



YKK AP AMERICA, Inc.

YHC 300 SSG Cassette (Insulating Glass) 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 9 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.

- | | |
|--------|---|
| STEP 1 | DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD. |
| STEP 2 | SEE CHARTS ON SECTION 6 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE. |
| STEP 3 | CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SECTIONS 4.2 & 4.3 FOR SINGLE SPANS, AND EQUAL MULTIPLE SPANS. |
| STEP 4 | USING HEAD/SILL ANCHOR DETAILS ON SECTION 7 THRU 7.6 SELECT ANCHOR OPTION FROM TABLES ON SECTION 7.7 THRU 7.9 WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE. |
| STEP 5 | CHECK INTERMEDIATE ANCHOR CAPACITY FOR MULTIPLE SPANS USING CHARTS OR DETAILS ON SECTION 8 |
| STEP 6 | 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 CURRENT FLORIDA BUILDING CODE, INCLUDING REQUIREMENTS FOR HVHZ.
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY , 2X AND STEEL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND THE INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITION CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN , A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
- THIS PRODUCT DOES **NOT** REQUIRE IMPACT PROTECTIVE DEVICES.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.

TABLE OF CONTENTS	
SECTION	SECTION DESCRIPTION
1	COVER SHEET & GENERAL NOTES
2	ELEVATION
3	VERTICAL SECTIONS
4	HORIZONTAL SECTIONS
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 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)

COVER SHEET & GENERAL NOTES

PREPARED BY:

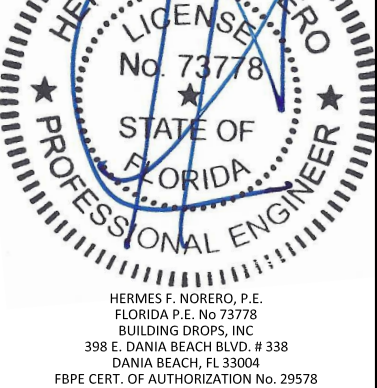


BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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: 2020.08.31.18:38:18 -0400



FL #:
FL25556

DATE: **12.06.17**

DWG. BY: RV	CHK. BY: HFN
-----------------------	------------------------

SCALE: **NTS**

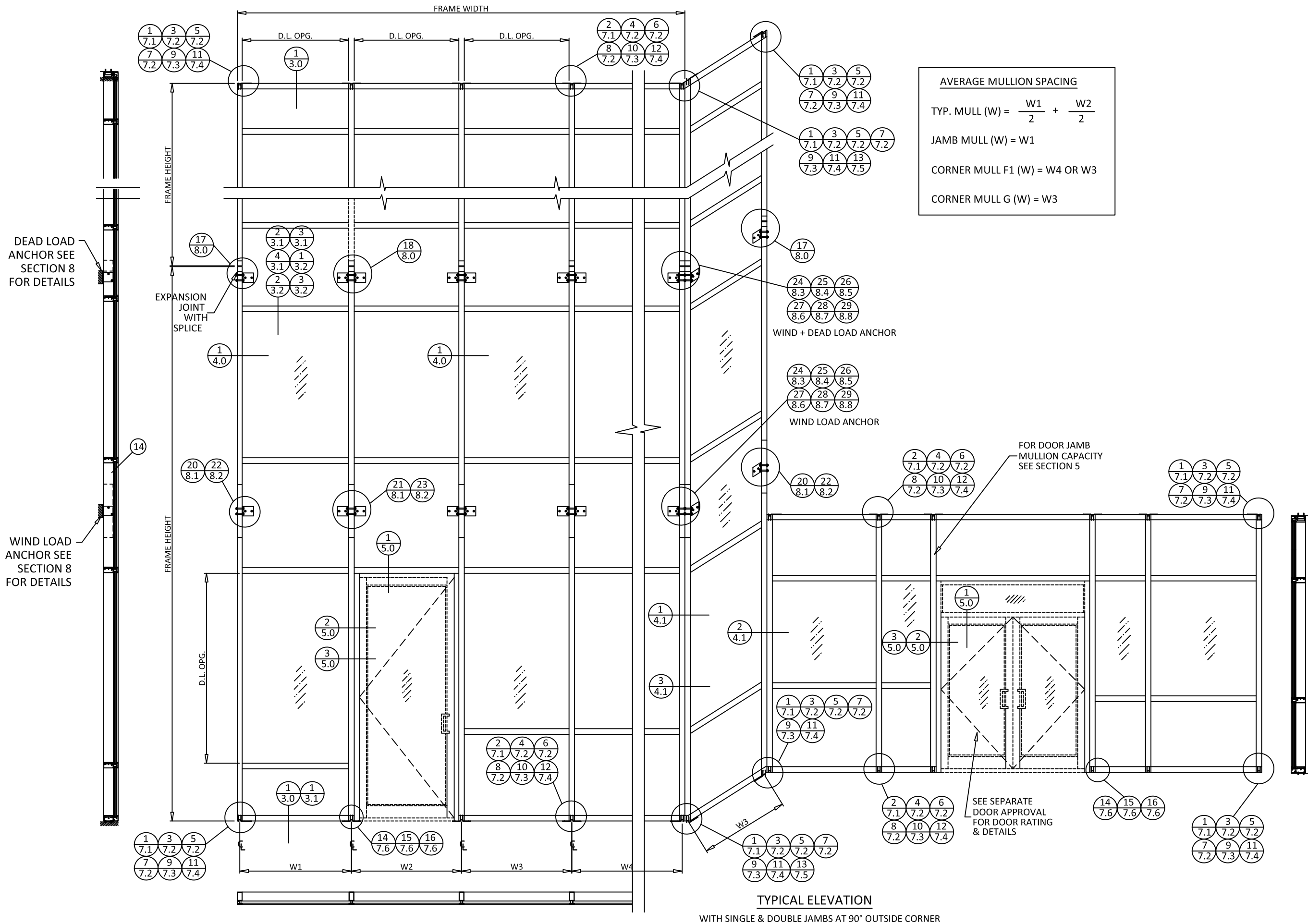
DWG. #: **YKK251**

SECTION:

1.0

8/20/2020 10:53 PM

s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\1725556\dwgs\ykk 251 - fl17111 dwgs 1-6 & 9.dwg



YKK AP AMERICA

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

TITLE: YHC 300 SSG CASSETTE CURTAIN WALL SYSTEM - INSULATING GLASS (HVHZ) (IMPACT) ELEVATIONS

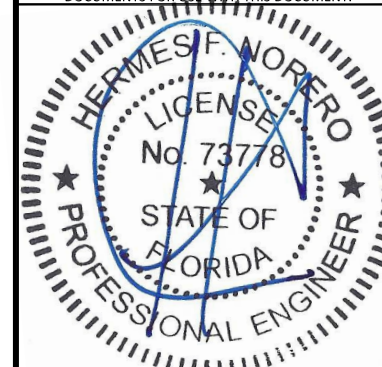
PREPARED BY: BUILDING DROPS, INC.

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.
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 #: FL25556

DATE: 12.06.17

DWG. BY: RV
CHK. BY: HFN

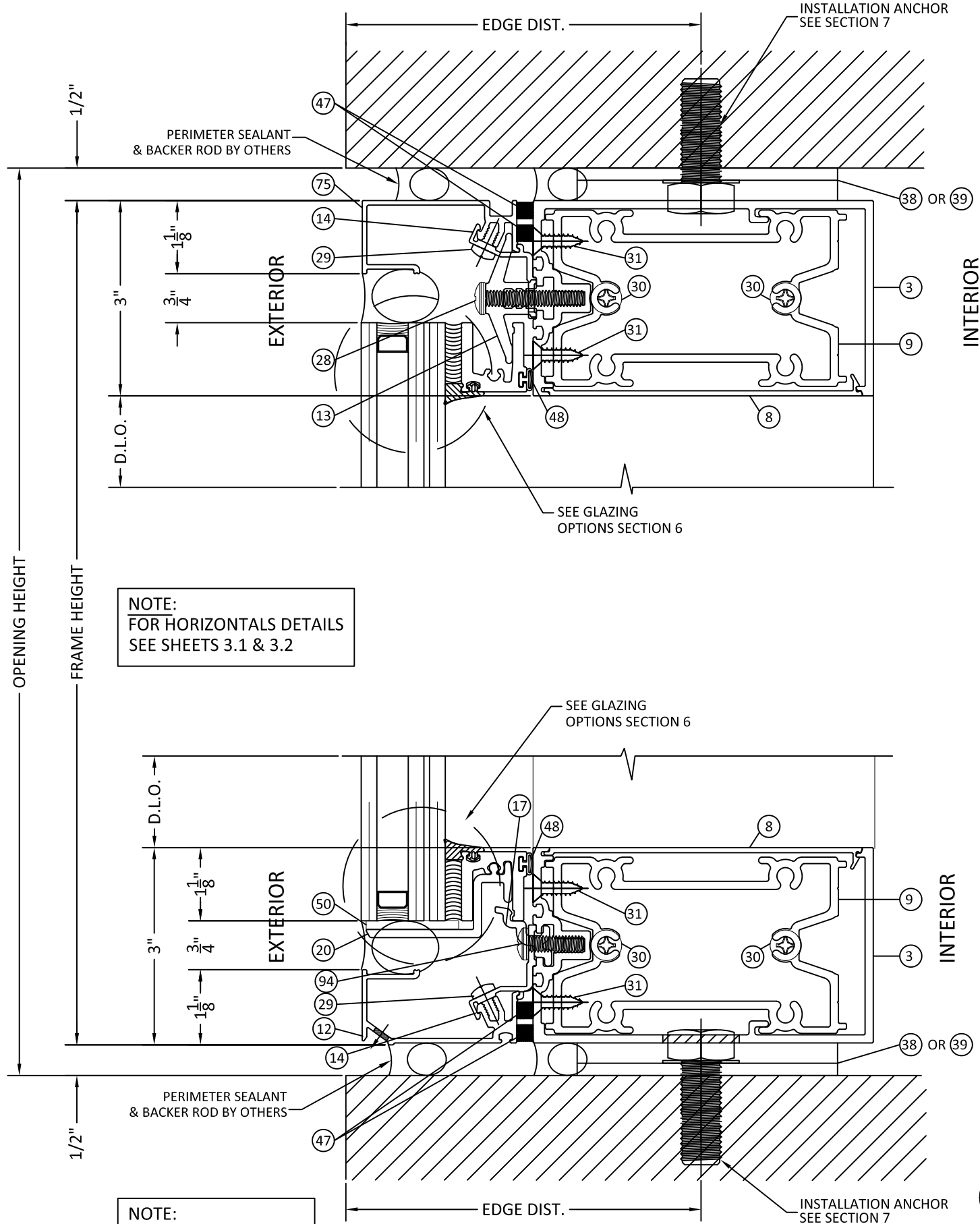
SCALE: NTS

DWG. #: YKK251

SECTION:

2.0

[SHEET 2 OF 38]



NOTE:
FOR HORIZONTALS DETAILS
SEE SHEETS 3.1 & 3.2

NOTE:
FOR ADDITIONAL SILL
DETAILS SEE SHEET 3.1

WEEPHOLES:
W1 = 5/16" DIA. WEEP HOLES TWO PER D.L. OPNG.
= AT 1/4 POINTS FROM VERTICALS (ONLY AT SILL)
W2 = 5/16" DIA. WEEP HOLES THREE PER LITE
= AT 3" FROM VERTICALS AND CENTER OF D.L. OPNG.

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

NOTE:
SOLID SHIM UP TO 1/4" MAY BE USED BETWEEN
ANCHOR & SUBSTRATE INCREASING THE CAULK
JOINT TO 1" ALLOWABLE UNDER THIS
CONDITION.

"HORIZONTAL MULLIONS (+/- PSF)"	
"WIDTH, W (in.) 'Span'"	"EXT. (+) INT. (-)"
60	90

- STANDARD DUTY HORIZONTAL MULLION NOTES:**
1. CHART IS BASED ON TWO SETTING BLOCKS (E2-0513)
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.

**1
3.0**

VERTICAL SECTION
STANDARD HEAD & SILL
INSULATING GLASS



YKK AP AMERICA

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

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
VERTICAL 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.
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 #:
FL25556

DATE: **12.06.17**

DWG. BY:
RV

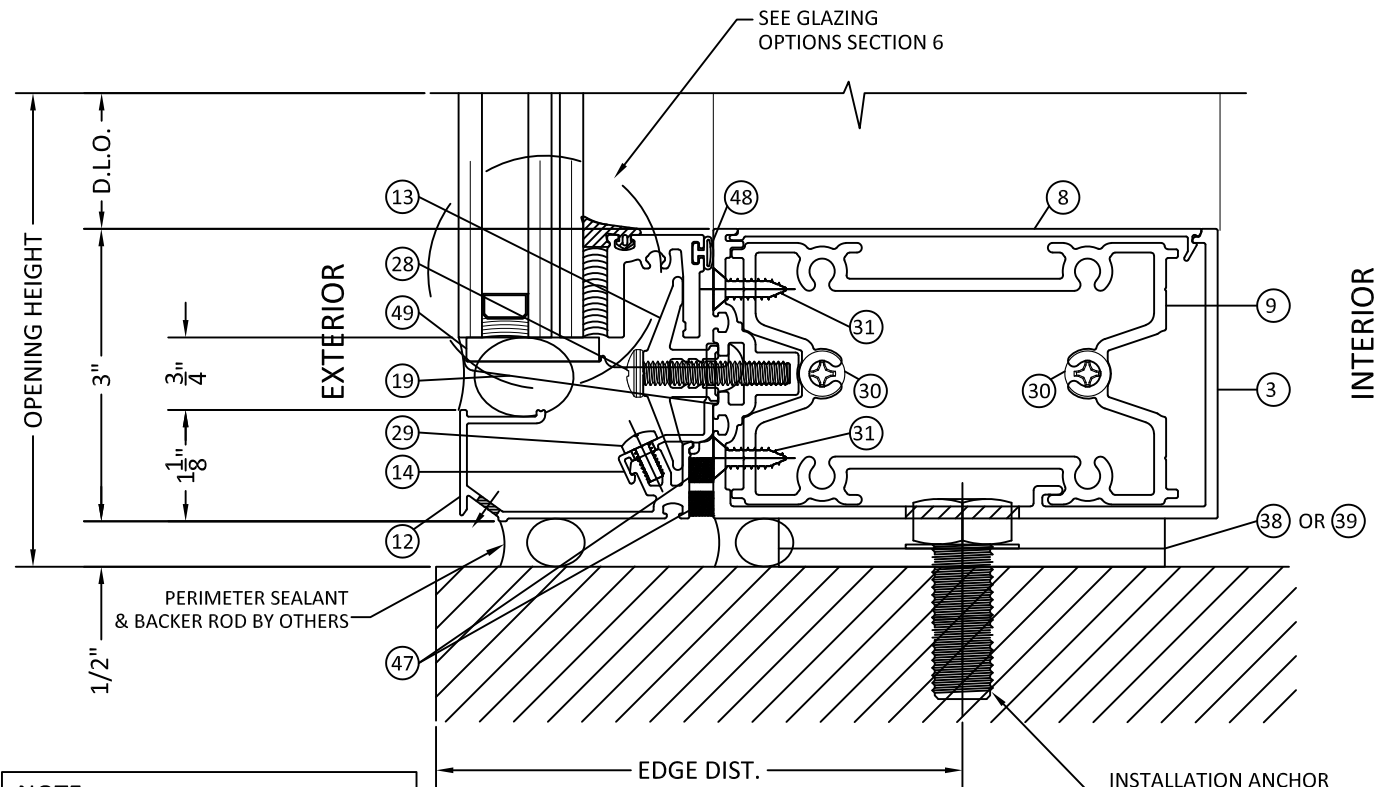
CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **YKK251**

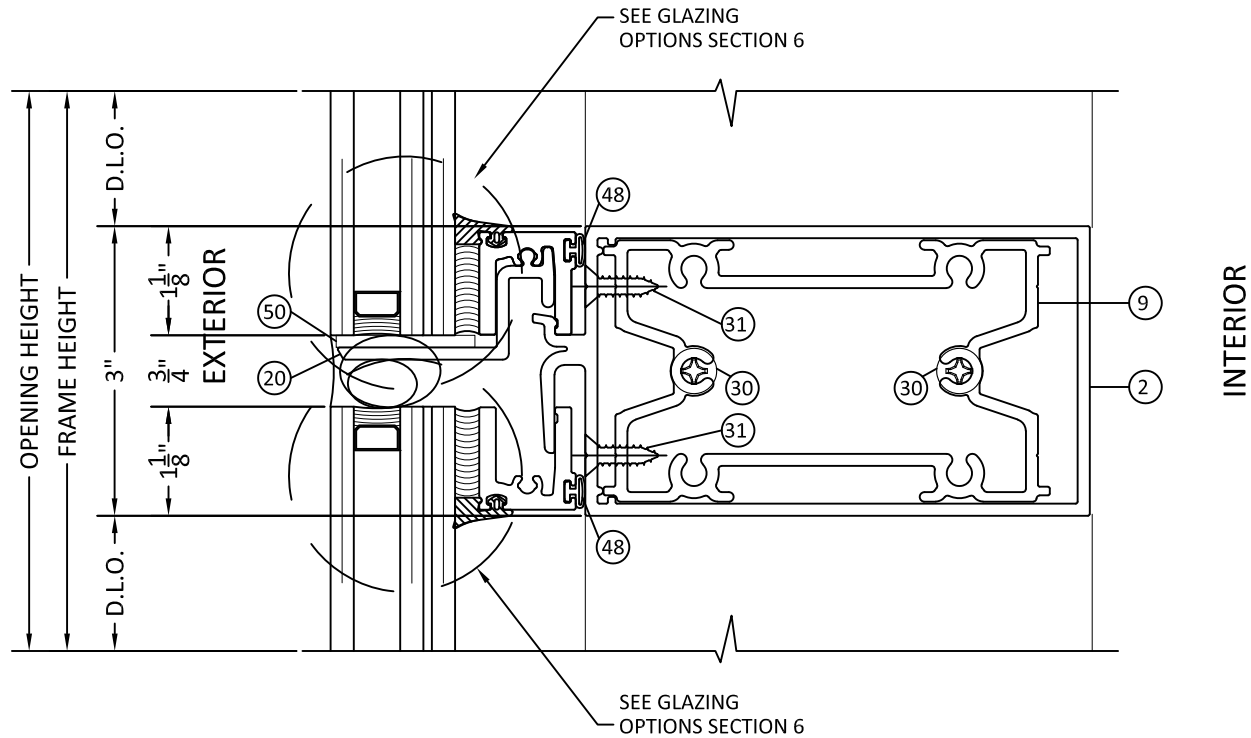
SECTION:

3.0

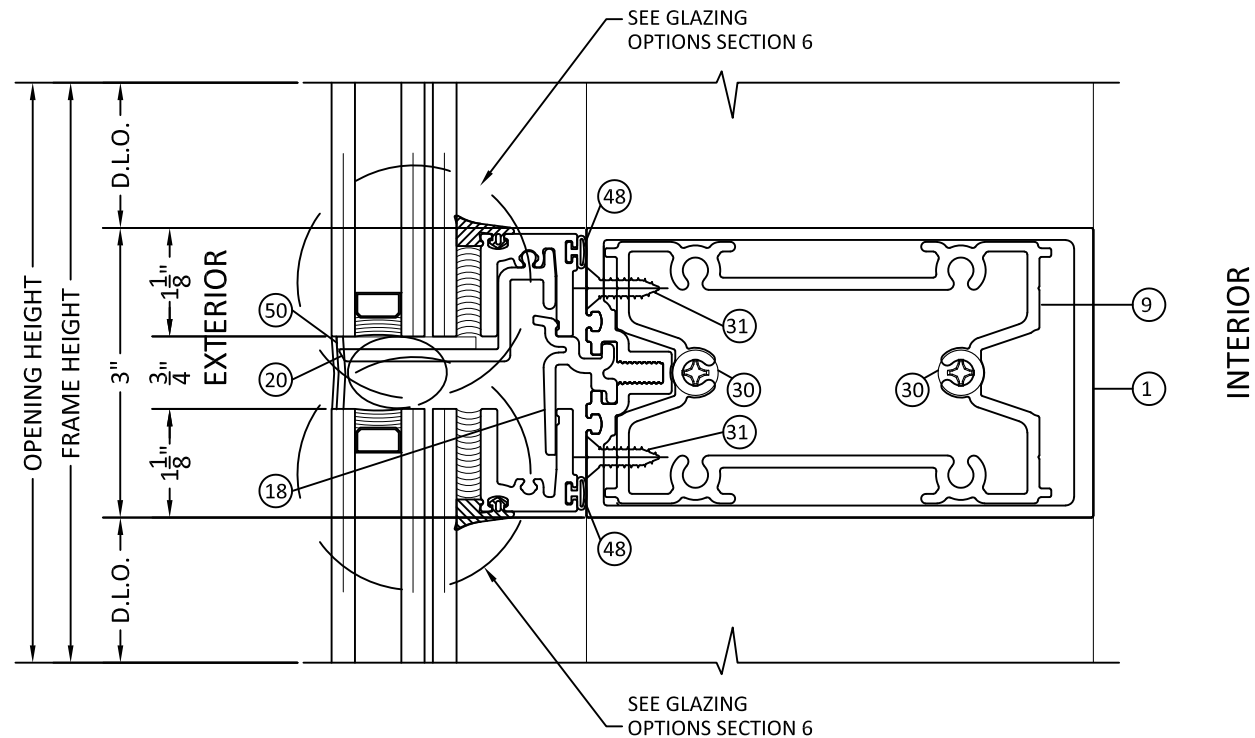


NOTE:
CONSULT ENGINEER ON GLASS
WEIGHT WHEN USING TOGGLES
& E1-3050 SETTING BLOCK CHAIR
AT THE HORIZONTAL & SILL

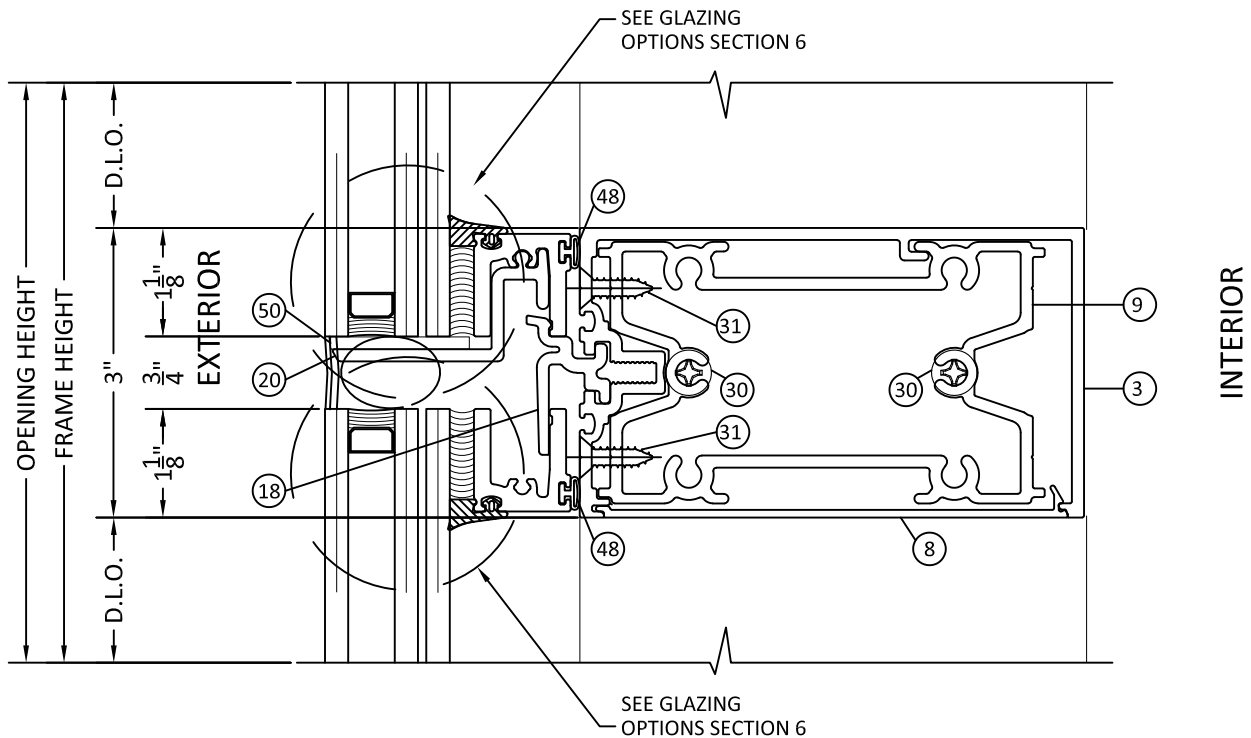
1
3.1 **VERTICAL SECTION**
OPTIONAL SILL WITH TOGGLE
INSULATING GLASS



3
3.1 **VERTICAL SECTION**
HORIZONTAL WITH INTEGRAL HOOK
INSULATING GLASS



2
3.1 **VERTICAL SECTION**
HORIZONTAL WITH SLIDE IN ADAPTOR
INSULATING GLASS



4
3.1 **VERTICAL SECTION**
2 PIECE HORIZONTAL WITH SLIDE IN ADAPTOR
INSULATING GLASS



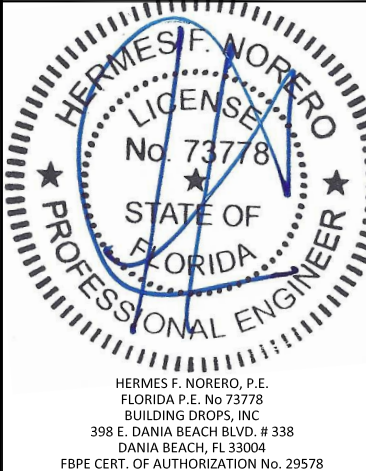
YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
VERTICAL 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

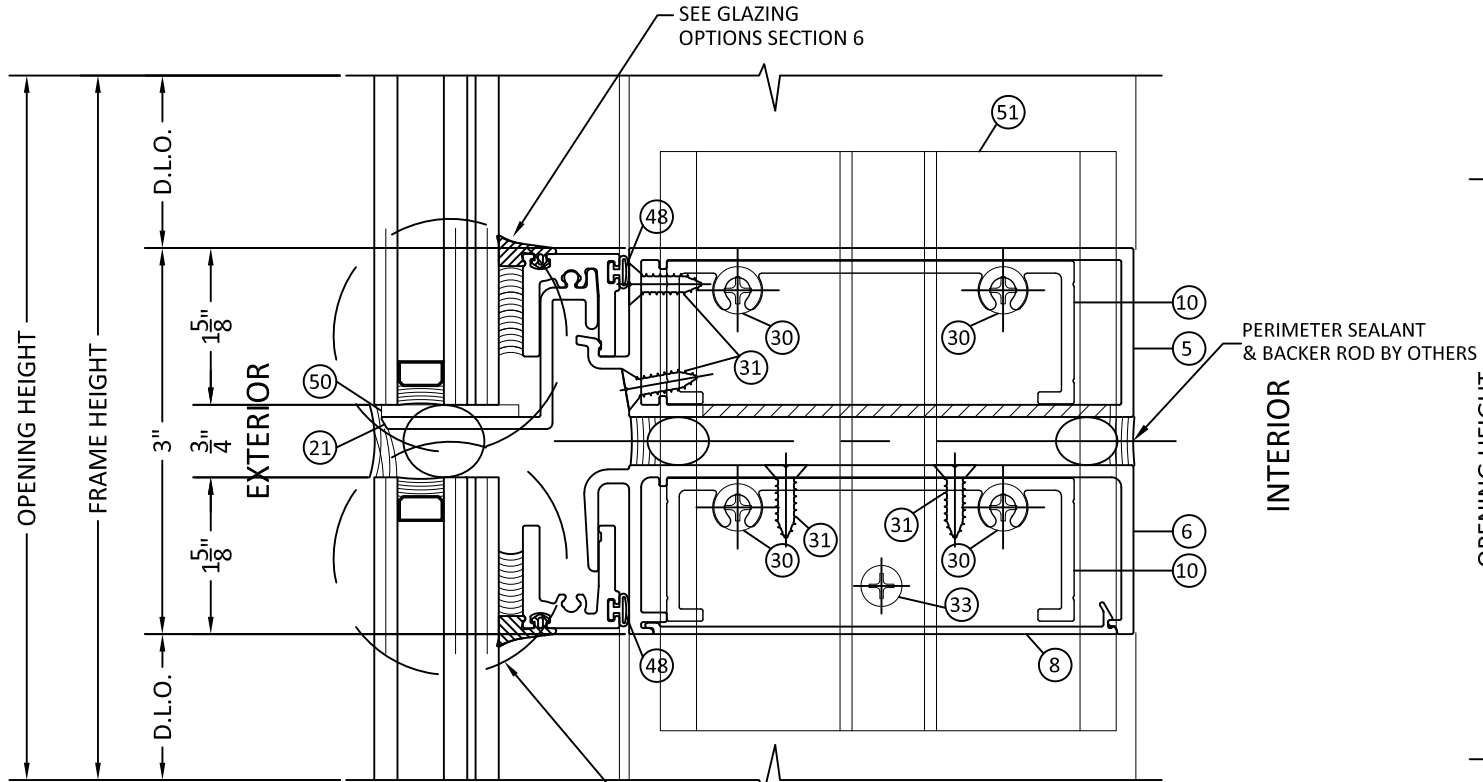
REMARKS	BY	DATE

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.

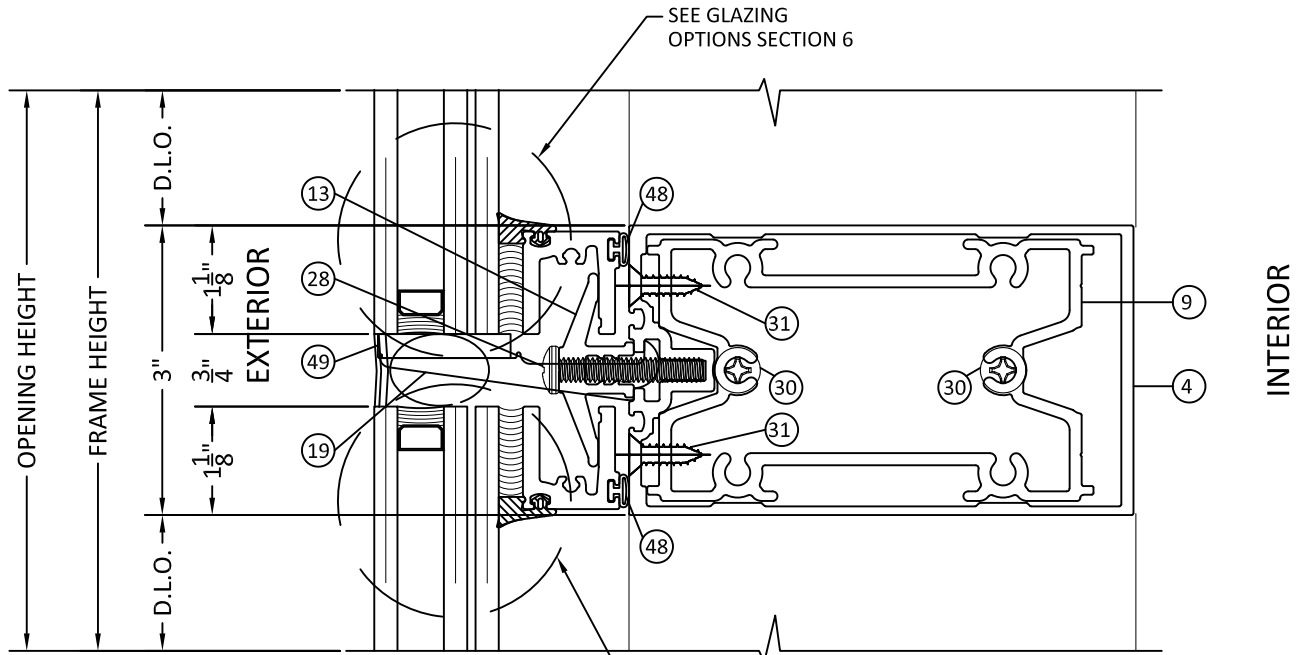


HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL25556
DATE:	12.06.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK251
SECTION:	3.1

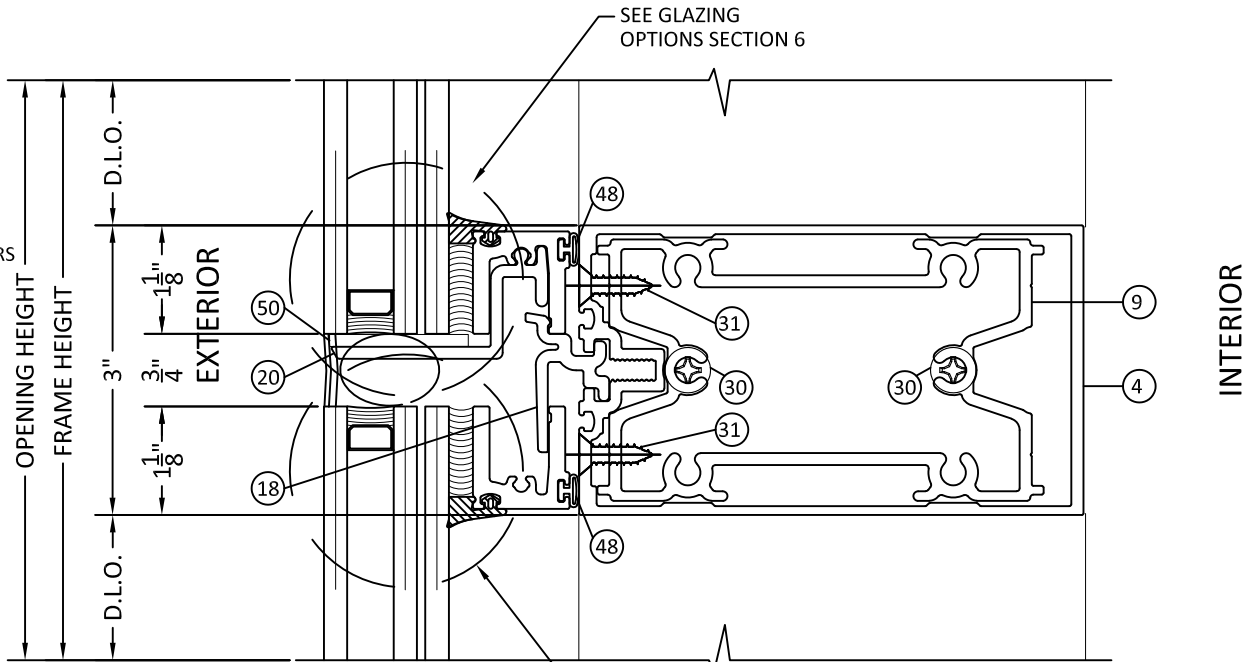


1
3.2 VERTICAL SECTION
EXPANSION HORIZONTAL
INSULATING GLASS



2
3.2 VERTICAL SECTION
OPTIONAL HORIZONTAL WITH TOGGLE
INSULATING GLASS

NOTE:
CONSULT ENGINEER ON GLASS
WEIGHT WHEN USING TOGGLES
& E1-3050 SETTING BLOCK CHAIR
AT THE HORIZONTAL & SILL



3
3.2 VERTICAL SECTION
HORIZONTAL WITH SLIDE IN ADAPTER
INSULATING GLASS



YKK AP AMERICA

1229 HWY 441 BYPASS

DUBLIN, GEORGIA 31021

PH: (478)277-1955 FAX: (678)838-6001

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
VERTICAL 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.

