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YKK AP America, Inc.

YHC 300 OG & SSG CURTAIN WALL SYSTEM - INSULATING GLAZING (HVHZ) (IMPACT)



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

TITLE: YHC 300 OG & SSG CURTAIN WALL SYSTEM (HVHZ) (IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY: BUILDING DROPS, INC.

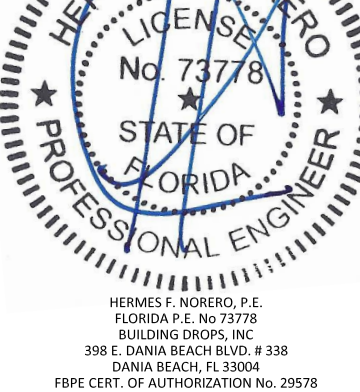
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REMARKS	BY	DATE

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.

Digitally signed by Hermes F. Norero
Reason: I am approving this document
Date: 2020.08.27.17:32:42 -0400



FL #:
FL17111

DATE: **08.18.17**

DWG. BY: **AR/RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK039**

SHEET:
1

INSTALLATION NOTES:

1. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
2. INSTALL INDIVIDUAL ANCHORS WITHIN A TOLERANCE OF +/- 1/16 INCH OF THE DEPICTED LOCATION AS SPECIFIED. TOLERANCES ARE NOT CONSIDERED CUMULATIVE FROM ONE LOCATION TO THE NEXT.
3. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
4. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
5. 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.
6. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH PROPERTIES AS SPECIFIED IN ANCHOR OPTION TABLES OR IN DETAILS PROVIDED. PLEASE REFER TO THE TABLE OF CONTENTS FOR APPLICABLE ANCHOR SUBSTRATE REQUIREMENTS.

INSTRUCTION NOTES:

1. DETERMINE COMPONENT & CLADDING DESIGN WIND LOADS IN ACCORDANCE WITH CHAPTER 16 & 17 OF THE FBC AND APPLICABLE ASCE 7 STANDARDS
2. REFER TO CHARTS ON SHEET 7 FOR ALLOWABLE DESIGN PRESSURES BASED ON GLASS MAKEUP AND SIZE
3. VERIFY MULLION CAPACITIES FOR GIVEN SPANS AND TRIBUTARY WIDTHS IN ACCORDANCE WITH SHEETS 8, 9, & 10.
4. FOR HEAD/SILL ANCHORS, VERIFY ANCHOR DETAILS & CAPACITIES IN ACCORDANCE WITH SHEETS 11, 12, 13, 14, 15, & 16.
5. FOR INTERMEDIATE ANCHORS, VERIFY DETAILS & CAPACITIES IN ACCORDANCE WITH SHEETS 17, 18, 19, 20, & 21.
6. FOR ALTERNATE CURTAIN WALL GEOMETRY, SLOPED & CURVED SECTIONS, VERIFY PERFORMANCE IN ACCORDANCE WITH DETAILS ON SHEETS 22 & 23.
7. THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 6 SHALL GOVERN THE CAPACITY OF THE SYSTEM & COMPONENTS AT EACH SPECIFIC LOCATION.

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ, AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
 - AAMA 501-15
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND STEEL 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.
3. STEEL, CONCRETE/MASONRY, AND WOOD FRAMING (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. LOADS IMPOSED TO THE STRUCTURE SHALL BE VERIFIED BY THE E.O.R. THAT THE PROVIDED STRUCTURE IS ADEQUATE TO RESIST LOADS AND LOCAL LIMIT STATES OF THE MEMBER ARE CHECKED. DESIGN AND INSTALLATION OF THE STRUCTURE IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. 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 IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION (AHJ).
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. FRAME MATERIAL: 6063-T5 & 6063-T6 ALUMINUM.
7. DISSIMILAR METALS INCLUDING FASTENERS THAT MAY COME INTO CONTACT WITH ALUMINUM UNIT FRAMING SHALL BE PROTECTED AS SPECIFIED IN THE FBC.
8. GLASS SHALL MEET THE REQUIREMENTS OF ASTM E1300 GLASS CHARTS.

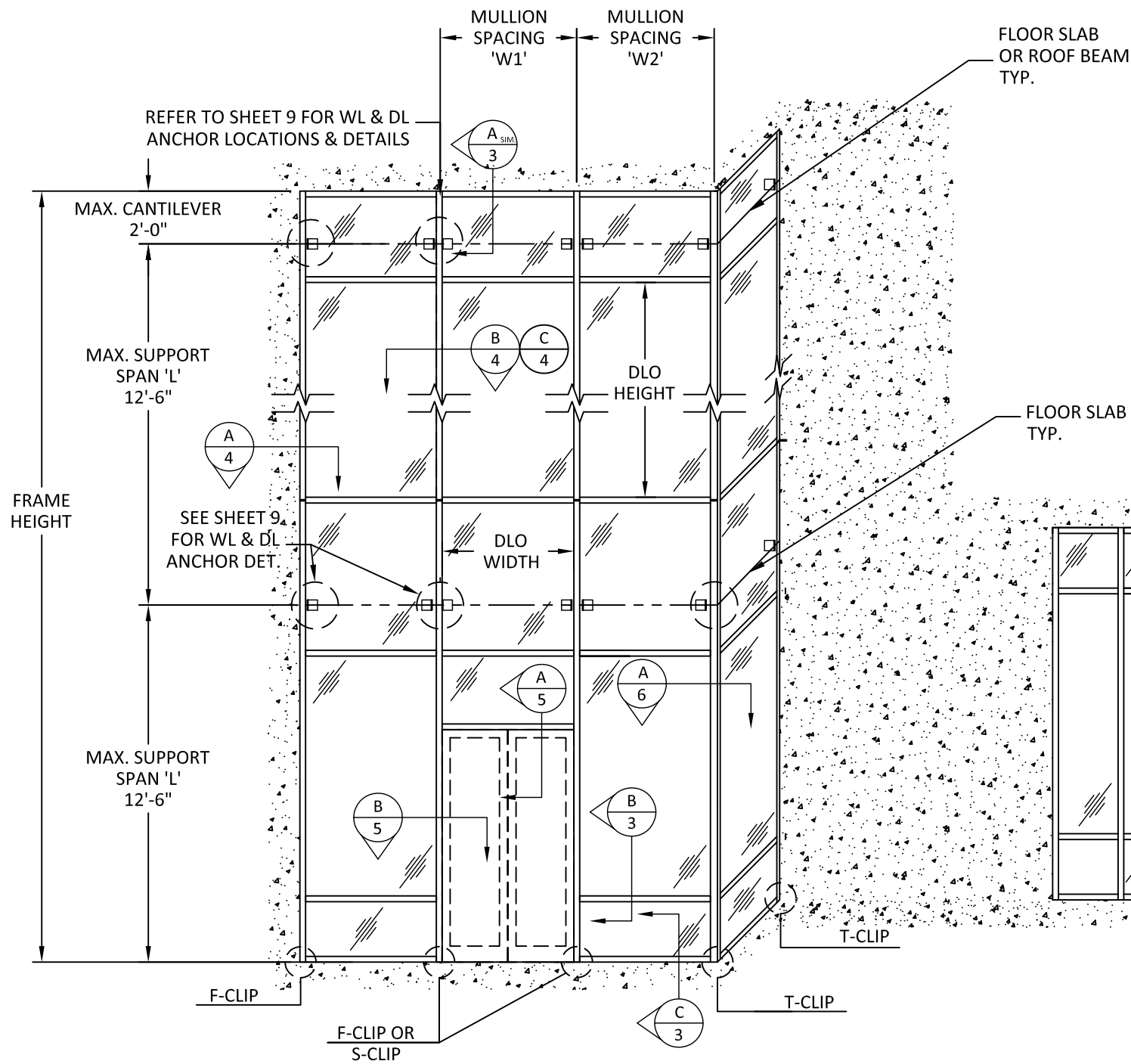
MISSILE IMPACT RATING

LARGE & SMALL MISSILE IMPACT

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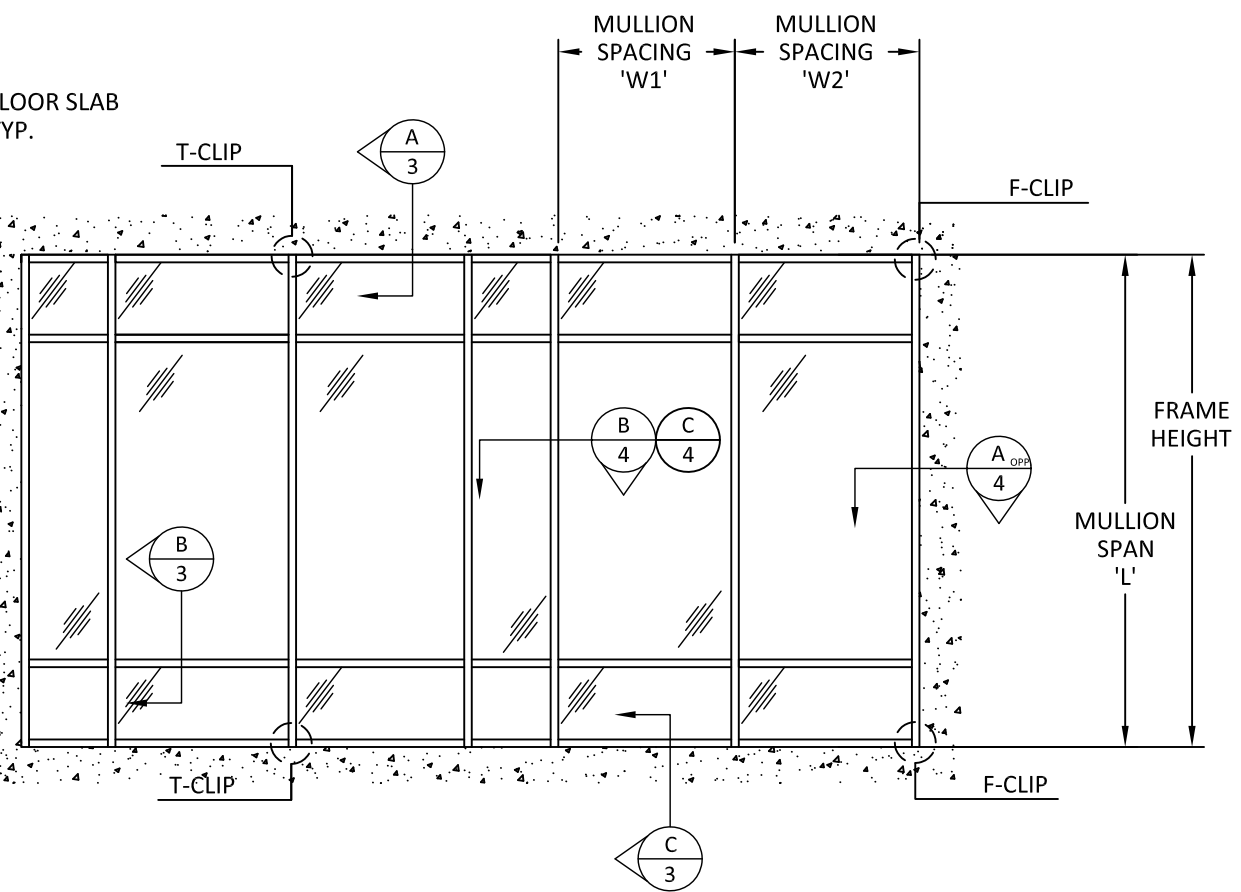
**ELEVATION
TWIN-SPAN TYP.**

FLOOR SLAB
OR ROOF BEAM
TYP.

FLOOR SLAB
TYP.

NOTE:

- 1) CURTAIN WALL SYSTEM MAY BE USED WITH APPROVED DOORS & STOREFRONTS BY YKK AP UNDER SEPARATE APPROVAL
- 2) ELEVATION SHOWN IS FOR DIAGRAMMATIC PURPOSES ONLY. VARIOUS CONFIGURATIONS ARE POSSIBLE USING THIS APPROVAL AND DESIGN PRESSURE CHARTS WITHIN INCLUDING SINGLE SPAN CW WITH IS & OS CORNERS.
- 3) REFER TO SHEETS 11-16 FOR F, T, & S CLIP ANCHOR DETAILS, REQUIREMENTS, AND CAPACITIES.
- 4) REFER TO SHEETS 22 & 23 FOR ALTERNATE GEOMETRY OF CURTAIN WALL & ASSOCIATED CONNECTIONS & ANCHORAGE DETAILS.



**ELEVATION
SINGLE-SPAN TYP.**



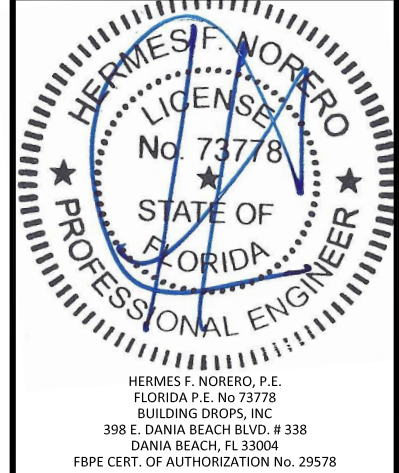
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TITLE: YHC 300 OG & SSG CURTAIN WALL SYSTEM (HVHZ) (IMPACT) ELEVATIONS

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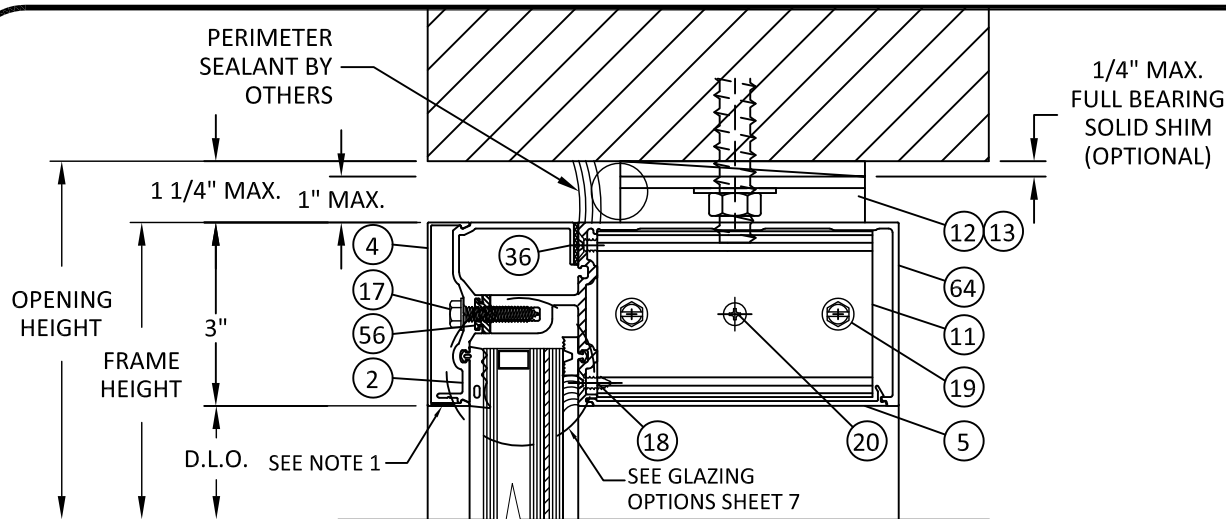
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DWG. #: YKK039

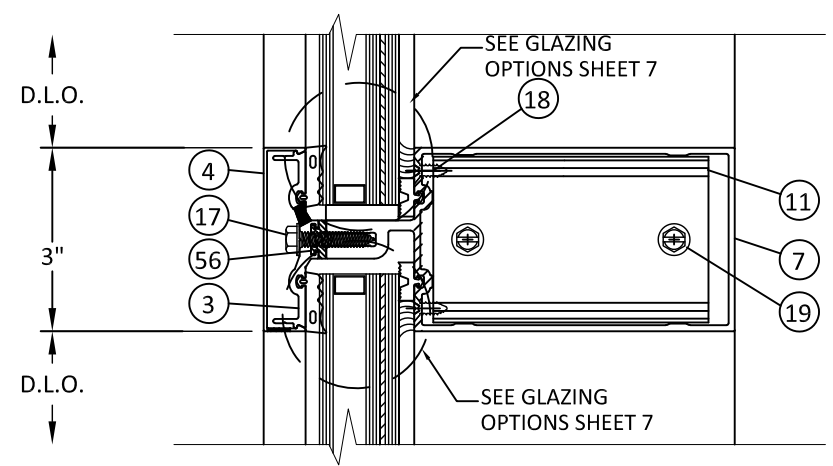
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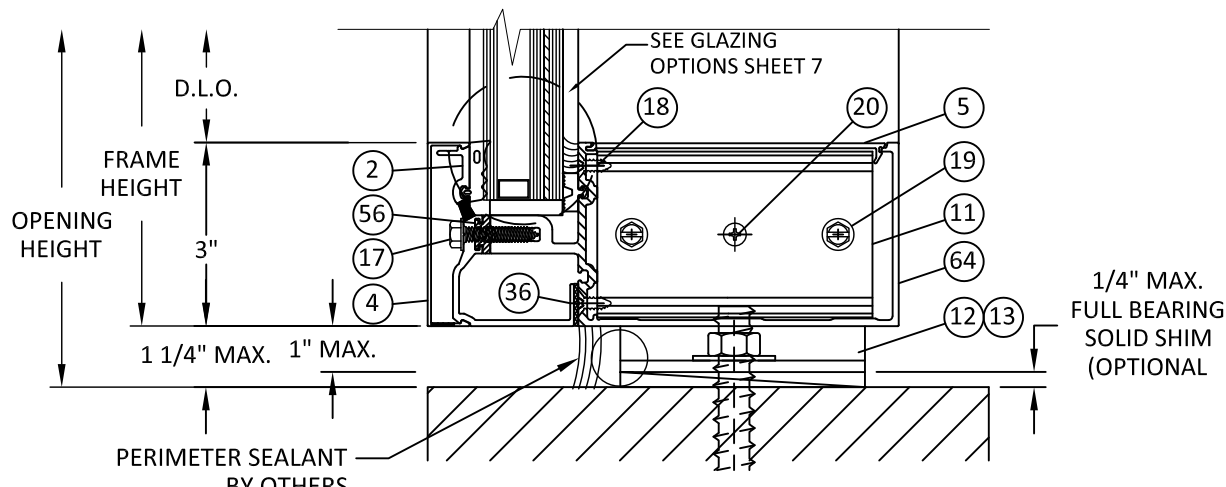
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A
3
VERTICAL SECTION
HEAD



B
3
VERTICAL SECTION
HORIZONTAL MULLION
STANDARD



C
3
VERTICAL SECTION
SILL

- HORIZONTAL MEMBER NOTES:**
1. PRESSURE PLATES (ITEMS #2 & 3) SHALL UTILIZE THREE (3) 5/16" DIA. WEEP HOLES, 3" FROM EA. END & ONE AT CENTER.
 2. COVER CAPS (ITEM #4) SHALL UTILIZE TWO (2) 5/16" DIA. WEEP HOLES, AT 1/3 SPAN LENGTH FROM ENDS.
 3. REFER TO F, T, & S INSTALLATION LAYOUTS & DETAILS FOR ANCHOR REQUIREMENTS AND CAPACITY, SHEETS 11 - 16.



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TITLE:

YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVBZ) (IMPACT)
VERTICAL SECTIONS

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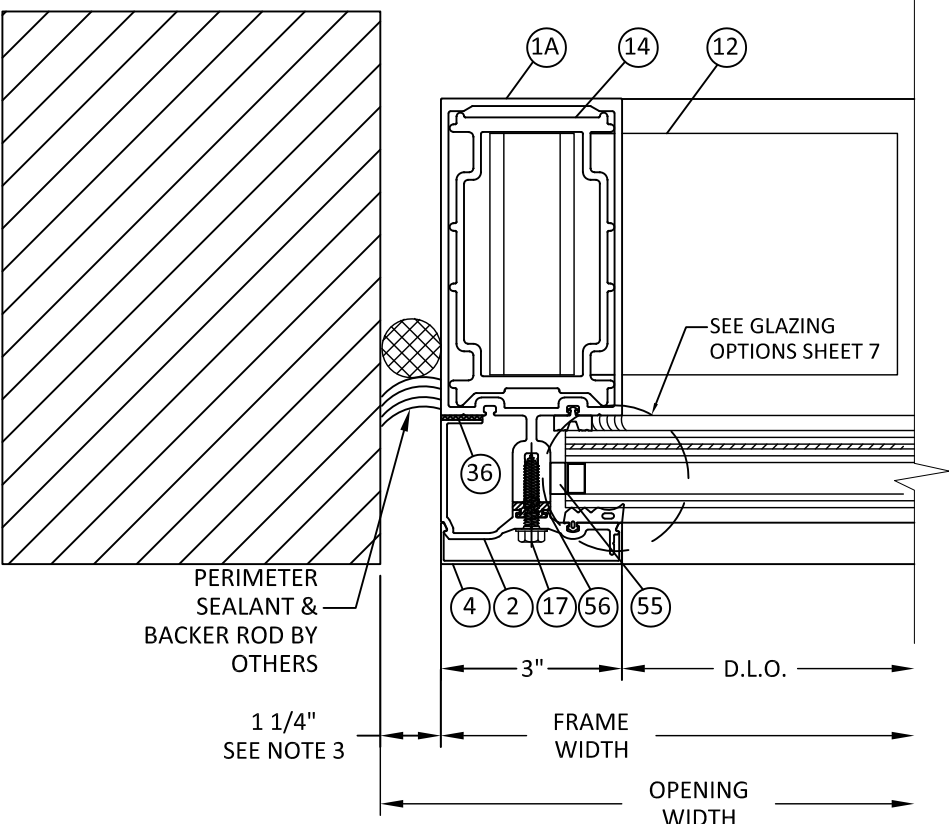
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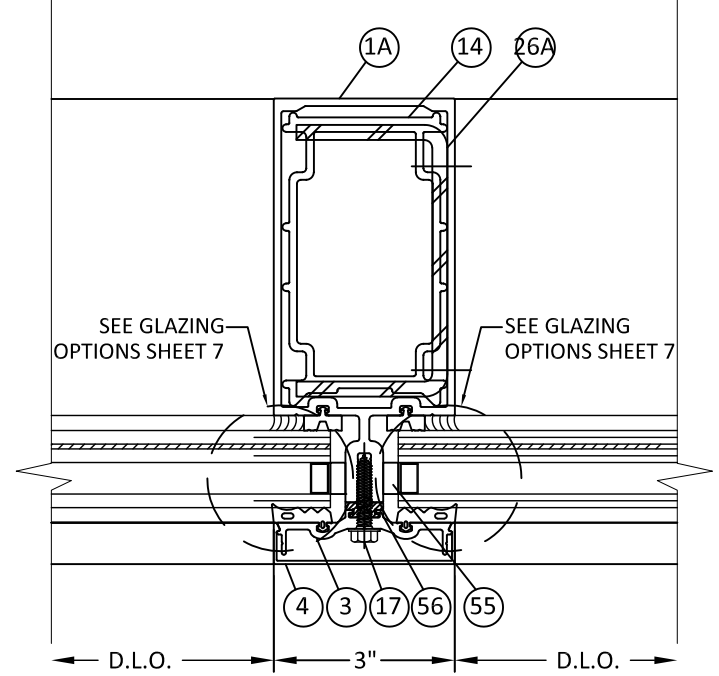
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SHEET:	3		

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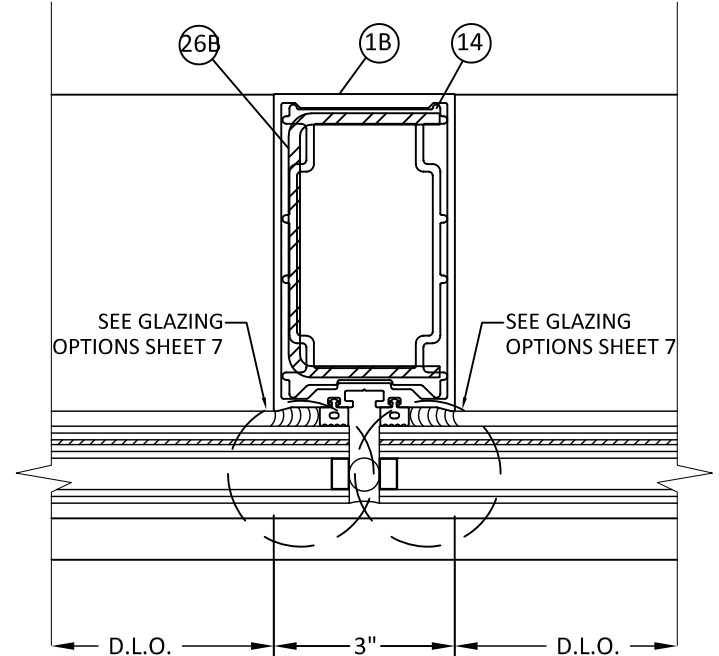
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A
4 **HORIZONTAL SECTION**
YHC 300 OG - JAMB



B
4 **HORIZONTAL SECTION**
YHC 300 OG - VERTICAL MULLION
STEEL REINFORCED



C
4 **HORIZONTAL SECTION**
YHC 300 SSG - VERTICAL MULLION
STEEL REINFORCED

- VERTICAL MEMBER NOTES:
1. ANCHOR SLEEVE (ITEM #14) SHALL BE UTILIZED IN MINIMUM 3" LENGTHS AT TOP & BOTTOM OF VERTICAL MEMBERS WHERE F, T, AND/OR S ANCHORS ARE USED.
 2. REFER TO F, T, & S INSTALLATION LAYOUTS & DETAILS FOR ANCHOR REQUIREMENTS AND CAPACITY, SHEETS 11 - 16.
 3. JOINT AT JAMBS IS NON-STRUCTURAL AND SHALL BE SUFFICIENT TO ALLOW PROPER WEATHERPROOFING. LARGER GAP SPACE FOR SEALING JOINT MAY BE UTILIZED SUCH THAT EVIDENCE IS SUBMITTED IN ACCORDANCE WITH SEALANT PRODUCT MANUFACTURER'S GUIDELINES & RECOMMENDATION AND SHALL BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.



