



YKK AP AMERICA, Inc.

YHC 300 OG

Curtain Wall Systems

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 7 THRU 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.

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 CAPACITY 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. |

GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE, INTERNATIONAL RESIDENTIAL CODE.
- 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.
- WHEN USED IN AREAS REQUIRING WIND BORNE DEBRIS PROTECTION THIS PRODUCT COMPLIES WITH CHAPTER 16 OF 2018 INTERNATIONAL BUILDING CODE AND DOES NOT REQUIRE AN IMPACT RESISTANT COVERING IN WIND ZONE 3 OR LESS.
- WHEN USED IN AREAS REQUIRING WIND BORNE DEBRIS PROTECTION THIS PRODUCT COMPLIES WITH CHAPTER 16 OF 2018 INTERNATIONAL BUILDING CODE AND DOES REQUIRE AN IMPACT RESISTANT COVERING IN WIND ZONE 4.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE.

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1	COVER SHEET & GENERAL NOTES
2	ELEVATION
3	VERTICAL SECTIONS
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5	DOOR CONNECTION DETAILS
6	GLAZING DETAILS
7	F, T & S ANCHOR DETAILS
8	DEAD/WIND LOAD ANCHOR DETAILS
9	COMPONENTS & BILL OF MATERIALS



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**

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

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: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

SECTION:
1.0
 [PAGE 1 OF 72]

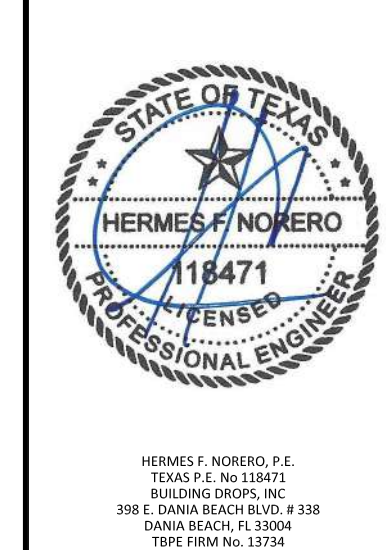
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 ELEVATION

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SECTION: **2.0**
 [PAGE 2 OF 72]

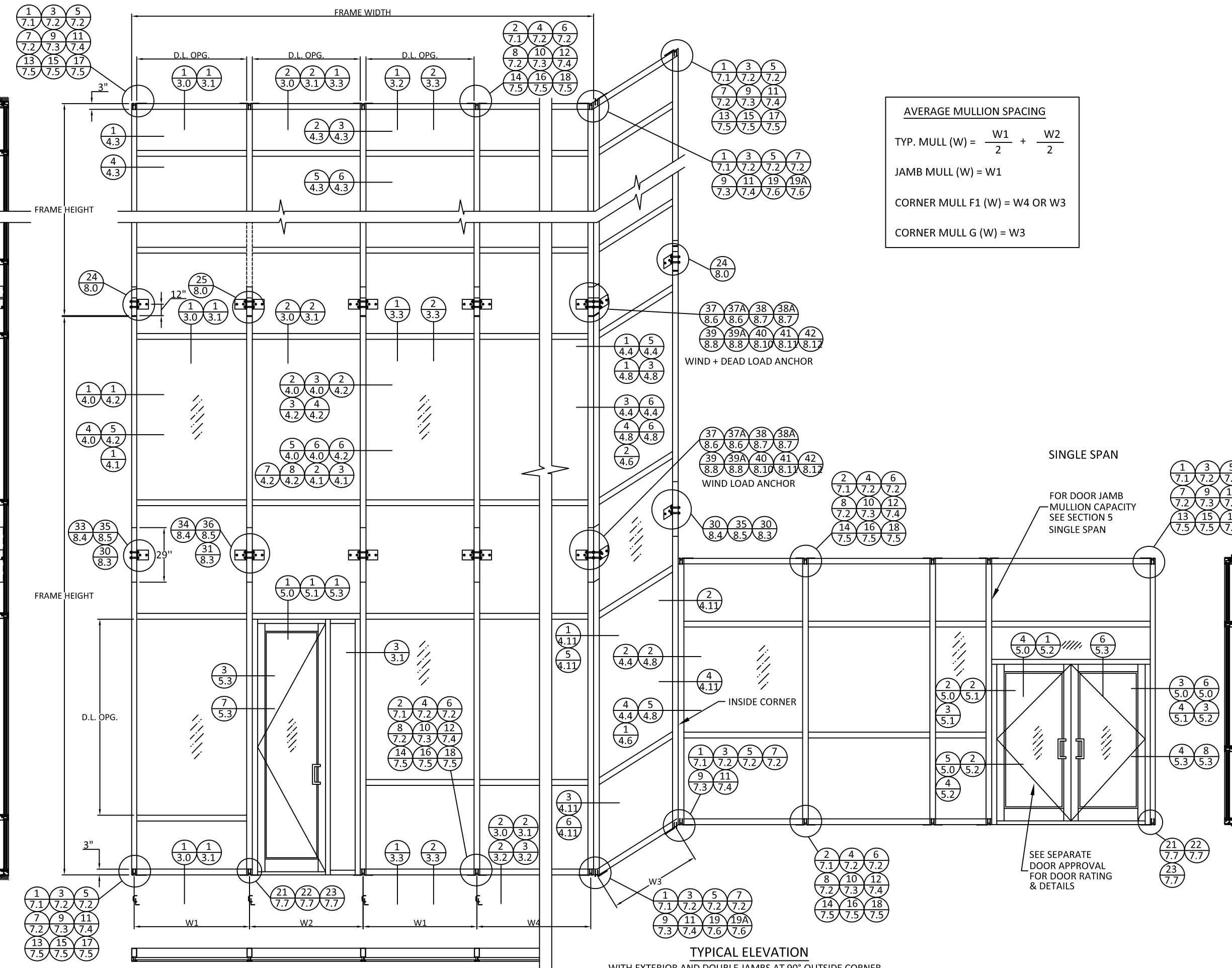
AVERAGE MULLION SPACING

TYP. MULL (W) = $\frac{W1}{2} + \frac{W2}{2}$

JAMB MULL (W) = W1

CORNER MULL F1 (W) = W4 OR W3

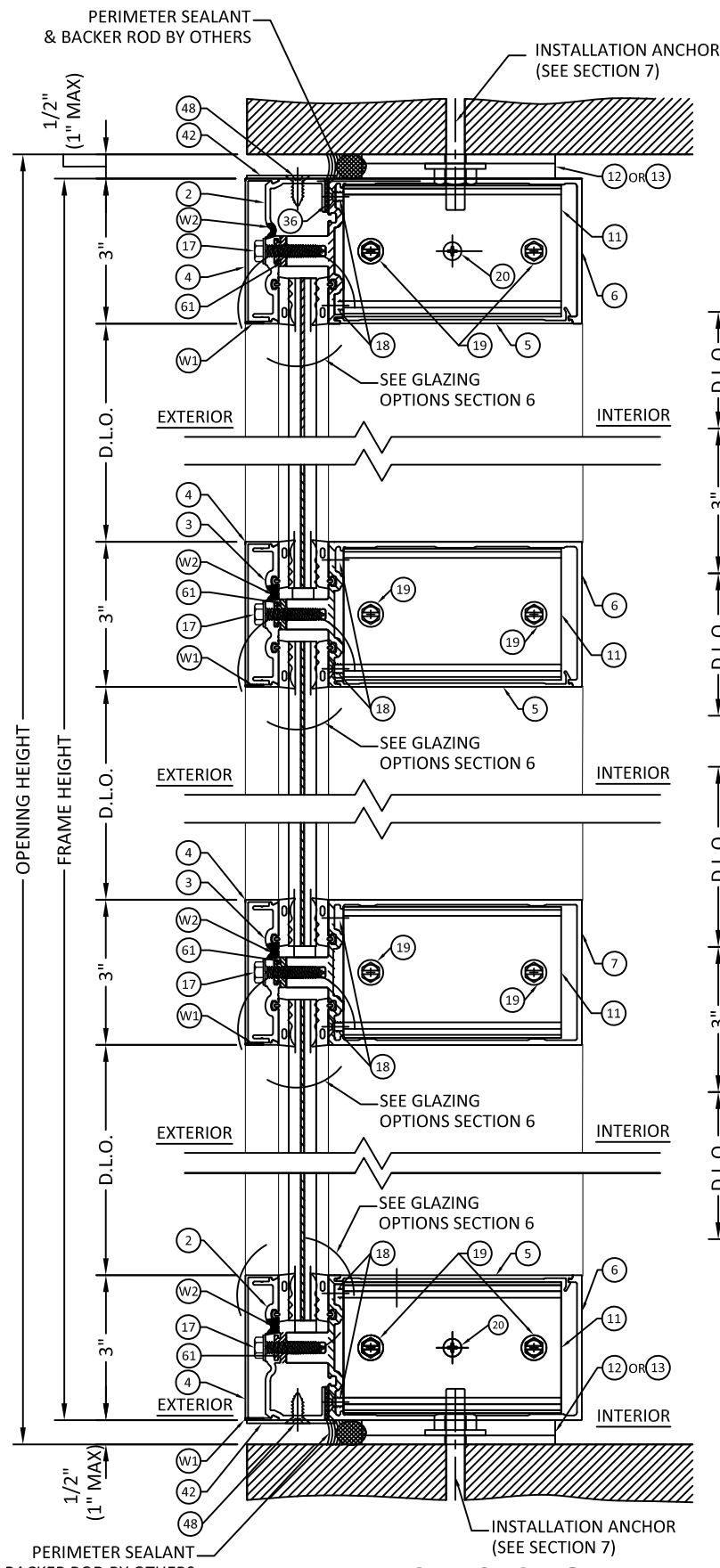
CORNER MULL G (W) = W3



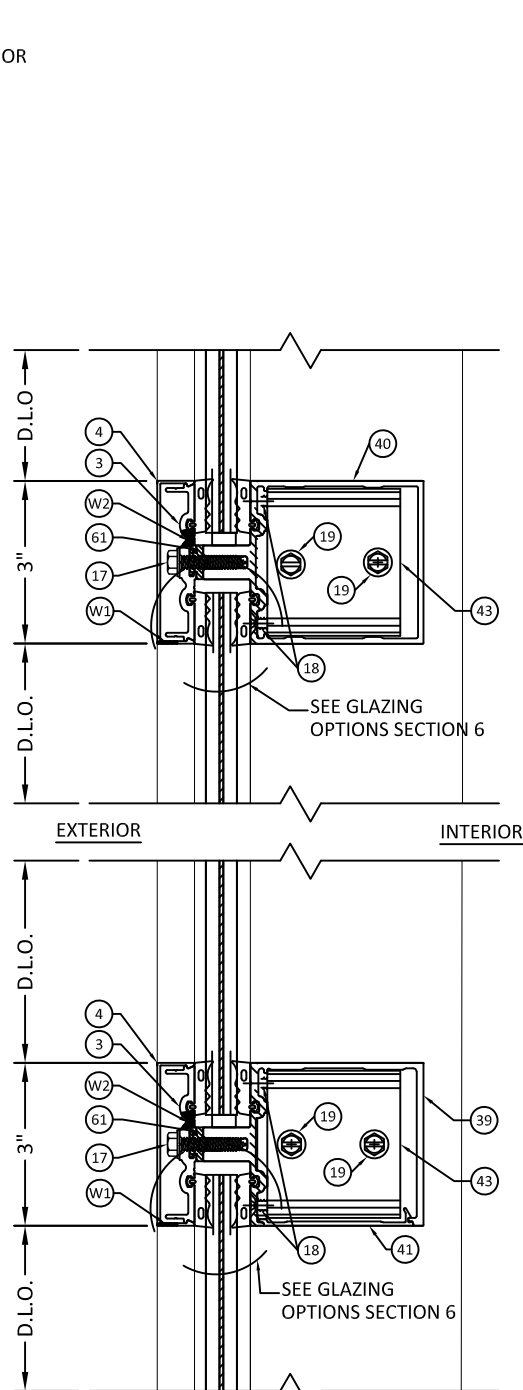
TYPICAL ELEVATION
 WITH EXTERIOR AND DOUBLE JAMBS AT 90° OUTSIDE CORNER

s:\projects\ykk_ap_america, inc\tdr-21-0820 - tdr submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 1 thru 4 - cover, elev, vert. & horiz. dtls.dwg
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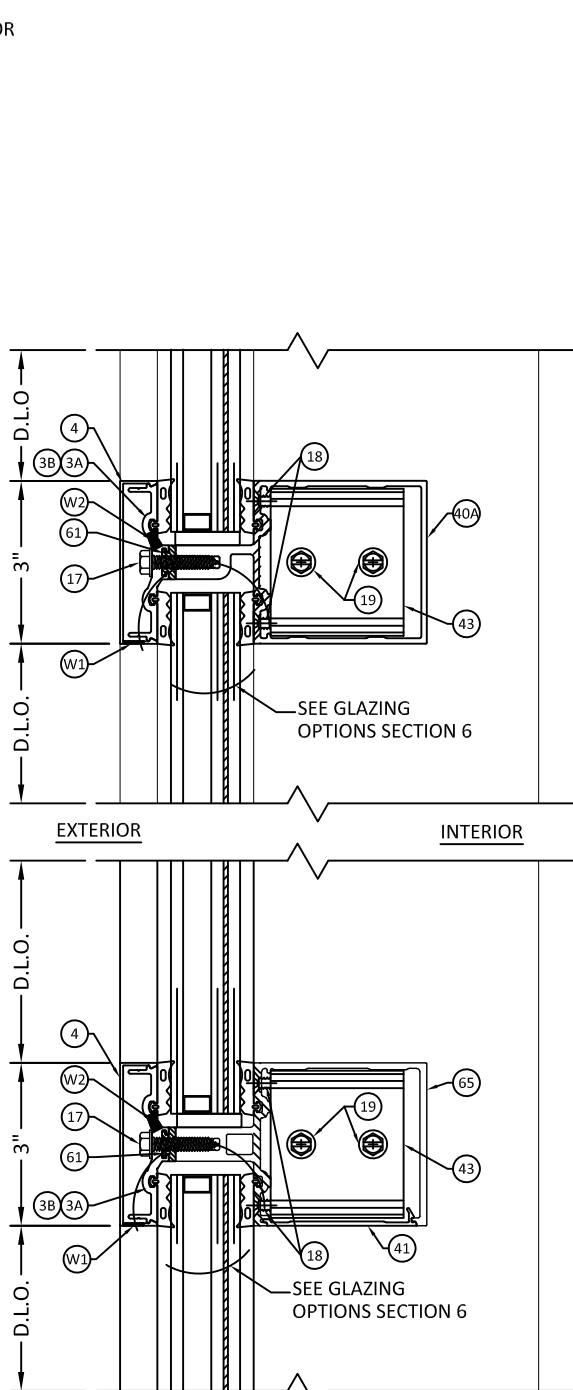
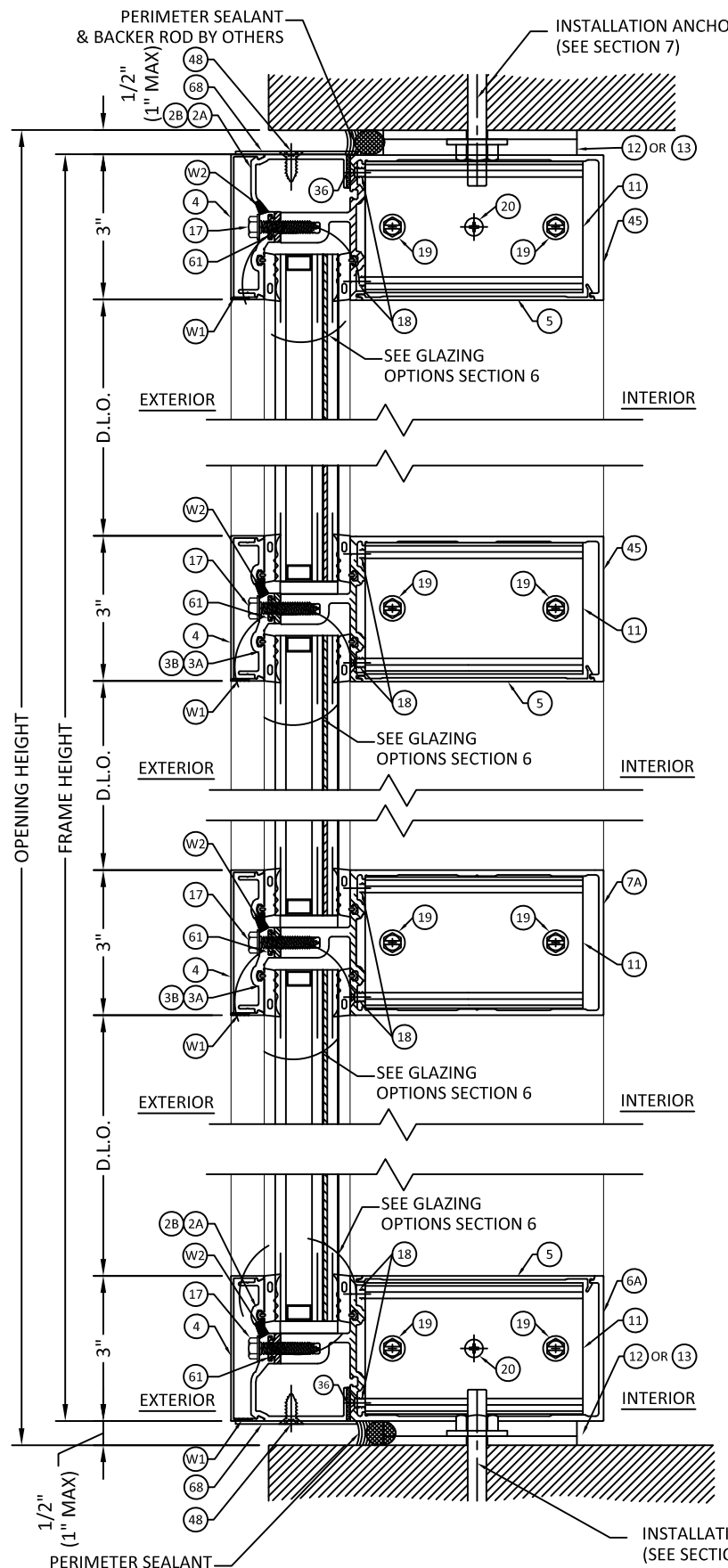
LIGHT DUTY MULLIONS - VERTICAL SECTIONS



1
3.0
VERTICAL SECTION
LIGHT DUTY MULLION
MONOLITHIC GLASS



2
3.0
VERTICAL SECTION
LIGHT DUTY MULLION
INSULATING GLASS



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



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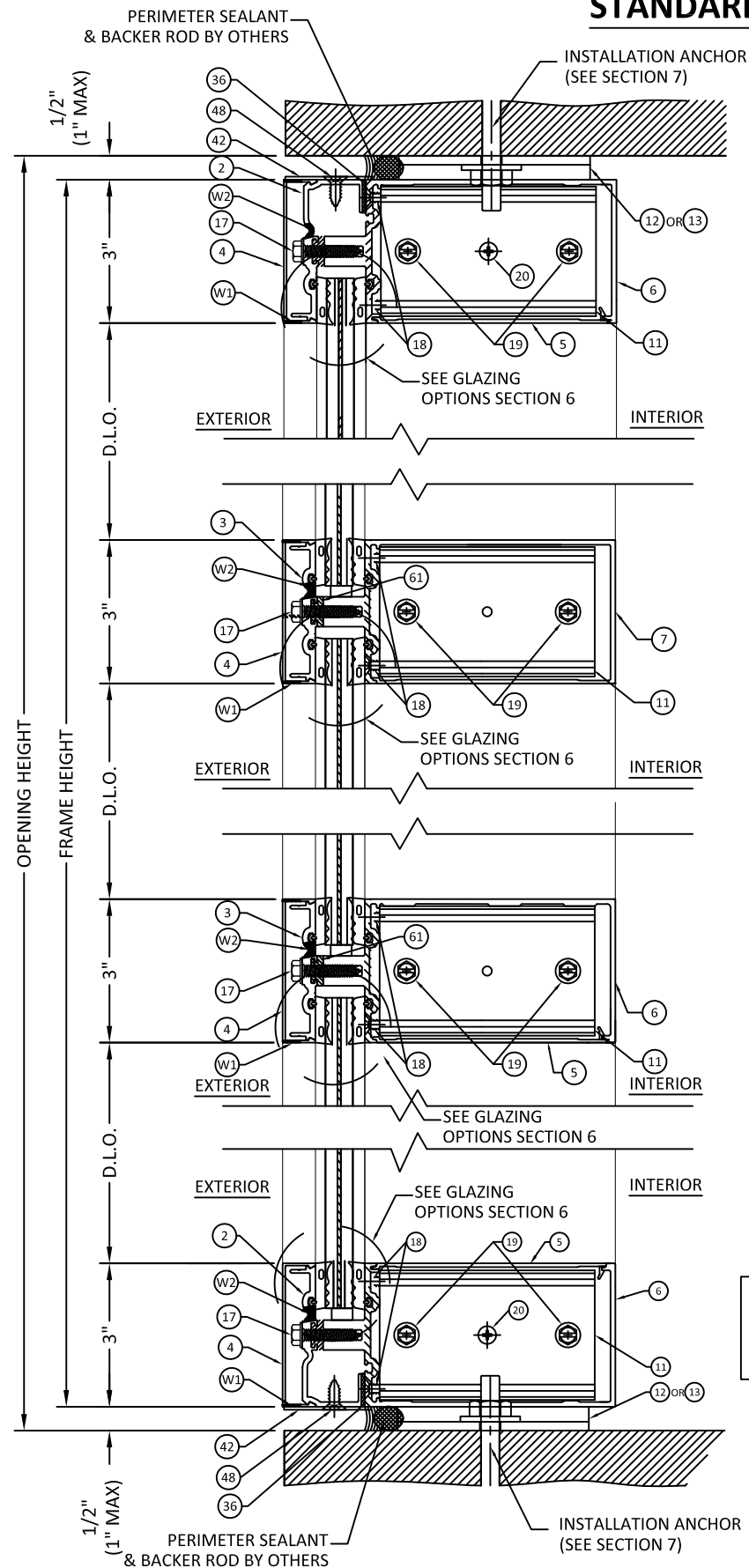
HERMES F. NORERO, P.E.
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BUILDING DROPS, INC
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SECTION:

3.0
[PAGE 3 OF 72]

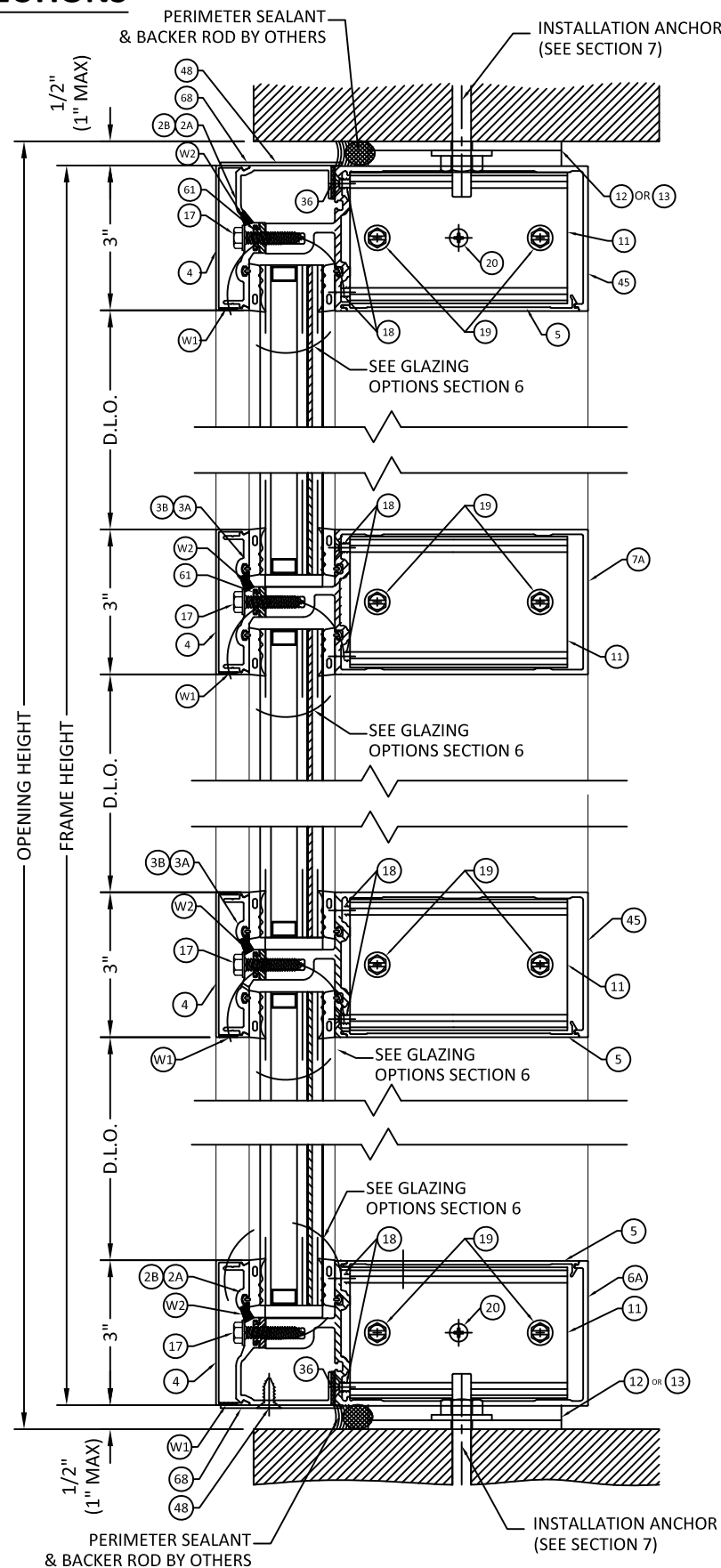
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STANDARD MULLIONS - VERTICAL SECTIONS



1
3.1 VERTICAL SECTION
STANDARD MULLION
MONOLITHIC GLASS

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



2
3.1 VERTICAL SECTION
STANDARD MULLION
INSULATING GLASS



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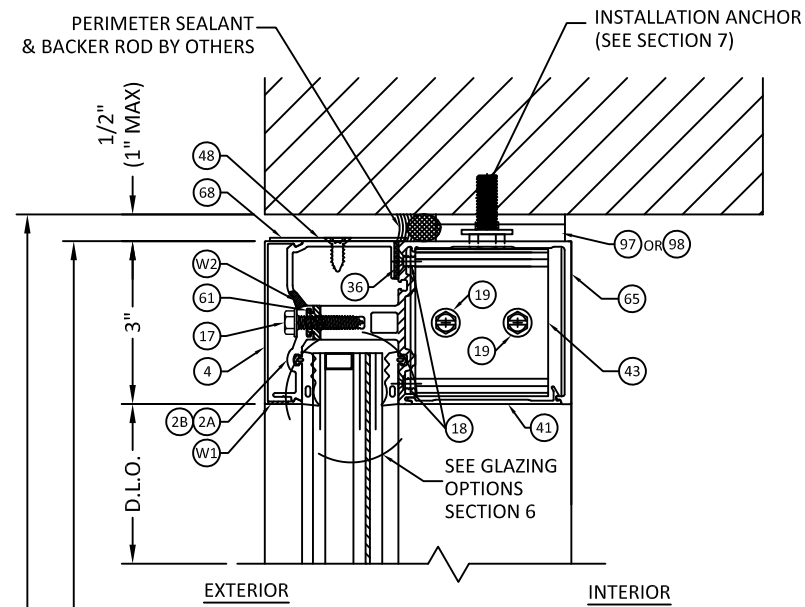
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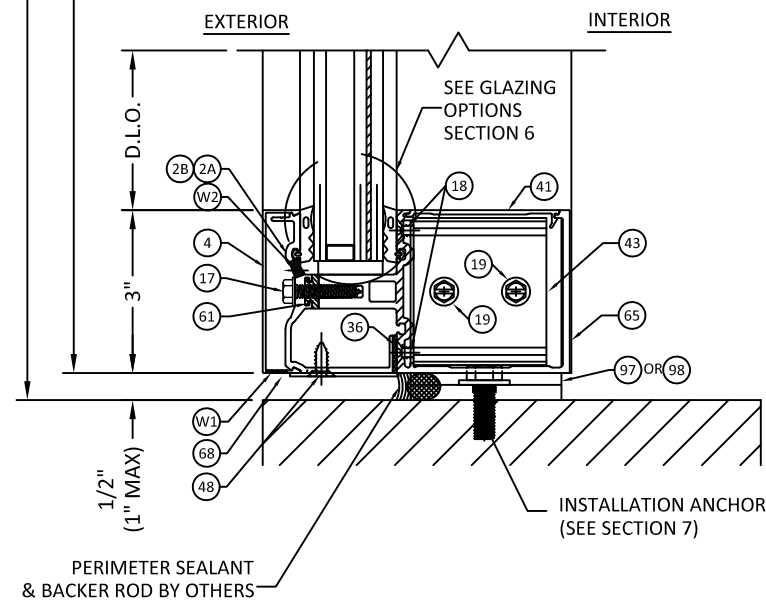
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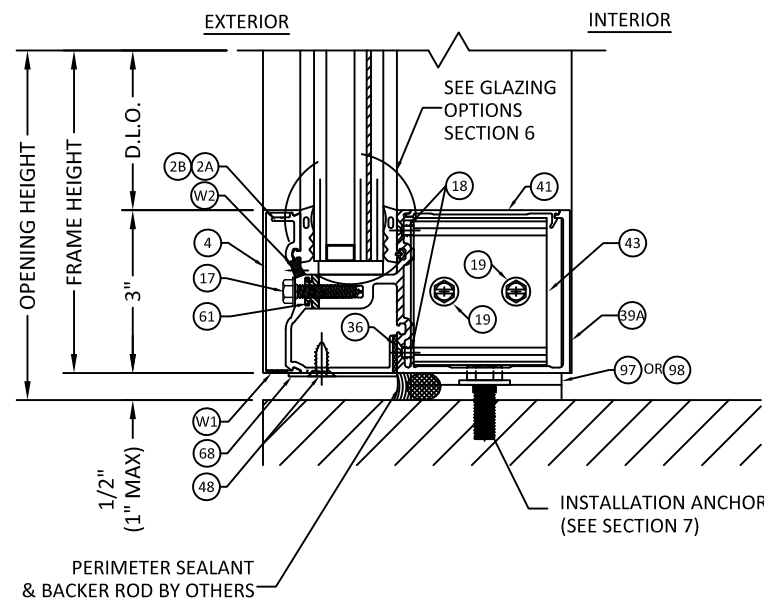
SHALLOW MULLIONS - VERTICAL SECTIONS



1
3.3 VERTICAL SECTION
SHALLOW DEPTH MULLION
INSULATING GLASS



2
3.2 VERTICAL SECTION
SHALLOW DEPTH MULLION
INSULATING GLASS



3
3.2 VERTICAL SECTION
SHALLOW DEPTH MULLION
INSULATING GLASS



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TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
VERTICAL SECTION

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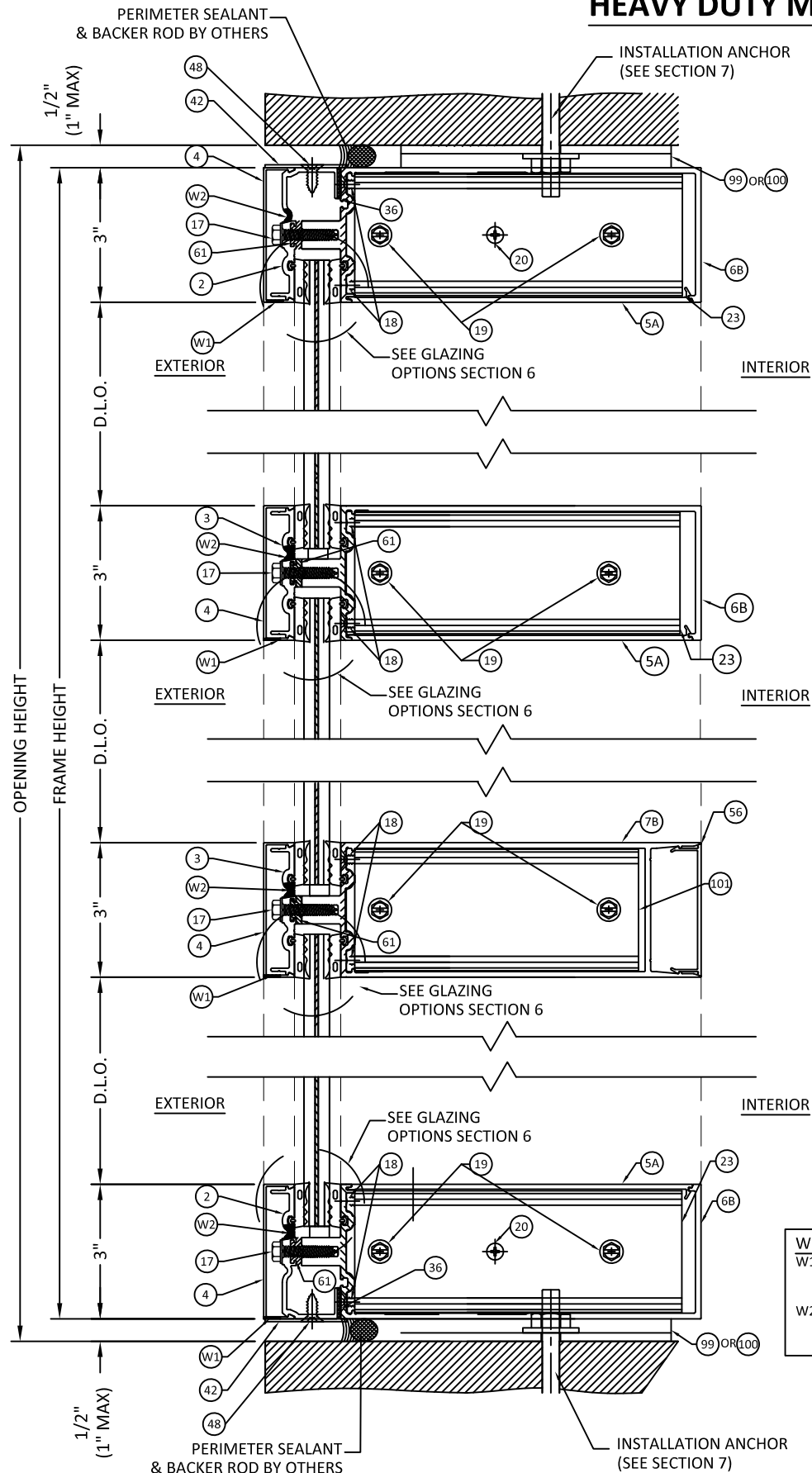
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3.2

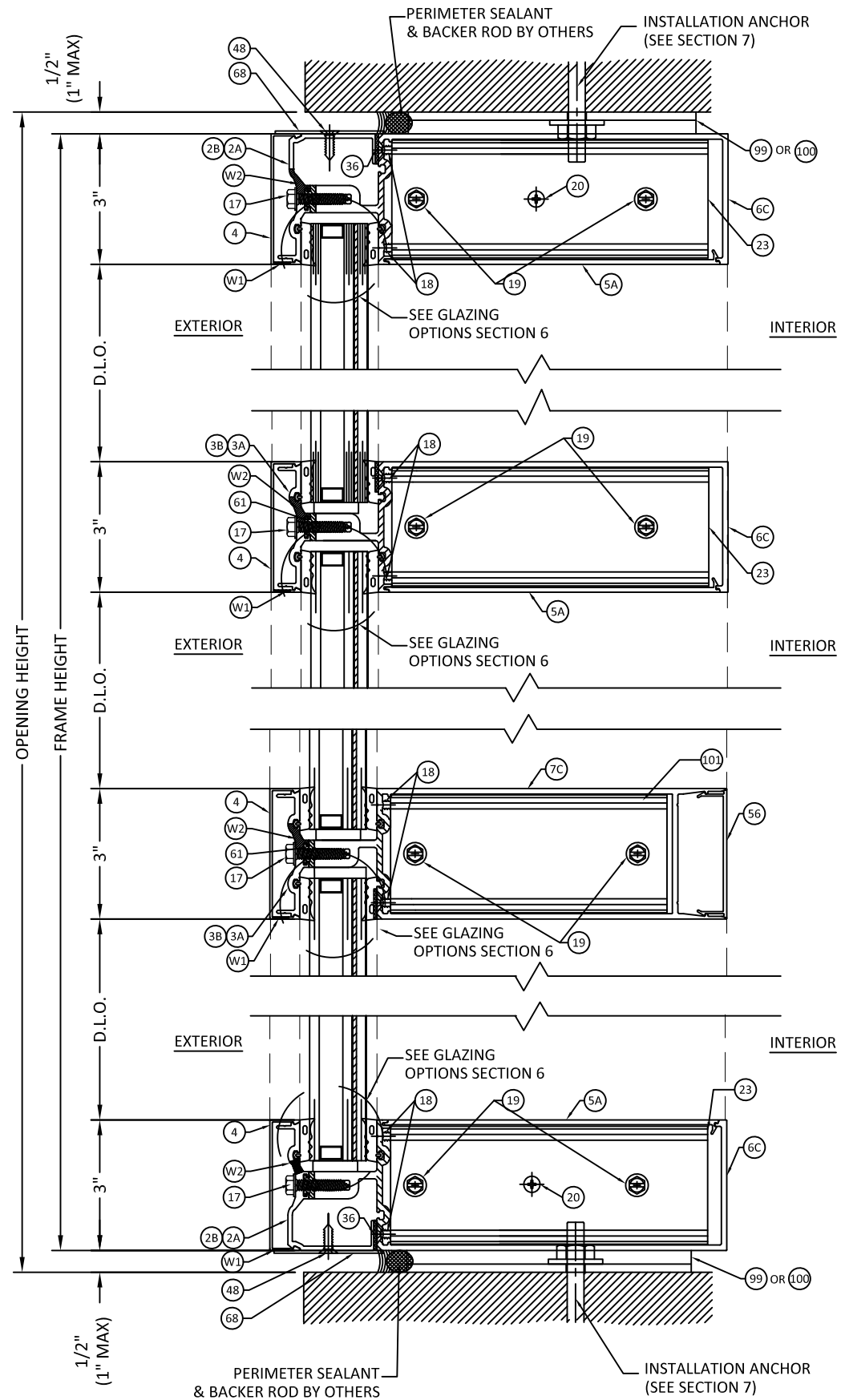
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HEAVY DUTY MULLIONS - VERTICAL SECTIONS



1
3.3 VERTICAL SECTION
HEAVY DUTY MULLION
MONOLITHIC GLASS

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



2
3.3 VERTICAL SECTION
HEAVY DUTY MULLION
INSULATING GLASS



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TITLE: **YHC - 300 OG**
CURTAIN WALL SYSTEM
 VERTICAL SECTION

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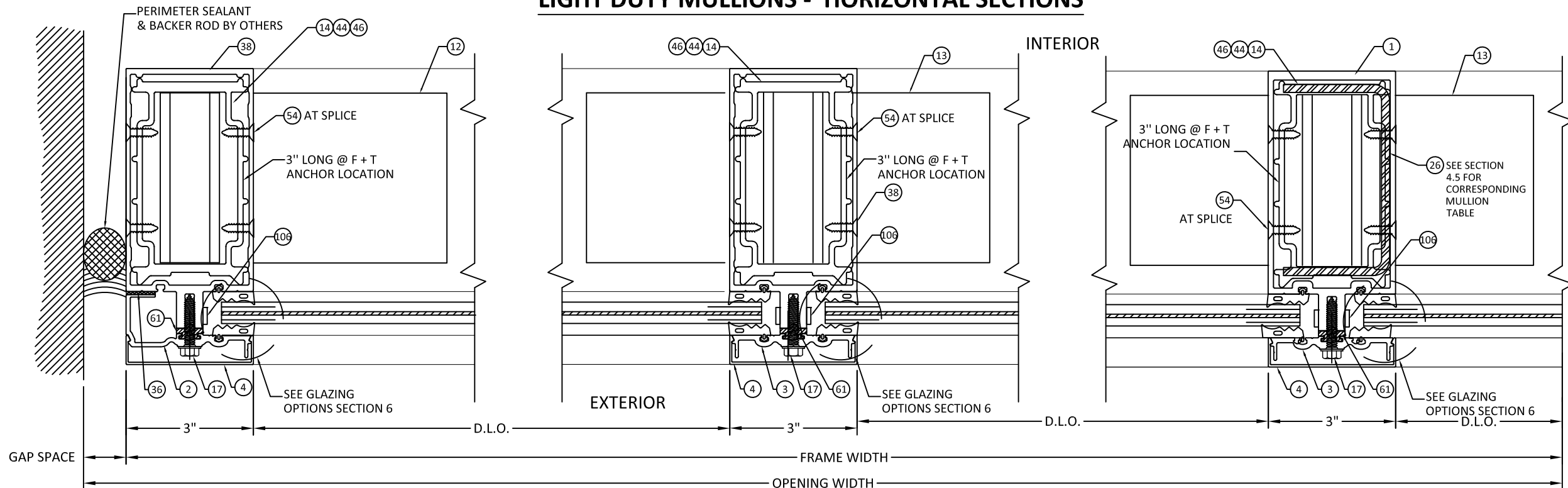


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SECTION:	3.3

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LIGHT DUTY MULLIONS - HORIZONTAL SECTIONS



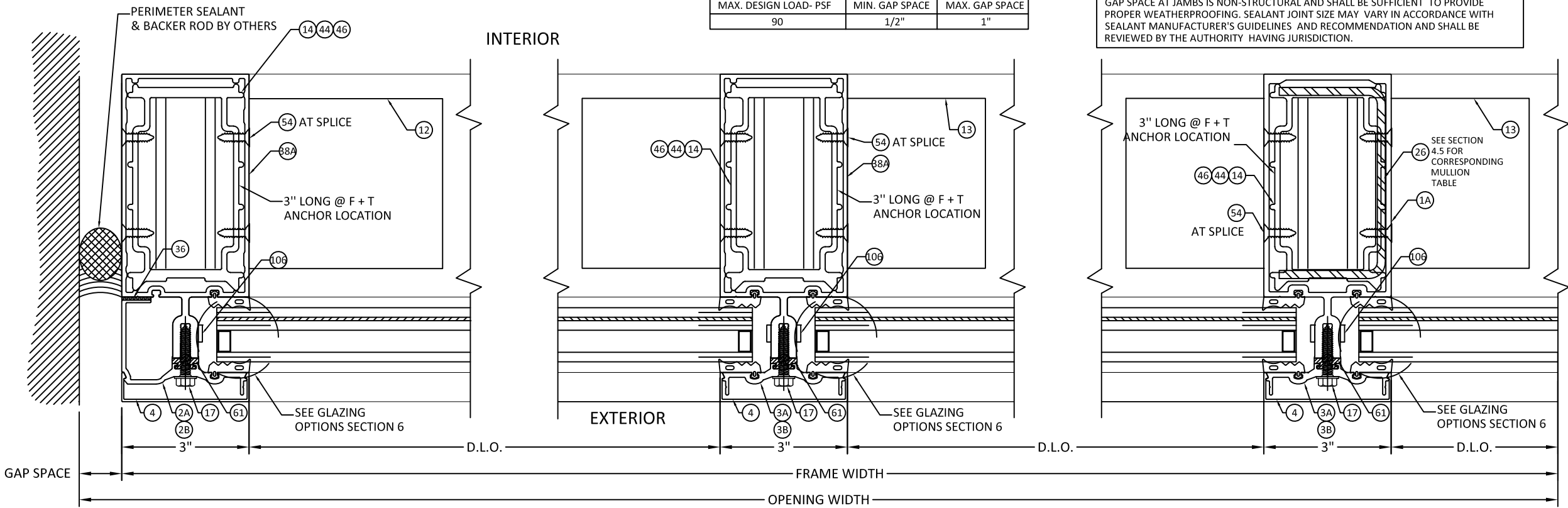
1 HORIZONTAL SECTION
4.0 LIGHT DUTY MULLION MONOLITHIC GLASS F-ANCHOR

2 HORIZONTAL SECTION
4.0 LIGHT DUTY MULLION MONOLITHIC GLASS T-ANCHOR

3 HORIZONTAL SECTION
4.0 LIGHT DUTY MULLION MONOLITHIC GLASS T-ANCHOR

MAX. DESIGN LOAD- PSF	MIN. GAP SPACE	MAX. GAP SPACE
90	1/2"	1"

NOTE: GAP SPACE 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 HORIZONTAL SECTION
4.0 LIGHT DUTY MULLION INSULATING GLASS F-ANCHOR

5 HORIZONTAL SECTION
4.0 LIGHT DUTY MULLION INSULATING GLASS T-ANCHOR

6 HORIZONTAL SECTION
4.0 LIGHT DUTY MULLION INSULATING GLASS T-ANCHOR



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TITLE: YHC - 300 OG CURTAIN WALL SYSTEM HORIZONTAL SECTIONS

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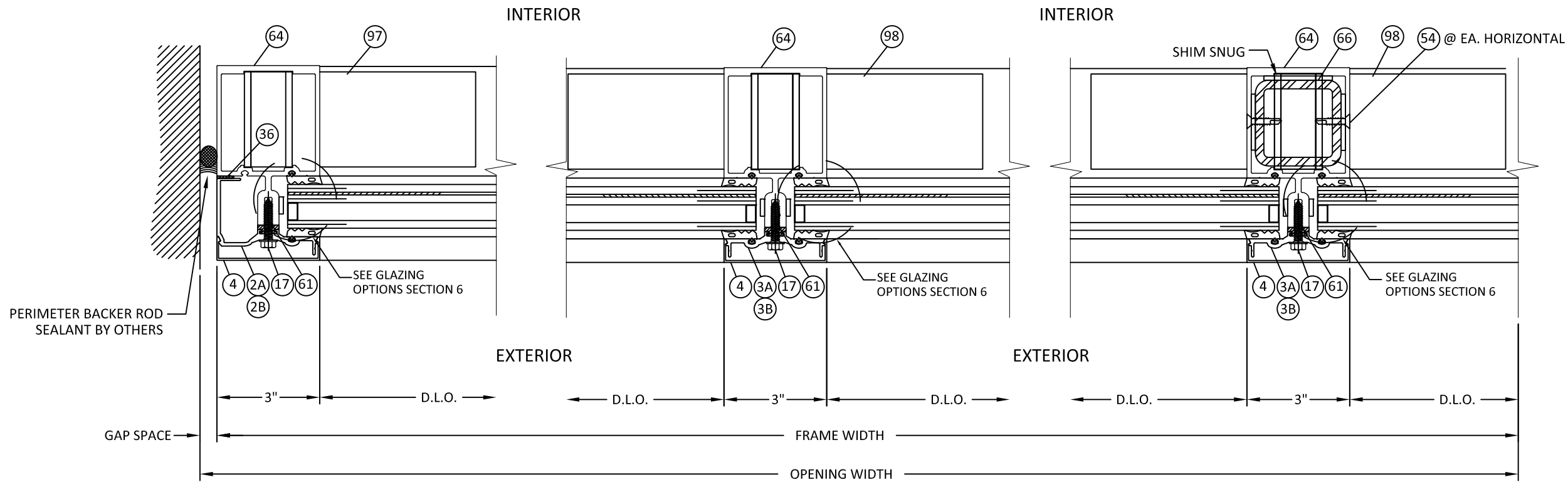


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SECTION: 4.0
[PAGE 7 OF 72]

SHALLOW MULLION VERTICAL SECTION



1 HORIZONTAL SECTION
4.1 YHC 300 OG - JAMB
 F - ANCHOR

2 HORIZONTAL SECTION
4.1 YHC 300 OG - VERTICAL MULLION
 NON-REINFORCED (M11)
 T - ANCHOR

3 HORIZONTAL SECTION
4.1 YHC 300 OG - VERTICAL MULLION
 STEEL REINFORCED (M12)
 T - ANCHOR

NOTE:
 GAP SPACE 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.



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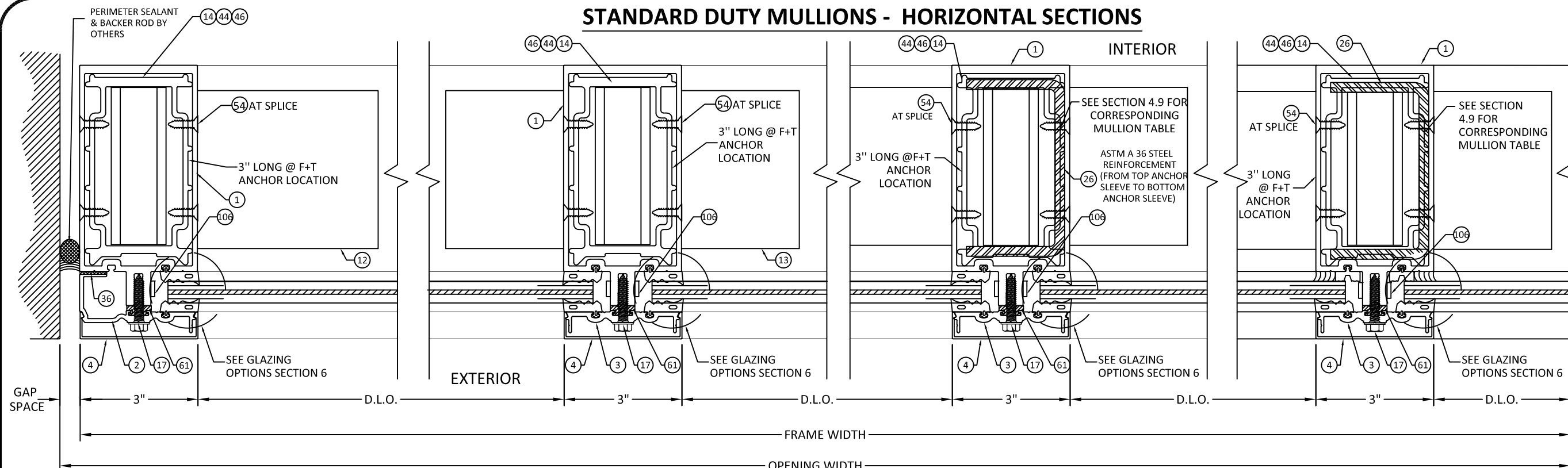


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STANDARD DUTY MULLIONS - HORIZONTAL SECTIONS



1 HORIZONTAL SECTION
4.2 STANDARD MULLION
 MONOLITHIC GLASS
 F - ANCHOR

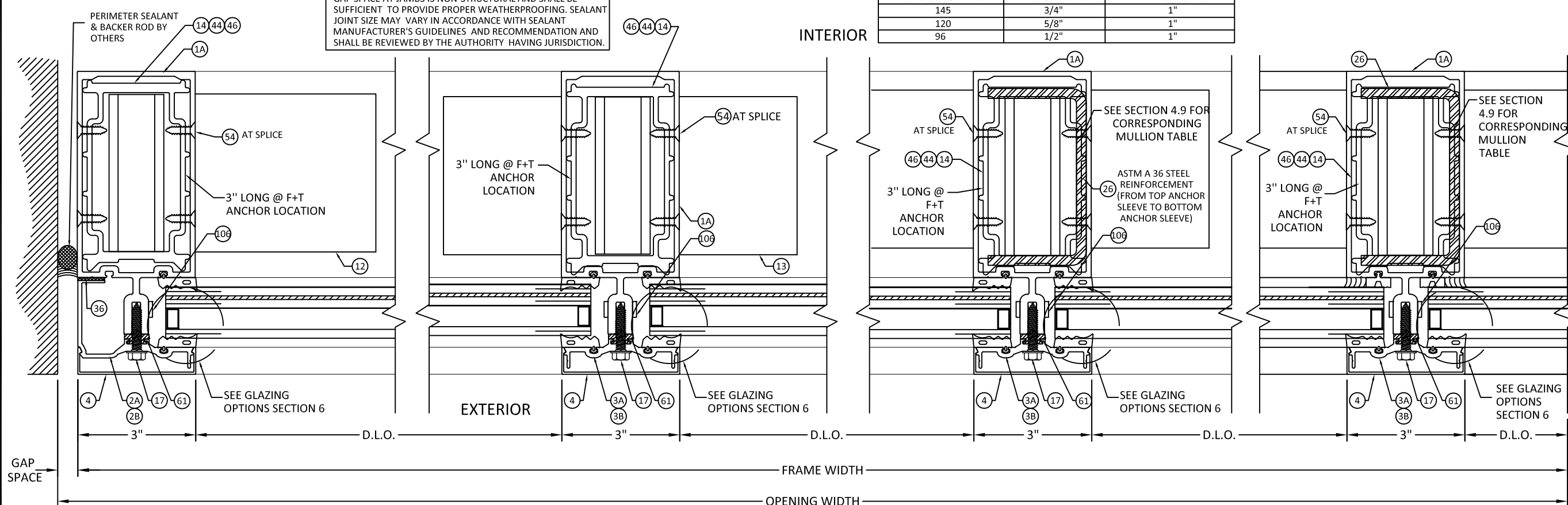
2 HORIZONTAL SECTION
4.2 STANDARD MULLION
 MONOLITHIC GLASS
 T - ANCHOR

3 HORIZONTAL SECTION
4.2 STANDARD MULLION (REINFORCED)
 MONOLITHIC GLASS
 T - ANCHOR

4 HORIZONTAL SECTION
4.2 STANDARD MULLION (REINFORCED)
 MONOLITHIC GLASS
 T - ANCHOR

NOTE:
 GAP SPACE 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.

MAX. DESIGN LOAD-PSF	MIN. GAP SPACE	MAX GAP SPACE
145	3/4"	1"
120	5/8"	1"
96	1/2"	1"



5 HORIZONTAL SECTION
4.2 STANDARD MULLION
 INSULATING GLASS
 F - ANCHOR

6 HORIZONTAL SECTION
4.2 STANDARD MULLION
 INSULATING GLASS
 T - ANCHOR

7 HORIZONTAL SECTION
4.2 STANDARD MULLION
 (REINFORCED) INSULATING GLASS
 T - ANCHOR

8 HORIZONTAL SECTION
4.2 STANDARD MULLION (REINFORCED)
 INSULATING GLASS
 T - ANCHOR

YKK AP Quality inspires™
YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
 HORIZONTAL SECTIONS
 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

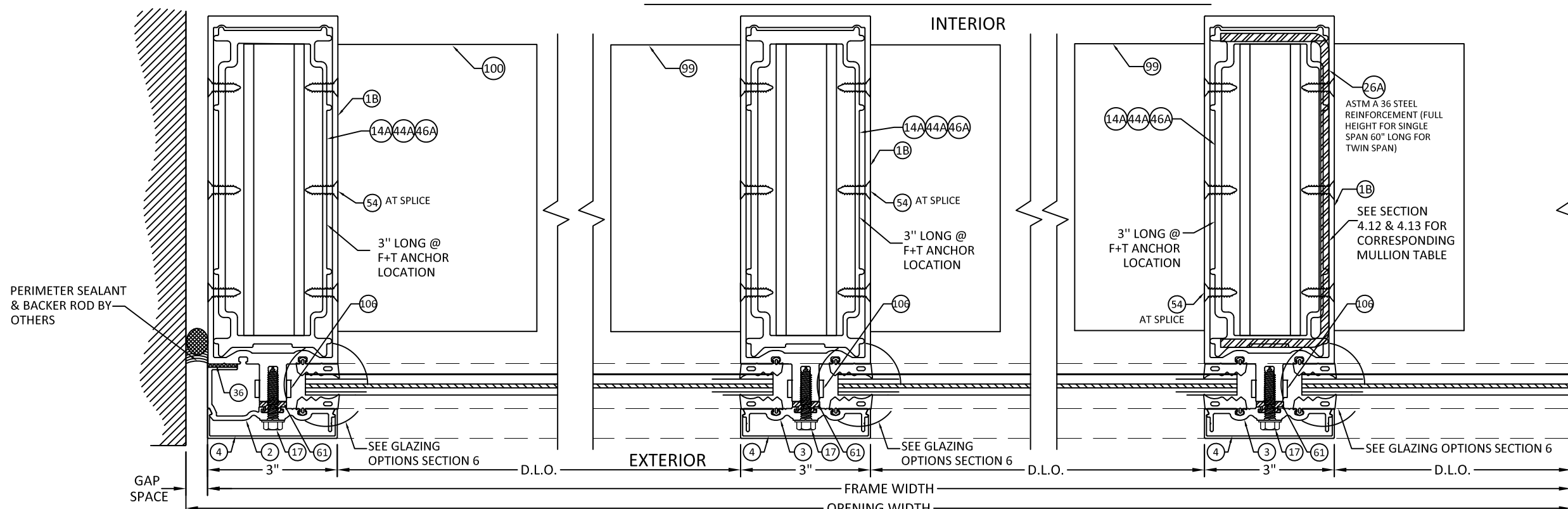


HERMES F. NORERO, P.E.
 TEXAS P.E. No. 118471
 BUILDING DROPS, INC
 398 E. DANIA BEACH BLVD. # 338
 DANIA BEACH, FL 33004
 TBPE FIRM No. 13734

DATE: **08.24.21**

DWG. BY: MS	CHK. BY: HFN
SCALE: NTS	
DWG. #: YKK280	
SECTION: 4.2	

HEAVY DUTY MULLIONS - HORIZONTAL SECTIONS



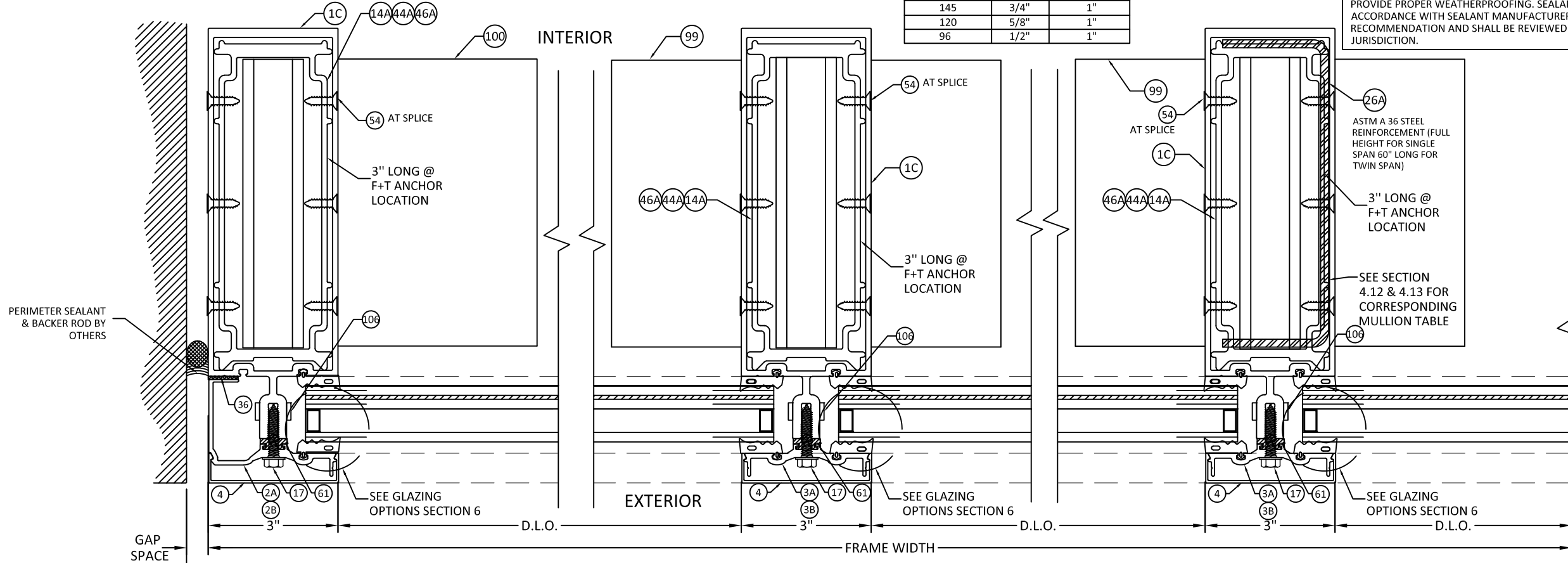
1 HORIZONTAL SECTION
4.3 HEAVY DUTY MULLION MONOLITHIC GLASS
 F - ANCHOR

2 HORIZONTAL SECTION
4.3 HEAVY DUTY MULLION MONOLITHIC GLASS
 T - ANCHOR

3 HORIZONTAL SECTION
4.3 HEAVY DUTY MULLION MONOLITHIC GLASS
 T - ANCHOR

MAX. DESIGN LOAD-PSF	MIN. GAP SPACE	MAX GAP SPACE
145	3/4"	1"
120	5/8"	1"
96	1/2"	1"

NOTE:
 GAP SPACE 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 HORIZONTAL SECTION
4.3 HEAVY DUTY MULLION INSULATING GLASS
 F - ANCHOR

5 HORIZONTAL SECTION
4.3 HEAVY DUTY MULLION INSULATING GLASS
 T - ANCHOR

6 HORIZONTAL SECTION
4.3 HEAVY DUTY MULLION INSULATING GLASS
 T - ANCHOR



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: **YHC - 300 OG**
CURTAIN WALL SYSTEM
 HORIZONTAL SECTIONS (CORNERS)
 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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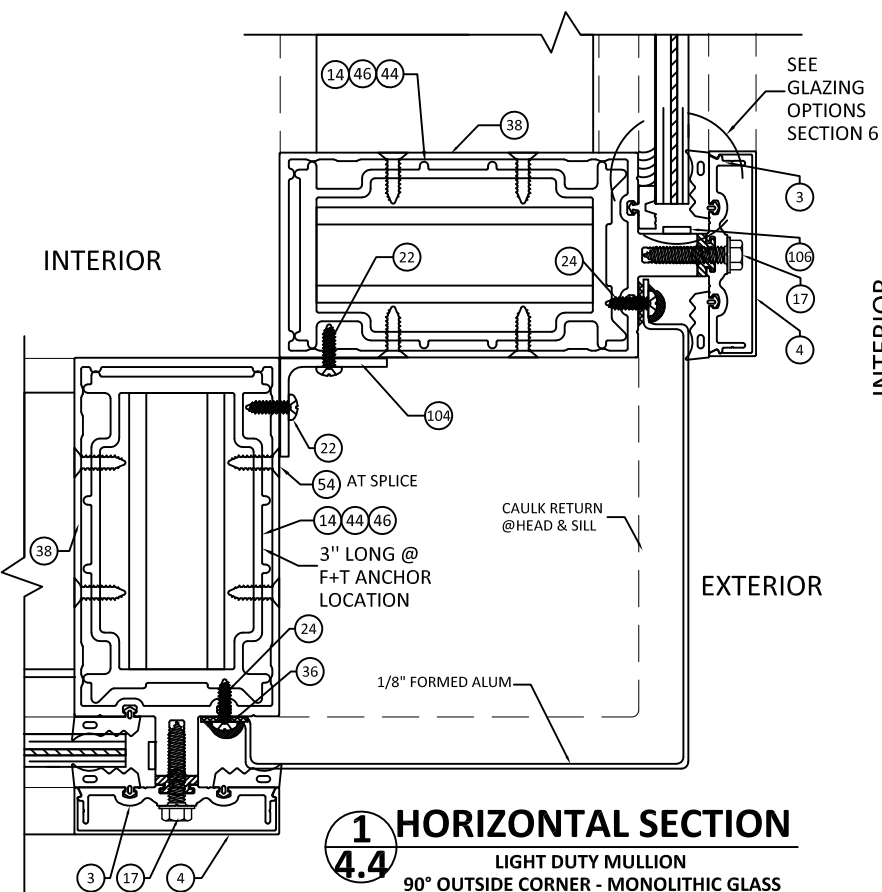
HERMES F. NORERO, P.E.
 TEXAS P.E. No 118471
 BUILDING DROPS, INC
 398 E. DANIA BEACH BLVD. # 338
 DANIA BEACH, FL 33004
 TBPE FIRM No. 13734

DATE: **08.24.21**
 DWG. BY: **MS** CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **YKK280**

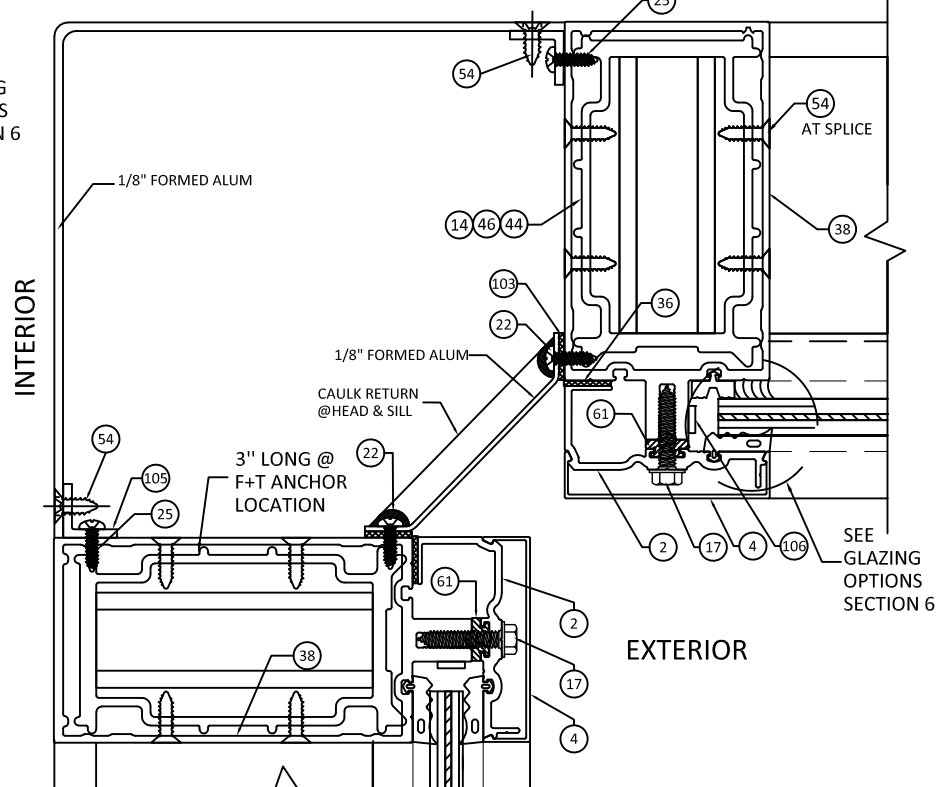
SECTION:
4.3
 [PAGE 10 OF 72]

s:\projects\ykk_ap_america, inc\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 1 thru 4 - cover, elev, vert. & horz. dtds.dwg
 10/30/2021 7:17 PM

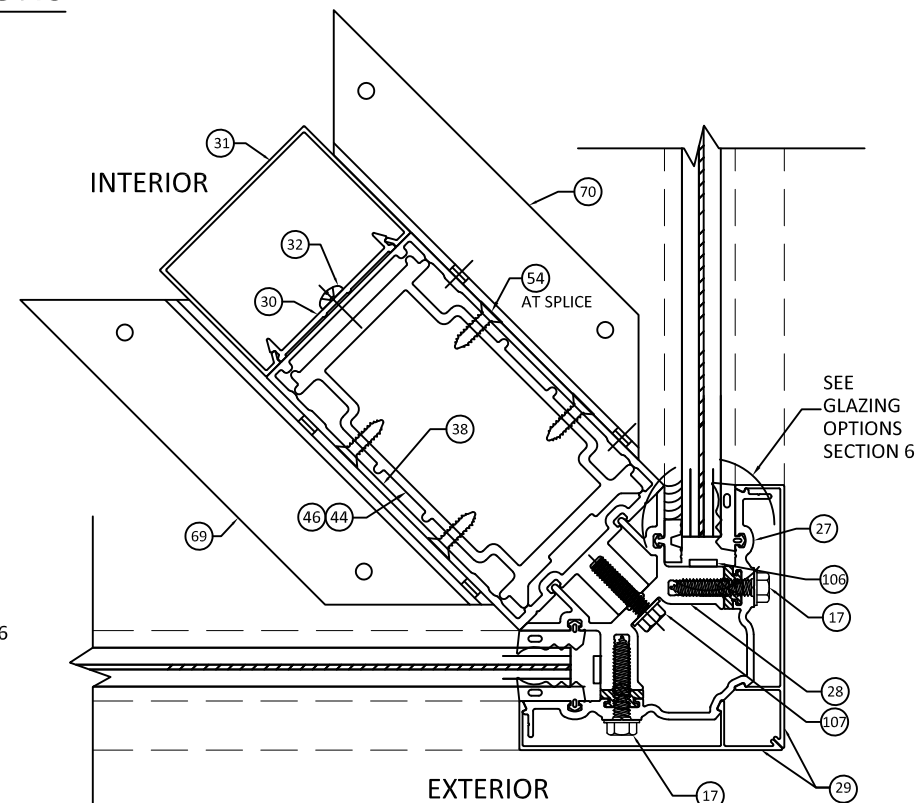
LIGHT DUTY CORNER MULLIONS - HORIZONTAL SECTIONS



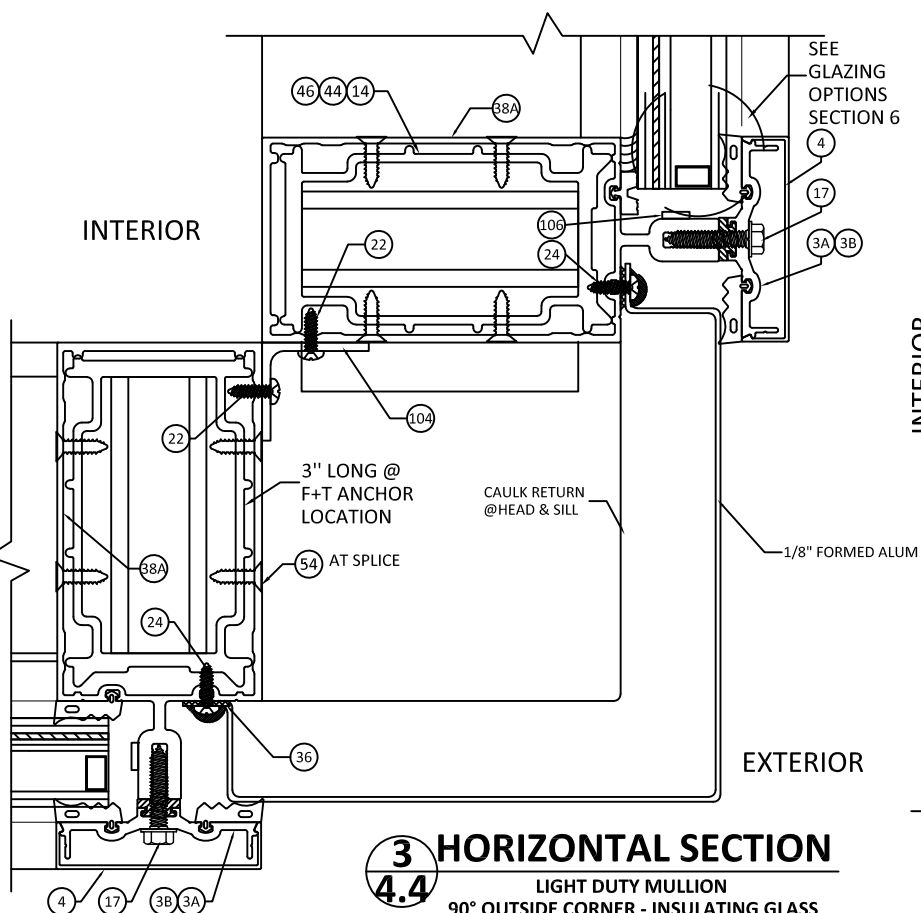
1 HORIZONTAL SECTION
4.4 LIGHT DUTY MULLION
 90° OUTSIDE CORNER - MONOLITHIC GLASS



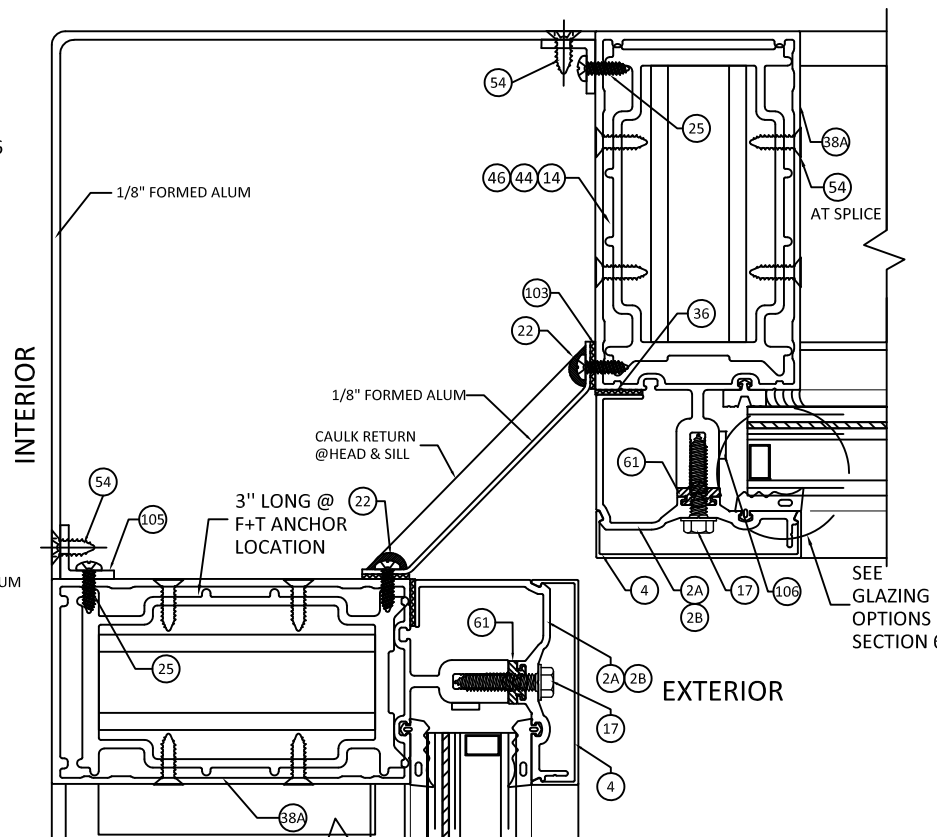
2 HORIZONTAL SECTION
4.4 LIGHT DUTY MULLION
 90° INSIDE CORNER - MONOLITHIC GLASS



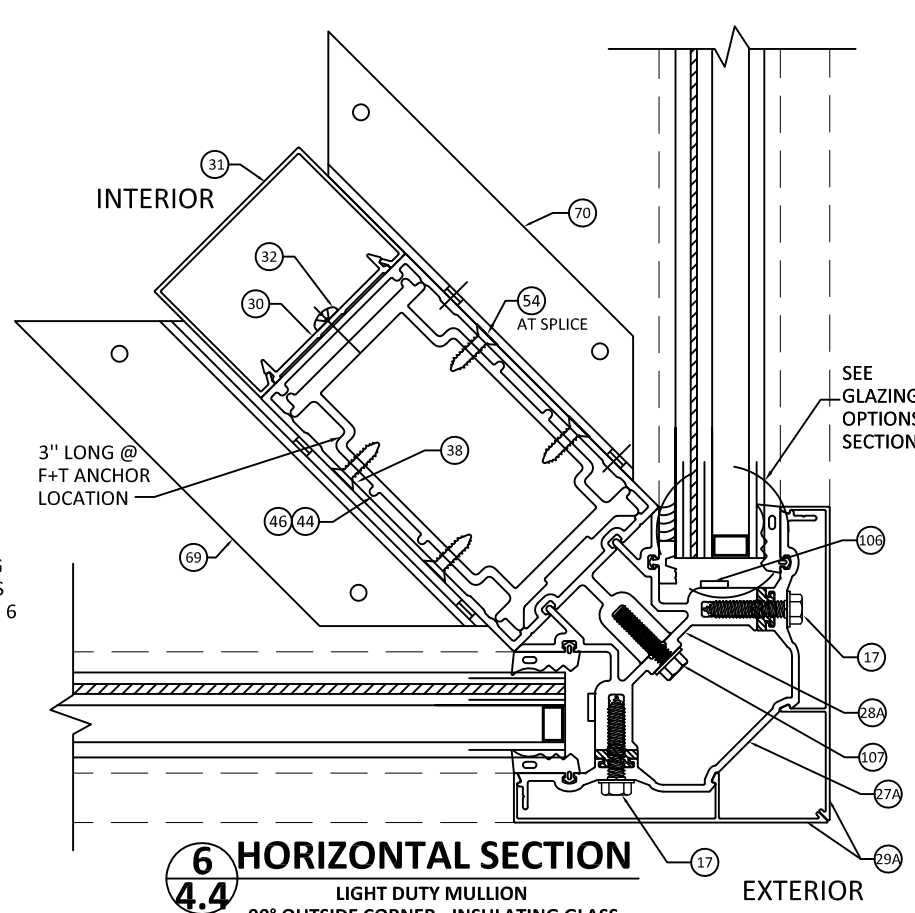
5 HORIZONTAL SECTION
4.4 LIGHT DUTY MULLION
 90° OUTSIDE CORNER - MONOLITHIC GLASS



3 HORIZONTAL SECTION
4.4 LIGHT DUTY MULLION
 90° OUTSIDE CORNER - INSULATING GLASS



4 HORIZONTAL SECTION
4.4 LIGHT DUTY MULLION
 90° INSIDE CORNER - INSULATING GLASS



6 HORIZONTAL SECTION
4.4 LIGHT DUTY MULLION
 90° OUTSIDE CORNER - INSULATING GLASS



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: **YHC - 300 OG**
CURTAIN WALL SYSTEM
 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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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:	08.24.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK280
SECTION:	4.4

10/30/2021 7:17 PM
 s:\projects\ykk_ap_america, inc.\tbl-21-0820 - tbl-submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 1 thru 4 - cover, elev. vert. & horz. cuts.dwg

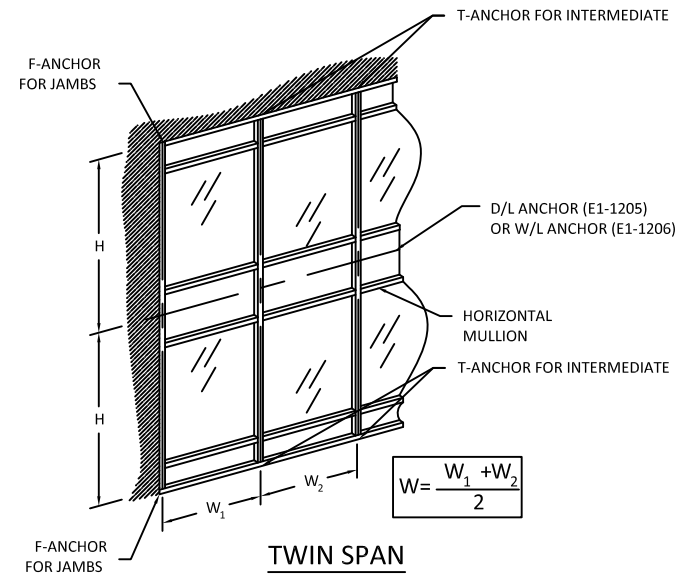
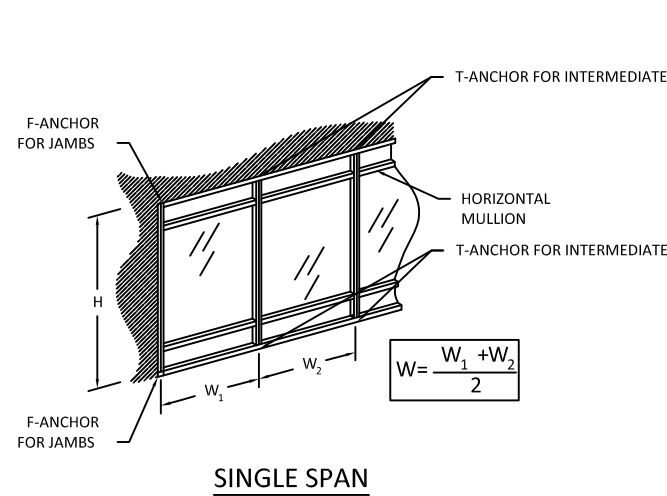
LIGHT DUTY MULLION CAPACITY CHARTS

NOTES:

- DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION CAPACITY PER 2018 IBC, IRC SPECIFICATIONS
- 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 FROM THE CHART.

