



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

Oldcastle BuildingEnvelope™, Inc. (TX)

803 Airport Road

Terrell, TX 75160

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.-

DESCRIPTION: Series "FG-5000 Flush Glazed, Dry Glazed" Aluminum Window Wall System - L.M.I.

APPROVAL DOCUMENT: Drawing No. 16-067, titled "Series FG-5000 Flush Glazed Aluminum Window Wall System – Large & Small Missile Impact Laminated Glass (Dry Glazed)", sheets 1 through 22 of 22, including 8A, dated 06/24/16, with revision 1 dated 12/23/16, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



Handwritten signature and date:
2/2/17

NOA No. 16-0802.04
Expiration Date: February 09, 2022
Approval Date: February 09, 2017
Page 1

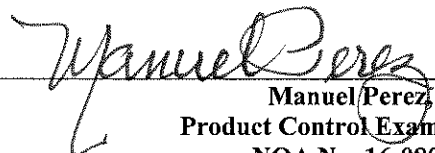
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **16-067**, titled "Series FG-5000 Flush Glazed Aluminum Window Wall System – Large & Small Missile Impact Laminated Glass (Dry Glazed)", sheets 1 through 21 of 21, including sheet 8A, dated 06/24/16, with revision 1 dated 12/23/16, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of a series FG-5000 unreinforced flush glazed aluminum storefront system, prepared by Architectural Testing, Inc., Test Report No. **ATI-74785.02-401-18**, dated 08/29/07, signed and sealed by Joseph A. Reed, P.E.
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series FG-5000 and series FG-5100 unreinforced flush glazed aluminum storefront system corner mullion, prepared by Architectural Testing, Inc., Test Report No. **ATI-86107.01-401-18**, dated 02/26/09, signed and sealed by Joseph A. Reed, P.E.
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series FG-5000 reinforced flush glazed aluminum storefront system, prepared by Architectural Testing, Inc., Test Report No. **ATI-89818.01-401-18**, dated 03/19/09, signed and sealed by Joseph A. Reed, P.E.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0802.04

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B. TESTS (CONTINUED)

4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series FG-5000 reinforced flush, dry glazed aluminum storefront system, prepared by Architectural Testing, Inc., Test Report No. **ATI-88723.02-401-18**, dated 02/24/09, signed and sealed by Joseph A. Reed, P.E.
5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series FG-5000 reinforced flush, wet glazed aluminum storefront system, prepared by Architectural Testing, Inc., Test Report No. **ATI-86111.01-401-18**, dated 02/09/09, signed and sealed by Joseph A. Reed, P.E.
6. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series FG-5000 reinforced flush glazed aluminum storefront system, prepared by Architectural Testing, Inc., Test Report No. **ATI-A1052.01-801-18**, dated 08/16/10, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 07/26/16, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).



Manuel Perez, P.E.
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E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers"** dated 06/25/15, expiring on 07/04/18.
2. ***Exterior Gasket: EPG Part No. FG-1130, EPDM Dense Rubber Extrusion with 70 durometer ext. glazing gasket (.500" x .548") complying with ASTM C864 Option II specs., ASTM D412, 1500 PSI, ASTM D395B, 22 HRS 158°F.***
3. ***Interior Dry Glazed Gasket: Part No. FG-5948, Closed Cell ("sponge") EPDM rubber compound, interior glazing gasket (.381" x .718") complying with ASTM C509 Option II specification compression deflection limit 20-24psi.***

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, dated July 25, 2016, issued by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.
2. Statement letter of no financial interest, dated July 25, 2016, issued by Tilteco, Inc., signed and sealed by Walter A. Tillit, Jr., P.E.

G. OTHERS

1. None.



Manuel Perez, P.E.
Product Control Examiner
NOA No. 16-0802.04

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PRODUCT APPROVAL FOR SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM FOR USE IN HURRICANE ZONES REQUIRING LARGE & SMALL MISSILE IMPACT PROTECTION (DRY GLAZED).

GENERAL NOTES:

- SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED GLASS, SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2014(5th EDITION) OF THE FLORIDA BUILDING CODE. SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM MAY BE INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE, AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2. IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO TO COMPARE THESE W/ MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2012.

THIS PRODUCT'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER PROTOCOLS TAS-201, TAS-202, TAS-203, PER ARCHITECTURAL TESTING, INC. LABORATORY REPORTS # 74785.02-401-18, 89818.01-401-18, 86107.01-401-18, 86111.01-401-18, 88723.01-401-18 (DRY GLAZED), A1052.01-801-18 AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1616 OF THE FLORIDA BUILDING CODE.
- MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR THIS WINDOW WALL SYSTEM SHALL BE AS SHOWN ON SHEETS 6, 7, 8, 8A, 13, 19 AND 20.
- THIS PRODUCT WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.
- THIS PRODUCT IS APPROVED FOR AIR/WATER INFILTRATION (SEE SCHEDULE ON SHEET 7).
- SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED GLASS SHALL COMPLY WITH SECTIONS 2406.1, 2411.4.1 AND 2411.4.2 OF THE FLORIDA BUILDING CODE.
- PROVIDE 1 3/8" MAX. LOAD BEARING SHIM (TYP.), WHEN ALLOWED BY THIS DRAWING.
- WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BUCKS MUST BE SOUTHERN PINE, G = 0.55.
- REMAINING COMPONENTS FOR THIS WINDOW WALL SYSTEM SHALL BE AS INDICATED ON BILL OF MATERIALS, SHEET 3 OF THIS DRAWING.
- ALL ALUMINUM EXTRUSIONS IN CONTACT WITH STEEL, CONCRETE, GROUT FILLED CONCRETE BLOCK AND WOOD SHALL COMPLY WITH SECTIONS 2003.8.4.2, 2003.8.4.4, 2003.8.5 AND 2003.8.6 OF THE FLORIDA BUILDING CODE, RESPECTIVELY.
- SHOP DRAWINGS PREPARED BASED ON THIS APPROVAL AND TAKING INTO ACCOUNT THE SPECIFIC JOB CONDITIONS, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AS PART OF THE PERMIT DOCUMENTS.
- STRUCTURAL SUBSTRATES NOTED ON THIS DRAWING AS EXISTING STEEL BY OTHERS, POURED CONCRETE, GROUT FILLED CONCRETE BLOCK AND WOOD MUST WITHSTAND THE LOADS IMPOSED BY THIS PRODUCT.
- (a) THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEViate FROM THE P.A.D.

(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.A.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

- WINDOW WALL SYSTEM MANUFACTURER'S LABEL SHALL BE PLACED ON A READILY VISIBLE LOCATION. ONE LABEL SHALL BE PLACED FOR EVERY UNIT. LABEL SHALL READ AS FOLLOWS:

Oldcastle
BuildingEnvelope™

TERRELL TX.

MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

SERIES (FG-5000 FLUSH GLAZED) ALUMINUM WINDOW WALL SYSTEM - L.M.I.

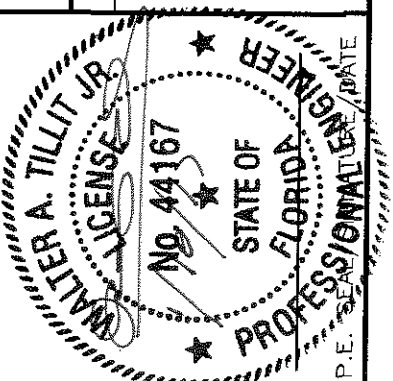
INDEX:

- SHEET 1: GENERAL NOTES, INDEX AND INSTRUCTIONS.
SHEET 2: COMPONENTS.
SHEET 3: BILL OF MATERIALS.
SHEET 4: ISOMETRIC ELEVATION FOR FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM.
SHEET 5: TYPICAL GLAZING DETAILS & GLASS SCHEDULE.
SHEET 6: MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR A GIVEN GLASS TYPE AND GLASS PANEL DIMENSIONS.
SHEET 7: MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD AND CORNER MULLIONS.
SHEET 8: MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR MULLION CONNECTIONS W/ 4" MIN. E.D. EXCEPT AS NOTED.
SHEET 8A: MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR MULLION CONNECTIONS W/ 2 3/4" MIN. E.D.. EXCEPT AS NOTED.
SHEET 9: SILL AND HEAD CONNECTIONS DETAILS FOR STANDARD MULLIONS AND JAMBS (PLAN VIEWS).
SHEET 10: SILL AND HEAD CONNECTION DETAILS FOR CORNER MULLIONS (PLAN VIEWS).
SHEET 11: HEAD CONNECTION DETAILS (SIDE VIEW).
SHEET 12: HEAD CONNECTION DETAILS (SIDE VIEW) (CONTINUED).
SHEET 13: HORIZONTAL CONNECTION DETAIL (SIDE VIEW), WINDOW WALL ELEVATION W/ HORIZONTAL, MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR HORIZONTAL AND MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR JAMBS W/O ANCHORAGE.
SHEET 14: SILL CONNECTION DETAILS (SIDE VIEWS).
SHEET 15: SILL CONNECTION DETAILS (SIDE VIEWS) (CONTINUED).
SHEET 16: SILL CONNECTION DETAILS (SIDE VIEWS) (CONTINUED).
SHEET 17: HORIZONTAL SECTIONS AT STANDARD AND CORNER MULLION.
SHEET 18: HORIZONTAL SECTIONS AT JAMBS.
SHEET 19: MAXIMUM A.S.D DESIGN PRESSURE RATING FOR JAMBS FASTENED W/ 3/8"Ø FASTENERS.
SHEET 20: MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR JAMBS FASTENED W/ 1/2"Ø FASTENERS.
SHEET 21: CORNER DETAIL AT JAMB.

INSTRUCTIONS:

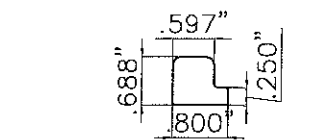
- STEP 1:** DETERMINE A.S.D. DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BUILDING HEIGHT, WIND ZONE, USING ASCE 7 STANDARD.
- STEP 2:** GO TO SCHEDULE ON SHEET 6 TO DETERMINE MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf) OF DESIRED GLASS SIZE BASED ON GLASS PANEL DIMENSIONS.
- STEP 3:** DETERMINE MAXIMUM MULLION SPAN "L"(FT) FOR A GIVEN MULLION EFFECTIVE SPACING "b", ON SCHEDULE ON SHEET 7, AND SELECT ANCHOR OPTION W/ A.S.D. DESIGN PRESSURE RATING EQUAL OR GREATER THAN DESIGN LOAD SPECIFIED IN STEP 1 USING SCHEDULES ON SHEETS 8 AND 8A.
- STEP 4:** USE SCHEDULES ON SHEETS 19 AND 20, TO SELECT JAMB ANCHOR OPTION W/ ANCHORAGE OR SHEET 13 FOR W/O ANCHORAGE WITH A.S.D. DESIGN PRESSURE RATING EQUAL OR GREATER THAN A.S.D. DESIGN LOAD SPECIFIED IN STEP 1.
- STEP 5:** USE SCHEDULE ON SHEET 13, TO VERIFY MAXIMUM A.S.D. DESIGN PRESSURE RATING OF HORIZONTALS (IF USED), TO BE EQUAL OR GREATER THAN DESIGN LOAD SPECIFIED IN STEP 1.
- STEP 6:** THE LOWEST VALUE OF A.S.D. DESIGN PRESSURE RATING RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO THE ENTIRE SYSTEM.

THIS DRAWING SHALL BE USED ONLY TO OBTAIN PERMITS
IN THE STATE OF FLORIDA

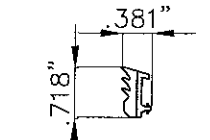
DRAWN BY: F.R.L.	DATE 06/24/16	DRAWING No 16-067	SHEET 1 OF 21
SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)			
Oldcastle BuildingEnvelope™ 803 Airport Rd - Terrell, TX 75160 www.OldcastleBE.com - Phone 800-869-4567			
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)			
©2016 TILTECO, INC.			
TILTECO inc. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VERO BEACH, FL 33166 Phone: (305) 671-1530 Fax: (305) 671-1551 e-mail: tilteco@tillit.com EB-0006719 WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167			
			
Approved as complying with the Florida Building Code Date: Feb. 9, 2017 NOA# 16-0852-04 Miami Dade Product Control <i>Manuel Diaz</i> MIAMI-DADE COUNTY			

FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM COMPONENTS

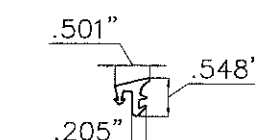
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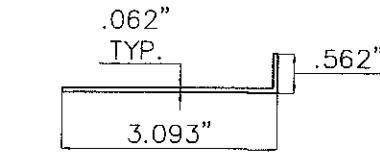
② SETTING BLOCK
FG-5199



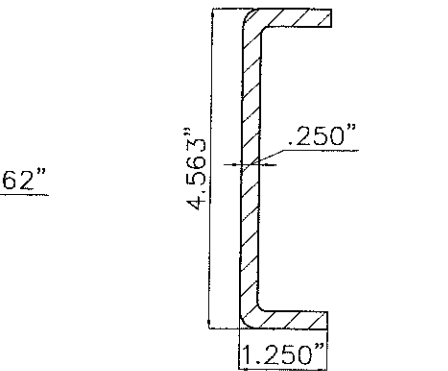
③ GASKET
FG-5948



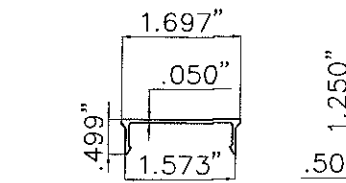
④ GASKET
FG-1133



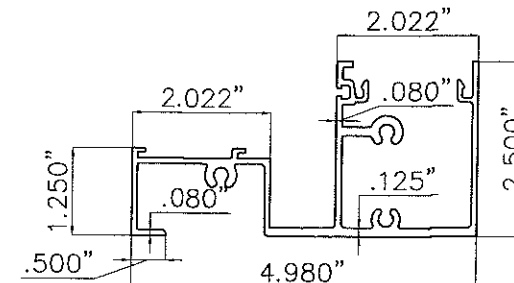
⑤ SILL END DAM
FG-5000-FP10



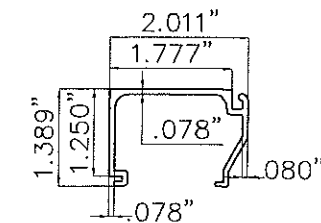
⑥ STEEL REINFORCEMENT
FG-5000-PP8



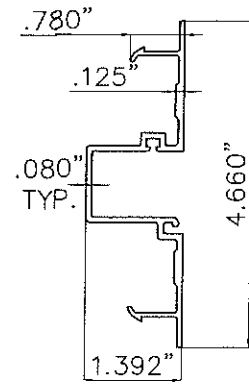
⑦ CHANNEL FILLER
@ HEAD & SILL
FG-5113



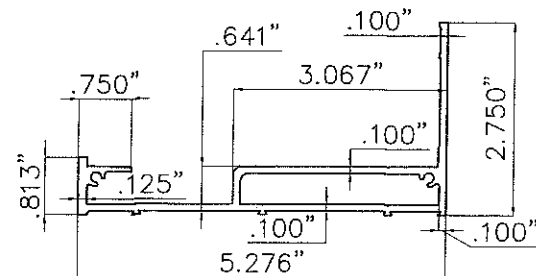
⑧ HEAD / SILL
FG-5204



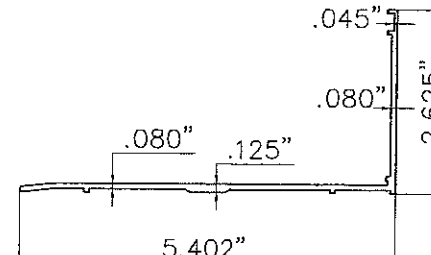
⑨ GLASS STOP
FG-5190



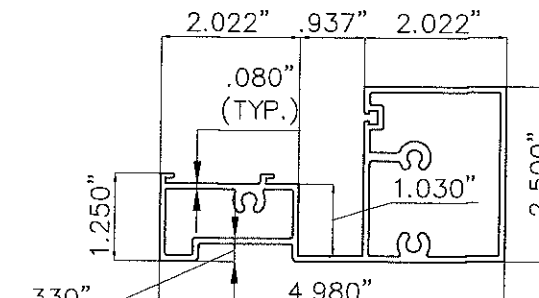
⑩ POCKET FILLER
FG-5196



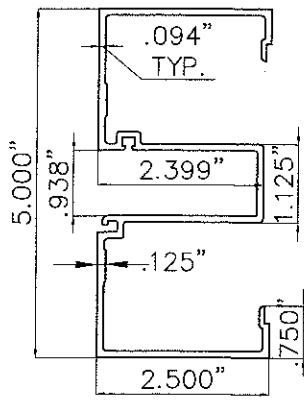
⑪ HIGH PERFORMANCE
SILL PAN
FG-5205



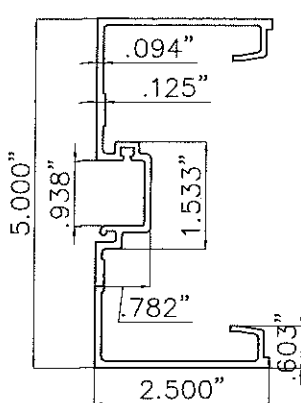
⑫ SILL PAN
FG-5180



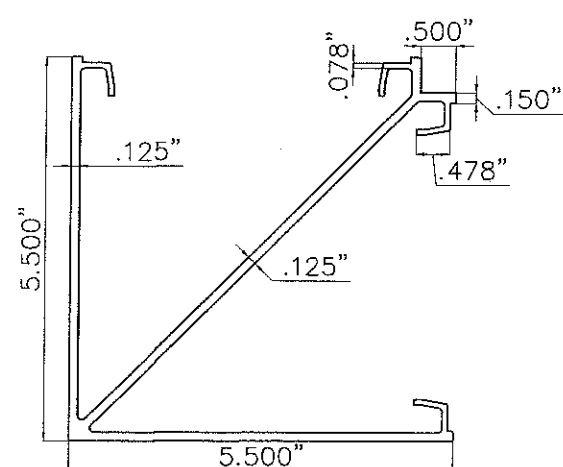
⑬ SILL / HEAD
FG-5206



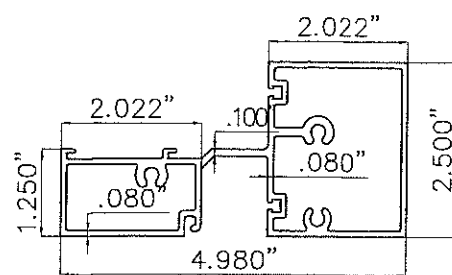
⑭ JAMB
FG-5201



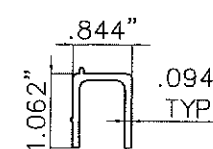
⑮ MULLION
FG-5193



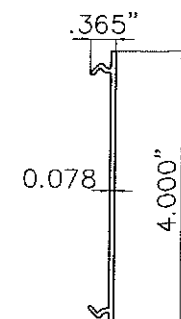
⑯ 90 DEGREE CORNER MULLION
FG-5200



⑰ HORIZONTAL
FG-5202



⑱ SETTING CHAIR
FG-5192



⑲ VINYL FILLER
FG-2188

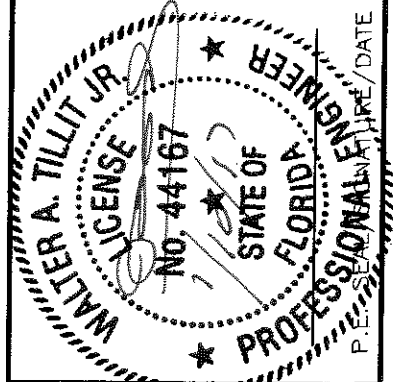
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

SERIES FG-5000 FLUSH GLAZED
ALUMINUM WINDOW WALL SYSTEM
LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)

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803 Airport Rd - Terrell, TX 75160
www.OldcastleBE.com - Phone 800-869-4567



Approved as complying with the
Florida Building Code
Date: Feb. 9, 2017
NOAH 16-0802-04
Miami Dade Product Control
Manuel Perez

MIAMI-DADE COUNTY

DRAWN BY:
F.R.L.

06/24/16
DATE

16-067
DRAWING No

SHEET 2 OF 21

BILL OF MATERIALS

ITEM No.	PART NUMBER	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
1.	FS-54	PHILLIPS FLAT HEAD MACHINE SCREW UC	#10-24 x 3/8"	STEEL	VARIES	ZINC COATED, PER ASTM B-633.
2.	FG-5199	SETTING BLOCK	.800" x .688" x 4.00"	EPDM	EPG	
4.	FG-1133	GASKET	.500" x .548"	EPDM	EPG	
7.	FS-8	SPLINE ASSEMBLY SCREW	#14 x 1" HHSTS FS-322	STEEL	VARIES	STALGARD COATED, BY ELCO
8.	ANCHOR	SILL ANCHOR SCREW	#14 x 3/4" HHVTEK		ITW/BUILDEX	ZINC COATED, PER ASTM B-633.
9.	ANCHOR	HEAD ANCHOR SCREW	#14 x 1 1/2" HHVTEK		ITW/BUILDEX	ZINC COATED, PER ASTM B-633.
11.	FASTENER	PPH SELF TAPPING SCREW	#10 x 2 1/2"	STEEL	VARIES	ZINC COATED, PER ASTM B-633.
12.	FASTENER	PPH STEEL ATTACHMENT SCREW	#10 x 1"	STEEL	VARIES	ZINC COATED, PER ASTM B-633.
13.	SM-5601	ISOCRYL TAPE	.125" x .500" VARIES	POLYISOBUTYLENE	SCHNEE-MOOREHEAD	
14.	FG5000-FP-5	WATER DIVERTER	.876" x .54147" x .040"	RIGID PVC	OBE	
15.	FG-5000-FP-10	SILL END DAM	3.500" x .562" x 0.062" x 5.000"	6063-T6 ALUMINUM	OBE	
16.	FG-5000-PP8	STEEL REINFORCEMENT	1.250" x 4.563" x .250"	ZINC PAINTED STEEL	VARIES	ASTM A-36
17.	FG-5113	CHANNEL FILLER @ HEAD & SILL	1.697" x .500" x .062"	6063-T5	OBE	
18.	FG-5204	HEAD / SILL	4.980" x 2.500" x .080"	6063-T6	OBE	
19.	FG-5190	GLASS STOP	2.010" x 1.392" x .078"	6063-T5	OBE	
20.	FG-5196	POCKET FILLER	4.660" x 1.392" x .080"	6063-T5	OBE	
21.	FG-5205	HIGH PERFORMANCE SILL PAN	5.276" x 2.750" x .100"	6063-T6	OBE	
22.	FG-5180	SILL PAN	5.402" x 2.625" x .080"	6063-T6	OBE	
23.	FG-5206	SILL / HEAD	4.980" x 2.500" x .080"	6063-T6	OBE	
24.	FG-5201	JAMB	5.000" x 2.500" x .094"	6063-T6	OBE	
25.	NOT USED					
26.	FG-5193	MULLION	5.000" x 2.500" x .094"	6063-T6	OBE	
27.	FG-5200	90 DEGREE CORNER MULLION	5.500" x 5.500" x .125"	6063-T6	OBE	
28.	FG-5202	HORIZONTAL	4.980" x 2.500" x .080"	6063-T6	OBE	
30.	795	PERIMETER SEALANT	-	SILICONE	DOW CORNING	# 795
31.	FG-5192	SETTING CHAIR	.844" x 1.062" x .094"	6063-T5	OBE	
32.	FG-2122	ALUMINUM JAMB FILLER	4.000" x .365" x .078"	6063-T6	EPG	
34.	ANCHOR	PFH TEK SCREW	#10 x 2.000"	ZINC COATED STEEL	VARIES	ZINC COATED, PER ASTM B-633.
35.	FG-5948	INTERIOR GASKET	.381" x .718"	EPDM	EPG	DRY GLAZED GASKET.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

**SERIES FG-5000 FLUSH GLAZED
ALUMINUM WINDOW WALL SYSTEM
LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)**

DRAWN BY:
F.R.L

Oldcastle BuildingEnvelope™

6-067
DRAWING No

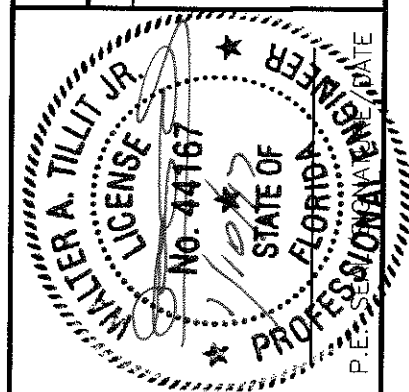
SHEET 3 OF 2

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ILFECO INC.

