MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

ES Windows LLC

NOTICE OF ACCEPTANC

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No. 13-0617.25)
2. Drawing No. **W12-51**, titled "Series 7100 Alum. Window Wall System (S.M.I.)", sheets 1, 2, 3, 3.1, 4, 4.1, 5, 6 through 13 and 13.1 of 13, dated 09/12/12, with revision C dated 07/29/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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) Small 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 ES-7100 aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-8101**, dated 01/06/15, signed and sealed by Idalmis Ortega, P.E.
2. Test reports on: 1) Safety Performance Test, (Drop Test) per ANSI Z97.1-2009 along with marked-up drawings and installation diagram of a series ES-7000 aluminum window wall system and a series ES-7100 aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7862**, dated 07/25/14 and revised on 07/13/15, signed and sealed by Idalmis Ortega, P.E.
3. 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) Small 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 ES-7100 aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-7155**, dated 07/15/13, signed and sealed by Jorge A. Naya, P.E.
   (Submitted under NOA No. 13-0617.25)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 06/16/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with **ASTM E1300-09**

Manuel Perez

Manuel Perez, P.E.
Product Control Examiner
NOA No. 17-1218.09
Expiration Date: November 07, 2023
Approval Date: March 08, 2018

MIAMI-DADE
REVIEWED FOR
CODE COMPLIANCE

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their **"Butacite® PVB Glass Interlayer"** dated 04/25/15, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)**, and of no financial interest, dated June 16, 2015, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

G. OTHERS

1. Notice of Acceptance No. **13-0617.25**, issued to ES Windows, LLC for their Series "ES 7100S" Aluminum Window Wall System - S.M.I., approved on 11/07/13 and expiring on 11/07/18.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 17-1218.09
Expiration Date: November 07, 2023
Approval Date: March 08, 2018

MIAMI-DADE
REVIEWED FOR
CODE COMPLIANCE

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W12-51**, titled "Series 7100 Alum. Window Wall System (S.M.I.)", sheets 1 through 13 and 13.1 of 13, dated 09/12/12, with revision D dated 11/01/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. None

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 6th Edition (2017)**, dated 10/26/17, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **17-1114.14** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 01/18/18, expiring on 07/08/19.

F. STATEMENTS

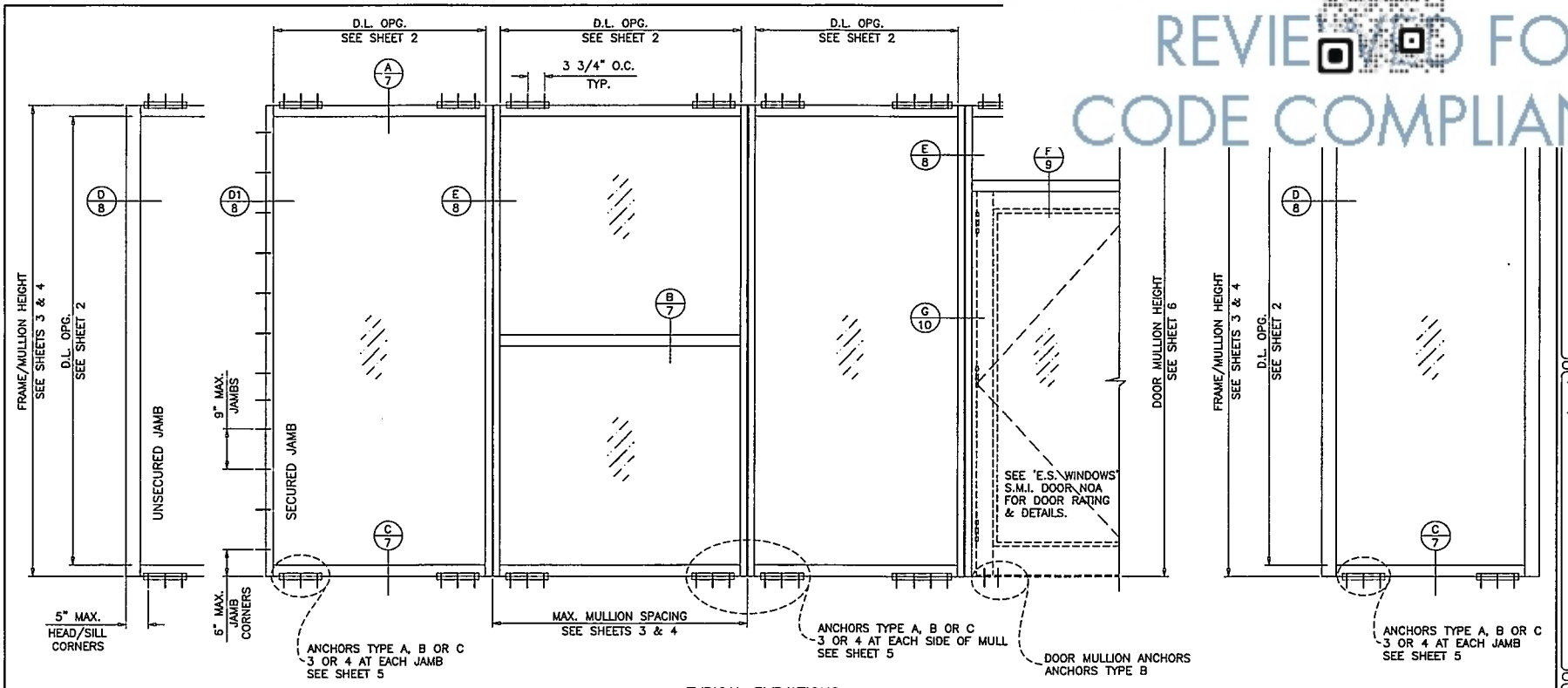
1. Statement letter of conformance, complying with **FBC 5th Edition (2014)**, with **FBC 6th Edition (2017)**, and of no financial interest, dated October 26, 2017, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

G. OTHERS

1. Notice of Acceptance No. **15-0430.06**, issued to ES Windows LLC, for their Series "7100" Aluminum Window Wall System – S.M.I., approved on 08/20/15 and expiring on 11/07/18.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 17-1218.09
Expiration Date: November 07, 2023
Approval Date: March 08, 2018

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE



TYPICAL ELEVATIONS

SERIES 7100 ALUMINUM WINDOW WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI-DADE COUNTY APPR'D SMALL MISSILE IMPACT RESISTANT DOORS. LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION)/2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2014/2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1 DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2 SEE CHARTS ON SHEET 2 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3 CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 3, 4 & 6 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4 USING CHARTS ON SHEET 5 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5 FOR SECURED JAMB OPTION CHECK JAMB ANCHOR CAPACITY USING CHART ON SHEET 8.
- STEP 6 THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1, SHALL APPLY TO ENTIRE SYSTEM.
- STEP 7 FOR SYSTEMS WITH UNANCHORED JAMBS, USING SHEET 11 DETERMINE THE MIN. & MAX. GAP DIMENSIONS.
- STEP 8 WHEN USING THIS SYSTEM WITH DOORS, THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

THIS SYSTEM IS RATED FOR SMALL MISSILE IMPACT.
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

LAMINATED GLASS
INSUL. LAM. GLASS
SMALL MISSILE IMPACT

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-1218.09
Expiration Date Nov. 1, 2023
By Manuel Perez
Miami Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPOI
ENGINEERS & PRODUCT DEVELO
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX. (30

SERIES 7100 ALUM. WINDOW WALL SYSTEM (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions: no	date	by	description
A	10.29.13		REV. PER RER COMMENTS
B	04.03.15		UPDATED TO 2014 FBC
C	07.29.15		NO CHANGE THIS SHEET
D	11.01.17		UPDATED TO 2017 FBC

date: 09-12-12
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

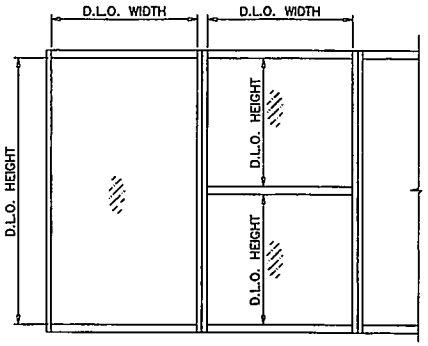
drawing no.
W12-451
sheet 1 of 13

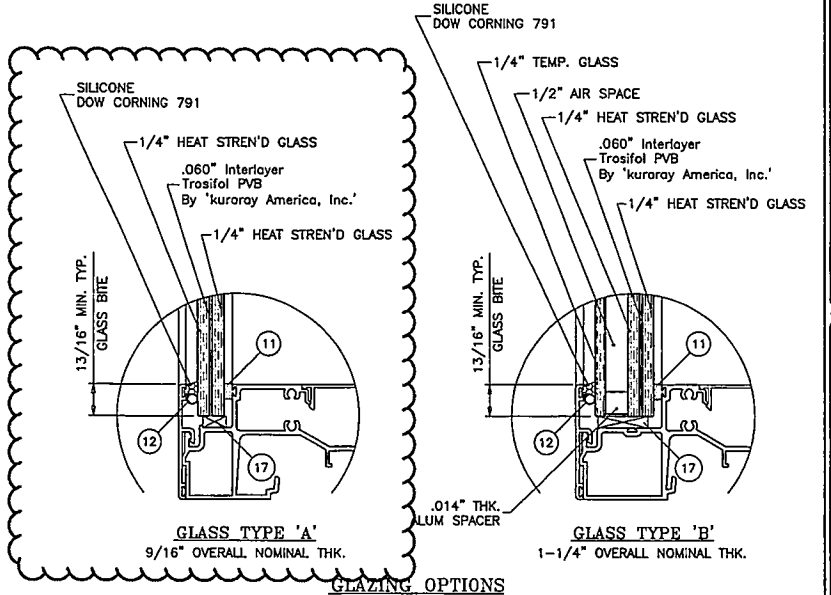
END

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

GLASS DESIGN LOAD CAPACITY – PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)
36"	88	150.0	150.0
39"		150.0	150.0
42"		150.0	150.0
45 1/2"		150.0	150.0
48"		145.7	150.0
51"		140.0	150.0
54"		134.6	147.0
57 1/2"		110.0	110.0
36"	92	150.0	150.0
39"		150.0	150.0
42"		150.0	150.0
45 1/2"		146.4	150.0
48"		141.8	150.0
51"		134.8	147.0
54"		129.4	140.0
57 1/2"		110.0	110.0
36"	96	150.0	150.0
39"		150.0	150.0
42"		150.0	150.0
45 1/2"		143.3	150.0
48"		136.7	150.0
51"		129.7	141.0
54"		110.0	110.0
57 1/2"		110.0	110.0
36"	100	150.0	150.0
39"		150.0	150.0
42"		149.1	150.0
45 1/2"		138.1	150.0
48"		131.8	150.0
51"		110.0	110.0
54"		110.0	110.0
57 1/2"		110.0	110.0
36"	104	150.0	150.0
39"		150.0	150.0
42"		144.3	150.0
45 1/2"		133.7	147.0
48"		127.3	145.0
51"		110.0	110.0
54"		110.0	110.0
57 1/2"		110.0	110.0
36"	108	150.0	150.0
39"		150.0	150.0
42"		140.2	150.0
45 1/2"		129.7	142.0
48"		110.0	110.0
51"		110.0	110.0
54"		110.0	110.0
57 1/2"		105.7	110.0

GLASS DESIGN LOAD CAPACITY – PSF			
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)
36"	112	150.0	150.0
39"		146.3	150.0
42"		136.5	150.0
45 1/2"		110.0	110.0
48"		110.0	110.0
51"		110.0	110.0
54"		107.6	110.0
36"	116	150.0	150.0
39"		142.7	150.0
42"		133.3	147.0
45 1/2"		110.0	110.0
48"		110.0	110.0
51"		110.0	110.0
36"	120	150.0	150.0
39"		142.2	150.0
42"		110.0	110.0
45 1/2"		110.0	110.0
48"		110.0	110.0
51"		106.6	110.0
36"	124	150.0	150.0
39"		142.6	150.0
42"		110.0	110.0
45 1/2"		110.0	110.0
48"		110.0	110.0
36"	128	150.0	150.0
39"		142.9	150.0
42"		110.0	110.0
45 1/2"		110.0	110.0
48"		108.5	110.0
36"	132"	150.0	150.0
39"		110.0	110.0
42"		110.0	110.0
45 1/2"		110.0	110.0
36"	136"	150.0	150.0
39"		110.0	110.0
42"		110.0	110.0
45 1/2"		110.0	110.0
36"	139"	150.0	150.0
39"		110.0	110.0
42"		110.0	110.0





GLAZING OPTIONS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 17-1218.09
Expiration Date Oct. 4, 2023
By Manuel Sua
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPO
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9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (

SERIES 7100 ALUM WINDOW WALL SYSTEM (S.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

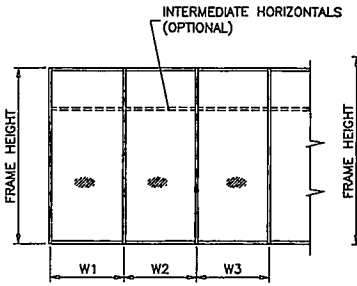
revisions:			
no	date	by	description
A	10.29.13		REV. PER RER COMMENTS
B	04.03.15		UPDATED TO 2014 FBC
C	07.29.15		REV. PER RER COMMENTS
D	11.01.17		UPDATED TO 2017 FBC

date: 09-12-12
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W12-51 44
sheet 2 of 13

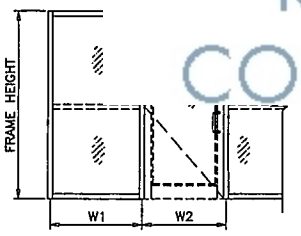
MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

MULLION DESIGN LOAD CAPACITY – PSF CHART FOR LAMINATED GLASS MULLIONS													
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J2' MULL 'M2'		JAMB 'J3' MULL 'M3'		NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J2' MULL 'M2'		JAMB 'J3' MULL 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
30"	108"	125.0	125.0	125.0	150.0	125.0	150.0	30"	96"	125.0	125.0	125.0	150.0	125.0	150.0
36"		125.0	125.0	125.0	150.0	125.0	150.0	36"		125.0	125.0	125.0	150.0	125.0	150.0
42"		125.0	125.0	125.0	150.0	125.0	150.0	42"		125.0	125.0	125.0	150.0	125.0	150.0
48"		125.0	125.0	125.0	150.0	125.0	150.0	48"		125.0	125.0	125.0	150.0	125.0	150.0
54"		125.0	125.0	125.0	150.0	125.0	150.0	54"		125.0	125.0	125.0	150.0	125.0	150.0
60"		116.7	116.7	125.0	150.0	125.0	150.0	58"		125.0	125.0	125.0	150.0	125.0	150.0
30"	114"	125.0	125.0	125.0	140.0	125.0	140.0	60"		125.0	125.0	125.0	150.0	125.0	150.0
36"		125.0	125.0	125.0	150.0	125.0	150.0	30"	102"	125.0	125.0	125.0	150.0	125.0	150.0
42"		125.0	125.0	125.0	150.0	125.0	150.0	36"		125.0	125.0	125.0	150.0	125.0	150.0
48"		125.0	125.0	125.0	150.0	125.0	150.0	42"		125.0	125.0	125.0	150.0	125.0	150.0
54"		115.4	115.4	125.0	150.0	125.0	150.0	48"		125.0	125.0	125.0	150.0	125.0	150.0
60"		103.9	103.9	125.0	150.0	125.0	150.0	54"		125.0	125.0	125.0	150.0	125.0	150.0
30"	120"	125.0	125.0	125.0	140.0	125.0	140.0	55"		125.0	125.0	125.0	150.0	125.0	150.0
36"		125.0	125.0	125.0	150.0	125.0	150.0	60"		125.0	125.0	125.0	140.0	125.0	140.0
42"		125.0	125.0	125.0	150.0	125.0	150.0	30"	108"	125.0	125.0	125.0	150.0	125.0	150.0
48"		115.1	115.1	125.0	150.0	125.0	150.0	36"		125.0	125.0	125.0	150.0	125.0	150.0
54"		102.3	102.3	125.0	150.0	125.0	150.0	42"		125.0	125.0	125.0	150.0	125.0	150.0
57"		92.1	92.1	125.0	150.0	125.0	150.0	48"		125.0	125.0	125.0	150.0	125.0	150.0
30"	126"	125.0	125.0	125.0	140.0	125.0	140.0	54"		125.0	125.0	125.0	140.0	125.0	140.0
36"		125.0	125.0	125.0	150.0	125.0	150.0	60"		125.0	125.0	125.0	140.0	125.0	140.0
42"		113.6	113.6	125.0	150.0	125.0	150.0	30"	114"	125.0	125.0	125.0	150.0	125.0	150.0
48"		99.4	99.4	125.0	150.0	125.0	150.0	36"		125.0	125.0	125.0	150.0	125.0	150.0
54"		88.4	88.4	125.0	150.0	125.0	150.0	42"		125.0	125.0	125.0	150.0	125.0	150.0
30"	132"	125.0	125.0	125.0	140.0	125.0	140.0	48"		125.0	125.0	125.0	150.0	125.0	150.0
36"		115.3	115.3	125.0	150.0	125.0	150.0	49"		125.0	125.0	125.0	150.0	125.0	150.0
42"		98.8	98.8	125.0	150.0	125.0	150.0	54"		125.0	125.0	125.0	140.0	125.0	140.0
48"		86.5	86.5	125.0	150.0	125.0	150.0	60"		125.0	125.0	125.0	129.8	125.0	140.0
52"		76.9	76.9	125.0	150.0	125.0	150.0	30"	120"	125.0	125.0	125.0	150.0	125.0	150.0
30"	138"	121.1	121.1	125.0	150.0	125.0	150.0	36"		125.0	125.0	125.0	150.0	125.0	150.0
36"		100.9	100.9	125.0	150.0	125.0	150.0	42"		125.0	125.0	125.0	150.0	125.0	150.0
42"		86.5	86.5	125.0	150.0	125.0	150.0	48"		125.0	125.0	125.0	140.0	125.0	140.0
48"		75.7	75.7	125.0	150.0	125.0	150.0	54"		125.0	125.0	125.0	130.2	125.0	140.0
50"		69.9	69.9	125.0	150.0	125.0	150.0	57"		123.3	123.3	125.0	140.0	125.0	140.0
30"	144"	106.6	106.6	125.0	150.0	125.0	150.0	30"	126"	125.0	125.0	125.0	150.0	125.0	150.0
36"		88.8	88.8	125.0	150.0	125.0	150.0	36"		125.0	125.0	125.0	150.0	125.0	150.0
42"		76.1	76.1	125.0	150.0	125.0	150.0	42"		125.0	125.0	125.0	150.0	125.0	150.0
48"		66.6	66.6	125.0	150.0	125.0	150.0	48"		125.0	125.0	125.0	132.8	125.0	140.0
								54"		118.1	118.1	125.0	140.0	125.0	140.0
								30"	132"	125.0	125.0	125.0	150.0	125.0	150.0
								36"		125.0	125.0	125.0	150.0	125.0	150.0
								42"		125.0	125.0	125.0	138.3	125.0	150.0
								48"		121.0	121.0	125.0	140.0	125.0	140.0
								52"		111.7	111.7	125.0	140.0	125.0	140.0
								30"	138"	125.0	125.0	125.0	150.0	125.0	150.0
								36"		125.0	125.0	125.0	147.6	125.0	150.0
								40"		125.0	125.0	125.0	126.5	125.0	150.0
								42"		110.7	110.7	125.0	140.0	125.0	140.0
								48"		106.3	106.3	125.0	140.0	125.0	140.0
								50"		102.2	102.2	125.0	140.0	125.0	140.0
								30"	144"	125.0	125.0	125.0	150.0	125.0	150.0
								36"		125.0	125.0	125.0	135.6	125.0	150.0
								39"		125.0	125.0	125.0	125.2	125.0	150.0
								42"		116.2	116.2	125.0	140.0	125.0	140.0
								48"		101.7	101.7	125.0	140.0	125.0	140.0

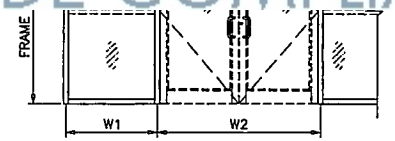


WIDTH (W) = W1
AT JAMB

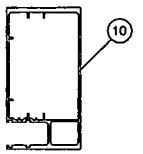
WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION



WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION

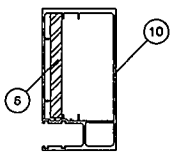


WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$
AT MULLION



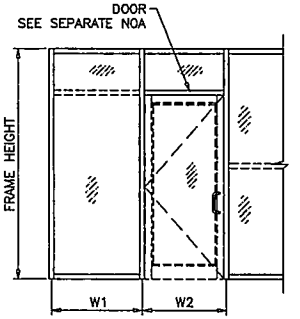
JAMB 'J1' & 'J2'

Ix IN^4	Sx IN^3
14.6111	4.6414

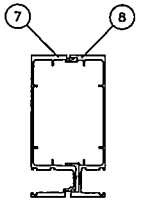


JAMB 'J3'

	Ix IN^4	Sx IN^3
ALUMINUM	14.6111	4.6414
STEEL	3.797	1.687
TOTAL Ix ALUM + Ix STL X 2.9	25.622	

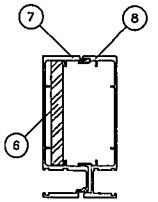


WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



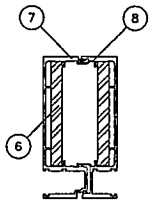
MULLION 'M1'

Ix IN^4	Sx IN^3
15.385	4.546



MULLION 'M2'

	Ix IN^4	Sx IN^3
ALUMINUM	15.385	4.546
STEEL	3.797	1.6875
TOTAL Ix ALUM + Ix STL X 2.9	26.396	



MULLION 'M3'

	Ix IN^4	Sx IN^3
ALUMINUM	15.385	4.546
STEEL	7.594	3.375
TOTAL Ix ALUM + Ix STL X 2.9	37.407	

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 17-1218.09
Expiration Date Nov. 1, 2023
By Manuel Feria
Miami Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORP
ENGINEERS & PRODUCT DEVE
9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX.

SERIES 7100 ALUM WINDOW WALL SYSTEM (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		
no	date	by description
A	10.29.13	REV. PER RER COMMENTS
B	04.03.15	UPDATED TO 2014 FBC
C	07.29.15	NO CHANGE THIS SHEET
D	11.01.17	UPDATED TO 2017 FBC

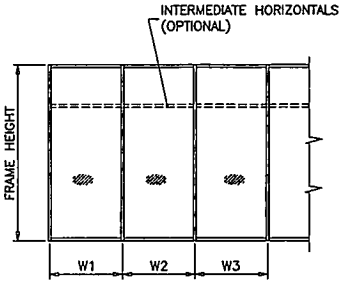
date: 09-12-12
scale: 3/8" = 1'
dr. by: TARIQ
chk. by:

drawing no.
W12-51
sheet 3 of 13

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

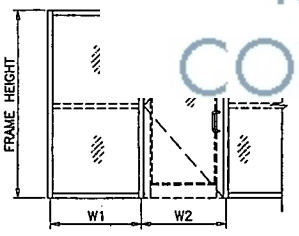
MULLION DESIGN LOAD CAPACITY – PSF CHART FOR INSUL. LAM. GLASS MULLIONS			
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (–)
30"	108"	100.0	110.0
36"		100.0	110.0
42"		100.0	110.0
48"		100.0	110.0
54"		100.0	110.0
60"		100.0	110.0
30"	114"	100.0	110.0
36"		100.0	110.0
42"		100.0	110.0
48"		100.0	110.0
54"		100.0	110.0
60"		100.0	100.6
30"	120"	100.0	110.0
36"		100.0	110.0
42"		100.0	110.0
48"		100.0	107.8
54"		95.9	95.9
57"		86.3	86.3
30"	126"	100.0	110.0
36"		100.0	110.0
42"		100.0	106.5
48"		93.2	93.2
54"		82.8	82.8
30"	132"	100.0	110.0
36"		100.0	108.0
42"		92.6	92.6
48"		81.0	81.0
52"		72.0	72.0
30"	138"	100.0	110.0
36"		94.5	94.5
42"		81.0	81.0
48"		70.9	70.9
50"		65.5	65.5
30"	144"	99.9	99.9
36"		83.2	83.2
42"		71.3	71.3
48"		62.4	62.4

MULLION DESIGN LOAD CAPACITY – PSF CHART FOR INSUL. LAM. GLASS MULLIONS					
NOMINAL DIMS.		JAMB 'J2' MULL 'M2'		JAMB 'J3' MULL 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (–)	EXT. (+)	INT. (–)
30"	96"	100.0	150.0	100.0	150.0
36"		100.0	150.0	100.0	150.0
42"		100.0	150.0	100.0	150.0
48"		100.0	150.0	100.0	150.0
54"		100.0	150.0	100.0	150.0
58"		100.0	140.0	100.0	140.0
60"		100.0	140.0	100.0	140.0
30"	102"	100.0	150.0	100.0	150.0
36"		100.0	150.0	100.0	150.0
42"		100.0	150.0	100.0	150.0
48"		100.0	150.0	100.0	150.0
54"		100.0	140.0	100.0	140.0
55"		100.0	140.0	100.0	140.0
60"		100.0	140.0	100.0	140.0
30"	108"	100.0	150.0	100.0	150.0
36"		100.0	150.0	100.0	150.0
42"		100.0	150.0	100.0	150.0
48"		100.0	150.0	100.0	150.0
54"		100.0	140.0	100.0	140.0
60"		100.0	140.0	100.0	140.0
30"	114"	100.0	150.0	100.0	150.0
36"		100.0	150.0	100.0	150.0
42"		100.0	150.0	100.0	150.0
48"		100.0	140.0	100.0	140.0
49"		100.0	140.0	100.0	140.0
54"		100.0	140.0	100.0	140.0
58"		100.0	140.0	100.0	140.0
60"		100.0	140.0	100.0	140.0
30"	120"	100.0	150.0	100.0	150.0
36"		100.0	150.0	100.0	150.0
42"		100.0	150.0	100.0	150.0
48"		100.0	140.0	100.0	140.0
54"		100.0	137.8	100.0	140.0
57"		100.0	130.6	100.0	140.0
30"	126"	100.0	150.0	100.0	150.0
36"		100.0	150.0	100.0	150.0
42"		100.0	150.0	100.0	150.0
48"		100.0	133.9	100.0	140.0
54"		100.0	119.0	100.0	140.0
30"	132"	100.0	150.0	100.0	150.0
36"		100.0	150.0	100.0	150.0
42"		100.0	133.1	100.0	140.0
48"		100.0	116.5	100.0	140.0
52"		100.0	107.5	100.0	137.9
30"	138"	100.0	150.0	100.0	150.0
36"		100.0	135.9	100.0	150.0
42"		100.0	116.5	100.0	140.0
48"		100.0	101.9	100.0	133.0
50"		97.9	97.9	100.0	127.6
30"	144"	100.0	140.0	100.0	140.0
36"		100.0	119.6	100.0	140.0
39"		100.0	110.4	100.0	140.0
42"		100.0	102.5	100.0	133.7
48"		89.7	89.7	100.0	117.0

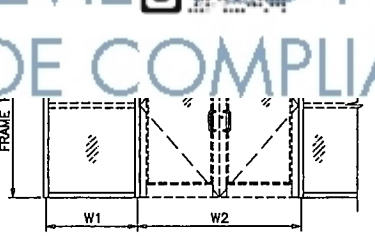


WIDTH (W) = W1
AT JAMB

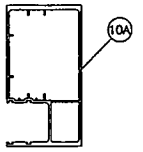
WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION



WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION

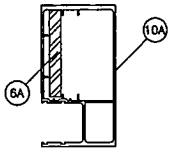


WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$
AT MULLION



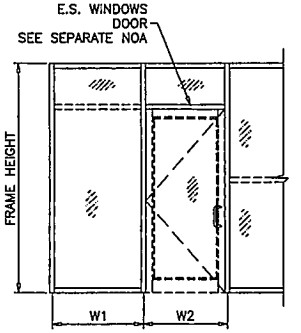
JAMB 'J1' & 'J2'

Ix IN^4	Sx IN^3
14.1989	4.5744

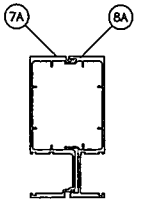


JAMB 'J3'

	Ix IN^4	Sx IN^3
ALUMINUM	14.1989	4.5744
STEEL	2.197	1.172
TOTAL Ix ALUM + Ix STL X 2.9	20.571	

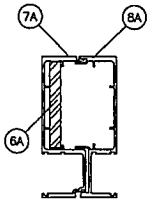


WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



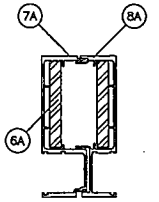
MULLION 'M1'

Ix IN^4	Sx IN^3
14.414	4.488



MULLION 'M2'

	Ix IN^4	Sx IN^3
ALUMINUM	14.414	4.488
STEEL	2.197	1.172
TOTAL Ix ALUM + Ix STL X 2.9	20.786	



MULLION 'M3'

	Ix IN^4	Sx IN^3
ALUMINUM	14.414	4.488
STEEL	4.394	2.344
TOTAL Ix ALUM + Ix STL X 2.9	27.158	

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1218.09
Expiration Date Nov. 7, 2023
By
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70582
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORP
ENGINEERS & PRODUCT DEVE
9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX. (

SERIES 7100 ALUM WINDOW WALL SYSTEM (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:			
no	date	by	description
A	10.29.13		REV. PER RER COMMENTS
B	04.03.15		UPDATED TO 2014 FBC
C	07.28.15		NO CHANGE THIS SHEET
D	11.01.17		UPDATED TO 2017 FBC

date: 09-12-12
scale: 3/8" = 1'
dr. by: TARIQ
chk. by:

drawing no.
W12-51
46

sheet 4 of 13

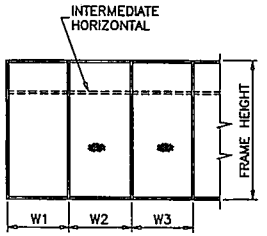
MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

HEAD/SILL ANCHOR DESIGN LOAD CAPACITY - PSF
EXT.(+) & INT.(-)

NOMINAL DIMS.		TYPE 'A'			TYPE 'B'			TYPE 'C'			TYPE 'D'		
WIDTH (W)	FRAME HEIGHT	A3	A4	A5	B3	B4	B5	C3	C4	C5	D3	D4	D5
30"	90"	150.0	150.0	150.0	150.0	150.0	150.0	120.0	150.0	150.0	150.0	150.0	150.0
36"		150.0	150.0	150.0	150.0	150.0	150.0	100.0	134.0	150.0	150.0	150.0	150.0
42"		131.0	150.0	150.0	149.0	150.0	150.0	86.0	115.0	143.0	142.0	150.0	150.0
48"		115.0	150.0	150.0	130.0	150.0	150.0	75.0	100.0	125.0	124.0	150.0	150.0
54"		102.0	136.0	150.0	116.0	150.0	150.0	67.0	89.0	111.0	110.0	147.0	150.0
60"		92.0	122.0	150.0	104.0	139.0	150.0	60.0	80.0	100.0	99.0	132.0	150.0
30"	96"	150.0	150.0	150.0	150.0	150.0	150.0	113.0	150.0	150.0	150.0	150.0	150.0
36"		144.0	150.0	150.0	150.0	150.0	150.0	94.0	125.0	150.0	150.0	150.0	150.0
42"		123.0	150.0	150.0	139.0	150.0	150.0	81.0	107.0	134.0	133.0	150.0	150.0
48"		108.0	144.0	150.0	122.0	150.0	150.0	71.0	94.0	118.0	116.0	150.0	150.0
54"		96.0	128.0	150.0	108.0	144.0	150.0	63.0	84.0	104.0	103.0	138.0	150.0
60"		86.0	115.0	144.0	98.0	130.0	150.0	56.0	75.0	94.0	93.0	124.0	150.0
30"	102"	150.0	150.0	150.0	150.0	150.0	150.0	106.0	142.0	150.0	150.0	150.0	150.0
36"		135.0	150.0	150.0	150.0	150.0	150.0	88.0	118.0	147.0	146.0	150.0	150.0
42"		116.0	150.0	150.0	131.0	150.0	150.0	76.0	101.0	126.0	125.0	150.0	150.0
48"		101.0	135.0	150.0	115.0	150.0	150.0	66.0	88.0	111.0	109.0	146.0	150.0
54"		90.0	120.0	150.0	102.0	136.0	150.0	59.0	79.0	98.0	97.0	130.0	150.0
60"		81.0	108.0	135.0	92.0	122.0	150.0	53.0	71.0	88.0	88.0	117.0	146.0
30"	108"	150.0	150.0	150.0	150.0	150.0	150.0	100.0	134.0	150.0	150.0	150.0	150.0
36"		128.0	150.0	150.0	144.0	150.0	150.0	84.0	111.0	139.0	138.0	150.0	150.0
42"		109.0	146.0	150.0	124.0	150.0	150.0	72.0	95.0	119.0	118.0	150.0	150.0
48"		96.0	128.0	150.0	108.0	144.0	150.0	63.0	84.0	104.0	103.0	138.0	150.0
54"		85.0	113.0	142.0	96.0	128.0	150.0	56.0	74.0	93.0	92.0	122.0	150.0
60"		77.0	102.0	128.0	87.0	116.0	144.0	50.0	67.0	84.0	83.0	110.0	138.0
30"	114"	145.0	150.0	150.0	150.0	150.0	150.0	95.0	127.0	150.0	150.0	150.0	150.0
36"		121.0	150.0	150.0	137.0	150.0	150.0	79.0	106.0	132.0	131.0	150.0	150.0
42"		104.0	138.0	150.0	117.0	150.0	150.0	68.0	90.0	113.0	112.0	149.0	150.0
48"		91.0	121.0	150.0	103.0	137.0	150.0	59.0	79.0	99.0	98.0	131.0	150.0
54"		81.0	107.0	134.0	91.0	122.0	150.0	53.0	70.0	88.0	87.0	116.0	145.0
60"		73.0	97.0	121.0	82.0	109.0	137.0	47.0	63.0	79.0	78.0	104.0	131.0
30"	120"	138.0	150.0	150.0	150.0	150.0	150.0	90.0	120.0	150.0	149.0	150.0	150.0
36"		115.0	150.0	150.0	130.0	150.0	150.0	75.0	100.0	125.0	124.0	150.0	150.0
42"		98.0	131.0	150.0	111.0	149.0	150.0	64.0	86.0	107.0	106.0	142.0	150.0
48"		86.0	115.0	144.0	98.0	130.0	150.0	56.0	75.0	94.0	93.0	124.0	150.0
54"		77.0	102.0	128.0	87.0	116.0	144.0	50.0	67.0	84.0	83.0	110.0	138.0
57"		73.0	97.0	121.0	82.0	109.0	137.0	47.0	63.0	79.0	78.0	104.0	131.0
30"	126"	131.0	150.0	150.0	149.0	150.0	150.0	86.0	115.0	143.0	142.0	150.0	150.0
36"		109.0	146.0	150.0	124.0	150.0	150.0	72.0	95.0	119.0	118.0	150.0	150.0
42"		94.0	125.0	150.0	106.0	141.0	150.0	61.0	82.0	102.0	101.0	135.0	150.0
48"		82.0	109.0	137.0	93.0	124.0	150.0	54.0	72.0	90.0	89.0	118.0	148.0
54"		73.0	97.0	121.0	83.0	110.0	138.0	48.0	64.0	80.0	79.0	105.0	131.0
30"	132"	125.0	150.0	150.0	142.0	150.0	150.0	82.0	109.0	137.0	135.0	150.0	150.0
36"		104.0	139.0	150.0	118.0	150.0	150.0	68.0	91.0	114.0	113.0	150.0	150.0
42"		89.0	119.0	149.0	101.0	135.0	150.0	59.0	78.0	98.0	97.0	129.0	150.0
48"		78.0	104.0	130.0	89.0	118.0	148.0	51.0	68.0	85.0	85.0	113.0	141.0
52"		72.0	96.0	120.0	82.0	109.0	136.0	47.0	63.0	79.0	78.0	104.0	130.0

HEAD/

NOMINAL DIMS.		TYPE											
WIDTH (W)	FRAME HEIGHT	A3	A4										
30"	138"	120.0	150.0										
36"		100.0	133.0										
42"		86.0	114.0										
48"		75.0	100.0										
50		72.0	96.0	120.0	81.0	109.0	136.0	47.0	63.0	78.0	78.0	104.0	129.0
30"	144"	115.0	150.0	150.0	130.0	150.0	150.0	75.0	100.0	125.0	124.0	150.0	150.0
36"		96.0	128.0	150.0	108.0	144.0	150.0	63.0	84.0	104.0	103.0	138.0	150.0
42"		82.0	109.0	137.0	93.0	124.0	150.0	54.0	72.0	90.0	89.0	118.0	148.0
48"		72.0	96.0	120.0	81.0	108.0	135.0	47.0	63.0	78.0	78.0	103.0	129.0



WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

ANCHORS TYPES: SEE SHEET 7 FOR DESCRIPTION

A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
D3 = (3) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION

A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
D4 = (4) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION

A5 = (5) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B5 = (5) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
D5 = (5) ANCHORS TYPE 'D' AT EACH SIDE OF JAMB AND MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

NOTE: INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1218.09
Expiration Date: Nov 4 2023
By: Miami Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPO
ENGINEERS & PRODUCT DEVEL
9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (3

SERIES 7100 ALUM WINDOW WALL SYSTEM (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

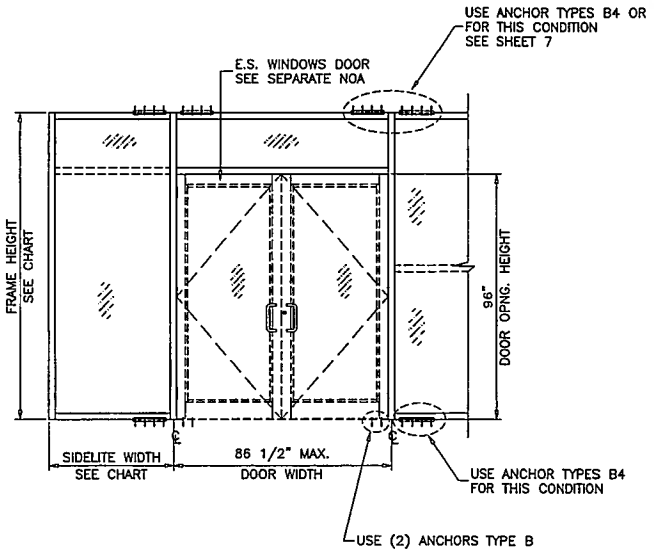
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C	07.28.15		NO CHANGE THIS SHEET
D	11.01.17		UPDATED TO 2017 FBC

date: 04-24-13
scale: 3/8" = 1'
dr. by: TARIQ
chk. by:

drawing no.
W12-51
47
sheet 5 of 13

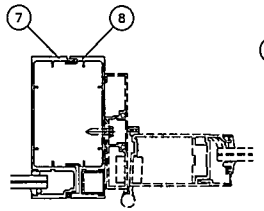
MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

DOOR MULLION DESIGN LOAD CAPACITY–PSF				
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	MULL 'MD1' EXT. (+) INT. (–)	MULL 'MD2' EXT. (+) INT. (–)	MULL 'MD3' EXT. (+) INT. (–)
30	120	90.0	90.0	90.0
36		90.0	90.0	90.0
42		90.0	90.0	90.0
48		90.0	90.0	90.0
54		90.0	90.0	90.0
57		88.6	90.0	90.0
30	126	90.0	90.0	90.0
36		90.0	90.0	90.0
42		88.2	90.0	90.0
48		83.9	90.0	90.0
54		80.0	90.0	90.0
30	132	87.1	90.0	90.0
36		82.2	90.0	90.0
42		77.6	90.0	90.0
48		73.4	90.0	90.0
52		70.9	89.2	90.0
30	138	74.1	90.0	90.0
36		69.8	90.0	90.0
42		66.0	86.7	90.0
48		62.6	82.6	90.0
50		61.5	81.4	90.0
30	144	63.6	86.9	90.0
36		60.0	82.5	90.0
42		56.8	78.5	90.0
48		53.9	74.8	90.0



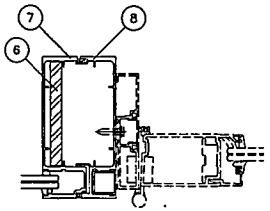
54	126	89.6	90.0	90.0
57		87.5	90.0	90.0
30	126	90.0	90.0	90.0
36		90.0	90.0	90.0
42		86.4	90.0	90.0
48		81.7	90.0	90.0
54		77.4	90.0	90.0
30	132	81.8	90.0	90.0
36		77.0	90.0	90.0
42		72.7	90.0	90.0
48		68.8	90.0	90.0
52		66.5	90.0	90.0
30	138	69.4	90.0	90.0
36		65.4	90.0	90.0
42		61.8	89.2	90.0
48		58.6	84.6	90.0
50		57.7	83.1	90.0
30	144	59.6	85.9	90.0
36		56.2	81.1	90.0
42		53.2	76.7	90.0
48		50.5	72.9	90.0

LAMINATED GLASS MULLIONS



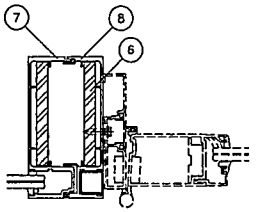
MULLION 'MD1'

Ix IN^4	Sx IN^3
15.385	4.546



MULLION 'MD2'

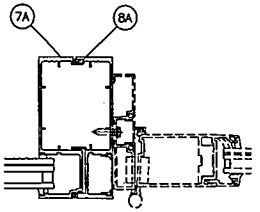
	Ix IN^4	Sx IN^3
ALUMINUM	15.385	4.546
STEEL	3.797	1.6875
TOTAL Ix ALUM + Ix STL X 2.9	26.396	



MULLION 'MD3'

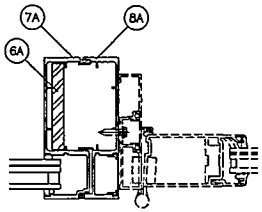
	Ix IN^4	Sx IN^3
ALUMINUM	15.385	4.546
STEEL	7.594	3.375
TOTAL Ix ALUM + Ix STL X 2.9	37.407	

INSUL. LAM. GLASS MULLIONS



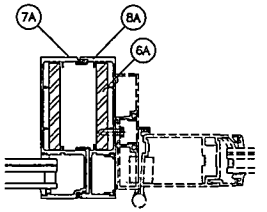
MULLION 'MD1'

Ix IN^4	Sx IN^3
14.414	4.488



MULLION 'MD2'

	Ix IN^4	Sx IN^3
ALUMINUM	14.414	4.488
STEEL	2.197	1.172
TOTAL Ix ALUM + Ix STL X 2.9	20.786	



MULLION 'MD3'

	Ix IN^4	Sx IN^3
ALUMINUM	14.414	4.488
STEEL	4.394	2.344
TOTAL Ix ALUM + Ix STL X 2.9	27.158	

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 17.1218.09
Expiration Date Nov. 1, 2023
By Manuel Perez
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORP
ENGINEERS & PRODUCT DEVE
9360 SUNSET DRIVE, SUITE 2
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX.