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CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)

HORIZONTAL SECTIONS

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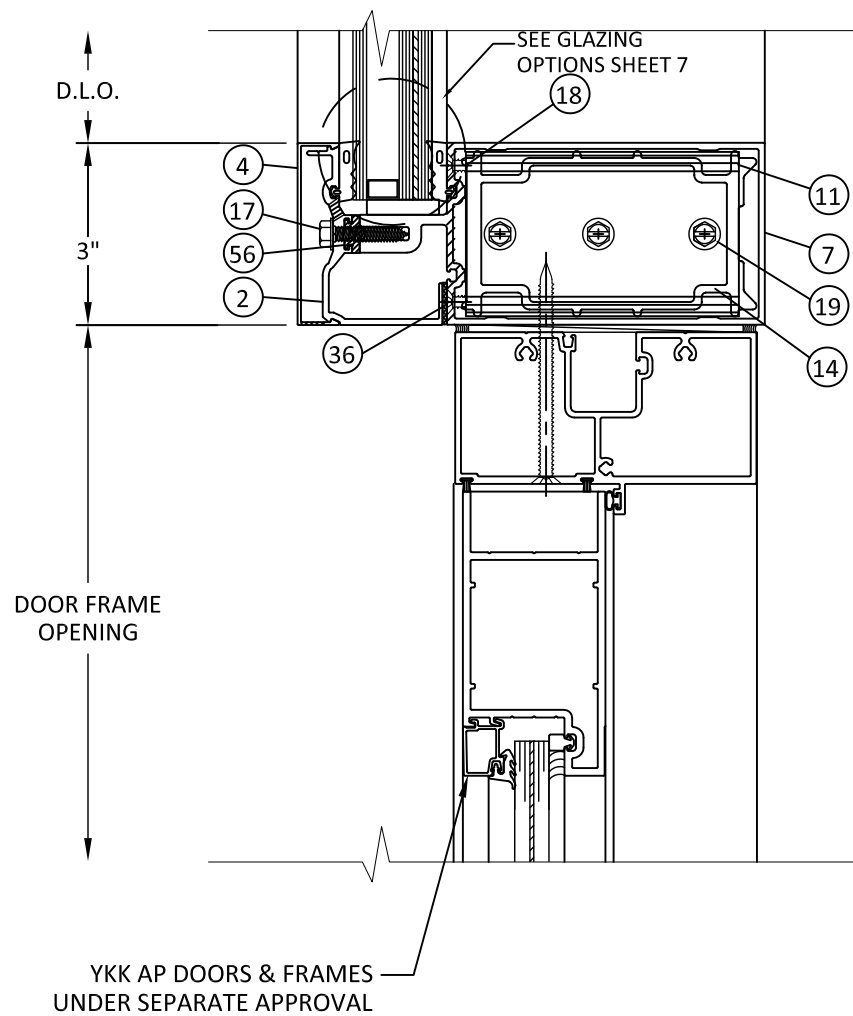
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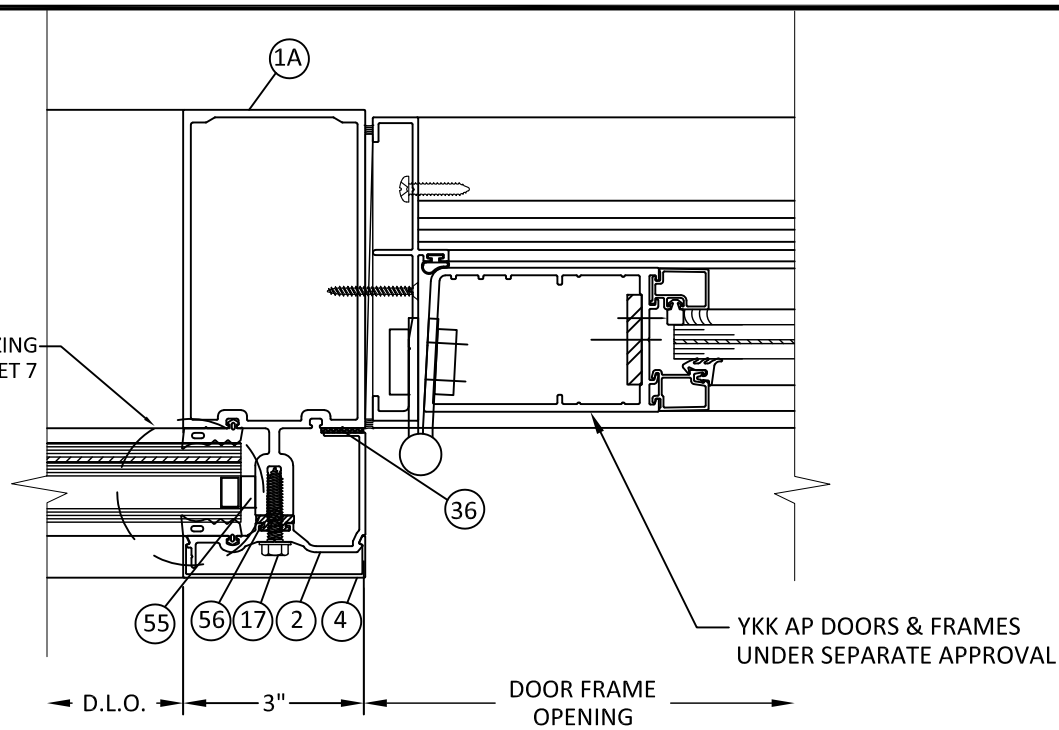


A
5 **VERTICAL SECTION**
TRANSOM
AT DOOR

VERTICAL MEMBER NOTES:

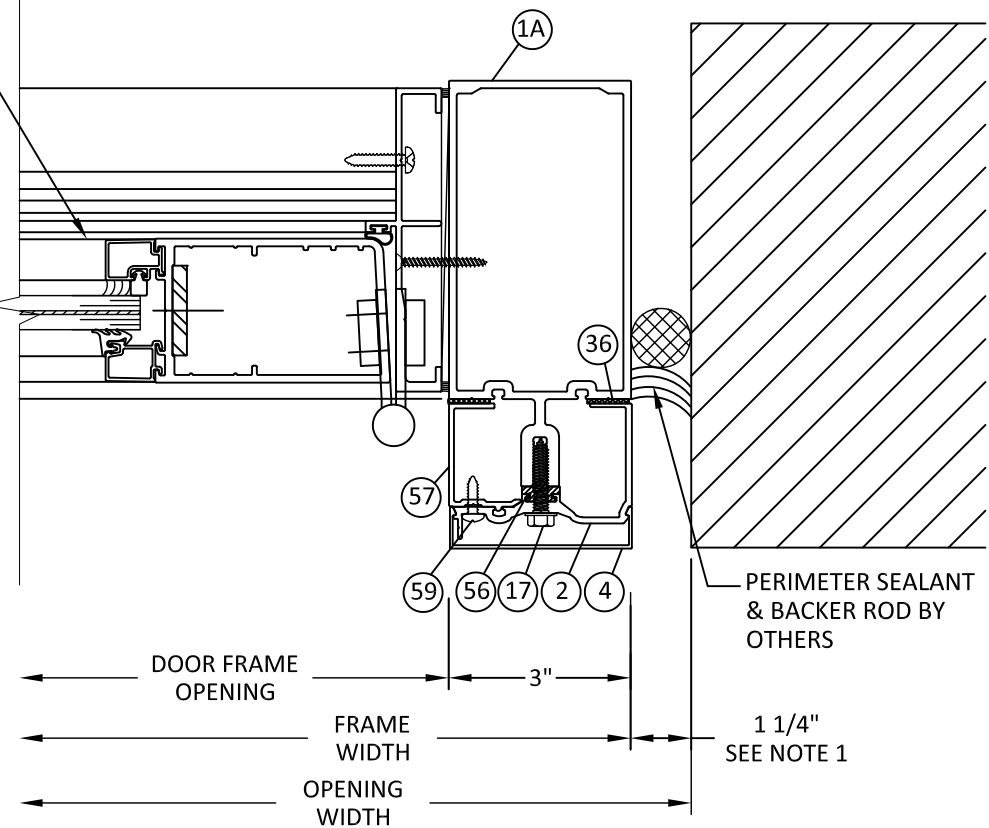
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SEE GLAZING
OPTIONS SHEET 7



B
5 **HORIZONTAL SECTION**
VERTICAL MULLION
DOOR JAMB

YKK AP DOORS & FRAMES
UNDER SEPARATE APPROVAL



C
5 **HORIZONTAL SECTION**
JAMB
DOOR JAMB



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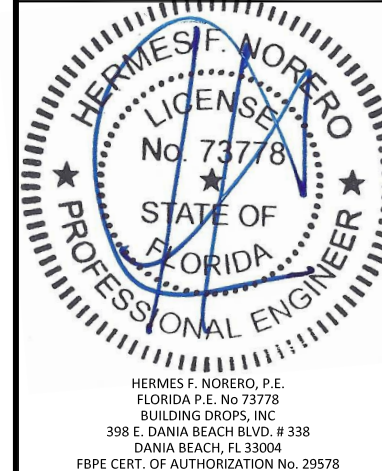
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CW-DOOR DETAILS

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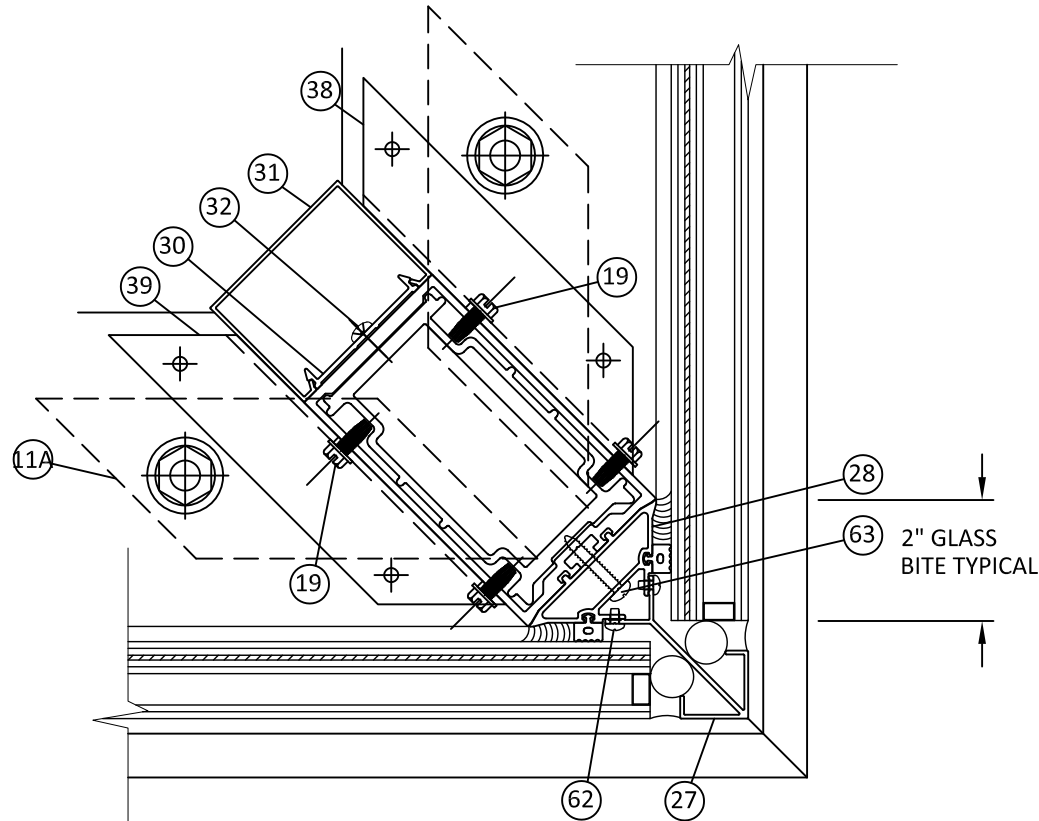
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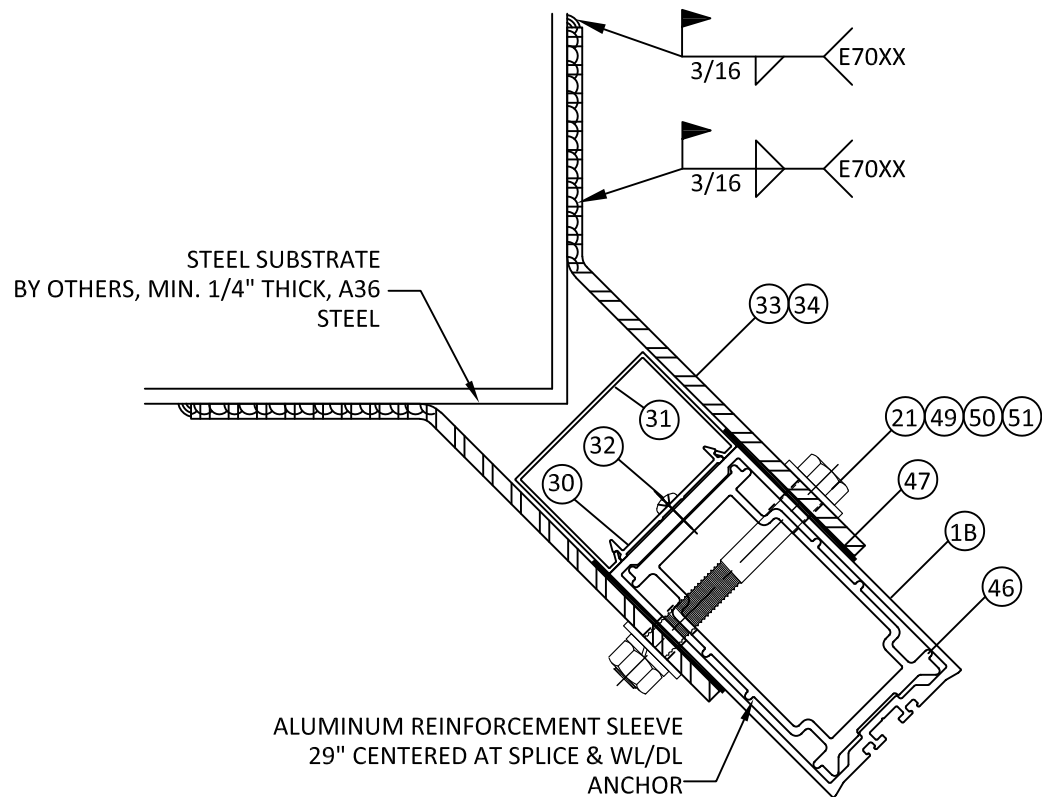
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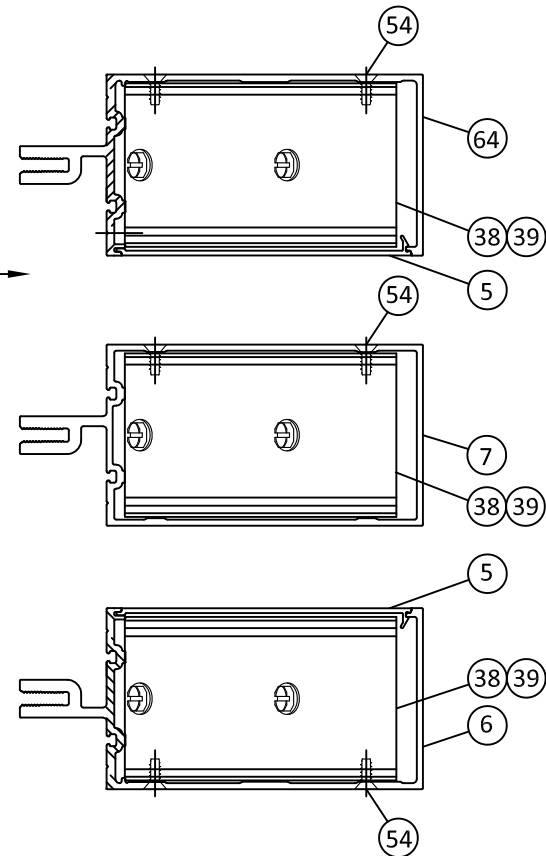


A
6 **HORIZONTAL SECTION**
OUTSIDE CORNER TYPICAL



B
6 **HORIZONTAL SECTION**
OUTSIDE CORNER WL ANCHOR

SEE ALTERNATE SHEAR BLOCK
ASSEMBLY DETAILS FOR
STANDARD OS CORNER
CONSTRUCTION



**ATTACHMENT OF HORIZONTALS AT 90
DEGREE OUTSIDE CORNER**

WL ANCHOR CAPACITY		
MAX. SPAN 'L'	MAX. TRIB. WIDTH 'W'	MAX. DESIGN PRESSURE
150"	55"	+/- 70 PSF



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OUTSIDE CORNER DETAILS

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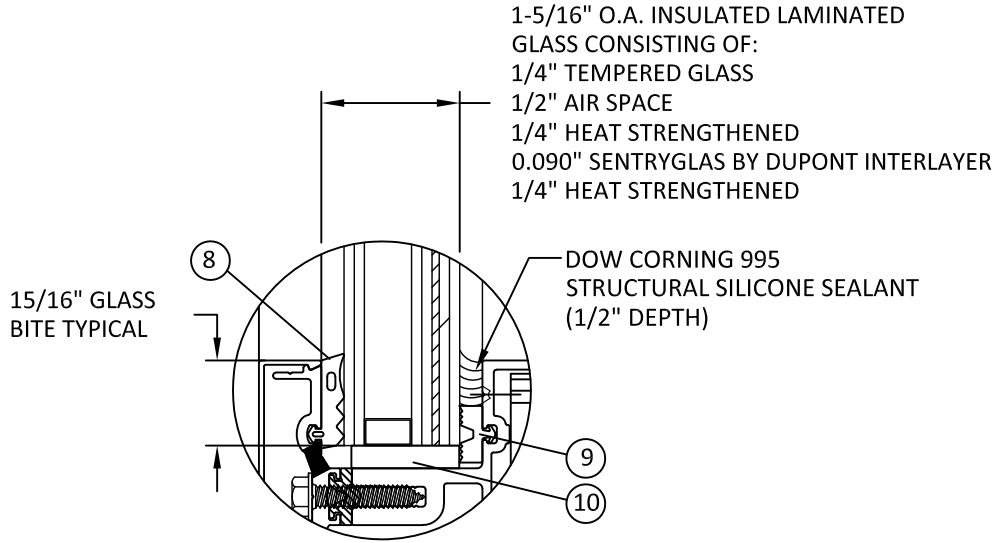
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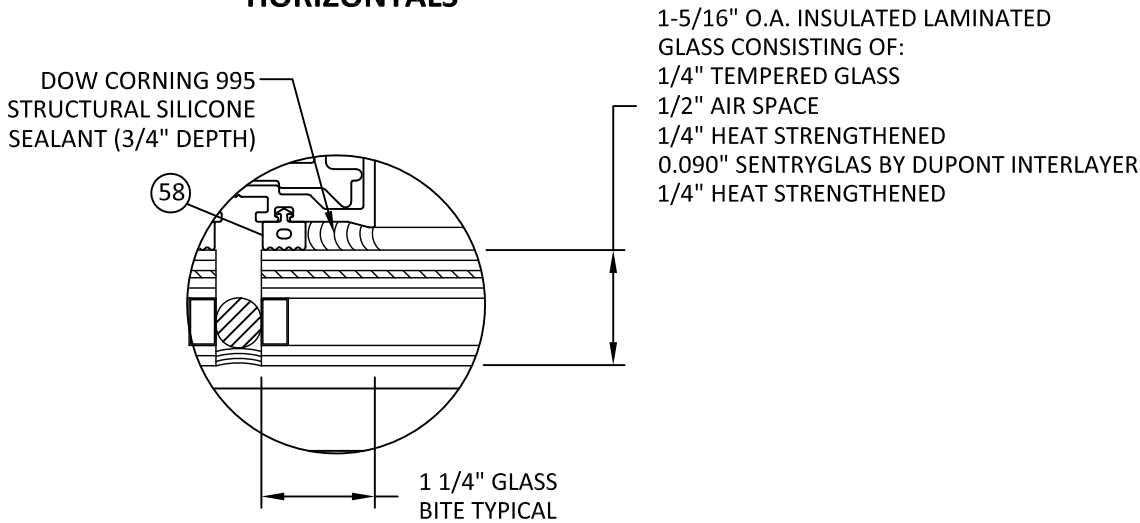
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SHEET:

6



GLAZING OPTION A
TYP. FOR JAMBS, OG
VERTICAL MULLIONS, &
HORIZONTALS



GLAZING OPTION A
TYP. FOR SSG VERTICAL
MULLIONS

GLASS TABLE NOTES:

1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300 (3 SEC. GUSTS).
2. GLASS CAPACITIES ARE LIMITED BY THE RESULTS OF COMPARATIVE ANALYSIS IN ACCORDANCE WITH CHAPTER 17 OF THE CURRENT FBC.
3. WHERE REQUIRED, TEMPERED GLASS IS REQUIRED TO BE USED TO COMPLY WITH SAFETY GLAZING REQUIREMENTS OUTLINED IN CHAPTER 24 OF THE CURRENT FBC.
4. ALL GLASS LITES THAT EXCEED 36" IN WIDTH SHALL USE APPROVED SETTING BLOCKS PER CHAPTER 24 OF THE CURRENT FBC.
5. REFER TO FIGURE 1 FOR ILLUSTRATION OF DAYLIGHT OPENING DIMENSIONS.