TILLIT TESTING & ENGINEERING COMPANY
3355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 • Fax : (305)871-1531
e-mail: tilttest@aol.com

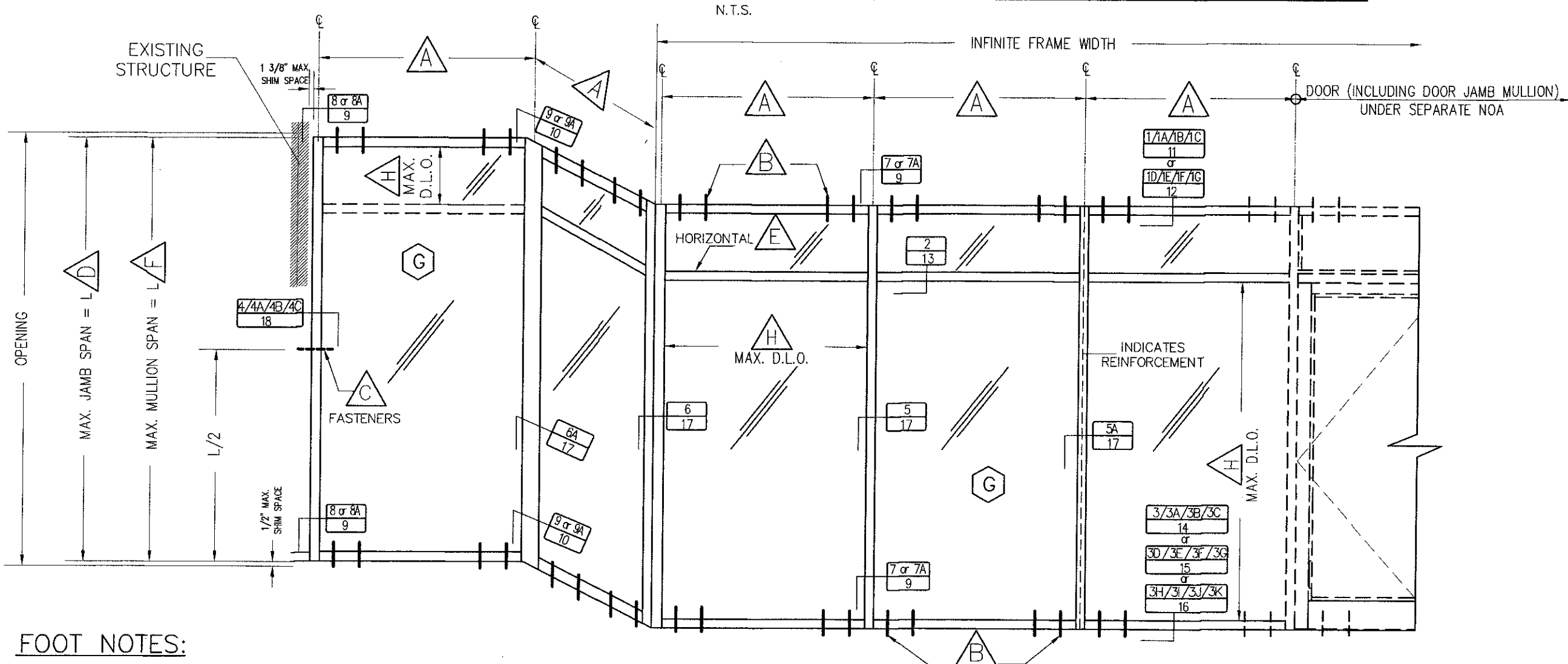
EB-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167



Approved as complying with the
Florida Building Code
Date Feb. 9, 2017
NOA# 16-0802-04
Hazard Data Product Control
74

MIAMI-DADE COUNTY

ISOMETRIC ELEVATION FOR FG-5000 FLUSH GLAZED ALUM. WINDOW WALL SYSTEM

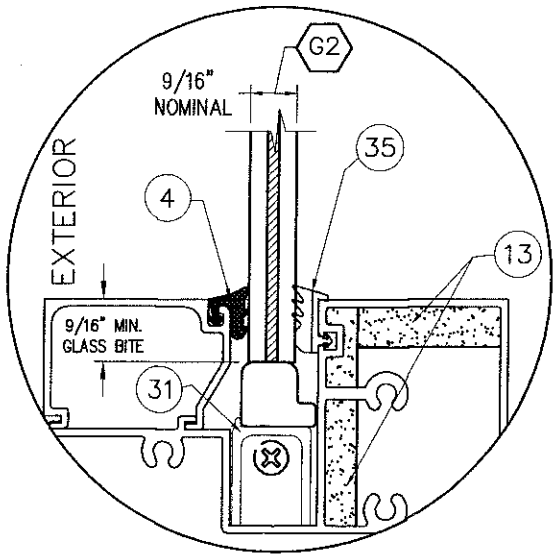


FOOT NOTES:

- A** FOR MAXIMUM MULLION SPACING SEE SHEET 7, EXCEPT THAT MAXIMUM MULLION SPACING AT LAST WINDOW WALL PANEL INSTALLED ADJACENT TO DOOR (WHEN APPLICABLE) SHALL NOT EXCEED 5'-0".
- B** FOR HEAD AND SILL FASTENERS QUANTITY, TYPES AND SPECS SEE SHEETS 8 & 8A.
- C** SEE SHEETS 19 & 20 FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR JAMB CONNECTED TO EXISTING STRUCTURE.
- D** SEE SHEET 13 FOR MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR JAMB NOT CONNECTED TO EXISTING STRUCTURE.
- E** USE OF HORIZONTALS (SEE SECTION 2/13) IS LIMITED BY SCHEDULE ON SHEET 13.
- F** FOR MAXIMUM MULLION SPAN SEE SHEET 7.
- G** FOR GLAZING DETAILS AND GLASS SCHEDULE SEE SHEET 5.
- H** FOR MAXIMUM D.L.O. AND A.S.D. DESIGN PRESSURE RATING FOR GLASS, SEE SCHEDULE ON SHEET 6.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)		DRAWN BY: F.R.L.		DATE 06/24/16	
SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)		oldcastle BuildingEnvelope™ 803 Airport Rd - Terrell, TX 75160 www.OldcastleBE.com - Phone 800-869-4567		DRAWING No 16-067	
TILECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th, St. Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 · Fax : (305)871-1531 e-mail: tileco@aol.com EB-0006719 WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167		REV. No 1 2		DATE 12/23/16 3 4	
APPROVED as complying with the Florida Building Code Date: Feb 9, 2017 NOA# 16-0262-04 Miami Dade Product Control Manuel Perez		P.E. SEAL SIGNATURE/DATE		MIAMI-DADE COUNTY	

TYPICAL GLAZING DETAILS



GLASS TYPE **G2**

GLASS SCHEDULE			
GLASS LABEL	GLASS COMPOSITION	MANUFACTURER NAME	MAXIMUM D.L.O.
G2	3/8" OVERALL THICKNESS LAMINATED GLASS CONSISTING OF TWO 1/8" HS GLASS, AND A 0.090" SENTRYGLAS PLUS INTERLAYER	KURARAY	SEE SCHEDULE ON SHEET 6

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
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EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM
LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)

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DRAWN BY:
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08/24/16
DATE

16-067
DRAWING No

SHEET 5 OF 21

WALTER A. TILLIT JR.
LICENSE
NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SIGNATURE/DATE

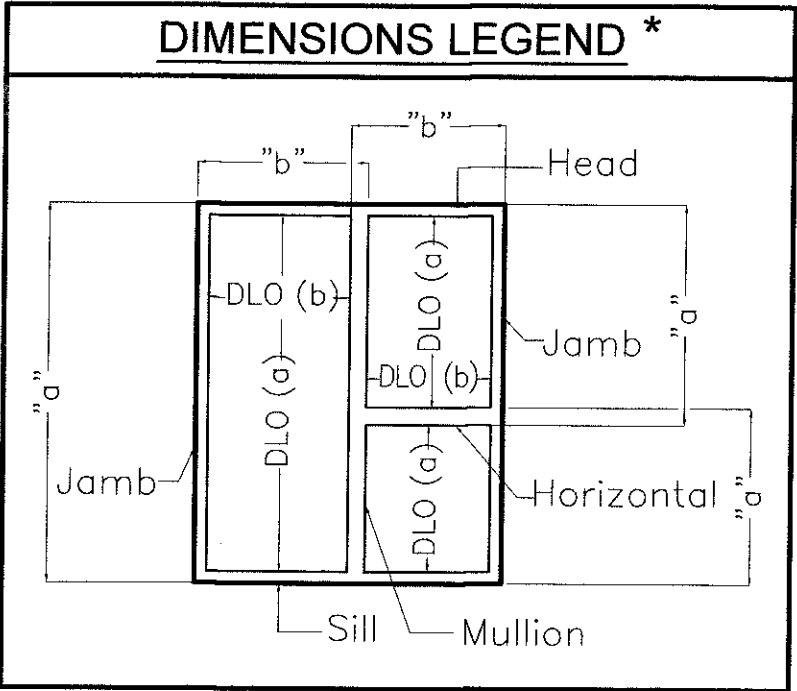
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Florida Building Code
Date Feb. 9, 2017
40A# 16-0802-04
Miami Dade Product Control
Manuel Perez
MIAMI-DADE COUNTY

MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf) SCHEDULE FOR A GIVEN GLASS TYPE
AND GLASS PANEL DIMENSIONS "b" (in) x "a" (in) (SEE LEGEND)

GLASS TYPE G2		
DIMENSION "b" *	DIMENSION "a" *	MAXIMUM A.S.D DESIGN PRESSURE RATING(psf)
24"	from 24" to 115"	+60.0, -70.0
30"	from 30" to 115"	+60.0, -70.0
36"	from 36" to 115"	+60.0, -70.0
42"	from 42" to 115"	+60.0, -70.0
47.5"	from 47.5" to 115"	+60.0, -70.0
54"	from 54 to 101"	+60.0, -70.0
57.5"	from 57.5" to 95"	+60.0, -70.0

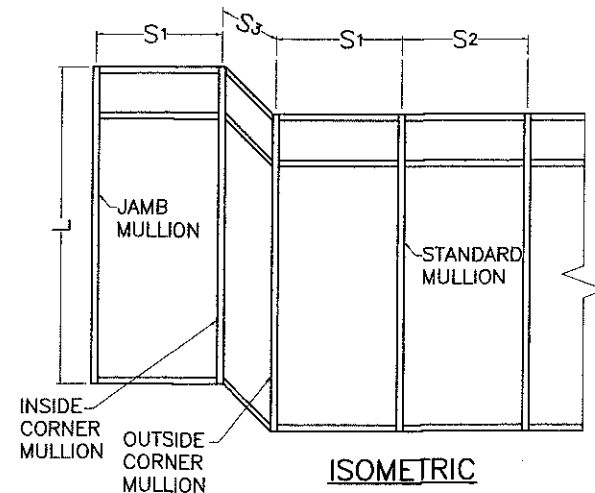
* DETERMINATION OF MAXIMUM
DAY LIGHT OPENING (D.L.O.)
AT EACH END OF GLASS
GIVEN "b" & "a"

SIDE	MAXIMUM DAY LIGHT OPENING	
	(D.L.O.) Formula at Vertical & Horizontal Mullions	(D.L.O.) Formula at Jamb, Head & Sill Frames
MAX. D.L.O. (b) (SHORT SIDE)	"b"-5.00"	"b"-5.00"
MAX. D.L.O. (a) (LONG SIDE)	"a"-5.00"	"a"-5.00"



* SIDE "b" IS ALWAYS EQUAL OR SHORTER THAN "a".
"b", "a" MAY BE ORIENTED IN ANY DIRECTION.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)		DRAWN BY: F.R.L.	06/24/16 DATE	16-067 DRAWING No	SHEET 6 OF 21
SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)		Oldcastle BuildingEnvelope™ 803 Airport Rd - Terrell, TX 75160 www.OldcastleBE.com • Phone 800-869-4567			
TILECO inc. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 e-mail: titlco@aol.com EB-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167		REV. No. 1 DATE 12/23/16 DESCRIPTION REV. No. 2 DATE DESCRIPTION			
approved as complying with the Florida Building Code Date: Feb 9, 2017 NOA# 16-0807-04 Miami Dade Product Control Signature: [Signature]		WALTER A. TILLIT JR. LICENSE No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER P. SIGNATURE/DATE			
MIAMI-DADE COUNTY					



ISOMETRIC

L = MULLION SPAN

EFFECTIVE SPACING $b = \frac{S_1 + S_2}{2}$ (SEE SCHEDULE,) (FOR STANDARD MULLION)

EFFECTIVE SPACING $b = \frac{S_1 + S_3}{2}$ (SEE SCHEDULE) (FOR CORNER MULLION)

CASE DEFINITIONS

CASE 1 : UNREINFORCED STANDARD MULLION A (SEE DET. 5/17)

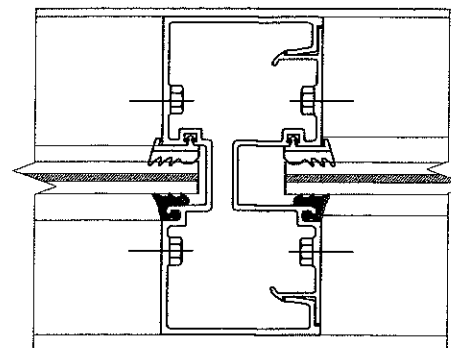
CASE 2 : REINFORCED STANDARD MULLION B FULL HEIGHT. (SEE DET. 5A/17)

CASE 3 : CORNER MULLION C FULL HEIGHT. (SEE DET. 6/17 & 6A/17) (EITHER INSIDE OR OUTSIDE)

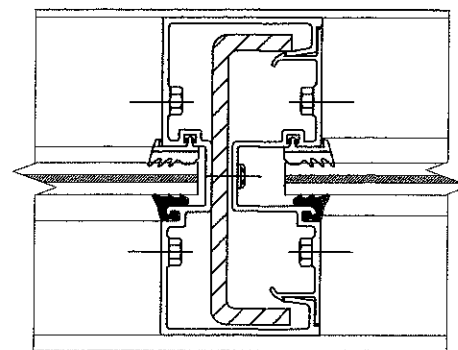
* MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD & CORNER MULLION WILL AUTOMATICALLY QUALIFY A.S.D. DESIGN PRESSURE RATINGS FOR JAMBS W/ ANCHORAGE FOR ANY GIVEN MULLION SPACING. FOR MAX. JAMB SPAN W/O ANCHORAGE SEE SCHEDULE ON SHEET 13. JAMB ANCHORAGE (WHEN USED) SHALL BE PERFORMED AT MID HEIGHT OF JAMBS.

** FOR ALL INSTALLATIONS WHERE HORIZONTALS ARE USED, VERTICAL STANDARD MULLIONS MUST BE REINFORCED AS PER CASE 2, MULLION B.

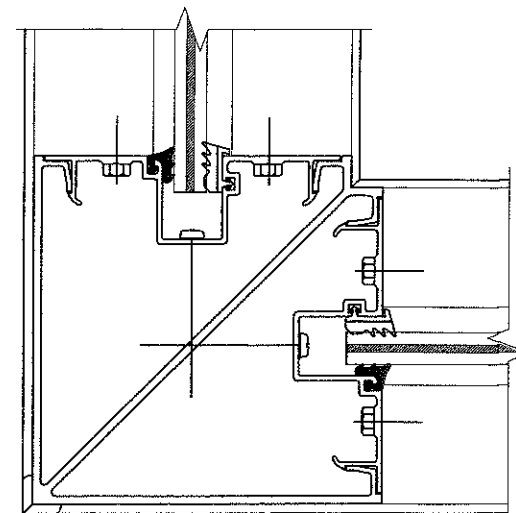
A	CASE:1	$l_x = 5.580 \text{ in4}$
	STANDARD MULLION (26) + (20)	$S_x = 2.227 \text{ in3}$
	AIR/WATER INFILTRATION IS 9.75 psf IN TERMS OF ALUM.	



B	CASE:2	$l_x = 18.180 \text{ in4}$
	STANDARD MULLION (26) + (20) W/ STEEL CHANNEL (16)	$S_x = 7.266 \text{ in3}$
	AIR/WATER INFILTRATION IS 15 psf IN TERMS OF ALUM.	



C	CASE:3	$l_x = 17.141 \text{ in4}$
	OUTSIDE/INSIDE CORNER MULLION (27) + (20)	$S_x = 4.336 \text{ in3}$
	AIR/WATER INFILTRATION IS 10.5 psf IN TERMS OF ALUM.	



MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR STANDARD & CORNER MULLIONS *

MAXIMUM MULLION SPAN "L"(FT) SCHEDULE FOR A GIVEN A.S.D. DESIGN PRESSURE RATING AND A GIVEN MULLION EFFECTIVE SPACING "b"

MAXIMUM A.S.D.DESIGN PRESSURE RAITING (psf)	EFFECTIVE SPACING "b" (Ft-in)	CASE 1	CASE 2	CASE 3
		STANDARD UNREINFORCED MULLION A "L" (Ft-in)	STANDARD REINFORCED MULLION B "L" (Ft-in)	OUTSIDE/INSIDE CORNER MULLION C "L" (Ft-in)
60.0	3'-6"	9'-0"	10'-0"	10'-0"
	4'-0"	8'-10"	10'-0"	10'-0"
	4'-6"	8'-2"	10'-0"	10'-0"
	5'-0"	7'-4"	10'-0"	10'-0"
	5'-6"	6'-8"	10'-0"	10'-0"
	6'-0"	6'-1"	10'-0"	10'-0"
	6'-6"	5'-8"	9'-10"	10'-0"
	7'-0"	5'-3"	9'-6"	9'-8"
	7'-6"	4'-11"	9'-0"	9'-0"
	8'-0"	4'-7"	8'-5"	8'-5"
65.0	3'-6"	9'-0"	10'-0"	10'-0"
	4'-0"	8'-5"	10'-0"	10'-0"
	4'-6"	7'-6"	10'-0"	10'-0"
	5'-0"	6'-9"	10'-0"	10'-0"
	5'-6"	6'-2"	10'-0"	10'-0"
	6'-0"	5'-8"	9'-10"	10'-0"
	6'-6"	5'-2"	9'-6"	9'-7"
	7'-0"	4'-10"	8'-11"	8'-11"
	7'-6"	4'-6"	8'-4"	8'-4"
	8'-0"	4'-3"	7'-9"	7'-9"
70.0	3'-6"	9'-0"	10'-0"	10'-0"
	4'-0"	8'-5"	10'-0"	10'-0"
	4'-6"	7'-6"	10'-0"	10'-0"
	5'-0"	6'-9"	10'-0"	10'-0"
	5'-6"	6'-2"	10'-0"	10'-0"
	6'-0"	5'-8"	9'-10"	10'-0"
	6'-6"	5'-2"	9'-6"	9'-8"
	7'-0"	4'-10"	8'-11"	8'-11"
	7'-6"	4'-6"	8'-4"	8'-4"
	8'-0"	4'-3"	7'-9"	7'-9"
75.0	3'-6"	9'-0"	10'-0"	10'-0"
	4'-0"	8'-5"	10'-0"	10'-0"
	4'-6"	7'-6"	10'-0"	10'-0"
	5'-0"	6'-9"	10'-0"	10'-0"
	5'-6"	6'-2"	10'-0"	10'-0"
	6'-0"	5'-8"	9'-10"	10'-0"
	6'-6"	5'-2"	9'-6"	9'-8"
	7'-0"	4'-10"	8'-11"	8'-11"
	7'-6"	4'-6"	8'-4"	8'-4"
	8'-0"	4'-3"	7'-9"	7'-9"
76.0	3'-6"	9'-0"	10'-0"	10'-0"
	4'-0"	8'-5"	10'-0"	10'-0"
	4'-6"	7'-6"	10'-0"	10'-0"
	5'-0"	6'-9"	10'-0"	10'-0"
	5'-6"	6'-2"	10'-0"	10'-0"
	6'-0"	5'-8"	9'-10"	10'-0"
	6'-6"	5'-2"	9'-6"	9'-8"
	7'-0"	4'-10"	8'-11"	8'-11"
	7'-6"	4'-6"	8'-4"	8'-4"
	8'-0"	4'-3"	7'-9"	7'-9"
80.0	3'-6"	9'-0"	10'-0"	10'-0"
	4'-0"	8'-5"	10'-0"	10'-0"
	4'-6"	7'-6"	10'-0"	10'-0"
	5'-0"	6'-9"	10'-0"	10'-0"
	5'-6"	6'-2"	10'-0"	10'-0"
	6'-0"	5'-8"	9'-10"	10'-0"
	6'-6"	5'-2"	9'-6"	9'-8"
	7'-0"	4'-10"	8'-11"	8'-11"
	7'-6"	4'-6"	8'-4"	8'-4"
	8'-0"	4'-3"	7'-9"	7'-9"
85.0	3'-6"	9'-0"	10'-0"	10'-0"
	4'-0"	8'-5"	10'-0"	10'-0"
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	5'-0"	6'-9"	10'-0"	10'-0"
	5'-6"	6'-2"	10'-0"	10'-0"
	6'-0"	5'-8"	9'-10"	10'-0"
	6'-6"	5'-2"	9'-6"	9'-8"
	7'-0"	4'-10"	8'-11"	8'-11"
	7'-6"	4'-6"	8'-4"	8'-4"
	8'-0"	4'-3"	7'-9"	7'-9"

▲ SPANS ONLY VALID FOR UP TO 90.0psf. ASD NEGATIVE DESIGN LOAD. MAX. SPAN FOR POSITIVE LOADS SHALL BE LIMITED BY 70.0psf ASD LOAD.

+ SPANS ONLY VALID FOR UP TO 80.0psf. ASD NEGATIVE DESIGN LOAD. MAX. SPAN FOR POSITIVE LOADS SHALL BE LIMITED BY 70.0psf ASD LOAD.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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F.R.L.

DATE
06/24/16

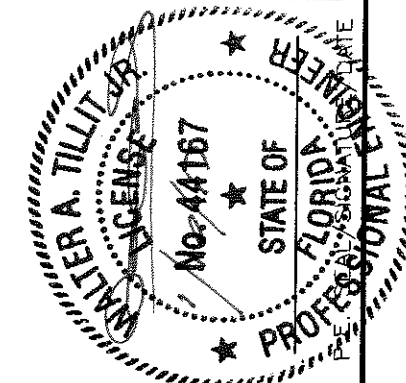
DRAWING No
16-067

SHEET 7 OF 21

SERIES FG-5000 FLUSH GLAZED
ALUMINUM WINDOW WALL SYSTEM
LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)

Oldcastle BuildingEnvelope™
803 Airport Rd - Terrell, TX 75160
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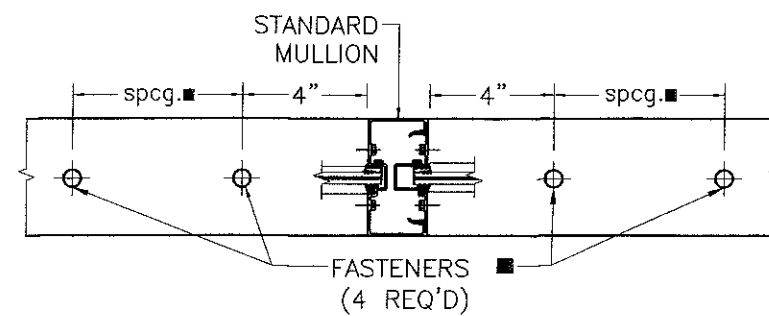
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Miami Dade Product Control

Manuel Perez

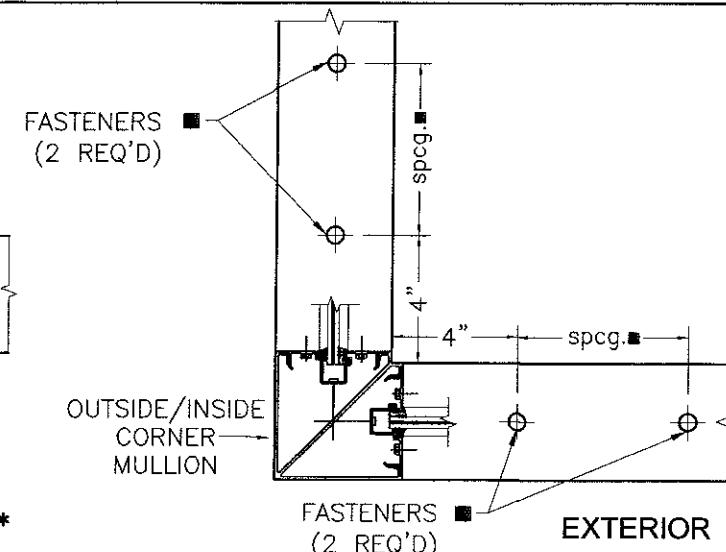
MIAMI-DADE COUNTY

MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR MULLION CONNECTIONS ■

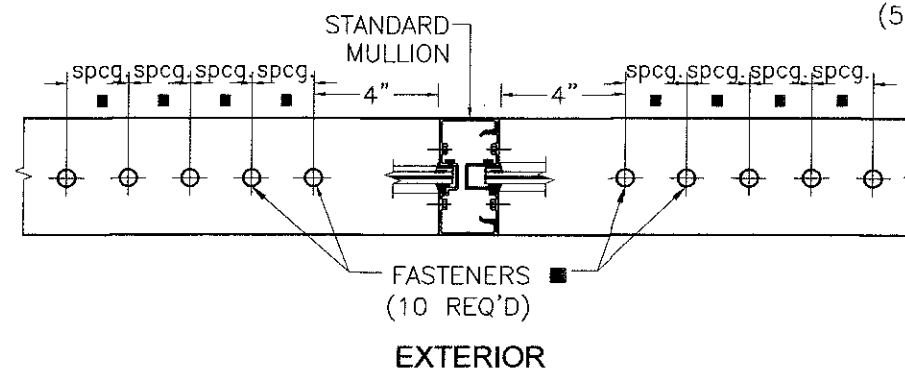
MAXIMUM MULLION SPAN	EFFECTIVE SPACING	MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)						
		POURED CONCRETE (Min. f _c = 3ksi) SUBSTRATE			1½" Min. THK ASTM A-36 STEEL SUBSTRATE	DOUBLE BUCK 3" Min. THK. (G=0.55) WOOD SUBSTRATE	DOUBLE BUCK 3" M THK. (G=0) WOOD SUBSTRATE	
		FASTENERS TYPES			FASTENERS	FASTENERS	FASTENERS	
		A 4 anchors	B 4 anchors	C 4 anchors	D 4 Bolts	E 10 Lag screws	E' 10 Lag screws	
6' - 2"	3' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	7' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	8' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
6' - 6"	3' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	7' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	8' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
7' - 0"	3' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	7' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	8' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
7' - 6"	3' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	7' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	8' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
8' - 0"	3' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	7' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	8' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
8' - 6"	3' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	7' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	8' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
9' - 0"	3' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	7' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	8' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
9' - 6"	3' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	7' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	8' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
10' - 0"	3' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	5' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	6' - 6"	90.0	90.0	90.0	90.0	90.0	90.0	
	7' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	
	8' - 0"	90.0	90.0	90.0	90.0	90.0	90.0	



EXTERIOR
SCHEMATIC CONCRETE & STEEL CONNECTION DETAIL *
(AT STANDARD MULLION)

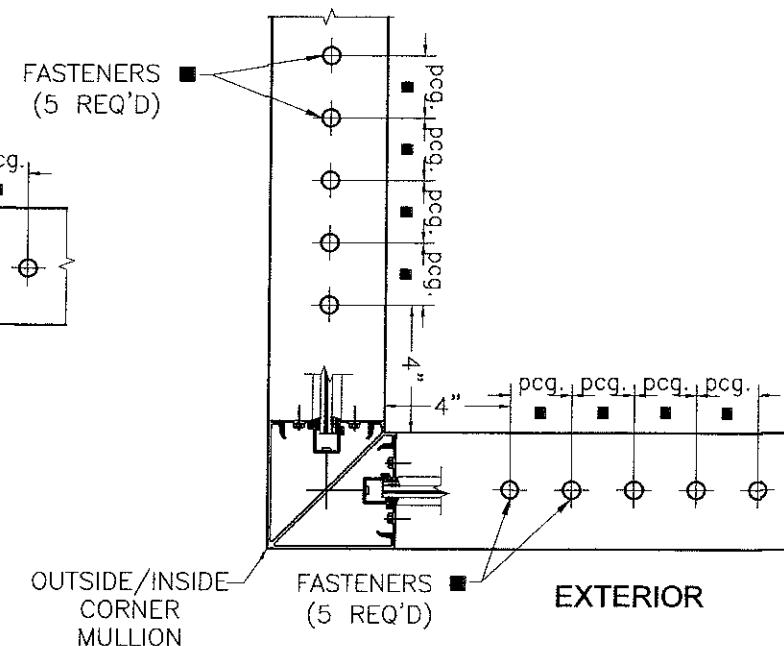


SCHEMATIC CONCRETE & STEEL CONNECTION DETAIL *
(AT OUTSIDE/INSIDE CORNER MULLION)



SCHEMATIC WOOD CONNECTION DETAIL *

(AT STANDARD MULLION)



SCHEMATIC WOOD CONNECTION DETAIL *
(AT OUTSIDE/INSIDE CORNER MULLION)

FASTENERS TYPES AND SUBSTRATES REQUIREMENTS W/ INDICATED MIN. E.D. & SPACING (spcg.). BEYOND ANY FINISH MATERIAL

- A - 3/8"Ø HILTI KWIK BOLT TZ ANCHOR W/ 2" Min. EMBEDMENT INTO 6" Min. THICK POURED CONCRETE (Min. $f_c = 3$ ksi), 4" MIN. EDGE DISTANCE & 4" MIN. SPACING, BEYOND ANY FINISH MATERIAL.
- B - 3/8"Ø POWER FASTENERS TAPPER ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE (Min. $f_c = 3$ ksi) & 4 1/2" MIN. EDGE DISTANCE & 4 1/2" MIN. SPACING, BEYOND ANY FINISH MATERIAL.
- C - 3/8"Ø HILTI HUS-H SCREW ANCHOR W/ 2" Min. EMBEDMENT INTO POURED CONCRETE (Min. $f_c = 3$ ksi) & 5" MIN. EDGE DISTANCE & 4" MIN. SPACING, BEYOND ANY FINISH MATERIAL.
- D - 3/8"Ø TYPE "F" BOLT OR 3/8"Ø -13 SAE GRADE 5 GALVANIZED STEEL HHB THRU BOLT W/ NUT & LOCK WASHER & 2" MIN. EDGE DISTANCE TO 1/4" Min. THK. ASTM A-36 STEEL.
- E - 3/8"Ø LAG SCREWS TO DOUBLE 2 x WOOD BUCK ($G=0.55$) W/ 3" Min. PENETRATION INTO WOOD & 1 1/2" MIN. EDGE DISTANCE & 2" MIN. SPACING, BEYOND ANY FINISH MATERIAL.
- E' - 1/2"Ø LAG SCREWS TO DOUBLE 2 x WOOD BUCK ($G=0.55$) W/ 3" Min. PENETRATION INTO WOOD & 2" MIN. EDGE DISTANCE & 2" MIN. SPACING BEYOND ANY FINISH MATERIAL.