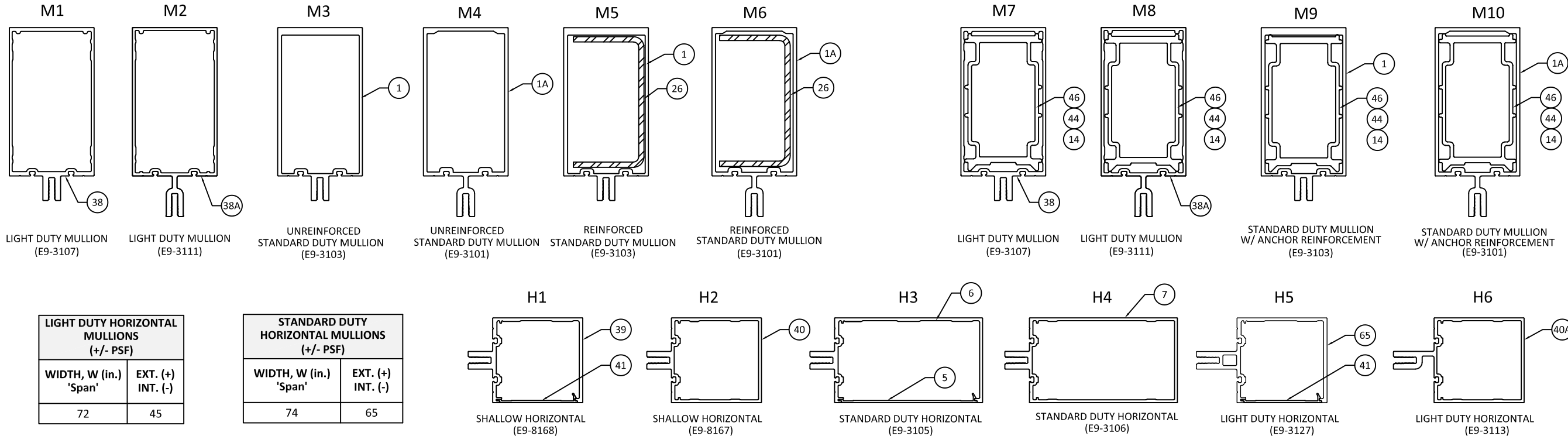
- CASE 1: SINGLE SPAN WITH UNREINFORCED MULLION
 CASE 2: SINGLE SPAN WITH REINFORCED MULLION FULL HEIGHT
 CASE 3: TWIN SPAN WITH REINFORCED MULLION AT INTERMEDIATE SUPPORT ONLY

REFER TO SECTION 4.5A FOR LIGHT DUTY MULLION CAPACITY TABLE.



SECTIONS @ F/T ANCHOR SPLICE/WIND LOAD/ DEAD LOAD LOCATION

MULLIONS



LIGHT DUTY HORIZONTAL MULLIONS (+/- PSF)	
WIDTH, W (in.) 'Span'	EXT. (+) INT. (-)
72	45

STANDARD DUTY HORIZONTAL MULLIONS (+/- PSF)	
WIDTH, W (in.) 'Span'	EXT. (+) INT. (-)
74	65

- 14 MULLION ANCHOR SLEEVE (STD) (3" LONG @ TOP & BOTTOM)
- 44 MULLION SPLICE SLEEVE (STD) (6" LONG @ SPLICE)
- 46 MULLION WL/DL REINF. SLEEVE (STD) (29" LONG @ ANCHOR)



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM

LIGHT DUTY MULLION LOAD CAPACITY 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:	08.24.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK280
SECTION:	4.5

LIGHT DUTY MULLION LOAD CAPACITY CHARTS



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM
 LIGHT DUTY MULLION LOAD CAPACITY CHARTS
 PREPARED BY: BUILDING DROPS, INC.
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 398 E. DANIA BEACH BLVD. # 338
 DANIA BEACH, FL 33004
 TBPE FIRM No. 13734

DATE: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

SECTION: **4.5A**

JAMB/MULLION LOAD CAPACITY (+/- PSF)							
NOMINAL DIMS.		CASE 1		CASE 2		CASE 3*	
		MULLION 'M1' & 'M2'	MULLION 'M3' & 'M4'	MULLION 'M5' & 'M6'	MULLION 'M7' & 'M8'	MULLION 'M9' & 'M10'	MULLION 'M9' & 'M10'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	78	55.0	65.0	65.0	55.0	65.0	65.0
30		55.0	65.0	65.0	55.0	65.0	65.0
36		55.0	65.0	65.0	55.0	65.0	65.0
42		55.0	65.0	65.0	55.0	65.0	65.0
48		55.0	65.0	65.0	55.0	65.0	65.0
54		55.0	65.0	65.0	55.0	65.0	65.0
60		55.0	65.0	65.0	55.0	65.0	65.0
66		55.0	65.0	65.0	55.0	65.0	65.0
72		55.0	65.0	65.0	55.0	65.0	65.0
24		84	55.0	65.0	65.0	55.0	65.0
30	55.0		65.0	65.0	55.0	65.0	65.0
36	55.0		65.0	65.0	55.0	65.0	65.0
42	55.0		65.0	65.0	55.0	65.0	65.0
48	55.0		65.0	65.0	55.0	65.0	65.0
54	55.0		65.0	65.0	55.0	65.0	65.0
60	55.0		65.0	65.0	55.0	65.0	65.0
66	55.0		65.0	65.0	55.0	65.0	65.0
72	55.0		65.0	65.0	55.0	65.0	65.0
24	90		55.0	65.0	65.0	55.0	65.0
30		55.0	65.0	65.0	55.0	65.0	65.0
36		55.0	65.0	65.0	55.0	65.0	65.0
42		55.0	65.0	65.0	55.0	65.0	65.0
48		55.0	65.0	65.0	55.0	65.0	65.0
54		55.0	65.0	65.0	55.0	65.0	65.0
60		55.0	65.0	65.0	55.0	65.0	65.0
66		55.0	65.0	65.0	55.0	65.0	65.0
72		55.0	65.0	65.0	55.0	65.0	65.0
24		96	55.0	65.0	65.0	55.0	65.0
30	55.0		65.0	65.0	55.0	65.0	65.0
36	55.0		65.0	65.0	55.0	65.0	65.0
42	55.0		65.0	65.0	55.0	65.0	65.0
48	55.0		65.0	65.0	55.0	65.0	65.0
54	55.0		65.0	65.0	55.0	65.0	65.0
60	55.0		65.0	65.0	55.0	65.0	65.0
66	55.0		65.0	65.0	55.0	65.0	65.0
72	55.0		65.0	65.0	55.0	65.0	65.0
24	102		55.0	65.0	65.0	55.0	65.0
30		55.0	65.0	65.0	55.0	65.0	65.0
36		55.0	65.0	65.0	55.0	65.0	65.0
42		55.0	65.0	65.0	55.0	65.0	65.0
48		55.0	65.0	65.0	55.0	65.0	65.0
54		55.0	65.0	65.0	55.0	65.0	65.0
60		55.0	65.0	65.0	55.0	65.0	65.0
66		55.0	65.0	65.0	55.0	65.0	65.0
72		55.0	65.0	65.0	55.0	65.0	65.0
24		108	55.0	65.0	65.0	55.0	65.0
30	55.0		65.0	65.0	55.0	65.0	65.0
36	55.0		65.0	65.0	55.0	65.0	65.0
42	55.0		65.0	65.0	55.0	65.0	65.0
48	55.0		65.0	65.0	55.0	65.0	65.0
54	55.0		65.0	65.0	55.0	65.0	65.0
60	55.0		65.0	65.0	55.0	65.0	65.0
66	55.0		65.0	65.0	55.0	65.0	65.0
72	55.0		65.0	65.0	55.0	65.0	65.0

JAMB/MULLION LOAD CAPACITY (+/- PSF)							
NOMINAL DIMS.		CASE 1		CASE 2		CASE 3*	
		MULLION 'M1' & 'M2'	MULLION 'M3' & 'M4'	MULLION 'M5' & 'M6'	MULLION 'M7' & 'M8'	MULLION 'M9' & 'M10'	MULLION 'M9' & 'M10'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	114	55.0	65.0	65.0	55.0	65.0	65.0
30		55.0	65.0	65.0	55.0	65.0	65.0
36		55.0	65.0	65.0	55.0	65.0	65.0
42		55.0	65.0	65.0	55.0	65.0	65.0
48		55.0	65.0	65.0	55.0	65.0	65.0
54		55.0	65.0	65.0	55.0	65.0	65.0
60		55.0	65.0	65.0	55.0	65.0	65.0
66		55.0	65.0	65.0	55.0	65.0	65.0
72		55.0	65.0	65.0	55.0	65.0	65.0
24		120	55.0	65.0	65.0	55.0	65.0
30	55.0		65.0	65.0	55.0	65.0	65.0
36	55.0		65.0	65.0	55.0	65.0	65.0
42	55.0		65.0	65.0	55.0	65.0	65.0
48	55.0		65.0	65.0	55.0	65.0	65.0
54	55.0		65.0	65.0	55.0	65.0	65.0
60	55.0		65.0	65.0	55.0	65.0	65.0
66	55.0		65.0	65.0	55.0	65.0	65.0
72	55.0		65.0	65.0	55.0	65.0	65.0
24	126		55.0	65.0	65.0	55.0	65.0
30		55.0	65.0	65.0	55.0	65.0	65.0
36		55.0	65.0	65.0	55.0	65.0	65.0
42		55.0	65.0	65.0	55.0	65.0	65.0
48		55.0	65.0	65.0	55.0	65.0	65.0
54		55.0	65.0	65.0	55.0	65.0	65.0
60		55.0	65.0	65.0	55.0	65.0	65.0
66		52.1	65.0	65.0	55.0	65.0	65.0
72		47.8	65.0	65.0	54.6	65.0	65.0
24		132	55.0	65.0	65.0	55.0	65.0
30	55.0		65.0	65.0	55.0	65.0	65.0
36	55.0		65.0	65.0	55.0	65.0	65.0
42	55.0		65.0	65.0	55.0	65.0	65.0
48	55.0		65.0	65.0	55.0	65.0	65.0
54	55.0		65.0	65.0	55.0	65.0	65.0
60	55.0		65.0	65.0	55.0	65.0	65.0
66	49.9		65.0	65.0	55.0	65.0	65.0
72	45.3		65.0	65.0	55.0	65.0	65.0
24	138		55.0	65.0	65.0	55.0	65.0
30		55.0	65.0	65.0	55.0	65.0	65.0
36		55.0	65.0	65.0	55.0	65.0	65.0
42		55.0	65.0	65.0	55.0	65.0	65.0
48		55.0	65.0	65.0	55.0	65.0	65.0
54		55.0	65.0	65.0	55.0	65.0	65.0
60		55.0	65.0	65.0	55.0	65.0	65.0
66		49.9	65.0	65.0	55.0	65.0	65.0
72		41.6	65.0	65.0	52.1	65.0	65.0
24		144	55.0	65.0	65.0	55.0	65.0
30	55.0		65.0	65.0	55.0	65.0	65.0
36	55.0		65.0	65.0	55.0	65.0	65.0
42	55.0		65.0	65.0	55.0	65.0	65.0
48	54.6		65.0	65.0	55.0	65.0	65.0
54	48.5		65.0	65.0	55.0	65.0	65.0
60	43.6		65.0	65.0	55.0	65.0	65.0
66	39.7		65.0	65.0	54.3	65.0	65.0
72	36.4		65.0	65.0	49.8	65.0	65.0
24	150		55.0	65.0	65.0	55.0	65.0
30		55.0	65.0	65.0	55.0	65.0	65.0
36		55.0	65.0	65.0	55.0	65.0	65.0
42		55.0	65.0	65.0	55.0	65.0	65.0
48		55.0	65.0	65.0	55.0	65.0	65.0
54		55.0	65.0	65.0	55.0	65.0	65.0
60		55.0	65.0	65.0	55.0	65.0	65.0
66		55.0	65.0	65.0	55.0	65.0	65.0
72		55.0	65.0	65.0	55.0	65.0	65.0
24		156	55.0	65.0	65.0	55.0	65.0
30	55.0		65.0	65.0	55.0	65.0	65.0
36	55.0		65.0	65.0	55.0	65.0	65.0
42	55.0		65.0	65.0	55.0	65.0	65.0
48	48.6		65.0	65.0	55.0	65.0	65.0
54	42.5		65.0	65.0	55.0	65.0	65.0
60	37.8		65.0	65.0	55.0	65.0	65.0
66	34.0		65.0	65.0	55.0	65.0	65.0
72	30.9		65.0	65.0	50.0	65.0	65.0
24	162		55.0	65.0	65.0	55.0	65.0
30		55.0	65.0	65.0	55.0	65.0	65.0
36		55.0	65.0	65.0	55.0	65.0	65.0
42		55.0	65.0	65.0	55.0	65.0	65.0
48		43.2	65.0	65.0	55.0	65.0	65.0
54		37.8	65.0	65.0	55.0	65.0	65.0
60		33.6	65.0	65.0	55.0	65.0	65.0
66		30.2	65.0	65.0	50.9	65.0	65.0
72		27.5	65.0	65.0	46.2	65.0	65.0
24		168	55.0	65.0	65.0	55.0	65.0
30	55.0		65.0	65.0	55.0	65.0	65.0
36	55.0		65.0	65.0	55.0	65.0	65.0
42	55.0		65.0	65.0	55.0	65.0	65.0
48	38.5		65.0	65.0	55.0	65.0	65.0
54	33.7		65.0	65.0	55.0	65.0	65.0
60	30.0		65.0	65.0	52.4	65.0	65.0
66	27.0		65.0	65.0	47.2	65.0	65.0
72	24.5		65.0	65.0	42.9	65.0	65.0
24	174		55.0	65.0	65.0	55.0	65.0
30		55.0	65.0	65.0	55.0	65.0	65.0
36		55.0	65.0	65.0	55.0	65.0	65.0
42		55.0	65.0	65.0	55.0	65.0	65.0
48		41.3	65.0	65.0	55.0	65.0	65.0
54		35.4	65.0	65.0	55.0	65.0	65.0
60		30.9	65.0	65.0	54.8	65.0	65.0
66		27.5	65.0	65.0	48.7	65.0	65.0
72		24.8	65.0	65.0	43.8	65.0	65.0
24		180	55.0	65.0	65.0	55.0	65.0
30	55.0		65.0	65.0	55.0	65.0	65.0
36	55.0		65.0	65.0	55.0	65.0	65.0
42							

LIGHT DUTY MULLION LOAD CAPACITY CHARTS

JAMB/MULLION LOAD CAPACITY (+/- PSF)						
NOMINAL DIMS.		CASE 1		CASE 2	CASE 3*	
		MULLION 'M1' & 'M2'	MULLION 'M3' & 'M4'	MULLION 'M5' & 'M6'	MULLION 'M7' & 'M8'	MULLION 'M9' & 'M10'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	186	50.5	65.0	65.0	55.0	65.0
30		40.4	65.0	65.0	55.0	65.0
36		33.7	65.0	65.0	55.0	65.0
42		28.8	65.0	65.0	51.1	65.0
48		25.2	65.0	65.0	44.7	65.0
54		22.4	65.0	65.0	39.7	65.0
60		20.2	59.5	59.5	35.8	65.0
66		18.4	54.1	54.1	32.5	60.7
72	16.8	49.6	49.6	29.8	55.7	
24	192	47.4	65.0	65.0	55.0	65.0
30		37.9	65.0	65.0	55.0	65.0
36		31.6	65.0	65.0	55.0	65.0
42		27.1	65.0	65.0	48.0	65.0
48		23.7	65.0	65.0	42.0	65.0
54		21.1	62.1	62.1	37.3	65.0
60		18.9	55.8	55.8	33.6	62.7
66		17.2	50.8	50.8	30.5	57.0
72	15.8	46.5	46.5	28.0	52.3	
24	198	44.5	65.0	65.0	55.0	65.0
30		35.6	65.0	65.0	55.0	65.0
36		29.7	65.0	65.0	52.6	65.0
42		25.5	65.0	65.0	45.1	65.0
48		22.3	65.0	65.0	39.5	65.0
54		19.8	58.3	58.3	35.1	65.0
60		17.8	52.5	52.5	31.6	59.0
66		16.2	47.7	47.7	28.7	53.6
72	14.8	43.8	43.8	26.3	49.1	
24	204	42.0	65.0	65.0	55.0	65.0
30		33.6	65.0	65.0	55.0	65.0
36		28.0	65.0	65.0	49.6	65.0
42		24.0	65.0	65.0	42.5	65.0
48		21.0	61.8	61.8	37.2	65.0
54		18.7	55.0	55.0	33.0	61.7
60		16.8	49.5	49.5	29.7	55.6
66		15.3	45.0	45.0	27.0	50.5
72	14.0	41.2	41.2	24.8	46.3	
24	210	39.6	65.0	65.0	55.0	65.0
30		31.7	65.0	65.0	55.0	65.0
36		26.4	65.0	65.0	46.8	65.0
42		22.6	65.0	65.0	40.1	65.0
48		19.8	58.4	58.4	35.1	65.0
54		17.6	51.9	51.9	31.2	58.2
60		15.8	46.7	46.7	28.1	52.4
66		14.4	42.4	42.4	25.5	47.7
72	13.2	38.9	38.9	23.4	43.7	
24	216	37.4	65.0	65.0	55.0	65.0
30		29.9	65.0	65.0	53.0	65.0
36		25.0	65.0	65.0	44.2	65.0
42		21.4	63.0	63.0	37.9	65.0
48		18.7	55.2	55.2	33.2	61.9
54		16.6	49.0	49.0	29.5	55.1
60		15.0	44.1	44.1	26.5	49.6
66		13.6	40.1	40.1	24.1	45.0
72	12.5	36.8	36.8	22.1	41.3	

JAMB/MULLION LOAD CAPACITY (+/- PSF)						
NOMINAL DIMS.		CASE 1		CASE 2	CASE 3*	
		MULLION 'M1' & 'M2'	MULLION 'M3' & 'M4'	MULLION 'M5' & 'M6'	MULLION 'M7' & 'M8'	MULLION 'M9' & 'M10'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
24	222	35.4	65.0	65.0	55.0	65.0
30		28.3	65.0	65.0	50.2	65.0
36		23.6	65.0	65.0	41.8	65.0
42		20.2	59.7	59.7	35.9	65.0
48		17.7	52.2	52.2	31.4	58.6
54		15.7	46.4	46.4	27.9	52.1
60		14.2	41.8	41.8	25.1	46.9
66		12.9	38.0	38.0	22.8	42.6
72	11.8	34.8	34.8	20.9	39.1	
24	228	33.6	65.0	65.0	55.0	65.0
30		26.9	65.0	65.0	47.6	65.0
36		22.4	65.0	65.0	39.7	65.0
42		19.2	56.6	56.6	34.0	63.5
48		16.8	49.5	49.5	29.8	55.6
54		14.9	44.0	44.0	26.5	49.4
60		13.4	39.6	39.6	23.8	44.5
66		12.2	36.0	36.0	21.6	40.4
72	11.2	33.0	33.0	19.8	37.1	
24	234	31.9	65.0	65.0	55.0	65.0
30		25.5	65.0	65.0	45.2	65.0
36		21.3	62.7	62.7	37.7	65.0
42		18.2	53.7	53.7	32.3	60.3
48		15.9	47.0	47.0	28.3	52.8
54		14.2	41.8	41.8	25.1	46.9
60		12.8	37.6	37.6	22.6	42.2
66		11.6	34.2	34.2	20.5	38.4
72	10.6	31.3	31.3	18.8	35.2	
24	240	30.3	65.0	65.0	53.7	65.0
30		24.3	65.0	65.0	43.0	65.0
36		20.2	59.6	59.6	35.8	65.0
42		17.3	51.1	51.1	30.7	57.3
48		15.2	44.7	44.7	26.9	50.2
54		13.5	39.7	39.7	23.9	44.6
60		12.1	35.7	35.7	21.5	40.1
66		11.0	32.5	32.5	19.5	36.5
72	10.1	29.8	29.8	17.9	33.4	
24	246	28.9	65.0	65.0	51.1	65.0
30		23.1	65.0	65.0	40.9	65.0
36		19.2	55.3	55.3	34.1	62.1
42		16.5	47.4	47.4	29.2	53.2
48		14.4	41.5	41.5	25.6	46.6
54		12.8	36.9	36.9	22.7	41.4
60		11.5	33.2	33.2	20.4	37.3
66		10.5	30.2	30.2	18.6	33.9
72	9.6	27.7	27.7	17.0	31.1	

*SLEEVE REINFORCEMENT @ WL + DL, 29" LONG

REFER TO SECTION 4.5 FOR
LIGHT DUTY MULLION DETAILS.



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM

LIGHT DUTY MULLION LOAD CAPACITY CHARTS

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: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

SECTION:
4.5B

[PAGE 14 OF 72]

s:\projects\ykk.ap.america, inc.\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 1 thru 4 - cover, elev. vert. & horz. dtls.dwg 10/30/2021 7:18 PM

SHALLOW CORNER MULLIONS - HORIZONTAL SECTIONS

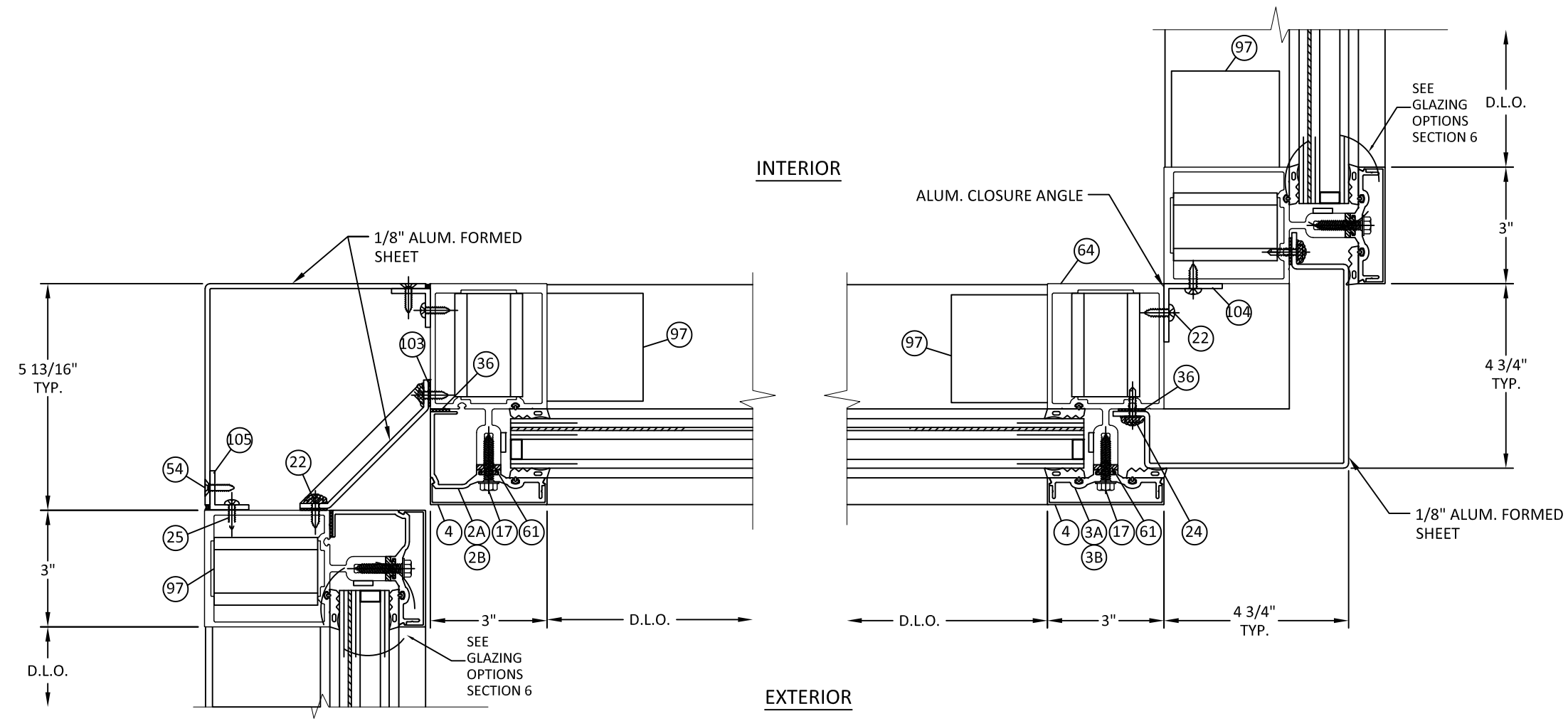


YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG
 CURTAIN WALL SYSTEM

HORIZONTAL SECTIONS (CORNERS)

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



1
4.6 SHALLOW MULLION
 90° INSIDE CORNER INSULATED GLASS
 F - ANCHOR

2
4.6 SHALLOW MULLION
 90° OUTSIDE CORNER INSULATED GLASS
 F - ANCHOR

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:	08.24.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK280
SECTION:	4.6

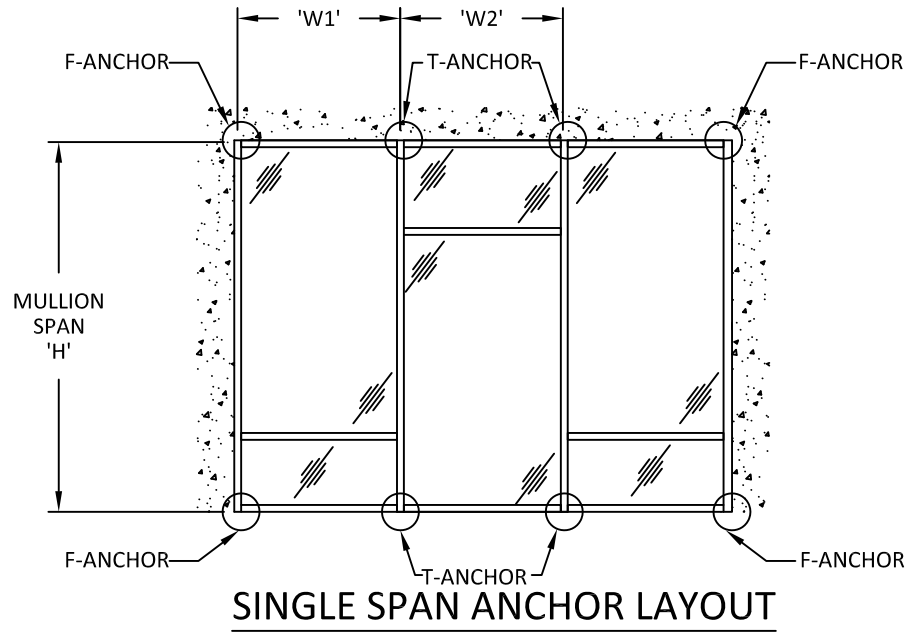
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 s:\projects\ykk_ap_america, inc.\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 1 thru 4 - cover, elev. vert. & horz. titls.dwg

SINGLE SPAN VERTICAL SHALLOW MULLION CAPACITIES

JAMB/MULLION LOAD CAPACITY (+/- PSF)			
NOMINAL DIMS.		M11	M12
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	90	55.0	55.0
42		55.0	55.0
48		55.0	55.0
54		55.0	55.0
60		55.0	55.0
66		55.0	55.0
72	96	55.0	55.0
36		55.0	55.0
42		55.0	55.0
48		55.0	55.0
54		55.0	55.0
60		55.0	55.0
66	99	55.0	55.0
72		51.6	55.0
36		55.0	55.0
42		55.0	55.0
48		55.0	55.0
54		55.0	55.0
60	102	55.0	55.0
66		51.3	55.0
72		47.0	55.0
36		55.0	55.0
42		55.0	55.0
48		55.0	55.0
54	108	55.0	55.0
60		51.6	55.0
66		46.9	55.0
72		43.0	55.0
36		55.0	55.0
42		55.0	55.0
48	115	54.3	55.0
54		48.3	55.0
60		43.5	55.0
66		39.5	55.0
72		36.2	55.0
36		120	55.0
42	51.4		55.0
48	45.0		55.0
54	40.0		55.0
60	36.0		55.0
66	32.7		55.0
72	30.0	53.3	
36	124	52.8	55.0
42		45.3	55.0
48		39.6	55.0
54		35.2	55.0
60		31.7	55.0
66		28.8	53.4
72	26.4	48.9	

JAMB/MULLION LOAD CAPACITY (+/- PSF)			
NOMINAL DIMS.		M11	M12
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	124	47.9	55.0
42		41.0	55.0
48		35.9	55.0
54		31.9	55.0
60		28.7	55.0
66		26.1	50.0
72	23.9	45.8	
36	126	45.6	55.0
42		39.1	55.0
48		34.2	55.0
54		30.4	55.0
60		27.4	52.4
66		24.9	47.7
72	22.8	43.7	
36	132	39.7	55.0
42		34.0	55.0
48		29.8	55.0
54		26.5	50.7
60		23.8	45.6
66		21.6	41.4
72	19.8	38.0	
36	138	34.7	55.0
42		29.8	55.0
48		26.0	49.9
54		23.1	44.3
60		20.8	39.9
66		18.9	36.3
72	17.4	33.3	
36	144	30.6	55.0
42		26.2	50.2
48		22.9	43.9
54		20.4	39.0
60		18.3	35.1
66		16.7	31.9
72	15.3	29.3	
36	150	27.0	51.8
42		23.2	44.4
48		20.3	38.8
54		18.0	34.5
60		16.2	31.1
66		14.7	28.2
72	13.5	25.9	

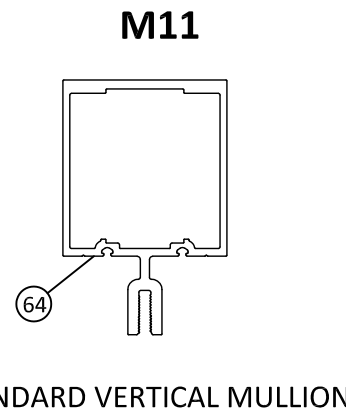
HORIZONTAL MULLIONS (+/- PSF)		
MULL TYPE	MAX. WIDTH, W (in.), 'Span'	EXT. (+) INT. (-)
H9	72	55
H10	66	55



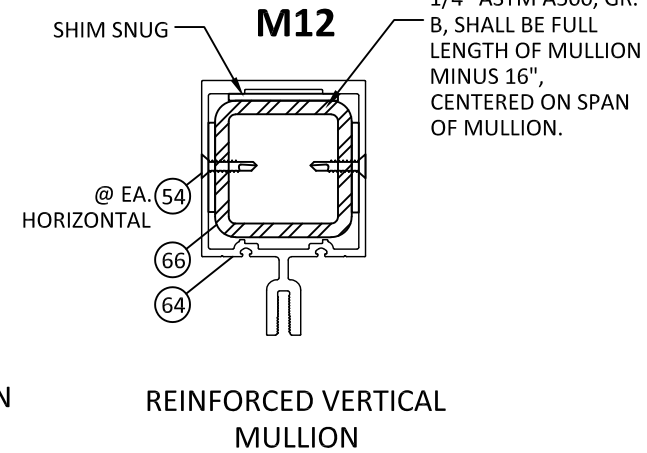
VERTICAL MEMBER SINGLE SPAN NOTES:

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

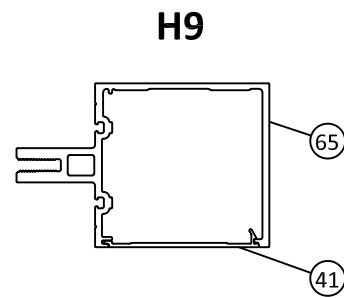
REINFORCING LENGTH = FRAME HEIGHT - 12 IN.



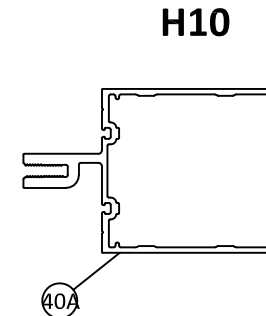
STANDARD VERTICAL MULLION



REINFORCED VERTICAL MULLION



HEAD/SILL WITH DOUBLE WEB



LIGHT DUTY HORIZONTAL



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG
CURTAIN WALL SYSTEM
MULLION CAPACITY CHARTS

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:	08.24.21	
DWG. BY:	MS	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	YKK280	

SECTION:
4.7
[PAGE 16 OF 72]

10/30/2021 7:18 PM s:\projects\ykk_ap_america, inc.\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 1 thru 4 - cover, elev, vert. & horz. dtls.dwg

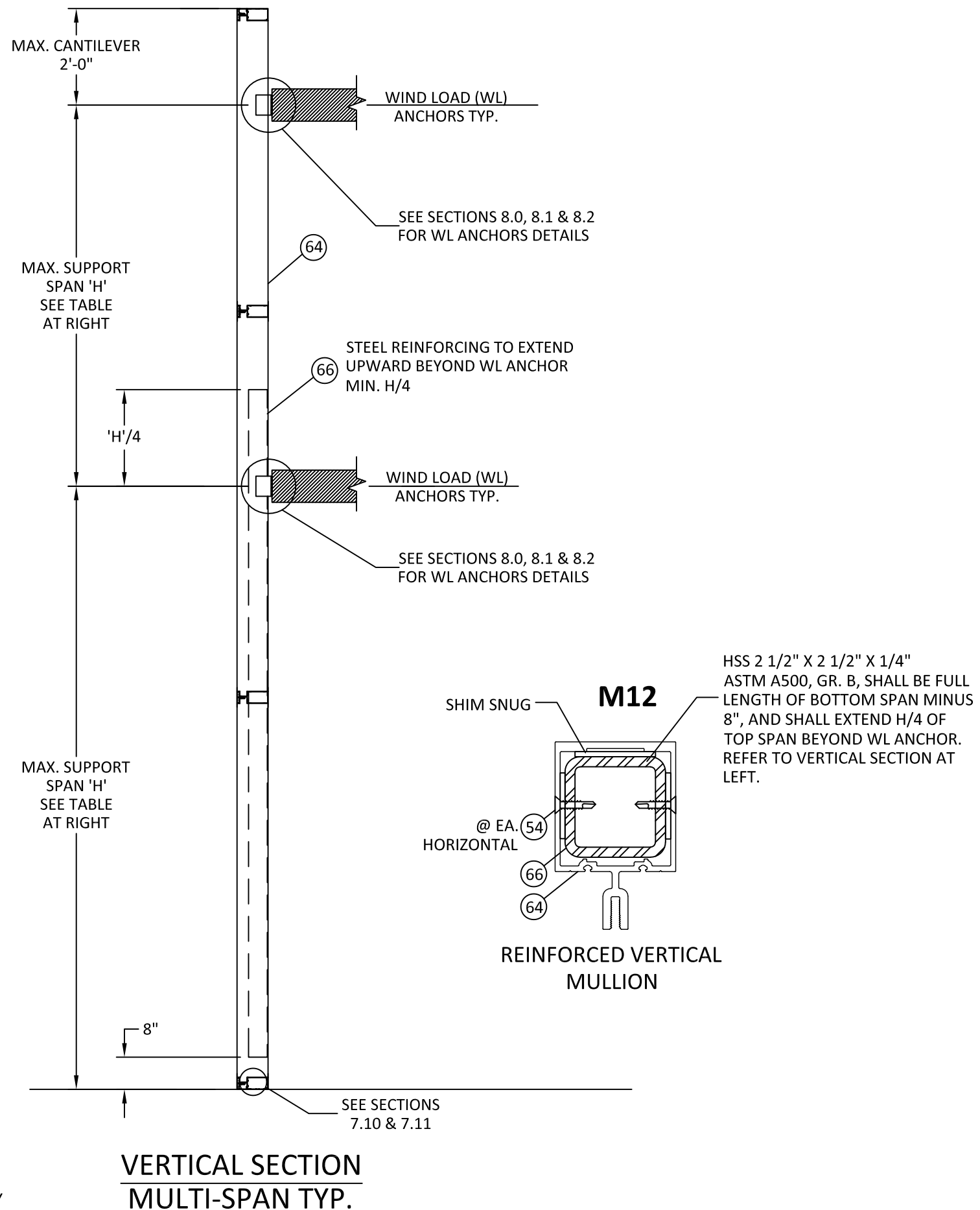
TWIN SPAN VERTICAL SHALLOW MULLION CAPACITIES

JAMB/MULLION LOAD CAPACITY (+/- PSF)		
NOMINAL DIMS.		M12
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)
36	108	55.0
42		55.0
48		55.0
54		55.0
60		55.0
66		55.0
72		55.0
36	115	55.0
42		55.0
48		55.0
54		55.0
60		55.0
66		55.0
72		53.3
36	120	55.0
42		55.0
48		55.0
54		55.0
60		55.0
66		53.4
72		48.9
36	124	55.0
42		55.0
48		55.0
54		55.0
60		55.0
66		50.0
72		45.8
36	126	55.0
42		55.0
48		55.0
54		55.0
60		53.3
66		48.4
72		44.4

JAMB/MULLION LOAD CAPACITY (+/- PSF)		
NOMINAL DIMS.		M12
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)
36	132	55.0
42		55.0
48		55.0
54		53.9
60		48.5
66		44.1
72		40.4
36	138	55.0
42		55.0
48		55.0
54		49.3
60		44.4
66		40.4
72		37.0
36	144	55.0
42		55.0
48		51.0
54		45.3
60		40.8
66		37.1
72		34.0
36	150	55.0
42		53.7
48		47.0
54		41.8
60		37.6
66		34.2
72		31.3

VERTICAL MEMBER MULTI SPAN NOTES:

1. DETAIL BELOW HAS BEEN SHOWN FOR ILLUSTRATIVE PURPOSES. FOR DETAILS OF FULL ASSEMBLY, PLEASE REFER TO APPLICABLE DETAILS ON SECTIONS 3 & 4.
2. TABULATED DESIGN PRESSURE VALUES ARE BASED ON LIMITATIONS OF DEFLECTION, FIBERSTRESS, & END REACTION PER MULLION SPAN ('H') AND MULLION SPACING ('W') AND HAVE BEEN PROVEN THROUGH APPLICABLE TESTING.
3. FOR SITE CONDITIONS WHICH EXCEED LIMITATIONS SHOWN, FURTHER ENGINEERING MAY BE REQUIRED ON A CASE BY CASE BASIS.
4. FOR T & F ANCHORS, PLEASE REFER TO SECTION 7 FOR ANCHOR SELECTION, SUBSTRATE REQUIREMENTS, CAPACITY, AND FURTHER LIMITATIONS OF USE.
5. FOR WL ANCHORS, PLEASE REFER TO SECTION 8 FOR APPLICABLE DETAILS.
6. REFER TO SECTION 2, MULTI SPAN ELEVATION, FOR ILLUSTRATION OF DETERMINING MAX. TRIBUTARY WIDTH 'W'.



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG
 CURTAIN WALL SYSTEM
 HORIZONTAL CORNER SECTIONS
 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

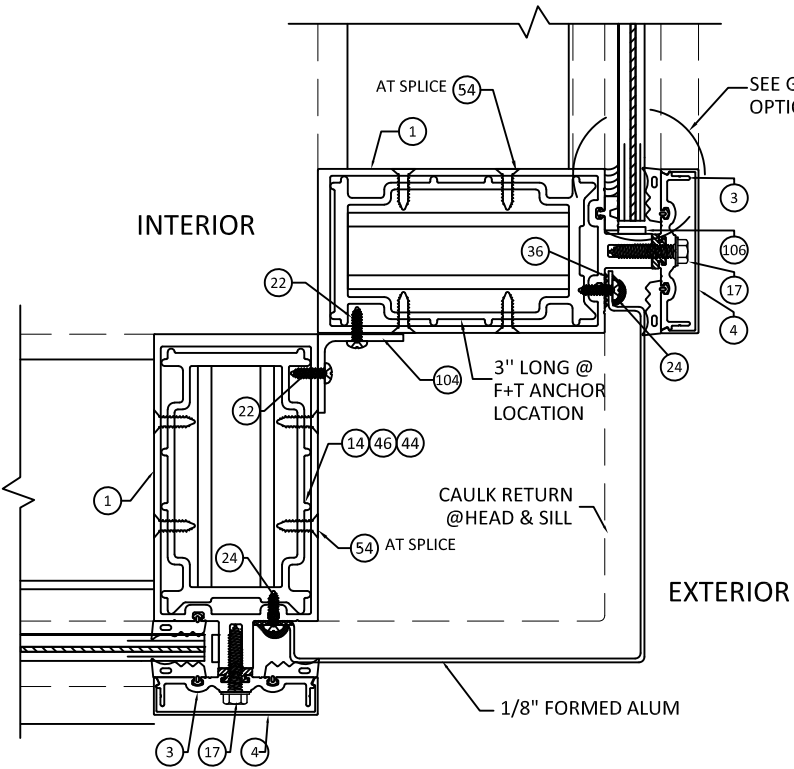


HERMES F. NORERO, P.E.
 TEXAS P.E. No. 118471
 BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD. # 338
 DANIA BEACH, FL 33004
 TBPE FIRM No. 13734

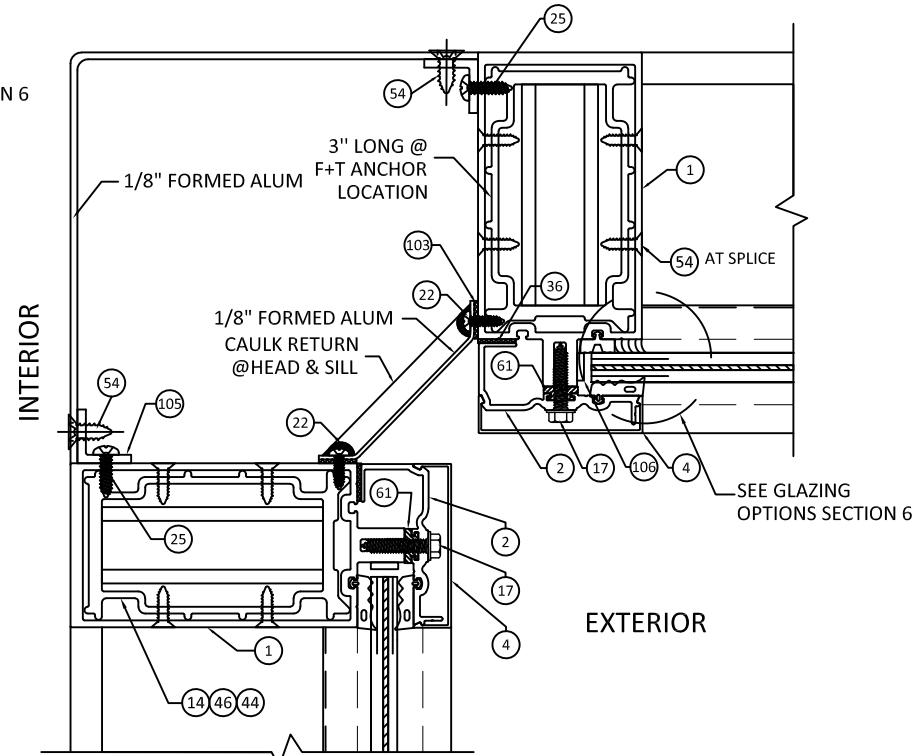
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DWG. BY:	MS	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	YKK280	
SECTION:	4.7A	
[PAGE 17 OF 72]		

s:\projects\ykk_ap_america, inc\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 1 thru 4 - cover, elev. vert. & horiz. dtls.dwg
 10/30/2021 7:18 PM

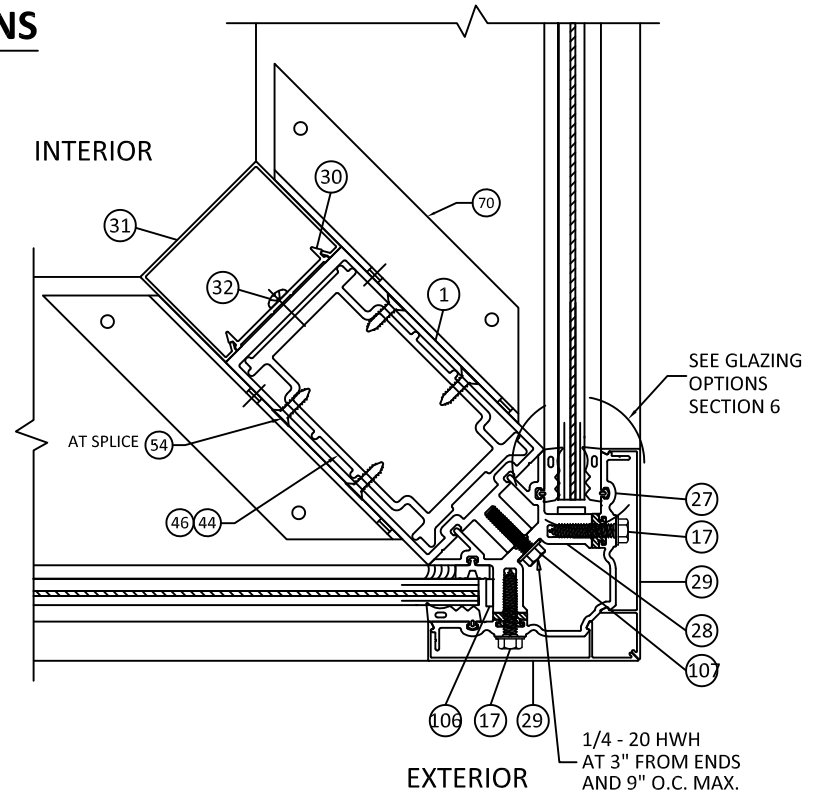
STANDARD DUTY CORNER MULLIONS - HORIZONTAL SECTIONS



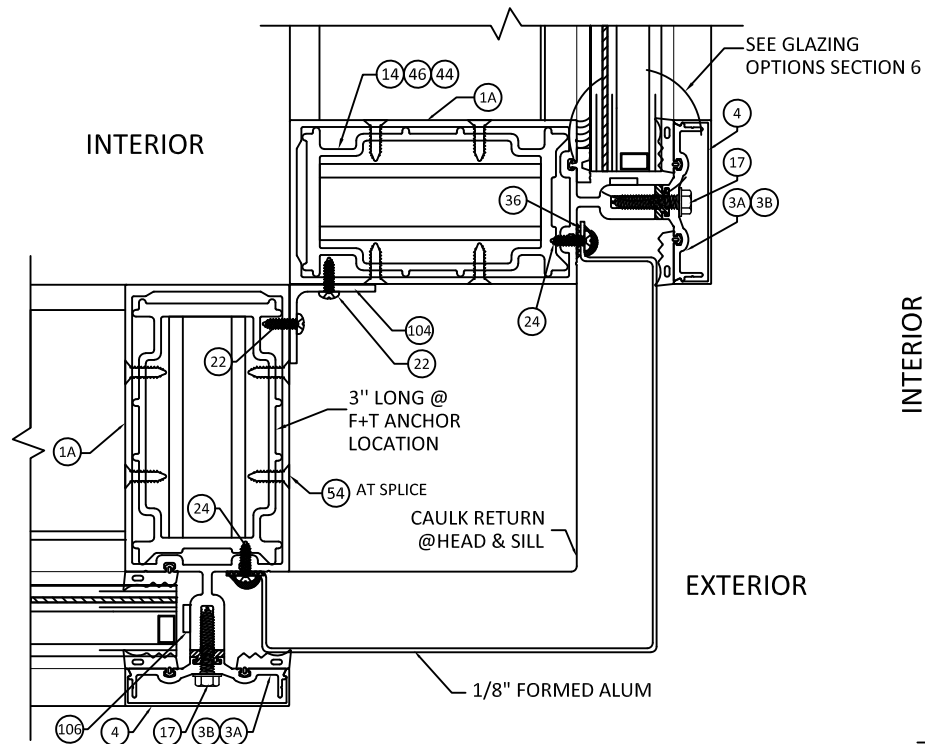
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4.8 **HORIZONTAL SECTION**
STANDARD DUTY MULLION
90° OUTSIDE CORNER - MONOLITHIC GLASS
F - ANCHOR



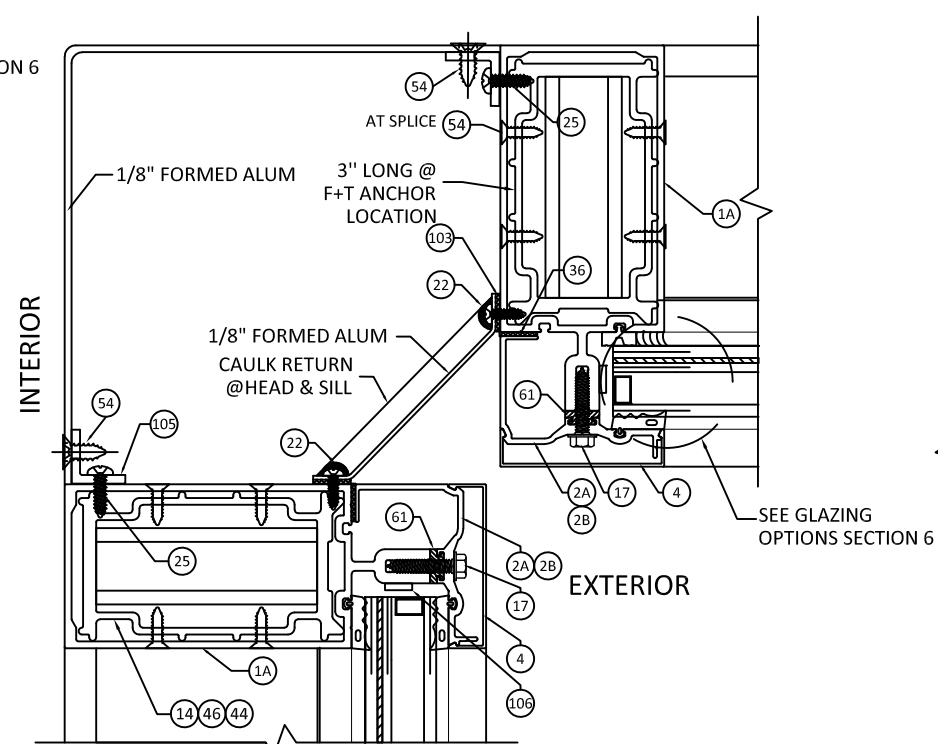
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STANDARD DUTY MULLION
90° INSIDE CORNER - MONOLITHIC GLASS
F - ANCHOR



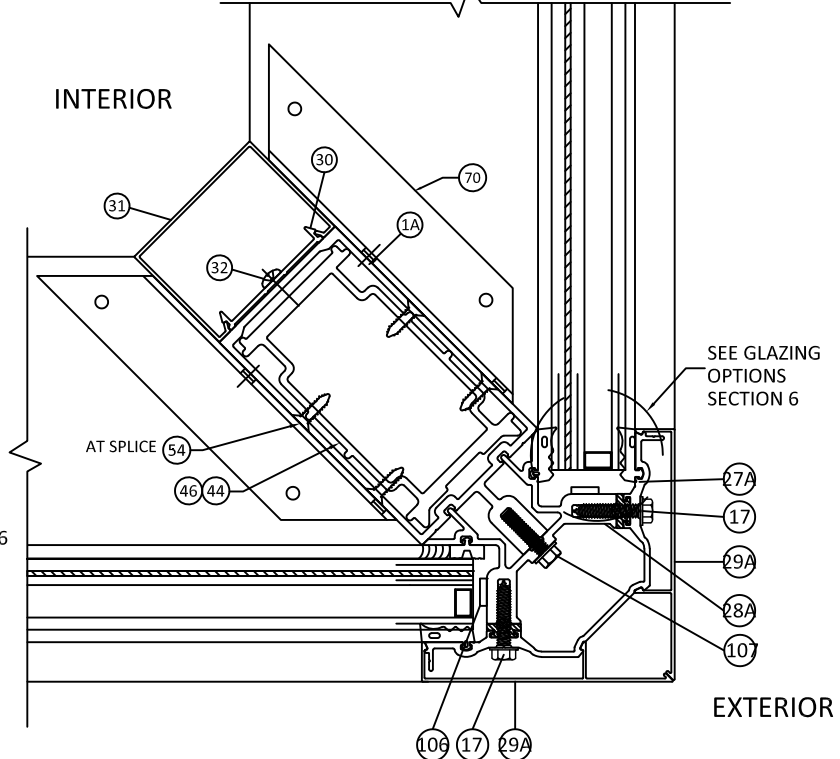
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4.8 **HORIZONTAL SECTION**
STANDARD DUTY MULLION
90° OUTSIDE CORNER - MONOLITHIC GLASS



4
4.8 **HORIZONTAL SECTION**
STANDARD DUTY MULLION
90° OUTSIDE CORNER - INSULATING GLASS
F - ANCHOR



5
4.8 **HORIZONTAL SECTION**
STANDARD DUTY MULLION
90° INSIDE CORNER - INSULATING GLASS
F - ANCHOR



6
4.8 **HORIZONTAL SECTION**
STANDARD DUTY MULLION
90° OUTSIDE CORNER - INSULATING GLASS



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: **YHC - 300 OG**
CURTAIN WALL SYSTEM
CORNER MULLIONS

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

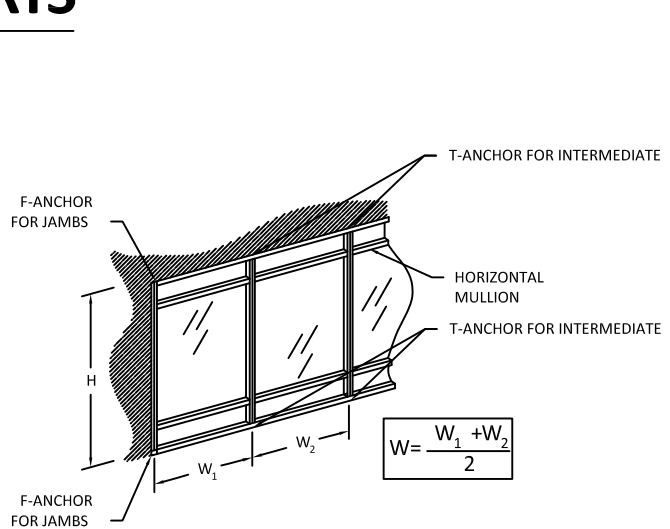
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DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK280
SECTION:	4.8

10/30/2021 7:18 PM
s:\projects\ykk_ap_america, inc\tdr-21-0820 - tdr submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 1 thru 4 - cover, elev, vert. & horz. dtls.dwg

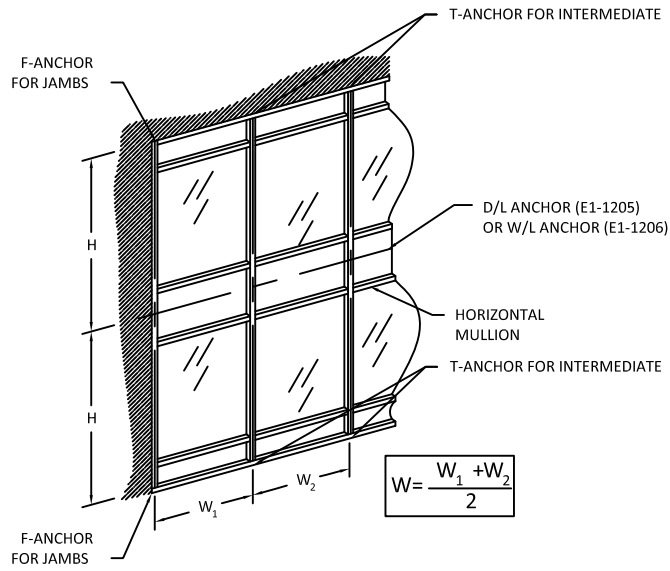
STANDARD DUTY MULLION CAPACITY CHARTS

- NOTES**
- DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION CAPACITY PER 2018 IBC, IRC SPECIFICATIONS
 - 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.

- CASE 1: SINGLE SPAN WITH UNREINFORCED MULLION
 CASE 2: SINGLE SPAN WITH REINFORCED MULLION FULL HEIGHT
 CASE 3: TWIN SPAN WITH REINFORCED MULLION AT INTERMEDIATE SUPPORT ONLY

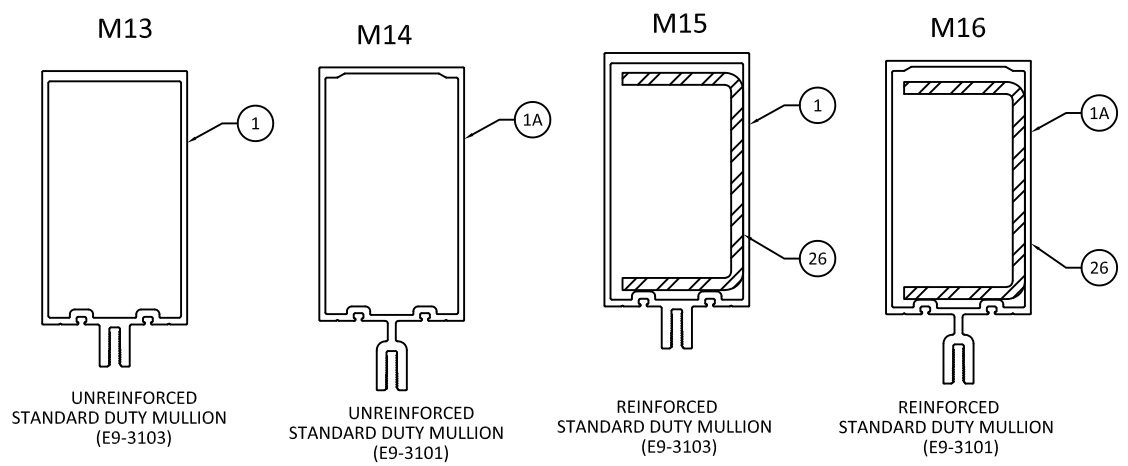


SINGLE SPAN
 REINFORCING LENGTH = FRAME HEIGHT - 12 IN.

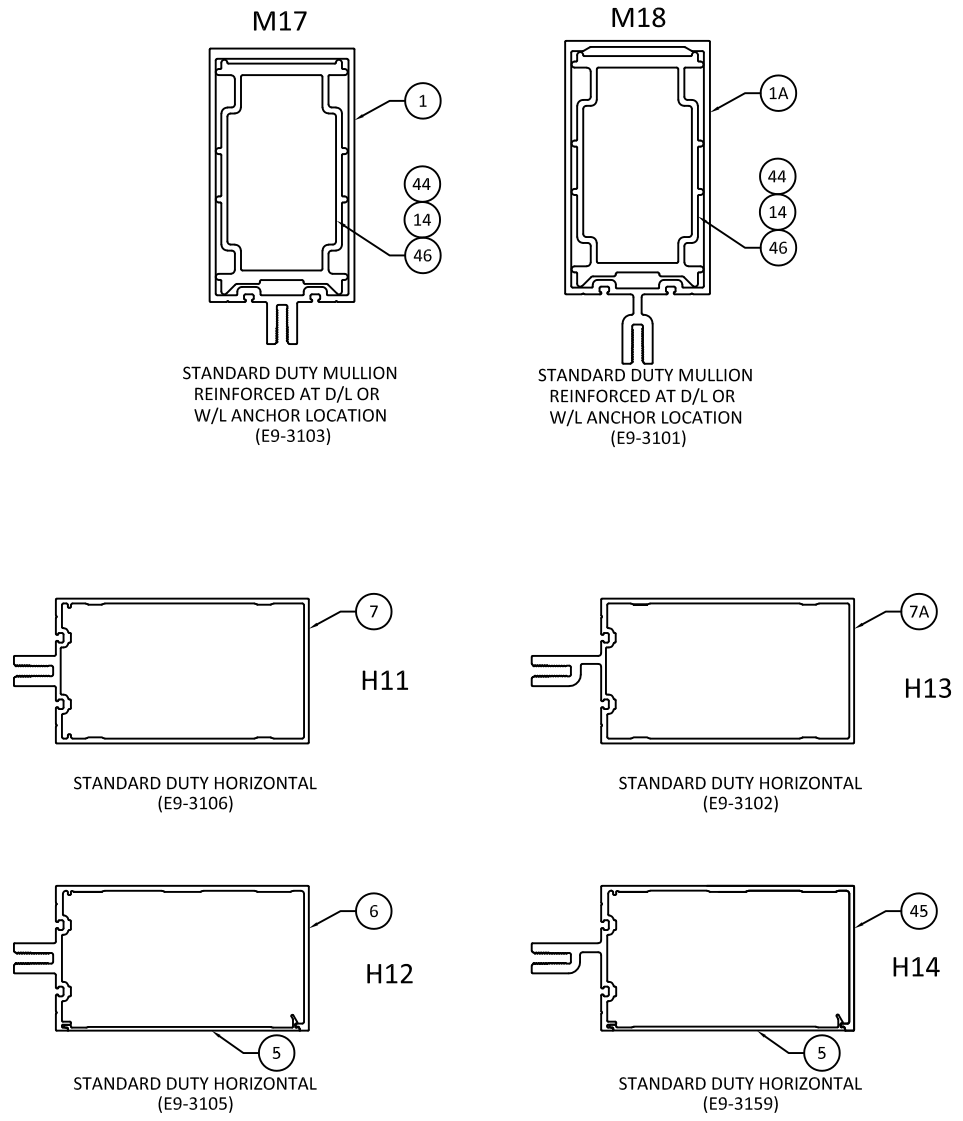


TWIN SPAN

MULLIONS



SECTIONS @ F/T ANCHOR / SPLICE/WIND LOAD/ DEAD LOAD LOCATION



REFER TO SECTION 4.9A FOR STANDARD DUTY CAPACITY TABLE.

- 14 MULLION ANCHOR SLEEVE (STD) (3" LONG @ TOP & BOTTOM)
- 44 MULLION SPLICE SLEEVE (STD) (6" LONG @ SPLICE)
- 46 MULLION WL/DL REINF. SLEEVE (STD) (29" LONG @ ANCHOR)



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG
 CURTAIN WALL SYSTEM
 HORIZONTAL SECTION CORNERS
 HIGH PRESSURE
 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: 08.24.21
 DWG. BY: MS
 CHK. BY: HFN
 SCALE: NTS
 DWG. #: YKK280
 SECTION:

4.9

STANDARD DUTY MULLION CAPACITY CHARTS



YKK AP AMERICA

1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

JAMB/MULLION LOAD CAPACITY (+/- PSF)					
NOMINAL DIMS.		CASE 1	CASE 2		CASE 3*
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	MULLION 'M13' & 'M14'	MULLION 'M15' & 'M16'	MULLION 'M17' & 'M18'	MULLION 'M17' & 'M18'
36	78	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	105.0	90.0
66		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
36	84	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	105.0	90.0
66		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
36	90	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	105.0	90.0
66		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
36	96	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	105.0	90.0
66		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
36	102	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	105.0	90.0
66		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
36	108	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	105.0	90.0
66		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
36	114	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	105.0	90.0
66		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0

JAMB/MULLION LOAD CAPACITY (+/- PSF)					
NOMINAL DIMS.		CASE 1	CASE 2		CASE 3*
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	MULLION 'M13' & 'M14'	MULLION 'M15' & 'M16'	MULLION 'M17' & 'M18'	MULLION 'M17' & 'M18'
36	120	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	105.0	90.0
66		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
36	123	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	105.0	90.0
66		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
36	126	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	105.0	90.0
66		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
36	132	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	105.0	90.0
66		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
72		90.0	90.0	105.0	90.0
36	138	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	105.0	90.0
66		90.0	90.0	105.0	90.0
72		82.9	90.0	92.4	90.0
72		90.0	90.0	105.0	90.0
36	144	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	105.0	90.0
60		90.0	90.0	101.8	90.0
66		86.6	90.0	92.6	90.0
72		79.4	84.9	84.9	89.2
72		90.0	90.0	105.0	90.0
36	150	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	104.3	90.0
60		90.0	90.0	93.9	90.0
66		83.2	85.3	85.3	90.0
72		76.3	78.2	78.2	85.6
72		90.0	90.0	105.0	90.0

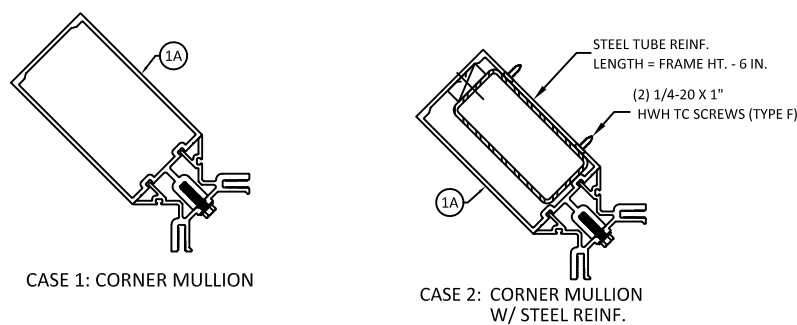
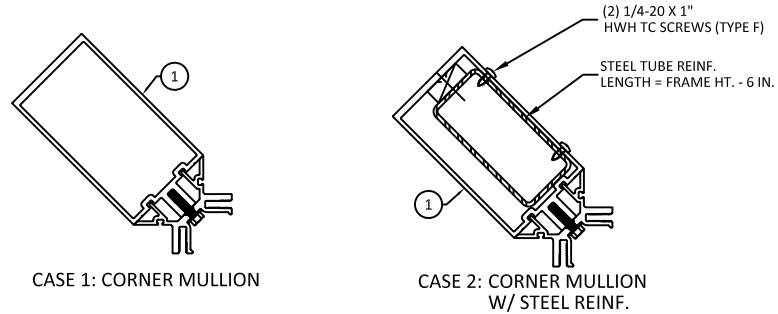
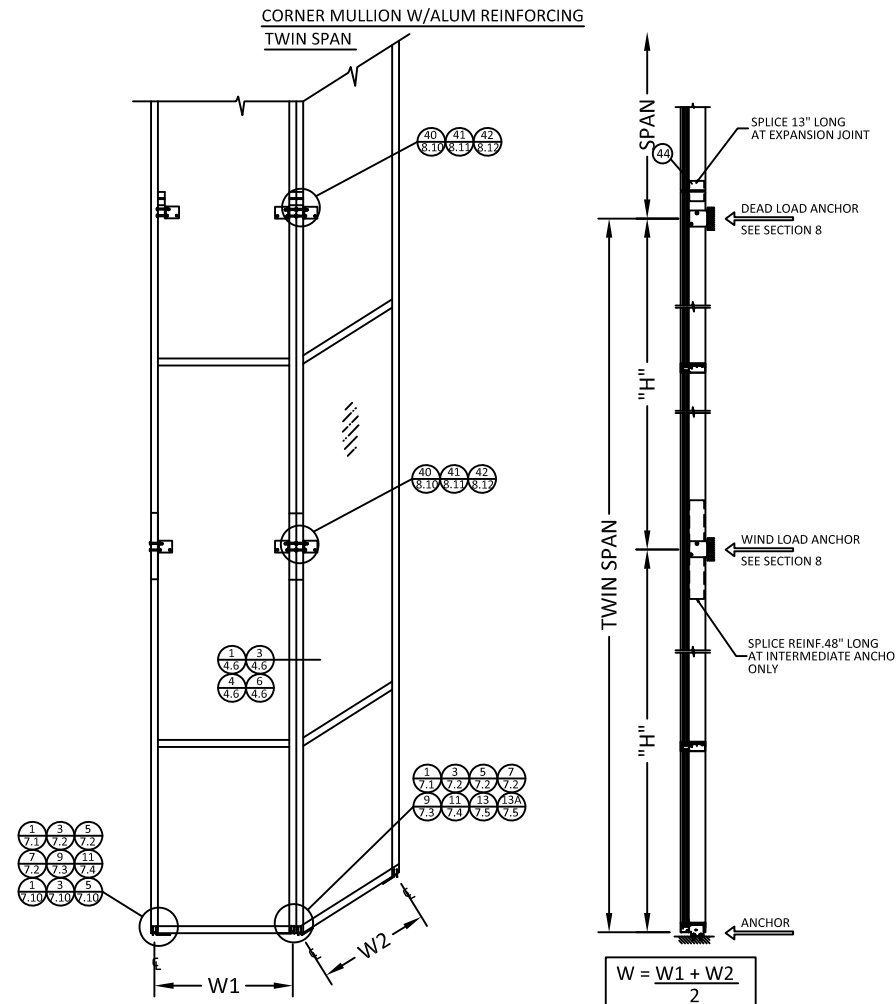
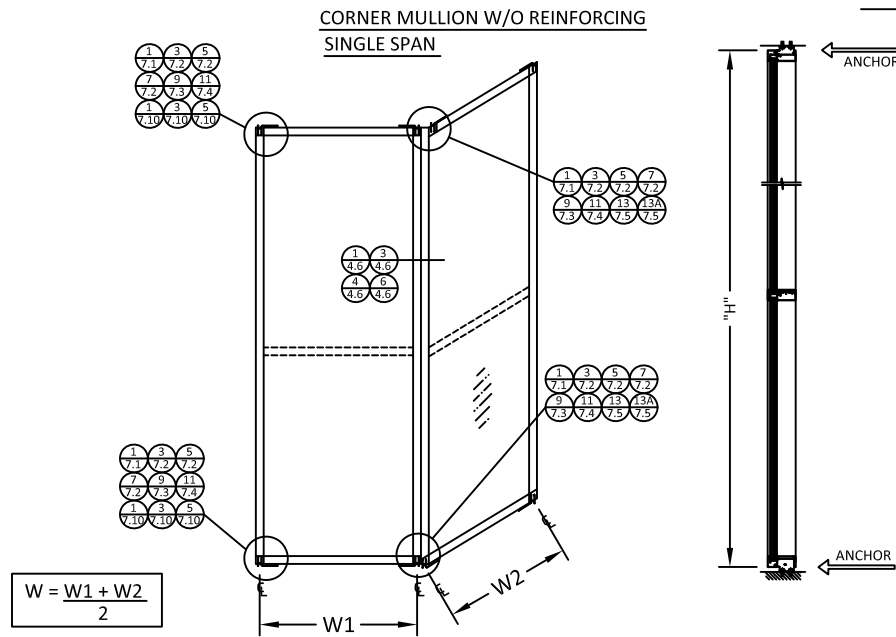
JAMB/MULLION LOAD CAPACITY (+/- PSF)					
NOMINAL DIMS.		CASE 1	CASE 2		CASE 3*
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	MULLION 'M13' & 'M14'	MULLION 'M15' & 'M16'	MULLION 'M17' & 'M18'	MULLION 'M17' & 'M18'
36	156	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	105.0	90.0
54		90.0	90.0	96.4	90.0
60		84.6	86.8	86.8	90.0
66		76.9	78.9	78.9	86.4
72		70.5	72.3	72.3	79.2
72		90.0	90.0	105.0	90.0
36	162	90.0	90.0	105.0	90.0
42		90.0	90.0	105.0	90.0
48		90.0	90.0	100.6	90.0
54		87.2	89.4	89.4	90.0
60		78.4	80.5	80.5	88.1
66		71.3	73.2	73.2	80.1
72		65.4	67.1	67.1	73.4
72		90.0	90.0	105.0	90.0
36	168	90.0	90.0	102.4	90.0
42		90.0	90.0	90.0	90.0
48		90.0	90.0	90.0	90.0
54		81.0	81.0	81.0	90.0
60		72.9	72.9	72.9	81.9
66		66.3	66.3	66.3	74.5
72		60.8	60.8	60.8	68.3
72		90.0	90.0	105.0	90.0
36	174	90.0	90.0	91.4	90.0
42		90.0	90.0	90.0	90.0
48		85.0	85.0	85.0	90.0
54		75.6	75.6	75.6	84.8
60		68.0	68.0	68.0	76.4
66		61.8	61.8	61.8	69.4
72		56.7	56.7	56.7	63.6
72		90.0	90.0	95.5	90.0
36	180	90.0	90.0	90.0	90.0
42		90.0	90.0	90.0	90.0
48		79.4	79.4	79.4	89.2
54		70.6	70.6	70.6	79.3
60		63.5	63.5	63.5	71.4
66		57.8	57.8	57.8	64.9
72		53.0	53.0	53.0	59.5
72		90.0	90.0	90.0	90.0
36	186	90.0	90.0	85.0	90.0
42		85.0	85.0	85.0	90.0
48		74.4	74.4	74.4	83.5
54		66.1	66.1	66.1	74.2
60		59.5	59.5	59.5	66.8
66		54.1	54.1	54.1	60.7
72		49.6	49.6	49.6	55.7
72		90.0	90.0	90.0	90.0
36	192	90.0	90.0	89.6	90.0
42		79.8	79.8	79.8	89.6
48		69.8	69.8	69.8	78.4
54		62.1	62.1	62.1	69.7
60		55.8	55.8	55.8	62.7
66		50.8	50.8	50.8	57.0
72		46.5	46.5	46.5	52.3
72		90.0	90.0	90.0	90.0