GLASS CAPACITY CHARTS

DAYLIGHT OPENING		GLASS TYPE DESIGN PRESSURES (PSF)	
MAX. 'A' (IN.)	MAX. 'B' (IN.)	A	
		+	-
30	129	90.0	90.0
36	72	88.0	88.0
36	84	84.6	84.6
36	96	81.8	81.8
36	108	79.7	79.7
36	120	78.2	78.2
36	132	76.9	76.9
36	144	75.9	75.9
42	72	75.5	75.5
42	84	75.5	75.5
42	96	72.9	72.9
42	108	70.7	70.7
42	120	69.0	69.0
42	132	67.7	67.7
42	144	66.7	66.7
48	72	66.0	66.0
48	84	66.0	66.0
48	96	66.0	66.0
48	108	64.1	64.1
48	120	62.3	62.3
48	132	60.9	60.9
51	102	62.1	62.1
51	106	61.8	61.8
51	112	60.7	60.7
51	116	60.1	60.1
51	120	59.6	59.6
51	124	59.0	59.0
51	129	58.5	58.5

DAYLIGHT OPENING		GLASS TYPE DESIGN PRESSURES (PSF)	
MAX. 'A' (IN.)	MAX. 'B' (IN.)	A	
		+	-
57	60	55.6	55.6
57	66	55.6	55.6
57	72	55.6	55.6
57	78	55.6	55.6
57	84	55.6	55.6
57	90	55.6	55.6
57	96	55.6	55.6
57	102	55.6	55.6
57	108	55.6	55.6
57	114	55.6	55.6
57	117	55.5	55.5
63	60	55.5	55.5
63	66	50.3	50.3
63	72	50.3	50.3
63	78	50.3	50.3
63	84	50.3	50.3
63	90	50.3	50.3
63	96	50.3	50.3
63	102	50.3	50.3
69	60	60.7	60.7
69	66	50.2	50.2
69	72	45.9	45.9
69	78	45.9	45.9
74	60	54.4	54.4
74	66	53.8	53.8
74	72	45.2	45.2
74	90	42.8	42.8

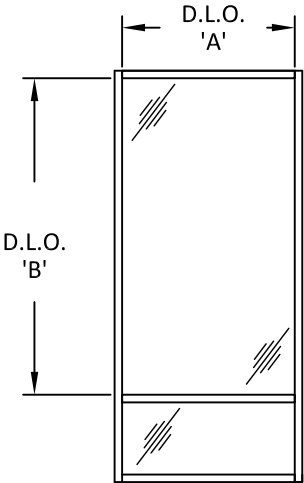


FIGURE 1



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

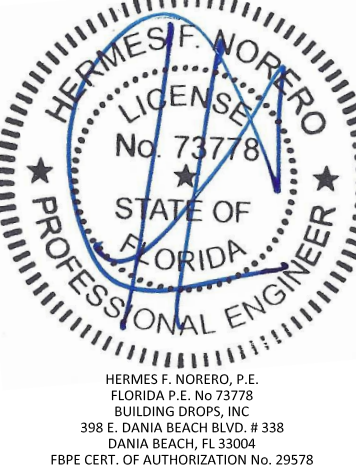
TITLE:
YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)
GLASS CAPACITY CHARTS

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

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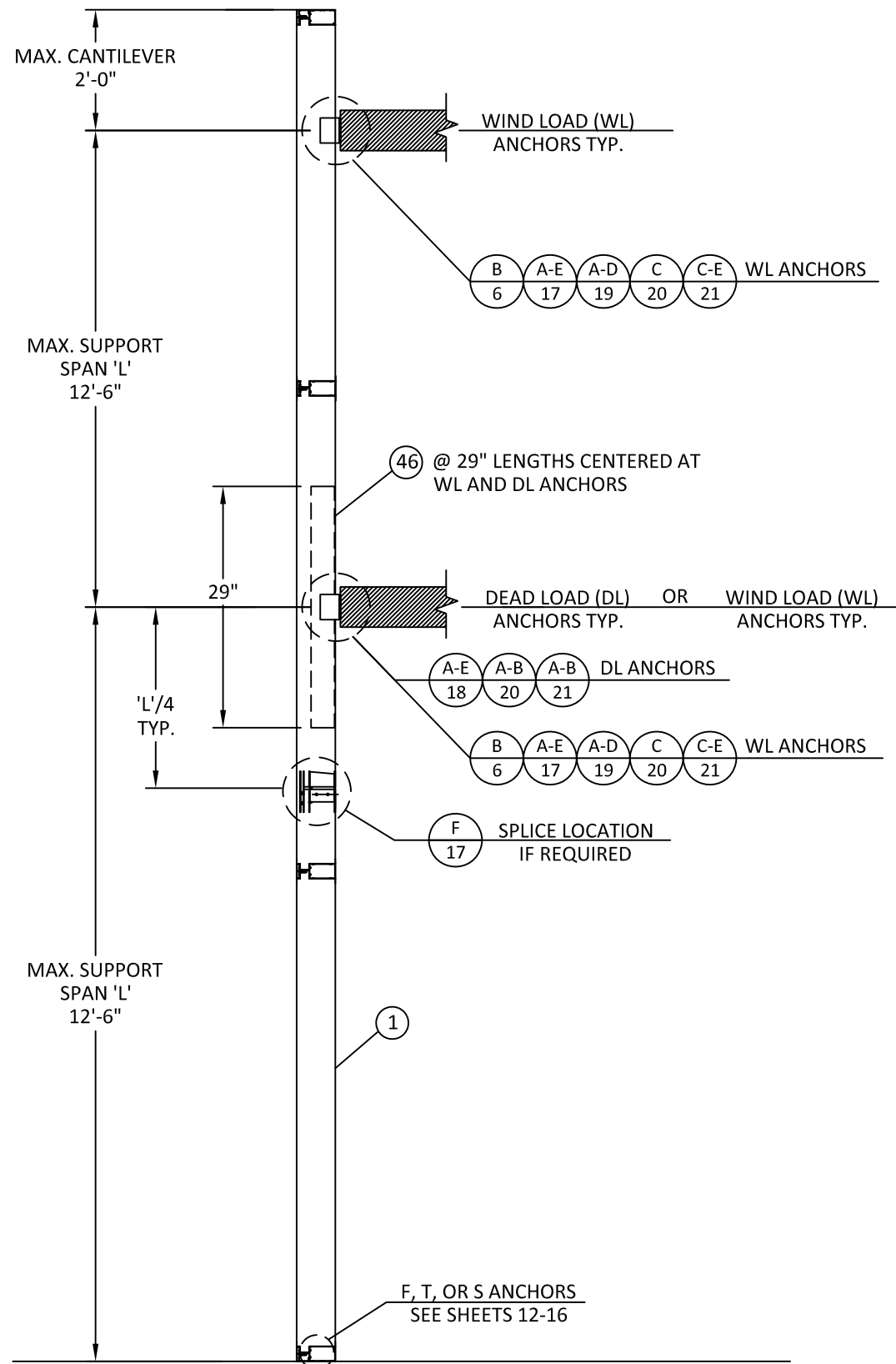
FL #:	FL17111
DATE:	08.18.17
DWG. BY:	AR/RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK039
SHEET:	

SINGLE SPAN VERTICAL MULLION CAPACITIES

SINGLE SPAN DESIGN PRESSURE TABLE (+/- PSF)			
MAX. SPAN 'L' (IN.)	MAX. TRIB. WIDTH 'W' (IN.)	M1	M2
84	54	90.0	90.0
	60	86.1	90.0
	66	78.3	90.0
	74	69.8	90.0
90	48	90.0	90.0
	54	89.3	90.0
	60	80.4	90.0
	66	73.1	90.0
	74	65.2	90.0
96	48	90.0	90.0
	54	83.8	90.0
	60	75.4	90.0
	66	68.5	90.0
	74	61.1	90.0
100.5	48	90.0	90.0
	54	80.0	90.0
	60	72.0	90.0
	66	65.5	90.0
	74	58.4	87.1
120	24	-	90.0
	30	-	90.0
	36	-	90.0
	42	-	90.0
	48	-	90.0
	54	-	90.0
	60	-	90.0
	66	-	81.8
	74	-	73.0
126	24	-	90.0
	30	-	90.0
	36	-	90.0
	42	-	90.0
	48	-	90.0
	54	-	90.0
	60	-	85.7
	66	-	77.9
	74	-	69.5
	24	-	90.0
	30	-	90.0
	36	-	90.0
	42	-	90.0
	48	-	90.0
	54	-	90.0
	60	-	85.7
	66	-	77.9
	74	-	69.5

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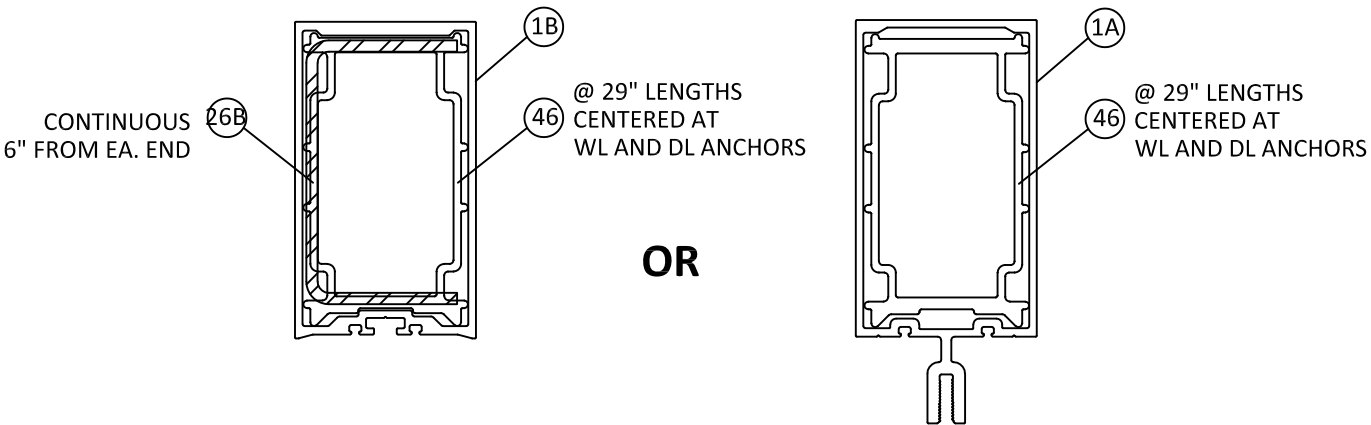
VERTICAL SECTION
MULTI-SPAN TYP.

MULTI SPAN VERTICAL MULLION CAPACITIES

TWIN SPAN DESIGN PRESSURE TABLE (+/- PSF)		
MAX. SPAN 'L' (IN.)	MAX. TRIB. WIDTH 'W' (IN.)	M3
150	74	70

- 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 SHEETS 4, 5 & 6.
 2. TABULATED DESIGN PRESSURE VALUES ARE BASED ON LIMITATIONS OF DEFLECTION, FIBERSTRESS, & END REACTION PER MULLION SPAN ('L') 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, & S CLIP ANCHORS, PLEASE REFER TO SHEET 11-16 FOR ANCHOR SELECTION, SUBSTRATE REQUIREMENTS, AND FURTHER LIMITATIONS OF USE.
 5. FOR WL & DL ANCHORS, PLEASE REFER TO SHEETS 6, 17, 18, 19, 20 & 21 FOR APPLIABLE DETAILS
 6. SPLICES SHALL BE LOCATED AS SPECIFIED HEREIN (ABOVE OR BELOW WL OR DL ANCHOR) OR AS DESIGNED BY ENGINEER OF RECORD.
 7. REFER TO SHEET 2, MULTI SPAN ELEVATION, FOR ILLUSTRATION OF DETERMINING MAX. TRIBUTARY WIDTH 'W'.

MULLION SPACING OR BAY WIDTH, 'W'	$W = \frac{W1 + W2}{2}$
--------------------------------------	-------------------------



M3
STANDARD VERTICAL MULLION W/
REINFORCEMENT AT DL & WL ANCHORS



YKK AP America, Inc.
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DUBLIN, GEORGIA 31021
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TITLE:
YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)
MULTI SPAN VERTICAL MULLION
CAPACITY

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

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FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL17111

DATE: **08.18.17**

DWG. BY: **AR/RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK039**

SHEET:
9

HORIZONTAL MULLION CAPACITY

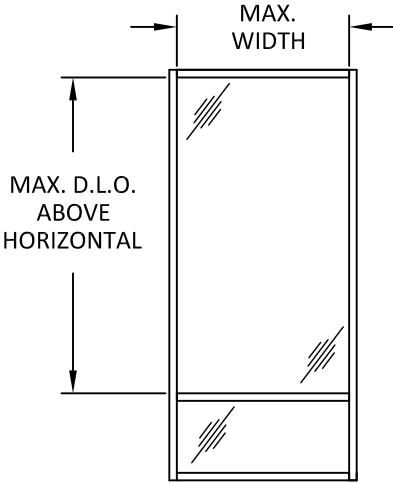
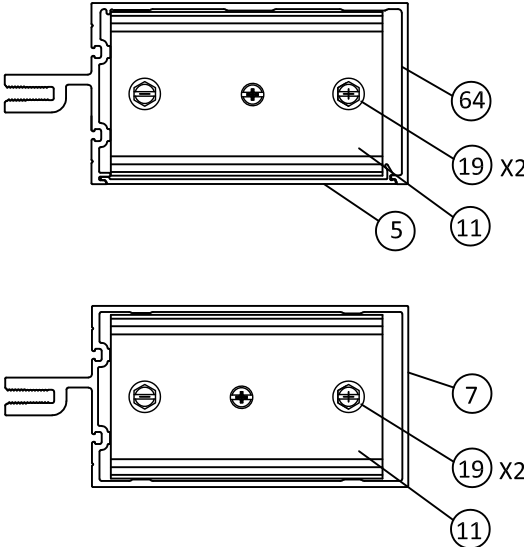


FIG. 1

STANDARD DUTY HORIZONTAL MULLION WL & DL COMBINATION		
MAX. WIDTH (IN.)	MAX. D.L.O. HEIGHT ABOVE HORIZONTAL (IN.)	DESIGN PRESSURE (+/- PSF)
74	96	70
60	144	70

- STANDARD DUTY HORIZONTAL MULLION NOTES:
1. CHART IS BASED ON TWO SETTING BLOCKS (E2-0611) PLACED AT 1/4 SPAN LENGTH
 2. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.
 3. MAY BE USED AS TYPICAL HORIZONTAL MULLION OR TRANSOM ABOVE SINGLE DOOR ASSEMBLIES ONLY.



STANDARD DUTY HORIZONTAL MULLIONS

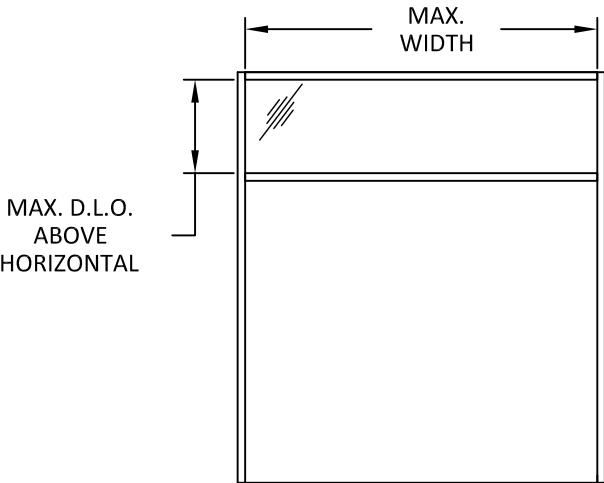
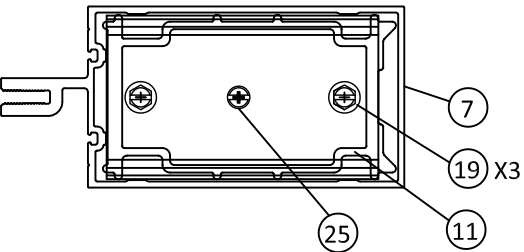


FIG. 2

REINFORCED HORIZONTAL MULLION WL & DL COMBINATION (FOR USE OVER DOOR ASSEMBLIES)		
MAX. WIDTH	MAX. D.L.O. HEIGHT ABOVE HORIZONTAL (IN.)	DESIGN PRESSURE (+/- PSF)
97.25	48	70

- STANDARD DUTY HORIZONTAL MULLION WITH REINFORCING NOTES:
1. CHART IS BASED ON TWO SETTING BLOCKS (E2-0611) PLACED AT 1/4 SPAN LENGTH
 2. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.
 3. MAY BE USED AS TYPICAL HORIZONTAL MULLION OR TRANSOM ABOVE SINGLE OR DOUBLE DOOR ASSEMBLIES, SEE DETAIL A/5.



STANDARD DUTY HORIZONTAL MULLIONS
WITH ALUMINUM REINFORCEMENT



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1229 HWY 441 BYPASS
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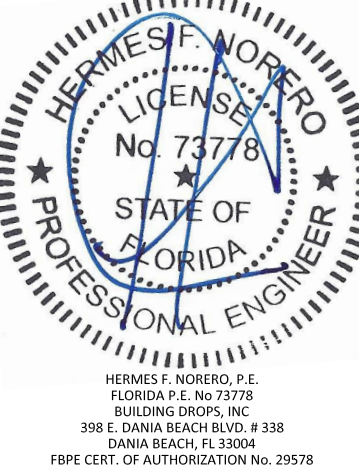
TITLE:
YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)
HORIZONTAL MULLION
CAPACITIES

PREPARED BY:
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398 E. DANIA BEACH BLVD., STE. 338
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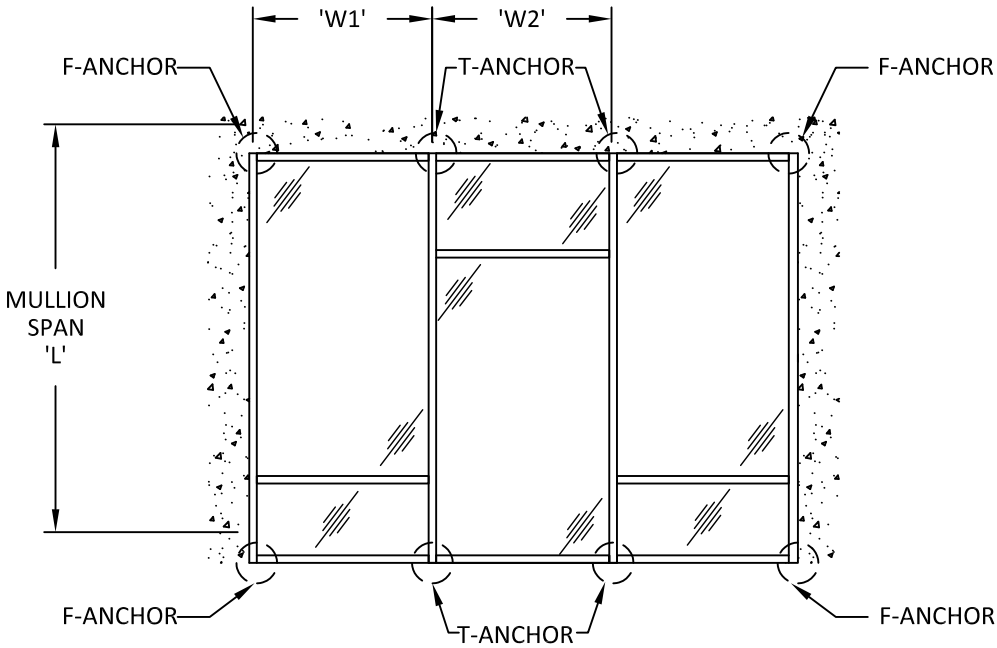
F, T, & S ANCHOR TYPES

TYPE	DIAMETER	ANCHOR TYPE	SUBSTRATE	MINIMUM EDGE DISTANCE	MINIMUM EMBEDMENT	REF. DETAILS
A	1/2"	SIMPSON TITEN HD	MIN. 3000 PSI CONCRETE	3 1/4"	3 1/2"	A/13, B/13
	3/8"	SIMPSON TITEN HD	MIN. 3000 PSI CONCRETE	3 1/4"	3"	A/13, B/13
	1/2"	POWERS WEDGE-BOLT +	MIN. 3000 PSI CONCRETE	3 1/4"	3 1/2"	A/13, B/13
B	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	A/13, B/13, C/14
C	5/16"	ELCO DRIL-FLEX OR HILTI KWIK-FLEX SELF-DRILLING	MIN. 12 GAUGE STEEL, MIN. Fy = 33KSI	3/4"	MIN. 3 THREADS PENETRATION BEYOND STEEL STRUCTURE	A/14, B/14
D	3/8"	POWERS WEDGE-BOLT +	MIN. 3000 PSI CONCRETE	3 1/4"	2 1/8"	A/13, B/13
E	1/2"	SIMPSON TITEN HD	MIN. 3000 PSI CONCRETE	4 1/4"	3 1/2"	C/14
	1/2"	POWERS WEDGE-BOLT +	MIN. 3000 PSI CONCRETE	4 1/4"	3 1/2"	C/14
F	#14	WOOD SCREW	WOOD (MIN. S.G. = 0.55)	1"	1 1/4"	A/11, C/11
	1/4"	GR. 5 SM SCREW				
	1/4"	ELCO ULTRA-CON				
G	#14	WOOD SCREW	WOOD (MIN. S.G. = 0.55)	1"	1 1/4"	*A/11, *C/11
	1/4"	GR. 5 SM SCREW				
	1/4"	ELCO ULTRA-CON				

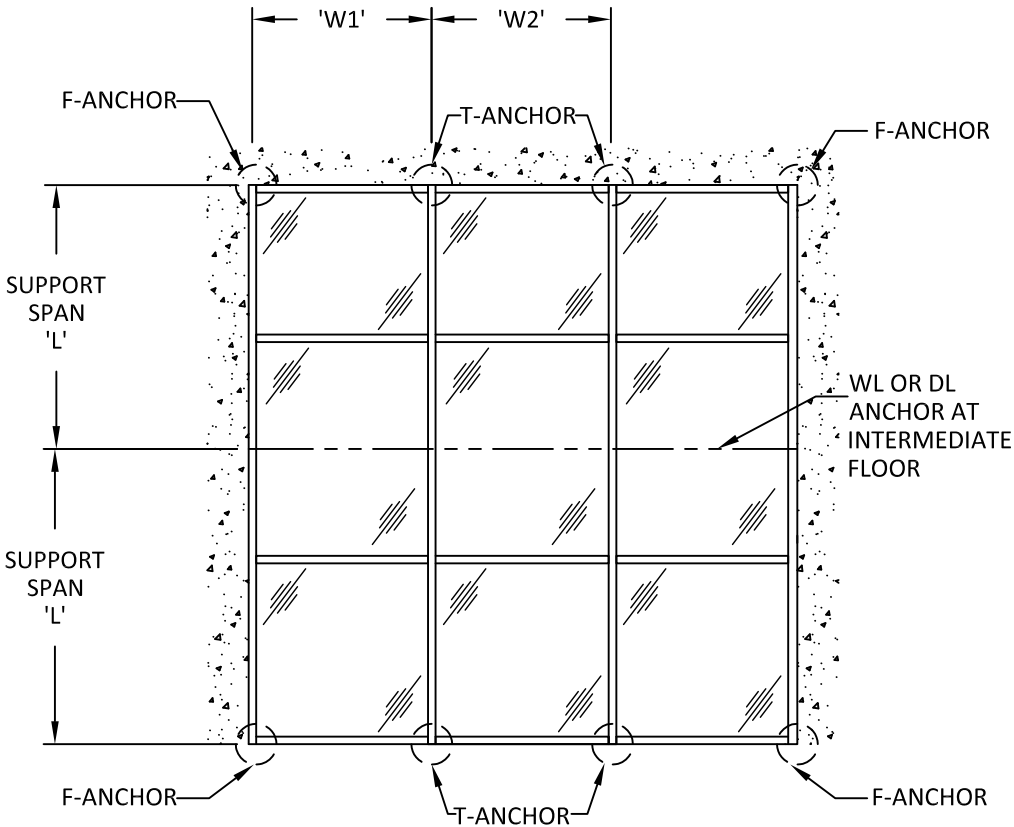
- NOTE:
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - REFER TO ANCHOR LAYOUTS AT RIGHT FOR LOCATIONS AND DETERMINING MAX. LENGTHS (L) AND TRIBUTARY WIDTHS (W).
 - FOR SITE CONDITIONS NOT SHOWN IN THE DETAILS HEREIN OR EDGE DISTANCE REQUIREMENTS TO BE MODIFIED, ANCHORS MAY BE ENGINEERED ON A SITE SPECIFIC BASIS.
 - REFER TO SHEETS 11, 13 & 14 FOR ANCHOR CONFIGURATIONS.
 - REFER TO SHEETS 15 & 16 FOR T, F, & S ANCHOR TYPE CAPACITIES.