* SEE CONNECTION DETAILS ON SHEETS 9,10 & 22

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

**SERIES FG-5000 FLUSH GLAZED
ALUMINUM WINDOW WALL SYSTEM
LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)**

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TILTECO INC.

TILLITT TESTING & ENGINEERING COMPANY
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Phone : (305)871-1530 ; Fax : (305)871-1531
e-mail: tilteco@com
EB-0006719
WALTER A. TILLITT JR. P.E.

Approved as complying with the
Florida Building Code
Date Feb 9 2017
NOA# 16-0802-04
Miami Dade Product Control
Mannuel Berg

MIAMI-DADE COUNTY

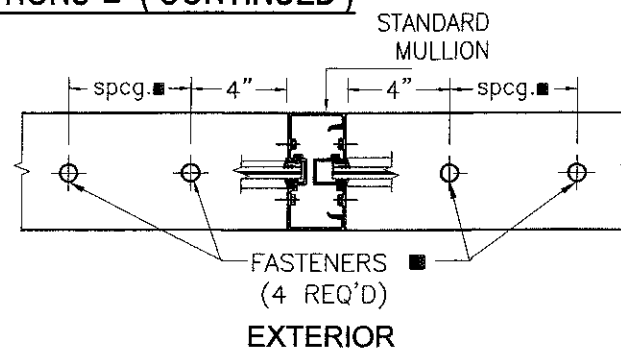
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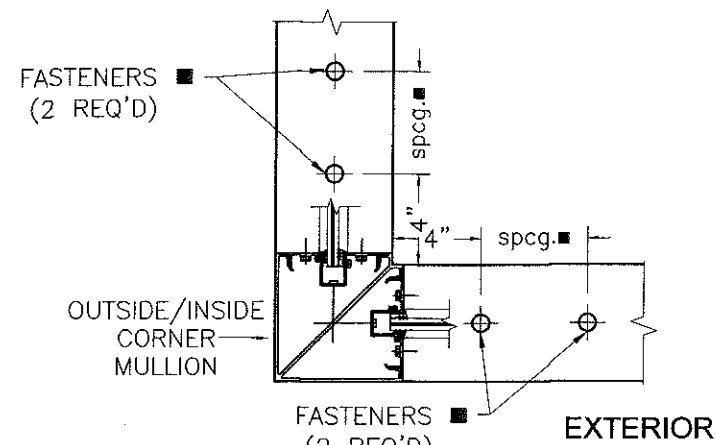
SHEET 8 OF 2

MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR MULLION CONNECTIONS ■ (CONTINUED)

MAXIMUM MULLION SPAN "L" (Ft-in)	EFFECTIVE SPACING "b" (Ft-in)	MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)						
		POURED CONCRETE (Min. f _c = 3ksi) SUBSTRATE			GROUT FILLED CONCRETE BLOCK SUBSTRATE		12 GAGE (0.108" Min. THK) Fy=33 ksi STEEL SUBSTRATE	
		F 4 anchors	G 4 anchors	H 4 anchors	G' 6 anchors	H' 6 anchors	I 4 Bolts	
6'-2"	3'-6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-6"	90.0	90.0	90.0	90.0	90.0	90.0	
	5'-0"	90.0	90.0	90.0	87.6	90.0	90.0	
	5'-6"	90.0	90.0	90.0	79.6	90.0	90.0	
	6'-0"	90.0	90.0	90.0	73.0	90.0	90.0	
	6'-6"	90.0	90.0	90.0	67.4	90.0	90.0	
	7'-0"	90.0	90.0	90.0	62.5	90.0	90.0	
6'-6"	3'-6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-6"	90.0	90.0	90.0	83.1	90.0	90.0	
	5'-0"	90.0	90.0	90.0	75.5	90.0	90.0	
	5'-6"	90.0	90.0	90.0	69.2	90.0	90.0	
	6'-0"	90.0	90.0	90.0	63.9	90.0	90.0	
	6'-6"	90.0	90.0	90.0	59.3	90.0	90.0	
	7'-0"	90.0	90.0	90.0	55.4	90.0	90.0	
7'-0"	3'-6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-6"	90.0	90.0	90.0	85.7	90.0	90.0	
	5'-0"	90.0	90.0	90.0	77.1	90.0	90.0	
	5'-6"	90.0	90.0	90.0	70.1	90.0	90.0	
	6'-0"	90.0	90.0	90.0	64.3	90.0	90.0	
	6'-6"	90.0	90.0	90.0	59.3	90.0	90.0	
	7'-0"	90.0	90.0	90.0	55.1	90.0	90.0	
7'-6"	3'-6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-6"	90.0	90.0	90.0	87.7	90.0	90.0	
	5'-0"	90.0	90.0	90.0	80.4	90.0	90.0	
	5'-6"	90.0	90.0	90.0	74.2	90.0	90.0	
	6'-0"	90.0	90.0	90.0	68.9	90.0	90.0	
	6'-6"	90.0	90.0	90.0	64.3	90.0	90.0	
	7'-0"	90.0	90.0	90.0	60.3	90.0	90.0	
8'-0"	3'-6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-6"	90.0	90.0	90.0	87.7	90.0	90.0	
	5'-0"	90.0	90.0	90.0	80.4	90.0	90.0	
	5'-6"	90.0	90.0	90.0	74.2	90.0	90.0	
	6'-0"	90.0	90.0	90.0	68.9	90.0	90.0	
	6'-6"	90.0	90.0	90.0	64.3	90.0	90.0	
	7'-0"	90.0	90.0	90.0	60.3	90.0	90.0	
8'-6"	3'-6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-6"	90.0	90.0	90.0	87.7	90.0	90.0	
	5'-0"	90.0	90.0	90.0	80.4	90.0	90.0	
	5'-6"	90.0	90.0	90.0	74.2	90.0	90.0	
	6'-0"	90.0	90.0	90.0	68.9	90.0	90.0	
	6'-6"	90.0	90.0	90.0	64.3	90.0	90.0	
	7'-0"	90.0	90.0	90.0	60.3	90.0	90.0	
9'-0"	3'-6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-6"	90.0	90.0	90.0	87.7	90.0	90.0	
	5'-0"	90.0	90.0	90.0	80.4	90.0	90.0	
	5'-6"	90.0	90.0	90.0	74.2	90.0	90.0	
	6'-0"	90.0	90.0	90.0	68.9	90.0	90.0	
	6'-6"	90.0	90.0	90.0	64.3	90.0	90.0	
	7'-0"	90.0	90.0	90.0	60.3	90.0	90.0	
9'-6"	3'-6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-6"	90.0	90.0	90.0	87.7	90.0	90.0	
	5'-0"	90.0	90.0	90.0	80.4	90.0	90.0	
	5'-6"	90.0	90.0	90.0	74.2	90.0	90.0	
	6'-0"	90.0	90.0	90.0	68.9	90.0	90.0	
	6'-6"	90.0	90.0	90.0	64.3	90.0	90.0	
	7'-0"	90.0	90.0	90.0	60.3	90.0	90.0	
10'-0"	3'-6"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-0"	90.0	90.0	90.0	90.0	90.0	90.0	
	4'-6"	90.0	90.0	90.0	87.7	90.0	90.0	
	5'-0"	90.0	90.0	90.0	80.4	90.0	90.0	
	5'-6"	90.0	90.0	90.0	74.2	90.0	90.0	
	6'-0"	90.0	90.0	90.0	68.9	90.0	90.0	
	6'-6"	90.0	90.0	90.0	64.3	90.0	90.0	
	7'-0"	90.0	90.0	90.0	60.3	90.0	90.0	

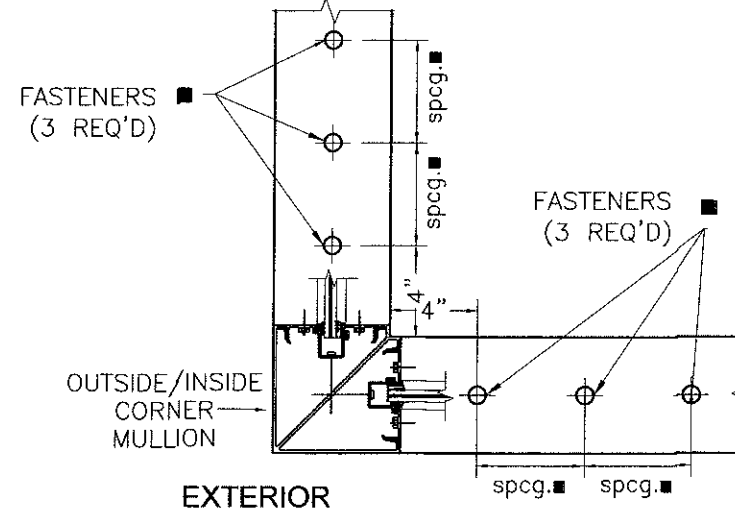


SCHEMATIC CONCRETE & 12 GAGE STEEL
CONNECTION DETAIL *
(AT STANDARD MULLION)



SCHEMATIC GROUT-FILLED CONCRETE BLOCK
CONNECTION DETAIL *
(AT STANDARD MULLION)

SCHEMATIC CONCRETE & 12 GAGE STEEL
CONNECTION DETAIL *
(AT OUTSIDE/INSIDE CORNER MULLION)



SCHEMATIC GROUT-FILLED CONCRETE BLOCK
CONNECTION DETAIL *
(AT OUTSIDE/INSIDE CORNER MULLION)

* SEE CONNECTION DETAILS ON SHEETS 9, 10 & 22.

FASTENERS TYPES AND SUBSTRATES REQUIREMENTS W/ INDICATED MIN. E.D. & SPACING (spcg.), BEYOND ANY FINISH MATERIAL

F - 3/8"Ø HILTI KWIK BOLT TZ ANCHOR W/ 2" Min. EMBEDMENT INTO 6" Min. THICK POURED CONCRETE (Min. f_c = 3 ksi). W/ 2 3/4" MIN. EDGE DISTANCE & 4" MIN. SPACING, BEYOND ANY FINISH MATERIAL.

G - 3/8"Ø POWER FASTENERS TAPPER ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO POURED CONCRETE (Min. f_c = 3 ksi). W/ 2 3/4" MIN. EDGE DISTANCE & 4 1/2" MIN. SPACING, BEYOND ANY FINISH MATERIAL.

H - 3/8"Ø HILTI HUS-H SCREW ANCHOR W/ 2" Min. EMBEDMENT INTO POURED CONCRETE (Min. f_c = 3 ksi). W/ 2 3/4" MIN. EDGE DISTANCE & 4" MIN. SPACING, BEYOND ANY FINISH MATERIAL.

G' - 3/8"Ø POWER FASTENERS TAPPER ANCHOR W/ 1 3/4" Min. EMBEDMENT INTO GROUT FILLED CONCRETE BLOCK. W/ 2 3/4" MIN. EDGE DISTANCE & 4 1/2" MIN. SPACING, BEYOND ANY FINISH MATERIAL.

H' - 3/8"Ø HILTI HUS-H SCREW ANCHOR W/ 2 3/4" Min. EMBEDMENT INTO GROUT FILLED CONCRETE BLOCK. W/ 2 3/4" MIN. EDGE DISTANCE & 8" MIN. SPACING, BEYOND ANY FINISH MATERIAL.

I - 3/8"Ø TYPE "F" BOLT OR 3/8"Ø -13 SAE GRADE 5 GALVANIZED STEEL HHB THRU BOLT W/ NUT & LOCK WASHER & 2" MIN. EDGE DISTANCE & 2" MIN. SPACING TO 12 GAGE (0.108" MIN THK.) Fy=33 ksi STEEL.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

DRAWN BY:
F.R.L.

DATE
06/24/16

DRAWING No
16-067

SHEET 8A OF 21

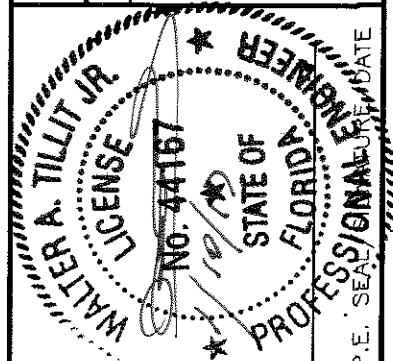
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Phone: (305) 871-1530 Fax: (305) 871-1531
e-mail: tilteco@aol.com

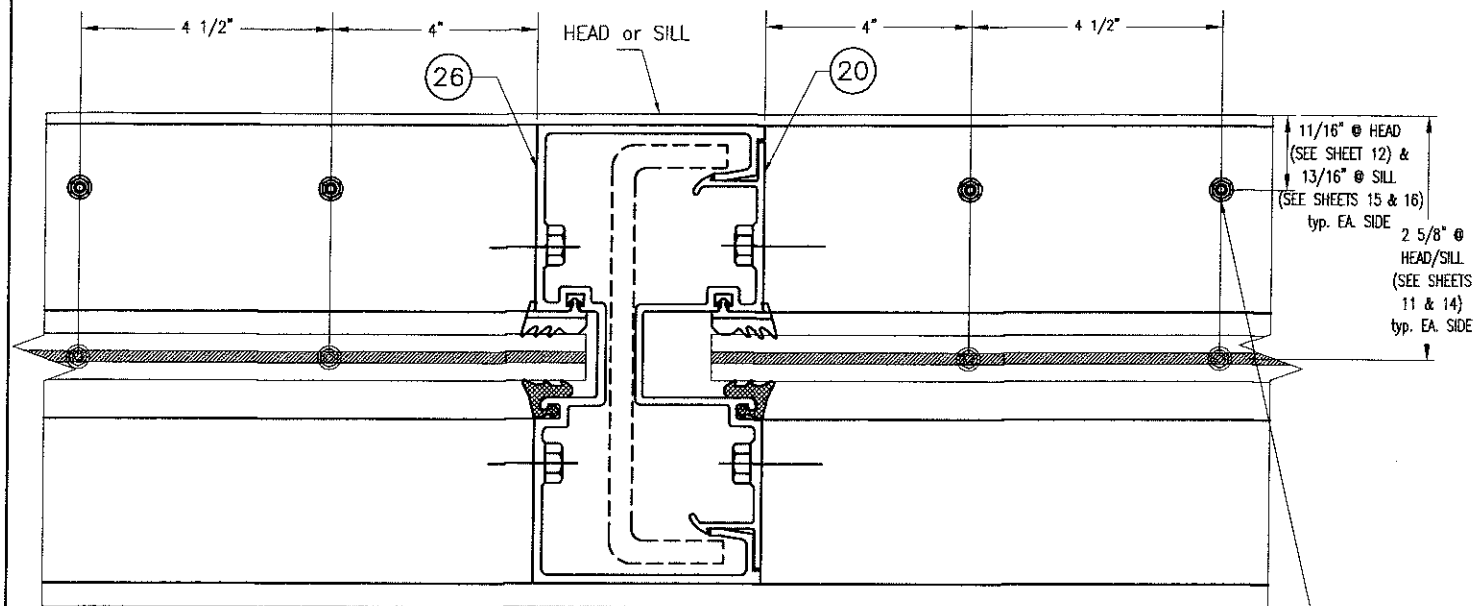
EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA, U.S. # 44167



Approved as complying with the
Florida Building Code
Date: Feb 9, 2017
NOA# 16-0802-04
Miami Dade Product Control
Manuel Jara

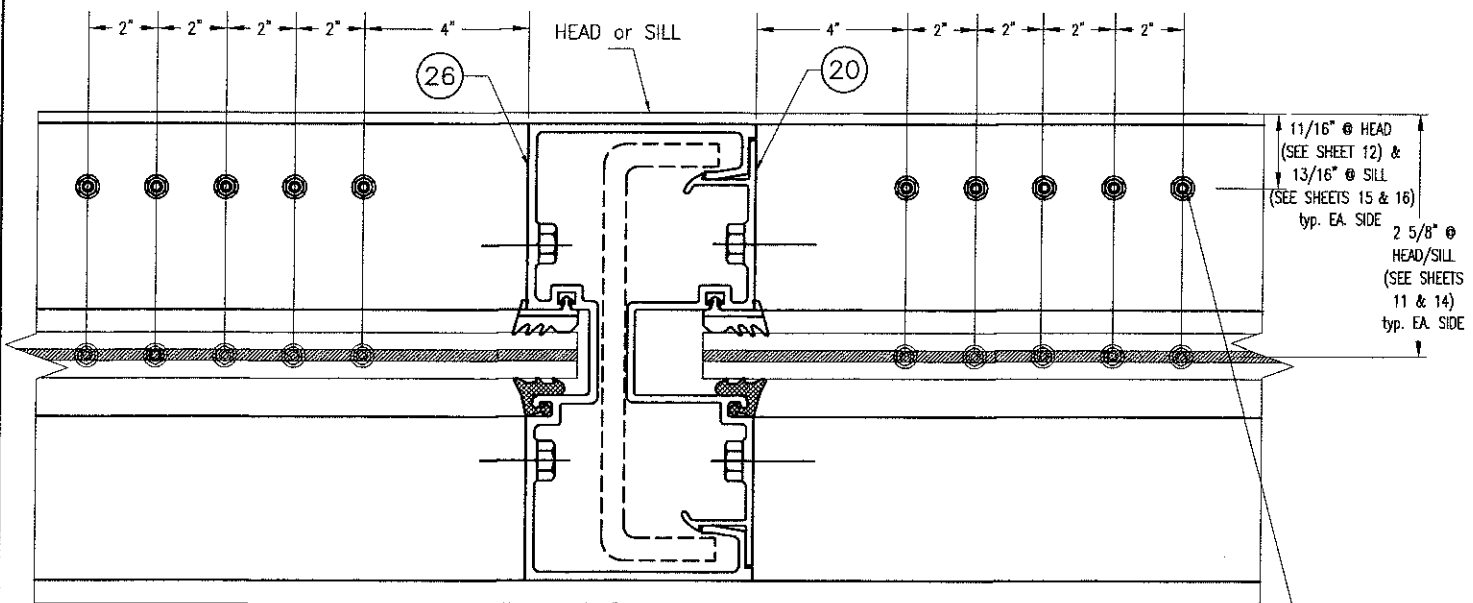
MIAMI-DADE COUNTY

SILL AND HEAD CONNECTION DETAILS FOR STANDARD MULLIONS AND JAMBS (PLAN VIEWS)



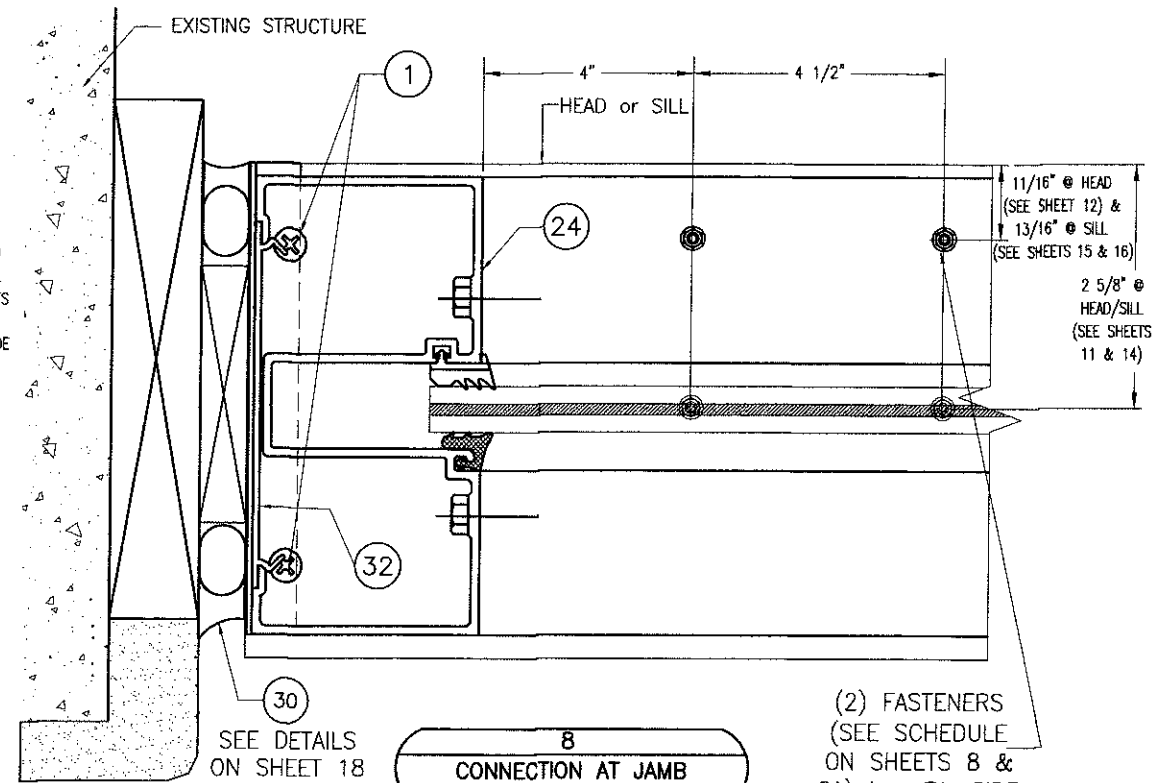
7
CONNECTION AT STANDARD
MULLION

CONNECTION DETAIL APPLICABLE TO POURED CONCRETE OR STEEL



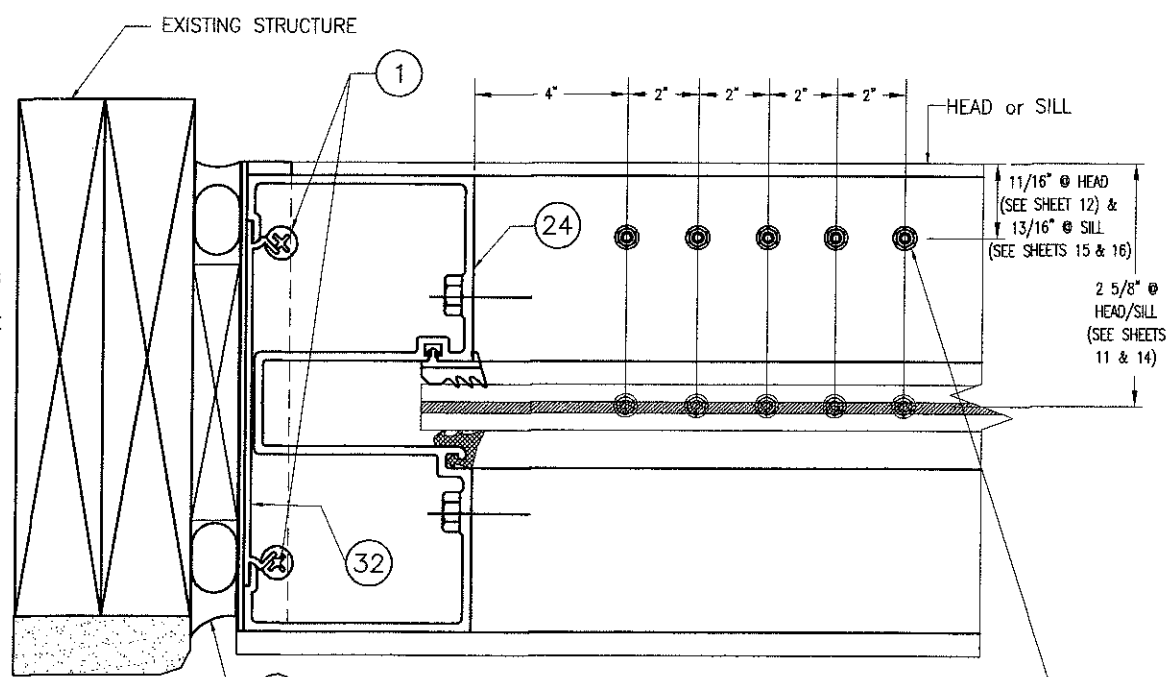
7A
CONNECTION AT STANDARD
MULLION

CONNECTION DETAIL APPLICABLE TO WOOD ONLY



8
CONNECTION AT JAMB
MULLION

CONNECTION DETAIL APPLICABLE TO POURED CONCRETE OR STEEL (SIMILAR)