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 #:

FL25556

DATE: 12.06.17

DWG. BY:
RV

CHK. BY:
HFN

SCALE: NTS

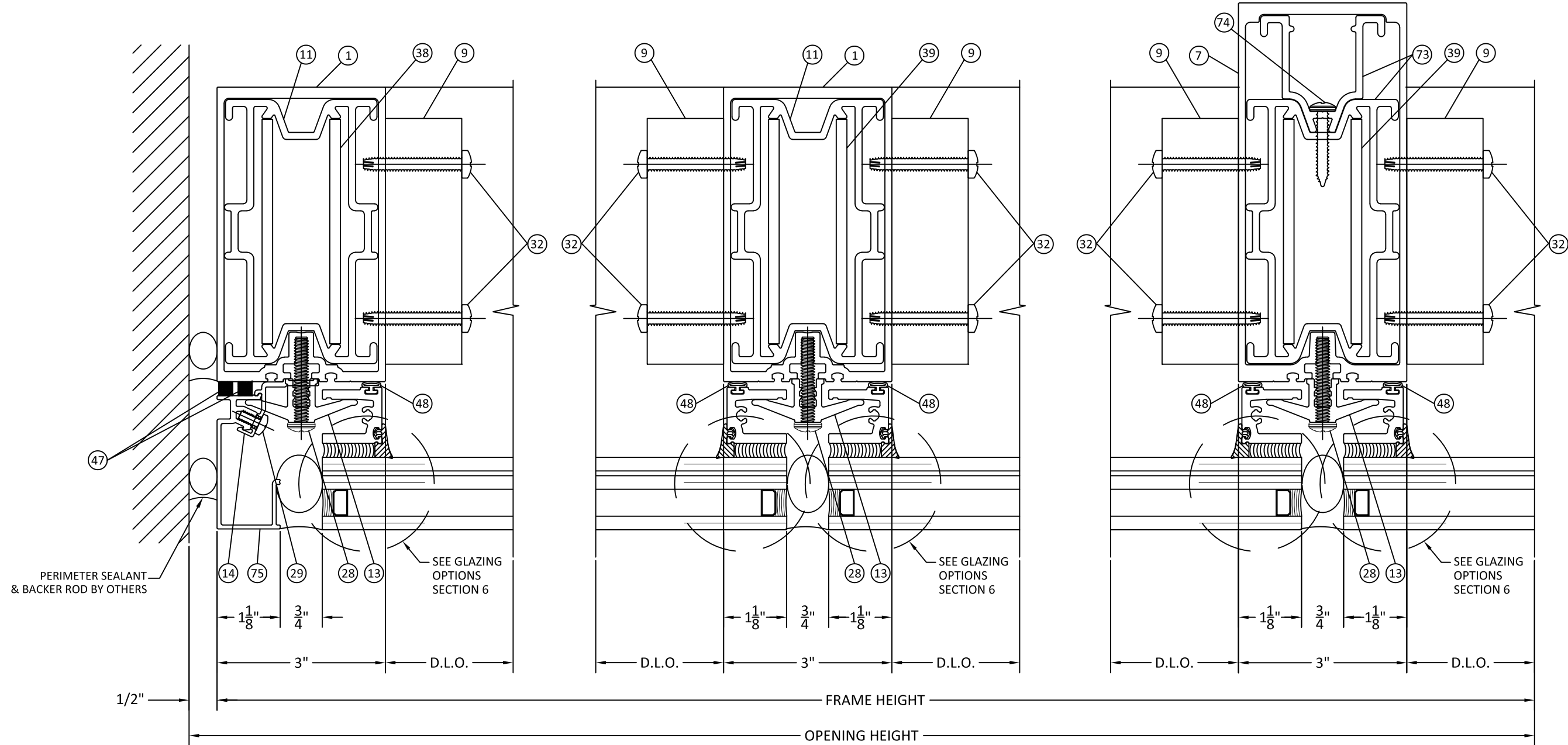
DWG. #: YKK251

SECTION:

3.2

8/20/2020 10:53 PM

s:\projects\ykk.ap.america, inc.\cc-20-0238 fbc submittal - fbc 2020 code change\fl25556\dwgs\ykk 251 - fl17111 dwgs 1-6 & 9.dwg



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

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

1 4.0 HORIZONTAL SECTION STANDARD DUTY MULLION INSULATING GLASS



YKK AP AMERICA

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

TITLE: YKC 300 SSG CASSETTE CURTAIN WALL SYSTEM - INSULATING GLASS (HVHZ) (IMPACT)

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.
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 #: FL25556

DATE: 12.06.17

DWG. BY: RV

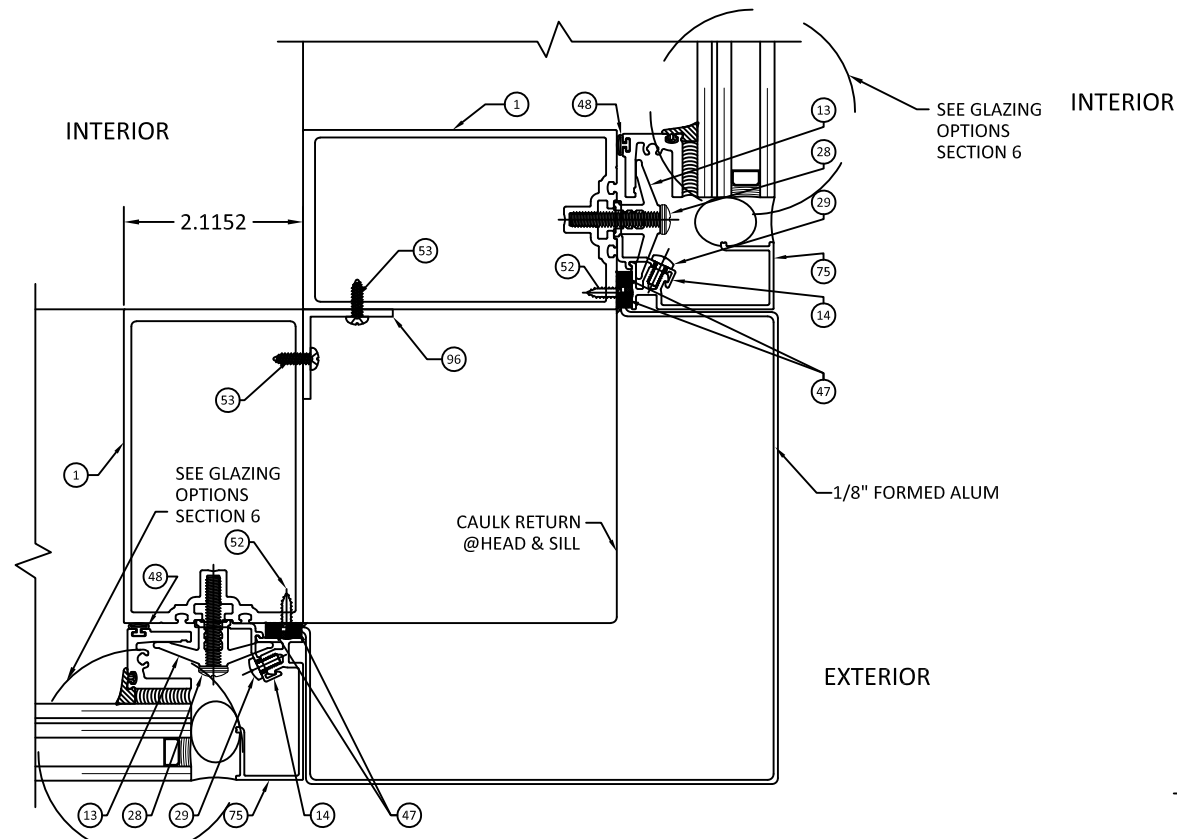
CHK. BY: HFN

SCALE: NTS

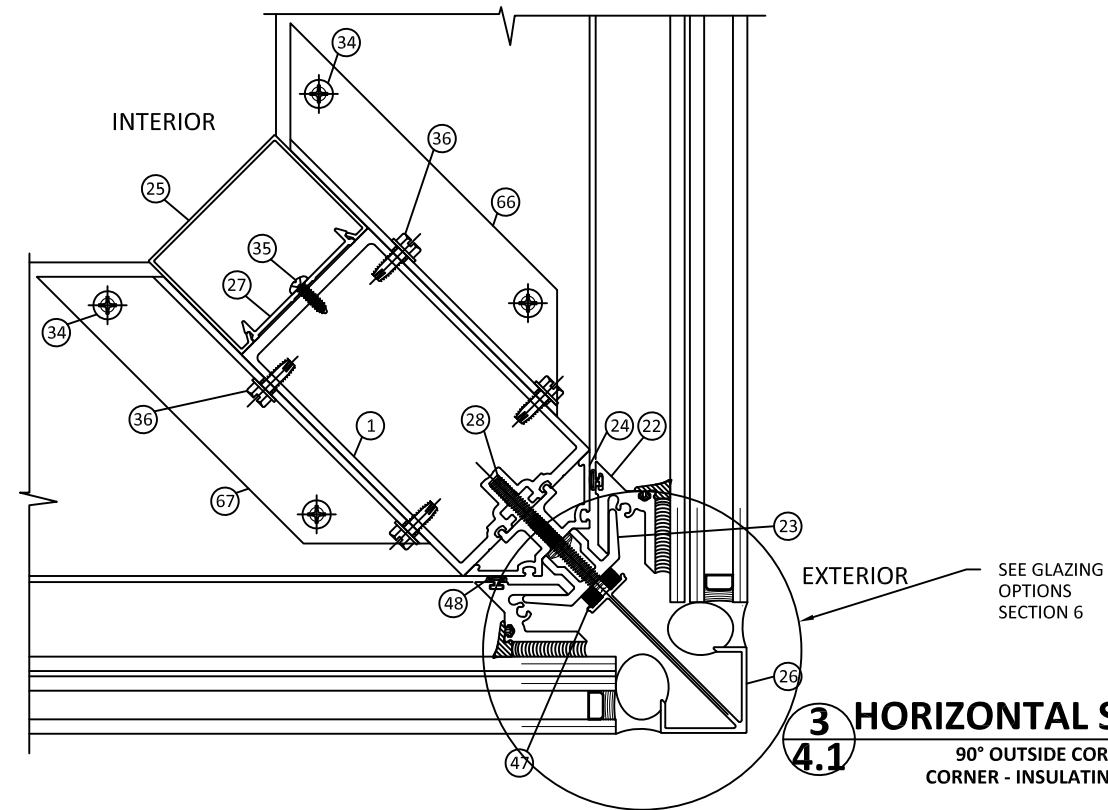
DWG. #: YKK251

SECTION:

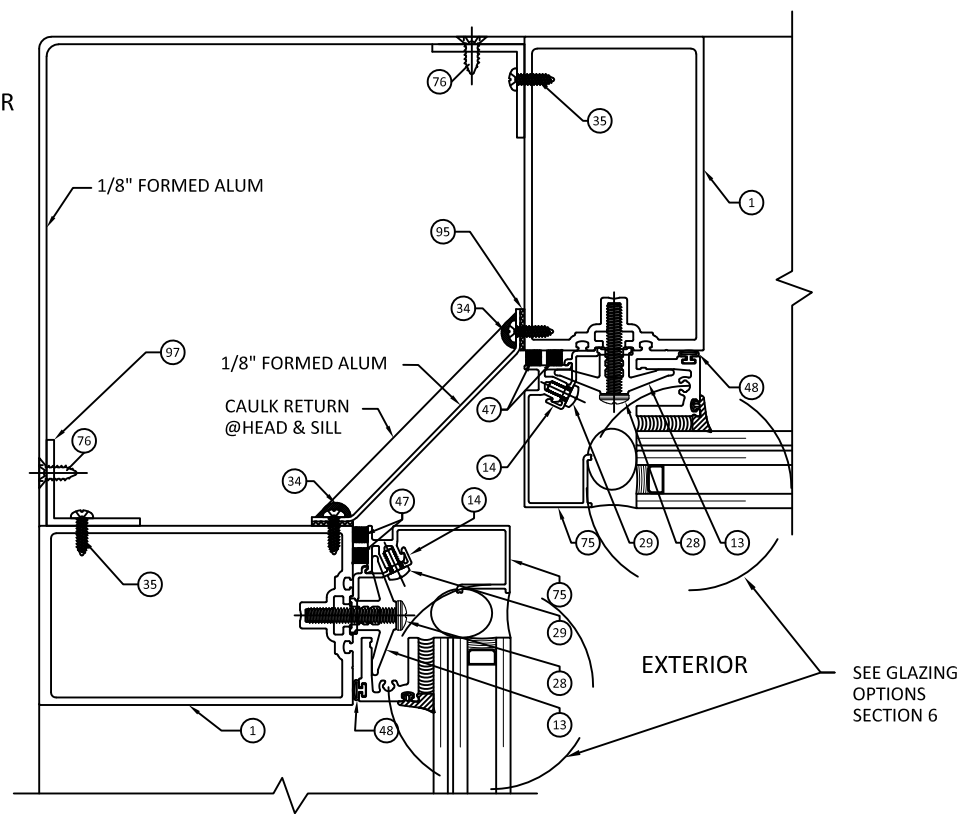
4.0



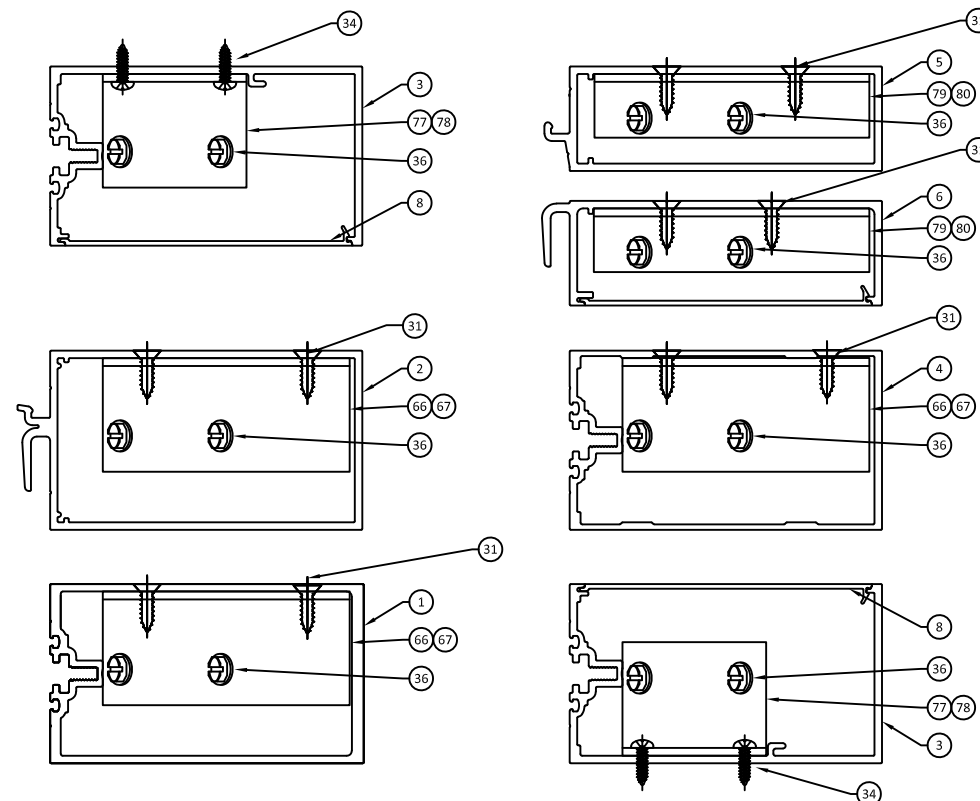
1 HORIZONTAL SECTION
4.1 90° OUTSIDE CORNER
INSULATING GLASS



3 HORIZONTAL SECTION
4.1 90° OUTSIDE CORNER
CORNER - INSULATING GLASS



2 HORIZONTAL SECTION
4.1 90° INSIDE CORNER
INSULATING GLASS



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



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

TITLE: YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)

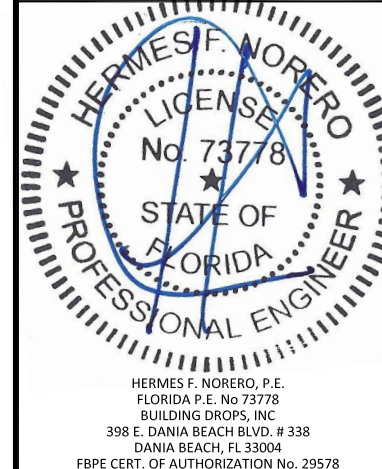
HORIZONTAL DETAILS-CORNERS

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

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.
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 #: **FL25556**

DATE: **12.06.17**

DWG. BY:
RV

CHK. BY:
HFN

SCALE: **NTS**

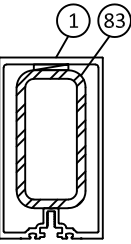
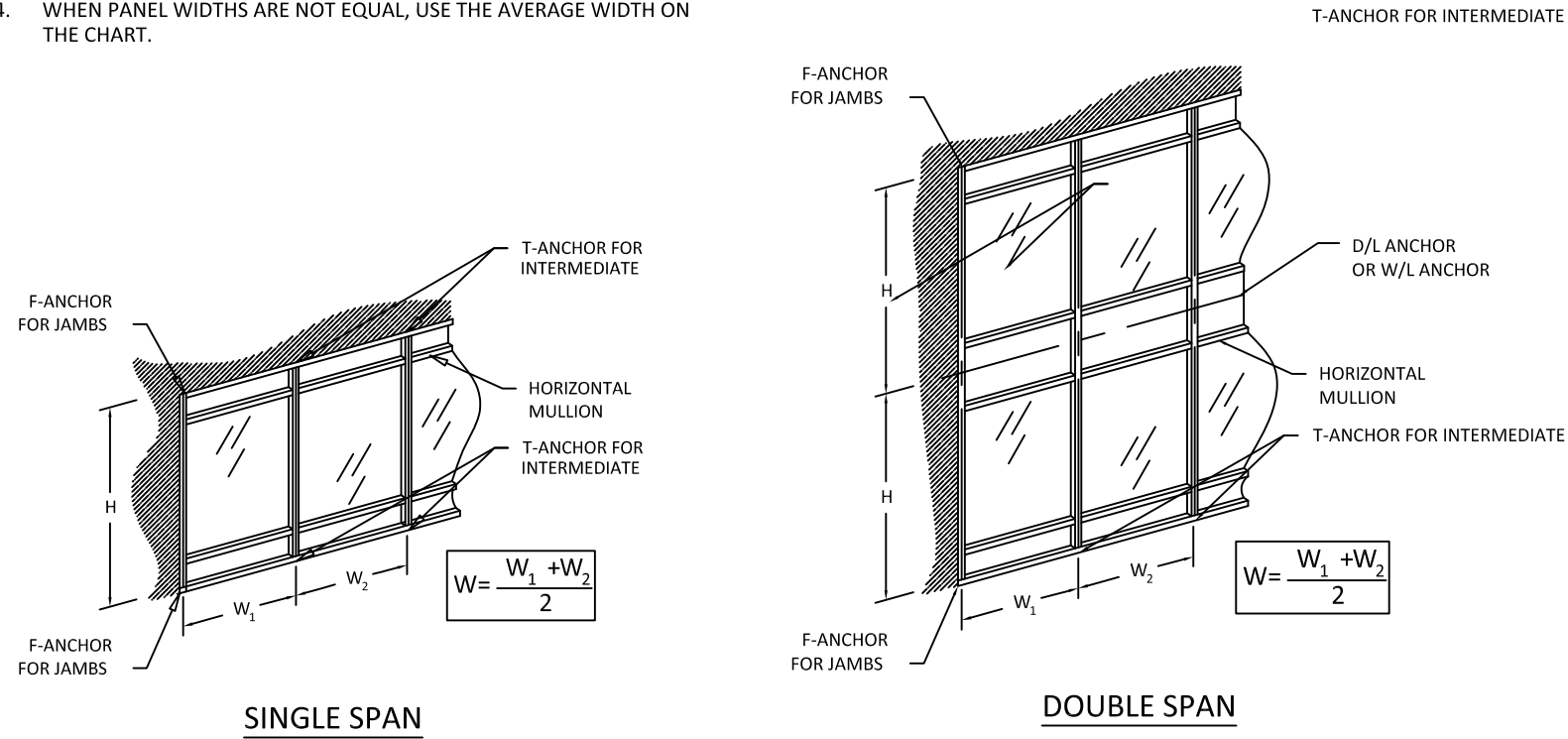
DWG. #: **YKK251**

SECTION:

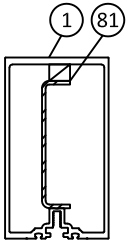
4.1

MULLION CAPACITY CHARTS

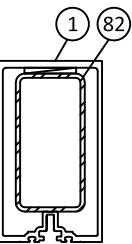
- NOTES
- 1. DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION. CAPACITY PER CURRENT FBC SPECIFICATIONS FOR HVHZ.
 - 2. SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.
 - 3. FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.
 - 4. WHEN PANEL WIDTHS ARE NOT EQUAL, USE THE AVERAGE WIDTH ON THE CHART.



MULLION 'M1'
REINFORCING LENGTH =
FRAME HEIGHT - 12 IN.



JAMB 'J1'
REINFORCING LENGTH =
FRAME HEIGHT - 84 IN.



JAMB 'J2'
REINFORCING LENGTH =
FRAME HEIGHT - 48 IN.

- * NOTE:
- 1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-04 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
 - 2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
 - 3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
 - 4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

JAMB/MULLION LOAD CAPACITY - Single Span (+/- PSF)			
NOMINAL DIMS.		J1 & J2	M1
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36.0	78.0	70.0	70.0
42.0		70.0	70.0
48.0		70.0	70.0
54.0		70.0	70.0
60.0		70.0	70.0
66.0		70.0	70.0
72.0		70.0	70.0
36.0	84.0	70.0	70.0
42.0		70.0	70.0
48.0		70.0	70.0
54.0		70.0	70.0
60.0		70.0	70.0
66.0		70.0	70.0
72.0		70.0	70.0
36.0	90.0	70.0	70.0
42.0		70.0	70.0
48.0		70.0	70.0
54.0		70.0	70.0
60.0		70.0	70.0
66.0		70.0	70.0
72.0		70.0	70.0
36.0	96.0	70.0	70.0
42.0		70.0	70.0
48.0		70.0	70.0
54.0		70.0	70.0
60.0		70.0	70.0
66.0		70.0	70.0
72.0		67.0	70.0
36.0	102.0	70.0	70.0
42.0		70.0	70.0
48.0		70.0	70.0
54.0		70.0	70.0
60.0		70.0	70.0
66.0		64.7	70.0
72.0		59.3	70.0
36.0	108.0	70.0	70.0
42.0		70.0	70.0
48.0		70.0	70.0
54.0		70.0	70.0
60.0		63.5	70.0
66.0		57.8	70.0
72.0		52.9	70.0
36.0	114.0	70.0	70.0
42.0		70.0	70.0
48.0		70.0	70.0
54.0		63.3	70.0
60.0		57.0	70.0
66.0		51.8	70.0
72.0		47.5	70.0

JAMB/MULLION LOAD CAPACITY - Single Span (+/- PSF)			
NOMINAL DIMS.		J1 & J2	M1
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36.0	120.0	70.0	70.0
42.0		70.0	70.0
48.0		64.3	70.0
54.0		57.2	70.0
60.0		51.5	70.0
66.0		46.8	70.0
72.0		42.9	70.0
36.0	126.0	70.0	70.0
42.0		66.7	70.0
48.0		58.3	70.0
54.0		51.9	70.0
60.0		46.7	70.0
66.0		42.4	70.0
72.0		38.9	70.0
36.0	132.0	70.0	70.0
42.0		60.8	70.0
48.0		53.2	70.0
54.0		47.3	70.0
60.0		42.5	70.0
66.0		38.7	70.0
72.0		35.4	70.0
36.0	138.0	64.8	70.0
42.0		55.6	70.0
48.0		48.6	70.0
54.0		43.2	70.0
60.0		38.9	70.0
66.0		35.4	70.0
72.0		32.4	70.0
36.0	145.5	58.3	70.0
42.0		50.0	70.0
48.0		43.8	70.0
54.0		38.9	70.0
60.0		35.0	70.0
66.0		31.8	70.0
72.0		29.2	66.6

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

TITLE: YHC 300 SSG CASSETTE CURTAIN WALL SYSTEM - INSULATING GLASS (HVHZ) (IMPACT)

MULLION CAPACITY CHART

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

REMARKS

BY

DATE

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

HERMES F. NORERO, P.E.
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 #:

FL25556

DATE:

12.06.17

DWG. BY:

RV

CHK. BY:

HFN

SCALE:

NTS

DWG. #:

YKK251

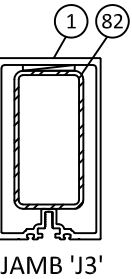
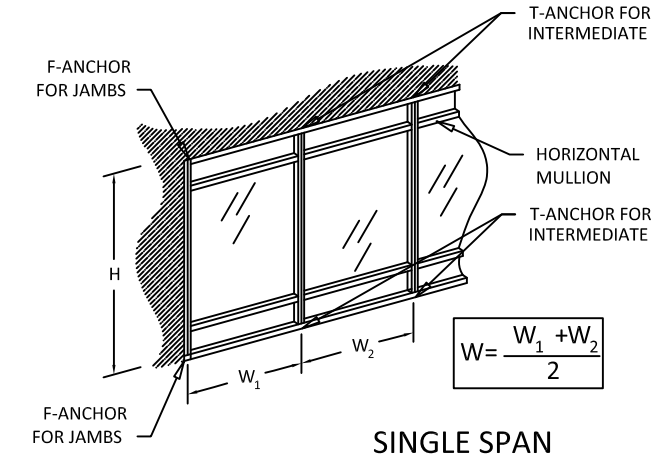
SECTION:

4.2

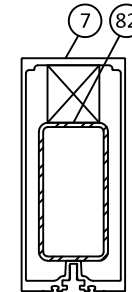
[SHEET 8 OF 38]

MULLION CAPACITY CHARTS

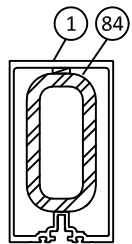
- NOTES
- DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION. CAPACITY PER CURRENT FBC SPECIFICATIONS FOR HVHZ.
 - SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.
 - FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.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



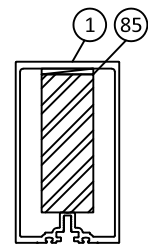
REINFORCING LENGTH = FRAME HEIGHT - 54 IN.



REINFORCING LENGTH = 60 IN. AT CENTER



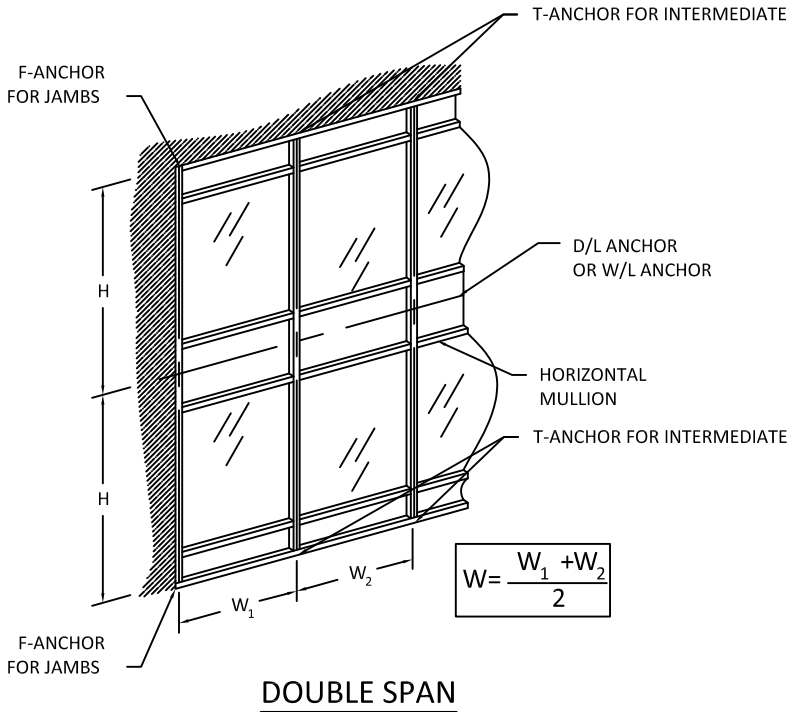
REINFORCING LENGTH = FRAME HEIGHT - 24 IN.



REINFORCING LENGTH = FRAME HEIGHT - 24 IN.

- * NOTE:
- GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-04 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
 - SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
 - SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
 - D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

SINGLE SPAN TABLES



DOUBLE SPAN

JAMB/MULLION LOAD CAPACITY - Single Span (+/- PSF)					
NOMINAL DIMS.		J3	M2	M3	M4
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36.0	78.0	90.0	90.0	90.0	90.0
42.0		90.0	90.0	90.0	90.0
48.0		90.0	90.0	90.0	90.0
54.0		90.0	90.0	90.0	90.0
60.0		90.0	90.0	90.0	90.0
66.0		90.0	90.0	90.0	90.0
72.0		90.0	90.0	90.0	90.0
36.0	84.0	90.0	90.0	90.0	90.0
42.0		90.0	90.0	90.0	90.0
48.0		90.0	90.0	90.0	90.0
54.0		90.0	90.0	90.0	90.0
60.0		90.0	90.0	90.0	90.0
66.0		90.0	90.0	90.0	90.0
72.0		90.0	90.0	90.0	90.0
36.0	90.0	90.0	90.0	90.0	90.0
42.0		90.0	90.0	90.0	90.0
48.0		90.0	90.0	90.0	90.0
54.0		90.0	90.0	90.0	90.0
60.0		90.0	90.0	90.0	90.0
66.0		90.0	90.0	90.0	90.0
72.0		90.0	90.0	90.0	90.0
36.0	96.0	90.0	90.0	90.0	90.0
42.0		90.0	90.0	90.0	90.0
48.0		90.0	90.0	90.0	90.0
54.0		90.0	90.0	90.0	90.0
60.0		90.0	90.0	90.0	90.0
66.0		90.0	90.0	90.0	90.0
72.0		90.0	90.0	90.0	90.0
36.0	102.0	90.0	90.0	90.0	90.0
42.0		90.0	90.0	90.0	90.0
48.0		90.0	90.0	90.0	90.0
54.0		90.0	90.0	90.0	90.0
60.0		90.0	90.0	90.0	90.0
66.0		90.0	90.0	90.0	90.0
72.0		90.0	90.0	90.0	90.0
36.0	108.0	90.0	90.0	90.0	90.0
42.0		90.0	90.0	90.0	90.0
48.0		90.0	90.0	90.0	90.0
54.0		90.0	90.0	90.0	90.0
60.0		90.0	90.0	90.0	90.0
66.0		90.0	90.0	90.0	90.0
72.0		87.3	90.0	90.0	90.0
36.0	114.0	90.0	90.0	90.0	90.0
42.0		90.0	90.0	90.0	90.0
48.0		90.0	90.0	90.0	90.0
54.0		90.0	90.0	90.0	90.0
60.0		90.0	90.0	90.0	90.0
66.0		85.5	90.0	90.0	90.0
72.0		78.4	90.0	90.0	90.0

JAMB/MULLION LOAD CAPACITY - Single Span (+/- PSF)					
NOMINAL DIMS.		J3	M2	M3	M4
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36.0	120.0	90.0	90.0	90.0	90.0
42.0		90.0	90.0	90.0	90.0
48.0		90.0	90.0	90.0	90.0
54.0		90.0	90.0	90.0	90.0
60.0		84.9	90.0	90.0	90.0
66.0		77.2	90.0	90.0	90.0
72.0		70.8	90.0	90.0	90.0
36.0	126.0	90.0	90.0	90.0	90.0
42.0		90.0	90.0	90.0	90.0
48.0		90.0	90.0	90.0	90.0
54.0		85.6	90.0	90.0	90.0
60.0		77.0	90.0	90.0	90.0
66.0		70.0	90.0	90.0	90.0
72.0		64.2	90.0	90.0	90.0
36.0	132.0	90.0	90.0	90.0	90.0
42.0		90.0	90.0	90.0	90.0
48.0		87.7	90.0	90.0	90.0
54.0		78.0	90.0	90.0	90.0
60.0		70.2	90.0	90.0	90.0
66.0		63.8	90.0	90.0	90.0
72.0		58.5	90.0	90.0	90.0
36.0	138.0	90.0	90.0	90.0	90.0
42.0		90.0	90.0	90.0	90.0
48.0		80.2	90.0	90.0	90.0
54.0		71.3	90.0	90.0	90.0
60.0		64.2	90.0	90.0	90.0
66.0		58.4	90.0	90.0	90.0
72.0		53.5	83.4	83.4	90.0
36.0	145.5	90.0	90.0	90.0	90.0
42.0		82.5	90.0	90.0	90.0
48.0		72.2	90.0	90.0	90.0
54.0		64.2	90.0	90.0	90.0
60.0		57.8	90.0	90.0	90.0
66.0		52.5	81.8	81.8	90.0
72.0		48.1	75.0	75.0	85.6



YKK AP AMERICA

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

TITLE: YHC 300 SSG CASSETTE CURTAIN WALL SYSTEM - INSULATING GLASS (HVHZ) (IMPACT)

CORNER MULLION DETAILS

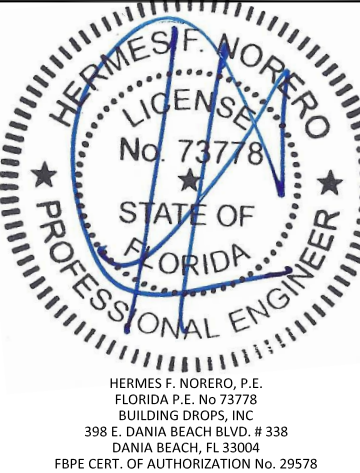
PREPARED BY: BUILDING DROPS, INC.

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.



FL #:

FL25556

DATE: 12.06.17

DWG. BY: RV

CHK. BY: HFN

SCALE: NTS

DWG. #: YKK251

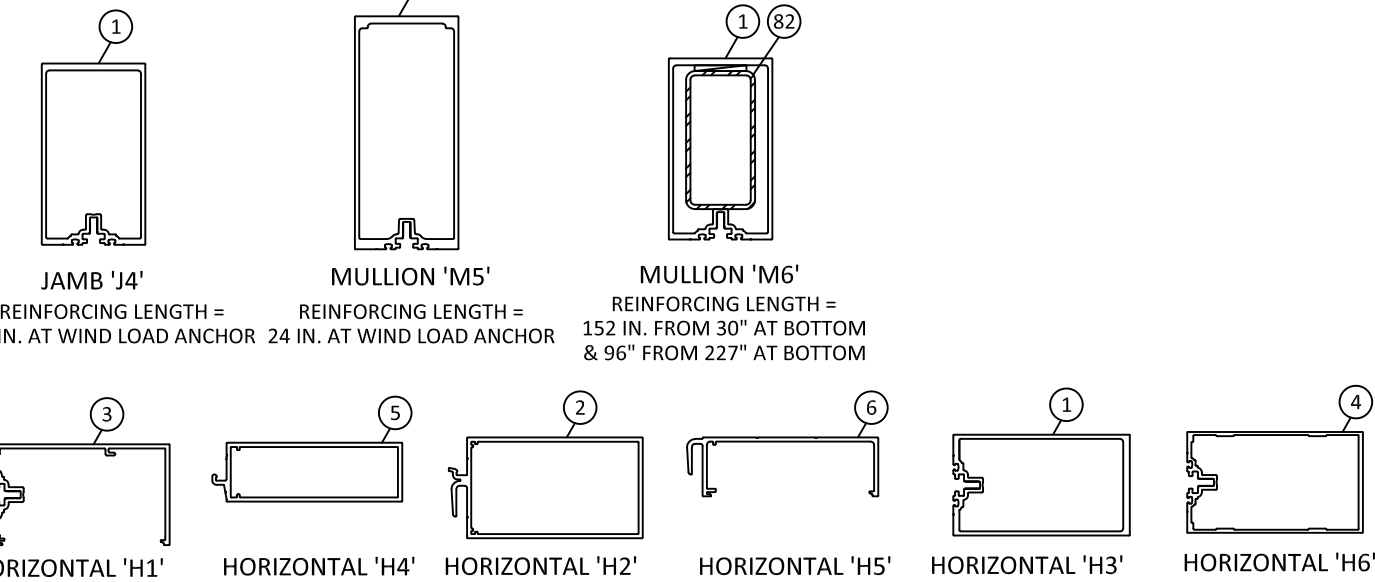
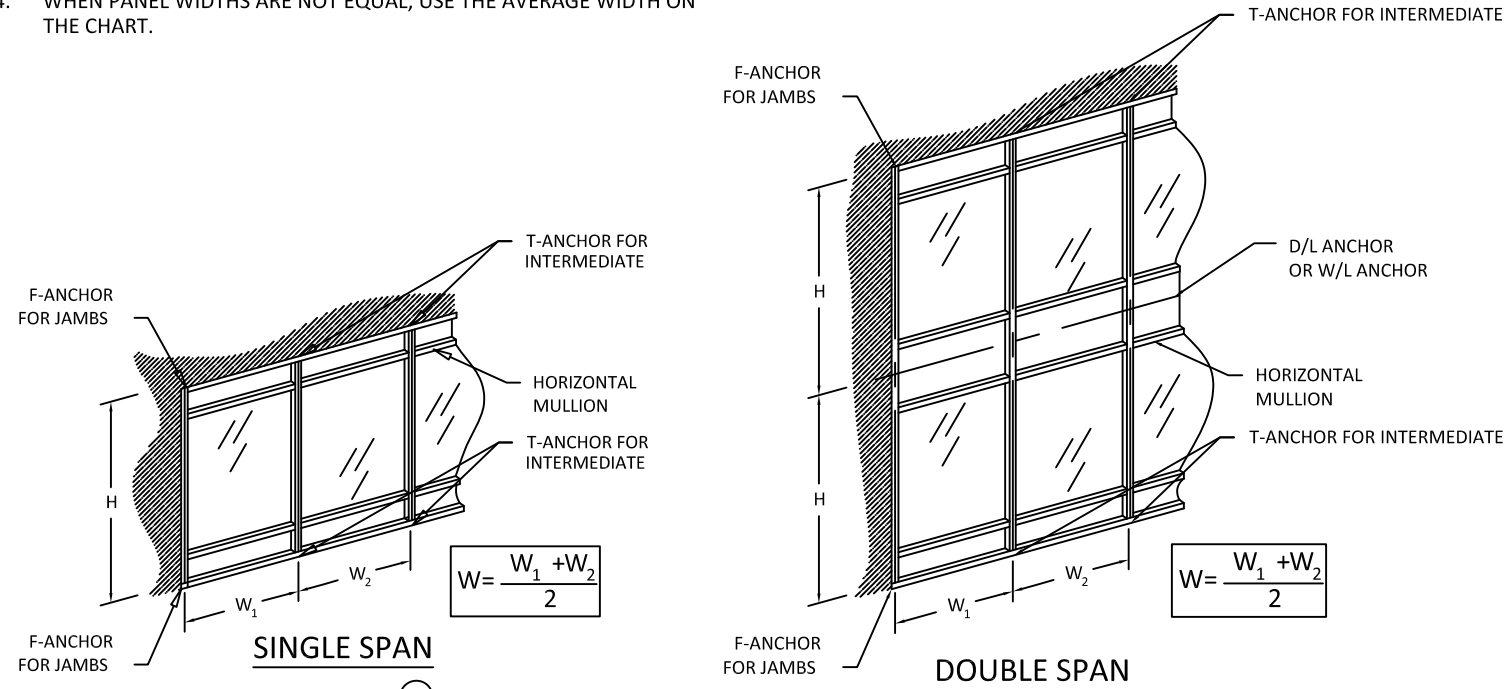
SECTION:

4.3

[SHEET 9 OF 38]

MULLION CAPACITY CHARTS

- NOTES
- 1. DESIGN PRESSURES ARE LIMITED BY THE MULLION FIBERSTRESS AND DEFLECTION - CAPACITY PER CURRENT FBC SPECIFICATIONS FOR HVHZ
 - 2. SELECT DESIGN PRESSURE AND PANEL WIDTH (W) AND OBTAIN THE MAXIMUM ALLOWABLE DESIGN PRESSURE FOR MULLION.
 - 3. FOR HORIZONTAL MULLIONS CAPACITY, SEE HORIZONTAL MULLION CHART.
 - 4. WHEN PANEL WIDTHS ARE NOT EQUAL, USE THE AVERAGE WIDTH ON THE CHART.



