

10/14/2022 9:29 AM

s:\projects\ykk ap america, inc.\fbc-22-0427-1 - fbc submittal - revisions - fl12892.5 & 7 monumental (hd) entrance systems.dwg\ykk221 50m hd door.dwg

YKK AP AMERICA, Inc.

50M MONUMENTAL (HD) ENTRANCE SYSTEM (NON-HVHZ) (NON-IMPACT)

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER 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., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM STACK TO BE 3/8 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
- REFER TO SHEET 2 & 3 FOR INSTALLATION DETAILS, ANCHOR SELECTION, AND ANCHOR REQUIREMENTS.
- 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.
- FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 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.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.
 - ALUMINUM - MINIMUM 1/16 INCH THICK 6063-T5 ALUMINUM.

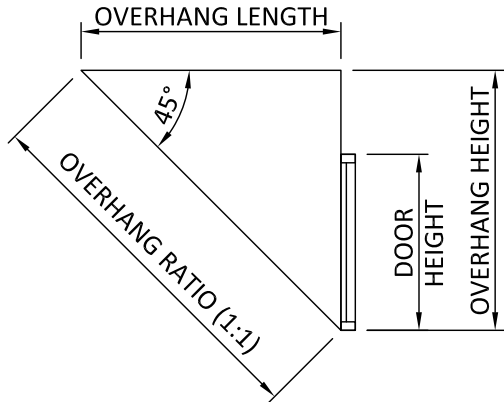
GENERAL NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), EXCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - ASTM E283-04(12)
 - ASTM E330-14
- ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X FRAMING AND METAL 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.
- 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND 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 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.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
- DOOR FRAME MATERIAL: ALUMINUM 6063-T5
- ALL STRUCTURAL MATERIALS & DISSIMILAR METALS SHALL BE PROTECTED, TREATED, PAINTED, COATED, AND/OR ISOLATED AS REQUIRED IN THE APPLICABLE SECTIONS OF THE CURRENT FLORIDA BUILDING CODE AND REFERENCED DESIGN SPECIFICATIONS.
- ALLOWABLE CONFIGURATIONS: X (SINGLE DOOR).
XX (DOUBLE DOOR)

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	INSTALLATION & GENERAL NOTES
2	ELEVATION, ANCHOR LAYOUTS & SCHEDULE
3	ELEVATION, ANCHOR LAYOUTS & SCHEDULE
4	VERTICAL SECTIONS
5	HORIZONTAL SECTIONS
6	HORIZONTAL SECTIONS & GLAZING DETAILS
7	COMPONENTS & BILL OF MATERIALS

DESIGN PRESSURE TABLE				
PRODUCT CONFIGURATION	MAX. FRAME SIZE		DESIGN PRESSURE	MISSILE IMPACT RATING
	WIDTH	HEIGHT		
"XX"	88"	98"	+/-65 PSF	NOT RATED
"X"	46"	98"		

NOTE: PRODUCT HAS NOT BEEN RATED FOR WATER INFILTRATION. IF AUTHORITY HAVING JURISDICTION REQUIRES THAT PRODUCT MEETS THIS REQUIREMENT, PRODUCT SHALL BE USED WHEN INSTALLED AT LOCATION PROTECTED BY OVERHANG SUCH THAT OVERHANG (OH) RATIO = $OH\ LENGTH \div OH\ HEIGHT \geq 1.0$



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

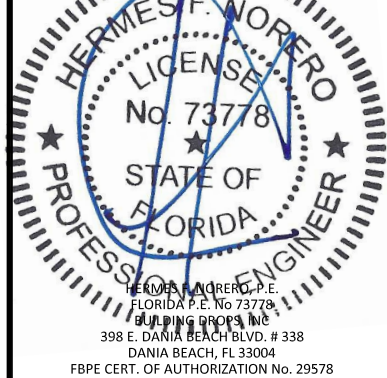
TITLE:
50M MONUMENTAL (HD)
ENTRANCE SYSTEM
(NON-HVHZ) (NON-IMPACT)
INSTALLATION & GENERAL NOTES

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
JAMB PROFILE UPDATE	MS	MAY/22

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, P.E.
Reason: I am approving this document
Date: 2022.10.14 16:50:55 -0400