8A
CONNECTION AT JAMB
MULLION

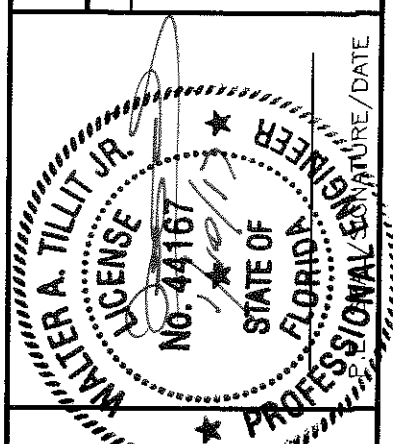
CONNECTION DETAIL APPLICABLE TO WOOD ONLY

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

SERIES FG-5000 FLUSH GLAZED
ALUMINUM WINDOW WALL SYSTEM
LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)

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TILIT TESTING & ENGINEERING COMPANY
6355 N.W. 38th St., Ste. 305, Virginia Gardens, FL 33166
Phone : (305) 871-1530 Fax : (305) 871-1531
e-mail: tiltco@aol.com
EG-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

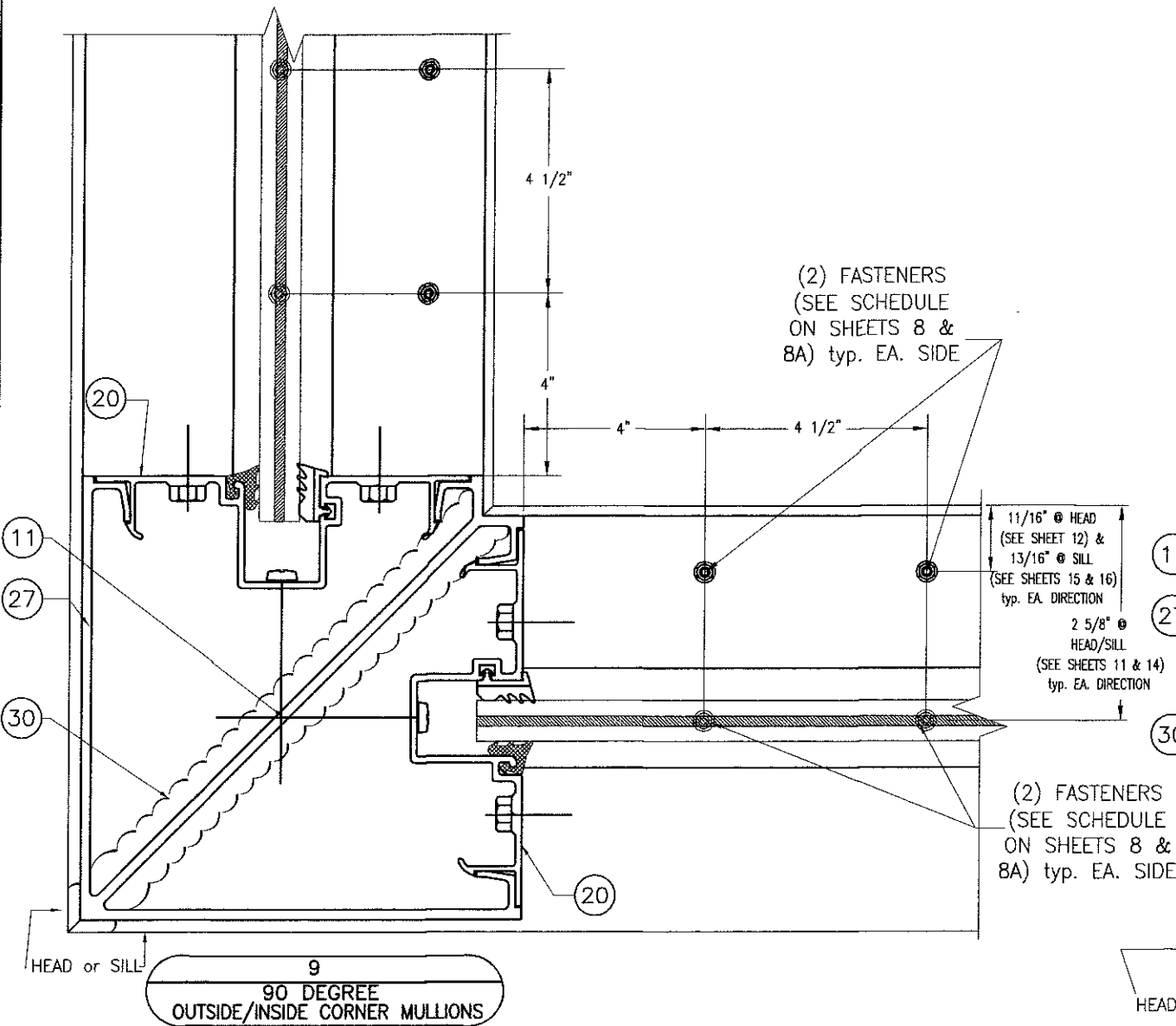


Approved as complying with the
Florida Building Code
Date Feb. 9, 2017
VOAB 16-0802-04
Miami Dade Product Control
Manuel Perez

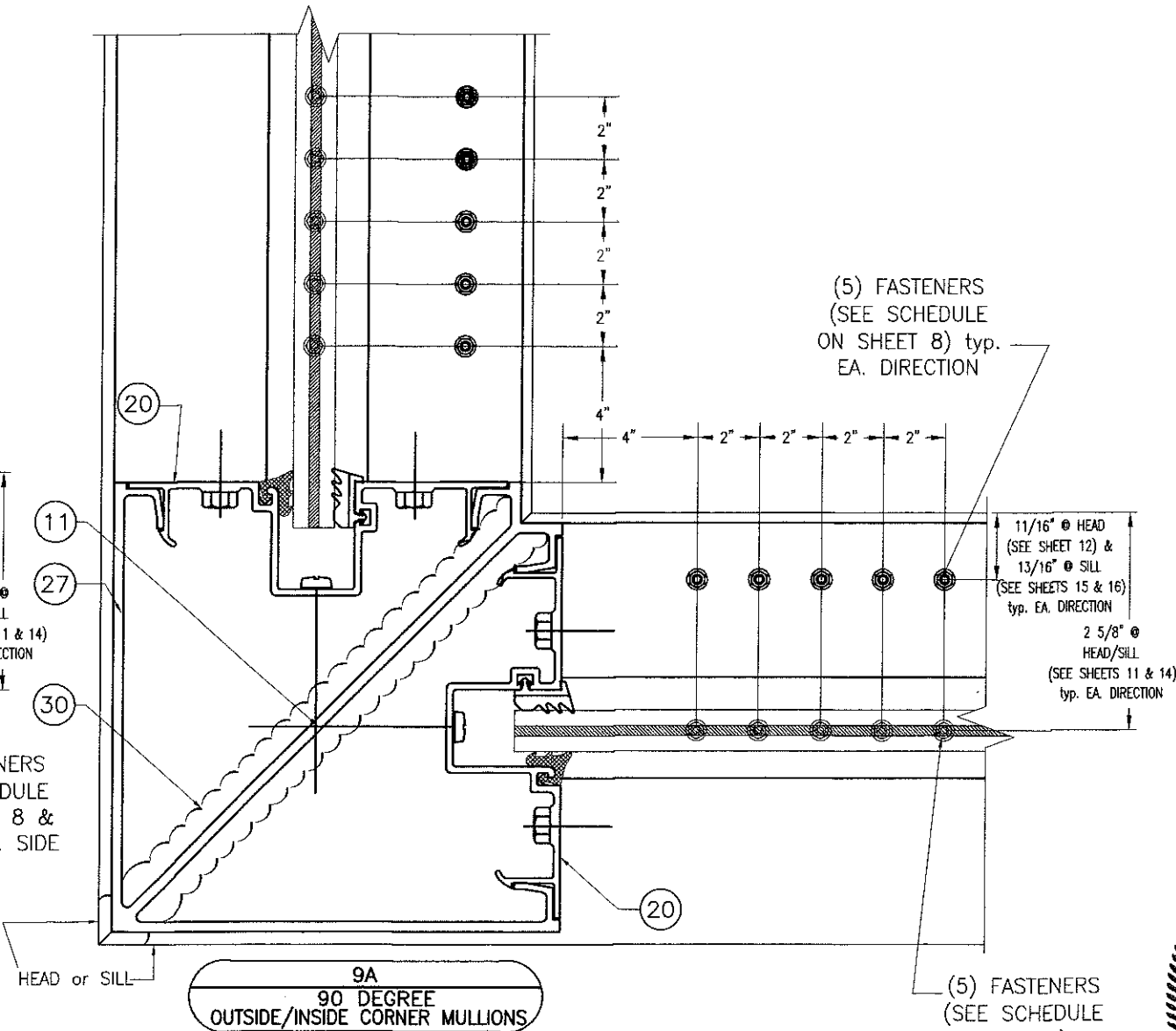
MIAMI - DADE COUNTY

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F.R.L.
06/24/16
DATE
16-067
DRAWING No
SHEET 9 OF 21

SILL AND HEAD CONNECTION DETAILS FOR CORNER MULLIONS (PLAN VIEWS)



CONNECTION DETAIL APPLICABLE TO POURED CONCRETE, GROUT FILLED CONCRETE BLOCK OR STEEL

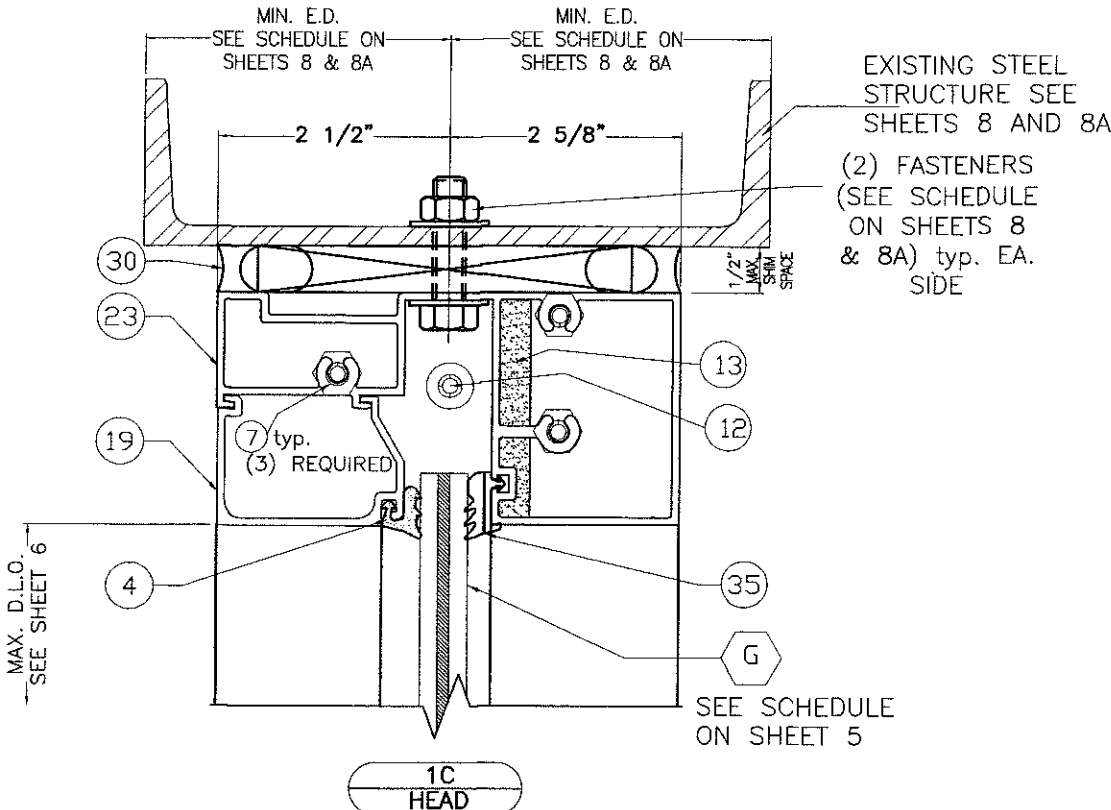
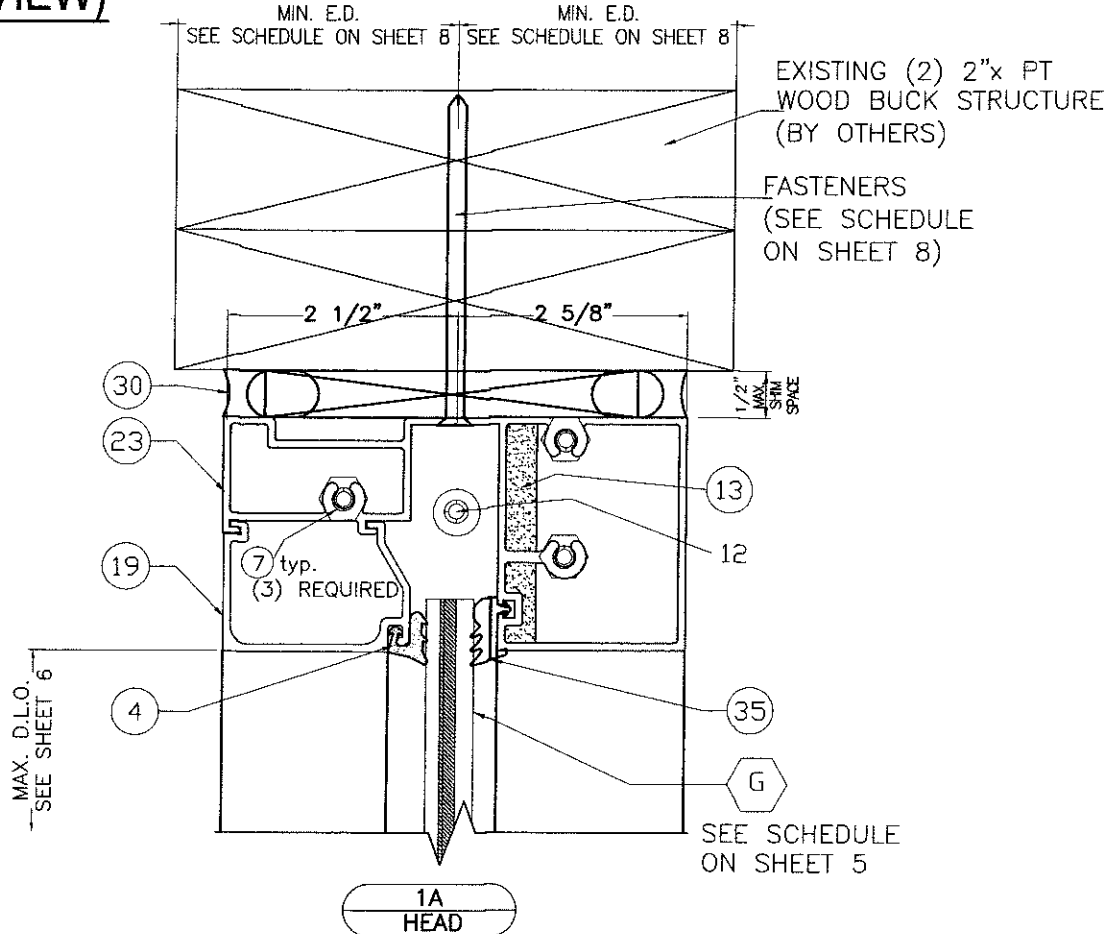
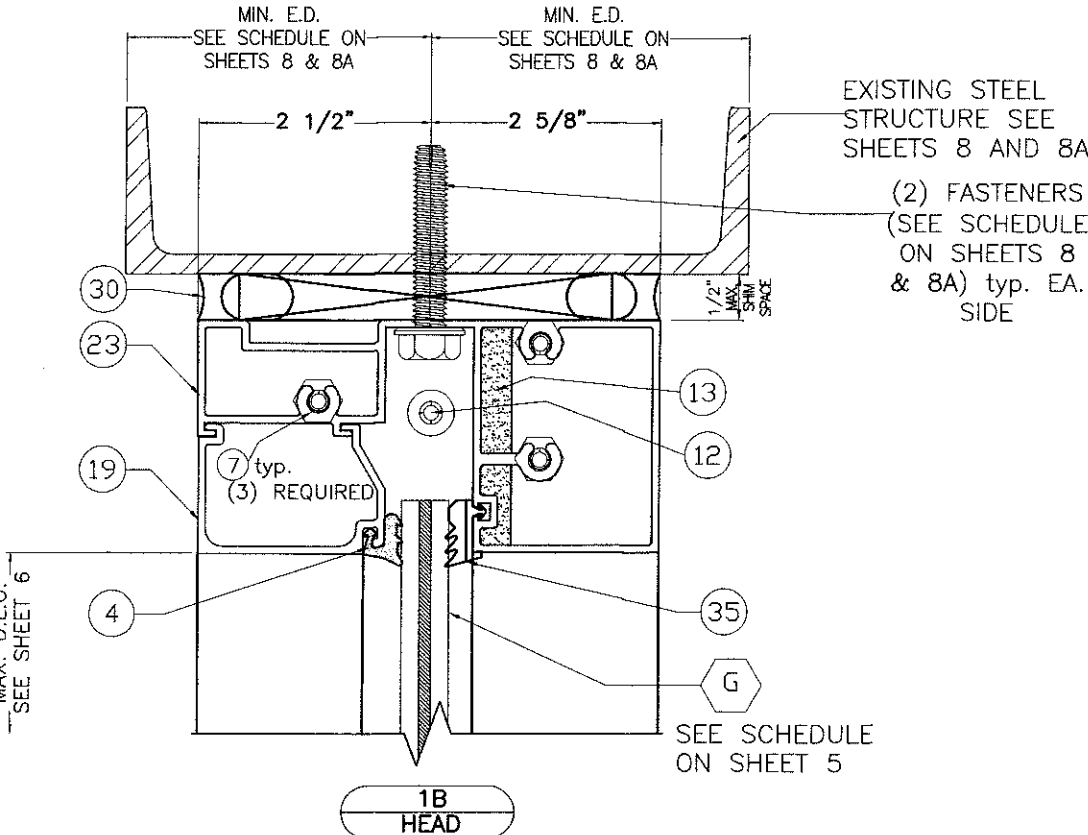
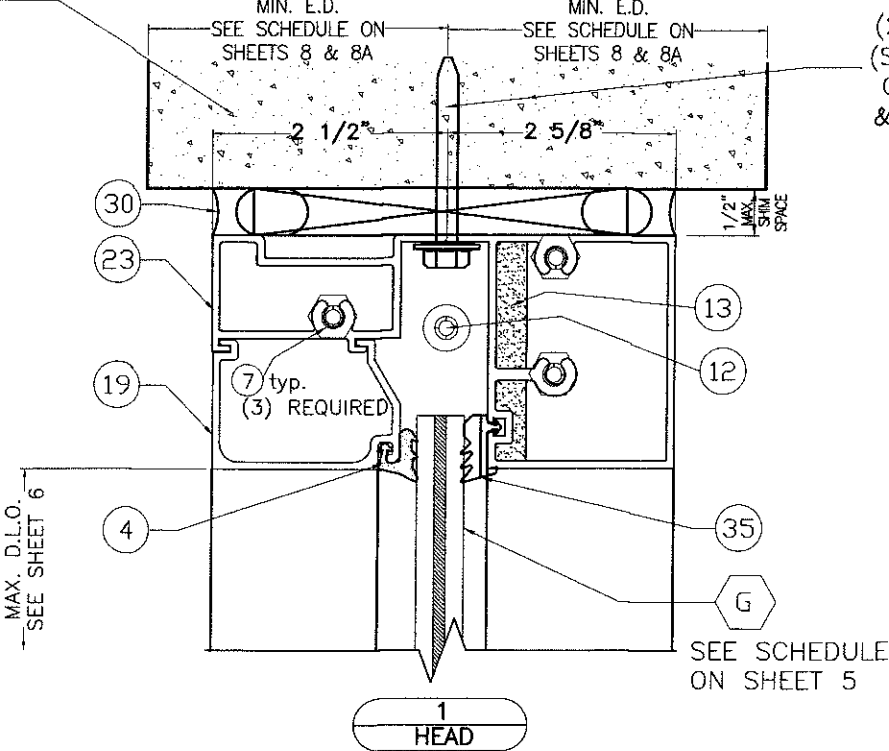


CONNECTION DETAIL APPLICABLE TO WOOD ONLY

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)		DRAWN BY: F.R.L.		06/24/16 DATE	
SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)		oldcastle BuildingEnvelope™ 803 Airport Rd - Terrell, TX 75160 www.OldcastleBE.com - Phone 800-869-4567		16-067 DRAWING NO	
TILTECO inc. TILIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St. Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 Fax : (305)871-1531 e-mail: tilteco@aol.com EB-0006719 WALTER A. TILIT JR., P.E. FLORIDA Lic. # 44167		REV. NO. 1 DATE 1 DESCRIPTION 1		REV. NO. 2 DATE 2 DESCRIPTION 2	
WALTER A. TILIT JR. LICENSE NO. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER P.E. SEAL, SIGNATURE/DATE		Approved as complying with the Florida Building Code Date Feb. 9, 2017 NOA# 16-0202-04 Miami Date Product Control Manuel Perez		MIAMI-DADE COUNTY	

HEAD CONNECTION DETAILS (SIDE VIEW)

EXISTING POURED
CONCRETE OR GROUT
FILLED CONCRETE BLOCK
STRUCTURE (BY OTHERS)
SEE SHEETS 8 & 8A



FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

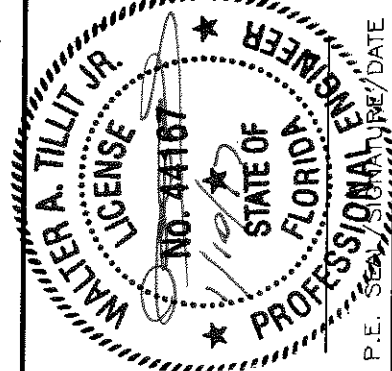
SERIES FG-5000 FLUSH GLAZED
ALUMINUM WINDOW WALL SYSTEM
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2			4		