* NOTE:
HORIZONTALS SHOWN ARE REFERENCED FROM SECTION 4.2 THRU SECTION 4.4

- * NOTE:
- 1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-04 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
 - 2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
 - 3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
 - 4. D.L.O. MAY NOT EXCEED MAX DIMENSIONS IN GLASS CHARTS FOR GLASS TYPE.

JAMB/MULLION LOAD CAPACITY - Twin Span (+/- PSF)				
NOMINAL DIMS.		J4	M5	M6
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	126	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	132	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	138	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	145	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		88.1	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		90.0	90.0	90.0
72		88.1	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		90.0	90.0	90.0
66		88.3	90.0	90.0
72		80.9	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		90.0	90.0	90.0
60		90.0	90.0	90.0
66		80.8	90.0	90.0
72		74.1	90.0	90.0

JAMB/MULLION LOAD CAPACITY - Twin Span (+/- PSF)				
NOMINAL DIMS.		J3	M5	M6
WIDTH 'W' (in.)	SPAN HEIGHT 'H' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	174	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		88.9	90.0	90.0
66		72.5	90.0	90.0
72		66.5	90.0	90.0
36	180	90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		88.7	90.0	90.0
60		79.8	90.0	90.0
66		72.5	90.0	90.0
72		66.5	90.0	90.0
36	186	90.0	90.0	90.0
42		90.0	90.0	90.0
48		89.1	90.0	90.0
54		79.2	90.0	90.0
60		71.3	90.0	90.0
66		64.8	90.0	90.0
72		59.4	90.0	90.0
36	192	90.0	90.0	90.0
42		90.0	90.0	90.0
48		79.9	90.0	90.0
54		71.0	90.0	90.0
60		63.9	90.0	90.0
66		58.1	90.0	90.0
72		53.2	90.0	90.0
36	198	90.0	90.0	90.0
42		90.0	90.0	90.0
48		79.9	90.0	90.0
54		71.0	90.0	90.0
60		57.5	90.0	90.0
66		52.3	90.0	90.0
72		47.9	90.0	90.0
36	204	90.0	90.0	90.0
42		82.2	90.0	90.0
48		71.9	90.0	90.0
54		63.9	90.0	90.0
60		57.5	90.0	90.0
66		52.3	90.0	90.0
72		43.3	87.7	87.7

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

TITLE: YHC 300 SSG CASSETTE CURTAIN WALL SYSTEM - INSULATING GLASS (HVHZ) (IMPACT)
CORNER MULLION 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

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.
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 #:

FL25556

DATE: **12.06.17**

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

SCALE: **NTS**

DWG. #: **YKK251**

SECTION:

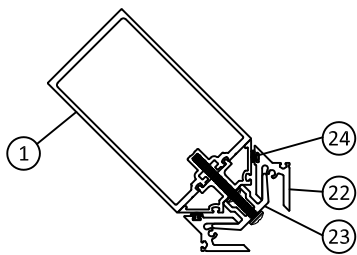
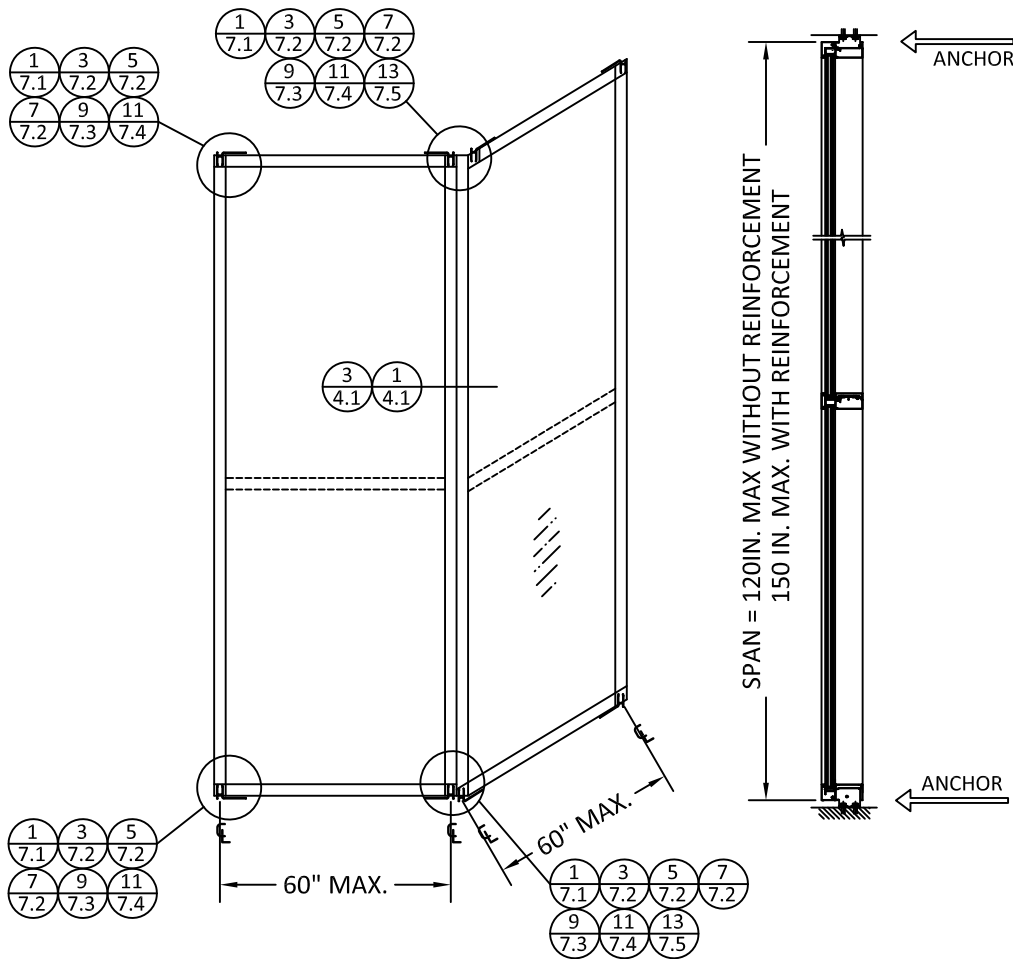
4.4

[SHEET 10 OF 38]

8/20/2020 10:54 PM

s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\fl25556\dwgs\ykk 251 - fl17111 dwgs 1-6 & 9.dwg

CORNER MULLION W/O REINFORCING
SINGLE SPAN WITH OR WITHOUT HORIZONTAL

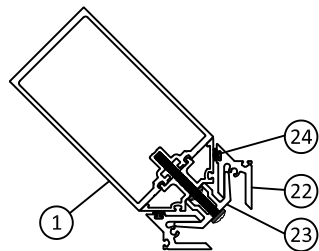
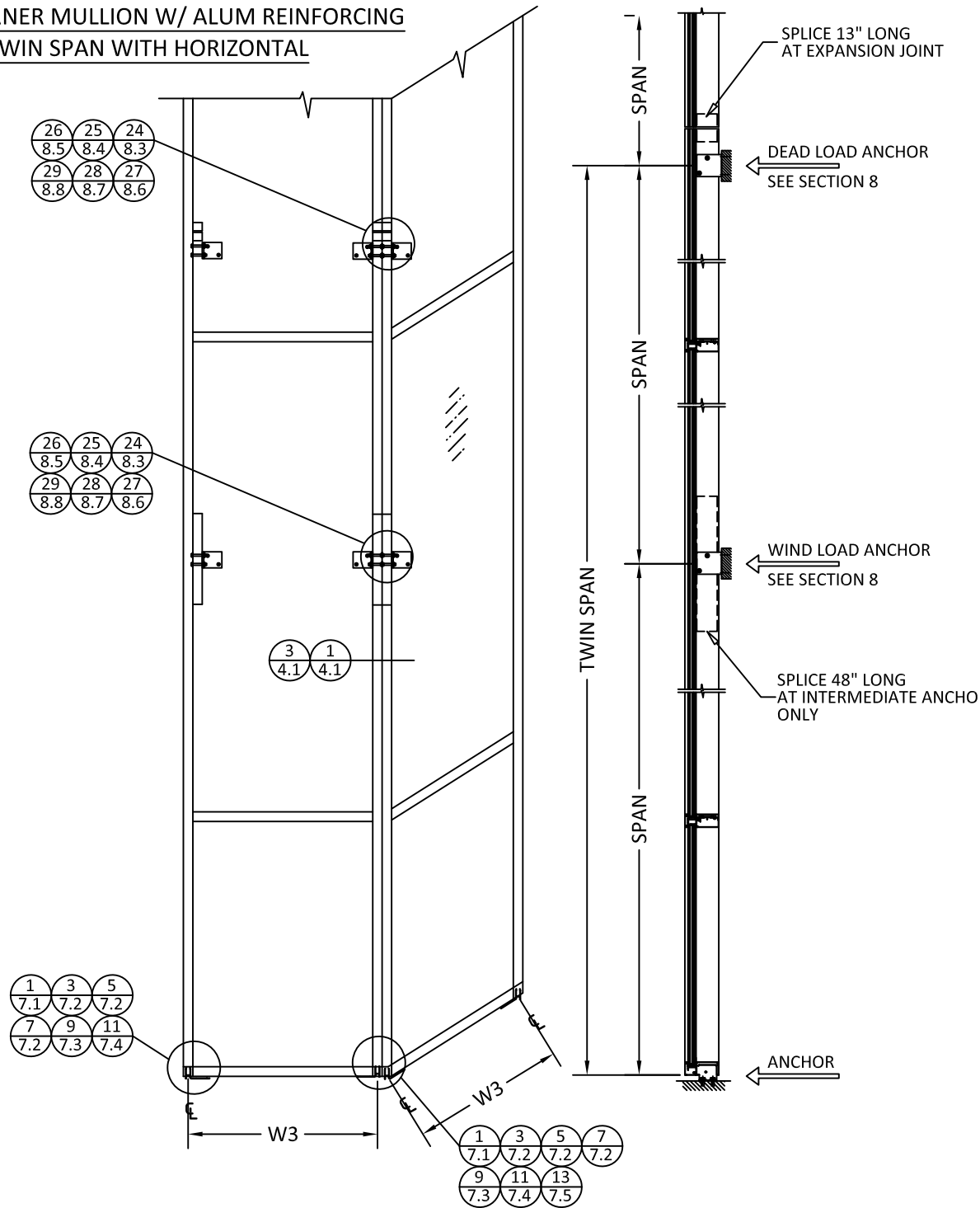


CORNER MULLION
W/ STEEL REINF.

WIDTH-W INCHES	FRAME HEIGHT INCHES	DP (+/- PSF)
60	150.5	90.0
66	138	90.0
72	120	90.0

NOTE:
USE 'F' ANCHOR CLIP AT JAMB AND
'T' ANCHOR CLIP AT MULLION SEE
SECTION 7 FOR DETAILS

CORNER MULLION W/ ALUM REINFORCING
TWIN SPAN WITH HORIZONTAL



CORNER MULLION
W/ STEEL SPLICE

WIDTH-W INCHES	FRAME HEIGHT INCHES	DP (+/- PSF)
60	150.5	90

NOTE:
USE 'F' ANCHOR CLIP AT JAMB AND
'T' ANCHOR CLIP AT MULLION SEE
SECTION 7 FOR DETAILS



YKK AP AMERICA

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

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)

CORNER MULLION 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.
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 #:
FL25556

DATE: **12.06.17**

DWG. BY:
RV

CHK. BY:
HFN

SCALE: **NTS**

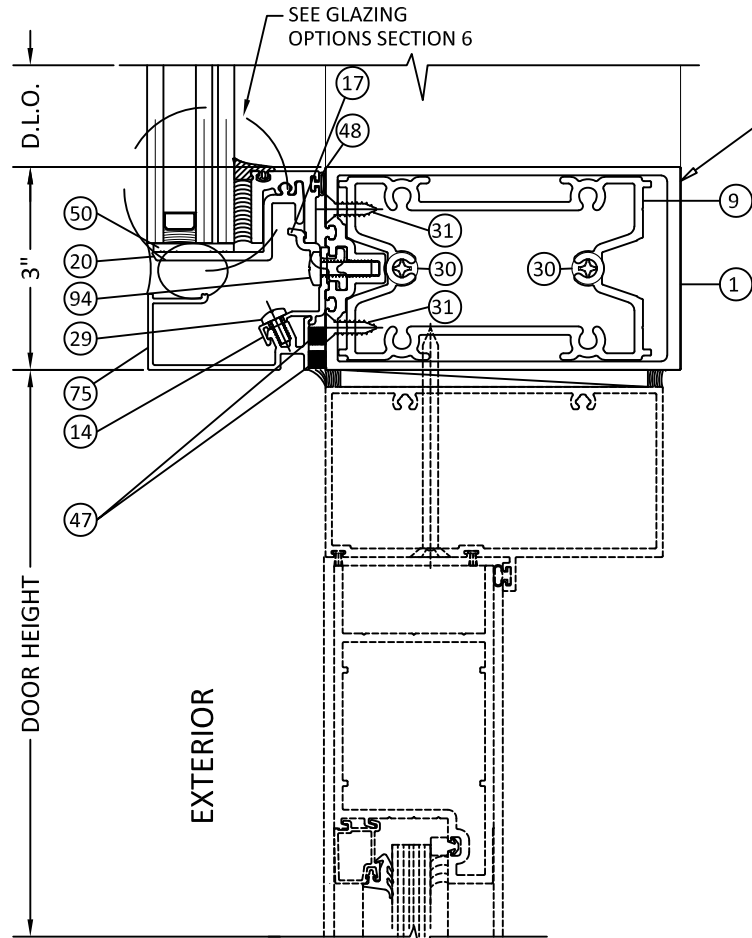
DWG. #: **YKK251**

SECTION:

4.5

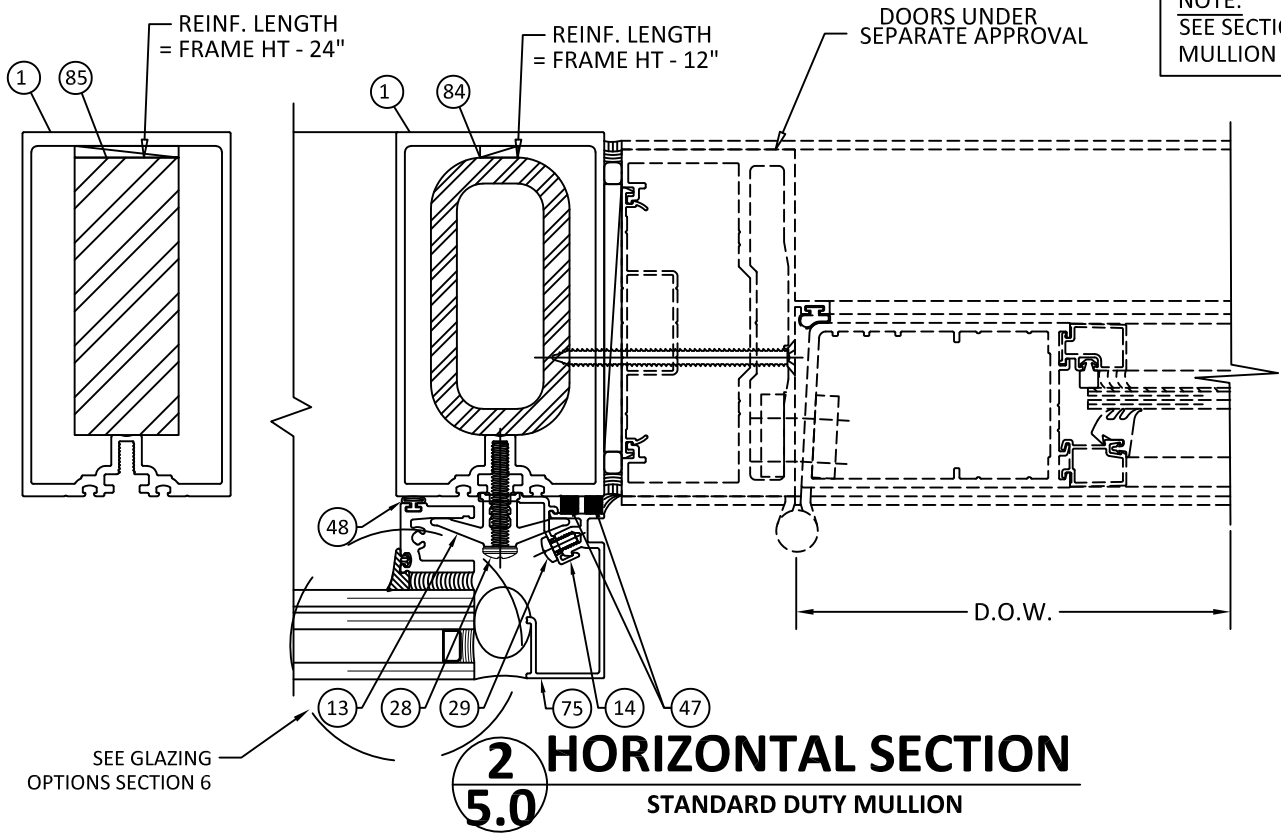
8/21/2020 7:09 PM

s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\fl25556\dwgs\ykk 251 - fl17111 dwgs 1-6 & 9.dwg



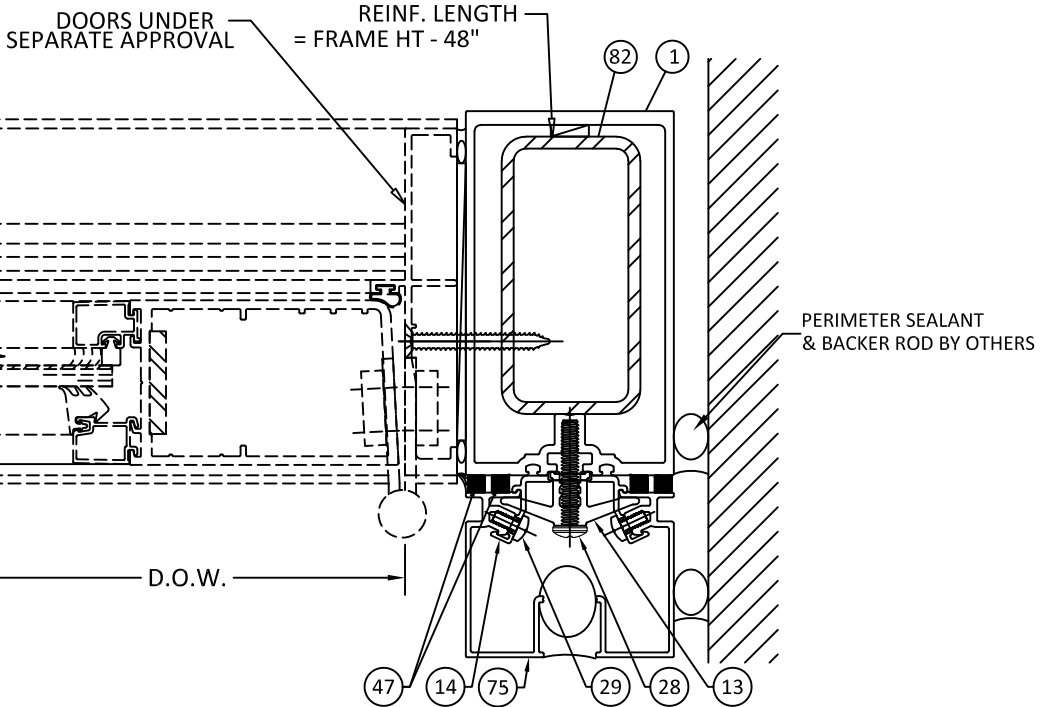
HORIZ. SPAN MAX.	DESIGN LOAD	
	W/O SPLICE REINF.	W/ SPLICE REINF.
97'-3/4"	43 PSF	80 PSF
85'-3/4"	58 PSF	90 PSF

1.0 HORIZONTAL SECTION
5.0 STANDARD DUTY MULLION

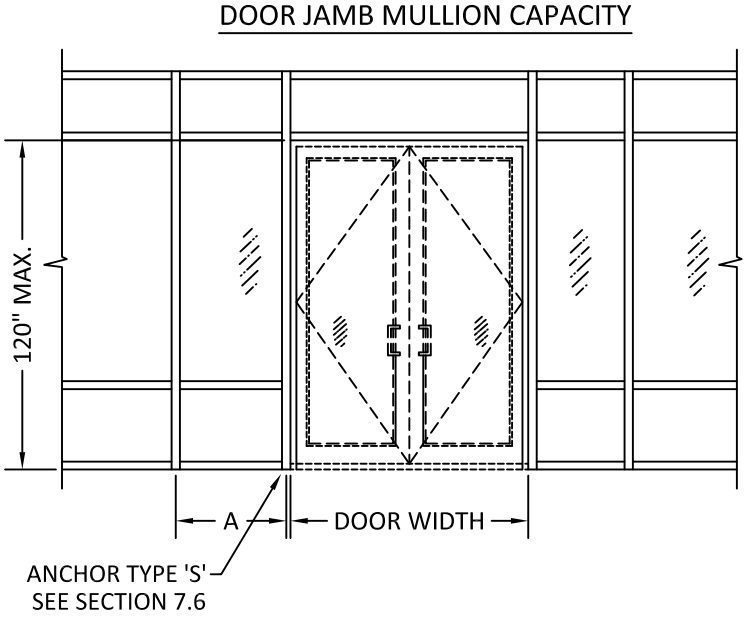


2.0 HORIZONTAL SECTION
5.0 STANDARD DUTY MULLION

NOTE:
SEE SECTION 4.3 FOR
MULLION DESIGN PRESSURES.



3.0 HORIZONTAL SECTION
5.0 STANDARD DUTY MULLION



MAX. DOOR OPNG. WIDTH	A/2	DP (+/- PSF)
96"	15"	90.0
84"	19"	90.0
72"	23"	90.0

NOTE:
FOR DOOR HEIGHT LESS THAN 120 IN. USE ABOVE TABLE.



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

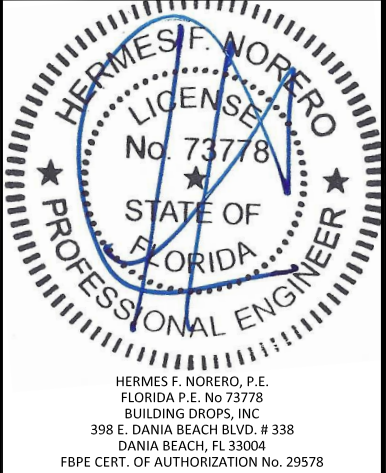
TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
DOOR DETAILS

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

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 #:
FL25556

DATE: **12.06.17**

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

SCALE: **NTS**

DWG. #: **YKK251**

SECTION:
5.0

[SHEET 12 OF 38]

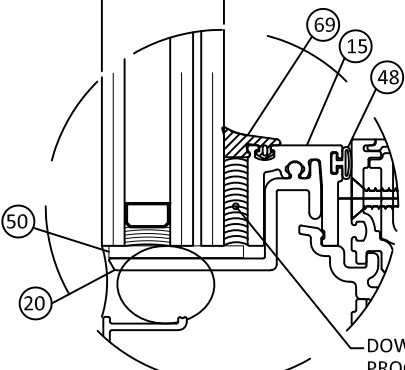
GLASS CAPACITY

- NOTES:
1. CHART VALUES PROVIDE MAXIMUM DESIGN PRESSURES ACCORDING TO ASTM E1300-09 FOR GIVEN GLASS DIMENSIONS 'a' AND 'b' (a > b), AND CH. 17 OF THE FBC FOR SIZES OTHER THAN TESTED
 2. DO NOT EXCEED MULLION CAPACITY SELECTED OR ANCHOR CAPACITY IN DESIGN PRESSURE CHARTS

GLAZING OPTIONS (90 PSF)

LARGE MISSILE IMPACT

1 5/16" O.A. I.G. CONSISTING OF:
1/4" HEAT STRENGTHENED
1/2" AIR SPACE
1/4" HEAT STRENGTHENED
.090" SENTRYGLAS BY KURARAY
1/4" HEAT STRENGTHENED

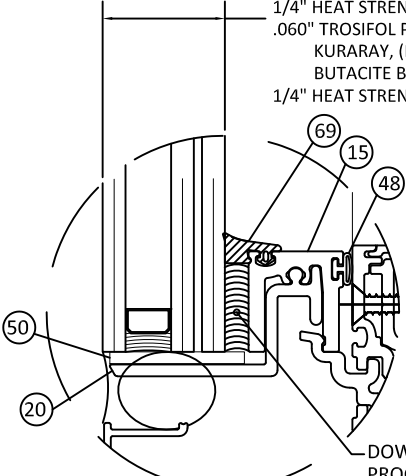


GLASS TYPE 'A'

DOW CORNING 995
PROGLAZE SSG
PROGLAZE II
PECORA 895

SMALL MISSILE IMPACT

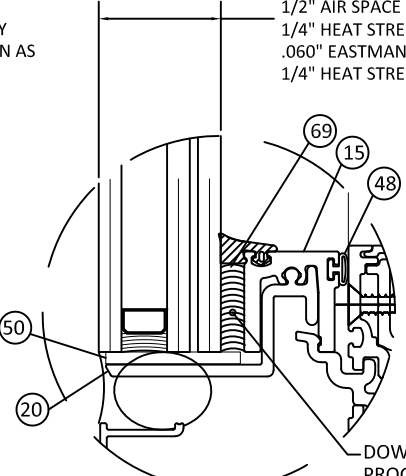
1 5/16" O.A. I.G. CONSISTING OF:
1/4" TEMPERED GLASS
1/2" AIR SPACE
1/4" HEAT STRENGTHENED
.060" TROSIFOL PVB INTERLAYER BY KURARAY, (FORMERLY KNOWN AS BUTACITE BY DUPONT)
1/4" HEAT STRENGTHENED



GLASS TYPE 'B'

DOW CORNING 995
PROGLAZE SSG
PROGLAZE II
PECORA 895

1 5/16" O.A. I.G. CONSISTING OF:
1/4" TEMPERED GLASS
1/2" AIR SPACE
1/4" HEAT STRENGTHENED
.060" EASTMAN SAFLEX INTERLAYER
1/4" HEAT STRENGTHENED



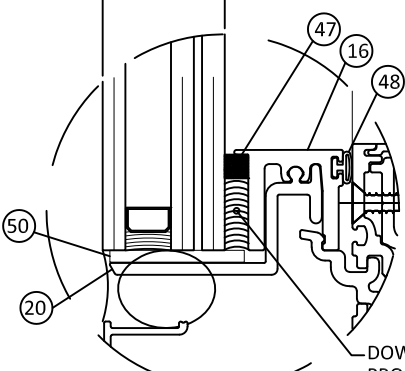
GLASS TYPE 'C'

DOW CORNING 995
PROGLAZE SSG
PROGLAZE II
PECORA 895

GLAZING OPTIONS (70 PSF)

LARGE MISSILE IMPACT

1 5/16" O.A. I.G. CONSISTING OF:
1/4" HEAT STRENGTHENED
1/2" AIR SPACE
1/4" HEAT STRENGTHENED
.090" SENTRYGLAS BY KURARAY
1/4" HEAT STRENGTHENED

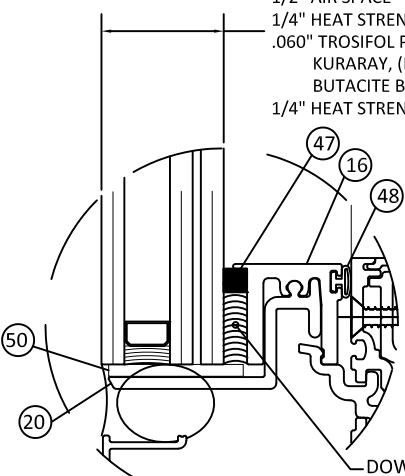


GLASS TYPE 'D'

DOW CORNING 995
PROGLAZE SSG
PROGLAZE II
PECORA 895

SMALL MISSILE IMPACT

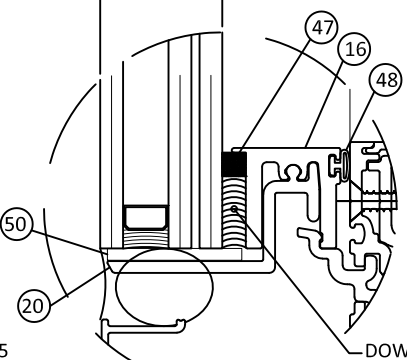
1 5/16" O.A. I.G. CONSISTING OF:
1/4" TEMPERED GLASS
1/2" AIR SPACE
1/4" HEAT STRENGTHENED
.060" TROSIFOL PVB INTERLAYER BY KURARAY, (FORMERLY KNOWN AS BUTACITE BY DUPONT)
1/4" HEAT STRENGTHENED



GLASS TYPE 'E'

DOW CORNING 995
PROGLAZE SSG
PROGLAZE II
PECORA 895

1 5/16" O.A. I.G. CONSISTING OF:
1/4" TEMPERED GLASS
1/2" AIR SPACE
1/4" HEAT STRENGTHENED
.060" EASTMAN SAFLEX INTERLAYER
1/4" HEAT STRENGTHENED



GLASS TYPE 'F'

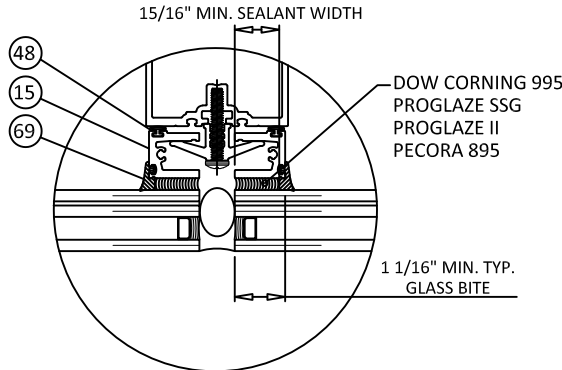
DOW CORNING 995
PROGLAZE SSG
PROGLAZE II
PECORA 895

* NOTE:

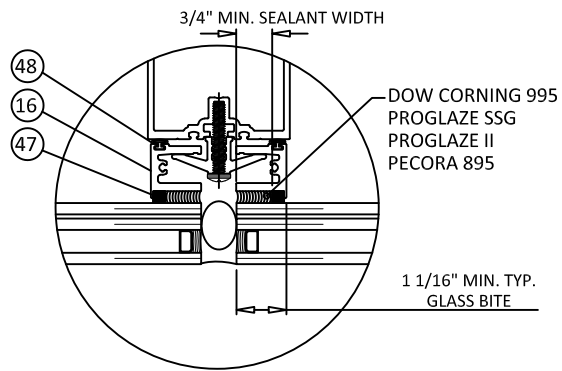
1. SETTING BLOCK AND SETTING BLOCK CHAIR CHANGES BASED ON HORIZONTAL SECTION. SEE SECTION 3.0 FOR MORE INFORMATION.

1/2" AIR SPACE CONSISTING OF :

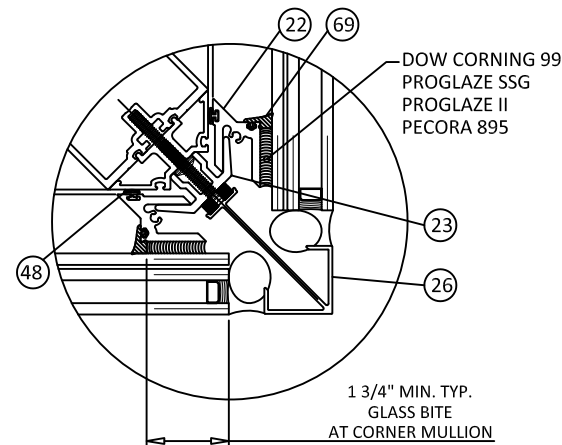
- SPACER: ALUMINUM BOX SPACER.
- PRIMARY SEALANT: POLYISOBUTYLENE (PIB).
- SECONDARY SEALANT: STRUCTURAL SILICONE INTENDED FOR FABRICATION OF INSULATING GLASS UNITS.



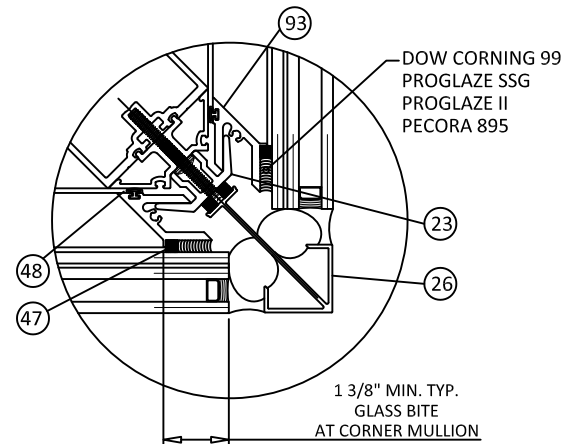
GLAZING DETAIL AT MULLION (90 PSF)



GLAZING DETAIL AT MULLION (70 PSF)



GLAZING DETAIL AT CORNER MULLION (90 PSF)



GLAZING DETAIL AT CORNER MULLION (70 PSF)



YKK AP AMERICA

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

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
GLAZING DETAILS

PREPARED BY:

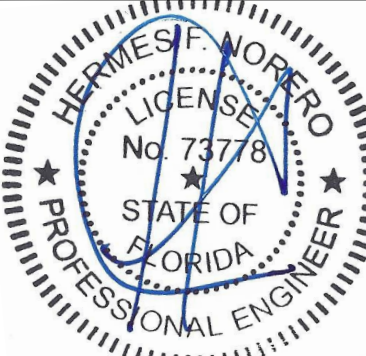
BUILDING DROPS, INC.