FL #:
FL12892

DATE:
08.23.17

DWG. BY:
EG

CHK. BY:
HFN

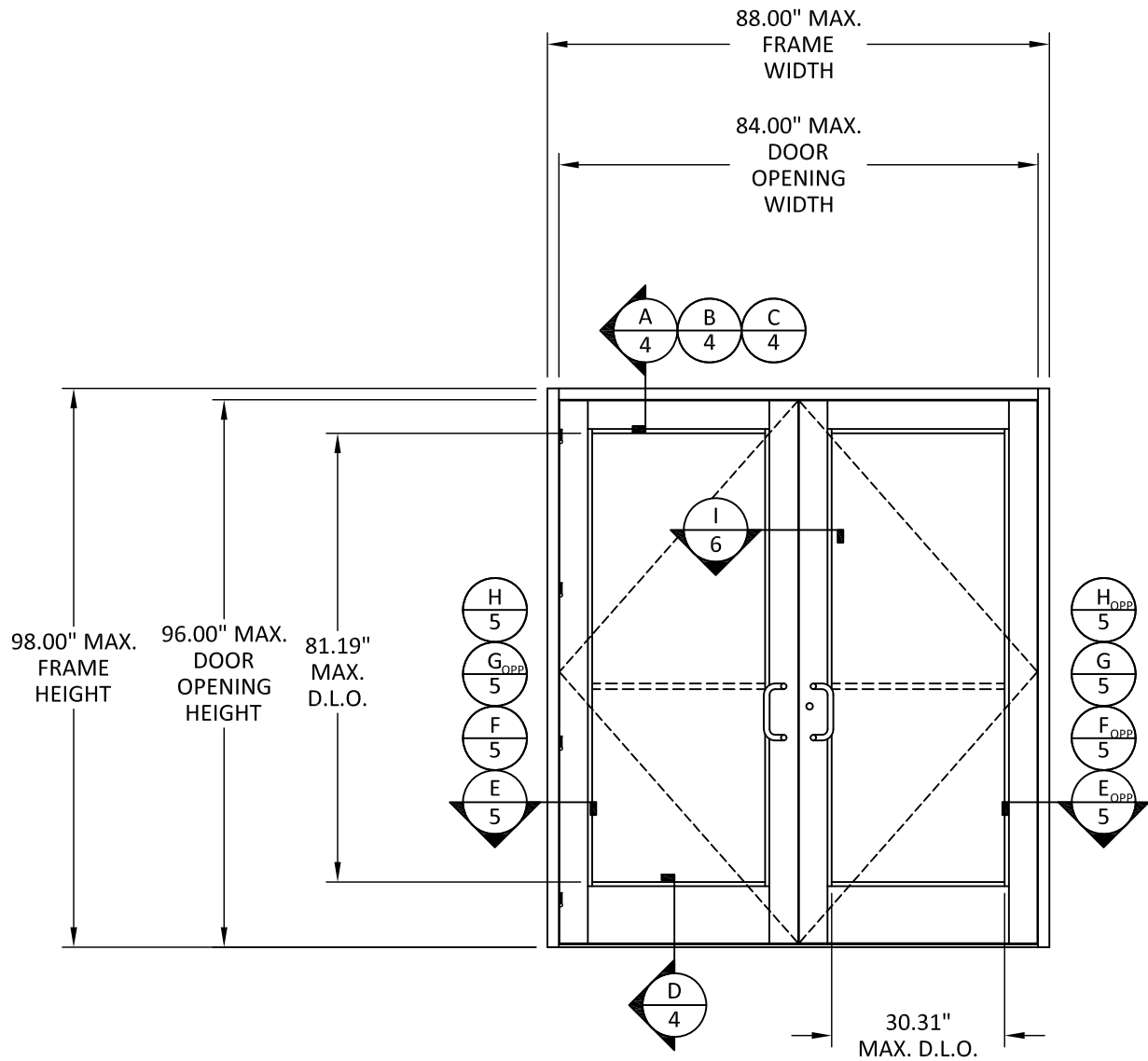
SCALE:
NTS

DWG. #:
YKK221

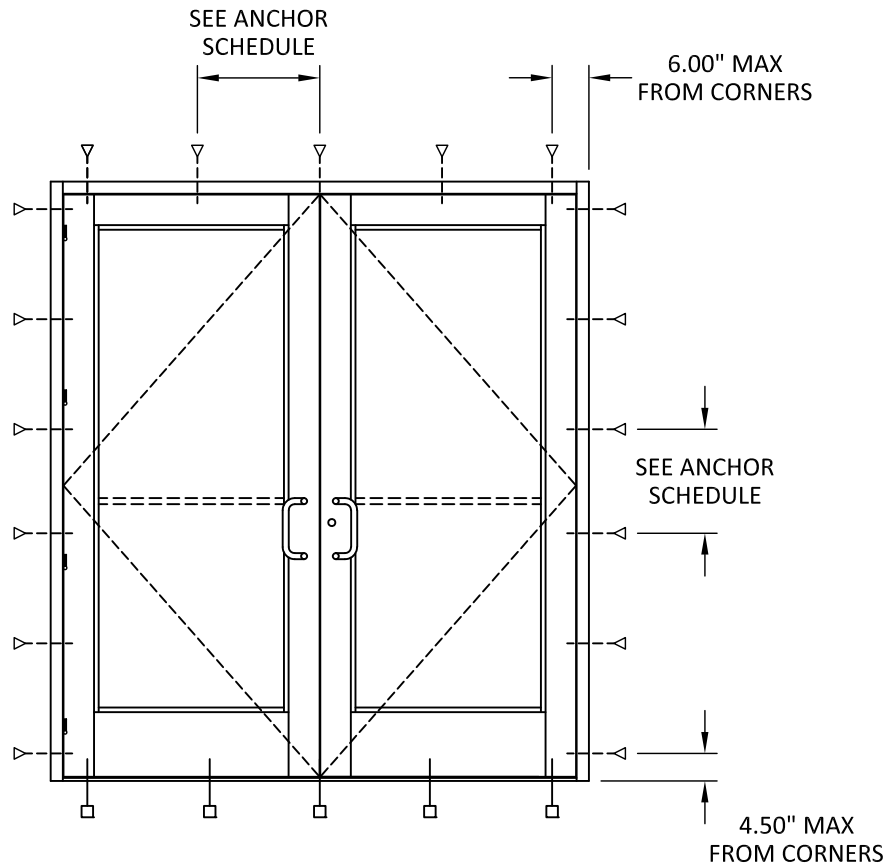
SHEET:
1

10/14/2022 9:29 AM

s:\projects\ykk ap america, inc\fbc-22-0427.1 - fbc submittal - revisions - fl12892.5 & 7 monumental (hd) entrance systems\dwgs\ykk221 50m hd door.dwg



TYPICAL ELEVATION
OUTSWING DOOR



ANCHOR LAYOUT
OUTSWING DOOR

ANCHOR SCHEDULE						
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE	MAX. SPACING HEAD & SILL	MAX. SPACING JAMB
THROUGH FRAME	WOOD MIN. SG = 0.55	#14 WOOD SCREW	1.5"	0.75"	19	22
	18 GAUGE STEEL, MIN. Fy = 33KSI	#14 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.75"	25	44
	CONCRETE f'c = 3000PSI	1/4" ITW TAPCON	1.75"	2.5"	19	17
	CMU per ASTM C90	1/4" ITW TAPCON	1"	2.5"	19	17
	ALUMINUM 1/16" THICK 6063-T5	1/4" SELF DRILLING OR SELF TAPPING SCREW GRADE 5	3 THREADS MIN PENETRATION BEYOND METAL	0.7500	25	44



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

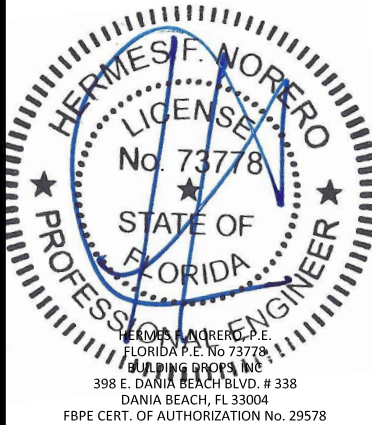
TITLE:
50M MONUMENTAL (HD)
ENTRANCE SYSTEM
(NON-HVHZ) (NON-IMPACT)
ELEVATION, ANCHOR LAYOUTS
& SCHEDULE

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
JAMB PROFILE UPDATE	MS	MAY/22

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 #:
FL12892

DATE: **08.23.17**

DWG. BY: **EG** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK221**

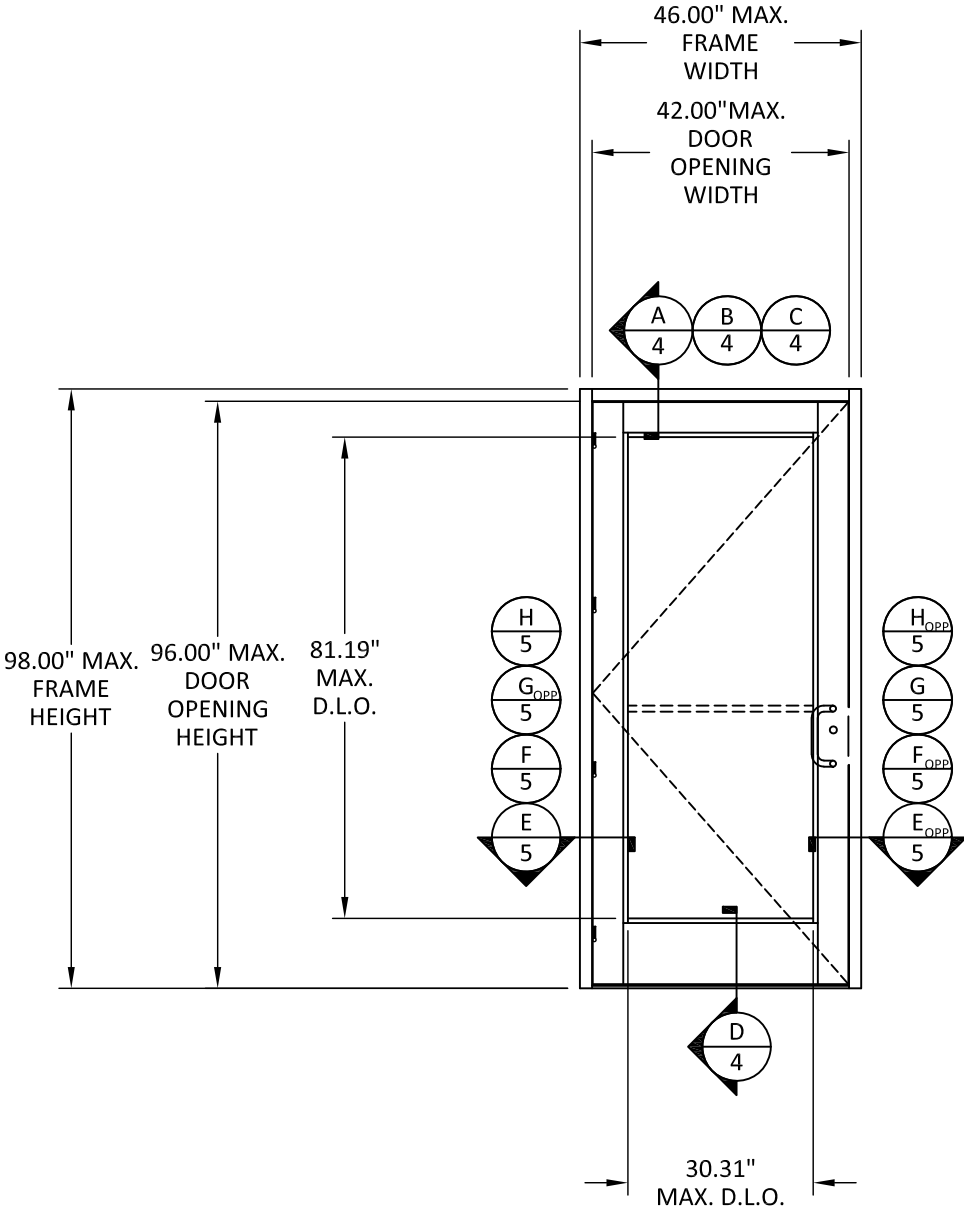
SHEET:

2

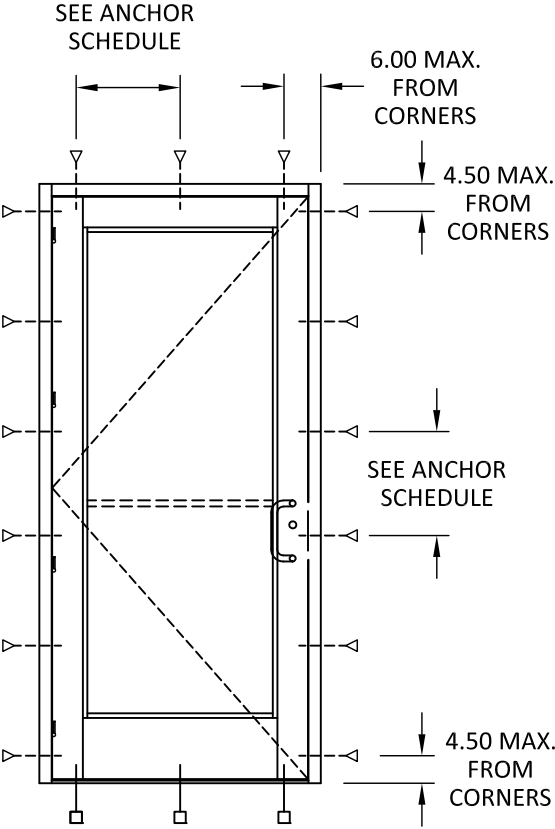
OF 7

10/14/2022 9:30 AM

s:\projects\ykk ap america, inc\fbc-22-0427.1 - fbc submittal - revisions - fl12892.5 & 7 monumental (hd) entrance systems\dwgs\ykk221 50m hd door.dwg



**TYPICAL ELEVATION
OUTSWING DOOR**



**ANCHOR LAYOUT
THROUGH FRAME
OUTSWING DOOR**

ANCHOR SCHEDULE						
METHOD	SUBSTRATE	ANCHOR SCHEDULE	MIN EMBEDMENT	MIN. EDGE DISTANCE	MAX. SPACING HEAD & SILL	MAX. SPACING JAMB
THROUGH FRAME	WOOD MIN. SG = 0.55	#14 WOOD SCREW	1.5"	0.75"	38	29
	18 GAUGE STEEL, MIN. Fy = 33KSI	#14 TEK SCREW	3 THREADS MIN PENETRATION BEYOND METAL	0.75"	38	44
	CONCRETE f'c = 3000PSI	1/4" ITW TAPCON	1.75"	2.5"	38	29
	CMU per ASTM C90	1/4" ITW TAPCON	1"	2.5"	38	29
	ALUMINUM 1/16" THICK 6063-T5	1/4" SELF DRILLING OR SELF TAPPING SCREW GRADE 5	3 THREADS MIN PENETRATION BEYOND METAL	0.7500	38	44



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

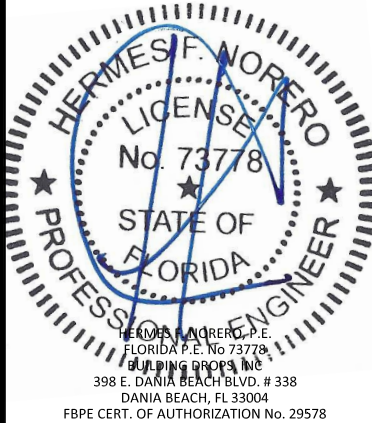
TITLE:
50M MONUMENTAL (HD)
ENTRANCE SYSTEM
(NON-HVHZ) (NON-IMPACT)
ELEVATION, ANCHOR LAYOUTS
& SCHEDULE

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
JAMB PROFILE UPDATE	MS	MAY/22

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 #:
FL12892

DATE: **08.23.17**

DWG. BY: **EG** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK221**

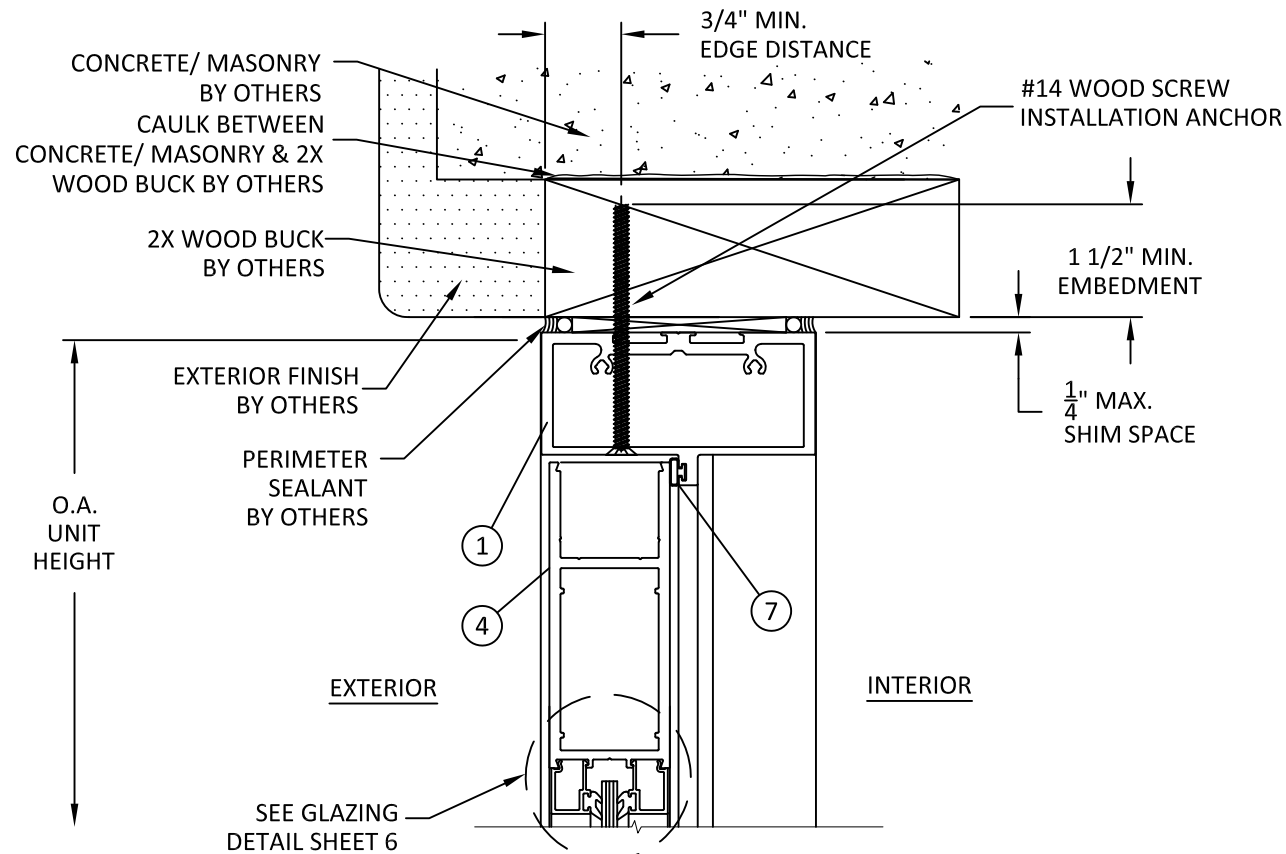
SHEET:

3

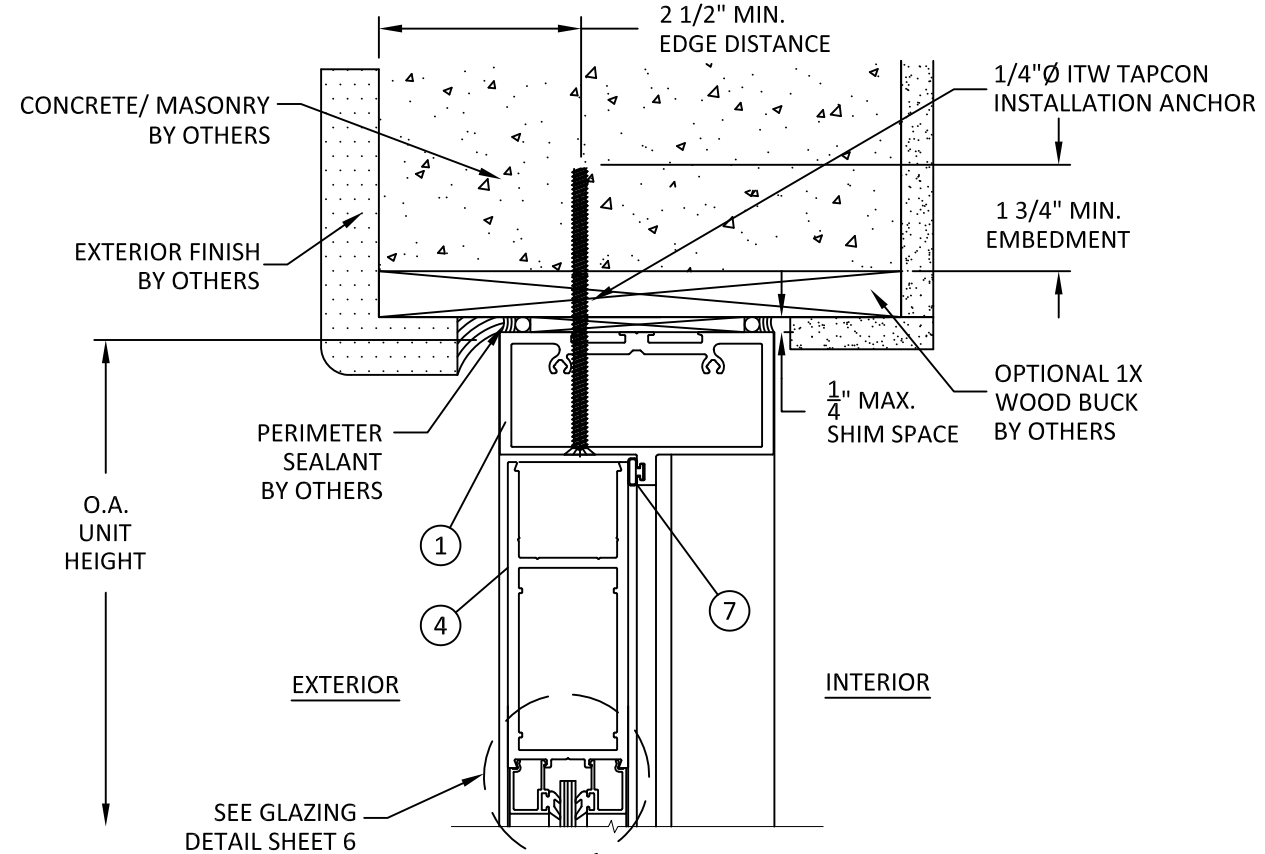
OF 7

10/14/2022 9:30 AM

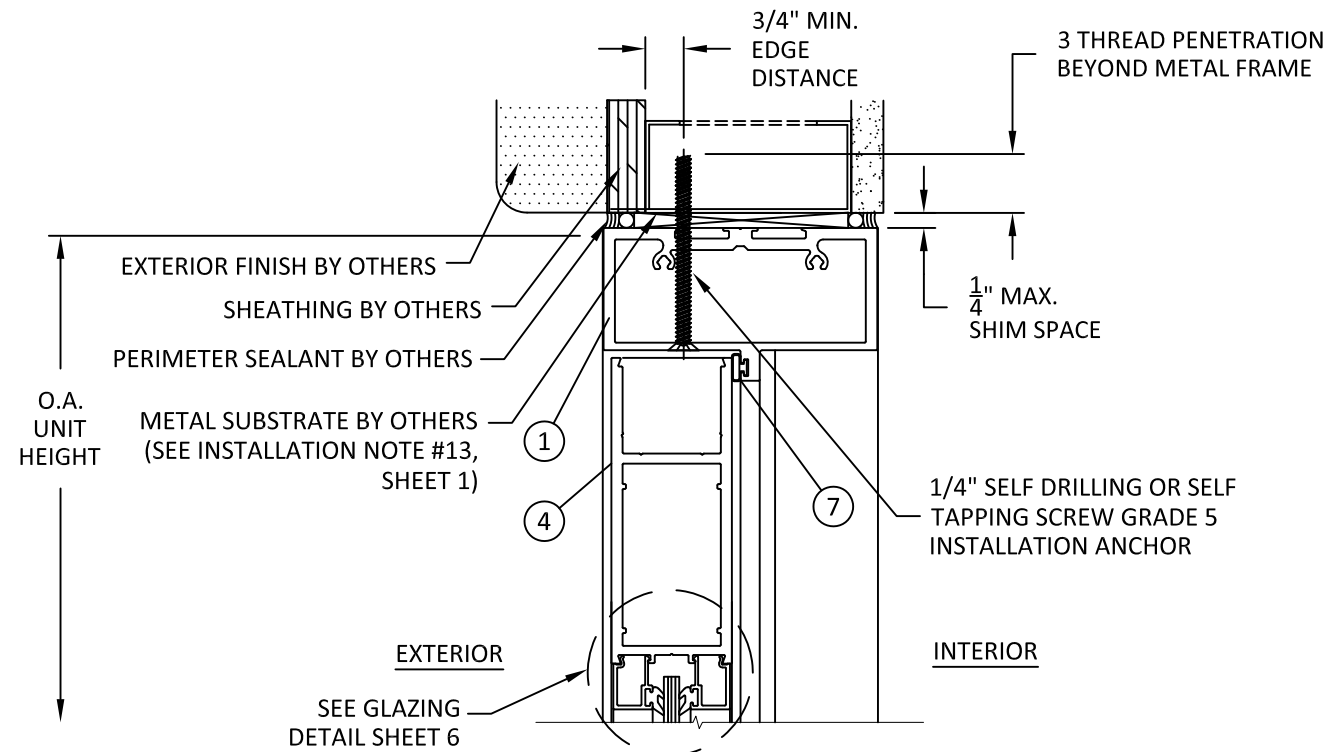
s:\projects\ykk ap america, inc\fbcc-22-0427.1 - fbc submittal - revisions - fl12892.5 & 7 monumental (hd) entrance systems.dwg\ykk221 50m hd door.dwg



