.8	35.0	108.6	108.6	44.3
66		58.0	31.8	98.7	98.7	40.3
72		53.2	29.2	90.5	90.5	36.9
84		45.6	25.0	77.5	77.5	31.6
96		39.9	21.9	67.8	67.8	27.7
48	162	76.8	42.1	130.0	130.0	53.3
54		68.2	37.5	116.1	116.1	47.4
60		61.4	33.7	104.5	104.5	42.7
66		55.8	30.6	95.0	95.0	38.8
72		51.2	28.1	87.1	87.1	35.6
84		43.9	24.1	74.7	74.7	30.5
96		38.4	21.1	65.3	65.3	26.7
48	168	74.0	40.6	126.0	126.0	51.4
54		65.8	36.1	112.0	112.0	45.7
60		59.2	32.5	100.8	100.8	41.1
66		53.8	29.6	91.6	91.6	37.4
72		49.4	27.1	84.0	84.0	34.3
84		42.3	23.2	72.0	72.0	29.4
96		37.0	20.3	63.0	63.0	25.7
48	174	71.5	39.2	121.7	121.7	49.7
54		63.5	34.9	108.1	108.1	44.1
60		57.2	31.4	97.3	97.3	39.7
66		52.0	28.5	88.5	88.5	36.1
72		47.7	26.2	81.1	81.1	33.1
84		40.8	22.4	69.5	69.5	28.4
96		35.7	19.6	60.8	60.8	24.8
48	180	69.1	37.9	117.6	117.6	48.0
54		61.4	33.7	104.5	104.5	42.7
60		55.3	30.3	94.1	94.1	38.4
66		50.3	27.6	85.5	85.5	34.9
72		46.1	25.3	78.4	78.4	32.0
84		39.5	21.7	67.2	67.2	27.4
96		34.5	19.0	58.8	58.8	24.0

MAX. TRIBUTARY WIDTH 'W' (in.)	MAX. SPAN HEIGHT 'H' (in.)	ANCHOR TYPE 'A4'	ANCHOR TYPE 'B4'	ANCHOR TYPE 'C4'	ANCHOR TYPE 'D4'	ANCHOR TYPE 'E4'
48	186	66.9	36.7	113.8	113.8	46.5
54		59.4	32.6	101.2	101.2	41.3
60		53.5	29.4	91.0	91.0	37.2
66		48.6	26.7	82.8	82.8	33.8
72		44.6	24.5	75.9	75.9	31.0
84		38.2	21.0	65.0	65.0	26.5
96		33.4	18.4	56.9	56.9	23.2
48	192	64.8	35.6	110.3	110.3	45.0
54		57.6	31.6	98.0	98.0	40.0
60		51.8	28.4	88.2	88.2	36.0
66		47.1	25.9	80.2	80.2	32.7
72		43.2	23.7	73.5	73.5	30.0
84		37.0	20.3	63.0	63.0	25.7
96		32.4	17.8	55.1	55.1	22.5
48	198	62.8	34.5	106.9	106.9	43.6
54		55.8	30.6	95.0	95.0	38.8
60		50.3	27.6	85.5	85.5	34.9
66		45.7	25.1	77.8	77.8	31.7
72		41.9	23.0	71.3	71.3	29.1
84		35.9	19.7	61.1	61.1	24.9
96		31.4	17.2	53.5	53.5	21.8
48	204	61.0	33.5	103.8	103.8	42.4
54		54.2	29.7	92.2	92.2	37.6
60		48.8	26.8	83.0	83.0	33.9
66		44.3	24.3	75.5	75.5	30.8
72		40.6	22.3	69.2	69.2	28.2
84		34.8	19.1	59.3	59.3	24.2
96		30.5	16.7	51.9	51.9	21.2
48	210	59.2	32.5	100.8	100.8	41.1
54		52.6	28.9	89.6	89.6	36.6
60		47.4	26.0	80.6	80.6	32.9
66		43.1	23.6	73.3	73.3	29.9
72		39.5	21.7	67.2	67.2	27.4
84		33.8	18.6	57.6	57.6	23.5
96		29.6	16.3	50.4	50.4	20.6
48	216	57.6	31.6	98.0	98.0	40.0
54		51.2	28.1	87.1	87.1	35.6
60		46.1	25.3	78.4	78.4	32.0
66		41.9	23.0	71.3	71.3	29.1
72		38.4	21.1	65.3	65.3	26.7
84		32.9	18.1	56.0	56.0	22.9
96		28.8	15.8	49.0	49.0	20.0

NOTE:
IN TABLE TITLE, "ANCHOR TYPE" FOLLOWED BY FOUR (4), REPRESENTS FOUR (4) ANCHORS PER CLIP.



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
ANCHOR CAPACITIES

ANCHOR CAPACITIES

PREPARED BY: **BUILDING DROPS, INC.**
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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TEXAS P.E. No. 118471
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

DWG. #: KAW019

SECTION:

7.7

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
WIND LOAD ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
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TEXAS P.E. No. 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