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



REMARKS	BY	DATE

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.
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 #:

FL25556

DATE: 12.06.17

DWG. BY:
RV

CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK251

SECTION:

6.0

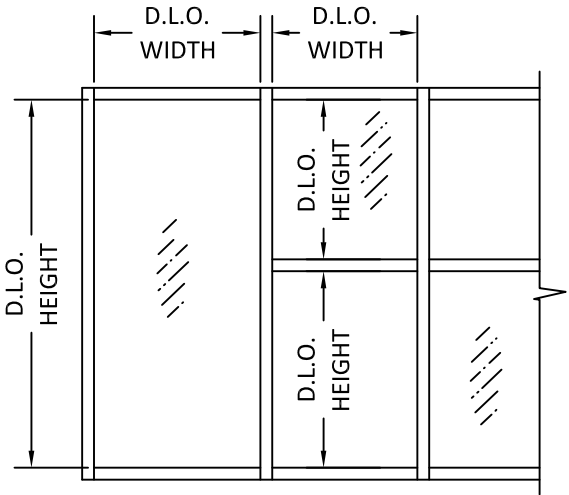
[SHEET 13 OF 38]

8/20/2020 10:54 PM

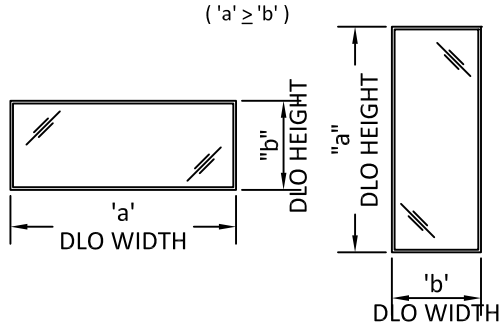
s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\fl25556\dwgs\ykk 251 - fl17111 dwgs 1-6 & 9.dwg

GLASS CAPACITY TABLE

GLASS LOAD CAPACITY (PSF)					GLASS LOAD CAPACITY (PSF)				
NOMINAL DIMS.		GLASS TYPES A & C	GLASS TYPES B	GLASS TYPES D, E & F	NOMINAL DIMS.		GLASS TYPES A & C	GLASS TYPES B	GLASS TYPES D, E & F
DLO WIDTH 'a' (in.)	DLO HEIGHT 'b' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	DLO WIDTH 'a' (in.)	DLO HEIGHT 'b' (in.)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
42	36	90.0	90.0	70.0	42	66	90.0	90.0	70.0
48		90.0	90.0	70.0	48		90.0	90.0	70.0
54		90.0	90.0	70.0	59		90.0	90.0	70.0
59		88.1	87.8	68.5	66		80.8	80.8	62.8
66		75.7	75.4	58.9	72		88.1	88.1	68.6
72		67.3	67.0	52.3	76		84.0	84.0	65.3
76		62.4	62.1	48.5	82		74.2	74.2	57.7
82	42	56.8	56.6	44.2	42	72	90.0	90.0	70.0
42		90.0	90.0	70.0	48		90.0	90.0	70.0
48		90.0	90.0	70.0	59		90.0	90.0	70.0
54		90.0	90.0	70.0	66		80.8	80.8	62.8
59		90.0	90.0	70.0	72		74.1	74.1	57.6
66		80.8	80.4	62.8	76		78.4	78.4	61.0
72		71.3	71.0	55.4	42	78	90.0	90.0	70.0
76	48	65.8	65.5	51.2	48		90.0	90.0	70.0
82		59.6	59.3	46.3	59		90.0	90.0	70.0
42		90.0	90.0	70.0	66	84	80.8	80.8	62.8
48		90.0	90.0	70.0	42		90.0	90.0	70.0
54		90.0	90.0	70.0	48		90.0	90.0	70.0
59		90.0	90.0	70.0	59	90	90.0	90.0	70.0
66		86.5	86.2	67.3	42		90.0	90.0	70.0
72	54	75.7	75.4	58.9	48		90.0	90.0	70.0
76		69.5	69.3	54.1	59	96	90.0	90.0	70.0
82		62.7	62.4	48.7	42		90.0	90.0	70.0
42		90.0	90.0	70.0	48		90.0	90.0	70.0
48		90.0	90.0	70.0	42	102	90.0	90.0	70.0
54		90.0	90.0	70.0	48		90.0	90.0	70.0
59		90.0	90.0	70.0	42	108	90.0	90.0	70.0
66	60	90.0	90.0	70.0	48		90.0	90.0	70.0
72		80.8	80.4	62.8	42		90.0	90.0	70.0
76		73.8	73.5	57.4	48		90.0	90.0	70.0
82		66.1	65.8	51.4	42		90.0	90.0	70.0
42		90.0	90.0	70.0					
48		90.0	90.0	70.0					
54		90.0	90.0	70.0					
59	60	90.0	90.0	70.0					
66		90.0	90.0	70.0					
72		86.5	86.2	67.3					
76		78.6	78.3	61.1					
82		69.9	69.6	54.4					



PANEL DIMENSIONS



* NOTE:
1. GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-04 (3 SEC. GUSTS) AND CHAPTER 17 OF THE CURRENT FBC FOR SIZES OTHER THAN TESTED.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER CHAPTER 24.
4. 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

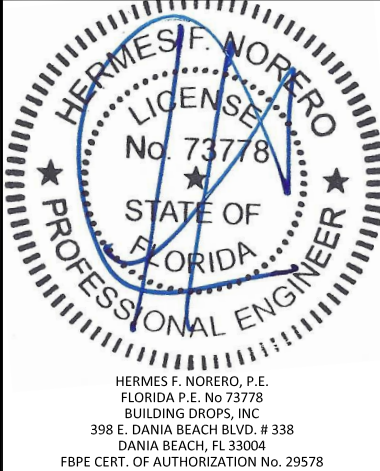
TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
GLAZING DETAILS

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



REMARKS	BY	DATE

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 #:
FL25556

DATE: 12.06.17

DWG. BY:
RV

CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK251

SECTION:

6.1

s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\025556(dwgs)\ykk 251 - flt7111 dwgs 7 - fts anchor dtls.dwg 8/20/2020 10:56 PM

F, T & S ANCHOR TYPES

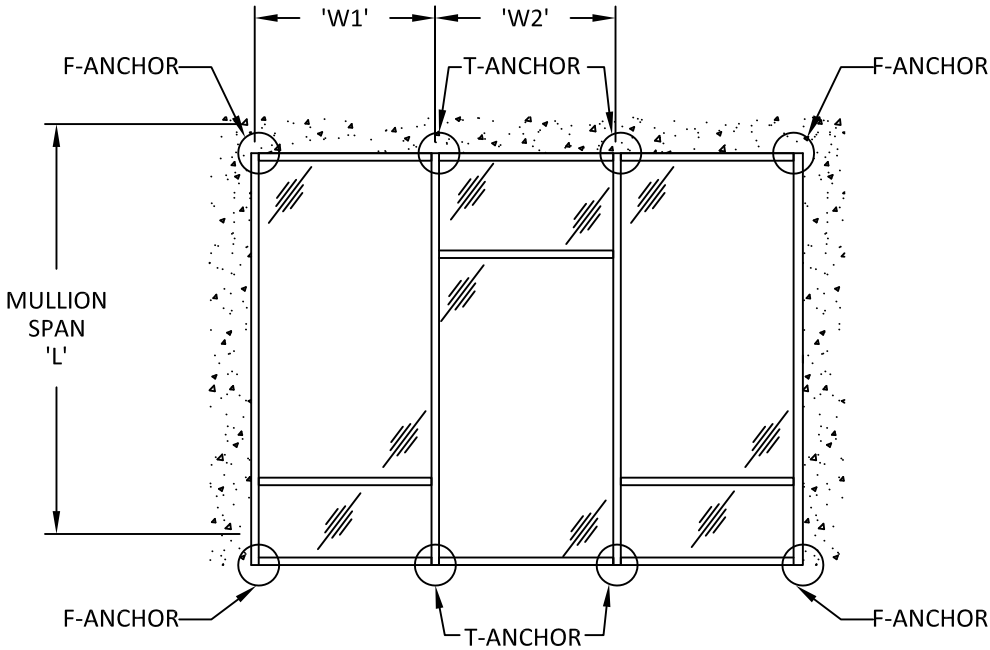
TYPE	DIAMETER	ANCHOR TYPE	SUBSTRATE	MINIMUM EDGE DISTANCE	MINIMUM EMBEDMENT
A	1/2"	HILTI KWIK BOLT TZ	MIN. 3000 PSI CONCRETE 'UNCRACKED'	3 1/4"	3 5/8"
			MIN. 3000 PSI CONCRETE 'CRACKED OR UNCRACKED'	4 1/2"	
			MIN. 4000 PSI CONCRETE 'UNCRACKED'	3 1/4"	
			MIN. 4000 PSI CONCRETE 'CRACKED OR UNCRACKED'	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-CONII+	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. = 0.55)	1"	1 1/4"
	1/4"	GR 5 SM SCREW			
	1/4"	ELCO ULTA -CON			

NOTE:

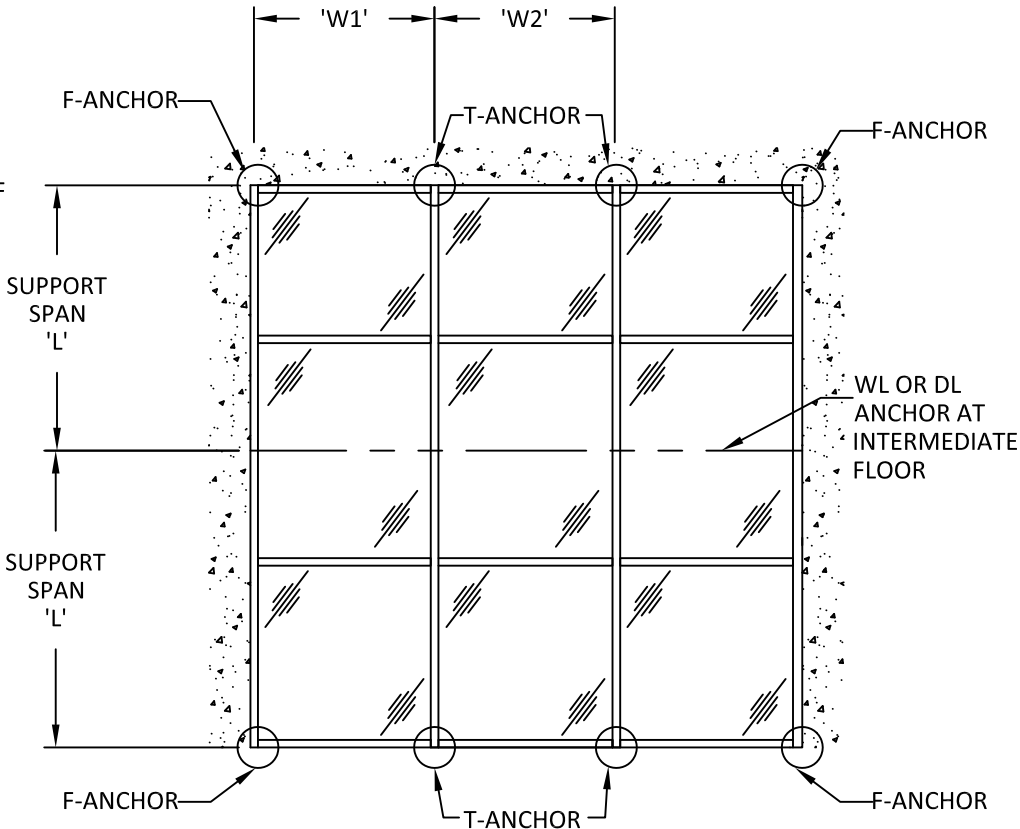
1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. REFER TO ANCHOR LAYOUTS AT RIGHT FOR LOCATIONS AND DETERMINING MAX. LENGTHS (L) AND TRIBUTARY WIDTHS (W).
3. FOR SITE CONDITIONS NOT SHOWN IN THE DETAILS HEREIN OR EDGE DISTANCE REQUIREMENTS TO BE MODIFIED, ANCHORS MAY BE ENGINEERED ON A SITE SPECIFIC BASIS.
4. REFER TO SECTION 7.1 THRU 7.6 FOR ANCHOR CONFIGURATIONS.
5. REFER TO SECTION 7.7 THRU 7.9 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.

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



SINGLE SPAN ANCHOR LAYOUT



MULTI SPAN ANCHOR LAYOUT - TYP.



YKK AP AMERICA

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

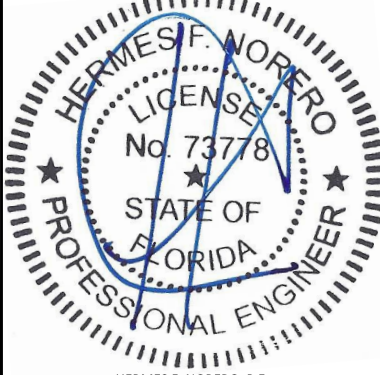
TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
F, T & S - ANCHOR DETAILS

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.
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 #:

FL25556

DATE: 12.06.17

DWG. BY:
RV

CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK251

SECTION:

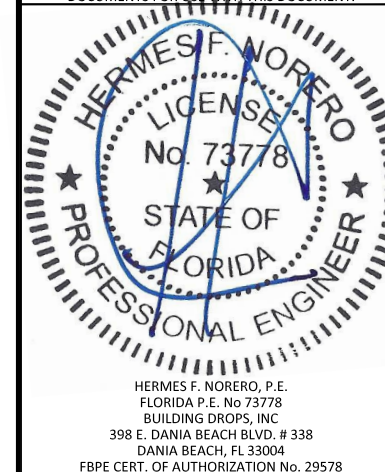
7.0

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
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

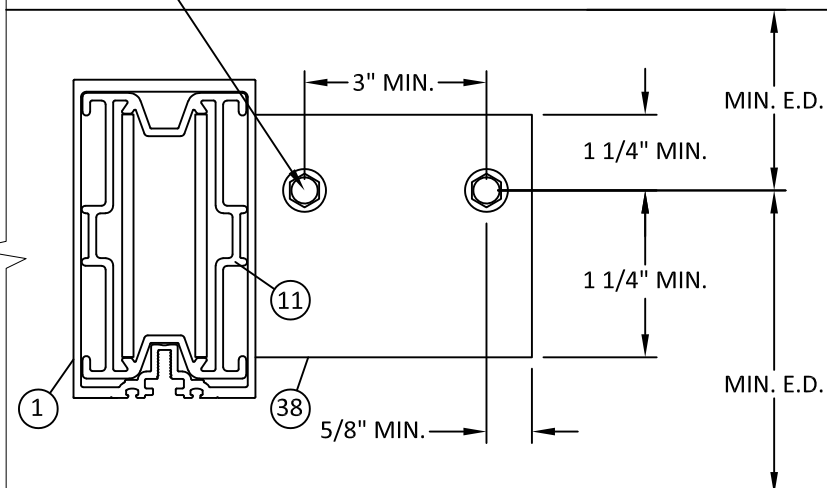
REMARKS	BY	DATE

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.



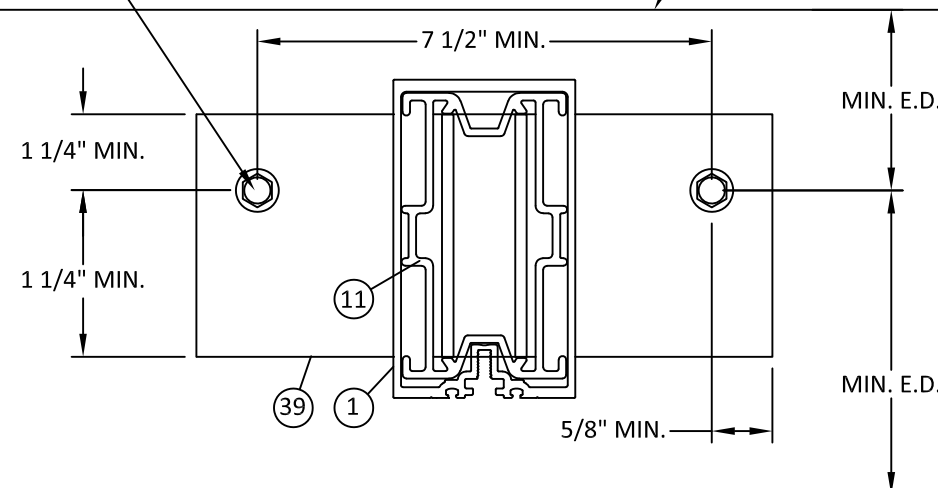
FL #:		FL25556	
DATE:		12.06.17	
DWG. BY: RV		CHK. BY: HFN	
SCALE:		NTS	
DWG. #:		YKK251	
SECTION:		7.1	
[SHEET 16 OF 38]			

INSTALLATION ANCHOR
TYPES B, C, D, E, F, G, H, & I



1 HORIZONTAL SECTION
7.1
F-ANCHOR
CONFIG 1

INSTALLATION ANCHOR
TYPES B, C, D, E, F, G, H, & I



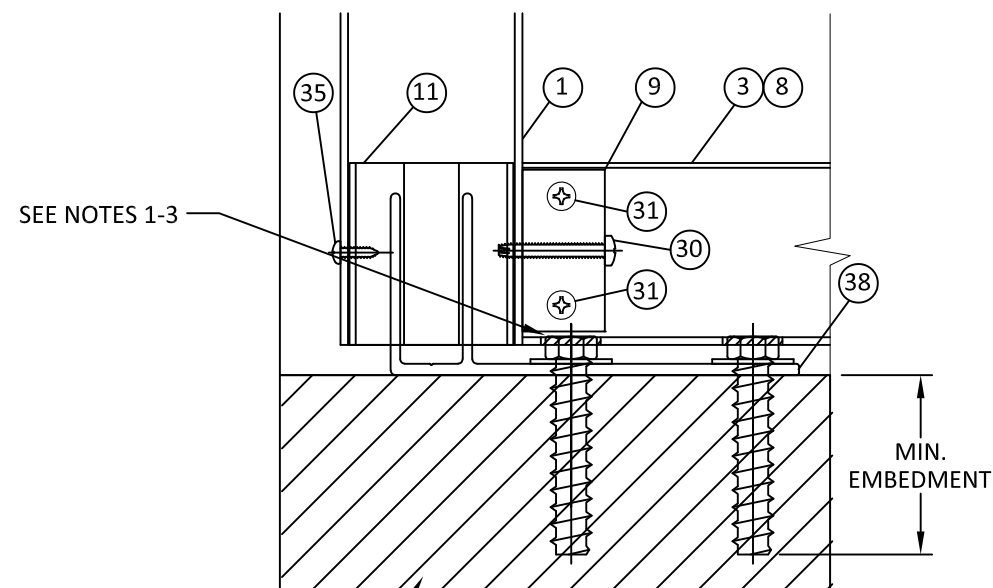
2 HORIZONTAL SECTION
7.1
T-ANCHOR
CONFIG 1

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

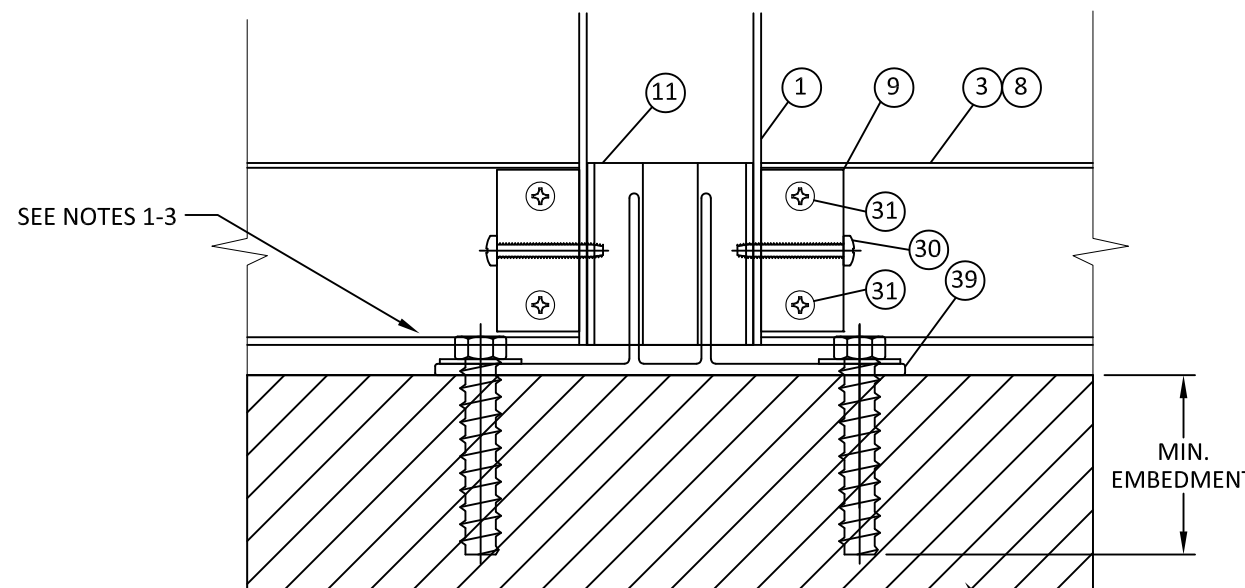
NOTE:

1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH E1-3066 ANCHOR SLEEVE.
ANCHORS ARE THE SAME FOR BOTH DEPTHS.



CONCRETE OR STEEL SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

EXTERIOR VIEW
F-ANCHOR (TYPICAL)

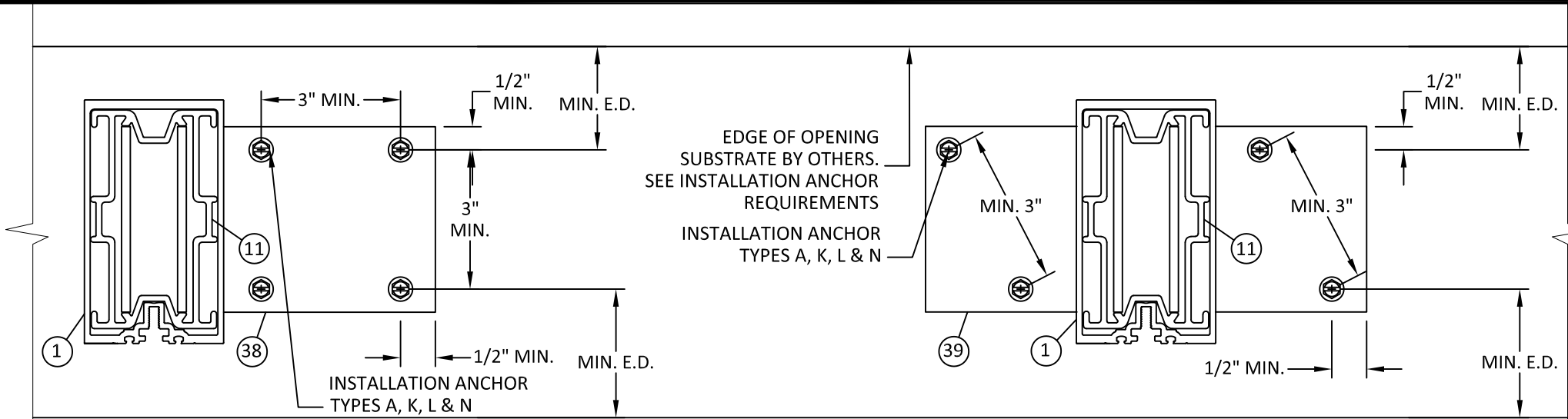


CONCRETE OR STEEL SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

EXTERIOR VIEW
T-ANCHOR (TYPICAL)

8/20/2020 10:56 PM

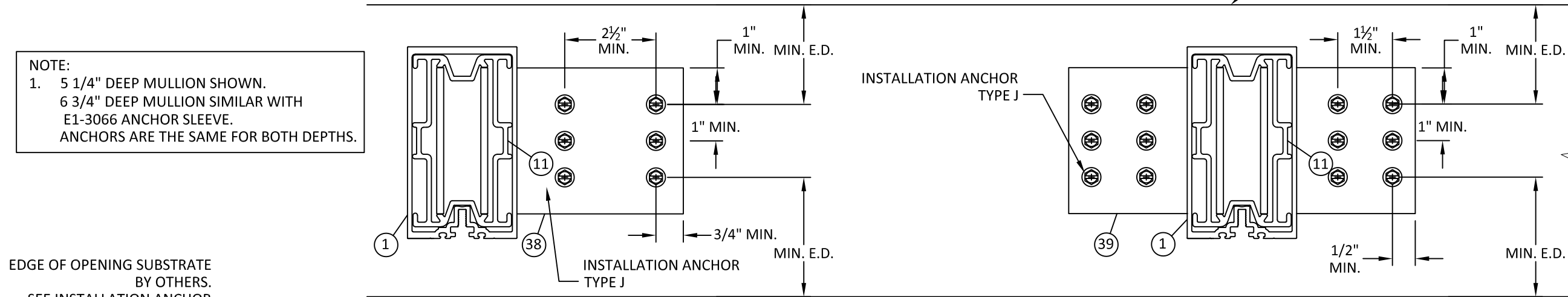
s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\1725556\dwgs\ykk 251 - fl17111 dwgs 7 - fbc anchor dtls.dwg



3 HORIZONTAL SECTION
7.2 F-ANCHOR CONFIG 2

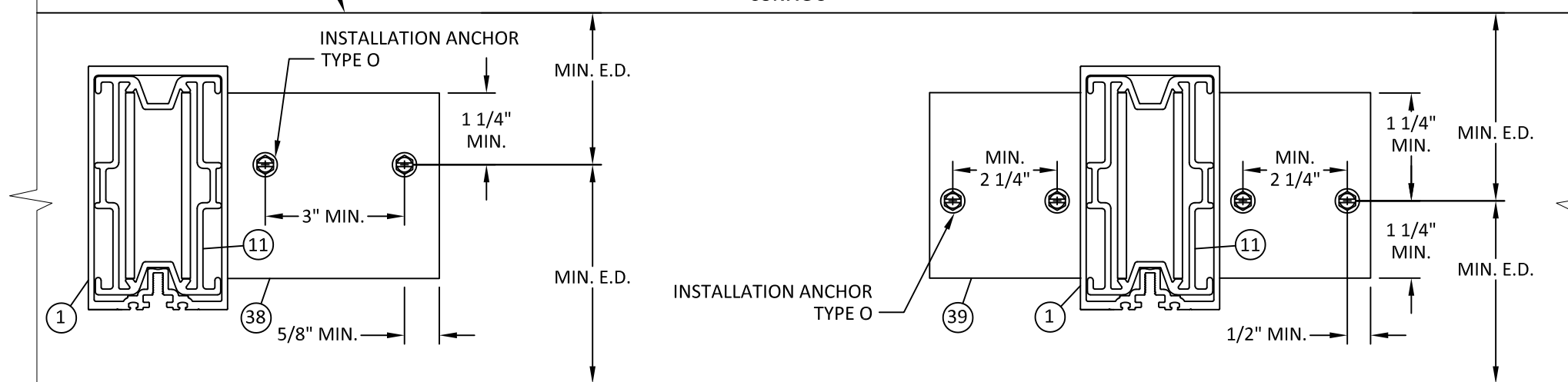
4 HORIZONTAL SECTION
7.2 T-ANCHOR CONFIG 2

NOTE:
1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH E1-3066 ANCHOR SLEEVE.
ANCHORS ARE THE SAME FOR BOTH DEPTHS.



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

8 HORIZONTAL SECTION
7.2 T-ANCHOR CONFIG 7



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

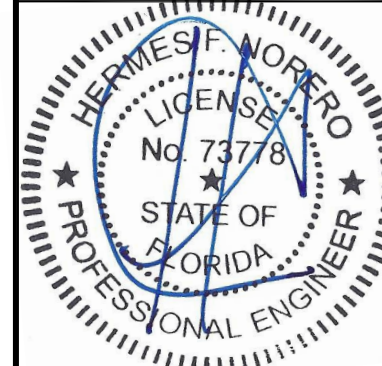
TITLE: YHC 300 SSG CASSETTE CURTAIN WALL SYSTEM - INSULATING GLASS (HVHZ) (IMPACT) F & T - ANCHOR DETAILS

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.



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 #: **FL25556**

DATE: **12.06.17**

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

SCALE: **NTS**

DWG. #: **YKK251**

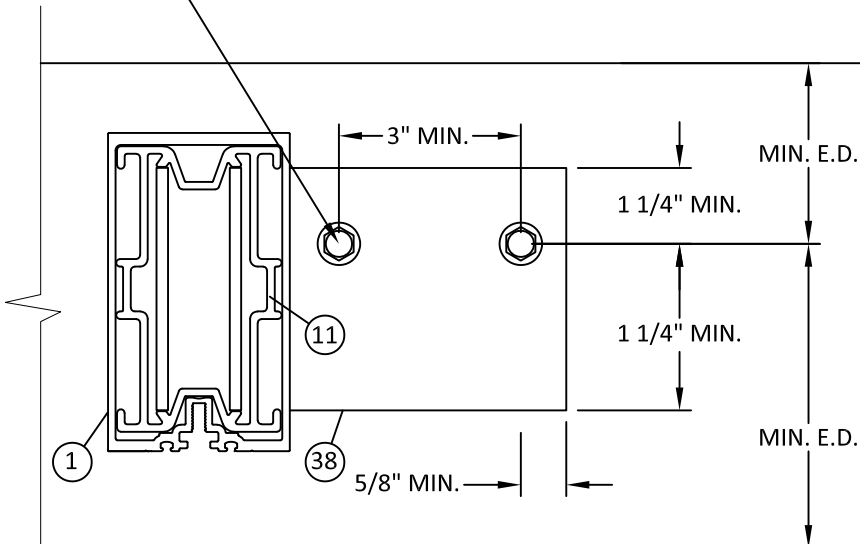
SECTION:

7.2

[SHEET 17 OF 38]

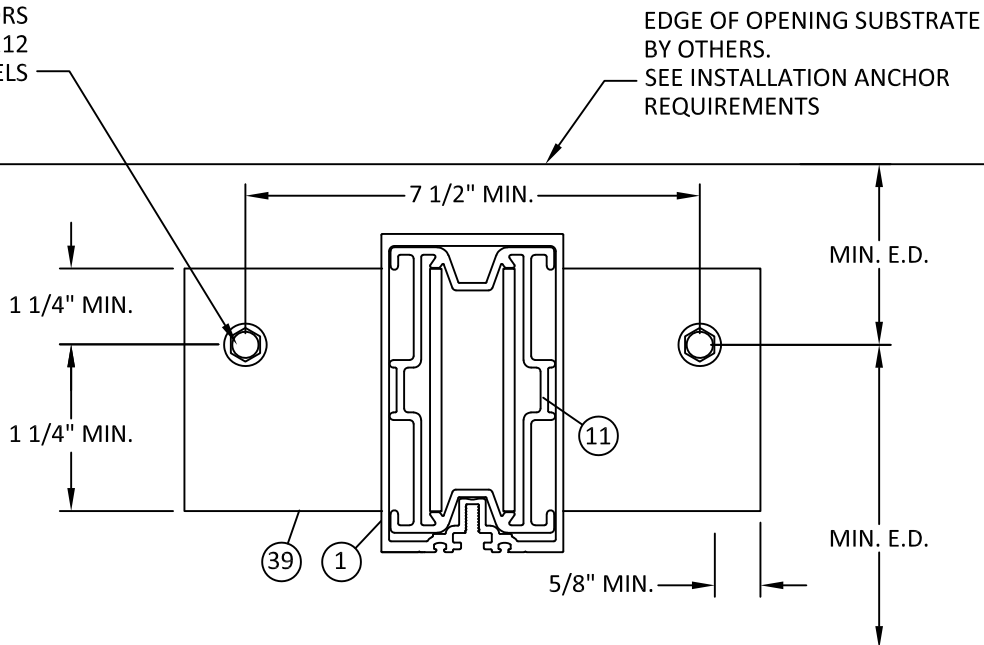
s:\projects\ykk.ap.america, inc.\cc-20-0238 fbc submittal - fbc 2020 code change\1725556\dwgs\ykk 251 - fl17111 dwgs 7 - fts anchor dtls.dwg
8/20/2020 10:57 PM

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



9 HORIZONTAL SECTION
7.3 F-ANCHOR
CONFIG 1

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



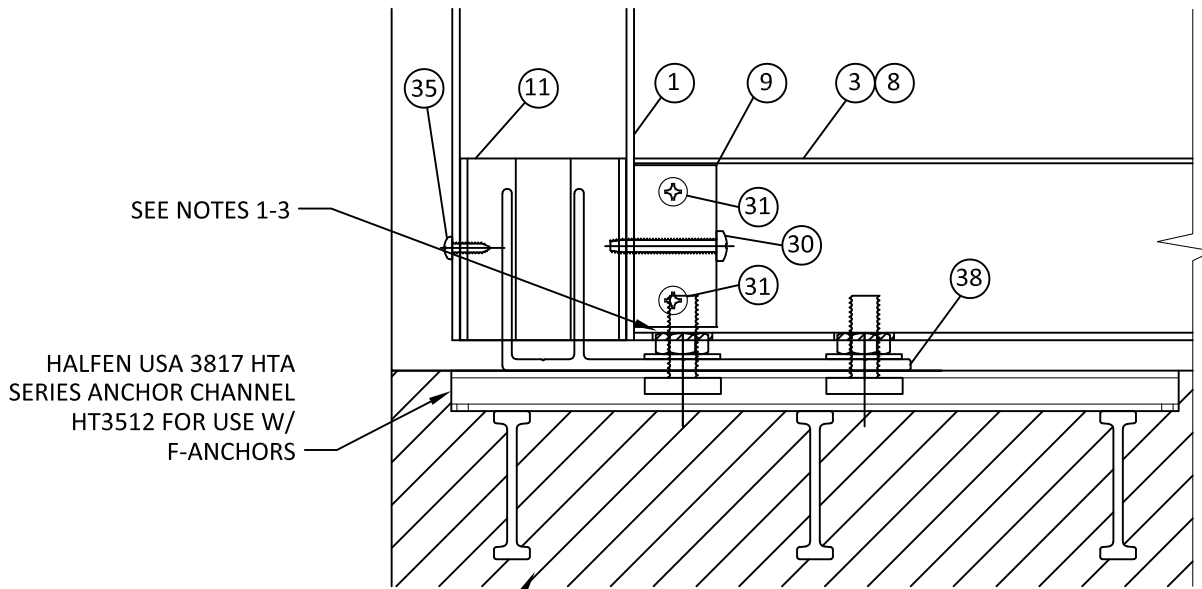
10 HORIZONTAL SECTION
7.3 T-ANCHOR
CONFIG 1

NOTE:

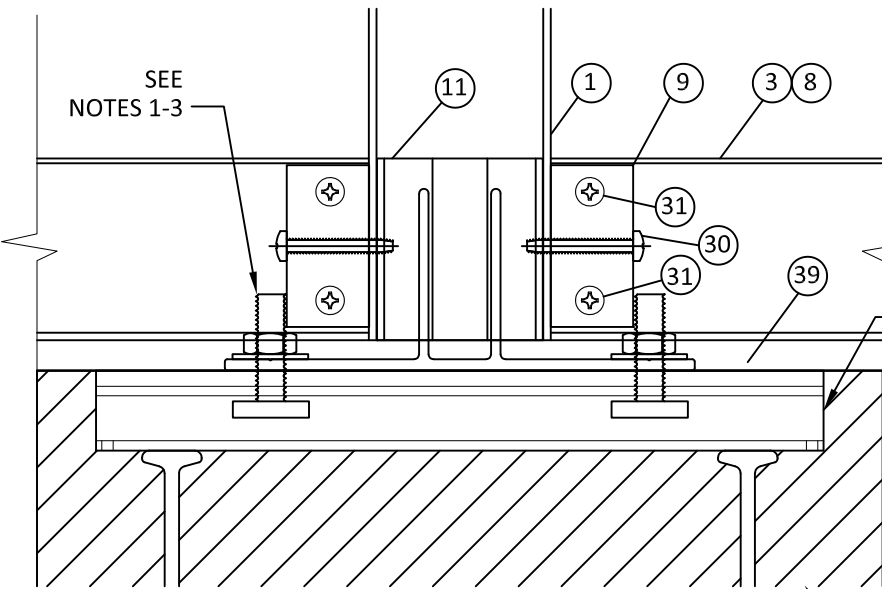
1. ANCHORS SHOWN HEREIN HAVE BEEN SPECIFIED PER ANCHOR MANUFACTURER'S RECOMMENDATIONS. CAST IN ANCHOR CHANNELS, HT3512 SHALL BE USED WITH F-ANCHORS AND HT6112 SHALL BE USED WITH T-ANCHORS.
2. ANCHOR BOLT EXTENSIONS MAY BE CLIPPED TO T.O. HEX NUT AND SHEAR BLOCKS MAY BE NOTCHED TO ALLOW FOR ANCHOR CLEARANCE.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

NOTE:

1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH E1-3066 ANCHOR SLEEVE.
ANCHORS ARE THE SAME FOR BOTH DEPTHS.



EXTERIOR VIEW
F-ANCHOR (TYPICAL)



EXTERIOR VIEW
T-ANCHOR (TYPICAL)



YKK AP AMERICA

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

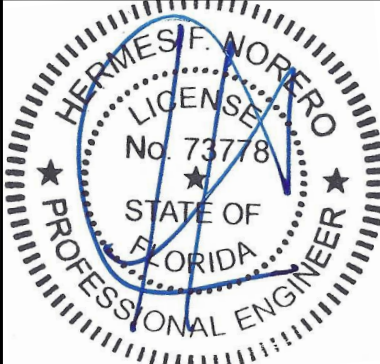
TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
F & T - ANCHOR DETAILS

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.