SERIES 7100 ALUM WINDOW WALL SYSTEM (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

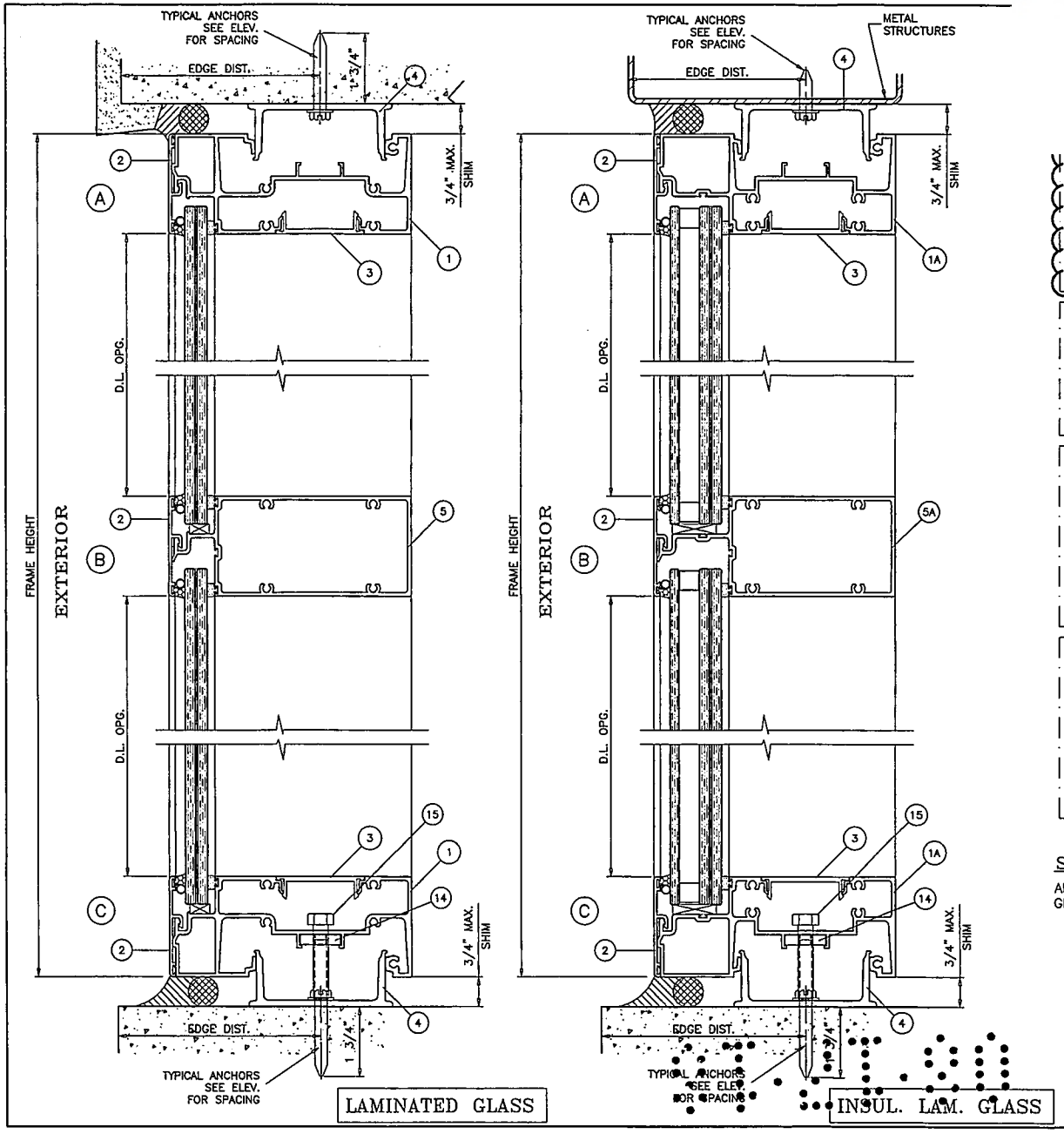
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B	04.03.15		UPDATED TO 2014 FBC
C	07.28.15		NO CHANGE THIS SHEET
D	11.01.17		UPDATED TO 2017 FBC

date: 09-12-12
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. W12-5148

sheet 6 of 13

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE



TYPE 'A'

1/4" DIA ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

DIRECTLY INTO CONCRETE (3000 PSI MIN.)
WITH 1-3/4" MIN. EMBED INTO CONC.

ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-1/2" MIN.

TYPE 'B'

5/16" DIA ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

DIRECTLY INTO CONCRETE (3000 PSI MIN.)
WITH 2" MIN. EMBED INTO CONC.

ANCHOR EDGE DISTANCES

INTO CONCRETE = 3-1/8" MIN.

TYPE 'C'

#14 SMS OR SELF DRILLING SCREWS ST/ST (Fu=100 KSI, Fy=65 KSI)

INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1" MIN.

TYPE 'D'

#14 SMS OR SELF DRILLING SCREWS ST/ST (Fu=100 KSI, Fy=65 KSI)

INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 1/4" THK. MIN. (6063-T5 MIN.)
STEEL: 1/4" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1" MIN.

SEALANTS:

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 17-1218.09
Expiration Date Nov. 7, 2023
By Miami Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPO
ENGINEERS & PRODUCT DEVEL
9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (3

SERIES 7100 ALUM WINDOW WALL SYSTEM (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL (305) 638-5151 FAX. (305) 638-5158

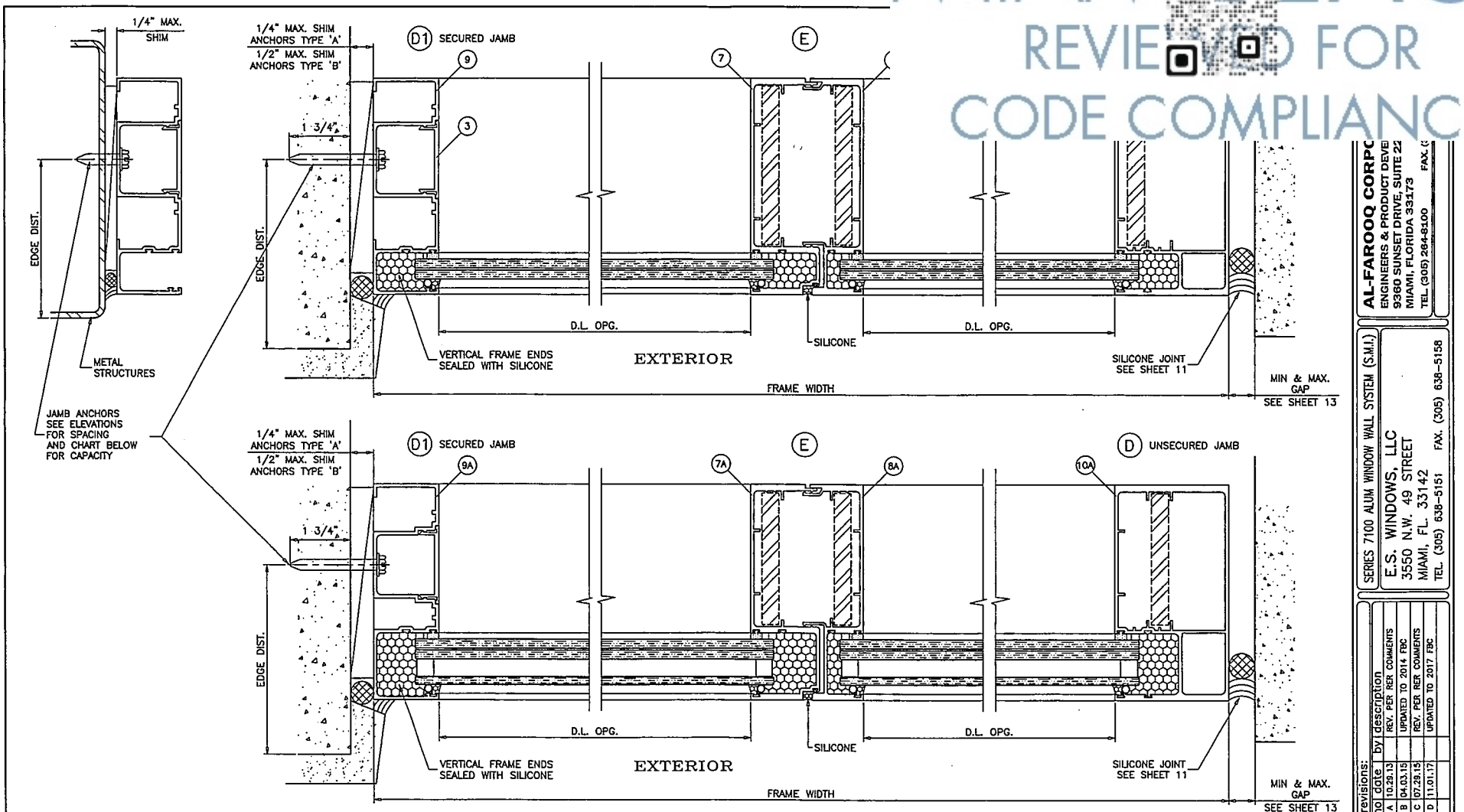
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B	04.03.15		UPDATED TO 2014 FBC
C	07.28.15		REV. PER RER COMMENTS
D	11.01.17		UPDATED TO 2017 FBC

date: 04-14-13
scale: 3/8" = 1'
dr. by: TARO
chk. by:

drawing no.
W12-51
49

sheet 7 of 13

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



JAMB ANCHORS DESIGN LOAD CAPACITY – PSF

WIDTH (W)	1/4" MAX. SHIM SPACE ANCHORS 'A', 'B' & 'C' EXT.(+) INT.(–)	3/8" MAX. SHIM SPACE ANCHORS 'A' EXT.(+) INT.(–)	3/8" MAX. SHIM SPACE ANCHORS 'B' EXT.(+) INT.(–)	1/2" MAX. SHIM SPACE ANCHORS 'A' EXT.(+) INT.(–)	1/2" MAX. SHIM SPACE ANCHORS 'B' EXT.(+) INT.(–)
36"	150.0	123.4	150.0	96.3	150.0
42"	150.0	105.8	150.0	82.5	150.0
48"	150.0	92.5	150.0	72.2	137.1
54"	150.0	82.3	150.0	64.2	121.8
60"	150.0	74.0	139.3	57.8	109.7

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Miami Dade Product Control

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SERIES 7100 ALUM WINDOW WALL SYSTEM (S.M.I.)

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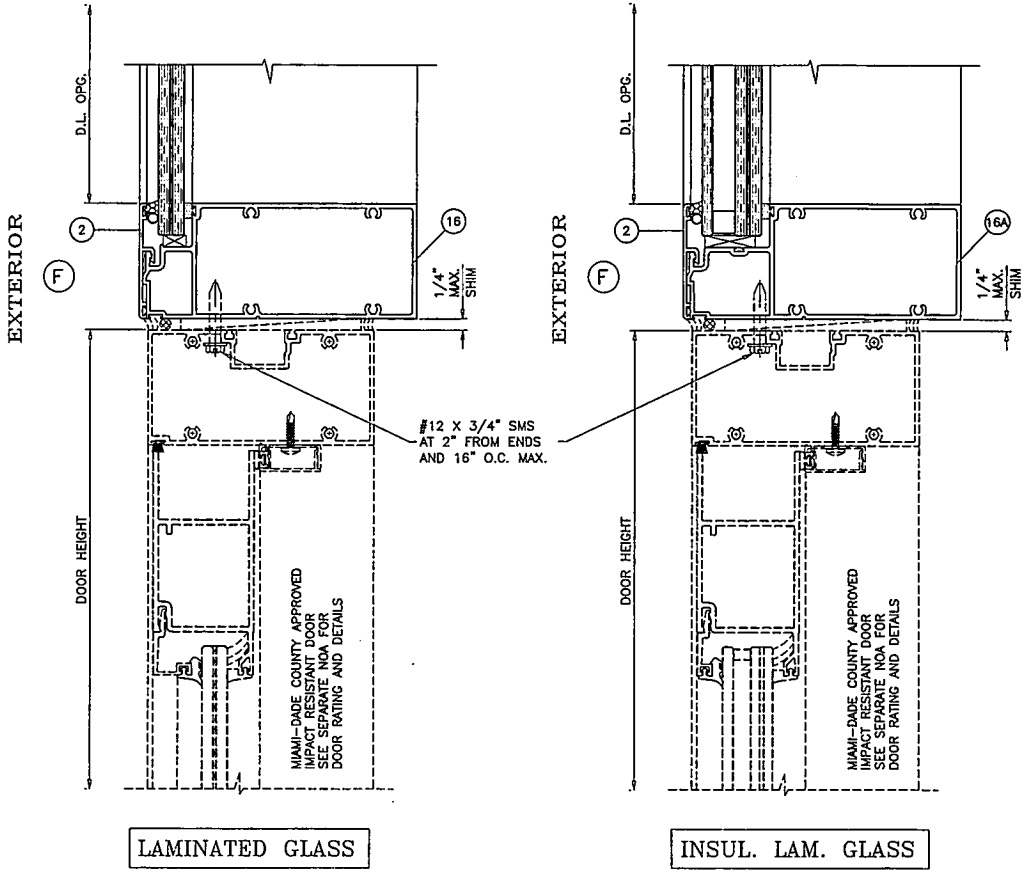
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dr. by: TARIQ
chk. by:

drawing no.
W12-51
sheet 8 of 13

MIAMIREACH
REVIEWED FOR
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LAMINATED GLASS

INSUL. LAM. GLASS

LOWER VALUES FROM DOORS NOA OR WINDOWALL SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.

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JAVAD AHMAD
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91.11.90

END

AL-FAROOQ CORP
ENGINEERS & PRODUCT DEVE
9360 SUNSET DRIVE, SUITE 22
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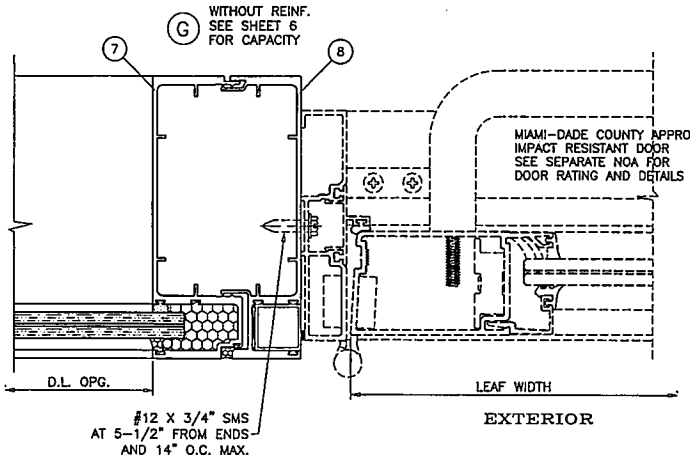
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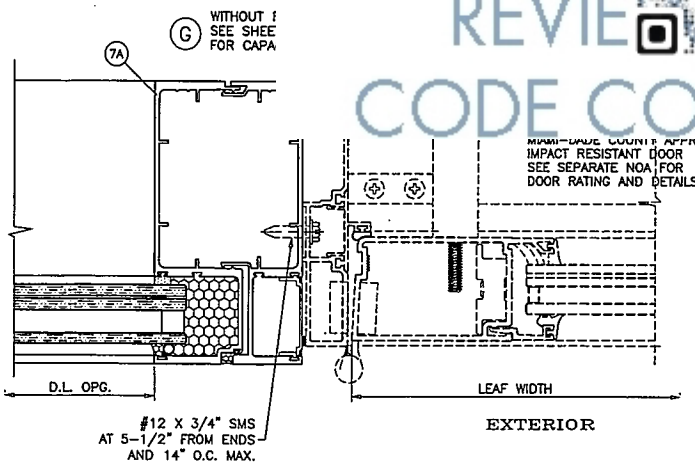
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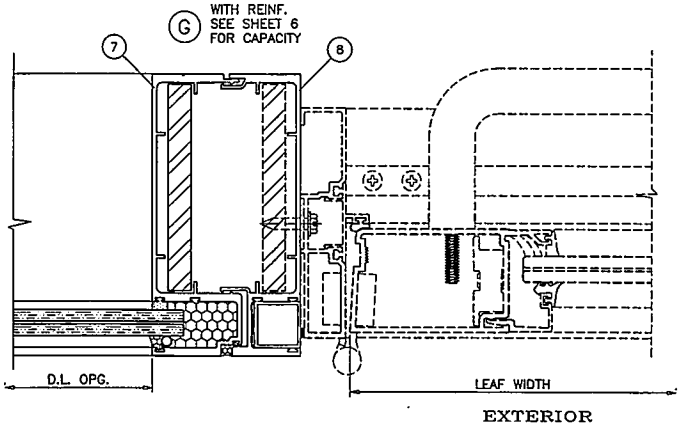
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sheet 9 of 13

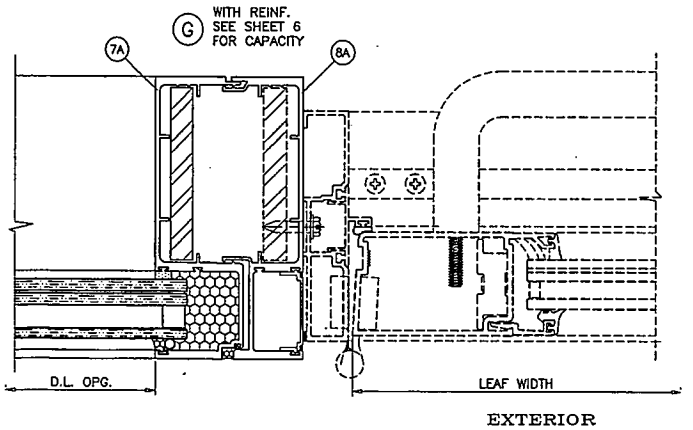
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE







LAMINATED GLASS



INSUL. LAM. GLASS

SEE SEPARATE NOA FOR DESIGN LOAD CAPACITY OF DOORS AND DOOR ANCHORS. LOWER VALUES FROM DOORS NOA OR WINDOWALL SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-1218.09
Expiration Date Nov. 1, 2023
By Manuel Perez
Miami Dade Product Control

JAVAD AHMAD
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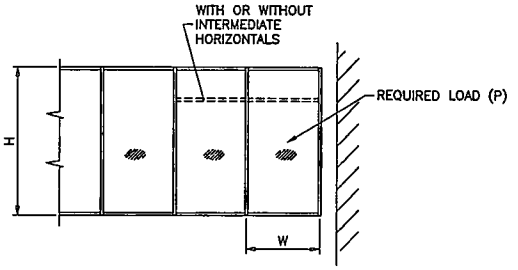
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dr. by: TARIQ
chk. by:

drawing no.
W12-51
sheet 10 of 13

END

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

UNANCHORED JAMB DEFLECTION AT 100 PSF DESIGN WIND PRESSURE DEFLECTION – IN. (CHART D100)					
NOMINAL DIMS.		LAM. GLASS		INSUL. LAM. GLASS	
WIDTH (W)	FRAME HEIGHT	UNREINF.	REINF.	UNREINF.	REINF.
30"	96"	.079	.045	.081	.056
36"		.095	.054	.097	.067
42"		.110	.063	.114	.078
48"		.126	.072	.130	.090
54"		.142	.081	.146	.101
60"		.158	.090	.162	.112
30"	102"	.100	.057	.103	.071
36"		.121	.069	.124	.086
42"		.141	.080	.145	.100
48"		.161	.092	.165	.114
54"		.181	.103	.186	.128
60"		.201	.115	.207	.143
30"	108"	.126	.072	.130	.090
36"		.152	.086	.156	.108
42"		.177	.101	.182	.126
48"		.202	.115	.208	.144
54"		.227	.130	.234	.161
60"		.253	.144	.260	.179
30"	114"	.157	.089	.161	.111
36"		.188	.107	.194	.134
42"		.220	.125	.226	.156
48"		.251	.143	.258	.178
54"		.282	.161	.290	.200
60"		.314	.179	.323	.223
30"	120"	.192	.110	.198	.137
36"		.231	.132	.238	.164
42"		.269	.154	.277	.191
48"		.308	.176	.317	.219
57"		.365	.198	.376	.260
30"	126"	.234	.133	.241	.166
36"		.281	.160	.289	.199
42"		.328	.187	.337	.233
48"		.374	.213	.385	.266
54"		.421	.240	.433	.299
30"	132"	.282	.161	.290	.200
36"		.338	.193	.348	.240
42"		.395	.225	.406	.280
48"		.451	.257	.464	.320
52"		.488	.278	.503	.347
30"	138"	.337	.192	.346	.239
36"		.404	.230	.416	.287
42"		.471	.269	.485	.335
48"		.539	.307	.554	.383
30"	144"	.399	.228	.411	.284
36"		.479	.273	.493	.340
42"		.559	.319	.575	.397
48"		.639	.364	.657	.454



UNANCHORED JAMBS MOVEMENT AND JOINT SEALANT DETERMINATION CHART D100 AT LEFT TO BE USED TO DETERMINE JAMB DEFLECTION AT 100 PSF DESIGN WIND PRESSURE FOR ANY OF THE POSSIBLE UNANCHORED CONDITIONS.
THIS VALUE CAN BE USED TO DETERMINE THE ACTUAL PROJECT DEFLECTION USING INSTRUCTIONS SHOWN BELOW.
USING GAP/DEFLECTION CHART DETERMINE THE MAX. DEFLECTION ALLOWED FOR THE GAPS SHOWN FOR TWO SEALANT TYPES.

INSTRUCTIONS: TO OBTAIN DEFLECTION AT PROJECT (Pd)

1. DETERMINE APPLICABLE JAMB (UNREINFORCED OR REINFORCED)
2. OBTAIN REQUIRED DESIGN WIND PRESSURE.
3. READ DEFLECTION AT 100 PSF (D100) FROM CHART AT LEFT.
4. OPTAIN PROJECT DEFLECTION (PD)

$$PD = \frac{P}{100} \times D100$$

(PD MUST NOT EXCEED L/180)

5. FROM CHART BELOW DETERMINE MAX. DEFLECTION ALLOWABLE FOR A GIVEN PROJECT GAP AND SEALANT TYPE.

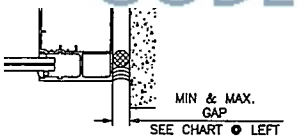
GAP/DEFL. CHART	
GAP. IN.	MAX. DEFL.
.250"	.433"
.375"	.649"
.500"	.800"
.625"	.800"
.750"	.800"
1.000"	.800"

MAXIMUM GAP = 1"
MINIMUM GAP = 1/4"

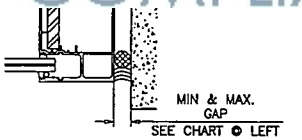
EXAMPLE:
FOR A GAP OF 1/2"
MAX. DEFLECTION ALLOWED = .800" FOR 100% STRETCH SEALANT

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

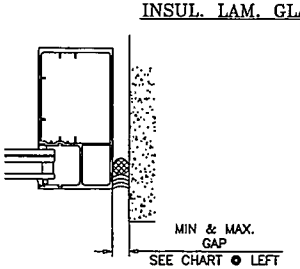


Ix IN^4	Sx IN^3
14.6111	4.6414

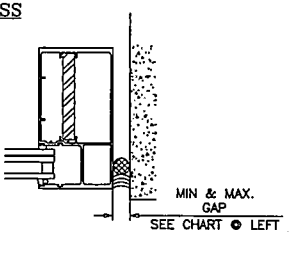


	Ix IN^4	Sx IN^3
ALUMINUM	14.6111	4.6414
STEEL	3.797	1.687
TOTAL Ix ALUM + Ix STL X 2.9	25.622	

INSUL. LAM. GLASS



Ix IN^4	Sx IN^3
14.1989	4.5744



	Ix IN^4	Sx IN^3
ALUMINUM	14.1989	4.5744
STEEL	2.197	1.172
TOTAL Ix ALUM + Ix STL X 2.9	20.571	

NOTE:
DATA IN THIS SHEET MAY BE USED TO QUALIFY SEALANT TO BE USED AT UNANCHORED JAMBS.
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOW WALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 17-1218.09
Expiration Date Nov. 1, 2023
By Miami Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPO
ENGINEERS & PRODUCT DEVEL
9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (3

SERIES 7100 ALUM WINDOW WALL SYSTEM (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

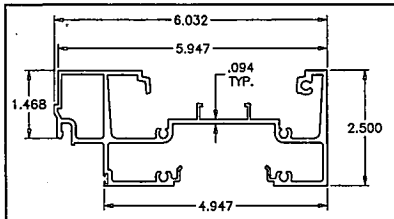
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C	07.29.15		NO CHANGE THIS SHEET
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date: 09-12-12
scale: NONE
dr. by: TARIQ
chk. by:

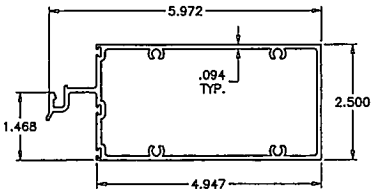
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W12-51
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sheet 11 of 13

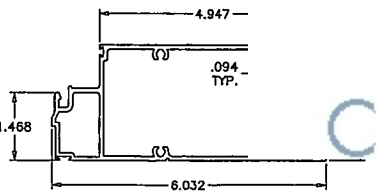
MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE



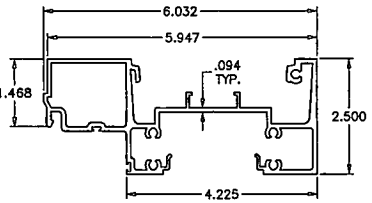
① FRAME HEAD/SILL (LAM. GLASS)



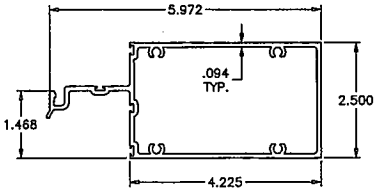
⑤ INTERMEDIATE HORIZONTAL (LAM. GLASS)



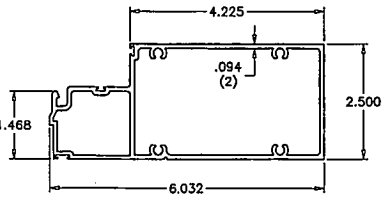
⑯ TRANSOM MULLION (LAM. GLASS)



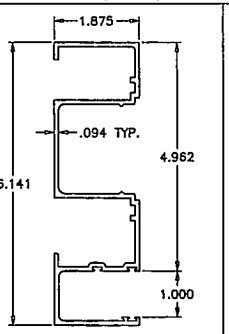
⑴A FRAME HEAD/SILL (LAM. INSUL. GLASS)



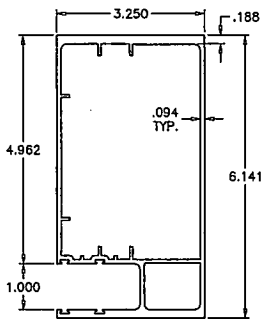
⑤A INTERMEDIATE HORIZONTAL (LAM. INSUL. GLASS)



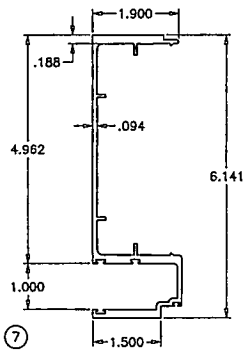
⑯A TRANSOM MULLION (LAM. INSUL. GLASS)



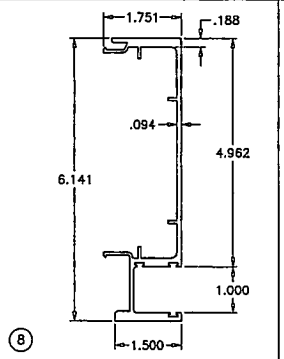
⑨ SECURED JAMB (LAM. GLASS)



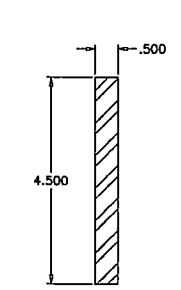
⑩ UNSECURED JAMB (LAM. GLASS)



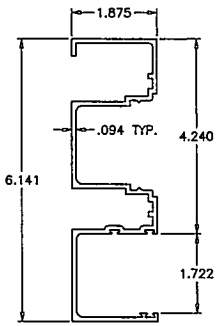
⑦ MALE MULLION (LAM. GLASS)



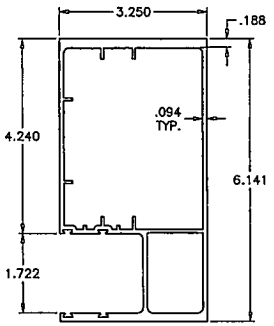
⑧ FEMALE MULLION (LAM. GLASS)



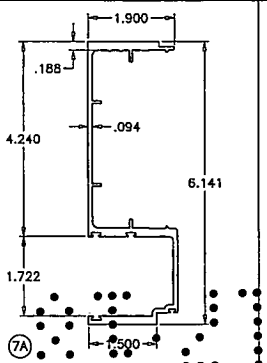
⑥ REINF. BAR (LAM. GLASS)



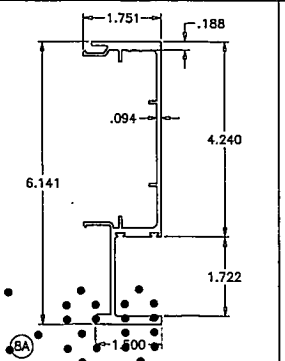
⑨A SECURED JAMB (LAM. INSUL. GL.)



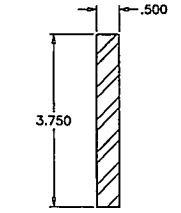
⑩A UNSECURED JAMB (LAM. INSUL. GL.)



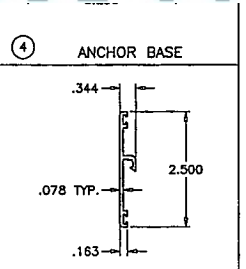
⑦A MALE MULLION (LAM. INSUL. GL.)



⑧A FEMALE MULLION (LAM. INSUL. GL.)

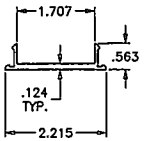


⑥A REINF. BAR (LAM. INSUL. GLASS)



④ ANCHOR BASE

② GLAZING STOP



③ SNAP COVER

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 17-1218.09
Expiration Date Nov. 7, 2023
By Manuel Perez
Miami Dade Product Control

JAVAD AHMAD
LICENSE
No. 70582
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPC
ENGINEERS & PRODUCT DEVE
9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX.

SERIES 7100 ALUM WINDOW WALL SYSTEM (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:			
no	date	by	description
A	10.29.13		NO CHANGE THIS SHEET
B	04.03.15		UPDATED TO 2014 FBC
C	07.29.15		NO CHANGE THIS SHEET
D	11.01.17		UPDATED TO 2017 FBC

date: 09-12-12
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. W12-51
sheet 12 of 13

END

MIAMIREACH
REVIEWED FOR
CODE COMPLIANCE

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTI		
1	ES7001B	AS REQD.	FRAME HEA		
1A	ES7021B	AS REQD.	FRAME HEA		
2	ES7006	AS REQD.	GLAZING ST		
3	ES7003	AS REQD.	SNAP COVE		
4	ES7004	AS REQD.	ANCHOR BA		
5	ES7005	AS REQD.	INTERMEDIA		
5A	ES7022	AS REQD.	INTERMEDIATE HORIZONTAL (INSUL. LAM. GLASS)	6005-T5	–
6	–	AS REQD.	REINFORCING BAR (LAM. GLASS)	STEEL	A36, Fu MIN. = 58 KSI
6A	–	AS REQD.	REINFORCING BAR (INSUL. LAM. GLASS)	STEEL	A36, Fu MIN. = 58 KSI
7	ES7007	AS REQD.	MALE MULLION (LAM. GLASS)	6005-T5	–
7A	ES7023	AS REQD.	MALE MULLION (INSUL. LAM. GLASS)	6005-T5	–
8	ES7008	AS REQD.	FEMALE MULLION (LAM. GLASS)	6005-T5	–
8A	ES7024	AS REQD.	FEMALE MULLION (INSUL. LAM. GLASS)	6005-T5	–
9	ES7009	AS REQD.	SECURED JAMB (LAM. GLASS)	6063-T6	–
9A	ES7025	AS REQD.	SECURED JAMB (INSUL. LAM. GLASS)	6063-T6	–
10	ES7010A	AS REQD.	UNSECURED JAMB (LAM. GLASS)	6005-T5	–
10A	ES7026A	AS REQD.	UNSECURED JAMB (INSUL. LAM. GLASS)	6005-T5	–
11	–	AS REQD.	INTERIOR GASKET	EPDM	DUROMETER 60±5 SHORE A
12	ES7012	AS REQD.	EXTERIOR GLASS SEAL	EPDM	SILICONE DUROMETER 60±5 SHORE A
13	#12 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	–	PH SMS
13A	#14 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	–	PH SMS
14	–	AS REQD.	1/4" X 1" BAR WITH 3/8" THREADED HOLE	ALUMINUM	6063-T5 MIN.
15	3/8" BOLT	AS REQD.	LEVELING SCREW	ST/ST	–
16	–	AS REQD.	TRANSOM MULLION (LAM. GLASS)	6005-T5	–
16A	–	AS REQD.	TRANSOM MULLION (INSUL. LAM. GLASS)	6005-T5	–
17	–	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A

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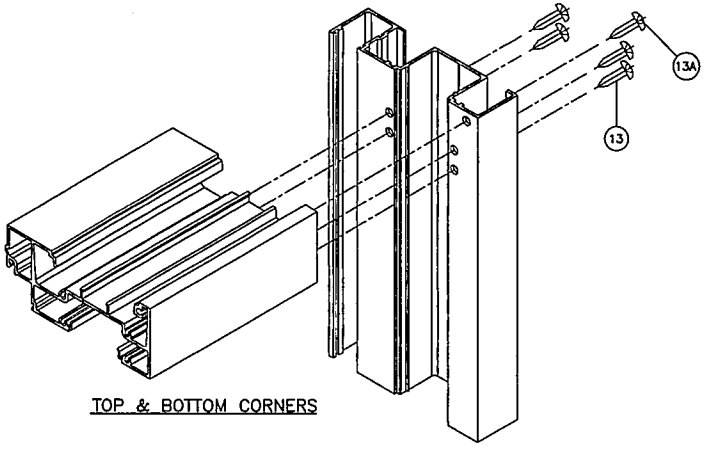
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chk. by:

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sheet 13 of 13

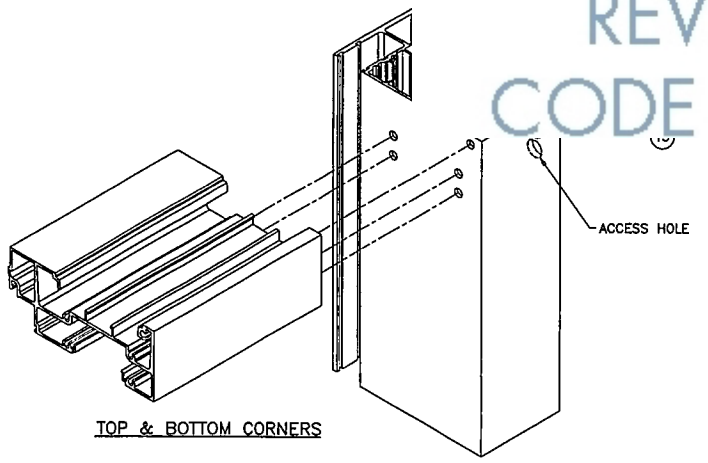
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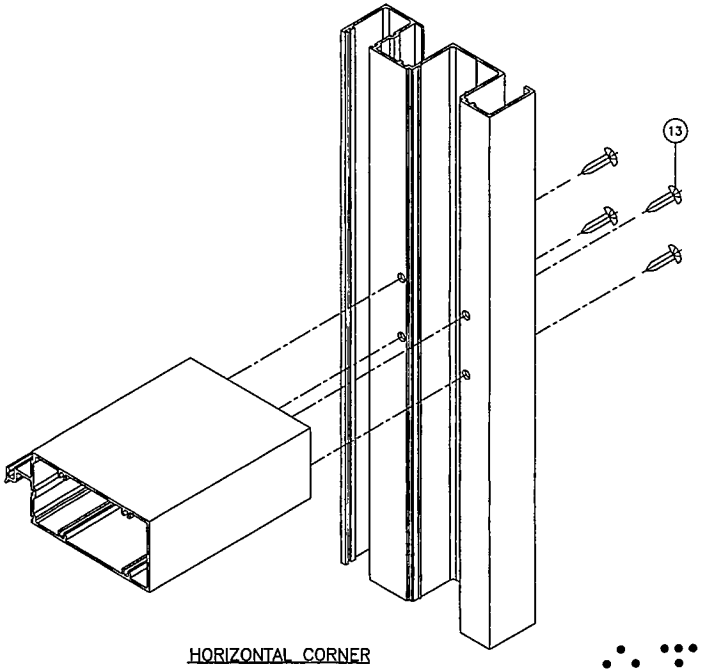
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REVIEWED FOR
CODE COMPLIANCE



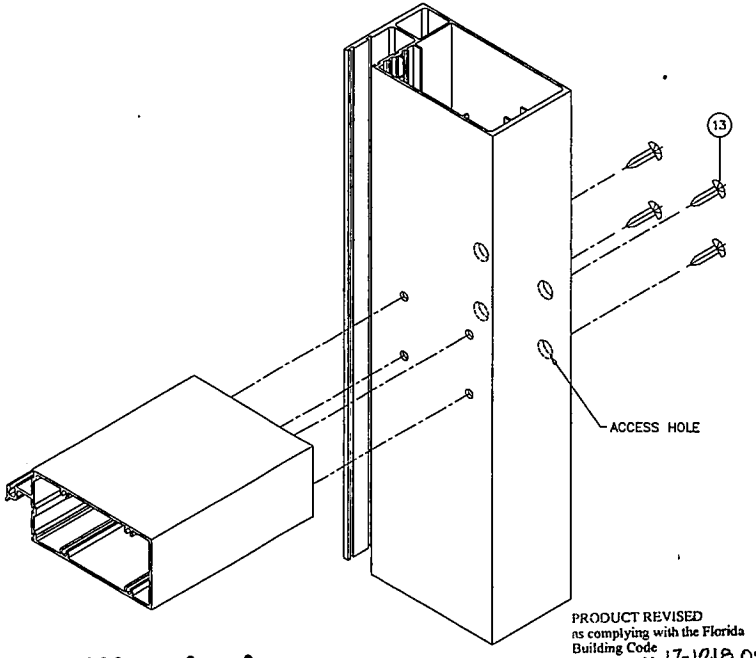
TOP & BOTTOM CORNERS



TOP & BOTTOM CORNERS



HORIZONTAL CORNER



HORIZONTAL CORNER

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 17-1218.09
Expiration Date Dec. 7, 2023
By
Miami-Dade Product Control

JAVAD AHMAD
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PROFESSIONAL ENGINEER

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ENGINEERS & PRODUCT DEVEI
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dr. by: TARIQ
chk. by:

drawing no.
W12-51
56

sheet 13.1 of 13

11.21.20

MIAMI-DADE COUNTY

BC19

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

DEPARTMENT OF REGULATORY AND ECONOMIC RESC
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Tecnoglass, LLC
3550 N. W. 49th Street
Miami, FL 33142

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 "2400 ST" Aluminum Sliding Glass Door – S.M.I.