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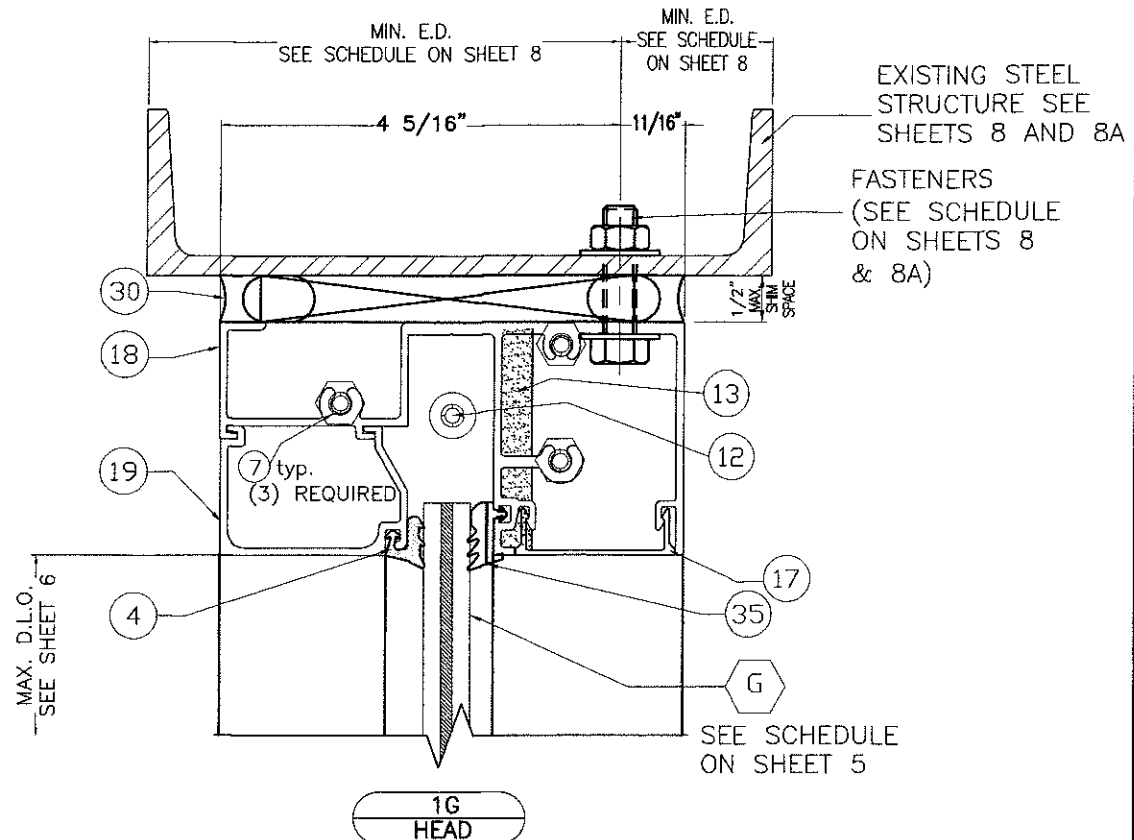
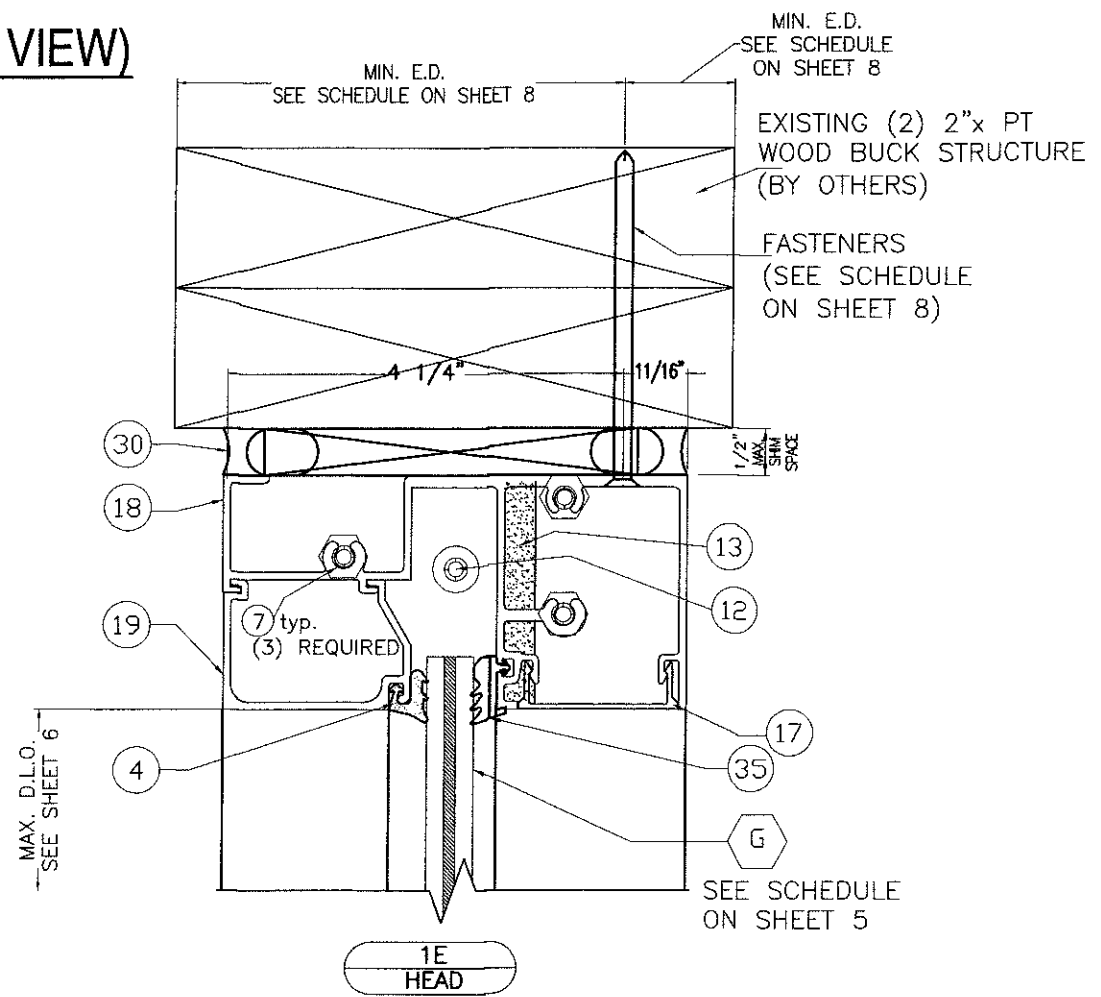
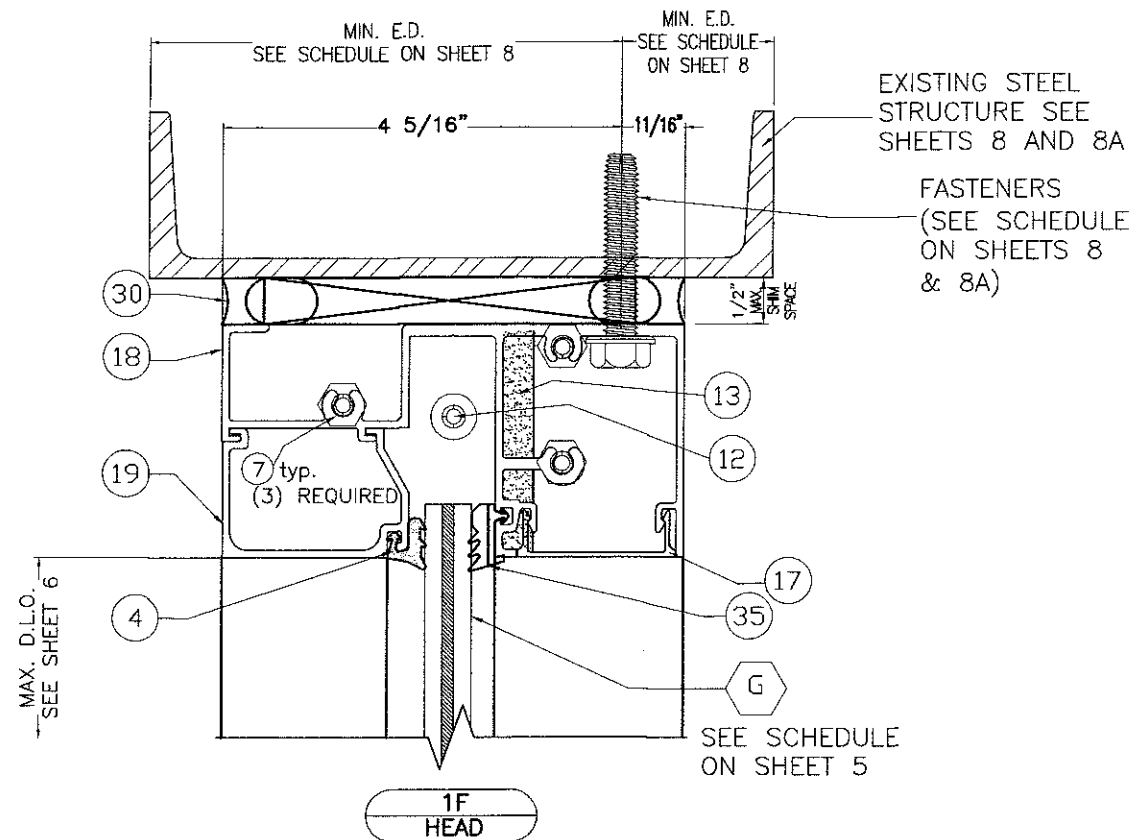
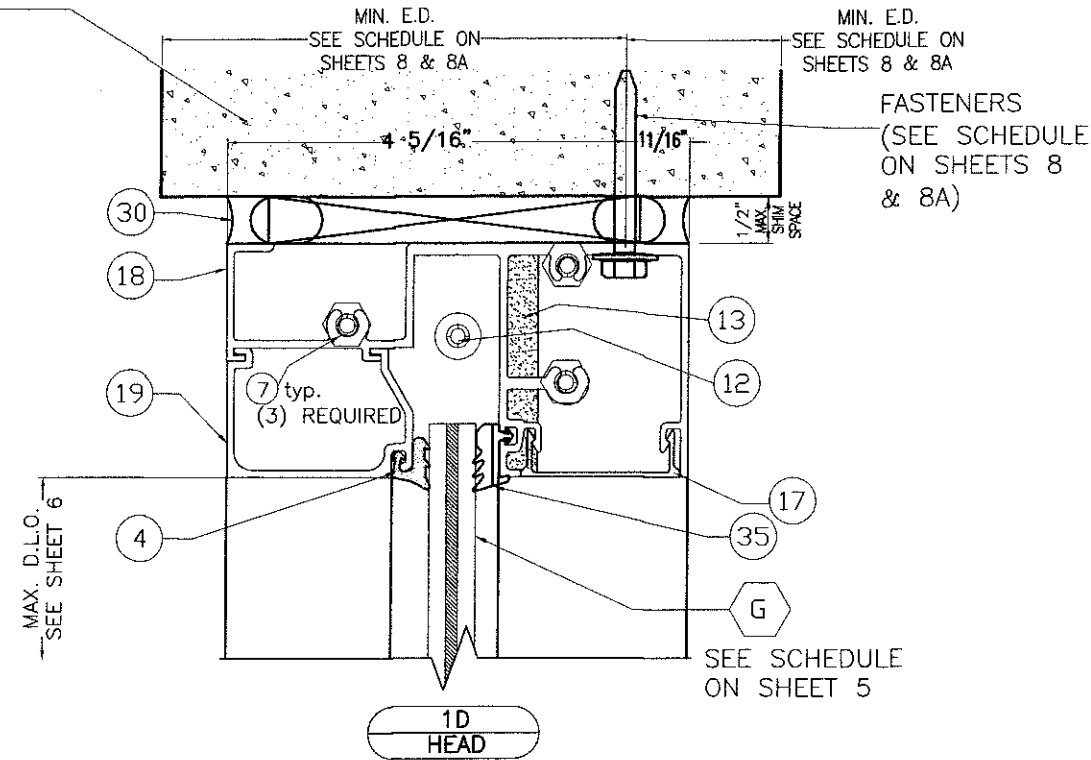
TILTECO INC.
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Miami Dade Product Control
Manuel Perez
MIAMI - DADE COUNTY

HEAD CONNECTION DETAILS (SIDE VIEW) (Continued)

EXISTING POURED
CONCRETE OR GROUT
FILLED CONCRETE BLOCK
STRUCTURE (BY OTHERS)
SEE SHEETS 8 & 8A



FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

SERIES FG-5000 FLUSH GLAZED
ALUMINUM WINDOW WALL SYSTEM
LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)

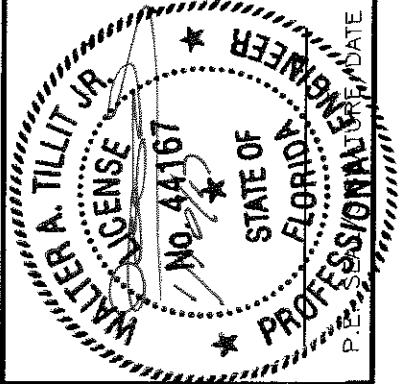
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Miami Dade Product Control
Manuel Perez

MIAMI - DADE COUNTY

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F.R.L.

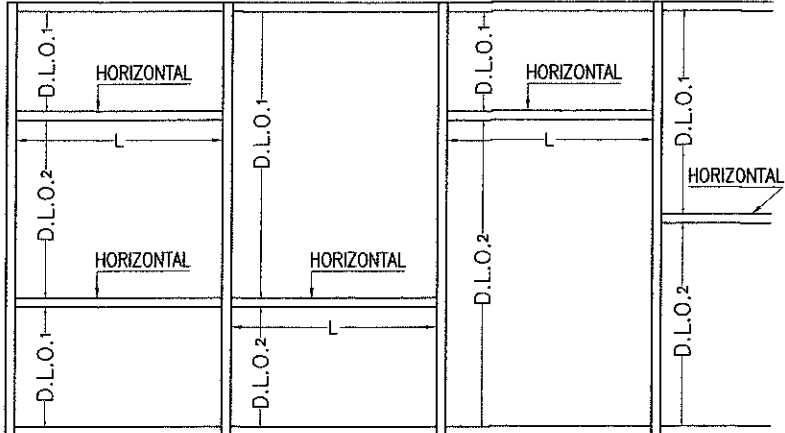
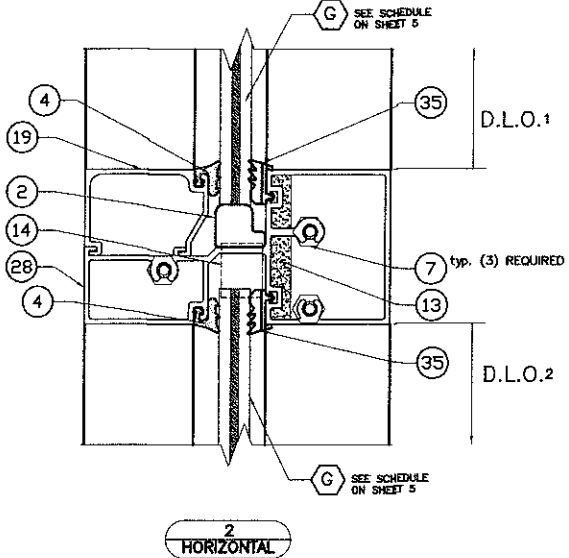
06/24/16
DATE

16-067
DRAWING No

SHEET 12 OF 21

MAXIMUM A.S.D. DESIGN PRESSURE RATING FOR HORIZONTAL
MAXIMUM HORIZONTAL SPAN "L" (ft) SCHEDULE
FOR A GIVEN A.S.D. DESIGN PRESSURE RATING (psf) AND
A GIVEN HORIZONTAL EFFECTIVE DAY LIGHT OPENING "D.L.O." (ft-in)

HORIZONTAL CONNECTION DETAIL
(SIDE VIEW)

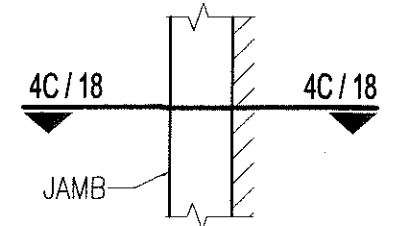


WINDOW WALL ELEVATION W/ HORIZONTAL

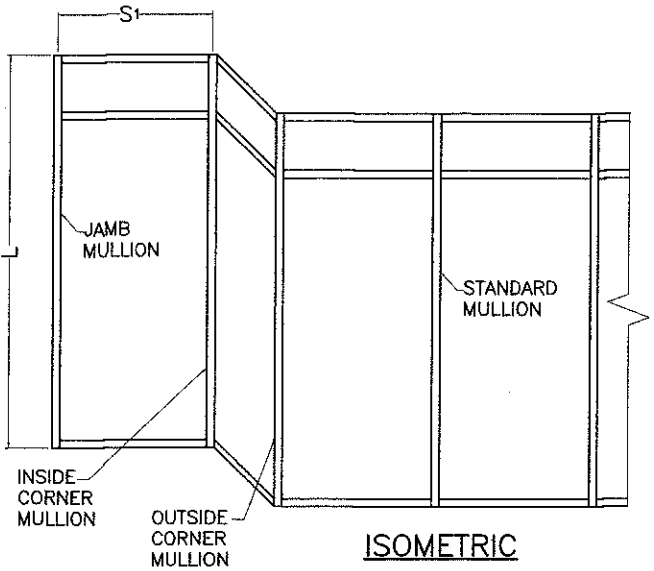
"L" = MAXIMUM HORIZONTAL SPAN
"D.L.O." = EFFECTIVE DAY LIGHT OPENING = $\frac{D.L.O.1 + D.L.O.2}{2}$
FOR HORIZONTAL

MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)	EFFECTIVE DAY LIGHT OPENING "DLO" (ft-in)	MAXIMUM HORIZONTAL SPAN "L" (ft)
± 60.0 OR LESS	2' - 0"	8' - 0"
	2' - 6"	8' - 0"
	3' - 0"	8' - 0"
	3' - 6"	8' - 0"
	4' - 0"	7' - 5"
	4' - 6"	6' - 7"
± 65.0	5' - 0"	5' - 11"
	2' - 0"	8' - 0"
	2' - 6"	8' - 0"
	3' - 0"	8' - 0"
	3' - 6"	7' - 10"
	4' - 0"	6' - 10"
± 70.0	4' - 6"	6' - 1"
	5' - 0"	5' - 5"
	2' - 0"	8' - 0"
	2' - 6"	8' - 0"
	3' - 0"	8' - 0"
	3' - 6"	7' - 3"
± 75.0	4' - 0"	6' - 4"
	4' - 6"	5' - 8"
	5' - 0"	5' - 1"
	2' - 0"	8' - 0"
	2' - 6"	8' - 0"
	3' - 0"	7' - 11"
± 80.0	3' - 6"	6' - 9"
	4' - 0"	5' - 11"
	4' - 6"	5' - 3"
	5' - 0"	4' - 9"
	2' - 0"	8' - 0"
	2' - 6"	8' - 0"

JAMB W/O ANCHORAGE
(ELEVATION)



▲ SPANS ONLY VALID FOR UP TO 80.0psf. ASD
NEGATIVE DESIGN LOAD. MAX. SPAN FOR POSITIVE
LOADS SHALL BE LIMITED BY 70.0psf ASD LOAD.



ISOMETRIC

L = JAMB SPAN
EFFECTIVE SPACING
(FOR FREESTANDING JAMB MULLION)
 $b = \frac{S_1}{2}$ (SEE SCHEDULE)
AT JAMB MULLION GLASS PANEL

MAXIMUM A.S.D. DESIGN PRESSURE RATING
FOR JAMBS W/O ANCHORAGE
MAXIMUM JAMB SPAN "L" (ft) SCHEDULE
FOR A GIVEN A.S.D. DESIGN PRESSURE RATING (psf)
AND A GIVEN JAMB EFFECTIVE SPACING "b" (ft-in)

MAXIMUM A.S.D. DESIGN PRESSURE RATING (psf)	EFFECTIVE SPACING "b" (ft-in)	JAMB W/O CONNECTION SPAN LF (ft-in)
60.0	1' - 0"	9' - 0"
	1' - 6"	9' - 0"
	2' - 0"	9' - 0"
	2' - 6"	9' - 0"
	3' - 0"	8' - 8"
	3' - 6"	8' - 4"
	4' - 0"	7' - 7"
	4' - 6"	7' - 3"
	5' - 0"	7' - 1"
	1' - 0"	9' - 0"
	1' - 6"	9' - 0"
	2' - 0"	9' - 0"
65.0	2' - 6"	8' - 8"
	3' - 0"	8' - 4"
	3' - 6"	7' - 7"
	4' - 0"	7' - 3"
	4' - 6"	6' - 10"
	5' - 0"	6' - 10"
	1' - 0"	9' - 0"
	1' - 6"	8' - 11"
	2' - 0"	8' - 11"
	2' - 6"	8' - 5"
	3' - 0"	7' - 11"
	3' - 6"	7' - 7"
70.0	4' - 0"	6' - 11"
	4' - 6"	6' - 11"
	5' - 0"	6' - 11"
	1' - 0"	9' - 0"
	1' - 6"	8' - 11"
	2' - 0"	8' - 11"
	2' - 6"	8' - 5"
	3' - 0"	7' - 11"
	3' - 6"	7' - 7"
	4' - 0"	6' - 11"
	4' - 6"	6' - 11"
	5' - 0"	6' - 11"
75.0	1' - 0"	9' - 0"
	1' - 6"	8' - 7"
	2' - 0"	8' - 2"
	2' - 6"	7' - 9"
	3' - 0"	7' - 5"
	3' - 6"	6' - 11"
	4' - 0"	6' - 8"
	4' - 6"	6' - 5"
	5' - 0"	6' - 4"
	1' - 0"	9' - 0"
	1' - 6"	8' - 10"
	2' - 0"	8' - 7"
76.0	2' - 3"	8' - 7"
	2' - 9"	7' - 9"
	3' - 3"	7' - 5"
	3' - 9"	6' - 10"
	4' - 3"	6' - 7"
	4' - 9"	6' - 5"
	5' - 3"	6' - 4"
	1' - 0"	9' - 0"
	1' - 6"	8' - 10"
	2' - 0"	8' - 4"
	2' - 6"	7' - 11"
	3' - 0"	7' - 6"
80.0	3' - 3"	6' - 11"
	3' - 9"	6' - 8"
	4' - 3"	6' - 5"
	4' - 9"	6' - 3"
	5' - 3"	6' - 2"
	1' - 0"	9' - 0"
	1' - 6"	8' - 10"
	2' - 0"	8' - 4"
	2' - 6"	7' - 11"
	3' - 0"	7' - 6"
	3' - 6"	6' - 11"
	4' - 0"	6' - 8"

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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e-mail: tilteco@aol.com
ER-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

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DATE: 06/24/16

16-067

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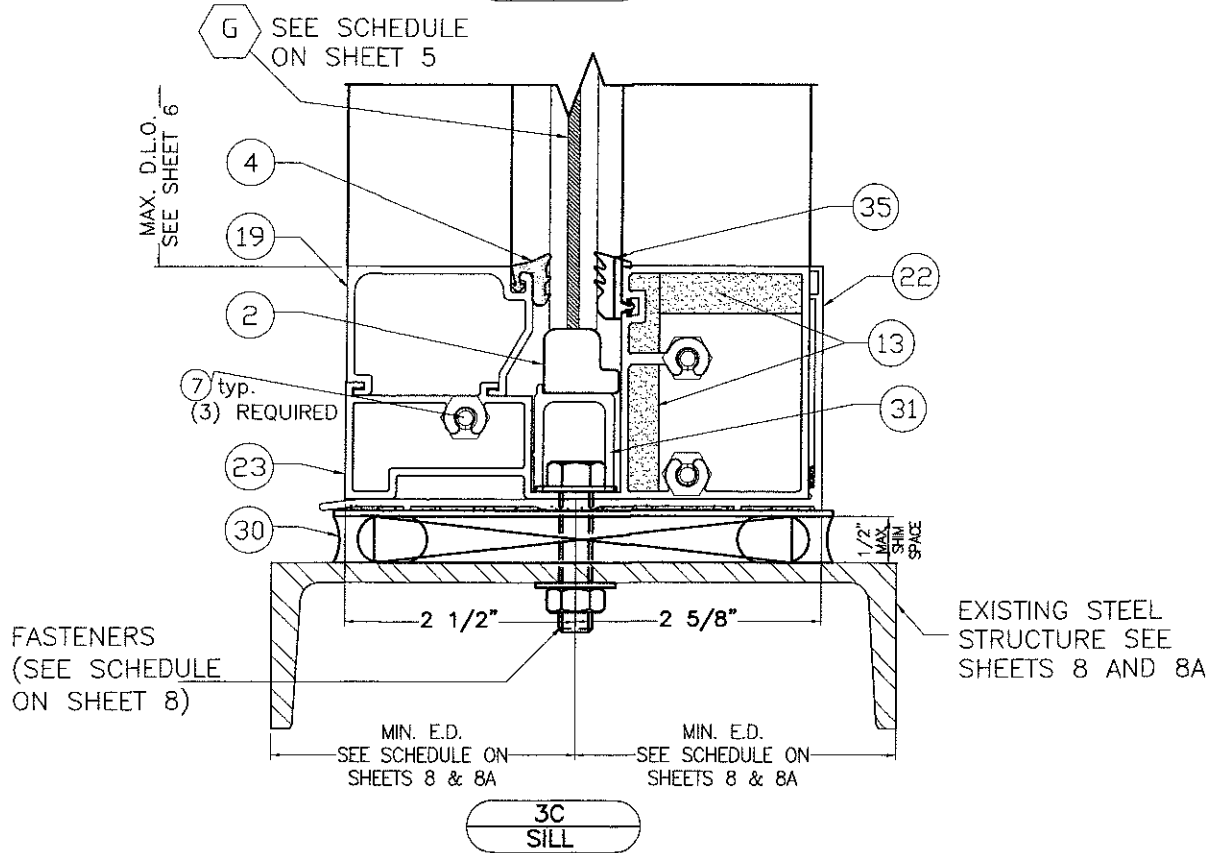
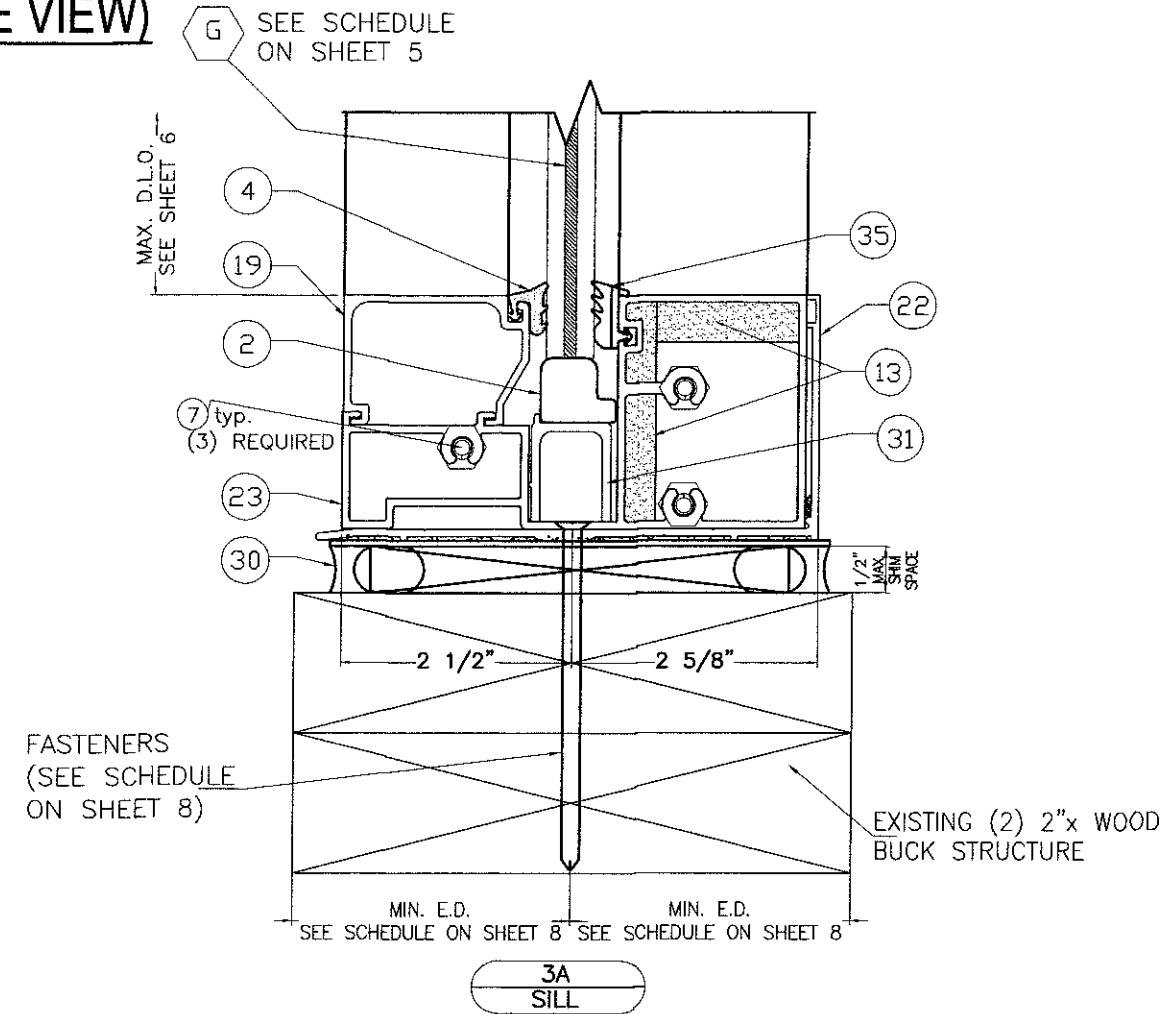
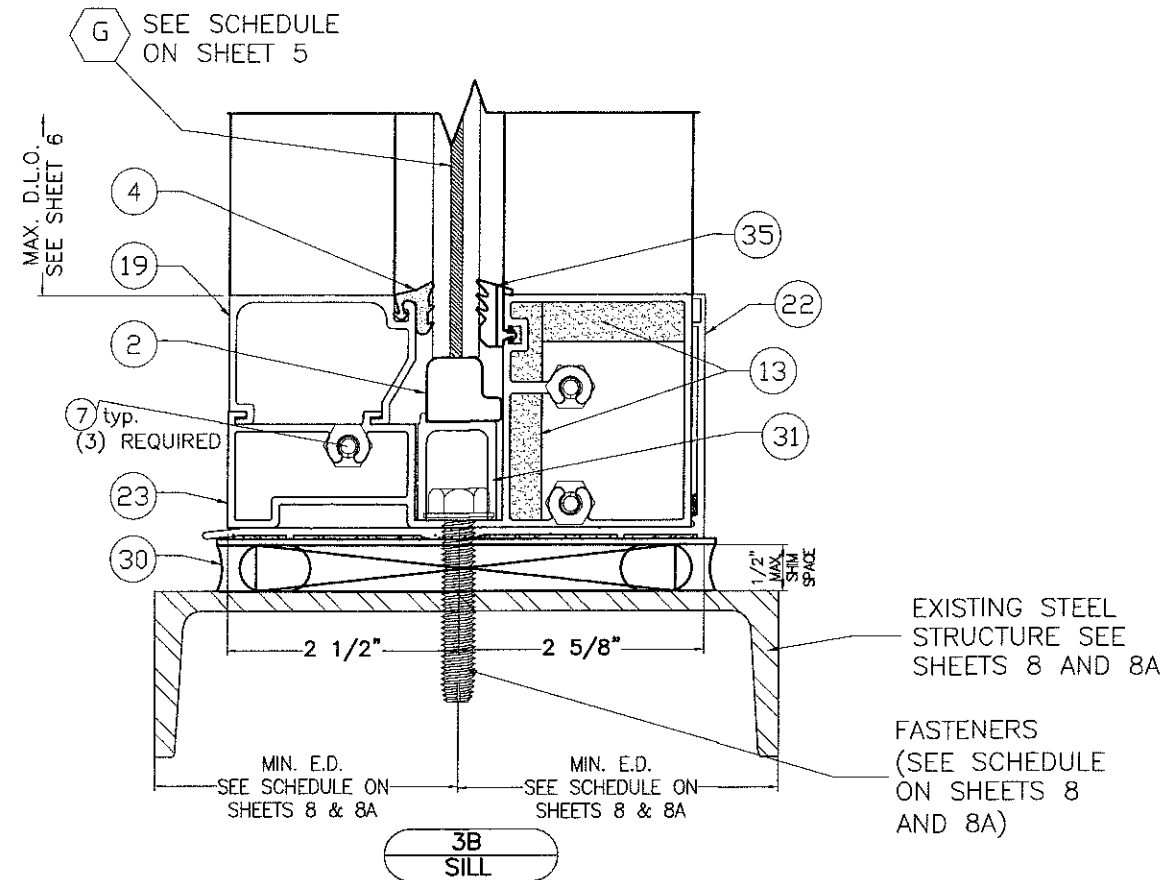
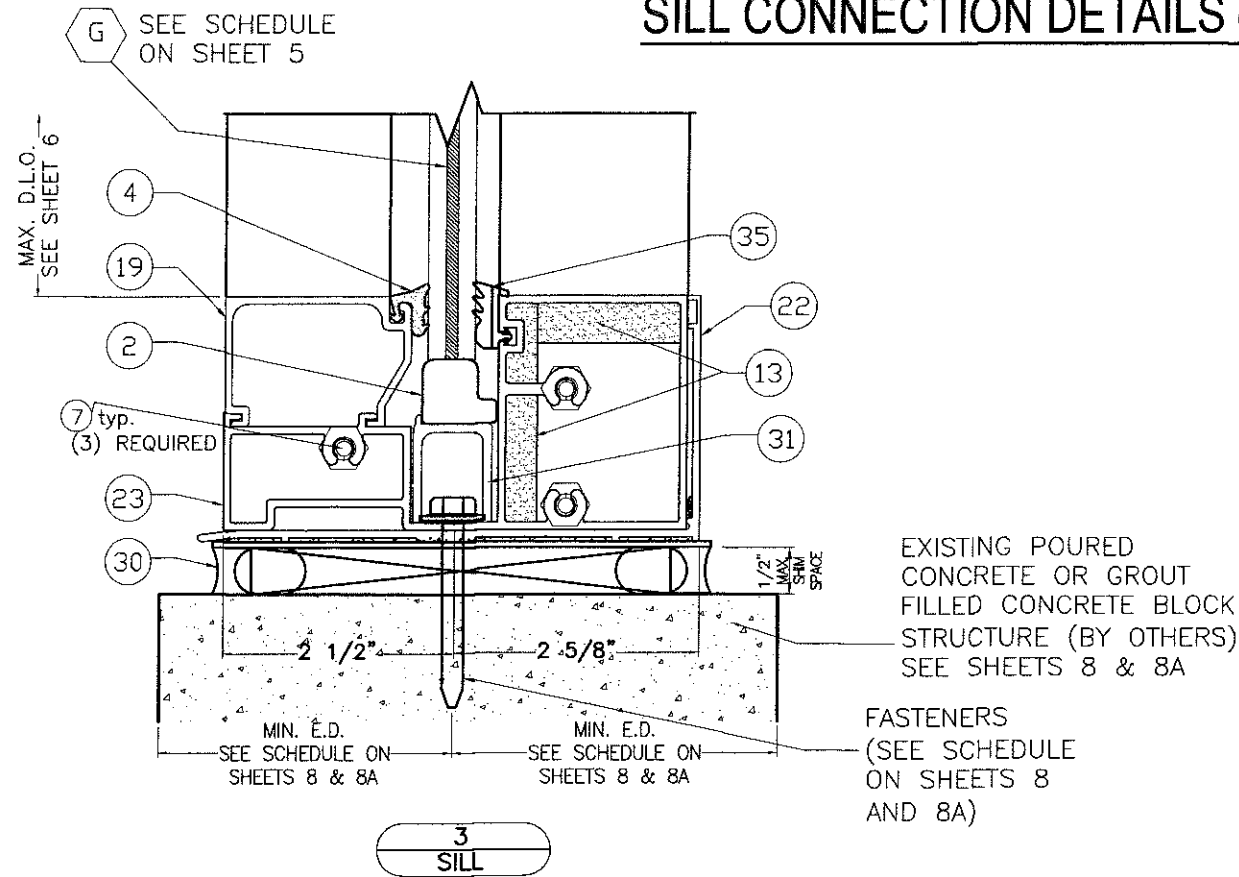
SHEET 13 OF 21