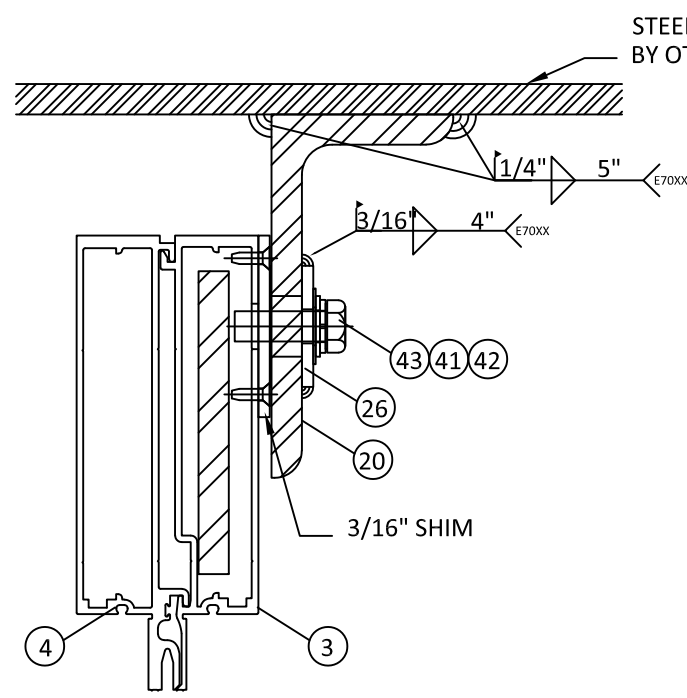
DWG. BY: E.R. **CHK. BY:** HFN

SCALE: NTS

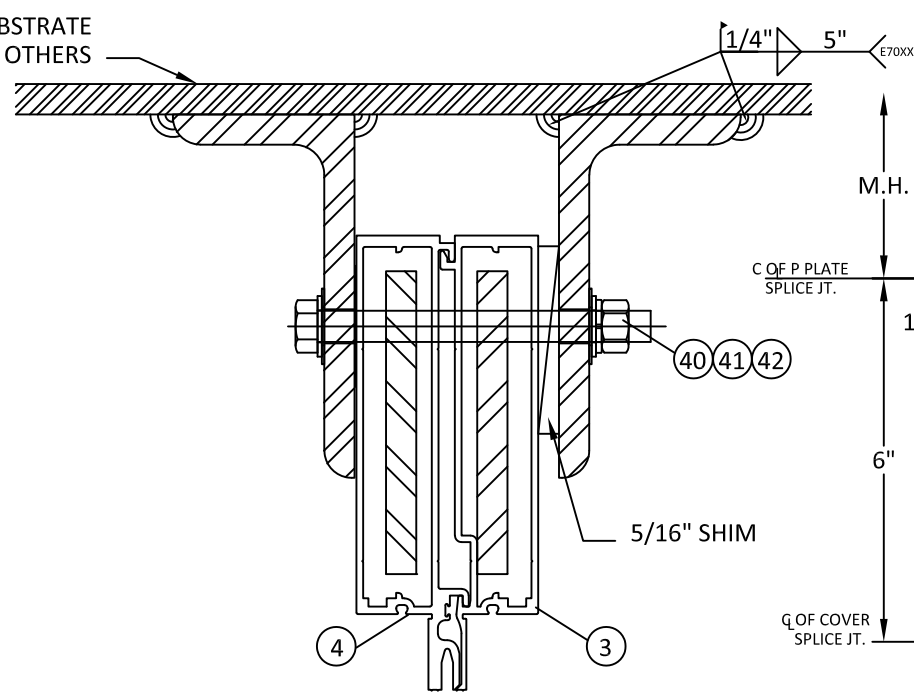
DWG. #: KAW019

SECTION:

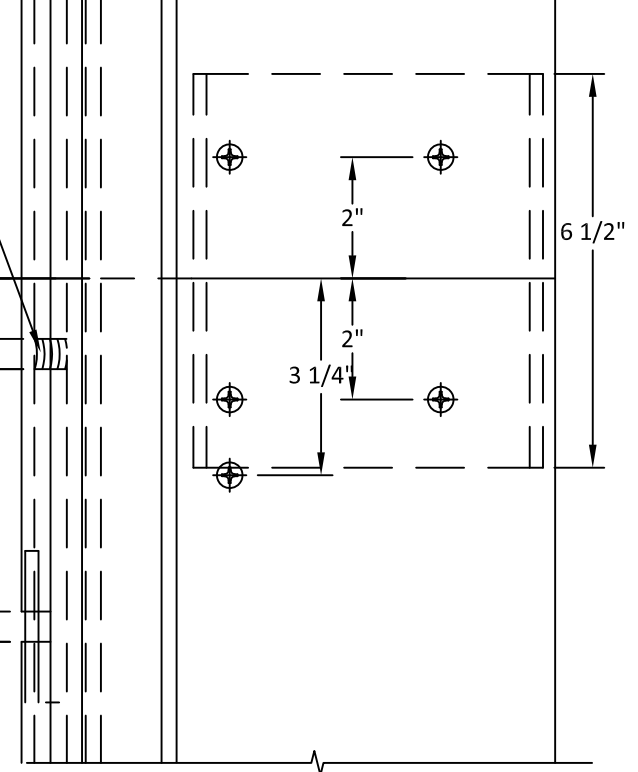
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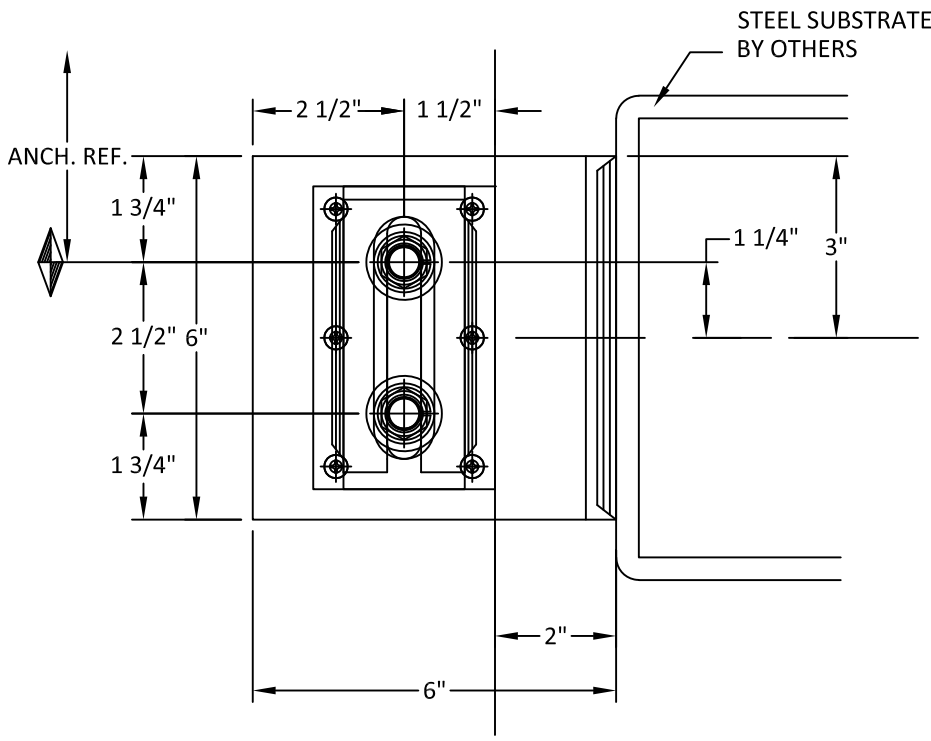
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8.0 **ANCHOR DETAIL**
WIND LOAD ANCHOR AT JAMB