APPROVAL DOCUMENT: Drawing No. **W01–54 Rev R**, titled "Series–2400ST Alum. Sld. Glass Door (S.M.I.)", sheets 1 through 10 of 10, prepared by Al–Farooq Corporation, dated 08/17/01 and last revised on NOV 13, 2017, signed and sealed by Javad Ahmad, P. E., bearing the Miami–Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami–Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

1. See Design Pressure VS glass, head, sill or jamb anchors, in sheets 2 & 3 for shim ≤ ¼" and sheet 6 for sheet shim ≥1/4". Lower capacity from glass or head, sill or jamb anchors shall control the entire system.
2. Max span for Free Standing Jamb (un-secured side jamb) not to exceed 120" height.
3. When approved Mullion used as substrate, min=1/8" metal thickness is required

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, **Barranquilla, Colombia S.A.**, 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 **revises NOA No. 16-0309.08** and consists of this page 1, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P. E.**

MIAMI-DADE COUNTY APPROVED

8
5/9/18

NOA No. 17-1115.03
Expiration Date: February 07, 2022
Approval Date: May 17, 2018

57

MIAMI-DADE REVIEWED FOR CODE COMPLIANCE

Tecnoglass, LLC

NOTICE OF ACCEPTANC

1. Evidence submitted under previous app

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under files referenced below)
2. Drawing No. **W01–54 Rev Q**, titled "Series–2400ST Alum. Sld. Glass Door (S.M.I.)", sheets 1 through 10 of 10, prepared by Al–Farooq Corporation, dated MAR 08, 2017, signed and sealed by Javad Ahmad, P. E.

B. TESTS (Submitted under files **#14-0807.15/#12-0202.03/#08-1119.07/#07-1019.01 & 06-0327.05**)

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, TAS 202–94

along with marked–up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL–5718**, dated 09/15/08, **FTL–5719**, dated 09/25/08, **FTL–5723**, dated 10/01/08, **FTL–5677**, dated 09/04/08 and **FTL–5118**, dated 08/28/08, all signed and sealed by Carlos S. Rionda, P. E.

along with marked–up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–5108**, dated 02/02/07, signed and sealed by Michael Wenzel, P. E.

along with marked–up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Reports No.'s **FTL–4895**, dated 08/23/06, **FTL–4993**, dated 06/16/05, all signed and sealed by Edmundo J. Largaespada, P. E.

along with marked–up drawings and installation diagram of an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–3106**, dated 08/08/01, signed and sealed by Luis Figueredo, P. E.

2. Test report on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202–94,
   2) Small 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 an aluminum sliding glass door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL–4615**, dated 06/16/05, signed and sealed by Edmundo J. Largaespada, P. E.

B. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2014 (5th Edition), prepared by Al Farooq Corporation, dated 12/16/15 and last revised on FEB 20, 2017, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with ASTM E1300-2, 04 &-09

D. QUALITY ASSURANCE

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

Ishaq I. Chanda

Ishaq I. Chanda, P. E.
Product Control Examiner
NOA No. 17-1115.03
Expiration Date: February 07, 2022
Approval Date: May 17, 2018

MIAMI-DADE REVIEWED FOR CODE COMPLIANCE

NOTICE OF ACCEPTANC

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** i Nemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/17.
2. Notice of Acceptance No. **16-1117.01** issued to Kuraray America, Inc. (former E.I. DuPont DE Nemours & Co., Inc.) for "**Trosifol :Ultra clear, clear and color PVB glass Interlayer**"(former Kuraray **Butacite** PVB Interlayer), expiring on 07/08/2019.
3. Notice of Acceptance No. **15-1201.11** issued to Eastman Chemical Company (MA) former Solutia Inc. for their "**Saflex Clear or colored interlayer**", expiring on 05/21/21.

F. STATEMENTS

1. Statement letter of conformance to FBC 2014 (5th Edition), signed and sealed by Javad Ahmad, P. E.
2. Distribution agreement dated 02/17/17 between Energia Solar, SA, Columbia and Tecnoglass, LLC (USA), signed by MS. Carla Garcia, Int'l Sales Manager and MS. Evelyn Daes, General Manager on behalf of their respective companies.
3. Asset purchase agreement dated 06/19/14, signed by Mr. Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc. and Mr. José M. Daes, for and on behalf of Tecnoglass, LLC (submitted under file **#14-0807.15**).
4. Statement letter dated 07/15/14, issued by R.C. Aluminum Industries, Inc. of sales of asset and relinquishing of all rights of NOA No. **12–0202.03**, signed by Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.
5. Department of State Certification of **TECNOGLASS, LLC** as a limited liability company, active and organized under the laws of the State of Florida, dated 03/03/14 and signed by Ken Detzner, Secretary of State.
6. Statement of lab compliance, part of the above test reports,

G. OTHERS

1. This NOA **revises NOA No. 14-0807.15,** expiring 02/17/22.
2. Notice of Acceptance No. **12–0202.03**, issued to R. C. Aluminum Industries, Inc., for their Series "**2400ST Aluminum Sliding Glass Door – S.M.I.**", approved on 05/17/12 and expiring on 02/07/17.

2. New Evidence submitted.

A. DRAWINGS

1. Drawing No. **W01–54 Rev R**, titled "Series–2400ST Alum. Sld. Glass Door (S.M.I.)", sheets 1 through 10 of 10, prepared by Al–Farooq Corporation, dated 08/17/01 and last revised on NOV 13, 2017, signed and sealed by Javad Ahmad, P. E.

B. TESTS

1. None.

Ishaq I. Chanda

Ishaq I. Chanda, P. E.
Product Control Examiner
NOA No. 17-1115.03
Expiration Date: February 07, 2022
Approval Date: May 17, 2018

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

NOTICE OF ACCEPTANC

C. CALCULATIONS

1. Anchor verification calculations comply
   Corporation, dated NOV 09, 2017 and last revised on APR 11, 2018, signed and sealed by Javad Ahmad, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the "**Sentry Glass ® Interlayer**", expiring on 07/4/18.
2. Notice of Acceptance No. **16-1117.01** issued to **Kuraray America, Inc.** (Former E.I. DuPont DE Nemours & Co., Inc. for the "**Trofosil ® (Clear and Ultra clear) PVB Glass interlayers**", expiring on 07/08/19.

F. STATEMENTS

1. Statement letter of conformance to **FBC 6th Edition (2017)** and of no financial interest, prepared by Al Farooq Corporation, dated 04/11/18, signed and sealed by Javad Ahmad, P.E.

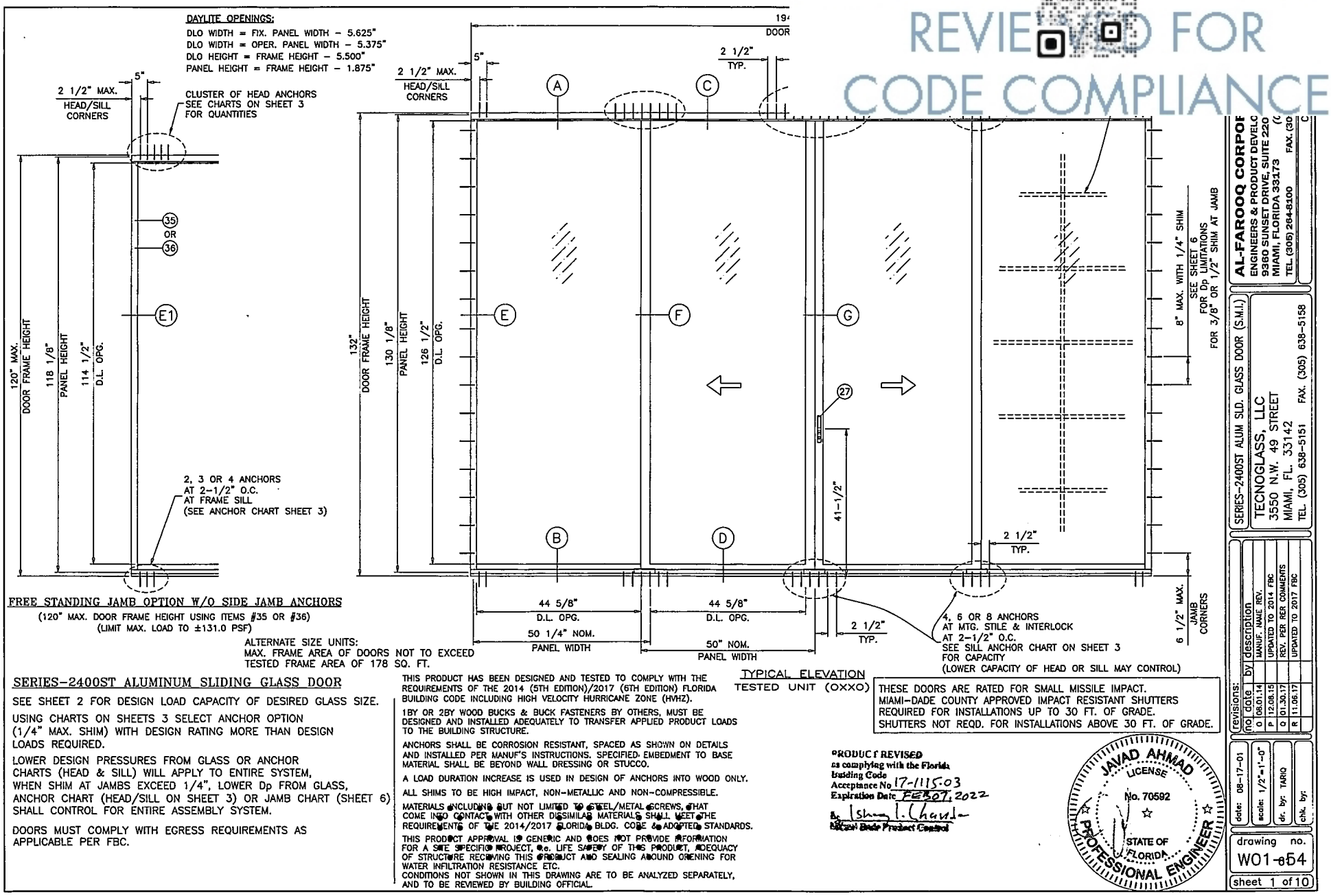
G. OTHER

1. This NOA **revises NOA # 16-0309.08**, expiring 02/17/2022.
2. E-mail correspondence from RER to Tecnoglass, LLC dated 02/05/18, 02/09/18 and May 08, 2018, in referenced to unsigned Bill of Sales.

Ishaq I. Chanda

Ishaq I. Chanda, P. E.
Product Control Examiner
NOA No. 17-1115.03
Expiration Date: February 07, 2022
Approval Date: May 17, 2018

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE



FREE STANDING JAMB OPTION W/O SIDE JAMB ANCHORS

(120" MAX. DOOR FRAME HEIGHT USING ITEMS #35 OR #36)
(LIMIT MAX. LOAD TO ±131.0 PSF)

ALTERNATE SIZE UNITS:
MAX. FRAME AREA OF DOORS NOT TO EXCEED TESTED FRAME AREA OF 178 SQ. FT.

TYPICAL ELEVATION
TESTED UNIT (OXXO)

SERIES–2400ST ALUMINUM SLIDING GLASS DOOR

SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

USING CHARTS ON SHEETS 3 SELECT ANCHOR OPTION (1/4" MAX. SHIM) WITH DESIGN RATING MORE THAN DESIGN LOADS REQUIRED.

LOWER DESIGN PRESSURES FROM GLASS OR ANCHOR CHARTS (HEAD & SILL) WILL APPLY TO ENTIRE SYSTEM, WHEN SHIM AT JAMBS EXCEED 1/4", LOWER Dp FROM GLASS, ANCHOR CHART (HEAD/SILL ON SHEET 3) OR JAMB CHART (SHEET 6) SHALL CONTROL FOR ENTIRE ASSEMBLY SYSTEM.

DOORS MUST COMPLY WITH EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION)/2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON–METALLIC AND NON–COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2014/2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
MIAMI–DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

*PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 17-1115.03
Expiration Date FEB07, 2022
By: Shiraz I. Chavda
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPOR
ENGINEERS & PRODUCT DEVELO
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (30

SERIES–2400ST ALUM SLD. GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5151 FAX. (305) 638–5158

revisions:			
no	date	by	description
0	08.01.14		MANUF. NAME REV.
P	12.08.15		UPDATED TO 2014 FBC
Q	01.30.17		REV. PER RER COMMENTS
R	11.06.17		UPDATED TO 2017 FBC

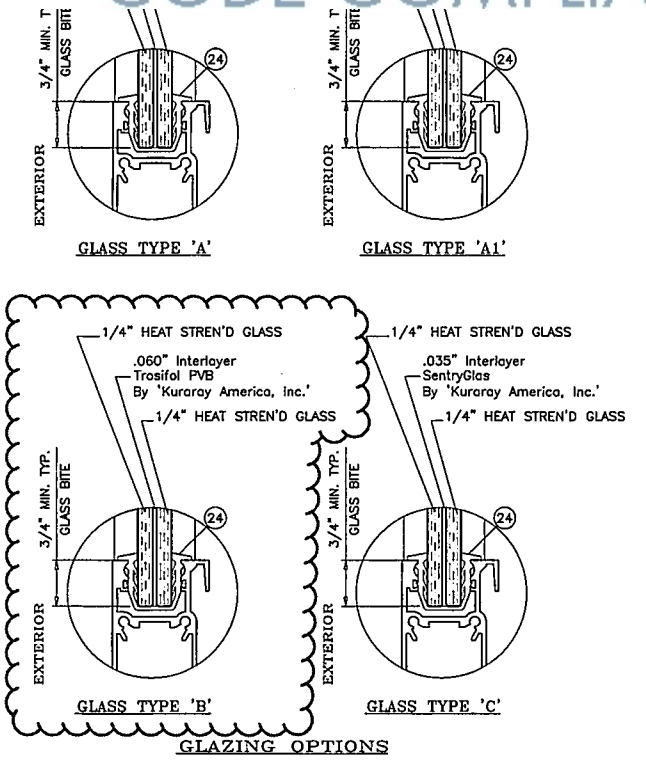
date: 08–17–01
scale: 1/2"=1'–0"
dr. by: TARIQ
chk. by:
drawing no. W01-654
sheet 1 of 10

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

DESIGN LOAD CAPACITY – PSF									
PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPE 'A'		GLASS TYPE 'A1'		GLASS TYPE 'B'		GLASS TYPE 'C'	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
30	96	131.0	142.0	131.0	131.0	120.0	120.0	131.0	131.0
36		131.0	142.0	131.0	131.0	120.0	120.0	131.0	131.0
42		131.0	142.0	131.0	131.0	120.0	120.0	131.0	131.0
48		–	–	131.0	131.0	120.0	120.0	131.0	131.0
54		–	–	117.8	117.8	106.7	106.7	117.8	117.8
60		–	–	106.0	106.0	96.0	96.0	106.0	106.0
30	102	131.0	142.0	131.0	131.0	120.0	120.0	131.0	131.0
36		131.0	142.0	131.0	131.0	120.0	120.0	131.0	131.0
42		131.0	142.0	131.0	131.0	120.0	120.0	131.0	131.0
48		–	–	131.0	131.0	120.0	120.0	131.0	131.0
54		–	–	117.8	117.8	106.7	106.7	117.8	117.8
60		–	–	–	–	96.0	96.0	97.1	97.1
30	103–3/8	131.0	142.0	131.0	131.0	120.0	120.0	131.0	131.0
36		131.0	142.0	131.0	131.0	120.0	120.0	131.0	131.0
42		131.0	142.0	131.0	131.0	120.0	120.0	131.0	131.0
44		131.0	142.0	131.0	131.0	120.0	120.0	131.0	131.0
30	108	–	–	131.0	131.0	120.0	120.0	131.0	131.0
36		–	–	131.0	131.0	120.0	120.0	131.0	131.0
42		–	–	131.0	131.0	120.0	120.0	131.0	131.0
48		–	–	131.0	131.0	120.0	120.0	131.0	131.0
54		–	–	–	–	106.7	106.7	107.9	107.9
30	114	–	–	131.0	131.0	120.0	120.0	131.0	131.0
36		–	–	131.0	131.0	120.0	120.0	131.0	131.0
42		–	–	131.0	131.0	120.0	120.0	131.0	131.0
48		–	–	131.0	131.0	120.0	120.0	131.0	131.0
54		–	–	–	–	106.7	106.7	107.9	107.9
30	119–1/2	–	–	131.0	131.0	120.0	120.0	131.0	131.0
36		–	–	131.0	131.0	120.0	120.0	131.0	131.0
42		–	–	131.0	131.0	120.0	120.0	131.0	131.0
48		–	–	131.0	131.0	120.0	120.0	131.0	131.0
30	120	–	–	–	–	120.0	120.0	131.0	131.0
36		–	–	–	–	120.0	120.0	131.0	131.0
42		–	–	–	–	120.0	120.0	131.0	131.0
48		–	–	–	–	120.0	120.0	131.0	131.0
30	126	–	–	–	–	120.0	120.0	120.0	120.0
36		–	–	–	–	120.0	120.0	120.0	120.0
42		–	–	–	–	120.0	120.0	120.0	120.0
48		–	–	–	–	120.0	120.0	120.0	120.0
30	132	–	–	–	–	120.0	120.0	120.0	120.0
36		–	–	–	–	120.0	120.0	120.0	120.0
42		–	–	–	–	120.0	120.0	120.0	120.0
48		–	–	–	–	120.0	120.0	120.0	120.0

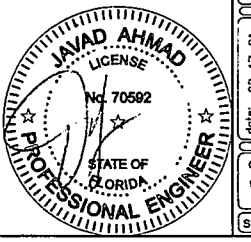
NOTE:
FOR DOORS WITH FREE STANDING JAMBS (UNANCHORED JAMBS)
LIMIT MAX. DOOR FRAME HEIGHTS TO 120 IN.
AND MAX. DESIGN LOADS TO 131.0 PSF.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300–09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05–DEC–219



GLAZING OPTIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1115.03
Expiration Date 2/17/22
By: Ishaq I. Chanda
Miami-Dade Product Control



AL-FAROOQ CORPO
ENGINEERS & PRODUCT DEVEL
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (30

SERIES–2400ST ALUM SLD. GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5151 FAX. (305) 638–5158

revisions:			
no	date	by	description
O	08.01.14		MANUF. NAME REV.
P	12.08.15		UPDATED TO 2014 FBC
Q	01.30.17		REV. PER RER COMMENTS
R	11.06.17		UPDATED TO 2017 FBC

date: 08–17–01
scale: 1/2"=1'–0"
dr. by: TARIQ
chk. by:

drawing no.
W01–654
sheet 2 of 10

01.31.20

940

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

DESIGN LOAD CAPACITY – PSF (HEAD ANCHORS)

PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	ANCHORS TYPE 'A'				ANCHORS TYPE 'B'			ANCHORS TYPE 'C'		
		2 ANCHORS AT FREE STAND. JAMB	3 ANCHORS AT FREE STAND. JAMB	4 ANCHORS AT FREE STAND. JAMB	5 ANCHORS AT FREE STAND. JAMB	2 ANCHORS AT FREE STAND. JAMB	3 ANCHORS AT FREE STAND. JAMB	4 ANCHORS AT FREE STAND. JAMB	2 ANCHORS AT FREE STAND. JAMB	3 ANCHORS AT FREE STAND. JAMB	4 ANCHORS AT FREE STAND. JAMB
		4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	10 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
30	96	115.6	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
36		96.3	142.0	142.0	142.0	122.3	142.0	142.0	130.3	142.0	142.0
42		82.6	123.9	142.0	142.0	104.9	142.0	142.0	111.7	142.0	142.0
48		72.3	108.4	142.0	142.0	91.8	137.6	142.0	97.8	142.0	142.0
54		64.2	96.3	117.8	117.8	81.6	117.8	117.8	86.9	117.8	117.8
60		57.8	86.7	106.0	106.0	73.4	106.0	106.0	78.2	106.0	106.0
30	102	108.8	142.0	142.0	142.0	138.2	142.0	142.0	142.0	142.0	142.0
36		90.7	136.0	142.0	142.0	115.1	142.0	142.0	122.7	142.0	142.0
42		77.7	116.6	142.0	142.0	98.7	142.0	142.0	105.1	142.0	142.0
48		68.0	102.0	136.0	142.0	86.4	129.5	142.0	92.0	138.0	142.0
54		60.4	90.7	117.8	117.8	76.8	115.1	117.8	81.8	117.8	117.8
60		54.4	81.6	106.0	106.0	69.1	103.6	106.0	73.6	106.0	106.0
30	103-3/8	107.4	142.0	142.0	142.0	136.3	142.0	142.0	142.0	142.0	142.0
36		89.5	134.2	142.0	142.0	113.6	142.0	142.0	121.0	138.0	142.0
42		76.7	115.0	142.0	142.0	97.4	142.0	142.0	103.7	122.7	142.0
44		73.2	109.8	142.0	142.0	93.0	139.4	142.0	99.0	110.4	142.0
30	108"	102.8	142.0	142.0	142.0	130.5	142.0	142.0	139.0	142.0	142.0
36		85.6	128.4	142.0	142.0	108.7	142.0	142.0	115.9	142.0	142.0
42		73.4	110.1	142.0	142.0	93.2	139.8	142.0	99.3	142.0	142.0
48		64.2	96.3	128.4	142.0	81.6	122.3	142.0	86.9	130.3	142.0
54		57.1	85.6	114.2	142.0	72.5	108.7	142.0	77.2	115.9	142.0
30	114	97.3	142.0	142.0	142.0	123.6	142.0	142.0	131.7	142.0	142.0
36		81.1	121.7	142.0	142.0	103.0	142.0	142.0	109.8	142.0	142.0
42		69.5	104.3	139.1	142.0	88.3	132.5	142.0	94.1	141.1	142.0
48		60.8	91.3	121.7	142.0	77.3	115.9	142.0	82.3	123.5	142.0
54		54.1	81.1	108.2	142.0	68.7	103.0	142.0	73.2	109.8	142.0
30	119-1/2	92.9	139.3	142.0	142.0	117.9	142.0	142.0	125.6	142.0	142.0
36		77.4	116.1	142.0	142.0	98.3	142.0	142.0	104.7	142.0	142.0
42		66.3	99.5	132.7	142.0	84.2	142.0	142.0	89.7	134.6	142.0
48		58.0	87.1	116.1	142.0	73.7	126.4	142.0	78.5	117.8	142.0
30	120	92.5	131.0	131.0	131.0	117.4	131.0	131.0	125.1	131.0	131.0
36		77.1	115.6	131.0	131.0	97.9	131.0	131.0	104.3	131.0	131.0
42		66.1	99.1	131.0	131.0	83.9	125.8	131.0	89.4	131.0	131.0
48		57.8	86.7	115.6	131.0	73.4	110.1	131.0	78.2	117.3	131.0
30	126	88.1	120.0	120.0	120.0	111.8	120.0	120.0	119.2	120.0	120.0
36		73.4	110.1	120.0	120.0	93.2	120.0	120.0	99.3	120.0	120.0
42		62.9	94.4	120.0	120.0	79.9	119.8	120.0	85.1	120.0	120.0
48		55.0	82.6	110.1	120.0	69.9	104.9	120.0	74.5	111.7	120.0
30	132	84.1	120.0	120.0	120.0	106.8	120.0	120.0	113.7	120.0	120.0
36		70.1	105.1	120.0	120.0	89.0	120.0	120.0	94.8	120.0	120.0
42		60.1	90.1	120.0	120.0	76.3	114.4	120.0	81.2	120.0	120.0
48		52.5	78.8	105.1	120.0	66.7	100.1	120.0	71.1	106.6	120.0

NOTE:
SEE SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
USE CHART ON THIS SHEET TO DETERMINE HEAD OR SILL ANCHOR CAPACITIES.
LOWER DESIGN PRESSURES FROM GLASS, HEAD OR SILL ANCHOR CHARTS WILL APPLY TO ENTIRE SYSTEM WITH 1/4" MAX. SHIM (HEAD/SILL/JAMB).
WHEN SHIM AT JAMB EXCEED 1/4" THE JAMB CHART (SHEET 6) SHALL CONTROL FOR THE ENTIRE ASSEMBLY.
SEE SHEET 5 FOR ANCHOR DESCRIPTION

DESIGN LOAD

PANEL WIDTH NOMINAL INCHES	DOOR FRAME HEIGHT INCHES	STILE ENDS	STILE ENDS	STILE ENDS
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
30	96	142.0	142.0	142.0
36		122.3	142.0	142.0
42		104.9	142.0	142.0
48		91.8	137.6	142.0
54		81.6	117.8	117.8
60		73.4	106.0	106.0
30	102	138.2	142.0	142.0
36		115.1	142.0	142.0
42		98.7	142.0	142.0
48		86.4	129.5	142.0
54		76.8	115.1	117.8
60		69.1	103.6	106.0
30	103-3/8	136.3	142.0	142.0
36		113.6	142.0	142.0
42		97.4	142.0	142.0
48		93.0	139.4	142.0
30	108"	130.5	142.0	142.0
36		108.7	142.0	142.0
42		93.2	139.8	142.0
48		81.6	122.3	142.0
54		72.5	108.7	142.0
30	114	123.6	142.0	142.0
36		103.0	142.0	142.0
42		88.3	132.5	142.0
48		77.3	115.9	142.0
54		68.7	103.0	142.0
30	119-1/2	117.9	142.0	142.0
36		98.3	142.0	142.0
42		84.2	142.0	142.0
48		73.7	126.4	142.0
30	120	117.4	131.0	131.0
36		97.9	131.0	131.0
42		83.9	125.8	131.0
48		73.4	110.1	131.0
30	126	111.8	120.0	120.0
36		93.2	120.0	120.0
42		79.9	119.8	120.0
48		69.9	104.9	120.0
30	132	106.8	120.0	120.0
36		89.0	120.0	120.0
42		76.3	114.4	120.0
48		66.7	100.1	120.0

NOTE:
1. ANCHOR CAPACITY BASED ON MAX. 1/4" SHIMS AT HEAD/SILL AND JAMBS.
2. FREE STANDING JAMB (W/O SIDE JAMB ANCHORS) LIMITED TO 120" MAX. SPAN.

PRODUCT REVISED
to complying with the Florida Building Code
Acceptance No. 17-1115.03
Expiration Date 7/17/22
By: Ishaq I. Chanda
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPOR
ENGINEERS & PRODUCT DEVELC
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (30

SERIES-2400ST ALUM SLD. GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

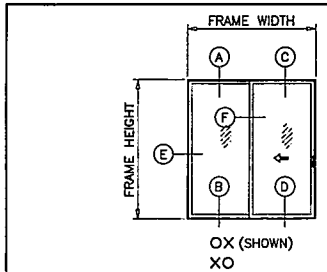
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P	12.08.15	UPDATED TO 2014 FBC
Q	01.30.17	REV. PER PER COMMENTS
R	11.06.17	NO CHANGE THIS SHEET

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dr. by: TARIQ
chk. by:

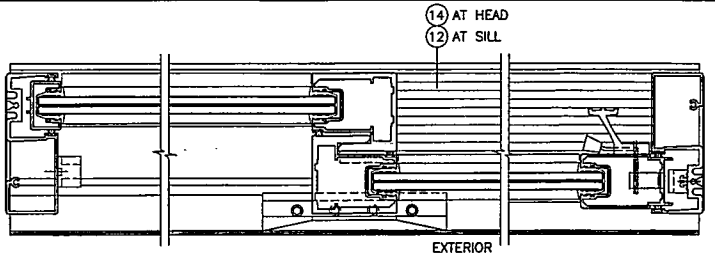
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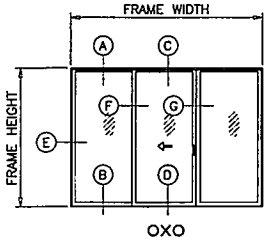
sheet 3 of 10

MIAMI BEACH
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CODE COMPLIANCE

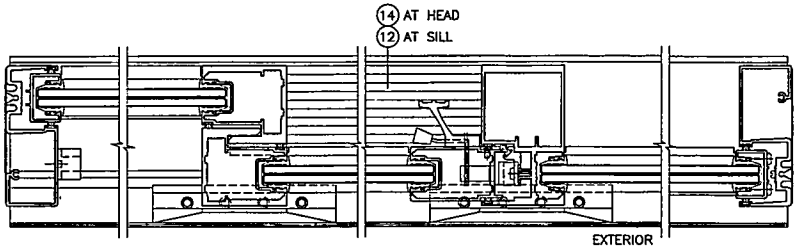


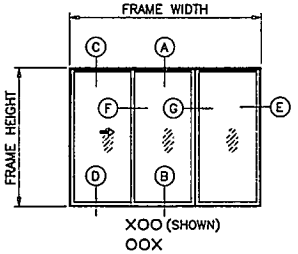
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XO



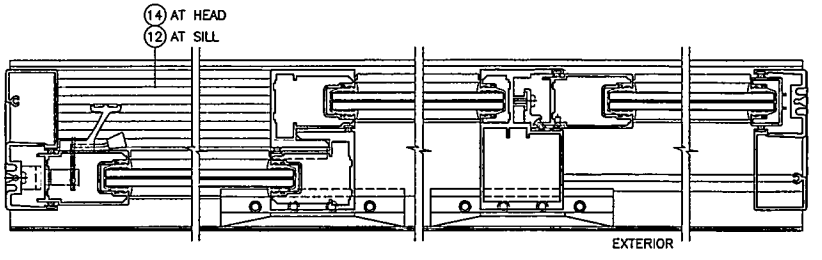


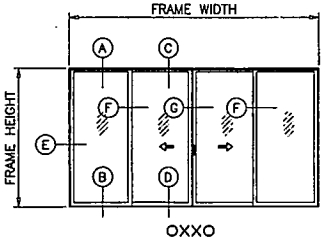
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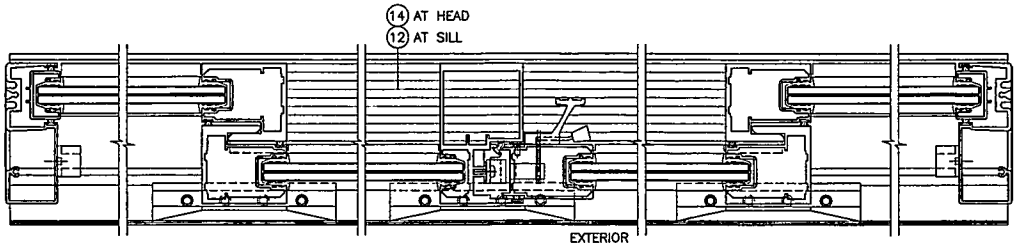


XOO (SHOWN)
OOX





OXXO



APPROVED CONFIGURATIONS
(4 PANELS OR LESS)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1115.03
Expiration Date 2/7/22
By
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70582
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPOI
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9360 SUNSET DRIVE, SUITE 220
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SERIES-2400ST ALUM SLD. GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
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O	06.01.14		MANUF. NAME REV.
P	12.08.15		UPDATED TO 2014 FBC
Q	01.30.17		REV. PER RER COMMENTS
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dr. by: TARIQ
chk. by:

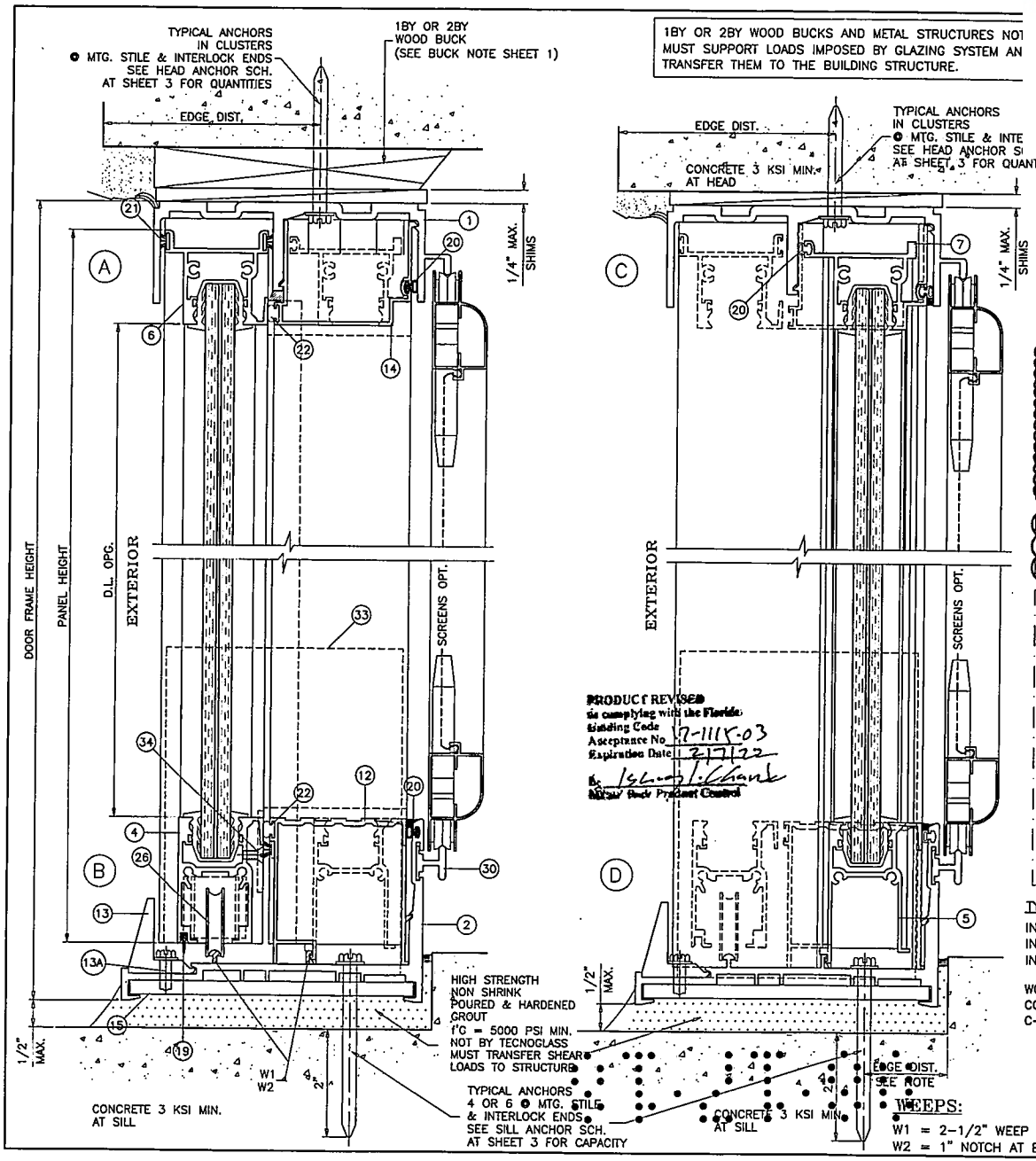
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sheet 4 of 10

91-21-90

9HD

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE



PRODUCT REVISED
to complying with the Florida Building Code
Acceptance No. 17-1114-03
Expiration Date 2/17/22
By: Miami-Dade Product Control

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

TYPE 'A'– 1/4" X 2-3/4" HILTI KWIK-CON II (Fu=138 KSI, Fy=137 KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
1-1/4" MIN. CONCRETE EMBEDMENT

TYPE 'B'– 1/4" X 2-3/4" HILTI KWIK-CON II (Fu=138 KSI, Fy=137 KSI)
DIRECTLY INTO CONCRETE, 2" MIN. EMBEDMENT

TYPE 'C'– 1/4" TEKS OR SELF DRILLING SCREWS (Fu=120 KSI, Fy=92 KSI)
INTO METAL STRUCTURES OR APPROVED MULLIONS
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT SILL

TYPE 'D'– 1/4" DIA HILTI KWIK-CON II (Fu=138 KSI, Fy=137 KSI)
DIRECTLY INTO CONCRETE, 2" MIN. EMBEDMENT

AT JAMBS

1/4" X 2-3/4" HILTI KWIK-CON II (Fu=138 KSI, Fy=137 KSI)
THRU 1BY BUCKS INTO CONCRETE OR MASONRY
1-1/4" MIN. EMBEDMENT INTO CONC. OR FILLED BLOCKS

1/4" X 2-3/4" HILTI KWIK-CON II (Fu=138 KSI, Fy=137 KSI)
INTO 2BY BUCKS OR WOOD STRUCTURE
1-1/2" MIN. PENETRATION INTO WOOD

1/4" X 2-3/4" HILTI KWIK-CON II (Fu=138 KSI, Fy=137 KSI)
DIRECTLY INTO CONCRETE OR MASONRY
2" MIN. EMBEDMENT INTO CONC. OR FILLED BLOCKS

1/4" TEKS OR SELF DRILLING SCREWS (Fu=120 KSI, Fy=92 KSI)
INTO METAL STRUCTURES OR APPROVED MULLIONS
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