JAMB/MULLION LOAD CAPACITY (+/- PSF)					
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*	
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	MULLION 'M13' & 'M14'	MULLION 'M15' & 'M16'	MULLION 'M17' & 'M18'	MULLION 'M17' & 'M18'
36	204	82.5	82.5	90.0	
42		70.7	70.7	79.4	
48		61.8	61.8	69.4	
54		55.0	55.0	61.7	
60		49.5	49.5	55.6	
66		45.0	45.0	50.5	
72		41.2	41.2	46.3	
72		77.8	77.8	87.4	
36	210	66.7	66.7	74.9	
42		58.4	58.4	65.5	
48		51.9	51.9	58.2	
54		46.7	46.7	52.4	
60		42.4	42.4	47.7	
66		38.9	38.9	43.7	
72		73.5	73.5	82.6	
72		63.0	63.0	70.8	
36	216	55.2	55.2	61.9	
42		49.0	49.0	55.1	
48		44.1	44.1	49.6	
54		40.1	40.1	45.0	
60		36.8	36.8	41.3	
66		69.6	69.6	78.2	
72		59.7	59.7	67.0	
72		52.2	52.2	58.6	
36	222	46.4	46.4	52.1	
42		41.8	41.8	46.9	
48		38.0	38.0	42.6	
54		34.8	34.8	39.1	
60		66.0	66.0	74.1	
66		56.6	56.6	63.5	
72		49.5	49.5	55.6	
72		44.0	44.0	49.4	
36	228	39.6	39.6	44.5	
42		36.0	36.0	40.4	
48		33.0	33.0	37.1	
54		62.7	62.7	70.4	
60		53.7	53.7	60.3	
66		47.0	47.0	52.8	
72		41.8	41.8	46.9	
72		37.6	37.6	42.2	
36	234	34.2	34.2	38.4	
42		31.3	31.3	35.2	
48		90.0	90.0	90.0	
54		79.8	79.8	89.6	
60		69.8	69.8	78.4	
66		62.1	62.1	69.7	
72		55.8	55.8	62.7	
72		50.8	50.8	57.0	

JAMB/MULLION LOAD CAPACITY (+/- PSF)					
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*	
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	MULLION 'M13' & 'M14'	MULLION 'M15' & 'M16'	MULLION 'M17' & 'M18'	MULLION 'M17' & 'M18'
36	240	59.6	59.6	66.9	
42		51.1	51.1	57.3	
48		44.7	44.7	50.2	
54		39.7	39.7	44.6	
60		35.7	35.7	40.1	
66		32.5	32.5	36.5	
72		29.8	29.8	33.4	
72		55.3	55.3	62.1	
36	246	47.4			

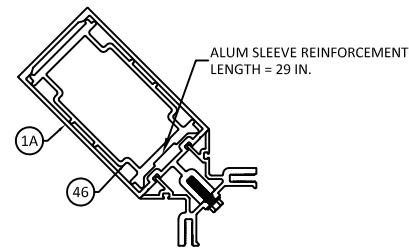
STANDARD DUTY CORNER MULLIONS - CAPACITY CHART

DEAD/ WIND LOAD ANCHOR & SLEEVE LOCATION



WIDTH-W INCHES	FRAME HEIGHT INCHES	DP (+/- PSF)
43	120	88.0
48	120	79.0
54	120	70.0
60	120	63.0

WIDTH-W INCHES	FRAME HEIGHT INCHES	DP (+/- PSF)
48	150	90.0
52	138	90.0
60	120	90.0



W3	SPAN	DP (+/- PSF)
48 IN.	150 IN.	81 PSF
44 IN.	150 IN.	90 PSF
60 IN.	120 IN.	90 PSF

MULLION LOAD CAPACITY (+/- PSF)					MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.	CASE 1	CASE 2	CASE 3*		NOMINAL DIMS.	CASE 1	CASE 2	CASE 3*	
AVG. MUL. SPACING (W)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	SPAN HEIGHT 'H' (in.)	AVG. MUL. SPACING (W)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	SPAN HEIGHT 'H' (in.)
24	90.0	90.0	90.0	24	89.1	90.0	90.0		186
30	90.0	90.0	90.0	30	71.3	90.0	90.0		186
36	90.0	90.0	90.0	36	59.4	83.6	90.0		186
42	90.0	90.0	90.0	42	50.9	71.7	84.8		186
48	90.0	90.0	90.0	48	44.5	62.7	74.2		186
54	90.0	90.0	90.0	54	39.6	55.7	66.0		186
60	90.0	90.0	90.0	60	35.6	50.2	59.4		186
66	90.0	90.0	90.0	66	32.4	45.6	54.0		186
72	90.0	90.0	90.0	72	29.7	41.8	49.5		186
24	90.0	90.0	90.0	24	80.4	90.0	90.0		192
30	90.0	90.0	90.0	30	64.3	90.0	90.0		192
36	90.0	90.0	90.0	36	53.6	75.4	90.0		192
42	90.0	90.0	90.0	42	45.9	64.7	79.6		192
48	90.0	90.0	90.0	48	40.2	56.6	69.7		192
54	90.0	90.0	90.0	54	35.7	50.3	61.9		192
60	90.0	90.0	90.0	60	32.1	45.3	55.7		192
66	90.0	90.0	90.0	66	29.2	41.1	50.7		192
72	85.8	90.0	90.0	72	26.8	37.7	46.4		192
24	90.0	90.0	90.0	24	72.7	90.0	90.0		198
30	90.0	90.0	90.0	30	58.2	81.9	90.0		198
36	90.0	90.0	90.0	36	48.5	68.3	87.3		198
42	90.0	90.0	90.0	42	41.6	58.5	74.9		198
48	90.0	90.0	90.0	48	36.4	51.2	65.5		198
54	90.0	90.0	90.0	54	32.3	45.5	58.2		198
60	90.0	90.0	90.0	60	29.1	41.0	52.4		198
66	85.3	90.0	90.0	66	26.5	37.2	47.6		198
72	78.2	90.0	86.5	72	24.2	34.1	43.7		198
24	90.0	90.0	90.0	24	66.1	90.0	90.0		204
30	90.0	90.0	90.0	30	52.8	74.4	90.0		204
36	90.0	90.0	90.0	36	44.0	62.0	82.3		204
42	90.0	90.0	90.0	42	37.7	53.2	70.5		204
48	90.0	90.0	90.0	48	33.0	46.5	61.7		204
54	90.0	90.0	90.0	54	29.4	41.3	54.9		204
60	85.8	90.0	90.0	60	26.4	37.2	49.4		204
66	78.0	90.0	90.0	66	24.0	33.8	44.9		204
72	71.5	90.0	82.7	72	22.0	31.0	41.1		204
24	90.0	90.0	90.0	24	60.2	84.7	90.0		210
30	90.0	90.0	90.0	30	48.1	67.8	90.0		210
36	90.0	90.0	90.0	36	40.1	56.5	77.6		210
42	90.0	90.0	90.0	42	34.4	48.4	66.6		210
48	90.0	90.0	90.0	48	30.1	42.4	58.2		210
54	87.6	90.0	90.0	54	26.7	37.7	51.8		210
60	78.8	90.0	90.0	60	24.1	33.9	46.6		210
66	71.6	90.0	86.5	66	21.9	30.8	42.4		210
72	65.7	85.9	79.3	72	20.1	28.2	38.8		210
24	90.0	90.0	90.0	24	54.9	77.4	90.0		216
30	90.0	90.0	90.0	30	44.0	61.9	88.1		216
36	90.0	90.0	90.0	36	36.6	51.6	73.4		216
42	90.0	90.0	90.0	42	31.4	44.2	62.9		216
48	88.0	90.0	90.0	48	27.5	38.7	55.0		216
54	78.3	90.0	90.0	54	24.4	34.4	48.9		216
60	70.4	90.0	90.0	60	22.0	30.9	44.0		216
66	64.0	86.4	83.0	66	20.0	28.1	40.0		216
72	58.7	79.2	76.1	72	18.3	25.8	36.7		216
24	90.0	90.0	90.0	24	50.3	70.8	90.0		222
30	90.0	90.0	90.0	30	40.2	56.7	83.4		222
36	90.0	90.0	90.0	36	33.5	47.2	69.5		222
42	90.0	90.0	90.0	42	28.7	40.5	59.6		222
48	79.0	90.0	90.0	48	25.2	35.4	52.1		222
54	70.2	90.0	90.0	54	22.4	31.5	46.3		222
60	63.2	87.8	84.4	60	20.1	28.3	41.7		222
66	57.5	79.8	76.7	66	18.3	25.8	37.9		222
72	52.7	73.2	70.4	72	16.8	23.6	34.7		222
24	90.0	90.0	90.0	24	46.2	65.0	90.0		228
30	90.0	90.0	90.0	30	36.9	52.0	79.0		228
36	90.0	90.0	90.0	36	30.8	43.4	65.9		228
42	79.8	90.0	90.0	42	26.4	37.2	56.5		228
48	69.8	90.0	90.0	48	23.1	32.5	49.4		228
54	62.1	87.4	87.0	54	20.5	28.9	43.9		228
60	55.9	78.7	78.3	60	18.5	26.0	39.5		228
66	50.8	71.5	71.2	66	16.8	23.6	35.9		228
72	46.6	65.6	65.2	72	15.4	21.7	32.9		228
24	90.0	90.0	90.0	24	42.5	59.8	90.0		234
30	90.0	90.0	90.0	30	34.0	47.9	75.0		234
36	82.7	90.0	90.0	36	28.3	39.9	62.5		234
42	70.9	90.0	90.0	42	24.3	34.2	53.6		234
48	62.0	87.3	90.0	48	21.2	29.9	46.9		234
54	55.1	77.6	80.9	54	18.9	26.6	41.7		234
60	49.6	69.9	72.8	60	17.0	23.9	37.5		234
66	45.1	63.5	66.2	66	15.5	21.8	34.1		234
72	41.3	58.2	60.7	72	14.2	19.9	31.3		234
24	90.0	90.0	90.0	24	39.2	55.2	89.2		240
30	88.5	90.0	90.0	30	31.3	44.1	71.3		240
36	73.8	90.0	90.0	36	26.1	36.8	59.4		240
42	63.2	89.0	90.0	42	22.4	31.5	51.0		240
48	55.3	77.9	84.8	48	19.6	27.6	44.6		240
54	49.2	69.2	75.4	54	17.4	24.5	39.6		240
60	44.3	62.3	67.9	60	15.7	22.1	35.7		240
66	40.2	56.6	61.7	66	14.2	20.1	32.4		240
72	36.9	51.9	56.6	72	13.1	18.4	29.7		240
24	90.0	90.0	90.0	24	36.2	51.0	82.8		246
30	79.3	90.0	90.0	30	29.0	40.8	66.2		246
36	66.0	90.0	90.0	36	24.1	34.0	55.2		246
42	56.6	79.7	90.0	42	20.7	29.1	47.3		246
48	49.5	69.8	79.3	48	18.1	25.5	41.4		246
54	44.0	62.0	70.5	54	16.1	22.7	36.8		246
60	39.6	55.8	63.4	60	14.5	20.4	33.1		246
66	36.0	50.7	57.6	66	13.2	18.5	30.1		246
72	33.0	46.5	52.8	72	12.1	17.0	27.6		246

*SLEEVE REINFORCEMENT @ WL + DL, 29" LONG



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**

MULLION CAPACITY CHARTS

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: **08.24.21**

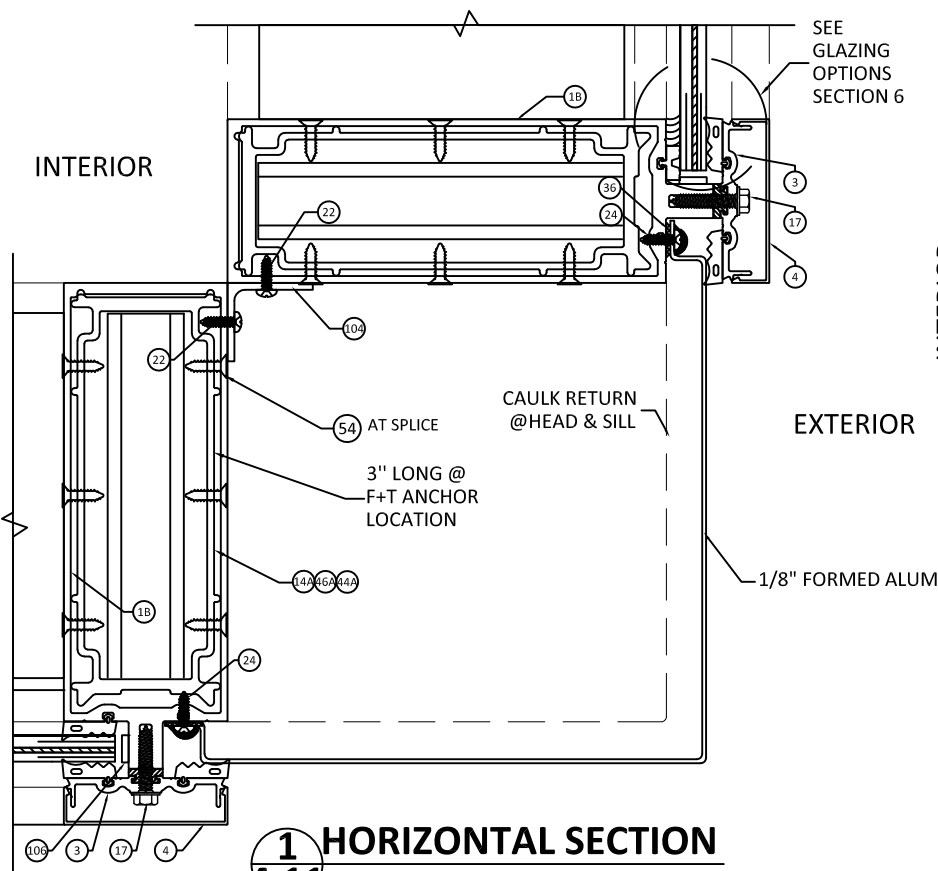
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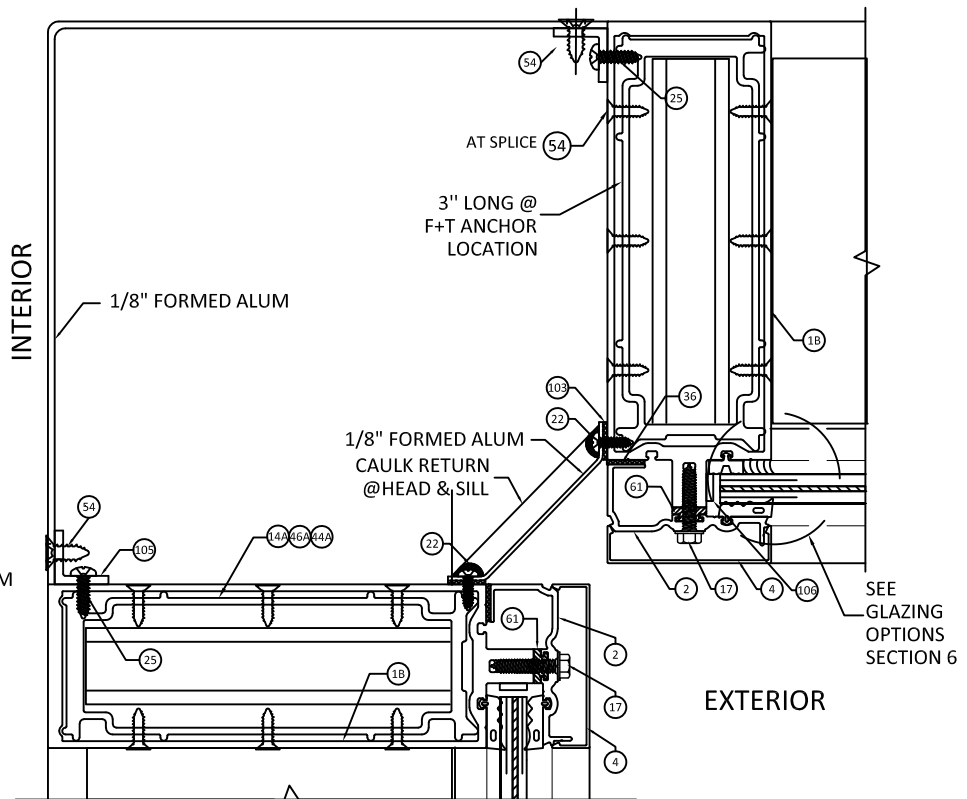
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SECTION: **4.10**

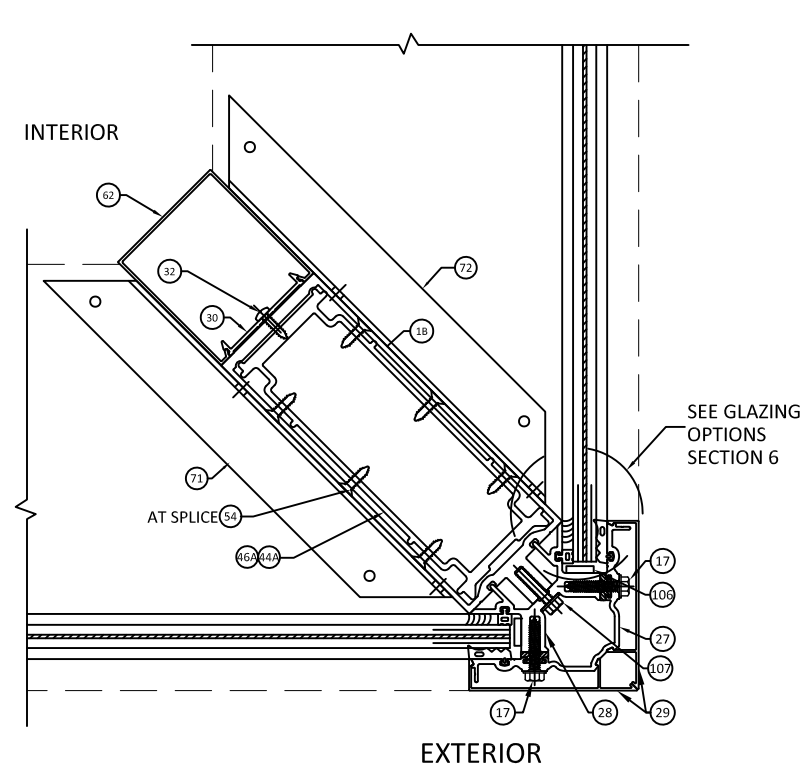
HEAVY DUTY CORNER MULLIONS - HORIZONTAL SECTIONS



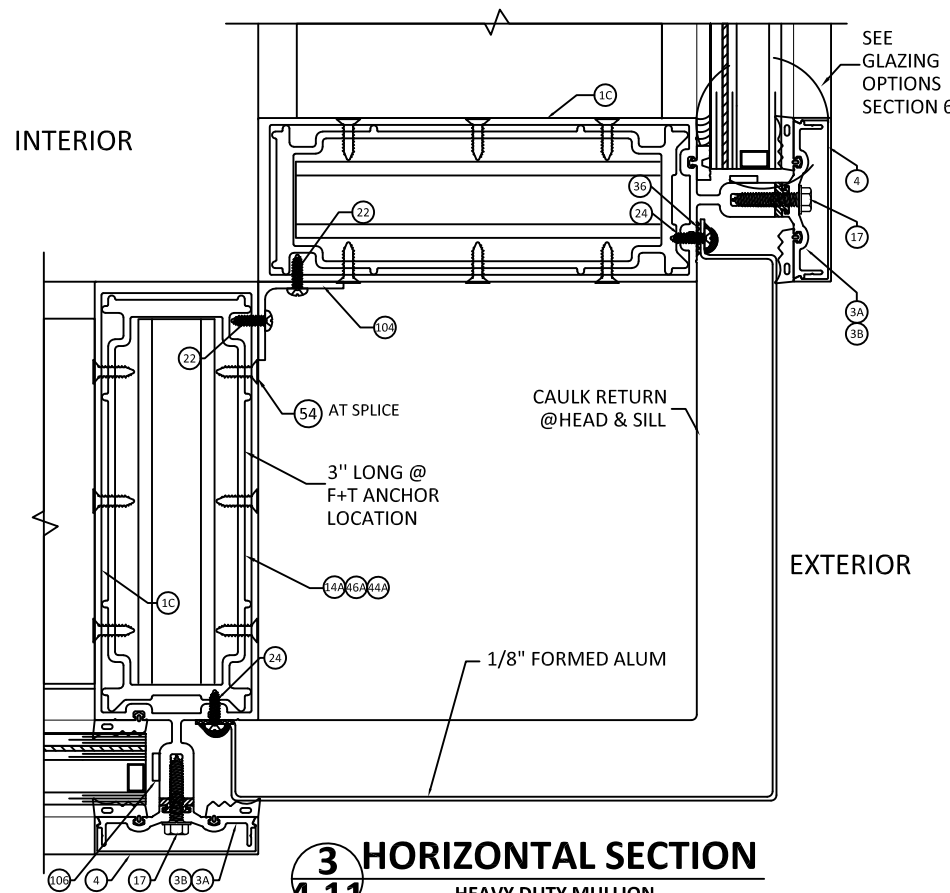
1 HORIZONTAL SECTION
4.11 HEAVY DUTY MULLION
 90° OUTSIDE CORNER - MONOLITHIC GLASS



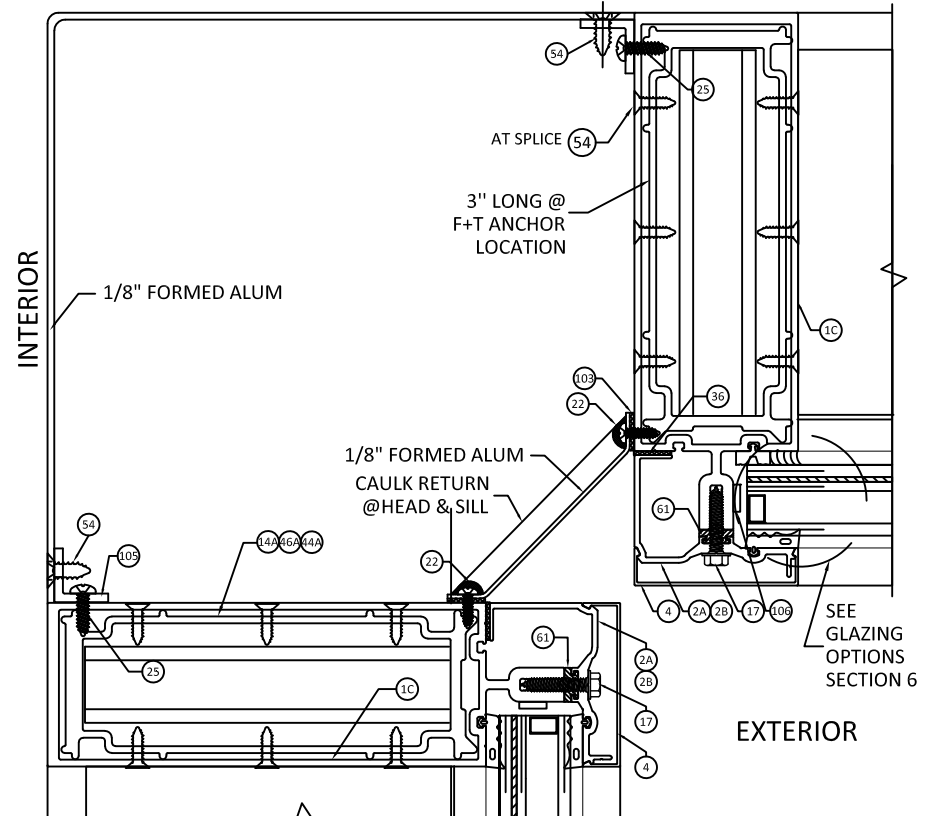
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4.11 HEAVY DUTY MULLION
 90° INSIDE CORNER - MONOLITHIC GLASS



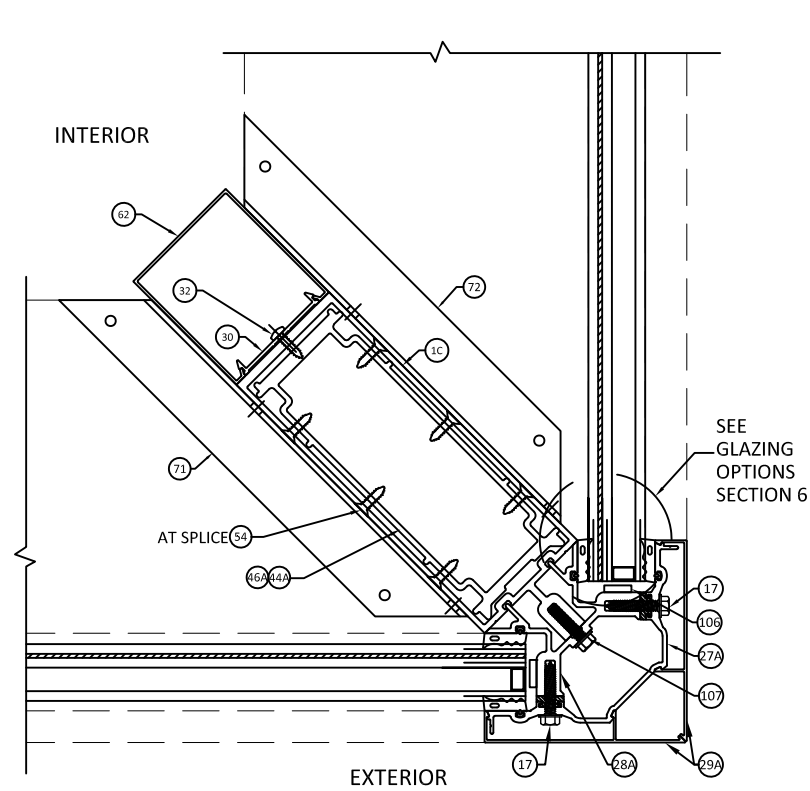
5 HORIZONTAL SECTION
4.11 HEAVY DUTY MULLION
 90° OUTSIDE CORNER - MONOLITHIC GLASS



3 HORIZONTAL SECTION
4.11 HEAVY DUTY MULLION
 90° OUTSIDE CORNER - INSULATING GLASS



4 HORIZONTAL SECTION
4.11 HEAVY DUTY MULLION
 90° INSIDE CORNER - INSULATING GLASS



6 HORIZONTAL SECTION
4.11 HEAVY DUTY MULLION
 90° OUTSIDE CORNER - INSULATING GLASS



YKK AP AMERICA
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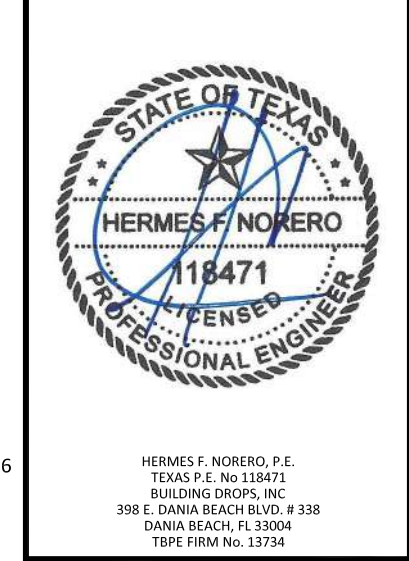
TITLE: **YHC - 300 OG**
CURTAIN WALL SYSTEM

HORIZONTAL CORNER SECTIONS

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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DATE: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

SECTION:

4.11
 [PAGE 22 OF 72]

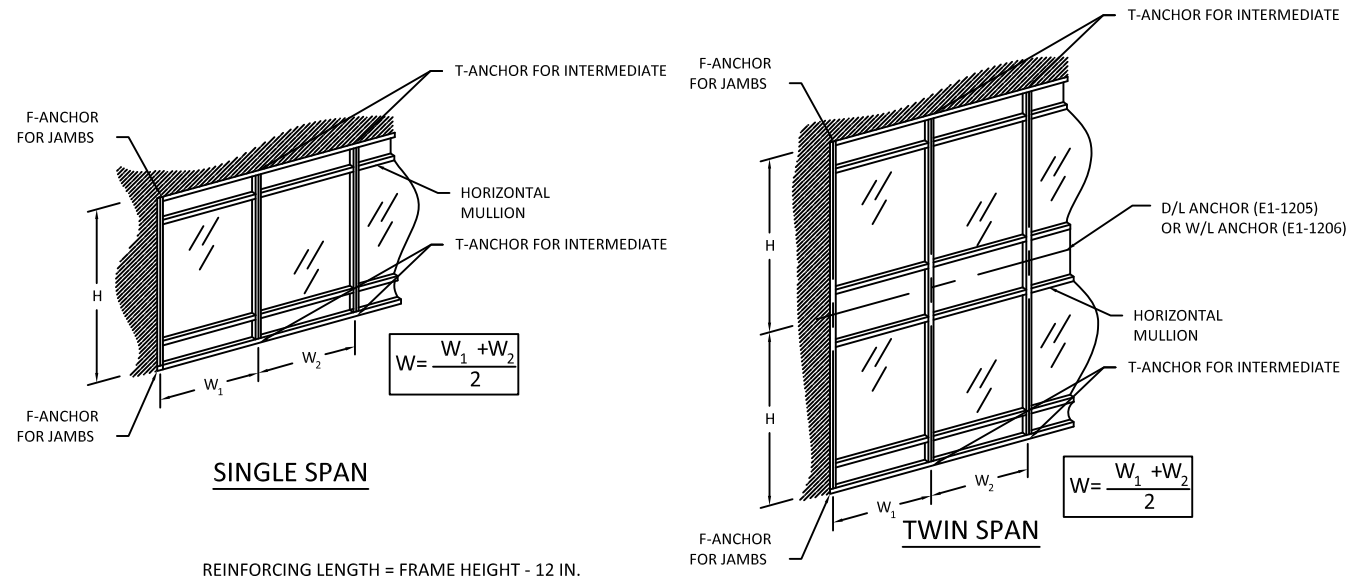
10/30/2021 7:18 PM
 s:\projects\ykk_ap_america, inc\tdi-21-0820 - tdi submittal - revision series yhc 300 og curtain wall (cwsf-54)\dwgs\ykk_280 - dwgs 1 thru 4 - cover, elev. vert. & horz. dtls.dwg

HEAVY DUTY MULLION CAPACITY CHARTS (STANDARD PRESSURE)

NOTES

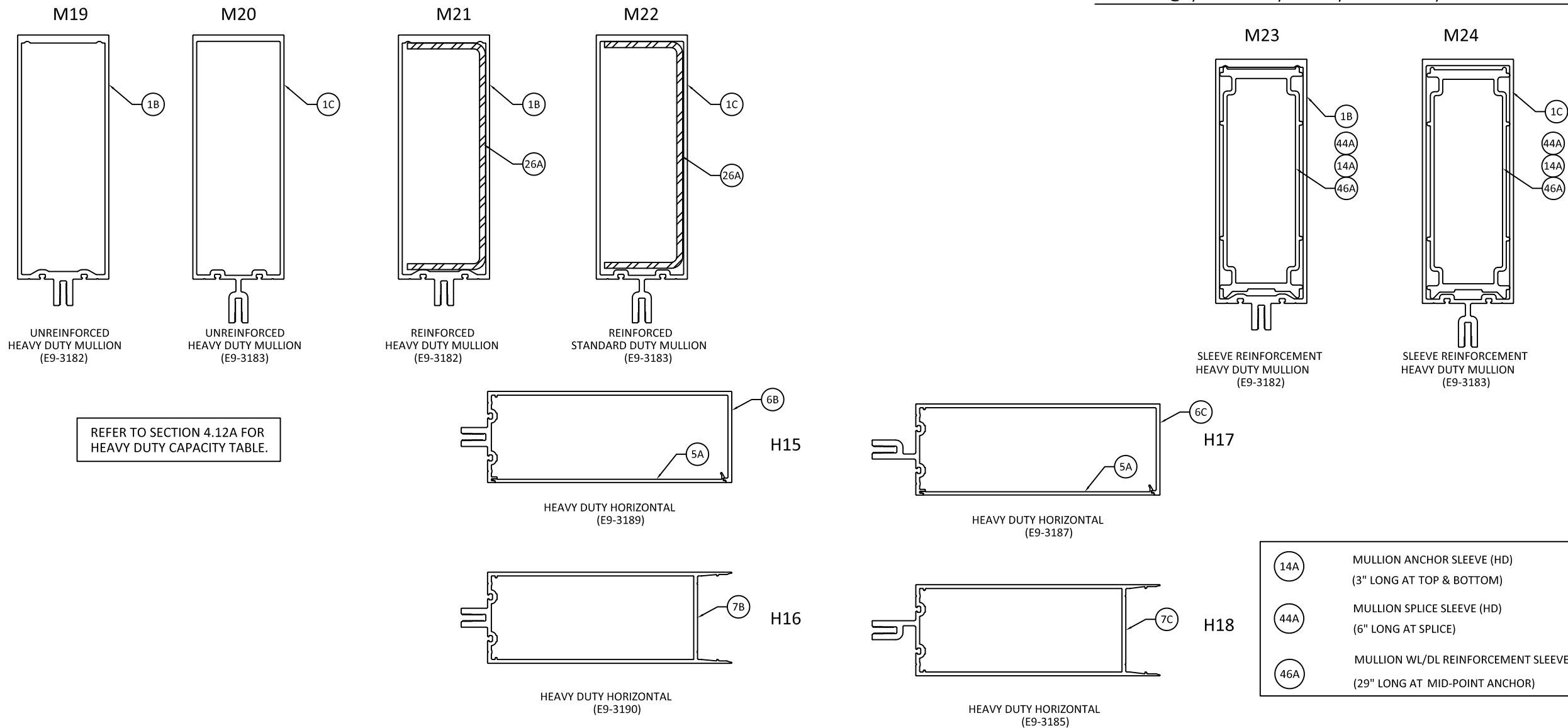
- DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION CAPACITY PER 2018 IBC, IRC SPECIFICATIONS
- SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.
- FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.
- WHEN PANEL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

- CASE 1: SINGLE SPAN WITH UNREINFORCED MULLION
 CASE 2: SINGLE SPAN WITH REINFORCED MULLION FULL HEIGHT
 CASE 3: TWIN SPAN WITH REINFORCED MULLION AT INTERMEDIATE SUPPORT ONLY



MULLIONS

SECTIONS @ F/T ANCHOR/ SPLICE/WIND LOAD/ DEAD LOAD LOCATION



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
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TITLE: YHC - 300 OG CURTAIN WALL SYSTEM
 HEAVY DUTY MULLION CAPACITY CHARTS

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:	08.24.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK280
SECTION:	

4.12
 [PAGE 23 OF 72]

HEAVY DUTY MULLION CAPACITY CHARTS (STANDARD PRESSURES)



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
		MULLION 'M19' & 'M20'	MULLION 'M21' & 'M22'	MULLION 'M23' & 'M24'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	144	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66		90.0	90.0	90.0
72		90.0	90.0	90.0
36	150	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66		90.0	90.0	90.0
72		83.0	90.0	90.0
36	156	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		90.0	90.0	90.0
66		83.7	90.0	90.0
72		76.7	90.0	90.0
36	162	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
60		85.4	90.0	90.0
66		77.6	90.0	90.0
72		71.2	90.0	90.0
36	168	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		88.2	90.0	90.0
60		79.4	90.0	90.0
66		72.2	90.0	90.0
72		66.2	90.0	90.0
36	174	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		82.2	90.0	90.0
60		74.0	90.0	90.0
66		67.3	90.0	90.0
72		61.7	90.0	90.0

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
		MULLION 'M19' & 'M20'	MULLION 'M21' & 'M22'	MULLION 'M23' & 'M24'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	180	90.0	90.0	90.0
42		90.0	90.0	90.0
48		85.6	90.0	90.0
54		76.1	90.0	90.0
60		68.5	90.0	90.0
66		62.2	90.0	90.0
72		57.1	90.0	90.0
36	186	90.0	90.0	90.0
42		88.7	90.0	90.0
48		77.6	90.0	90.0
54		69.0	90.0	90.0
60		62.1	90.0	90.0
66		56.4	90.0	90.0
72		51.7	90.0	90.0
36	192	90.0	90.0	90.0
42		80.6	90.0	90.0
48		70.5	90.0	90.0
54		62.7	90.0	90.0
60		56.4	90.0	90.0
66		51.3	90.0	89.8
72		47.0	90.0	82.3
36	198	85.7	90.0	90.0
42		73.5	90.0	90.0
48		64.3	90.0	90.0
54		57.2	90.0	90.0
60		51.4	90.0	90.0
66		46.8	90.0	81.9
72		42.9	84.7	75.0
36	204	78.4	90.0	90.0
42		67.2	90.0	90.0
48		58.8	90.0	90.0
54		52.3	90.0	90.0
60		47.0	90.0	82.3
66		42.8	87.1	74.8
72		39.2	79.8	68.6
36	210	71.9	90.0	90.0
42		61.6	90.0	90.0
48		53.9	90.0	90.0
54		47.9	90.0	83.9
60		43.1	90.0	75.5
66		39.2	82.2	68.6
72		35.9	75.3	62.9

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
		MULLION 'M19' & 'M20'	MULLION 'M21' & 'M22'	MULLION 'M23' & 'M24'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	216	66.0	90.0	90.0
42		56.6	90.0	90.0
48		49.5	90.0	86.7
54		44.0	90.0	77.1
60		39.6	85.4	69.4
66		36.0	77.7	63.1
72		33.0	71.2	57.8
36	222	60.8	90.0	90.0
42		52.1	90.0	90.0
48		45.6	90.0	79.9
54		40.6	89.9	71.0
60		36.5	80.9	63.9
66		33.2	73.5	58.1
72		30.4	67.4	53.2
36	228	56.2	90.0	90.0
42		44.3	90.0	84.2
48		38.8	90.0	73.7
54		34.5	85.2	65.5
60		31.0	76.7	59.0
66		28.2	69.7	53.6
72		25.9	63.9	49.1
36	234	47.6	90.0	90.0
42		40.8	90.0	77.9
48		35.7	90.0	68.2
54		31.7	80.9	60.6
60		28.6	72.8	54.6
66		26.0	66.2	49.6
72		23.8	60.7	45.5
36	240	43.9	90.0	84.3
42		37.6	90.0	72.2
48		32.9	86.1	63.2
54		29.3	76.5	56.2
60		26.3	68.9	50.6
66		23.9	62.6	46.0
72		21.9	57.4	42.1
36	246	40.5	90.0	78.3
42		34.8	90.0	67.1
48		30.4	79.6	58.7
54		27.0	70.7	52.2
60		24.3	63.7	47.0
66		22.1	57.9	42.7
72		20.3	53.0	39.1

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
		MULLION 'M19' & 'M20'	MULLION 'M21' & 'M22'	MULLION 'M23' & 'M24'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	252	37.5	90.0	72.8
42		32.2	84.2	62.4
48		28.2	73.7	54.6
54		25.0	65.5	48.5
60		22.5	58.9	43.7
66		20.5	53.6	39.7
72		18.8	49.1	36.4
36	258	34.8	90.0	67.8
42		29.9	78.1	58.1
48		26.1	68.3	50.9
54		23.2	60.8	45.2
60		20.9	54.7	40.7
66		19.0	49.7	37.0
72		17.4	45.6	33.9
36	264	32.4	84.7	63.3
42		27.7	72.6	54.3
48		24.3	63.5	47.5
54		21.6	56.5	42.2
60		19.4	50.8	38.0
66		17.7	46.2	34.5
72		16.2	42.3	31.7
36	270	30.1	78.8	59.2
42		25.8	67.6	50.7
48		22.6	59.1	44.4
54		20.1	52.6	39.5
60		18.1	47.3	35.5
66		16.4	43.0	32.3
72		15.1	39.4	29.6
36	276	28.1	73.5	55.4
42		24.1	63.0	47.5
48		21.1	55.1	41.6
54		18.7	49.0	36.9
60		16.9	44.1	33.2
66		15.3	40.1	30.2
72		14.0	36.8	27.7
36	282	26.2	68.7	51.9
42		22.5	58.9	44.5
48		19.7	51.5	39.0
54		17.5	45.8	34.6
60		15.7	41.2	31.2
66		14.3	37.5	28.3
72		13.1	34.3	26.0

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
		MULLION 'M19' & 'M20'	MULLION 'M21' & 'M22'	MULLION 'M23' & 'M24'
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	288	24.5	64.2	48.8
42		21.0	55.1	41.8
48		18.4	48.2	36.6
54		16.4	42.8	32.5
60		14.7	38.5	29.3
66		13.4	35.0	26.6
72		12.3	32.1	24.4
36	294	23.0	60.2	45.8
42		19.7	51.6	39.3
48		17.2	45.1	34.4
54		15.3	40.1	30.6
60		13.8	36.1	27.5
66		12.5	32.8	25.0
72		11.5	30.1	22.9
36	300	21.6	56.4	43.1
42		18.5	48.4	37.0
48		16.2	42.3	32.4
54		14.4	37.6	28.8
60		12.9	33.9	25.9
66		11.8	30.8	23.5
72		10.8	28.2	21.6
36	306	20.3	53.0	40.7
42		17.4	45.4	34.8
48		15.2	39.8	30.5
54		13.5	35.3	27.1
60		12.2	31.8	24.4
66		11.0	28.9	22.2
72		10.1	26.5	20.3
36	312	19.1	49.8	38.4
42		16.3	42.7	32.9
48		14.3	37.4	28.8
54		12.7	33.2	25.6
60		11.4	29.9	23.0
66		10.4	27.2	20.9
72		9.5	24.9	19.2
36	318	17.9	46.9	36.9
42		15.4	40.2	31.7
48		13.5	35.2	27.7
54		12.0	31.3	24.6
60		10.8	28.2	22.2
66		9.8	25.6	20.1
72		9.0	23.5	18.5
36	324	16.9	44.2	35.6
42		14.5	37.9	30.5
48		12.7	33.2	26.7
54		11.3	29.5	23.7
60		10.1	26.5	21.3
66		9.2	24.1	19.4
72		8.5	22.1	17.8

*SLEEVE REINFORCEMENT @ WL + DL, 29" LONG

HEAVY DUTY HORIZONTAL MULLIONS (+/- PSF)		
MAX. WIDTH, W (in.)	Span'	EXT. (+) INT. (-)
72		130

REFER TO SECTION 4.12 FOR HEAVY DUTY MULLION DETAILS.

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM

HEAVY DUTY MULLION CAPACITY CHARTS

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: 08.24.21

DWG. BY: MS CHK. BY: HFN

SCALE: NTS

DWG. #: YKK280

SECTION: 4.12A

[PAGE 24 OF 72]

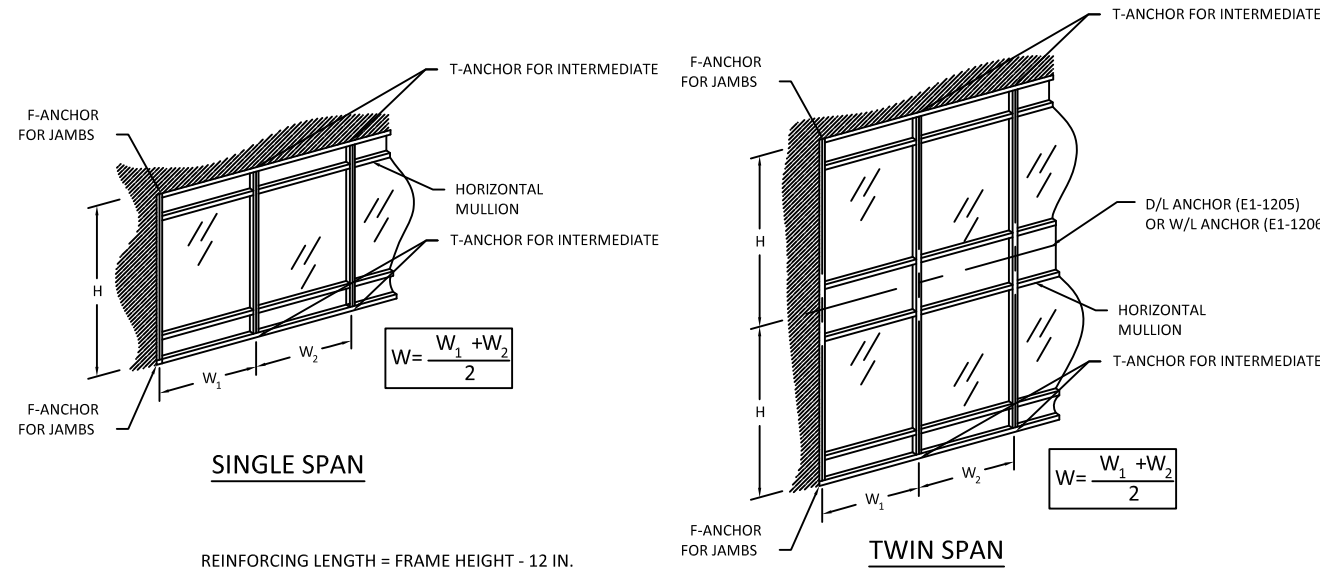
s:\projects\ykk_ap_america, inc\tdr-21-0820 - tdr submittal - revision series yhc 300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 1 thru 4 - cover, elev, vert. & horz. dtls.dwg 10/30/2021 7:19 PM

HEAVY DUTY MULLION CAPACITY CHARTS (HIGH PRESSURE)

NOTES

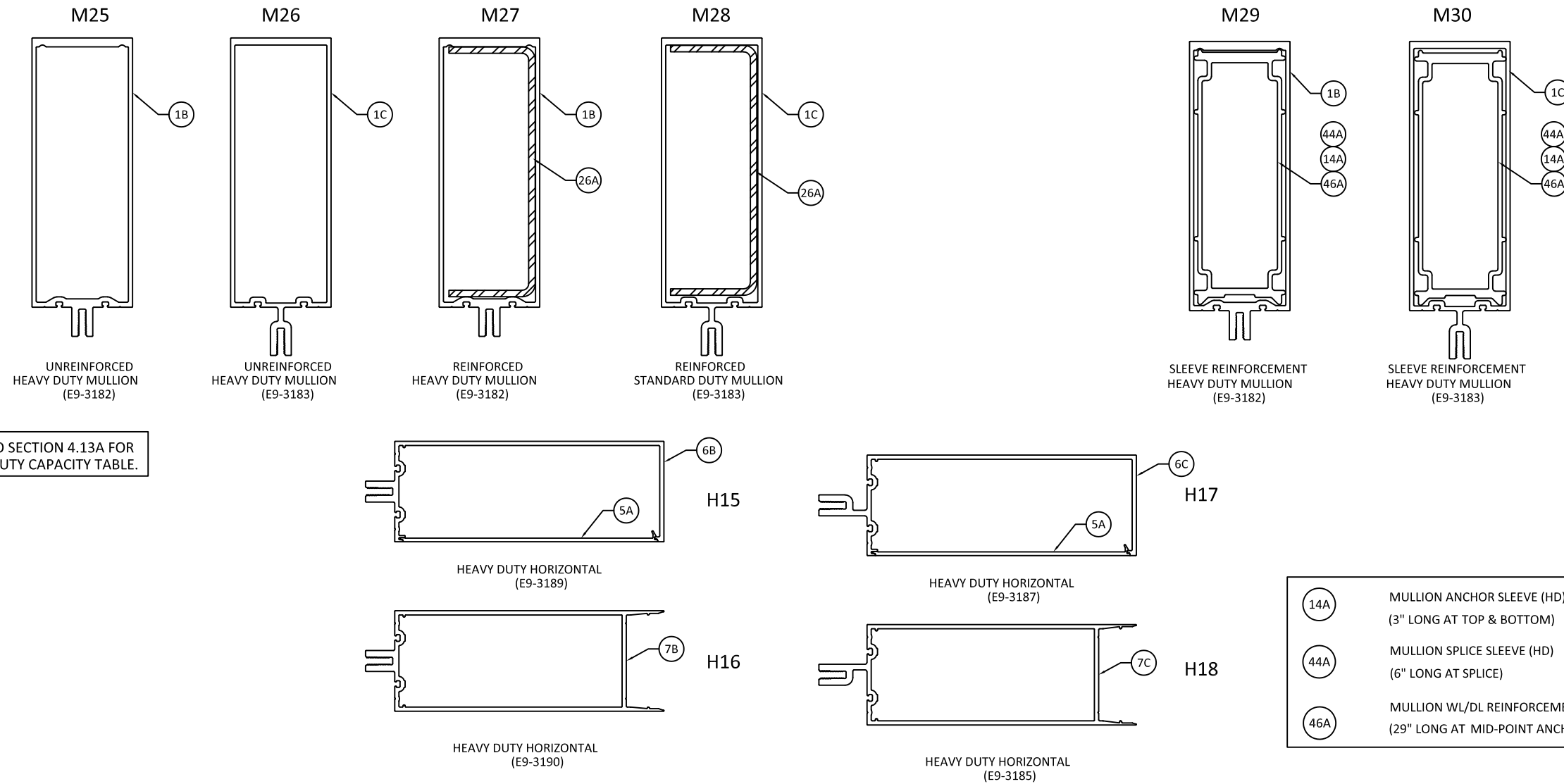
- DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION CAPACITY PER 2018 IBC, IRC SPECIFICATIONS
- SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.
- FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.
- WHEN PANEL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

- CASE 1: SINGLE SPAN WITH UNREINFORCED MULLION
 CASE 2: SINGLE SPAN WITH REINFORCED MULLION FULL HEIGHT
 CASE 3: TWIN SPAN WITH REINFORCED MULLION AT INTERMEDIATE SUPPORT ONLY



MULLIONS

SECTIONS @ F/T ANCHOR / SPLICE/WIND LOAD/ DEAD LOAD LOCATION



REFER TO SECTION 4.13A FOR HEAVY DUTY CAPACITY TABLE.

- 14A MULLION ANCHOR SLEEVE (HD)
(3" LONG AT TOP & BOTTOM)
- 44A MULLION SPLICE SLEEVE (HD)
(6" LONG AT SPLICE)
- 46A MULLION WL/DL REINFORCEMENT SLEEVE (HD)
(29" LONG AT MID-POINT ANCHOR)



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG
 CURTAIN WALL SYSTEM
 HEAVY DUTY MULLION
 CAPACITY 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: **08.24.21**

DWG. BY: MS	CHK. BY: HFN
--------------------	---------------------

SCALE: **NTS**

DWG. #: **YKK280**

SECTION:

4.13
 [PAGE 25 OF 72]

s:\projects\ykk.ap.america, inc.\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 1 thru 4 - cover, elev, vert. & horz. dtls.dwg
 10/30/2021 7:19 PM

HEAVY DUTY MULLION CAPACITY CHARTS (HIGH PRESSURES)



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	MULLION 'M25' & 'M26'	MULLION 'M27' & 'M28'	MULLION 'M29' & 'M30'
36	144	130.0	130.0	130.0
42		130.0	130.0	130.0
48		130.0	130.0	130.0
54		120.1	130.0	130.0
60		108.1	130.0	130.0
66		98.2	130.0	130.0
72		90.1	130.0	130.0
36	150	130.0	130.0	130.0
42		130.0	130.0	130.0
48		124.5	130.0	130.0
54		110.7	130.0	130.0
60		99.6	130.0	130.0
66		90.5	130.0	130.0
72		83.0	130.0	130.0
36	156	130.0	130.0	130.0
42		130.0	130.0	130.0
48		115.1	130.0	130.0
54		102.3	130.0	130.0
60		92.1	130.0	130.0
66		83.7	130.0	130.0
72		76.7	130.0	128.4
36	162	130.0	130.0	130.0
42		122.0	130.0	130.0
48		106.7	130.0	130.0
54		94.9	130.0	130.0
60		85.4	130.0	130.0
66		77.6	130.0	130.0
72		71.2	126.6	123.7
36	168	130.0	130.0	130.0
42		113.4	130.0	130.0
48		99.3	130.0	130.0
54		88.2	130.0	130.0
60		79.4	130.0	130.0
66		72.2	128.4	125.5
72		66.2	117.7	115.0
36	174	123.4	130.0	130.0
42		105.7	130.0	130.0
48		92.5	130.0	130.0
54		82.2	130.0	130.0
60		74.0	130.0	128.7
66		67.3	119.7	117.0
72		61.7	109.7	107.2

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	MULLION 'M25' & 'M26'	MULLION 'M27' & 'M28'	MULLION 'M29' & 'M30'
36	180	114.1	130.0	130.0
42		97.8	130.0	130.0
48		85.6	130.0	130.0
54		76.1	130.0	130.0
60		68.5	123.0	119.8
66		62.2	111.8	109.0
72		57.1	102.5	99.9
36	186	103.4	130.0	130.0
42		88.7	130.0	130.0
48		77.6	130.0	130.0
54		69.0	128.0	120.7
60		62.1	115.2	108.6
66		56.4	104.7	98.7
72		51.7	96.0	90.5
36	192	94.0	130.0	130.0
42		80.6	130.0	130.0
48		70.5	130.0	123.4
54		62.7	120.1	109.7
60		56.4	108.1	98.8
66		51.3	98.3	89.8
72		47.0	90.1	82.3
36	198	85.7	130.0	130.0
42		73.5	130.0	128.6
48		64.3	127.1	112.6
54		57.2	113.0	100.0
60		51.4	101.7	90.0
66		46.8	92.4	81.9
72		42.9	84.7	75.0
36	204	78.4	130.0	130.0
42		67.2	130.0	117.6
48		58.8	119.7	102.9
54		52.3	106.4	91.5
60		47.0	95.8	82.3
66		42.8	87.1	74.8
72		39.2	79.8	68.6
36	210	71.9	130.0	125.8
42		61.6	129.1	107.8
48		53.9	113.0	94.3
54		47.9	100.4	83.9
60		43.1	90.4	75.5
66		39.2	82.2	68.6
72		35.9	75.3	62.9

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	MULLION 'M25' & 'M26'	MULLION 'M27' & 'M28'	MULLION 'M29' & 'M30'
36	216	66.0	130.0	115.6
42		56.6	122.0	99.1
48		49.5	106.8	86.7
54		44.0	94.9	77.1
60		39.6	85.4	69.4
66		36.0	77.7	63.1
72		33.0	71.2	57.8
36	222	60.8	130.0	106.5
42		52.1	115.5	91.3
48		45.6	101.1	79.9
54		40.6	89.9	71.0
60		36.5	80.9	63.9
66		33.2	73.5	58.1
72		30.4	67.4	53.2
36	228	56.2	127.8	98.3
42		44.3	109.5	84.2
48		38.8	95.8	73.7
54		34.5	85.2	65.5
60		31.0	76.7	59.0
66		28.2	69.7	53.6
72		25.9	63.9	49.1
36	234	47.6	121.3	90.9
42		40.8	104.0	77.9
48		35.7	91.0	68.2
54		31.7	80.9	60.6
60		28.6	72.8	54.6
66		26.0	66.2	49.6
72		23.8	60.7	45.5
36	240	43.9	114.8	84.3
42		37.6	98.4	72.2
48		32.9	86.1	63.2
54		29.3	76.5	56.2
60		26.3	68.9	50.6
66		23.9	62.6	46.0
72		21.9	57.4	42.1
36	246	40.5	106.1	78.3
42		34.8	90.9	67.1
48		30.4	79.6	58.7
54		27.0	70.7	52.2
60		24.3	63.7	47.0
66		22.1	57.9	42.7
72		20.3	53.0	39.1

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	MULLION 'M25' & 'M26'	MULLION 'M27' & 'M28'	MULLION 'M29' & 'M30'
36	252	37.5	98.2	72.8
42		32.2	84.2	62.4
48		28.2	73.7	54.6
54		25.0	65.5	48.5
60		22.5	58.9	43.7
66		20.5	53.6	39.7
72		18.8	49.1	36.4
36	258	34.8	91.1	67.8
42		29.9	78.1	58.1
48		26.1	68.3	50.9
54		23.2	60.8	45.2
60		20.9	54.7	40.7
66		19.0	49.7	37.0
72		17.4	45.6	33.9
36	264	32.4	84.7	63.3
42		27.7	72.6	54.3
48		24.3	63.5	47.5
54		21.6	56.5	42.2
60		19.4	50.8	38.0
66		17.7	46.2	34.5
72		16.2	42.3	31.7
36	270	30.1	78.8	59.2
42		25.8	67.6	50.7
48		22.6	59.1	44.4
54		20.1	52.6	39.5
60		18.1	47.3	35.5
66		16.4	43.0	32.3
72		15.1	39.4	29.6
36	276	28.1	73.5	55.4
42		24.1	63.0	47.5
48		21.1	55.1	41.6
54		18.7	49.0	36.9
60		16.9	44.1	33.2
66		15.3	40.1	30.2
72		14.0	36.8	27.7
36	282	26.2	68.7	51.9
42		22.5	58.9	44.5
48		19.7	51.5	39.0
54		17.5	45.8	34.6
60		15.7	41.2	31.2
66		14.3	37.5	28.3
72		13.1	34.3	26.0

JAMB/MULLION LOAD CAPACITY (+/- PSF)				
NOMINAL DIMS.		CASE 1	CASE 2	CASE 3*
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	MULLION 'M25' & 'M26'	MULLION 'M27' & 'M28'	MULLION 'M29' & 'M30'
36	288	23.0	60.2	45.8
42		19.7	51.6	39.3
48		17.2	45.1	34.4
54		15.3	40.1	30.6
60		13.8	36.1	27.5
66		12.5	32.8	25.0
72		11.5	30.1	22.9
36	294	21.6	56.4	43.1
42		18.5	48.4	37.0
48		16.2	42.3	32.4
54		14.4	37.6	28.8
60		12.9	33.9	25.9
66		11.8	30.8	23.5
72		10.8	28.2	21.6
36	300	20.3	53.0	40.7
42		17.4	45.4	34.8
48		15.2	39.8	30.5
54		13.5	35.3	27.1
60		12.2	31.8	24.4
66		11.0	28.9	22.2
72		10.1	26.5	20.3
36	306	19.1	49.8	38.4
42		16.3	42.7	32.9
48		14.3	37.4	28.8
54		12.7	33.2	25.6
60		11.4	29.9	23.0
66		10.4	27.2	20.9
72		9.5	24.9	19.2
36	312	17.9	46.9	36.9
42		15.4	40.2	31.7
48		13.5	35.2	27.7
54		12.0	31.3	24.6
60		10.8	28.2	22.2
66		9.8	25.6	20.1
72		9.0	23.5	18.5
36	318	16.9	44.2	35.6
42		14.5	37.9	30.5
48		12.7	33.2	26.7
54		11.3	29.5	23.7
60		10.1	26.5	21.3
66		9.2	24.1	19.4
72		8.5	22.1	17.8
36	324	16.9	44.2	35.6
42		14.5	37.9	30.5
48		12.7	33.2	26.7
54		11.3	29.5	23.7
60		10.1	26.5	21.3
66		9.2	24.1	19.4
72		8.5	22.1	17.8

*SLEEVE REINFORCEMENT @ WL + DL, 29" LONG

HEAVY DUTY HORIZONTAL MULLIONS (+/- PSF)	
MAX. WIDTH, W (in.) 'Span'	EXT. (+) INT. (-)
72	130

REFER TO SECTION 4.13 FOR HEAVY DUTY MULLION DETAILS.

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM

HEAVY DUTY MULLION CAPACITY CHARTS

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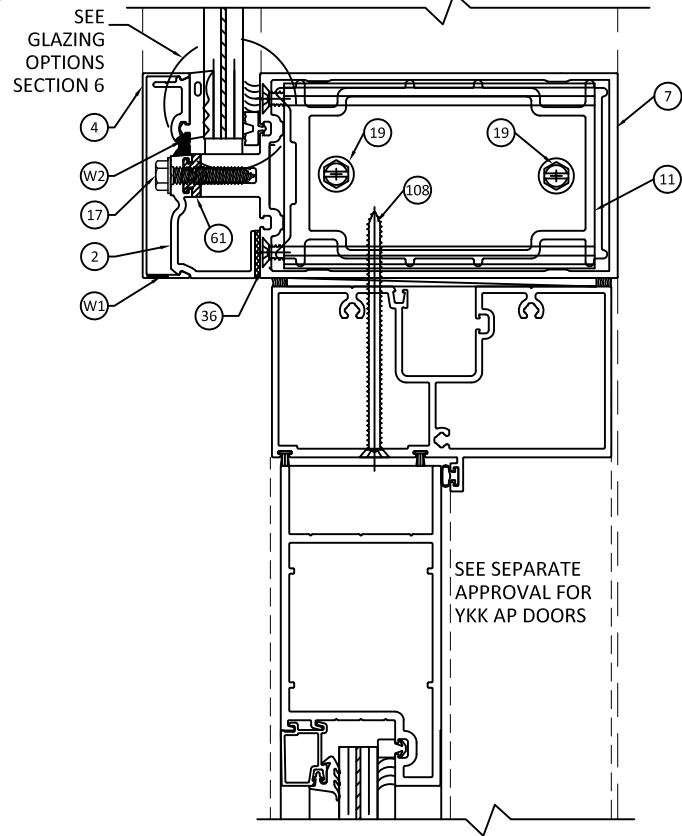
HERMES F. NORERO, P.E.
 TEXAS P.E. No. 118471
 BUILDING DROPS, INC.
 398 E. DANIA BEACH BLVD. # 338
 DANIA BEACH, FL 33004
 TBPE FIRM No. 13734

DATE:	08.24.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK280
SECTION:	4.13A

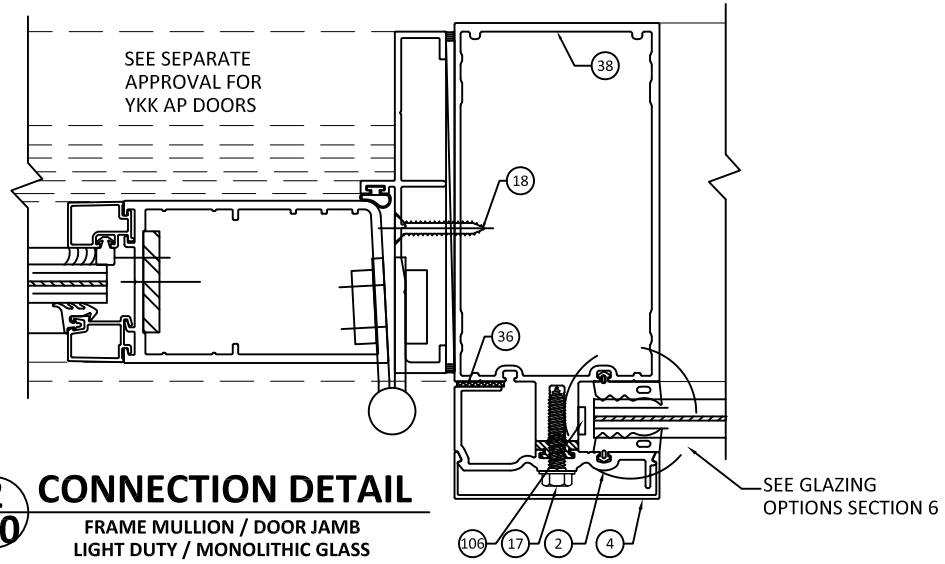
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LIGHT DUTY MULLION DOOR DETAILS

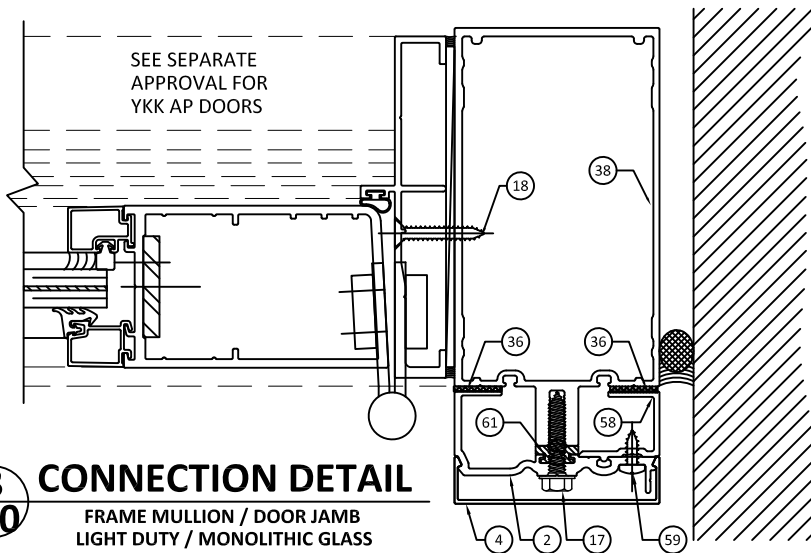
DOOR JAMB MULLION CAPACITY



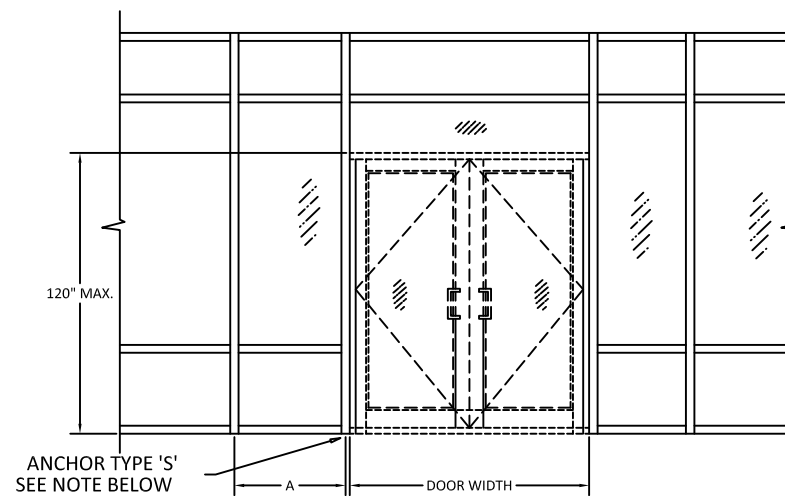
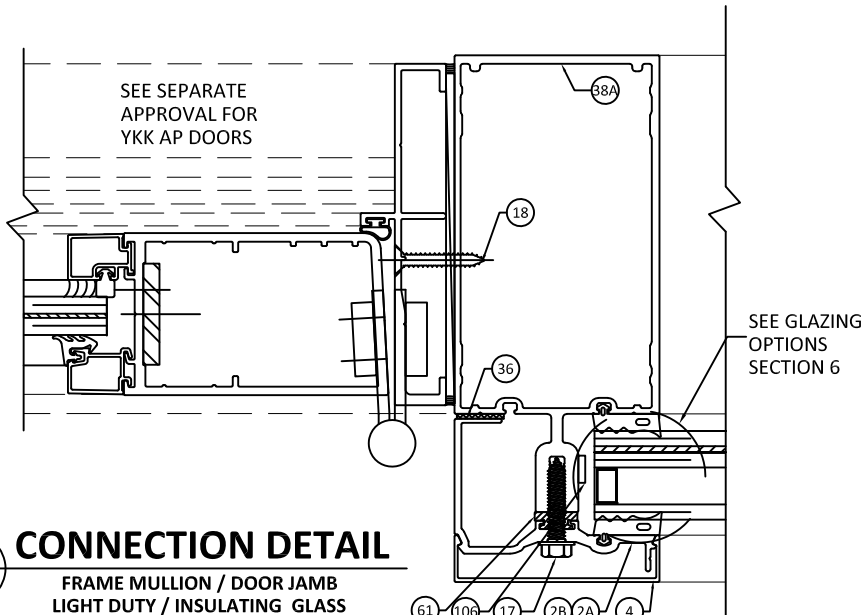
2
5.0 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
LIGHT DUTY / MONOLITHIC GLASS



3
5.0 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
LIGHT DUTY / MONOLITHIC GLASS



5
5.0 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
LIGHT DUTY / INSULATING GLASS

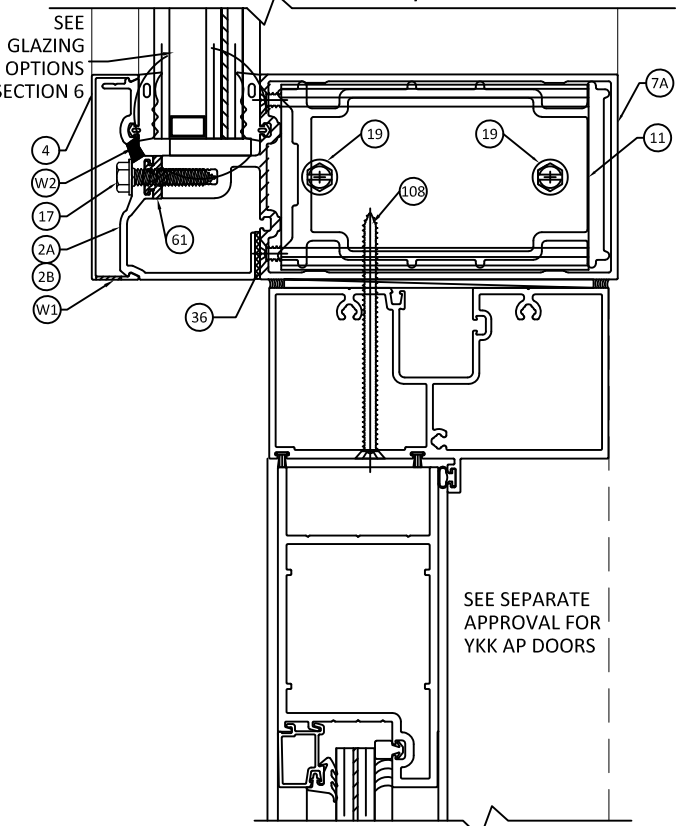


MAX. DOOR OPNG. WIDTH	A	DP (+/- PSF)
96"	30"	90.0
84"	38"	90.0
72"	46"	90.0

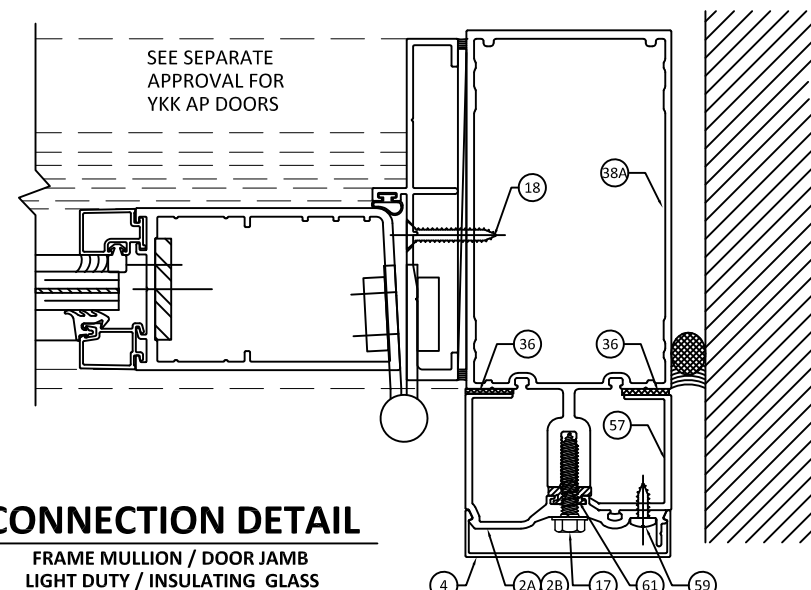
NOTE:

- FOR DOOR HEIGHT LESS THAN OR EQUAL TO 120" IN. USE ABOVE TABLE.
- DOORS SHALL BE UNDER SEPARATE APPROVAL.

4
5.0 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
LIGHT DUTY / INSULATING GLASS



6
5.0 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
LIGHT DUTY / INSULATING GLASS



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM
DOOR 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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TEXAS P.E. No 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

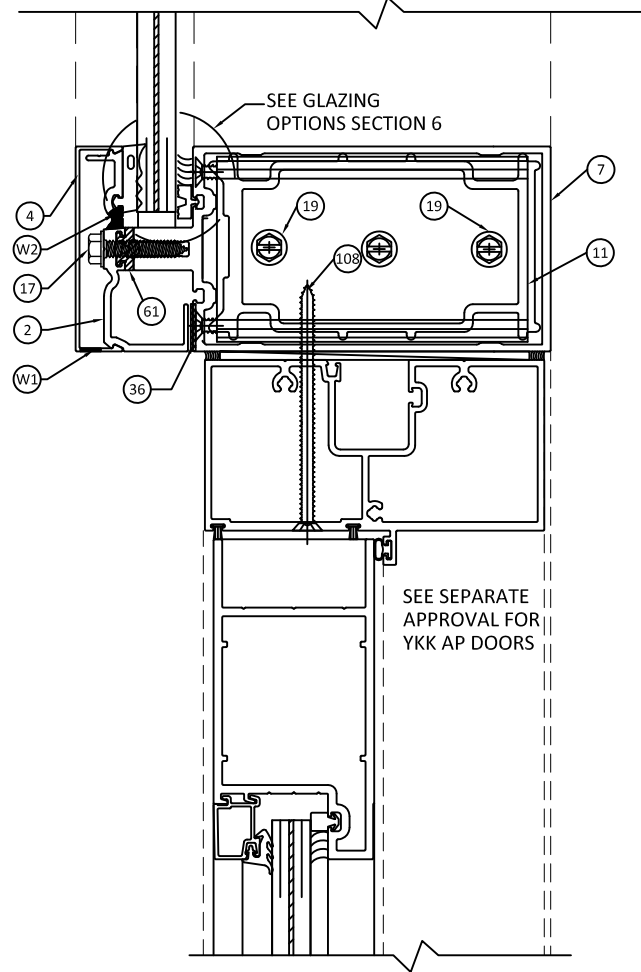
DATE: 08.24.21
DWG. BY: MS
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK280
SECTION:

5.0

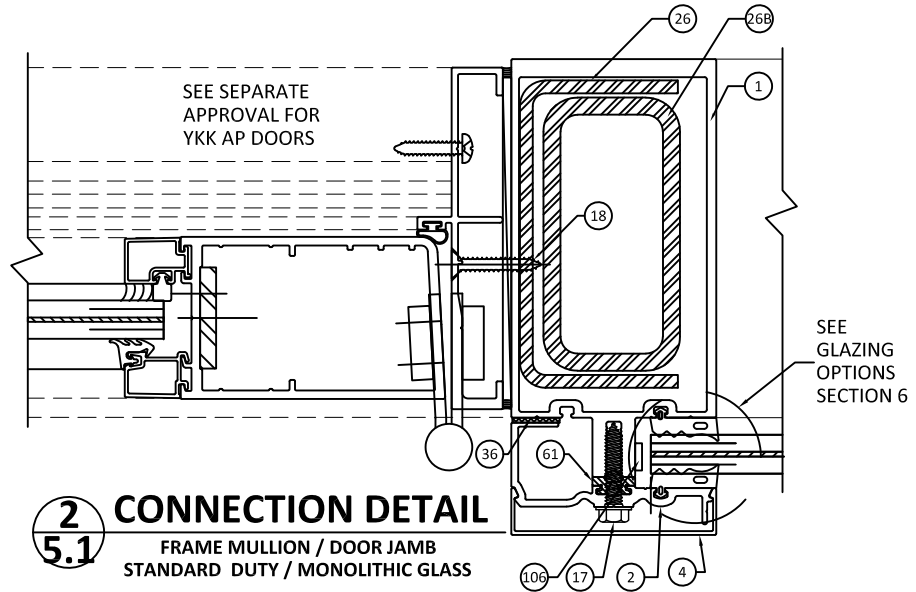
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STANDARD DUTY MULLION DOOR DETAILS (MONOLITHIC GLASS)

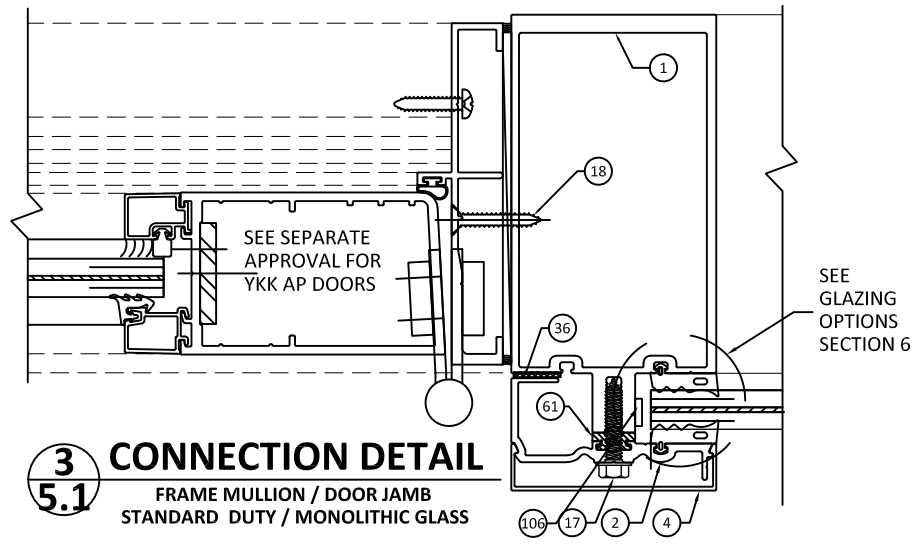
DOOR JAMB MULLION CAPACITY



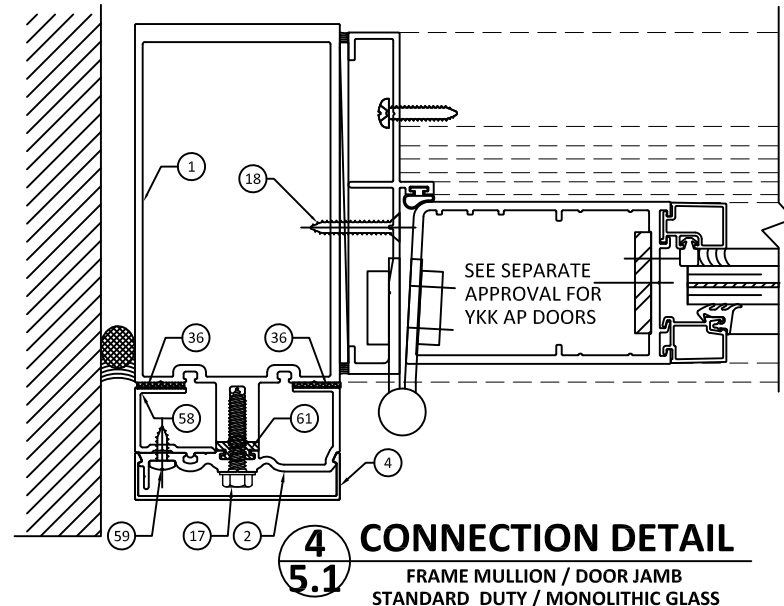
1
5.1 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
STANDARD DUTY / MONOLITHIC GLASS



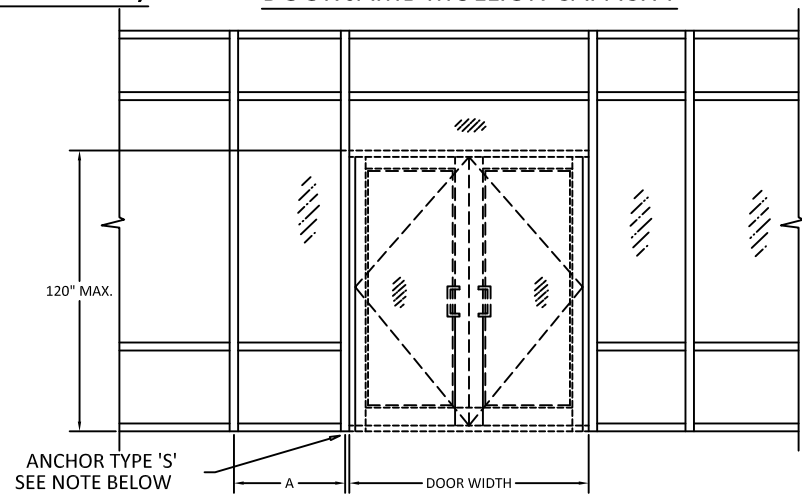
2
5.1 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
STANDARD DUTY / MONOLITHIC GLASS



3
5.1 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
STANDARD DUTY / MONOLITHIC GLASS



4
5.1 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
STANDARD DUTY / MONOLITHIC GLASS



MAX. DOOR OPNG. WIDTH	A	DP (+/- PSF)
96"	30"	90.0
84"	38"	90.0
72"	46"	90.0

NOTE:

- FOR DOOR HEIGHT LESS THAN OR EQUAL TO 120" IN. USE ABOVE TABLE.
- DOORS SHALL BE UNDER SEPARATE APPROVAL.