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 SHEET 2 FOR ILLUSTRATION OF DETERMINING MAX. TRIB. WIDTH



SINGLE SPAN ANCHOR LAYOUT



MULTI SPAN ANCHOR LAYOUT - TYP.



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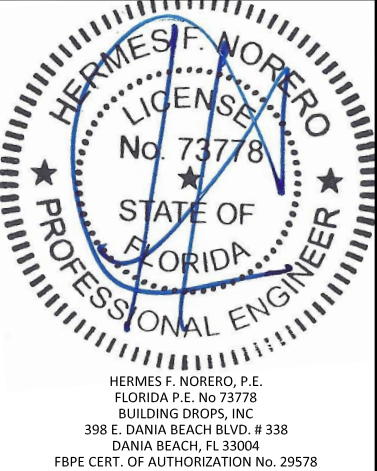
TITLE:
YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)
T & F ANCHOR AT WOOD
SUBSTRATES

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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DWG. #:	YKK039
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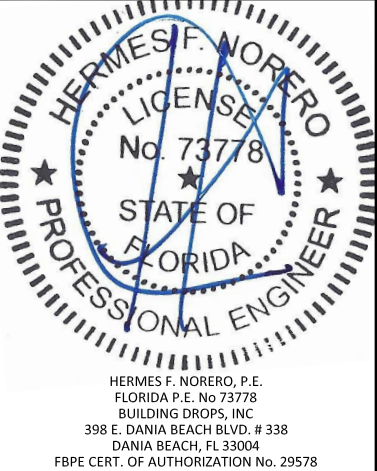
TITLE:
YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)
T, F, & S ANCHOR TYPES,
REQUIREMENTS & DIAGRAMS

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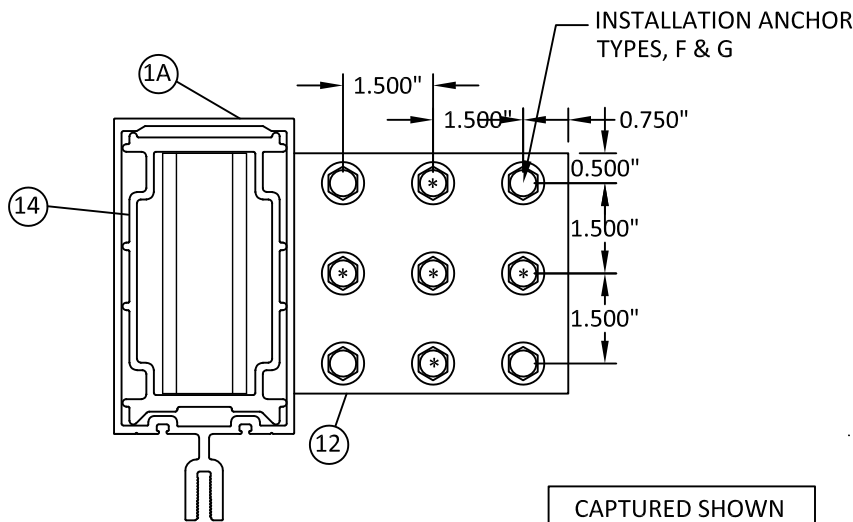
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SCALE: **NTS**

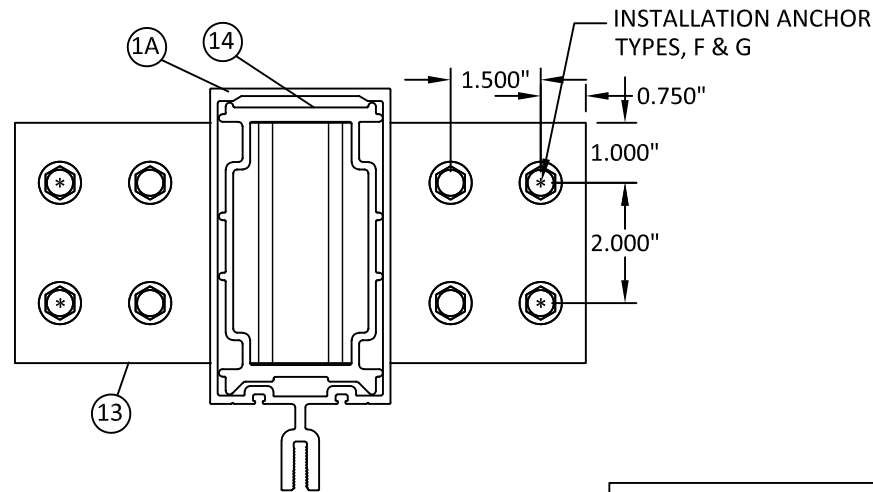
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SHEET:
12



A
12 **HORIZONTAL SECTION**
F-ANCHOR
FOR WOOD SUBSTRATES

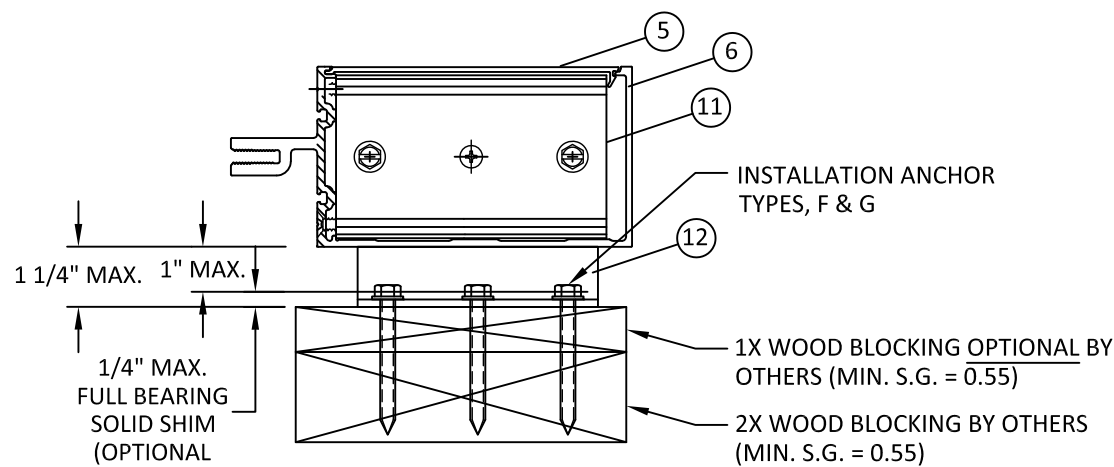
*WHEN ANCHORS MARKED WITH AN ASTERISK ARE NOT USED, THE DETAIL REFERENCE HEREIN BECOMES *A/11



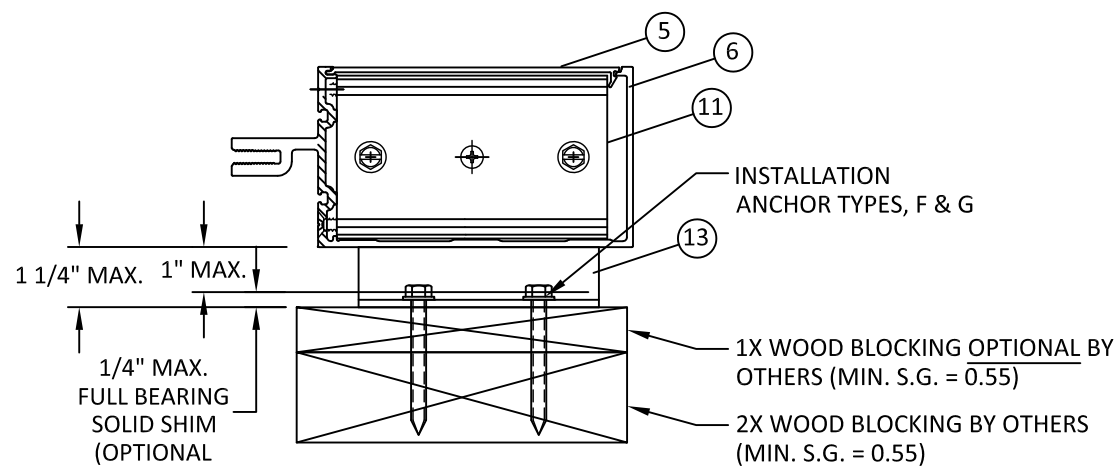
C
12 **VERTICAL SECTION**
T-ANCHOR
FOR WOOD SUBSTRATES

*WHEN ANCHORS MARKED WITH AN ASTERISK ARE NOT USED, THE DETAIL REFERENCE HEREIN BECOMES *C/11

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, SHEET 12.

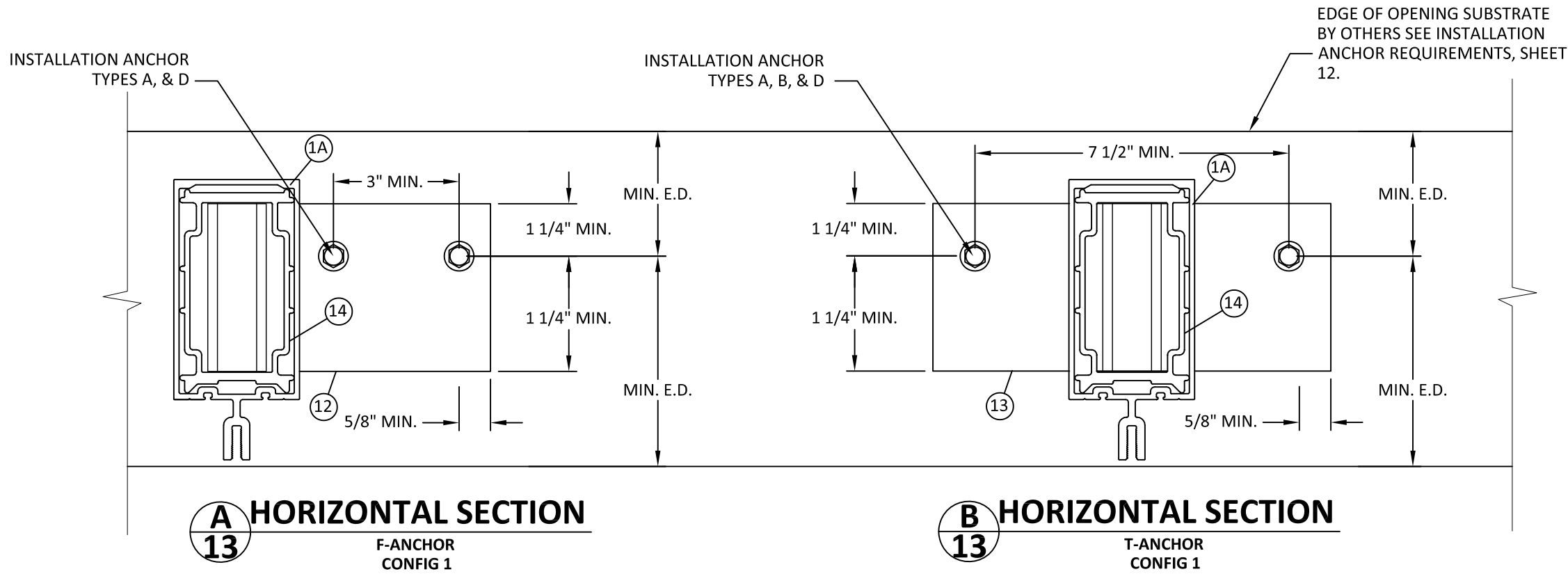


B
12 **VERTICAL SECTION**
F-ANCHOR
FOR WOOD SUBSTRATES



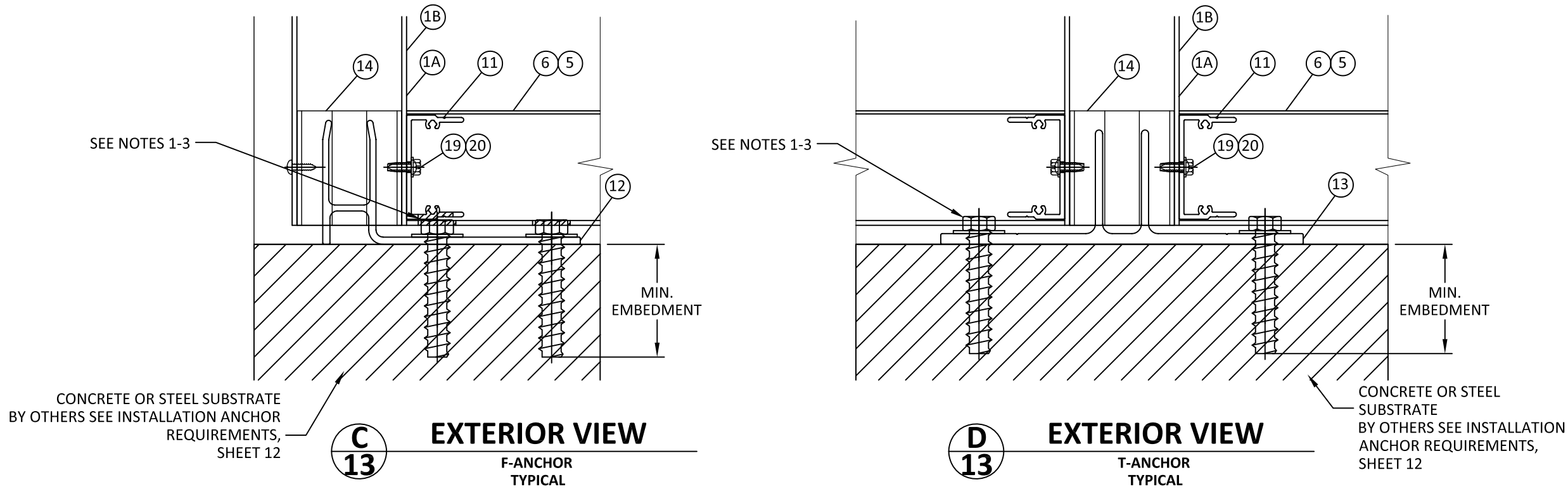
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12 **VERTICAL SECTION**
T-ANCHOR
FOR WOOD SUBSTRATES

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CAPTURED SHOWN
SSG SIMILAR



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

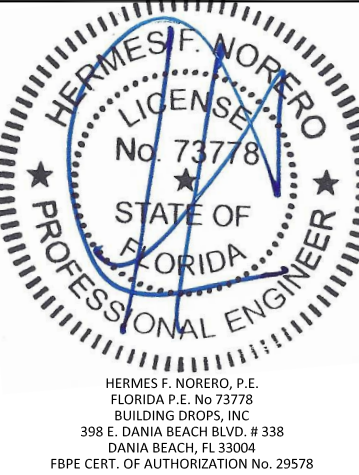
TITLE:
YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)
T & F ANCHOR
CONFIGURATIONS

PREPARED BY:
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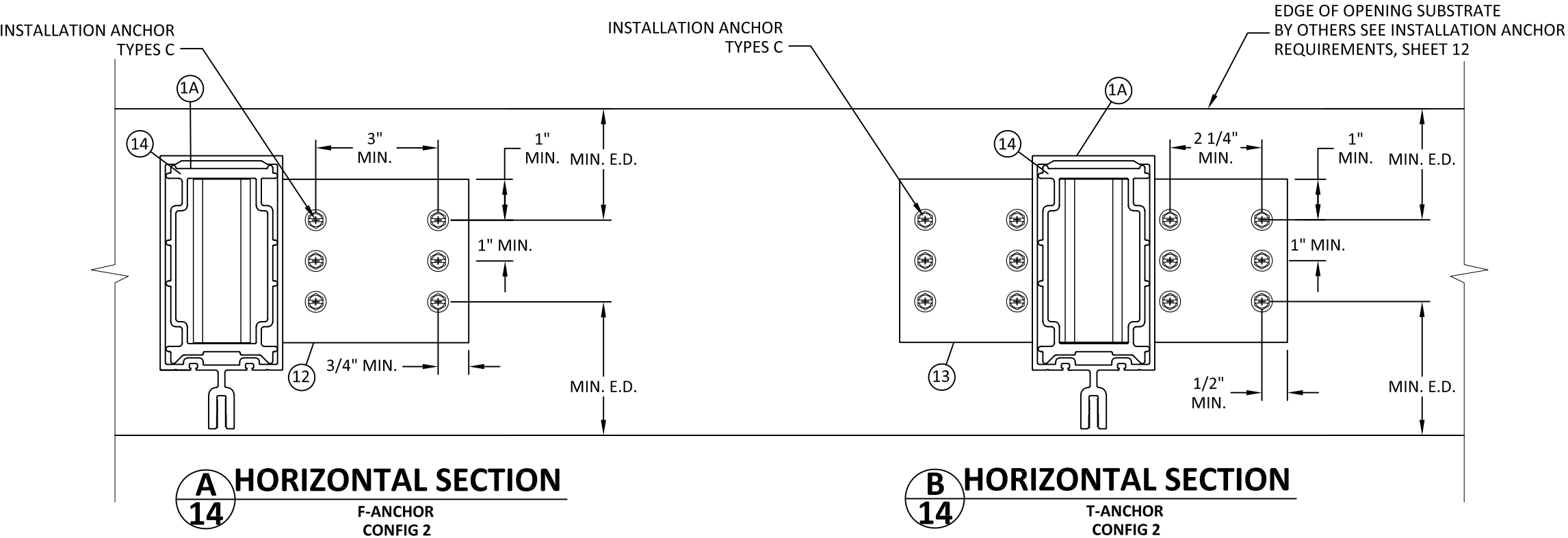
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DWG. #:	YKK039
SHEET:	13

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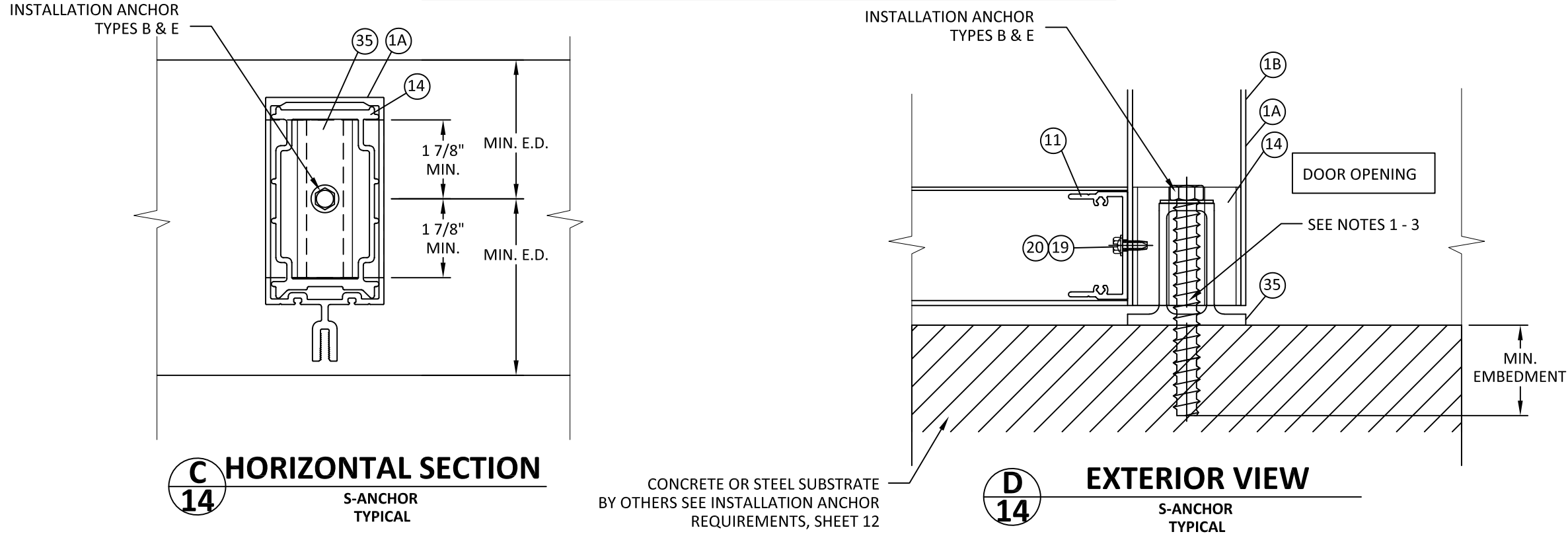
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3. REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE, SHEET 12.