WEEPS:
W1 = 2-1/2" WEEP NOTCH AT SILL CENTER
W2 = 1" NOTCH AT EACH END

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPOR
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SERIES-2400ST ALUM SLD. GLASS DOOR (S.M.I.)
TECNOGLASS, LLC
3550 N.W. 49 STREET
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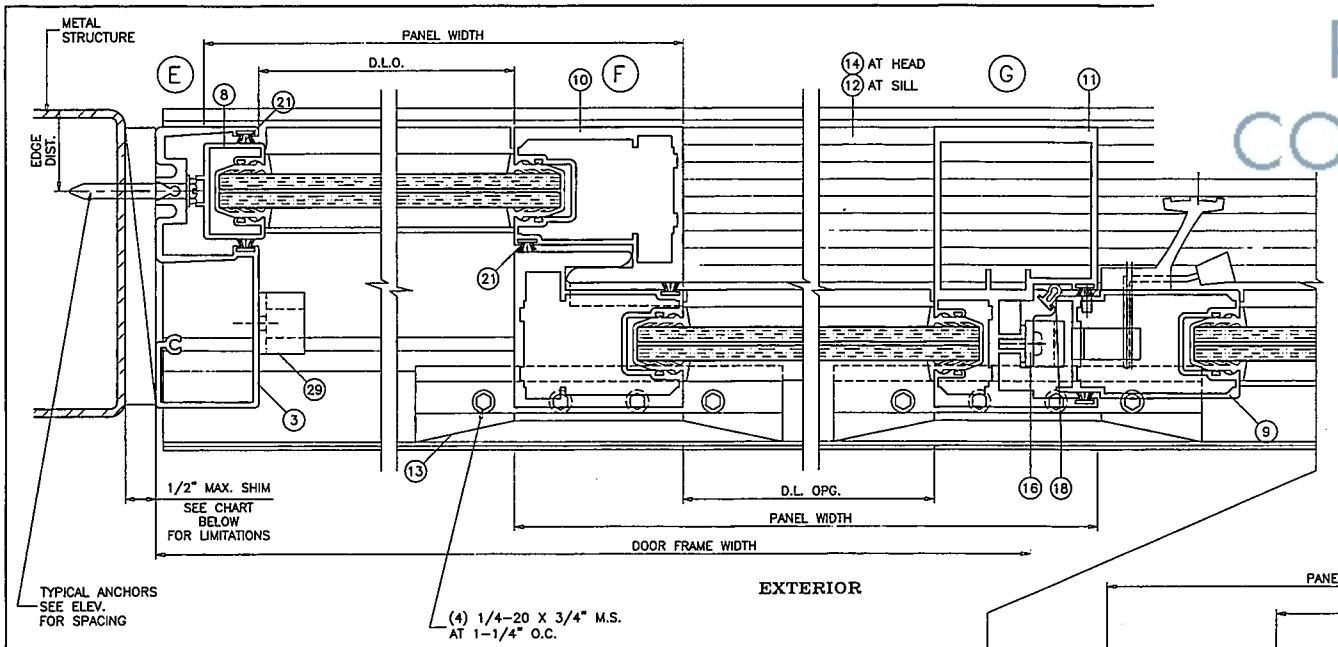
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R	11.06.17		NO CHANGE THIS SHEET

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chk. by:

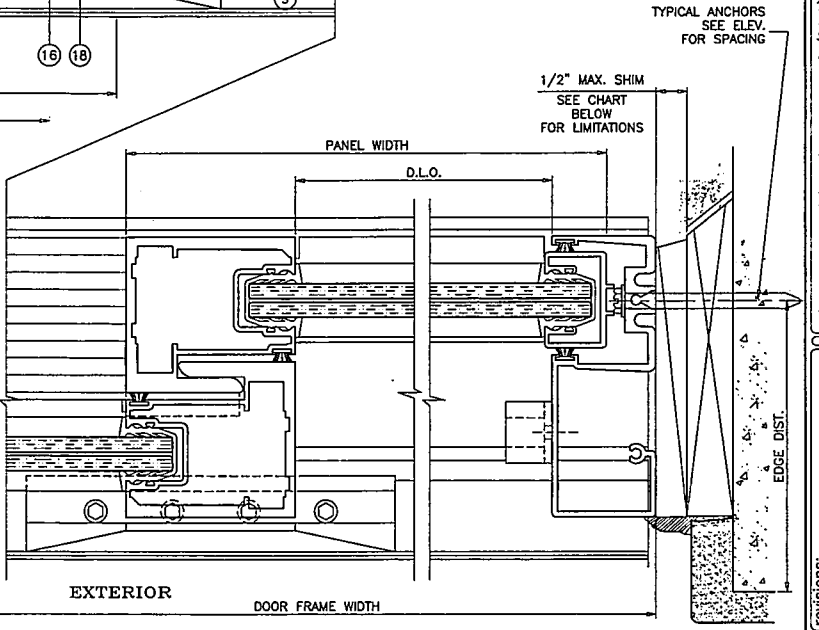
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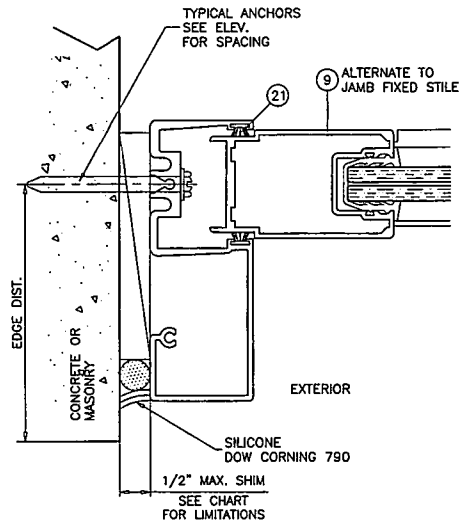
sheet 5 of 10

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1115.03
Expiration Date 2.17.22
By: Isl-Sl.Ghani
Miami-Dade Product Control





JAMB ANCHOR CAPACITY WITH SHIM > 1/4"

LIMIT MAX. DESIGN LOADS AS SHOWN FOR DOORS WITH 1/2" AND 3/8" SHIMS		
PANEL WIDTH NOMINAL INCHES	1/2" SHIMS EXT. (+) INT. (−)	3/8" SHIMS EXT. (+) INT. (−)
30	142.0	142.0
36	120.0	142.0
42	102.9	131.1
48	90.0	114.8
54	80.0	102.0
60	72.0	91.8

NOTE:
THIS CHART TO BE USED IN CONJUNCTION WITH HEAD/SILL ANCHOR CAPACITY (SHEET 3), LOWER DESIGN PRESSURE FROM GLASS, HEAD/SILL ANCHOR OR JAMB ANCHOR CHART SHALL CONTROL THE ENTIRE SYSTEM.

1BY OR 2BY WOOD BLOCKS AND METAL STRUCTURES NOT BY TECNOGLASS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

JAVAD AHMAD
LICENSE
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SERIES-2400ST ALUM SLD. GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL (305) 638-5151 FAX. (305) 638-5158

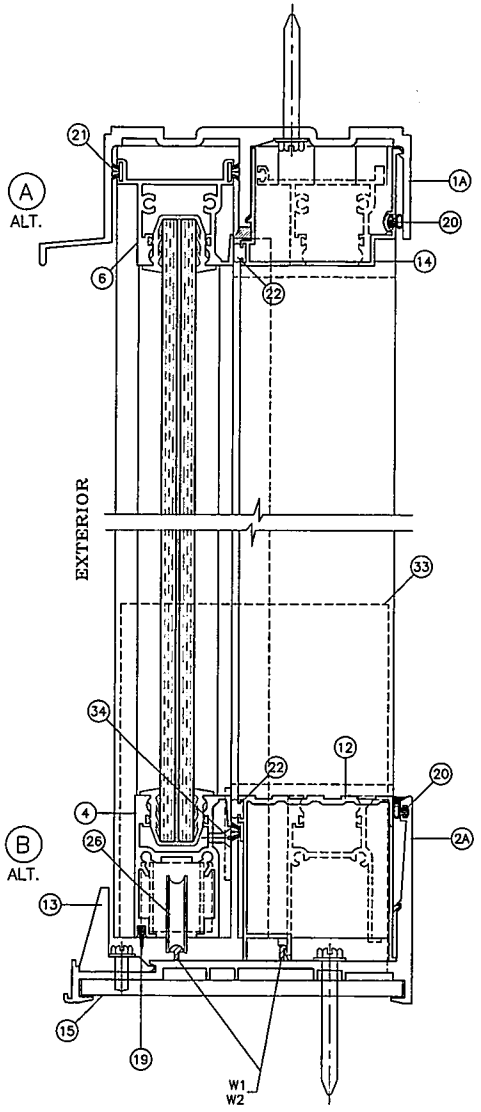
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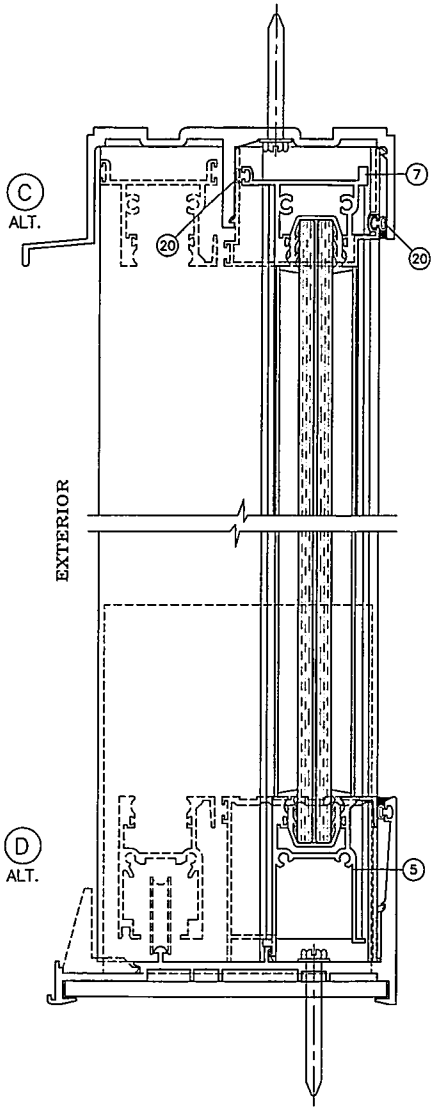
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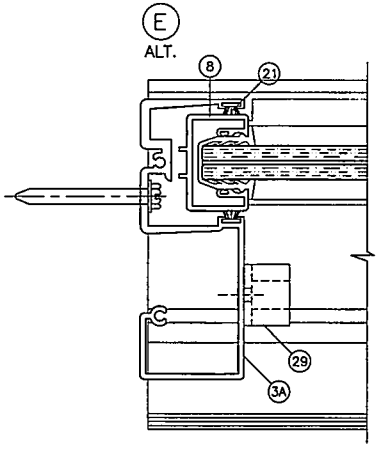
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W01-654

sheet 6 of 10

MIAMI BEACH
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PRODUCT REVISED
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By: Miami-Dade Product Control

ILLUSTRATED ALTERNATE DOOR FRAMES

THIS SHEET SHOWS ALTERNATE DOOR FRAMES WITH OUTSIDE SCREEN OPTION. HEAD/SILL/JAMB INSTALLATION FOR THESE FRAMES IS IDENTICAL TO STANDARD FRAMES INSTALLATION AS SHOWN ON SHEETS 5 AND 6.

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MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (30

SERIES-2400ST ALUM SLD. GLASS DOOR (S.M.I.)

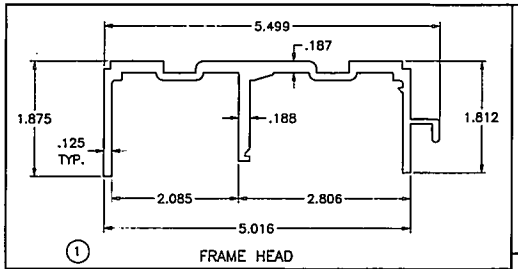
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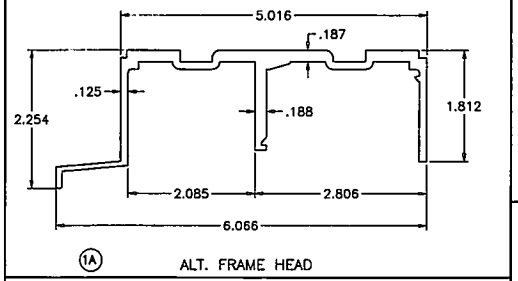
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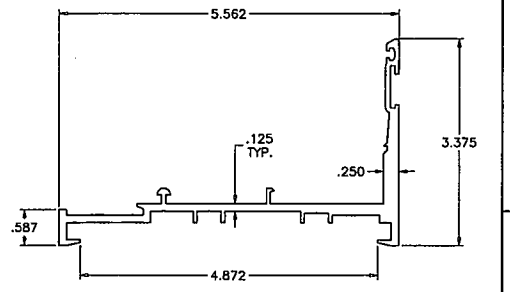
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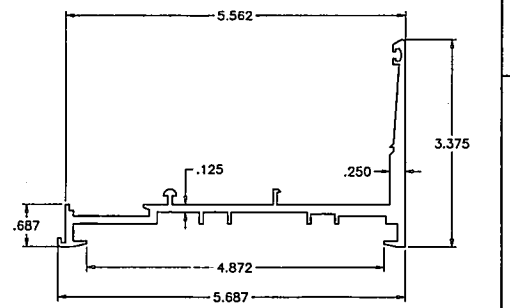
① FRAME HEAD



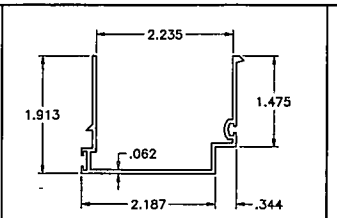
1A ALT. FRAME HEAD



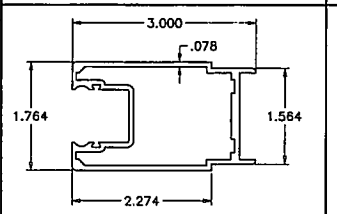
② FRAME SILL



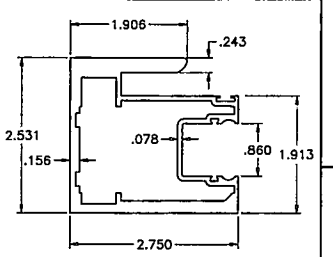
2A ALT. FRAME SILL



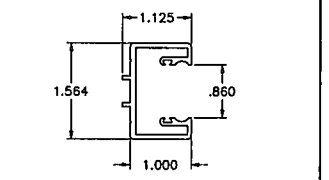
⑭ HEAD ADAPTER



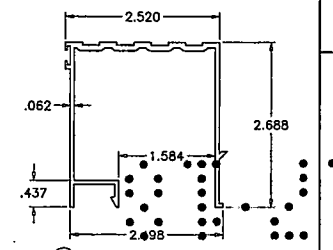
⑨ LOCK STILE



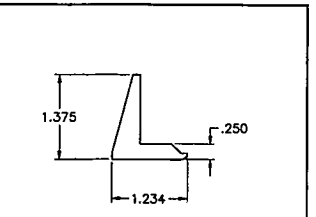
⑩ INTERLOCK



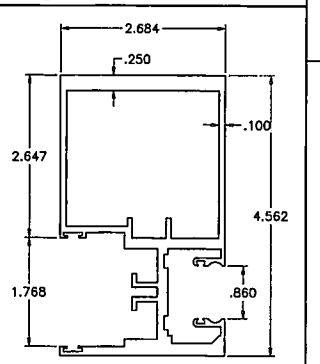
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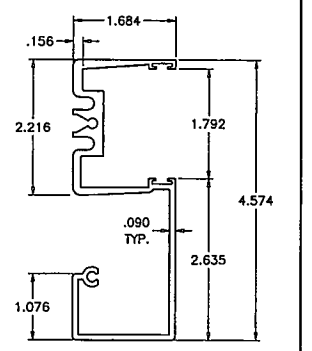
⑫ THRESHOLD



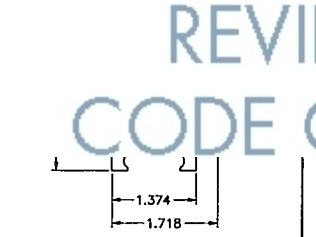
⑬ SILL ANCHOR



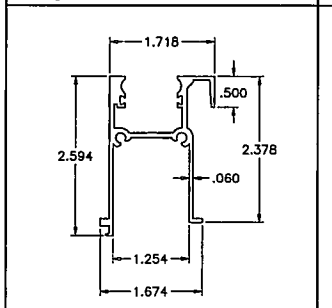
⑪ MTG. STILE



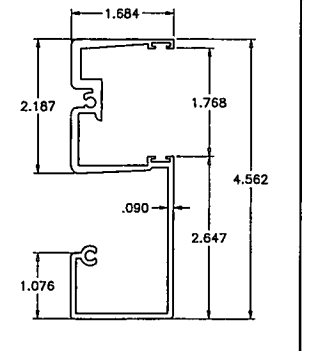
③ FRAME JAMB



⑦ FIX. TOP RAIL



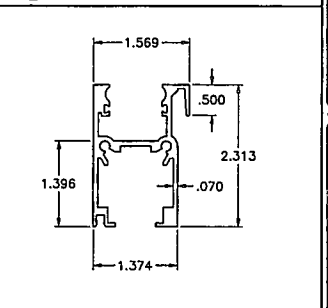
⑤ FIX. BOTTOM RAIL



3A ALT. FRAME JAMB



⑥ MOV. TOP RAIL



④ MOVING BOTTOM RAIL

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1115.03
Expiration Date 2/17/22
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPO
ENGINEERS & PRODUCT DEVEL
9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (3

SERIES-2400ST ALUM. SLD. GLASS DOOR (S.M.L.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:			
no	date	by	description
O	08.01.14		MANUF. NAME REV.
P	12.08.15		UPDATED TO 2014 FBC
O	01.30.17		REV. PER RER COMMENTS
R	11.06.17		NO CHANGE THIS SHEET

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dr. by: TARIQ
chk. by:

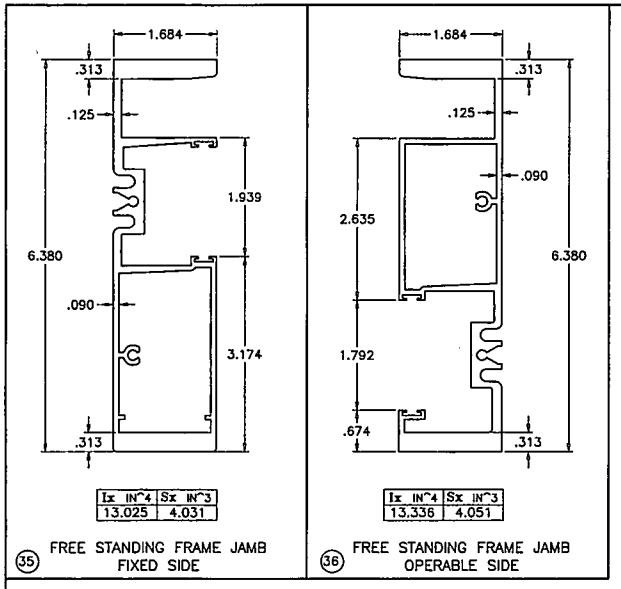
drawing no.
W01-654

sheet 8 of 10

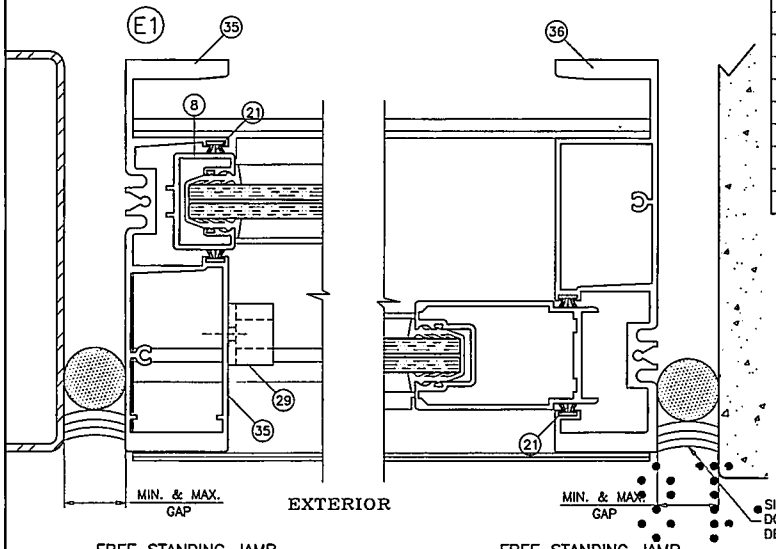
02-1-90

AND

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE



ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTI		
1	2400ST-038	1	FRAME HEAD		
1A	2400ST-018	1	ALT. FRAME H		
2	2400ST-039	1	FRAME SILL		
2A	2400ST-010	1	ALT. FRAME S		
3	2400ST-042	2	FRAME JAMB		
3A	2400ST-001	2	ALT. FRAME JAMB	6063-T6	-
4	2400ST-008	1/MOV. PANEL	MOVING HORIZ. BOTT. RAIL	6063-T6	-
5	2400ST-009	1/FIX. PANEL	FIXED HORIZ. BOTT. RAIL	6063-T6	-
6	2400ST-006	1/MOV. PANEL	TOP MOVING RAIL	6063-T6	-
7	2400ST-007	1/FIX. PANEL	TOP FIXED RAIL	6063-T6	-
8	2400ST-004	1/FIX. PANEL	JAMB FIXED STILE	6063-T6	-
9	2400ST-002	1	JAMB FIX. STILE/LOCK STILE	6063-T6	-
10	2400ST-037	1/ PANEL	INTERLOCK	6005-T5	-
11	2400ST-005	1	MEETING STILE	6005-T5	-
12	2400ST-012	1	THRESHOLD FILLING TRACK	6063-T6	LENGTH=OPG. W. BETWEEN FIXED PANELS
13	2400ST-011	-	SILL TRACK ANCHOR CLIP, 6" LONG	6005-T5	-
13A	-	4/ CLIP	1/4-20 X 3/4" LG. SOCKET HEAD CAP SCREWS	ST/ST	-
14	2400ST-019	1	HEAD ADAPTER	6063-T6	LENGTH=OPG. W. BETWEEN FIXED PANELS
15	2400ST-031	2	SILL TRACK PLATE (5-1/4" X 1/4" X 4" LONG)	ALUMINUM	AT EACH END
15A	2400ST-031	3	SILL TRACK PLATE (5-1/4" X 1/4" X 8" LONG)	ALUMINUM	AT INTERLOCK/ASTRAGAL STILES
16	2400ST-032	-	MTG. RAIL THRESHOLD SEAL	6063-T5	6" LONG
17	#10 X 1/2"	2	WEATHERSTRIP FASTENERS	-	-
18	V-027	-	BULB W'STRIPPING, DUROMETER 75±5 SHORE A	TPE	FP-712 PROTOTYPE
19	WV-2310	-	FLAP WEATHER SEAL, DUROMETER 75±5 SHORE A	VINYL	WIBORG
20	V-026	-	BULB W'STRIPPING, DUROMETER 65±5 SHORE A	SOFT PVC	FP-198 PROTOTYPE
21	W31265NK	-	FIN PILE W'STRIPPING	-	ULTRAFAB
22	Q250X270	-	Q-LON W'STRIPPING	-	SCHLEGEL
24	V-022	AS REQD.	GLAZING GASKET, DUROMETER 75±5 SHORE A	VINYL	9/16" GLASS
26	100-7101	2/MOV. PANEL	TANDEM WHEEL ASSEMBLY	-	WORLD IND. PRODUCTS INTL.
27	10-0030XX	1	STANDARD SLIDE SET LOCK	-	WORLD IND. PRODUCTS INTL.
28	-	1	LOCK KEEPER	-	-
29	-	-	DOOR BUMPER	-	1" DIA. X 3/4" LONG
30	2400ST-040	AS REQD.	INSIDE SCREEN TRACK	6063-T6	-
31	#10 X 1-1/2"	2/ PANEL	PANEL ASSBY. SCREWS	ST/ST	-
32	#10 X 1"	2/ CORNER	FRAME ASSBY. SCREWS	-	-
33	-	2	4-1/4" X .060" X 6" LONG PLATE	ALUMINUM	AT FRAME JAMB BOTTOM
34	-	-	5/8" X 1-1/2" X .1" PLATE @ LOCK STILE BOTTOM	ALUMINUM	FASTENED W/ #8 X 3/8" FH SMS
35	2400ST-071	1	FREE STANDING JAMB (FIX. SIDE)	6005-T5	-
36	2400ST-072	1	FREE STANDING JAMB (OPERABLE SIDE)	6005-T5	-



FREE STANDING JAMB FIXED SIDE

FREE STANDING JAMB OPERABLE SIDE

MAX. FRAME HEIGHT	GAP MIN.	GAP MAX.
84"	7/16"	5/8"
120"	1/2"	5/8"

SEALANTS:

ALL FRAME AND PANEL JOINT, INSTALLATION SCREWS AND HEADS OF ANCHOR SCREWS AT SILL TO BE SEALED WITH WHITE/ALUM COLORED SEALANT.

LOCKS:

SURFACE MOUNT THREE PLY HOOK LOCK BY 'WORLD INDUSTRIAL PRODUCTS' AT 41-1/2" FROM BOTTOM WITH KEEPERS AT LOCK POSITION.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 17-1115.03
Expiration Date 7/7/22
By: Ishaq I. Chanda
Miami-Dade Product Control

NOV 13 2017

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPOR
ENGINEERS & PRODUCT DEVELO
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (30

SERIES-2400ST ALUM SLD. GLASS DOOR (S.M.I.)

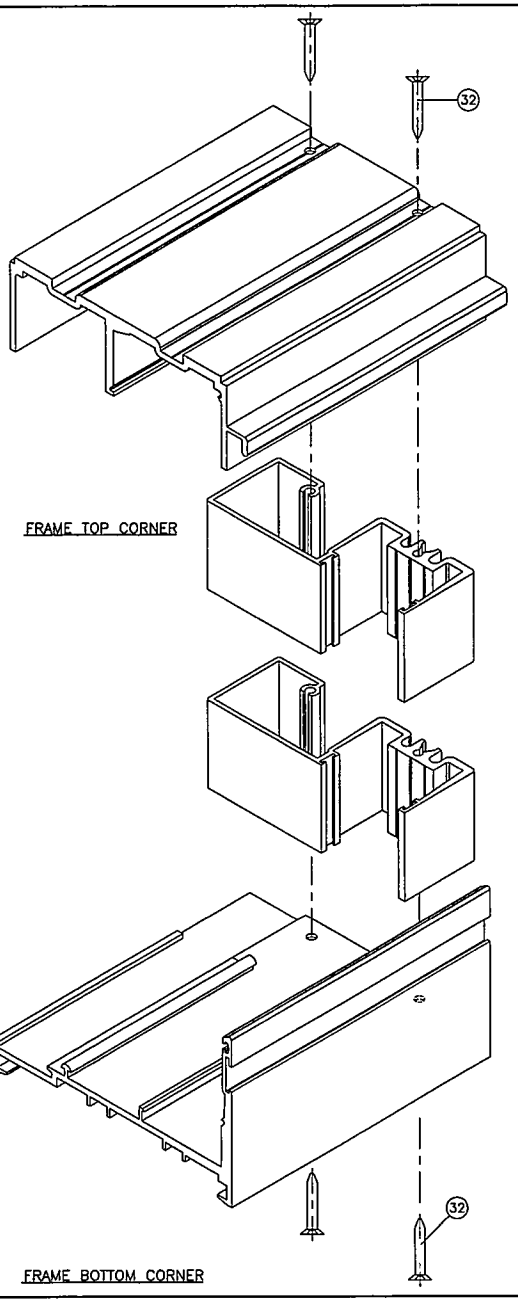
TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

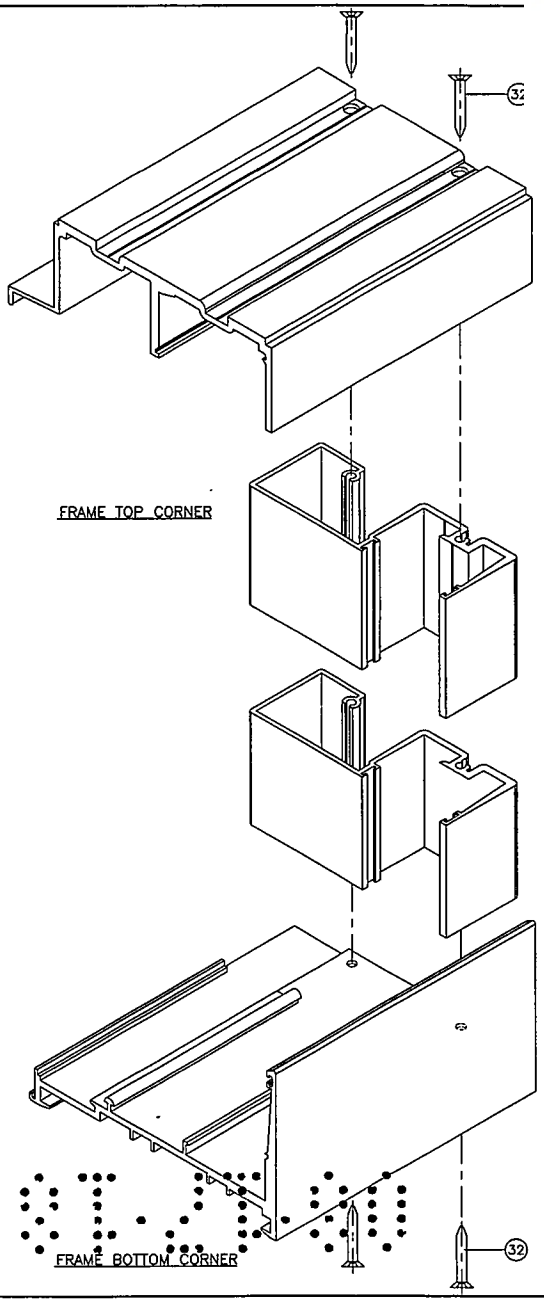
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P	12.08.15		UPDATED TO 2014 FBC
Q	01.30.17		REV. PER RER COMMENTS
R	11.06.17		NO CHANGE THIS SHEET

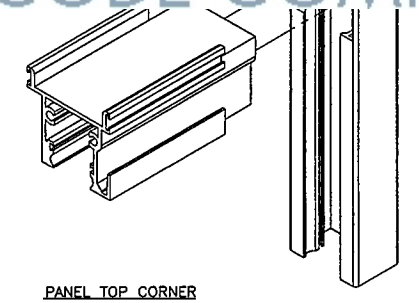
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chk. by:

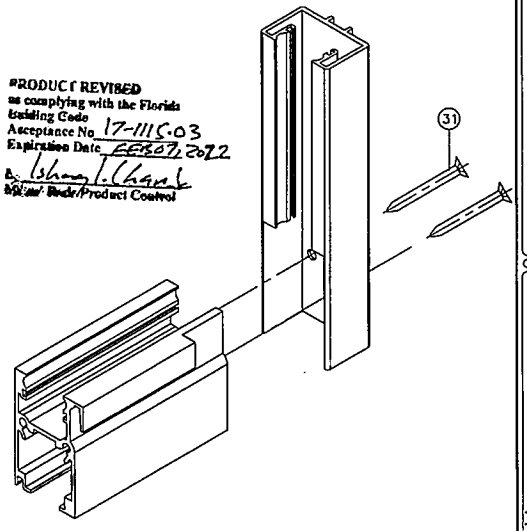
drawing no. W01-6954
sheet 9 of 10

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE






PANEL TOP CORNER



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1115.03
Expiration Date 12/31/2022
By: Ishaq I. Chanda
Miami-Dade Product Control

NOV 13 2017

JAVAD AHMAD
LICENSE
No. 70502
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPOR
ENGINEERS & PRODUCT DEVELO
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 284-8100 FAX. (30

SERIES-2400ST ALUM SLD. GLASS DOOR (S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:			
no	date	by	description
O	08.01.14		MANUF. NAME REV.
P	12.08.15		UPDATED TO 2014 FBC
Q	01.30.17		REV. PER RER COMMENTS
R	11.06.17		NO CHANGE THIS SHEET

date: 08-17-01
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W01-754
sheet 10 of 10

9H3

MIAMIREACH
REVIEWED FOR
CODE COMPLIANCE

BC

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMI
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

Tecnoglass, LLC
3550 NW 49th Street
Miami, FL 33142

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 "HR-2600" Aluminum Horizontal Sliding Window – S.M.I.

APPROVAL DOCUMENT: Drawing No.**W06-37**, titled "Series HR2600 Alum. Horizontal Sliding Wdw. (S.M.I.)", sheets 1 through 7 of 7, dated 06/20/06, with revision **F** dated 02/15/18, prepared by Al Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: 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 **revises NOA No. 16-0309.07** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**

MIAMI-DADE COUNTY APPROVED

S.Z.
05/07/2018

NOA No. 18-0301.12
Expiration Date: September 07, 2021
Approval Date: May 17, 2018

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

Tecnoglass, LLC

NOTICE OF ACCEPTAN

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
   (Submitted under NOA No. 06-0712.10)
2. Drawing No. **W06-37**, titled "Series HR2600 Alum. Horizontal Sliding Wdw. (S.M.I.)", sheets 1 through 7 of 7, dated 06/20/06, with revision E dated 01/29/16, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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) Small 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 XOX aluminum horizontal sliding window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4770**, dated 01/17/06, signed and sealed by Edmundo Largaespada, P.E.
   (Submitted under NOA No. 06-0712.10)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 11/30/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their **"Butacite® PVB Glass Interlayer"** dated 04/25/15, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated February 25, 2016, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Laboratory compliance letter for Test Report No. **FTL-4770**, issued by Fenestration Testing Laboratory, Inc., dated 02/24/06, signed and sealed by Edmundo Largaespada, P.E.
   (Submitted under NOA No. 06-0712.10

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 18-0301.12
Expiration Date: September 07, 2021
Approval Date: May 17, 2018

MIAMI-DADE
REVIEWED FOR
CODE COMPLIANCE

G. OTHERS

1. NOA No. **14-0807.14**, issued to Tecnoglass, LLC for their Series "HR-2600" Aluminum Horizontal Sliding Window – S.M.I., approved on 09/04/14 and expiring on 09/07/16.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **W06-37**, titled "Series HR2600 Alum. Horizontal Sliding Wdw. (S.M.I.)", sheets 1 through 7 of 7, dated 06/20/06, with revision **E** dated 02/15/18, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. None

C. CALCULATIONS

1. Anchor verification calculations complying with **FBC 6th Edition (2017)**, dated 02/09/2018, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. NOA No. **17-1114.14** issued to **Kuraray America, Inc.** for their "**Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers**" dated 01/18/18, expiring on 07/08/19.

F. STATEMENTS

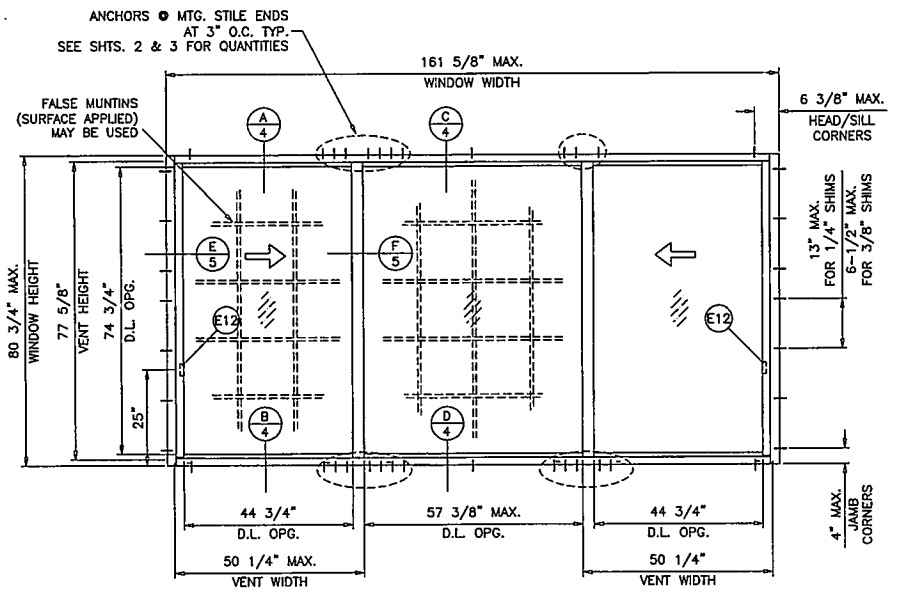
1. Statement letter of conformance, complying with **FBC 6th Edition (2017)**, and of no financial interest, dated February 09, 2018, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

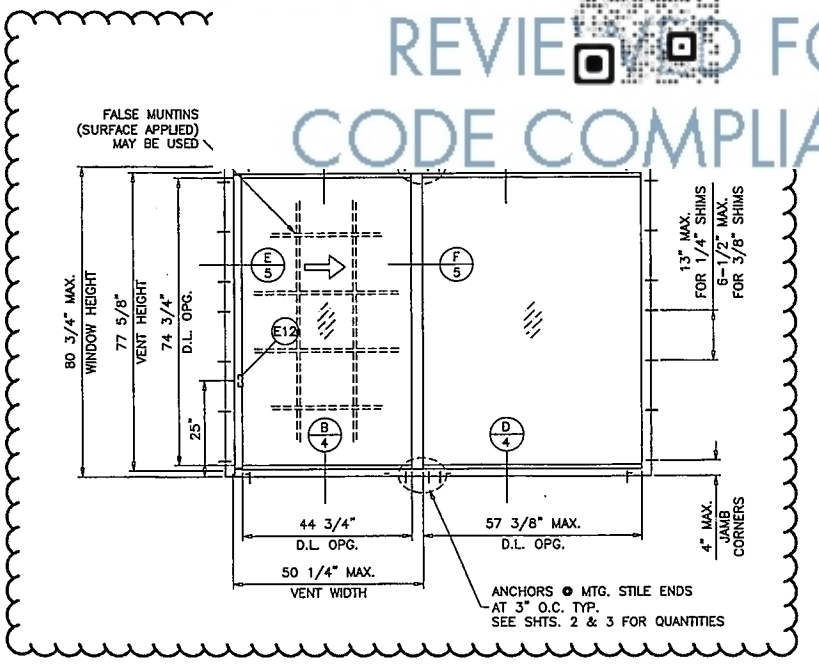
G. OTHERS

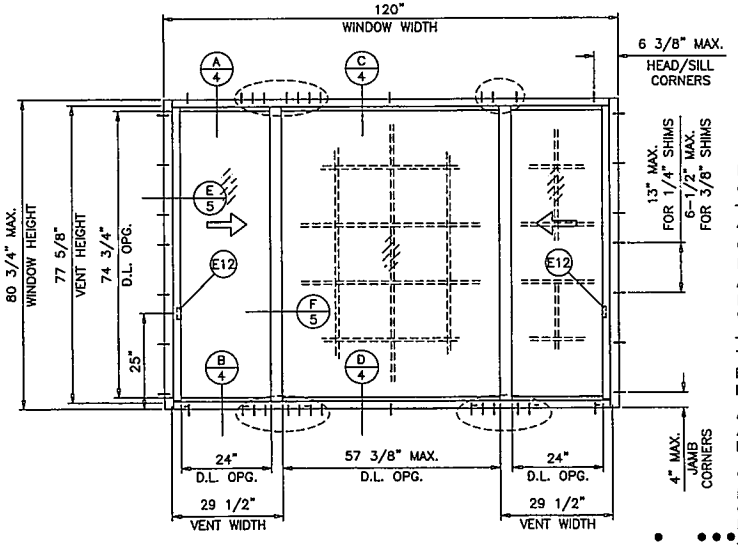
1. NOA No. **16-0309.07**, issued to Tecnoglass, LLC for their Series "HR-2600" Aluminum Horizontal Sliding Window – S.M.I., approved on 06/23/16 and expiring on 09/07/21.