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM DOOR 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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TEXAS P.E. No. 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

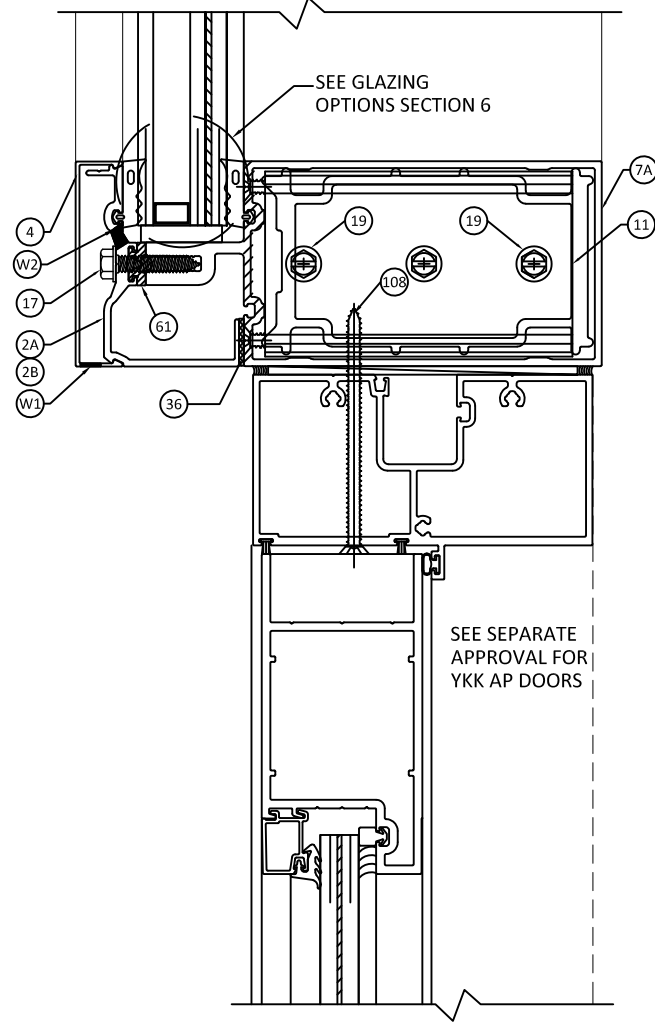
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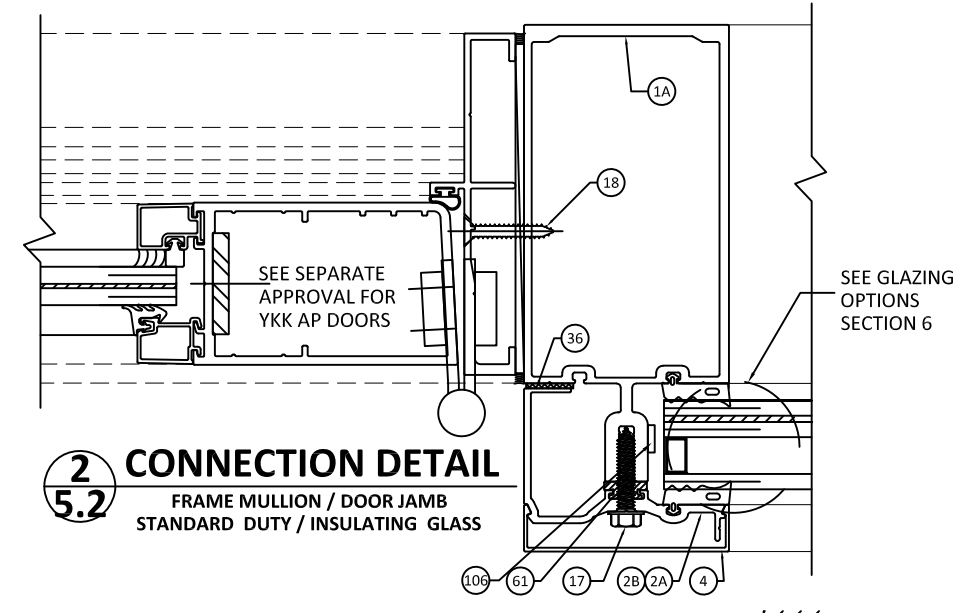
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[PAGE 28 OF 72]

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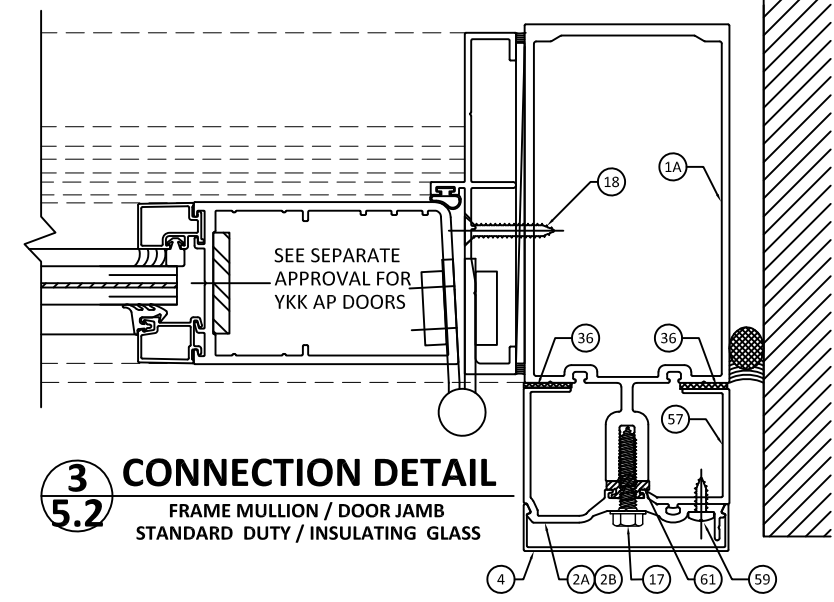
STANDARD DUTY MULLION DOOR DETAILS (INSULATING GLASS)



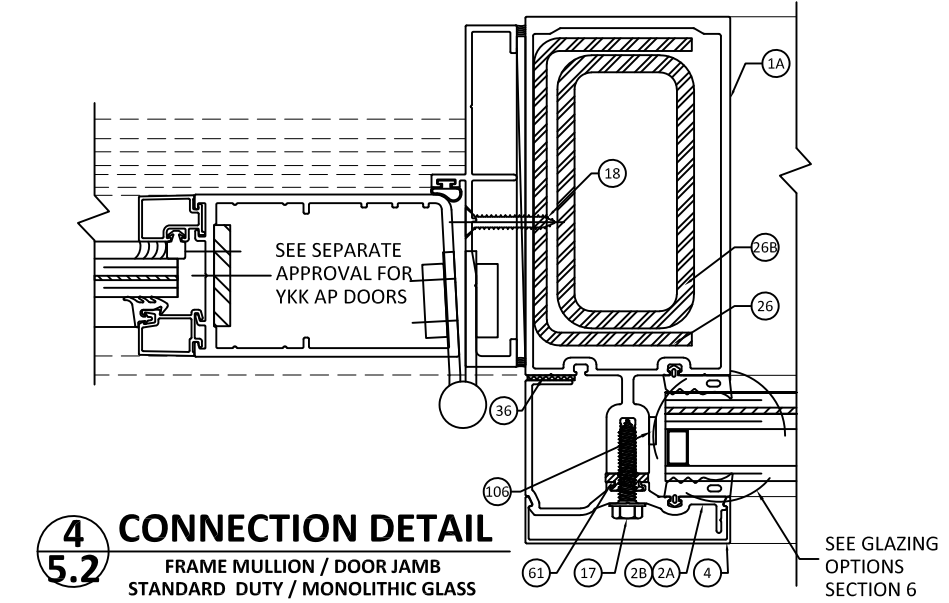
1
5.2 CONNECTION DETAIL
FRAME MULLION / DOOR HEAD
STANDARD DUTY / INSULATING GLASS



2
5.2 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
STANDARD DUTY / INSULATING GLASS

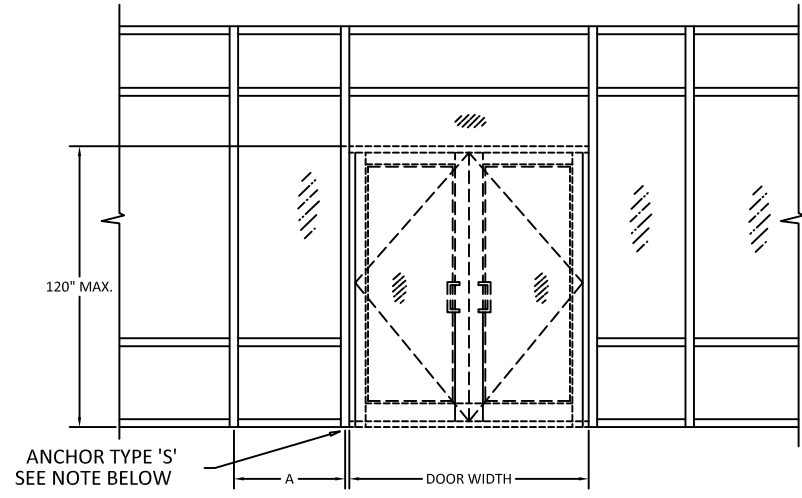


3
5.2 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
STANDARD DUTY / INSULATING GLASS



4
5.2 CONNECTION DETAIL
FRAME MULLION / DOOR JAMB
STANDARD DUTY / MONOLITHIC GLASS

DOOR JAMB MULLION CAPACITY



MAX. DOOR OPNG. WIDTH	A	DP (+/- PSF)
96"	30"	90.0
84"	38"	90.0
72"	46"	90.0

NOTE:

- FOR DOOR HEIGHT LESS THAN OR EQUAL TO 120" IN. USE ABOVE TABLE.
- DOORS SHALL BE UNDER SEPARATE APPROVAL.

CONCRETE AND METAL STRUCTURE NOT BY YKK AP AMERICA INC. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM
DOOR 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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398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

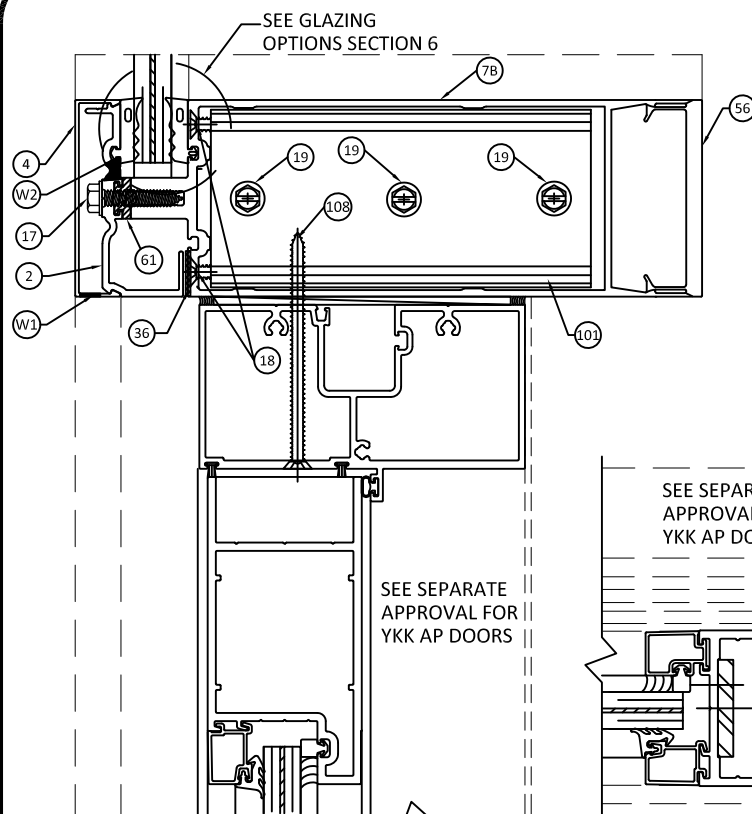
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DWG. BY: MS
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK280
SECTION:

5.2

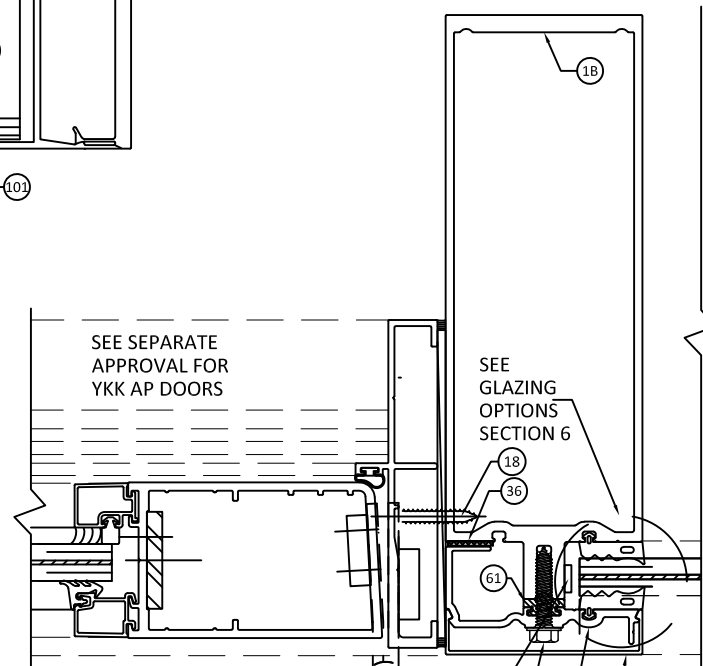
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HEAVY DUTY MULLION DOOR DETAILS

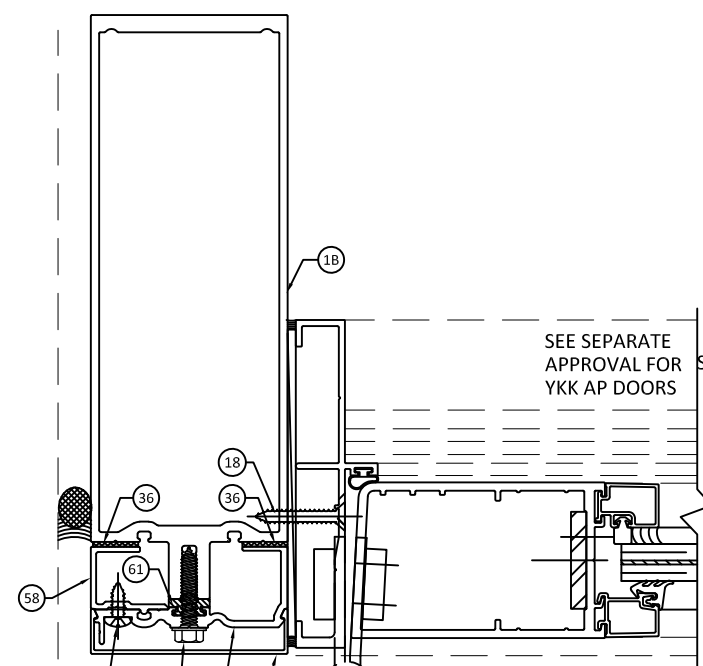
DOOR JAMB MULLION CAPACITY



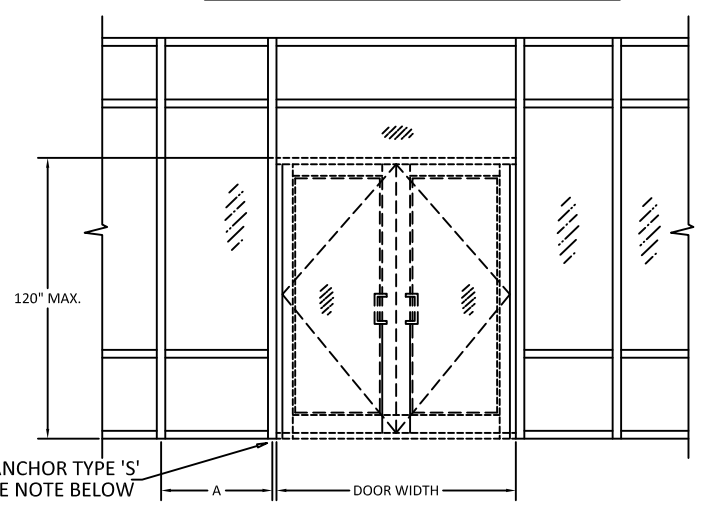
1
5.3 DOOR DETAIL
FRAME MULLION / DOOR JAMB
HEAVY DUTY / MONOLITHIC GLASS



3
5.3 DOOR DETAIL
FRAME MULLION / DOOR JAMB
HEAVY DUTY / MONOLITHIC GLASS



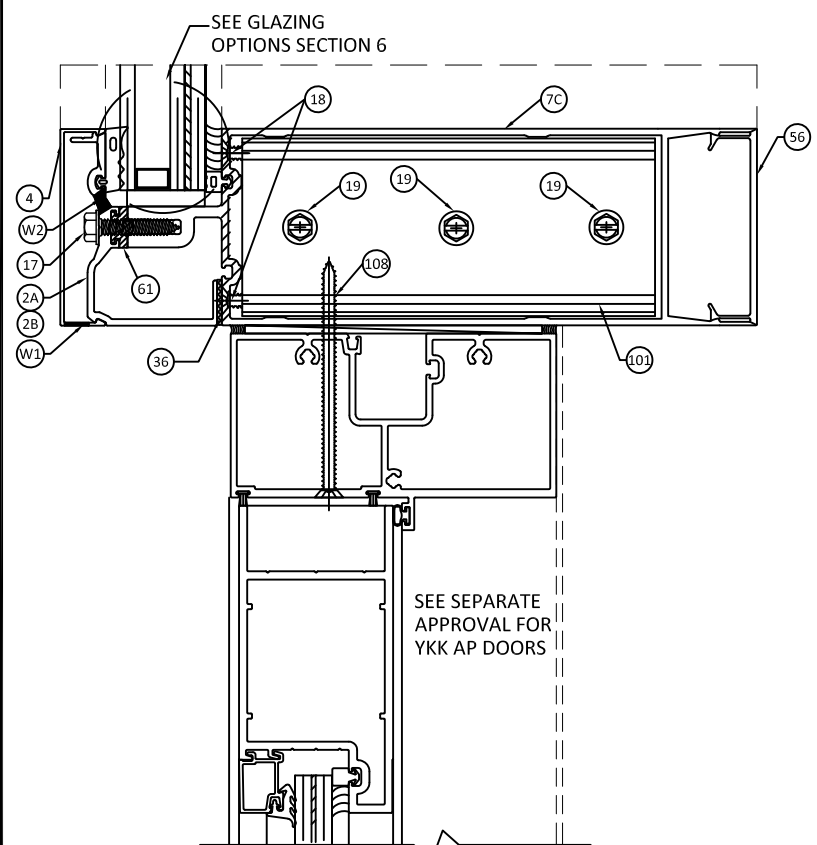
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FRAME MULLION / DOOR JAMB
HEAVY DUTY / MONOLITHIC GLASS



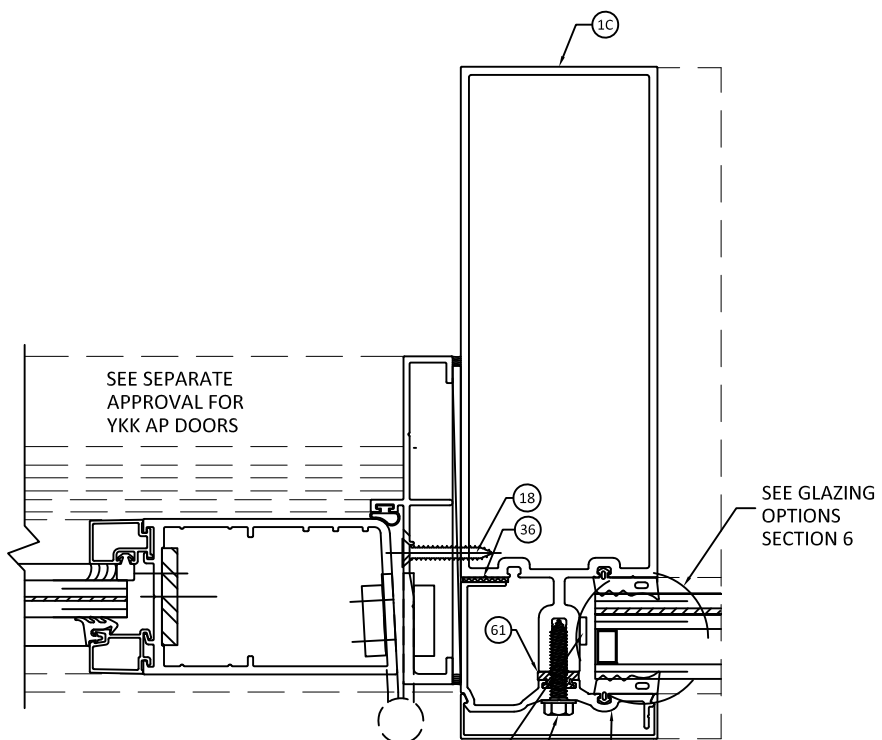
MAX. DOOR OPNG, WIDTH	A	DP (+/- PSF)
96"	30"	90.0
84"	38"	90.0
72"	46"	90.0

NOTE:

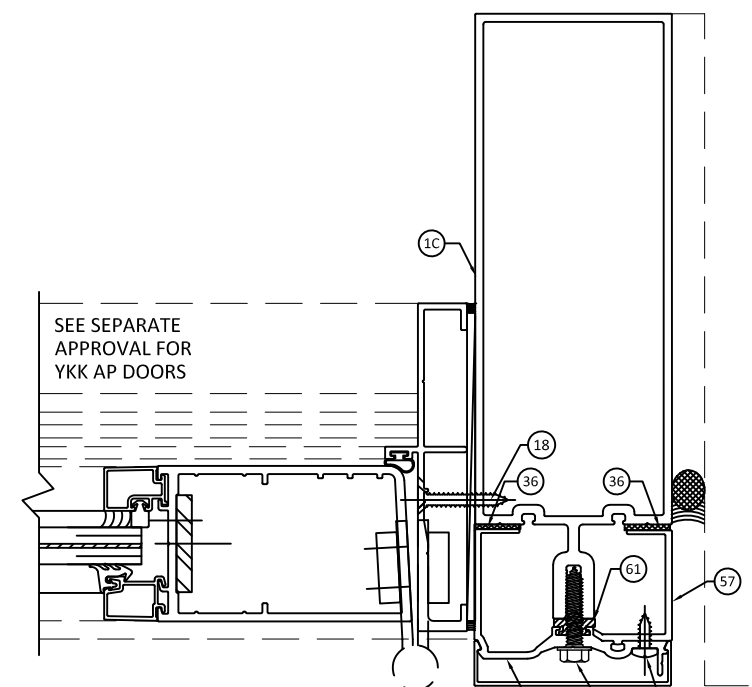
- FOR DOOR HEIGHT LESS THAN OR EQUAL TO 120" IN. USE ABOVE TABLE.
- DOORS SHALL BE UNDER SEPARATE APPROVAL.



6
5.3 DOOR DETAIL
FRAME MULLION / DOOR JAMB
HEAVY DUTY / INSULATING GLASS



7
5.3 DOOR DETAIL
FRAME MULLION / DOOR JAMB
HEAVY DUTY / INSULATING GLASS



8
5.3 DOOR DETAIL
FRAME MULLION / DOOR JAMB
HEAVY DUTY / INSULATING GLASS



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG
CURTAIN WALL SYSTEM
DOOR 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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TEXAS P.E. No. 118471
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPFE FIRM No. 13734

DATE: 08.24.21
DWG. BY: MS
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK280
SECTION:

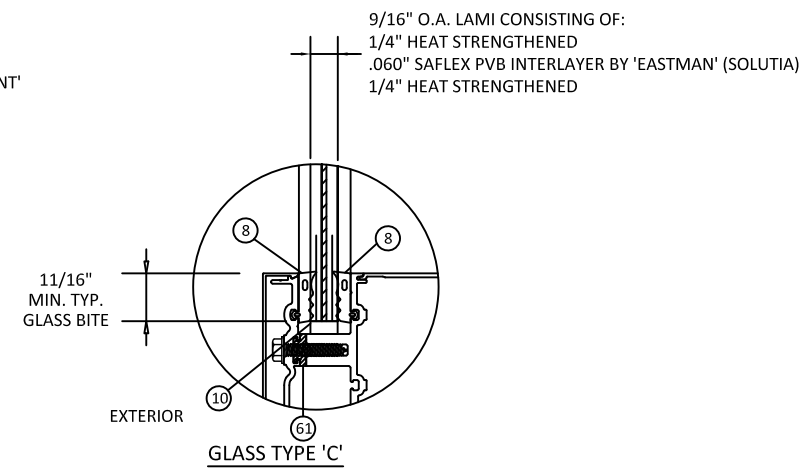
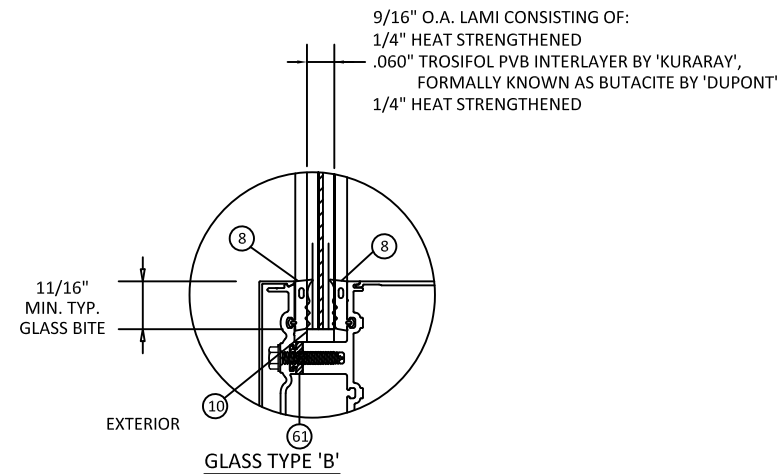
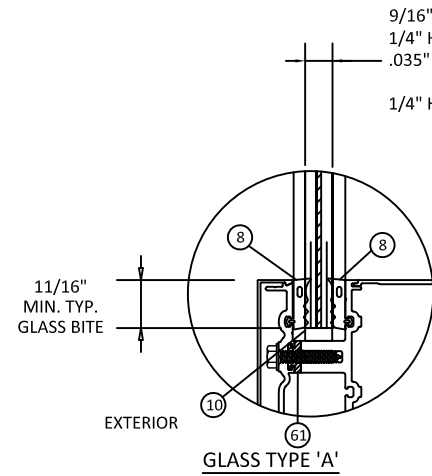
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MONOLITHIC SMALL MISSILE IMPACT GLASS OPTIONS

NOTES:

1. CHART VALUES PROVIDE MAXIMUM DESIGN PRESSURES ACCORDING TO ASTM E1300 FOR GIVEN GLASS DIMENSIONS 'a' AND 'b' (a > b), AND CH. 17 OF THE IBC FOR SIZES OTHER THAN TESTED
2. DO NOT EXCEED MULLION CAPACITY SELECTED OR ANCHOR CAPACITY IN DESIGN PRESSURE CHARTS

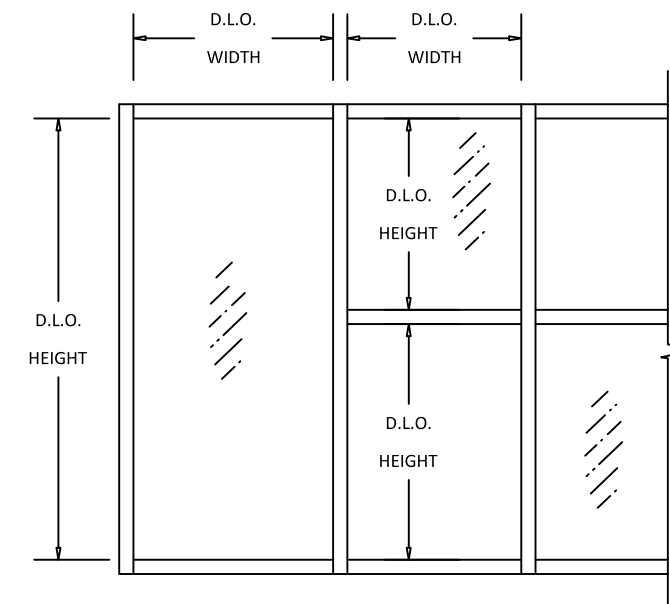
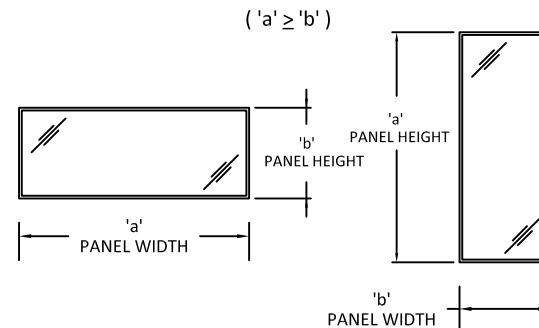


*** NOTE:**

1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE 2018 IBC FOR SIZES OTHER THAN TESTED.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
3. APPROVED SETTING BLOCKS SHALL BE USED AND TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36".
4. WHERE REQUIRED, TEMPERED GLASS IS REQUIRED TO BE USED TO COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CHAPTER 24 OF THE 2018 IBC.
5. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

REFER TO SHEETS 6.0A FOR MONOLITHIC SMALL MISSILE IMPACT GLASS LOAD TABLE

PANEL DIMENSIONS



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
GLAZING 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:	08.24.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK280
SECTION:	6.0

MONOLITHIC GLASS LOAD CAPACITY - S.M.I

GLASS LOAD CAPACITY (PSF)						
NOMINAL DIMS.		GLASS TYPES A & B		GLASS TYPES C		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	60	130.0	130.0	90.0	90.0	
30		130.0	130.0	90.0	90.0	
36		130.0	130.0	90.0	90.0	
39		130.0	130.0	90.0	90.0	
42		130.0	130.0	90.0	90.0	
48		130.0	130.0	90.0	90.0	
54		130.0	130.0	90.0	90.0	
60		123.5	123.5	85.5	85.5	
72		123.5	123.5	85.5	85.5	
78		123.5	123.5	85.5	85.5	
84		123.5	123.5	85.5	85.5	
24		66	130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36			130.0	130.0	90.0	90.0
39	130.0		130.0	90.0	90.0	
42	130.0		130.0	90.0	90.0	
48	130.0		130.0	90.0	90.0	
54	130.0		130.0	90.0	90.0	
60	123.5		123.5	85.5	85.5	
66	112.3		112.3	77.7	77.7	
72	112.3		112.3	77.7	77.7	
78	112.3		112.3	77.7	77.7	
84	77.7		77.7	-	-	
24	72		130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0	
39		130.0	130.0	90.0	90.0	
42		130.0	130.0	90.0	90.0	
48		130.0	130.0	90.0	90.0	
54		130.0	130.0	90.0	90.0	
60		123.5	123.5	85.5	85.5	
66		112.3	112.3	77.7	77.7	
72		102.9	102.9	71.3	71.3	
78		71.3	71.3	-	-	
84		71.3	71.3	-	-	

GLASS LOAD CAPACITY (PSF)						
NOMINAL DIMS.		GLASS TYPES A & B		GLASS TYPES C		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	78	130.0	130.0	90.0	90.0	
30		130.0	130.0	90.0	90.0	
36		130.0	130.0	90.0	90.0	
39		130.0	130.0	90.0	90.0	
42		130.0	130.0	90.0	90.0	
48		130.0	130.0	90.0	90.0	
54		130.0	130.0	90.0	90.0	
60		123.5	123.5	85.5	85.5	
66		112.3	112.3	77.7	77.7	
72		71.3	71.3	-	-	
78		65.8	65.8	-	-	
84		65.8	65.8	-	-	
24		84	130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36	130.0		130.0	90.0	90.0	
39	130.0		130.0	90.0	90.0	
42	130.0		130.0	90.0	90.0	
48	130.0		130.0	90.0	90.0	
54	130.0		130.0	90.0	90.0	
60	123.5		123.5	85.5	85.5	
66	77.7		77.7	-	-	
72	71.3		71.3	-	-	
78	65.8		65.8	-	-	
24	90		130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36			130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0	
42		130.0	130.0	90.0	90.0	
48		130.0	130.0	90.0	90.0	
54		130.0	130.0	90.0	90.0	
60		85.5	85.5	-	-	
66		77.7	77.7	-	-	
72		71.3	71.3	-	-	
24		94.5	130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36			130.0	130.0	90.0	90.0
39			130.0	130.0	90.0	90.0
42	130.0		130.0	90.0	90.0	
48	130.0		130.0	90.0	90.0	
54	130.0		130.0	90.0	90.0	
57	130.0		130.0	90.0	90.0	
60	85.5		85.5	-	-	
66	77.7		77.7	-	-	
72	71.3		71.3	-	-	

GLASS LOAD CAPACITY (PSF)						
NOMINAL DIMS.		GLASS TYPES A & B		GLASS TYPES C		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	102	130.0	130.0	90.0	90.0	
30		130.0	130.0	90.0	90.0	
36		130.0	130.0	90.0	90.0	
39		130.0	130.0	90.0	90.0	
42		130.0	130.0	90.0	90.0	
48		130.0	130.0	90.0	90.0	
54		90.0	90.0	-	-	
60		85.5	85.5	-	-	
66		77.7	77.7	-	-	
24		108	130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36			130.0	130.0	90.0	90.0
39			130.0	130.0	90.0	90.0
42			130.0	130.0	90.0	90.0
48	130.0		130.0	90.0	90.0	
54	90.0		90.0	-	-	
60	85.5		85.5	-	-	
24	114		130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36			130.0	130.0	90.0	90.0
39			130.0	130.0	90.0	90.0
42			130.0	130.0	90.0	90.0
48			90.0	90.0	-	-
54		90.0	90.0	-	-	
60		85.5	85.5	-	-	
24		120	130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36			130.0	130.0	90.0	90.0
39			130.0	130.0	90.0	90.0
42			130.0	130.0	90.0	90.0
48			90.0	90.0	-	-
54	90.0		90.0	-	-	
60	85.5		85.5	-	-	
24	120		130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36			130.0	130.0	90.0	90.0
39			130.0	130.0	90.0	90.0
42			130.0	130.0	90.0	90.0
48			90.0	90.0	-	-
54		90.0	90.0	-	-	
60		85.5	85.5	-	-	
57		90.0	90.0	-	-	

REFER TO SECTION 6.0 FOR MONOLITHIC SMALL MISSILE IMPACT GLAZING DETAILS.

D.L.O. WIDTH = PANEL WIDTH - 3"
D.L.O. HEIGHT = PANEL HEIGHT - 6"



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM

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

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: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

SECTION:
6.0A

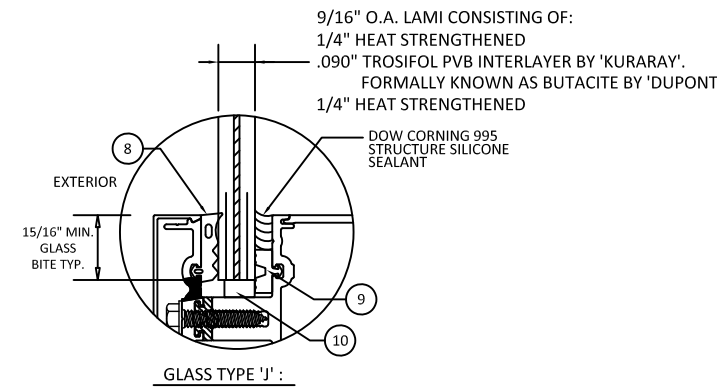
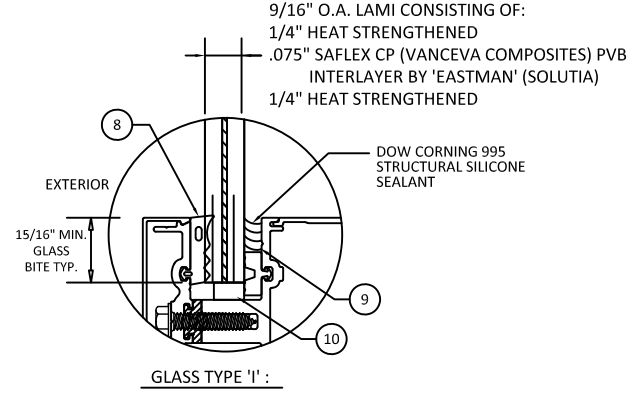
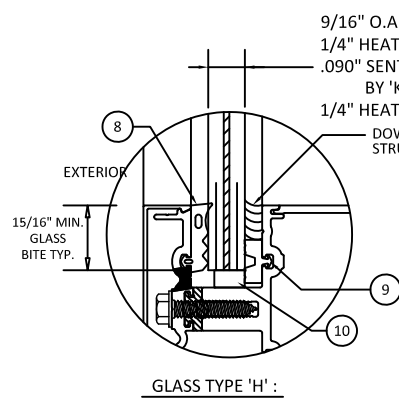
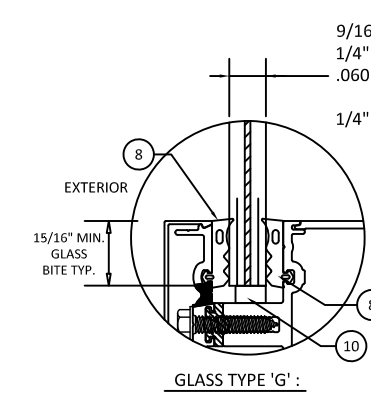
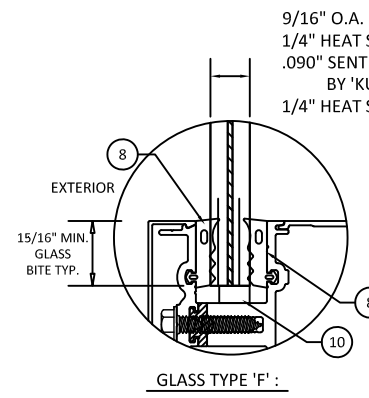
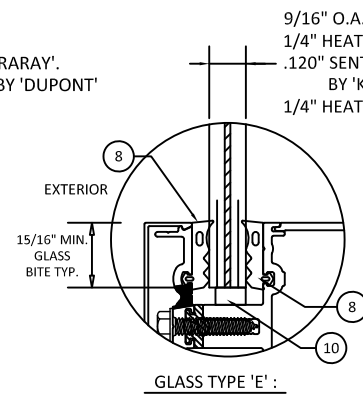
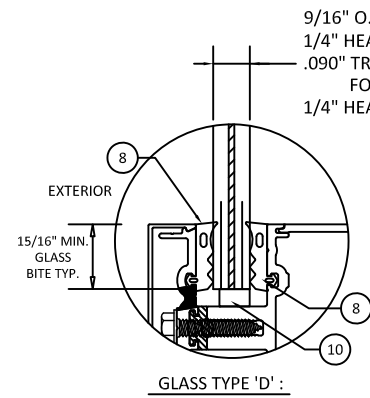
[PAGE 32 OF 72]

10/28/2021 9:59 PM
s:\projects\ykk_ap_america, inc.\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 5 & 6 - door & glazing dtls.dwg

MONOLITHIC LARGE MISSILE 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 CH. 17 OF THE IBC FOR SIZES OTHER THAN TESTED
2. DO NOT EXCEED MULLION CAPACITY SELECTED OR ANCHOR CAPACITY IN DESIGN PRESSURE CHARTS

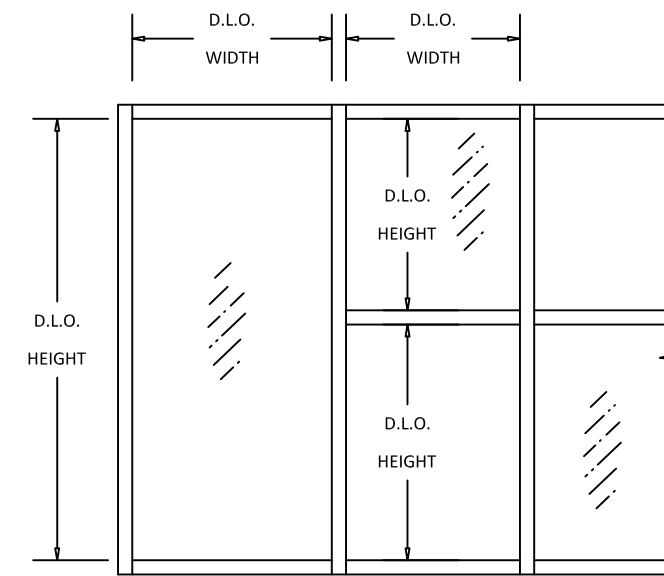
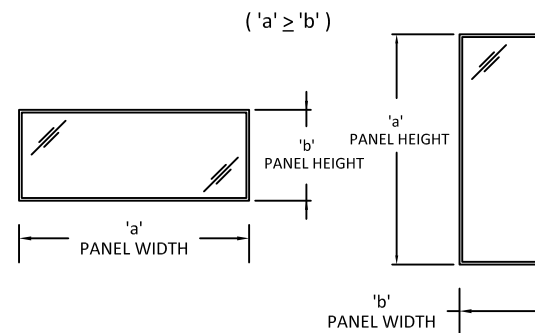


* NOTE:

1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE 2018 IBC FOR SIZES OTHER THAN TESTED.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
3. APPROVED SETTING BLOCKS SHALL BE USED AND TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36".
4. WHERE REQUIRED, TEMPERED GLASS IS REQUIRED TO BE USED TO COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CHAPTER 24 OF THE 2018 IBC.
5. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

REFER TO SECTION 6.1A FOR MONOLITHIC LARGE MISSILE IMPACT GLASS LOAD TABLE

PANEL DIMENSIONS



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG
CURTAIN WALL SYSTEM
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

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: 08.24.21

DWG. BY: MS

CHK. BY: HFN

SCALE: NTS

DWG. #: YKK280

SECTION:

6.1

MONOLITHIC GLASS LOAD CAPACITY - L.M.I.



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM
GLASS CAPACITY CHARTS
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: 08.24.21
DWG. BY: MS
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK280
SECTION:

6.1A

GLASS LOAD CAPACITY (PSF)						
NOMINAL DIMS.		GLASS TYPES 'E & F'		GLASS TYPES 'H' & 'I'		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	90	90.0	90.0	130.0	130.0	
30		90.0	90.0	130.0	130.0	
36		90.0	90.0	130.0	130.0	
39		90.0	90.0	130.0	130.0	
42		90.0	90.0	130.0	130.0	
48		90.0	90.0	130.0	130.0	
54		90.0	90.0	130.0	130.0	
60		85.5	85.5	123.5	123.5	
66		85.5	85.5	123.5	123.5	
72		71.3	71.3	-	-	
24		94.5	90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42	90.0		90.0	130.0	130.0	
48	90.0		90.0	130.0	130.0	
54	90.0		90.0	130.0	130.0	
60	85.5		85.5	-	-	
66	77.7		77.7	-	-	
72	71.3		71.3	-	-	
24	102		90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0	
48		90.0	90.0	130.0	130.0	
54		90.0	90.0	-	-	
60		85.5	85.5	-	-	
66		77.7	77.7	-	-	
24		108	90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42			90.0	90.0	130.0	130.0
48	90.0		90.0	130.0	130.0	
54	90.0		90.0	-	-	
60	85.5		85.5	-	-	
66	77.7		77.7	-	-	
24	114		90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42			90.0	90.0	130.0	130.0
48		90.0	90.0	130.0	130.0	
54		90.0	90.0	-	-	
60		85.5	85.5	-	-	
66		77.7	77.7	-	-	
24		120	90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42			90.0	90.0	130.0	130.0
48	90.0		90.0	130.0	130.0	
54	90.0		90.0	130.0	130.0	
60	85.5		85.5	123.5	123.5	
66	77.7		77.7	-	-	
72	71.3		71.3	-	-	
78	65.8		65.8	-	-	

GLASS LOAD CAPACITY (PSF)						
NOMINAL DIMS.		GLASS TYPES 'E & F'		GLASS TYPES 'H' & 'I'		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	60	90.0	90.0	130.0	130.0	
30		90.0	90.0	130.0	130.0	
36		90.0	90.0	130.0	130.0	
39		90.0	90.0	130.0	130.0	
42		90.0	90.0	130.0	130.0	
48		90.0	90.0	130.0	130.0	
54		90.0	90.0	130.0	130.0	
60		85.5	85.5	123.5	123.5	
66		85.5	85.5	123.5	123.5	
72		85.5	85.5	123.5	123.5	
78		85.5	85.5	123.5	123.5	
84		85.5	85.5	123.5	123.5	
24		66	90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36	90.0		90.0	130.0	130.0	
39	90.0		90.0	130.0	130.0	
42	90.0		90.0	130.0	130.0	
48	90.0		90.0	130.0	130.0	
54	90.0		90.0	130.0	130.0	
60	85.5		85.5	123.5	123.5	
66	77.7		77.7	112.3	112.3	
72	77.7		77.7	112.3	112.3	
78	77.7		77.7	112.3	112.3	
84	77.7		77.7	-	-	
24	72		90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0	
39		90.0	90.0	130.0	130.0	
42		90.0	90.0	130.0	130.0	
48		90.0	90.0	130.0	130.0	
54		90.0	90.0	130.0	130.0	
60		85.5	85.5	123.5	123.5	
66		77.7	77.7	112.3	112.3	
72		71.3	71.3	-	-	
78		71.3	71.3	-	-	
84		71.3	71.3	-	-	
24		78	90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36	90.0		90.0	130.0	130.0	
39	90.0		90.0	130.0	130.0	
42	90.0		90.0	130.0	130.0	
48	90.0		90.0	130.0	130.0	
54	90.0		90.0	130.0	130.0	
60	85.5		85.5	123.5	123.5	
66	77.7		77.7	112.3	112.3	
72	71.3		71.3	-	-	
78	65.8		65.8	-	-	
84	65.8		65.8	-	-	
24	84		90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36		90.0	90.0	130.0	130.0	
39		90.0	90.0	130.0	130.0	
42		90.0	90.0	130.0	130.0	
48		90.0	90.0	130.0	130.0	
54		90.0	90.0	130.0	130.0	
60		85.5	85.5	123.5	123.5	
66		77.7	77.7	-	-	
72		71.3	71.3	-	-	
78		65.8	65.8	-	-	

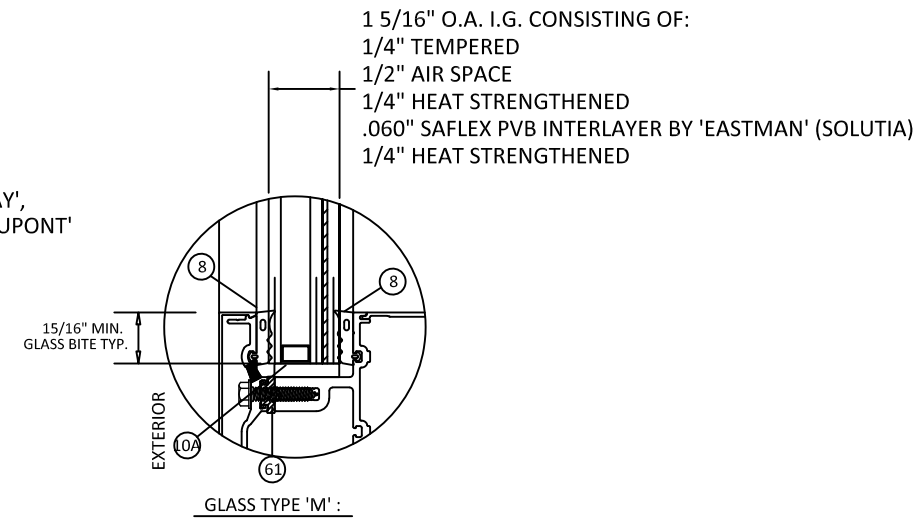
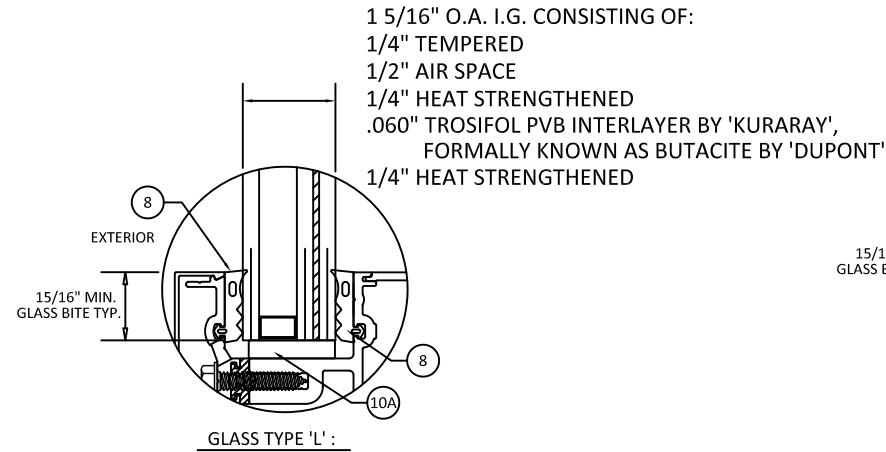
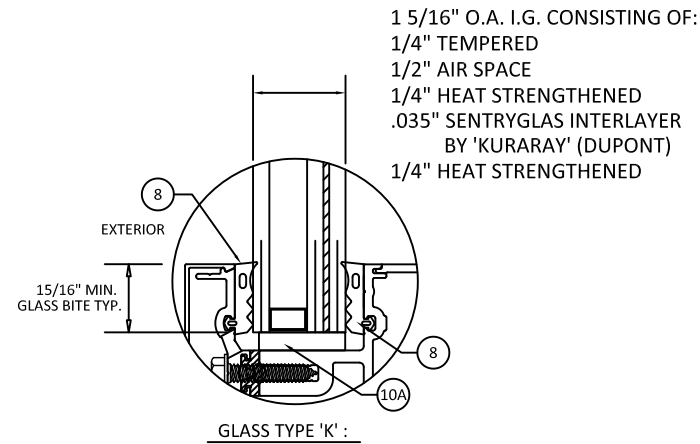
GLASS LOAD CAPACITY (PSF)								
NOMINAL DIMS.		GLASS TYPE 'D'		GLASS TYPE 'G'		GLASS TYPES 'J'		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	84	45.0	45.0	55.0	55.0	65.0	65.0	
30		45.0	45.0	55.0	55.0	65.0	65.0	
36		45.0	45.0	55.0	55.0	65.0	65.0	
39		45.0	45.0	55.0	55.0	65.0	65.0	
42		45.0	45.0	55.0	55.0	65.0	65.0	
48		-	-	55.0	55.0	65.0	65.0	
54		-	-	55.0	55.0	65.0	65.0	
60		-	-	52.3	52.3	61.8	61.8	
24		90	45.0	45.0	55.0	55.0	65.0	65.0
30			45.0	45.0	55.0	55.0	65.0	65.0
36			45.0	45.0	55.0	55.0	65.0	65.0
39			45.0	45.0	55.0	55.0	65.0	65.0
42			-	-	55.0	55.0	65.0	65.0
48			-	-	55.0	55.0	65.0	65.0
54	-		-	55.0	55.0	65.0	65.0	
60	-		-	52.3	52.3	61.8	61.8	
24	94.5		45.0	45.0	55.0	55.0	65.0	65.0
30			45.0	45.0	55.0	55.0	65.0	65.0
36			45.0	45.0	55.0	55.0	65.0	65.0
39			-	-	55.0	55.0	65.0	65.0
42			-	-	55.0	55.0	65.0	65.0
48			-	-	55.0	55.0	65.0	65.0
54		-	-	55.0	55.0	65.0	65.0	
60		-	-	55.0	55.0	65.0	65.0	
24		102	45.0	45.0	55.0	55.0	65.0	65.0
30			45.0	45.0	55.0	55.0	65.0	65.0
36			-	-	55.0	55.0	65.0	65.0
39			-	-	55.0	55.0	65.0	65.0
42			-	-	55.0	55.0	65.0	65.0
48			-	-	55.0	55.0	65.0	65.0
54	-		-	55.0	55.0	65.0	65.0	
60	-		-	55.0	55.0	65.0	65.0	
24	108		45.0	45.0	55.0	55.0	65.0	65.0
30			45.0	45.0	55.0	55.0	65.0	65.0
36			-	-	55.0	55.0	65.0	65.0
39			-	-	55.0	55.0	65.0	65.0
42			-	-	55.0	55.0	65.0	65.0
48			-	-	55.0	55.0	65.0	65.0
54		-	-	55.0	55.0	65.0	65.0	
60		-	-	55.0	55.0	65.0	65.0	
24		114	45.0	45.0	55.0	55.0	65.0	65.0
30			45.0	45.0	55.0	55.0	65.0	65.0
36			-	-	55.0	55.0	65.0	65.0
39			-	-	55.0	55.0	65.0	65.0
42			-	-	55.0	55.0	65.0	65.0
48			-	-	55.0	55.0	65.0	65.0
54	-		-	55.0	55.0	65.0	65.0	
60	-		-	55.0	55.0	65.0	65.0	
24	120		45.0	45.0	55.0	55.0	65.0	65.0
30			45.0	45.0	55.0	55.0	65.0	65.0
36			-	-	55.0	55.0	65.0	65.0
39			-	-	55.0	55.0	65.0	65.0
42			-	-	55.0	55.0	65.0	65.0

GLASS LOAD CAPACITY (PSF)								
NOMINAL DIMS.		GLASS TYPE 'D'		GLASS TYPE 'G'		GLASS TYPES 'J'		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	60	45.0	45.0	55.0	55.0	65.0	65.0	
30		45.0	45.0	55.0	55.0	65.0	65.0	
36		45.0	45.0	55.0	55.0	65.0	65.0	
39		45.0	45.0	55.0	55.0	65.0	65.0	
42		45.0	45.0	55.0	55.0	65.0	65.0	
48		42.2	42.2	55.0	55.0	65.0	65.0	
54		37.5	37.5	55.0	55.0	65.0	65.0	
60		33.8	33.8	52.3	52.3	61.8	61.8	
66		-	-	52.3	52.3	61.8	61.8	
72		-	-	52.3	52.3	61.8	61.8	
78		-	-	52.3	52.3	61.8	61.8	
84		-	-	52.3	52.3	61.8	61.8	
24		66	45.0	45.0	55.0	55.0	65.0	65.0
30			45.0	45.0	55.0	55.0	65.0	65.0
36	45.0		45.0	55.0	55.0	65.0	65.0	
39	45.0		45.0	55.0	55.0	65.0	65.0	
42	45.0		45.0	55.0	55.0	65.0	65.0	
48	42.2		42.2	55.0	55.0	65.0	65.0	
54	37.5		37.5	55.0	55.0	65.0	65.0	
60	-		-	52.3	52.3	61.8	61.8	
66	-		-	47.5	47.5	56.1	56.1	
72	-		-	47.5	47.5	56.1	56.1	
78	-		-	47.5	47.5	56.1	56.1	

INSULATING SMALL MISSILE IMPACT GLASS OPTIONS

NOTES:

- CHART VALUES PROVIDE MAXIMUM DESIGN PRESSURES ACCORDING TO ASTM E1300 FOR GIVEN GLASS DIMENSIONS 'a' AND 'b' ($a \geq b$), AND CH. 17 OF THE IBC FOR SIZES OTHER THAN TESTED
- DO NOT EXCEED MULLION CAPACITY SELECTED OR ANCHOR CAPACITY IN DESIGN PRESSURE CHARTS



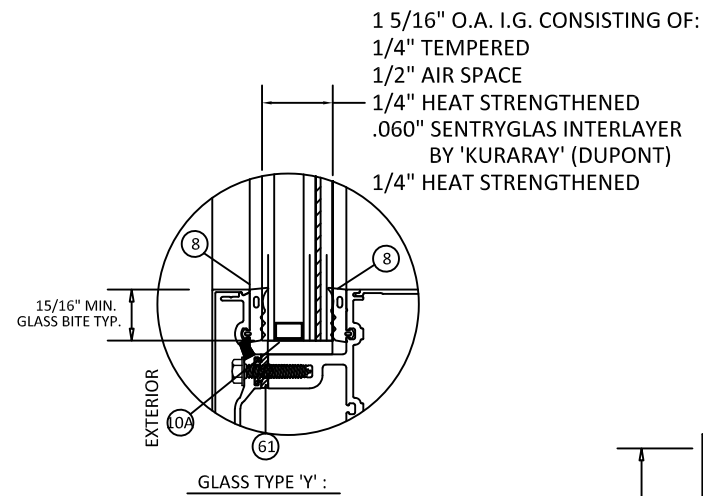
1/2" AIR SPACE CONSISTING OF:

- SPACER: ALUMINUM BOX SPACER
- PRIMARY SEALANT: POLYISOBUTYLENE (PIB)
- SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS

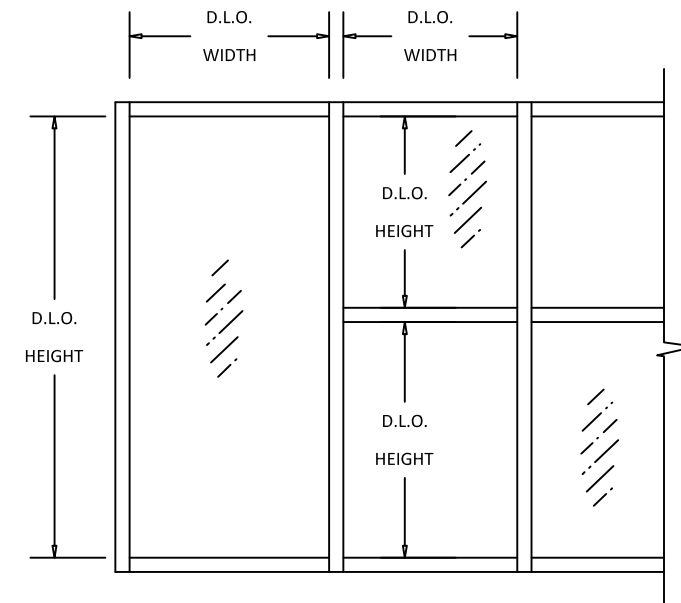
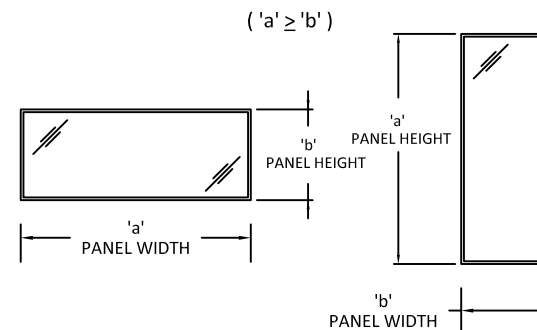
* NOTE:

- GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE 2018 IBC FOR SIZES OTHER THAN TESTED.
- SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
- APPROVED SETTING BLOCKS SHALL BE USED AND TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36".
- WHERE REQUIRED, TEMPERED GLASS IS REQUIRED TO BE USED TO COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CHAPTER 24 OF THE 2018 IBC.
- D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

REFER TO SECTION 6.2A FOR INSULATING SMALL MISSILE IMPACT GLASS LOAD TABLE



PANEL DIMENSIONS



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM
 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

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: 08.24.21

DWG. BY: MS
 CHK. BY: HFN

SCALE: NTS

DWG. #: YKK280

SECTION:

6.2

INSULATING GLASS LOAD CAPACITY - S.M.I

GLASS LOAD CAPACITY (PSF)						
NOMINAL DIMS.		GLASS TYPES K & L		GLASS TYPES M		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	60	130.0	130.0	90.0	90.0	
30		130.0	130.0	90.0	90.0	
36		130.0	130.0	90.0	90.0	
39		130.0	130.0	90.0	90.0	
42		130.0	130.0	90.0	90.0	
48		130.0	130.0	90.0	90.0	
54		130.0	130.0	90.0	90.0	
60		123.5	123.5	85.5	85.5	
66		123.5	123.5	85.5	85.5	
72		123.5	123.5	85.5	85.5	
78		123.5	123.5	85.5	85.5	
84		123.5	123.5	85.5	85.5	
24		66	130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36	130.0		130.0	90.0	90.0	
39	130.0		130.0	90.0	90.0	
42	130.0		130.0	90.0	90.0	
48	130.0		130.0	90.0	90.0	
54	130.0		130.0	90.0	90.0	
60	123.5		123.5	85.5	85.5	
66	112.3		112.3	77.7	77.7	
72	112.3		112.3	77.7	77.7	
78	112.3		112.3	77.7	77.7	
84	77.7		77.7	-	-	
24	72		130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0	
39		130.0	130.0	90.0	90.0	
42		130.0	130.0	90.0	90.0	
48		130.0	130.0	90.0	90.0	
54		130.0	130.0	90.0	90.0	
60		123.5	123.5	85.5	85.5	
66		112.3	112.3	77.7	77.7	
72		102.9	102.9	71.3	71.3	
78		71.3	71.3	-	-	
84		71.3	71.3	-	-	
24		78	130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36	130.0		130.0	90.0	90.0	
39	130.0		130.0	90.0	90.0	
42	130.0		130.0	90.0	90.0	
48	130.0		130.0	90.0	90.0	
54	130.0		130.0	90.0	90.0	
60	123.5		123.5	85.5	85.5	
66	112.3		112.3	77.7	77.7	
72	71.3		71.3	-	-	
78	65.8		65.8	-	-	
84	65.8		65.8	-	-	
24	84		130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36		130.0	130.0	90.0	90.0	
39		130.0	130.0	90.0	90.0	
42		130.0	130.0	90.0	90.0	
48		130.0	130.0	90.0	90.0	
54		130.0	130.0	90.0	90.0	
60		123.5	123.5	85.5	85.5	
66		77.7	77.7	-	-	
72		71.3	71.3	-	-	
78		65.8	65.8	-	-	

GLASS LOAD CAPACITY (PSF)						
NOMINAL DIMS.		GLASS TYPES K & L		GLASS TYPES M		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	90	130.0	130.0	90.0	90.0	
30		130.0	130.0	90.0	90.0	
36		130.0	130.0	90.0	90.0	
39		130.0	130.0	90.0	90.0	
42		130.0	130.0	90.0	90.0	
48		130.0	130.0	90.0	90.0	
54		130.0	130.0	90.0	90.0	
60		85.5	85.5	-	-	
66		77.7	77.7	-	-	
72		71.3	71.3	-	-	
24		94.5	130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36			130.0	130.0	90.0	90.0
39			130.0	130.0	90.0	90.0
42	130.0		130.0	90.0	90.0	
48	130.0		130.0	90.0	90.0	
54	130.0		130.0	90.0	90.0	
57	130.0		130.0	90.0	90.0	
60	85.5		85.5	-	-	
66	77.7		77.7	-	-	
72	71.3		71.3	-	-	
24	102		130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36			130.0	130.0	90.0	90.0
39		130.0	130.0	90.0	90.0	
42		130.0	130.0	90.0	90.0	
48		130.0	130.0	90.0	90.0	
54		90.0	90.0	-	-	
60		85.5	85.5	-	-	
66		77.7	77.7	-	-	
72		71.3	71.3	-	-	
24		108	130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36			130.0	130.0	90.0	90.0
39			130.0	130.0	90.0	90.0
42	130.0		130.0	90.0	90.0	
48	130.0		130.0	90.0	90.0	
54	90.0		90.0	-	-	
60	85.5		85.5	-	-	
66	77.7		77.7	-	-	
72	71.3		71.3	-	-	
24	114		130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36			130.0	130.0	90.0	90.0
39			130.0	130.0	90.0	90.0
42		130.0	130.0	90.0	90.0	
48		130.0	130.0	90.0	90.0	
54		90.0	90.0	-	-	
60		85.5	85.5	-	-	
66		77.7	77.7	-	-	
72		71.3	71.3	-	-	
24		120	130.0	130.0	90.0	90.0
30			130.0	130.0	90.0	90.0
36			130.0	130.0	90.0	90.0
39			130.0	130.0	90.0	90.0
42	130.0		130.0	90.0	90.0	
48	90.0		90.0	-	-	
54	90.0		90.0	-	-	
60	85.5		85.5	-	-	
66	77.7		77.7	-	-	
72	71.3		71.3	-	-	
78	65.8		65.8	-	-	

GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS.		GLASS TYPE 'Y'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+) INT. (-)	
24	60	55.0	
30		55.0	
36		55.0	
39		55.0	
42		55.0	
48		55.0	
54		55.0	
60		52.3	
66		52.3	
72		52.3	
78		52.3	
84		52.3	
24		66	55.0
30			55.0
36	55.0		
39	55.0		
42	55.0		
48	55.0		
54	55.0		
60	52.3		
66	47.5		
72	47.5		
78	47.5		
84	47.5		
24	72		55.0
30			55.0
36		55.0	
39		55.0	
42		55.0	
48		55.0	
54		55.0	
60		52.3	
66		47.5	
72		43.5	
78		55.0	
84		55.0	
24		78	55.0
30			55.0
36	55.0		
39	55.0		
42	55.0		
48	55.0		
54	55.0		
60	52.3		
66	47.5		
72	55.0		
78	55.0		
84	55.0		
24	84		55.0
30			55.0
36		55.0	
39		55.0	
42		55.0	
48		55.0	
54		55.0	
60		52.3	

GLASS LOAD CAPACITY (PSF)				
NOMINAL DIMS.		GLASS TYPE 'Y'		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+) INT. (-)		
24	90	55.0		
30		55.0		
36		55.0		
39		55.0		
42		55.0		
48		55.0		
54		55.0		
24		94.5	55.0	
30			55.0	
36			55.0	
39			55.0	
42			55.0	
48			55.0	
54			55.0	
57	55.0			
24	102		55.0	
30			55.0	
36			55.0	
39			55.0	
42			55.0	
48			55.0	
24		108	55.0	
30			55.0	
36			55.0	
39			55.0	
42			55.0	
48			55.0	
24			114	55.0
30				55.0
36	55.0			
39	55.0			
42	55.0			
24	120			55.0
30				55.0
36				55.0
39		55.0		
42		55.0		

REFER TO SECTION 6.2 FOR INSULATING SMALL MISSILE IMPACT GLAZING DETAILS.