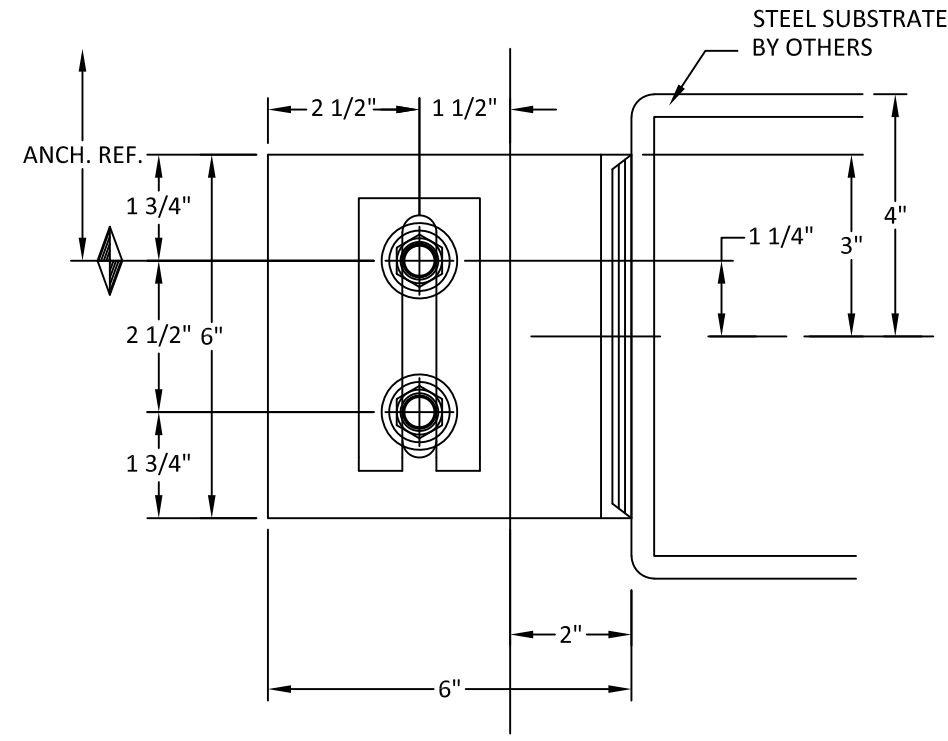
2
8.0 **ANCHOR DETAIL**
WIND LOAD ANCHOR AT VERTICAL MULLION



3
8.0 **ANCHOR DETAIL**
MULLION SPLICE



ANCHOR DETAIL
WIND LOAD ANCHOR AT STEEL SUBSTRATE JAMB CONNECTION



ANCHOR DETAIL
WIND LOAD ANCHOR AT STEEL SUBSTRATE INTERMEDIATE VERTICAL CONNECTION

s:\projects\kawneer company\tdr-21-0118 -tdl-submittal\dwgs\116548\kaw1630 -fl16548 dwgs 8 wind-dead load anchor dtls.dwg 12/9/2021 2:56 PM

TITLE: 1630 SS IR CURTAIN WALL
(IMPACT)
WIND LOAD ANCHOR DETAILS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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HERMES F. NORERO, P.E.
TEXAS P.E. No. 118471
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