CAPTURED SHOWN SSG SIMILAR



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

TITLE: YHC 300 OG & SSG CURTAIN WALL SYSTEM (HVHZ) (IMPACT) T.F. & S ANCHOR CONFIGURATIONS

PREPARED BY: BUILDING DROPS, INC.
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HERMES F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

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SINGLE SPAN & MULTI SPAN
T & F ANCHOR CAPACITIES

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

TRIBUTARY SIZE		MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)						TRIBUTARY SIZE		MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)					
MAX. SPAN 'L'	MAX. WIDT H 'W'	A	B	C	D	F	G	MAX. SPAN 'L'	MAX. WIDT H 'W'	A	B	C	D	F	G
72	36	90.0	90.0	90.0	90.0	90.0	90.0	114	36	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		42	90.0	90.0	90.0	82.9	90.0	80.7
	48	90.0	90.0	90.0	90.0	90.0	90.0		48	90.0	90.0	90.0	72.5	90.0	70.6
	54	90.0	90.0	90.0	90.0	90.0	90.0		54	90.0	90.0	90.0	64.5	90.0	62.8
	60	90.0	90.0	90.0	90.0	90.0	90.0		60	81.1	81.1	81.1	58.0	81.1	56.5
	66	90.0	90.0	90.0	83.5	90.0	81.3		66	73.7	73.7	73.7	52.7	73.7	51.4
	74	90.0	90.0	90.0	74.5	90.0	72.5		74	65.7	65.7	65.7	47.0	65.7	45.8
78	36	90.0	90.0	90.0	90.0	90.0	90.0	120	36	90.0	90.0	90.0	90.0	90.0	89.4
	42	90.0	90.0	90.0	90.0	90.0	90.0		42	90.0	90.0	90.0	78.7	90.0	76.7
	48	90.0	90.0	90.0	90.0	90.0	90.0		48	90.0	90.0	90.0	68.9	90.0	67.1
	54	90.0	90.0	90.0	90.0	90.0	90.0		54	85.6	85.6	85.6	61.2	85.6	59.6
	60	90.0	90.0	90.0	84.8	90.0	82.6		60	77.0	77.0	77.0	55.1	77.0	53.7
	66	90.0	90.0	90.0	77.1	90.0	75.1		66	70.0	70.0	70.0	50.1	70.0	48.8
	74	90.0	90.0	90.0	68.8	90.0	66.9		74	62.4	62.4	62.4	44.7	62.4	43.5
84	36	90.0	90.0	90.0	90.0	90.0	90.0	126	36	90.0	90.0	90.0	87.5	90.0	85.2
	42	90.0	90.0	90.0	90.0	90.0	90.0		42	90.0	90.0	90.0	75.0	90.0	73.0
	48	90.0	90.0	90.0	90.0	90.0	90.0		48	90.0	90.0	90.0	65.6	90.0	63.9
	54	90.0	90.0	90.0	87.5	90.0	85.2		54	81.5	81.5	81.5	58.3	81.5	56.8
	60	90.0	90.0	90.0	78.7	90.0	76.7		60	73.3	73.3	73.3	52.5	73.3	51.1
	66	90.0	90.0	90.0	71.6	90.0	69.7		66	66.7	66.7	66.7	47.7	66.7	46.5
	74	89.2	89.2	89.2	63.8	89.2	62.2		74	59.5	59.5	59.5	42.6	59.5	41.4
90	36	90.0	90.0	90.0	90.0	90.0	90.0	132	36	90.0	90.0	90.0	83.5	90.0	81.3
	42	90.0	90.0	90.0	90.0	90.0	90.0		42	90.0	90.0	90.0	71.6	90.0	69.7
	48	90.0	90.0	90.0	90.0	90.0	89.4		48	87.5	87.5	87.5	62.6	87.5	61.0
	54	90.0	90.0	90.0	81.7	90.0	79.5		54	77.8	77.8	77.8	55.7	77.8	54.2
	60	90.0	90.0	90.0	73.5	90.0	71.6		60	70.0	70.0	70.0	50.1	70.0	48.8
	66	90.0	90.0	90.0	66.8	90.0	65.1		66	63.6	63.6	63.6	45.6	63.6	44.4
	74	83.2	83.2	83.2	59.6	83.2	58.0		74	56.8	56.8	56.8	40.6	56.8	39.6
96	36	90.0	90.0	90.0	90.0	90.0	90.0	138	36	90.0	90.0	90.0	79.9	90.0	77.8
	42	90.0	90.0	90.0	90.0	90.0	90.0		42	90.0	90.0	90.0	68.5	90.0	66.7
	48	90.0	90.0	90.0	86.1	90.0	83.9		48	83.7	83.7	83.7	59.9	83.7	58.3
	54	90.0	90.0	90.0	76.6	90.0	74.5		54	74.4	74.4	74.4	53.3	74.4	51.9
	60	90.0	90.0	90.0	68.9	90.0	67.1		60	67.0	67.0	67.0	47.9	67.0	46.7
	66	87.5	87.5	87.5	62.6	87.5	61.0		66	60.9	60.9	60.9	43.6	60.9	42.4
	74	78.0	78.0	78.0	55.9	78.0	54.4		74	54.3	54.3	54.3	38.9	54.3	37.8
102	36	90.0	90.0	90.0	90.0	90.0	90.0	144	36	90.0	90.0	90.0	76.6	90.0	74.5
	42	90.0	90.0	90.0	90.0	90.0	90.0		42	90.0	90.0	90.0	65.6	90.0	63.9
	48	90.0	90.0	90.0	81.1	90.0	78.9		48	80.2	80.2	80.2	57.4	80.2	55.9
	54	90.0	90.0	90.0	72.1	90.0	70.2		54	71.3	71.3	71.3	51.0	71.3	49.7
	60	90.0	90.0	90.0	64.8	90.0	63.1		60	64.2	64.2	64.2	45.9	64.2	44.7
	66	82.4	82.4	82.4	59.0	82.4	57.4		66	58.3	58.3	58.3	41.8	58.3	40.7
	74	73.4	73.4	73.4	52.6	73.4	51.2		74	52.0	52.0	52.0	37.2	52.0	36.3
108	36	90.0	90.0	90.0	90.0	90.0	90.0	150	36	90.0	90.0	90.0	73.5	90.0	71.6
	42	90.0	90.0	90.0	87.5	90.0	85.2		42	88.0	88.0	88.0	63.0	88.0	61.3
	48	90.0	90.0	90.0	76.6	90.0	74.5		48	77.0	77.0	77.0	55.1	77.0	53.7
	54	90.0	90.0	90.0	68.0	90.0	66.3		54	68.4	68.4	68.4	49.0	68.4	47.7
	60	85.6	85.6	85.6	61.2	85.6	59.6		60	61.6	61.6	61.6	44.1	61.6	42.9
	66	77.8	77.8	77.8	55.7	77.8	54.2		66	56.0	56.0	56.0	40.1	56.0	39.0
	74	69.4	69.4	69.4	49.7	69.4	48.4		74	49.9	49.9	49.9	35.8	49.9	34.8

NOTE:

- REFER TO SHEET 11, 12, 13, & 14 FOR DETAILS OF ANCHOR REQUIREMENTS. AND DETERMINING MAX. SPAN 'L' AND TRIBUTARY WIDTHS 'W'
- SEE SHEET 2, TWIN SPAN ELEVATION FOR LOCATION OF F-ANCHOR WHEN USED AT VERTICAL MULLION BETWEEN DOOR AND D.L.O.

FRAME SIZE		MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)			
MAX. SPAN 'L'	MAX. WIDTH 'W'	A	B	C	D
72	36	90.0	90.0	90.0	76.6
	42	90.0	90.0	90.0	65.6
	48	80.2	80.2	80.2	57.4
	54	71.3	71.3	71.3	51.0
	60	64.2	64.2	64.2	45.9
	66	58.3	58.3	58.3	41.8
	74	52.0	52.0	52.0	37.2
78	36	90.0	90.0	90.0	70.7
	42	84.6	84.6	84.6	60.6
	48	74.0	74.0	74.0	53.0
	54	65.8	65.8	65.8	47.1
	60	59.2	59.2	59.2	42.4
	66	53.8	53.8	53.8	38.5
	74	48.0	48.0	48.0	34.4
84	36	90.0	90.0	90.0	65.6
	42	78.6	78.6	78.6	56.2
	48	68.8	68.8	68.8	49.2
	54	61.1	61.1	61.1	43.7
	60	55.0	55.0	55.0	39.4
	66	50.0	50.0	50.0	35.8
	74	44.6	44.6	44.6	31.9
90	36	85.6	85.6	85.6	61.2
	42	73.3	73.3	73.3	52.5
	48	64.2	64.2	64.2	45.9
	54	57.0	57.0	57.0	40.8
	60	51.3	51.3	51.3	36.7
	66	46.7	46.7	46.7	33.4
	74	41.6	41.6	41.6	29.8
96	36	80.2	80.2	80.2	57.4
	42	68.8	68.8	68.8	49.2
	48	60.2	60.2	60.2	43.1
	54	53.5	53.5	53.5	38.3
	60	48.1	48.1	48.1	34.5
	66	43.8	43.8	43.8	31.3
	74	39.0	39.0	39.0	27.9
102	36	75.5	75.5	75.5	54.0
	42	64.7	64.7	64.7	46.3
	48	56.6	56.6	56.6	40.5
	54	50.3	50.3	50.3	36.0
	60	45.3	45.3	45.3	32.4
	66	41.2	41.2	41.2	29.5
	74	36.7	36.7	36.7	26.3
108	36	71.3	71.3	71.3	51.0
	42	61.1	61.1	61.1	43.7
	48	53.5	53.5	53.5	38.3
	54	47.5	47.5	47.5	34.0
	60	42.8	42.8	42.8	30.6
	66	38.9	38.9	38.9	27.8
	74	34.7	34.7	34.7	24.8

FRAME SIZE		MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)			
MAX. SPAN 'L'	MAX. WIDTH 'W'	A	B	C	D
114	36	67.5	67.5	67.5	48.4
	42	57.9	57.9	57.9	41.4
	48	50.7	50.7	50.7	36.3
	54	45.0	45.0	45.0	32.2
	60	40.5	40.5	40.5	29.0
	66	36.8	36.8	36.8	26.4
	74	32.9	32.9	32.9	23.5
120	36	64.2	64.2	64.2	45.9
	42	55.0	55.0	55.0	39.4
	48	48.1	48.1	48.1	34.5
	54	42.8	42.8	42.8	30.6
	60	38.5	38.5	38.5	27.6
	66	35.0	35.0	35.0	25.1
	74	31.2	31.2	31.2	22.3
126	36	61.1	61.1	61.1	43.7
	42	52.4	52.4	52.4	37.5
	48	45.8	45.8	45.8	32.8
	54	40.7	40.7	40.7	29.2
	60	36.7	36.7	36.7	26.2
	66	33.3	33.3	33.3	23.9
	74	29.7	29.7	29.7	21.3
132	36	58.3	58.3	58.3	41.8
	42	50.0	50.0	50.0	35.8
	48	43.8	43.8	43.8	31.3
	54	38.9	38.9	38.9	27.8
	60	35.0	35.0	35.0	25.1
	66	31.8	31.8	31.8	22.8
	74	28.4	28.4	28.4	20.3
138	36	55.8	55.8	55.8	39.9
	42	47.8	47.8	47.8	34.2
	48	41.8	41.8	41.8	30.0
	54	37.2	37.2	37.2	26.6
	60	33.5	33.5	33.5	24.0
	66	30.4	30.4	30.4	21.8
	74	27.1	27.1	27.1	19.4
144	36	53.5	53.5	53.5	38.3
	42	45.8	45.8	45.8	32.8
	48	40.1	40.1	40.1	28.7
	54	35.6	35.6	35.6	25.5
	60	32.1	32.1	32.1	23.0
	66	29.2	29.2	29.2	20.9
	74	26.0	26.0	26.0	18.6
150	36	51.3	51.3	51.3	36.7
	42	44.0	44.0	44.0	31.5
	48	38.5	38.5	38.5	27.6
	54	34.2	34.2	34.2	24.5
	60	30.8	30.8	30.8	22.0
	66	28.0	28.0	28.0	20.0
	74	25.0	25.0	25.0	17.9

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SINGLE SPAN & MULTI SPAN
S ANCHOR CAPACITIES

FRAME SIZE		MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)
MAX. SPAN 'L'	MAX. WIDTH 'W'	E
72	36	90.0
	42	90.0
	48	90.0
	54	90.0
	60	90.0
	66	90.0
	74	90.0
78	36	90.0
	42	90.0
	48	90.0
	54	90.0
	60	90.0
	66	90.0
	74	90.0
84	36	90.0
	42	90.0
	48	90.0
	54	90.0
	60	90.0
	66	90.0
	74	89.2
90	36	90.0
	42	90.0
	48	90.0
	54	90.0
	60	90.0
	66	90.0
	74	83.2
96	36	90.0
	42	90.0
	48	90.0
	54	90.0
	60	90.0
	66	87.5
	74	78.0
102	36	90.0
	42	90.0
	48	90.0
	54	90.0
	60	90.0
	66	82.4
	74	73.4
108	36	90.0
	42	90.0
	48	90.0
	54	90.0
	60	85.6
	66	77.8
	74	69.4

FRAME SIZE		MAX. ANCHOR CAPACITY - DESIGN PRESSURES (+/- PSF)
MAX. SPAN 'L'	MAX. WIDTH 'W'	E
114	36	90.0
	42	90.0
	48	90.0
	54	90.0
	60	81.1
	66	73.7
	74	65.7
120	36	90.0
	42	90.0
	48	90.0
	54	85.6
	60	77.0
	66	70.0
	74	62.4
126	36	90.0
	42	90.0
	48	90.0
	54	81.5
	60	73.3
	66	66.7
	74	59.5
132	36	90.0
	42	90.0
	48	87.5
	54	77.8
	60	70.0
	66	63.6
	74	56.8
138	36	90.0
	42	90.0
	48	83.7
	54	74.4
	60	67.0
	66	60.9
	74	54.3
144	36	90.0
	42	90.0
	48	80.2
	54	71.3
	60	64.2
	66	58.3
	74	52.0
150	36	90.0
	42	88.0
	48	77.0
	54	68.4
	60	61.6
	66	56.0
	74	49.9

- NOTE:
- REFER TO SHEET 12, 13, & 14 FOR DETAILS OF ANCHOR REQUIREMENTS. AND DETERMINING MAX. SPAN 'L' AND TRIBUTARY WIDTHS 'W'
 - SEE SHEET 2, TWIN SPAN ELEVATION FOR LOCATION OF S-ANCHOR WHEN USED AT VERTICAL MULLION BETWEEN DOOR AND D.L.O.



Quality
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YKK AP America, Inc.

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

TITLE:

YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)
SINGLE SPAN & MULTI SPAN
S ANCHOR CAPACITIES

PREPARED BY:

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



REMARKS	BY	DATE

THE INSTALLATION DETAILS DESCRIBED HERE IN 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.



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FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL17111

DATE: 08.18.17

DWG. BY:

AR/RV

CHK. BY:

HFN

SCALE: NTS

DWG. #: YKK039

SHEET:

16

OF 25

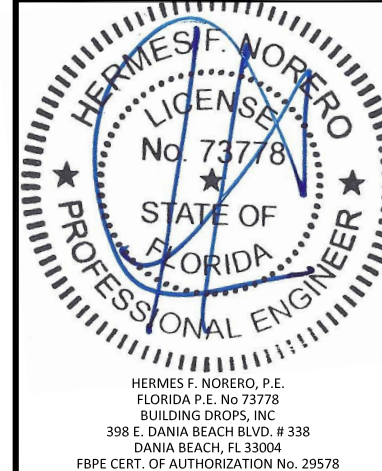
TITLE:
YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)
WIND LOAD ANCHOR
& SPLICE DETAILS

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
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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.



FL #:
FL17111

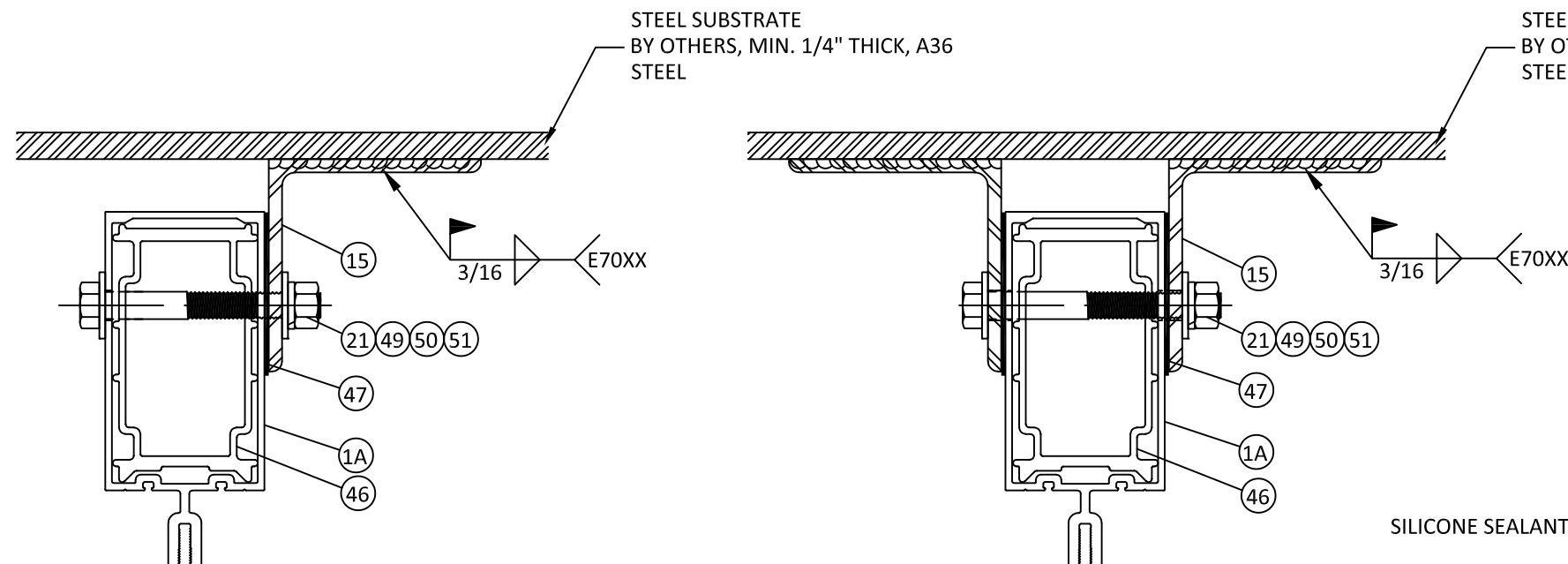
DATE: **08.18.17**

DWG. BY: **AR/RV** CHK. BY: **HFN**

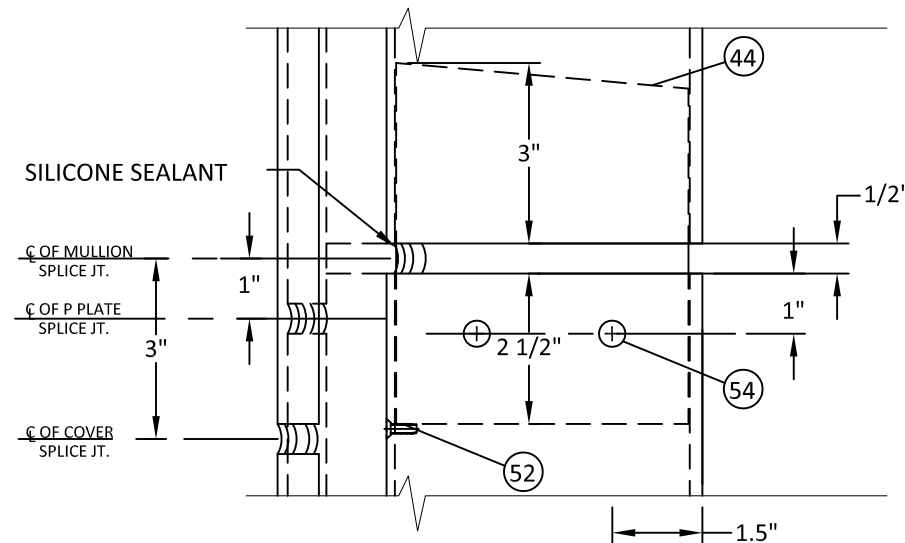
SCALE: **NTS**

DWG. #: **YKK039**

SHEET:
17



- WIND LOAD ANCHOR NOTES:
- WIND LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 6,745 LBS (UNFACTORED) AT DOUBLE ANGLE SUPPORTS
 - WL = +/- 3,372.5 LBS (UNFACTORED) AT SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"