D.L.O. WIDTH = PANEL WIDTH - 3"
D.L.O. HEIGHT = PANEL HEIGHT - 6"



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM
GLASS CAPACITY CHARTS

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

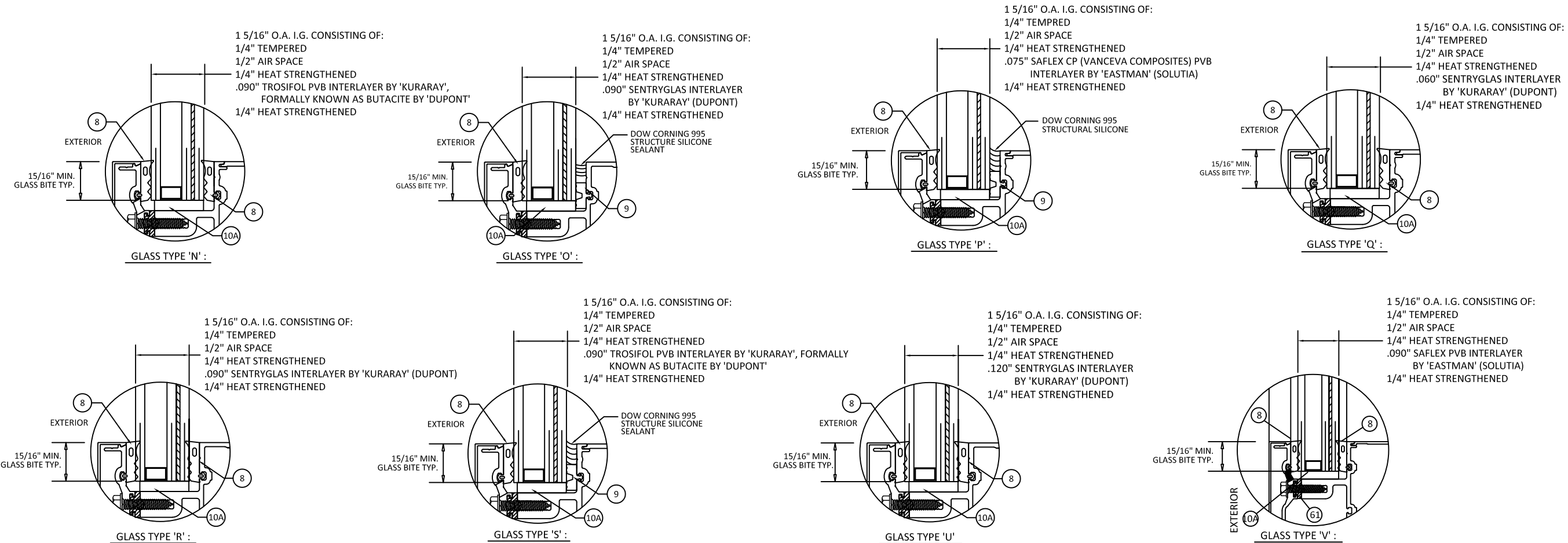
DATE: 08.24.21
DWG. BY: MS
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK280
SECTION: 6.2A
[PAGE 36 OF 72]

10/28/2021 9:59 PM
s:\projects\ykk_ap_america, inc\tdi-21-0820 - tdi submittal - revision series yhc 300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 5 & 6 - door & glazing dtls.dwg

INSULATING LARGE MISSILE IMPACT GLASS OPTIONS

NOTES:

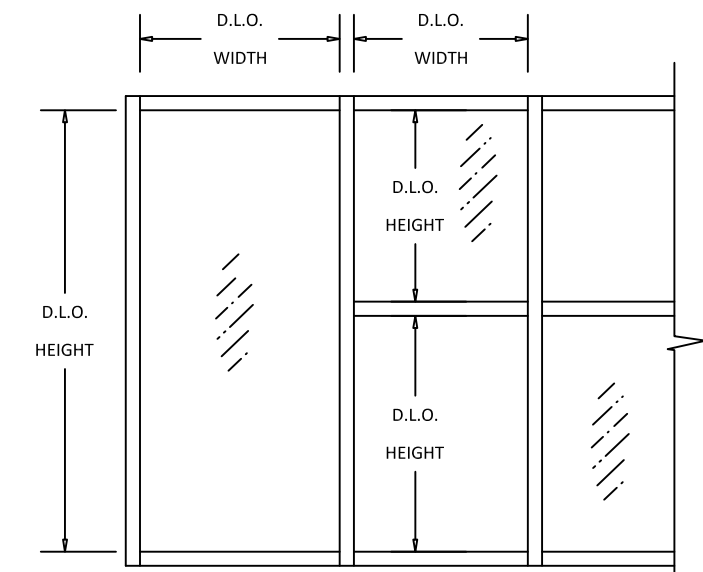
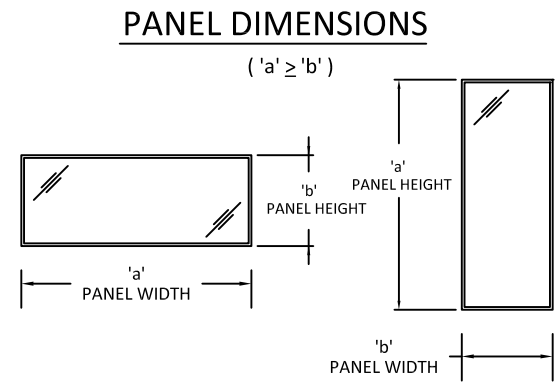
- CHART VALUES PROVIDE MAXIMUM DESIGN PRESSURES ACCORDING TO ASTM E1300 FOR GIVEN GLASS DIMENSIONS 'a' AND 'b' ($a \geq b$), AND CH. 17 OF THE IBC FOR SIZES OTHER THAN TESTED
- DO NOT EXCEED MULLION CAPACITY SELECTED OR ANCHOR CAPACITY IN DESIGN PRESSURE CHARTS



- 1/2" AIR SPACE CONSISTING OF:**
- SPACER: ALUMINUM BOX SPACER
 - PRIMARY SEALANT: POLYISOBUTYLENE (PIB)
 - SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS

REFER TO SECTION 6.3A & 6.3B FOR INSULATING LARGE MISSILE IMPACT GLASS LOAD TABLE

- * NOTE:**
- GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE 2018 IBC FOR SIZES OTHER THAN TESTED.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
 - APPROVED SETTING BLOCKS SHALL BE USED AND TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36".
 - WHERE REQUIRED, TEMPERED GLASS IS REQUIRED TO BE USED TO COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CHAPTER 24 OF THE 2018 IBC.
 - D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
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: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

SECTION:

6.3

10/28/2021 9:59 PM s:\projects\ykk_ap_america, inc\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 5 & 6 - door & glazing dtls.dwg

INSULATING GLASS LOAD CAPACITY - L.M.I

GLASS LOAD CAPACITY (PSF)								
NOMINAL DIMS.		GLASS TYPE 'N' & 'V'		GLASS TYPE 'Q'		GLASS TYPES 'S'		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	60	45.0	45.0	55.0	55.0	65.0	65.0	
30		45.0	45.0	55.0	55.0	65.0	65.0	
36		45.0	45.0	55.0	55.0	65.0	65.0	
39		45.0	45.0	55.0	55.0	65.0	65.0	
42		45.0	45.0	55.0	55.0	65.0	65.0	
48		42.2	42.2	55.0	55.0	65.0	65.0	
54		37.5	37.5	55.0	55.0	65.0	65.0	
60		33.8	33.8	52.3	52.3	61.8	61.8	
66		-	-	52.3	52.3	61.8	61.8	
72		-	-	52.3	52.3	61.8	61.8	
78		-	-	52.3	52.3	61.8	61.8	
84		-	-	52.3	52.3	61.8	61.8	
24		66	45.0	45.0	55.0	55.0	65.0	65.0
30			45.0	45.0	55.0	55.0	65.0	65.0
36			45.0	45.0	55.0	55.0	65.0	65.0
39			45.0	45.0	55.0	55.0	65.0	65.0
42	45.0		45.0	55.0	55.0	65.0	65.0	
48	42.2		42.2	55.0	55.0	65.0	65.0	
54	37.5		37.5	55.0	55.0	65.0	65.0	
60	-		-	52.3	52.3	61.8	61.8	
66	-		-	47.5	47.5	56.1	56.1	
72	-		-	47.5	47.5	56.1	56.1	
78	-		-	47.5	47.5	56.1	56.1	
24	72		45.0	45.0	55.0	55.0	65.0	65.0
30			45.0	45.0	55.0	55.0	65.0	65.0
36			45.0	45.0	55.0	55.0	65.0	65.0
39			45.0	45.0	55.0	55.0	65.0	65.0
42			45.0	45.0	55.0	55.0	65.0	65.0
48		42.2	42.2	55.0	55.0	65.0	65.0	
54		-	-	55.0	55.0	65.0	65.0	
60		-	-	52.3	52.3	61.8	61.8	
66		-	-	47.5	47.5	56.1	56.1	
72		-	-	43.5	43.5	51.5	51.5	
24		78	45.0	45.0	55.0	55.0	65.0	65.0
30			45.0	45.0	55.0	55.0	65.0	65.0
36			45.0	45.0	55.0	55.0	65.0	65.0
39			45.0	45.0	55.0	55.0	65.0	65.0
42			45.0	45.0	55.0	55.0	65.0	65.0
48			-	-	55.0	55.0	65.0	65.0
54	-		-	55.0	55.0	65.0	65.0	
60	-		-	52.3	52.3	61.8	61.8	
66	-		-	47.5	47.5	56.1	56.1	

GLASS LOAD CAPACITY (PSF)									
NOMINAL DIMS.		GLASS TYPE 'N' & 'V'		GLASS TYPE 'Q'		GLASS TYPES 'S'			
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)		
24	84	45.0	45.0	55.0	55.0	65.0	65.0		
30		45.0	45.0	55.0	55.0	65.0	65.0		
36		45.0	45.0	55.0	55.0	65.0	65.0		
39		45.0	45.0	55.0	55.0	65.0	65.0		
42		45.0	45.0	55.0	55.0	65.0	65.0		
48		-	-	55.0	55.0	65.0	65.0		
54		-	-	55.0	55.0	65.0	65.0		
60		-	-	52.3	52.3	61.8	61.8		
24		90	45.0	45.0	55.0	55.0	65.0	65.0	
30			45.0	45.0	55.0	55.0	65.0	65.0	
36			45.0	45.0	55.0	55.0	65.0	65.0	
39			45.0	45.0	55.0	55.0	65.0	65.0	
42			-	-	55.0	55.0	65.0	65.0	
48			-	-	55.0	55.0	65.0	65.0	
54			-	-	55.0	55.0	65.0	65.0	
24			94.5	45.0	45.0	55.0	55.0	65.0	65.0
30	45.0			45.0	55.0	55.0	65.0	65.0	
36	45.0			45.0	55.0	55.0	65.0	65.0	
39	-			-	55.0	55.0	65.0	65.0	
42	-			-	55.0	55.0	65.0	65.0	
48	-			-	55.0	55.0	65.0	65.0	
54	-			-	55.0	55.0	65.0	65.0	
24	102			45.0	45.0	55.0	55.0	65.0	65.0
30				45.0	45.0	55.0	55.0	65.0	65.0
36		-		-	55.0	55.0	65.0	65.0	
39		-		-	55.0	55.0	65.0	65.0	
42		-		-	55.0	55.0	65.0	65.0	
48		-		-	55.0	55.0	65.0	65.0	
24		108		45.0	45.0	55.0	55.0	65.0	65.0
30				45.0	45.0	55.0	55.0	65.0	65.0
36				-	-	55.0	55.0	65.0	65.0
39			-	-	55.0	55.0	65.0	65.0	
42			-	-	55.0	55.0	65.0	65.0	
48			-	-	55.0	55.0	65.0	65.0	
24			114	45.0	45.0	55.0	55.0	65.0	65.0
30				45.0	45.0	55.0	55.0	65.0	65.0
36				-	-	55.0	55.0	65.0	65.0
39				-	-	55.0	55.0	65.0	65.0
42	-			-	55.0	55.0	65.0	65.0	
24	120			45.0	45.0	55.0	55.0	65.0	65.0
30				45.0	45.0	55.0	55.0	65.0	65.0
36				-	-	55.0	55.0	65.0	65.0
39				-	-	55.0	55.0	65.0	65.0
42				-	-	55.0	55.0	65.0	65.0

GLASS LOAD CAPACITY (PSF)						
NOMINAL DIMS.		GLASS TYPES 'R'		GLASS TYPES 'P' & 'O'		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	60	90.0	90.0	130.0	130.0	
30		90.0	90.0	130.0	130.0	
36		90.0	90.0	130.0	130.0	
39		90.0	90.0	130.0	130.0	
42		90.0	90.0	130.0	130.0	
48		90.0	90.0	130.0	130.0	
54		90.0	90.0	130.0	130.0	
60		85.5	85.5	124.6	124.6	
66		85.5	85.5	124.6	124.6	
72		85.5	85.5	124.6	124.6	
78		85.5	85.5	124.6	124.6	
84		85.5	85.5	124.6	124.6	
24		66	90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42	90.0		90.0	130.0	130.0	
48	90.0		90.0	130.0	130.0	
54	90.0		90.0	130.0	130.0	
60	85.5		85.5	124.6	124.6	
66	77.7		77.7	113.3	113.3	
72	77.7		77.7	113.3	113.3	
78	77.7		77.7	113.3	113.3	
84	77.7		77.7	-	-	
24	72		90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0	
48		90.0	90.0	130.0	130.0	
54		90.0	90.0	130.0	130.0	
60		85.5	85.5	124.6	124.6	
66		77.7	77.7	113.3	113.3	
72		71.3	71.3	103.8	103.8	
78		71.3	71.3	-	-	
84		71.3	71.3	-	-	
24		78	90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42	90.0		90.0	130.0	130.0	
48	90.0		90.0	130.0	130.0	
54	90.0		90.0	130.0	130.0	
60	85.5		85.5	124.6	124.6	
66	77.7		77.7	113.3	113.3	
72	71.3		71.3	-	-	
78	65.8		65.8	-	-	
84	65.8		65.8	-	-	
24	84		90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42		90.0	90.0	130.0	130.0	
48		90.0	90.0	130.0	130.0	
54		90.0	90.0	130.0	130.0	
60		85.5	85.5	124.6	124.6	
66		77.7	77.7	-	-	
72		71.3	71.3	-	-	
78		65.8	65.8	-	-	

GLASS LOAD CAPACITY (PSF)						
NOMINAL DIMS.		GLASS TYPES 'R'		GLASS TYPES 'P' & 'Q'		
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	
24	90	90.0	90.0	130.0	130.0	
30		90.0	90.0	130.0	130.0	
36		90.0	90.0	130.0	130.0	
39		90.0	90.0	130.0	130.0	
42		90.0	90.0	130.0	130.0	
48		90.0	90.0	130.0	130.0	
54		90.0	90.0	130.0	130.0	
60		85.5	85.5	124.6	124.6	
66		77.7	77.7	-	-	
72		71.3	71.3	-	-	
24		94.5	90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42			90.0	90.0	130.0	130.0
48			90.0	90.0	130.0	130.0
54	90.0		90.0	130.0	130.0	
60	85.5		85.5	-	-	
66	77.7		77.7	-	-	
72	71.3		71.3	-	-	
24	102		90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42			90.0	90.0	130.0	130.0
48			90.0	90.0	130.0	130.0
54		90.0	90.0	-	-	
60		85.5	85.5	-	-	
66		77.7	77.7	-	-	
24		108	90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42			90.0	90.0	130.0	130.0
48			90.0	90.0	130.0	130.0
54			90.0	90.0	-	-
60	85.5		85.5	-	-	
24	114		90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42			90.0	90.0	130.0	130.0
48			90.0	90.0	130.0	130.0
54			90.0	90.0	-	-
60			85.5	85.5	-	-
66		77.7	77.7	-	-	
72		71.3	71.3	-	-	
24		120	90.0	90.0	130.0	130.0
30			90.0	90.0	130.0	130.0
36			90.0	90.0	130.0	130.0
39			90.0	90.0	130.0	130.0
42			90.0	90.0	130.0	130.0
48			90.0	90.0	130.0	130.0
54	90.0		90.0	-	-	
60	85.5		85.5	-	-	
66	77.7		77.7	-	-	
72	71.3		71.3	-	-	
78	65.8		65.8	-	-	

REFER TO SECTION 6.3 FOR INSULATING LARGE MISSILE IMPACT GLAZING DETAILS.

D.L.O. WIDTH = PANEL WIDTH - 3"
D.L.O. HEIGHT = PANEL HEIGHT - 6"



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

INSULATING GLASS LOAD CAPACITY - L.M.I (CONT.)

GLASS LOAD CAPACITY (PSF)		
NOMINAL DIMS.		GLASS TYPE 'U'
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+) INT. (-)
24	60	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		130.0
60		124.6
66		124.6
72		124.6
78	124.6	
84	124.6	
24	66	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		130.0
60		124.6
66		113.3
72		113.3
78	113.3	
84	77.7	
24	72	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		130.0
60		124.6
66		113.3
72		103.8
78	71.3	
84	71.3	
24	78	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		130.0
60		124.6
66		113.3
72		71.3
78	65.8	
84	65.8	
24	84	130.0
30		130.0
36		130.0
39		130.0
42		130.0
48		130.0
54		130.0
60		124.6
66		77.7
72		71.3
78	65.8	

GLASS LOAD CAPACITY (PSF)			
NOMINAL DIMS.		GLASS TYPE 'U'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	
24	90	130.0	
30		130.0	
36		130.0	
39		130.0	
42		130.0	
48		130.0	
54		130.0	
60		124.6	
66		77.7	
72		71.3	
24	94.5	130.0	
30		130.0	
36		130.0	
39		130.0	
42		130.0	
48		130.0	
54		130.0	
54		130.0	
60		85.5	
66		77.7	
72	71.3		
24	102	130.0	
30		130.0	
36		130.0	
39		130.0	
42		130.0	
48		130.0	
54		90.0	
60		85.5	
66		77.7	
72		130.0	
24	108	130.0	
30		130.0	
36		130.0	
39		130.0	
42		130.0	
48		130.0	
54		90.0	
60		85.5	
24		114	130.0
30			130.0
36	130.0		
39	130.0		
42	130.0		
48	90.0		
54	90.0		
60	85.5		
24	120		130.0
30			130.0
36		130.0	
39		130.0	
42		130.0	
48		90.0	
54		90.0	
57		90.0	



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG
 CURTAIN WALL SYSTEM
 GLASS CAPACITY CHARTS

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: 08.24.21

DWG. BY: MS **CHK. BY:** HFN

SCALE: NTS

DWG. #: YKK280

SECTION:
6.3B

[PAGE 39 OF 72]

s:\projects\ykk_ap_america, inc\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 5 & 6 - door & glazing dtls.dwg 10/28/2021 10:02 PM

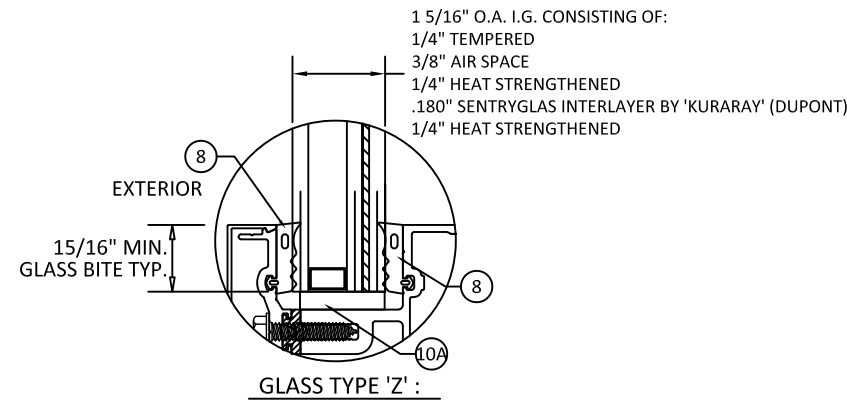
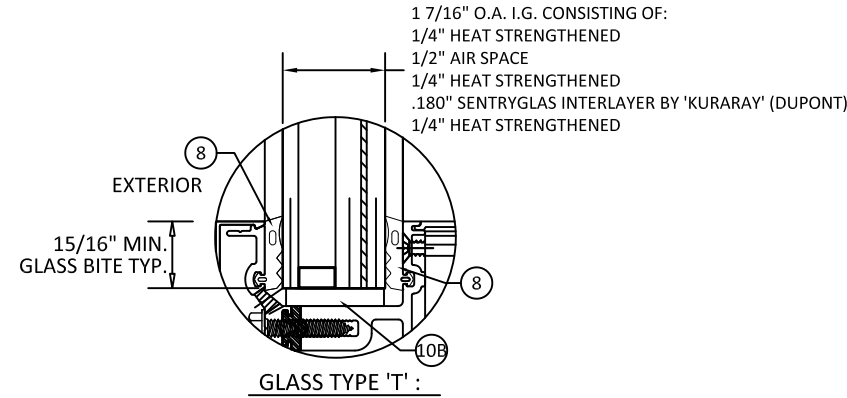
INSULATING MISSILE LEVEL E IMPACT GLASS OPTION

NOTES:

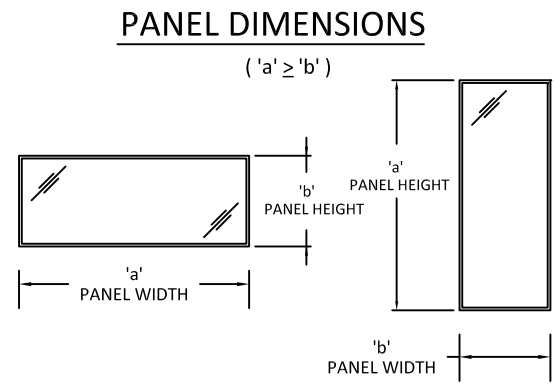
- CHART VALUES PROVIDE MAXIMUM DESIGN PRESSURES ACCORDING TO ASTM E1300 FOR GIVEN GLASS DIMENSIONS 'a' AND 'b' ($a \geq b$), AND CH. 17 OF THE IBC FOR SIZES OTHER THAN TESTED
- DO NOT EXCEED MULLION CAPACITY SELECTED OR ANCHOR CAPACITY IN DESIGN PRESSURE CHARTS

GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		GLASS TYPE 'T'		GLASS TYPE 'Z'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	60	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60		85.5	99.8	85.5	85.5
66		85.5	99.8	85.5	85.5
72		85.5	99.8	85.5	85.5
24	66	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60		85.5	99.8	85.5	85.5
66		77.7	90.7	77.7	77.7
72		77.7	90.7	77.7	77.7
24	72	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60		85.5	99.8	85.5	85.5
66		77.7	90.7	77.7	77.7
72		71.3	83.1	71.3	71.3
24	78	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60		85.5	99.8	85.5	85.5
66		77.7	90.7	77.7	77.7
72		71.3	83.1	-	-
24	84	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60		85.5	99.8	85.5	85.5
66		77.7	90.7	-	-
72		71.3	83.1	-	-

GLASS LOAD CAPACITY (PSF)					
NOMINAL DIMS.		GLASS TYPE 'T'		GLASS TYPE 'Z'	
D.L.O. WIDTH (in.)	D.L.O. HEIGHT (in.)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
24	90	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60		85.5	99.8	-	-
66		77.7	90.7	-	-
72		71.3	83.1	-	-
24	94.5	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	90.0	90.0
60		85.5	99.8	-	-
66		77.7	90.7	-	-
72		71.3	83.1	-	-
24	102	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	-	-
60		85.5	99.8	-	-
66		77.7	90.7	-	-
72		71.3	83.1	-	-
24	108	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	90.0	90.0
54		90.0	105.0	-	-
60		85.5	99.8	-	-
66		77.7	90.7	-	-
72		71.3	83.1	-	-
24	114	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	-	-
54		90.0	105.0	-	-
60		85.5	99.8	-	-
66		77.7	90.7	-	-
72		71.3	83.1	-	-
24	117	90.0	105.0	90.0	90.0
30		90.0	105.0	90.0	90.0
36		90.0	105.0	90.0	90.0
39		90.0	105.0	90.0	90.0
42		90.0	105.0	90.0	90.0
48		90.0	105.0	-	-
54		90.0	105.0	-	-
60		85.5	99.8	-	-
66		77.7	90.7	-	-
72		71.3	83.1	-	-
57	90.0	105.0	-	-	

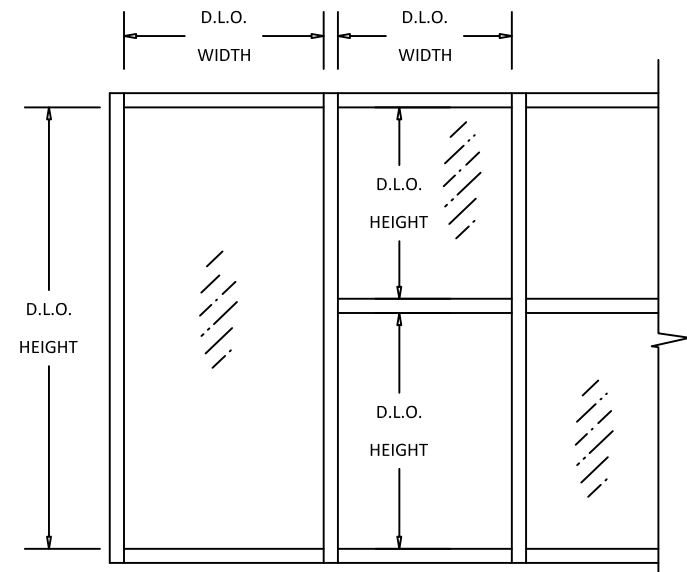


D.L.O. WIDTH = PANEL WIDTH - 3"
 D.L.O. HEIGHT = PANEL HEIGHT - 6"



- 3/8" & 1/2" AIR SPACE CONSISTING OF:
- SPACER: ALUMINUM BOX SPACER
 - PRIMARY SEALANT: POLYISOBUTYLENE (PIB)
 - SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS

- * NOTE:
- GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS) AND CHAPTER 17 OF THE 2018 IBC FOR SIZES OTHER THAN TESTED.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
 - APPROVED SETTING BLOCKS SHALL BE USED AND TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36".
 - WHERE REQUIRED, TEMPERED GLASS IS REQUIRED TO BE USED TO COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CHAPTER 24 OF THE 2018 IBC.
 - D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.



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 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM
 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: 08.24.21
 DWG. BY: MS
 SCALE: NTS
 DWG. #: YKK280

SECTION: 6.4
 [PAGE 40 OF 72]

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F, T & S ANCHOR TYPES

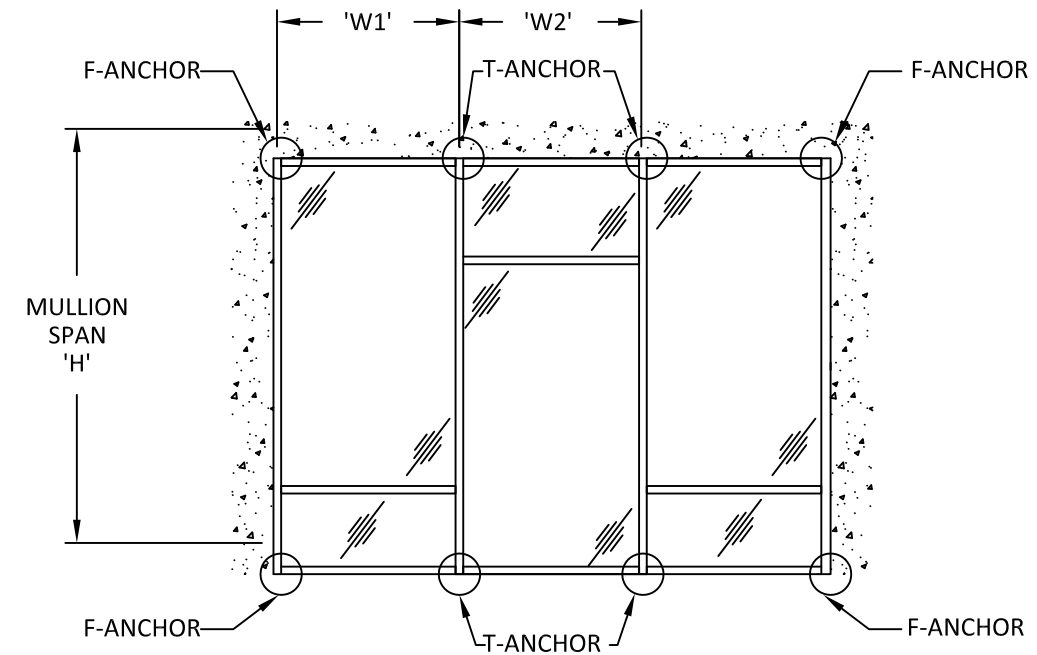
TYPE	DIAMETER	ANCHOR TYPE	SUBSTRATE	MINIMUM EDGE DISTANCE	MINIMUM EMBEDMENT
A	1/2"	HILTI KWIK BOLT TZ	MIN. 3000 PSI CONCRETE 'UNCRACKED'	3 1/4"	3 5/8"
			MIN. 3000 PSI CONCRETE 'CRACKED OR UNCRACKED'	4 1/2"	
			MIN. 4000 PSI CONCRETE 'UNCRACKED'	3 1/4"	
			MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	3 3/4"	
B	1/2"	HILTI HAS + HIT HY200 ADHESIVE ANCHOR	MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	5"	5"
C	1/2"	POWERS WEDGE-BOLT +	MIN. 3000 PSI CONCRETE 'UNCRACKED'	4 1/8"	3 1/2"
			MIN. 3000 PSI CONCRETE 'CRACKED OR UNCRACKED'	6 3/8"	
D	1/2"	ASTM A325 OR SAE GR. 5 THREADED BOLT WITH NUT & WASHER OR DRILL & TAP, OR ELCO TAP-FLEX GR. 5 SELF TAPPING BOLT	MIN. 1/4" THICK, A36 STEEL	1 1/2"	MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE OR NUT
E	1/2"	SIMPSON TITEN HD	MIN. 4000 PSI CONCRETE 'UNCRACKED'	3 5/8"	4"
F	1/2"	HILTI KWIK BOLT3	MIN. 4000 PSI CONCRETE 'UNCRACKED'	4"	3 1/4"
G	1/2"	SELF-TAPPING OR THREADED BOLT, MIN. SAE GR. 5 OR ASTM A325	MIN. 3/16" THICK A36 STEEL	1 1/4"	- FOR SELF-TAPPING OR DRILL & TAPPED HOLES, MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE. - FOR STANDARD DRILLED HOLES, PENETRATION TO BE SUFFICIENT TO MAINTAIN FULL ENGAGEMENT WITH NUT & WASHER
H	3/8"	SIMPSON TITEN HD	MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	3 5/8"	3 1/4"
I	3/8"	HILTI KWIK BOLT3	MIN. 4000 PSI CONCRETE 'UNCRACKED'	4"	2 5/16"
J	5/16"	ELCO DRIL-FLEX OR HILTI KWIK-FLEX SELF-DRILLING	MIN. 16 GAUGE STEEL, MIN. Fy = 33KSI	3/4"	MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE
K	#14	ELCO CRETE FLEX SS4	MIN. 3500 PSI CONCRETE UNCRACKED	1 3/4"	1 3/4"
L	1/4"	HILTI KWIK-CONIH+	MIN. 2000 PSI CONCRETE 'UNCRACKED'	1 3/4"	1 3/4"
M	M12	HALFEN TEE-BOLT GR. 8.8 FOR USE WITH HT3512 & HT6112 HALFEN CAST IN CHANNELS	MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	3"	PER HALFEN'S SPECIFICATIONS HT3512 = 3 1/8" HT6112 = 6 3/8"
N	3/8"	Power Wedge Bolt +	MIN 3000 PSI CONCRETE	3 1/4"	2 1/8"
O	#14	WOOD SCREW	WOOD (MIN SG. = 0.42)	1"	1 1/4"
	1/4"	GR 5 SM SCREW			
	1/4"	ELCO ULTRA -CON			

MULLION SPACING OR BAY WIDTH, 'W', FOR T-ANCHORS	$W = \frac{W1 + W2}{2}$
MULLION SPACING OR BAY WIDTH, 'W', FOR F-ANCHORS AT JAMBS	$W = W1$
MULLION SPACING OR BAY WIDTH, 'W', FOR F-ANCHORS AT VERTICAL MULL WITH DOORS	$*W = \frac{W1 + W2}{2}$

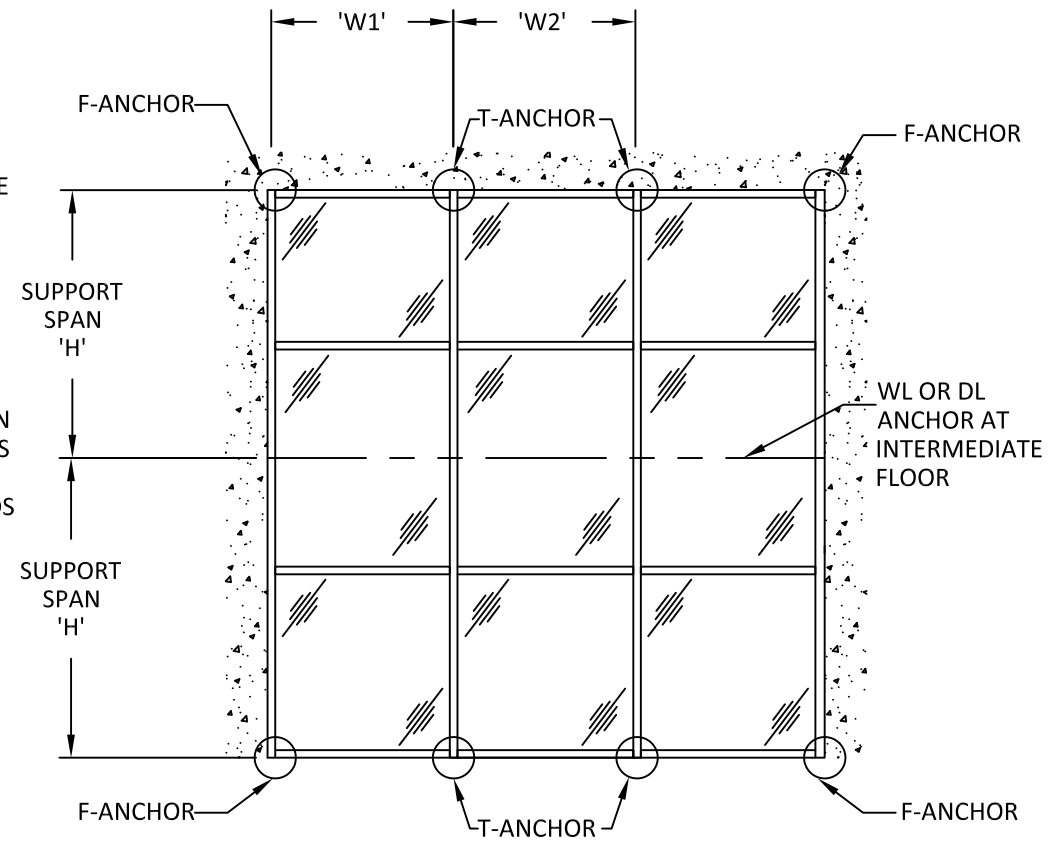
*REFER TO SECTION 2 FOR ILLUSTRATION OF DETERMINING MAX. TRIBUTARY WIDTH

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 8 FOR WIND/DEAD LOAD ANCHOR CONFIGURATIONS.
5. REFER TO SECTION 7 FOR T, F, & S ANCHOR TYPE CAPACITIES.
6. FOR ANCHOR TYPE 'M', FINAL SELECTION OF HALFEN CAST IN CHANNEL & T-BOLTS SHALL BE VERIFIED BY HALFEN USA IN ACCORDANCE WITH SITE SPECIFIC LOADS PRIOR TO INSTALLATION.



SINGLE SPAN ANCHOR LAYOUT



MULTI SPAN ANCHOR LAYOUT - TYP.



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TITLE: YHC - 300 OG
CURTAIN WALL SYSTEM
F, T & S - ANCHOR DETAILS

PREPARED BY:
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TBPE FIRM No. 13734

DATE:	08.24.21	
DWG. BY:	MS	CHK. BY: HFN
SCALE:	NTS	
DWG. #:	YKK280	
SECTION:	7.0	

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TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
 F & T - ANCHOR DETAILS

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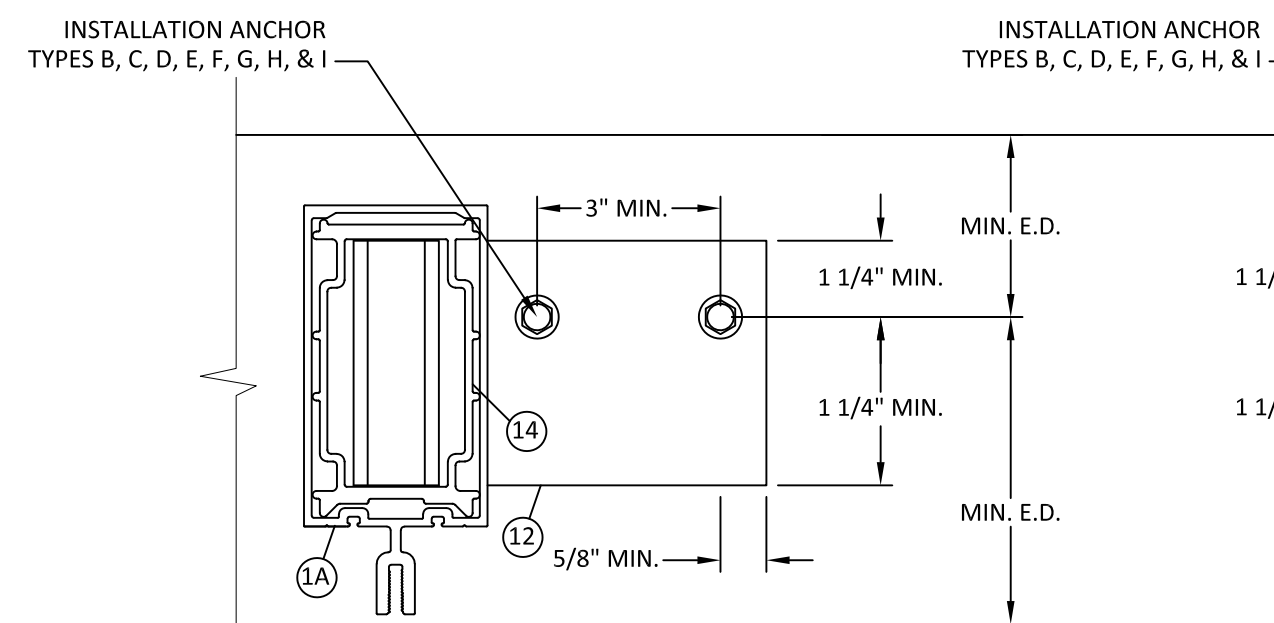
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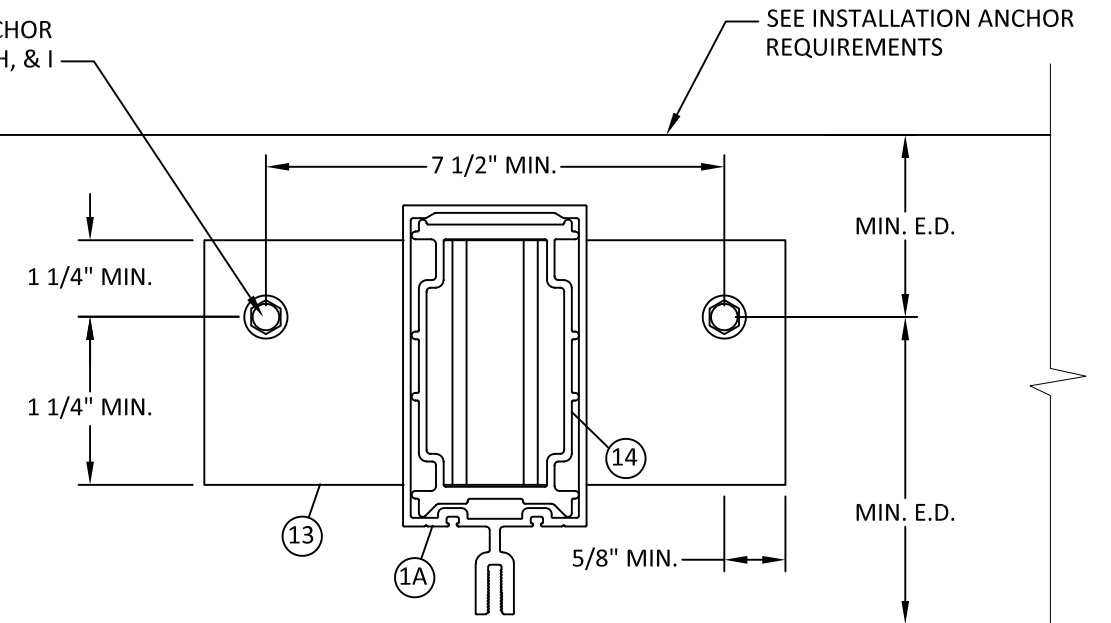
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DATE:	08.24.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK280

SECTION:
7.1
 [PAGE 42 OF 72]



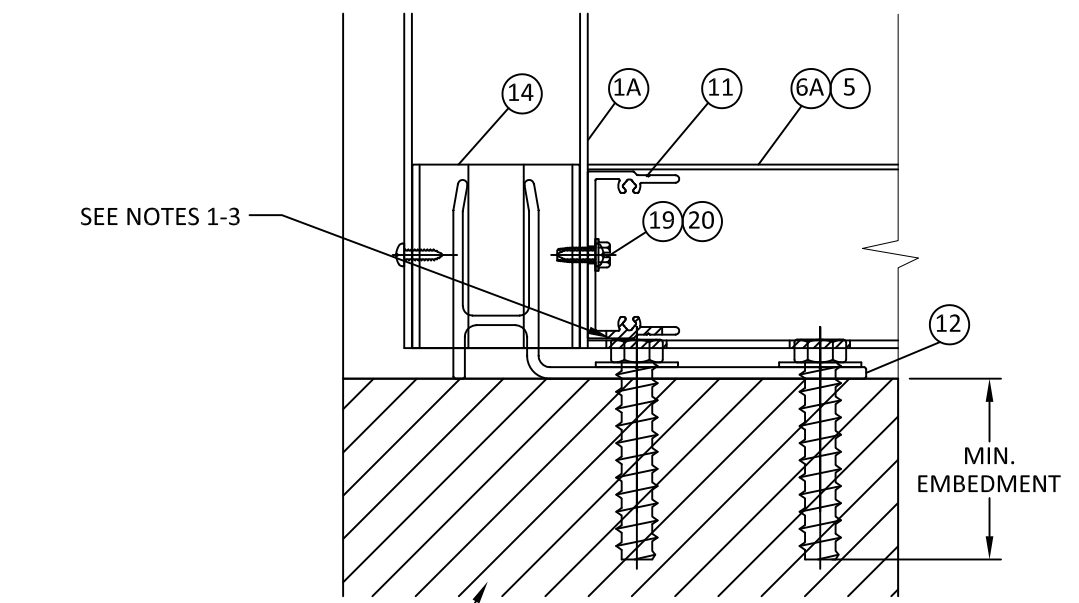
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7.1 F-ANCHOR CONFIG 1



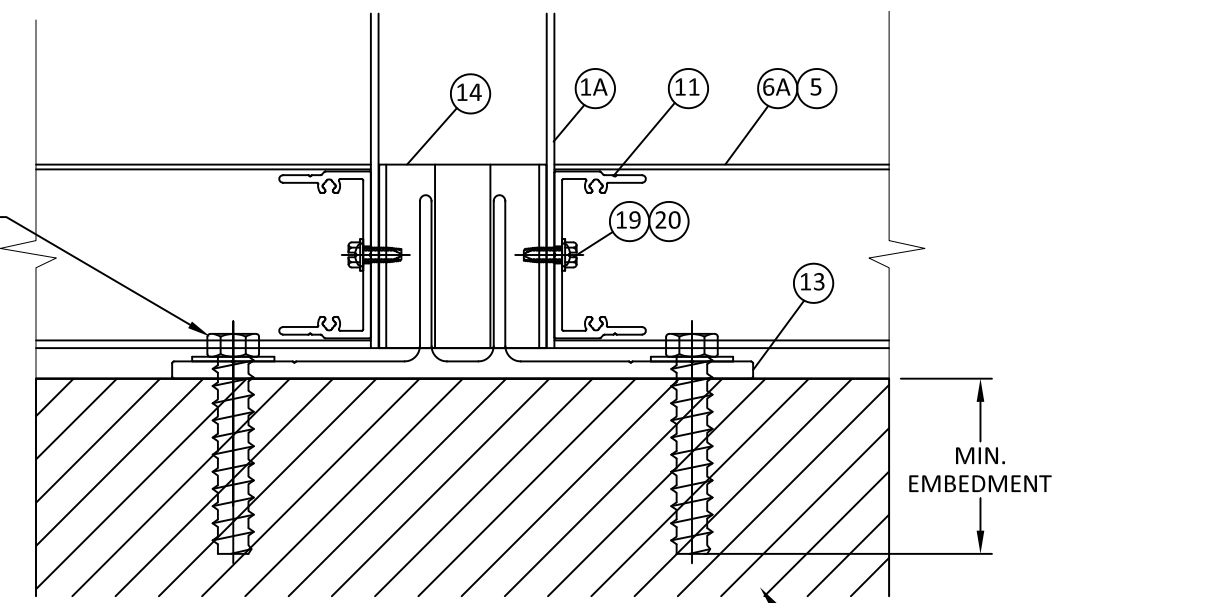
2 HORIZONTAL SECTION
7.1 T-ANCHOR CONFIG 1

NOTE:
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 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

NOTE:
 1. STANDARD DUTY MEMBERS SHOWN. LIGHT DUTY WITH SAME END ANCHORS ARE SIMILAR. HEAVY DUTY MULLIONS ARE SIMILAR WITH E1-3034 (INTERMEDIATE VERTICAL MULLION) ITEM #99 & E1-3035 (JAMB MULLION) ITEM #100 END ANCHORS.



EXTERIOR VIEW
 F-ANCHOR (TYPICAL)



EXTERIOR VIEW
 T-ANCHOR (TYPICAL)

CONCRETE OR STEEL SUBSTRATE BY OTHERS. SEE INSTALLATION ANCHOR REQUIREMENTS

CONCRETE OR STEEL SUBSTRATE BY OTHERS. SEE INSTALLATION ANCHOR REQUIREMENTS

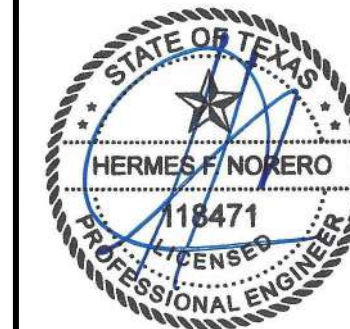
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TITLE: YHC - 300 OG CURTAIN WALL SYSTEM
F & T - ANCHOR DETAILS

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DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 08.24.21

DWG. BY: MS CHK. BY: HFN

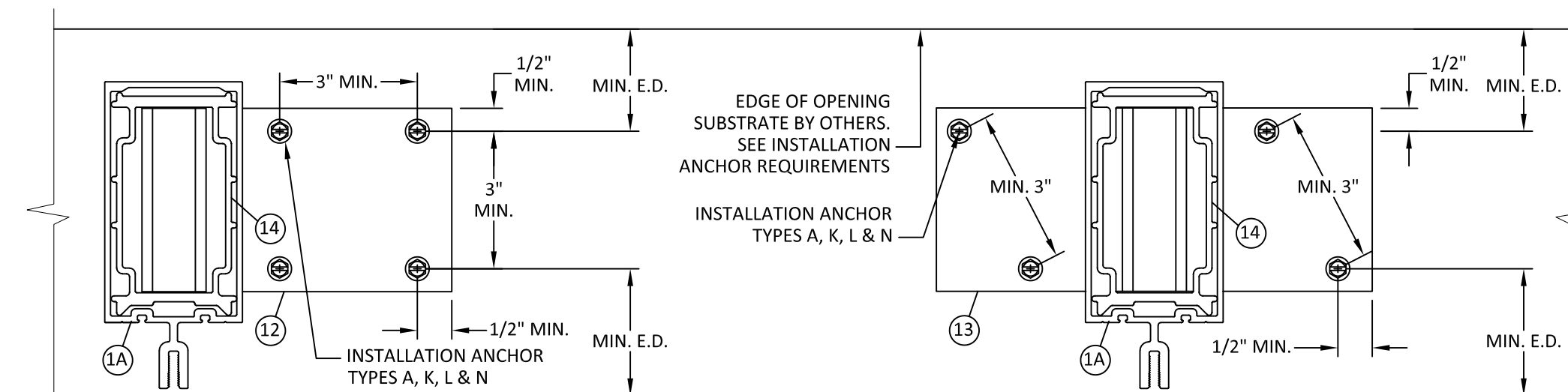
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DWG. #: YKK280

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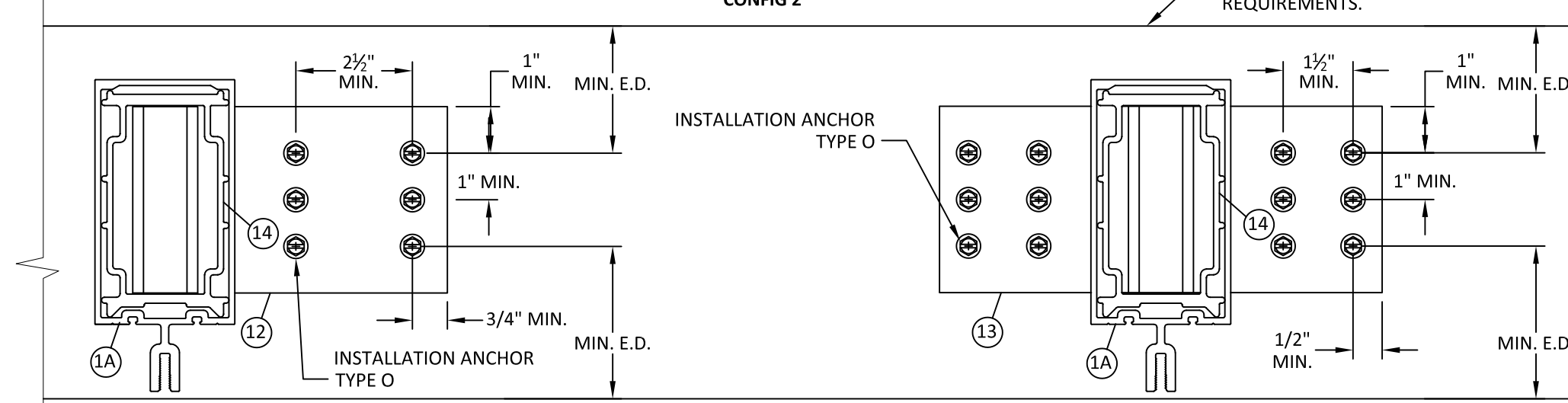
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[PAGE 43 OF 72]



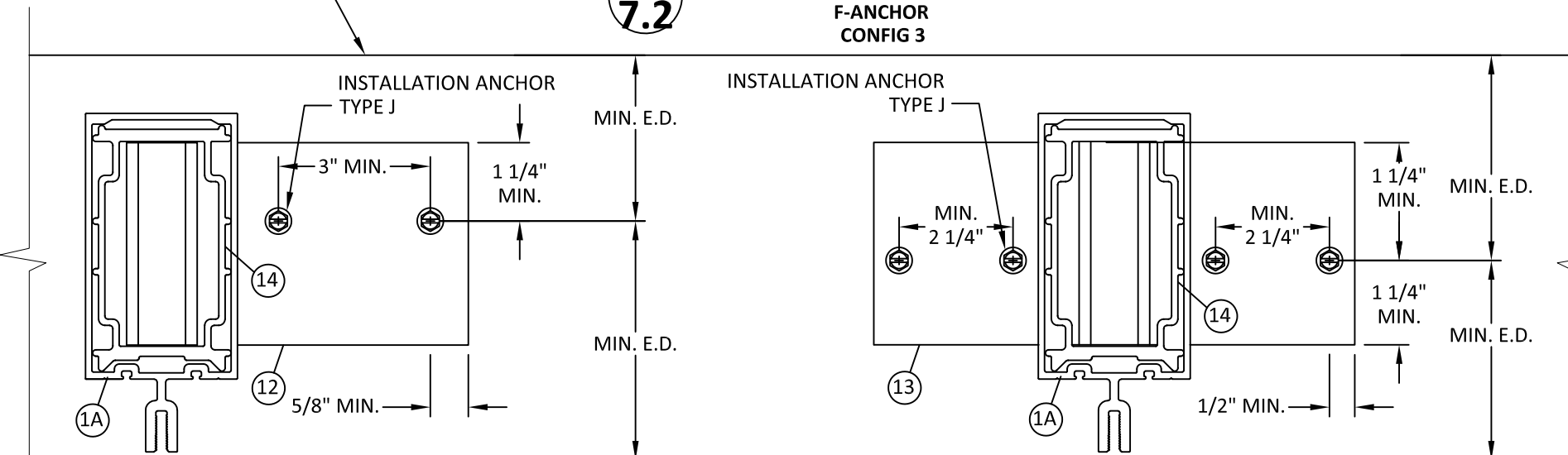
3 HORIZONTAL SECTION
7.2
F-ANCHOR CONFIG 2

4 HORIZONTAL SECTION
7.2
T-ANCHOR CONFIG 2



5 HORIZONTAL SECTION
7.2
F-ANCHOR CONFIG 3

6 HORIZONTAL SECTION
7.2
T-ANCHOR CONFIG 3



7 HORIZONTAL SECTION
7.2
F-ANCHOR CONFIG 7

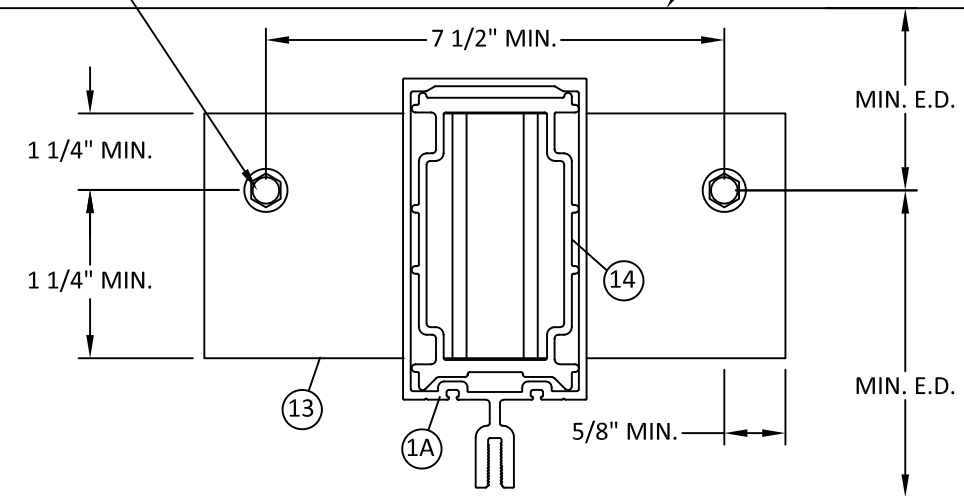
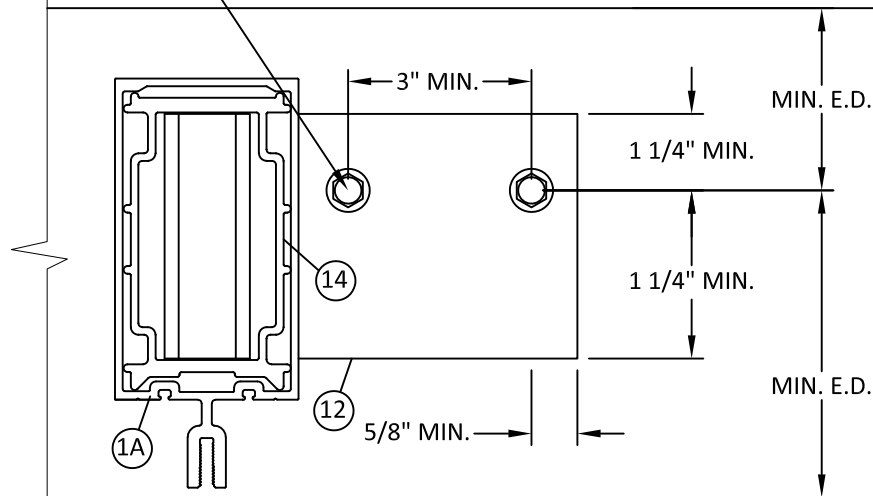
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7.2
T-ANCHOR CONFIG 7

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TYPE M ANCHORS FOR USE WITH HALFEN HT3512 CAST IN PLACE ANCHOR CHANNELS

TYPE M ANCHORS FOR USE WITH HALFEN HT6112 CAST IN PLACE ANCHOR CHANNELS

EDGE OF OPENING SUBSTRATE BY OTHERS. SEE INSTALLATION ANCHOR REQUIREMENTS



9 HORIZONTAL SECTION
7.3 F-ANCHOR CONFIG 1

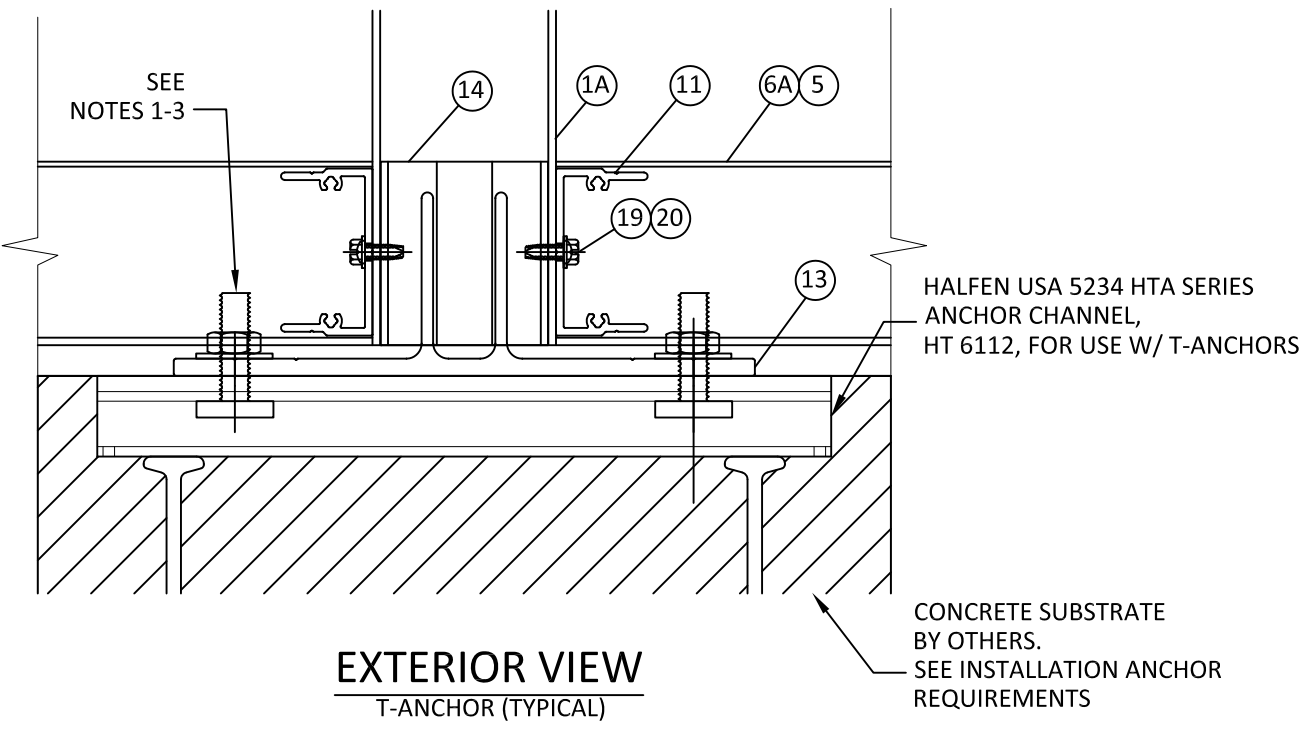
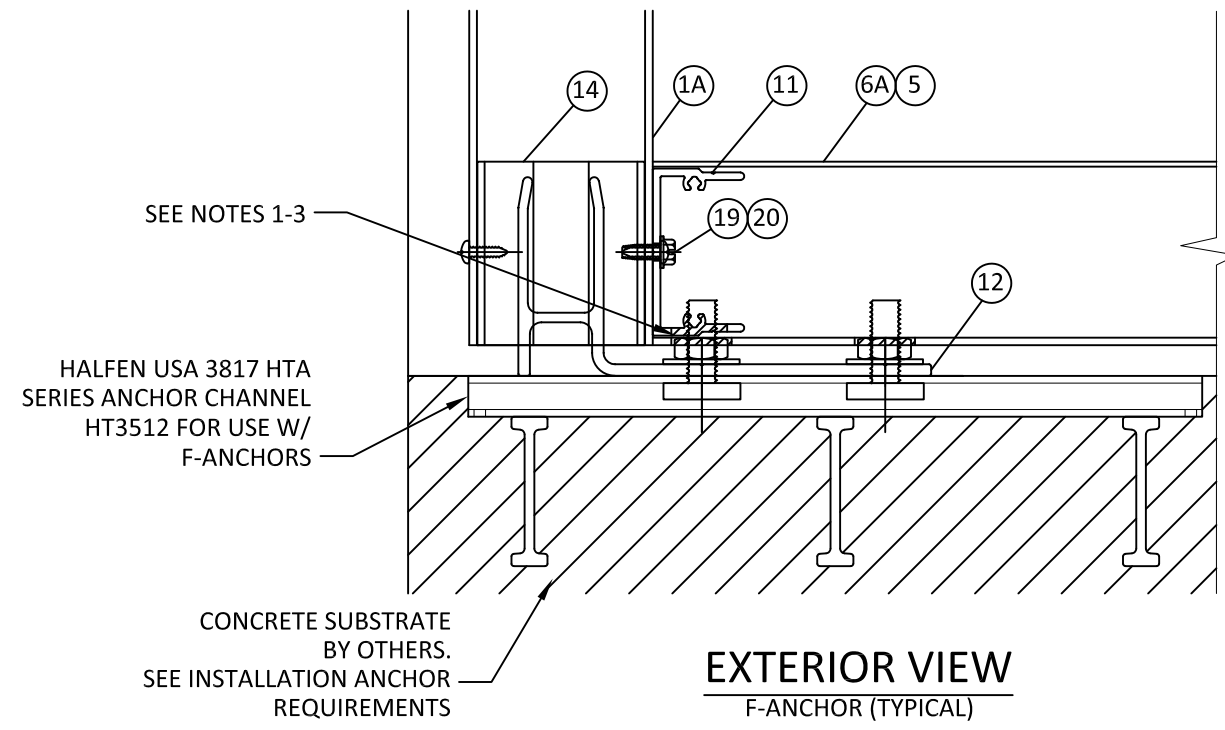
10 HORIZONTAL SECTION
7.3 T-ANCHOR CONFIG 1

NOTE:

- ANCHORS SHOWN HEREIN HAVE BEEN SPECIFIED PER ANCHOR MANUFACTURER'S RECOMMENDATIONS. CAST IN ANCHOR CHANNELS, HT3512 SHALL BE USED WITH F-ANCHORS AND HT6112 SHALL BE USED WITH T-ANCHORS.
- ANCHOR BOLT EXTENSIONS MAY BE CLIPPED TO T.O. HEX NUT AND SHEAR BLOCKS MAY BE NOTCHED TO ALLOW FOR ANCHOR CLEARANCE.
- REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE

NOTE:

- STANDARD DUTY MEMBERS SHOWN. LIGHT DUTY WITH SAME END ANCHORS ARE SIMILAR. HEAVY DUTY MULLIONS ARE SIMILAR WITH E1-3034 (INTERMEDIATE VERTICAL MULLION) ITEM #99 & E1-3035 (JAMB MULLION) ITEM #100 END ANCHORS.



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F & T - ANCHOR DETAILS

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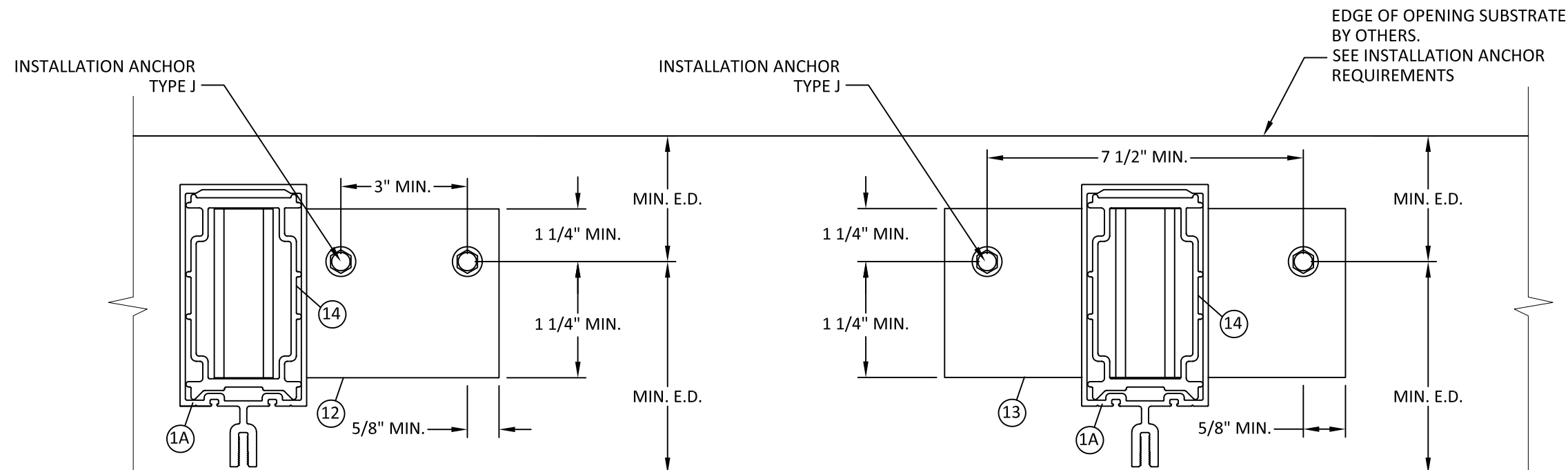


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BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
TBPE FIRM No. 13734

DATE: 08.24.21
DWG. BY: MS CHK. BY: HFN
SCALE: NTS
DWG. #: YKK280
SECTION: 7.3
[PAGE 44 OF 72]

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
 F & T - ANCHOR DETAILS

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11 HORIZONTAL SECTION
7.4
 F-ANCHOR CONFIG 1

12 HORIZONTAL SECTION
7.4
 T-ANCHOR CONFIG 1

NOTE:
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REMARKS	BY	DATE

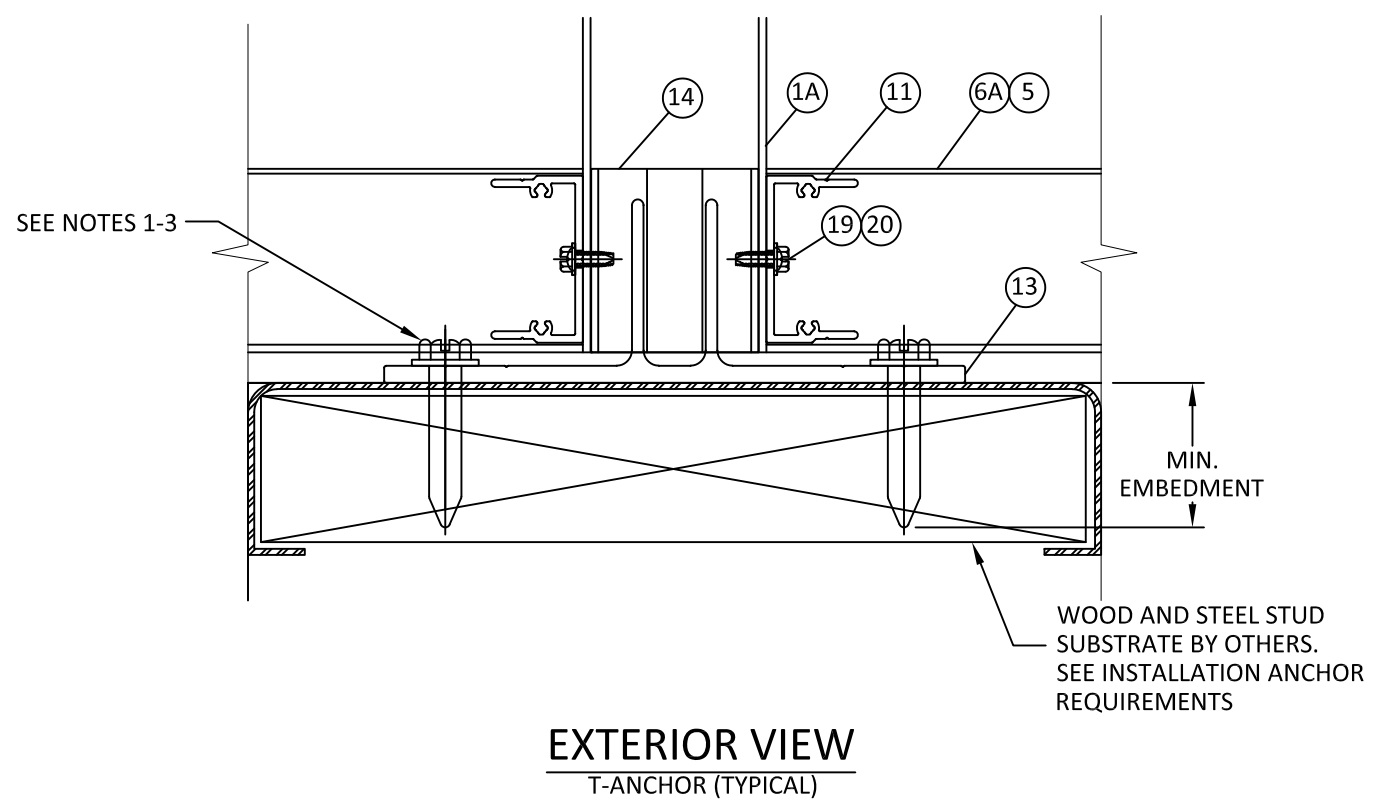
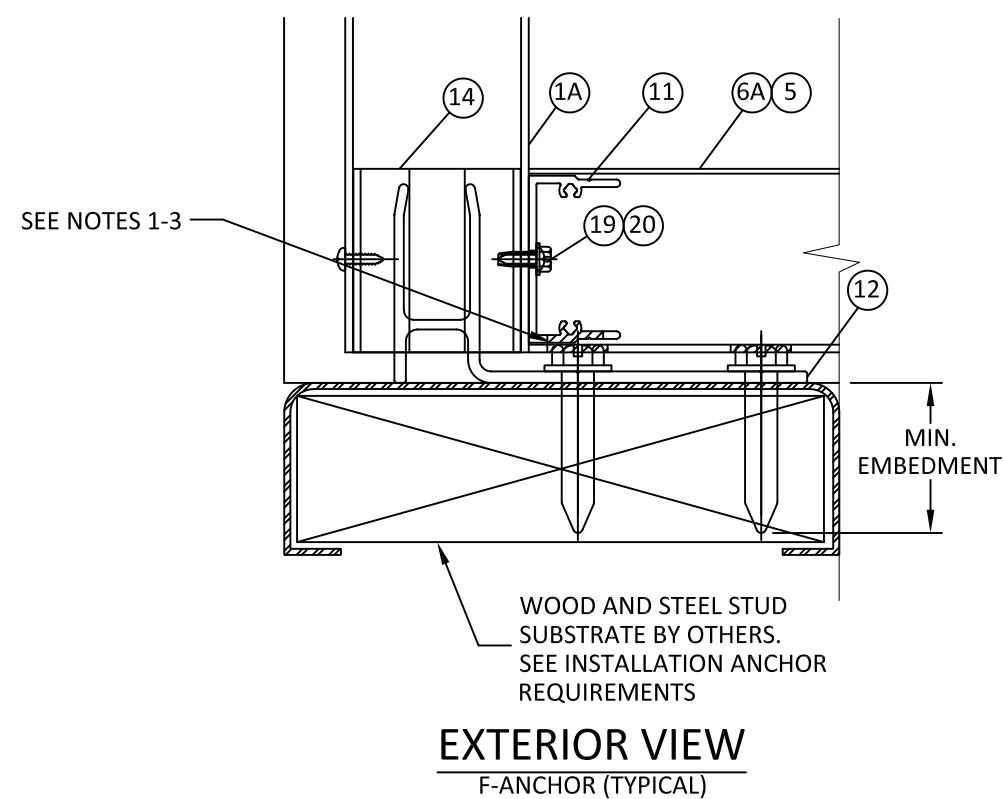
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 TBPE FIRM No. 13734

DATE: **08.24.21**
 DWG. BY: **MS** CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **YKK280**

SECTION:
7.4
 [PAGE 45 OF 72]



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TITLE: **YHC - 300 OG**
CURTAIN WALL SYSTEM
F, T & S - ANCHOR DETAILS

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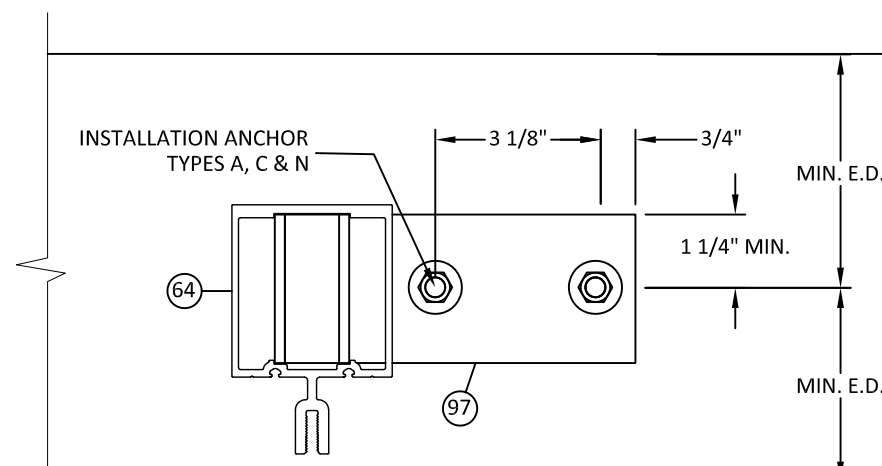
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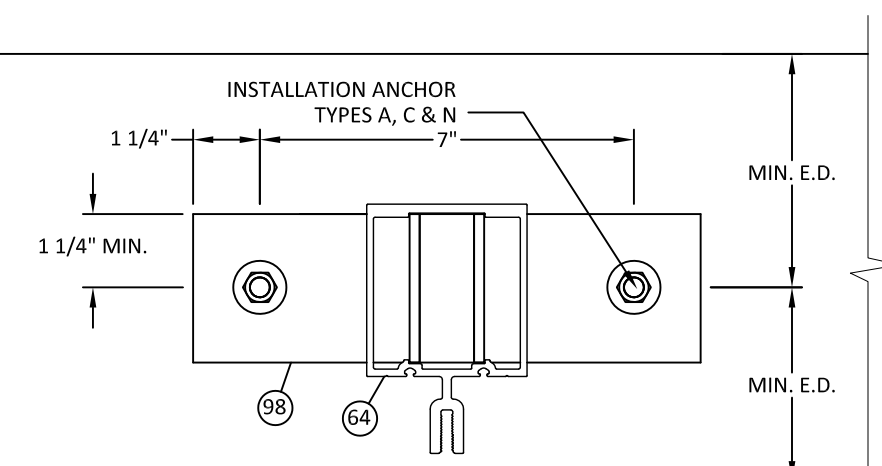
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SECTION: **7.5**

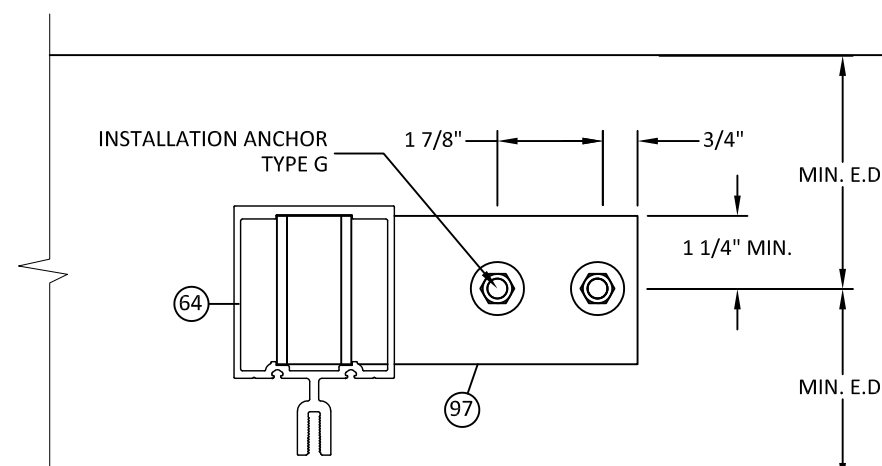
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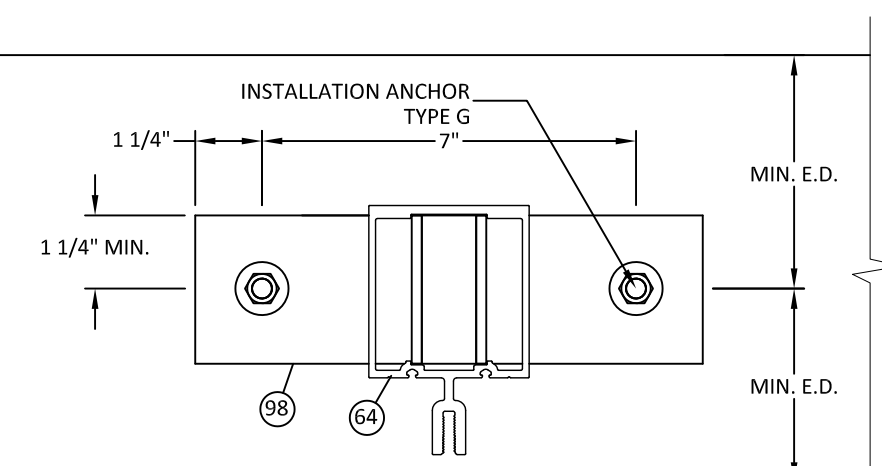
13
7.5 **HORIZONTAL SECTION**
F-ANCHOR
CONFIG 1 - CONCRETE OR STRUC. STEEL



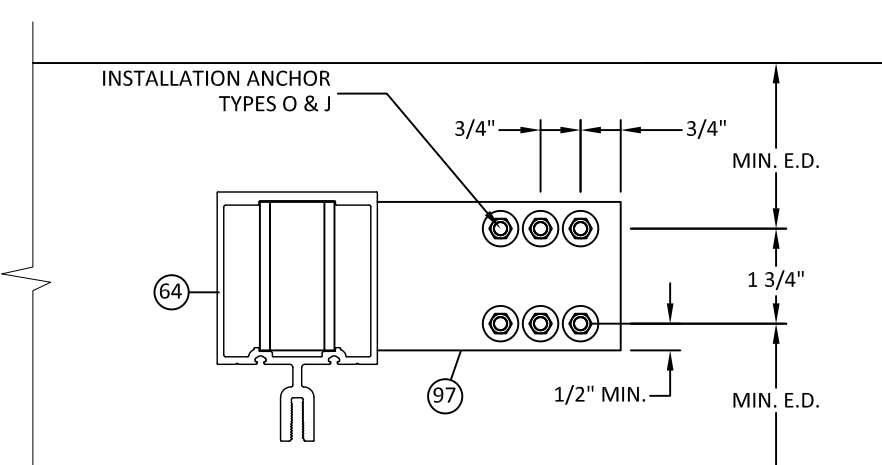
14
7.5 **HORIZONTAL SECTION**
T-ANCHOR
CONFIG 1 - CONCRETE OR STRUC. STEEL



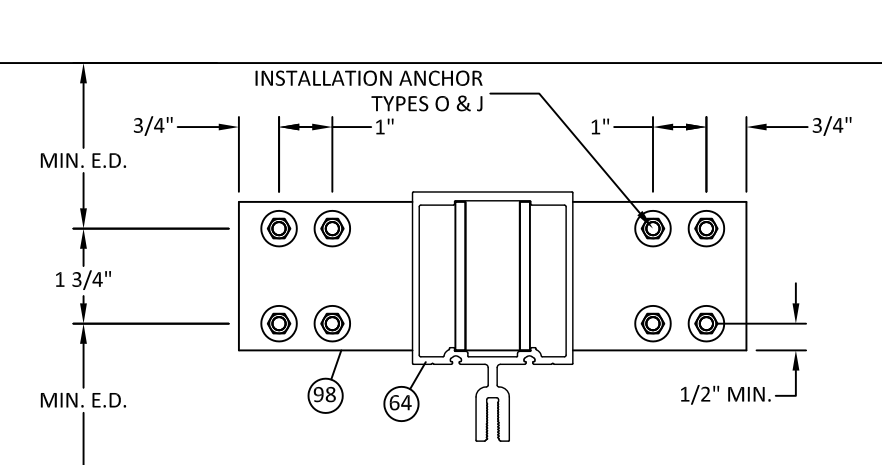
15
7.5 **HORIZONTAL SECTION**
F-ANCHOR
CONFIG 2 - STRUC. STEEL



16
7.5 **HORIZONTAL SECTION**
T-ANCHOR
CONFIG 2 - STRUC. STEEL



17
7.5 **HORIZONTAL SECTION**
F-ANCHOR
CONFIG 3 - WOOD/METAL STUD



18
7.5 **HORIZONTAL SECTION**
T-ANCHOR
CONFIG 3 - WOOD/METAL STUD

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

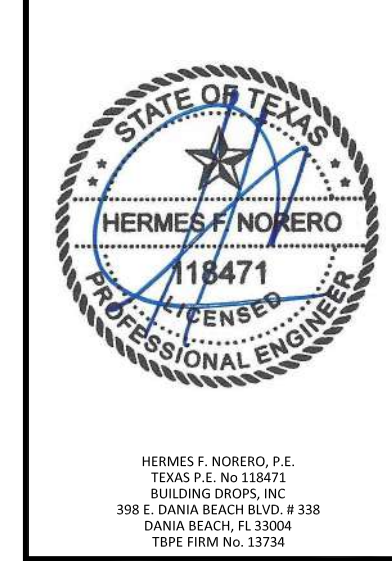
10/30/2021 7:22 PM s:\projects\ykk.ap.america, inc.\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 7 - f-t s anchor dtls.dwg

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
 F & T - 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



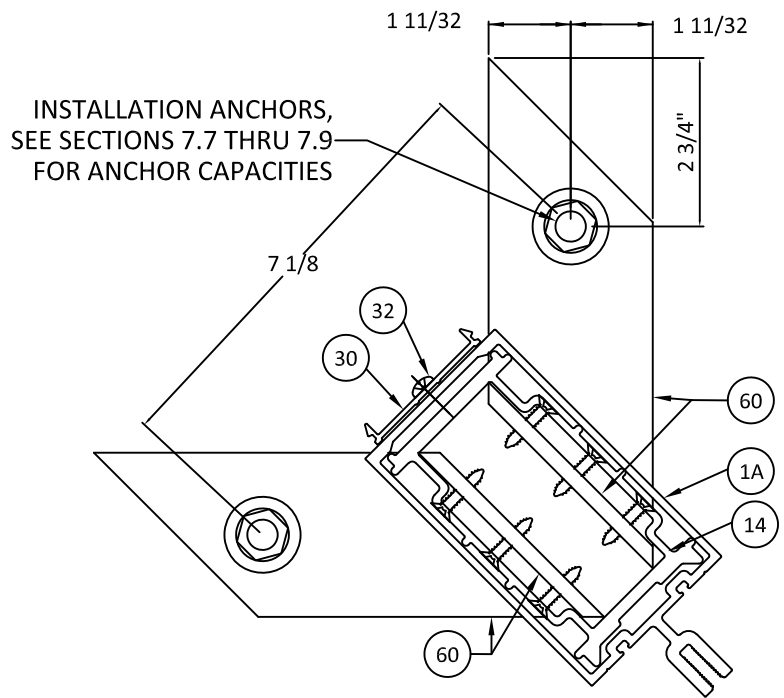
DATE: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