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Florida Building Code
Date: Feb. 9, 2017
NOA# 16-0602-04
Miami Dade Product Control

Manuel Perez

MIAMI-DADE COUNTY

SILL CONNECTION DETAILS (SIDE VIEW)



FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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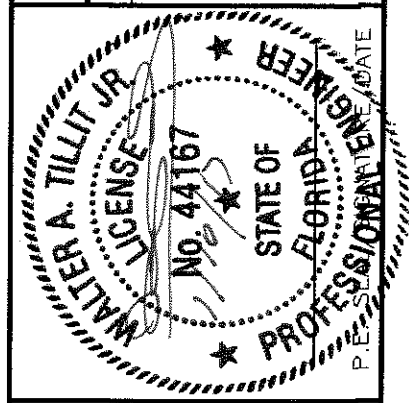
TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Suite 305, Virginia Gardens, FL 33166
Phone: (305) 871-1530 Fax: (305) 871-1531
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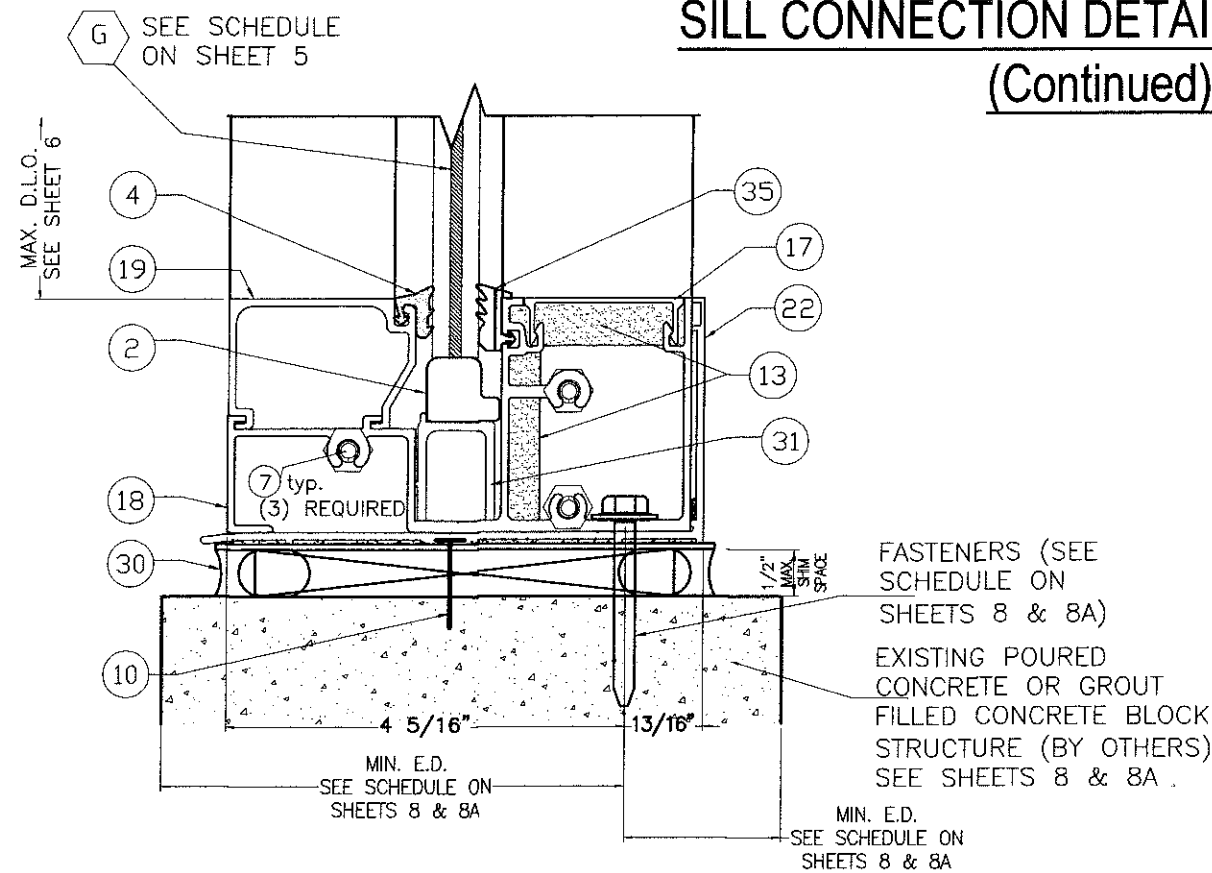
SHEET 14 OF 21



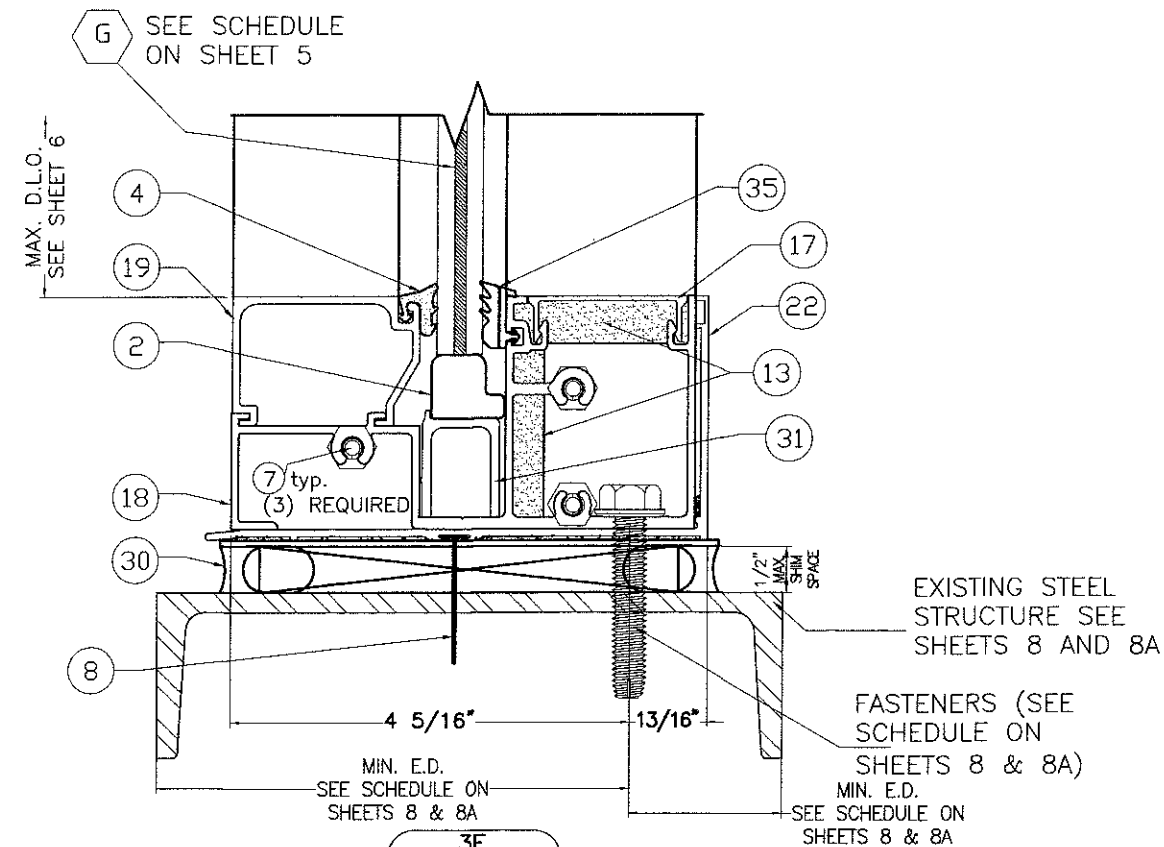
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Manuel J...

MIAMI-DADE COUNTY

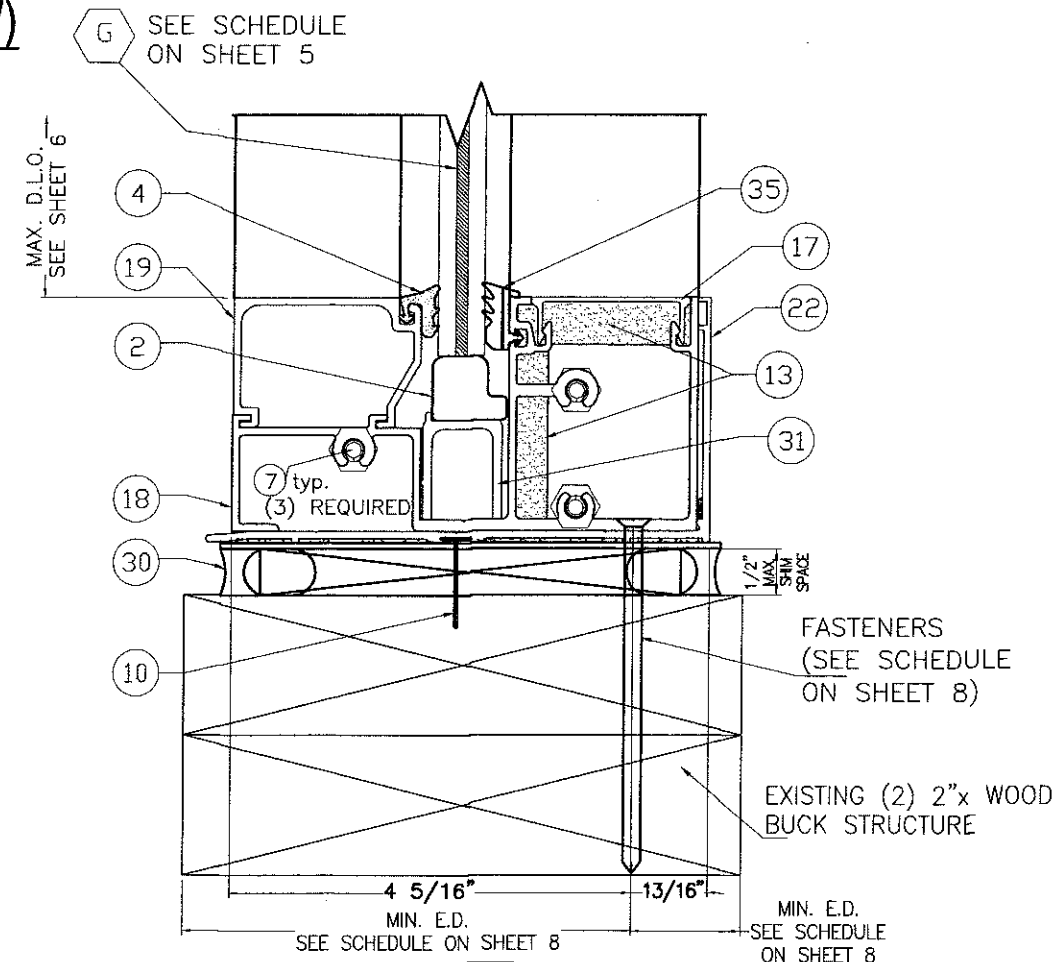
SILL CONNECTION DETAILS (SIDE VIEW) (Continued)



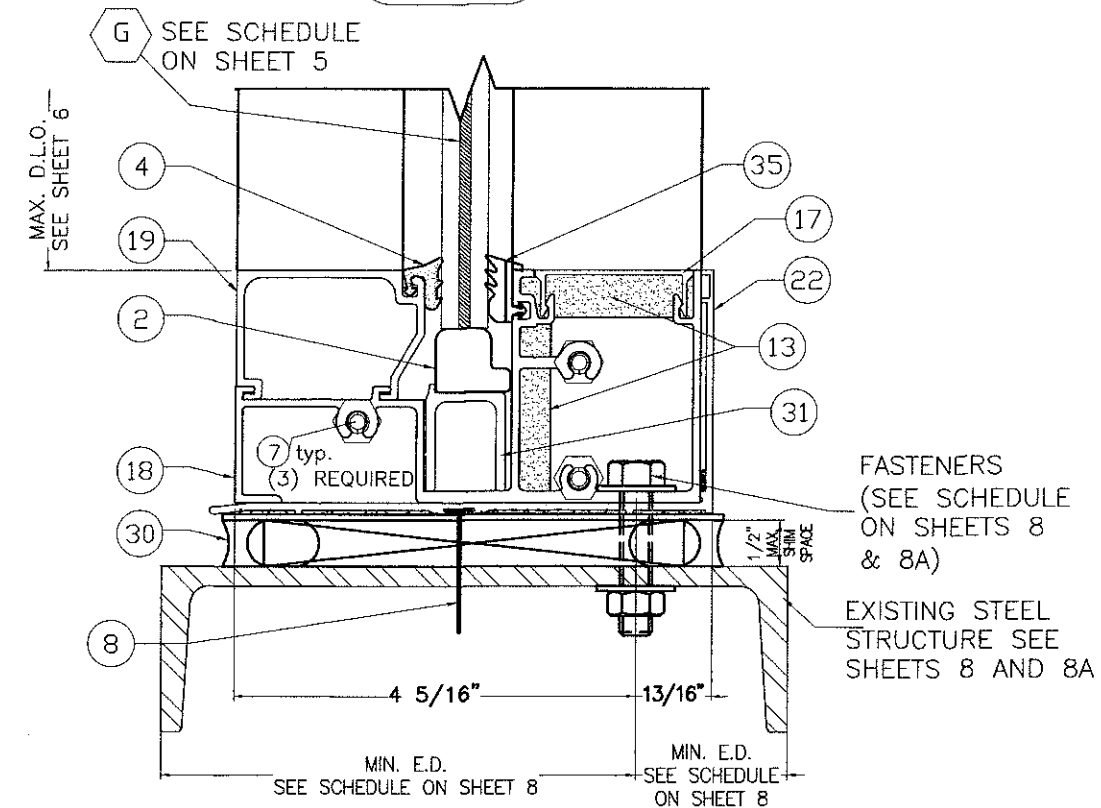
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3F
SILL



3E
SILL

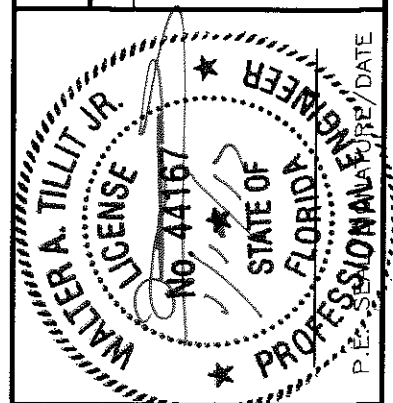


3G
SILL

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

SERIES FG-5000 FLUSH GLAZED
ALUMINUM WINDOW WALL SYSTEM
LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)

TILECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, Virginia Gardens, FL 33166
Phone: (305) 871-1530 Fax: (305) 871-1531
e-mail: tileco@aol.com
EB-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

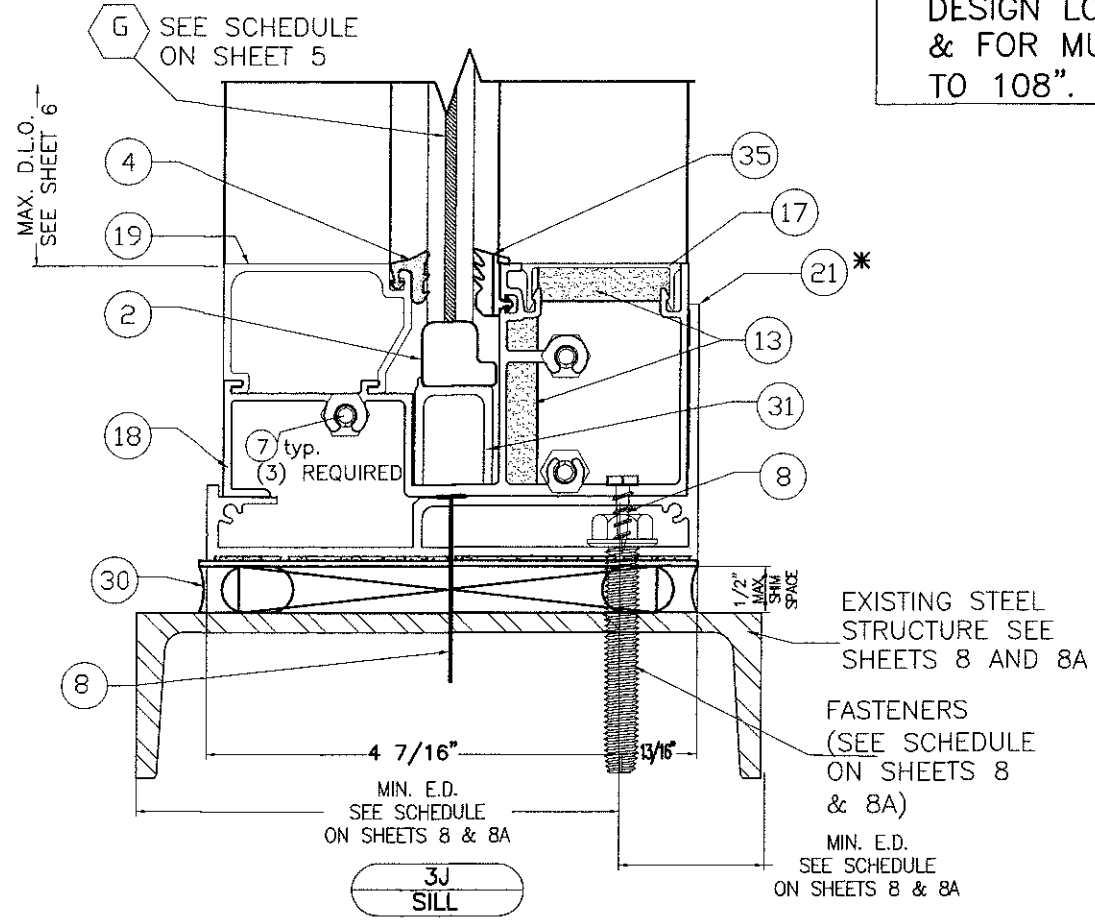
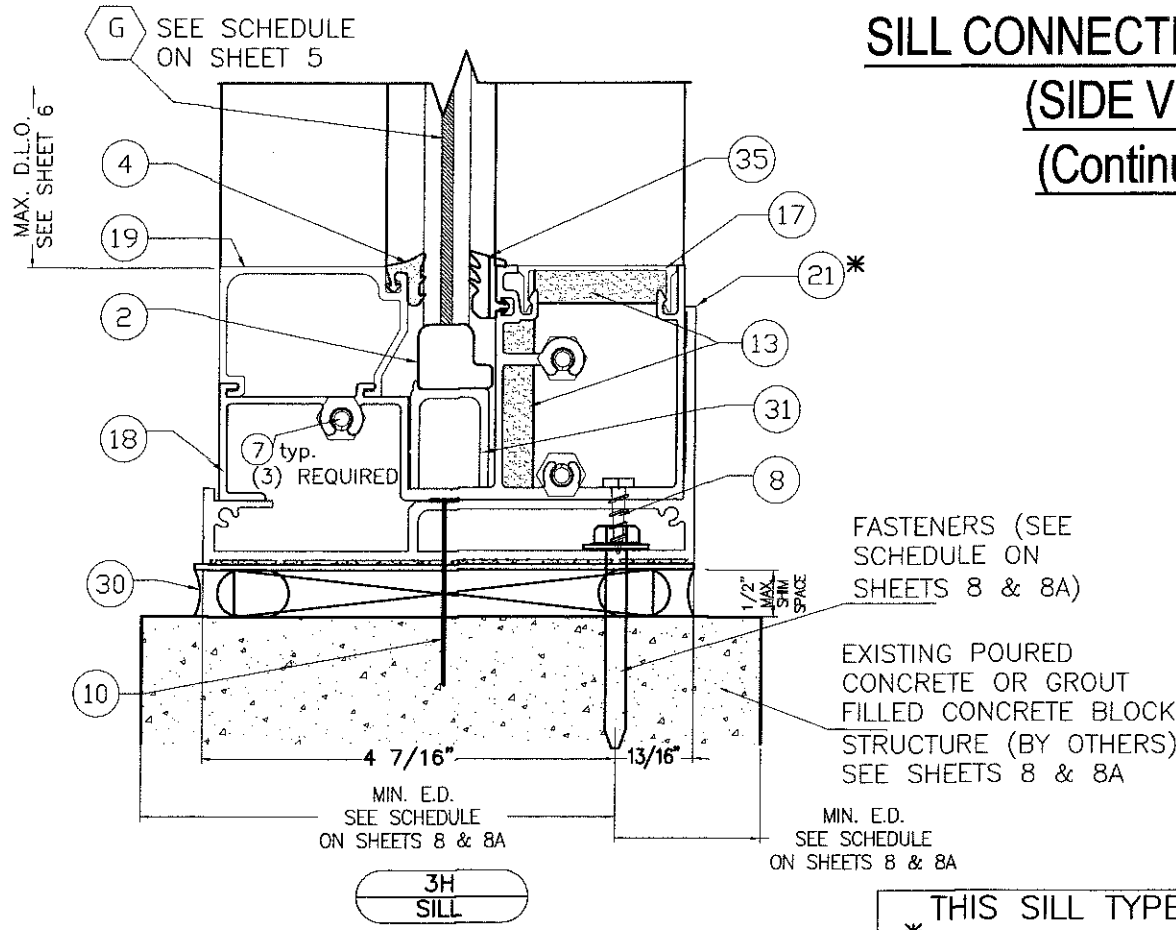