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 #:
FL25556

DATE: **12.06.17**

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

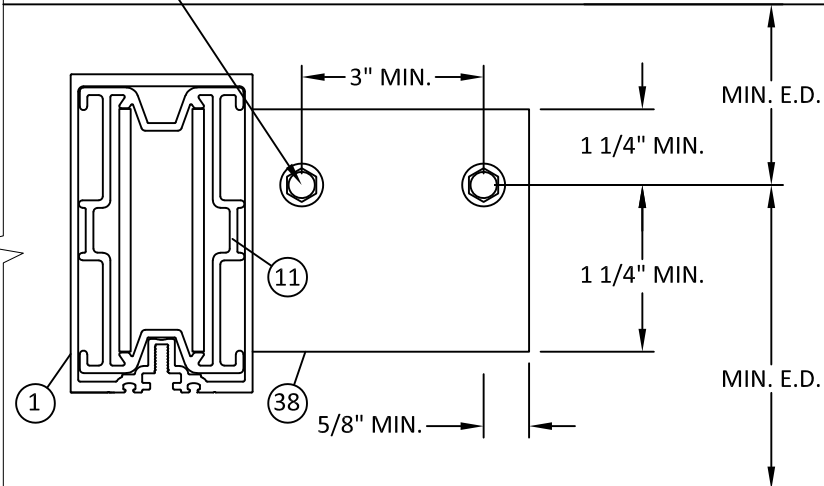
SCALE: **NTS**

DWG. #: **YKK251**

SECTION:
7.3

s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\fl25556\dwgs\ykk 251 - fl17111 dwgs 7 - fbc anchor details.dwg 8/20/2020 10:57 PM

INSTALLATION ANCHOR
TYPES B, C, D, E, F, G, H, & I

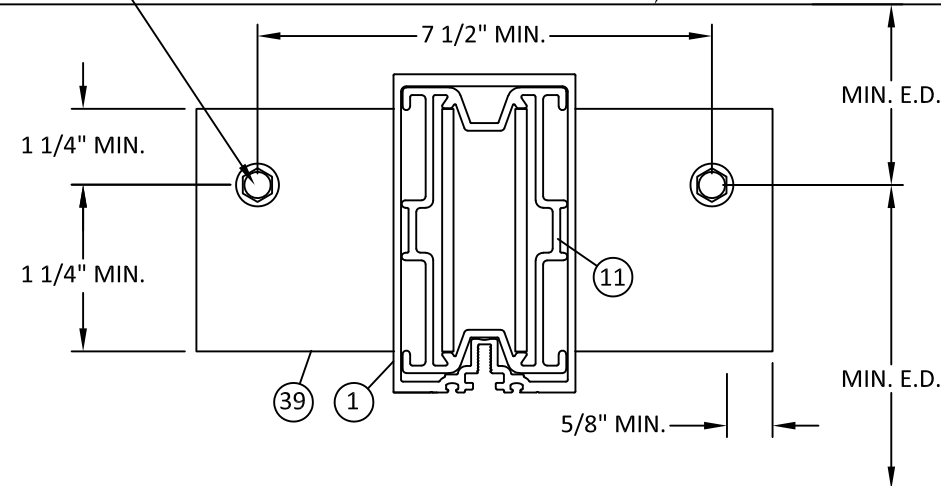


11 HORIZONTAL SECTION
7.4
F-ANCHOR
CONFIG 1

NOTE:

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

INSTALLATION ANCHOR
TYPES B, C, D, E, F, G, H, & I

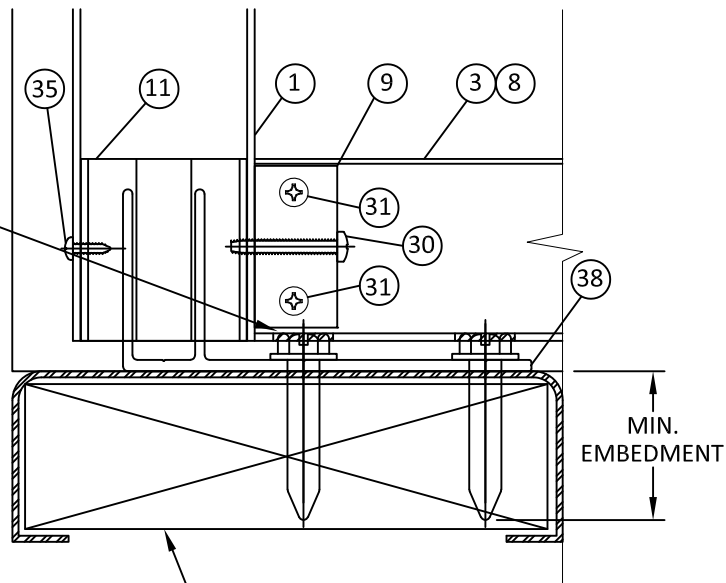


12 HORIZONTAL SECTION
7.4
T-ANCHOR
CONFIG 1

NOTE:

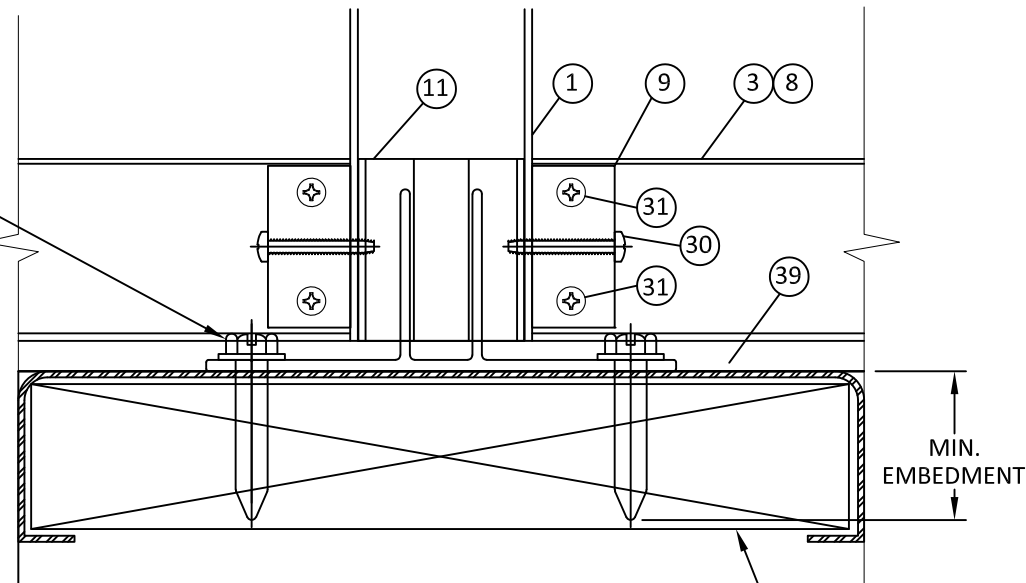
1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH E1-3066 ANCHOR SLEEVE.
ANCHORS ARE THE SAME FOR BOTH DEPTHS.

SEE NOTES 1-3



EXTERIOR VIEW
F-ANCHOR (TYPICAL)

SEE NOTES 1-3



EXTERIOR VIEW
T-ANCHOR (TYPICAL)

WOOD AND STEEL STUD
SUBSTRATE BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS

EDGE OF OPENING SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS



YKK AP AMERICA

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

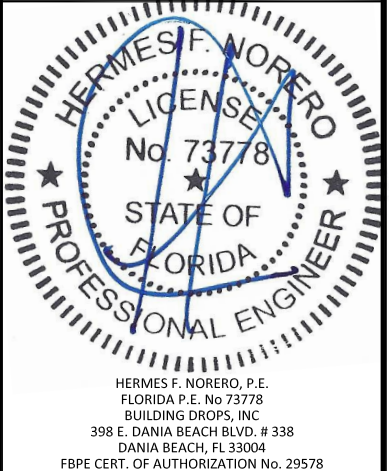
TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
F & T - ANCHOR DETAILS

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.



FL #:
FL25556

DATE: **12.06.17**

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

SCALE: **NTS**

DWG. #: **YKK251**

SECTION:
7.4



YKK AP AMERICA

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

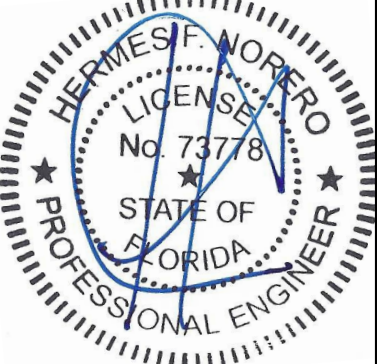
TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
F & T - ANCHOR DETAILS

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.



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 #:
FL25556

DATE: **12.06.17**

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

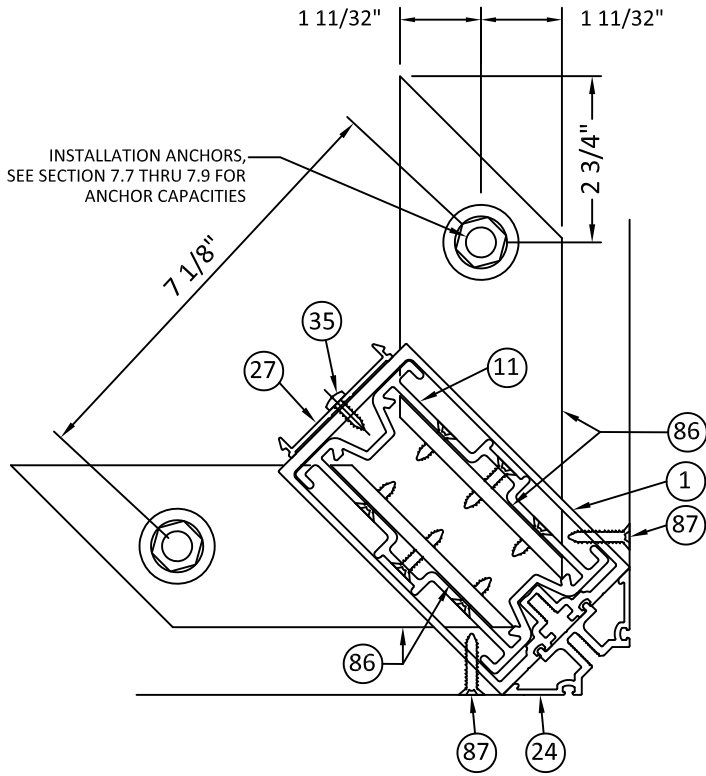
SCALE: **NTS**

DWG. #: **YKK251**

SECTION:

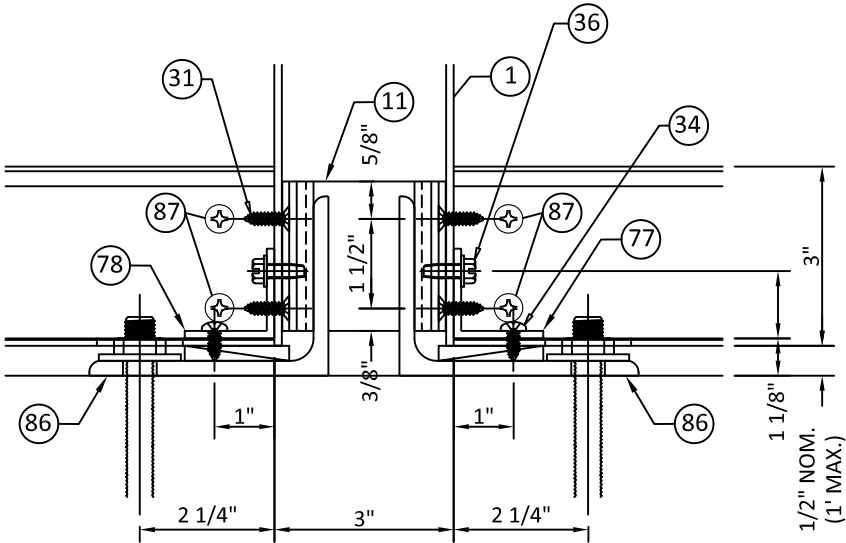
7.5

[SHEET 20 OF 38]



13
7.5 **HORIZONTAL SECTION**
CORNER MULLION ANCHOR

NOTE:
1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH E1-3066 ANCHOR SLEEVE.
ANCHORS ARE THE SAME FOR BOTH DEPTHS.

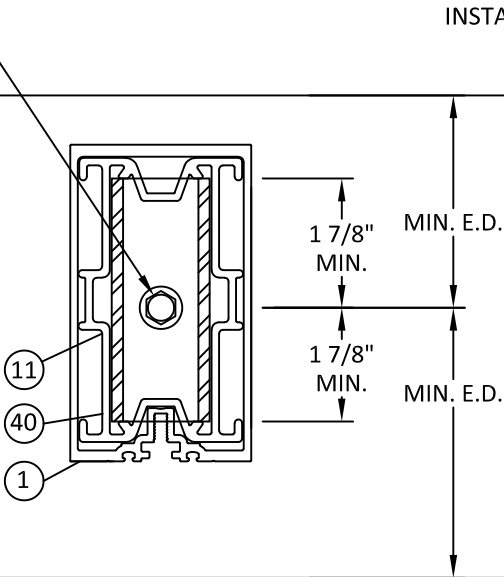


CORNER MULLION ANCHORS
FRONT VIEW

8/20/2020 10:57 PM

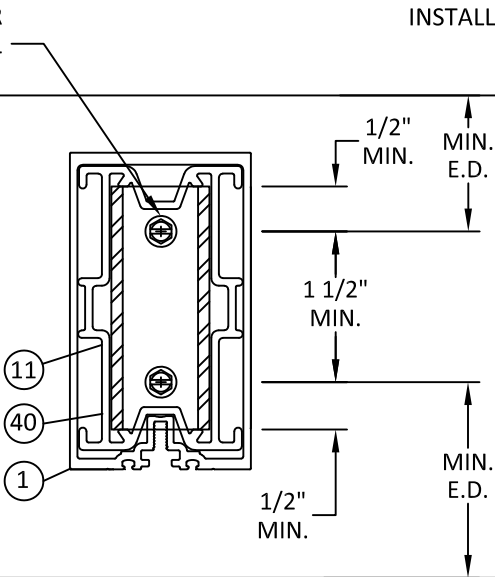
s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\fl25556\dwgs\ykk 251 - fl17111 dwgs 7 - fts anchor dtls.dwg

INSTALLATION ANCHOR
TYPES H & I



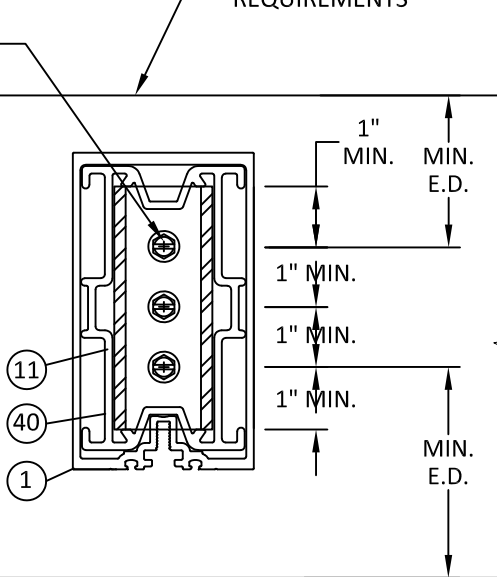
14
7.6 **HORIZONTAL SECTION**
S-ANCHOR @ DOOR JAMB
CONFIG 4

INSTALLATION ANCHOR
TYPES K & L



15
7.6 **HORIZONTAL SECTION**
S-ANCHOR @ DOOR JAMB
CONFIG 5

INSTALLATION ANCHOR
TYPE J



16
7.6 **HORIZONTAL SECTION**
S-ANCHOR @ DOOR JAMB
CONFIG 6

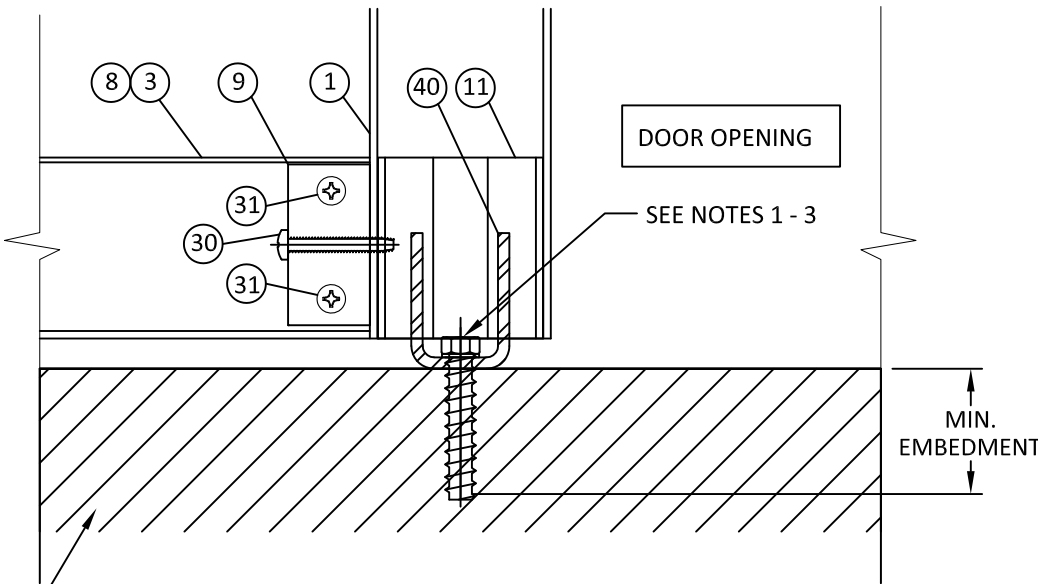
NOTE:

1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH E1-3066 ANCHOR SLEEVE.
ANCHORS ARE THE SAME FOR BOTH DEPTHS.

NOTE:

1. ANCHORS SHOWN HEREIN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL ANCHOR IDENTIFICATION SHALL BE PER ANCHOR MANUFACTURERS INSTALLATION INSTRUCTIONS
2. REFER TO INSTALLATION ANCHOR REQUIREMENTS FOR MINIMUM EDGE DISTANCES (E.D.), EMBEDMENTS (EMBED), & PROPERTIES OF OPENING SUBSTRATE.
3. ALTERNATIVELY, F-ANCHORS MAY BE USED IN LIEU OF S-ANCHORS AT DOOR JAMB TO SIDELITE LOCATIONS. REFER TO SECTION 8 FOR DETAILS & SECTION 7.8 FOR F-ANCHOR CAPACITIES.

CONCRETE OR STEEL SUBSTRATE
BY OTHERS.
SEE INSTALLATION ANCHOR
REQUIREMENTS



EXTERIOR VIEW
S-ANCHOR (TYPICAL)
@ DOOR JAMB



YKK AP AMERICA

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

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
S - ANCHOR DETAILS

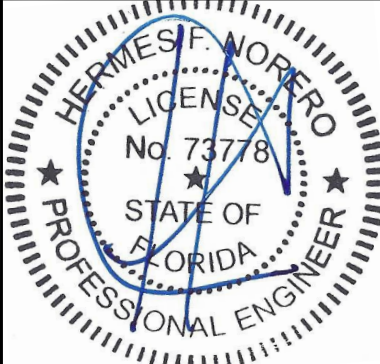
PREPARED BY:
BUILDING DROPS, INC.

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.
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 #:
FL25556

DATE: **12.06.17**

DWG. BY:
RV

CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **YKK251**

SECTION:

7.6

s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\fl25556\dwgs\ykk 251 - fl17111 dwgs 7 - f t s anchor dtls.dwg

8/20/2020 10:57 PM

s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\fl25556.dwg\ykk 251 - fl17111.dwg 7 - fbc anchor dtls.dwg

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	90	90	90	90	90	90	90	90	90	90	90	90	90	90
42		90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
48		86.5	90	90	90	90	90	90	90	90	90	86.5	86.5	90	86.5	86.5
54		76.9	90	90	90	90	90	90	90	90	90	76.9	76.9	90	76.9	76.9
60		69.2	90	86.5	90	90	90	90	83.4	90	90	69.2	69.2	90	69.2	69.2
66		62.9	90	78.7	90	90	90	90	75.8	90	90	62.9	62.9	90	62.9	62.9
72		57.7	90	72.1	90	90	90	89.4	69.5	90	89.4	57.7	57.7	90	57.7	57.7
36	84	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
42		90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
48		80.4	90	90	90	90	90	90	90	90	90	80.4	80.4	90	80.4	80.4
54		71.4	90	89.3	90	90	90	90	86	90	90	71.4	71.4	90	71.4	71.4
60		64.3	90	80.4	90	90	90	90	77.4	90	90	64.3	64.3	90	64.3	64.3
66		58.4	90	73.1	90	90	90	90	70.4	90	90	58.4	58.4	90	58.4	58.4
72		53.6	90	67	90	90	90	83	64.5	89.3	83	53.6	53.6	90	53.6	53.6
36	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
42		85.7	90	90	90	90	90	90	90	90	90	85.7	85.7	90	85.7	85.7
48		75	90	90	90	90	90	90	90	90	75	75	90	75	75	75
54		66.7	90	83.3	90	90	90	90	80.3	90	90	66.7	66.7	90	66.7	66.7
60		60	90	75	90	90	90	90	72.2	90	90	60	60	90	60	60
66		54.5	90	68.2	90	90	90	84.5	65.7	90	84.5	54.5	54.5	90	54.5	54.5
72		50	90	62.5	90	90	90	77.5	60.2	83.3	77.5	50	50	90	50	50
36	96	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
42		80.4	90	90	90	90	90	90	90	90	90	80.4	80.4	90	80.4	80.4
48		70.3	90	87.9	90	90	90	90	84.7	90	90	70.3	70.3	90	70.3	70.3
54		62.5	90	78.1	90	90	90	90	75.3	90	90	62.5	62.5	90	62.5	62.5
60		56.3	90	70.3	90	90	90	87.2	67.7	90	87.2	56.3	56.3	90	56.3	56.3
66		51.1	90	63.9	90	90	90	79.3	61.6	85.2	79.3	51.1	51.1	90	51.1	51.1
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	46.9
36	102	88.2	90	90	90	90	90	90	90	90	90	88.2	88.2	90	88.2	88.2
42		75.6	90	90	90	90	90	90	90	90	90	75.6	75.6	90	75.6	75.6
48		66.2	90	82.7	90	90	90	90	79.7	90	90	66.2	66.2	90	66.2	66.2
54		58.8	90	73.5	90	90	90	90	70.8	90	90	58.8	58.8	90	58.8	58.8
60		52.9	90	66.2	90	90	90	82.1	63.7	88.2	82.1	52.9	52.9	90	52.9	52.9
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	48.1
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	44.1
36	108	83.3	90	90	90	90	90	90	90	90	90	83.3	83.3	90	83.3	83.3
42		71.4	90	89.3	90	90	90	90	86	90	90	71.4	71.4	90	71.4	71.4
48		62.5	90	78.1	90	90	90	90	75.3	90	90	62.5	62.5	90	62.5	62.5
54		55.6	90	69.4	90	90	90	86.1	66.9	90	86.1	55.6	55.6	90	55.6	55.6
60		50	90	62.5	90	90	90	77.5	60.2	83.3	77.5	50	50	90	50	50
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	45.5
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	41.7
36	114	78.9	90	90	90	90	90	90	90	90	90	78.9	78.9	90	78.9	78.9
42		67.7	90	84.6	90	90	90	90	81.5	90	90	67.7	67.7	90	67.7	67.7
48		59.2	90	74	90	90	90	90	71.3	90	90	59.2	59.2	90	59.2	59.2
54		52.6	90	65.8	90	90	90	81.6	63.4	87.7	81.6	52.6	52.6	90	52.6	52.6
60		47.4	85.6	59.2	85.5	85.5	85.6	73.4	57	78.9	73.4	47.4	47.4	85.6	47.4	47.4
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	43.1
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	39.5
36	78	55.6	90	69.4	90	90	90	86.1	66.9	90	86.1	55.6	55.6	90	55.6	55.6
42		47.6	86	59.5	86	86	86	73.8	57.3	79.4	73.8	47.6	47.6	86	47.6	47.6
48		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	41.7
54		37	66.9	46.3	66.9	66.9	66.9	57.4	44.6	61.7	57.4	37	37	66.9	37	37
60		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	33.3
66		30.3	54.7	37.9	54.7	54.7	54.7	47	36.5	50.5	47	30.3	30.3	54.7	30.3	30.3
72		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	27.8

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	89.3	90	90	90	90	86	90	90	71.4	71.4	90	71.4	71.4
42		61.2	90	76.5	90	90	90	90	73.7	90	90	61.2	61.2	90	61.2	61.2
48		53.6	90	67	90	90	90	83	64.5	89.3	83	53.6	53.6	90	53.6	53.6
54		47.6	86	59.5	86	86	86	73.8	57.3	79.4	73.8	47.6	47.6	86	47.6	47.6
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	42.9
66		39	70.4	48.7	70.3	70.4	70.4	60.4	46.9	64.9	60.4	39	39	70.4	39	39
72		35.7	64.5	44.6	64.5	64.5	64.5	55.4	43	59.5	55.4	35.7	35.7	64.5	35.7	35.7
36	132	68.2	90	85.2	90	90	90	90	82.1	90	90	68.2	68.2	90	68.2	68.2
42		58.4	90	73.1	90	90	90	90	70.4	90	90	58.4	58.4	90	58.4	58.4
48		51.1	90	63.9	90	90	90	79.3	61.6	85.2	79.3	51.1	51.1	90	51.1	51.1
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	45.5
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	40.9
66		37.2	67.2	46.5	67.1	67.2	67.2	57.6	44.8	62	57.6	37.2	37.2	67.2	37.2	37.2
72		34.1	61.6	42.6	61.6	61.6	61.6	52.8	41	56.8	52.8	34.1	34.1	61.6	34.1	34.1
36	138	65.2	90	81.5	90	90	90	90	78.5	90	90	65.2	65.2	90	65.2	65.2
42		55.9	90	69.9	90	90	90	86.6	67.3	90	86.6	55.9	55.9	90	55.9	55.9
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	48.9
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	43.5
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	39.1
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	35.6
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	32.6
36	144	62.5	90	78.1	90	90	90	90	75.3	90	90	62.5	62.5	90	62.5	62.5
42		53.6	90	67	90	90	90	83	64.5	89.3	83	53.6	53.6	90	53.6	53.6
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	46.9
54		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	41.7
60		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	37.5
66		34.1	61.6	42.6	61.6	61.6	61.6	52.8	41	56.8	52.8	34.1	34.1	61.6	34.1	34.1
72		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	31.3
36	150	60	90	75	90	90	90	90	72.2	90	90	60	60	90	60	60
42		51.4	90	64.3	90	90	90	79.7	61.9	85.7	79.7	51.4	51.4	90	51.4	51.4
48		45	81.3	56.3	81.3	81.3	81.3	69.8	54.2	75	69.8	45	45	81.3	45	45
54		40	72.2	50	72.2	72.2	72.2	62	48.2	66.7	62	40	40	72.2	40	40
60		36	65	45	65	65	65	55.8	43.3	60	55.8	36	36	65	36	36
66		32.7	59.1	40.9	59.1	59.1	59.1	50.7	39.4	54.5	50.7	32.7	32.7	59.1	32.7	32.7
72		30	54.2	37.5	54.2	54.2	54.2	46.5	36.1	50	46.5	30	30	54.2	30	30
36	156	57.7	90	72.1	90	90	90	89.4	69.5	90	89.4	57.7	57.7	90	57.7	57.7
42		49.5	89.3	61.8	89.3	89.3	89.3	76.6	59.5	82.4	76.6	49.5	49.5	89.3	49.5	49.5
48		43.3	78.2	54.1	78.1	78.1	78.2	67.1	52.1	72.1	67.1	43.3	43.3	78.2	43.3	43.3
54		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	38.5
60		34.6	62.5	43.3	62.5	62.5	62.5	53.7	41.7	57.7	53.7	34.6	34.6	62.5	34.6	34.6
66		31.5	56.8	39.3	56.8	56.8	56.8	48.8	37.9	52.4	48.8	31.5	31.5	56.8	31.5	31.5
72		28.8	52.1	36.1	52.1	52.1	52.1	44.7	34.7	48.1	44.7	28.8	28.8	52.1	28.8	28.8
36	162	55.6	90	69.4	90	90	90	86.1	66.9	90	86.1	55.6	55.6	90	55.6	55.6
42		47.6	86	59.5	86	86	86	73.8	57.3	79.4	73.8	47.6	47.6	86	47.6	47.6
48		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	41.7
54		37	66.9	46.3	66.9	66.9	66.9	57.4	44.6	61.7	57.4	37	37	66.9	37	37
60		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	33.3
66		30.3	54.7	37.9	54.7	54.7	54.7	47	36.5	50.5	47	30.3	30.3	54.7	30.3	30.3
72		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	27.8

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	84	56.9	69.2	86.3	23.1	57.4
36		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	90	57.7	70.1	87.4	23.4	58.2
72		52.9	64.3	80.1	21.4	53.3
36		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	96	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		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	102	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		87.1	90.0	90.0	35.3	87.8
42		74.6	90.0	90.0	30.3	75.3
48	108	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		82.2	90.0	90.0	33.3	83.0
42	114	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		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	90	90	30	74.7
42		63.4	77.1	90	25.7	64
48		55.5	67.5	84.2	22.5	56
54		49.3	60	74.8	20	49.8
60		44.4	54	67.3	18	44.8
66		40.4	49.1	61.2	16.4	40.7
72	126	37	45	56.1	15	37.3
36		70.5	85.7	90	28.6	71.1
42		60.4	73.5	90	24.5	61
48		52.9	64.3	80.1	21.4	53.3
54		47	57.1	71.2	19	47.4
60		42.3	51.4	64.1	17.1	42.7
66	132	38.4	46.8	58.3	15.6	38.8
72		35.2	42.9	53.4	14.3	35.6
36		67.3	81.8	90	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	18.2	45.3
60	138	40.4	49.1	61.2	16.4	40.7
66		36.7	44.6	55.6	14.9	37
72		33.6	40.9	51	13.6	33.9
36		64.3	78.3	90	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	144	42.9	52.2	65	17.4	43.3
60		38.6	47	58.5	15.7	39
66		35.1	42.7	53.2	14.2	35.4
72		32.2	39.1	48.8	13	32.5
36		61.7	75	90	25	62.2
42		52.9	64.3	80.1	21.4	53.3
48	150	46.3	56.3	70.1	18.8	46.7
54		41.1	50	62.3	16.7	41.5
60		37	45	56.1	15	37.3
66		33.6	40.9	51	13.6	33.9
72		30.8	37.5	46.8	12.5	31.1
36		59.2	72	89.8	24	59.7
42		50.7	61.7	76.9	20.6	51.2
48		44.4	54	67.3	18	44.8
54		39.5	48	59.8	16	39.8
60		35.5	43.2	53.9	14.4	35.8
66		32.3	39.3	49	13.1	32.6
72		29.6	36	44.9	12	29.9

NOTE:

1. REFER TO SECTION 7.0 THRU 7.6 FOR DETAILS OF ANCHOR REQUIREMENTS. AND DETERMINING MAX. SPAN 'L' AND TRIBUTARY WIDTHS 'W'
2. 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

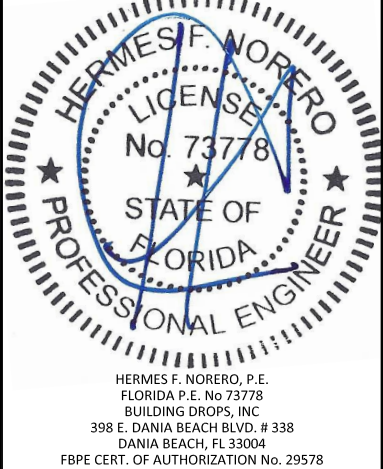
TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
S - ANCHOR CAPACITY TABLE

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.



FL #:
FL25556

DATE: 12.06.17

DWG. BY: RV
CHK. BY: HFN

SCALE: NTS

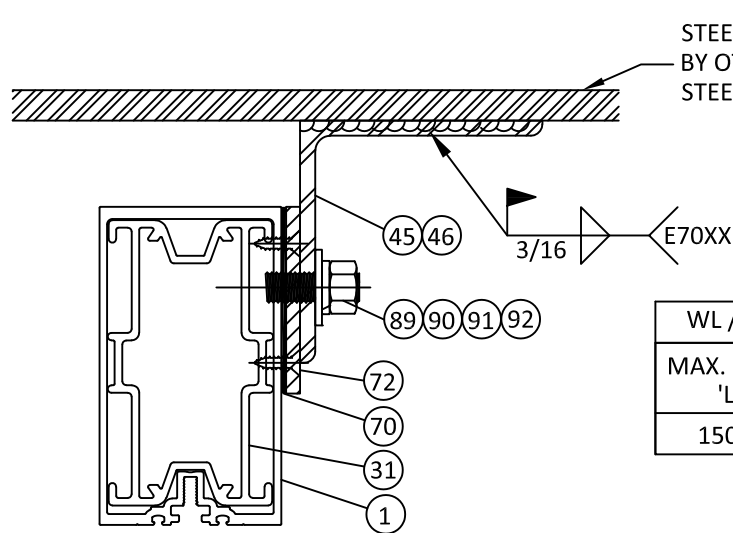
DWG. #: YKK251

SECTION:

7.9

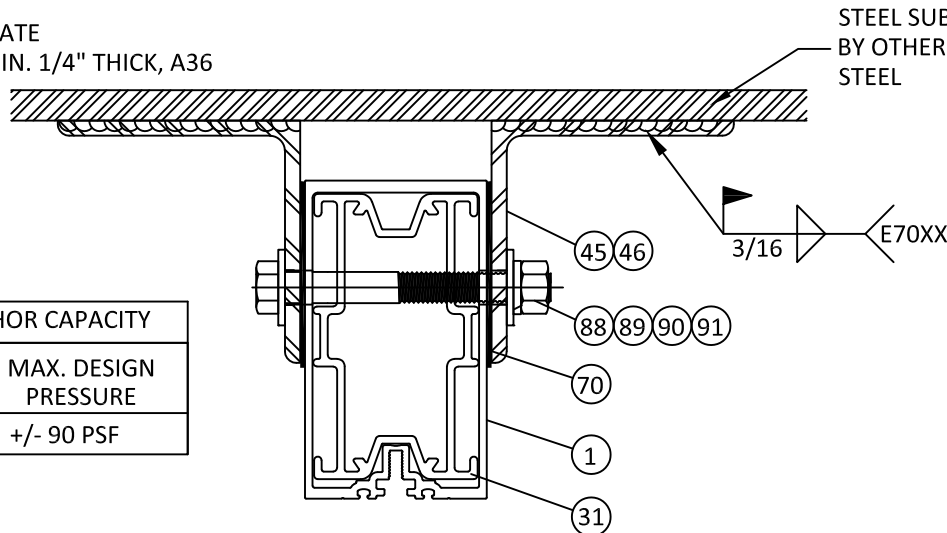
8/20/2020 10:59 PM

s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\1725556\dwgs\ykk 251 - fl17111 dwgs 8 - wind-dead load anchor dtds.dwg

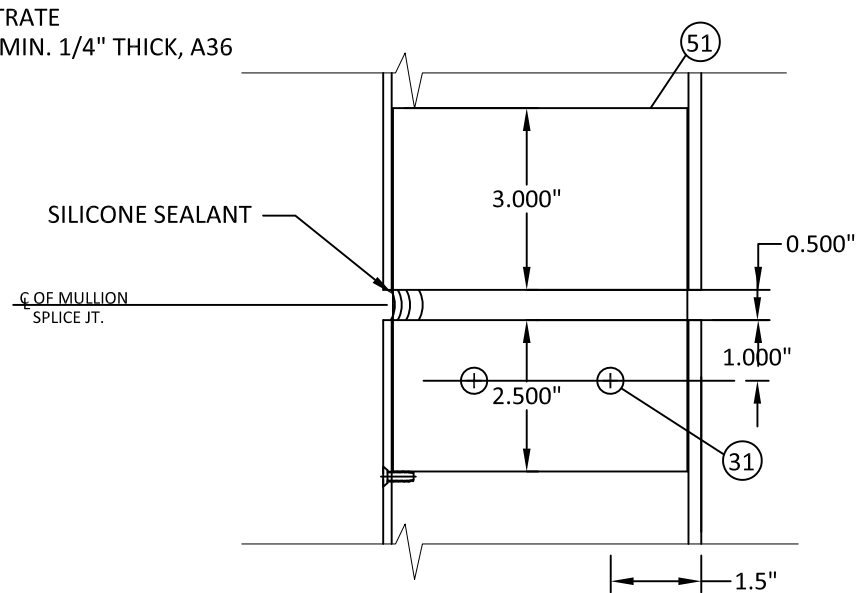


WL / DL ANCHOR CAPACITY	
MAX. SPAN 'L'	MAX. DESIGN PRESSURE
150.5"	+/- 90 PSF

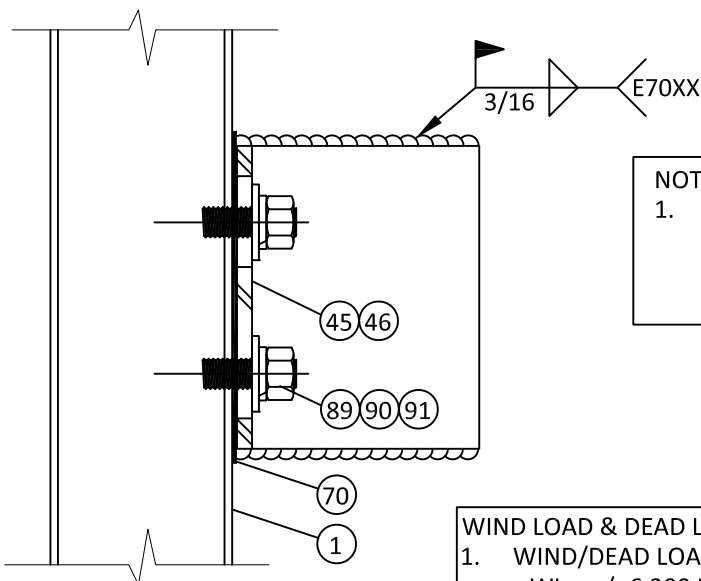
17
8.0 HORIZONTAL SECTION
WIND/DEAD LOAD ANCHOR AT JAMB



18
8.0 HORIZONTAL SECTION
WIND/DEAD LOAD ANCHOR AT VERTICAL MULLION



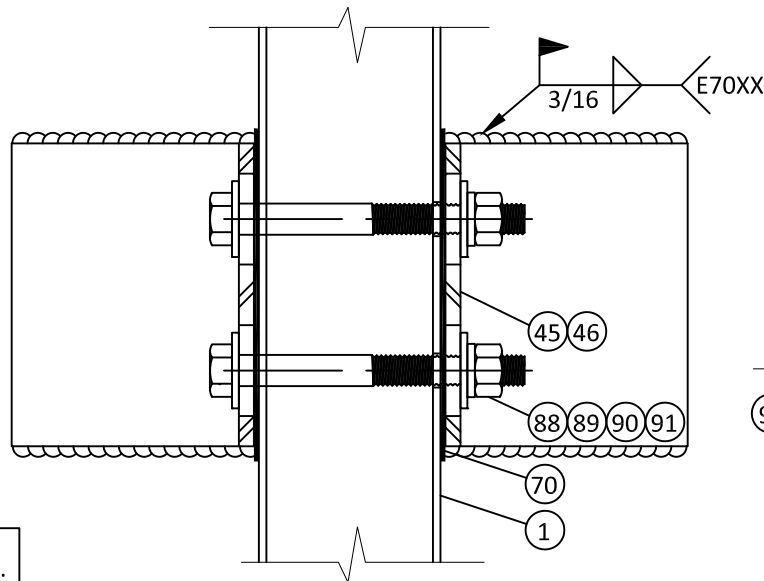
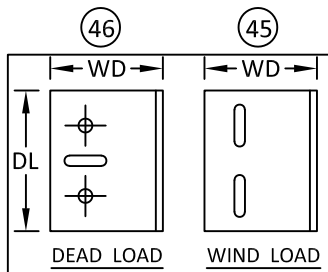
19
8.0 VERTICAL SECTION
WIND/DEAD LOAD ANCHOR MULLION SPLICE



EXTERIOR VIEW
WIND/DEAD LOAD ANCHOR AT JAMB

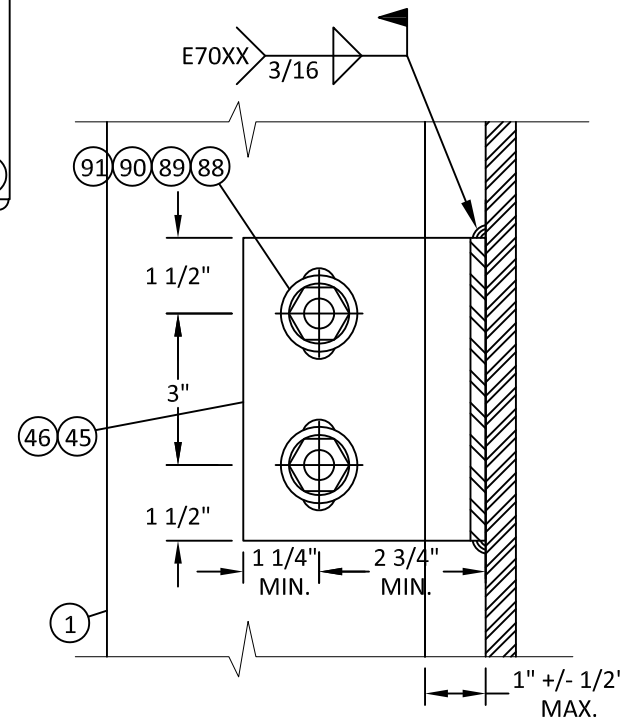
NOTE:
1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH E1-3065 MULLION SPLICE SLEEVE.
THE ANCHORS ARE THE SAME FOR BOTH DEPTHS.