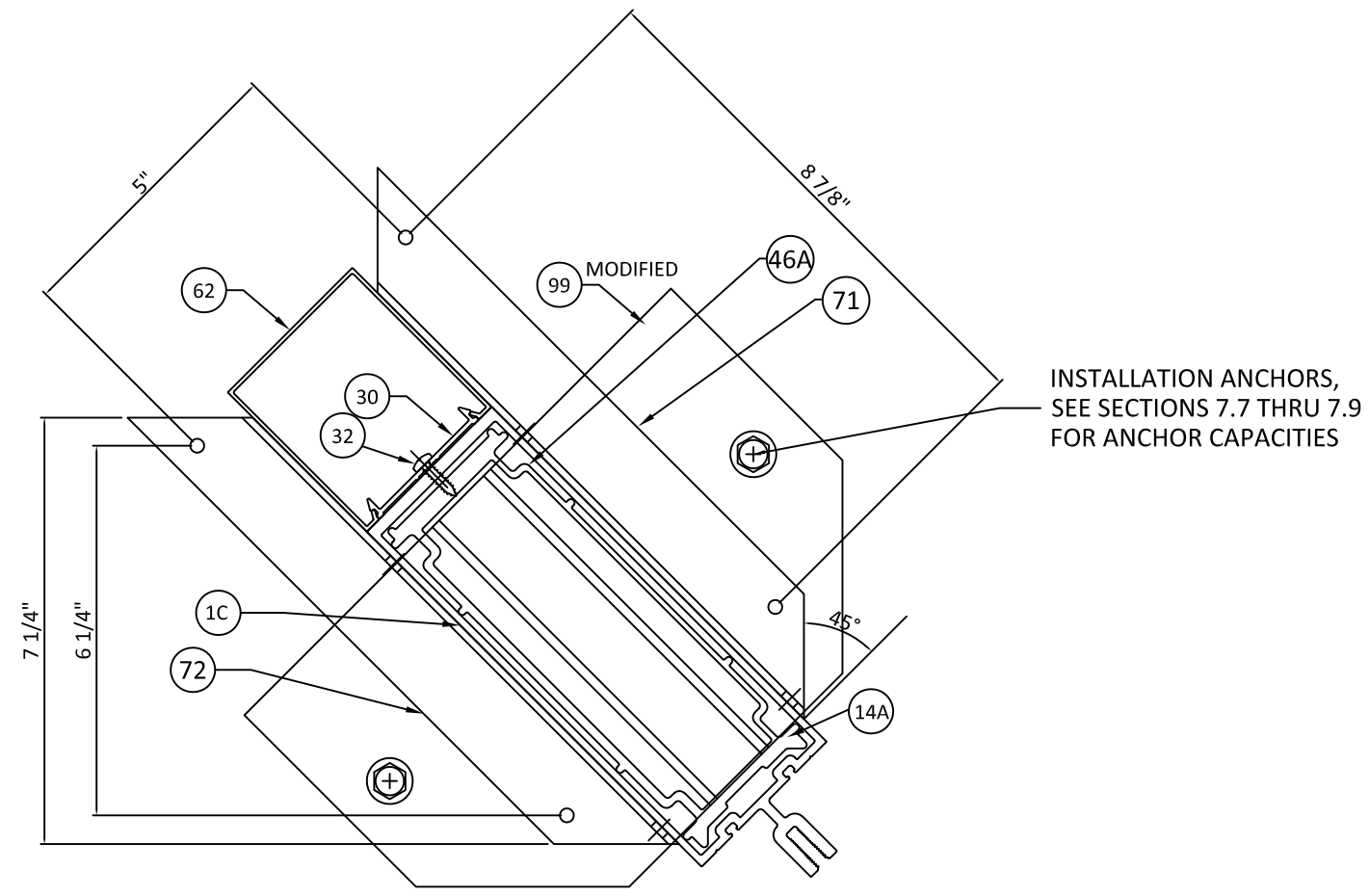
SCALE: **NTS**

DWG. #: **YKK280**

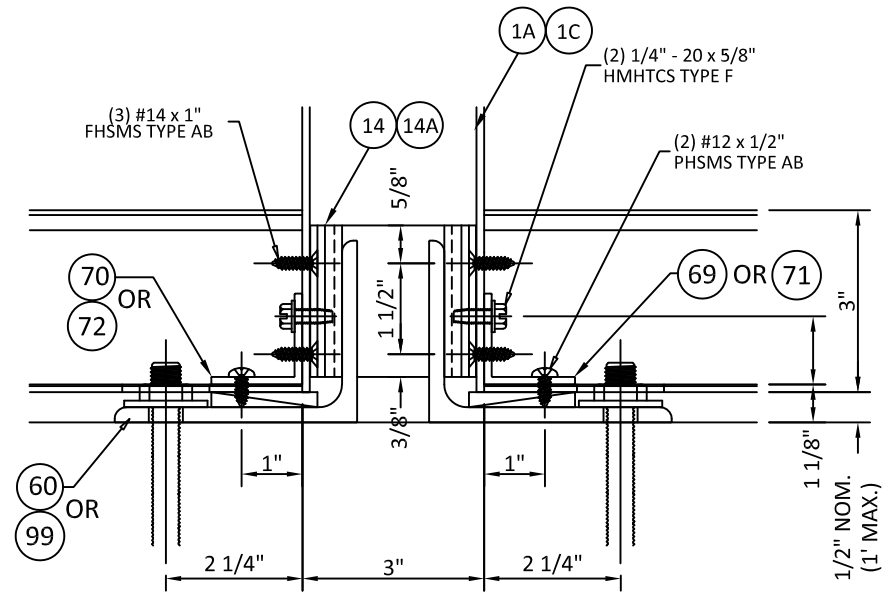
SECTION: **7.6**
 [PAGE 47 OF 72]



19 HORIZONTAL SECTION
7.6 STANDARD CORNER MULLION ANCHOR



19A HORIZONTAL SECTION
7.6 HEAVY DUTY CORNER MULLION ANCHOR

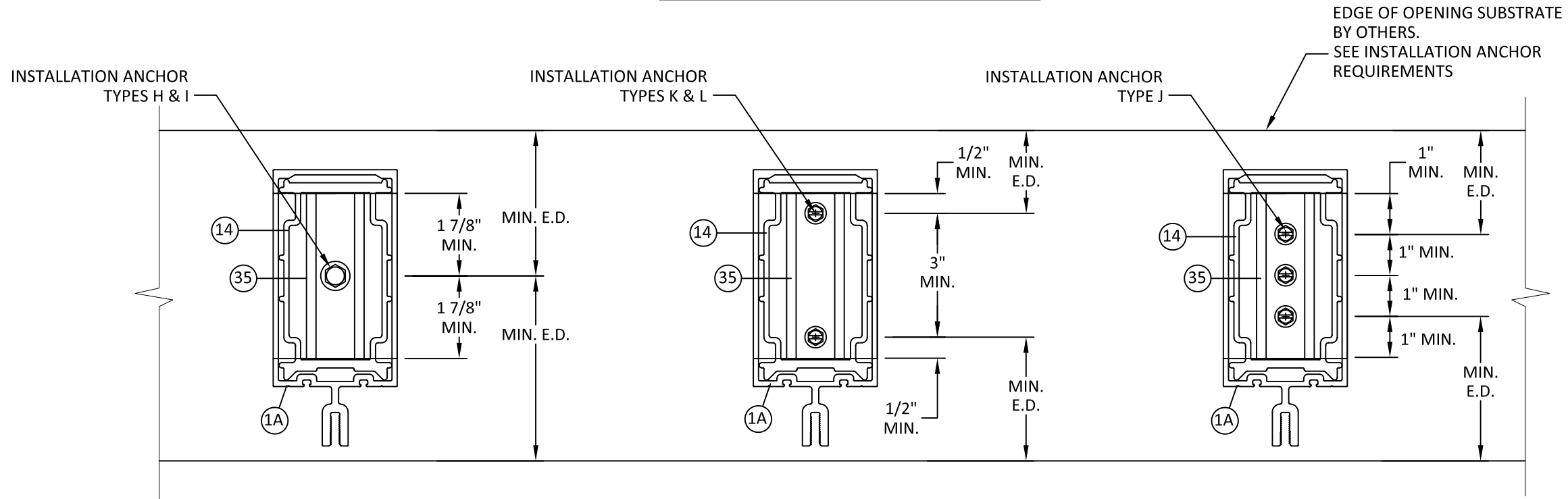


CORNER MULLION ANCHORS
 FRONT VIEW

NOTE:
 1. STANDARD DUTY MEMBERS SHOWN (DETAIL 19/7.6). LIGHT DUTY WITH SAME END ANCHORS ARE SIMILAR.
 2. HEAVY DUTY MULLIONS SHOWN (DETAIL 19A/7.6)

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S ANCHOR DETAILS



21
7.7 HORIZONTAL SECTION
S-ANCHOR CONFIG 4

22
7.7 HORIZONTAL SECTION
S-ANCHOR CONFIG 5

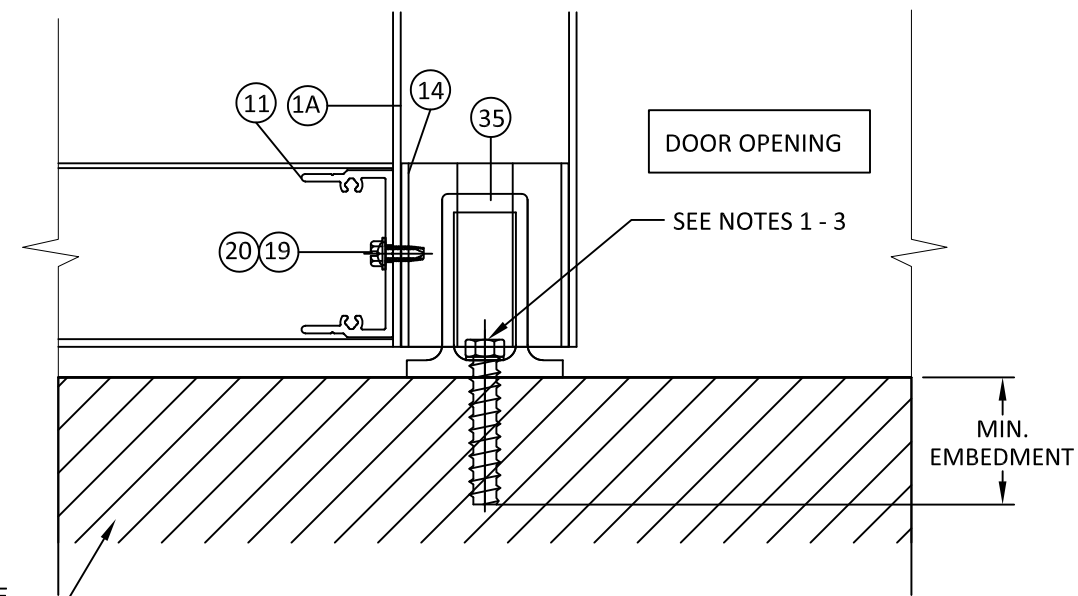
23
7.7 HORIZONTAL SECTION
S-ANCHOR CONFIG 6

NOTE:

1. ANCHORS SHOWN HEREIN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL ANCHOR IDENTIFICATION SHALL BE PER ANCHOR MANUFACTURERS INSTALLATION INSTRUCTIONS REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE.
2. ALTERNATIVELY, F-ANCHORS MAY BE USED IN LIEU OF S-ANCHORS AT DOOR JAMB TO SIDELITE LOCATIONS. REFER TO SECTIONS 7.1 THRU 7.6 FOR DETAILS & SECTION 7.9 FOR F-ANCHOR CAPACITIES.

NOTE:

1. STANDARD DUTY MEMBERS SHOWN. LIGHT DUTY WITH SAME END ANCHORS ARE SIMILAR. HEAVY DUTY MULLIONS ARE SIMILAR WITH E1-3038, ITEM #67.



EXTERIOR VIEW
S-ANCHOR (TYPICAL)



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG
CURTAIN WALL SYSTEM
S - 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: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

SECTION:
7.7
[PAGE 48 OF 72]

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SINGLE SPAN & MULTI SPAN F & T ANCHOR CAPACITIES



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG CURTAIN WALL SYSTEM
F & T - ANCHOR CAPACITY

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: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

SECTION:
7.8A
[PAGE 50 OF 72]

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MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)																	
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
		36	168	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
42	90.0	90.0		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	52.3	
48	80.4	90.0		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	80.4	90.0	80.4	45.8
54	71.4	90.0		89.3	90.0	90.0	90.0	90.0	90.0	86.0	90.0	90.0	90.0	71.4	90.0	71.4	40.7
60	64.3	90.0		80.4	90.0	90.0	90.0	90.0	90.0	77.4	90.0	90.0	90.0	64.3	90.0	64.3	36.6
66	58.4	90.0		73.1	90.0	90.0	90.0	90.0	90.0	70.4	90.0	90.0	90.0	58.4	90.0	58.4	33.3
72	53.6	90.0		67.0	90.0	90.0	90.0	90.0	83.0	64.5	89.3	83.0	83.0	53.6	90.0	53.6	30.5
36	174	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	58.9	
42		88.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	88.7	90.0	88.7	50.5
48		77.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	77.6	90.0	77.6	44.2
54		69.0	90.0	86.2	90.0	90.0	90.0	90.0	90.0	83.0	90.0	90.0	90.0	69.0	90.0	69.0	39.3
60		62.1	90.0	77.6	90.0	90.0	90.0	90.0	90.0	74.7	90.0	90.0	90.0	62.1	90.0	62.1	35.3
66		56.4	90.0	70.5	90.0	90.0	90.0	90.0	87.5	67.9	90.0	87.5	87.5	56.4	90.0	56.4	32.1
72		51.7	90.0	64.7	90.0	90.0	90.0	90.0	80.2	62.3	86.2	80.2	80.2	51.7	90.0	51.7	29.4
36	180	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	56.9	
42		85.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	85.7	90.0	85.7	48.8	
48		75.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	75.0	90.0	75.0	42.7
54		66.7	90.0	83.3	90.0	90.0	90.0	90.0	90.0	80.3	90.0	90.0	90.0	66.7	90.0	66.7	38.0
60		60.0	90.0	75.0	90.0	90.0	90.0	90.0	90.0	72.2	90.0	90.0	90.0	60.0	90.0	60.0	34.2
66		54.5	90.0	68.2	90.0	90.0	90.0	90.0	84.5	65.7	90.0	84.5	84.5	54.5	90.0	54.5	31.1
72		50.0	90.0	62.5	90.0	90.0	90.0	90.0	77.5	60.2	83.3	77.5	77.5	50.0	90.0	50.0	28.5
36	186	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	55.1	
42		82.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	82.9	90.0	82.9	47.2	
48		72.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0	87.4	90.0	90.0	90.0	72.6	90.0	72.6	41.3
54		64.5	90.0	80.6	90.0	90.0	90.0	90.0	90.0	77.7	90.0	90.0	90.0	64.5	90.0	64.5	36.7
60		58.1	90.0	72.6	90.0	90.0	90.0	90.0	90.0	69.9	90.0	90.0	90.0	58.1	90.0	58.1	33.1
66		52.8	90.0	66.0	90.0	90.0	90.0	90.0	81.8	63.6	88.0	81.8	81.8	52.8	90.0	52.8	30.1
72		48.4	87.4	60.5	87.4	87.4	87.4	75.0	58.3	80.6	75.0	75.0	48.4	87.4	48.4	27.5	
36	192	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	53.4	
42		80.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	80.4	90.0	80.4	45.8
48		70.3	90.0	87.9	90.0	90.0	90.0	90.0	90.0	84.7	90.0	90.0	90.0	70.3	90.0	70.3	40.0
54		62.5	90.0	78.1	90.0	90.0	90.0	90.0	90.0	75.3	90.0	90.0	90.0	62.5	90.0	62.5	35.6
60		56.3	90.0	70.3	90.0	90.0	90.0	90.0	87.2	67.7	90.0	87.2	87.2	56.3	90.0	56.3	32.0
66		51.1	90.0	63.9	90.0	90.0	90.0	90.0	79.3	61.6	85.2	79.3	79.3	51.1	90.0	51.1	29.1
72		46.9	84.7	58.6	84.6	84.6	84.7	72.7	56.4	78.1	72.7	72.7	46.9	84.7	46.9	26.7	
36	198	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	51.8	
42		77.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	77.9	90.0	77.9	44.4	
48		68.2	90.0	85.2	90.0	90.0	90.0	90.0	90.0	82.1	90.0	90.0	90.0	68.2	90.0	68.2	38.8
54		60.6	90.0	75.8	90.0	90.0	90.0	90.0	90.0	73.0	90.0	90.0	90.0	60.6	90.0	60.6	34.5
60		54.5	90.0	68.2	90.0	90.0	90.0	90.0	84.5	65.7	90.0	84.5	84.5	54.5	90.0	54.5	31.1
66		49.6	89.6	62.0	89.5	89.5	89.6	76.9	59.7	82.6	76.9	76.9	49.6	89.6	49.6	28.2	
72		45.5	82.1	56.8	82.1	82.1	82.1	70.5	54.7	75.8	70.5	70.5	45.5	82.1	45.5	25.9	
36	204	88.2	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	88.2	90.0	88.2	50.2	
42		75.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	75.6	90.0	75.6	43.1	
48		66.2	90.0	82.7	90.0	90.0	90.0	90.0	90.0	79.7	90.0	90.0	90.0	66.2	90.0	66.2	37.7
54		58.8	90.0	73.5	90.0	90.0	90.0	90.0	90.0	70.8	90.0	90.0	90.0	58.8	90.0	58.8	33.5
60		52.9	90.0	66.2	90.0	90.0	90.0	82.1	63.7	88.2	82.1	82.1	52.9	90.0	52.9	30.1	
66		48.1	86.9	60.2	86.9	86.9	86.9	74.6	57.9	80.2	74.6	74.6	48.1	86.9	48.1	27.4	
72		44.1	79.7	55.1	79.7	79.7	79.7	68.4	53.1	73.5	68.4	68.4	44.1	79.7	44.1	25.1	
36	210	85.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	85.7	90.0	85.7	48.8	
42		73.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0	88.5	90.0	90.0	90.0	73.5	90.0	73.5	41.8
48		64.3	90.0	80.4	90.0	90.0	90.0	90.0	90.0	77.4	90.0	90.0	90.0	64.3	90.0	64.3	36.6
54		57.1	90.0	71.4	90.0	90.0	90.0	88.6	68.8	90.0	88.6	88.6	57.1	90.0	57.1	32.5	
60		51.4	90.0	64.3	90.0	90.0	90.0	79.7	61.9	85.7	79.7	79.7	51.4	90.0	51.4	29.3	
66		46.8	84.4	58.4	84.4	84.4	84.4	72.5	56.3	77.9	72.5	72.5	46.8	84.4	46.8	26.6	
72		42.9	77.4	53.6	77.4	77.4	77.4	66.4	51.6	71.4	66.4	66.4	42.9	77.4	42.9	24.4	

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)																	
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
		36	216	83.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	83.3
42	71.4	90.0		89.3	90.0	90.0	90.0	90.0	90.0	86.0	90.0	90.0	90.0	71.4	90.0	71.4	40.7
48	62.5	90.0		78.1	90.0	90.0	90.0	90.0	90.0	75.3	90.0	90.0	90.0	62.5	90.0	62.5	35.6
54	55.6	90.0		69.4	90.0	90.0	90.0	90.0	86.1	66.9	90.0	86.1	86.1	55.6	90.0	55.6	31.6
60	50.0	90.0		62.5	90.0	90.0	90.0	90.0	77.5	60.2	83.3	77.5	77.5	50.0	90.0	50.0	28.5
66	45.5	82.1		56.8	82.1	82.1	82.1	70.5	54.7	75.8	70.5	70.5	45.5	82.1	45.5	25.9	
72	41.7	75.3		52.1	75.2	75.2	75.3	64.6	50.2	69.4	64.6	64.6	41.7	75.3	41.7	23.7	
36	222	81.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	81.1	90.0	81.1	46.2	
42		69.5	90.0	86.9	90.0	90.0	90.0	90.0	90.0	83.7	90.0	90.0	90.0	69.5	90.0	69.5	39.6
48		60.8	90.0	76.0	90.0	90.0	90.0	90.0	90.0	73.2	90.0	90.0	90.0	60.8	90.0	60.8	34.6
54		54.1	90.0	67.6	90.0	90.0	90.0	90.0	83.8	65.1	90.0	83.8	83.8	54.1	90.0	54.1	30.8
60		48.6	87.9	60.8	87.8	87.8	87.9	75.4	58.6	81.1	75.4	75.4	48.6	87.9	48.6	27.7	
66		44.2	79.9	55.3	79.9	79.9	79.9	68.6	53.2	73.7	68.6	68.6	44.2	79.9	44.2	25.2	
72		40.5	73.2	50.7	73.2	73.2	73.2	62.8	48.8	67							

SINGLE SPAN & MULTI SPAN

F ANCHOR CAPACITIES WHEN USED AT DOOR JAMB TO SIDELITE LOCATIONS

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)																
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
36	78	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	65.7
42		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	56.3
48		86.5	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	86.5	86.5	90.0	49.3
54		76.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	76.9	76.9	90.0	43.8
60		69.2	90.0	86.5	90.0	90.0	90.0	90.0	90.0	83.4	90.0	90.0	69.2	69.2	90.0	39.4
66		62.9	90.0	78.7	90.0	90.0	90.0	90.0	90.0	75.8	90.0	90.0	62.9	62.9	90.0	35.8
72		57.7	90.0	72.1	90.0	90.0	90.0	90.0	89.4	69.5	90.0	89.4	57.7	57.7	90.0	32.8
36	84	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	61.0
42		90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	52.3
48		80.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	80.4	80.4	90.0	45.8
54		71.4	90.0	89.3	90.0	90.0	90.0	90.0	90.0	86.0	90.0	90.0	71.4	71.4	90.0	40.7
60		64.3	90.0	80.4	90.0	90.0	90.0	90.0	90.0	77.4	90.0	90.0	64.3	64.3	90.0	36.6
66		58.4	90.0	73.1	90.0	90.0	90.0	90.0	90.0	70.4	90.0	90.0	58.4	58.4	90.0	33.3
72		53.6	90.0	67.0	90.0	90.0	90.0	90.0	83.0	64.5	89.3	83.0	53.6	53.6	90.0	30.5
36	90	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	56.9
42		85.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	85.7	85.7	90.0	48.8
48		75.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	75.0	75.0	90.0	42.7
54		66.7	90.0	83.3	90.0	90.0	90.0	90.0	90.0	80.3	90.0	90.0	66.7	66.7	90.0	38.0
60		60.0	90.0	75.0	90.0	90.0	90.0	90.0	90.0	72.2	90.0	90.0	60.0	60.0	90.0	34.2
66		54.5	90.0	68.2	90.0	90.0	90.0	90.0	84.5	65.7	90.0	84.5	54.5	54.5	90.0	31.1
72		50.0	90.0	62.5	90.0	90.0	90.0	90.0	77.5	60.2	83.3	77.5	50.0	50.0	90.0	28.5
36	96	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	53.4
42		80.4	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	80.4	80.4	90.0	80.4	45.8
48		70.3	90.0	87.9	90.0	90.0	90.0	90.0	90.0	84.7	90.0	90.0	70.3	70.3	90.0	40.0
54		62.5	90.0	78.1	90.0	90.0	90.0	90.0	90.0	75.3	90.0	90.0	62.5	62.5	90.0	35.6
60		56.3	90.0	70.3	90.0	90.0	90.0	90.0	87.2	67.7	90.0	87.2	56.3	56.3	90.0	32.0
66		51.1	90.0	63.9	90.0	90.0	90.0	90.0	79.3	61.6	85.2	79.3	51.1	51.1	90.0	29.1
72		46.9	84.7	58.6	84.6	84.6	84.7	72.7	56.4	78.1	72.7	46.9	46.9	84.7	46.9	26.7
36	102	88.2	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	88.2	88.2	90.0	88.2	50.2
42		75.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	75.6	75.6	90.0	75.6	43.1
48		66.2	90.0	82.7	90.0	90.0	90.0	90.0	90.0	79.7	90.0	90.0	66.2	66.2	90.0	37.7
54		58.8	90.0	73.5	90.0	90.0	90.0	90.0	90.0	70.8	90.0	90.0	58.8	58.8	90.0	33.5
60		52.9	90.0	66.2	90.0	90.0	90.0	90.0	82.1	63.7	88.2	82.1	52.9	52.9	90.0	30.1
66		48.1	86.9	60.2	86.9	86.9	86.9	74.6	57.9	80.2	74.6	48.1	48.1	86.9	48.1	27.4
72		44.1	79.7	55.1	79.7	79.7	79.7	68.4	53.1	73.5	68.4	44.1	44.1	79.7	44.1	25.1
36	108	83.3	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	83.3	83.3	90.0	83.3	47.4
42		71.4	90.0	89.3	90.0	90.0	90.0	90.0	86.0	90.0	90.0	71.4	71.4	90.0	71.4	40.7
48		62.5	90.0	78.1	90.0	90.0	90.0	90.0	90.0	75.3	90.0	90.0	62.5	62.5	90.0	35.6
54		55.6	90.0	69.4	90.0	90.0	90.0	90.0	86.1	66.9	90.0	86.1	55.6	55.6	90.0	31.6
60		50.0	90.0	62.5	90.0	90.0	90.0	90.0	77.5	60.2	83.3	77.5	50.0	50.0	90.0	28.5
66		45.5	82.1	56.8	82.1	82.1	82.1	70.5	54.7	75.8	70.5	45.5	45.5	82.1	45.5	25.9
72		41.7	75.3	52.1	75.2	75.2	75.3	64.6	50.2	69.4	64.6	41.7	41.7	75.3	41.7	23.7
36	114	78.9	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	78.9	78.9	90.0	78.9	44.9
42		67.7	90.0	84.6	90.0	90.0	90.0	90.0	81.5	90.0	90.0	67.7	67.7	90.0	67.7	38.5
48		59.2	90.0	74.0	90.0	90.0	90.0	90.0	71.3	90.0	90.0	59.2	59.2	90.0	59.2	33.7
54		52.6	90.0	65.8	90.0	90.0	90.0	90.0	81.6	63.4	87.7	81.6	52.6	52.6	90.0	30.0
60		47.4	85.6	59.2	85.5	85.5	85.6	73.4	57.0	78.9	73.4	47.4	47.4	85.6	47.4	27.0
66		43.1	77.8	53.8	77.8	77.8	77.8	66.7	51.8	71.8	66.7	43.1	43.1	77.8	43.1	24.5
72		39.5	71.3	49.3	71.3	71.3	71.3	61.2	47.5	65.8	61.2	39.5	39.5	71.3	39.5	22.5
36	120	75.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	75.0	75.0	90.0	75.0	42.7
42		64.3	90.0	80.4	90.0	90.0	90.0	90.0	77.4	90.0	90.0	64.3	64.3	90.0	64.3	36.6
48		56.3	90.0	70.3	90.0	90.0	90.0	90.0	87.2	67.7	90.0	87.2	56.3	56.3	90.0	32.0
54		50.0	90.0	62.5	90.0	90.0	90.0	90.0	77.5	60.2	83.3	77.5	50.0	50.0	90.0	28.5
60		45.0	81.3	56.3	81.3	81.3	81.3	69.8	54.2	75.0	69.8	45.0	45.0	81.3	45.0	25.6
66		40.9	73.9	51.1	73.9	73.9	73.9	63.4	49.3	68.2	63.4	40.9	40.9	73.9	40.9	23.3
72		37.5	67.7	46.9	67.7	67.7	67.7	58.1	45.2	62.5	58.1	37.5	37.5	67.7	37.5	21.4

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)																
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
36	126	71.4	90.0	89.3	90.0	90.0	90.0	90.0	90.0	86.0	90.0	90.0	71.4	71.4	90.0	40.7
42		61.2	90.0	76.5	90.0	90.0	90.0	90.0	90.0	73.7	90.0	90.0	61.2	61.2	90.0	34.9
48		53.6	90.0	67.0	90.0	90.0	90.0	90.0	83.0	64.5	89.3	83.0	53.6	53.6	90.0	30.5
54		47.6	86.0	59.5	86.0	86.0	86.0	73.8	57.3	79.4	73.8	47.6	47.6	86.0	47.6	27.1
60		42.9	77.4	53.6	77.4	77.4	77.4	66.4	51.6	71.4	66.4	42.9	42.9	77.4	42.9	24.4
66		39.0	70.4	48.7	70.3	70.4	70.4	60.4	46.9	64.9	60.4	39.0	39.0	70.4	39.0	22.2
72		35.7	64.5	44.6	64.5	64.5	64.5	55.4	43.0	59.5	55.4	35.7	35.7	64.5	35.7	20.3
36	132	68.2	90.0	85.2	90.0	90.0	90.0	90.0	90.0	82.1	90.0	90.0	68.2	68.2	90.0	38.8
42		58.4	90.0	73.1	90.0	90.0	90.0	90.0	90.0	70.4	90.0	90.0	58.4	58.4	90.0	33.3
48		51.1	90.0	63.9	90.0	90.0	90.0	90.0	79.3	61.6	85.2	79.3	51.1	51.1	90.0	29.1
54		45.5	82.1	56.8	82.1	82.1	82.1	70.5	54.7	75.8	70.5	45.5	45.5	82.1	45.5	25.9
60		40.9	73.9	51.1	73.9	73.9	73.9	63.4	49.3	68.2	63.4	40.9	40.9	73.9	40.9	23.3
66		37.2	67.2	46.5	67.1	67.2	67.2	57.6	44.8	62.0	57.6	37.2	37.2	67.2	37.2	21.2
72		34.1	61.6	42.6	61.6	61.6	61.6	52.8	41.0	56.8	52.8	34.1	34.1	61.6	34.1	19.4
36	138	65.2	90.0	81.5	90.0	90.0	90.0	90.0	90.0	78.5	90.0	90.0	65.2	65.2	90.0	37.1
42		55.9	90.0	69.9	90.0	90.0	90.0	90.0	86.6	67.3	90.0	86.6	55.9	55.9	90.0	31.8
48		48.9	88.3	61.1	88.3	88.3	88.3	75.8	58.9	81.5	75.8	48.9	48.9	88.3	48.9	27.8
54		43.5	78.5	54.3	78.5	78.5	78.5	67.4	52.3	72.5	67.4	43.5	43.5	78.5	43.5	24.8
60		39.1	70.7	48.9	70.7	70.7	70.7	60.7	47.1	65.2	60.7	39.1	39.1	70.7	39.1	22.3
66		35.6	64.3	44.5	64.2	64.2	64.3	55.1	42.8	59.3	55.1	35.6	35.6	64.3	35.6	20.3
72		32.6	58.9	40.8	58.9	58.9	58.9	50.5	39.3	54.3	50.5	32.6	32.6	58.9	32.6	18.6
36	144	62.5	90.0	78.1	90.0	90.0	90.0	90.0	90.0	75.3	90.0	90.0	62.5	62.5	90.0	35.6
42		53.6	90.0	67.0	90.0	90.0	90.0	90.0	83.0	64.5	89.3	83.0	53.6	53.6	90.0	30.5
48		46.9	84.7	58.6	84.6	84.6	84.7	72.7	56.4	78.1	72.7	46.9	46.9	84.7	46.9	26.7
54		4														

SINGLE SPAN & MULTI SPAN F ANCHOR CAPACITIES WHEN USED AT DOOR JAMB TO SIDELITE LOCATIONS



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)																
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
36	168	53.6	90.0	67.0	90.0	90.0	90.0	83.0	64.5	89.3	83.0	53.6	53.6	90.0	53.6	30.5
42		45.9	82.9	57.4	82.9	82.9	82.9	71.2	55.3	76.5	71.2	45.9	45.9	82.9	45.9	26.1
48		40.2	72.6	50.2	72.5	72.6	72.6	62.3	48.4	67.0	62.3	40.2	40.2	72.6	40.2	22.9
54		35.7	64.5	44.6	64.5	64.5	64.5	55.4	43.0	59.5	55.4	35.7	35.7	64.5	35.7	20.3
60		32.1	58.1	40.2	58.0	58.0	58.1	49.8	38.7	53.6	49.8	32.1	32.1	58.1	32.1	18.3
66		29.2	52.8	36.5	52.8	52.8	52.8	45.3	35.2	48.7	45.3	29.2	29.2	52.8	29.2	16.6
72		26.8	48.4	33.5	48.4	48.4	48.4	41.5	32.3	44.6	41.5	26.8	26.8	48.4	26.8	15.3
36	174	51.7	90.0	64.7	90.0	90.0	90.0	80.2	62.3	86.2	80.2	51.7	51.7	90.0	51.7	29.4
42		44.3	80.1	55.4	80.0	80.1	80.1	68.7	53.4	73.9	68.7	44.3	44.3	80.1	44.3	25.2
48		38.8	70.1	48.5	70.0	70.1	70.1	60.1	46.7	64.7	60.1	38.8	38.8	70.1	38.8	22.1
54		34.5	62.3	43.1	62.3	62.3	62.3	53.4	41.5	57.5	53.4	34.5	34.5	62.3	34.5	19.6
60		31.0	56.1	38.8	56.0	56.0	56.1	48.1	37.4	51.7	48.1	31.0	31.0	56.1	31.0	17.7
66		28.2	51.0	35.3	50.9	50.9	51.0	43.7	34.0	47.0	43.7	28.2	28.2	51.0	28.2	16.1
72		25.9	46.7	32.3	46.7	46.7	46.7	40.1	31.1	43.1	40.1	25.9	25.9	46.7	25.9	14.7
36	180	50.0	90.0	62.5	90.0	90.0	90.0	77.5	60.2	83.3	77.5	50.0	50.0	90.0	50.0	28.5
42		42.9	77.4	53.6	77.4	77.4	77.4	66.4	51.6	71.4	66.4	42.9	42.9	77.4	42.9	24.4
48		37.5	67.7	46.9	67.7	67.7	67.7	58.1	45.2	62.5	58.1	37.5	37.5	67.7	37.5	21.4
54		33.3	60.2	41.7	60.2	60.2	60.2	51.7	40.1	55.6	51.7	33.3	33.3	60.2	33.3	19.0
60		30.0	54.2	37.5	54.2	54.2	54.2	46.5	36.1	50.0	46.5	30.0	30.0	54.2	30.0	17.1
66		27.3	49.3	34.1	49.2	49.2	49.3	42.3	32.8	45.5	42.3	27.3	27.3	49.3	27.3	15.5
72		25.0	45.2	31.3	45.1	45.1	45.2	38.8	30.1	41.7	38.8	25.0	25.0	45.2	25.0	14.2
36	186	48.4	87.4	60.5	87.4	87.4	75.0	58.3	80.6	75.0	48.4	48.4	87.4	48.4	27.5	
42		41.5	74.9	51.8	74.9	74.9	74.9	64.3	49.9	69.1	64.3	41.5	41.5	74.9	41.5	23.6
48		36.3	65.5	45.4	65.5	65.5	65.5	56.3	43.7	60.5	56.3	36.3	36.3	65.5	36.3	20.7
54		32.3	58.3	40.3	58.2	58.3	58.3	50.0	38.8	53.8	50.0	32.3	32.3	58.3	32.3	18.4
60		29.0	52.4	36.3	52.4	52.4	52.4	45.0	35.0	48.4	45.0	29.0	29.0	52.4	29.0	16.5
66		26.4	47.7	33.0	47.7	47.7	47.7	40.9	31.8	44.0	40.9	26.4	26.4	47.7	26.4	15.0
72		24.2	43.7	30.2	43.7	43.7	43.7	37.5	29.1	40.3	37.5	24.2	24.2	43.7	24.2	13.8
36	192	46.9	84.7	58.6	84.6	84.6	72.7	56.4	78.1	72.7	46.9	46.9	84.7	46.9	26.7	
42		40.2	72.6	50.2	72.5	72.6	72.6	62.3	48.4	67.0	62.3	40.2	40.2	72.6	40.2	22.9
48		35.2	63.5	43.9	63.5	63.5	63.5	54.5	42.3	58.6	54.5	35.2	35.2	63.5	35.2	20.0
54		31.3	56.4	39.1	56.4	56.4	56.4	48.4	37.6	52.1	48.4	31.3	31.3	56.4	31.3	17.8
60		28.1	50.8	35.2	50.8	50.8	50.8	43.6	33.9	46.9	43.6	28.1	28.1	50.8	28.1	16.0
66		25.6	46.2	32.0	46.2	46.2	46.2	39.6	30.8	42.6	39.6	25.6	25.6	46.2	25.6	14.6
72		23.4	42.3	29.3	42.3	42.3	42.3	36.3	28.2	39.1	36.3	23.4	23.4	42.3	23.4	13.3
36	198	45.5	82.1	56.8	82.1	82.1	70.5	54.7	75.8	70.5	45.5	45.5	82.1	45.5	25.9	
42		39.0	70.4	48.7	70.3	70.4	70.4	60.4	46.9	64.9	60.4	39.0	39.0	70.4	39.0	22.2
48		34.1	61.6	42.6	61.6	61.6	61.6	52.8	41.0	56.8	52.8	34.1	34.1	61.6	34.1	19.4
54		30.3	54.7	37.9	54.7	54.7	54.7	47.0	36.5	50.5	47.0	30.3	30.3	54.7	30.3	17.3
60		27.3	49.3	34.1	49.2	49.2	49.3	42.3	32.8	45.5	42.3	27.3	27.3	49.3	27.3	15.5
66		24.8	44.8	31.0	44.8	44.8	44.8	38.4	29.9	41.3	38.4	24.8	24.8	44.8	24.8	14.1
72		22.7	41.1	28.4	41.0	41.0	41.1	35.2	27.4	37.9	35.2	22.7	22.7	41.1	22.7	12.9
36	204	44.1	79.7	55.1	79.7	79.7	79.7	68.4	53.1	73.5	68.4	44.1	44.1	79.7	44.1	25.1
42		37.8	68.3	47.3	68.3	68.3	68.3	58.6	45.5	63.0	58.6	37.8	37.8	68.3	37.8	21.5
48		33.1	59.8	41.4	59.7	59.8	59.8	51.3	39.8	55.1	51.3	33.1	33.1	59.8	33.1	18.8
54		29.4	53.1	36.8	53.1	53.1	53.1	45.6	35.4	49.0	45.6	29.4	29.4	53.1	29.4	16.7
60		26.5	47.8	33.1	47.8	47.8	47.8	41.0	31.9	44.1	41.0	26.5	26.5	47.8	26.5	15.1
66		24.1	43.5	30.1	43.4	43.5	43.5	37.3	29.0	40.1	37.3	24.1	24.1	43.5	24.1	13.7
72		22.1	39.8	27.6	39.8	39.8	39.8	34.2	26.6	36.8	34.2	22.1	22.1	39.8	22.1	12.6
36	210	42.9	77.4	53.6	77.4	77.4	77.4	66.4	51.6	71.4	66.4	42.9	42.9	77.4	42.9	24.4
42		36.7	66.4	45.9	66.3	66.3	66.4	56.9	44.2	61.2	56.9	36.7	36.7	66.4	36.7	20.9
48		32.1	58.1	40.2	58.0	58.0	58.1	49.8	38.7	53.6	49.8	32.1	32.1	58.1	32.1	18.3
54		28.6	51.6	35.7	51.6	51.6	51.6	44.3	34.4	47.6	44.3	28.6	28.6	51.6	28.6	16.3
60		25.7	46.4	32.1	46.4	46.4	46.4	39.9	31.0	42.9	39.9	25.7	25.7	46.4	25.7	14.6
66		23.4	42.2	29.2	42.2	42.2	42.2	36.2	28.1	39.0	36.2	23.4	23.4	42.2	23.4	13.3
72		21.4	38.7	26.8	38.7	38.7	38.7	33.2	25.8	35.7	33.2	21.4	21.4	38.7	21.4	12.2

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)																	
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
36	216	41.7	75.3	52.1	75.2	75.2	75.3	64.6	50.2	69.4	64.6	41.7	41.7	75.3	41.7	23.7	
42		35.7	64.5	44.6	64.5	64.5	64.5	55.4	43.0	59.5	55.4	35.7	35.7	64.5	35.7	20.3	
48		31.3	56.4	39.1	56.4	56.4	56.4	48.4	37.6	52.1	48.4	31.3	31.3	56.4	31.3	17.8	
54		27.8	50.2	34.7	50.2	50.2	50.2	43.1	33.4	46.3	43.1	27.8	27.8	50.2	27.8	15.8	
60		25.0	45.2	31.3	45.1	45.1	45.1	45.2	38.8	30.1	41.7	38.8	25.0	25.0	45.2	25.0	14.2
66		22.7	41.1	28.4	41.0	41.0	41.1	35.2	27.4	37.9	35.2	22.7	22.7	41.1	22.7	12.9	
72		20.8	37.6	26.0	37.6	37.6	37.6	32.3	25.1	34.7	32.3	20.8	20.8	37.6	20.8	11.9	
36	222	40.5	73.2	50.7	73.2	73.2	73.2	62.8	48.8	67.6	62.8	40.5	40.5	73.2	40.5	23.1	
42		34.7	62.8	43.4	62.7	62.7	62.8	53.9	41.8	57.9	53.9	34.7	34.7	62.8	34.7	19.8	
48		30.4	54.9	38.0	54.9	54.9	54.9	47.1	36.6	50.7	47.1	30.4	30.4	54.9	30.4	17.3	
54		27.0	48.8	33.8	48.8	48.8	48.8	41.9	32.5	45.0	41.9	27.0	27.0	48.8	27.0	15.4	
60		24.3	43.9	30.4	43.9	43.9	43.9	37.7	29.3	40.5	37.7	24.3	24.3	43.9	24.3	13.8	
66		22.1	39.9	27.6	39.9	39.9	39.9	34.3	26.6	36.9	34.3	22.1	22.1	39.9	22.1	12.6	
72		20.3	36.6	25.3	36.6	36.6	36.6	31.4	24.4	33.8	31.4	20.3	20.3	36.6	20.3	11.5	
36	228	39.5	71.3	49.3	71.3	71.3	71.3	61.2	47.5	65.8	61.2	39.5	39.5	71.3	39.5	22.5	
42		33.8	61.1	42.3	61.1	61.1	61.1	52.4	40.7	56.4	52.4	33.8	33.8	61.1	33.8	19.3	
48		29.6	53.5	37.0	53.5	53.5	53.5	45.9	35.6	49.3	45.9	29.6	29.6	53.5	29.6	16.9	
54		26.3	47.5	32.9	47.5	47.5	47.5	40.8	31.7	43.9	40.8	26.3	26.3	47.5	26.3	15.0	
60		23.7	42.8	29.6	42.8	42.8	42.8	36.7	28.5	39.5	36.7	23.7	23.7	42.8	23.7	13.5	
66		21.5	38.9	26.9	38.9	38.9	38.9	33.4	25.9	35.9	33.4	21.5	21.5	38.9	21.5	12.3	
72		19.7	35.6	24.7	35.6	35.6	35.6	30.6	23.8	32.9	30.6	19.7	19.7	35.6	19.7	11.2	
36	234	38.5	69.5	48.1	69.4	69.5	69.5	59.6	46.3	64.1	59.6	38.5	38.5	69.5	38.5	21.9	
42		33.0	59.5	41.2	59.5	59.5	59.5	51.1	39.7	54.9	51.1	33.0	33.0	59.5	33.0	18.8	

SINGLE SPAN & MULTI SPAN S ANCHOR CAPACITIES

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)						
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	H	I	J	K	L
36	78	90.0	90.0	90.0	46.2	90.0
42		90.0	90.0	90.0	39.6	90.0
48		85.4	90.0	90.0	34.6	86.2
54		75.9	90.0	90.0	30.8	76.6
60		68.3	83.1	90.0	27.7	68.9
66		62.1	75.5	90.0	25.2	62.7
72		56.9	69.2	86.3	23.1	57.4
36	84	90.0	90.0	90.0	42.9	90.0
42		90.0	90.0	90.0	36.7	90.0
48		79.3	90.0	90.0	32.1	80.0
54		70.5	85.7	90.0	28.6	71.1
60		63.4	77.1	90.0	25.7	64.0
66		57.7	70.1	87.4	23.4	58.2
72		52.9	64.3	80.1	21.4	53.3
36	90	90.0	90.0	90.0	40.0	90.0
42		84.6	90.0	90.0	34.3	85.3
48		74.0	90.0	90.0	30.0	74.7
54		65.8	80.0	90.0	26.7	66.4
60		59.2	72.0	89.8	24.0	59.7
66		53.8	65.5	81.6	21.8	54.3
72		49.3	60.0	74.8	20.0	49.8
36	96	90.0	90.0	90.0	37.5	90.0
42		79.3	90.0	90.0	32.1	80.0
48		69.4	84.4	90.0	28.1	70.0
54		61.7	75.0	90.0	25.0	62.2
60		55.5	67.5	84.2	22.5	56.0
66		50.5	61.4	76.5	20.5	50.9
72		46.3	56.3	70.1	18.8	46.7
36	102	87.1	90.0	90.0	35.3	87.8
42		74.6	90.0	90.0	30.3	75.3
48		65.3	79.4	90.0	26.5	65.9
54		58.0	70.6	88.0	23.5	58.6
60		52.2	63.5	79.2	21.2	52.7
66		47.5	57.8	72.0	19.3	47.9
72		43.5	52.9	66.0	17.6	43.9
36	108	82.2	90.0	90.0	33.3	83.0
42		70.5	85.7	90.0	28.6	71.1
48		61.7	75.0	90.0	25.0	62.2
54		54.8	66.7	83.1	22.2	55.3
60		49.3	60.0	74.8	20.0	49.8
66		44.8	54.5	68.0	18.2	45.3
72		41.1	50.0	62.3	16.7	41.5
36	114	77.9	90.0	90.0	31.6	78.6
42		66.8	81.2	90.0	27.1	67.4
48		58.4	71.1	88.6	23.7	58.9
54		51.9	63.2	78.7	21.1	52.4
60		46.7	56.8	70.9	18.9	47.2
66		42.5	51.7	64.4	17.2	42.9
72		38.9	47.4	59.1	15.8	39.3

MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)						
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	H	I	J	K	L
36	120	74.0	90.0	90.0	30.0	74.7
42		63.4	77.1	90.0	25.7	64.0
48		55.5	67.5	84.2	22.5	56.0
54		49.3	60.0	74.8	20.0	49.8
60		44.4	54.0	67.3	18.0	44.8
66		40.4	49.1	61.2	16.4	40.7
72		37.0	45.0	56.1	15.0	37.3
36	126	70.5	85.7	90.0	28.6	71.1
42		60.4	73.5	90.0	24.5	61.0
48		52.9	64.3	80.1	21.4	53.3
54		47.0	57.1	71.2	19.0	47.4
60		42.3	51.4	64.1	17.1	42.7
66		38.4	46.8	58.3	15.6	38.8
72		35.2	42.9	53.4	14.3	35.6
36	132	67.3	81.8	90.0	27.3	67.9
42		57.7	70.1	87.4	23.4	58.2
48		50.5	61.4	76.5	20.5	50.9
54		44.8	54.5	68.0	18.2	45.3
60		40.4	49.1	61.2	16.4	40.7
66		36.7	44.6	55.6	14.9	37.0
72		33.6	40.9	51.0	13.6	33.9
36	138	64.3	78.3	90.0	26.1	64.9
42		55.2	67.1	83.6	22.4	55.7
48		48.3	58.7	73.2	19.6	48.7
54		42.9	52.2	65.0	17.4	43.3
60		38.6	47.0	58.5	15.7	39.0
66		35.1	42.7	53.2	14.2	35.4
72		32.2	39.1	48.8	13.0	32.5
36	144	61.7	75.0	90.0	25.0	62.2
42		52.9	64.3	80.1	21.4	53.3
48		46.3	56.3	70.1	18.8	46.7
54		41.1	50.0	62.3	16.7	41.5
60		37.0	45.0	56.1	15.0	37.3
66		33.6	40.9	51.0	13.6	33.9
72		30.8	37.5	46.8	12.5	31.1
36	150	59.2	72.0	89.8	24.0	59.7
42		50.7	61.7	76.9	20.6	51.2
48		44.4	54.0	67.3	18.0	44.8
54		39.5	48.0	59.8	16.0	39.8
60		35.5	43.2	53.9	14.4	35.8
66		32.3	39.3	49.0	13.1	32.6
72		29.6	36.0	44.9	12.0	29.9

NOTE:

- REFER TO SECTION 7.0 THRU 7.7 FOR DETAILS OF ANCHOR REQUIREMENTS. AND DETERMINING MAX. SPAN 'H' AND TRIBUTARY WIDTHS 'W'
- SEE SECTION 2, TWIN SPAN ELEVATION FOR LOCATION OF F-ANCHOR WHEN USED AT VERTICAL MULLION BETWEEN DOOR AND D.L.O.



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC - 300 OG
CURTAIN WALL SYSTEM

S - ANCHOR CAPACITY

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: 08.24.21

DWG. BY: MS **CHK. BY:** HFN

SCALE: NTS

DWG. #: YKK280

SECTION: 7.10

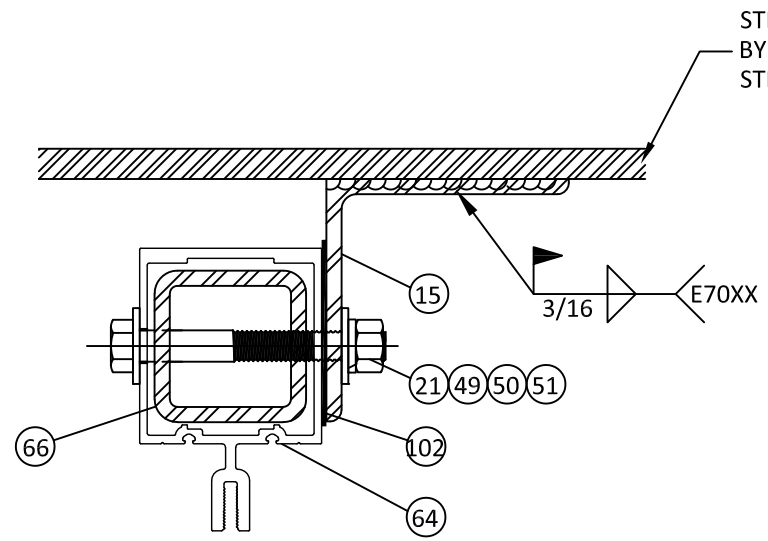
[PAGE 53 OF 72]

10/30/2021 7:23 PM s:\projects\ykk_ap_america, inc.\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 7 - ft s anchor dtls.dwg

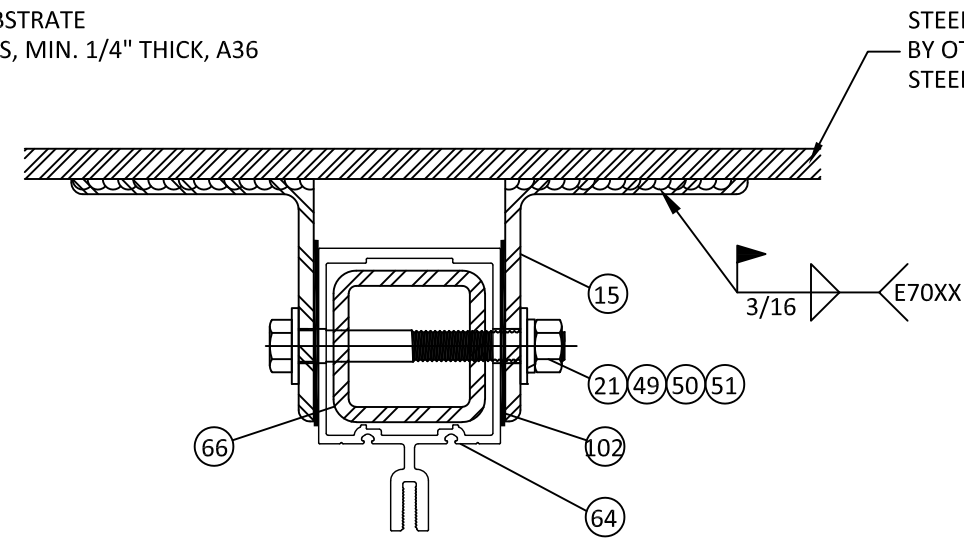
TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
 WIND LOAD ANCHOR DETAILS

PREPARED BY: **BUILDING DROPS, INC.**
 398 E. DANIA BEACH BLVD., STE. 338
 DANIA BEACH, FL 33004
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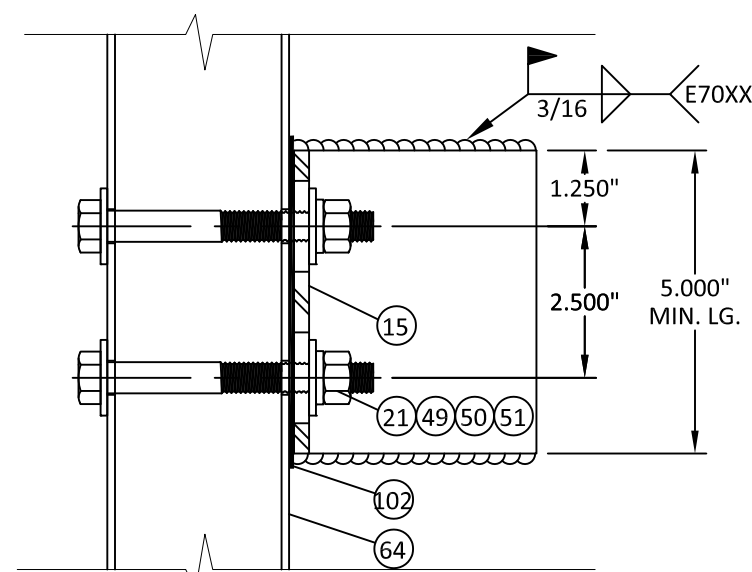
WL ANCHOR CAPACITY		
MAX. TRIBUTARY WIDTH 'W'	MAX. SPAN 'H'	MAX. DESIGN PRESSURE
74"	150"	+/- 55 PSF



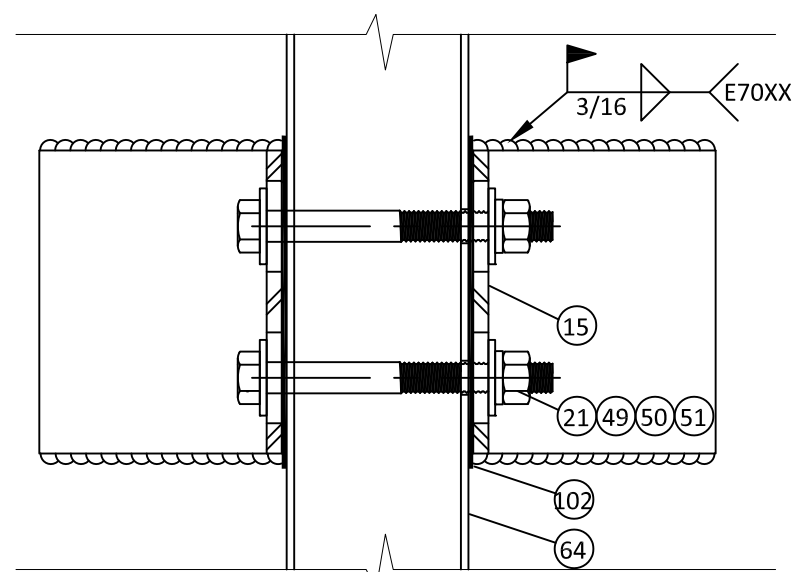
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8.0
HORIZONTAL SECTION
 WIND LOAD ANCHOR AT JAMB



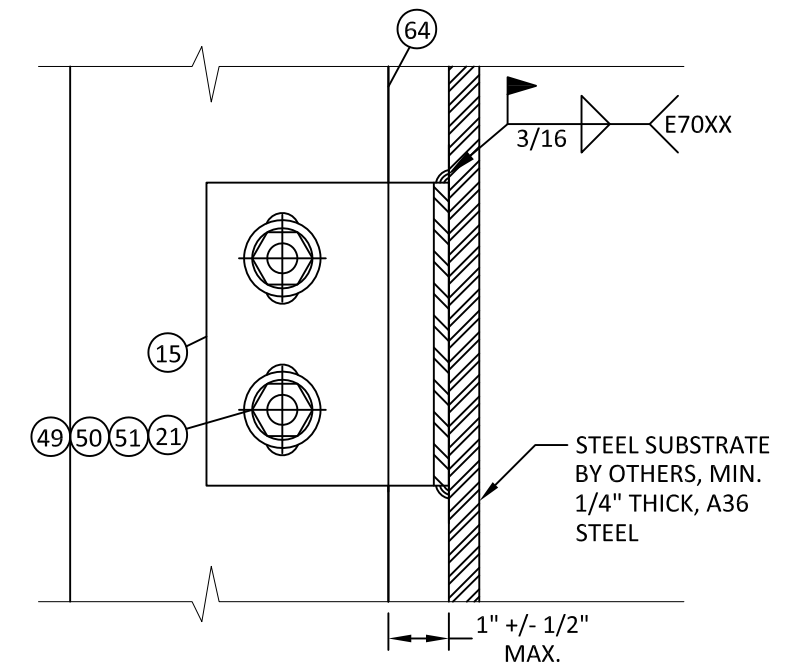
25
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HORIZONTAL SECTION
 WIND LOAD ANCHOR AT VERTICAL MULLION



EXTERIOR VIEW
 WIND LOAD ANCHOR AT JAMB



EXTERIOR VIEW
 WIND LOAD ANCHOR AT VERTICAL MULLION



VERTICAL SECTION
 WIND LOAD ANCHOR AT STEEL SUBSTRATE
 LOW / STANDARD PRESSURE CONNECTION

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: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

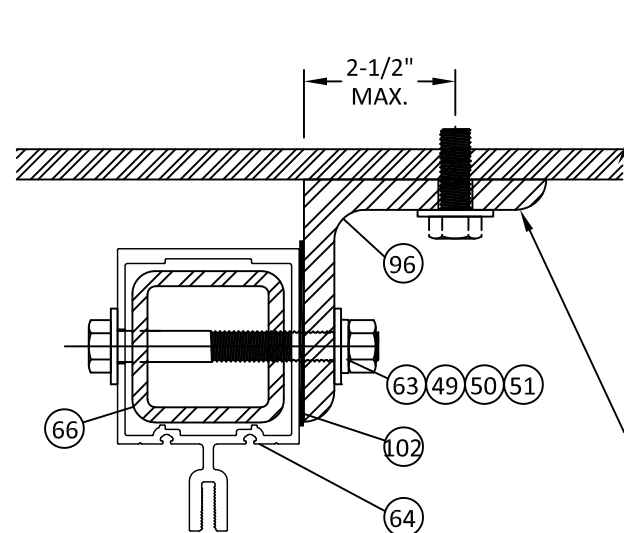
DWG. #: **YKK280**

SECTION:
8.0

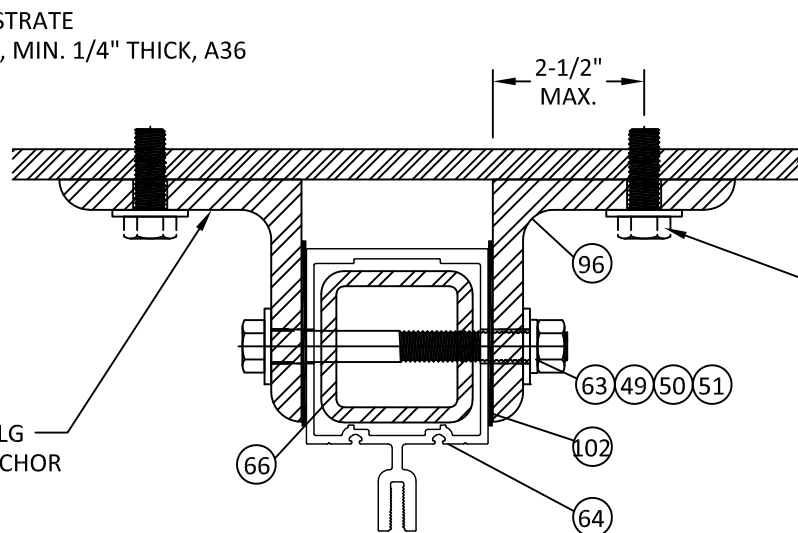
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TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
 WIND LOAD ANCHOR DETAILS

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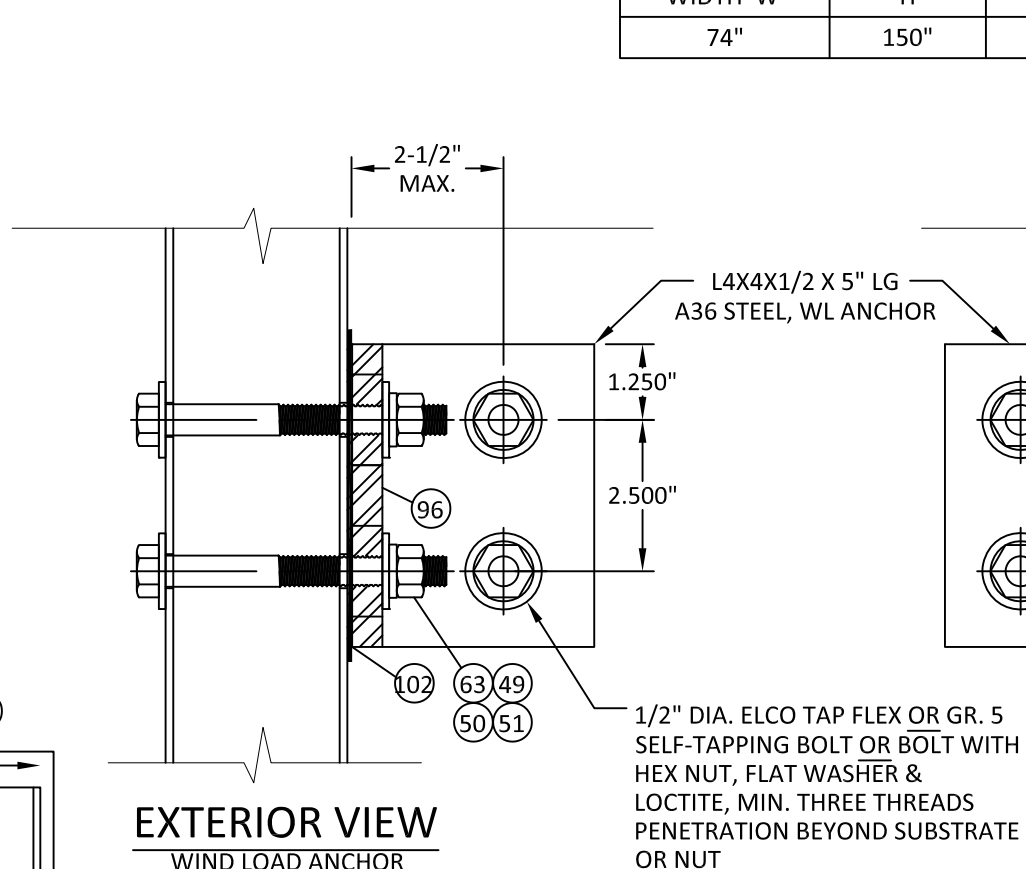


26 HORIZONTAL SECTION
8.1 WIND LOAD ANCHOR AT JAMB

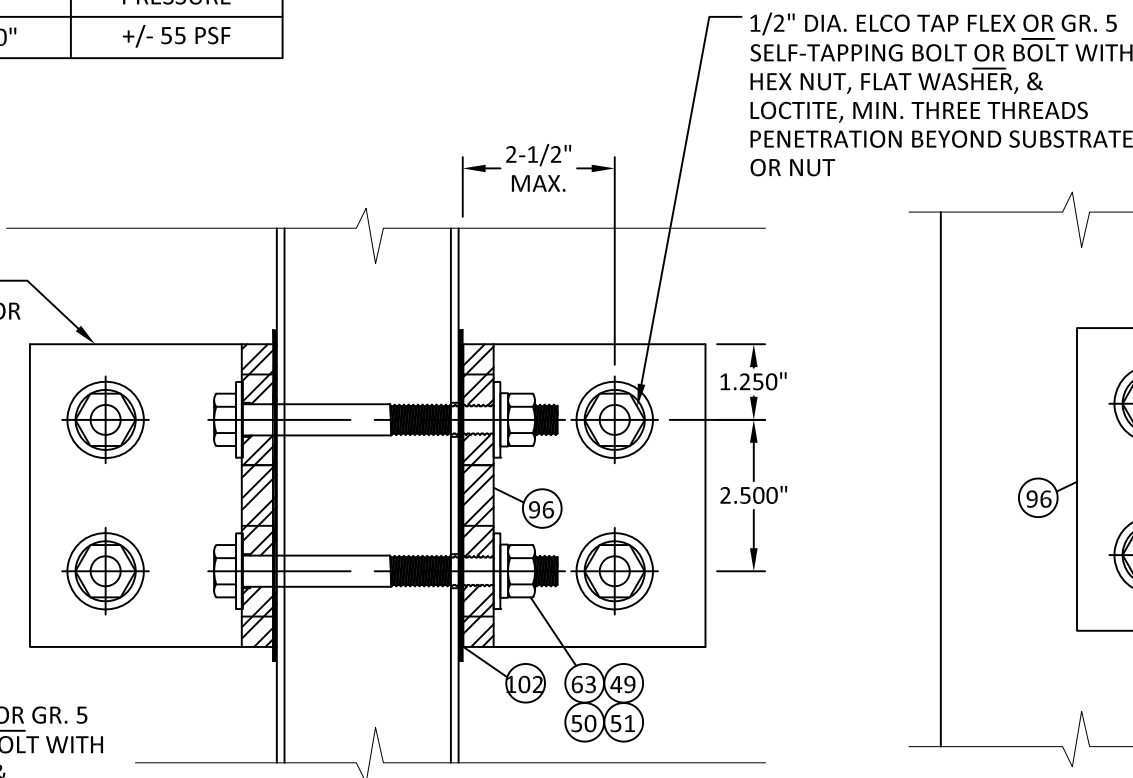


27 HORIZONTAL SECTION
8.1 WIND LOAD ANCHOR AT VERTICAL MULLION

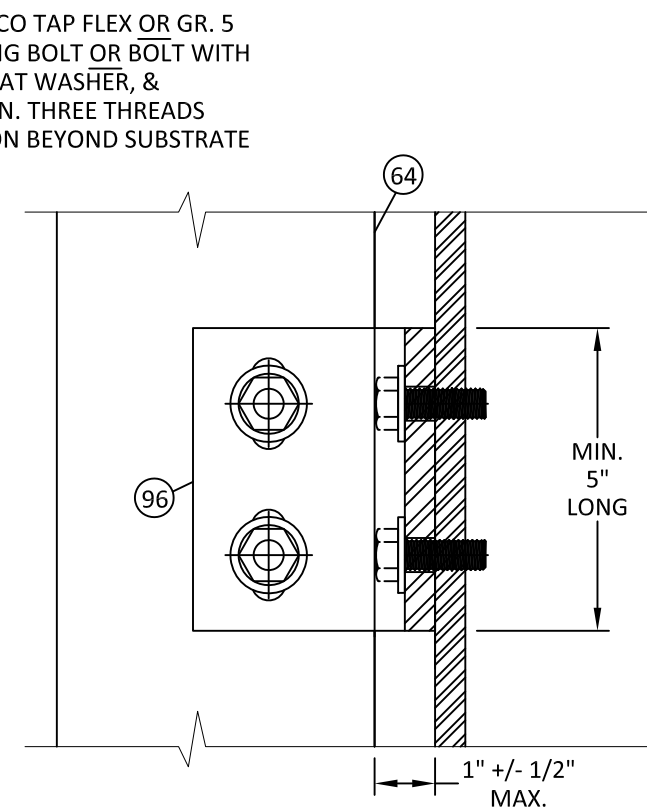
WL ANCHOR CAPACITY		
MAX. TRIBUTARY WIDTH 'W'	MAX. SPAN 'H'	MAX. DESIGN PRESSURE
74"	150"	+/- 55 PSF



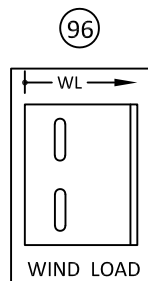
EXTERIOR VIEW
 WIND LOAD ANCHOR AT JAMB



EXTERIOR VIEW
 WIND LOAD ANCHOR AT VERTICAL MULLION



VERTICAL SECTION
 WIND LOAD ANCHOR AT STEEL SUBSTRATE
 LOW / STANDARD PRESSURE CONNECTION



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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: **08.24.21**

DWG. BY: **MS**

CHK. BY: **HFN**

SCALE: **NTS**

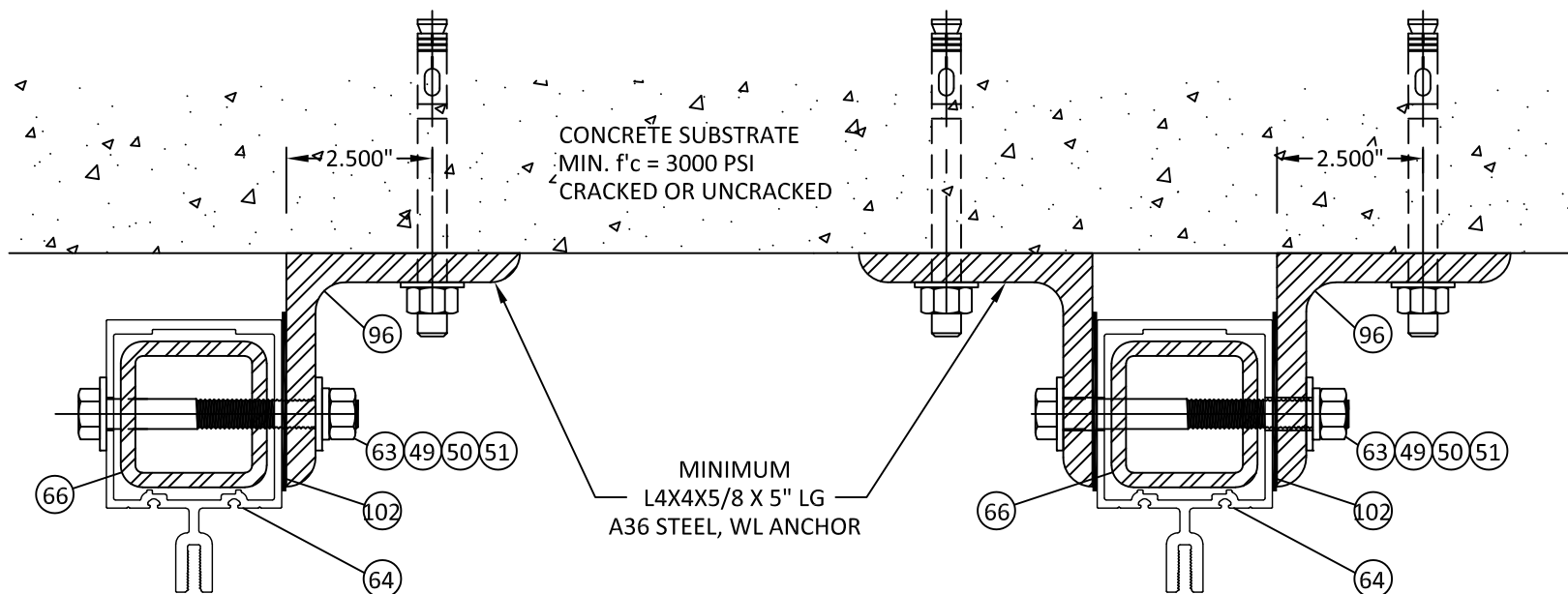
DWG. #: **YKK280**

SECTION:

8.1

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TWIN SPAN WL ANCHOR CAPACITY INTO CONCRETE



MAX. WL ANCHOR CAPACITY FOR DOUBLE SPAN - DESIGN PRESSURES (+/- PSF)

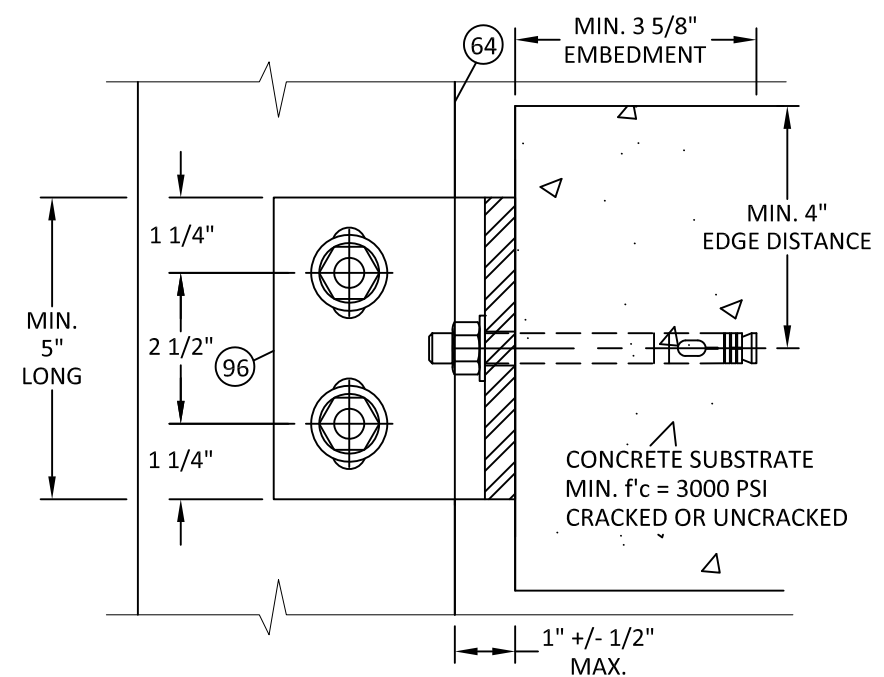
MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	*A
36	90	55.0
42		55.0
48		55.0
54		55.0
60		55.0
66		55.0
72		53.3
36	96	55.0
42		55.0
48		55.0
54		55.0
60		55.0
66		54.5
72		50.0
36	99	55.0
42		55.0
48		55.0
54		55.0
60		55.0
66		52.9
72		48.5
36	102	55.0
42		55.0
48		55.0
54		55.0
60		55.0
66		51.3
72		47.1
36	108	55.0
42		55.0
48		55.0
54		55.0
60		53.3
66		48.5
72		44.4
36	115	55.0
42		55.0
48		55.0
54		55.0
60		50.1
66		45.5
72		41.7
36	120	55.0
42		55.0
48		55.0
54		53.3
60		48.0
66		43.6
72		40.0

MAX. WL ANCHOR CAPACITY FOR DOUBLE SPAN - DESIGN PRESSURES (+/- PSF)

MAX. AVG. WIDTH 'W' (in.)	MAX. SPAN 'H' (in.)	*A
36	124	55.0
42		55.0
48		55.0
54		51.6
60		46.5
66		42.2
72		38.7
36	126	55.0
42		55.0
48		55.0
54		50.8
60		45.7
66		41.6
72		38.1
36	132	55.0
42		55.0
48		54.5
54		48.5
60		43.6
66		39.7
72		36.4
36	138	55.0
42		55.0
48		52.2
54		46.4
60		41.7
66		37.9
72		34.8
36	144	55.0
42		55.0
48		50.0
54		44.4
60		40.0
66		36.4
72		33.3
36	150	55.0
42		54.9
48		48.0
54		42.7
60		38.4
66		34.9
72		32.0

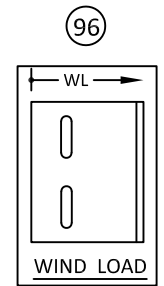
28 HORIZONTAL SECTION
8.2 WIND LOAD ANCHOR AT JAMB

29 HORIZONTAL SECTION
8.2 WIND LOAD ANCHOR AT VERTICAL MULLION



- WIND LOAD ANCHOR NOTES:**
- WIND LOAD ANCHOR HEREIN HAS BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 3,000 LBS (ASD) @ DOUBLE ANGLE SUPPORTS
 - WL = +/- 1,500 LBS (ASD) @ SINGLE ANGLE SUPPORTS
 - REFER TO TABLES AT RIGHT FOR ALLOWABLE DESIGN PRESSURES BASED ON SPAN AND TRIBUTARY WIDTH.
 - REFER TO SHEETS 2 AND 10 FOR ELEVATION AND ILLUSTRATION ON DETERMINING TRIBUTARY WIDTH FOR MULLION.
 - CONCRETE ANCHOR BOLTS, TYPE *A, ARE 1/2" HILTI KWIK BOLT TZ ANCHORS, MIN. 3-5/8" EMBEDMENT, MIN. 4" EDGE DISTANCE, MIN. 8" CENTER TO CENTER SPACING.