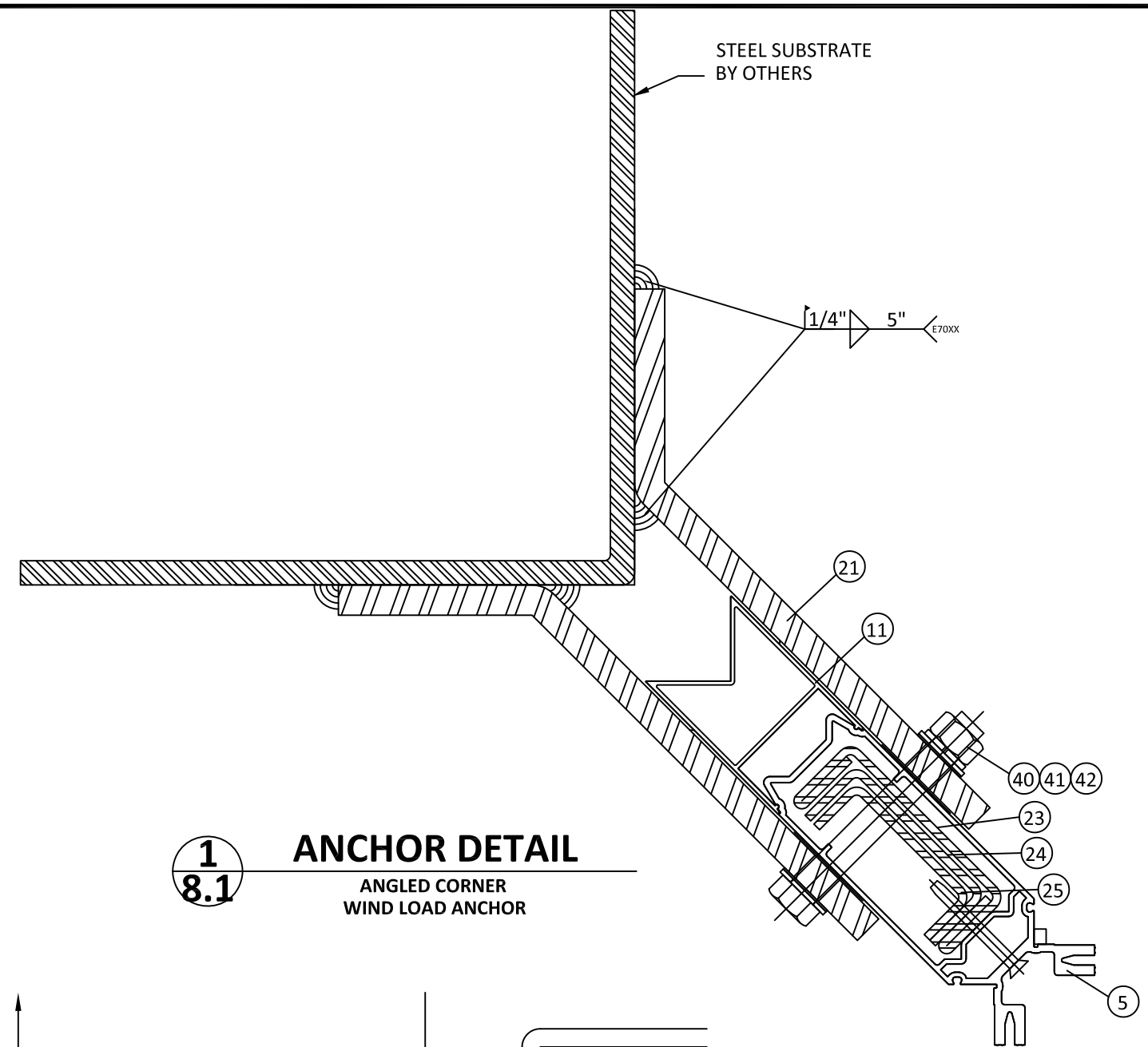
DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

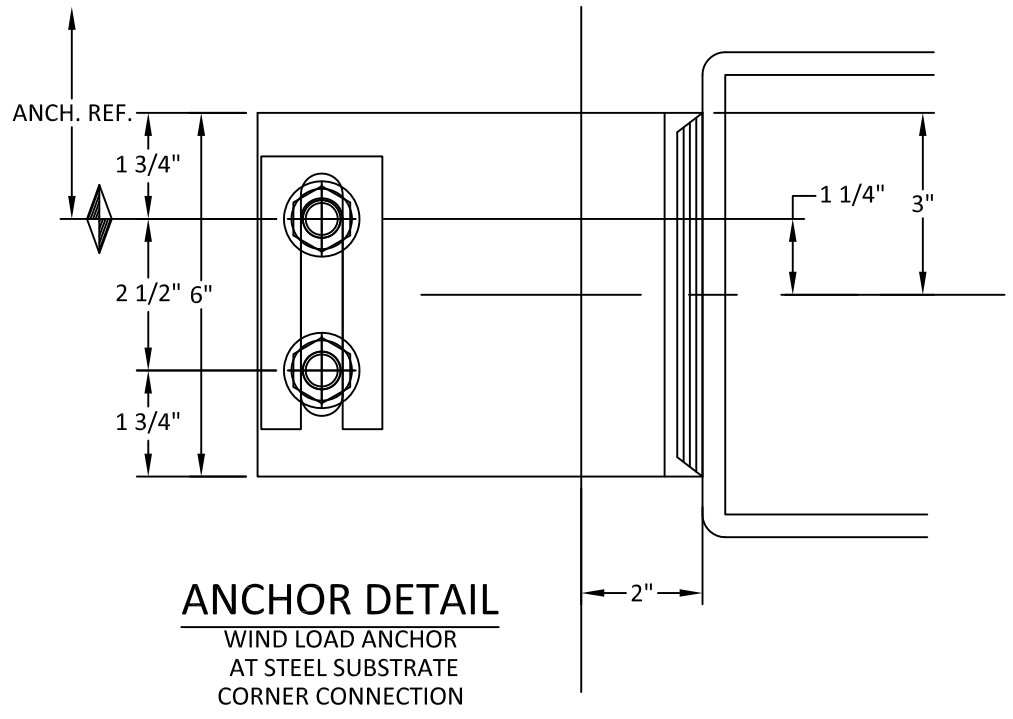
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SECTION:

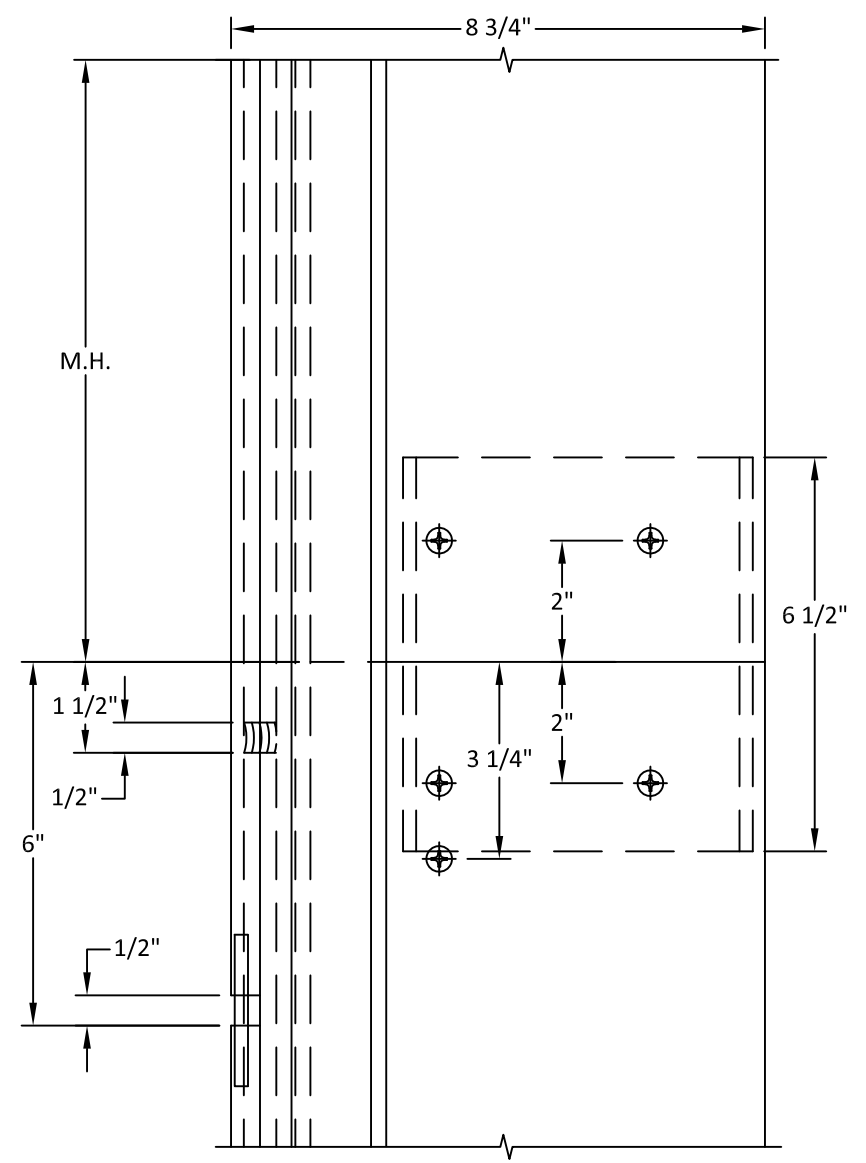
8.1



1
8.1 ANCHOR DETAIL
ANGLED CORNER
WIND LOAD ANCHOR



ANCHOR DETAIL
WIND LOAD ANCHOR
AT STEEL SUBSTRATE
CORNER CONNECTION



2
8.1 ANCHOR DETAIL
CORNER MULLION SPLICE

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TITLE: 1630 SS IR CURTAIN WALL
(IMPACT)
COMPONENTS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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DATE: 02.11.21

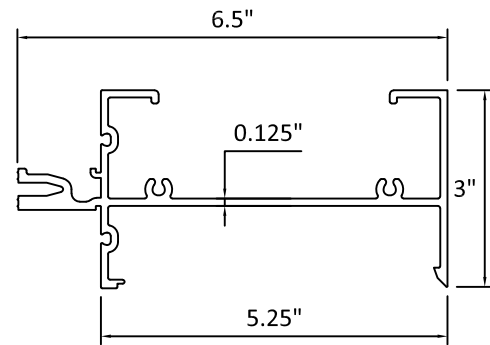
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SCALE: NTS

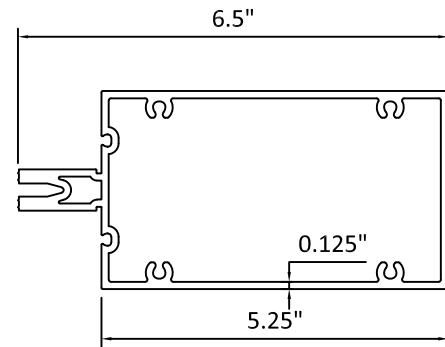
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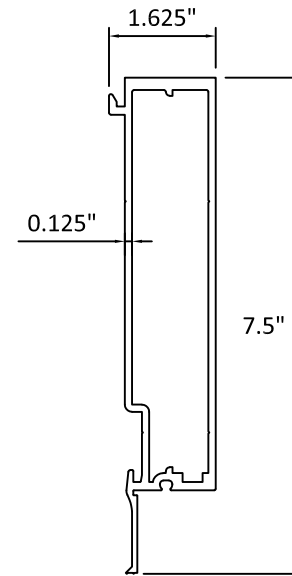
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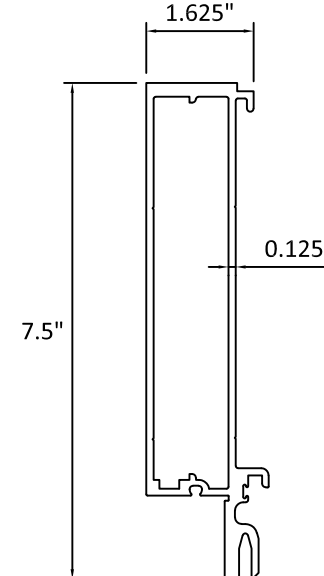
① HEAD & SILL FRAME