Sifang Zhao, P.E.
Product Control Examiner
NOA No. 18-0301.12
Expiration Date: September 07, 2021
Approval Date: May 17, 2018

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE







TYPICAL ELEVATIONS

SERIES HR2600
ALUMINUM HORIZONTAL SLIDING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2 & 3.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.S./H.S. OR HORIZONTAL SLIDING WITH OTHER MIAMI-DADE COUNTY APPR'D WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.
LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT.
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

LAMINATED GLASS
SMALL MISSILE IMPACT

FEB 26 2019

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 16-0301.12
Expiration Date 09/01/2021

By _____
Miami Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORP
ENGINEERS & PRODUCT DEVE
9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX.

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

SERIES HR2600 ALUM. HORIZONTAL SLIDING WDW.(S.M.I.)

revisions:			
no	date	by	description
C	02.16.12		UPDATED TO 2010 FBC
D	08.01.14		MANUF. NAME REV.
E	01.29.16		UPDATED TO 2014 FBC
F	02.15.18		UPDATED TO 2017 FBC

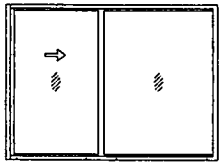
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dr. by: TARIQ
chk. by:

drawing no. W06-37/A
sheet 1 of 7

940

MIAMIREACH
REVIEWED FOR
CODE COMPLIANCE

DESIGN LOAD CAPACITY – PSF (XO OR OX SIZES)										
		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'					
		3/8" SHIM SPACE			1/4" SHIM SPACE			3/8" SHIM SPACE		
WINDOW DIMS.		A4	A6	A7	B3	B4	B5	B6	B7	B8
WIDTH	HEIGHT	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
36"	36"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
112"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36"	48"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		116.0	120.0	120.0	110.7	120.0	120.0	120.0	120.0	120.0
112"		111.9	120.0	120.0	106.7	120.0	120.0	119.6	120.0	120.0
36"	60"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"		119.3	120.0	120.0	113.8	120.0	120.0	120.0	120.0	120.0
96"		104.4	120.0	120.0	99.6	120.0	120.0	111.6	120.0	120.0
108"		92.8	120.0	120.0	88.5	118.0	120.0	99.2	115.7	120.0
112"		89.5	120.0	120.0	85.4	113.8	120.0	95.7	111.6	120.0
36"	72"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
72"		116.0	120.0	120.0	110.7	120.0	120.0	120.0	120.0	120.0
84"		99.4	120.0	120.0	94.9	120.0	120.0	106.3	120.0	120.0
96"		87.0	120.0	120.0	83.0	110.7	120.0	93.0	108.5	120.0
108"		77.3	116.0	120.0	73.8	98.4	120.0	82.7	96.4	110.2
112"		74.6	111.9	120.0	71.1	94.9	118.6	79.7	93.0	106.3
36"	80-3/4"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
60"		120.0	120.0	120.0	118.4	120.0	120.0	120.0	120.0	120.0
72"		103.4	120.0	120.0	98.7	120.0	120.0	110.6	120.0	120.0
84"		88.7	120.0	120.0	84.6	112.8	120.0	94.8	110.6	120.0
96"		77.6	116.4	120.0	74.0	98.7	120.0	82.9	96.7	110.6
108"		69.0	103.4	120.0	65.8	87.7	109.6	73.7	86.0	98.3
112"		66.5	99.7	116.4	63.4	84.6	105.7	71.1	82.9	94.8

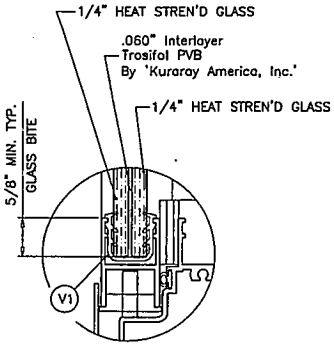


ANCHORS TYPES: SEE SHEET 4 FOR DESCRIPTION

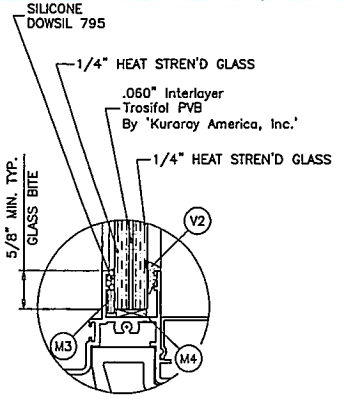
A4 = (4) ANCHORS TYPE 'A' AT MTG. STILE ENDS
A6 = (6) ANCHORS TYPE 'A' AT MTG. STILE ENDS
A7 = (7) ANCHORS TYPE 'A' AT MTG. STILE ENDS

B3 = (3) ANCHORS TYPE 'B' AT MTG. STILE ENDS
B4 = (4) ANCHORS TYPE 'B' AT MTG. STILE ENDS
B5 = (5) ANCHORS TYPE 'B' AT MTG. STILE ENDS
B6 = (6) ANCHORS TYPE 'B' AT MTG. STILE ENDS
B7 = (7) ANCHORS TYPE 'B' AT MTG. STILE ENDS
B8 = (8) ANCHORS TYPE 'B' AT MTG. STILE ENDS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219



VENT



FIX. LITE

GLAZING DETAIL

D.L. OPG. DIMENSIONS
MAXIMUM WIDTH = 57-3/8"
MAXIMUIM HEIGHT = 74-3/4"

FEB 26 2018

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. FB-0301.12
Expiration Date 09/01/2021
By
Miami Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPO
ENGINEERS & PRODUCT DEVEL
9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173 FAX. (3
TEL. (305) 264-8100

SERIES HR2600 ALUM. HORIZONTAL SLIDING WDW.(S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:			
no	date	by	description
C	02.16.12		NO CHANGE THIS SHEET
D	08.01.14		MANUF. NAME REV.
E	01.29.16		UPDATED TO 2014 FBC
F	02.15.18		UPDATED TO 2017 FBC

date: 06-20-06
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

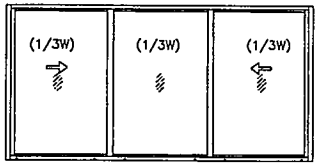
drawing no.
W06-3775
sheet 2 of 7

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

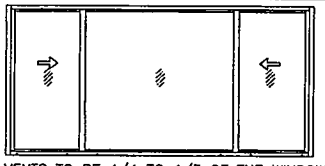
DESIGN LOAD CAPACITY – PSF (XOX SIZES)

WINDOW DIMS.		ANCHORS TYPE 'A' 3/8" SHIM SPACE			ANCHORS TYPE 'B' 1/4" SHIM SPACE			ANCHORS TYPE 'B' 3/8" SHIM SPACE		
		A4	A6	A7	B3	B4	B5	B6	B7	B8
WIDTH	HEIGHT	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
84"	36"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
120"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
132"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
144"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
156"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
161–5/8"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"	48"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
120"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
132"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
144"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
156"		120.0	120.0	120.0	114.9	120.0	120.0	120.0	120.0	120.0
161–5/8"		116.3	120.0	120.0	110.9	120.0	120.0	120.0	120.0	120.0
84"	60"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
120"		120.0	120.0	120.0	119.5	120.0	120.0	120.0	120.0	120.0
132"		113.9	120.0	120.0	108.7	120.0	120.0	120.0	120.0	120.0
144"		104.4	120.0	120.0	99.6	120.0	120.0	111.6	120.0	120.0
156"		96.4	120.0	120.0	91.9	120.0	120.0	103.0	120.0	120.0
161–5/8"		93.0	120.0	120.0	88.7	118.3	120.0	99.4	116.0	120.0
84"	72"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		116.0	120.0	120.0	110.7	120.0	120.0	120.0	120.0	120.0
120"		104.4	120.0	120.0	99.6	120.0	120.0	111.6	120.0	120.0
132"		94.9	120.0	120.0	90.5	120.0	120.0	101.5	118.4	120.0
144"		87.0	120.0	120.0	83.0	110.7	120.0	93.0	108.5	120.0
156"		80.3	120.0	120.0	76.6	102.2	120.0	85.8	100.2	114.5
161–5/8"		77.5	116.3	120.0	73.9	98.6	120.0	82.9	96.7	110.5
84"	80–3/4"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		116.4	120.0	120.0	111.0	120.0	120.0	120.0	120.0	120.0
108"		103.4	120.0	120.0	98.7	120.0	120.0	110.6	120.0	120.0
120"		93.1	120.0	120.0	88.8	118.4	120.0	99.5	116.1	120.0
132"		84.6	120.0	120.0	80.7	107.6	120.0	90.5	105.5	120.0
144"		77.6	116.4	120.0	74.0	98.7	120.0	82.9	96.7	110.6
156"		71.6	107.4	120.0	68.3	91.1	113.9	76.5	89.3	102.1

WINDOW									
WIDTH									
84"	36"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
120"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
132"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
144"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
156"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
161–5/8"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
84"	48"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
120"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
132"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
144"		116.0	120.0	110.7	120.0	120.0	120.0	120.0	120.0
156"		107.1	120.0	102.2	120.0	120.0	114.5	120.0	120.0
161–5/8"		103.4	120.0	98.6	120.0	120.0	110.5	120.0	120.0
84"	60"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
108"		120.0	120.0	118.0	120.0	120.0	120.0	120.0	120.0
120"		111.4	120.0	106.2	120.0	120.0	119.0	120.0	120.0
132"		101.2	120.0	96.6	120.0	120.0	108.2	120.0	120.0
144"		92.8	120.0	88.5	118.0	120.0	99.2	115.7	120.0
156"		85.7	120.0	81.7	109.0	120.0	91.6	106.8	120.0
161–5/8"		82.7	120.0	78.9	105.2	120.0	88.4	103.1	117.9
84"	72"	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
96"		116.0	120.0	110.7	120.0	120.0	120.0	120.0	120.0
108"		103.1	120.0	98.4	120.0	120.0	110.2	120.0	120.0
120"		92.8	120.0	88.5	118.0	120.0	99.2	115.7	120.0
132"		84.4	120.0	80.5	107.3	120.0	90.2	105.2	120.0
84"	80–3/4"	118.2	120.0	112.8	120.0	120.0	120.0	120.0	120.0
96"		103.4	120.0	98.7	120.0	120.0	110.6	120.0	120.0
108"		91.9	120.0	87.7	116.9	120.0	98.3	114.7	120.0
120"		82.7	120.0	78.9	105.3	120.0	88.5	103.2	117.9



OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH



OPERATING VENTS TO BE 1/4 TO 1/3 OF THE WINDOW WIDTH

ANCHORS TYPES: SEE SHEET 4 FOR DESCRIPTION

A4 = (4) ANCHORS TYPE 'A' AT MTG. STILE ENDS
A6 = (6) ANCHORS TYPE 'A' AT MTG. STILE ENDS
A7 = (7) ANCHORS TYPE 'A' AT MTG. STILE ENDS

B3 = (3) ANCHORS TYPE 'B' AT MTG. STILE ENDS
B4 = (4) ANCHORS TYPE 'B' AT MTG. STILE ENDS
B5 = (5) ANCHORS TYPE 'B' AT MTG. STILE ENDS
B6 = (6) ANCHORS TYPE 'B' AT MTG. STILE ENDS
B7 = (7) ANCHORS TYPE 'B' AT MTG. STILE ENDS
B8 = (8) ANCHORS TYPE 'B' AT MTG. STILE ENDS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05–DEC–219

FEB 26 2018

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 18-0301.12
Expiration Date 08/07/2021
By
Miami Dade Product Control

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305)

SERIES HR2600 ALUM HORIZONTAL SLIDING WDW.(S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638–5151 FAX. (305) 638–5158

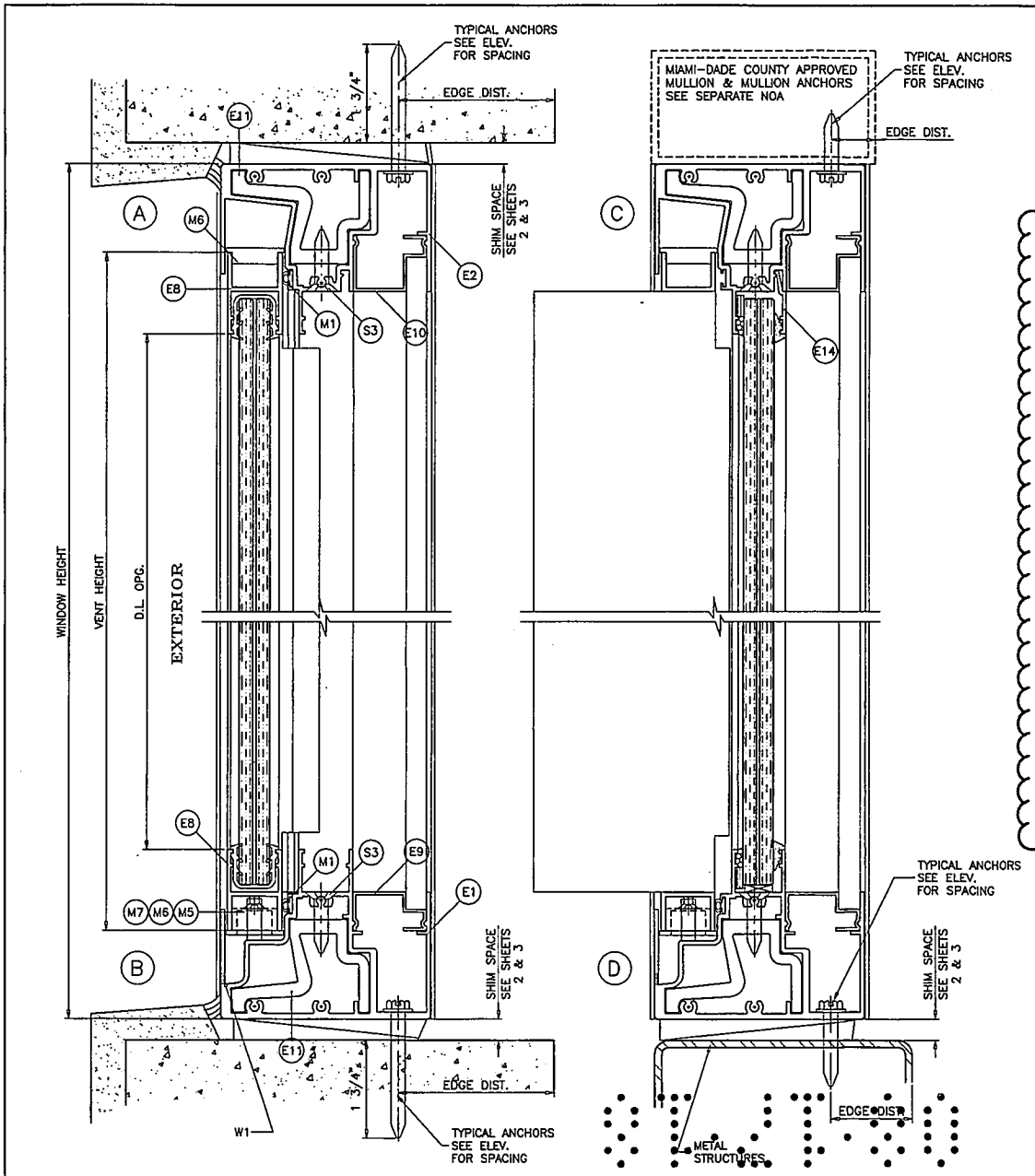
revisions:			
no	date	by	description
C	02.16.12		NO CHANGE THIS SHEET
D	08.01.14		MANUF. NAME REV.
E	01.29.16		UPDATED TO 2014 FBC
F	02.15.18		UPDATED TO 2017 FBC

date: 06-20-06
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no. W06–37/6

sheet 3 of 7

MIAMI REACH
REVIEWED FOR
CODE COMPLIANCE



AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'– 5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONC. OR BLOCKS
1–3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1–3/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE 'B'– 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI–DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063–T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE AND BLOCKS = 2–1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C–90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

SEALANTS:
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUM COLORED SILICONE.

WEEPHOLES:
W1 = 1" X 1/4" WEEPHOLES TWO PER LITE AT 6" FROM ENDS WITH PLASTIC BAFFLE

FEB 26 2018

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 18-0301.12
Expiration Date 09/07/2021
By
Miami Dade Product Control

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORP
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SERIES HR2600 ALUM HORIZONTAL SLIDING WDW.(S.M.I.)

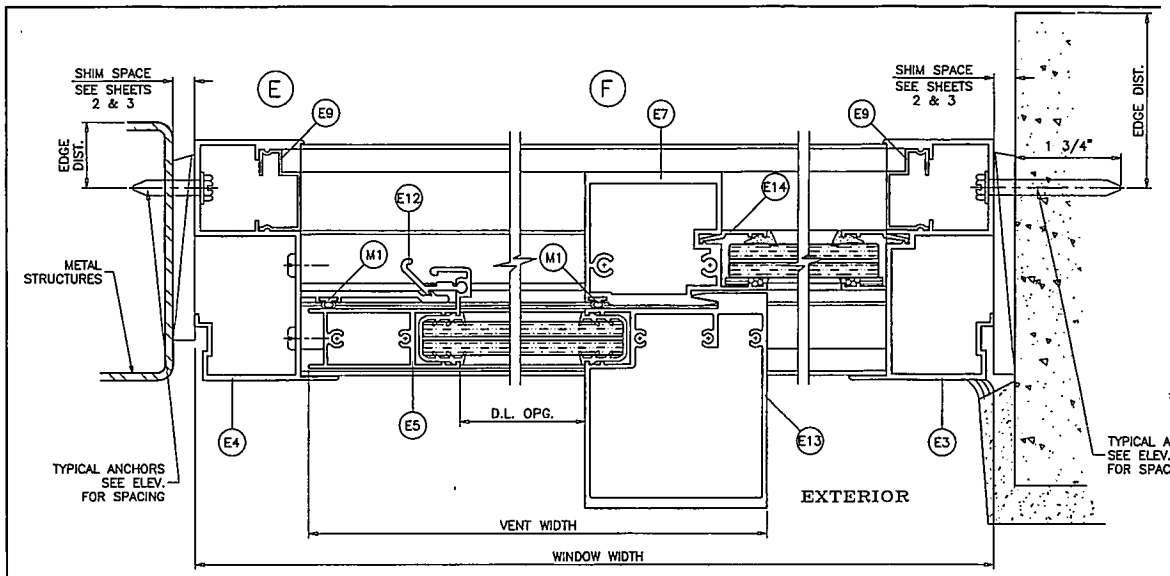
TECNOGLASS, LLC
3550 N.W. 49 STREET
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revisions:			
no	date	by	description
C	02.16.12		NO CHANGE THIS SHEET
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E	01.29.16		UPDATED TO 2014 FBC
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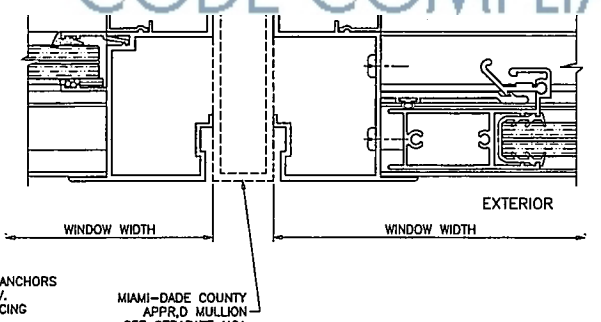
date: 06-20-06
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

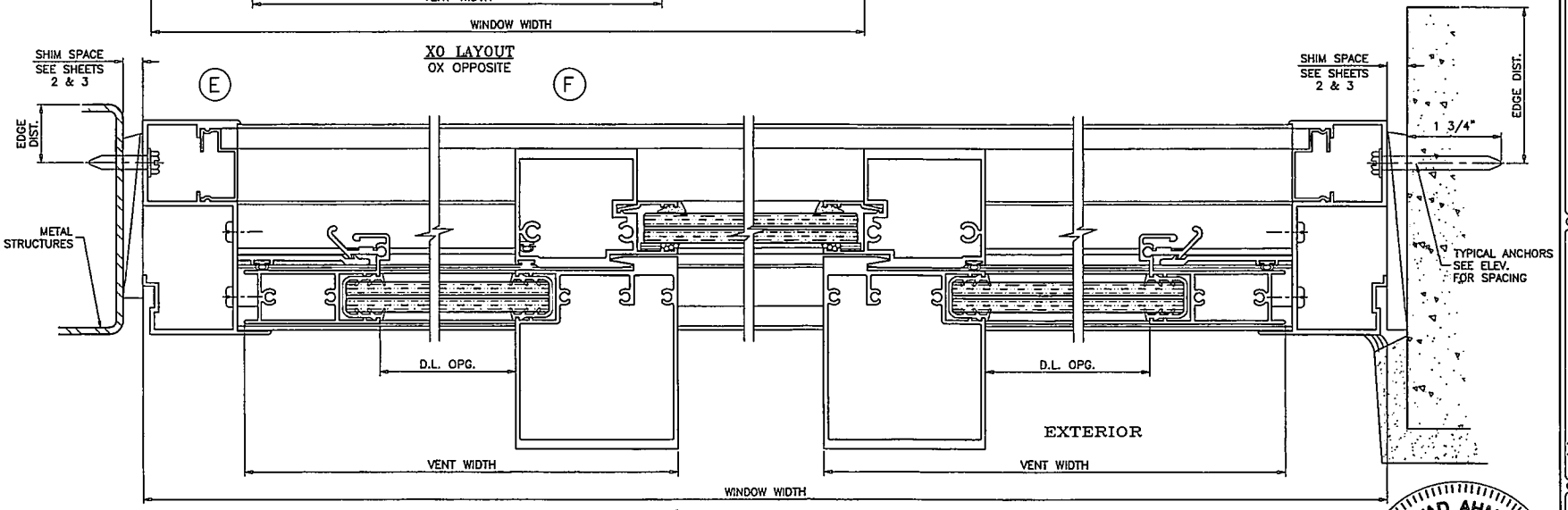
drawing no. W06-37 7
sheet 4 of 7

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



XO LAYOUT
OX OPPOSITE





XOX LAYOUT

FEB 26 2018

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-0301.12
Expiration Date 09/07/2021
By
Miami-Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

01-21-19

SHO

AL-FAROOQ CORPO
ENGINEERS & PRODUCT DEVEL
9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (3

SERIES HR2600 ALUM HORIZONTAL SLIDING WDW.(S.M.I.)

TECNOGLASS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

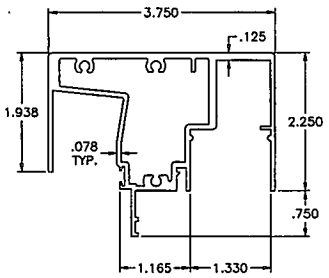
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E	01.29.16		UPDATED TO 2014 FBC
F	02.15.18		UPDATED TO 2017 FBC

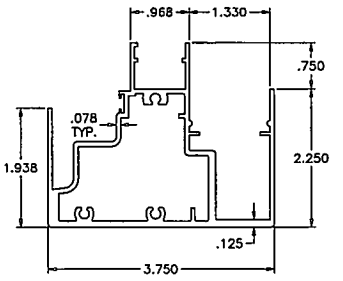
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dr. by: TARIQ
chk. by:

drawing no.
W06-37
sheet 5 of 7

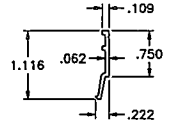
MIAMIREACH
REVIEWED FOR
CODE COMPLIANCE



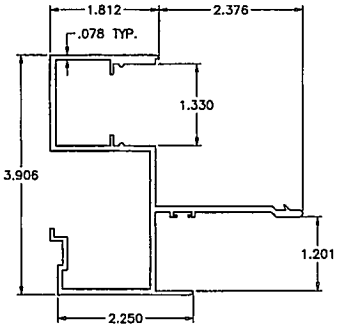
E2 FRAME HEAD



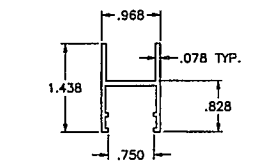
E1 FRAME SILL



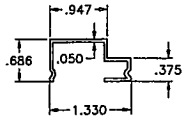
E14 GLAZING BEAD



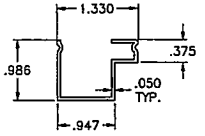
E4 FRAME JAMB @ MOVING SIDE



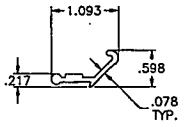
E8 VENT TOP/BOTTOM RAIL



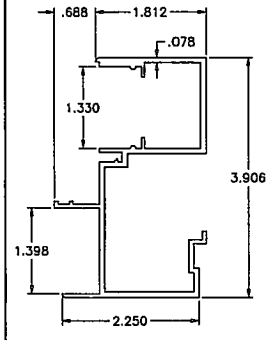
E9 JAMB/SILL ANCHOR COVER



E10 HEAD ANCHOR COVER

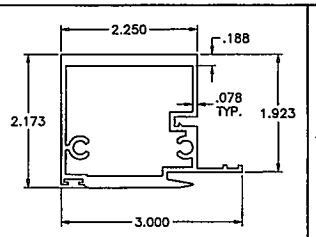


E12 FINGER LOCK

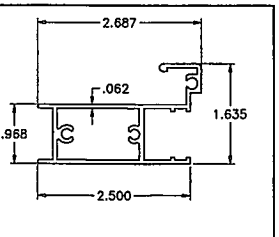


E3 FRAME JAMB @ FIXED SIDE

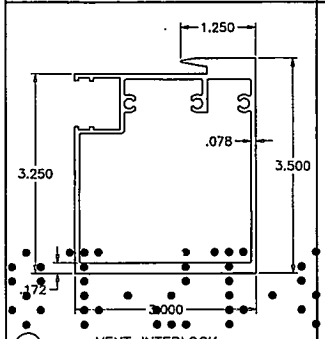
ITEM	PART #	QUANTITY	DESCRIPTIO		
E1	HR2600-001	1	FRAME SILL		
E2	HR2600-002	1	FRAME HEA		
E3	HR2600-003	AS REQD.	FRAME JAM		
E4	HR2600-004	AS REQD.	FRAME JAM		
E5	HR2600-005	1/ VENT	JAMB STILE		
E7	HR2600-007	1/ VENT	FRAME MEE		
E8	HR2600-008	2/ VENT	VENT TOP & BOTTOM RAIL	6063-T6	-
E9	HR2600-009	AS REQD.	SILL AND JAMB ANCHOR COVER	6005-T5	-
E10	HR2600-010	AS REQD.	HEAD ANCHOR COVER	6005-T5	-
E11	HR2600-011	AS REQD.	MEETING STILE END SUPPORT, 8" LONG	6005-T5	AT FIX. MTG. RAIL LOCATIONS
E12	HR2600-012	1/ VENT	ALUM FINGER LOCK (3" LONG)	6063-T6	-
E13	HR2600-013	1/ VENT	VENT INTERLOCK	6005-T5	-
E14	500Y-007	AS REQD.	GLAZING BEAD	6063-T6	-
V1	V-068	AS REQD.	MARINE GLAZING	EPDM	DUROMETER 75±5 SHORE A
V2	V-053	AS REQD.	WEDGE GASKET	TPE	DUROMETER 75±5 SHORE A
S1	#10 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	ST/ST	PH. PHL. SMS POINT "B"
S2	#14 X 3/4"	AS REQD.	MEETING STILE ASSEMBLY SCREWS	ST/ST	PH. SMS POINT "B"
S3	#14 X 1"	2/ SUPPORT	MEETING STILE END SUPPORT ASSEMBLY SCREWS	ST/ST	FH. SMS
S5	#10 X 1"	AS REQD.	VENT ASSEMBLY SCREWS	ST/ST	FH. SMS
M1	Q-270X300	AS REQD.	FABRIC COATED FOAM W'STRIPPING	-	Q-LON
M3	V2100	-	3/8" X 3/16" SINGLE FACE TAPE	-	-
M4	-	3/ FIX. LITE	1/8" X 1/2" X 4" LG. SETTING BLOCK AT SILL	-	AT 6" FROM ENDS & MIDSPAN
M5	P-024	2/ VENT	WHEEL	NYLON	-
M6	P-032	2/ VENT	WHEEL RETAINER HOUSING	PLASTIC	-
M7	RS100-M01	-	KNURLED PIN AXLE	ST/ST	-
M8	66900-001	-	PLASTIC WEEP HOLE FLAP	-	-



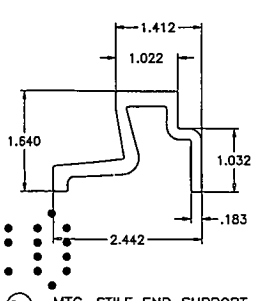
E7 MEETING STILE



E5 JAMB STILE



E13 VENT INTERLOCK



E11 MTG. STILE END SUPPORT

FEB 26 2019
PRODUCT REVISED
as complying with the Florida
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Acceptance No. 18-0301.12
Expiration Date 04/01/2021
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SERIES HR2600 ALUM. HORIZONTAL SLIDING W/W.(S.M.I.)

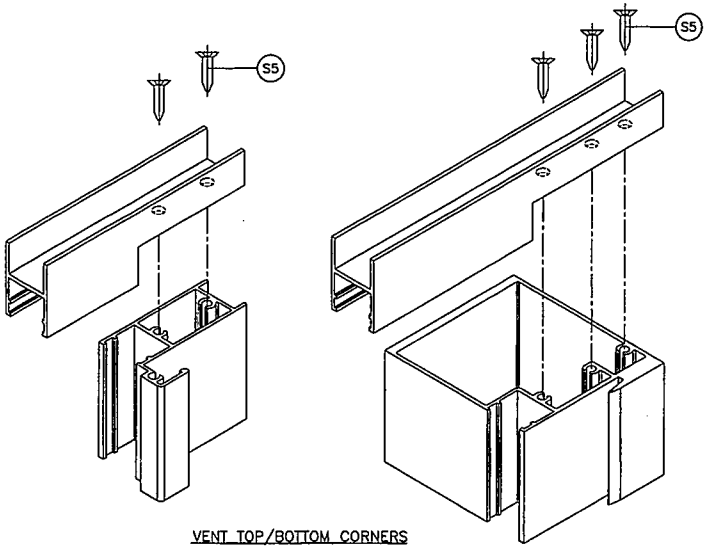
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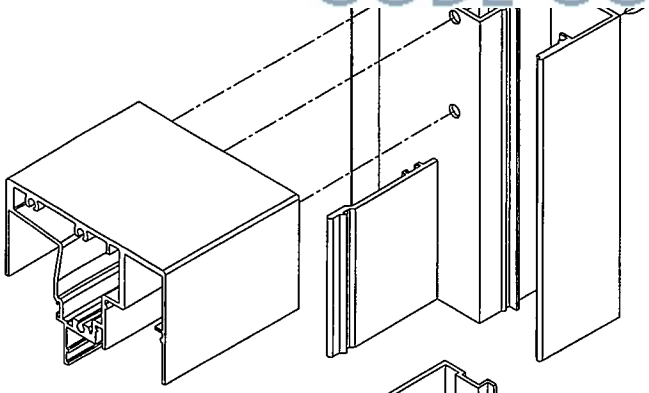
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dr. by: TARIQ
chk. by:

drawing no. W06-3779
sheet 6 of 7

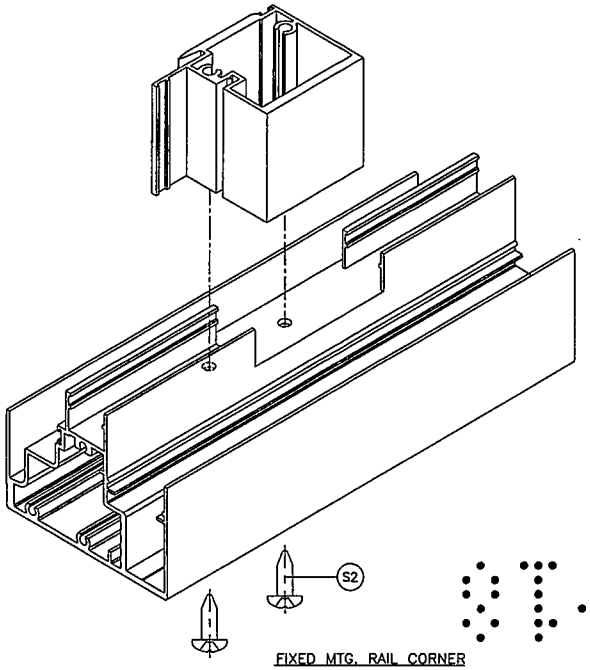
MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE



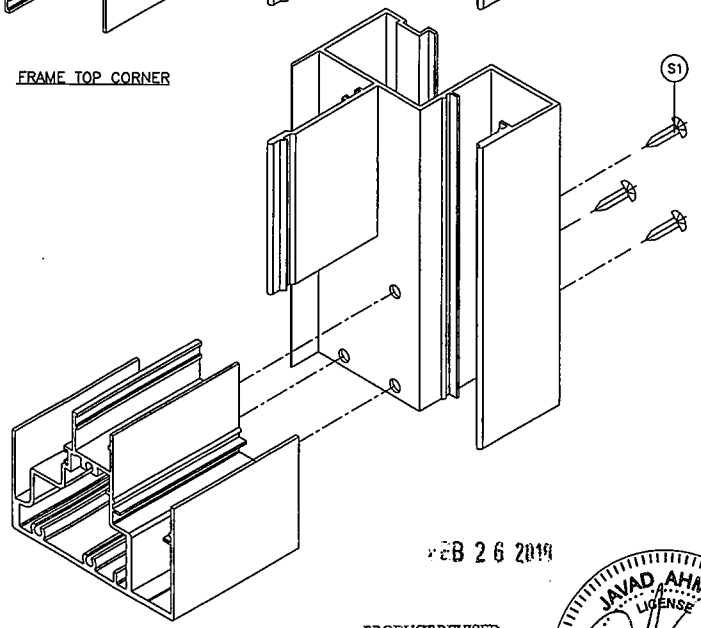
VENT TOP/BOTTOM CORNERS



FRAME TOP CORNER



FIXED MTG. RAIL CORNER



FRAME BOTTOM CORNER

FEB 26 2019

PRODUCT REVISED
as complying with the Florida
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Acceptance No. 18-0301.12
Expiration Date 09/07/2021
By
Miami Dade Product Control

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

01-21-19

9H0

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ENGINEERS & PRODUCT DEVEL
9360 SUNSET DRIVE, SUITE 22(
MIAMI, FLORIDA 33173
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SERIES HR2600 ALUM HORIZONTAL SLIDING WDW.(S.M.I.)

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date: 06-20-06
scale: 1/2" = 1"
dr. by: TARO
chk. by:

drawing no.
W06-37.80

sheet 7 of 7

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOUR
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

E.S. Windows, LLC
10653 NE Quaybridge Ct.
Miami, Fl.33138

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 ES-9100 Aluminum Outswing Door -S.M.I.

APPROVAL DOCUMENT: Drawing No. **W17-60 Rev A**, titled "Series ES-9100 Aluminum Outswing Door (S.M.I.)", sheets 1 through 7 of 7, dated OCT 03, 2017, prepared by AL-Farooq Corporation, signed and sealed by Javad Ahmad, 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: Small Missile Impact Resistant

Limitations:

1. See sheet 1 for Design Pressure ratings per glass types.
2. Only anchor type "B" is applicable at sill installation.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Baranquilla, Colombia,S.A. and 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, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

MIAMI-DADE COUNTY APPROVED

10/3/17

NOA No. 17-0802.15
Expiration Date: October 12, 2022
Approval Date: October 12, 2017
Page 1

MIAMI-DADE REVIEWED FOR CODE COMPLIANCE

NOTICE OF ACCEPTAI

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W17-60 rev A**, titled "Series ES-9100 Aluminum Outswing Door (S.M.I.)", sheets 1 through 7 of 7, dated OCT 03, 2017, prepared by AL-Farooq Corporation, signed and sealed by Javad Ahmad, 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(Not performed)
   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, TAS 202-94

Along with marked-up drawings and installation diagram of Alum Single Outswing Doors, prepared by Blackwater Testing, Inc., Test Report No. **BT-ESW-17-014**, dated 05/12/17, signed and sealed by Constantin Brotes, P.E.

Additional Test report along with marked-up Dwg. of single (X) aluminum outswing doors, issued by Fenestration Testing lab, Inc., Test Report No. **FTL-8605**, dtd 08/08/16 signed & sealed by Idalmis Ortega, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2017 (6th Edition), prepared by Al-Farooq Corp., dated JUL 05, 2017 and last revised on 10/03/17, signed & sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTME-1300-02, -04 & -09.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** (Former E.I. DuPont DeNemours & Co., Inc. for the "**Sentry Glass ® (Clear and White) Glass Interlayers**", expiring on 07/04/18.
2. Notice of Acceptance No. **16-1117.01** issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for "**Trosifol**: Ultra clear, clear & color PVB glass interlayer" (former "Kuraray **Butacite** PVB Interlayer)", expiring on 07/08/19.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0802.15
Expiration Date: October 12, 2022
Approval Date: October 12, 2017

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

NOTICE OF ACCI

E. MATERIAL CERTIFICATIONS (continue):

3. Notice of Acceptance No. **15-1201.11** issued to Eastman Chemical Company (MA) former Solutia Inc. for their "**Saflex Clear or colored interlayer**", expiring on 05/21/21.

F. STATEMENTS

1. Statement letter of conformance to FBC 2017 (6th Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 06/22/17, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.

G. OTHER

1. Test proposal dated 12/09/14, approved by Jaime D. Gascon, P.E.
2. Distribution agreement ES Windows-Energia Solar, S.A. and ES Windows, LLC, dated 10/20/10, signed by Ms. Carla G. Torrente and Andres Chamorro respectively (submitted under previous file)

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0802.15
Expiration Date: October 12, 2022
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MIAMIBEACH
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GLASS D.L.O. FORMULAE:
D.L.O. WIDTH = FRAME WIDTH − 14.0" (STD. JAMBS)
D.L.O. WIDTH = FRAME WIDTH − 11.0" (NARROW JAMBS)
D.L.O. HEIGHT = FRAME HEIGHT − 15.750"

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

ES-9100
ALUMINUM OUTSWING ENTRANCE DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION)/2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

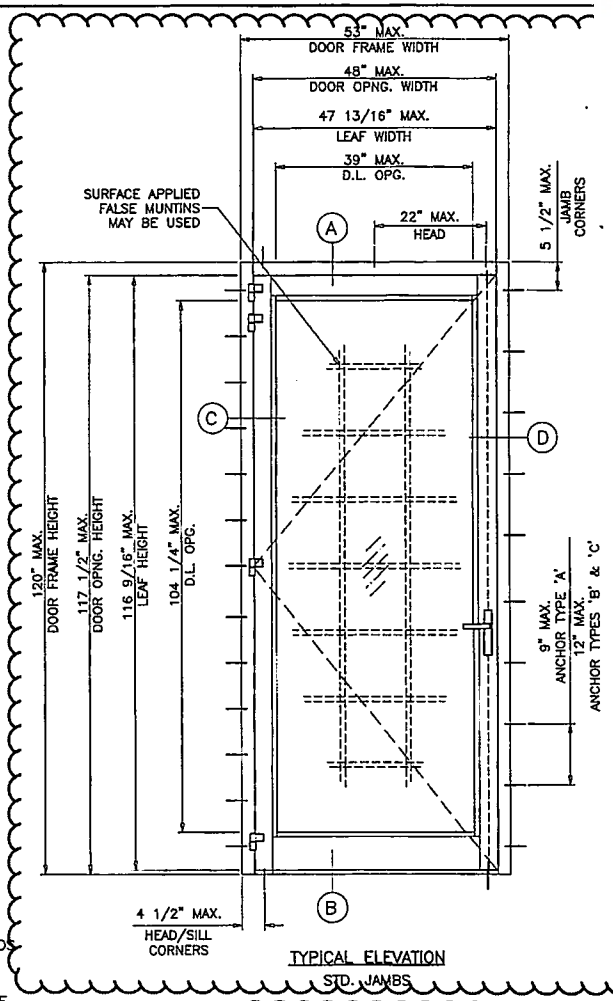
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

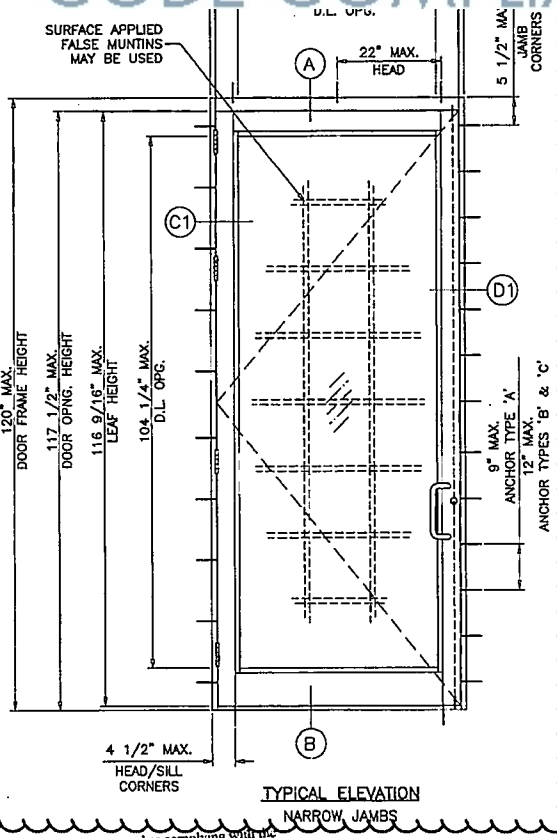
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2014/2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.