EXTERIOR VIEW
WIND LOAD ANCHOR AT JAMB



TITLE: YHC - 300 OG
CURTAIN WALL SYSTEM
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

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: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

SECTION: **8.2**

[PAGE 56 OF 72]

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TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**

WIND LOAD / DEAD LOAD 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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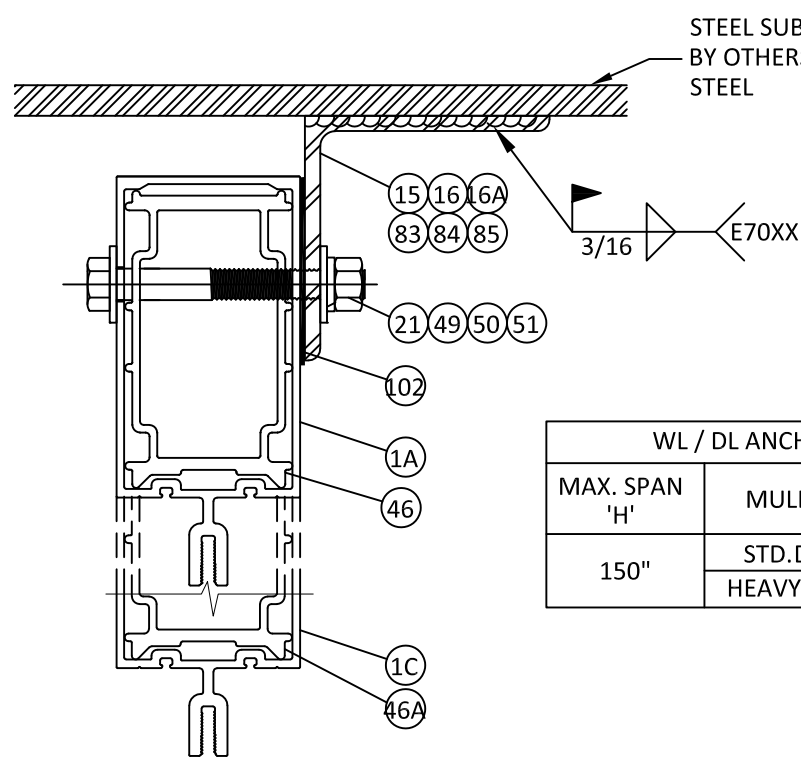
REMARKS	BY	DATE

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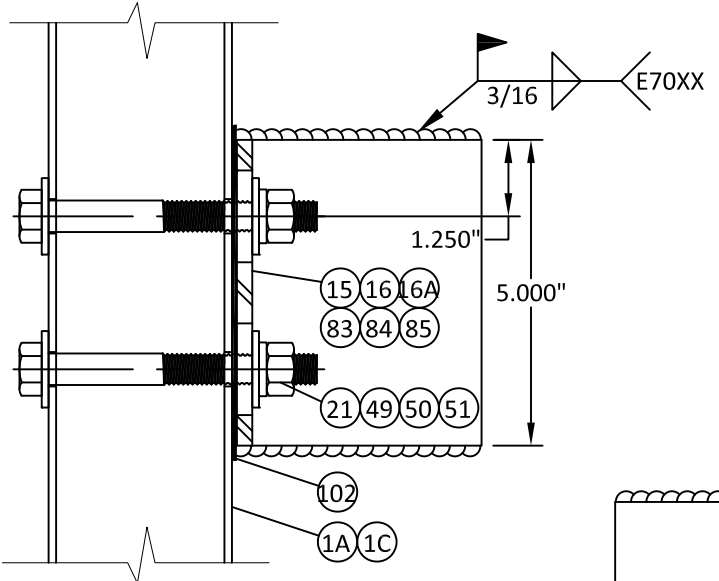
HERMES F. NORERO, P.E.
 TEXAS P.E. No. 118471
 BUILDING DROPS, INC
 398 E. DANIA BEACH BLVD. # 338
 DANIA BEACH, FL 33004
 TBPE FIRM No. 13734

DATE:	08.24.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK280
SECTION:	8.3

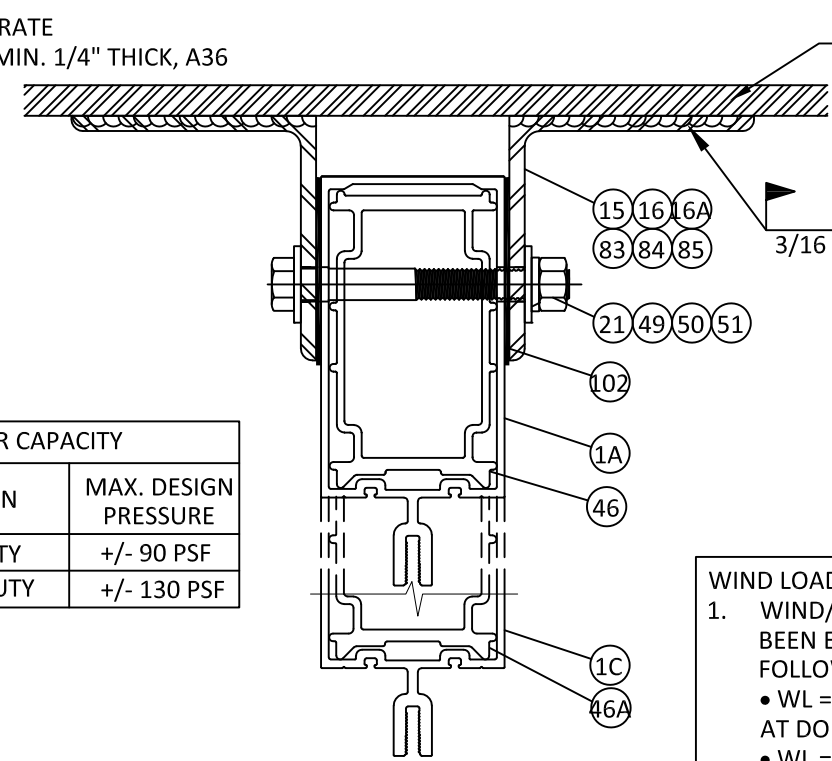
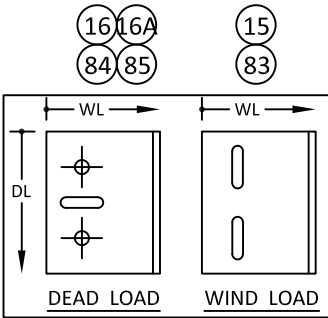


MAX. SPAN 'H'	MULLION	MAX. DESIGN PRESSURE
150"	STD. DUTY	+/- 90 PSF
	HEAVY DUTY	+/- 130 PSF

30 HORIZONTAL SECTION
8.3 WIND/DEAD LOAD ANCHOR AT JAMB

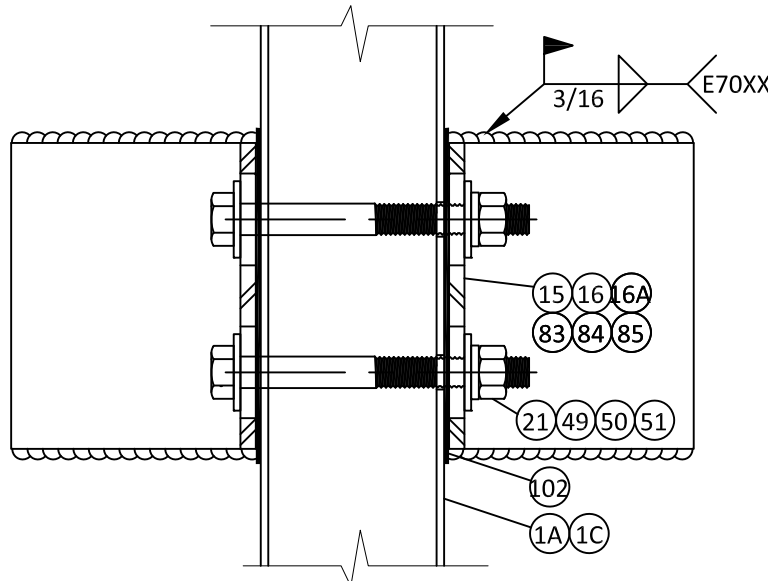


EXTERIOR VIEW
 WIND/DEAD LOAD ANCHOR AT JAMB



31 HORIZONTAL SECTION
8.3 WIND/DEAD LOAD ANCHOR AT VERTICAL MULLION

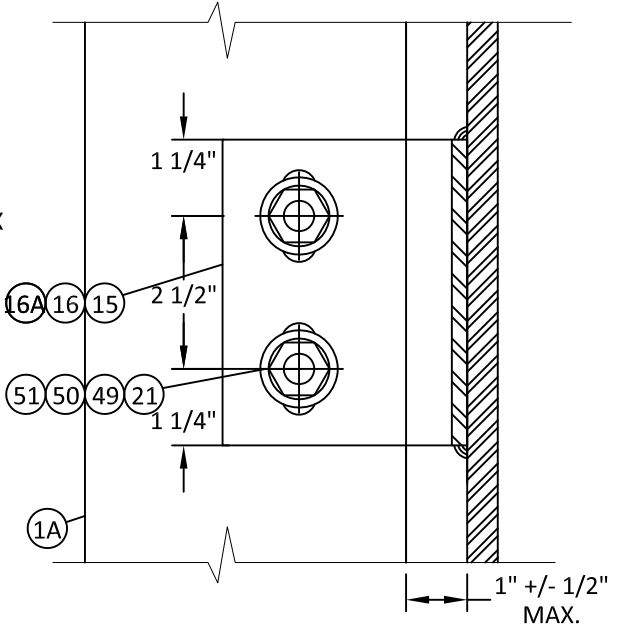
NOTE:
 1) ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE INTERNATIONAL BLDG. CODE BY A REGISTERED PROFESSIONAL ENGINEER.



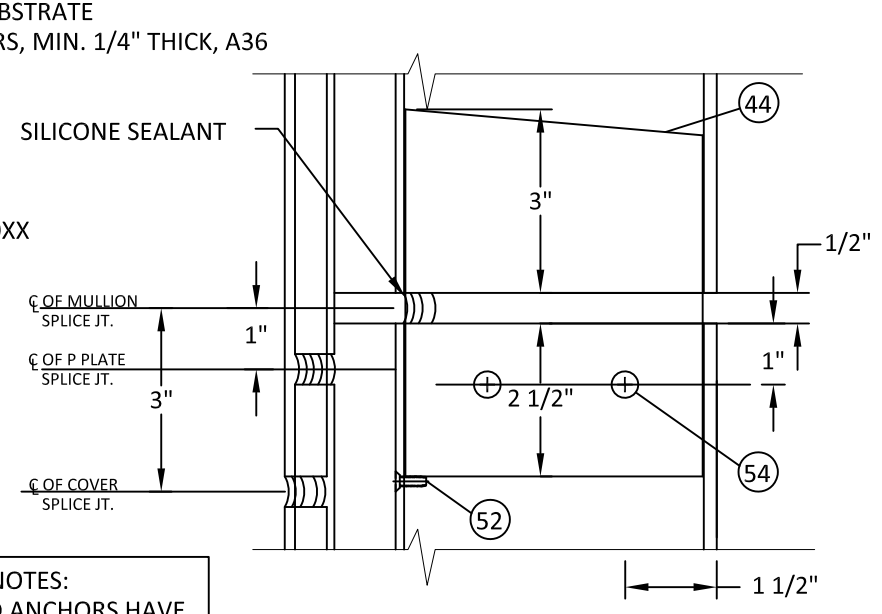
EXTERIOR VIEW
 WIND/DEAD LOAD ANCHOR AT VERTICAL MULLION

WIND LOAD ANCHOR NOTES:

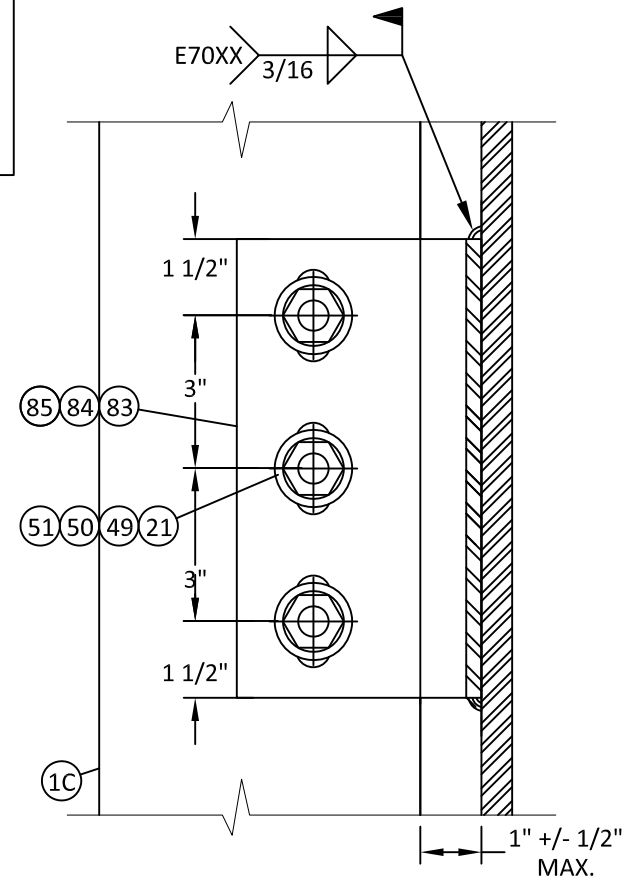
- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 6,300 LBS (UNFACTORED) AT DOUBLE ANGLE SUPPORTS
 - WL = +/- 3,150 LBS (UNFACTORED) AT SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"
- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = 1,219 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.



VERTICAL SECTION
 WIND/DEAD LOAD ANCHOR AT STEEL SUBSTRATE
 LOW / STANDARD PRESSURE CONNECTION



32 VERTICAL SECTION
8.3 MULLION SPLICE



VERTICAL SECTION
 WIND/DEAD LOAD ANCHOR AT STEEL SUBSTRATE
 HIGH PRESSURE CONNECTION

s:\projects\ykk_ap_america, inc\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 8 - wind & dead load anchor dtis.dwg 8/26/2021 1:58 PM

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**

WIND LOAD / DEAD 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

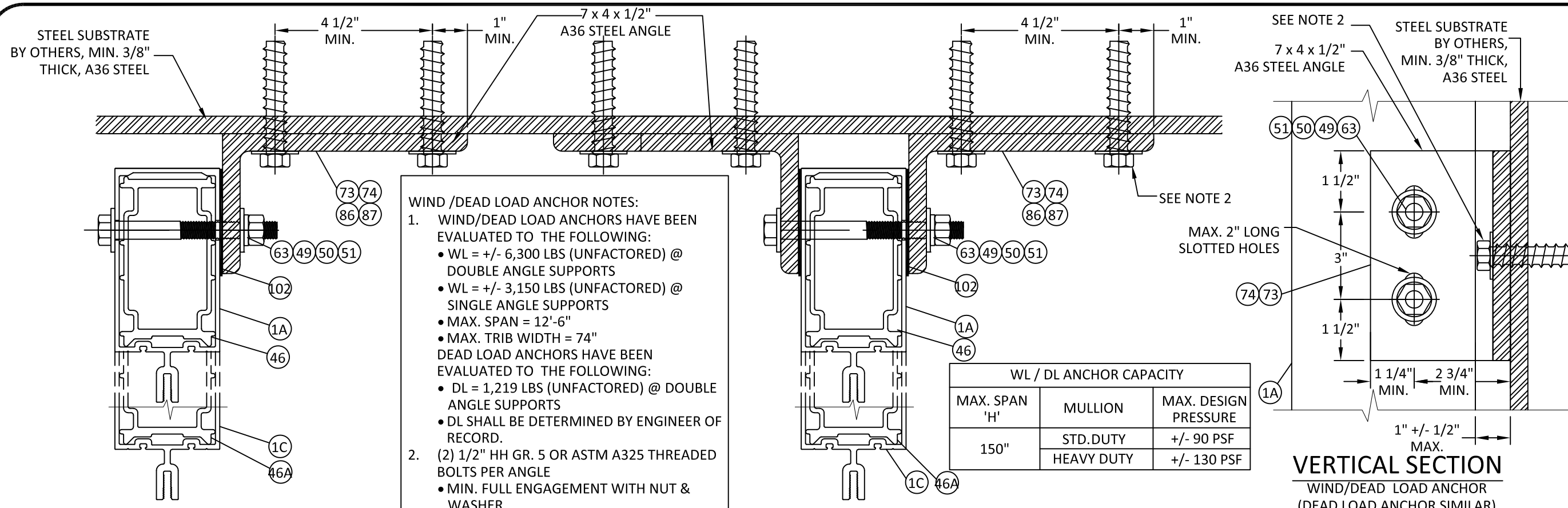
DATE: **08.24.21**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

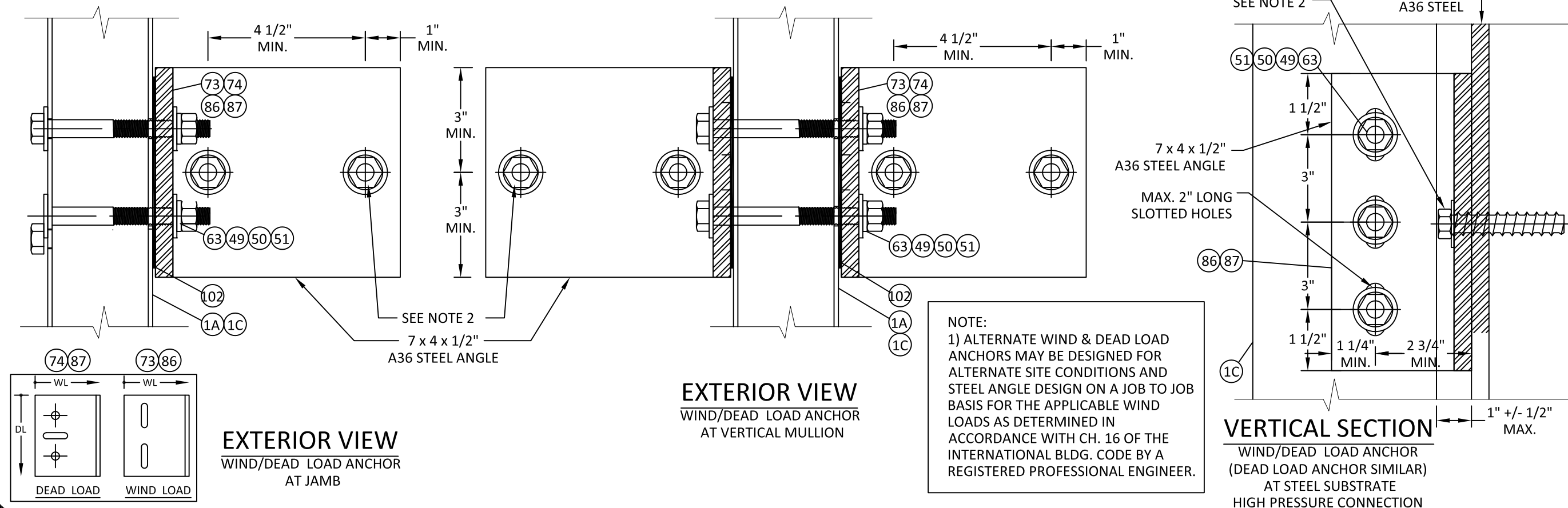
SECTION: **8.4**



- WIND / DEAD LOAD ANCHOR NOTES:**
- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 6,300 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - WL = +/- 3,150 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"
 - DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = 1,219 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.
- (2) 1/2" HH GR. 5 OR ASTM A325 THREADED BOLTS PER ANGLE
- MIN. FULL ENGAGEMENT WITH NUT & WASHER OR
 - THREADED INTO TAPPED HOLE W/ MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE
 - MIN. 1 1/2" EDGE DISTANCE.

WL / DL ANCHOR CAPACITY

MAX. SPAN 'H'	MULLION	MAX. DESIGN PRESSURE
150"	STD. DUTY	+/- 90 PSF
	HEAVY DUTY	+/- 130 PSF



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 s:\projects\ykk_ap_america, inc.\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 8 - wind & dead load anchor.dwg

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**

WIND LOAD / DEAD LOAD ANCHOR DETAILS

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

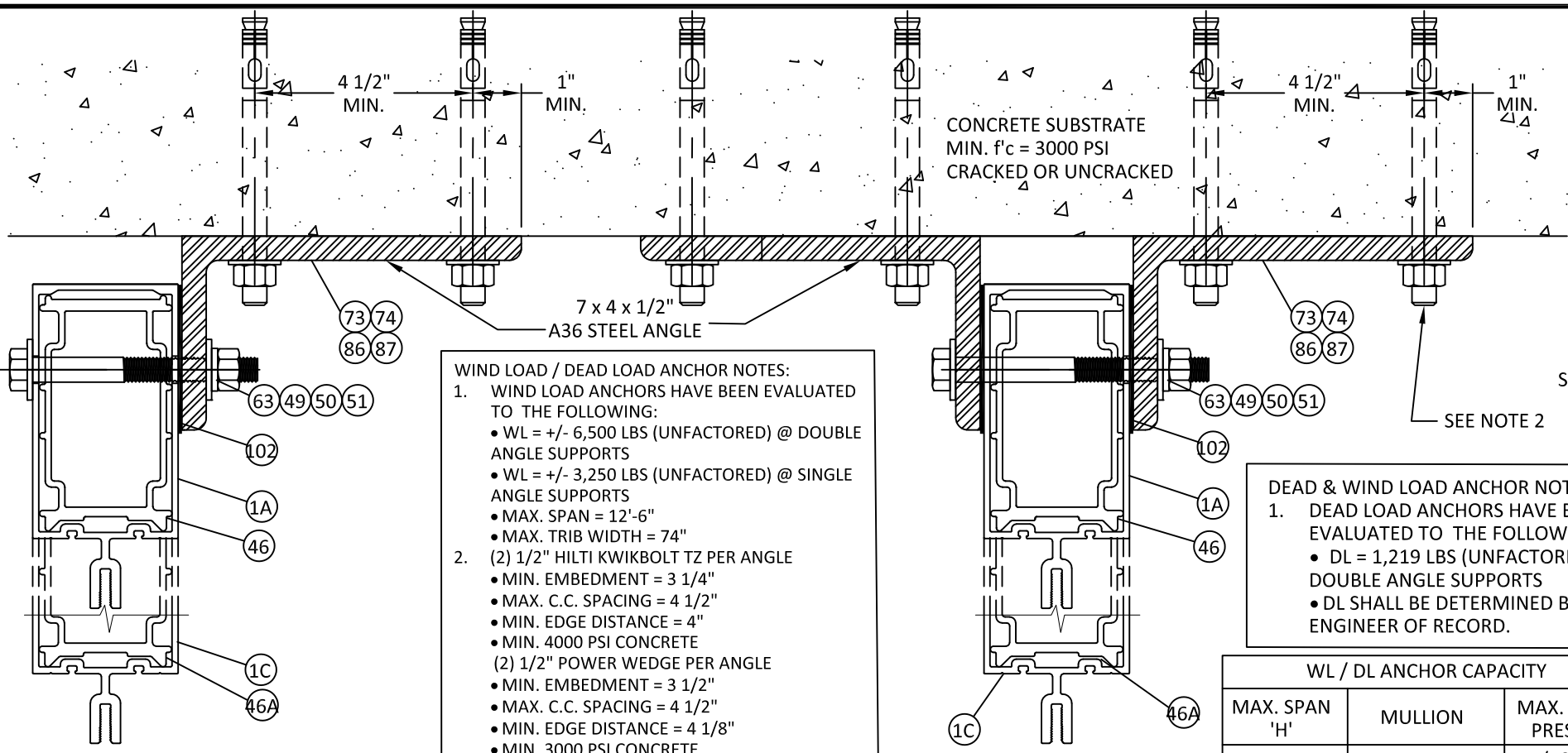
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 TEXAS P.E. No. 118471
 BUILDING DROPS, INC
 398 E. DANIA BEACH BLVD. # 338
 DANIA BEACH, FL 33004
 TBPE FIRM No. 13734

DATE: **08.24.21**

DWG. BY: MS	CHK. BY: HFN
SCALE: NTS	
DWG. #: YKK280	
SECTION: 8.5	



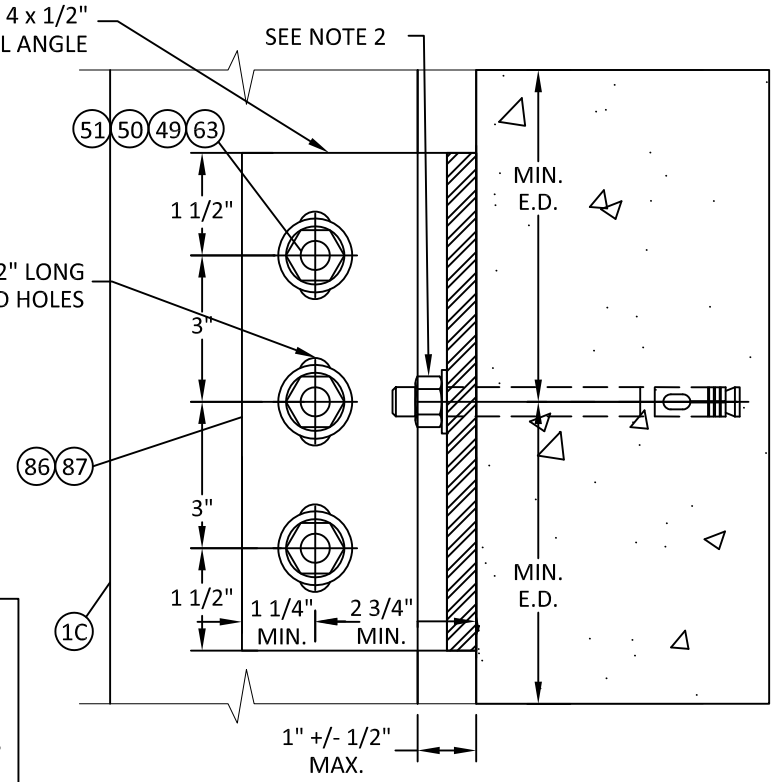
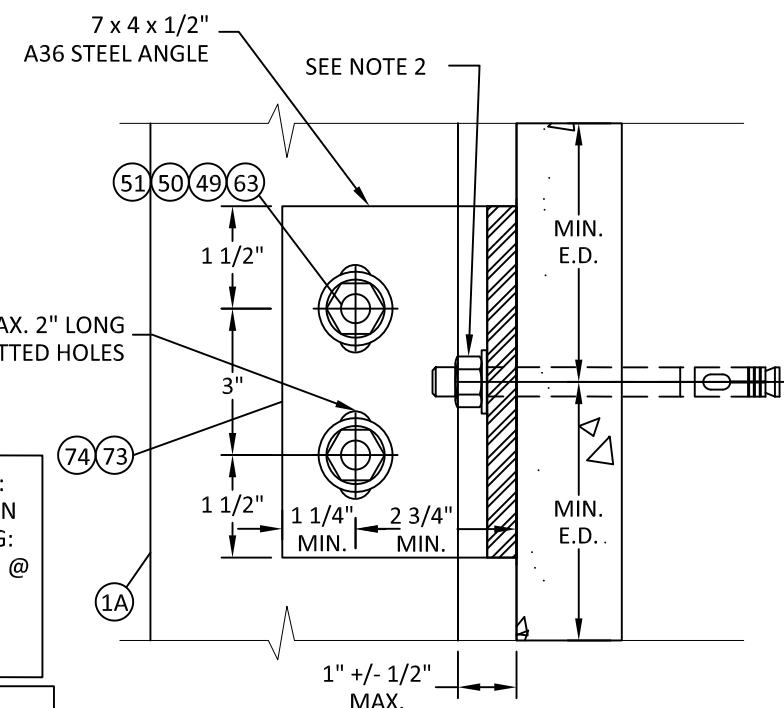
WIND LOAD / DEAD LOAD ANCHOR NOTES:

- WIND LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 6,500 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - WL = +/- 3,250 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"
- (2) 1/2" HILTI KWIKBOLT TZ PER ANGLE
 - MIN. EMBEDMENT = 3 1/4"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 4"
 - MIN. 4000 PSI CONCRETE
- (2) 1/2" POWER WEDGE PER ANGLE
 - MIN. EMBEDMENT = 3 1/2"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 3 1/8"
 - MIN. 3000 PSI CONCRETE
- (2) 3/8" SIMPSON TITEN HD PER ANGLE
 - MIN. EMBEDMENT = 3 1/4"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 3 5/8"
 - MIN. 4000 PSI CONCRETE
- FOR SLABS LESS THAN 8" IN THICKNESS, DESIGN MAY BE PROVIDED ON JOB TO JOB BASIS FOR REVIEW & APPROVAL BY AHJ

DEAD & WIND LOAD ANCHOR NOTES:

- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = 1,219 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.

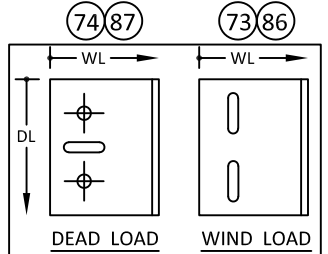
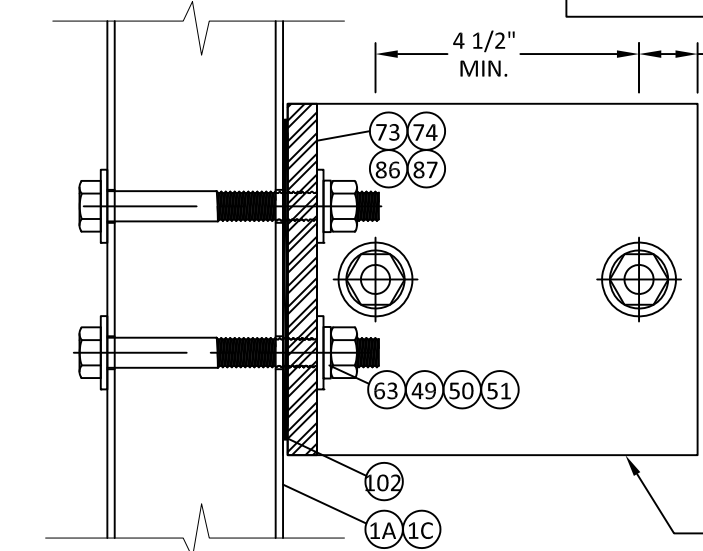
WL / DL ANCHOR CAPACITY		
MAX. SPAN 'H'	MULLION	MAX. DESIGN PRESSURE
150"	STD. DUTY	+/- 90 PSF
	HEAVY DUTY	+/- 130 PSF



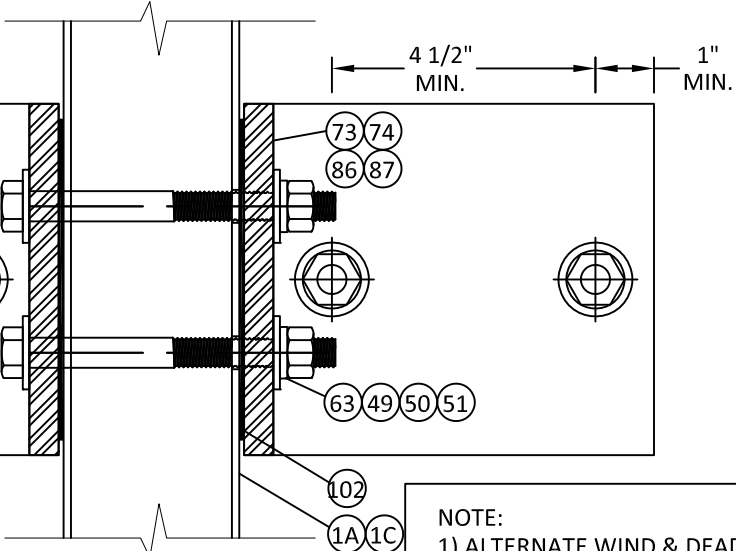
NOTE:

- ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE INTERNATIONAL BLDG. CODE BY A REGISTERED PROFESSIONAL ENGINEER.

35 HORIZONTAL SECTION 8.5
 WIND/DEAD LOAD ANCHOR AT JAMB



EXTERIOR VIEW
 WIND/DEAD LOAD ANCHOR AT VERTICAL MULLION



TITLE: YHC - 300 OG
 CURTAIN WALL SYSTEM
 WIND LOAD / DEAD 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

WIND LOAD ANCHOR NOTES:

- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 6,300 LBS (UNFACTORED) AT DOUBLE ANGLE SUPPORTS
 - WL = +/- 3,150 LBS (UNFACTORED) AT SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"

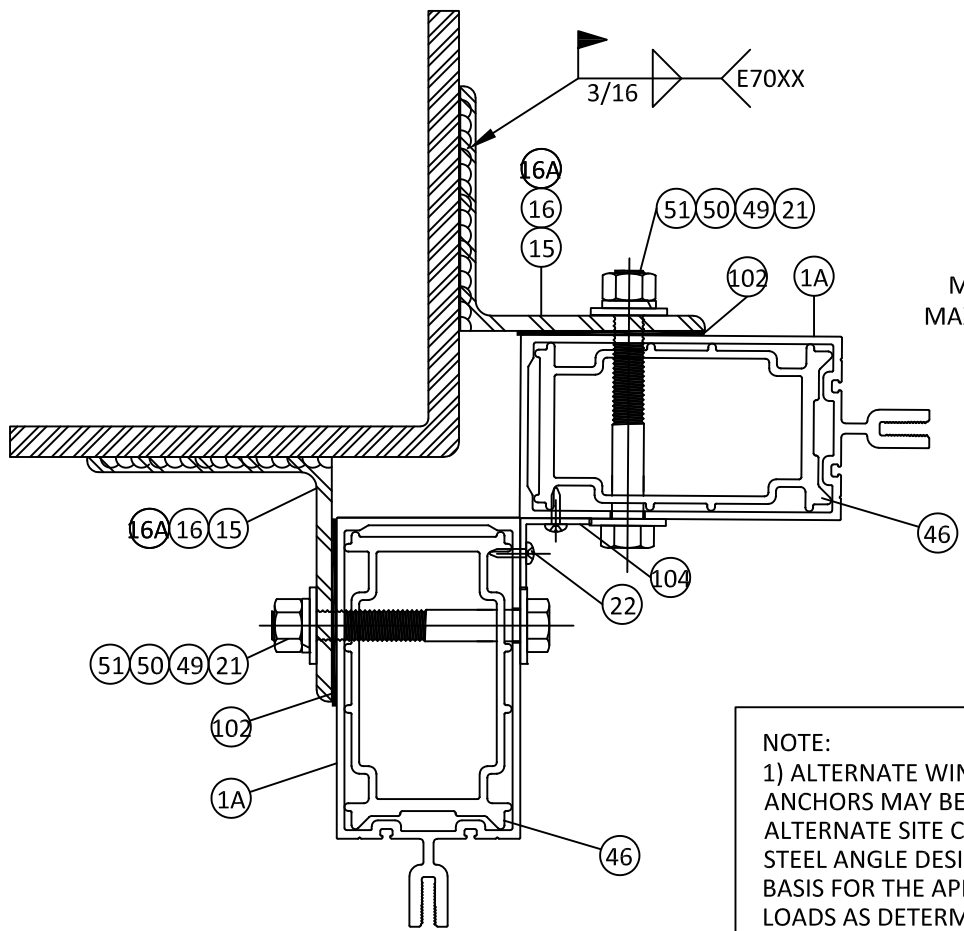
DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:

- DL = 1,219 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
- DL SHALL BE DETERMINED BY ENGINEER OF RECORD.

ALL ANGLES AND PLATES TO BE A-36 STEEL
 Fy = 36 KSI MIN.

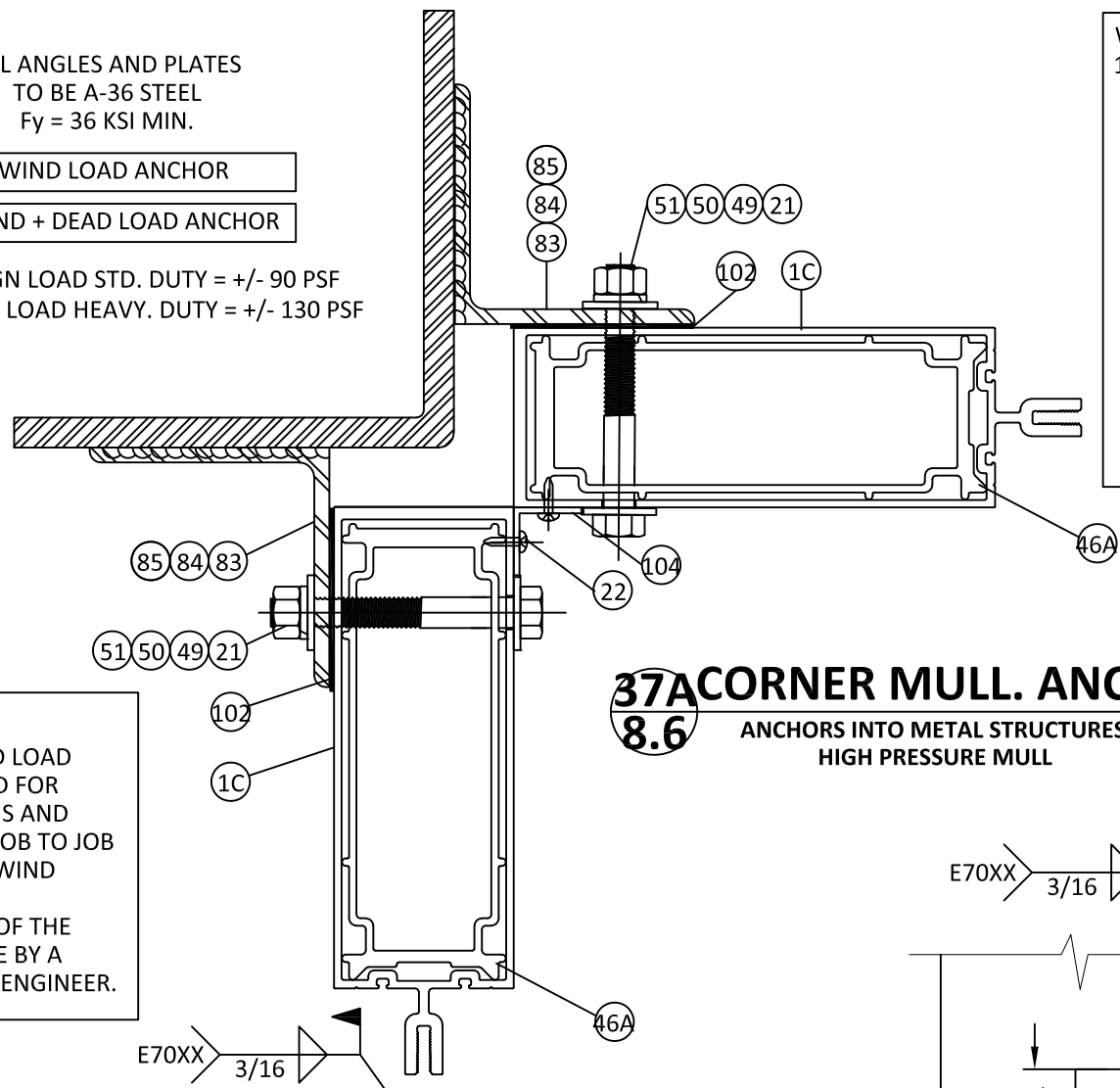
WIND LOAD ANCHOR
 WIND + DEAD LOAD ANCHOR

MAX. DESIGN LOAD STD. DUTY = +/- 90 PSF
 MAX. DESIGN LOAD HEAVY. DUTY = +/- 130 PSF

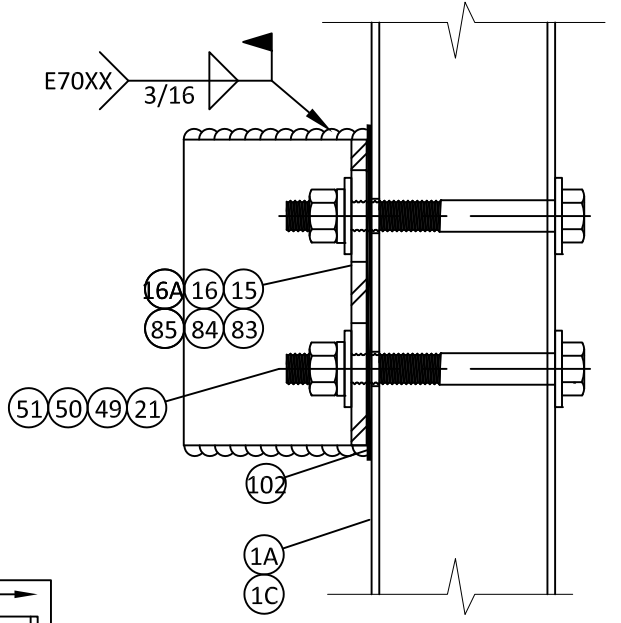


37 CORNER MULL. ANCH.
8.6 ANCHORS INTO METAL STRUCTURES
 LOW/STANDARD PRESSURE MULL

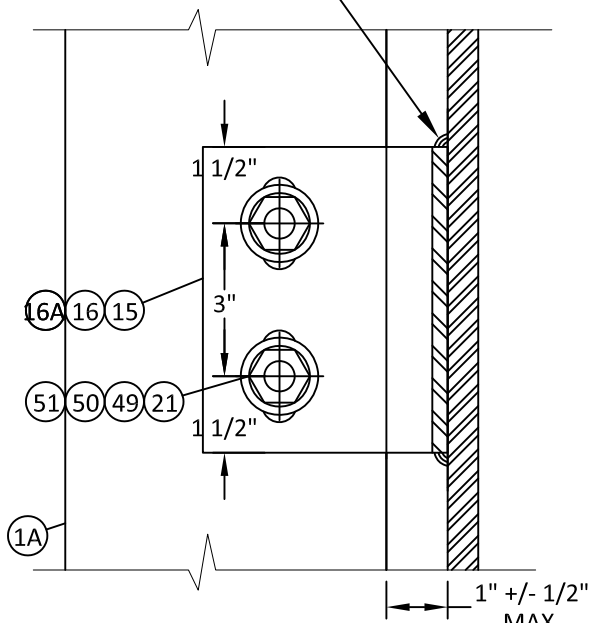
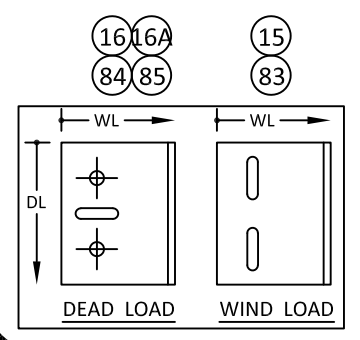
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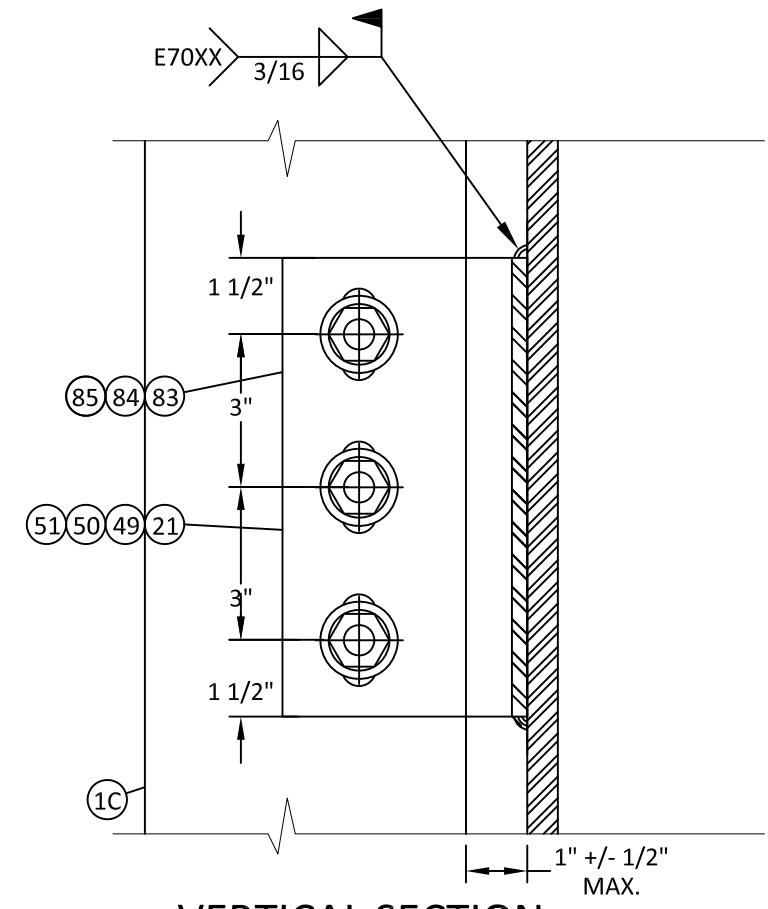
37 CORNER MULL. ANCH.
8.6 ANCHORS INTO METAL STRUCTURES
 HIGH PRESSURE MULL



CORNER MULL FRONT VIEW
 WIND/DEAD LOAD ANCHOR
 AT STEEL SUBSTRATE
 LOW / STANDARD / HIGH PRESSURE CONNECTION



VERTICAL SECTION
 WIND/DEAD LOAD ANCHOR
 (DEAD LOAD ANCHOR SIMILAR)
 AT STEEL SUBSTRATE
 LOW / STANDARD PRESSURE CONNECTION



VERTICAL SECTION
 WIND/DEAD LOAD ANCHOR
 (DEAD LOAD ANCHOR SIMILAR)
 AT STEEL SUBSTRATE
 HIGH PRESSURE CONNECTION

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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: **08.24.21**
 DWG. BY: **MS** CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **YKK280**
 SECTION:

8/26/2021 1:58 PM s:\projects\ykk_ap_america, inc\tdi-21-0820 - tdi submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 8 - wind & dead load anchor.dwg

TITLE: YHC - 300 OG
 CURTAIN WALL SYSTEM
 WIND LOAD / DEAD LOAD 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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 398 E. DANIA BEACH BLVD. # 338
 DANIA BEACH, FL 33004
 TBPE FIRM No. 13734

DATE:	08.24.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK280
SECTION:	8.7

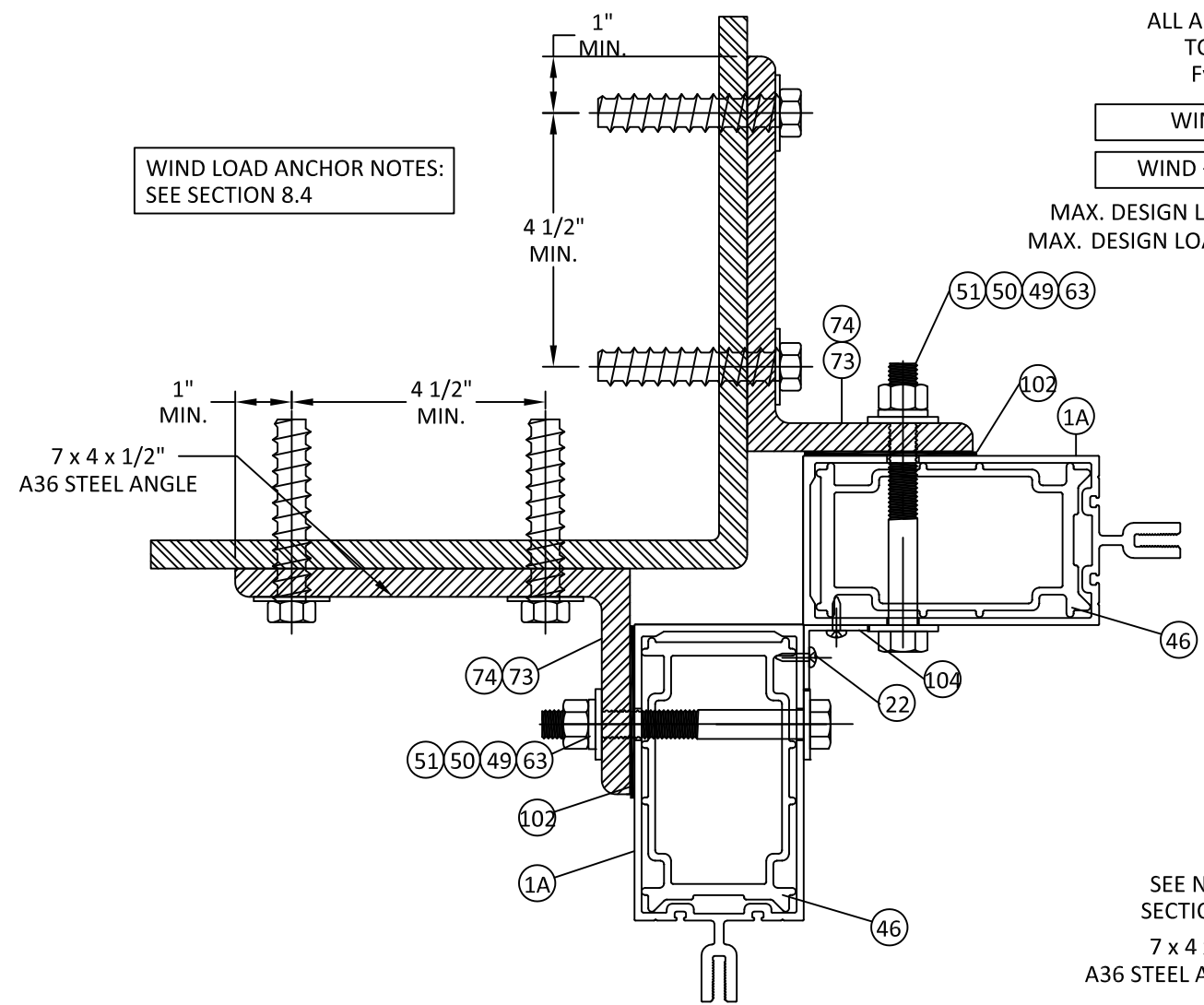
NOTE:
 1) ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE INTERNATIONAL BLDG. CODE BY A REGISTERED PROFESSIONAL ENGINEER.

ALL ANGLES AND PLATES TO BE A-36 STEEL
 Fy = 36 KSI MIN.

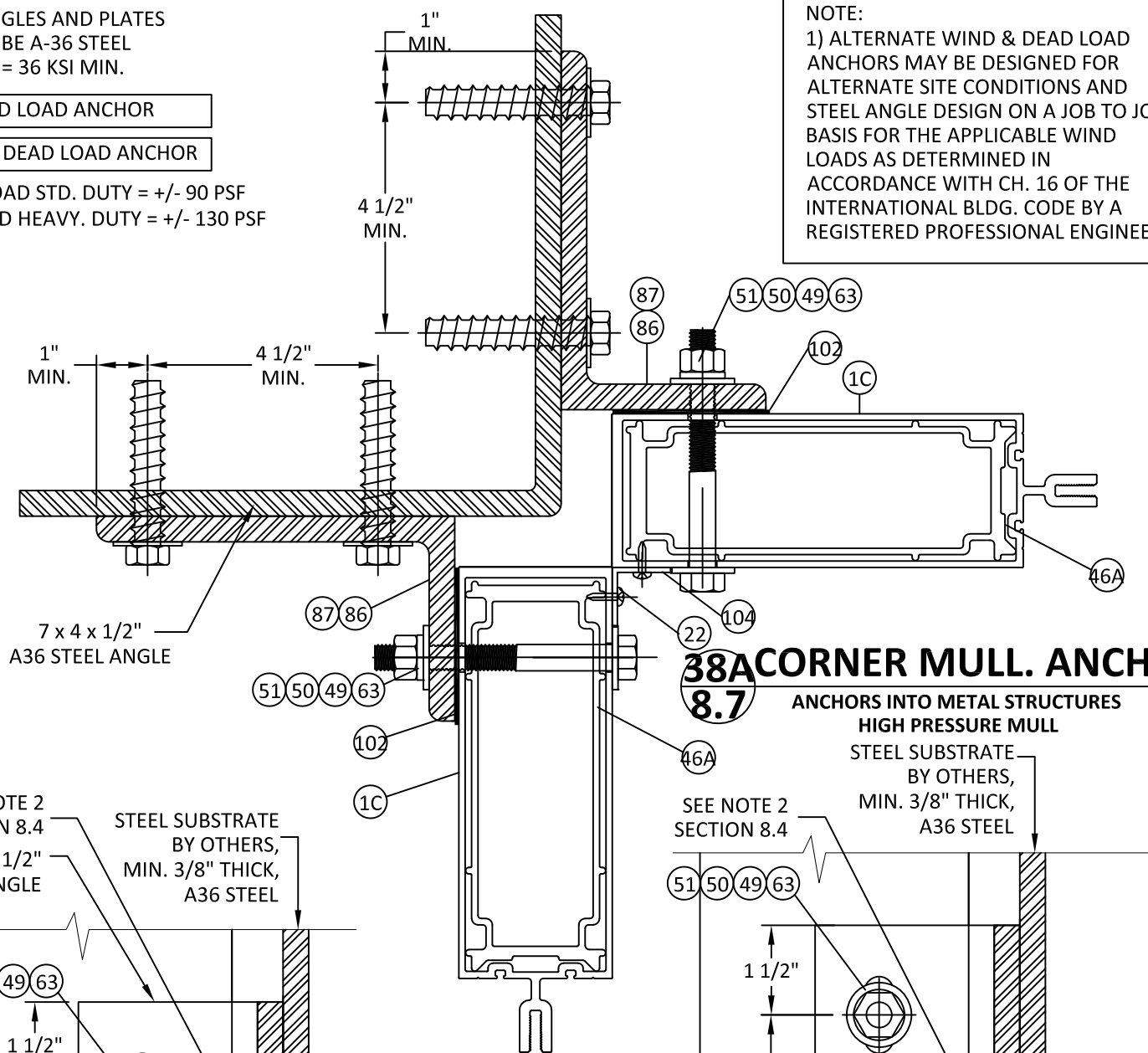
WIND LOAD ANCHOR
 WIND + DEAD LOAD ANCHOR

MAX. DESIGN LOAD STD. DUTY = +/- 90 PSF
 MAX. DESIGN LOAD HEAVY. DUTY = +/- 130 PSF

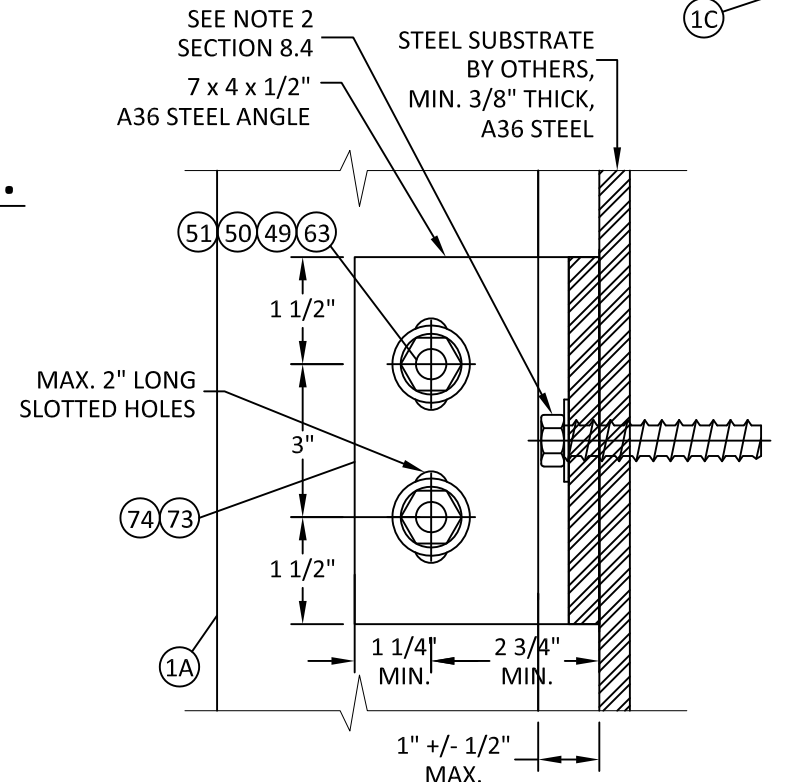
WIND LOAD ANCHOR NOTES:
 SEE SECTION 8.4



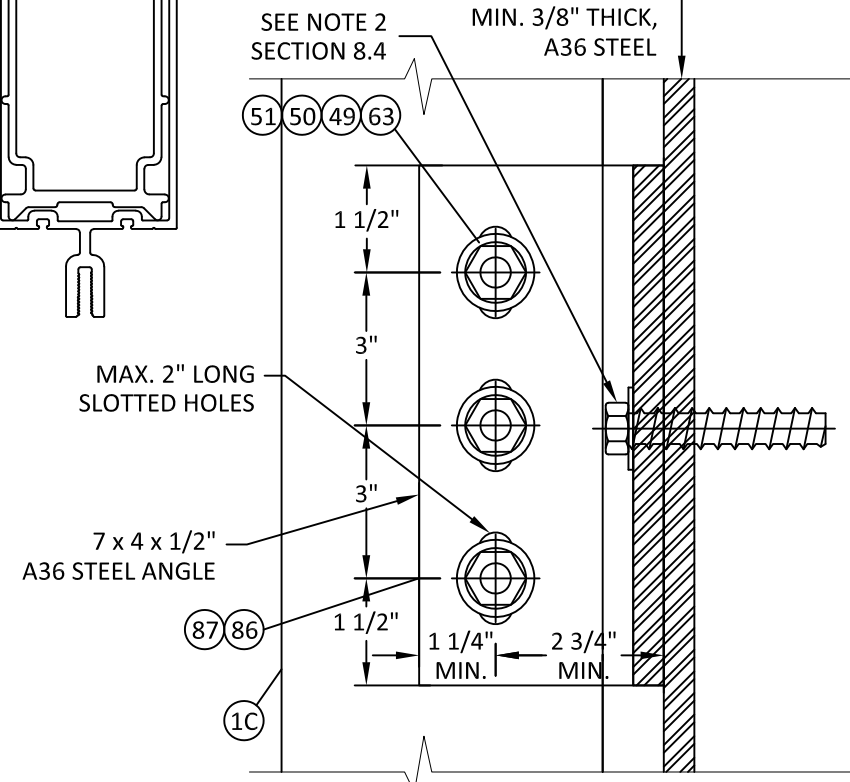
38 CORNER MULL. ANCH.
8.7 ANCHORS INTO METAL STRUCTURES
 LOW/STANDARD PRESSURE MULL



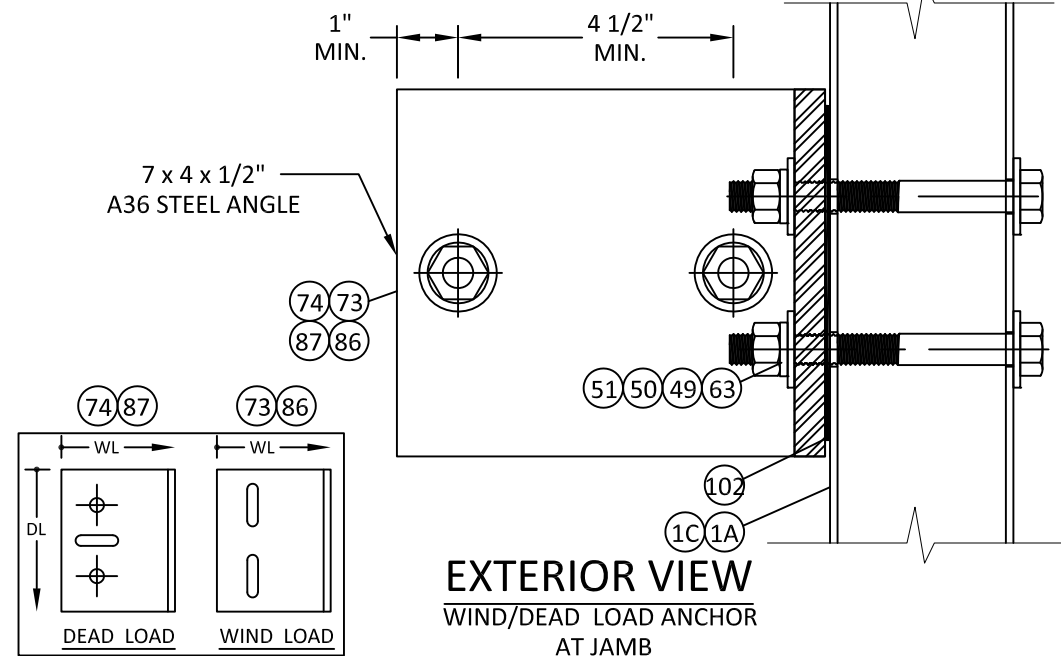
38 CORNER MULL. ANCH.
8.7 ANCHORS INTO METAL STRUCTURES
 HIGH PRESSURE MULL



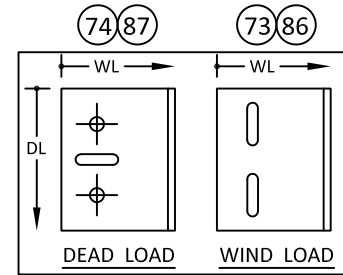
VERTICAL SECTION
 WIND/DEAD LOAD ANCHOR
 (DEAD LOAD ANCHOR SIMILAR)
 AT STEEL SUBSTRATE
 LOW / STANDARD PRESSURE CONNECTION



VERTICAL SECTION
 WIND/DEAD LOAD ANCHOR
 (DEAD LOAD ANCHOR SIMILAR)
 AT STEEL SUBSTRATE
 HIGH PRESSURE CONNECTION



EXTERIOR VIEW
 WIND/DEAD LOAD ANCHOR
 AT JAMB

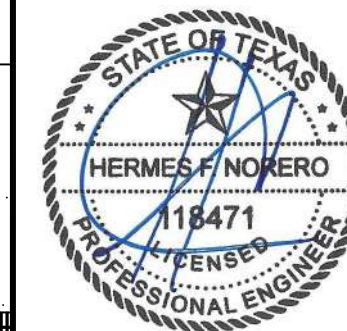


s:\projects\ykk_ap_america, inc.\tbl-21-0820 - tbl submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 8 - wind & dead load anchor.dwg
 8/26/2021 1:58 PM

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
 WIND LOAD / DEAD LOAD ANCHOR DETAILS
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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: **08.24.21**

DWG. BY: **MS**

CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

SECTION:



NOTE:
 1) ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE INTERNATIONAL BLDG. CODE BY A REGISTERED PROFESSIONAL ENGINEER.

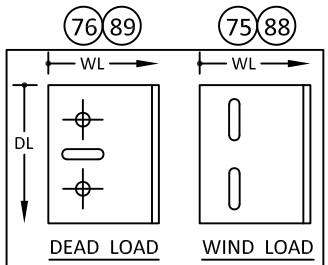
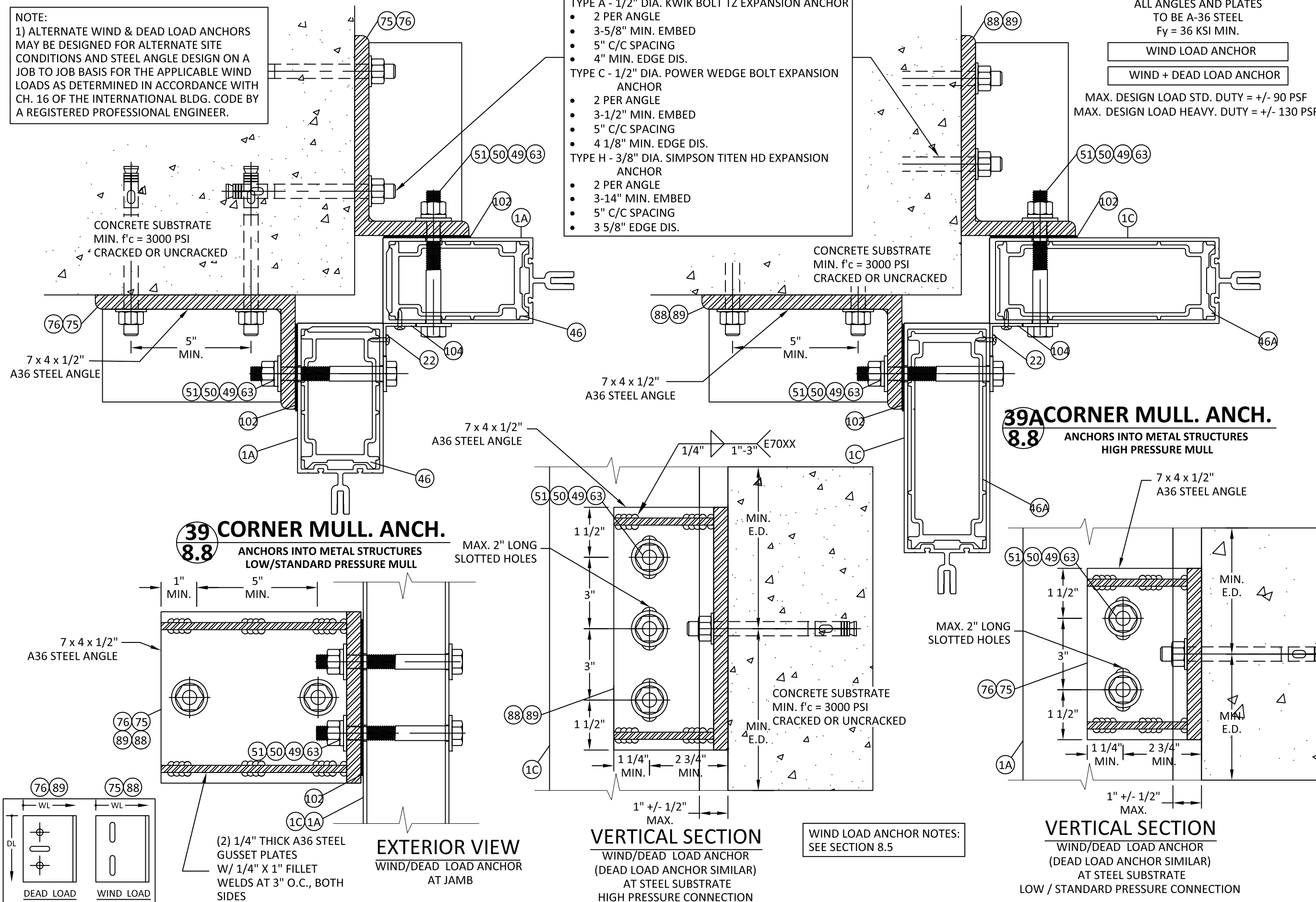
- TYPE A - 1/2" DIA. KWIK BOLT TZ EXPANSION ANCHOR**
- 2 PER ANGLE
 - 3-5/8" MIN. EMBED
 - 5" C/C SPACING
 - 4" MIN. EDGE DIS.
- TYPE C - 1/2" DIA. POWER WEDGE BOLT EXPANSION ANCHOR**
- 2 PER ANGLE
 - 3-1/2" MIN. EMBED
 - 5" C/C SPACING
 - 4 1/8" MIN. EDGE DIS.
- TYPE H - 3/8" DIA. SIMPSON TITEN HD EXPANSION ANCHOR**
- 2 PER ANGLE
 - 3-14" MIN. EMBED
 - 5" C/C SPACING
 - 3 5/8" EDGE DIS.

ALL ANGLES AND PLATES TO BE A-36 STEEL
 Fy = 36 KSI MIN.

WIND LOAD ANCHOR

WIND + DEAD LOAD ANCHOR

MAX. DESIGN LOAD STD. DUTY = +/- 90 PSF
 MAX. DESIGN LOAD HEAVY. DUTY = +/- 130 PSF



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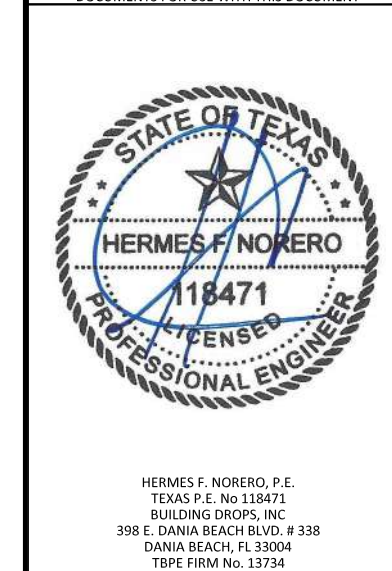
YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
 WIND LOAD / DEAD 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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 BUILDING DROPS, INC
 398 E. DANIA BEACH BLVD. # 338
 DANIA BEACH, FL 33004
 TBPE FIRM No. 13734

DATE: **08.24.21**
 DWG. BY: **MS** CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **YKK280**

SECTION:
8.9
 [PAGE 63 OF 72]

CORNER MULLION ANCHOR TABLE FOR STANDARD DUTY MULLION					
NOMINAL DIMENSIONS		WL ANCHOR 'UNCRACKED'	WL ANCHOR 'CRACKED'	DL+W/L ANCHOR 'UNCRACKED'	DL+W/L ANCHOR 'CRACKED'
WIDTH (IN.)	HEIGHT (IN.)				
30	108	90.0	90.0	90.0	80.0
36		90.0	78.0	90.0	67.0
42		85.0	66.0	81.0	57.0
48		75.0	58.0	71.0	50.0
54		66.0	52.0	63.0	44.0
60		60.0	46.0	56.0	40.0
30	114	90.0	88.0	90.0	76.0
36		90.0	73.0	89.0	63.0
42		81.0	63.0	77.0	54.0
48		71.0	55.0	67.0	47.0
54		63.0	49.0	59.0	42.0
60		56.0	44.0	53.0	38.0
30	120	90.0	84.0	90.0	72.0
36		90.0	70.0	85.0	60.0
42		77.0	60.0	73.0	52.0
48		67.0	52.0	64.0	45.0
54		60.0	46.0	56.0	40.0
60		54.0	42.0	51.0	36.0
30	126	90.0	80.0	90.0	69.0
36		85.0	66.0	81.0	57.0
42		73.0	57.0	69.0	49.0
48		64.0	50.0	61.0	43.0
54		57.0	44.0	54.0	38.0
60		90.0	76.0	90.0	66.0
30	132	81.0	63.0	77.0	55.0
36		70.0	54.0	66.0	47.0
42		61.0	47.0	58.0	41.0
48		54.0	42.0	51.0	36.0
54		90.0	73.0	89.0	63.0
60		78.0	61.0	74.0	52.0
30	138	67.0	52.0	63.0	45.0
36		58.0	45.0	55.0	39.0
42		90.0	70.0	85.0	60.0
48		75.0	58.0	71.0	50.0
54		64.0	50.0	61.0	43.0
60		56.0	43.0	53.0	37.0
30	144	86.0	67.0	82.0	58.0
36		72.0	56.0	68.0	48.0
42		61.0	48.0	58.0	41.0
48		54.0	42.0	51.0	36.0

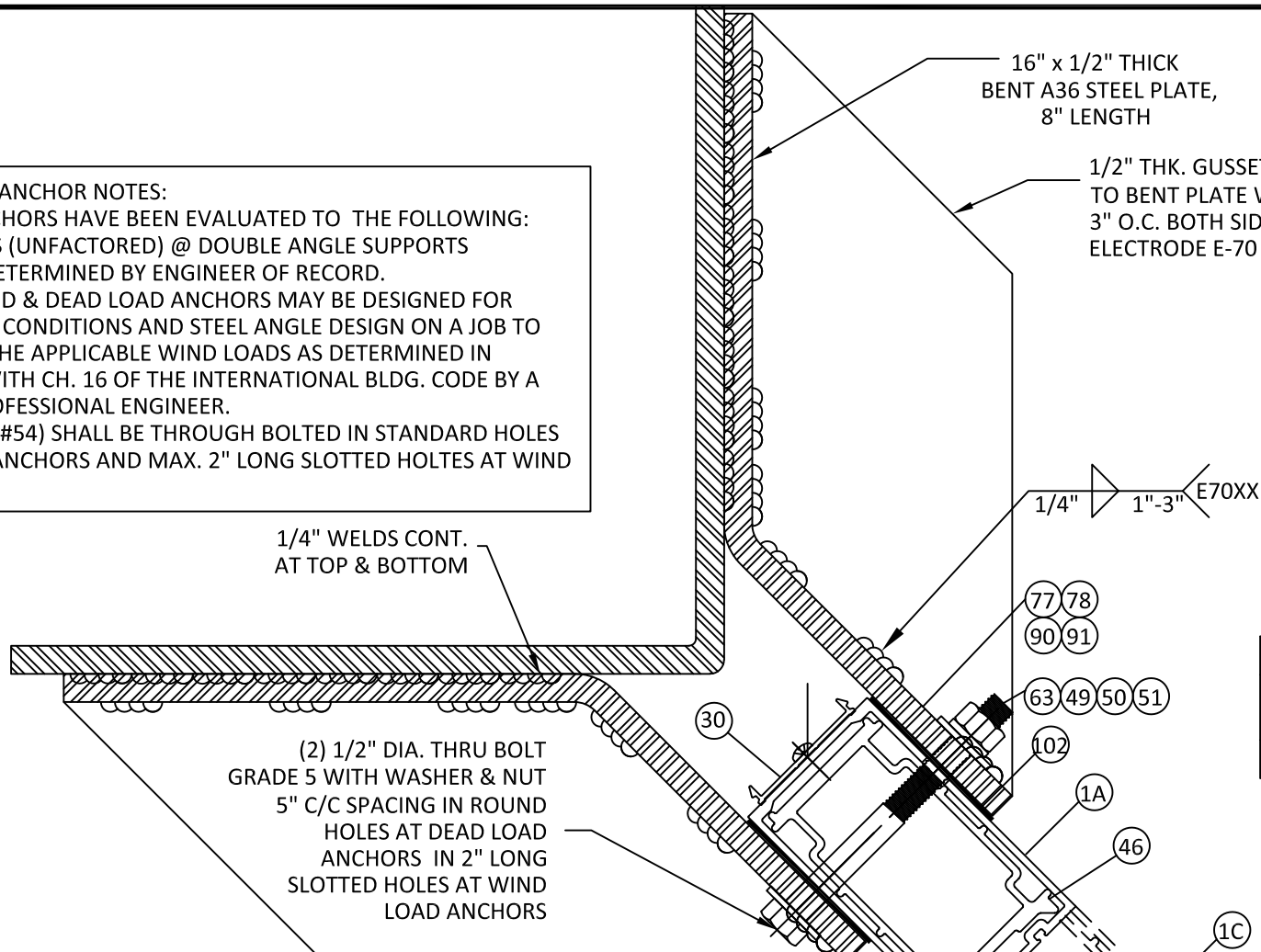
CORNER MULLION ANCHOR TABLE FOR HEAVY DUTY MULLION					
NOMINAL DIMENSIONS		WL ANCHOR 'UNCRACKED'	WL ANCHOR 'CRACKED'	DL+W/L ANCHOR 'UNCRACKED'	DL+W/L ANCHOR 'CRACKED'
WIDTH (IN.)	HEIGHT (IN.)				
30	108	120.0	93.6	114.0	80.9
36		100.0	78.0	95.0	67.5
42		85.7	66.9	81.4	57.8
48		75.0	58.5	71.3	50.6
54		66.7	52.0	63.3	45.0
60		60.0	46.8	57.0	40.5
30	114	113.7	88.7	108.0	76.7
36		94.7	73.9	90.0	63.9
42		81.2	63.3	77.1	54.8
48		71.1	55.4	67.5	47.9
54		63.2	49.3	60.0	42.6
60		56.8	44.3	54.0	38.3
30	120	108.0	84.2	102.6	72.8
36		90.0	70.2	85.5	60.7
42		77.1	60.2	73.3	52.0
48		67.5	52.7	64.1	45.5
54		60.0	46.8	57.0	40.5
60		54.0	42.1	51.3	36.4
30	126	102.9	80.2	97.7	69.4
36		85.7	66.9	81.4	57.8
42		73.5	57.3	69.8	49.6
48		64.3	50.1	61.1	43.4
54		57.1	44.6	54.3	38.5
60		51.4	40.1	48.9	34.7
30	132	98.2	76.6	93.3	66.2
36		81.8	63.8	77.7	55.2
42		70.1	54.7	66.6	47.3
48		61.4	47.9	58.3	41.4
54		54.5	42.5	51.8	36.8
60		49.1	38.3	46.6	33.1
30	138	93.9	73.3	89.2	63.3
36		78.3	61.0	74.3	52.8
42		67.1	52.3	63.7	45.2
48		58.7	45.8	55.8	39.6
54		52.2	40.7	49.6	35.2
60		47.0	36.6	44.6	31.7
30	144	90.0	70.2	85.5	60.7
36		75.0	58.5	71.3	50.6
42		64.3	50.1	61.1	43.4
48		56.3	43.9	53.4	37.9
54		50.0	39.0	47.5	33.7
60		45.0	35.1	42.8	30.4
30	150	86.4	67.4	82.1	58.3
36		72.0	56.2	68.4	48.6
42		61.7	48.1	58.6	41.6
48		54.0	42.1	51.3	36.4
54		48.0	37.4	45.6	32.4
60		43.2	33.7	41.0	29.1

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TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
 WIND LOAD / DEAD LOAD ANCHOR DETAILS

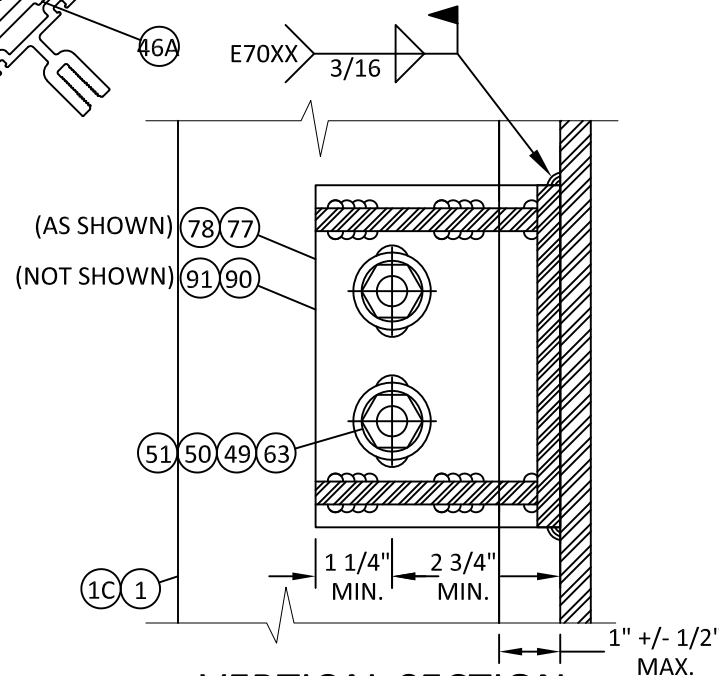
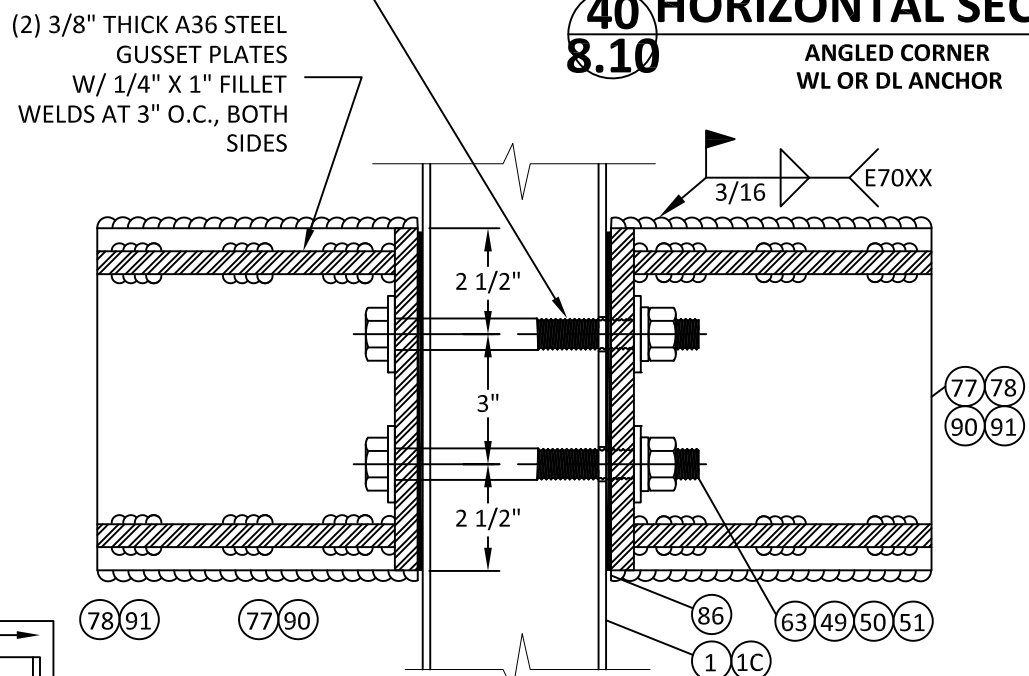
PREPARED BY: **BUILDING DROPS, INC.**
 398 E. DANIA BEACH BLVD., STE. 338
 DANIA BEACH, FL 33004
 PH: (954)399-8478
 FAX: (954)744-4738
 WEB: www.buildingdrops.com

- DEAD & WIND LOAD ANCHOR NOTES:**
- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = 1,219 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.
 - ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE INTERNATIONAL BLDG. CODE BY A REGISTERED PROFESSIONAL ENGINEER.
 - (2) BOLTS (ITEM #54) SHALL BE THROUGH BOLTED IN STANDARD HOLES AT DEAD LOAD ANCHORS AND MAX. 2" LONG SLOTTED HOLES AT WIND LOAD ANCHORS.