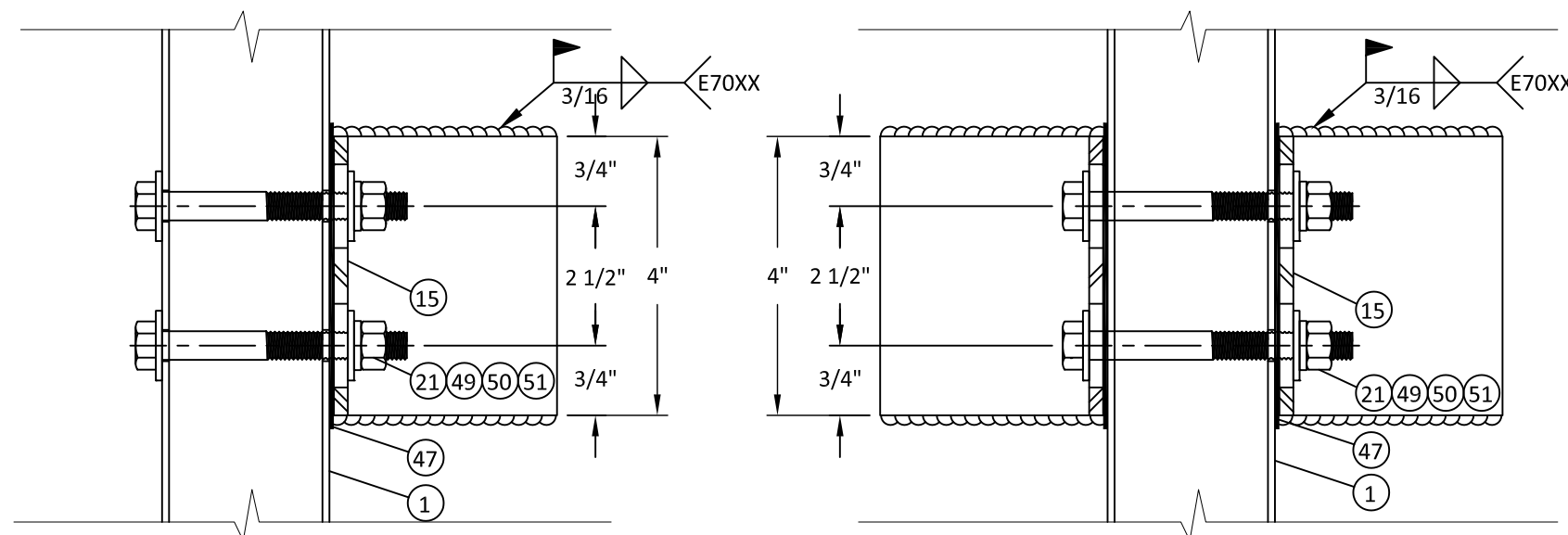


A **HORIZONTAL SECTION**
WIND LOAD ANCHOR
AT JAMB

B **HORIZONTAL SECTION**
WIND LOAD ANCHOR
AT VERTICAL MULLION

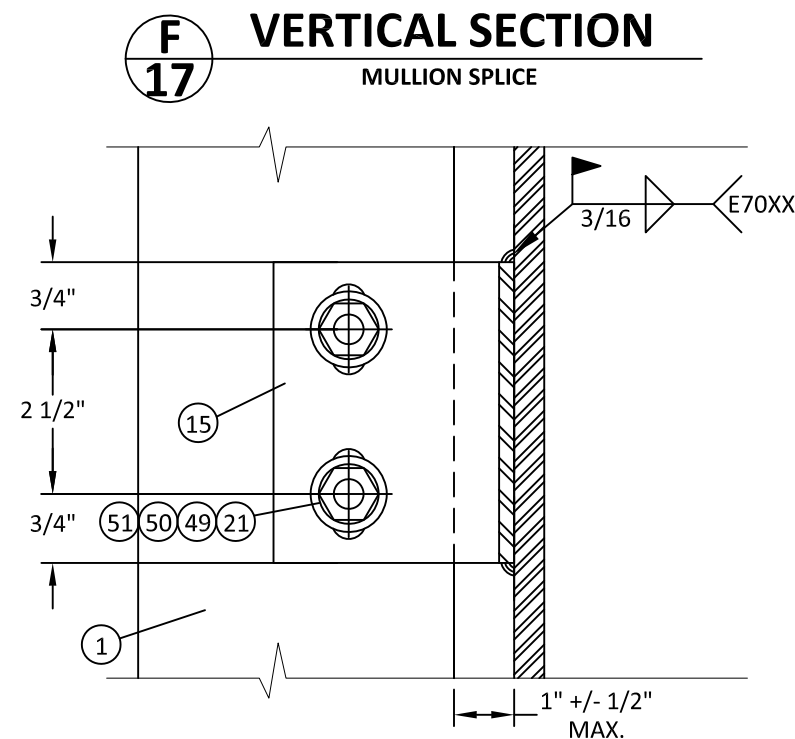
WL ANCHOR CAPACITY	
MAX. SPAN 'L'	MAX. DESIGN PRESSURE
150"	+/- 70 PSF

CAPTURED SHOWN
SSG SIMILAR



D **EXTERIOR VIEW**
WIND LOAD ANCHOR
AT JAMB

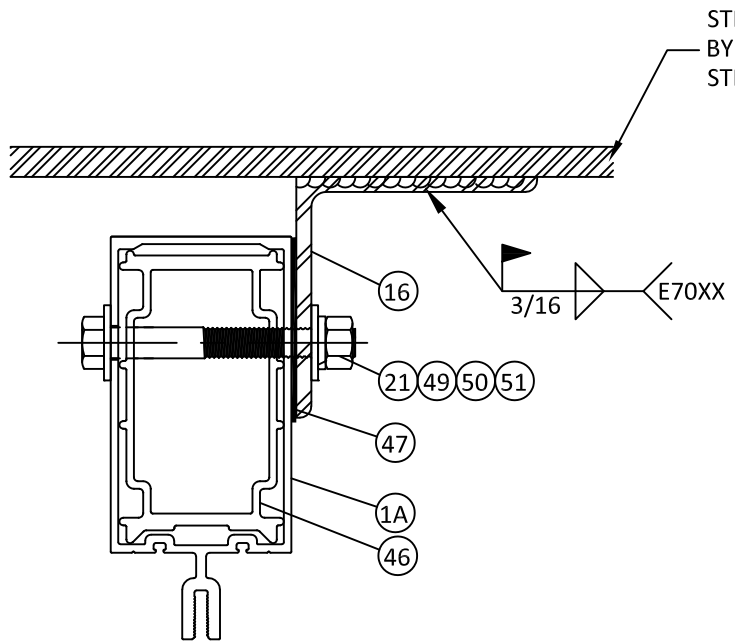
E **EXTERIOR VIEW**
WIND LOAD ANCHOR
AT VERTICAL MULLION



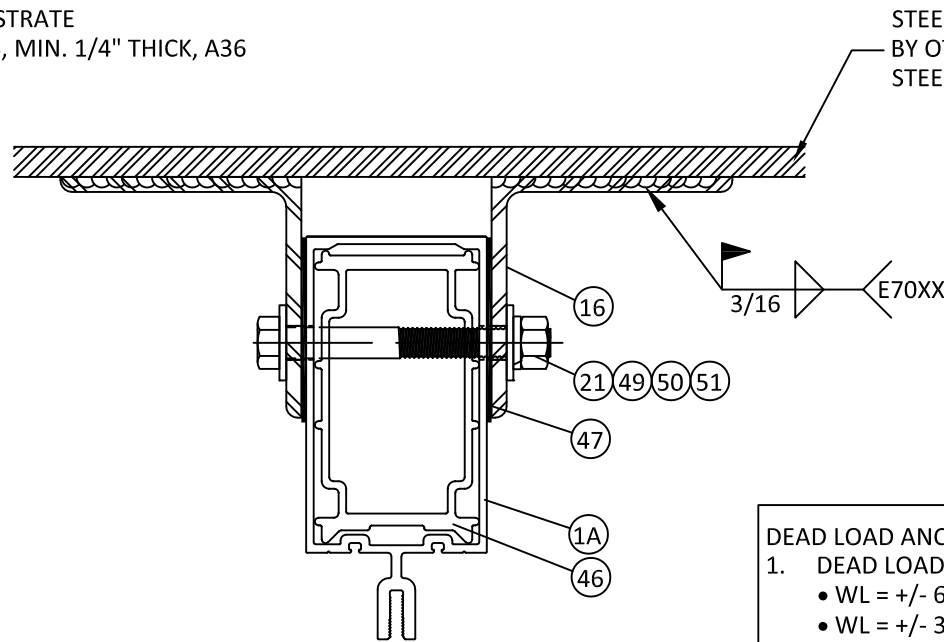
C **VERTICAL SECTION**
WIND LOAD ANCHOR
STEEL SUBSTRATE

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A
18 **HORIZONTAL SECTION**
DEAD LOAD ANCHOR
AT JAMB

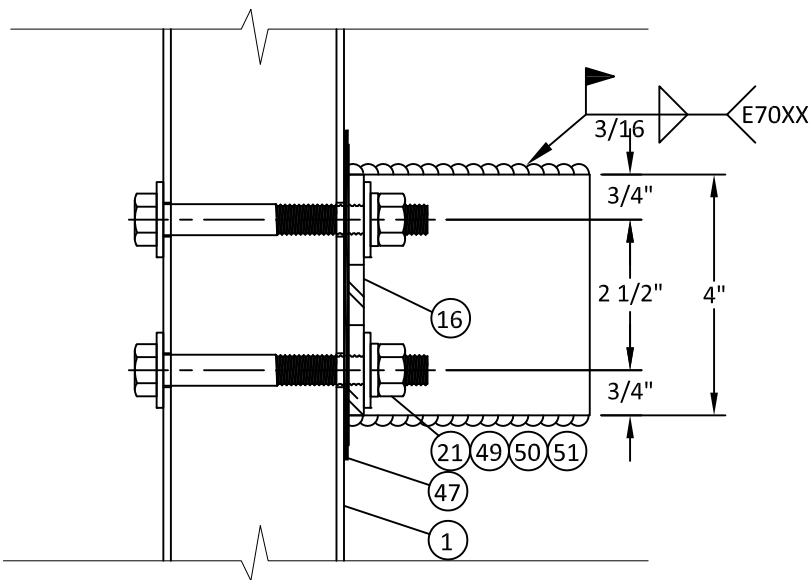


B
18 **HORIZONTAL SECTION**
DEAD LOAD ANCHOR
AT VERTICAL MULLION

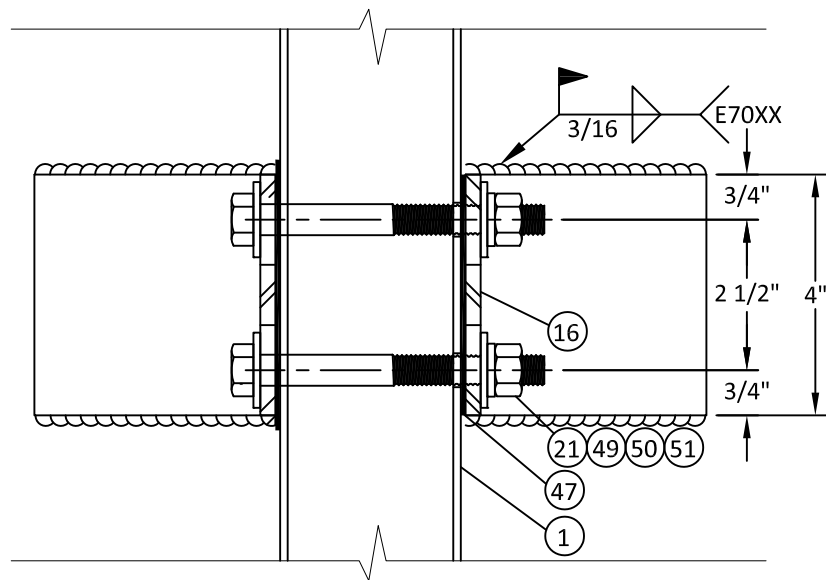
- DEAD LOAD ANCHOR NOTES:
- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 6,745 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - WL = +/- 3,372.5 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
 - DL = 1,650 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL = 825 LBS (UNFACTORED) @ SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.

DL ANCHOR CAPACITY	
MAX. SPAN 'L'	MAX. DESIGN PRESSURE
150"	+/- 70 PSF

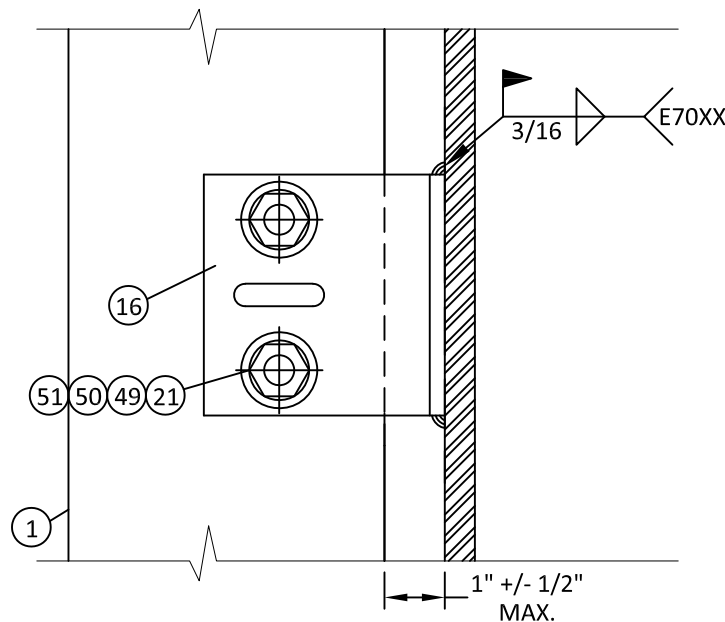
CAPTURED SHOWN
SSG SIMILAR



C
18 **EXTERIOR VIEW**
DEAD LOAD ANCHOR
AT JAMB



D
18 **EXTERIOR VIEW**
DEAD LOAD ANCHOR
AT VERTICAL MULLION



E
18 **VERTICAL SECTION**
DEAD LOAD ANCHOR
STEEL SUBSTRATE



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

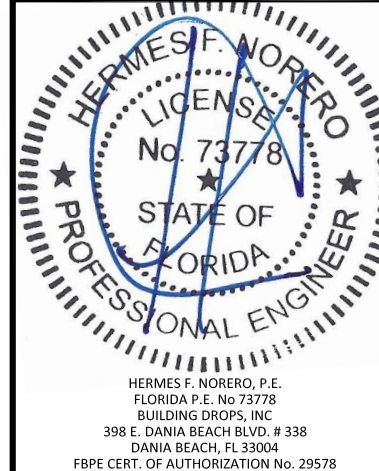
TITLE:
YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)
DEAD LOAD ANCHOR DETAILS -
WELDED

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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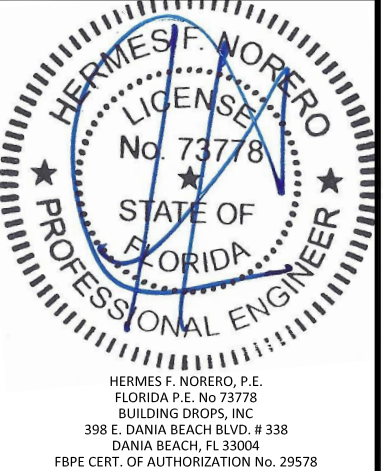
FL #:	FL17111
DATE:	08.18.17
DWG. BY:	AR/RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK039
SHEET:	18

TITLE: YHC 300 OG & SSG CURTAIN WALL SYSTEM (HVHZ) (IMPACT)

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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FL #: **FL17111**

DATE: **08.18.17**

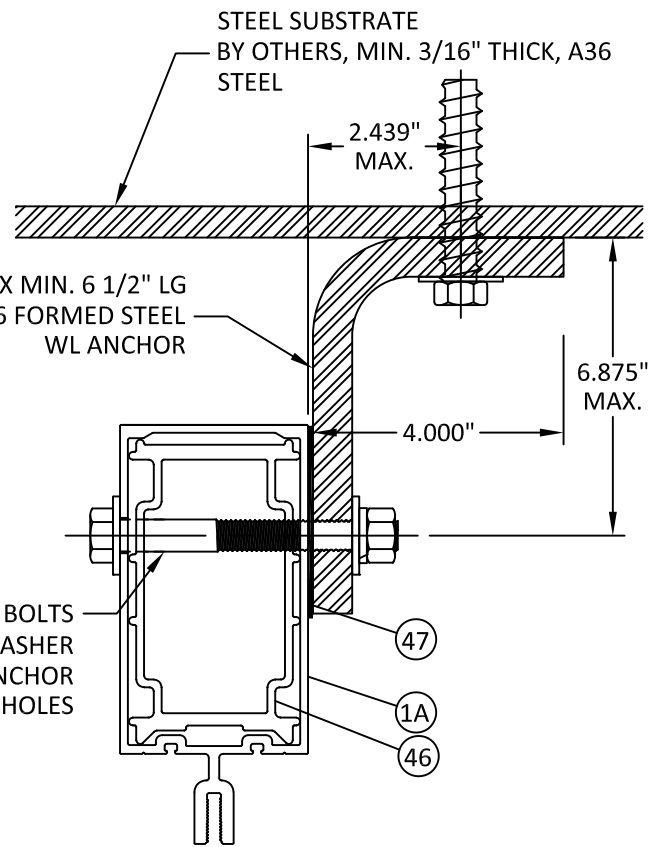
DWG. BY: **AR/RV** CHK. BY: **HFN**

SCALE: **NTS**

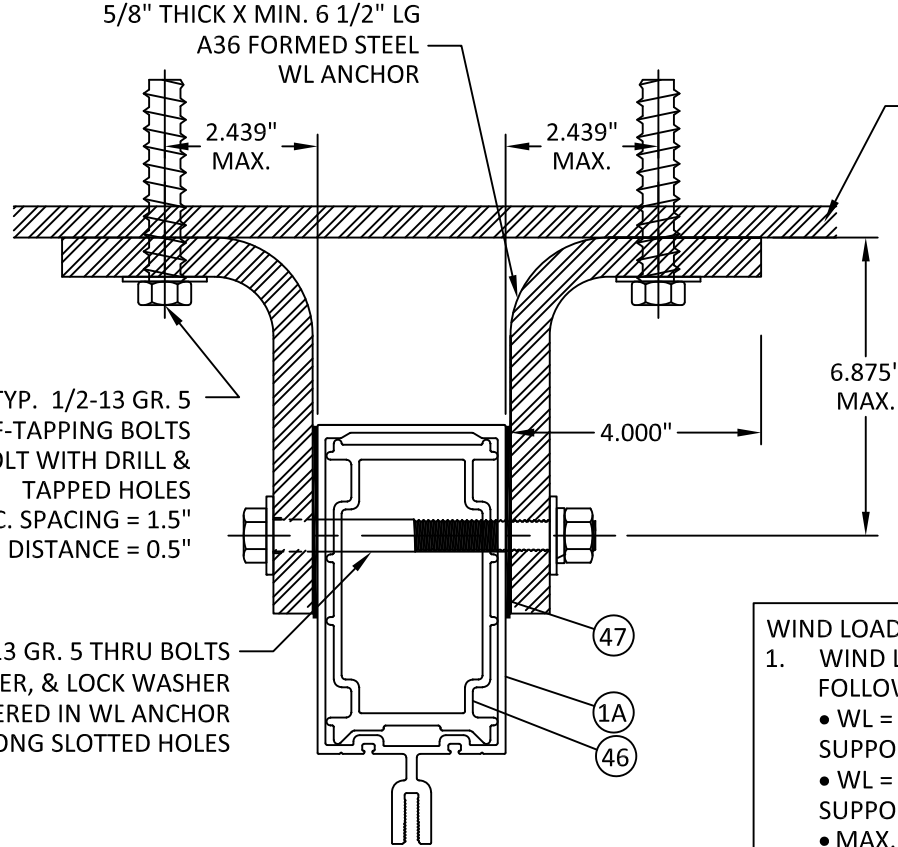
DWG. #: **YKK039**

SHEET: **19**

OF 25



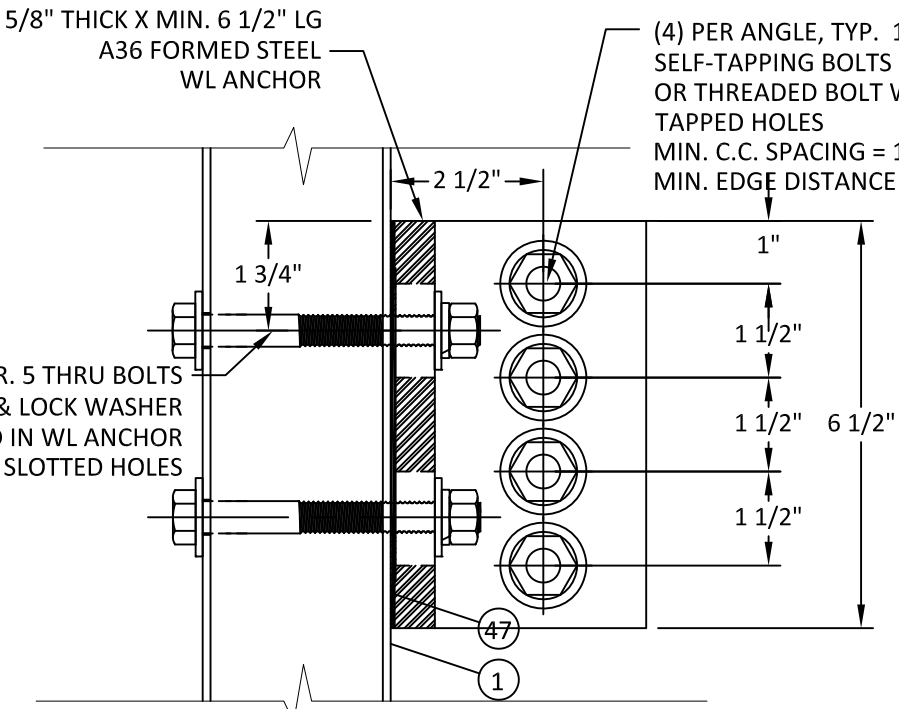
A
19 **HORIZONTAL SECTION**
WIND LOAD ANCHOR AT JAMB



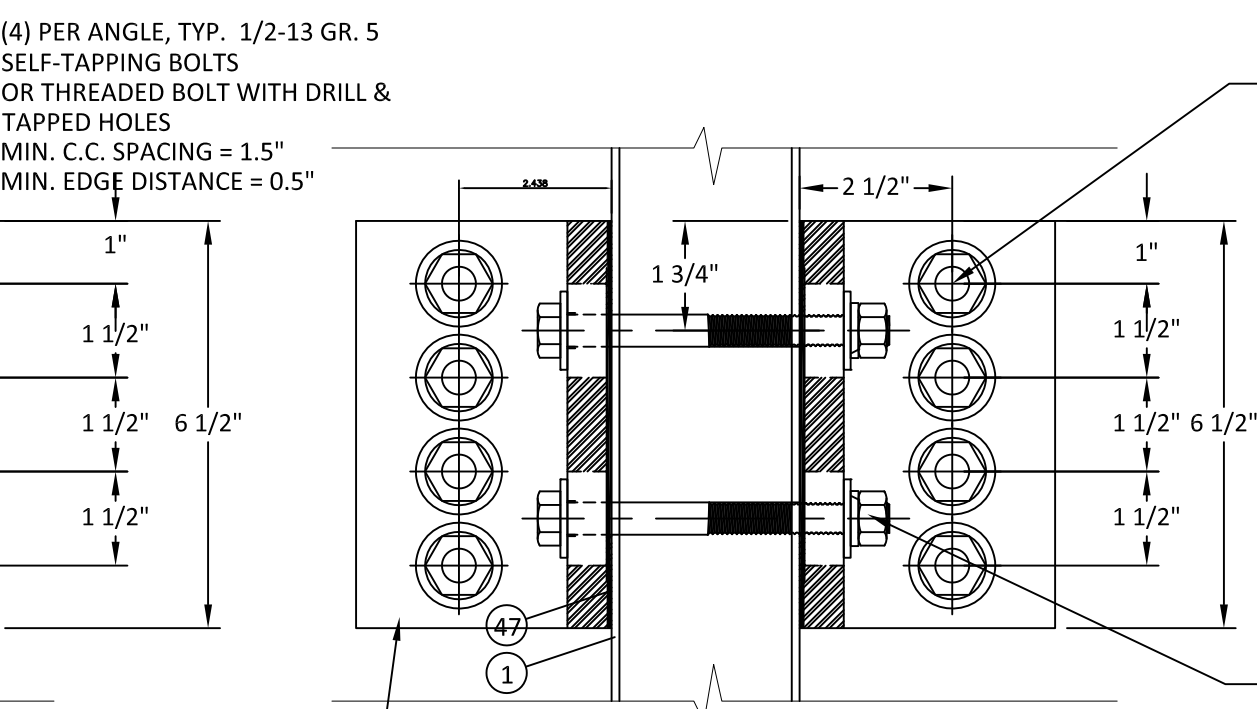
C
19 **HORIZONTAL SECTION**
WIND LOAD ANCHOR AT VERTICAL MULLION

WIND LOAD ANCHOR NOTES:

- WIND LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 6,745 LBS (UNFACTORED) AT DOUBLE ANGLE SUPPORTS
 - WL = +/- 3,372.5 LBS (UNFACTORED) AT SINGLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"
 - MAX. DESIGN PRESSURE = +/-70 PSF



B
19 **EXTERIOR VIEW**
WIND LOAD ANCHOR AT JAMB



D
19 **EXTERIOR VIEW**
WIND LOAD ANCHOR AT VERTICAL MULLION

(4) PER ANGLE, TYP. 1/2-13 GR. 5 SELF-TAPPING BOLTS OR THREADED BOLT WITH DRILL & TAPPED HOLES MIN. C.C. SPACING = 1.5" MIN. EDGE DISTANCE = 0.5"

(2) 1/2-13 GR. 5 THRU BOLTS W/ NUT, WASHER, & LOCK WASHER CENTERED IN WL ANCHOR THROUGH LONG SLOTTED HOLES

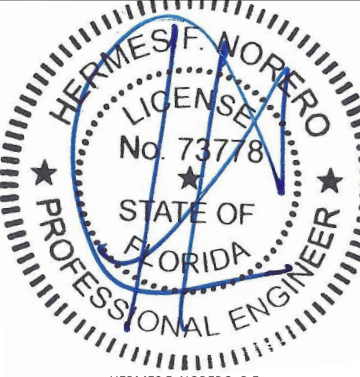
CAPTURED SHOWN
SSG SIMILAR

TITLE: YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)
DL ANCHOR - BOLTED/SCREWED
CORNER WL ANCHOR - BOLTED

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.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL17111