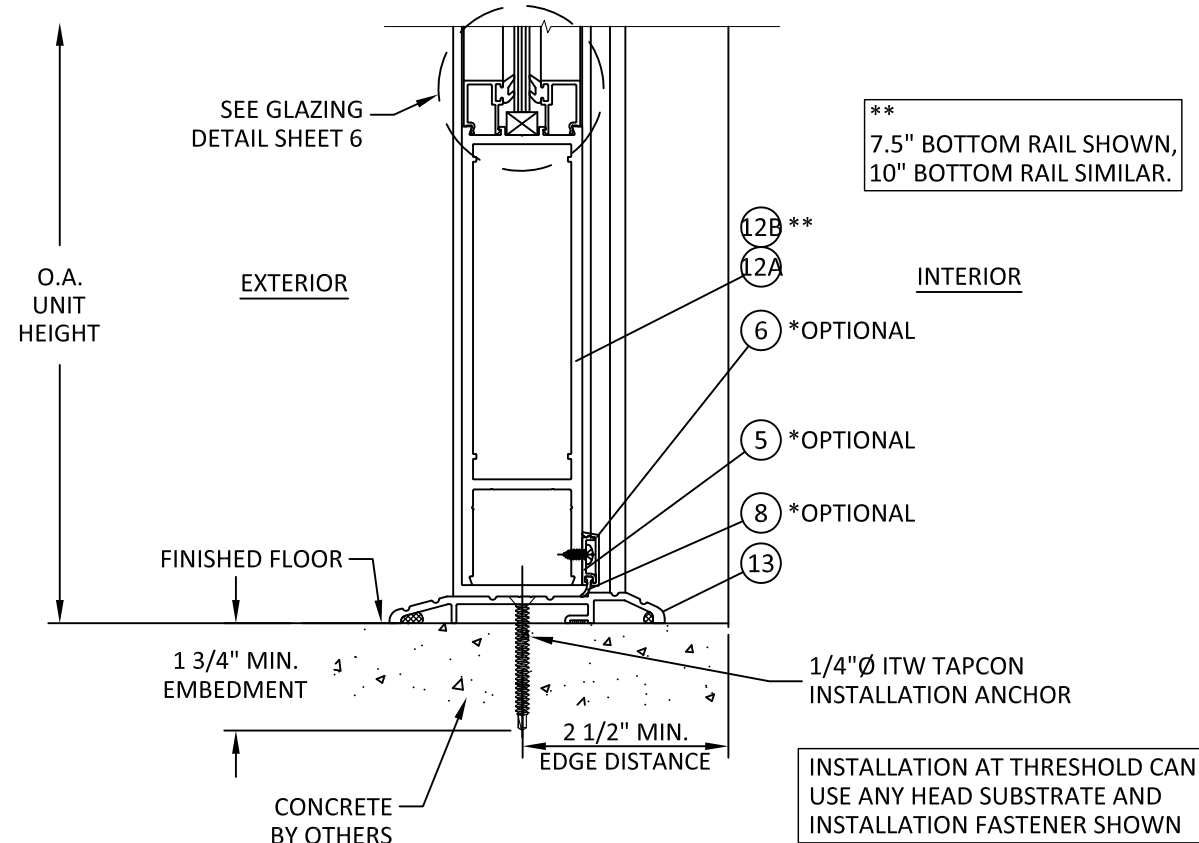
A
4 **VERTICAL SECTION**
DOOR HEAD - 2X WOOD BUCK
THROUGH FRAME



B
4 **VERTICAL SECTION**
DOOR HEAD - CONCRETE/MASONRY
THROUGH FRAME



C
4 **VERTICAL SECTION**
DOOR HEAD - STEEL STUD/ALUMINUM MULLION
THROUGH FRAME



D
4 **VERTICAL SECTION**
BOTTOM RAIL - CONCRETE



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

TITLE:
50M MONUMENTAL (HD)
ENTRANCE SYSTEM
(NON-HVHZ) (NON-IMPACT)

VERTICAL SECTIONS

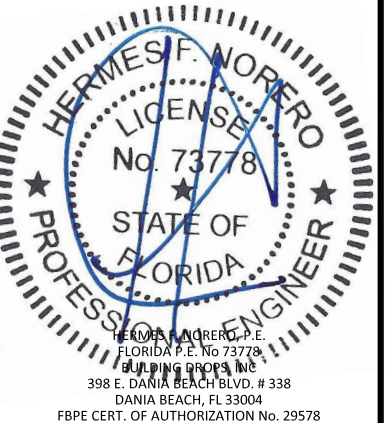
PREPARED BY:
BUILDING DROPS, INC.

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
JAMB PROFILE UPDATE	MS	MAY/22