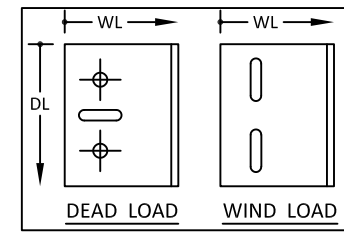
WL ANCHOR CAPACITY		
MAX. TRIBUTARY WIDTH 'W'	MAX. SPAN 'H'	MAX. DESIGN PRESSURE
74"	150"	+/- 90 PSF

40 HORIZONTAL SECTION
8.10 ANGLED CORNER WL OR DL ANCHOR



CORNER MULL FRONT VIEW
 WIND/DEAD LOAD ANCHOR
 AT STEEL SUBSTRATE
 LOW / STANDARD / HIGH PRESSURE CONNECTION

VERTICAL SECTION
 WIND LOAD ANCHOR
 (DEAD LOAD ANCHOR SIMILAR)
 AT STEEL SUBSTRATE
 LOW / STANDARD / HIGH PRESSURE CONNECTION



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

DATE: **08.24.21**
 DWG. BY: **MS** CHK. BY: **HFN**
 SCALE: **NTS**
 DWG. #: **YKK280**
 SECTION:

8.10
 [PAGE 64 OF 72]

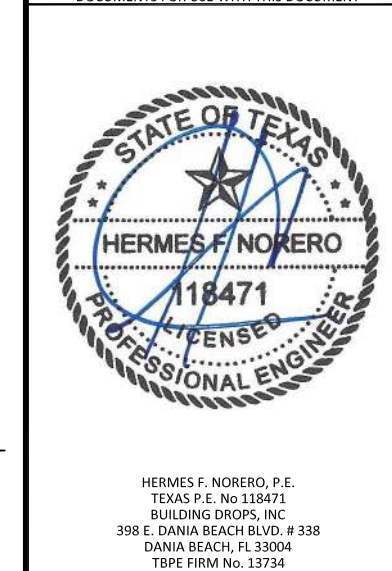
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TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
 WIND LOAD / DEAD LOAD ANCHOR DETAILS

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DATE: **08.24.21**

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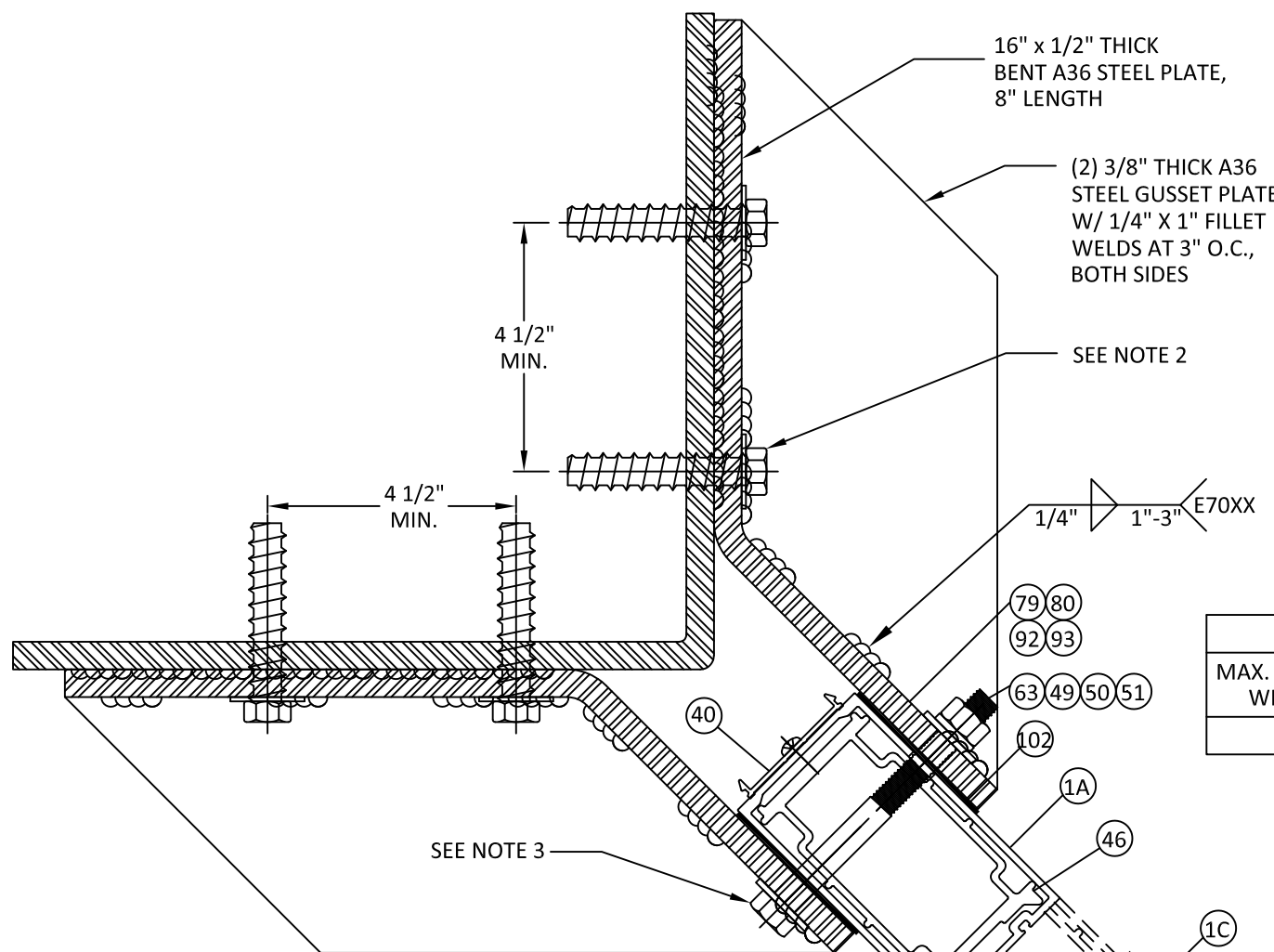
SCALE: **NTS**

DWG. #: **YKK280**

SECTION: **8.11**

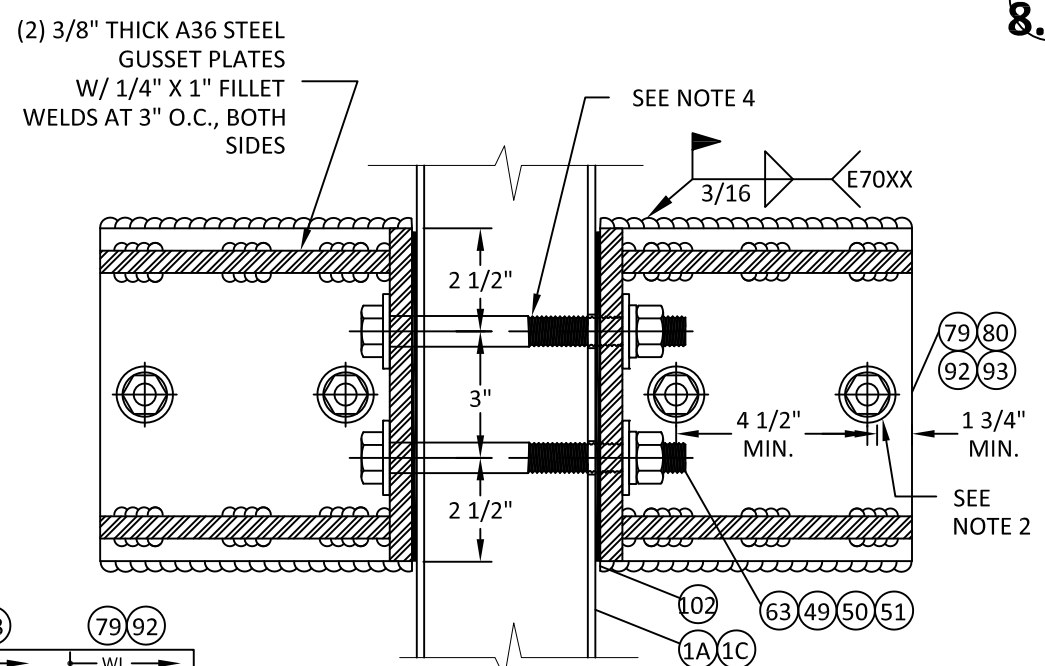
[PAGE 65 OF 72]

- WIND / DEAD LOAD ANCHOR NOTES:**
- WIND/DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 6,300 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - WL = +/- 3,150 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"
 DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = 1,219 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.
 - (2) 1/2" HH GR. 5 OR ASTM A325 THREADED BOLTS PER ANGLE
 - MIN. FULL ENGAGEMENT WITH NUT & WASHER OR
 - THREADED INTO TAPPED HOLE W/ MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE
 - MIN. 1 1/2" EDGE DISTANCE.
 - (2) BOLTS (ITEM #54) SHALL BE THROUGH BOLTED IN STANDARD HOLES AT DEAD LOAD ANCHORS AND MAX. 2" LONG SLOTTED HOLES AT WIND LOAD ANCHORS.

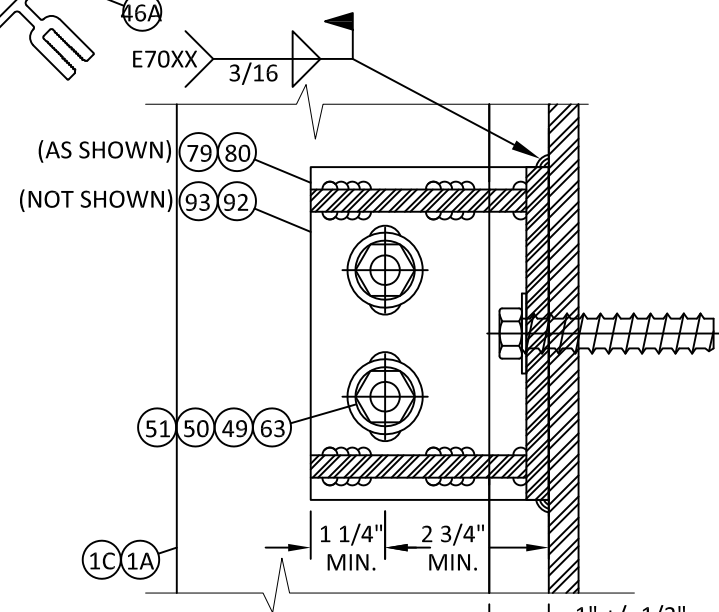
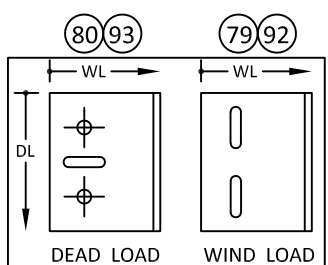


WL ANCHOR CAPACITY		
MAX. TRIBUTARY WIDTH 'W'	MAX. SPAN 'H'	MAX. DESIGN PRESSURE
74"	150"	+/- 90 PSF

8.11 HORIZONTAL SECTION
 ANGLED CORNER WL OR DL ANCHOR



CORNER MULL FRONT VIEW
 WIND/DEAD LOAD ANCHOR
 AT STEEL SUBSTRATE
 LOW / STANDARD / HIGH PRESSURE CONNECTION



VERTICAL SECTION
 WIND LOAD ANCHOR
 (DEAD LOAD ANCHOR SIMILAR)
 AT STEEL SUBSTRATE
 LOW / STANDARD / HIGH PRESSURE CONNECTION

s:\projects\ykk_ap_america, inc\tdr-21-0820 - tdr submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs 8 - wind & dead load anchor dtds.dwg 8/26/2021 1:58 PM

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
 WIND LOAD / DEAD LOAD ANCHOR DETAILS

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REMARKS	BY	DATE

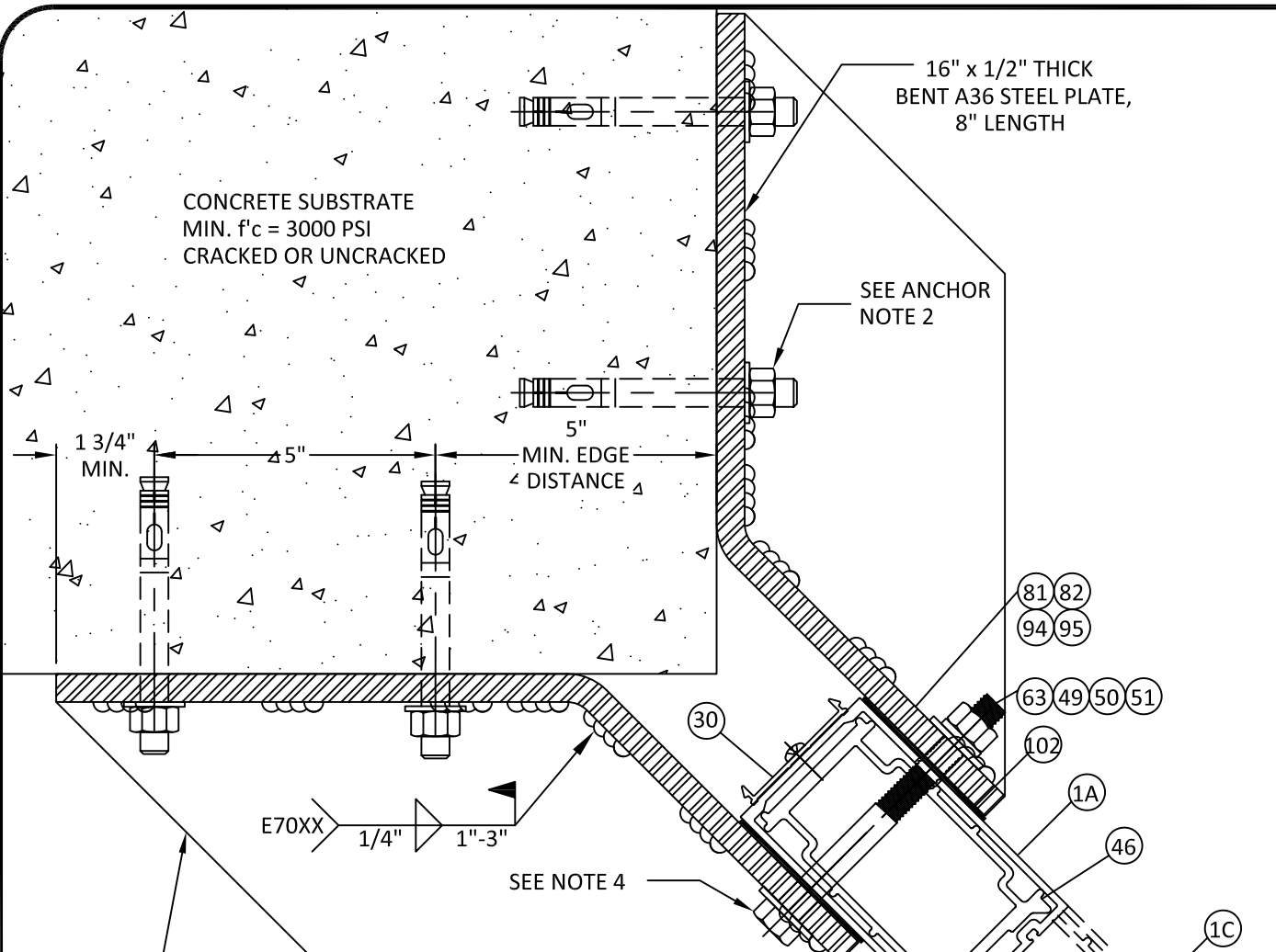
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 TBPE FIRM No. 13734

DATE:	08.24.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK280
SECTION:	8.12

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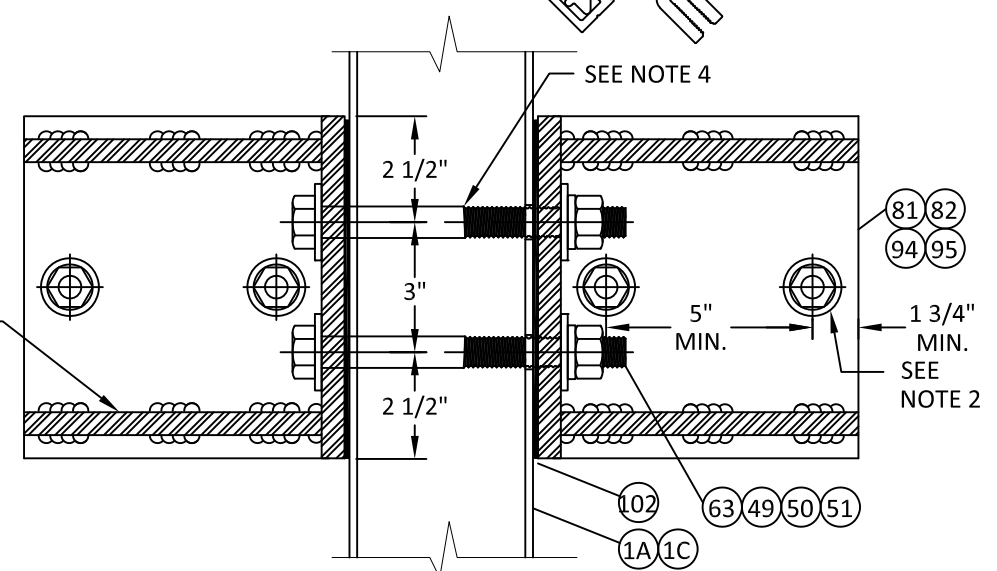


8.12 HORIZONTAL SECTION
 OUTSIDE CORNER
 WL OR DL ANCHOR

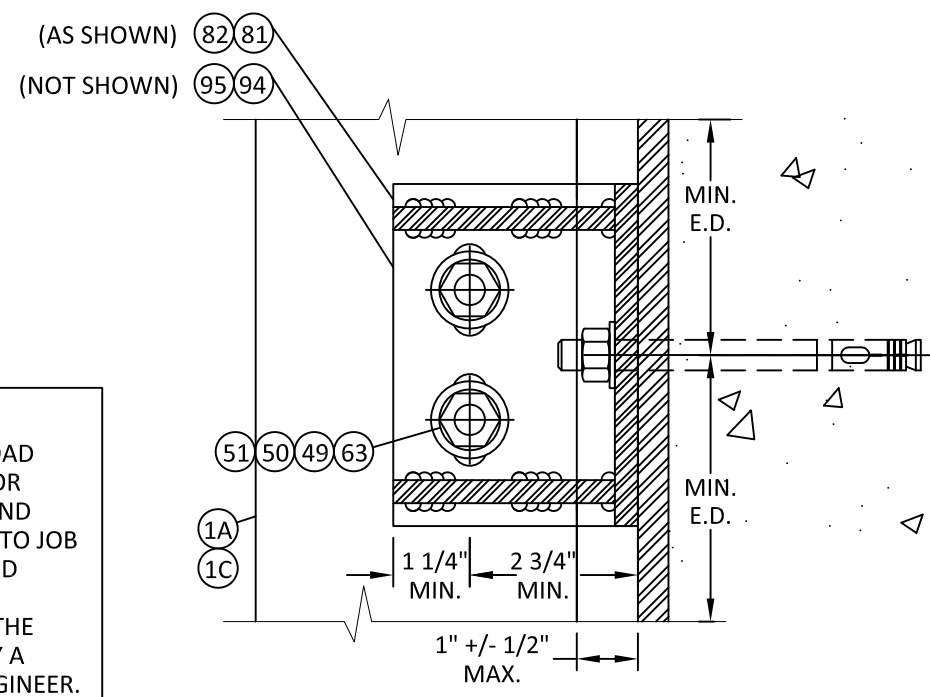
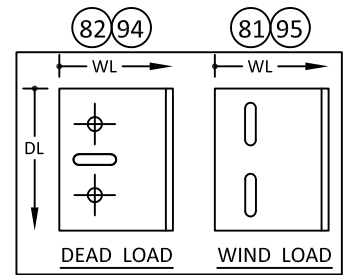
(2) 3/8" THICK A36 STEEL GUSSET PLATES W/ 1/4" X 1" FILLET WELDS AT 3" O.C., BOTH SIDES

(2) 3/8" THICK A36 STEEL GUSSET PLATES W/ 1/4" X 1" FILLET WELDS AT 3" O.C., BOTH SIDES

NOTE:
 1) ALTERNATE WIND & DEAD LOAD ANCHORS MAY BE DESIGNED FOR ALTERNATE SITE CONDITIONS AND STEEL ANGLE DESIGN ON A JOB TO JOB BASIS FOR THE APPLICABLE WIND LOADS AS DETERMINED IN ACCORDANCE WITH CH. 16 OF THE INTERNATIONAL BLDG. CODE BY A REGISTERED PROFESSIONAL ENGINEER.



CORNER MULL FRONT VIEW
 WIND/DEAD LOAD ANCHOR
 AT CONCRETE SUBSTRATE
 LOW/ STANDARD/ HIGH PRESSURE CONNECTION



VERTICAL SECTION
 WIND LOAD ANCHOR
 (DEAD LOAD ANCHOR SIMILAR)
 AT CONCRETE SUBSTRATE LOW / STANDARD/HIGH PRESSURE CONNECTION

DEAD & WIND LOAD ANCHOR NOTES:

- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - DL = 1,219 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.
- TYPE F - (2) 1/2" HILTI KWIKBOLT3 PER ANGLE
 - MIN. EMBEDMENT = 3 1/4"
 - MAX. C.C. SPACING = 5"
 - MIN. EDGE DISTANCE = 4"
 - MIN. 4000 PSI CONCRETE
- TYPE N - (2) 1/2" POWER WEDGE PER ANGLE
 - MIN. EMBEDMENT = 3 1/2"
 - MAX. C.C. SPACING = 5"
 - MIN. EDGE DISTANCE = 4 1/8"
 - MIN. 3000 PSI CONCRETE
- TYPE H - (2) 3/8" SIMPSON TITEN HD PER ANGLE
 - MIN. EMBEDMENT = 3 1/4"
 - MAX. C.C. SPACING = 5"
 - MIN. EDGE DISTANCE = 3 5/8"
 - MIN. 4000 PSI CONCRETE
- FOR SLABS LESS THAN 8" IN THICKNESS, DESIGN MAY BE PROVIDED ON JOB TO JOB BASIS FOR REVIEW & APPROVAL BY AHJ
- (2) BOLTS (ITEM #54) SHALL BE THROUGH BOLTED IN STANDARD HOLES AT DEAD LOAD ANCHORS AND MAX. 2" LONG SLOTTED HOLES AT WIND LOAD ANCHORS.

WIND/DEAD LOAD TABLES
STANDARD DUTY MULLION

WIND LOAD FOR STD MULLION			
NOMINAL DIMENSIONS		ANCHOR 'UNCRAKED'	ANCHOR 'CRACKED'
WIDTH (IN.)	HEIGHT (IN.)		
30	108	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	90.0
60	114	90.0	85.0
30		90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54	114	90.0	89.0
60		90.0	80.0
30		90.0	90.0
36		90.0	90.0
42		90.0	90.0
48	120	90.0	90.0
54		90.0	85.0
60		88.0	76.0
30		90.0	90.0
36		90.0	90.0
42	126	90.0	90.0
48		90.0	90.0
54		90.0	81.0
30		90.0	90.0
36		90.0	90.0
42	132	90.0	90.0
48		90.0	87.0
54		89.0	77.0
30		90.0	90.0
36		90.0	90.0
42	138	90.0	90.0
48		90.0	83.0
30		90.0	90.0
36		90.0	90.0
42		144	90.0
48	90.0		80.0
30	90.0		90.0
36	90.0		90.0
42	150		90.0
48		88.0	76.0

WIND + DEAD LOAD FOR STD MULLION			
NOMINAL DIMENSIONS		ANCHOR 'UNCRAKED'	ANCHOR 'CRACKED'
WIDTH (IN.)	HEIGHT (IN.)		
30	108	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	85.0
60	114	90.0	77.0
30		90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54	114	90.0	81.0
60		85.0	73.0
30		90.0	90.0
36		90.0	90.0
42		120	90.0
48	90.0		87.0
54	90.0		77.0
60	81.0		69.0
30	90.0		90.0
36	126	90.0	90.0
42		90.0	90.0
48		90.0	82.0
54		85.0	73.0
30		90.0	90.0
36	132	90.0	90.0
42		90.0	90.0
48		90.0	79.0
54		81.0	70.0
30		90.0	90.0
36	138	90.0	90.0
42		90.0	86.0
48		88.0	75.0
30		90.0	90.0
36		144	90.0
42	90.0		82.0
48	84.0		72.0
30	90.0		90.0
36	150		90.0
42		90.0	79.0
48		81.0	69.0

WIND/DEAD LOAD TABLES
HEAVY DUTY MULLION

WIND LOAD FOR HD MULLION				
NOMINAL DIMENSIONS		ANCHOR 'UNCRAKED'	ANCHOR 'CRACKED'	
WIDTH (IN.)	HEIGHT (IN.)			
30	108	130.0	130.0	
36		130.0	130.0	
42		130.0	121.9	
48		123.3	106.7	
54		109.6	94.8	
60		98.7	85.3	
66		89.7	77.6	
72		82.2	71.1	
30		114	130.0	130.0
36			130.0	130.0
42	130.0		115.5	
48	116.8		101.1	
54	103.9		89.8	
60	93.5		80.8	
66	85.0		73.5	
72	77.9		67.4	
30	120		130.0	130.0
36			130.0	128.0
42		126.9	109.7	
48		111.0	96.0	
54		98.7	85.3	
60		88.8	76.8	
66		80.7	69.8	
72		74.0	64.0	
30		126	130.0	130.0
36			130.0	121.9
42	120.8		104.5	
48	105.7		91.4	
54	94.0		81.3	
60	84.6		73.1	
66	76.9		66.5	
30	132		130.0	130.0
36			130.0	116.4
42			115.3	99.7
48		100.9	87.3	
54		89.7	77.6	
60		80.7	69.8	
66		73.4	63.5	
30		138	130.0	130.0
36			128.7	111.3
42			110.3	95.4
48	96.5		83.5	
54	85.8		74.2	
60	77.2		66.8	
30	144		130.0	128.0
36			123.3	106.7
42			105.7	91.4
48			92.5	80.0
54		82.2	71.1	
60		74.0	64.0	
30		150	130.0	122.9
36			118.4	102.4
42			101.5	87.8
48			88.8	76.8
54	78.9		68.3	
60	71.0		61.4	

WIND + DEAD LOAD FOR HD MULLION			
NOMINAL DIMENSIONS		ANCHOR 'UNCRAKED'	ANCHOR 'CRACKED'
WIDTH (IN.)	HEIGHT (IN.)		
30	108	130.0	130.0
36		130.0	128.9
42		128.8	110.5
48		112.7	96.7
54		100.1	85.9
60	114	90.1	77.3
30		130.0	130.0
36		130.0	122.1
42		122.0	104.7
48		106.7	91.6
54	114	94.9	81.4
60		85.4	73.3
30		130.0	130.0
36		130.0	116.0
42		115.9	99.4
48	120	101.4	87.0
54		90.1	77.3
60		81.1	69.6
30		130.0	130.0
36		128.8	110.5
42	126	110.4	94.7
48		96.6	82.9
54		85.8	73.7
60		77.3	66.3
30		130.0	126.5
36	132	122.9	105.5
42		105.4	90.4
48		92.2	79.1
54		81.9	70.3
60		73.7	63.3
30	138	130.0	121.0
36		117.6	100.9
42		100.8	86.5
48		88.2	75.7
54		78.4	67.2
60	144	70.5	60.5
30		130.0	116.0
36		112.7	96.7
42		96.6	82.9
48		84.5	72.5
54	150	75.1	64.4
60		67.6	58.0
30		129.8	111.4
36		108.2	92.8
42		92.7	79.5
48	150	81.1	69.6
54		72.1	61.9
60		64.9	55.7



YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
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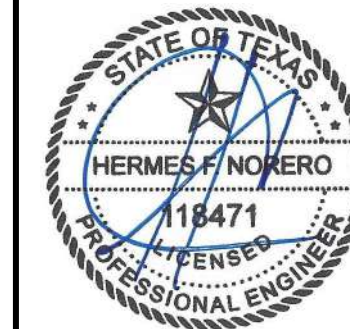
TITLE: YHC - 300 OG
CURTAIN WALL SYSTEM
WIND LOAD / DEAD LOAD ANCHOR DETAILS

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

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: 08.24.21
DWG. BY: MS
CHK. BY: HFN
SCALE: NTS
DWG. #: YKK280

SECTION:
8.13
[PAGE 67 OF 72]

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s:\projects\ykk_ap_america, inc\tdr-21-0820 - tdr submittal - revision series yhc-300 og curtain wall (cwsf-54)\dwgs\ykk-280 - dwgs & - wind & dead load anchor dtds.dwg

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**

COMPONENTS

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: **08.24.21**

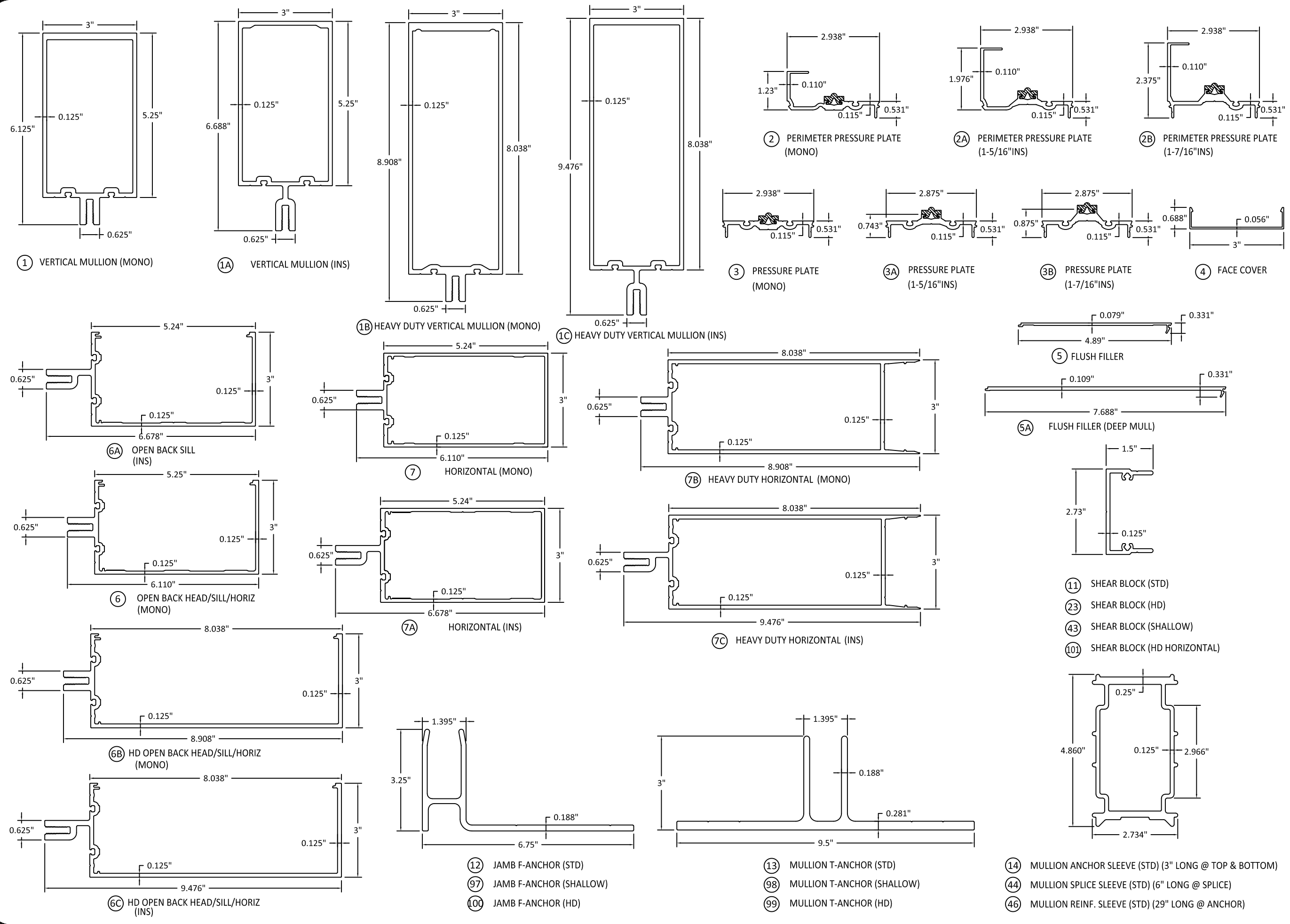
DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

SECTION:

90



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TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**

COMPONENTS

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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REMARKS	BY	DATE

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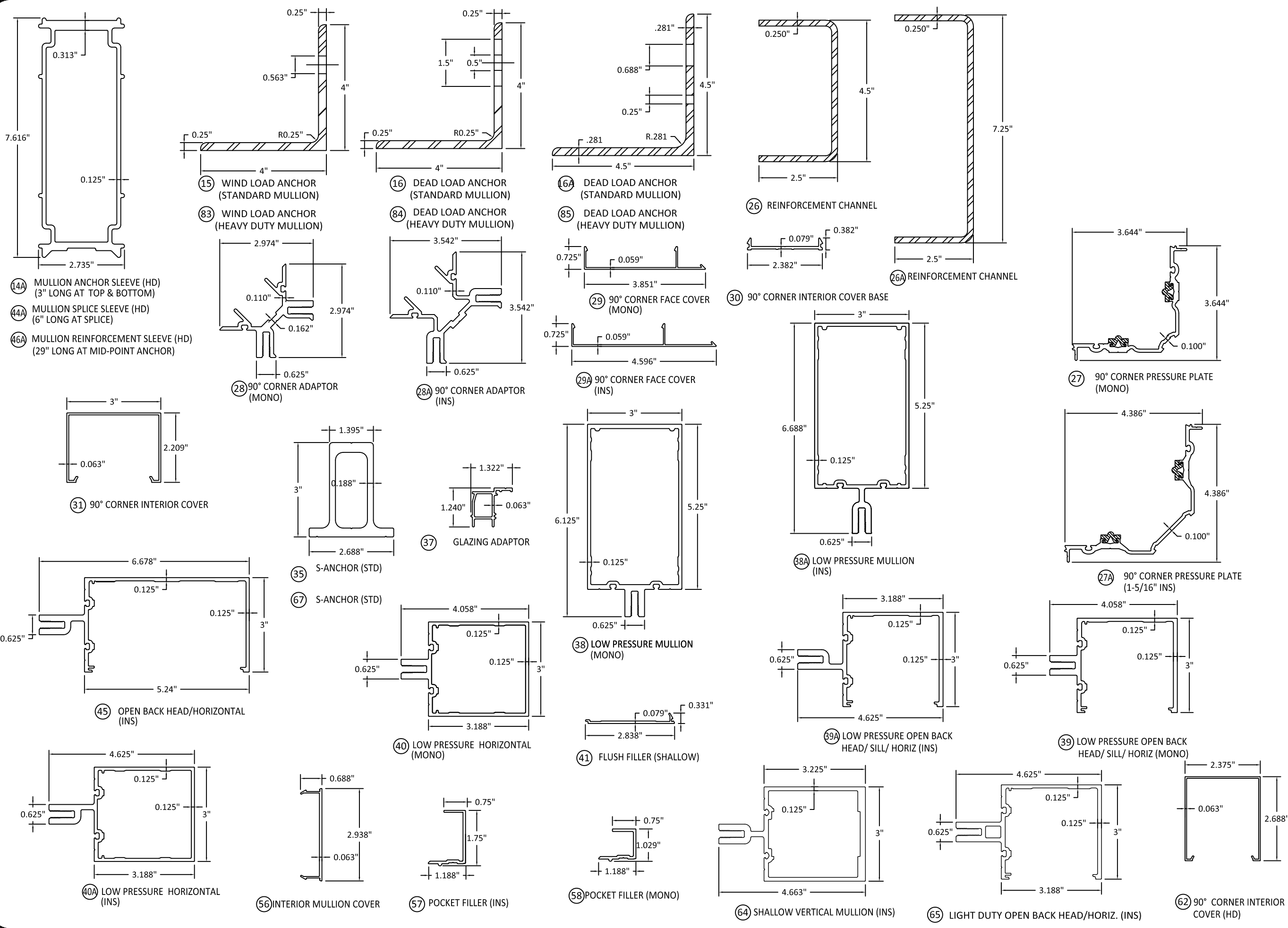


HERMES F. NORERO, P.E.
 TEXAS P.E. No 118471
 BUILDING DROPS, INC
 398 E. DANIA BEACH BLVD. # 338
 DANIA BEACH, FL 33004
 TBPE FIRM No. 13734

DATE: **08.24.21**

DWG. BY: MS	CHK. BY: HFN
SCALE: NTS	
DWG. #: YKK280	
SECTION: 9.1	

[PAGE 69 OF 72]



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TITLE: YHC - 300 OG CURTAIN WALL SYSTEM

BILL OF MATERIALS

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

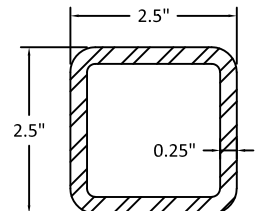
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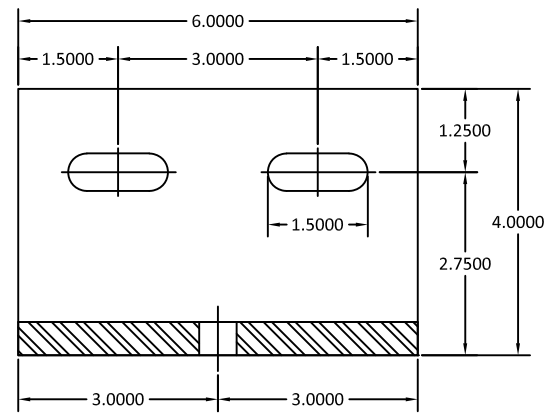
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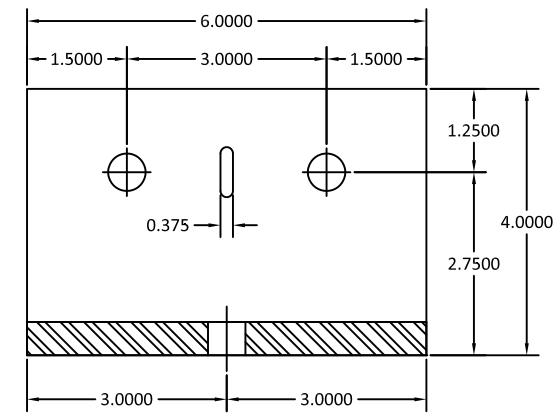
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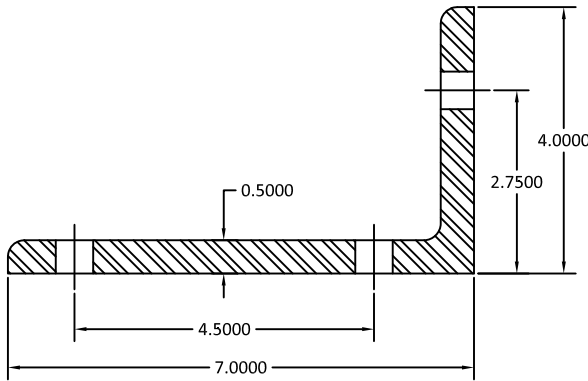
66 STEEL TUBE 2 1/2" X 2 1/2" X 1/4"



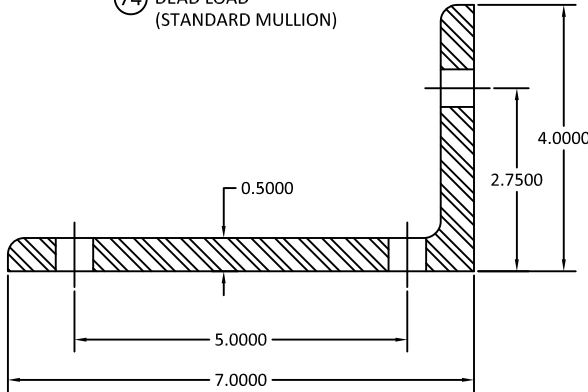
73 WIND LOAD (STANDARD MULLION)
 75 WIND LOAD (STANDARD MULLION)



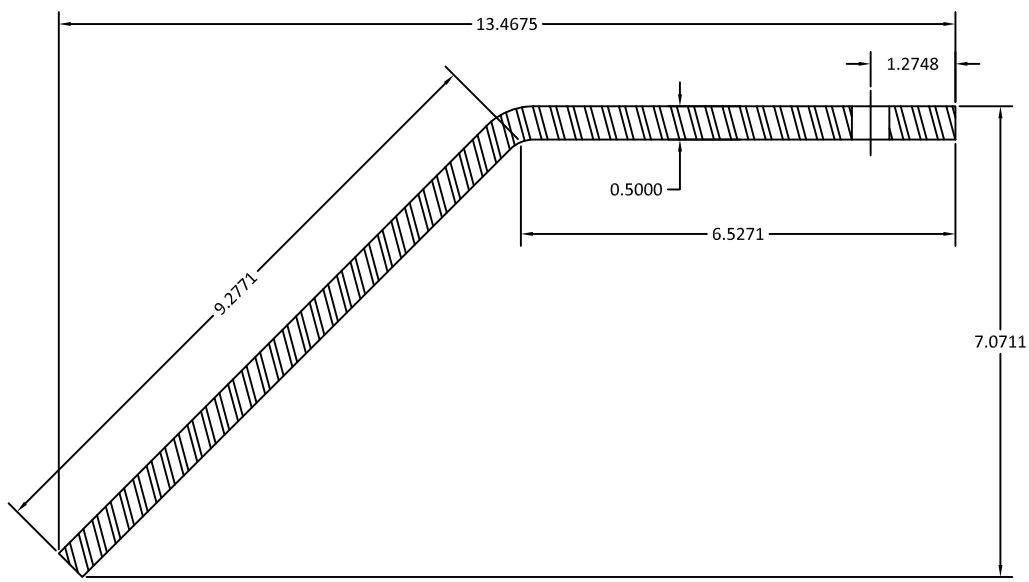
74 DEAD LOAD (STANDARD MULLION)
 76 DEAD LOAD (STANDARD MULLION)



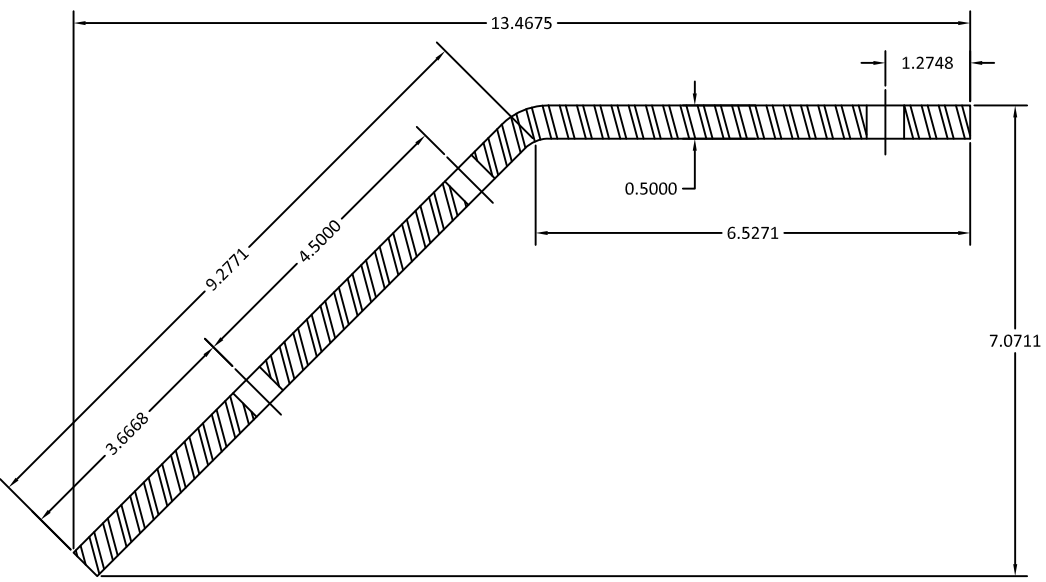
73 WIND LOAD (STANDARD MULLION)
 74 DEAD LOAD (STANDARD MULLION)



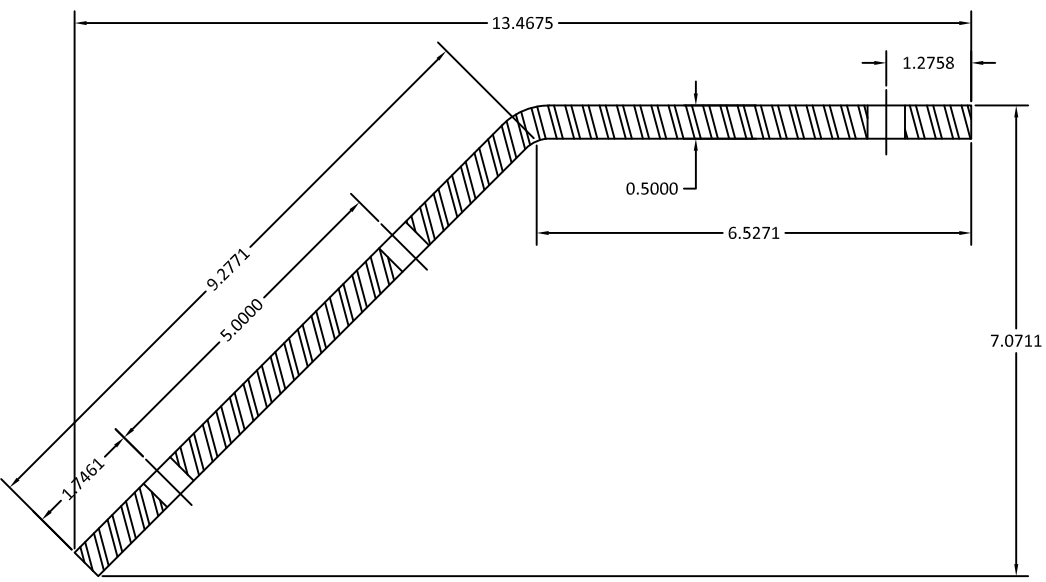
75 WIND LOAD (STANDARD MULLION)
 76 DEAD LOAD (STANDARD MULLION)



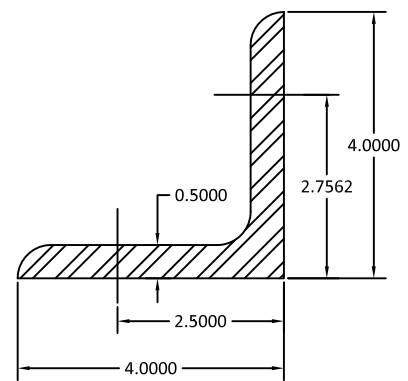
77 WIND LOAD (STANDARD MULLION)
 78 DEAD LOAD (STANDARD MULLION)
 90 WIND LOAD (HD MULLION)
 91 DEAD LOAD (HD MULLION)



79 WIND LOAD (STANDARD MULLION)
 80 DEAD LOAD (STANDARD MULLION)
 92 WIND LOAD (HD MULLION)
 93 DEAD LOAD (HD MULLION)



81 STEEL ANGLE (STANDARD MULLION)
 82 STEEL ANGLE (STANDARD MULLION)
 94 WIND LOAD (HD MULLION)
 95 DEAD LOAD (HD MULLION)



96 WINDLOAD ANCHOR (SHALLOW MULLION)

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**

BILL OF MATERIALS

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: **08.24.21**

DWG. BY: **MS**

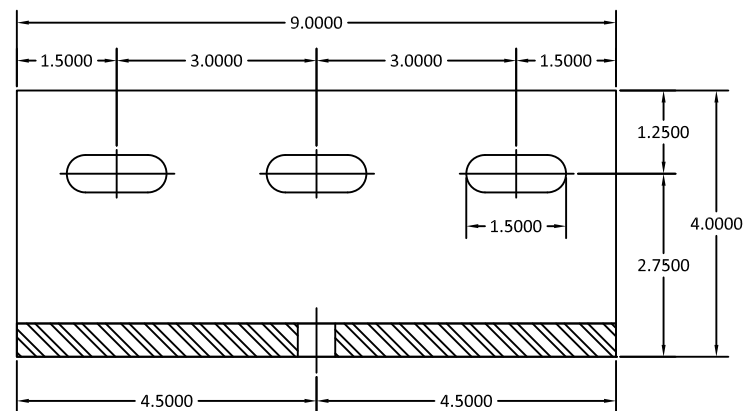
CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK280**

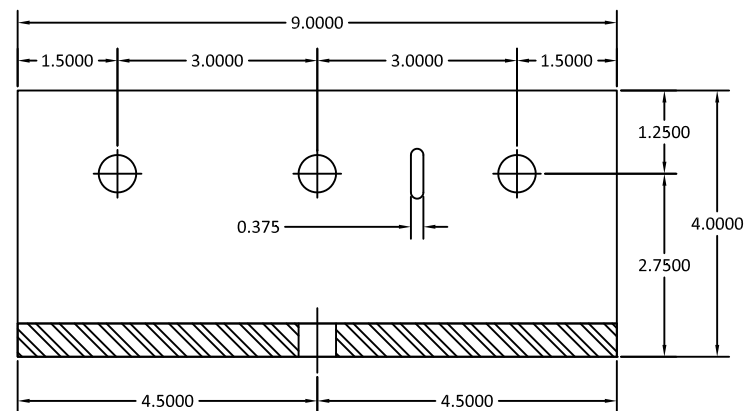
SECTION:

9.3



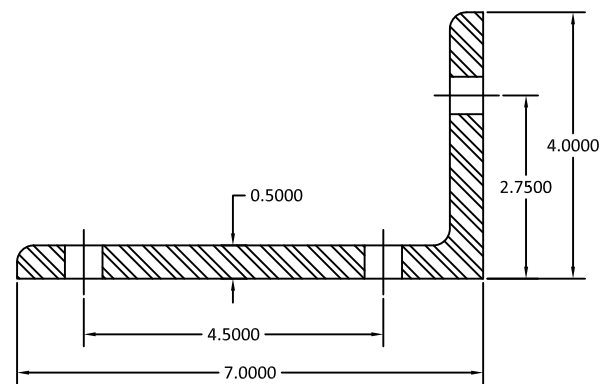
86 WIND LOAD (HD MULLION)

88 WIND LOAD (HD MULLION)



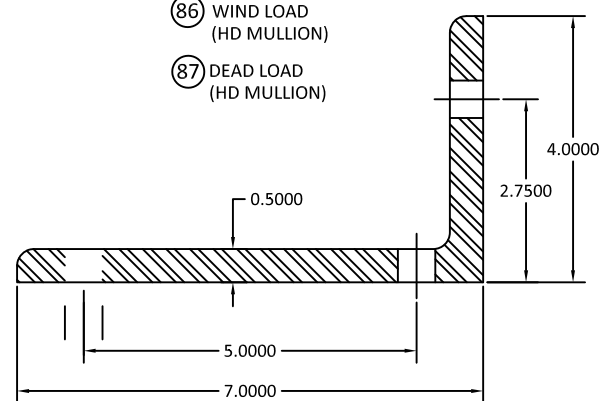
87 DEAD LOAD (HD MULLION)

89 DEAD LOAD (HD MULLION)



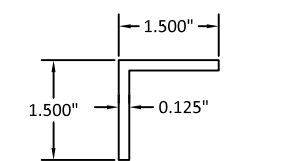
86 WIND LOAD (HD MULLION)

87 DEAD LOAD (HD MULLION)

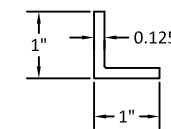


88 WIND LOAD (HD MULLION)

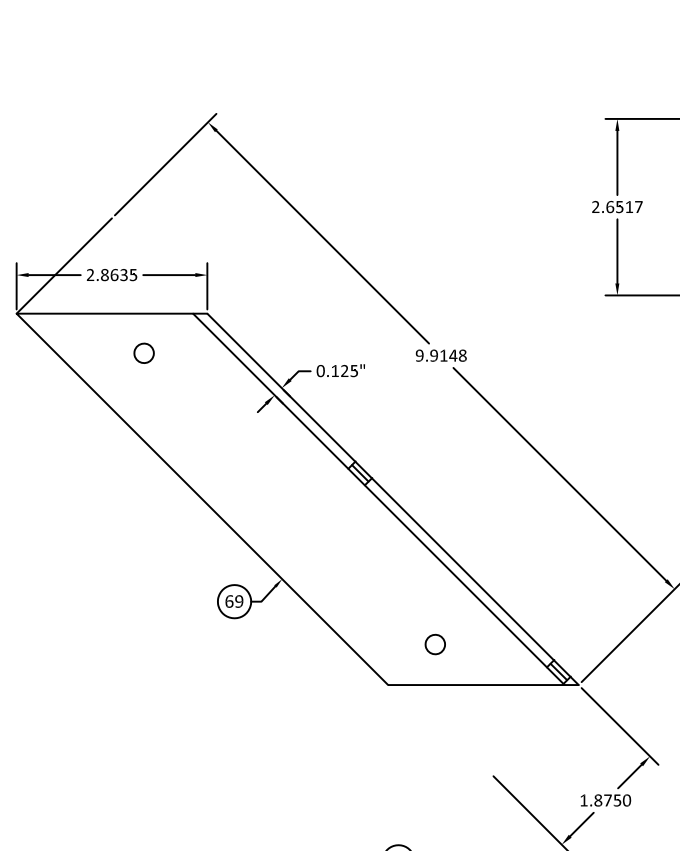
89 DEAD LOAD (HD MULLION)



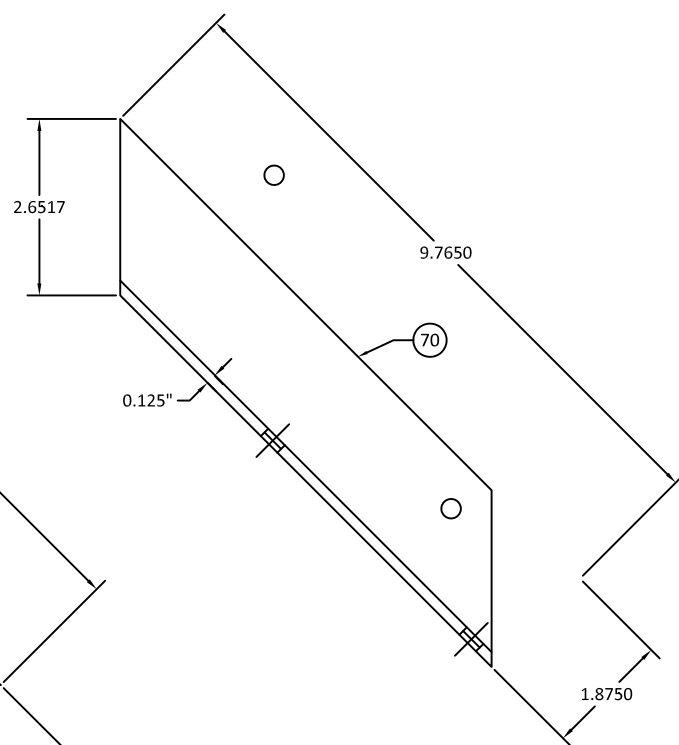
104 1-1/2" X 1-1/2" X 1/8" ANGLE



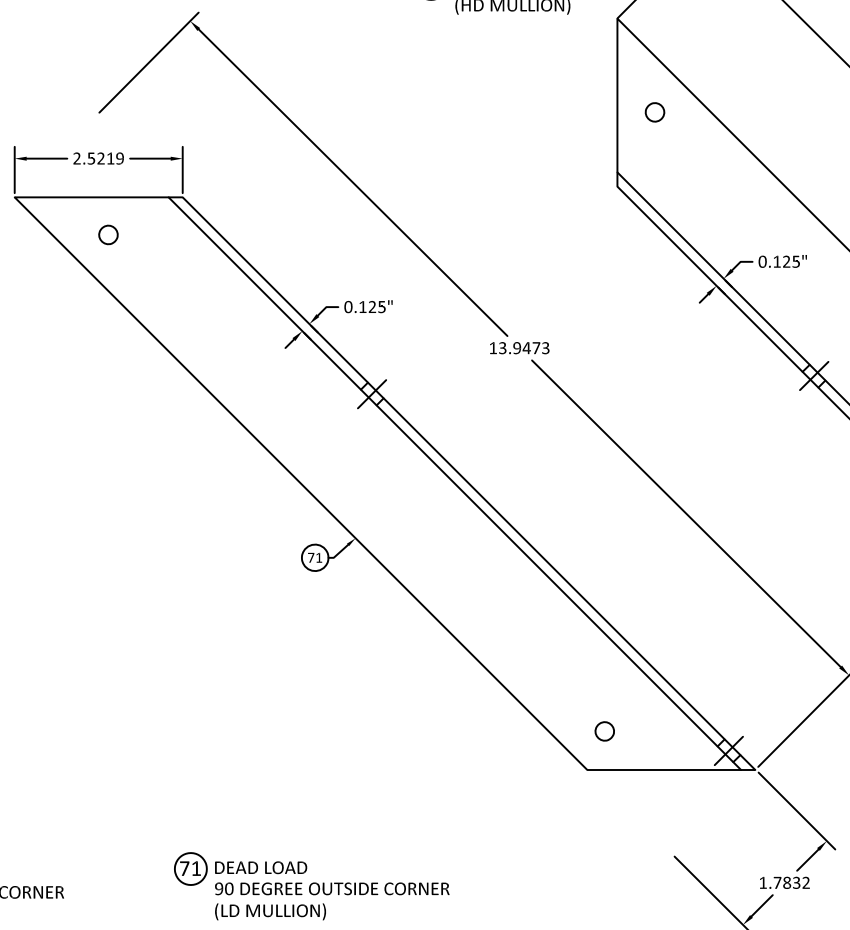
105 1" X 1" X 1/8" ANGLE



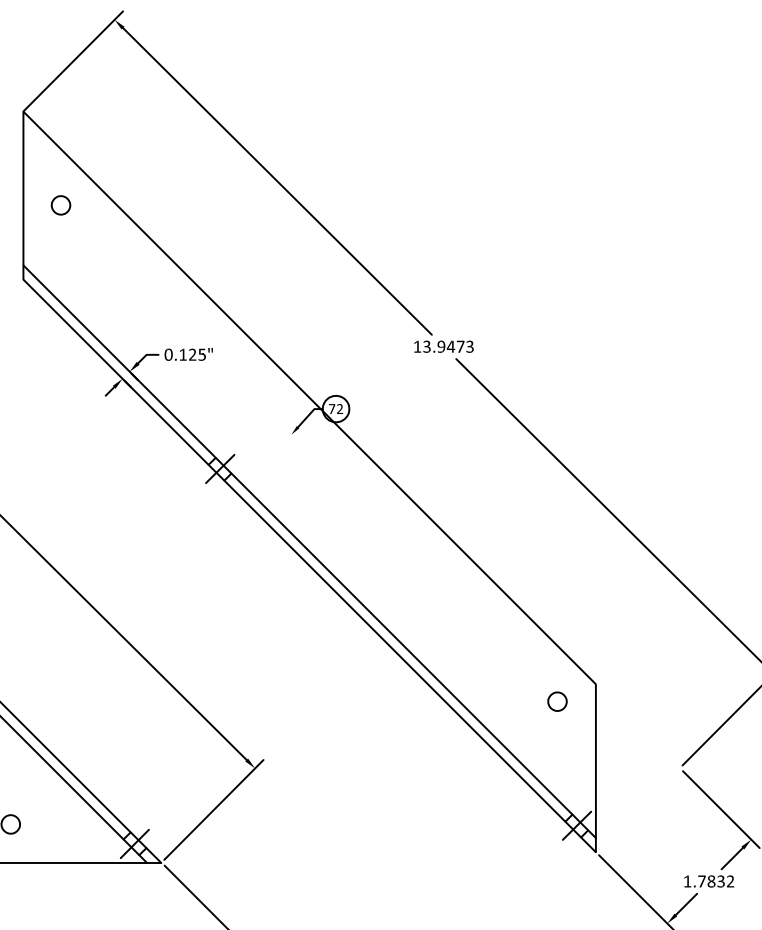
69 DEAD LOAD 90 DEGREE INSIDE CORNER (LD MULLION)



70 DEAD LOAD 90 DEGREE INSIDE CORNER (LD MULLION)



71 DEAD LOAD 90 DEGREE OUTSIDE CORNER (LD MULLION)



72 DEAD LOAD 90 DEGREE OUTSIDE CORNER (LD MULLION)



YKK AP AMERICA
 1229 HWY 441 BYPASS
 DUBLIN, GEORGIA 31021
 PH: (478)277-1955 FAX: (678)838-6001

TITLE: **YHC - 300 OG CURTAIN WALL SYSTEM**
 BILL OF MATERIALS

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:	08.24.21
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK280
SECTION:	9.4

ITEM	PART NO.	DESCRIPTION	MATERIAL
66	E1-0177	STEEL TUBE (2-1/2" X 2-1/2" X 1/4")	A36 STEEL
67	E1-3038	S ANCHOR (HD)	6063-T6
68	E1-3010	MULLION END CAP (INS)	ALUM. SHEET
69	E1-3016	90° CORNER SHEAR CLIP (RH)	6063-T5
70	E1-3017	90° CORNER SHEAR CLIP (LH)	6063-T5
71	E1-3028	90° CORNER SHEAR CLIP (HD)(RH)	6063-T5
72	E1-3029	90° CORNER SHEAR CLIP (HD)(LH)	6063-T5
73	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
74	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
75	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
76	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
77	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
78	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
79	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
80	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
81	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
82	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL
83	E1-1280	WINDLOAD ANCHOR	A36 STEEL
84	E1-1281	DEADLOAD ANCHOR	A36 STEEL
85	-	DEADLOAD ANCHOR (NOT BY YKK AP)	A36 STEEL
86	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
87	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
88	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
89	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
90	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
91	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
92	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
93	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
94	-	WINDLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
95	-	DEADLOAD ANCHOR (HD MULLION)(NOT BY YKK AP)	A36 STEEL
96	-	WINDLOAD ANCHOR (SHALLOW MULLION)(NOT BY YKK AP)	A36 STEEL
97	E1-3047	JAMB F ANCHOR (SHALLOW)	6063-T5
98	E1-3046	MULLION T ANCHOR (SHALLOW)	6063-T5
99	E1-3034	MULLION T ANCHOR (HD)	6063-T5
100	E1-3035	JAMB F ANCHOR (HD)	6063-T5
101	E1-3032	SHEAR BLOCK (HD HORIZ)	6063-T5
102	E3-0103	NYLON SLIP PAD	NYLON
103	E2-0356	ISOLATOR TAPE	PVC SPONGE
104	E9-9303	1-1/2" X 1-1/2" X 1/8" ANGLE	6063-T5
105	E9-9302	1" X 1" X 1/8" ANGLE	6063-T5
106	E2-0537	SIDE BLOCK	EPDM (85±5)
107	HM-2516-W3	#1/4"-20 X 1" HWHMS	ZINC PLATED STEEL
108	FC-1456	#14 X 3 1/2" FHSMS TYPE AB	ZINC PLATED STEEL

ITEM	PART NO.	DESCRIPTION	MATERIAL
29	E9-3176	90° CORNER FACE COVER (MONO)	6063-T5
29A	E9-3174	90° CORNER FACE COVER (INS)	6063-T5
30	E9-1280	90° CORNER INTERIOR COVER BASE	6063-T5
31	E9-3165	90° CORNER INTERIOR COVER	6063-T5
32	PC-1008	#10 X 1/2" PHSMS TYPE AB	ZINC PLATED STEEL
33	E1-0190	DEADLOAD ANCHOR FOR 90° CORNER	A36 STEEL
33A	-	STEEL ANGLE	A36 STEEL
34	E1-0191	WINDLOAD ANCHOR FOR 90° CORNER	A36 STEEL
34A	-	STEEL ANGLE	A36 STEEL
35	E1-3039	S ANCHOR (STD)	6063-T6
36	E2-0386	ISOLATOR TAPE	PVC SPONGE
37	E9-3147	GLAZING ADAPTOR	6063-T5
38	E9-3107	LOW PRESSURE MULLION (MONO)	6063-T6
38A	E9-3111	LOW PRESSURE MULLION (INS)	6063-T6
39	E9-8168	LOW PRESSURE OPEN BACK HEAD/SILL/HORIZ (MONO)	6063-T5
39A	E9-3112	LOW PRESSURE OPEN BACK HEAD/SILL/HORIZ (INS)	6063-T6
40	E9-8167	LOW PRESSURE HORIZONTAL (MONO)	6063-T5
40A	E9-3113	LOW PRESSURE HORIZONTAL (INS)	6063-T5
41	E9-8169	FLUSH FILLER (SHALLOW)	6063-T5
42	E1-3011	MULLION END CAP (MONO)	ALUM. SHEET
43	E1-3036	SHEAR BLOCK (SHALLOW)	6063-T5
44	E1-3005	MULLION SPLICE SLEEVE (STD) (6" LONG @ SPLICE)	6063-T5
44A	E1-3037	MULLION SPLICE SLEEVE (HD) (6" LONG @ SPLICE)	6063-T5
45	E9-3159	OPEN BACK HEAD/HORIZONTAL (INS)	6063-T5
46	E1-3007	MULLION REINFORCEMENT SLEEVE (STD)(29" LONG @ ANCHOR)	6063-T5
46A	E1-3030	MULLION REINFORCEMENT SLEEVE (HD)(29" LONG @ ANCHOR)	6063-T5
47	-	-	-
48	FC-1410	#14 X 5/8" FHSMS TYPE AB	ZINC PLATED STEEL
49	HM-5000	1/2"-13 NUT HHMS	ZINC PLATED STEEL
50	WS-5000	1/2" LOCK WASHER	ZINC PLATED STEEL
51	WW-5000	1/2" FLAT WASHER	ZINC PLATED STEEL
52	FF-0808	#8-32 X 1/2" FHMS TYPE F	ZINC PLATED STEEL
53	N/A	#8-32 X 3-1/2" FHSMSM @ 16" OC	ZINC PLATED STEEL
54	FC-1212	#12 X 3/4" FHSMS TYPE AB	ZINC PLATED STEEL
55	-	-	-
56	E9-3186	INTERIOR MULLION COVER	6063-T6
57	E9-3110	POCKET FILLER (INS)	6063-T5
58	E9-3109	POCKET FILLER (MONO)	6063-T5
59	PC-1008	#10 X 1/2" PHSMS TYPE AB	ZINC PLATED STEEL
60	E1-3018	MULLION T ANCHOR FOR 90° CORNER	
61	E2-0103	THERMAL ISOLATOR	EPDM (85±5)
62	E9-3160	90° CORNER INTERIOR COVER (HD)	
63	-	1/2"-13 HHMS BOLT (GRADE 5) OF SUFFICIENT LENGTH TO ACHIEVE FULL ENGAGEMENT W/ NUT SAE GR5 OR ASTM A325	
64	E9-3126	SHALLOW VERTICAL MULLION (INS)	6063-T6
65	E9-3127	LIGHT DUTY OPEN BACK HEAD/HORIZONTAL (INS)	6063-T5

ITEM	PART NO.	DESCRIPTION	MATERIAL
1	E9-3103	VERTICAL MULLION (MONO)	6063-T6
1A	E9-3101	VERTICAL MULLION (INS)	6063-T6
1B	E9-3182	HD VERTICAL MULLION (MONO)	6063-T6
1C	E9-3183	HD VERTICAL MULLION (INS)	6063-T6
2	AS-3179	PERIMETER PRESSURE PLATE (MONO)	6063-T5
2A	AS-3178	PERIMETER PRESSURE PLATE (1-5/16" INS)	6063-T5
2B	AS-8134	PERIMETER PRESSURE PLATE (1-7/16" INS)	6063-T5
3	AS-3173	PRESSURE PLATE (MONO)	6063-T5
3A	AS-3172	PRESSURE PLATE (1-5/16" INS)	6063-T5
3B	AS-8135	PRESSURE PLATE (1-7/16" INS)	6063-T5
4	E9-3161	FACE COVER	6063-T5
5	E9-3162	FLUSH FILLER	6063-T5
5A	E9-3188	FLUSH FILLER (DEEP MULL)	6063-T6
6	E9-3105	OPEN BACK HEAD / HORIZ / SILL (MONO)	6063-T5
6A	E9-3104	OPEN BACK SILL (INS)	6063-T5
6B	E9-3189	HD OPEN BACK HEAD / HORIZ / SILL (MONO)	6063-T6
6C	E9-3187	HD OPEN BACK HEAD / HORIZ / SILL (INS)	6063-T6
7	E9-3106	HORIZONTAL (MONO)	6063-T5
7A	E9-3102	HORIZONTAL (INS)	6063-T5
7B	E9-3190	HD HORIZONTAL (MONO)	6063-T6
7C	E9-3185	HD HORIZONTAL (INS)	6063-T6
8	E2-0379	EXT/INT GLAZING GASKET	EPDM
9	E2-0353	INTERIOR GLAZING SILICONE SPACER	EPDM
10	E2-0623	SETTING BLOCK (MONO)	EPDM (90±5)
10A	E2-0611	SETTING BLOCK (1-5/16" INS)	EPDM (85±5)
10B	E2-0408	SETTING BLOCK (1-7/16" INS)	EPDM (85±5)
11	E1-3001	SHEAR BLOCK (STD)	6063-T5
12	E1-3004	JAMB F ANCHOR (STD)	6063-T5
13	E1-3003	MULLION T ANCHOR (STD)	6061-T6
14	E1-3006	MULLION ANCHOR SLEEVE (STD) (3" LONG @ TOP & BOTTOM)	6063-T5
14A	E1-3033	MULLION ANCHOR SLEEVE (HD) (3" LONG @ TOP & BOTTOM)	6063-T5
15	E1-1204	WINDLOAD ANCHOR (STD)	A36 STEEL
16	E1-1205	DEADLOAD ANCHOR (STD)	A36 STEEL
16A	-	DEAD LOAD (NOT BY YKK AP)	A36 STEEL
17	HD-2520-W3-SS	1/4"-20 X 1-1/4" HWHMS	STAINLESS STEEL
18	FC-1220	#12 X 1-1/4" FHSMS TYPE AB	ZINC PLATED STEEL
19	HF-2510-W1	#1/4"-20 X 5/8" HWHMS TYPE F	ZINC PLATED STEEL
20	PC-1010	#10 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL
21	HM-5072	1/2"-13 X 4-1/2" HHMS BOLT (GR 5)	ZINC PLATED STEEL
22	PC-1210	#12 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL
23	E1-3040	SHEAR BLOCK (HD)	6063-T5
24	TEK-1012	#10-16 X 3/4" TEK HWHMS	ZINC PLATED STEEL
25	PC-1010	#10 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL
26	E1-0175	REINFORCEMENT CHANNEL (2-1/2" X 4-1/2" X 1/4")	A36 STEEL
26A	E1-3031	REINFORCEMENT CHANNEL (2-1/2" X 7-1/4" X 1/4")	A36 STEEL
26B	-	REINFORCEMENT CHANNEL (2-1/2" X 5" X 3/8") (NOT BY YKK AP)	A36 STEEL
27	AS-3177	90° CORNER PRESSURE PLATE (MONO)	6063-T5
27A	AS-3175	90° CORNER PRESSURE PLATE (1-5/16" INS)	6063-T5
28	E9-3146	90° CORNER ADAPTOR (MONO)	6063-T5
28A	E9-3145	90° CORNER ADAPTOR (INS)	6063-T5

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