DATE: **08.18.17**

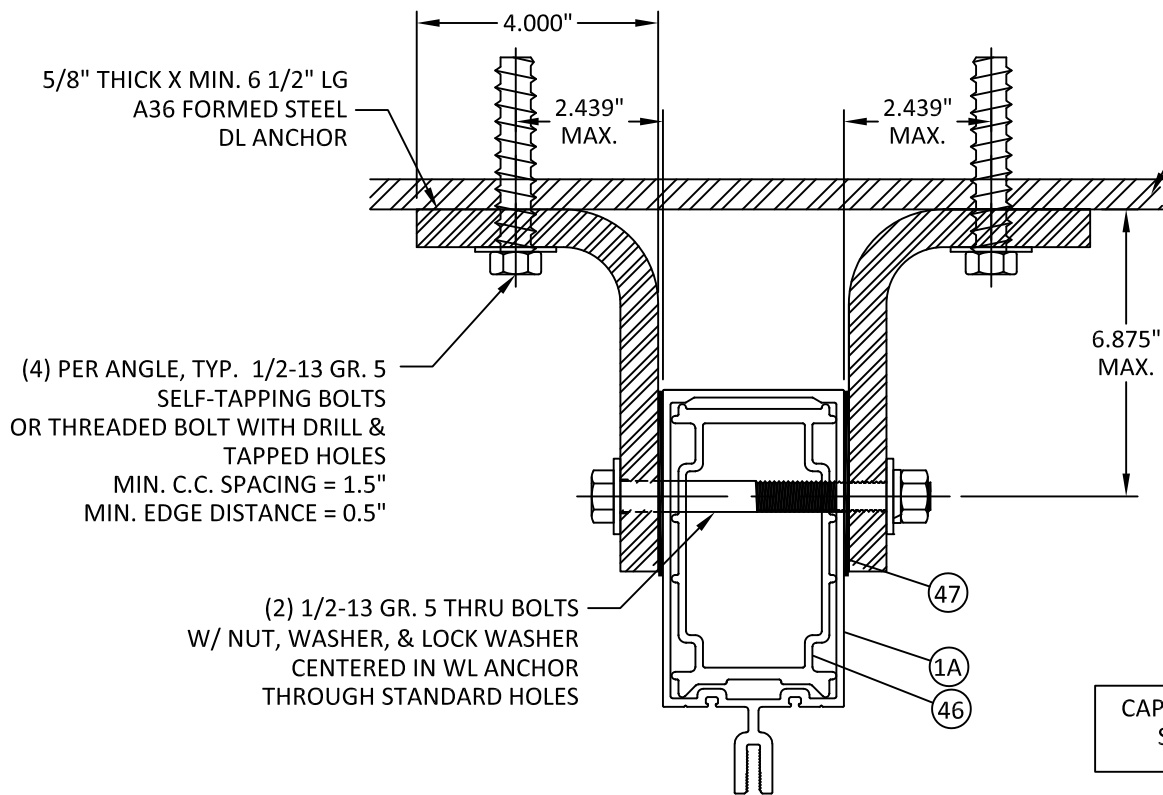
DWG. BY: **AR/RV** CHK. BY: **HFN**

SCALE: **NTS**

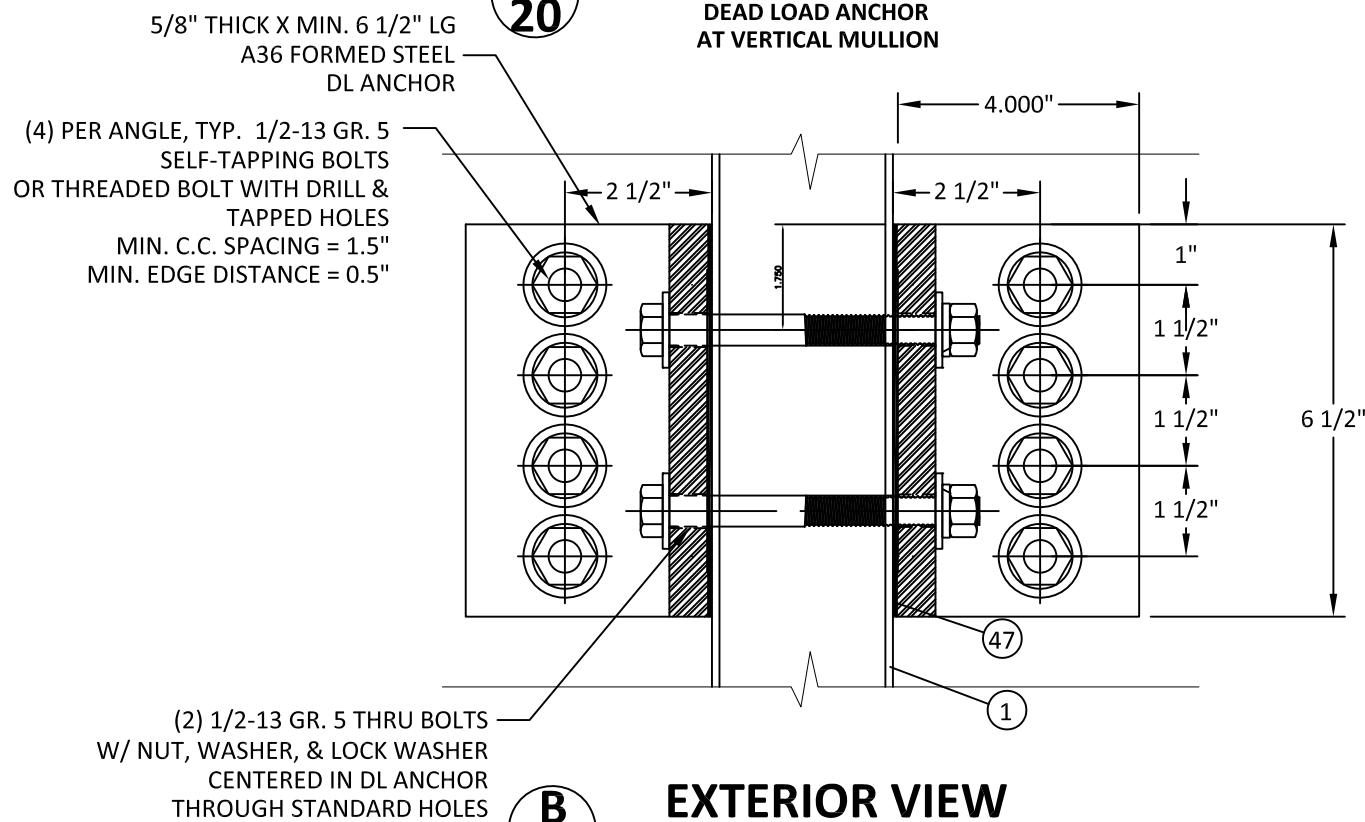
DWG. #: **YKK039**

SHEET:

20



A
20 **HORIZONTAL SECTION**
DEAD LOAD ANCHOR
AT VERTICAL MULLION

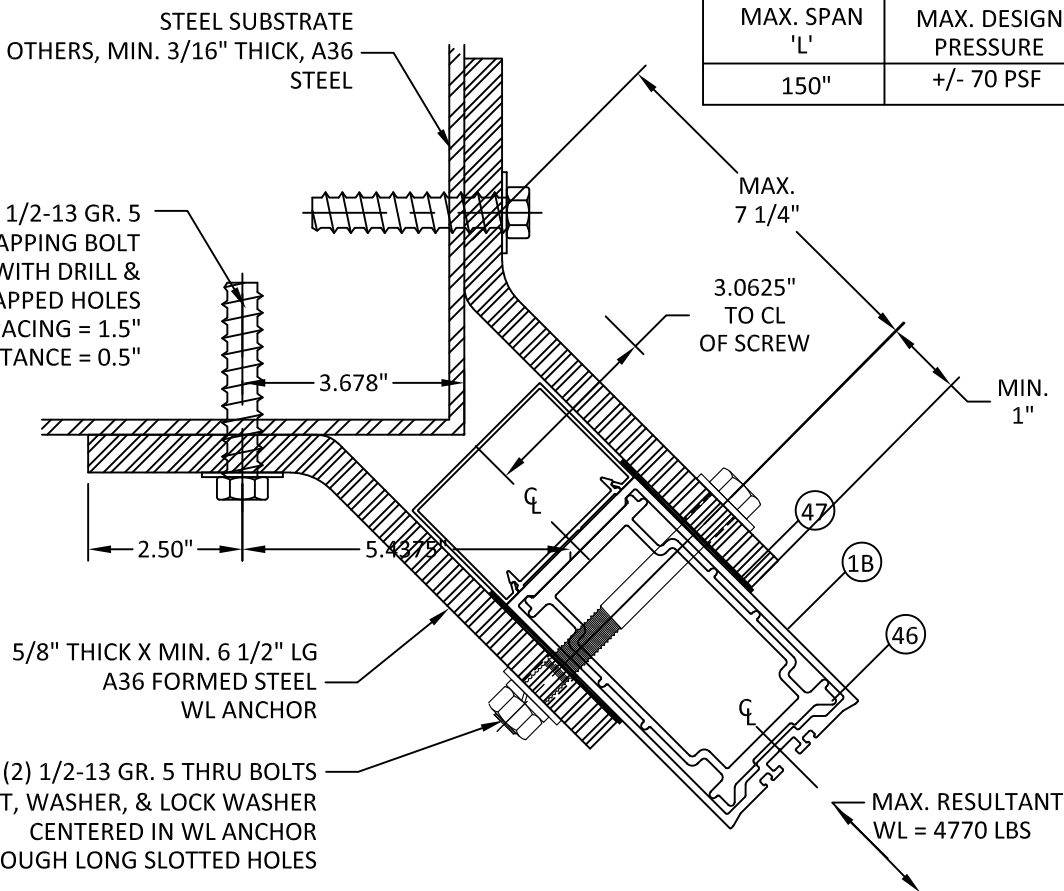


B
20 **EXTERIOR VIEW**
DEAD LOAD ANCHOR
AT VERTICAL MULLION

STEEL SUBSTRATE
BY OTHERS, MIN. 3/16" THICK, A36
STEEL

STEEL SUBSTRATE
BY OTHERS, MIN. 3/16" THICK, A36
STEEL

(4) 1/2-13 GR. 5
SELF-TAPPING BOLT
OR THREADED BOLT WITH DRILL &
TAPPED HOLES
MIN. C.C. SPACING = 1.5"
MIN. EDGE DISTANCE = 0.5"



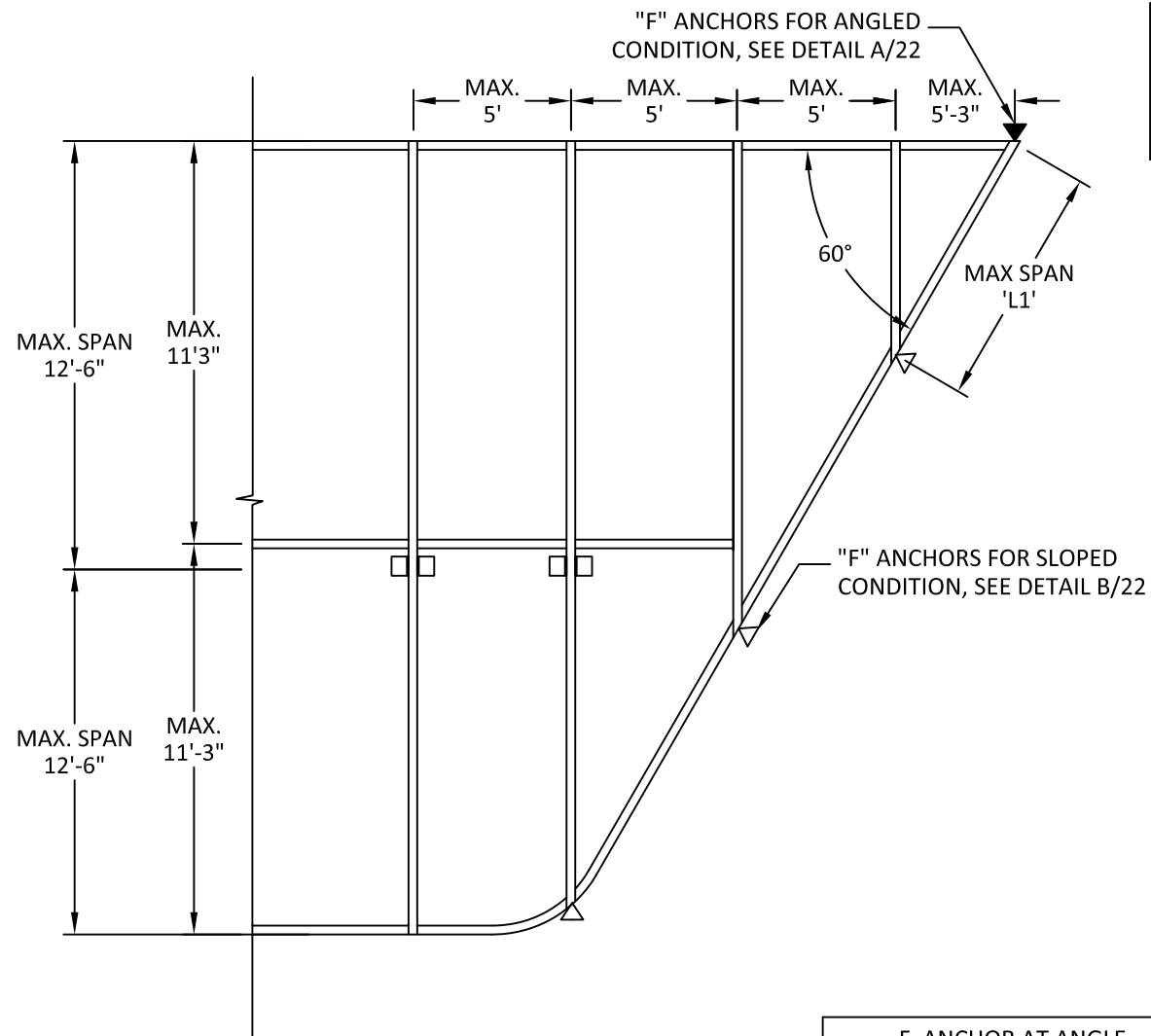
C
20 **HORIZONTAL SECTION**
OUTSIDE CORNER
WL ANCHOR

DEAD LOAD ANCHOR NOTES:

- DEAD LOAD ANCHORS HAVE BEEN EVALUATED TO THE FOLLOWING:
 - WL = +/- 6,745 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - DL = 1,650 LBS (UNFACTORED) @ DOUBLE ANGLE SUPPORTS
 - MAX. SPAN = 12'-6"
 - MAX. TRIB WIDTH = 74"
 - MAX. DESIGN PRESSURE = +/- 70 PSF
 - DL SHALL BE DETERMINED BY ENGINEER OF RECORD.

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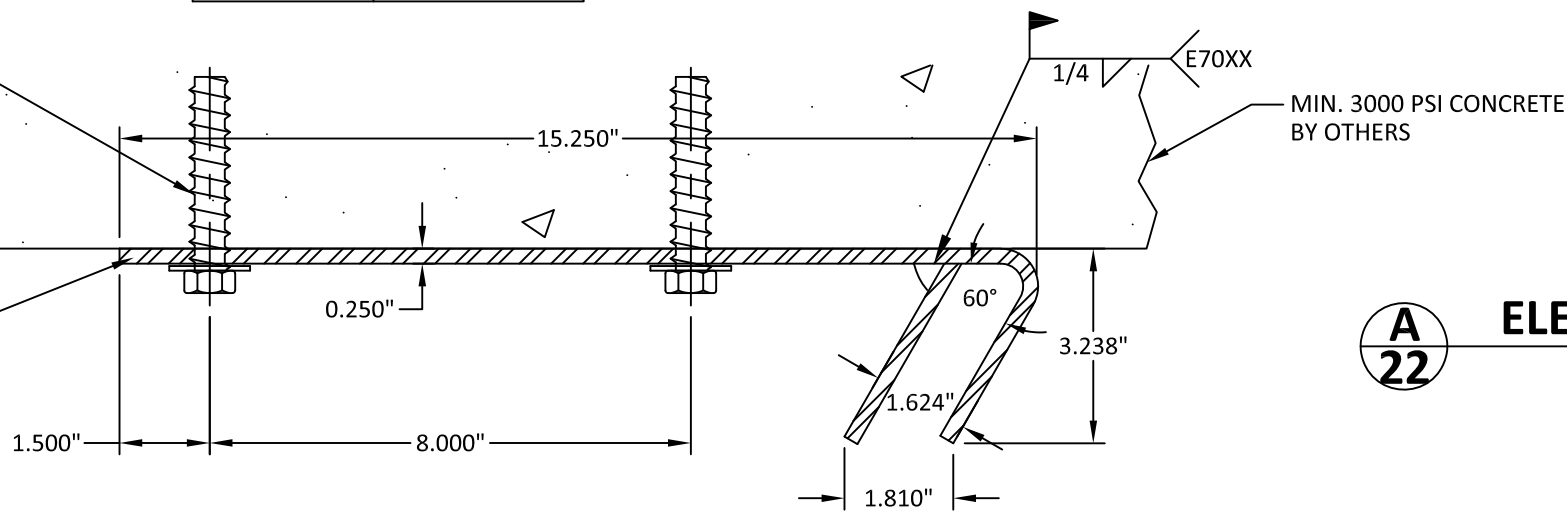


TYPICAL ELEVATION
SLOPED & ANGLED CONDITION

F ANCHOR AT ANGLE	
F ANCHOR CAPACITIES	
MAX. SPAN 'L1'	MAX. DESIGN PRESSURE
132"	+/- 70 PSF

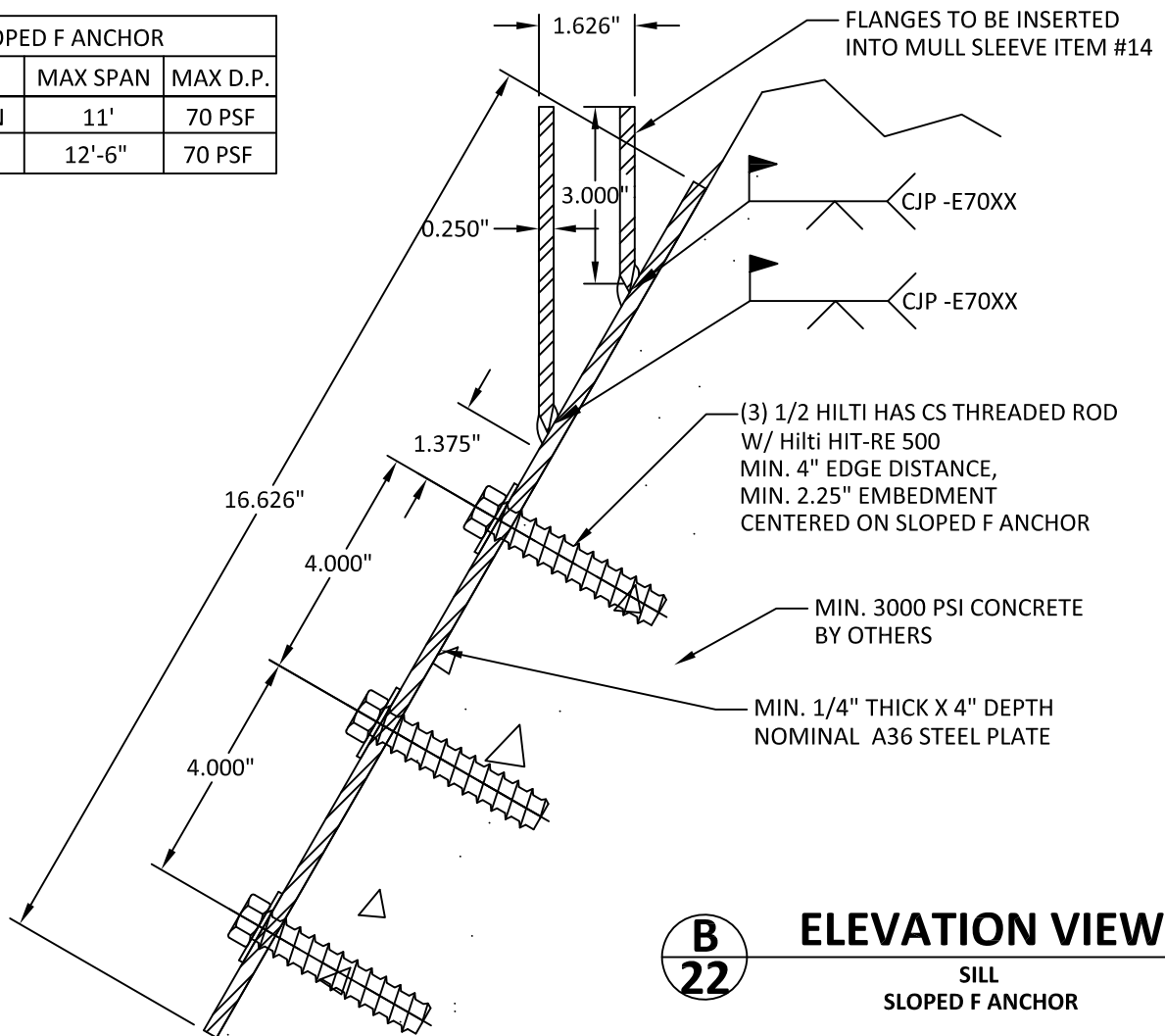
(2) 1/2" POWERS WEDGE-BOLTS
MIN. 3 1/4" EDGE DISTANCE
MIN. 3 1/2" EMBEDMENT
OR
(2) 1/2" SIMPSON TITEN HD
MIN. 3 3/4" EDGE DISTANCE
MIN. 3 1/2" EMBEDMENT

MIN. 1/4" THICK X 4" DEPTH
NOMINAL A36 STEEL PLATE



A
22 ELEVATION VIEW
HEAD
F ANCHOR AT ANGLE

SLOPED F ANCHOR		
CONDITION	MAX SPAN	MAX D.P.
SINGLE SPAN	11'	70 PSF
TWIN SPAN	12'-6"	70 PSF



B
22 ELEVATION VIEW
SILL
SLOPED F ANCHOR



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

TITLE:
YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)
CUSTOM F ANCHORS FOR SLOPED
& ANGLED CONDITION

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.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL17111

DATE: **08.18.17**

DWG. BY: **AR/RV** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK039**

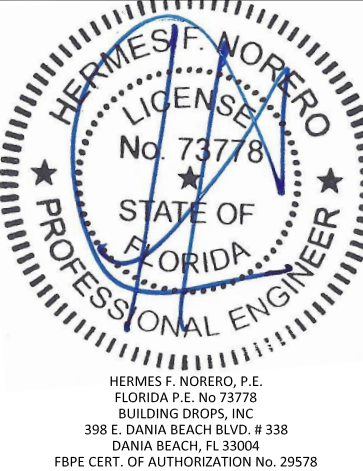
SHEET:

TITLE: YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)
FORMED SHEAR CLIP & U ANCHOR FOR
ANGLED & BENT CONDITIONS

PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
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FL17111