TYPICAL ELEVATION
STD. JAMBS



TYPICAL ELEVATION
NARROW JAMBS

GLASS TYPES 'A', 'A2i' & 'A3i'		
MAXIMUM DESIGN LOAD RATING	= +	120.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC	−	150.0 PSF

GLASS TYPE A1i		
MAXIMUM DESIGN LOAD RATING	= +	120.0 PSF
(FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC	−	144.0 PSF

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY EGRESS REQUIREMENTS PER FBC AS APPLICABLE.

Approved as complying with the Florida Building Code
Date OCT 12, 2017
NOA# 17-0202.15
Miami Dade Product Control
By

OCT 13 2017

JAVAD AHMAD
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ES-9100 ALUMINUM OUTSWING DOOR (S.M.I.)

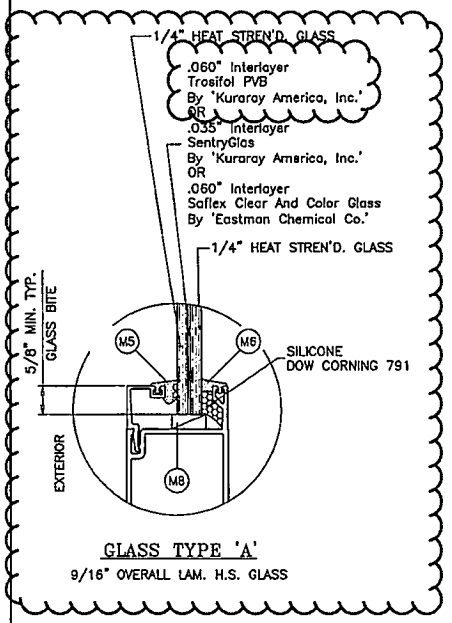
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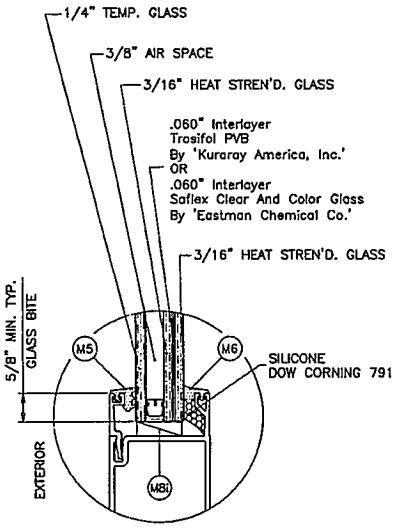
drawing no.
W17-60
sheet 1 of 7

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REVIEWED FOR
CODE COMPLIANCE



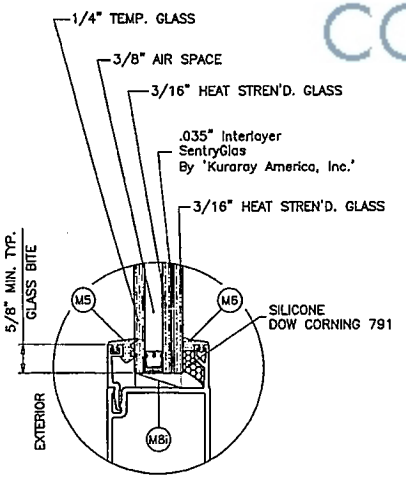
GLASS TYPE 'A'

9/16" OVERALL LAM. H.S. GLASS



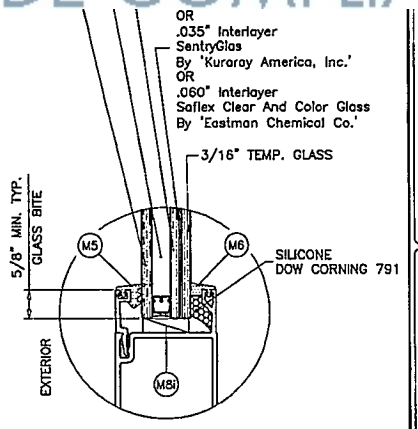
GLASS TYPE 'A1i'

1-1/16" OVERALL INSUL. LAM. H.S. GLASS



GLASS TYPE 'A2i'

1-1/16" OVERALL INSUL. LAM. H.S. GLASS



GLASS TYPE 'A3i'

1-1/16" OVERALL INSUL. LAM. TEMP. GLASS

GLAZING OPTIONS

3/8" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOW CORNING 791

Accepted as complying with the
Florida Building Code
Date 10/12/17
NOA# 17-0802.15
Miami Dade Product Control
By Ching L. Chan

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

91-21-90

GHO

AL-FAROOQ CORPO
ENGINEERS & PRODUCT DEVEL
9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX. (3

ES-9100 ALUMINUM OUTSWING DOOR (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL (305) 638-5151 FAX. (305) 638-5158

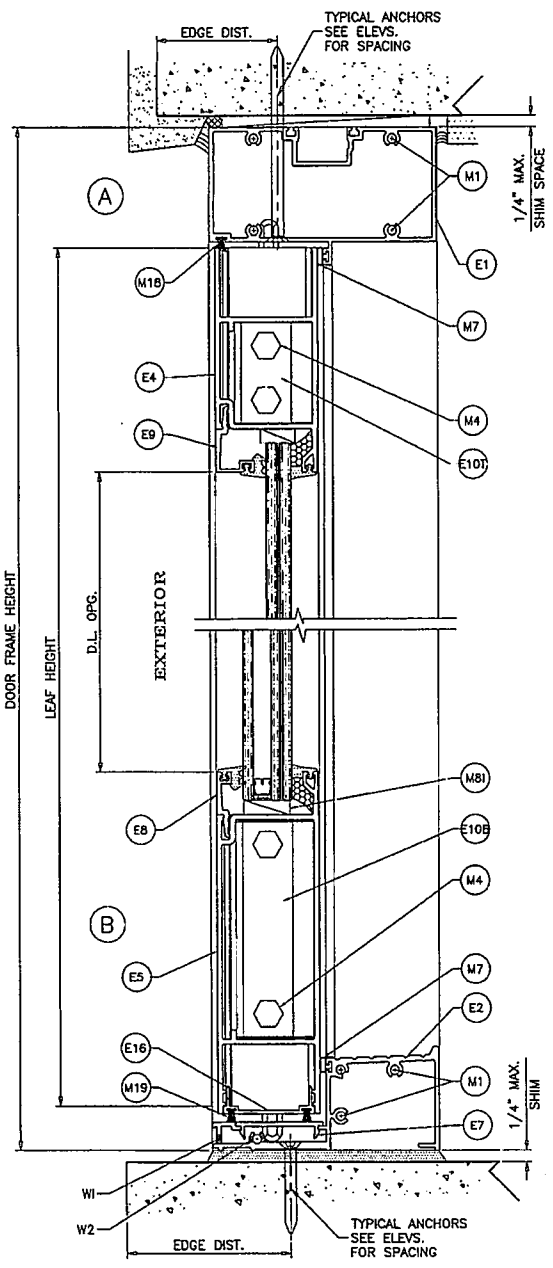
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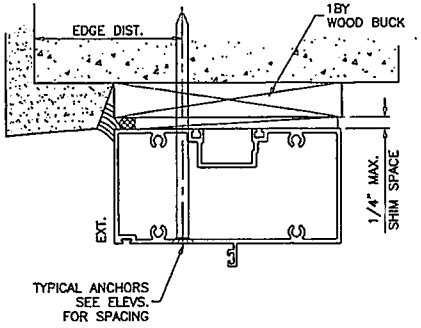
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dr. by: TARIQ
chk. by:

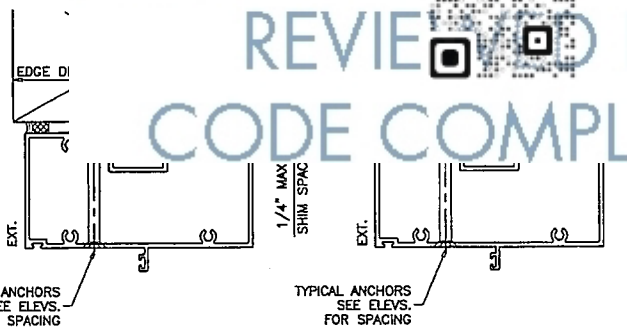
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W17-60

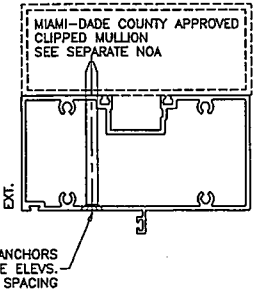
sheet 2 of 7

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE









WOOD BUCKS AND METAL STRUCTURE NOT BY E.S. WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO MASONRY (JAMBS)

DIRECTLY INTO FILLED BLOCKS
1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPE 'B'– 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

TYPE 'C'– 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

WEEPHOLES:
W1 = 2" X 3/16" WEEP HOLES AT 1" FROM EACH END AND AT MIDSPAN
W2 = 3/4" WEEP NOTCH AT 3/4" FROM EACH END

Approved as complying with the Florida Building Code
Date _____
NOA# _____
Miami Dade Product Control
By _____

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORP
ENGINEERS & PRODUCT DEVEL
9360 SUNSET DRIVE, SUITE 22
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (3

ES-9100 ALUMINUM OUTSWING DOOR (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL (305) 638-5151 FAX. (305) 638-5158

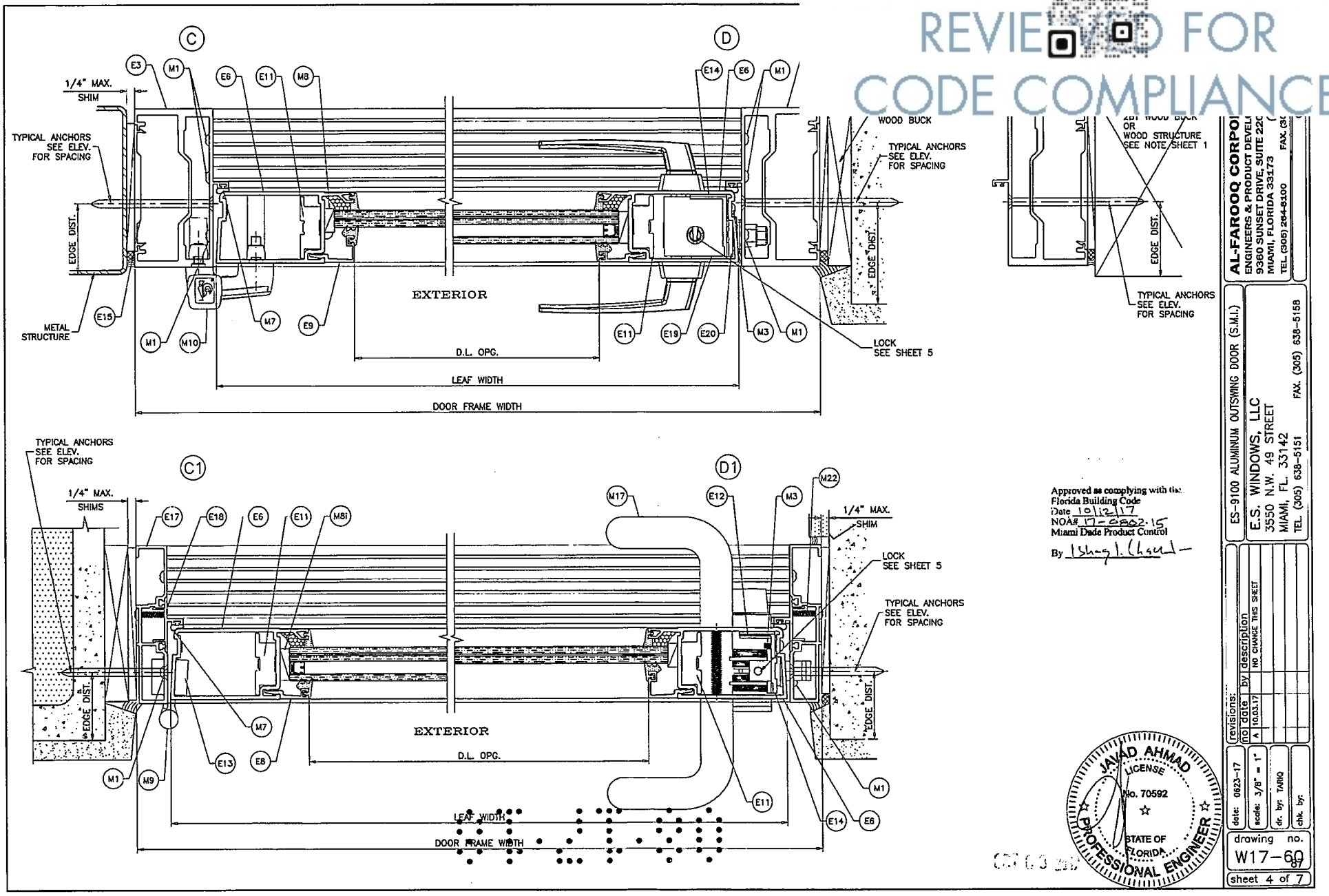
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no	date	by	description
A	10.03.17		NO CHANGE THIS SHEET

date: 0623-17 | scale: 3/8" = 1" | dr. by: TARIQ | chk. by:

drawing no. W17-60

sheet 3 of 7

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE



Approved as complying with the
Florida Building Code
Date 10/12/17
NOA# 17-0802.15
Miami Dade Product Control
By Ishaq I. Ghani

JAVAD AHMAD
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STATE OF
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PROFESSIONAL ENGINEER

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chk. by:

drawing no.
W17-60
sheet 4 of 7

MIAMIBEACH
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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-9012	1	DOOR FRAME HEAD	6063-T6	-
E2	ES-9026	1	FRAME SILL	6063-T6	-
E3	ES-9013	2	FRAME JAMB (STD.)	6063-T6	-
E4	ES-9001	1	TOP RAIL	6063-T5	-
E5	ES-9002	1	BOTTOM RAIL	6063-T5	-
E6	ES-9003	2	HINGE/LOCK STILE	6063-T5	-
E7	ES-9027	1	SILL COVER	6063-T5	-
E8	ES-9029	4/ LEAF	GLASS STOP (INSUL. LAM. GLASS)	6063-T5	-
E9	ES-9004	4/ LEAF	GLASS STOP (LAM. GLASS)	6063-T5	-
E10	ES-9008	AS REQD.	CORNER BLOCK	6063-T5	-
E11	ES-9009	AS REQD.	CORNER PLATE	6063-T5	-
E12	ES-9010	AS REQD.	SUPPORT ANGLE	6063-T5	-
E13	ES-9011	AS REQD.	HINGE BACKUP PLATE	6063-T5	-
E14	ES-9020	AS REQD.	LOCK BACKUP PLATE	6063-T5	-
E15	ES-9016	AS REQD.	SHEAR CLIP	6063-T5	-
E16	ES-9005	AS REQD.	W'STRIP ADAPTER	6063-T5	-
E17	ES-7530-213	2	FRAME JAMB (NARROW)	6063-T6	-
E18	ES-7530-214	2	DOOR STOP	6063-T6	-
E19	ALU-A-027	2	BOLT GUIDE ANGLE (2 X 2 X 1/8")	6063-T6	AT TOP & BOTTOM OF LOCK STILE
E20	ALU-P-030	-	LOCK SPACER PLATE (1-1/2" X 1/8")	6063-T6	-
M1	#12 X 1"	AS REQD.	FRAME/LEAF ASSEMBLY FASTENERS	ST/ST	PH SMS
M2	12-24 X 1/2"	AS REQD.	HINGE, INTER. PIVOT & SILL SLIP	ST/ST	FH MS
M3	8-32 X 1/2"	AS REQD.	BOLT GUIDE ANGLE & LOCK BACKUP PLATE FASTENERS	ST/ST	PH SMS
M4	3/8-16 X 1"	AS REQD.	LEAF ASSEMBLY FASTENERS	ST/ST	HEX BOLT
M5	ES-9000-G01	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
M6	ES-9000-G02	AS REQD.	INTERIOR GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
M7	ES-9000-G03	AS REQD.	BULB W'STRIPPING	TPE/POLYPROPYLENE	-
M8	ES-9000-B01	2/ LITE	SETTING BLOCKS (LAM. GLASS) AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M8i	ES-9000-B02A	2/ LITE	SETTING BLOCKS (INSUL. LAM. GLASS) AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M9	-	AS REQD.	BUTT HINGES (4 X 4-1/2")	ST/ST	-
M10	60 AT	AS REQD.	RESIDENTIAL HINGES	-	DR. HAHN
M17	-	AS REQD.	DOOR PUSH/PULL	-	-
M18	W13272NK	AS REQD.	PILE W'STRIPPING AT HEAD	WOOL	-
M19	W13351NK	AS REQD.	PILE W'STRIPPING	WOOL	-
M21	#8 X 1"	AS REQD.	KEEPER FASTENERS	ST/ST	FH SMS
M22	#12 X 2"	AS REQD.	FRAME SILL ASSEMBLY FASTENERS (NARROW JAMB)	ST/ST	PH SMS

BY 'INTERLOCK USA'
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
LEVER TYPE HANDLE AT 38" FROM BOTTOM ACTIVATES SHOOT BOLTS ENGAGING AT HEAD AND SILL
FASTENED WITH
(2) #10 X 3/4" FH SMS

OPTION #2:

SURFACE MOUNT 3 POINT LOCK SYSTEM (MS1953-350)
BY 'ADAMS RITE'
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
FASTENED WITH (4) #8 X 1/2" FH SMS
LEVER TYPE HANDLE AT 38" FROM BOTTOM ACTIVATES SHOOT BOLTS ENGAGING AT HEAD AND SILL
FASTENED WITH
(2) 8-32 X 2-1/2" OH MACHINE SCREWS

HINGES:

OPTION #1:

4-1/2" LONG FLUSH MOUNT STEEL BUTT HINGES
BY 'INTERLOCK USA', (4) PER LEAF
TOP AND BOTTOM HINGES AT 9" FROM EACH END
INTERMEDIATE HINGES AT 34" O.C. MAX.
FASTENED WITH 12-24 X 1/2" FH MACHINE SCREWS
FOUR PER HASP(LEAF).

OPTION #2:

SERIES 60AT DIE CAST ALUMINUM HINGE
BY 'DR HAHN'
(2) AT 6" AND 12" FROM TOP
(1) AT 6" FROM BOTTOM
(1) AT MIDSPAN

Approved as complying with the Florida Building Code
Date 10/12/17
NOA# 17-0802.15
Miami Dade Product Control
By

SEALANTS:

ALL FRAME JOINTS AND SEAMS SEALED WITH DOW CORNING 791 SILICONE.

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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TEL (305) 264-8100 FAX.

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no	date	by	description
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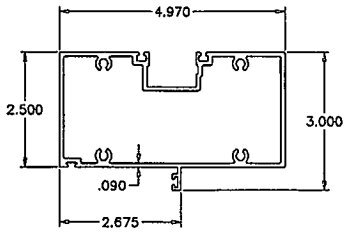
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dr. by: TARIQ
chk. by:

drawing no. W17-60
sheet 5 of 7

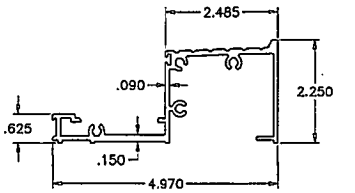
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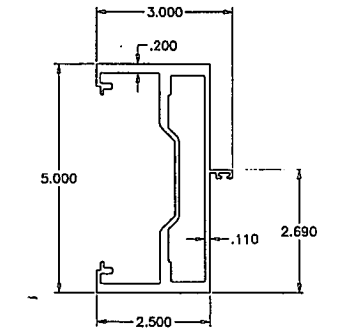
MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE



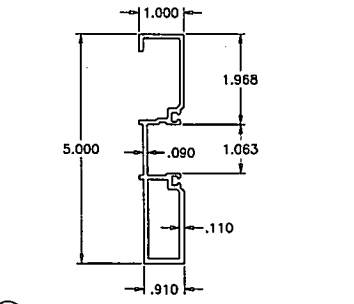
E1 FRAME HEAD



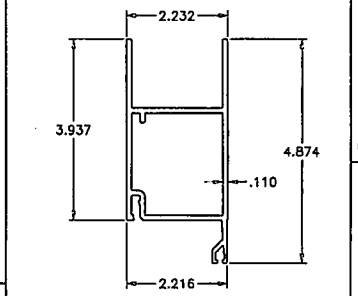
E2 FRAME SILL



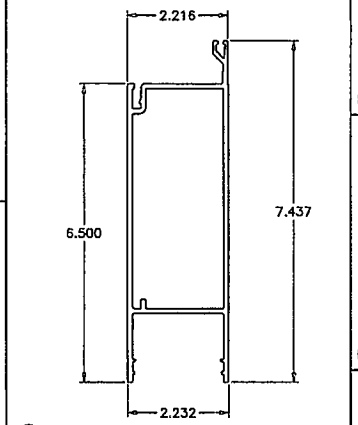
E3 FRAME JAMB (STD.)



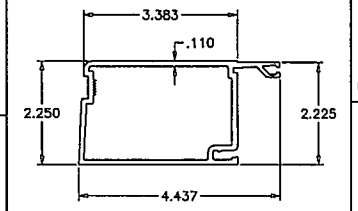
E17 FRAME JAMB (NARROW)



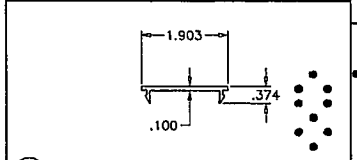
E4 TOP RAIL



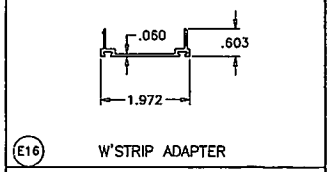
E5 BOTTOM RAIL



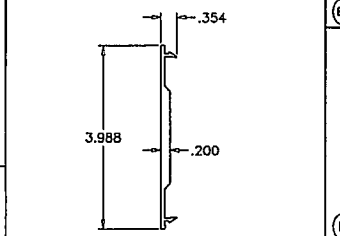
E6 HINGE/LOCK STILE



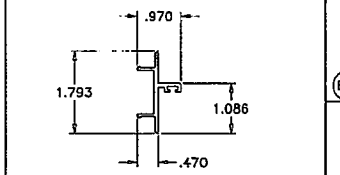
E7 FRAME SILL COVER



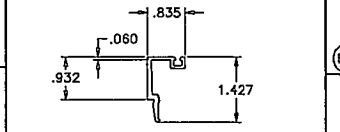
E16 W'STRIP ADAPTER



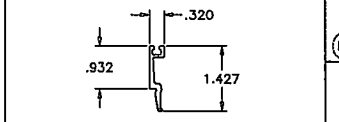
E15 SHEAR CLIP



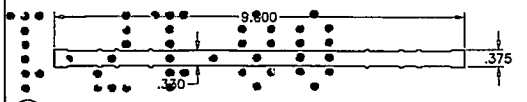
E18 DOOR STOP



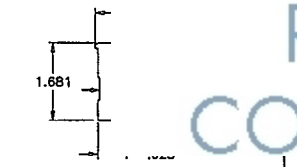
E9 GLASS STOP (LAM. GLASS)



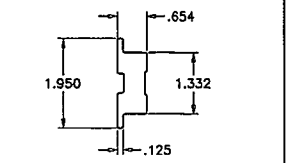
E8 GLASS STOP (INSUL. LAM. GLASS)



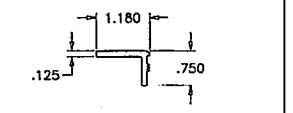
E13 HINGE BACKUP PLATE



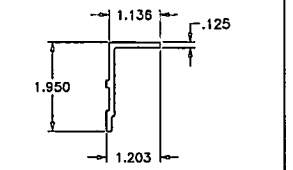
E10 CORNER BLOCK



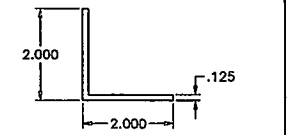
E11 CORNER PLATE



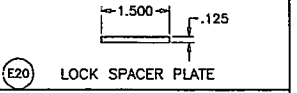
E12 SUPPORT ANGLE



E14 LOCK BACKUP PLATE



E19 BOLT GUIDE ANGLE



E20 LOCK SPACER PLATE

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NOA# 17-0502.15
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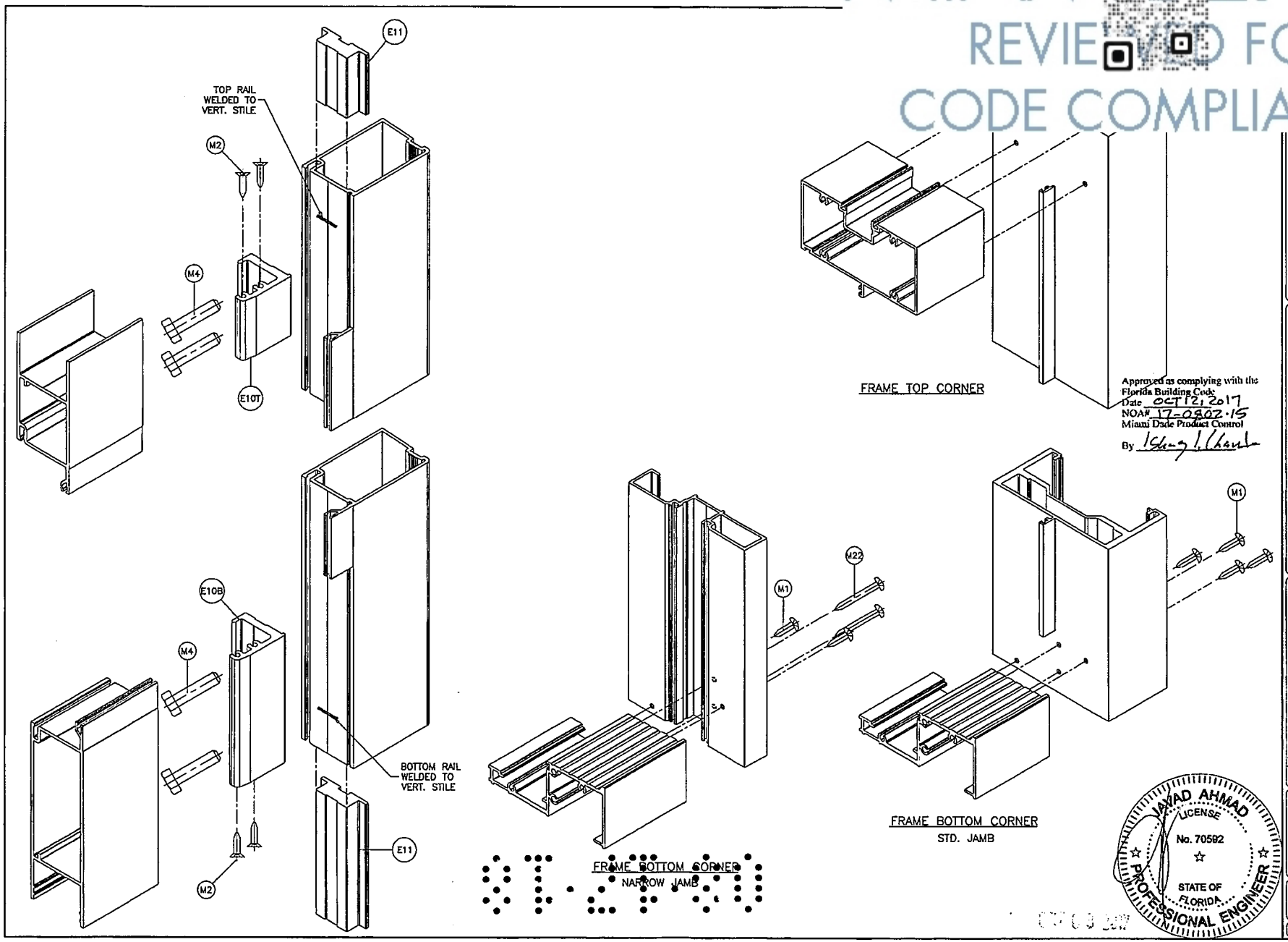
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W17-60
sheet 6 of 7

MIAMI BEACH
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FRAME TOP CORNER

FRAME BOTTOM CORNER
NARROW JAMB

FRAME BOTTOM CORNER
STD. JAMB

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Date OCT 12, 2017
NOA# 17-0802.15
Miami Dade Product Control
By

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TEL (305) 264-8100 FAX. (3

ES-9100 ALUMINUM OUTSWING DOOR (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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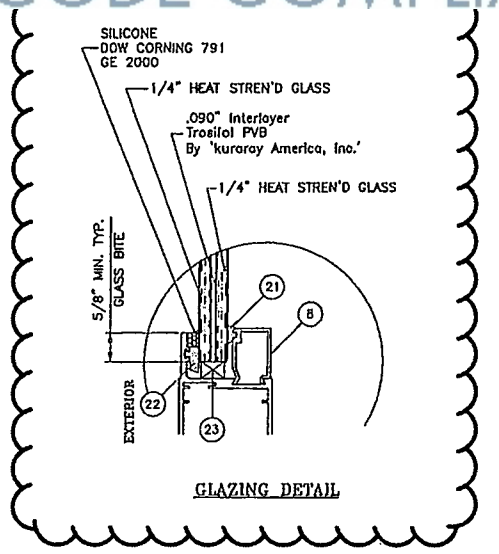
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9140

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE



GLAZING DETAIL

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS REQUIRED
FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

SERIES ENV-350 (S.M.I.)
ALUMINUM OUTSWING ENTRANCE DOOR

THESE DOORS MAY BE USED IN CONJUNCTION WITH F.B.C. APPR'D SMALL MISSILE IMPACT RESISTANT STOREFRONT SYSTEM. LOWER DESIGN PRESSURE FROM DOOR OR STOREFRONT APPROVAL WILL APPLY TO ENTIRE SYSTEM.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2014 (5TH EDITION)/2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2014/2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

FL #20701
Sealed: 08/08/2017

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
C- 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.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

AL-FAROOQ CORPOR
ENGINEERS & PRODUCT DEVELOF
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.
TEL. (305) 264-8100 FAX. (305
CO

SERIES ENV-350 OUTSWING ENTRANCE DOOR (S.M.I.)

ENVIRALUM INDUSTRIES INC.
5110 N.W. 72 AVENUE BLDG. C
MIAMI, FL. 33166
TEL. (305) 752-4411 FAX. (305) 406-3877

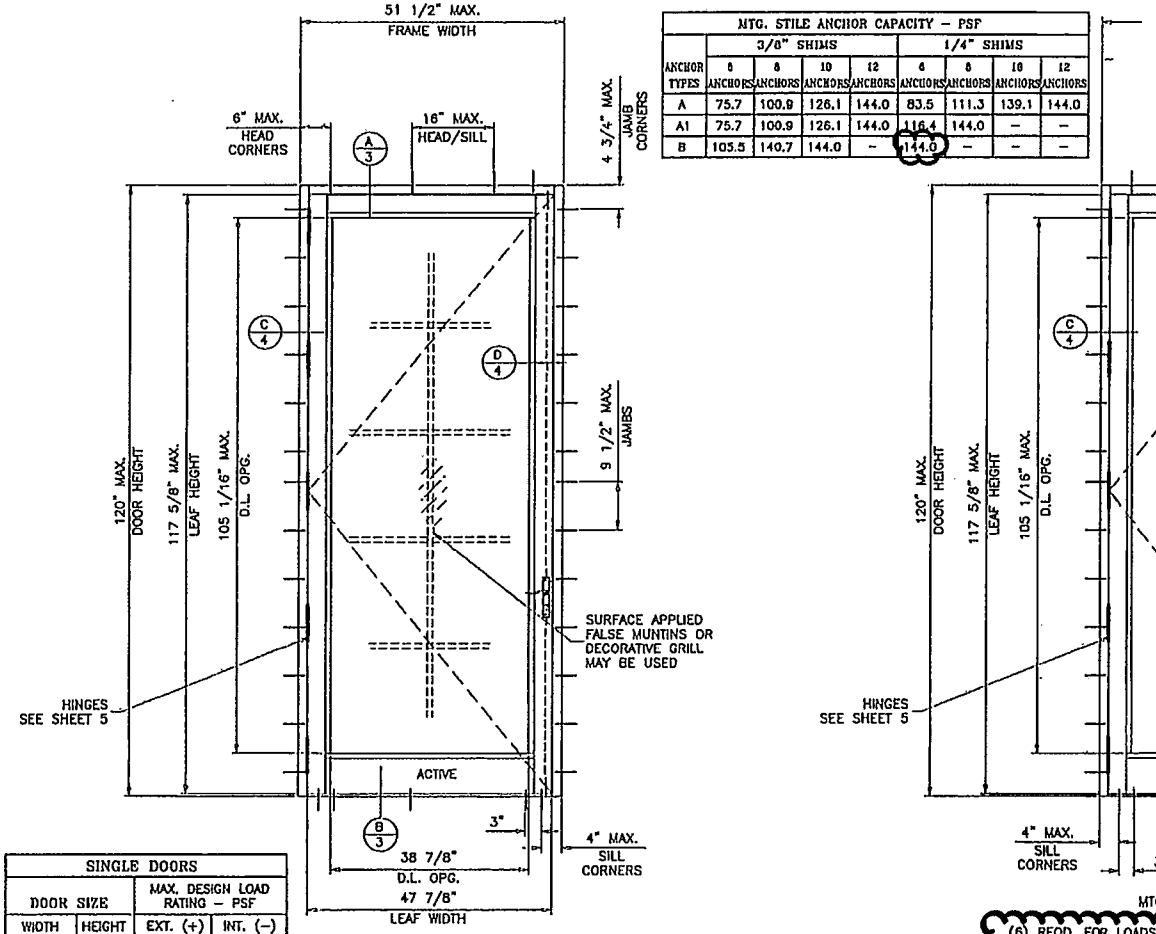
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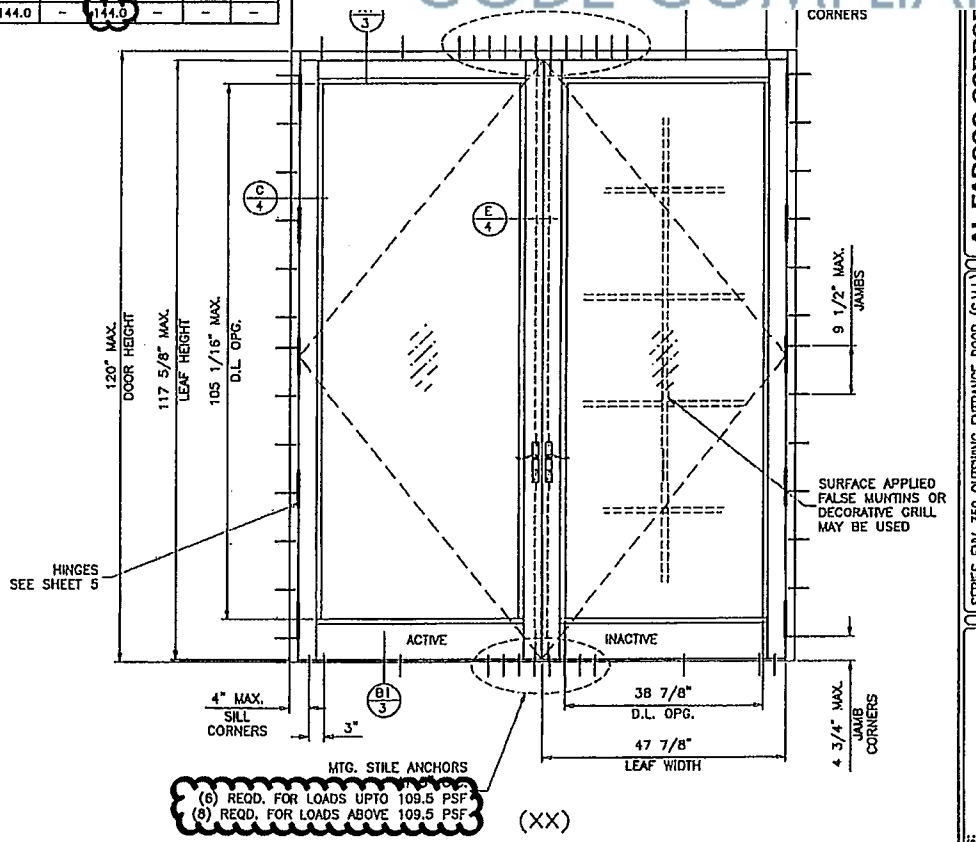
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sheet 1 of 7

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE



MTG. STILE ANCHOR CAPACITY – PSF								
	3/8" SHIMS				1/4" SHIMS			
ANCHOR TYPES	6 ANCHORS	8 ANCHORS	10 ANCHORS	12 ANCHORS	6 ANCHORS	8 ANCHORS	10 ANCHORS	12 ANCHORS
A	75.7	100.9	126.1	144.0	83.5	111.3	139.1	144.0
A1	75.7	100.9	126.1	144.0	116.4	144.0	–	–
B	105.5	140.7	144.0	–	144.0	–	–	–



SINGLE DOORS			
DOOR SIZE		MAX. DESIGN LOAD RATING – PSF	
WIDTH	HEIGHT	EXT. (+)	INT. (–)
36"	96"	100.0	144.0
42"		100.0	144.0
48"		96.6	144.0
51–1/2"		90.0	144.0
36"	108"	100.0	144.0
42"		98.1	144.0
48"		85.8	144.0
51–1/2"		80.0	144.0
36"	120"	100.0	144.0
42"		88.3	144.0
48"		77.3	144.0
51–1/2"		72.0	144.0

APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

GLASS D.L.O. DIMS.
D.L.O. HEIGHT = DOOR FRAME HEIGHT – 14.9375"
D.L.O. WIDTH (X DOORS) = FRAME WIDTH – 12.8125"
D.L.O. WIDTH (XX DOORS) = (FRAME WIDTH – 21.875")/2

DOUBLE DOORS
MAXIMUM DESIGN LOAD RATING = + 72.0 PSF
(FOR SIZE SHOWN ABOVE OR SMALLER) – 144.0 PSF
NOT APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300–09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05–DEC–219

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #20701
Sealed: 08/08/2017

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ENGINEERS & PRODUCT DEVELO
9360 SUNSET DRIVE, SUITE 220
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CO

SERIES ENV-350 OUTSWING ENTRANCE DOOR (S.M.L.)