- WIND LOAD & DEAD 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"
 - 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 FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.
 - (2) BOLTS (ITEM #54) SHALL BE THROUGH BOLTED IN STANDARD HOLES AT DEAD LOAD ANCHORS AND MAX. 2" LONG SLOTTED HOLTES AT WIND LOAD ANCHORS.



EXTERIOR VIEW
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 FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.



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



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

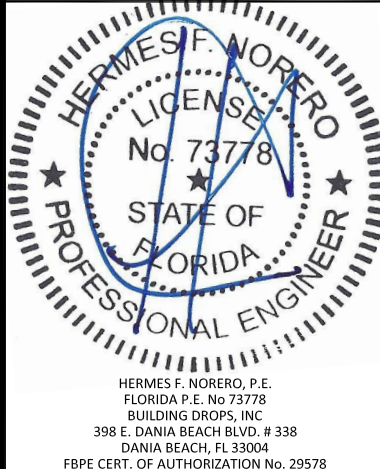
TITLE: YHC 300 SSG CASSETTE CURTAIN WALL SYSTEM - INSULATING GLASS (HVHZ) (IMPACT) WIND LOAD / DEAD LOAD ANCHOR DETAILS

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.



FL #: **FL25556**

DATE: **12.06.17**

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

SCALE: **NTS**

DWG. #: **YKK251**

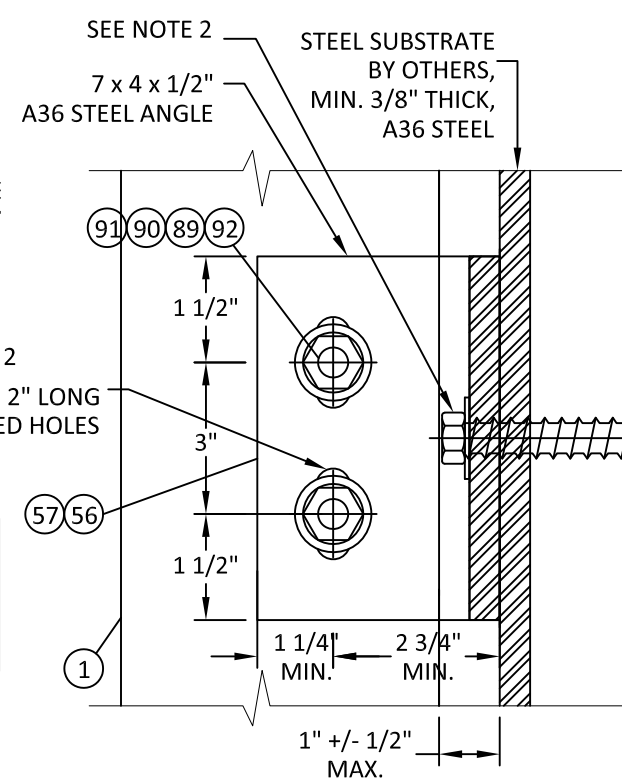
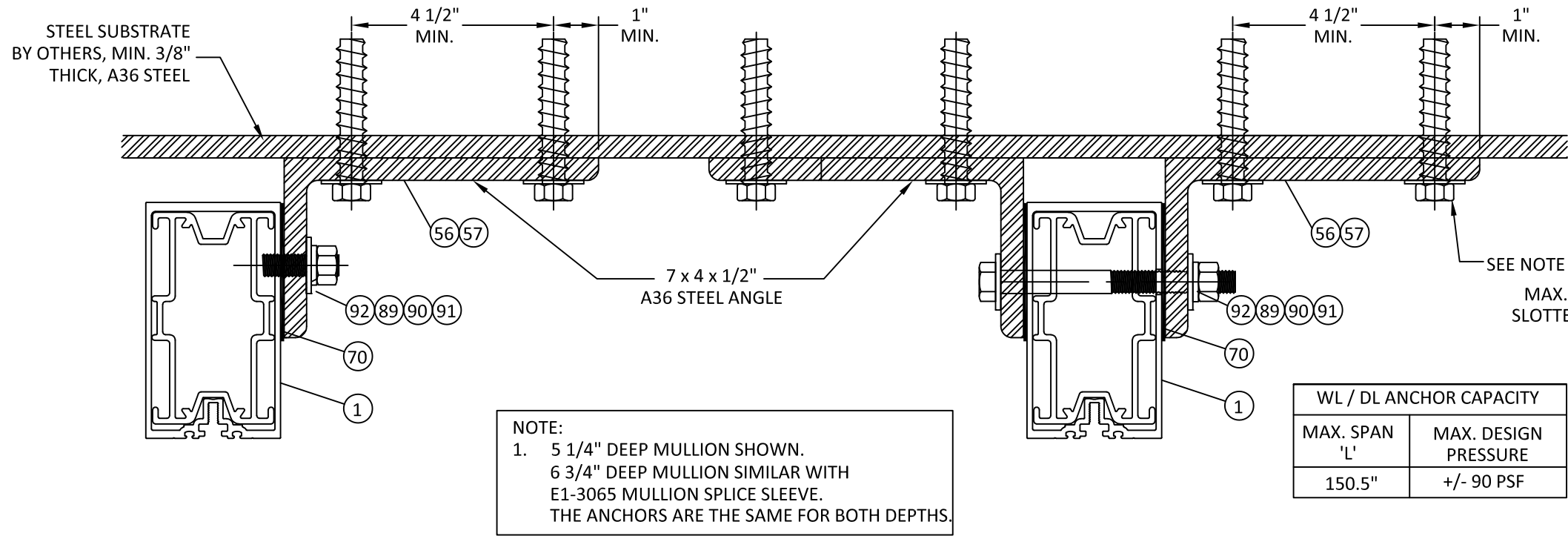
SECTION:

8.0

[SHEET 25 OF 38]

8/20/2020 10:59 PM

s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\1725556\dwgs\ykk 251 - fl17111 dwgs 8 - wind-dead load anchor.dwg



20 HORIZONTAL SECTION

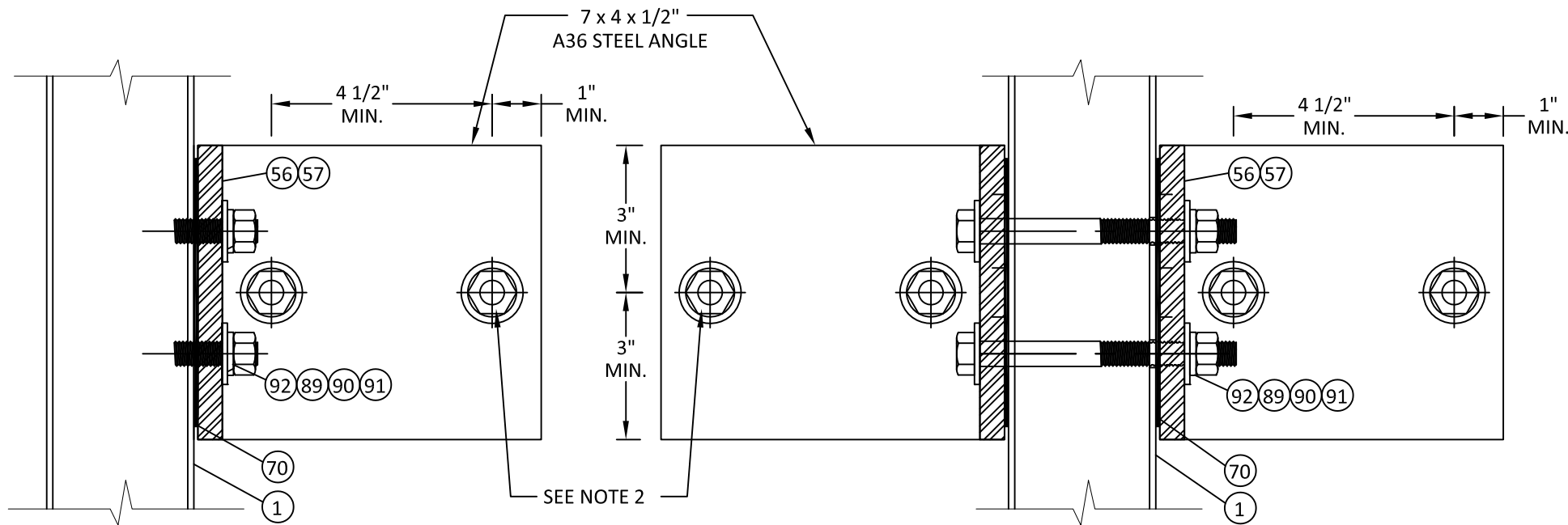
8.1 WIND/DEAD LOAD ANCHOR AT JAMB

21 HORIZONTAL SECTION

8.1 WIND/DEAD LOAD ANCHOR AT VERTICAL MULLION

VERTICAL SECTION

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



EXTERIOR VIEW

WIND/DEAD LOAD ANCHOR AT JAMB

EXTERIOR VIEW

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 FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

- 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"
 - (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.
 - 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" HILTI KWIKBOLT3 ANCHORS PER ANGLE
 - 3 THREADS MIN. PENETRATION
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 4"
 - MIN. 1/4" THICK STEEL



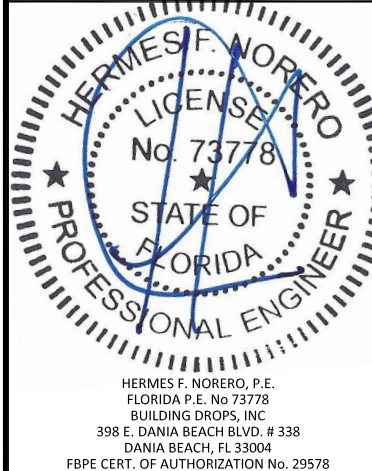
YKK AP AMERICA
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: YHC 300 SSG CASSETTE CURTAIN WALL SYSTEM - INSULATING GLASS (HVHZ) (IMPACT) 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

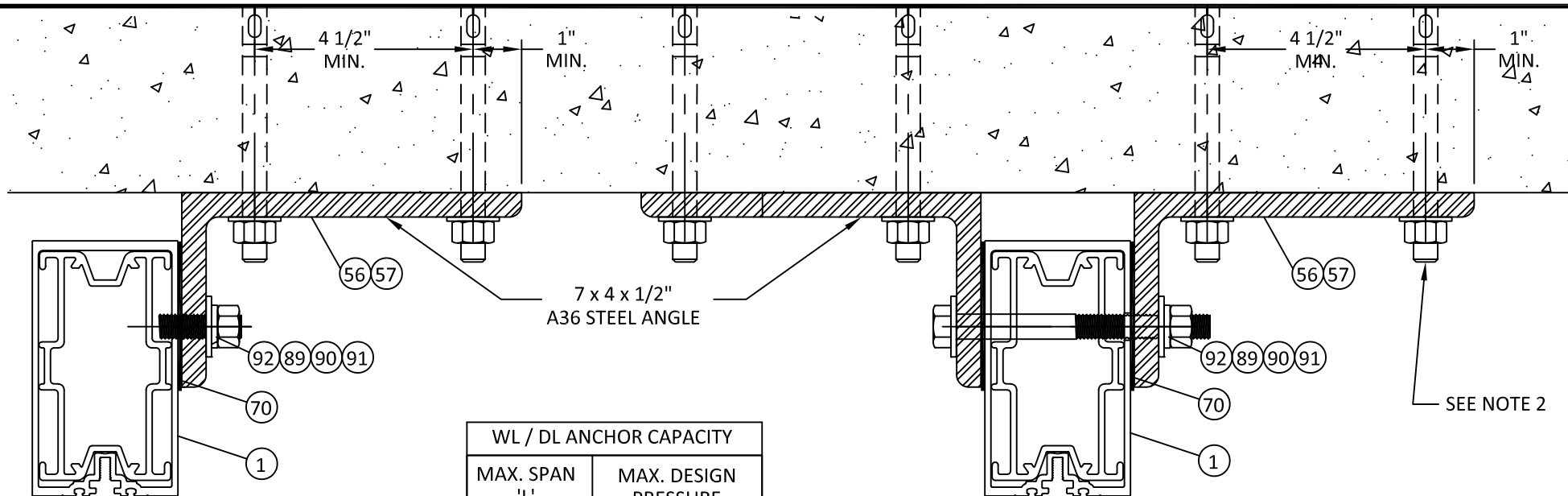
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:	FL25556
DATE:	12.06.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK251
SECTION:	8.1

8/20/2020 10:59 PM

s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\1755556\dwgs\ykk 251 - fl17111 dwgs 8 - wind-dead load anchor dtds.dwg



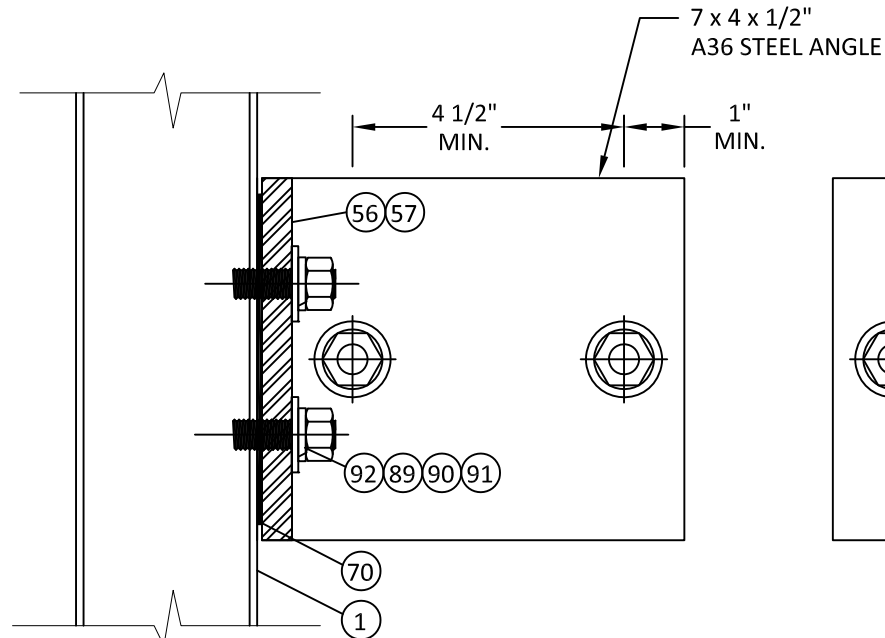
WL / DL ANCHOR CAPACITY	
MAX. SPAN 'L'	MAX. DESIGN PRESSURE
150.5"	+/- 90 PSF

22 HORIZONTAL SECTION

8.2 WIND/DEAD LOAD ANCHOR AT JAMB

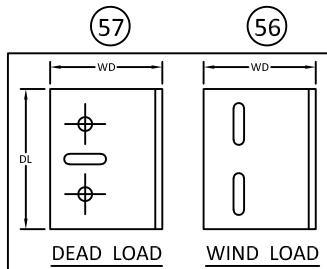
23 HORIZONTAL SECTION

8.2 WIND/DEAD LOAD ANCHOR AT VERTICAL MULLION

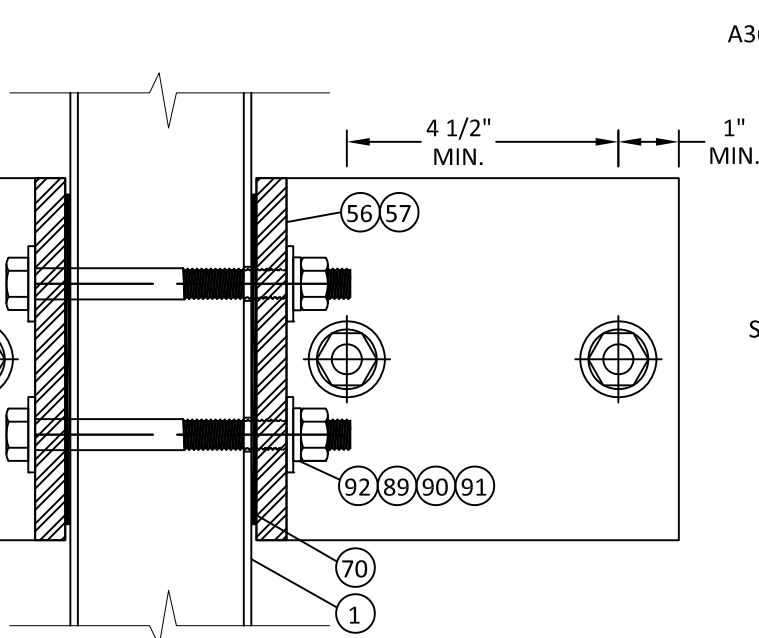


EXTERIOR VIEW

WIND/DEAD LOAD ANCHOR AT JAMB



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 FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

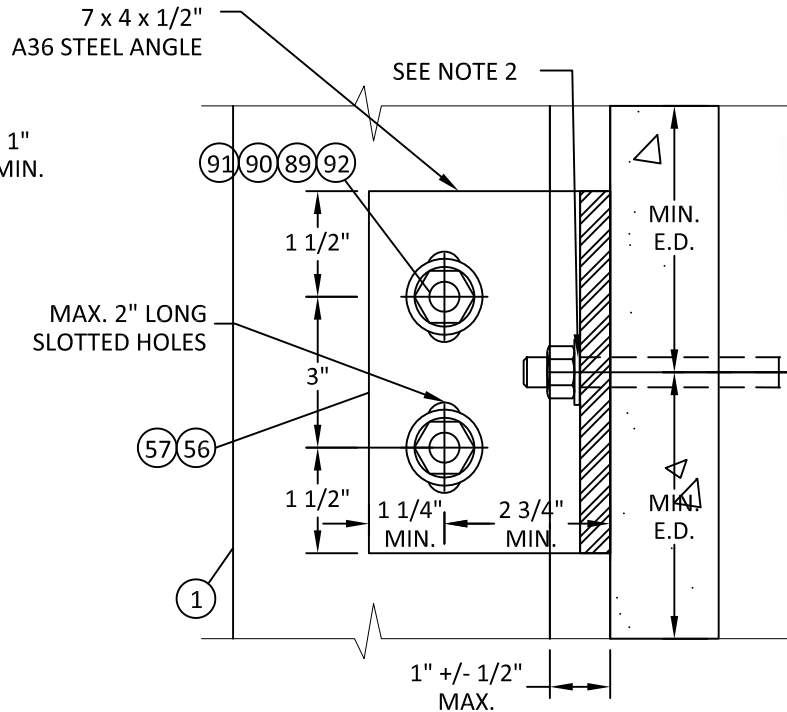


EXTERIOR VIEW

WIND/DEAD LOAD ANCHOR AT VERTICAL MULLION

NOTE:
1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH E1-3065 MULLION SPLICE SLEEVE.
THE ANCHORS ARE THE SAME FOR BOTH DEPTHS.

- WIND 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 KWIKBOLT3 PER ANGLE
 - MIN. EMBEDMENT = 3 1/4"
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 4"
 - MIN. 4000 PSI CONCRETE
 - 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" HILTI KWIKBOLT3 ANCHORS PER ANGLE
 - 3 THREADS MIN. PENETRATION
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 4"
 - MIN. 1/4" THICK STEEL
 - FOR SLABS LESS THAN 8" IN THICKNESS, DESIGN MAY BE PROVIDED ON JOB TO JOB BASIS FOR REVIEW & APPROVAL BY AHJ



VERTICAL SECTION

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



YKK AP AMERICA

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

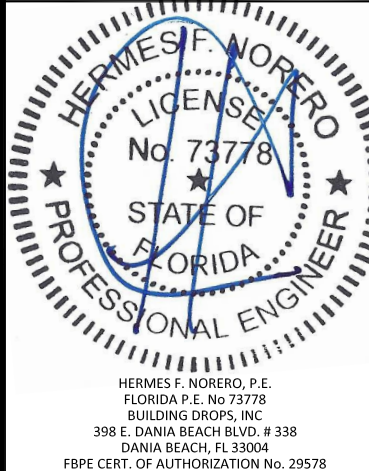
TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
WIND LOAD / DEAD LOAD
ANCHOR DETAILS

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.



FL #:
FL25556

DATE: **12.06.17**

DWG. BY:
RV

CHK. BY:
HFN

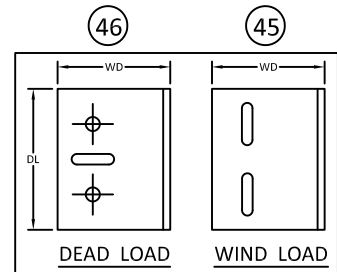
SCALE: **NTS**

DWG. #: **YKK251**

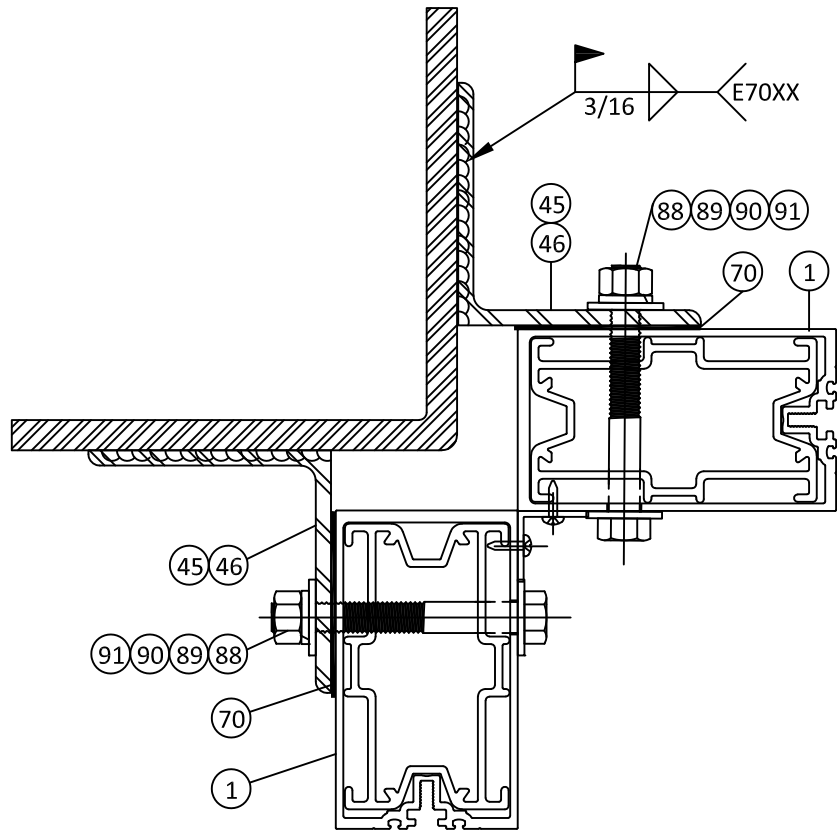
SECTION:

8.2

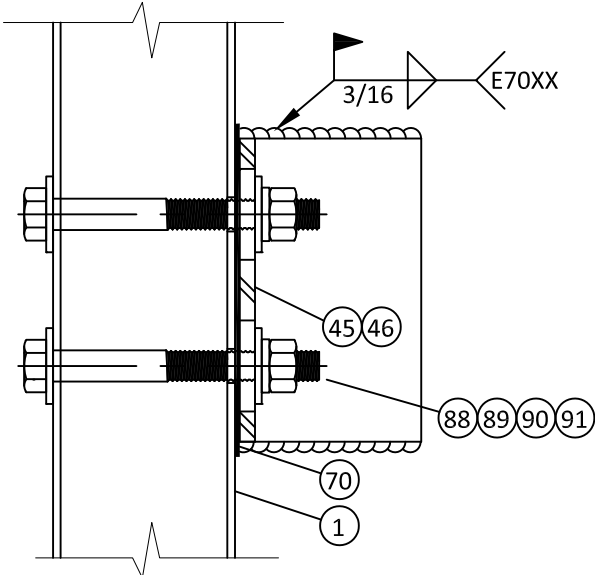
[SHEET 27 OF 38]



NOTE:
1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH
E1-3065 MULLION SPLICE SLEEVE.
THE ANCHORS ARE THE SAME FOR BOTH DEPTHS.



24 **CORNER MULL. ANCH.**
8.3 **ANCHORS INTO METAL STRUCTURES**
LOW/STANDARD PRESSURE MULL



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

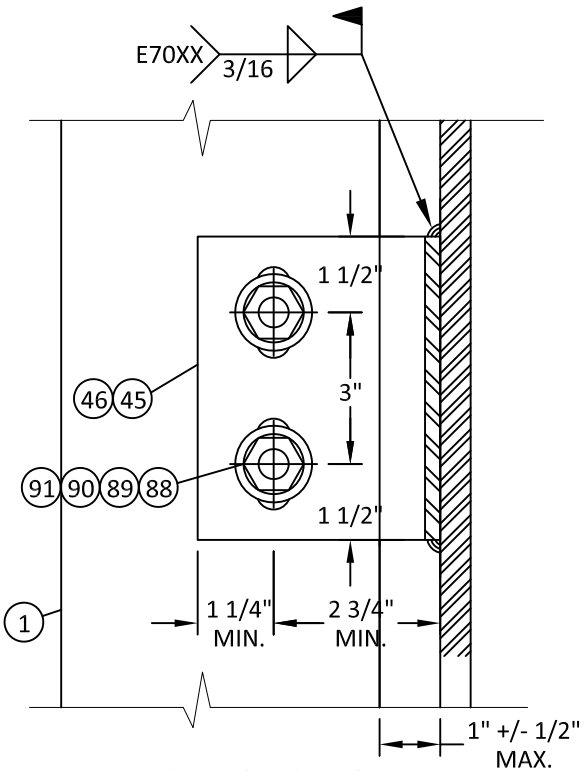
ALL ANGLES AND PLATES
TO BE A-36 STEEL
Fy = 36 KSI MIN.

WIND LOAD ANCHOR

WIND + DEAD LOAD ANCHOR

WL / DL ANCHOR CAPACITY	
MAX. SPAN 'L'	MAX. DESIGN PRESSURE
150.5"	+/- 90 PSF

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
FLORIDA BLDG. CODE BY A FLORIDA
REGISTERED PROFESSIONAL ENGINEER.



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



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

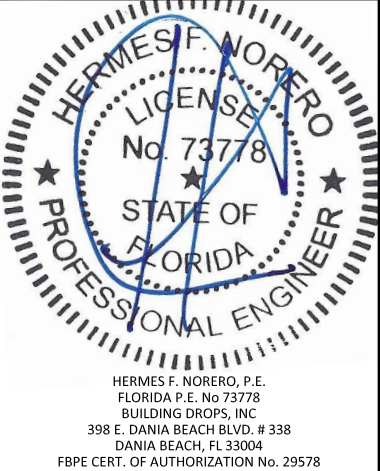
TITLE: YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
WIND LOAD / DEAD LOAD
ANCHOR DETAILS

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.



FL #:
FL25556

DATE: **12.06.17**

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

SCALE: **NTS**

DWG. #: **YKK251**

SECTION:

8.3

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
WIND LOAD / DEAD LOAD
ANCHOR DETAILS

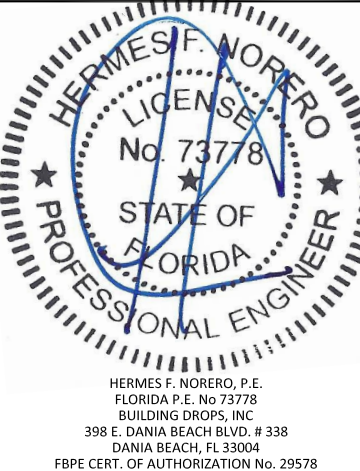
PREPARED BY:

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

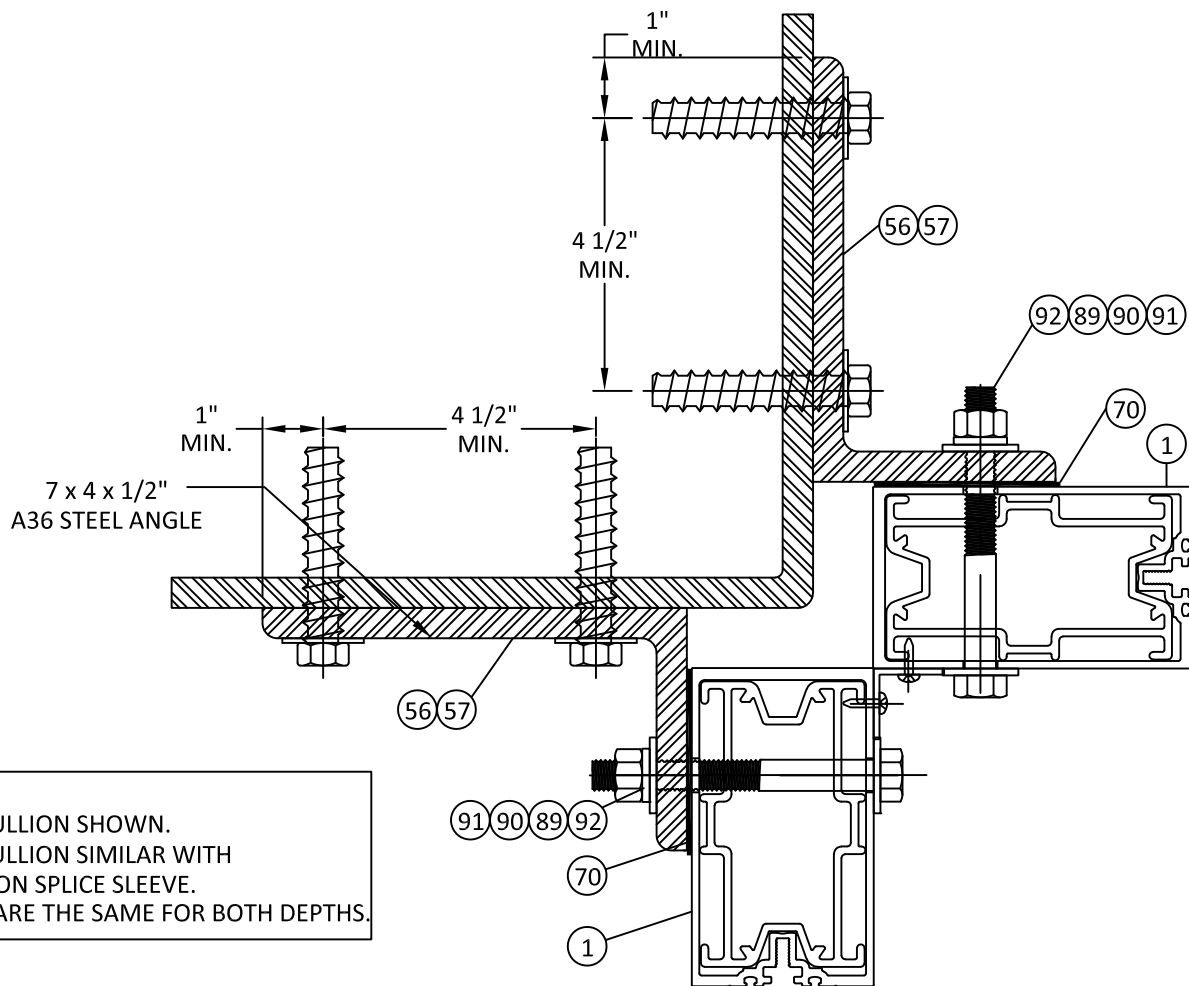


REMARKS	BY	DATE

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.



FL #:	FL25556
DATE:	12.06.17
DWG. BY:	RV
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK251
SECTION:	8.4

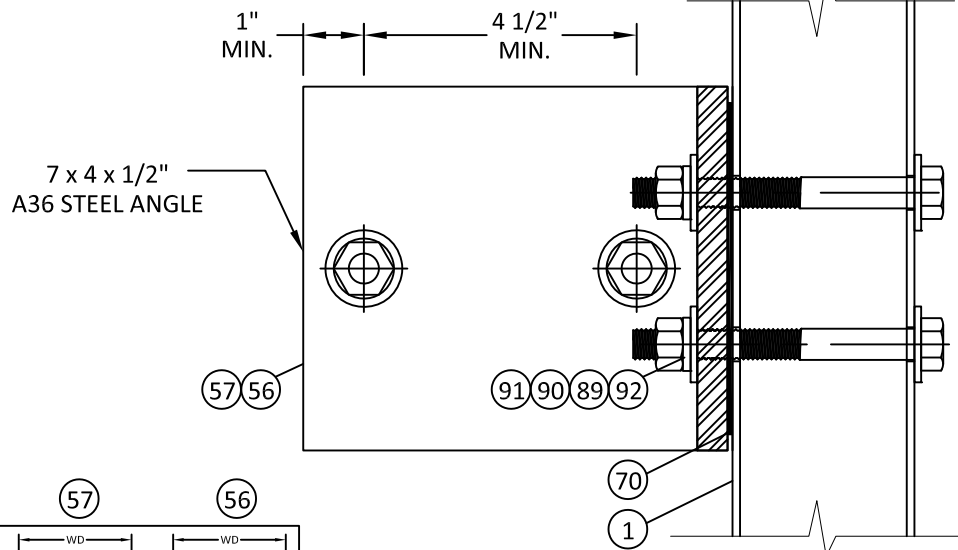


NOTE:
1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH
E1-3065 MULLION SPLICE SLEEVE.
THE ANCHORS ARE THE SAME FOR BOTH DEPTHS.