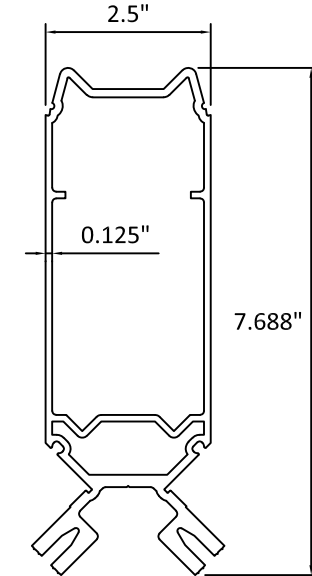
② INTERMEDIATE HORIZONTAL



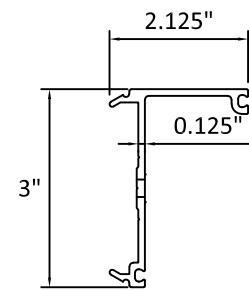
③ FEMALE MULLION HALF



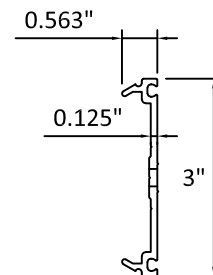
④ MALE MULLION HALF



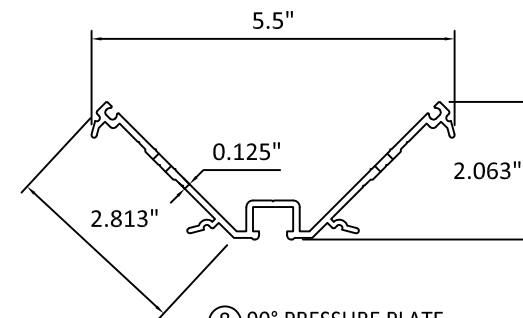
⑤ 90° CORNER MULLION



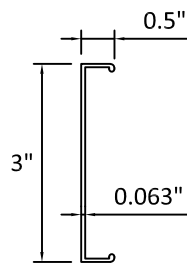
⑥ OFFSET PRESSURE PLATE



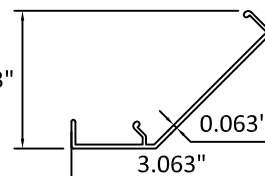
⑦ PRESSURE PLATE



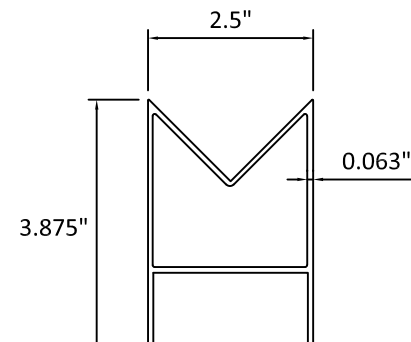
⑧ 90° PRESSURE PLATE



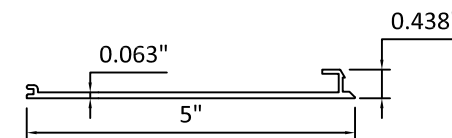
⑨ COVER



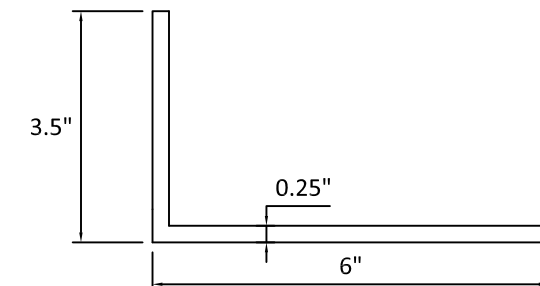
⑩ 90° CORNER COVER



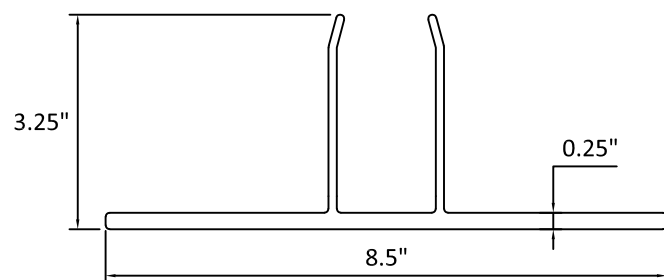
⑪ 90° INTERIOR CORNER COVER



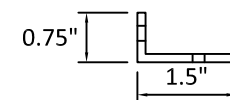
⑫ FILLER



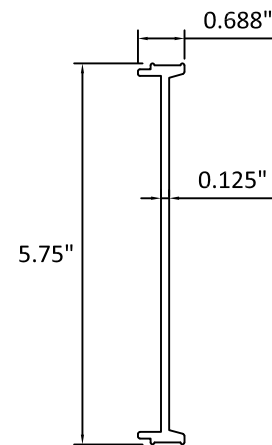
⑬ ⑭ LEFT - RIGHT ANCHOR ANGLE



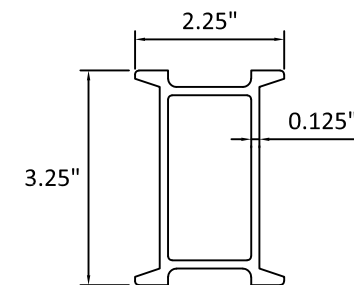
⑮ 90° CORNER 'T' ANCHOR



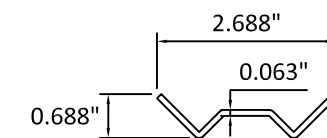
⑯ ⑰ 90° CORNER SHEAR BLOCK



⑱ MULLION SPLICE SLEEVE



⑲ 90° CORNER MULLION SPLICE SLEEVE



⑳ PRESSURE PLATE SLEEVE

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TITLE: 1630 SS IR CURTAIN WALL
(IMPACT)
COMPONENTS

PREPARED BY: **B.D. BUILDING DROPS**
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
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REMARKS	BY	DATE

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HERMES F. NORERO, P.E.
TEXAS P.E. No 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 02.11.21

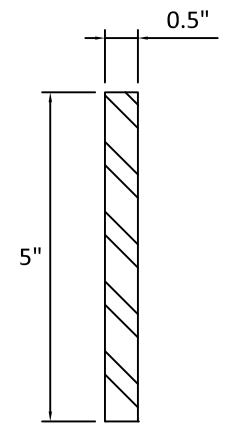
DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

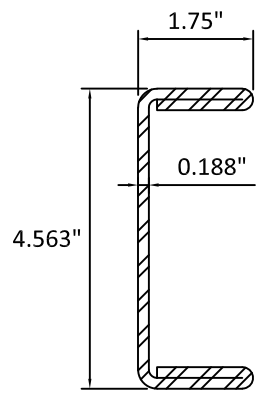
DWG. #: KAW019

SECTION:

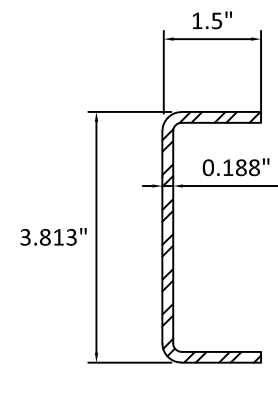
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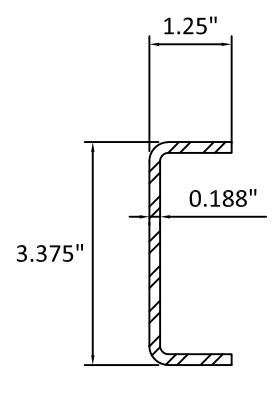
22 STEEL REINFORCEMENT BAR



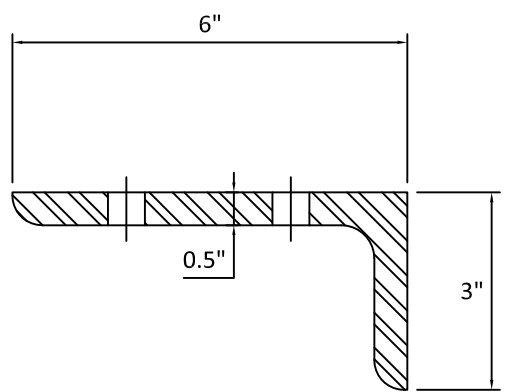
23 STEEL REINFORCEMENT #1



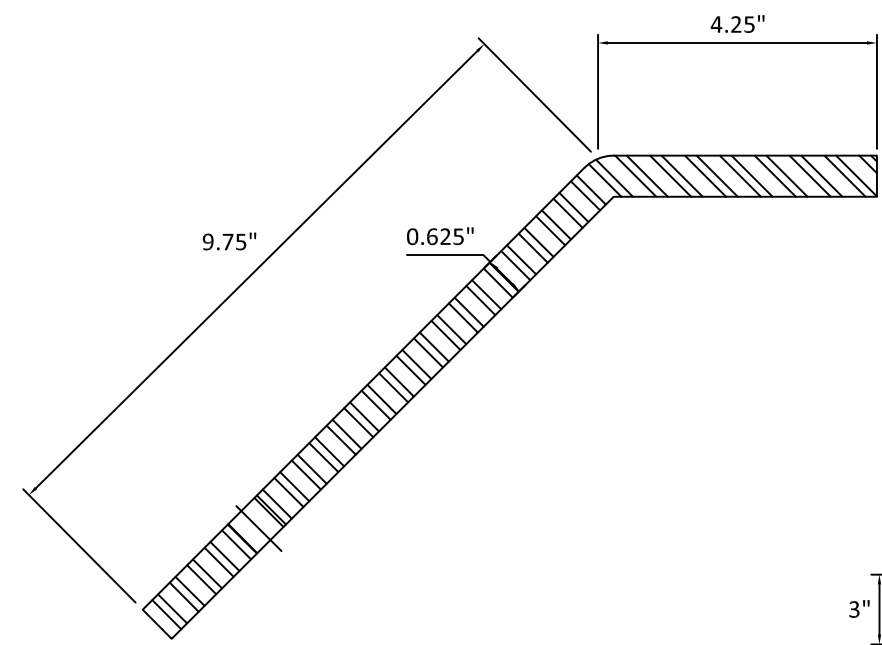
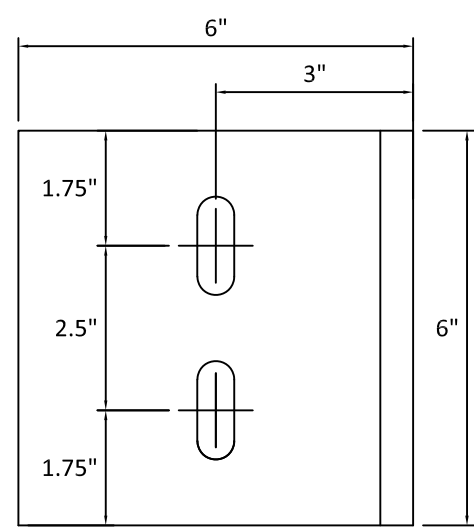
24 STEEL REINFORCEMENT #2



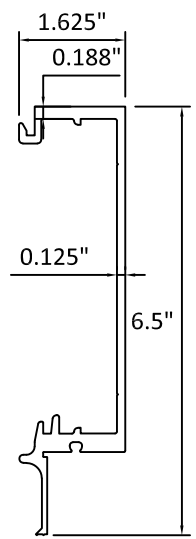
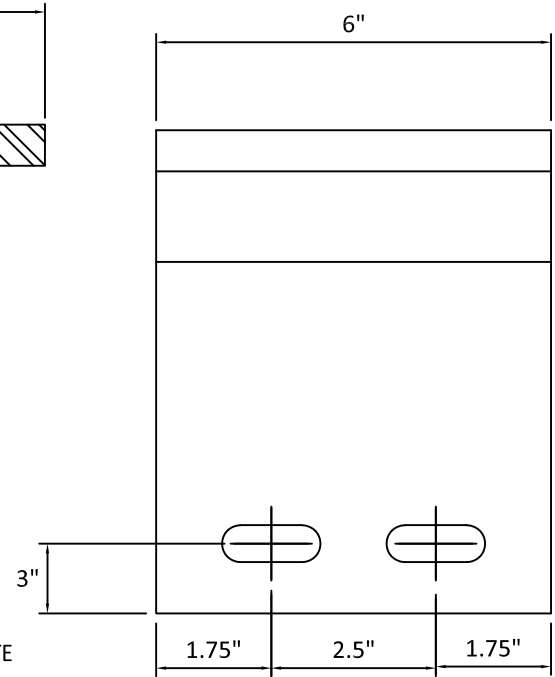
25 STEEL REINFORCEMENT #3