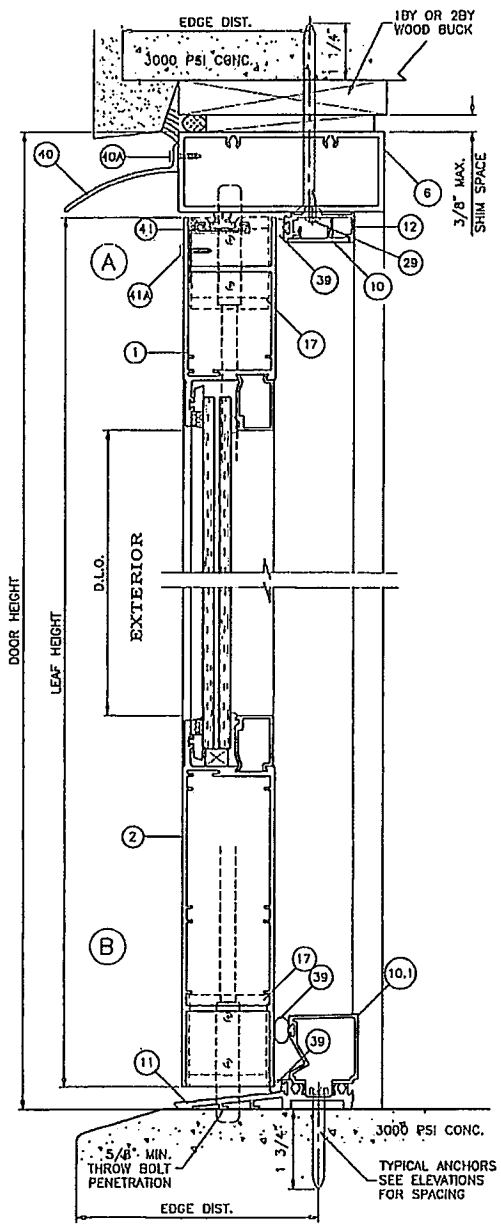
ENVIRALUM INDUSTRIES INC.
5110 N.W. 72 AVENUE BLDG. C
MIAMI, FL 33166
TEL. (305) 752-4411 FAX. (305) 406-3877

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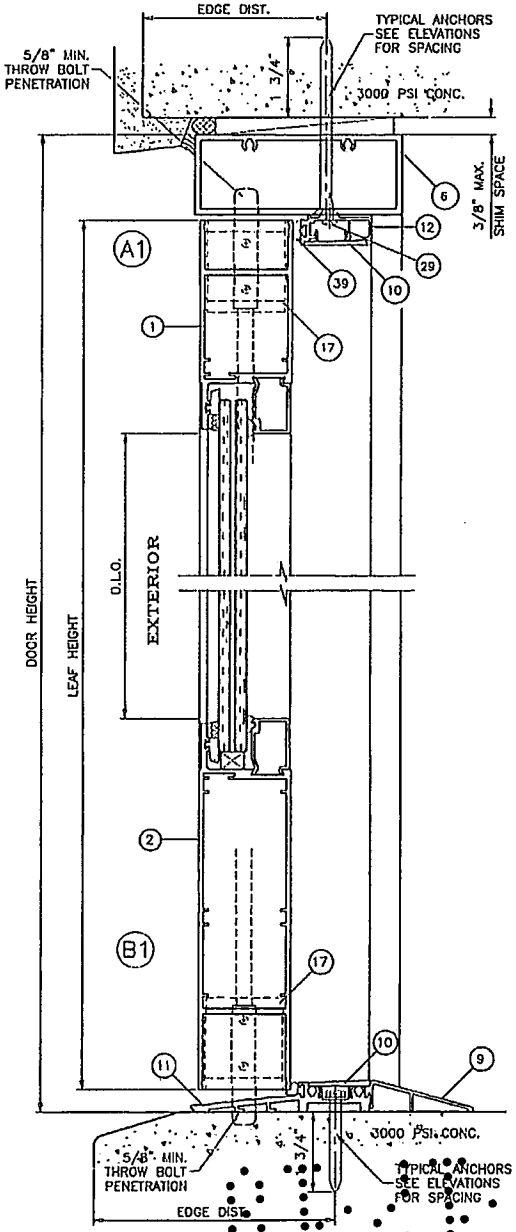
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sheet 2 of 7

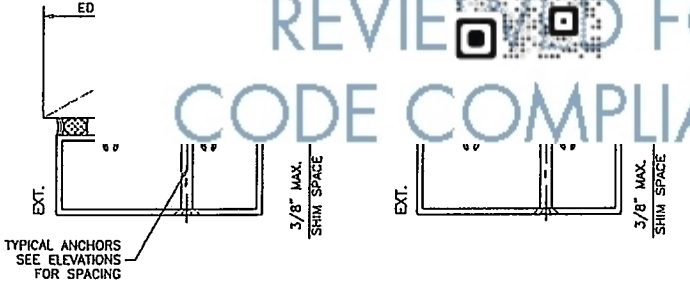
MIAMI BEACH
REVIEWED FOR
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SINGLE DOORS APPROVED FOR WATER INFILTRATION RESISTANCE



DOUBLE DOORS NOT APPROVED FOR WATER INFILTRATION RESISTANCE



WOOD BUCKS AND METAL STRUCTURE NOT BY ENVIRALUM MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'
5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO WOOD STRUCTURES
1-7/8" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)
THRU 1BY OR 2BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO MASONRY (JAMBS)
TYPICAL EDGE DISTANCE
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

TYPE 'A1'
5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONC. OR MASONRY
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)
TYPICAL EDGE DISTANCE
INTO CONCRETE AND MASONRY = 2-1/2" MIN.

TYPE 'B'
5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO METAL STRUCTURES
STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.) (NO SHIM SPACE)
TYPICAL EDGE DISTANCE
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

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JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #20701

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CO

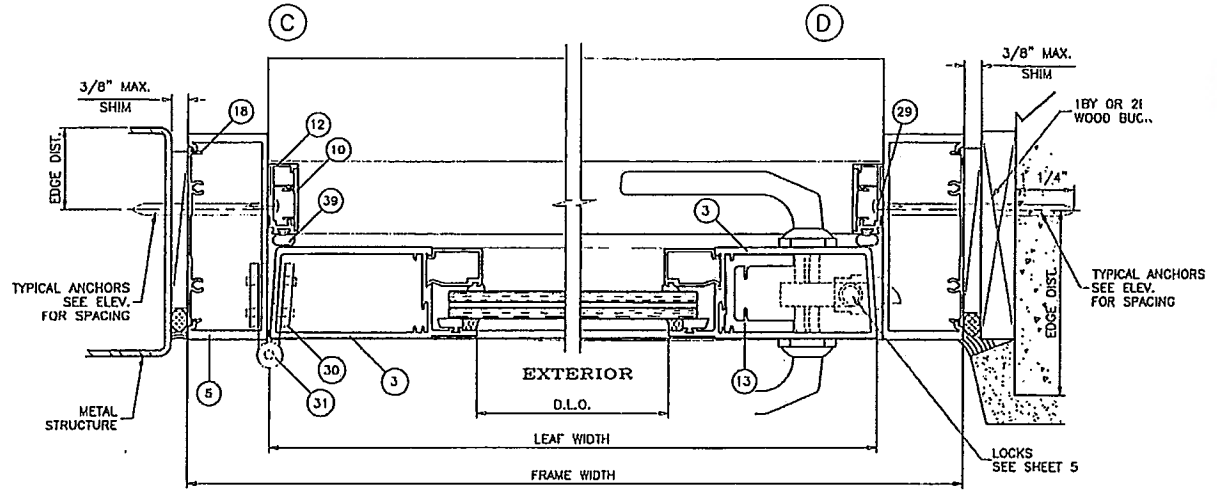
SERIES EW-350 OUTSWING ENTRANCE DOOR (S.M.I.)
ENVIRALUM INDUSTRIES INC.
5110 N.W. 72 AVENUE BLDG. C
MIAMI, FL 33166
TEL. (305) 752-4411 FAX. (305) 406-3877

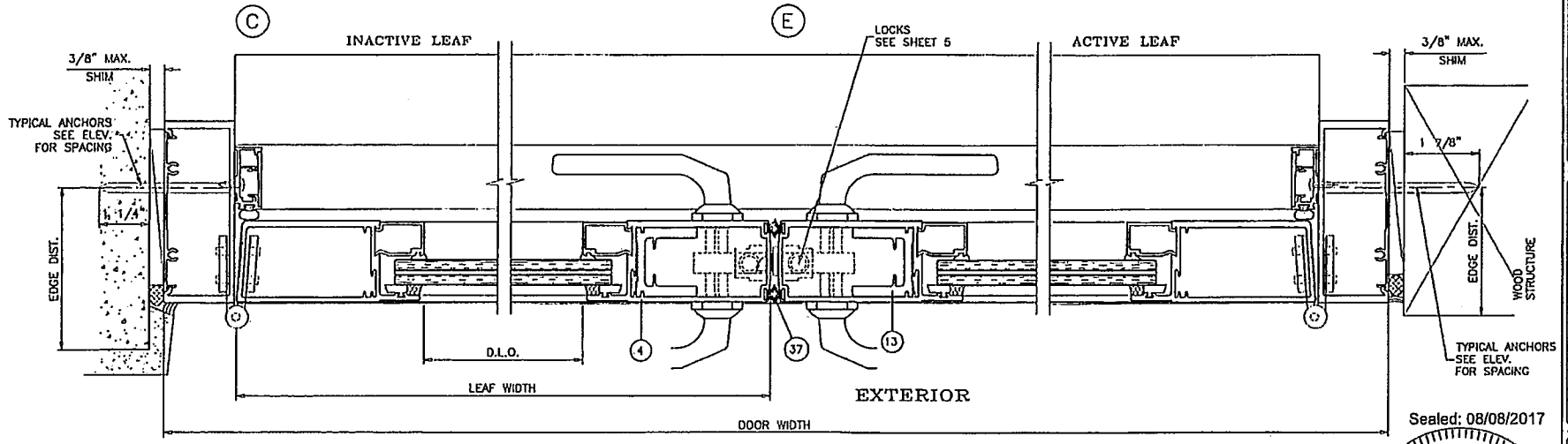
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MIAMI BEACH
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Sealed: 08/08/2017

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #20701

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AL-FAROOQ CORPOR
ENGINEERS & PRODUCT DEVELOP
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305)

SERIES ENV-350 OUTSWING ENTRANCE DOOR (S.M.I.)

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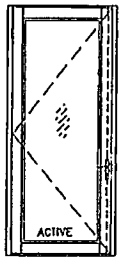
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sheet 4 of 7

MIAMIBEACH
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LOCKS: (SINGLE DOORS)

3 POINT LOCK SYSTEM BY 'INTERLOCK' AT 39" FROM BOTTOM
HANDLE ACTIVATES DEAD BOLT AND SHOOT BOLTS ENGAGING AT HEAD AND SILL
KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
FASTENED TO ACTIVE LEAF LOCK STILE WITH
(2) #8-32 X 2" OH MS



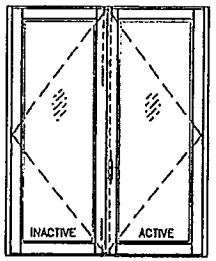
LOCKS: (DOUBLE DOORS)

ACTIVE LEAF:

THREE POINT LOCK SYSTEM SERIES 2222 BY 'REGENT HARDWARE'
KEY OPERATED FROM EXTERIOR AND THUMB TURN ON INTERIOR WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE
LOCATED AT 34" FROM BOTTOM OF LEAF

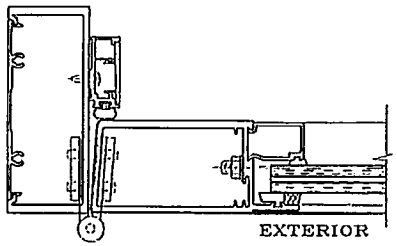
INACTIVE LEAF:

MANUALLY OPERATED TWO POINT LOCK SYSTEM BY 'REGENT HARDWARE' WITH CONCEALED FLUSH BOLTS AT TOP & BOTTOM OF LOCK STILE
FASTENED WITH
(2) #8-32 X 1/4" PH MACHINE SCREWS



HINGES:

4" X 4-1/2" X .130" THK. ST. STEEL KNUCKLE HINGE
SERIES 4001 BY 'REGENT HARDWARE' OR
SERIES FBB 191 BY 'STANLEY SECURITY SOLUTIONS' OR
SERIES TA2314/TA2714 BY 'MCKINNEY ASSA ABLOY'
3 PER LEAF
TOP/BOTTOM HINGES AT 7" FROM EACH END
CENTER HINGE AT MIDSPAN
FASTENED TO
FRAME JAMB WITH (4) 12-24 X 1/2" FH MS
DOOR STILE WITH (4) 12-24 X 1/2" FH MS



ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION		
1	ENV-351	1/ LEAF	TOP RAIL	6063-T6	ENVIRALUM
2	ENV-352	1/ LEAF	BOTTOM RAIL (8"	6063-T6	ENVIRALUM
2.1	ENV-3521	1/ LEAF	ALT. BOTTOM RAI	6063-T6	ENVIRALUM
3	ENV-353	1/ LEAF	HINGE STILE	6063-T6	ENVIRALUM
4	ENV-354	1/ LEAF	LOCK STILE	6063-T6	ENVIRALUM
5	ENV-355	2/ DOOR	FRAME JAMB	6063-T6	ENVIRALUM
6	ENV-356	1/ DOOR	FRAME HEAD	6063-T6	ENVIRALUM
8	ENV-358	4/ LITE	GLASS STOP (LAMINATED GLASS)	6063-T6	ENVIRALUM
9	ENV-359	AS REQD.	THRESHOLD RAMP	6063-T6	ENVIRALUM
10	ENV-3510	AS REQD.	DOOR STOP COVER	6063-T6	ENVIRALUM
10.1	ENV-3518	AS REQD.	THRESHOLD COVER (HI-RISE)	6063-T6	ENVIRALUM
11	ENV-3511	1/ DOOR	THRESHOLD	6063-T6	ENVIRALUM
12	ENV-3512	3/ DOOR	DOOR STOP	6063-T6	ENVIRALUM
13	ENV-3513	1/ LEAF	STILE REINFORCEMENT	6063-T6	ENVIRALUM
16	ENV-3516	1/ LEAF CORNER	SHEAR BLOCK	6063-T6	ENVIRALUM
17	ENV-GC01	2/ LEAF	GUIDE CHANNEL FOR TOP & BOTTOM PIN	6063-T6	ENVIRALUM
18	ENV-454	AS REQD.	FLAT SHAP, 3" LONG	6063-T6	ENVIRALUM
21	ENV-G04	AS REQD.	INTERIOR GASKET	EPDM	GLAZING RUBBER PRODUCTS
22	ENV-G08	AS REQD.	SPACER GASKET	EPDM	GLAZING RUBBER PRODUCTS
23	ENV-SB01	1/ QUARTER POINT	3/8" X 1/2" X 2" SETTING BLOCKS, DUROMETER 80±5	EPDM	GLAZING RUBBER PRODUCTS
25	DOW 791	AS REQD.	GLAZING COMPOUND	SILICONE	DOW CORNING
26	GE SCS2000	AS REQD.	GLAZING COMPOUND	SILICONE	GE MOMENTIVE
27	#12 X 1-1/2	4/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	HWH SMS, AT 16" O.C.
29	#8 X 5/8"	AS REQD.	DOOR STOP ASSEMBLY SCREWS, @ 3" FROM ENDS & 20" O.C.	ST. STEEL	HWH SMS
30	ENV-BP1	2/ HINGE	HINGE BACKING PLATE, 1-1/2" X 1/4" THK. X 8-3/8" LONG	ALUMINUM	-
31	-	3/ LEAF	4-1/2" X 4" BUTT HINGES	ST. STEEL	-
33	1/4-20 X 1"	10/ LEAF	CORNER BLOCK ASSEMBLY	ST. STEEL	HEX HEAD BOLT W/ WASHER
37	ENV-WP1	AS REQD.	WOOL PILE W'STRIPPING	TRILOBAL YARN	ULTRAFAB
39	ENV-BG1	AS REQD.	BULB W'STRIPPING, (.475 BULB W/ FLAP X .270 BK.)	EPDM	ULTRAFAB
40	ENV-3518	AS REQD.	DRIP CAP	ALUMINUM	PEMKO
40A	#8 X 5/8"	AS REQD.	DRIP CAP FASTENERS, AT 3" FROM ENDS & 6" O.C.	ST. STEEL	HWH SELF DRILLING SCREWS
41	ENV-3512	AS REQD.	DOOR SWEEP (TOP)	ALUMINUM	PEMKO
41A	#8 X 1/2"	AS REQD.	DOOR SWEEP FASTENERS, AT 3" FROM ENDS & 6" O.C.	ST. STEEL	FH SELF DRILLING SCREWS

SEALANTS:

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

Sealed: 08/08/2017

JAVAD AHMAD LICENSE No. 70592 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #20701

91.11.80

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AL-FAROOQ CORPOR
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9360 SUNSET DRIVE, SUITE 220
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SERIES ENV-350 OUTSWING ENTRANCE DOOR (S.M.J.)

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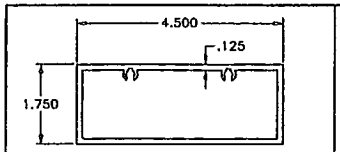
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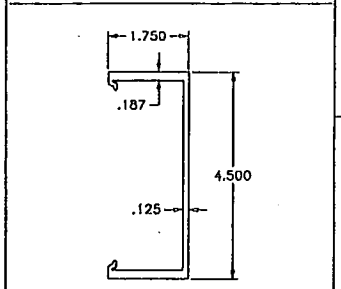
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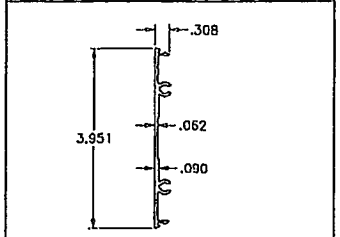
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REVIEWED FOR
CODE COMPLIANCE



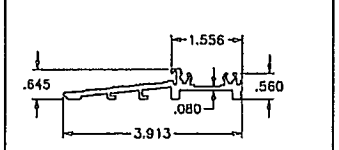
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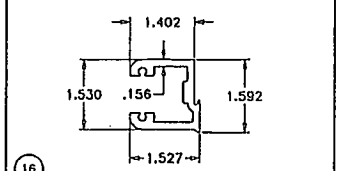
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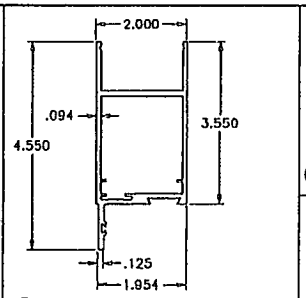
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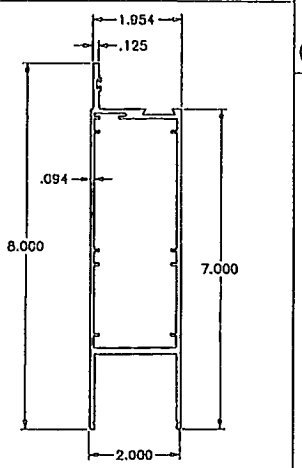
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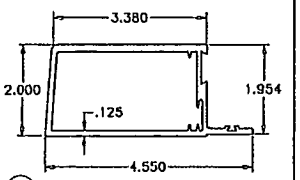
16 SHEAR BLOCK



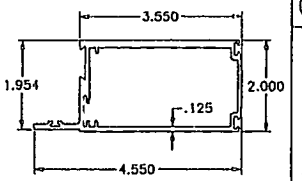
1 TOP RAIL



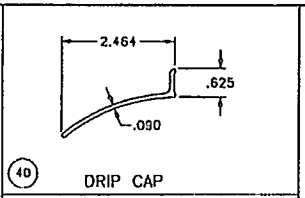
2 BOTTOM RAIL



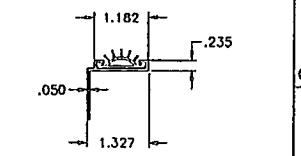
3 HINGE STILE



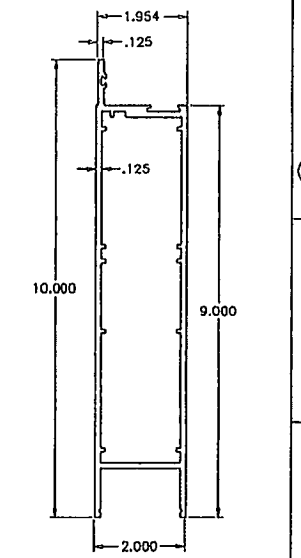
4 LOCK STILE



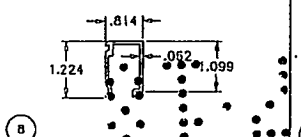
40 DRIP CAP



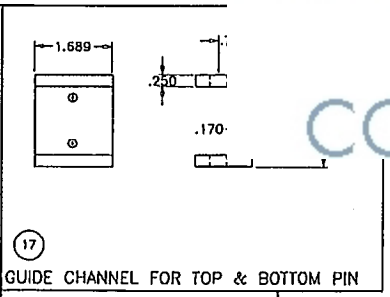
41 DOOR SWEEP (TOP)



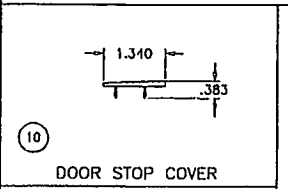
2.1 ALT. BOTTOM RAIL



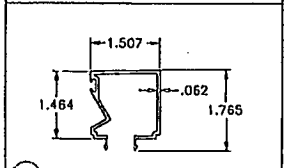
8 GLASS STOP (LAM. GLASS)



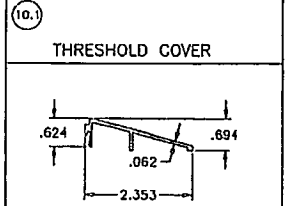
17 GUIDE CHANNEL FOR TOP & BOTTOM PIN



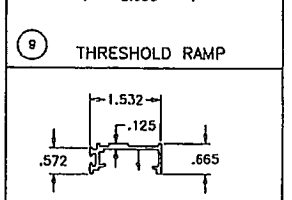
10 DOOR STOP COVER



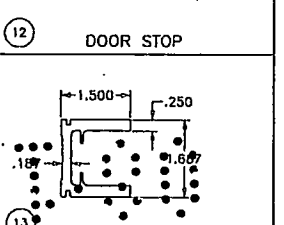
10.1 THRESHOLD COVER



9 THRESHOLD RAMP



12 DOOR STOP



13 STILE REINFORCEMENT

AL-FAROOQ CORPOR
ENGINEERS & PRODUCT DEVELO
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX (305
COI

SERIES EW-350 OUTSWING ENTRANCE DOOR (S.M.I.)
ENVIRALUM INDUSTRIES INC.
5110 N.W. 72 AVENUE BLDG. C
MIAMI, FL. 33166
TEL (305) 752-4411 FAX (305) 406-3877

revisions:
no | date | by | description

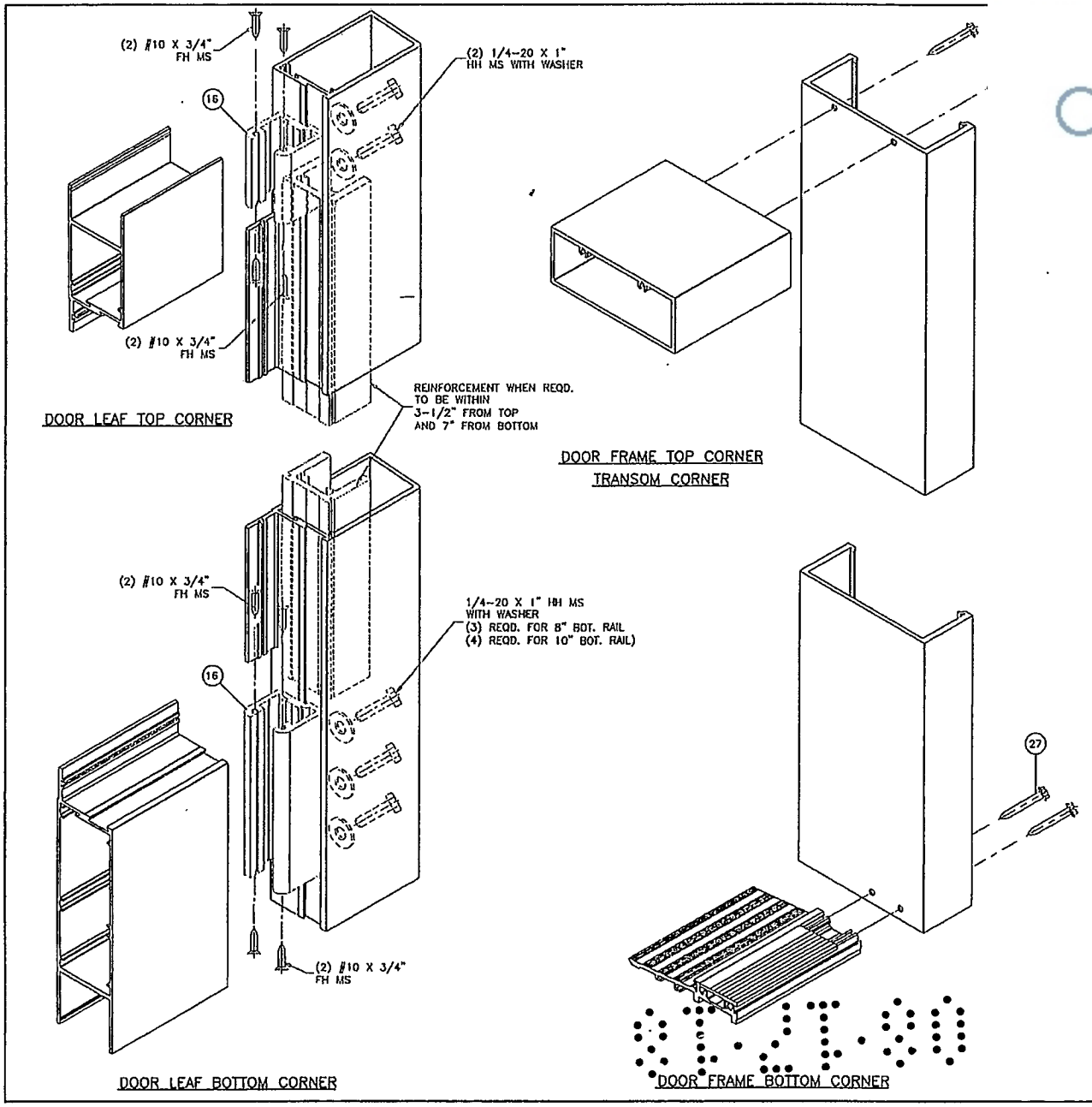
date: 06-10-16
scale: 3/8" = 1'
dr. by: TARQ
chk. by:

drawing no.
W16-50
sheet 6 of 7

Sealed: 08/08/2017
JAVAD AHMAD
LICENSE
No. 70592
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FL #20701

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



AL-FAROOQ CORPOR
ENGINEERS & PRODUCT DEVELO
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL (305) 264-8100 FAX. (30

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revisions:

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sheet 7 of 7

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LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

FL #20701

MIAMI BEACH
REVIEWED FOR
CODE COMPLIANCE

Priv
Building Plan

Private Provider Firm: **NOVA Engineering and Environn**

Private Provider: **Sandro Maldonado, PE**

Address: **4350 Oakes Road, Suite 518, Davie, FL 33314**

Phone: **(954) 424-2520**

Fax: **(954) 424-2580**

Email: **smaldonado@usanova.com**

I hereby certify that to the best of my knowledge and belief the plans submitted were corrected and reviewed for and are in compliance with the Florida Building Code and all local amendments to the Florida Building Code by the following affiant, who is duly authorized to perform plans review pursuant to Section 553.791, Florida Statute and holds the appropriate license or certificate:

Name: **17th Street & West Avenue**

Project: 17th Street & West, 1681 West Avenue – Miami Beach FL

Plan Sheets: Structural – Window & Doors Leve 4 and 5

Plans Signed and Sealed Dated 7/5/18: CS-000, CS-001, FP-100, FP-101, FP-102, FP-103, BE-200, BE-201, BE-202, BE-203, BE-204, BE-205, WE-300, WE-30, WE-302, WE-303, WE-304, WE-305, WE-306, WE-307, WE-307.1, WE-308, WE-309, WE-310, WE-311, WE-312, WE-313, WE-314, WE-315, WE-316, WE-317, WE-318, WE-319, WE-320, WE-321, WE-322, WE-323, WE-324, WE-325, WE-326, WE-327, WE-328, WE-329, WE-330, WE-331, WE-332, WE-333, WE-334,WE-335,WE-336, WE-337, WE-338, WE-339, WE-340,WE-341,WE-342, WE-342.1, WE-343,WE-344,WE-345,WE-346, WE-347, WE-348, WE-349, WE-350, WE-351, WE-352, WE-353, WE-354, WE-355, WE-356, WE-357, WE-358, WE-358.1, WE-359, WE-360, WE-361, WE-362, WE-363, WE-364, WE-365, WE-366, WE-367, WE-368, D-400, D-402, D-403, D-404, D-404.1, D-405, D-405.1, D-405.2, D-405.3, D-406, D-410, D-411, D-412, D-412.1, D-412.2, D-413, D-414, D-415, D-416, D-416.1, D-417, D-418, D-418.1, D-419, D-420, D-420.1, D-421, D-422, D-424, D-424-.1, D-425, D-426, D-427, D-428, D-429, D-430, D-431, D-432, D-433, D-433.1, D-438.1, D-439, D-440, D4-441, D-442, D-501, D-501.1, D-502, D-504, D-508, D-508.1, D-513, D-513.1, D-513.2, D-514.1, D-515, D-516, D-517, D-517.1, D-520, D-521, D-522, D-523, D-524, D-525, D-600

Documents Signed and Sealed Dated 7/5/18: Structural Calculations and NOA

Florida License / Registration / Certification #(s) and description:
PE 73057

Signature of Reviewer:

STATE OF FLORIDA
COUNTY OF BROWARD
Sworn to and subscribed before me this 16th day of August 2018, by Sandro Maldonado personally known to me to be the same person and official who executed the above and foregoing instrument as Architectural/General Building/ Structural Plans Examiner appeared before me in person and acknowledged that, as such official he executed the above instrument as his free and voluntary act on behalf of NOVA Engineering and Environmental LLC pursuant to authority conferred and for the uses and purposes therein set forth.

Notary Seal:

NOTARY PUBLIC STATE OF FLORIDA
NATALIE FORESMAN
Commission # GG 112030
Expires June 26, 2021
Bonded Thru Budget Notary Services

Signature of Notary Public-State of Florida

Natalie Foresman
Printed Name of Notary Public

MIAMIBEACH

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE
http://www.miamibeachfl.gov/city-hall/building/

Plan Routing Sheet

General Information – All fields MUST be completed for submittal		
Date: 5/21/19	Process/Permit Number: BC1808592	Historic (Y/N): NO
Job Address: 1698 Alton Rd		
Contact Name: Alberto Hernandez		
E-mail: Permit And All corp@AOL.com		
Phone No: (786)256-3713	Cell /Fax No:	

I am submitting revisions, or corrections for all the failed disciplines, and a narrative/response to each discipline/comment is attached.

Name: Alberto Hernandez ***Signature/Date:*** _____

Permit Revisions: Yes ☐ No ☐ **Total # of drawing sheets:** _____

Re-submittals - New Sheets: Yes ☐ No ☐ **Master Permit #:** _____

List all new sheets for re-submittals, revisions, provide description of work, and new cost, if any:

Narrative

OFFICE USE ONLY

Required Approvals - As Indicated		
☐ Building	☐ Flood Plain Management	☐ Public Works
☐ DERM	☐ Landscaping	☐ Roofing
☐ Electrical	☐ Mechanical	☐ Structural
☐ Elevator	☐ Parking	☐ Urban Forestry
☐ Environmental-Sustainability	☐ Planning & Zoning	
☐ Fire	☐ Plumbing	

Comments:

Clerk's Name: Christine Pierre **Date:** 5/21/19

☐ 2 sets of plans	☐ Flood Proofing Certificate	☐ Revisions
☐ Appraisal	☐ Geotechnical Report	☐ Special Inspector Forms
☐ Construction Contract	☐ Master set	☐ Structural calculations
☐ DERM Approval	☐ Narrative response	☐ Survey(s)
☐ Elevation Certificate	☐ Plans in color	☐ Construction Parking Management Plan (CPMP)
☐ Energy calculations	☐ Permit Application	

☐ **Walk-Through** ☐ **Drop-Off**

& Letter to Building Official

Revised May 15, 2019

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

ADA Information

To request this material in accessible format, sign language interpreters, information on ac
accommodation to review any document or participate in any city-sponsored proceeding, pleas
(fax), or 305-673-7218 (TTY) five (5) days in advance to initiate your request. TYY users may al

City of Miami Beach Mission

We are committed to providing excellent public service and safety to all who live, work and play in our vibrant, tropical, historic community.

Excellence Miami Beach

Form Name Plan Routing Request Sheet.

Purpose To route to several disciplines at once to reach final approval status.

Form Submittal Submit in person to the ***Drop-Off Section.***

For Assistance Please contact:

1. **In person**: Building Department 1700 Convention Center Drive, 2nd Floor Miami Beach, Florida 33139. (**Drop-Off Section)**
2. **Via Telephone**: 305-673-7610

   Ebony Dukes – Ext. 6434
   RaShonda Blatch – Ext. 6621
3. **Via E-mail:**

   EbonyDukes@miamibeachfl.gov
   RaShondaBlatch@miamibeachfl.gov
4. **Online:**
   www.miamibeachfl.gov
   http://www.miamibeachfl.gov/city-hall/building/

Building Department Mission

We are dedicated to serving the public by the efficient and effective supervision of construction, business, professional and personal activities to safeguard the public health, safety and general welfare of the City's residents and visitors by enforcing the Florida Building Code and the City Code of Ordinances.

BC1808592

NARRATIVE

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

REF: 17 & West
1698 Alton Rd
Miami Beach, FL 33139
Process BC1808592

Flood Review Comments:
Windows and doors do not match information on Master Permit.
- Provide the last approved set of Plans.

Please see revision RV1806018

Planning Review Comments:
Master Permit Set - BC1602075, shall reflect same design as BC1808592.
Provide revisions to BC1602075 or Provide revisions to BC1808592.

Please see revision RV1806018

BC1808592

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

May 17, 2019

City Of Miami Beach Building Department
1700 Convention Center Drive,
Miami Beach, FL 33139

RE: Reactivation of BC1808592 at 1698 Alton Rd Miami Beach, FL 33139

Dear Building Official,

We GMP Consulting & Glazing Contractors Inc located at 3550 NW 49 St. Miami, FL, 33142. Would like to formally request process number BC1808592 be reactivated in order to complete our reviews and pull the permit.
A revision RV1806018 to the master BC1602075 was required to match our shop drawings which took over a year until 5/16/19. This buildings name is "17West" located at 1698 Alton Rd project "Windows & Doors for the 4th & 5th floors".