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 #:
FL12892

DATE: **08.23.17**

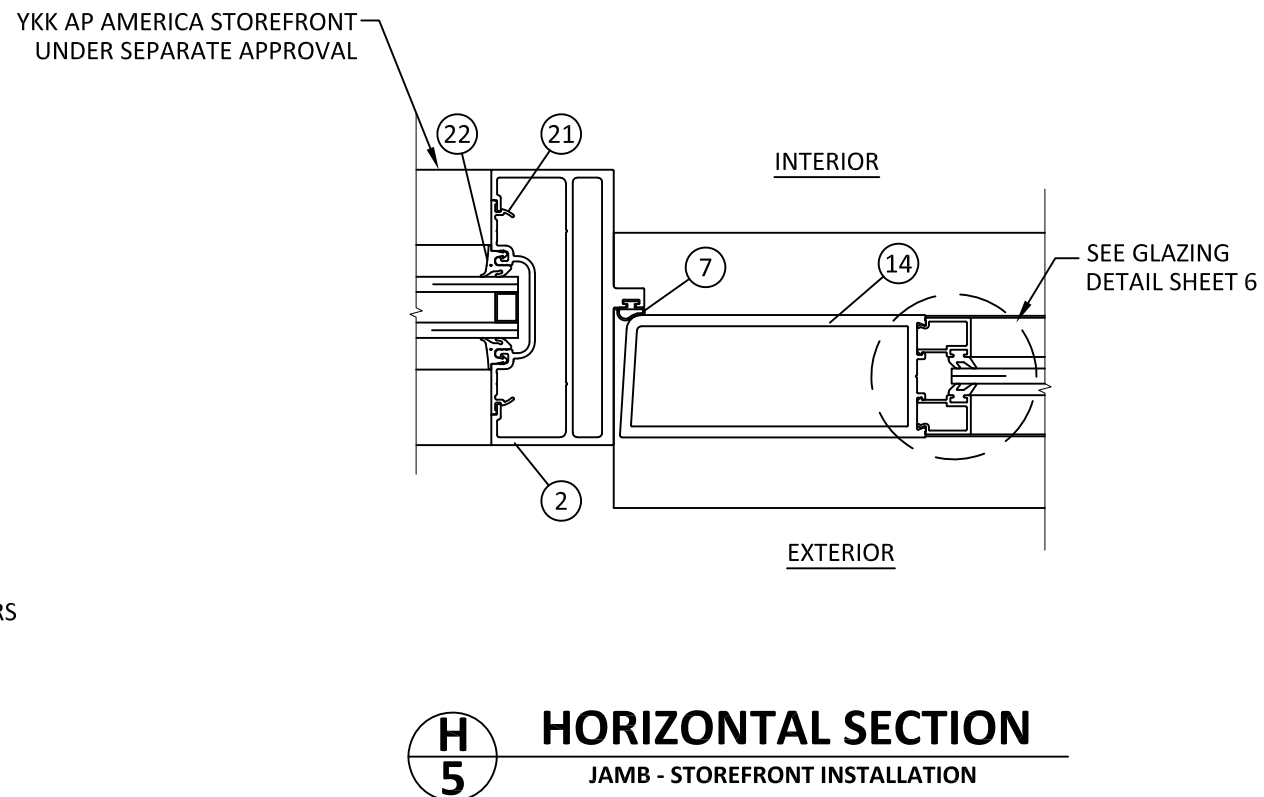
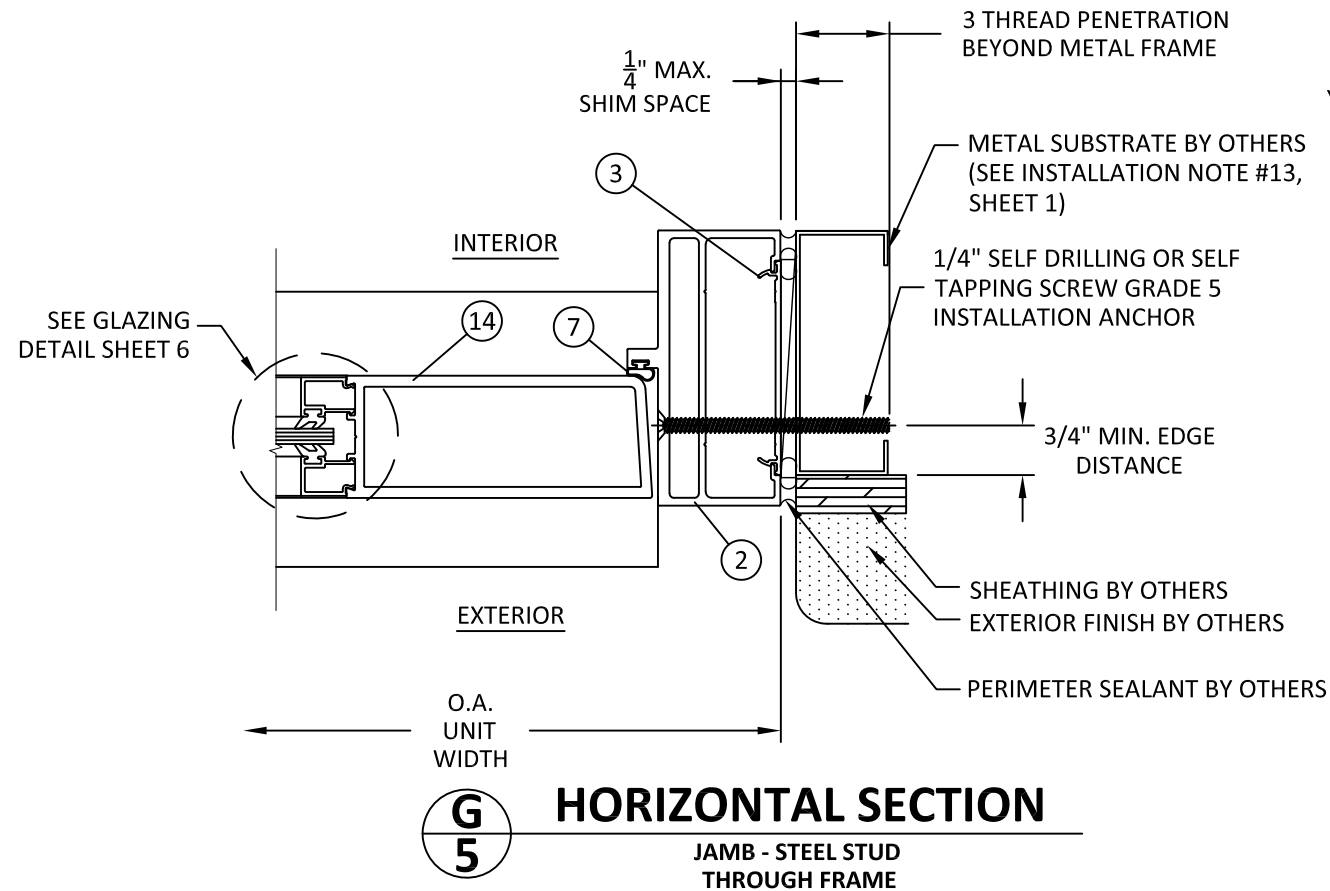
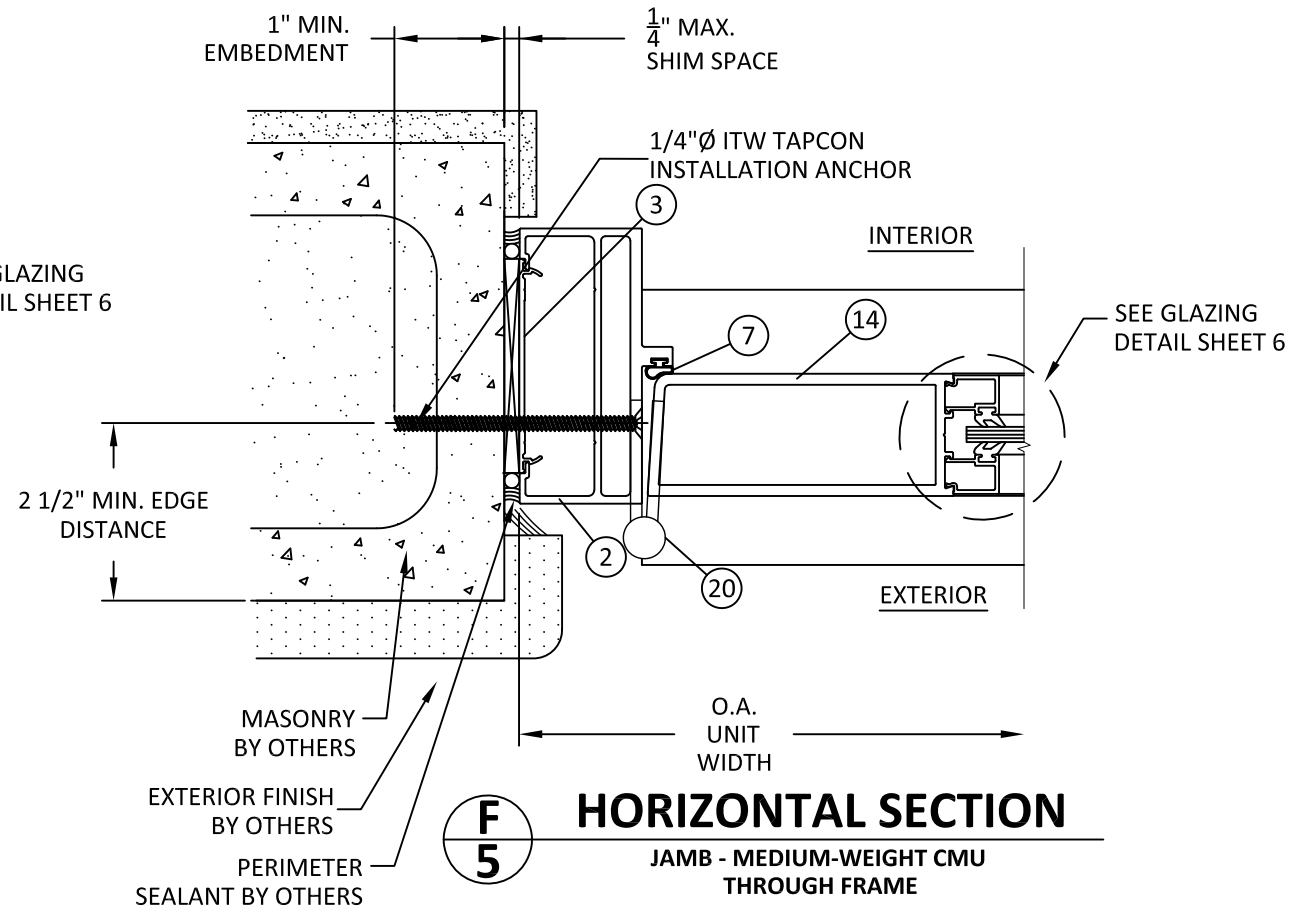
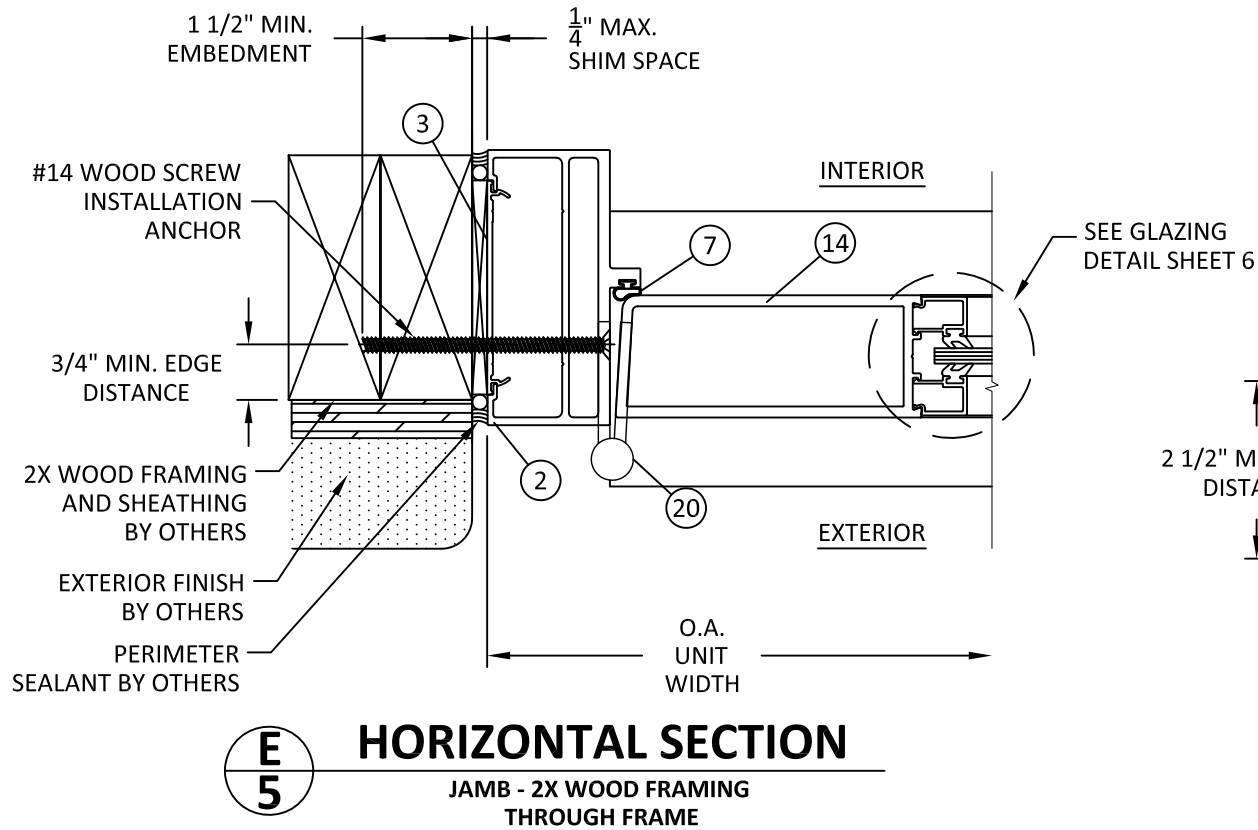
DWG. BY: **EG** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **YKK221**