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Manuel Perez
MIAMI-DADE COUNTY

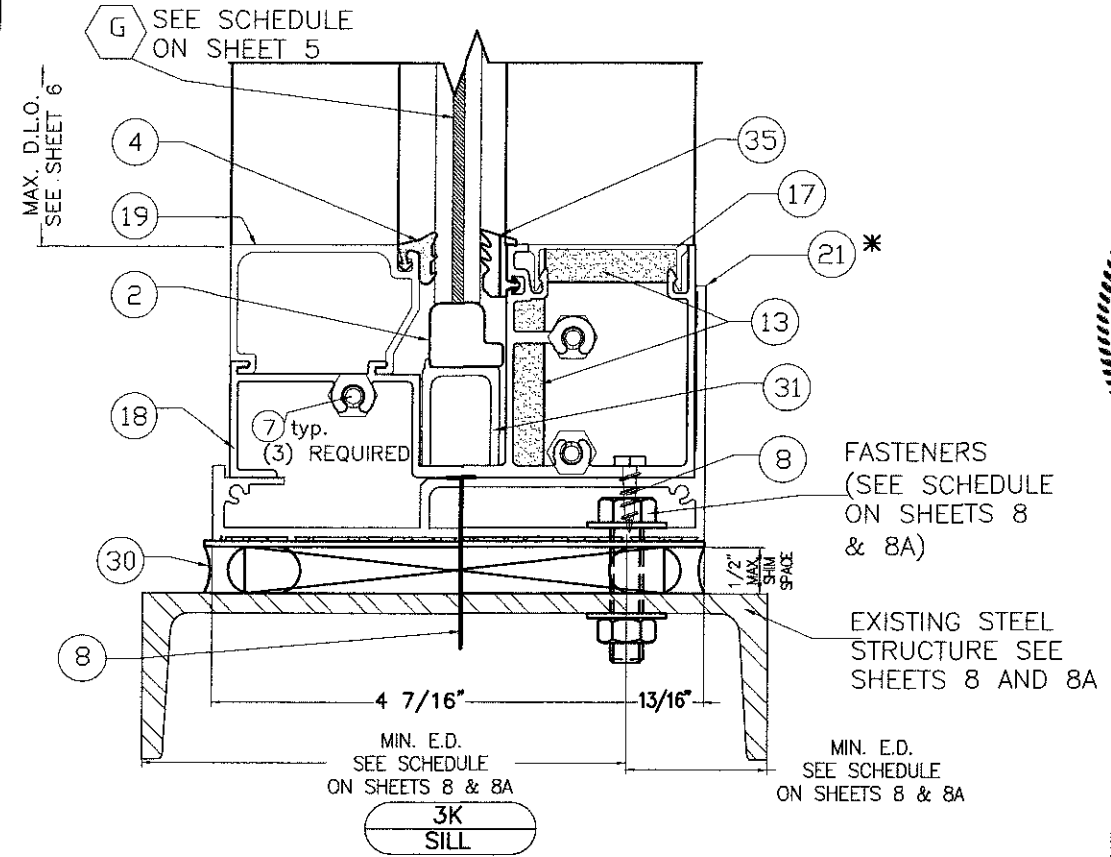
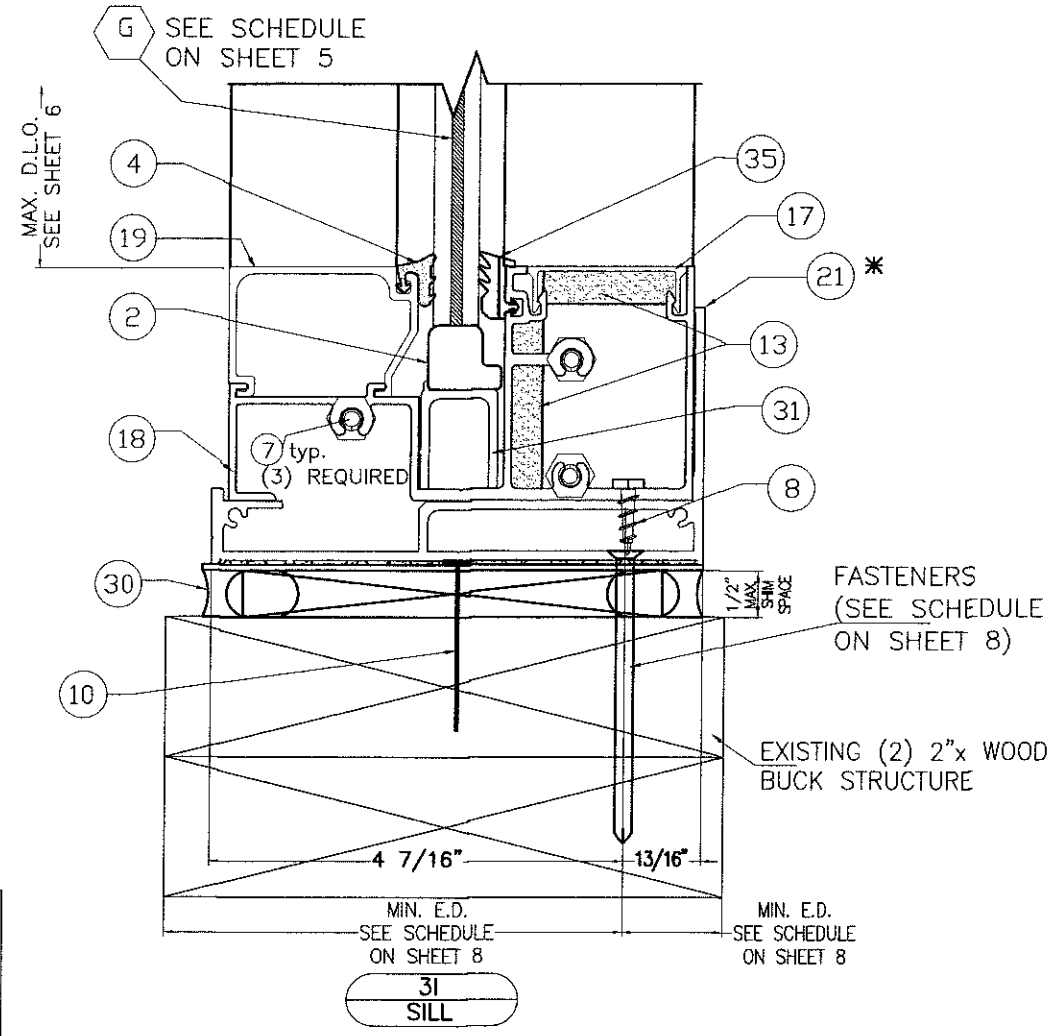
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SILL CONNECTION DETAILS
(SIDE VIEW)
(Continued)

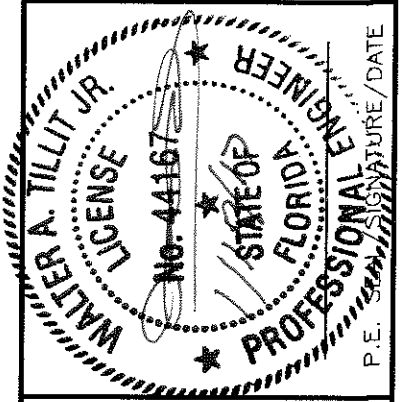


THIS SILL TYPE SHALL ONLY
*BE USED FOR MAX. A.S.D.
DESIGN LOADS UP TO 65 psf
& FOR MULLION HEIGHTS UP
TO 108".



FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

DRAWN BY: F.R.L.		06/24/18 DATE		16-067 DRAWING No		SHEET 15 OF 21	
SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)				oldcastle BuildingEnvelope™ 803 Airport Rd - Terrell, TX 75160 www.OldcastleBE.com - Phone 800-869-4567			
TILECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305) 871-1530 Fax: (305) 871-1531 e-mail: tileco@aol.com EB-0006719 WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167				REV. No. 1 DATE 1 DESCRIPTION 3 REV. No. 4 DATE 4 DESCRIPTION 4			

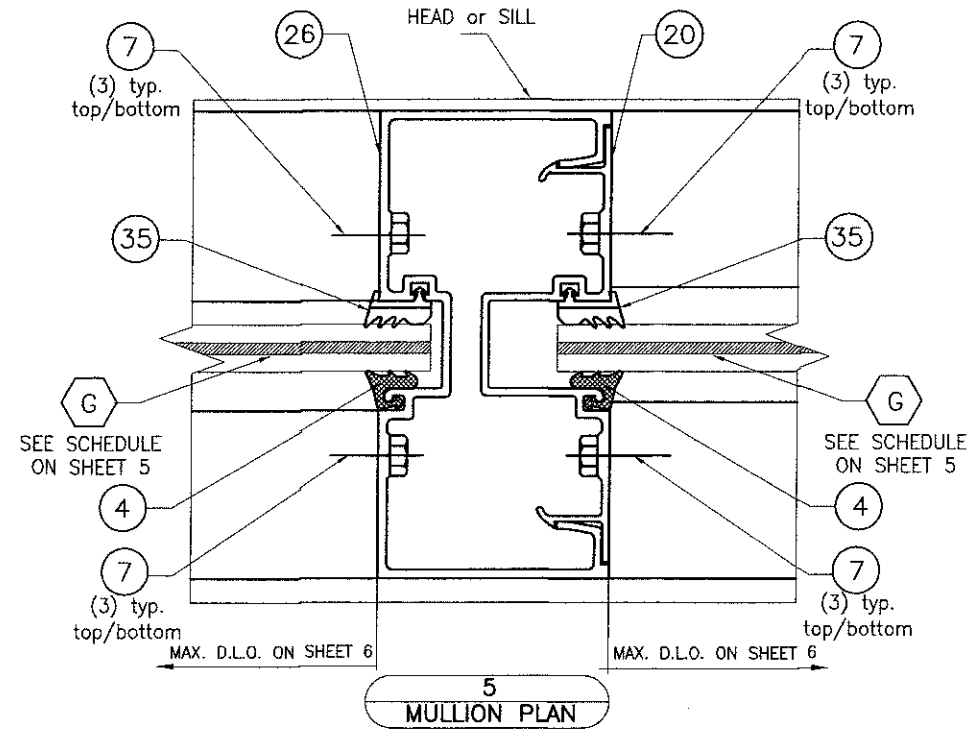


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Date Feb. 9, 2017
NOAH 16-0802-04
Miami Dade Product Control
Manuel Cruz

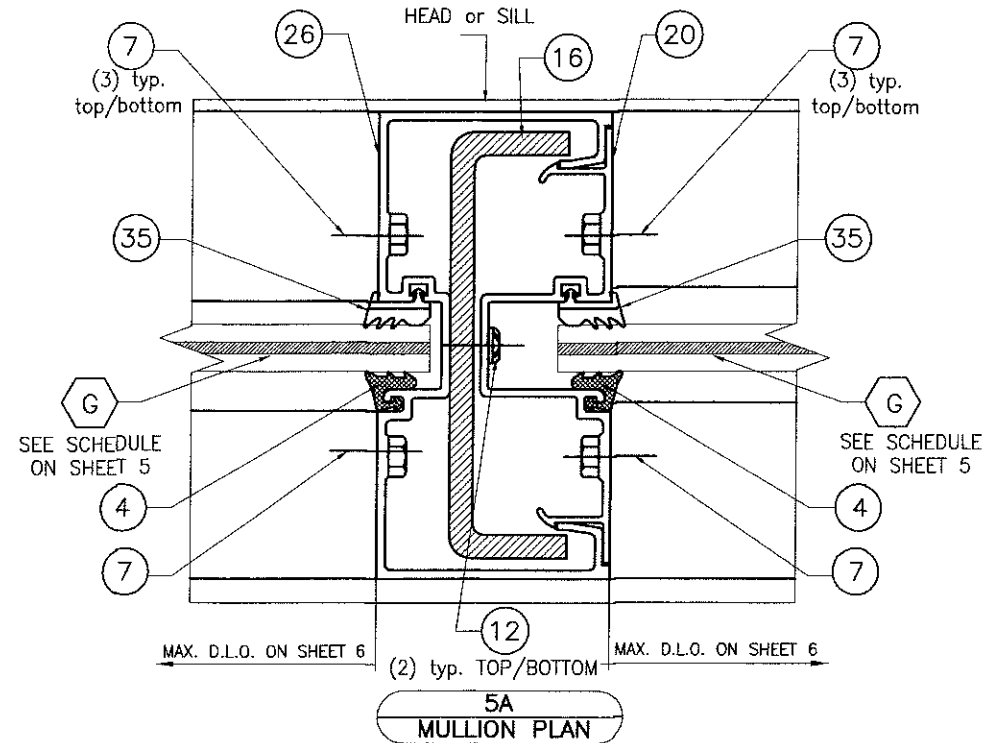
MIAMI - DADE COUNTY

HORIZONTAL SECTIONS AT STANDARD AND CORNER MULLIONS

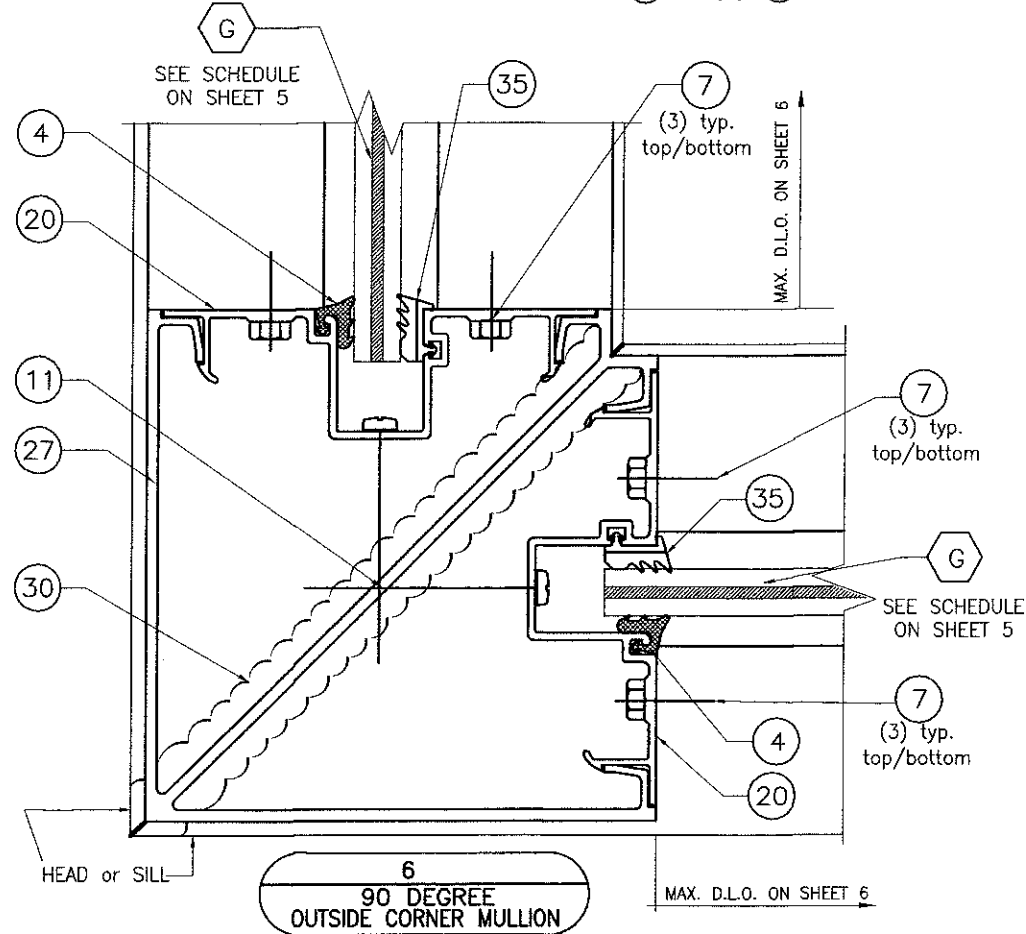
STANDARD MULLION 20 + 26



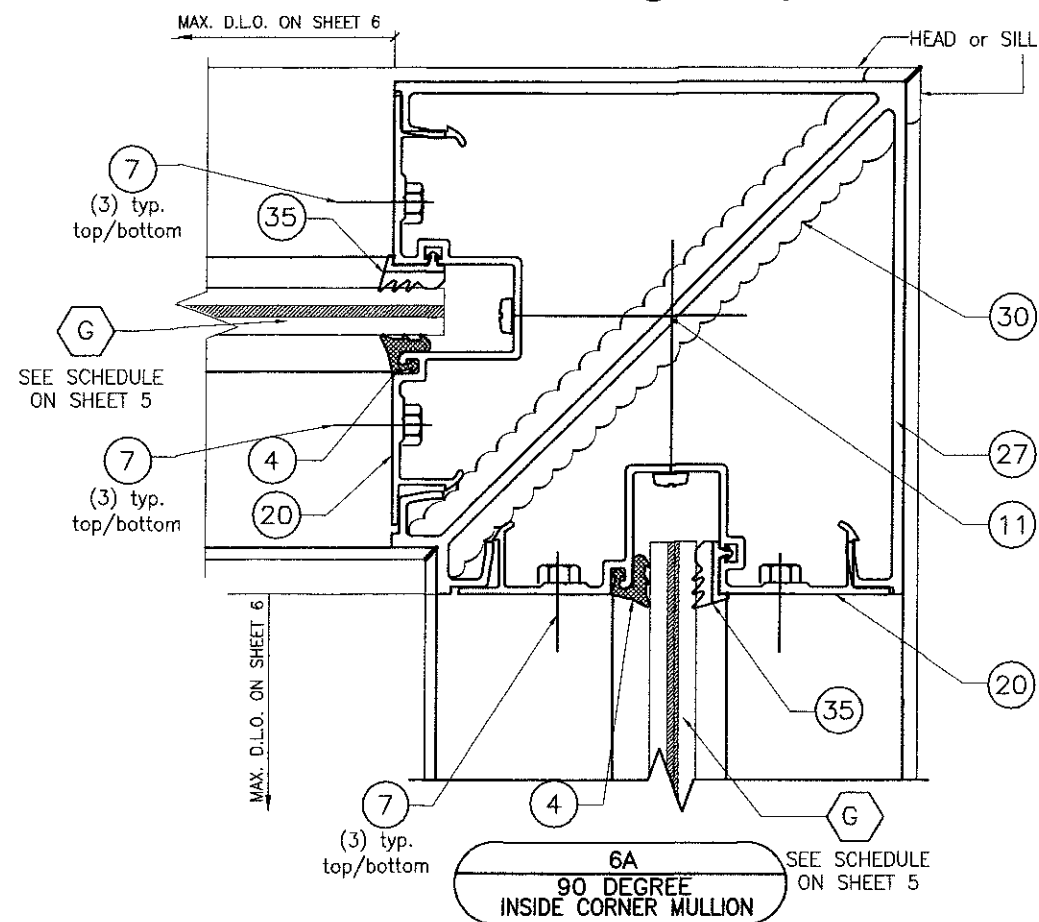
STANDARD MULLION 20 + 26 W/ STEEL CHANNEL 16



OUTSIDE CORNER MULLION 27 + (2) 20



INSIDE CORNER MULLION 27 + (2) 20



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DATE

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DRAWING No

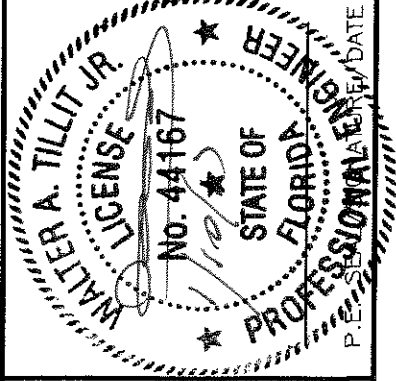
SHEET 17 OF 21

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REV. No.	DATE	DESCRIPTION
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WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

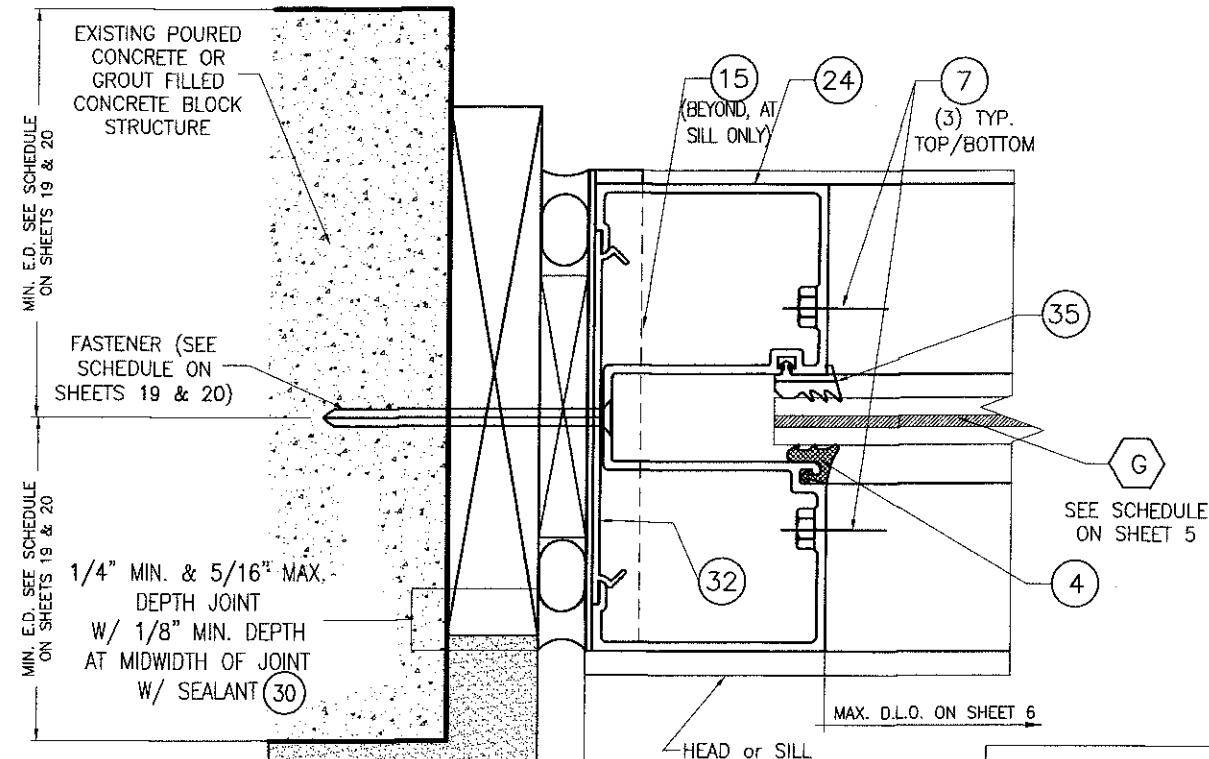


Approved as complying with the
Florida Building Code
Date Feb. 9, 2017
MOA# 16-0802-04
Miami Dade Product Control
Manuel Perez

MIAMI-DADE COUNTY

HORIZONTAL SECTIONS AT JAMB

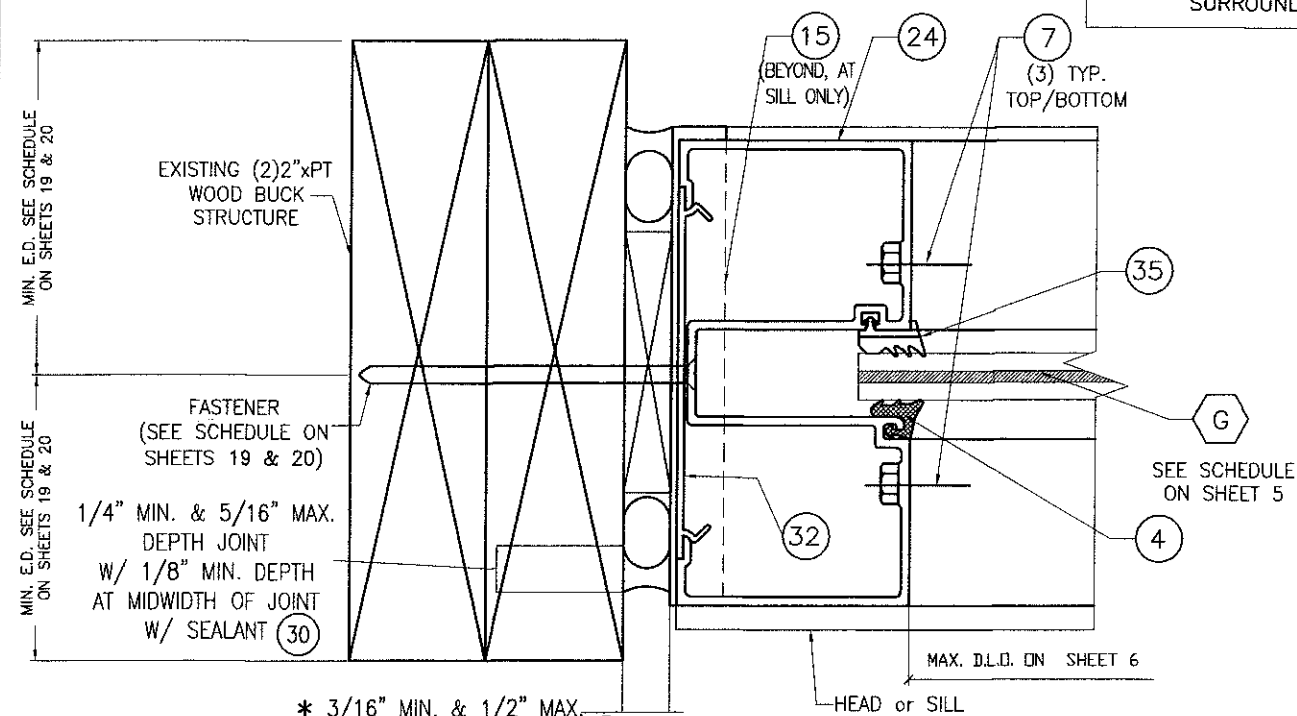
TO POURED CONCRETE OR GROUT FILLED CONCRETE BLOCK STRUCTURE



* 3/16" MIN. & 1/2" MAX.
WIDE JOINT W/ SEALANT (30)