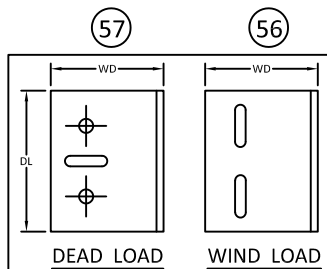
25 CORNER MULL. ANCH. 8.4 ANCHORS INTO METAL STRUCTURES LOW/STANDARD PRESSURE MULL

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"
- (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.
- 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" HILTI KwikBOLT3 ANCHORS PER ANGLE
 - 3 THREADS MIN. PENETRATION
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 4"
 - MIN. 1/4" THICK STEEL



EXTERIOR VIEW
WIND/DEAD LOAD ANCHOR
AT JAMB



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

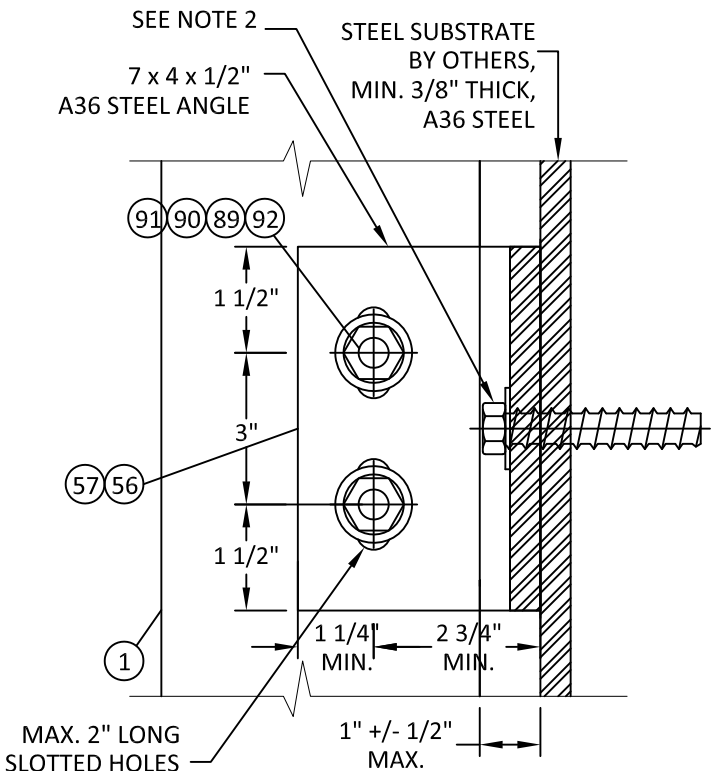
WIND LOAD ANCHOR

WIND + DEAD LOAD ANCHOR

WL / DL ANCHOR CAPACITY

MAX. SPAN 'L'	MAX. DESIGN PRESSURE
150.5"	+/- 90 PSF

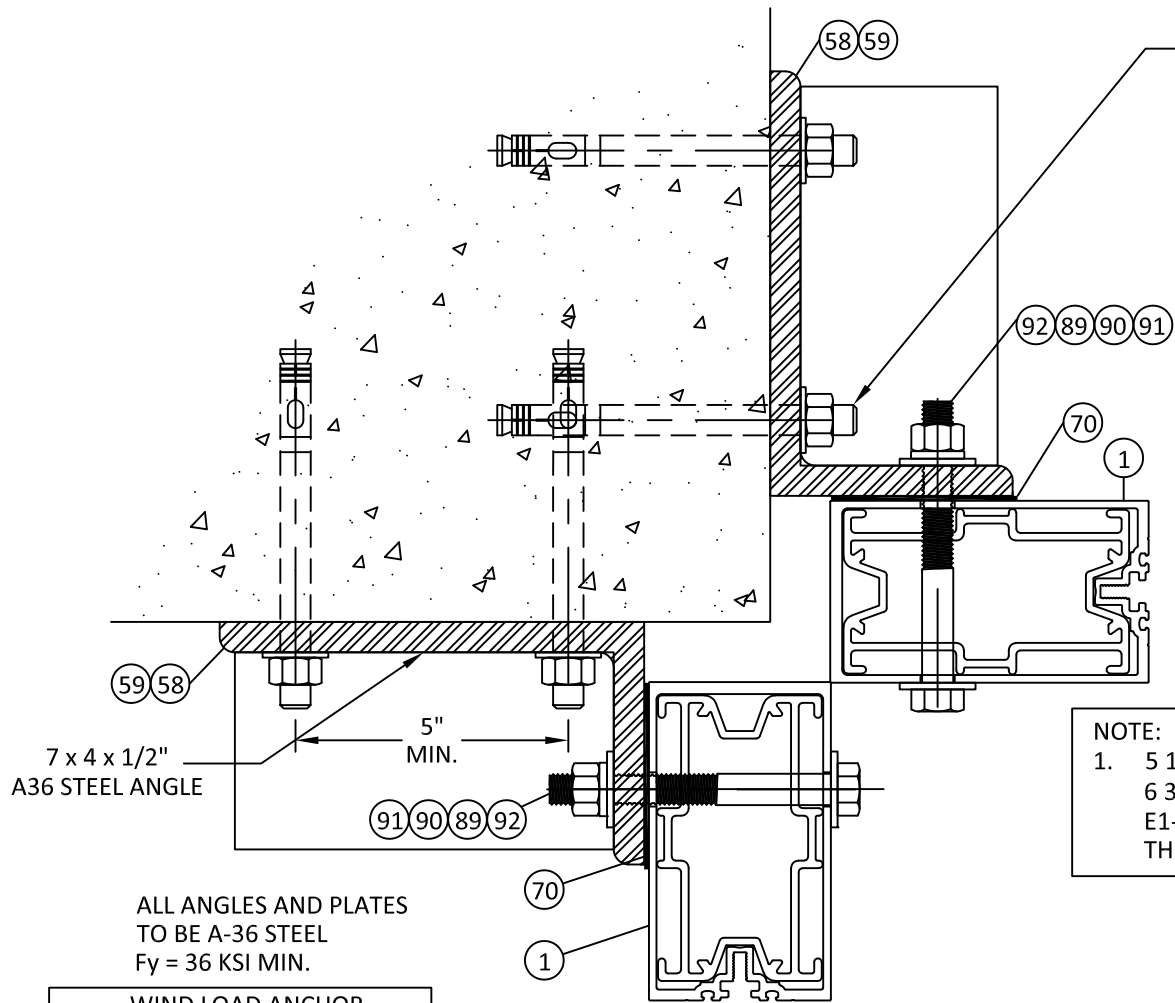
NOTE:
1) ALTERNATE WIND & DEAD LOAD
ANCHORS MAY BE DESIGNED FOR
ALTERNATE SITE CONDITIONS AND
STEEL ANGLE DESIGN ON A JOB TO JOB
BASIS FOR THE APPLICABLE WIND
LOADS AS DETERMINED IN
ACCORDANCE WITH CH. 16 OF THE
FLORIDA BLDG. CODE BY A FLORIDA
REGISTERED PROFESSIONAL ENGINEER.



VERTICAL SECTION

WIND LOAD ANCHOR SHOWN
(DEAD LOAD ANCHOR SIMILAR)
AT STEEL SUBSTRATE

LOW / STANDARD/HIGH PRESSURE CONNECTION



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.

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 FLORIDA BLDG. CODE BY A
FLORIDA REGISTERED PROFESSIONAL
ENGINEER.

NOTE:
1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH
E1-3065 MULLION SPLICE SLEEVE.
THE ANCHORS ARE THE SAME FOR BOTH DEPTHS.

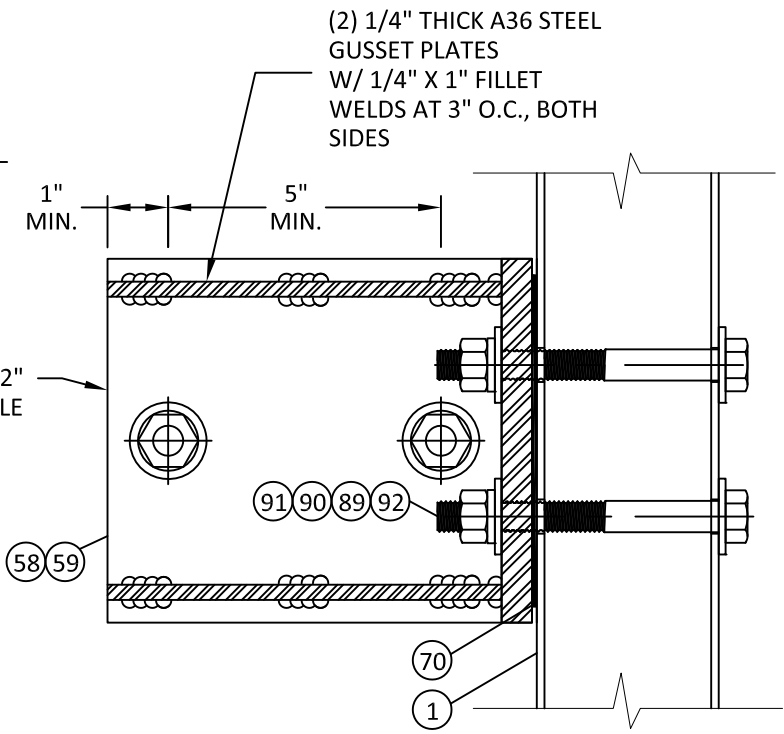
WL / DL ANCHOR CAPACITY	
MAX. SPAN 'L'	MAX. DESIGN PRESSURE
114"	+/- 90 PSF
126"	+/- 90 PSF
138"	+/- 90 PSF
150.5"	+/- 90 PSF

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

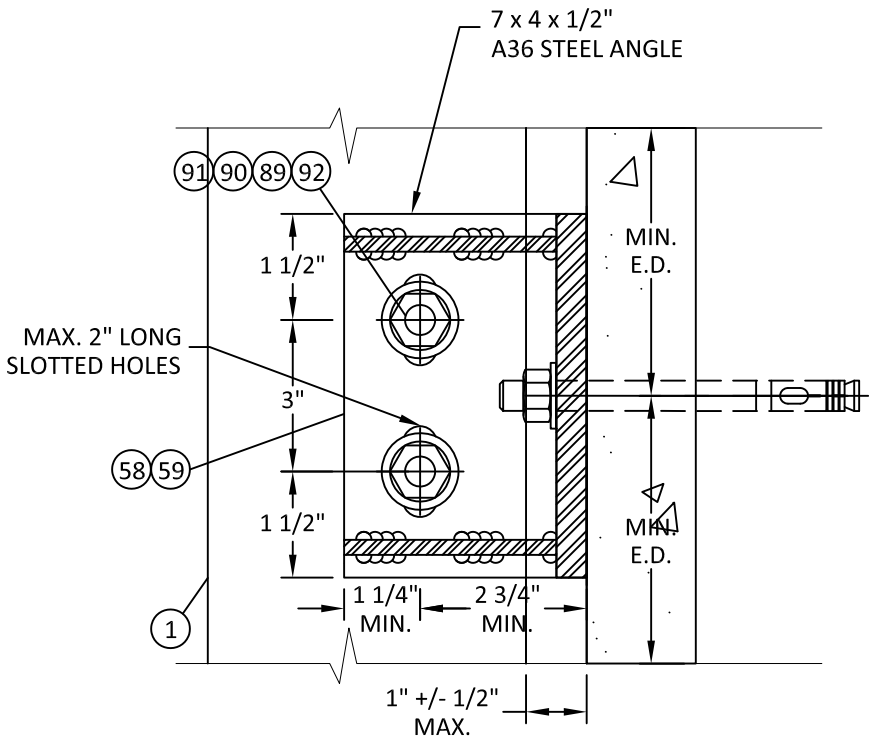
WIND LOAD ANCHOR

WIND + DEAD LOAD ANCHOR

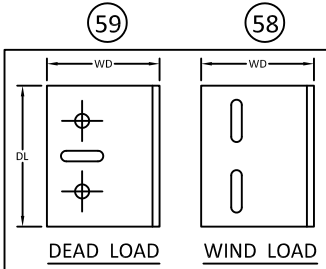
26 CORNER MULL. ANCH.
8.5 ANCHORS INTO METAL STRUCTURES
LOW/STANDARD PRESSURE MULL



EXTERIOR VIEW
WIND/DEAD LOAD ANCHOR
AT JAMB



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



YKK AP AMERICA

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

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
WIND LOAD / DEAD LOAD
ANCHOR DETAILS

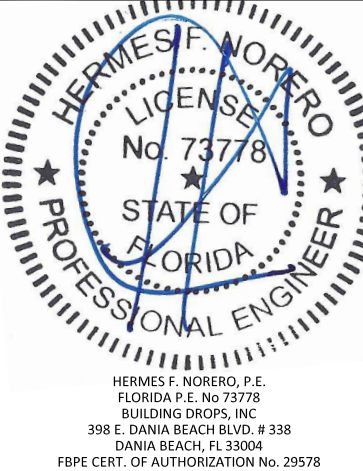
PREPARED BY:
BUILDING DROPS, INC.

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.
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 #:
FL25556

DATE: **12.06.17**

DWG. BY:
RV

CHK. BY:
HFN

SCALE: **NTS**

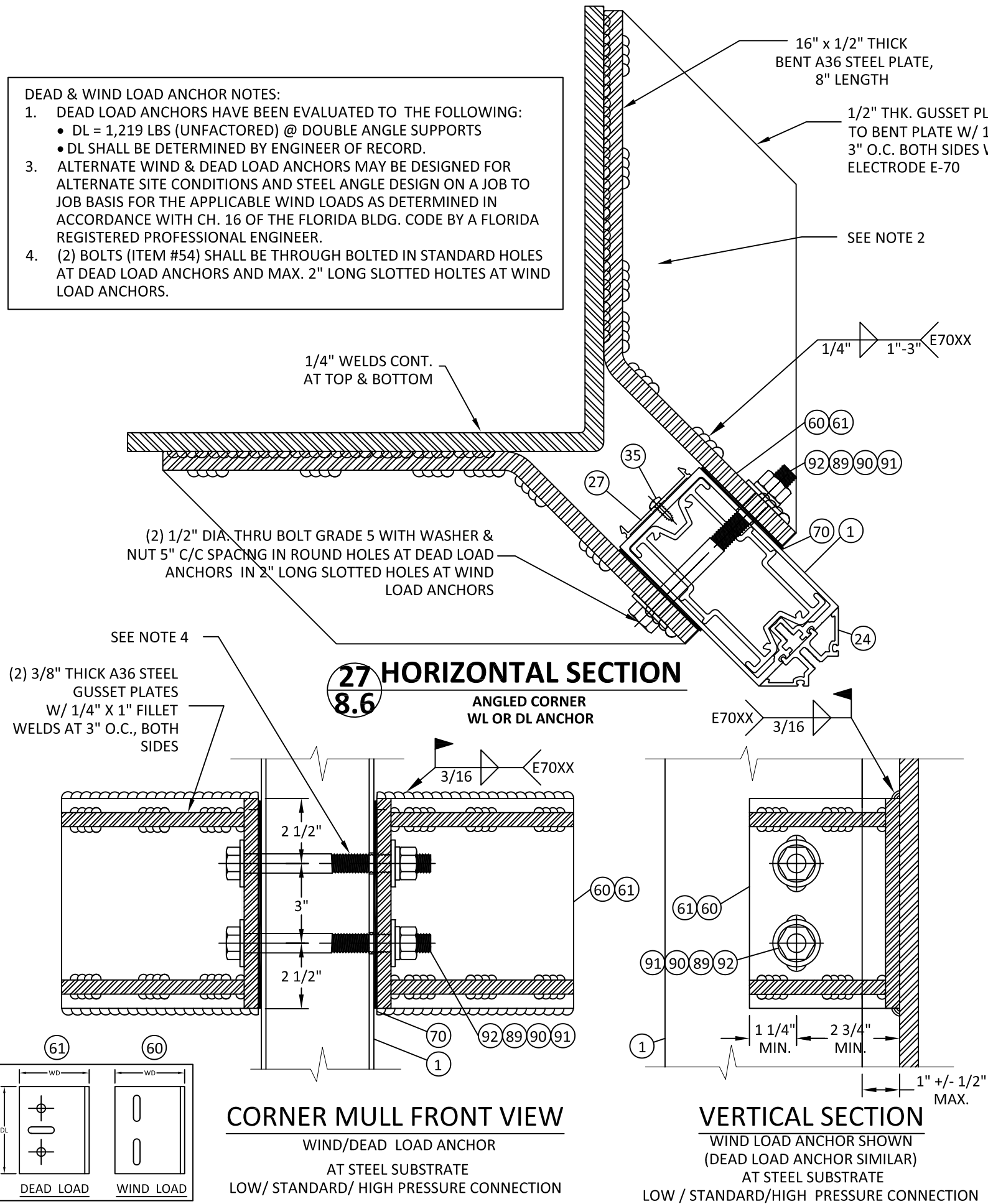
DWG. #: **YKK251**

SECTION:

8.5

DEAD & WIND LOAD ANCHOR NOTES:

1. 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.
3. 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 FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.
4. (2) BOLTS (ITEM #54) SHALL BE THROUGH BOLTED IN STANDARD HOLES AT DEAD LOAD ANCHORS AND MAX. 2" LONG SLOTTED HOLTES AT WIND LOAD ANCHORS.



NOTE:

1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH E1-3065 MULLION SPLICE SLEEVE.
THE ANCHORS ARE THE SAME FOR BOTH DEPTHS.

CORNER MULLION ANCHOR TABLE LIMITED BY ANCHOR CAPACITY (+/- PSF)				
NOMINAL DIMENSIONS		WL ANCHOR TYPE F 'UNCRAKED'	WL ANCHOR TYPE F 'CRACKED'	DL+WL ANCHOR TYPE F 'UNCRAKED'
WIDTH (IN.)	HEIGHT (IN.)			DL+WL ANCHOR TYPE F 'CRACKED'
30	108	90.0	90.0	80.9
36		90.0	78.0	67.5
42		85.7	66.9	57.8
48		75.0	58.5	50.6
54		66.7	52.0	45.0
60	114	60.0	46.8	40.5
30		90.0	88.7	76.7
36		90.0	73.9	63.9
42		81.2	63.3	54.8
48		71.1	55.4	47.9
54	120	63.2	49.3	42.6
60		56.8	44.3	38.3
30		90.0	84.2	72.8
36		90.0	70.2	60.7
42		77.1	60.2	52.0
48	126	67.5	52.7	45.5
54		60.0	46.8	40.5
60		54.0	42.1	36.4
30		90.0	80.2	69.4
36		85.7	66.9	57.8
42	132	73.5	57.3	49.6
48		64.3	50.1	43.4
54		57.1	44.6	38.5
60		50.0	40.0	33.0
30		90.0	76.6	66.2
36	138	81.8	63.8	55.2
42		70.1	54.7	47.3
48		61.4	47.9	41.4
54		54.5	42.5	36.8
60		48.0	38.0	32.0
30	144	90.0	73.3	63.3
36		78.3	61.0	52.8
42		67.1	52.3	45.2
48		58.7	45.8	39.6
54		50.0	40.0	33.0
30	150.5	90.0	70.2	60.7
36		75.0	58.5	50.6
42		64.3	50.1	43.4
48		56.3	43.9	37.9
54		48.0	38.0	32.0
60	156	86.1	67.2	58.1
36		71.8	56.0	48.4
42		61.5	48.0	41.5
48		53.8	42.0	36.3
54		46.0	36.0	30.0



YKK AP AMERICA

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

TITLE: YHC 300 SSG CASSETTE CURTAIN WALL SYSTEM - INSULATING GLASS (HVHZ) (IMPACT) 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.
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 #: FL25556

DATE: 12.06.17

DWG. BY: RV CHK. BY: HFN

SCALE: NTS

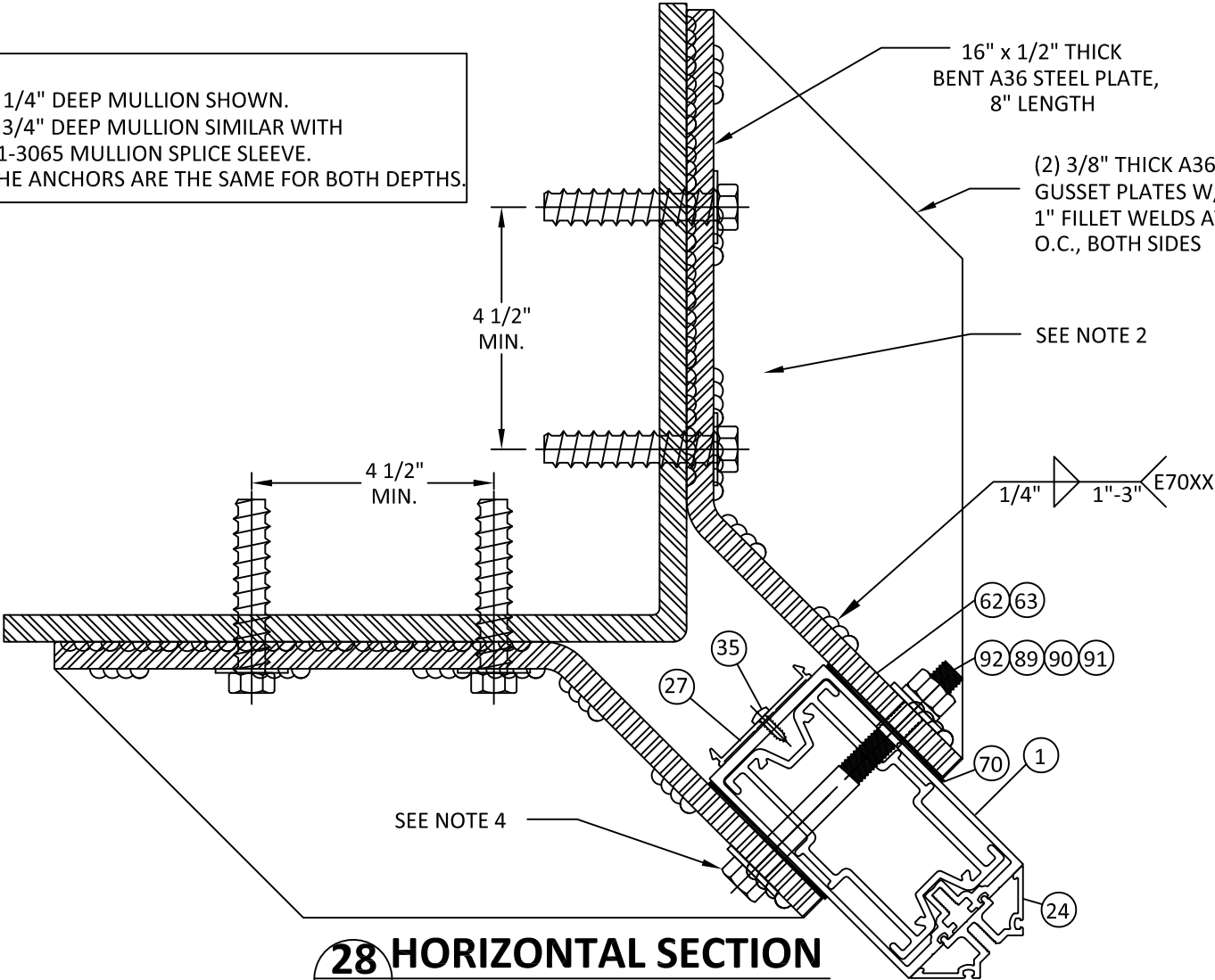
DWG. #: YKK251

SECTION:

8.6

s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\1725556\dwgs\ykk 251 - fl17111 dwgs 8 - wind-dead load anchor dtds.dwg 8/20/2020 10:59 PM

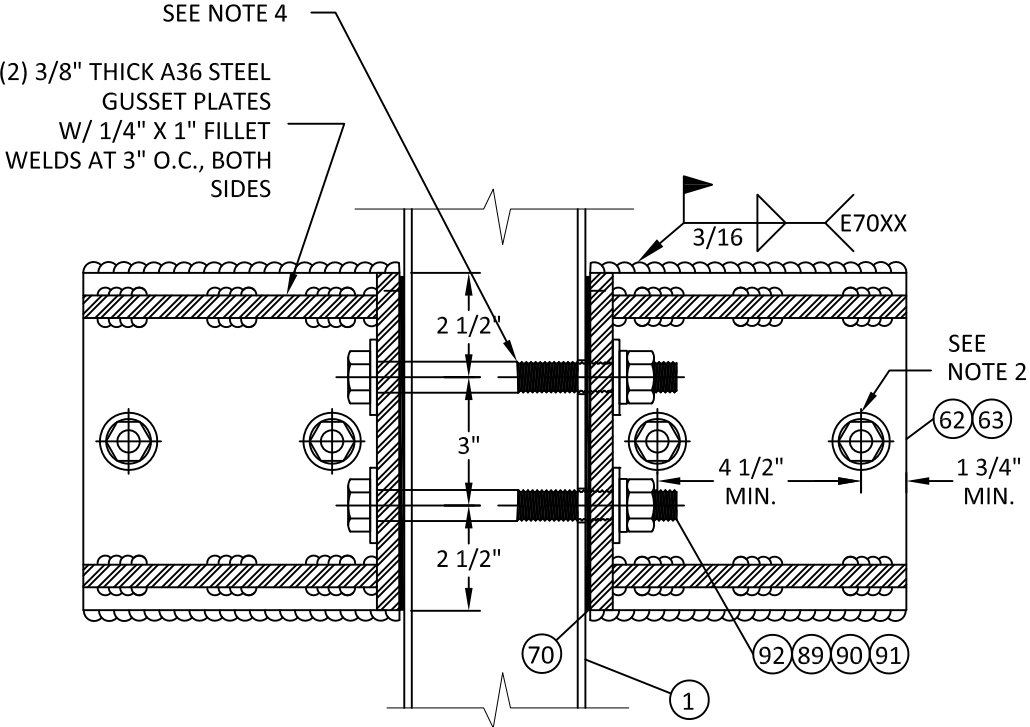
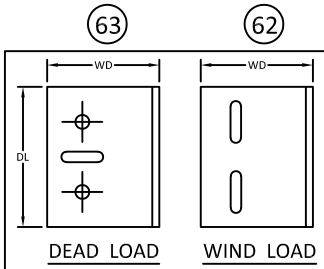
NOTE:
1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH
E1-3065 MULLION SPLICE SLEEVE.
THE ANCHORS ARE THE SAME FOR BOTH DEPTHS.



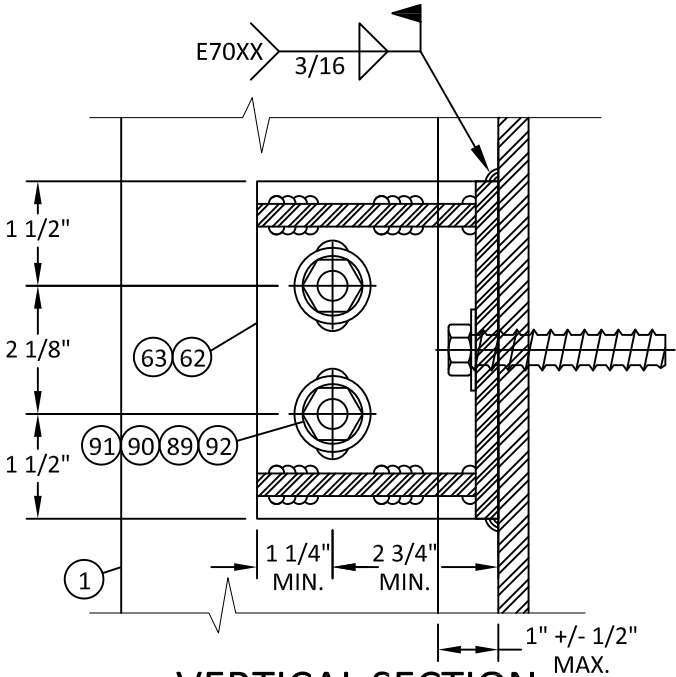
28 HORIZONTAL SECTION
8.7 ANGLED CORNER
WL OR DL ANCHOR

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.
- (2) 1/2" HILTI KWIKBOLT3 ANCHORS PER ANGLE
 - 3 THREADS MIN. PENETRATION
 - MAX. C.C. SPACING = 4 1/2"
 - MIN. EDGE DISTANCE = 4"
 - MIN. 1/4" THICK STEEL
- 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 FLORIDA BLDG. CODE BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.
- (2) BOLTS (ITEM #54) SHALL BE THROUGH BOLTED IN STANDARD HOLES AT DEAD LOAD ANCHORS AND MAX. 2" LONG SLOTTED HOLTES AT WIND LOAD ANCHORS.



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



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



YKK AP AMERICA

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

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
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.
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 #:
FL25556

DATE: **12.06.17**

DWG. BY:
RV

CHK. BY:
HFN

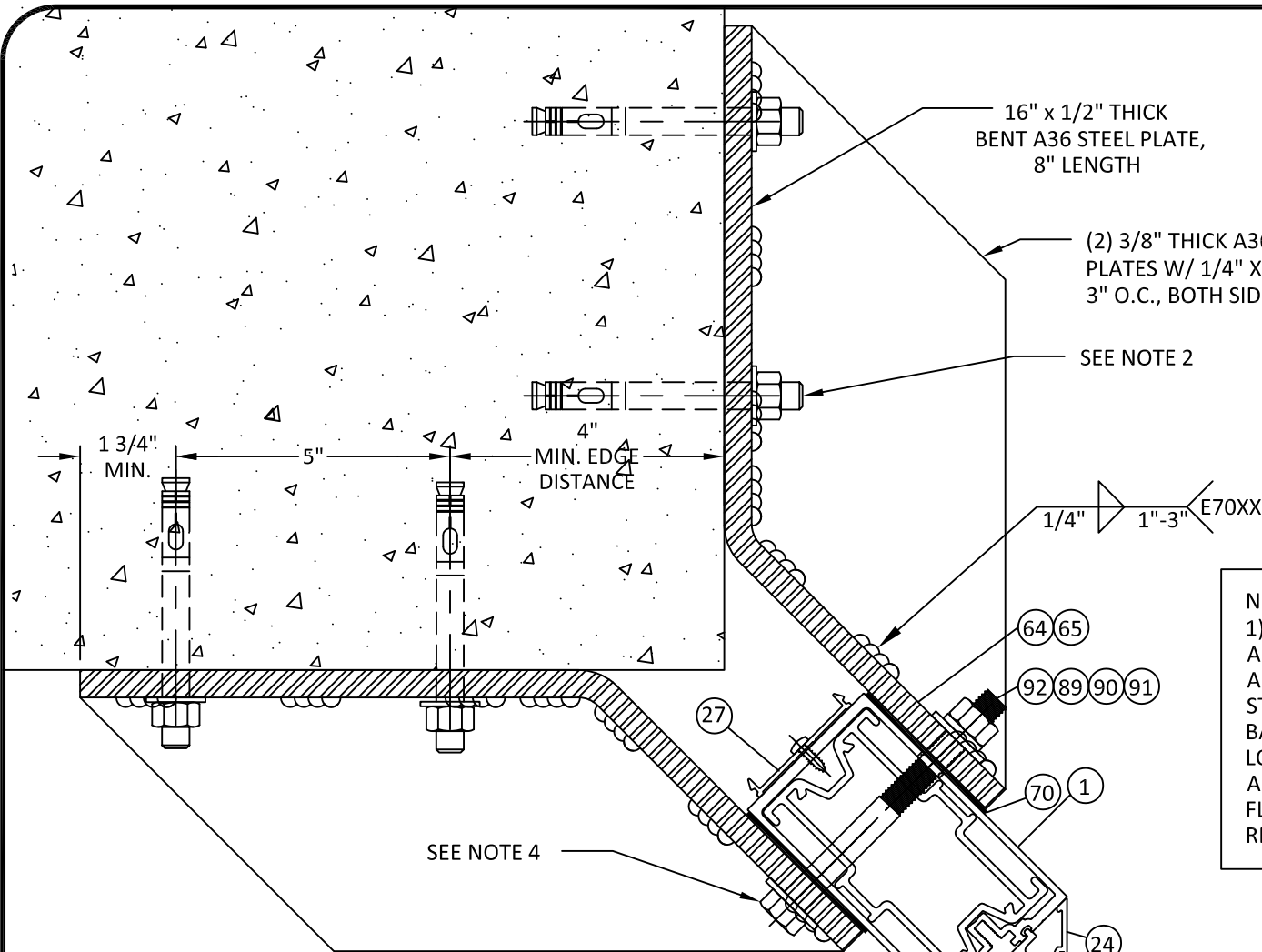
SCALE: **NTS**

DWG. #: **YKK251**

SECTION:

8.7

s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\1725556\dwgs\ykk 251 - fl17111 dwgs 8 - wind-dead load anchor dtds.dwg
8/20/2020 10:59 PM



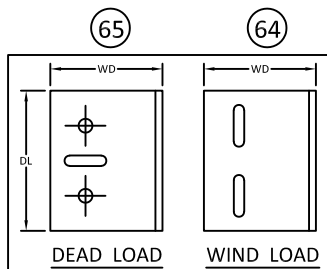
29 HORIZONTAL SECTION 8.8

OUTSIDE CORNER
WL OR DL ANCHOR

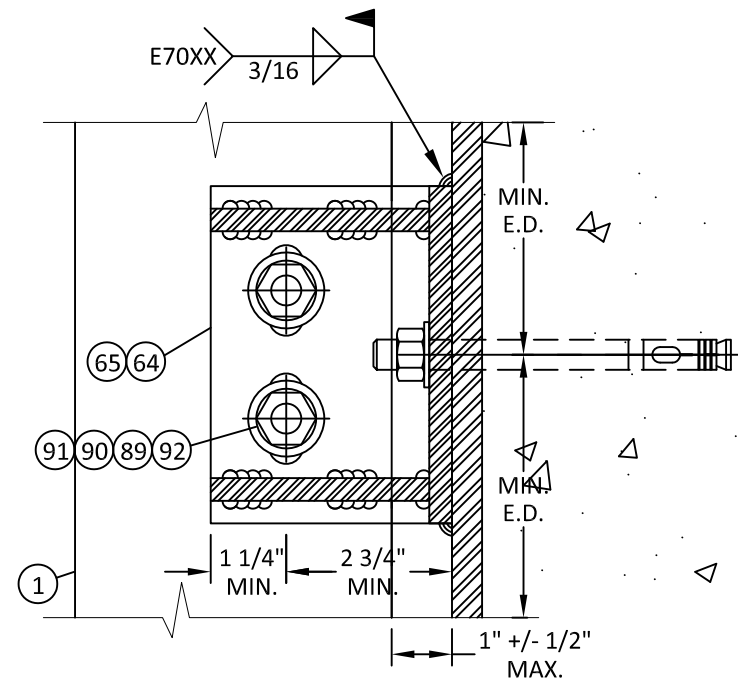
NOTE:
1. 5 1/4" DEEP MULLION SHOWN.
6 3/4" DEEP MULLION SIMILAR WITH
E1-3065 MULLION SPLICE SLEEVE.
THE ANCHORS ARE THE SAME FOR BOTH DEPTHS.

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.
- (2) 1/2" HILTI KWIKBOLT3 ANCHORS PER ANGLE
 - MIN. EMBEDMENT = 3 1/4"
 - MAX. C.C. SPACING = 5"
 - MIN. EDGE DISTANCE = 4"
 - 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 HOLTES AT WIND LOAD ANCHORS.



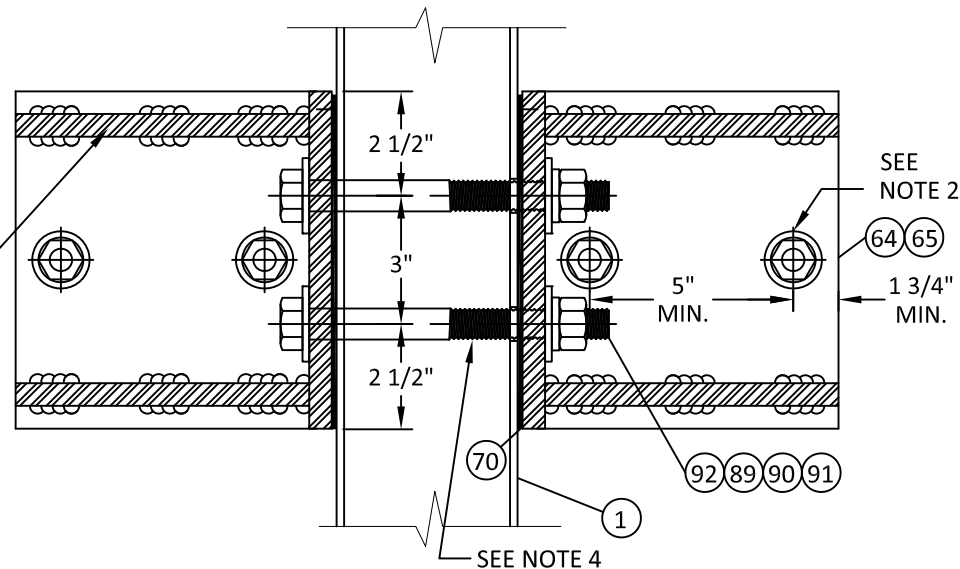
NOTE:
1) ALTERNATE WIND & DEAD LOAD
ANCHORS MAY BE DESIGNED FOR
ALTERNATE SITE CONDITIONS AND
STEEL ANGLE DESIGN ON A JOB TO JOB
BASIS FOR THE APPLICABLE WIND
LOADS AS DETERMINED IN
ACCORDANCE WITH CH. 16 OF THE
FLORIDA BLDG. CODE BY A FLORIDA
REGISTERED PROFESSIONAL ENGINEER.



VERTICAL SECTION

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

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



CORNER MULL FRONT VIEW

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



YKK AP AMERICA

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

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
WIND LOAD / DEAD LOAD
ANCHOR DETAILS

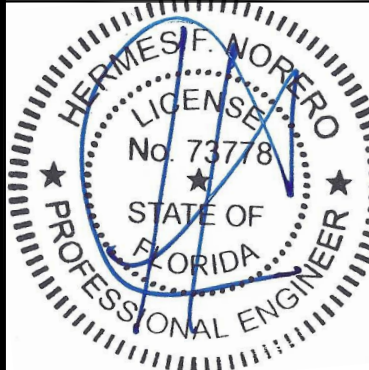
PREPARED BY:
BUILDING DROPS, INC.

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.
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 #:

FL25556

DATE: 12.06.17

DWG. BY:
RV

CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK251

SECTION:

8.8

[SHEET 33 OF 38]

ANCHOR CAPACITIES FOR STANDARD MULLION

WIND LOAD + DEAD LOAD FOR
STANDARD MULLION

MAXIMUM DESIGN PRESSURE - LIMITED BY ANCHOR CAPACITY (+/- PSF)			
NOMINAL DIMENSIONS		ANCHOR TYPE A 'UNCRACKED'	ANCHOR TYPE A '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	85.9
60	114	90.0	77.3
30		90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	81.4
60		85.4	73.3
30	120	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	87.0
54		90.0	77.3
60	126	81.1	69.6
30		90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	82.9
54	132	85.8	73.7
30		90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	79.1
54	138	81.9	70.3
30		90.0	90.0
36		90.0	90.0
42		90.0	86.5
48		88.2	75.7
30	144	90.0	90.0
36		90.0	90.0
42		90.0	82.9
48		84.5	72.5
30	150.5	90.0	90.0
36		90.0	90.0
42		90.0	79.3
48		80.9	69.4

WIND LOAD FOR STANDARD
MULLION

MAXIMUM DESIGN PRESSURE - LIMITED BY ANCHOR CAPACITY (+/- PSF)			
NOMINAL DIMENSIONS		ANCHOR TYPE F 'UNCRACKED'	ANCHOR TYPE F '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	85.3
30		90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54	120	90.0	89.8
60		90.0	80.8
30		90.0	90.0
36		90.0	90.0
42		90.0	90.0
48	126	90.0	90.0
54		90.0	85.3
60		88.8	76.8
30	132	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	90.0
54		90.0	81.3
30	138	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	87.3
54		89.7	77.6
30	144	90.0	90.0
36		90.0	90.0
42		90.0	90.0
48		90.0	80.0
30	150.5	90.0	90.0
36		90.0	90.0
42		90.0	87.5
48		88.5	76.5



YKK AP AMERICA

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

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
WIND LOAD / DEAD LOAD
ANCHOR DETAILS

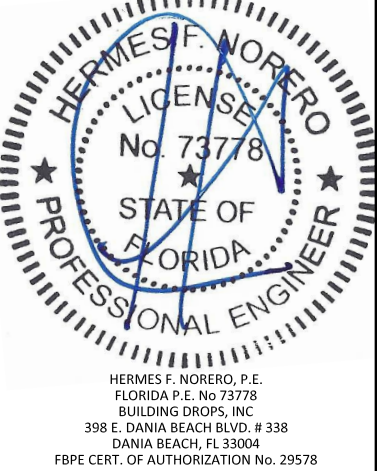
PREPARED BY:

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.