DATE: **08.18.17**

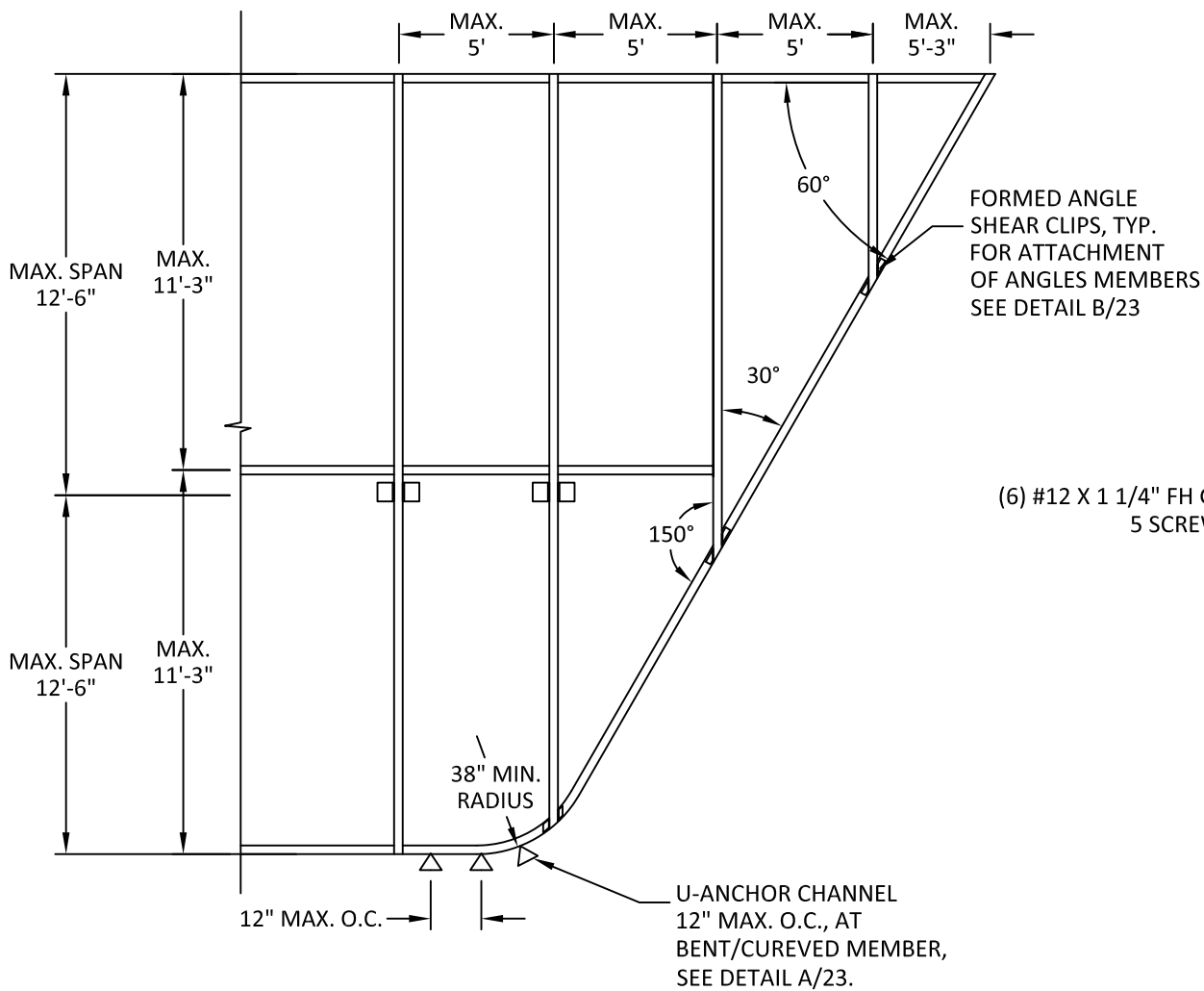
DWG. BY: **AR/RV** CHK. BY: **HFN**

SCALE: **NTS**

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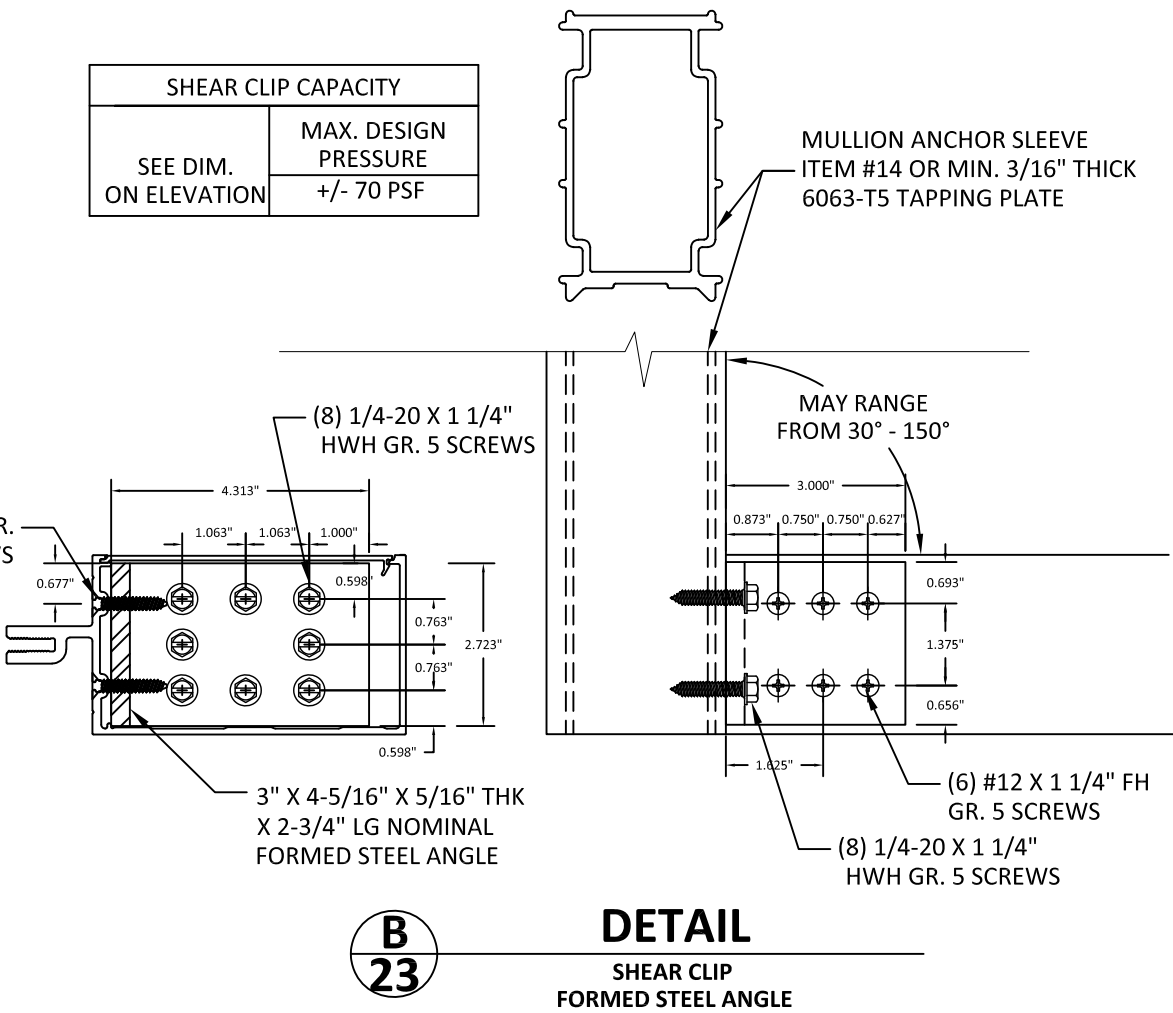
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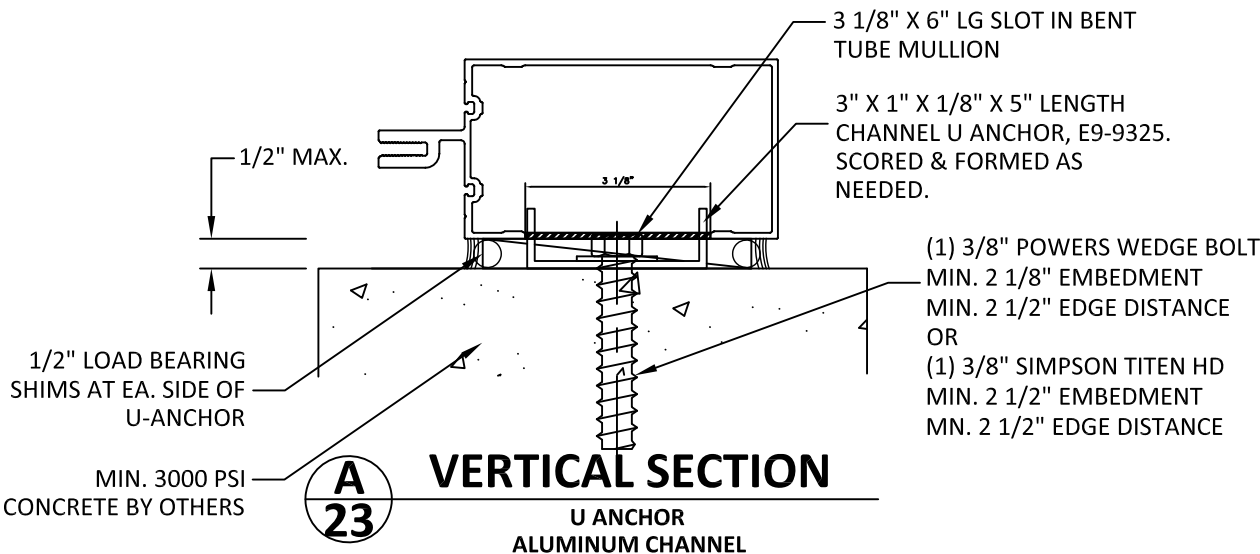
**TYPICAL ELEVATION
ANGLED & BENT MULL CONDITIONS**

U ANCHOR CAPACITY	
SEE DIM. ON ELEVATION	MAX. DESIGN PRESSURE +/- 70 PSF



**B
23**

**DETAIL
SHEAR CLIP
FORMED STEEL ANGLE**



**A
23**

**VERTICAL SECTION
U ANCHOR
ALUMINUM CHANNEL**

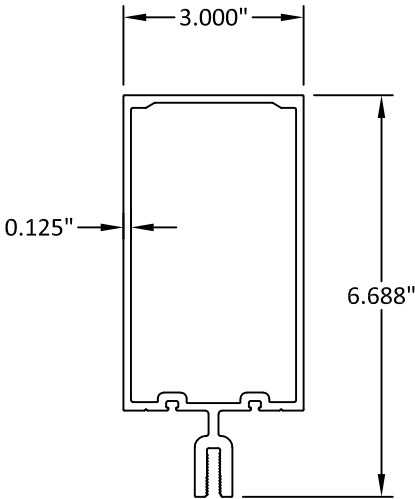
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ITEM	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1A	E9-3101	JAMB / MULLION	6063-T6	YKK AP
1B	E9-3119	SSG MULLION	6063-T6	YKK AP
2	AS-3178	PERIMETER PRESSURE PLATE (INS.)	6063-T5	YKK AP
3	AS-3172	PRESSURE PLATE (INS.)	6063-T5	YKK AP
4	E9-3161	FACE COVER	6063-T5	YKK AP
5	E9-3162	FLUSH FILLER	6063-T5	YKK AP
6	E9-3104	SILL	6063-T5	YKK AP
7	E9-3102	HORIZONTAL	6063-T5	YKK AP
8	E2-0379	GLAZING GASKET	EPDM	---
9	E2-0353	SSG GLAZING SPACER (LMI)	EPDM	---
10	E2-0611	SETTING BLOCK	EPDM (85±5)	---
11	E1-3001	SHEAR BLOCK	6063-T5	YKK AP
11A	E1-3018	CORNER END ANCHOR	-	YKK AP
12	E1-3004	'F' JAMB END ANCHOR	6063-T5	YKK AP
13	E1-3003	'T' MULLION END ANCHOR	6061-T6	YKK AP
14	E1-3006	MULLION ANCHOR SLEEVE (3")	6063-T5	YKK AP
15	E1-1204	WIND LOAD ANCHOR	A36 STEEL	---
16	E1-1205	DEAD LOAD ANCHOR	A36 STEEL	---
17	HD-2520-W3	1/4"-20 X 1-1/4" HWHMS	ZINC PLATED STEEL	---
18	FC-1212	#12 X 3/4" FHSMS TYPE AB	ZINC PLATED STEEL	---
19	HF-2510-W1	1/4"-20 X 5/8" HWHMCS	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	ZINC PLATED STEEL	---
21A	---	1/2"-13 HHMS BOLT (GRADE 5) OF SUFFICIENT LENGTH TO ACHIEVE FULL ENGAGEMENT W/ NUT SAE GR5 OR ASTM A325	---	---
22	PC-1210	#12 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL	---
23	TEK-1012	#10-16 X 3/4" TEK HWHS	ZINC PLATED STEEL	---
24	FC-1012	#10 X 3/4" FHSMS	ZINC PLATED STEEL	---
25	PC-1010	#10 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL	---
26A	E1-0175	REINFORCEMENT CHANNEL (2-1/2" X 4-1/2" X 1/4")	A36 STEEL	---
26B	E1-0189	STEEL REINFORCING CHANNEL	STEEL	---
27	E9-3152	90° OUTSIDE CORNER TRIM	6063-T5	YKK AP
28	E9-3149	90° SSG OUTSIDE CORNER ADAPTOR	6063-T5	YKK AP
29	E9-3174	90° CORNER FACE COVER (INS)	6063-T5	YKK AP
30	E9-1280	90° CORNER INT. COVER BASE	6063-T5	YKK AP
31	E9-3165	90° CORNER INT. COVER	6063-T5	YKK AP
32	PC-1010	#10 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL	---
33	E1-0190	DEADLOAD ANCHOR FOR 90° CORNER	A36 STEEL	---
34	E1-0191	WINDLOAD ANCHOR FOR 90° CORNER	A36 STEEL	---
35	E1-3039	'S' ANCHOR AT DOOR JAMB	6063-T6	YKK AP
36	E2-0386	ISOLATOR TAPE	PVC SPONGE	---
37	E2-0355	END DAM PLUG	EPDM SPONGE	---
38	E1-3016	90° CORNER SHEAR CLIP (RH)	6063-T5	YKK AP
39	E1-3017	90° CORNER SHEAR CLIP (LH)	6063-T5	YKK AP
40	AS-3175	90° CORNER PRESSURE PLATE (INS)	6063-T5	YKK AP
41	E9-3145	90° CORNER ADAPTOR (INS)	6063-T5	YKK AP
42	E1-3010	MULLION END CAP	ALUM SHEET	---
43	---	NOT USED	---	---
44	E1-3005	MULLION SPLICE SLEEVE (6")	6063-T5	YKK AP
45	E1-3009	FACE COVER SPLICE SLEEVE	6063-T5	YKK AP
46	E1-3007	MULLION REINFORCEMENT SLEEVE (29")	6063-T5	YKK AP
47	E3-0103	ANCHOR SLIP PAD	NYLON	---
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" FHTCS TYPE F	ZINC PLATED STEEL	---
53	---	#14 X 3-1/2" FHTCS (F)	---	---
54	FC-1212	#12 X 3/4" FHSMS TYPE AB	ZINC PLATED STEEL	---
55	E2-0537	SIDE BLOCK	EPDM	---
56	E2-0103	THERMAL ISOLATOR	EPDM	---
57	E9-3110	POCKET FILLER (INS)	6063-T5	YKK AP
58	E2-0176	SSG GLAZING SPACER (SMI)	EPDM	---
59	PC-1012	#10 X 1/2" PHSMS TYPE AB	ZINC PLATED STEEL	---
60	PC-1210	#12 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL	---
61	---	#10 TEK @ 18" O.C.	ZINC PLATED STEEL	---
62	PC-0804	#10 X 1/4" PHSMS	ZINC PLATED STEEL	---
63	PC-1220	#12 X 1-1/4" PHSMS TYPE AB	ZINC PLATED STEEL	---
64	E9-3159	OPEN BACK HEAD/HORIZONTAL	6063-T5	YKK AP

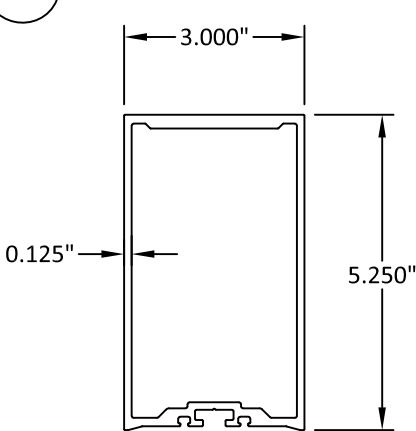
1A

JAMB/MULLION



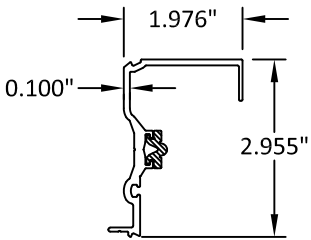
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SSG MULLION



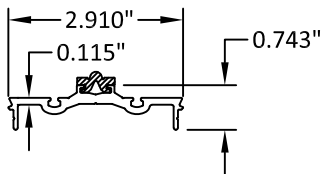
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PERIMETER PRESSURE PLATE (INS.)



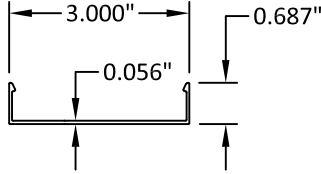
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PRESSURE PLATE (INS.)



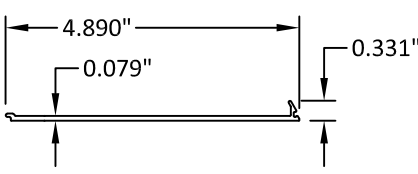
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FACE COVER



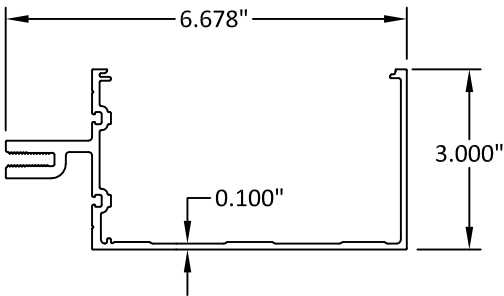
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FLUSH FILLER



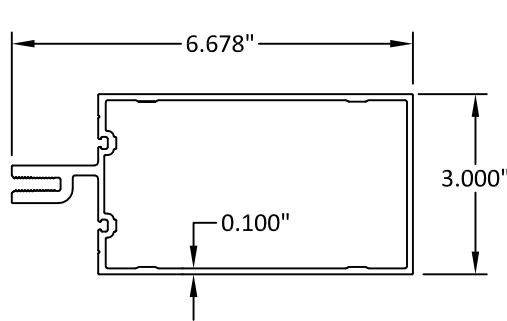
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SILL



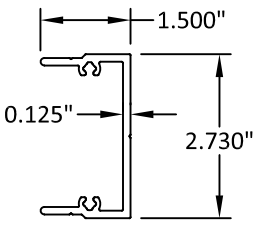
7

HORIZONTAL



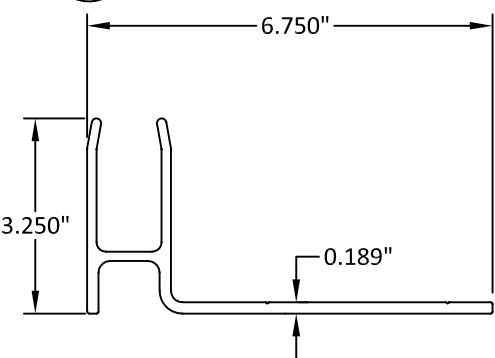
11

SHEAR BLOCK



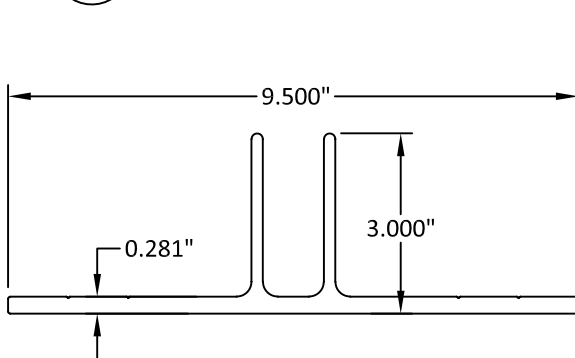
12

'F' JAMB END ANCHOR



13

'T' MULLION END ANCHOR



14

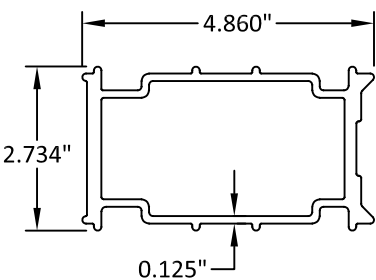
MULLION ANCHOR SLEEVE (3")

44

MULLION SPLICE SLEEVE (6")

46

MULLION REINF. SLEEVE (29")



YKK AP America, Inc.

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

TITLE:

YHC 300 OG & SSG
CURTAIN WALL SYSTEM
(HVHZ) (IMPACT)

BILL OF MATERIALS & COMPONENTS

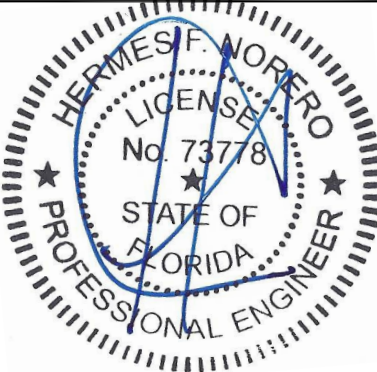
PREPARED BY:

BUILDING DROPS, INC.

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DANIA BEACH, FL 33004
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WEB: www.buildingdrops.com



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HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:

FL17111

DATE: 08.18.17

DWG. BY: AR/RV

CHK. BY: HFN

SCALE: NTS

DWG. #: YKK039

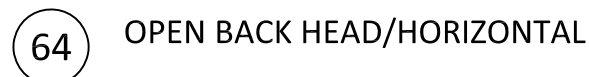
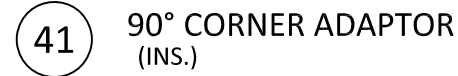
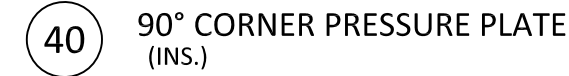
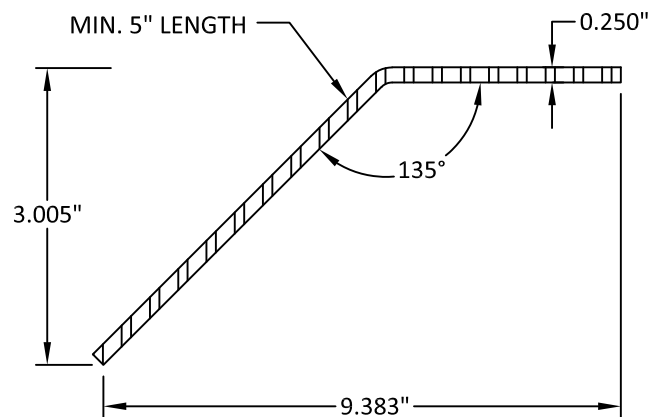
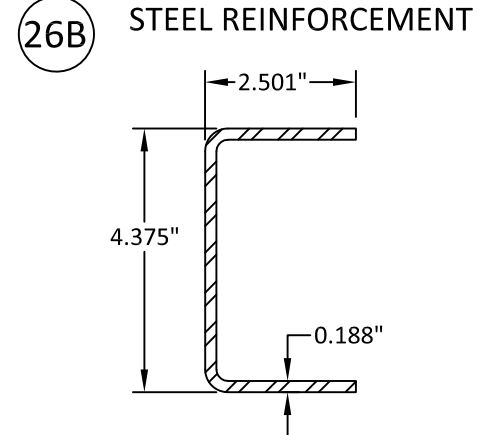
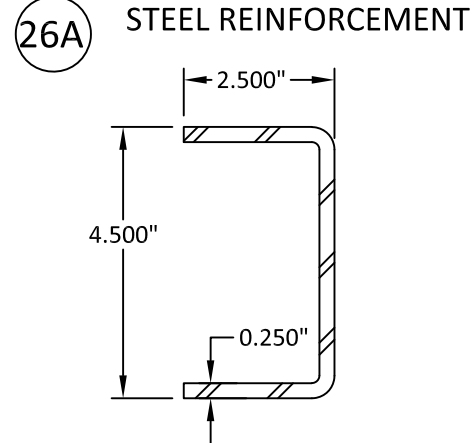
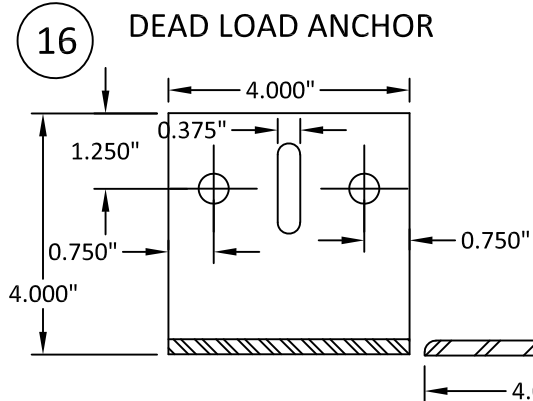
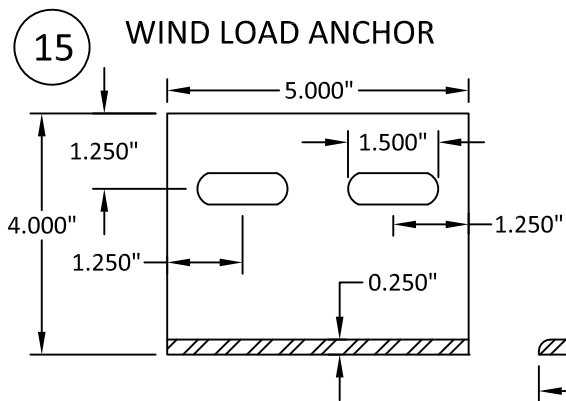
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YKK AP America, Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC 300 OG & SSG CURTAIN WALL SYSTEM (HVHZ) (IMPACT) COMPONENTS (1)

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
LICENSE No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
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SHEET: 25 OF 25