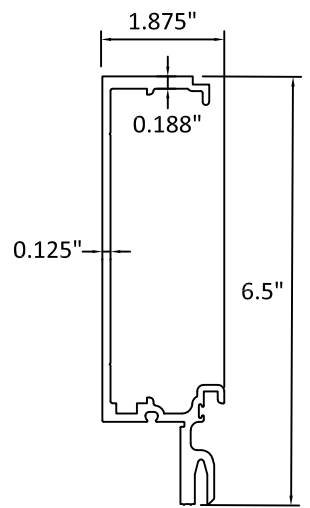
26 ANCHOR PLATE



26A CORNER ANCHOR PLATE



51 FEMALE MULLION HALF



52 MALE MULLION HALF

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BILL OF MATERIALS

ITEM	PART NO.	DESCRIPTION	MATERIAL
1	176008	HEAD/SILL	6063-T6
2	176007	INTERMEDIATE HORIZONTAL	6063-T6
3	176004	6 1/4" FEMALE MULLION HALF	6063-T6
4	176003	6 1/4" MALE MULLION HALF	6063-T6
5	162277	90° CORNER MULLION	6063-T6
6	176203	JAMB PRESSURE PLATE	6063-T6
7	176202	PRESSURE PLATE	6063-T6
8	176204	90° CORNER PRESSURE PLATE	6063-T6
9	176011	3" COVER	6063-T6
10	176204	90° EXTERIOR CORNER COVER	6063-T6
11	176014	90° INTERIOR CORNER COVER	6063-T6
12	162020	FILLER	6063-T6
13	176212	ANCHOR ANGLE LEFT	6063-T6
14	176213	ANCHOR ANGLE RIGHT	6063-T6
15	162550	90° CORNER "T" ANCHOR CLIP	6063-T6
16	176217	90° CORNER HEAD/SILL SHEAR BLOCK	6063-T6
17	176218	90° CORNER HEAD/SILL SHEAR BLOCK	6063-T6
18	176206	6 1/4" MULLION SPLICE SLEEVE	6063-T6
19	162306	90° CORNER MULLION SPLICE SLEEVE	6063-T6
20		6"X3"X1/2"X6" LG STEEL ANGLE	ASTM A36
21		9 1/2"X 4"X 5/8"X6" LG STEEL ANGLE	ASTM A36
22	NONE	STEEL REINFORCEMENT BAR	STEEL PER ASTM A1011
23	162301	HI-SPAN STEEL REINFORCEMENT #1	STEEL PER ASTM A1011
24	162302	HI-SPAN STEEL REINFORCEMENT #2	STEEL PER ASTM A1011
25	162303	HI-SPAN STEEL REINFORCEMENT #3	STEEL PER ASTM A1011
26	176201	ANCHOR PLATE	ASTM A36
27	176221	PRESSURE PLATE SLEEVE	0.090" ALUMINUM SHEET
28	176310	THERMAL SEPARATOR	EPDM 70+/-5 DUROM
29	57857	PERIMETER GASKET	EPDM 70+/-5 DUROM

30	127196	EXTERIOR GLAZING GASKET	TREMCO TR-20494P EPDM DUROMETER 60 +/-5
31	127195	INTERIOR GLAZING GASKET	TREMCO TR-2983W EPDM DUROMETER 60 +/-5
32	128249	1/4"X1" HWHTF AB 300 SERIES	STAINLESS STEEL
33	128509	#12 X 1" HWHTF AB 300 SERIES	STAINLESS STEEL
34	128401	#10 X 1" FHTF B 300 SERIES	STAINLESS STEEL
35	28899	#12-24 X 1" FHMS 300 SERIES	STAINLESS STEEL
36	28692	1/4-20 X 2 1/2" FHTCMS D	ZINC PLATED CARBON STEEL
37	129396	#12 X 7/16" PHTF B 430 SERIES	STAINLESS STEEL
38	128267	#12 X 1" PHTF AB 300 SERIES	STAINLESS STEEL
39	128563	#12 X 3 1/2" FHTF AB 300 SERIES	STAINLESS STEEL
40	128562	1/2-13 X 5 1/2" HEX CAP SCREW SERIES 300	STAINLESS STEEL
41	128260	1/2" FLAT WASHER SERIES 300	STAINLESS STEEL
42	128524	1/2 LOCK WASHER SERIES 300	STAINLESS STEEL
43	128251	1/2-13 X 1 1/2" HEX CAP SCREW	STAINLESS STEEL
44	128558	5/8-11 X 5" HEX CAP SCREW 300 SERIES	STAINLESS STEEL
45	128560	5/8 FLAT WASHER SERIES 300	STAINLESS STEEL
46	977110	#10 X 5/8" FHTF B 300 SERIES	STAINLESS STEEL
47	216301	SLIP WASHER	#101 NYLON
48	27151	1"X1"X1/8"	ALUMINUM ANGLE
49	27150	1"X1"X1/16"	ALUMINUM ANGLE
50	27903	SETTING BLOCK	EPDM 85+/-5 DUROM
51	176001	5 1/4" MALE MULLION HALF	6063-T6
51	176002	5 1/4" FEMALE MULLION HALF	6063-T6
52	176001	5 1/4" MALE MULLION HALF	6063-T6



555 GUTHRIDGE CT
NORCROSS, GA 30092
PH: (770) 840-6431

TITLE: 1630 SS IR CURTAIN WALL (IMPACT)
BILL OF MATERIALS

PREPARED BY: BUILDING DROPS, INC.
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TBPE FIRM No. 13734

DATE: 02.11.21

DWG. BY: E.R. CHK. BY: HFN

SCALE: NTS

DWG. #: KAW019

SECTION:

9.2