4
JAMB W/ANCHORAGE
PLAN

TO WOOD STRUCTURE

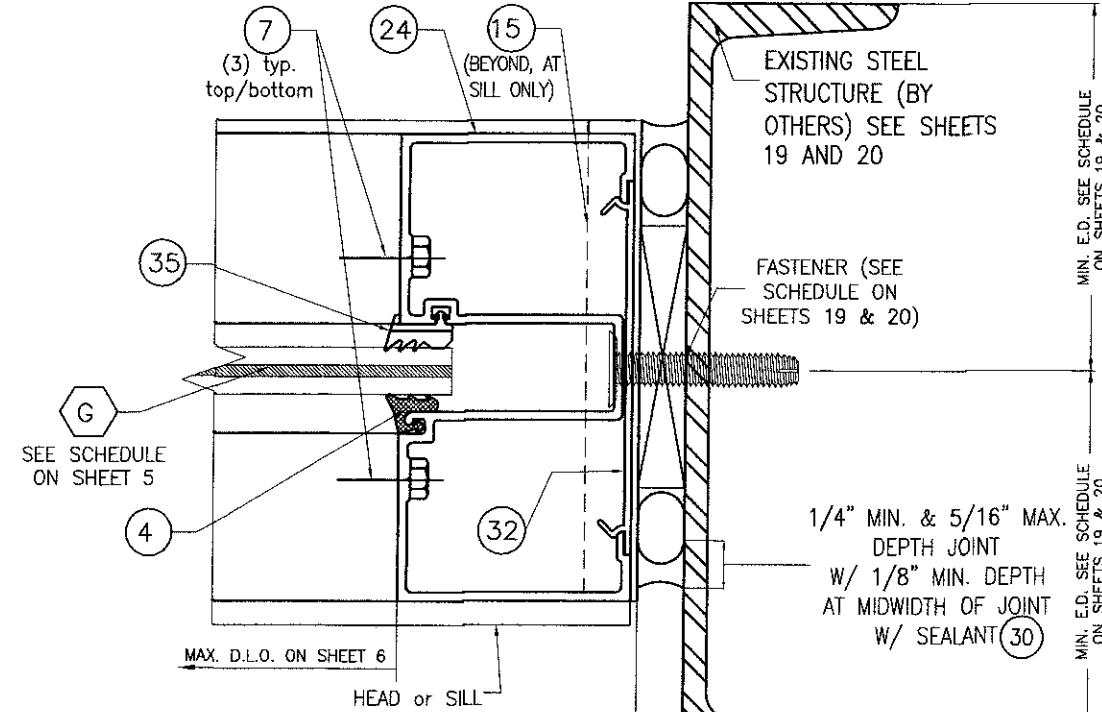


* 3/16" MIN. & 1/2" MAX.
WIDE JOINT W/ SEALANT (30)

4A
JAMB W/ANCHORAGE
PLAN

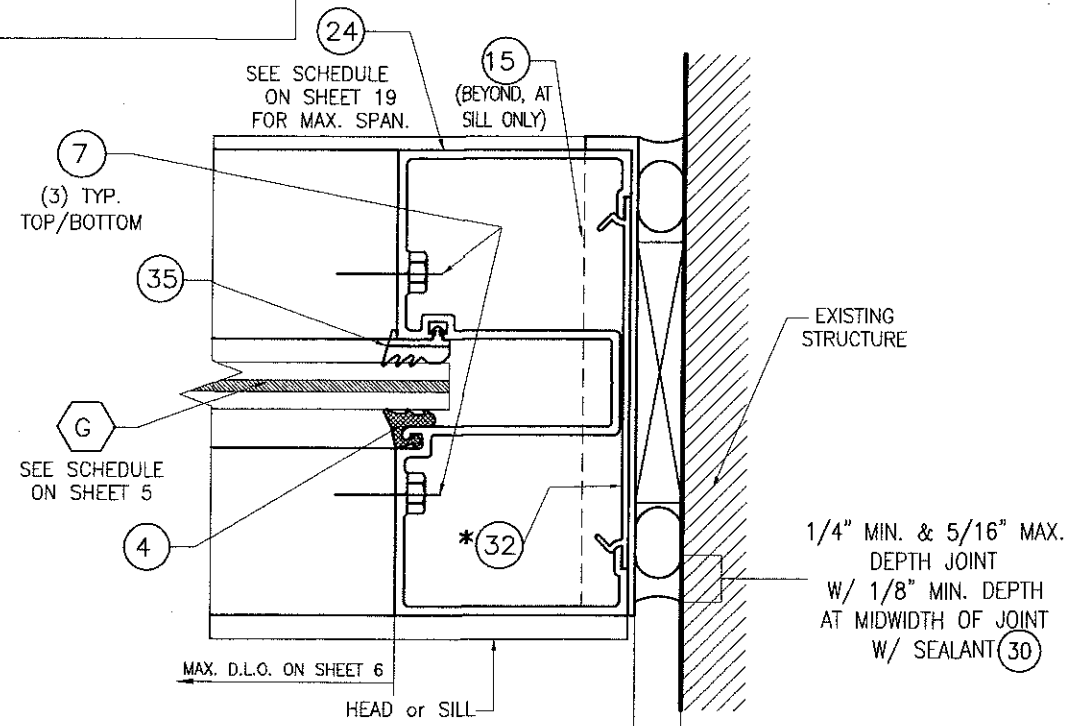
* NOTE: INDICATED MAXIMUM AND MINIMUM VALUES FOR SPECIFIED SEALANT VERTICAL JOINT WIDTH AT JAMBS CONNECTED & NOT CONNECTED TO WALL (FREE STANDING) HAVE BEEN DETERMINED ONLY TAKING INTO CONSIDERATION THE ACTUAL MOVEMENT OF GLASS WALL AT JAMBS DUE TO THERMAL, WIND AND ITS OWN CONSTRUCTION TOLERANCE, AND NOT PERFORMANCE FACTORS FROM THE SURROUNDING STRUCTURE.

TO STEEL STRUCTURE



4B
JAMB W/ANCHORAGE
PLAN

TO EXISTING STRUCTURE



1/4" MIN. & 5/16" MAX.
DEPTH JOINT
W/ 1/8" MIN. DEPTH
AT MIDWIDTH OF JOINT
W/ SEALANT (30)

3/8" MIN. & 5/8" MAX.*
WIDE JOINT W/ SEALANT (30)

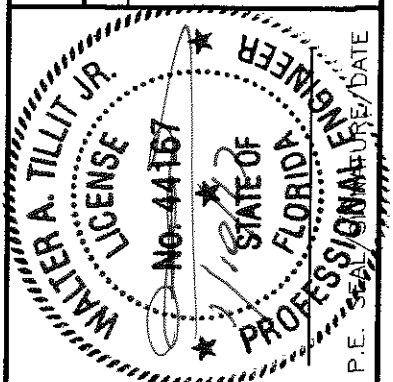
4C
JAMB W/ NO ANCHORAGE
PLAN

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

SERIES FG-5000 FLUSH GLAZED
ALUMINUM WINDOW WALL SYSTEM
LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)

Oldcastle BuildingEnvelope™
803 Airport Rd - Terrell, TX 75160
www.OldcastleBE.com - Phone 800-869-4567

TILECO INC.
TILLIT TESTING & ENGINEERING COMPANY
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Phone : (305) 871-1530 Fax : (305) 871-1531
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EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167



Approved as complying with the
Florida Building Code
Date **Feb. 9, 2007**
NOA# **16-8882-04**
Miami Dade Product Control

Manuel J. J...

MIAMI-DADE COUNTY

DRAWN BY:
F.R.L.

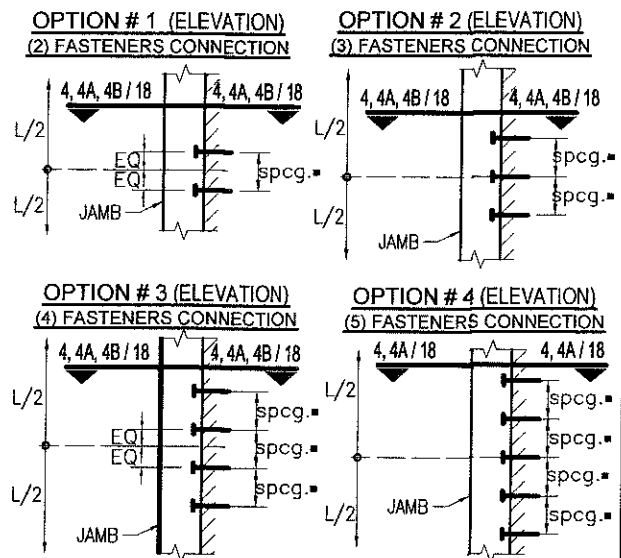
06/24/16
DATE

16-067
DRAWING NO

SHEET 18 OF 21

MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR JAMBS FASTENED W/ 3/8"Ø FASTENERS ■ SEE SHEET 13 FOR DEFINITION OF b

MAXIMUM MULLION SPAN "L" (Ft-in)	EFFECTIVE SPACING "b" (Ft-in)	OPTION #1 : (2) FASTENERS CONNECTION								OPTION #2 : (3) FASTENERS CONNECTION								OPTION #3 : (4) FASTENERS CONNECTION								OPTION #4 : (5) FASTENERS CONNECTION							
		POURED CONCRETE				GROUT FILLED C. BLOCK				STEEL				WOOD				POURED CONCRETE				GROUT FILLED C. BLOCK				STEEL				WOOD			
		J	K	L	M	N	O	P	Q	J	K	L	M	N	O	P	Q	J	K	L	M	N	O	P	Q	J	K	L	M	N	O	P	Q



■ FASTENERS TYPES AND SUBSTRATES REQUIREMENTS W/ INDICATED MIN. E.D. & SPACING (spcg), BEYOND ANY FINISH MATERIAL

- J** - 3/8"Ø HILTI KWIK BOLT 3 ANCHOR W/ 2" Min. EMBEDMENT, 2 3/4" MIN. ED. & 4" MIN. SPACING, INTO 6" Min. THICK POURED CONCRETE (Min. f'c = 3 ksi).
- K** - 3/8"Ø POWER FASTENERS TAPPER ANCHOR W/ 1 3/4" Min. EMBEDMENT, 2 3/4" MIN. ED. & 4 1/2" MIN. SPACING, INTO POURED CONCRETE (Min. f'c = 3 ksi).
- L** - 3/8"Ø HILTI HUS-H SCREW ANCHOR W/ 2" Min. EMBEDMENT, 2 3/4" MIN. ED. & 4" MIN. SPACING, INTO POURED CONCRETE (Min. f'c = 3 ksi).
- M** - 3/8"Ø POWER FASTENERS TAPPER ANCHOR W/ 2" Min. EMBEDMENT, 1 3/4" MIN. ED. & 4 1/2" MIN. SPACING INTO GROUT FILLED CONCRETE BLOCK.
- N** - 3/8"Ø HILTI KWIK BOLT 3 ANCHOR W/ 2 1/2" Min. EMBEDMENT, 2 3/4" MIN. ED. & 4 1/2" MIN. SPACING, INTO GROUT FILLED CONCRETE BLOCK.
- O** - 3/8"Ø HILTI HUS-H SCREW ANCHOR W/ 2 3/4" Min. EMBEDMENT, 2 3/4" MIN. ED. & 8" MIN. SPACING, INTO GROUT FILLED CONCRETE BLOCK.
- P** - 3/8"Ø TYPE "F" BOLT OR 3/8"Ø -13 SAE GRADE 5 GALVANIZED STEEL HHB THRU BOLT W/ NUT & LOCK WASHER & 1 3/4" MIN. EDGE DISTANCE & 2" MIN. SPACING TO 1/4" Min. THK. ASTM A-36 OR 12 GAUGE (0.108" MIN. THK.) Fy=33 ksi STEEL.
- Q** - 3/8"Ø LAG SCREWS TO DOUBLE 2 x WOOD BUCK (G=0.55) W/ 3" Min. PENETRATION INTO WOOD & 2" MIN. EDGE DISTANCE & 2" MIN SPACING, BEYOND ANY FINISH MATERIAL.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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6355 N.W. 35th St., Ste. 305, VIRGINIA GARDENS, FL 33166
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e-mail: tiltco@tilteco.com

Approved as complying with the Florida Building Code
Date: Feb 9, 2017
VOA# 16-067-02
Miami Dade Product Control

MANUEL PEREZ

MIAMI - DADE COUNTY

DRAWN BY: F.R.L.

DATE: 06/24/16

16-067

DRAWING No

SHEET 19 OF 21

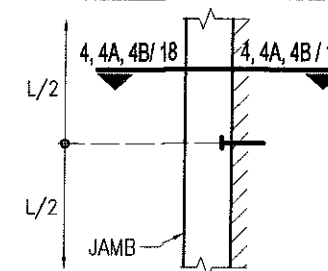
SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)

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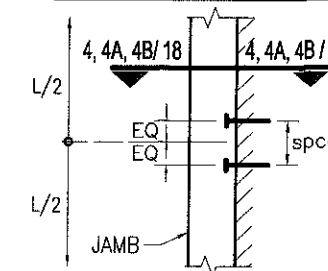
MAXIMUM A.S.D. DESIGN PRESSURE RATING SCHEDULE FOR JAMBS FASTENED W/ 1/2"Ø FASTENERS ■ * SEE SHEET 13 FOR DEFINITION OF b

MAXIMUM MULLION SPAN	EFFECTIVE SPACING "b" (Ft-in)	OPTION #1 : (1) FASTENER CONNECTION						OPTION #2 : (2) FASTENERS CONNECTION						OPTION #3 : (3) FASTENERS CONNECTION						OPTION #4 : (4) FASTENERS CONNECTION					
		POURED CONCRETE		GROUT FILLED C. BLOCK		STEEL		POURED CONCRETE		GROUT FILLED C. BLOCK		STEEL		POURED CONCRETE		GROUT FILLED C. BLOCK		STEEL		POURED CONCRETE		GROUT FILLED C. BLOCK		STEEL	
		R	S	T	U	V	W	R	S	T	U	V	W	R	S	T	U	V	W	R	S	T	U	V	W
6'-2"	1'-9"	90.0	90.0	57.5	88.0	90.0	54.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0

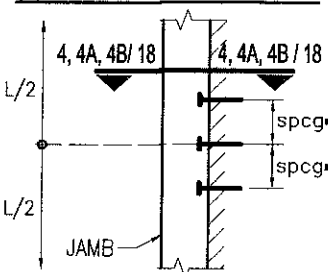
OPTION # 1 (ELEVATION)
(1) FASTENER CONNECTION



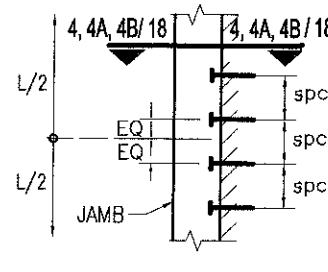
OPTION # 2 (ELEVATION)
(2) FASTENERS CONNECTION



OPTION # 3 (ELEVATION)
(3) FASTENERS CONNECTION



OPTION # 4 (ELEVATION)
(4) FASTENERS CONNECTION



■ FASTENERS TYPES AND SUBSTRATES
REQUIREMENTS W/ INDICATED MIN. E.D. & SPACING
(spcg), BEYOND ANY FINISH MATERIAL

- R** - 1/2"Ø HILTI KWIK BOLT 3 ANCHOR W/ 2" Min. EMBEDMENT, 2 3/4" MIN. ED. & 8" MIN. SPACING, INTO 6" Min. THICK POURED CONCRETE (Min. fc = 3 ksi).
- S** - 1/2"Ø HILTI HUS-H SCREW ANCHOR W/ 2" Min. EMBEDMENT, 2 3/4" MIN. ED. & 6" MIN. SPACING, INTO POURED CONCRETE (Min. fc = 3 ksi).
- T** - 1/2"Ø HILTI KWIK BOLT 3 ANCHOR W/ 2 1/4" Min. EMBEDMENT, 4" MIN. ED. & 8" MIN. SPACING, INTO GROUT FILLED CONCRETE BLOCK.
- U** - 1/2"Ø HILTI HUS-H SCREW ANCHOR W/ 3" Min. EMBEDMENT, 4" MIN. ED. & 8" MIN. SPACING INTO GROUT FILLED CONCRETE BLOCK.
- V** - 1/2"Ø TYPE "F" BOLT OR 1/2"Ø -13 SAE GRADE 5 GALVANIZED STEEL HHB THRU BOLT W/ NUT & LOCK WASHER & 2" MIN. EDGE DISTANCE & 2" MIN. SPACING TO 1/4" Min. THK. ASTM A-36 OR 12 GAGE (0.108" MIN. THK.) Fy=33 ksi STEEL.
- W** - 1/2"Ø LAG SCREWS TO DOUBLE 2 x WOOD BUCK (G=0.55) W/ 3" Min. PENETRATION INTO WOOD & 2" MIN. EDGE DISTANCE & 2" MIN. SPACING, BEYOND ANY FINISH MATERIAL.

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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e-mail: tiltco@aol.com
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FLORIDA Lic. # 44167

Approved as complying with the
Florida Building Code
Date: Feb. 9, 2017
16-0802-04
Miami Dade Product Control
Munir Peres

MIAMI-DADE COUNTY

DRAWN BY: F.R.L.

06/24/16 DATE

16-067 DRAWING No

SHEET 20 OF 21

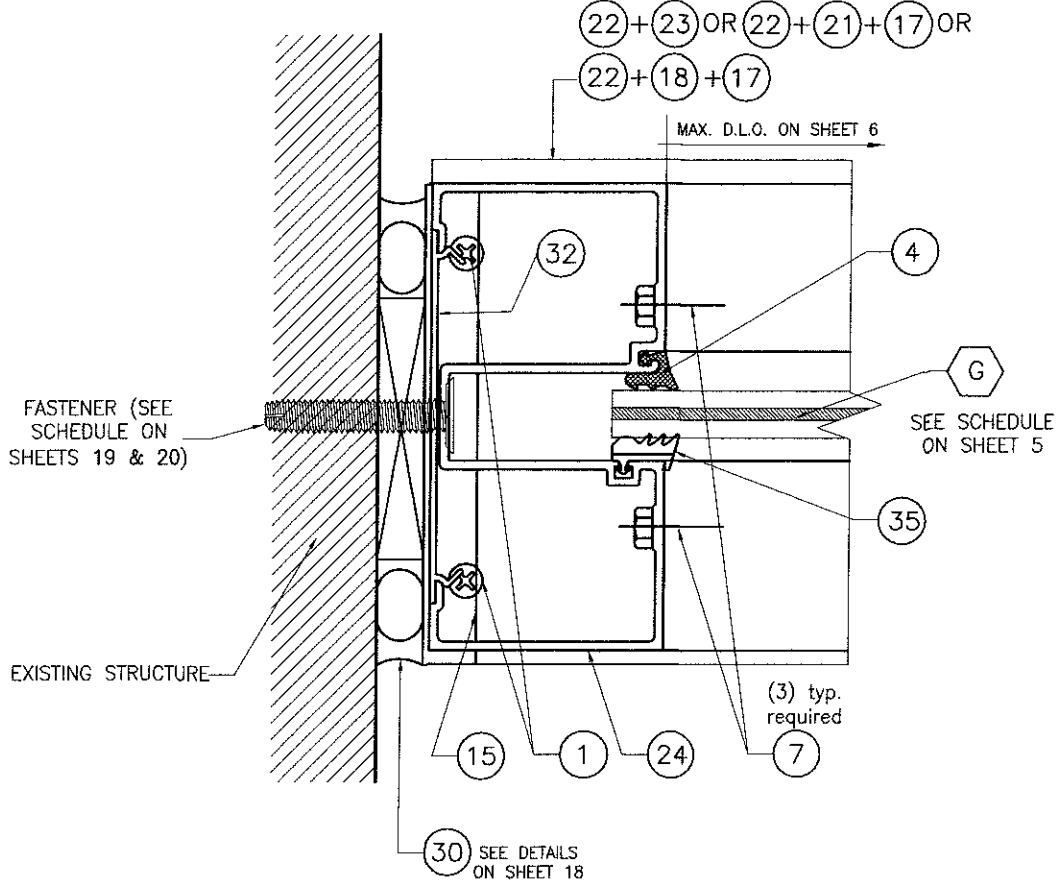
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REVISIONS

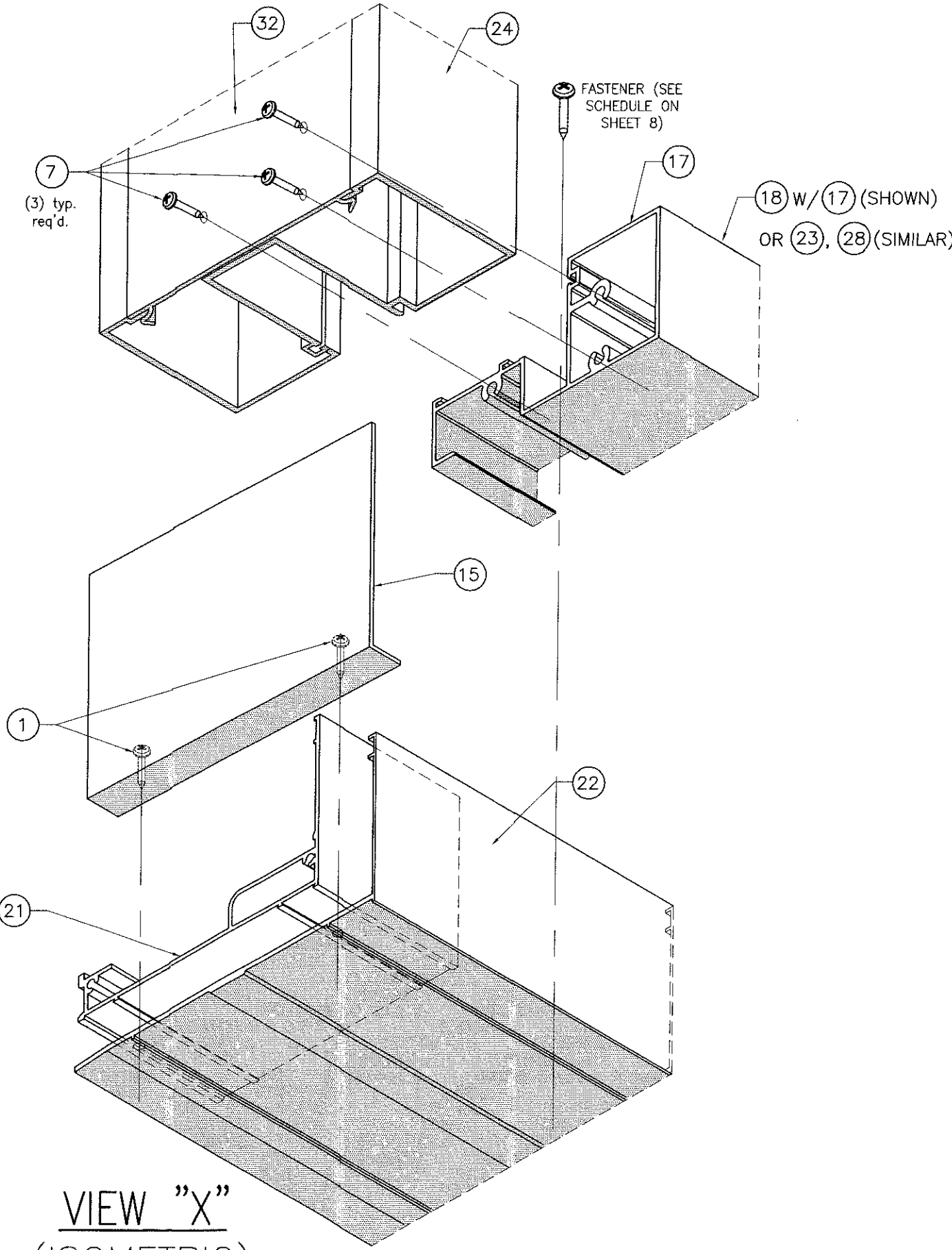
REV. No	DATE	DESCRIPTION
1	12/23/16	3
2		4

CORNER DETAIL AT JAMB

EXTERIOR



4D
JAMB PLAN

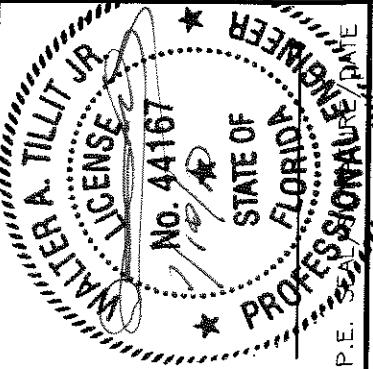


VIEW "X"
(ISOMETRIC)

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

DRAWN BY: F.R.L.	06/24/16 DATE	16-067 DRAWING No	SHEET 21 OF 21
SERIES FG-5000 FLUSH GLAZED ALUMINUM WINDOW WALL SYSTEM LARGE & SMALL MISSILE IMPACT LAMINATED GLASS (DRY GLAZED)			
oldcastle BuildingEnvelope™ 803 Airport Rd - Terrell, TX 75160 www.OldcastleBE.com - Phone 800-869-4567			
REV. No	DATE	REV. No	DATE
1	12/23/16	3	
2		4	

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EB-0008719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167



Approved as complying with the
Florida Building Code
Date Feb. 9, 2017
XOAS 16-0802-04
Miami Trade Product Council
Manuel Perez

MIAMI-DADE COUNTY