FL #:
FL25556

DATE: 12.06.17

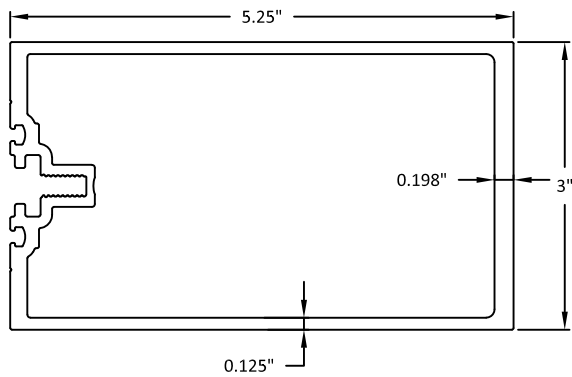
DWG. BY: RV
CHK. BY: HFN

SCALE: NTS

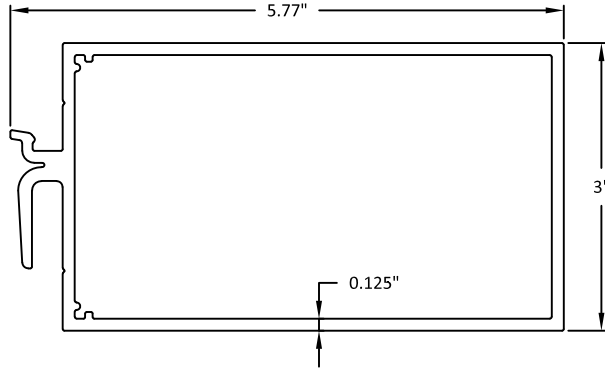
DWG. #: YKK251

SECTION:

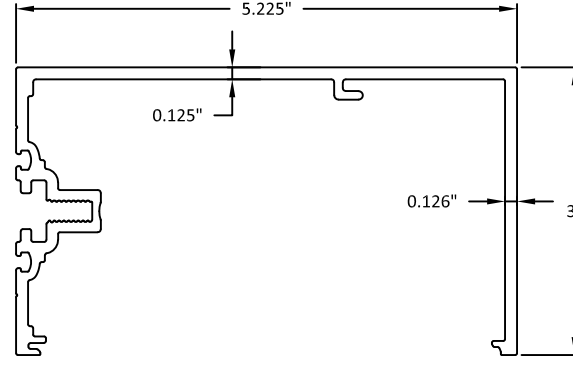
8.9



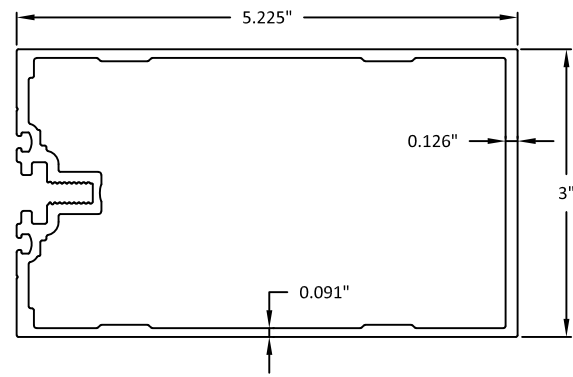
① VERTICAL/HORIZONTAL



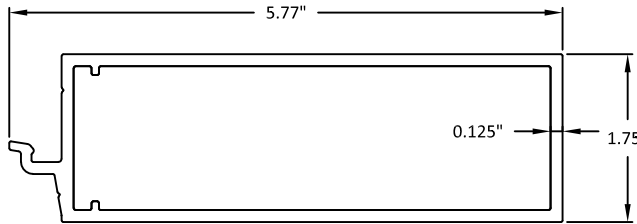
② TUBULAR HORIZONTAL



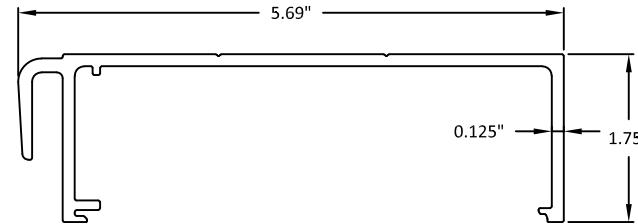
③ OPEN BACK HEAD/SILL



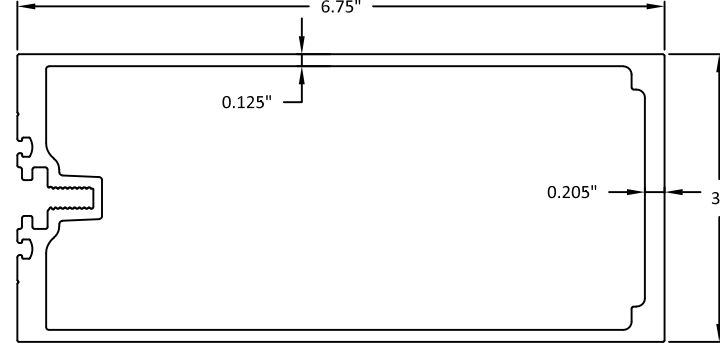
④ LIGHT DUTY VERTICAL/HORIZONTAL



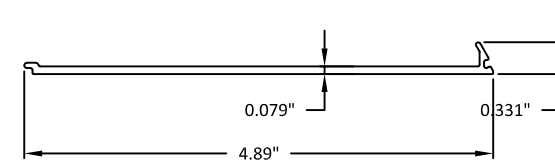
⑤ EXPANSION HORIZONTAL (TOP)



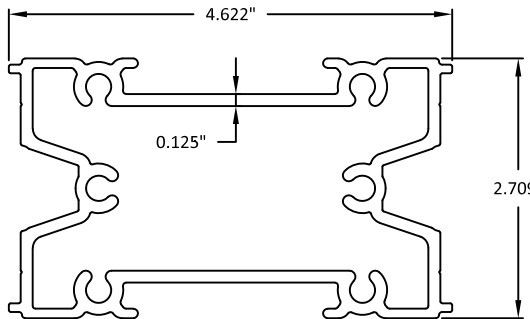
⑥ EXPANSION HORIZONTAL (BOTTOM)



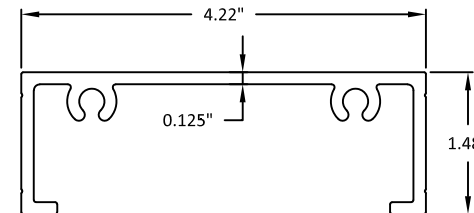
⑦ HEAVY DUTY VERTICAL/HORIZONTAL



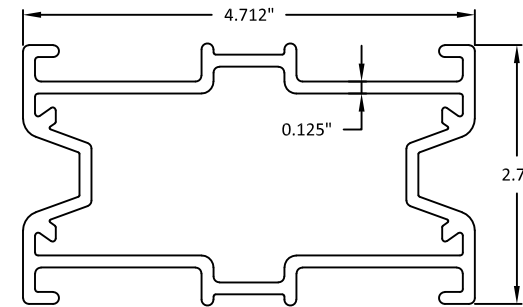
⑧ HORIZONTAL FLUSH FILLER



⑨ STANDARD SHEAR BLOCK

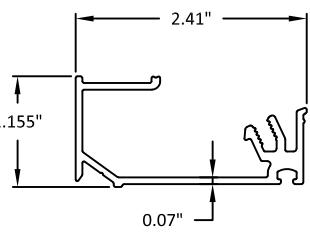


⑩ SHEAR BLOCK

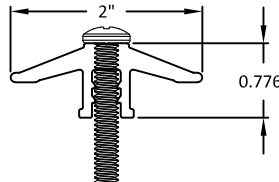


⑪ ANCHOR SLEEVE AT TOP & BOTTOM OF VERTICALS

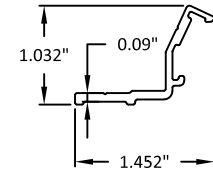
⑫ MULLION SPLICE SLEEVE



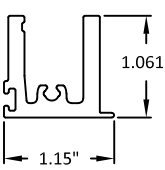
⑬ SILL TRIM



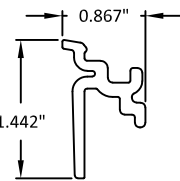
⑭ TOGGLE BAR ASSEMBLY



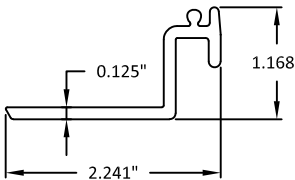
⑮ PERIMETER TRIM CLIP



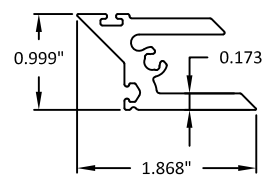
⑯ CASSETTE PERIMETER (TAPED)



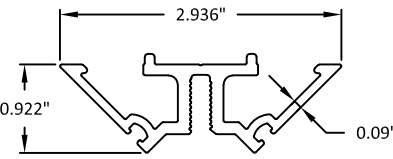
⑰ HORIZONTAL ADAPTOR



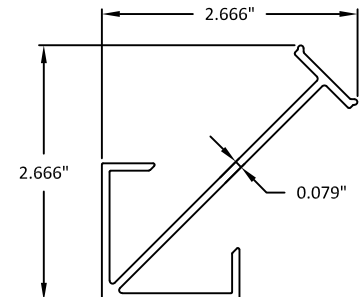
⑱ SETTING BLOCK CHAIR



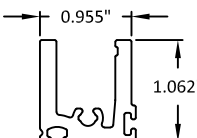
⑲ CORNER PERIMETER CASSETTE (GASKETED)



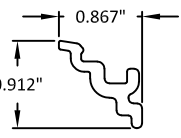
⑳ 90° OUTSIDE GLAZING ADAPTOR



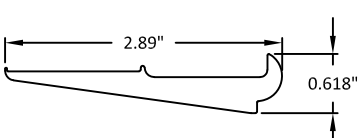
㉑ 90° OUTSIDE CORNER ADAPTOR



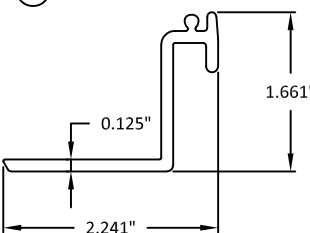
㉒ CASSETTE PERIMETER (GASKETED)



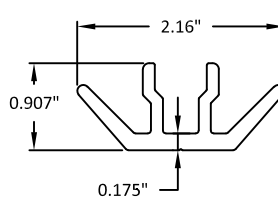
㉓ SILL ADAPTOR



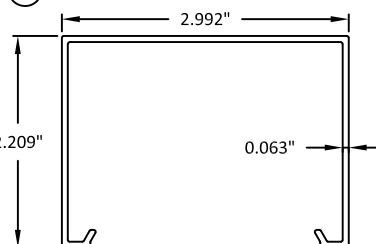
㉔ SETTING BLOCK CHAIR



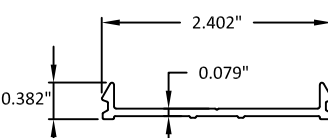
㉕ SETTING BLOCK CHAIR



㉖ 90° OUTSIDE CORNER TOGGLE BAR



㉗ CORNER INTERIOR COVER



㉘ 90° OUTSIDE CORNER INTERIOR COVER BASE



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

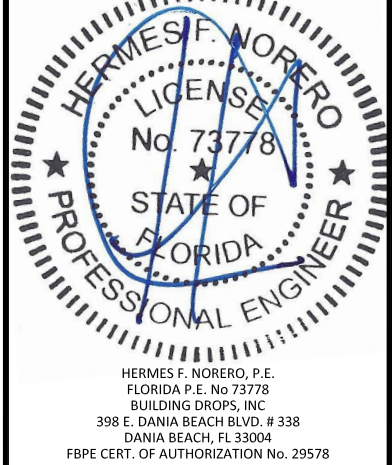
TITLE: YHC 300 SSG CASSETTE CURTAIN WALL SYSTEM - INSULATING GLASS (HVHZ) (IMPACT) COMPONENTS

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

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 #: **FL25556**

DATE: **12.06.17**

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

SCALE: **NTS**

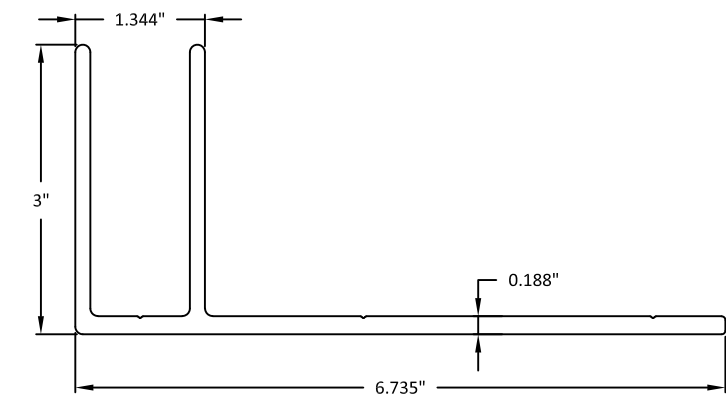
DWG. #: **YKK251**

SECTION:

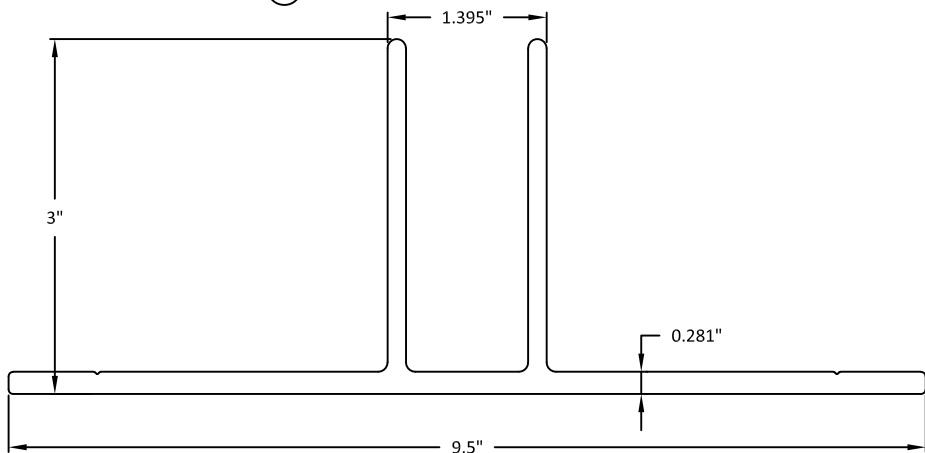
9.0

8/20/2020 10:54 PM

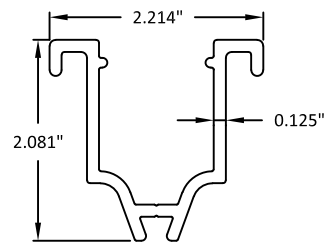
s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\fl255556\dwgs\ykk 251 - fl17111 dwgs 1-6 & 9.dwg



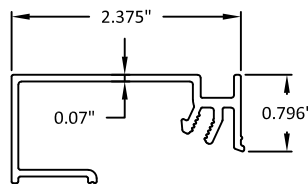
38 JAMB "F" ANCHOR



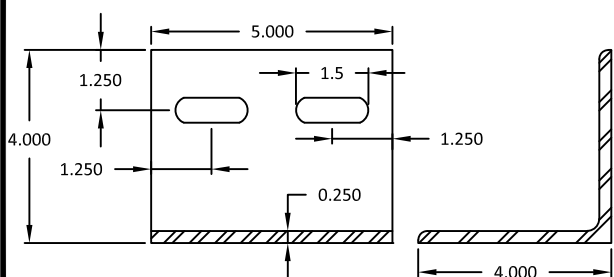
39 INTERMEDIATE VERTICAL "T" ANCHOR



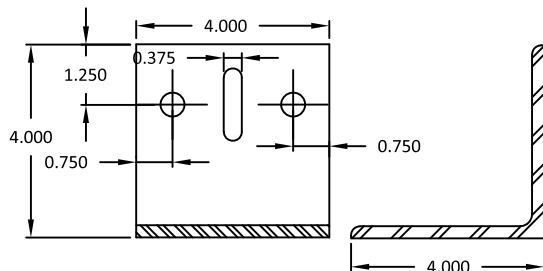
71 ANCHOR / SPLICE SLEEVE EXTENSION



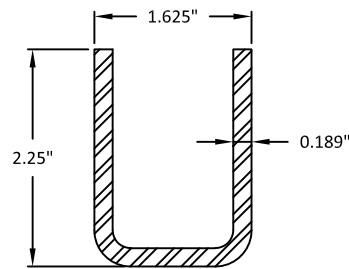
75 PERIMETER TRIM FOR 1 5/16" GLASS



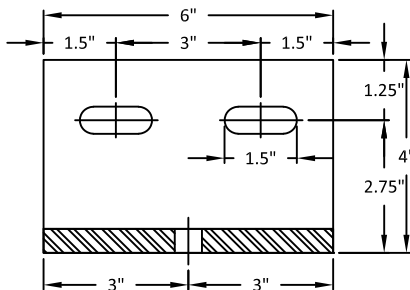
45 WIND LOAD ANCHOR



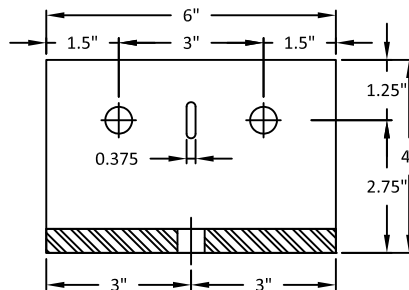
46 DEAD LOAD ANCHOR



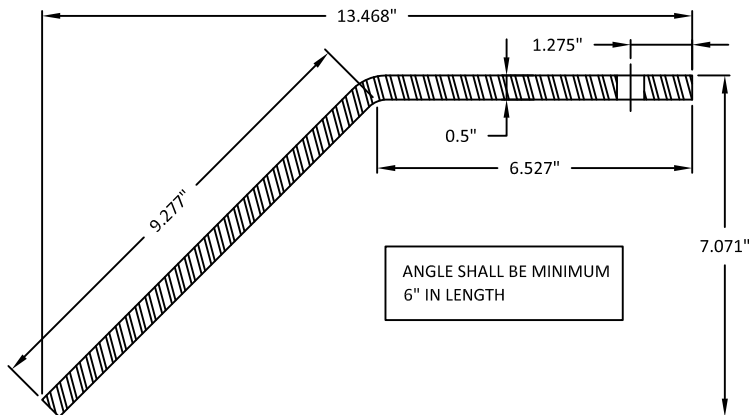
40 DOOR JAMB ANCHOR



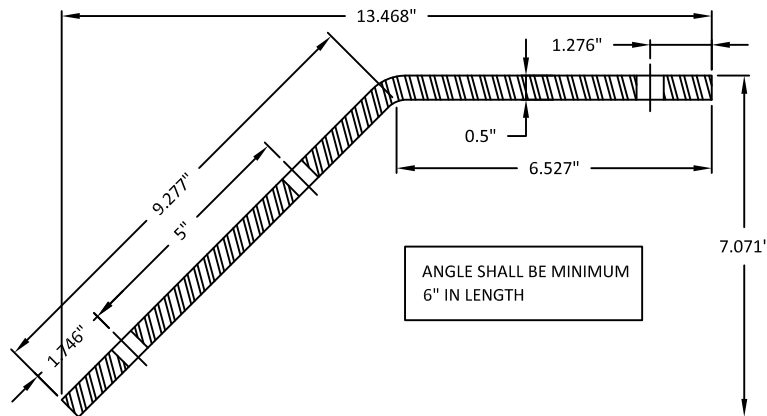
56 WIND LOAD ANCHOR



57 DEAD LOAD ANCHOR



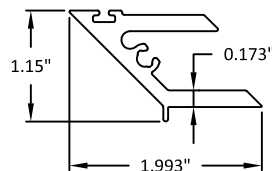
60 WIND LOAD ANCHOR



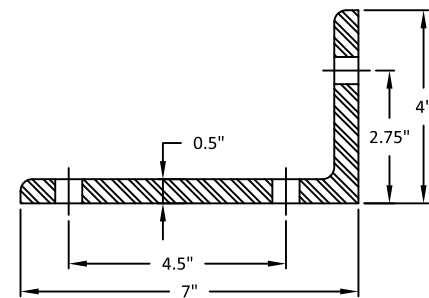
61 DEAD LOAD ANCHOR

64 WIND LOAD ANCHOR

65 DEAD LOAD ANCHOR

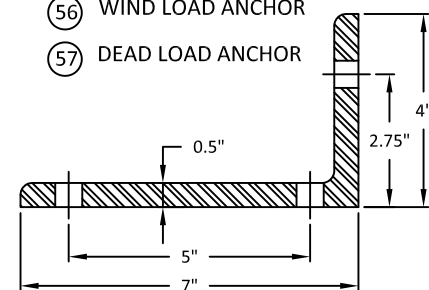


93 CORNER PERIMETER CASSETTE (TAPED)



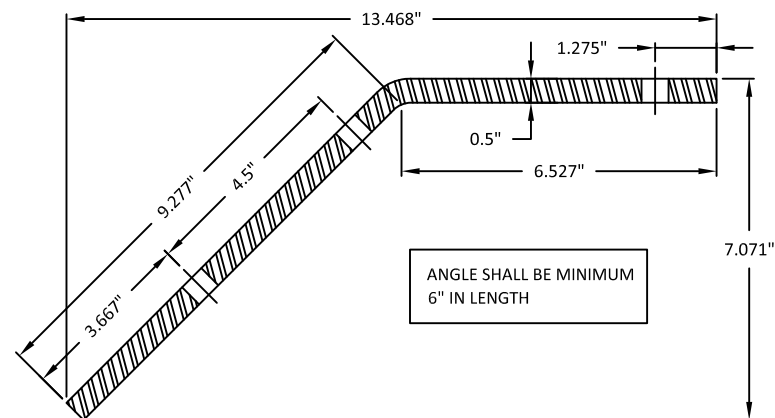
56 WIND LOAD ANCHOR

57 DEAD LOAD ANCHOR



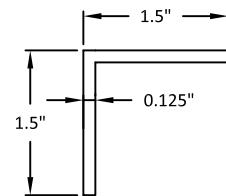
58 WIND LOAD ANCHOR

59 DEAD LOAD ANCHOR

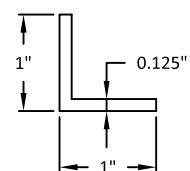


62 WIND LOAD ANCHOR

63 DEAD LOAD ANCHOR



96 1-1/2" X 1-1/2" X 1/8" ANGLE



97 1" X 1" X 1/8" ANGLE



YKK AP AMERICA

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

TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)

BILL OF MATERIALS

PREPARED BY:

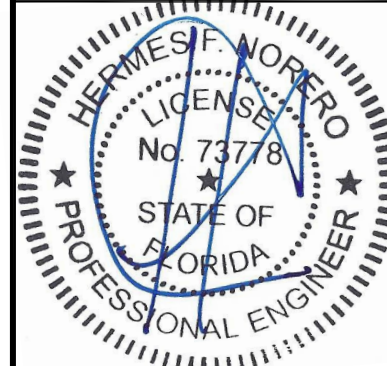
BUILDING DROPS, INC.

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

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.
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 #:

FL25556

DATE: 12.06.17

DWG. BY:
RV

CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK251

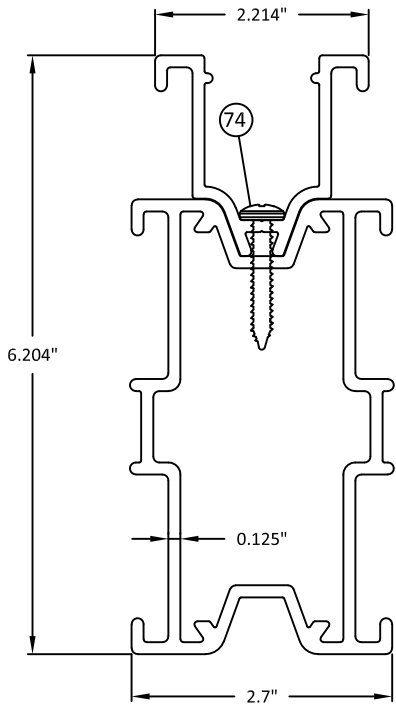
SECTION:

9.1

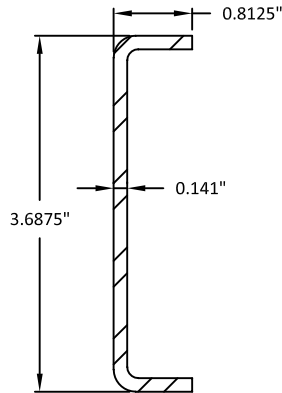
[SHEET 36 OF 38]

8/21/2020 7:10 PM

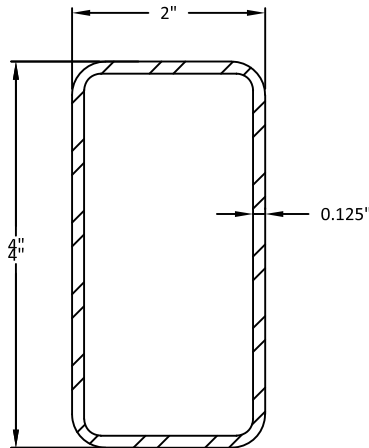
s:\projects\ykk ap america, inc\cc-20-0238 fbc submittal - fbc 2020 code change\fl25556\dwgs\ykk 251 - fl17111 dwgs 1-6 & 9.dwg



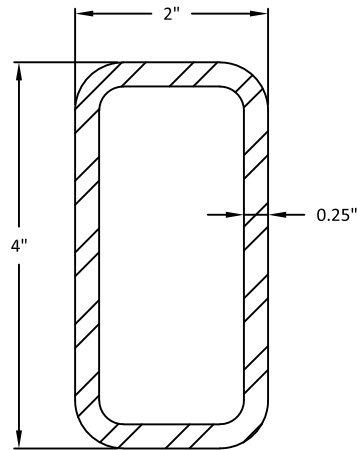
73 MULLION ANCHOR SLEEVE (3" LONG)



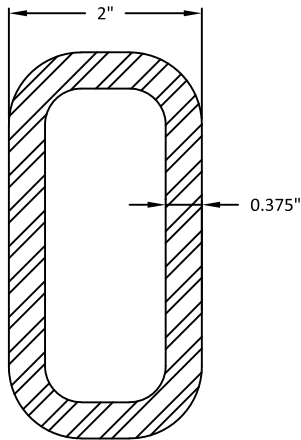
81 STEEL REINF CHANNEL (13/16" X 3-11/16" X 9/64")



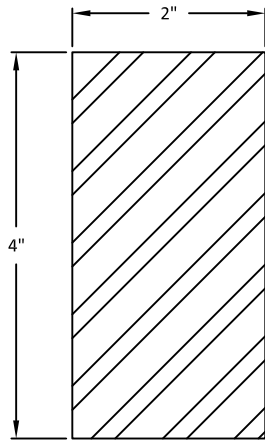
82 STEEL REINFORCING TUBE (2" X 4" X 1/8")



83 STEEL REINFORCING TUBE (2" X 4" X 1/4")



84 STEEL REINFORCING TUBE (2" X 4" X 3/8")



85 STEEL REINFORCING BAR (2" X 4")



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

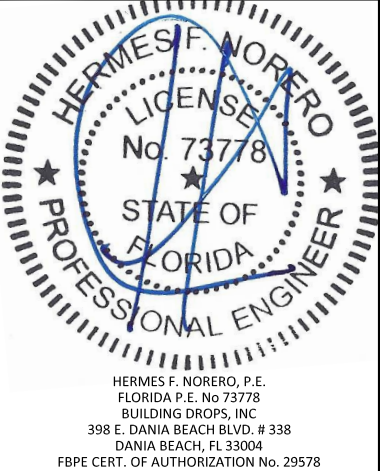
TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
BILL OF MATERIALS

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

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.
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 #:	
FL25556	
DATE: 12.06.17	
DWG. BY: RV	CHK. BY: HFN
SCALE: NTS	
DWG. #: YKK251	
SECTION:	
9.2	
[SHEET 37 OF 38]	

ITEM	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	E9-3230	VERTICAL / HORIZONTAL	6063-T6	YKK AP
2	E9-3242	TUBULAR HORIZONTAL	6063-T5	YKK AP
3	E9-3231	OPEN BACK HEAD / SILL	6063-T5	YKK AP
4	E9-3248	LIGHT DUTY VERTICAL / HORIZONTAL MULLION	6063-T6	YKK AP
5	E9-3243	EXPANSION HORIZONTAL (TOP)	6063-T5	YKK AP
6	E9-3244	EXPANSION HORIZONTAL (BOTTOM)	6063-T5	YKK AP
7	E9-3251	HEAVY DUTY VERTICAL/HORIZONTAL	6063-T6	YKK AP
8	E9-3162	FLUSH FILLER	6063-T5	YKK AP
9	E1-3049	SHEAR BLOCK	6063-T5	YKK AP
10	E1-3064	SHEAR BLOCK	6063-T5	YKK AP
11	E1-3054	MULLION ANCHOR SLEEVE (3" LONG)	6063-T5	YKK AP
12	E9-3255	SILL TRIM (1-5/16" GL)	6063-T5	YKK AP
13	H-3541	TOGGLE BAR ASSEMBLY	---	---
14	E1-3543	PERIMETER TRIM CLIP	6063-T5	YKK AP
15	E9-3232	PERIMETER CASSETTE (GASKETED)	6063-T5	YKK AP
16	E9-3233	PERIMETER CASSETTE (TAPE)	6063-T5	YKK AP
17	E9-3254	SILL ADAPTOR	6063-T5	YKK AP
18	E9-3246	HORIZONTAL ADAPTOR	6063-T5	YKK AP
19	E1-3050	SETTING BLOCK CHAIR	6063-T5	YKK AP
20	E1-3052	SETTING BLOCK CHAIR	6063-T5	YKK AP
21	E1-3051	SETTING BLOCK CHAIR	6063-T5	YKK AP
22	E9-3240	CORNER PERIMETER CASSETTE (GASKETED)	6063-T5	YKK AP
23	E9-3241	TOGGLE BAR (CORNER)	6063-T5	YKK AP
24	E9-3239	CORNER GLAZING ADAPTOR	6063-T5	YKK AP
25	E9-3165	90° CORNER INT. COVER	6063-T5	YKK AP
26	E9-3238	90° OUTSIDE CORNER ADAPTOR	6063-T5	YKK AP
27	E9-1280	90° CORNER INTERIOR COVER BASE	6063-T5	YKK AP
28	PM-2524-SS	1/4"-20 X 1-1/2" PHSMS SS	STAINLESS STEEL	---
29	PM-1006-SS	#10-24 X 3/8" PHSMS SS	STAINLESS STEEL	---
30	PF-2528	1/4"-20 X 1-3/4" PHSMS TYPE F	ZINC PLATED STEEL	---
31	FC-1212	#12 X 3/4" FHSMS TYPE AB	ZINC PLATED STEEL	---
32	PF-2528	1/4"-20 X 1-3/4" PHSMS TYPE F	ZINC PLATED STEEL	---
33	PC-1216	#12 X 1" PHSMS TYPE AB	ZINC PLATED STEEL	---
34	PC-1210	#12 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL	---
35	PC-1010	#10 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL	---
36	HF-2510-W1	1/4"-20 X 5/8" HHWS TYPE F	ZINC PLATED STEEL	---
37				
38	E1-3067	'F' JAMB END ANCHOR	6063-T5	YKK AP
39	E1-3003	'T' MULLION END ANCHOR	6063-T5	YKK AP
40	E1-3062	DOOR JAMB ANCHOR	A36 STEEL	---
45	E1-1204	WIND LOAD ANCHOR	A36 STEEL	---
46	E1-1205	DEAD LOAD ANCHOR	A36 STEEL	---
47	E2-0110	GLAZING SPACER TAPE	Polyurethane Foam	---
48	E2-0262	SSG CASSETTE GASKET	SILICONE	---
49	E2-0408	SETTING BLOCK	SILICONE (85±5)	
50	E2-7017	SETTING BLOCK	EPDM (85±5)	

ITEM	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
51	E1-3048	MULLION SPLICE SLEEVE (6" LONG)	6063-T5	YKK AP
52	PC-1012	#10 X 3/4" PHSMS TYPE AB	ZINC PLATED STEEL	---
53	PC-1210	#12 X 5/8" PHSMS TYPE AB	ZINC PLATED STEEL	---
56	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL	---
57	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL	---
58	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL	---
59	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL	---
60	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL	---
61	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL	---
62	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL	---
63	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL	---
64	-	WINDLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL	---
65	-	DEADLOAD ANCHOR (STD MULLION)(NOT BY YKK AP)	A36 STEEL	---
66	E1-3058	SHEAR CLIP ANGLE FOR 90° CORNER MULLION (L.H.)	6063-T5	YKK AP
67	E1-3059	SHEAR CLIP ANGLE FOR 90° CORNER MULLION (R.H.)	6063-T5	YKK AP
68	---	---	---	---
69	E2-7001	INTERIOR GASKET	SILICONE	---
70	E3-0103	ANCHOR SLIP PAD	NYLON	---
71	E9-3432	SPLICE SLEEVE EXTENSION	6063-T5	YKK AP
72	E1-3536	JAMB ANCHOR PLATE	ALUM SHEET	---
73	E1-3066	MULLION ANCHOR SLEEVE (3" LONG)	6063-T5	YKK AP
74	PC-1216	#12 X 1" PHSMS TYPE AB	ZINC PLATED STEEL	---
75	E9-3234	PERIMETER TRIM (1-5/16" GL)(SHOP-GLAZED)	6063-T5	YKK AP
76	FC-1210	#12 X 5/8" FHSMS TYPE AB	ZINC PLATED STEEL	---
77	E1-3056	SHEAR CLIP ANGLE FOR 90° CORNER MULLION	6063-T5	YKK AP
78	E1-3057	SHEAR CLIP ANGLE FOR 90° CORNER MULLION	6063-T5	YKK AP
79	E1-3060	SHEAR CLIP ANGLE FOR 90° CORNER MULLION (L.H.)	6063-T5	YKK AP
80	E1-3061	SHEAR CLIP ANGLE FOR 90° CORNER MULLION (R.H.)	6063-T5	YKK AP
81	E1-0157	STEEL REINF CHANNEL (13/16" X 3-11/16" X 9/64")	A36 STEEL	---
82	E1-0187	STEEL REINFORCING TUBE (2" X 4" X 1/8")	A36 STEEL	---
83	E1-0162	STEEL REINFORCING TUBE (2" X 4" X 1/4")	A36 STEEL	---
84	-	STEEL REINFORCING TUBE (2" X 4" X 3/8")	A36 STEEL	---
85	-	STEEL REINFORCING BAR (2" X 4")	A36 STEEL	---
86	E1-3055	90° CORNER MULLION ANCHOR	---	---
87	FC-1220	#12 X 1-1/4" FHSMS TYPE	ZINC PLATED STEEL	---
88	HM-5072	1/2"-13 X 4-1/2" HHMS	ZINC PLATED STEEL	---
89	HM-5000	1/2"-13 NUT HHMS	ZINC PLATED STEEL	---
90	WS-5000	1/2" LOCK WASHER	ZINC PLATED STEEL	---
91	WW-5000	1/2" FLAT WASHER	ZINC PLATED STEEL	---
92	---	1/2"-13 HHMS BOLT (GRADE 5) OF SUFFICIENT LENGTH TO ACHIEVE FULL ENGAGEMENT W/ NUT SAE GR5 OR ASTM A325	---	---
93	E9-3249	CORNER PERIMETER CASSETTE (TAPED)	6063-T5	YKK AP
94	PM-2512-SS	1/4"-20 X 3/4" PHSMS SS	STAINLESS STEEL	---
95	E2-0239	ISOLATOR TAPE	PVC SPONGE	---
96	E9-9303	1-1/2" X 1-1/2" X 1/8" ANGLE	6063-T5	YKK AP
97	E9-9302	1" X 1" X 1/8" ANGLE	6063-T5	YKK AP



YKK AP AMERICA

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

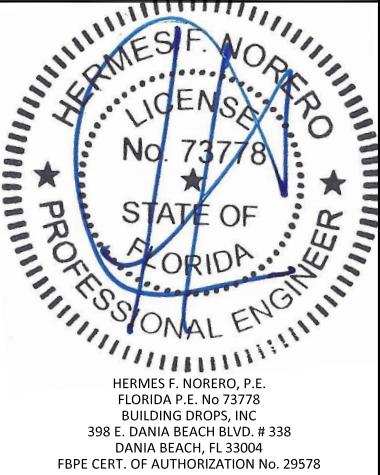
TITLE:
YHC 300 SSG CASSETTE CURTAIN WALL
SYSTEM - INSULATING GLASS
(HVHZ) (IMPACT)
BILL OF MATERIALS

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

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 #:

FL25556

DATE: 12.06.17

DWG. BY:
RV

CHK. BY:
HFN

SCALE: NTS

DWG. #: YKK251

SECTION:

9.3