SHEET:
4

OF 7



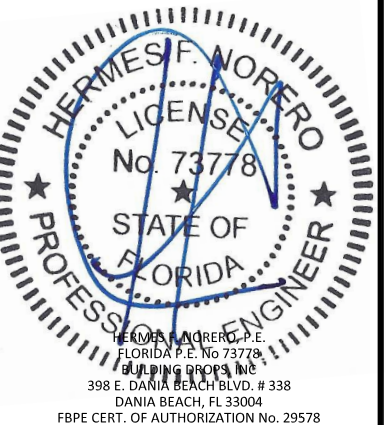
YKK AP AMERICA, Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: 50M MONUMENTAL (HD) ENTRANCE SYSTEM (NON-HVHZ) (NON-IMPACT) HORIZONTAL SECTIONS

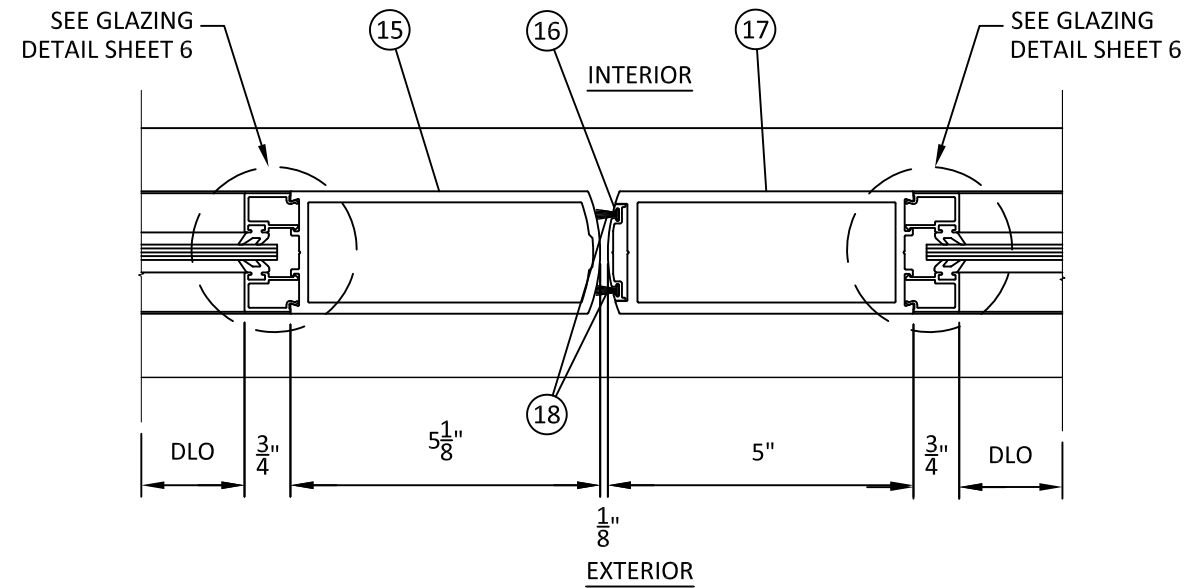
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
JAMB PROFILE UPDATE	MS	MAY/22

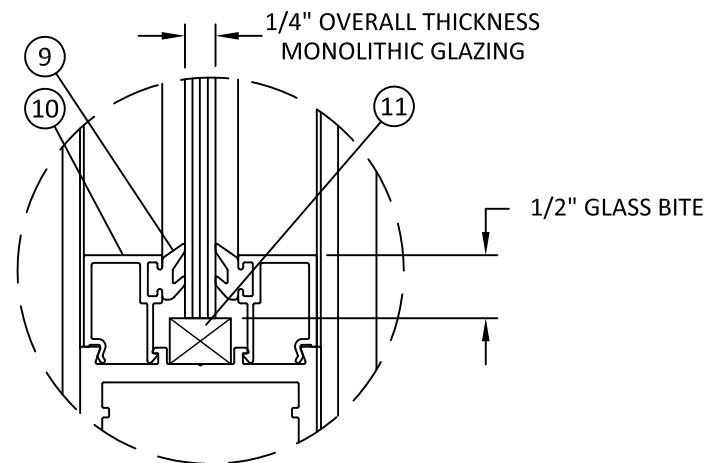
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:	FL12892
DATE:	08.23.17
DWG. BY:	EG
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	YKK221
SHEET:	5



I
6 **HORIZONTAL SECTION**
ASTRAGAL



GLAZING DETAIL

GLAZING NOTES:

1. GLASS TYPE AND THICKNESS SHALL COMPLY WITH ASTM E1300 REQUIREMENTS AS WELL AS APPLICABLE SAFETY GLAZING REQUIREMENTS PER THE FBC. THICKNESS, TEMPER, AND SAFETY GLAZING REQUIREMENTS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS.
2. SETTING BLOCK DUROMETER HARDNESS OF 70-90 (SHORE A) AS REFERENCED IN FBC CHAPTER 24.
3. SETTING BLOCKS TO BE LOCATED AT 1/4 SPAN LENGTH FOR GLASS WIDER THAN 36" AS PER FBC CHAPTER 24.
4. D.L.O. AND DESIGN PRESSURES MAY NOT EXCEED MAX VALUES IN GLASS CHARTS.



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

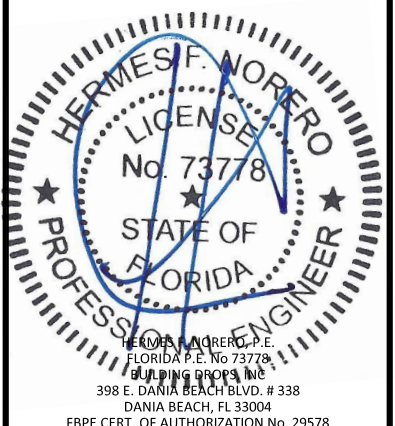
TITLE:
50M MONUMENTAL (HD)
ENTRANCE SYSTEM
(NON-HVHZ) (NON-IMPACT)
HORIZONTAL SECTIONS &
GLAZING DETAIL

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
JAMB PROFILE UPDATE	MS	MAY/22

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 #:
FL12892

DATE: **08.23.17**

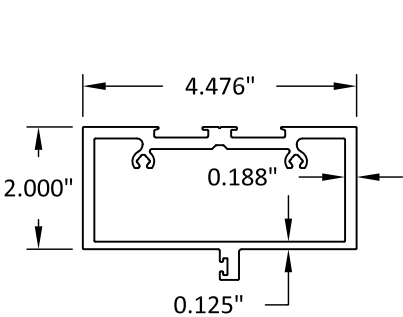
DWG. BY: **EG** CHK. BY: **HFN**

SCALE: **NTS**

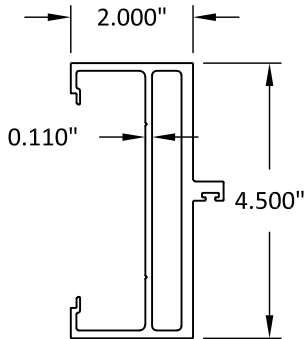
DWG. #: **YKK221**

SHEET:
6

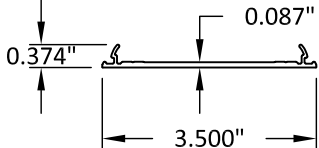
ITEM	PART NO.	DESCRIPTION	MATERIAL	MANUFACTURER
1	E9-0467	DOOR HEAD O/P	6063-T5	YKK AP
2	E9-0466	DOOR JAMB O/P	6063-T5	YKK AP
3	E1-1054	FLAT FILLER	6063-T5	YKK AP
4	E9-0375	5" TOP RAIL	6063-T5	YKK AP
5	E9-0347	DOOR SWEEP BASE	6063-T5	YKK AP
6	E9-0348	DOOR SWEEP COVER	6063-T5	YKK AP
7	E2-0051	AIRTIGHT GASKET	SANTOPRENE	---
8	E2-0067	AIRTIGHT GASKET FOR DOOR SWEEP	EPDM	---
9	E2-0050	DOOR GASKET	EPDM	---
10	E9-0356	1/4" GLASS STOP	6063-T5	YKK AP
11	E2-0054	DOOR SETTING BLOCK (1/4")	EPDM	---
12A	E9-0355	7-1/2" BOTTOM RAIL	6063-T5	YKK AP
12B	E9-0359	10" BOTTOM RAIL	6063-T5	YKK AP
13	E9-0433	4-1/2" THRESHOLD	6063-T5	YKK AP
14	E9-0378	HINGE STILE	6063-T5	YKK AP
15	E9-0377	MEETING STILE (INACTIVE)	6063-T5	YKK AP
16	E9-0332	MEETING STILE COVER	6063-T5	YKK AP
17	E9-0376	MEETING STILE (ACTIVE)	6063-T5	YKK AP
18	E2-0087	DOOR WEATHERSEAL	POLYPROPYLENE	---
20	P-1303-HP	HINGE	---	---
21	E9-1012	SHALLOW POCKET FILLER	6063-T5	YKK AP
22	E2-0052	GASKET	EPDM	---



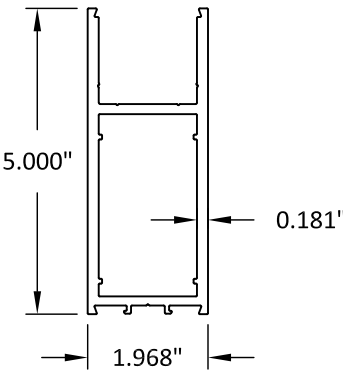
① DOOR HEAD O/P



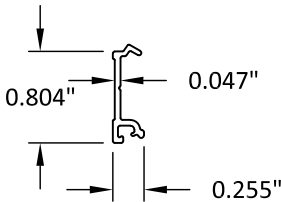
② DOOR JAMB O/P



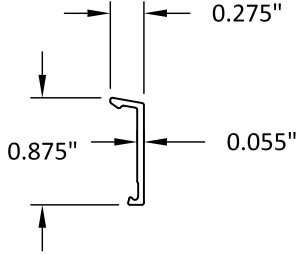
③ FLAT FILLER



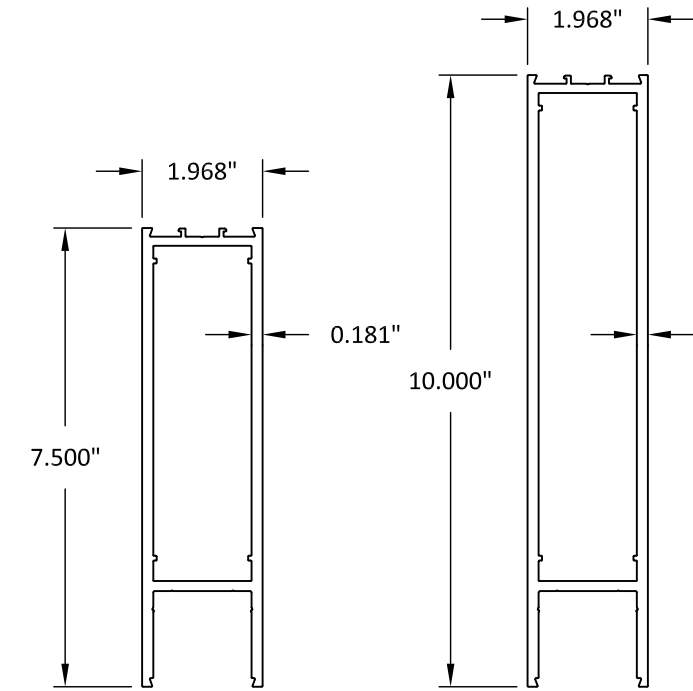
④ 5" TOP RAIL



⑤ DOOR SWEEP BASE (OPTIONAL)

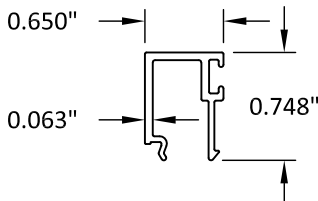


⑥ DOOR SWEEP COVER (OPTIONAL)

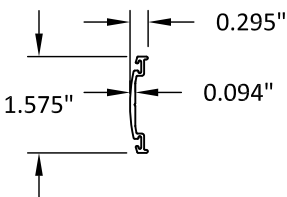


⑫A 7-1/2" BOTTOM RAIL

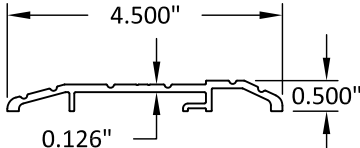
⑫B 10" BOTTOM RAIL



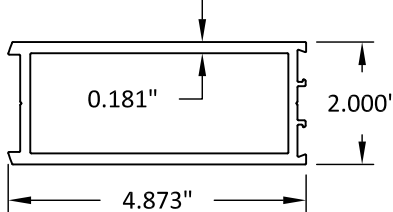
⑩ 1/4" GLASS STOP



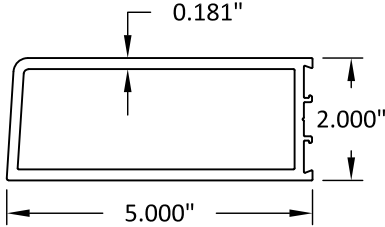
⑩⑥ MEETING STILE COVER



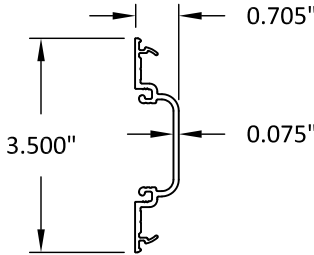
⑬ 4-1/2" DOOR THRESHOLD



⑩⑦ MEETING STILE (ACTIVE)



⑩④ HINGE STILE



⑩②① SHALLOW POCKET FILLER



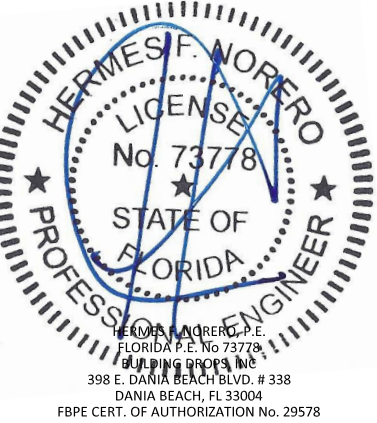
YKK AP AMERICA, Inc.
1229 HWY 441 BYPASS
DUBLIN, GEORGIA 31021
PH: (478)277-1955 FAX: (678)838-6001

TITLE: 50M MONUMENTAL (HD) ENTRANCE SYSTEM (NON-HVHZ) (NON-IMPACT) COMPONENTS & 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
JAMB PROFILE UPDATE	MS	MAY/22

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 #: FL12892

DATE: 08.23.17

DWG. BY: EG

CHK. BY: HFN

SCALE: NTS

DWG. #: YKK221

SHEET: 7 OF 7