Sincerely,

Giovanni Monti P.
GMP Consulting & Glazing Contractors Inc.
3550 NW 49 St
Miami, FL 33142

STATE OF FLORIDA
COUNTY OF Dade

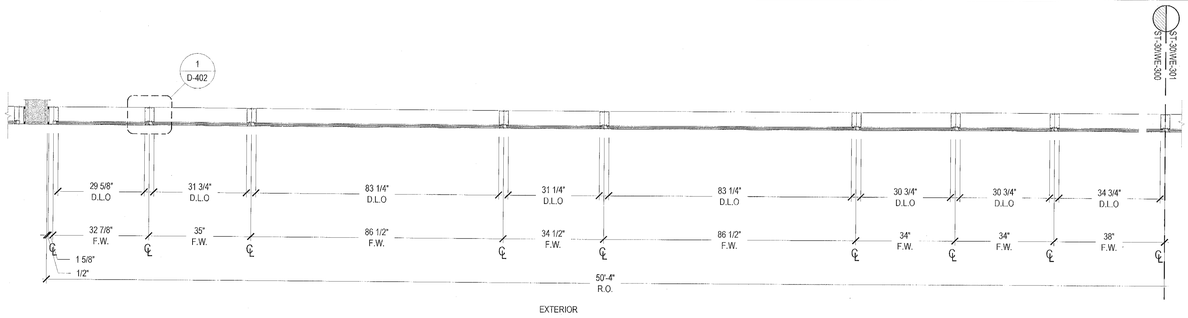
Sworn to and subscribed before me this 17 day of May, 2019, by Giovanni Monti

Notary Public State of Florida
Cynthia Galeano
My Commission FF 905577
Expires 09/07/2019

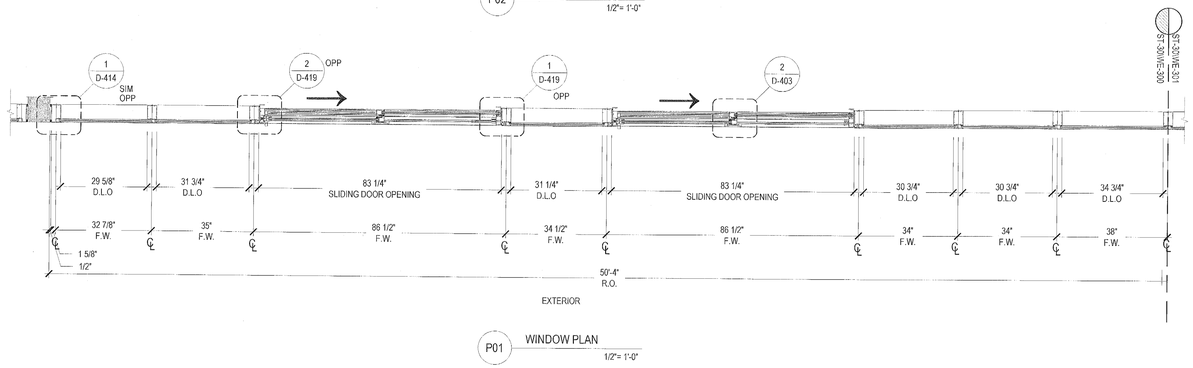
Signature of Notary Public
Name of Notary Cynthia Galeano

Personally Known X OR Produced Identification _____
Type of Identification Produced _____

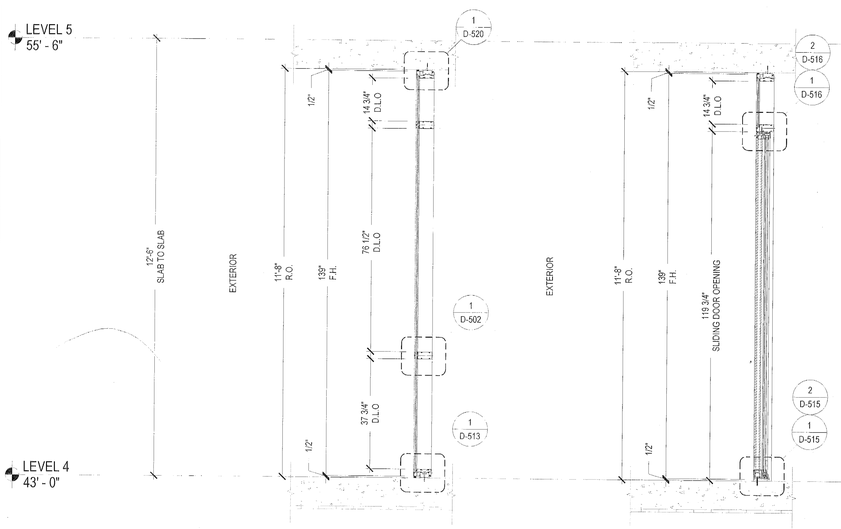
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



P02 WINDOW PLAN 1/2"= 1'-0"

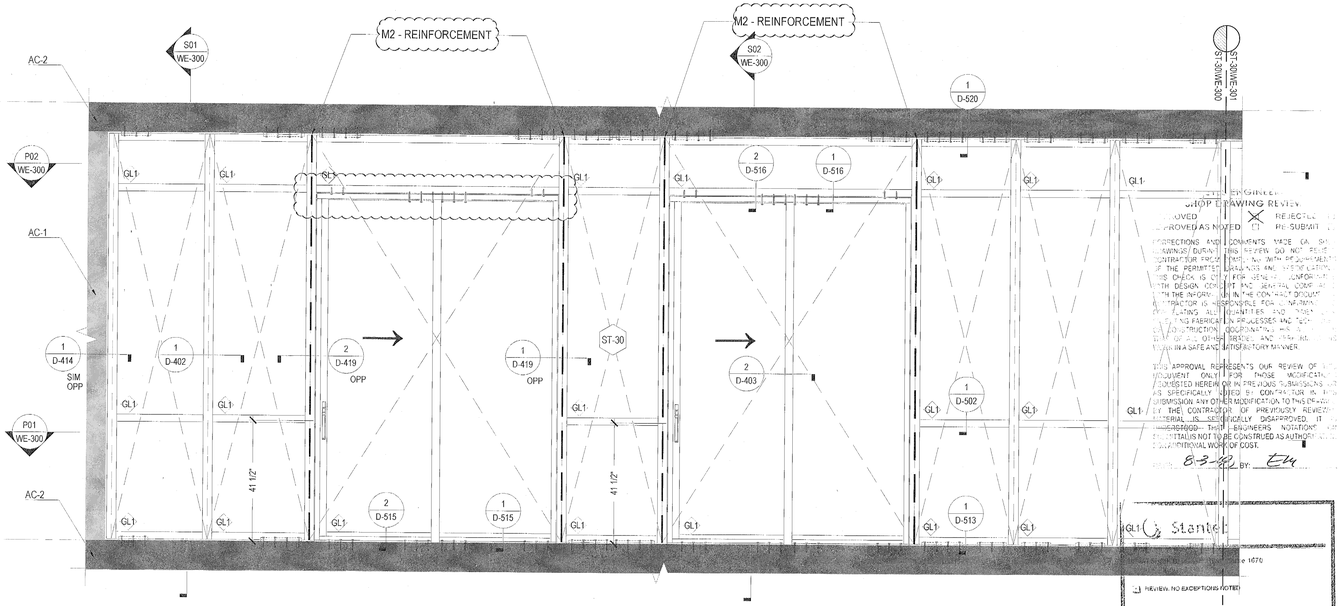


P01 WINDOW PLAN 1/2"= 1'-0"



S01 WINDOW SECTION 1/2"= 1'-0"

S02 WINDOW SECTION 1/2"= 1'-0"



ST-30 WINDOW ELEVATION
SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-205

Wes Ventures LLC
1681 WEST VENTURES LLC.
19501 Biscayne Boulevard. Suite 400
Aventura, Fl. 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3500 NW 49th street
Miami, Fl. 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla. Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE
MANUEL MIRALLES
LICENSED
No 71649
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL MIRALLES
PE#71649

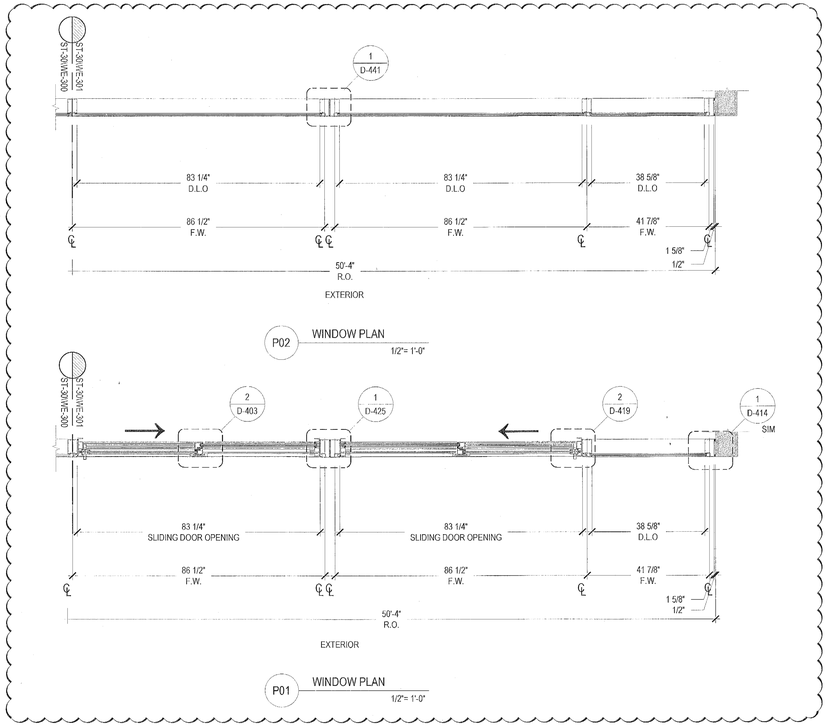
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

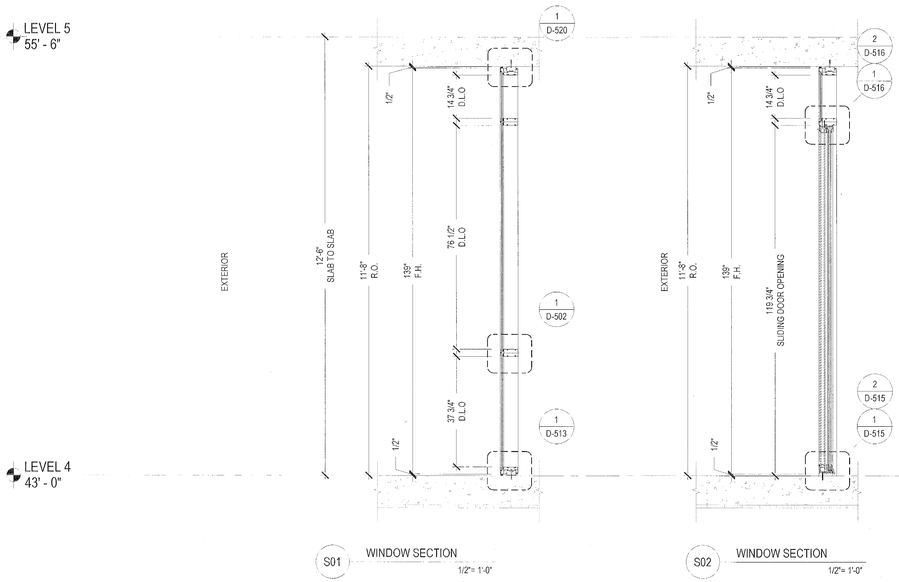
REVISION N°	DATE	DESCRIPTION
A	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
A	12.26.2017	FIRST SUBMITTAL UPDATE
A	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
A	05.22.2018	RESUBMITTAL PER BULLETIN # 2018.04.10
A	06.08.2018	RESUBMITTAL PER FSEC COMMENTS 0607201 8 JJ

PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-300

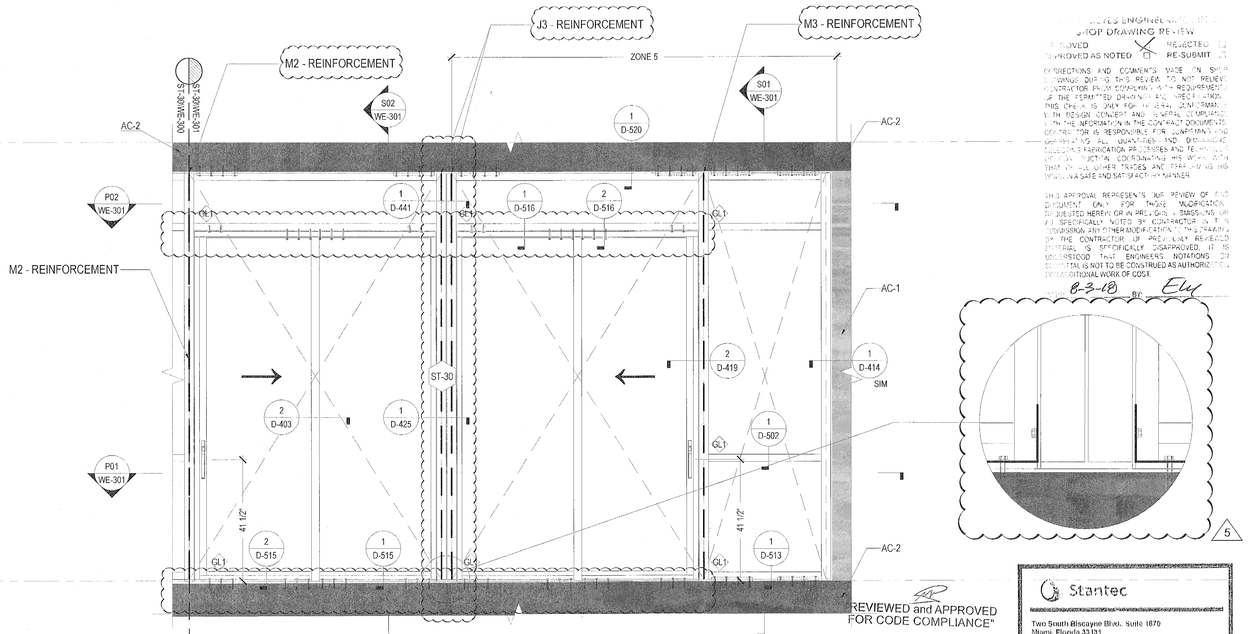
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE





S01 WINDOW SECTION 1/2"= 1'-0"

S02 WINDOW SECTION 1/2"= 1'-0"



ST-30 WINDOW ELEVATION
SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"

5

REVIEWED and APPROVED FOR CODE COMPLIANCE*

NOVA ENGINEERING and ENVIRONMENTAL LLC

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

ZONE 5

LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-205

MIAMI BEACH ENGINEERING DEPT.
SHOP DRAWING REVIEW
APPROVED REJECTED
APPROVED AS NOTED RE-SUBMIT
CORRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE PERMITTED DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR THE GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.
THIS APPROVAL REPRESENTS THE REVIEW OF SHOP DRAWINGS ONLY FOR THOSE WORK/ACTIONS DIRECTED HEREIN OR IN PREVIOUS TRANSMITTALS AS SPECIFICALLY NOTED BY CONTRACTOR IN THE TRANSMITTAL AND THE MODIFICATION, IF ANY, MADE BY THE CONTRACTOR OF PREVIOUSLY REVIEWED MATERIAL IS SPECIFICALLY DISAPPROVED. IT IS UNDERSTOOD THAT ENGINEER'S NOTATIONS ON SUBMITTAL IS NOT TO BE CONSTRUED AS AUTHORIZING ADDITIONAL WORK OF COST.
8-3-18 BY: ELM

Stantec
Two South Biscayne Blvd. Suite 1870
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Date: 7/12/18 By: R.G.

1681 WEST VENTURES LLC
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914 9207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
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2 South Biscayne Boulevard
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SHOP DRAWINGS BY:
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FAÇADE+ENVELOPE
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HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEANDENVELOPE.COM
CA# 30169

REVIEWED FOR
STRUCTURAL COMPLIANCE
ONLY
No 71643
STATE OF
FLORIDA
ANDRES MARTINEZ P.E.
LICENSE NO. 71643

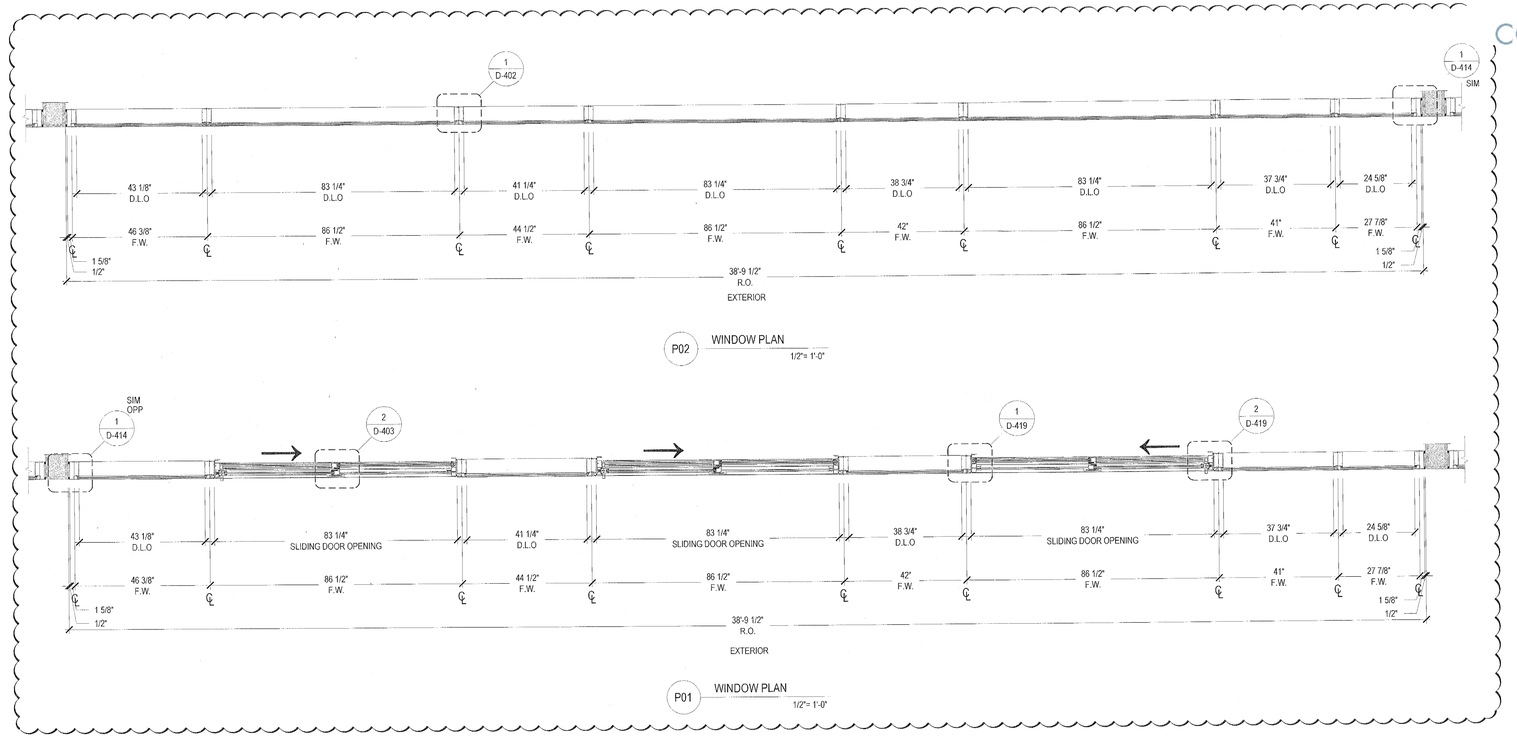
17TH & WEST AVENUE
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MIAMI BEACH, FLORIDA 33139

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4	05. 22. 2018	RESUBMITTAL PER BULLETIN #1 2018-04-10
5	06. 08. 2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

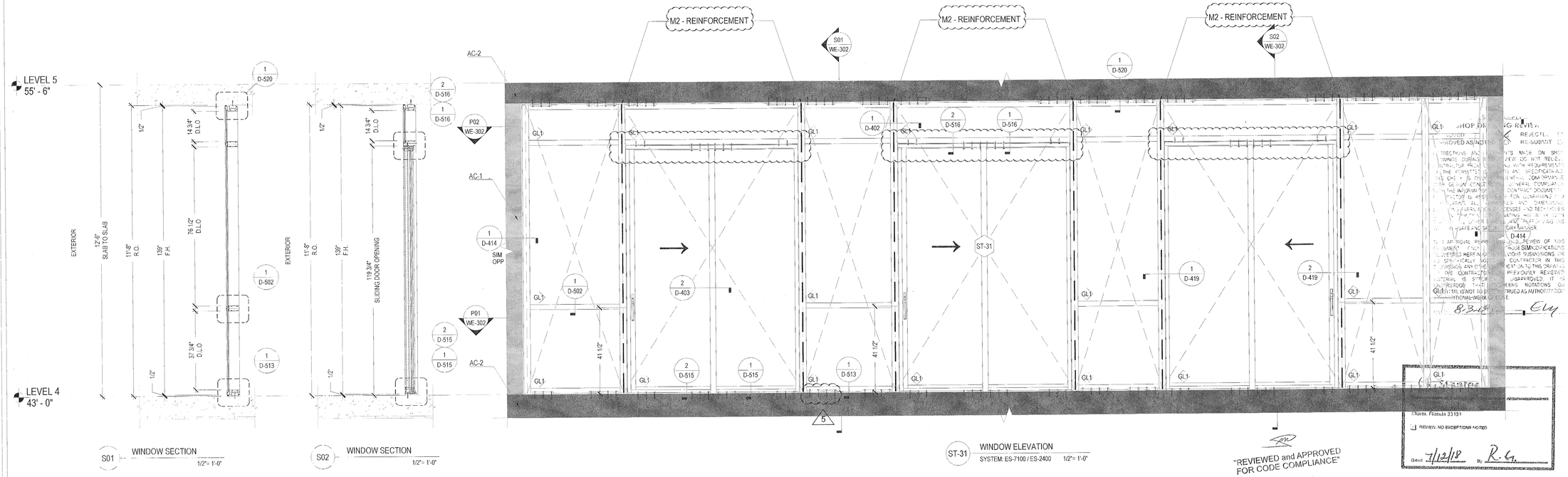
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-301

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



4



S01 WINDOW SECTION 1/2"= 1'-0"

S02 WINDOW SECTION 1/2"= 1'-0"

ST-31 WINDOW ELEVATION SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-205

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142 EE.UU
Tel. 305-638-5151
Fax. 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 595-1729
WWW.FACADENVELOPE.COM
CA# 30169

REVIEWED FOR STRUCTURAL COMPLIANCE
CITY OF MIAMI BEACH
MANUEL MORENO
LICENSED
No 71643
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
MANUEL MORENO JR.
PROFESSIONAL ENGINEER

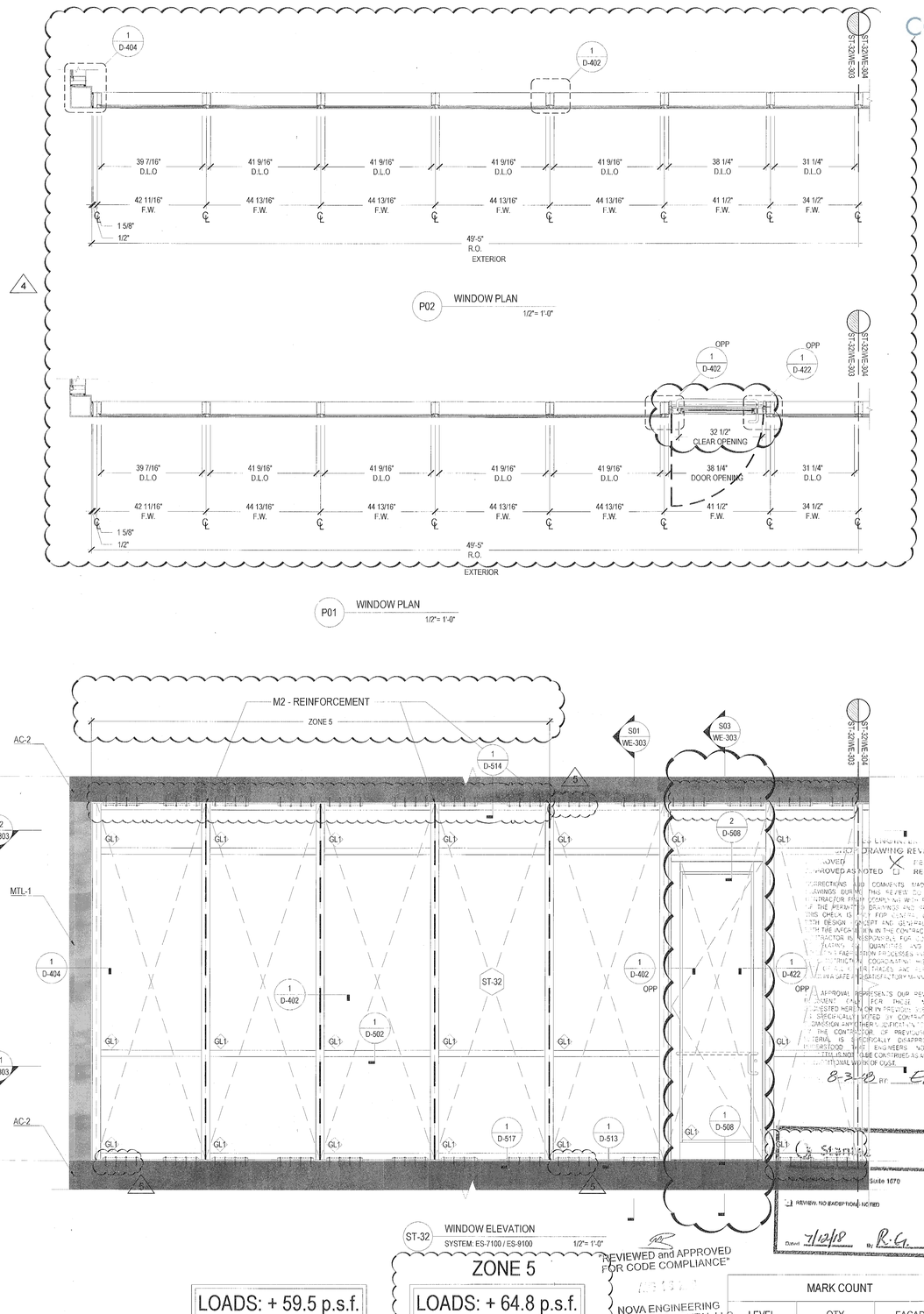
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

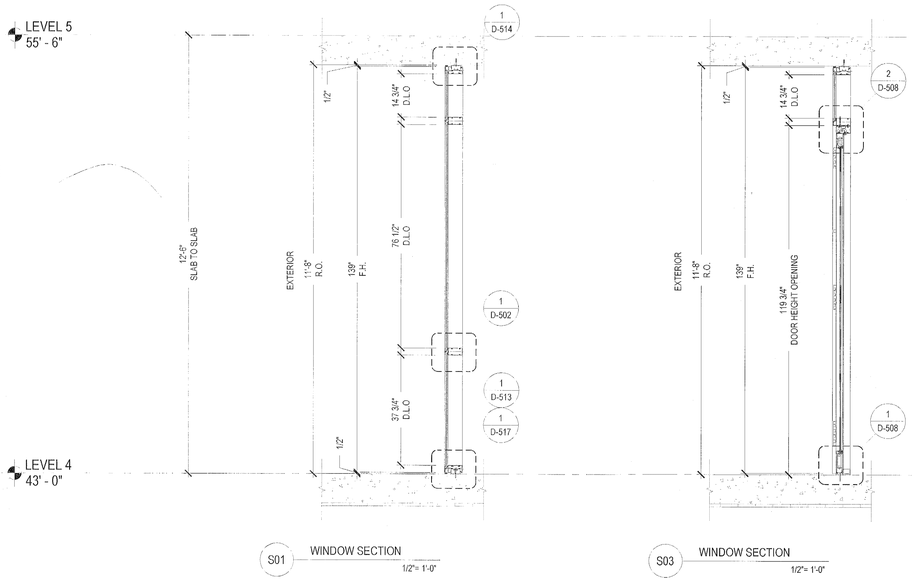
REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	12. 20. 2017	FIRST SUBMITTAL UPDATE
3	01. 17. 2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	02. 22. 2018	RESUBMITTAL PER BULLETIN # 2018.04.10
5	06. 08. 2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-302

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE





"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

ZONE 5

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-205

1981 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3950 NW 49th street
Miami, FL 33142 E.E.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
C/51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
C# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE ONLY BY:
MANUEL NOVA, P.E.
LICENSED
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL NOVA, P.E.
FL reg # 71643

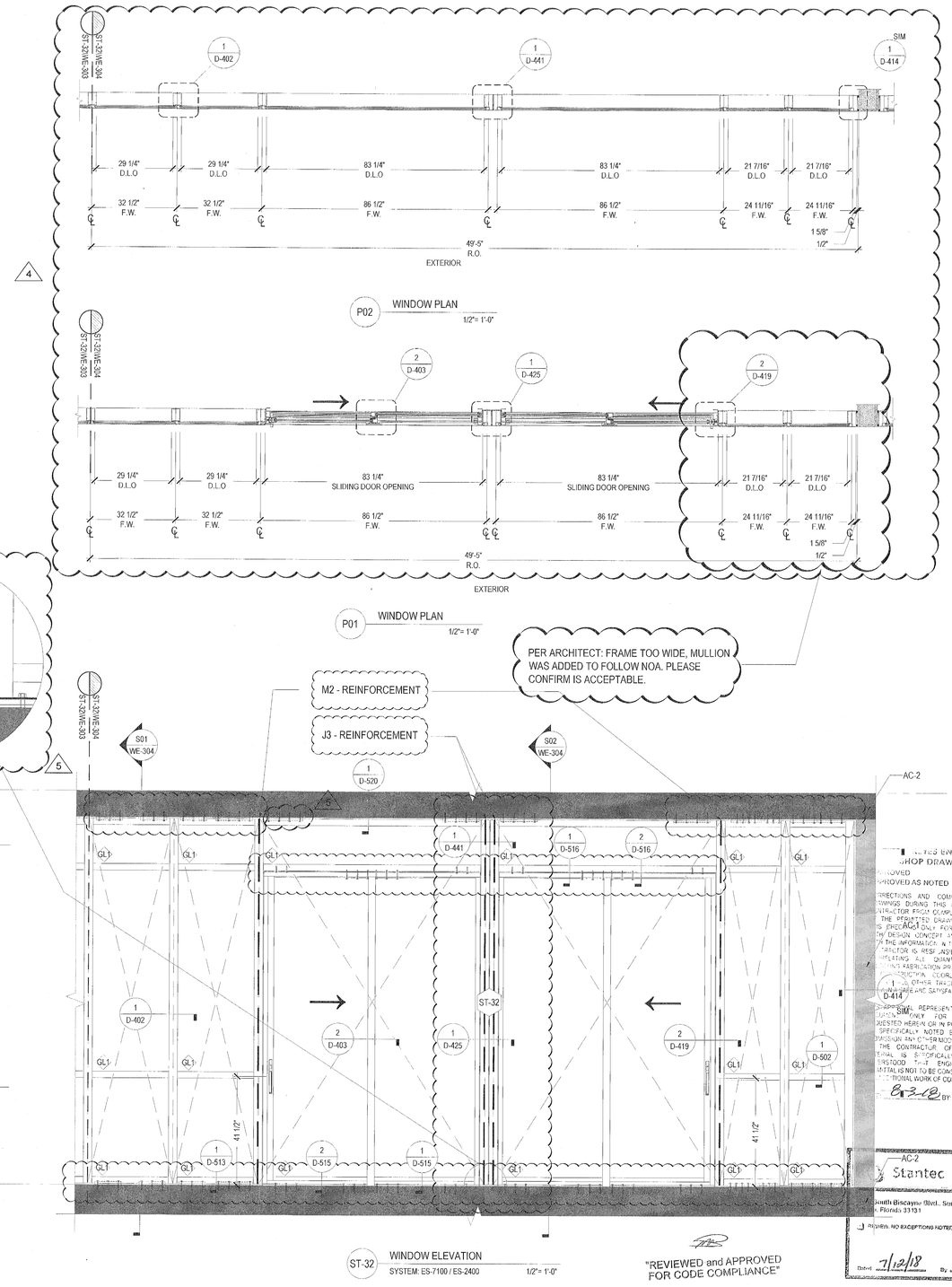
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 6
2	12. 26. 2017	FIRST SUBMITTAL UPDATE
3	01. 17. 2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05. 22. 2018	RESUBMITTAL PER BULLETIN #1 2018.04.10
5	06. 08. 2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-303

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-205

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, Fl. 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 0 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
C#A 30168

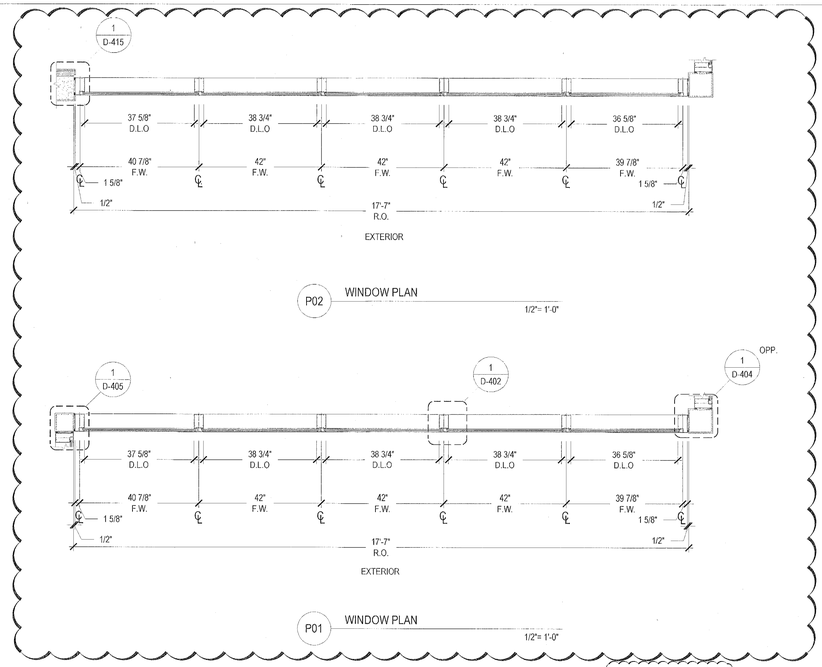
PRELIMINARY NOT FOR CONSTRUCTION OR PERMITTING PURPOSES
STRUCTURAL ENGINEER OF RECORD
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL IMPERIAL P.E.
FL. Reg # 71643

17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	12. 26. 2017	FIRST SUBMITTAL UPDATE
3	01. 17. 2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05. 22. 2018	RESUBMITTAL PER BULLETIN # 2018-04-10
5	06. 08. 2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM
SHEET:
WE-304

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200

SHOP DRAWING REVIEW
APPROVED
APPROVED AS NOTED
REJECTED
RE-SUBMIT
CORRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE PERMITTED DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS, QUANTITIES AND CONSTRUCTION PROCESSES, PROCEDURES, COORDINATION WITH ALL OTHER TRADES AND SAFETY PRECAUTIONS IN A SAFE AND SATISFACTORY MANNER.
THIS APPROVAL REPRESENTS OUR REVIEW OF CONFORMITY ONLY FOR THOSE ITEMS INDICATED AND NOTED HEREIN OR IN PREVIOUS REVISIONS. SPECIFICALLY NOTED BY CONTRACTOR IN THE TRANSMISSION OR OTHERWISE BROUGHT TO THE ATTENTION OF THE CONTRACTOR IN PREVIOUSLY REVIEWED SHOP DRAWINGS. ITEMS NOT SPECIFICALLY ADDRESSED IN THIS REVIEW ARE NOT TO BE CONSTRUED AS AUTHORIZATION OF ADDITIONAL WORK OR COST.
8-3-18 BY: EM

Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/24/18 By: R.G.

"REVIEWED and APPROVED
FOR CODE COMPLIANCE"
NOVA ENGINEERING
and ENVIRONMENTAL LLC

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-926-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, Fl. 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638 5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
CRS 8 80-58 OF 501
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 585-1729
WWW.FACADEENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE
MASTER PLUS ENGINEERS
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL MASTER P.E.
FL. Reg # 71643

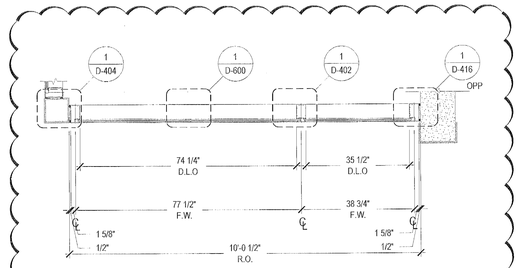
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	12. 26. 2017	FIRST SUBMITTAL UPDATE
3	01. 17. 2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05. 22. 2018	RESUBMITTAL PER BULLETIN # 2018.04.10
5	06. 08. 2018	RESUBMITTAL PER FEEC COMMENTS 060708 & JJ

PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

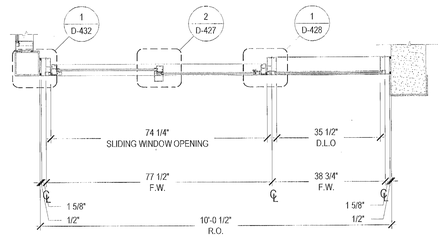
SHEET:
WE-305

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

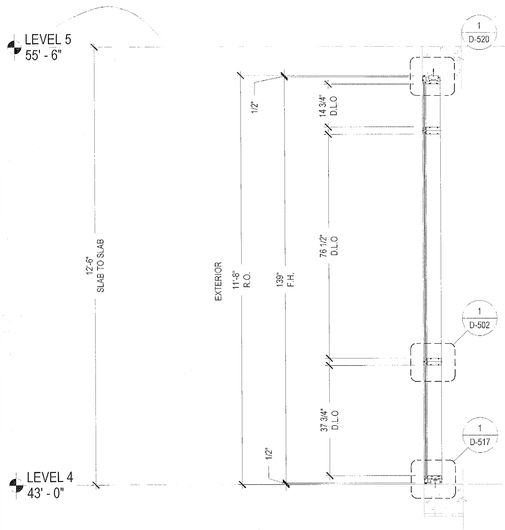


P02 WINDOW PLAN
1/2"= 1'-0"

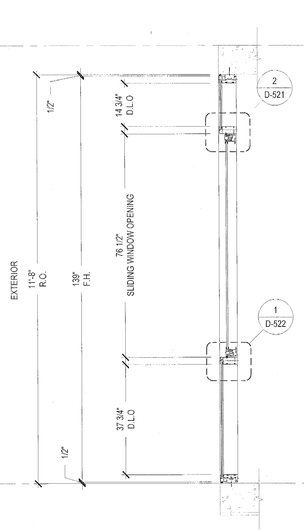
4



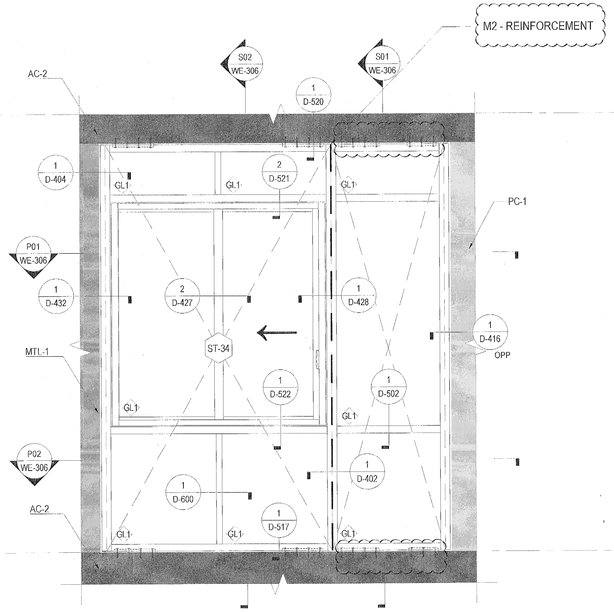
P01 WINDOW PLAN
1/2"= 1'-0"



S01 WINDOW SECTION
1/2"= 1'-0"



S02 WINDOW SECTION
1/2"= 1'-0"



ST-34 WINDOW ELEVATION
SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

SHOP DRAWING REVIEW
APPROVED REJECTED
APPROVED AS NOTED RESUBMIT
CORRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE PERMITTED DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING WORK IN A SAFE AND SATISFACTORY MANNER.
YOUR APPROVAL REPRESENTS YOUR REVIEW OF THIS ENGINEERS ONLY FOR THOSE MODIFICATIONS REQUESTED HEREIN OR IN THE FOLLOWING LETTER AND AS SPECIFICALLY NOTED BY CONTRACTOR IN THE SUBMISSION. ANY FURTHER MODIFICATION TO THE PORTION OF THE CONSTRUCTION OF PREVIOUSLY REVIEWED MATERIAL IS NOT TOTALLY DISAPPROVED IT IS UNDERSTOOD THAT ENGINEERS NOTATIONS ON SUBMITTAL IS NOT TO BE CONSTRUED AS AUTHORIZATION FOR ADDITIONAL WORK OR COST.
DATE 8-3-18 BY ELL

"REVIEWED and APPROVED FOR CODE COMPLIANCE"
NOVA ENGINEERING and ENVIRONMENTAL, LLC

Stantec
Two South Biscayne Blvd. Suite 1870
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/31/18 By R.G.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200

1981 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1870
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, Fl. 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE
MANUEL GONZALEZ LICENSE No. 71644 STATE OF FLORIDA
MANUEL GONZALEZ PE
FURNITURES

33139

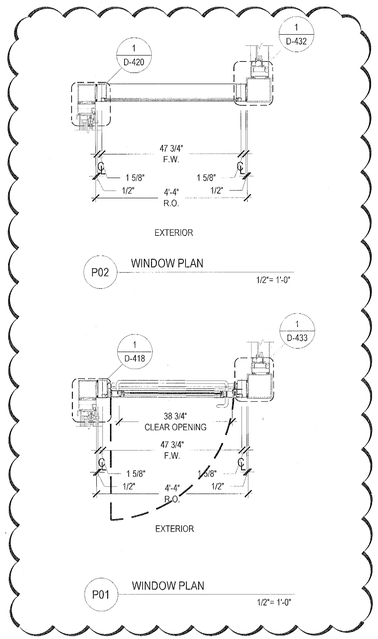
REVISION N°	DATE	DESCRIPTION
A	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
B	12.26.2017	FIRST SUBMITTAL UPDATE
C	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
D	05.22.2018	RESUBMITTAL PER BULLETIN # 2018.04.10
E	06.08.2018	RESUBMITTAL PER FEDC COMMENTS 06072018 JJ

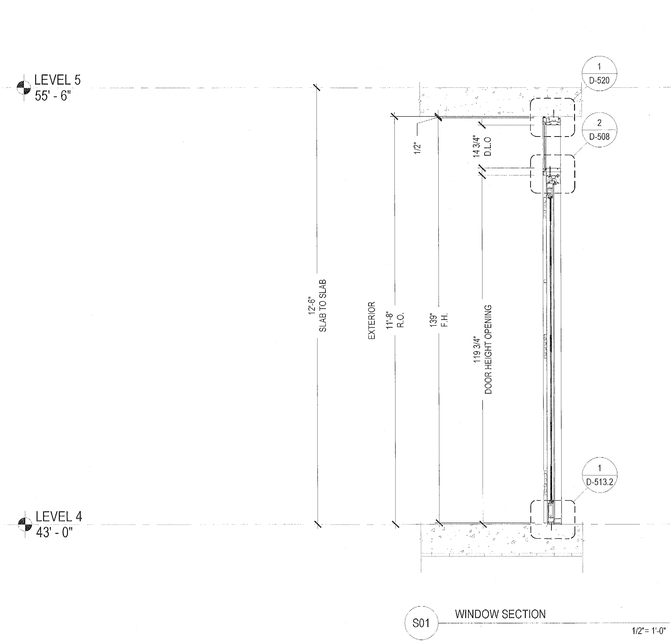
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA

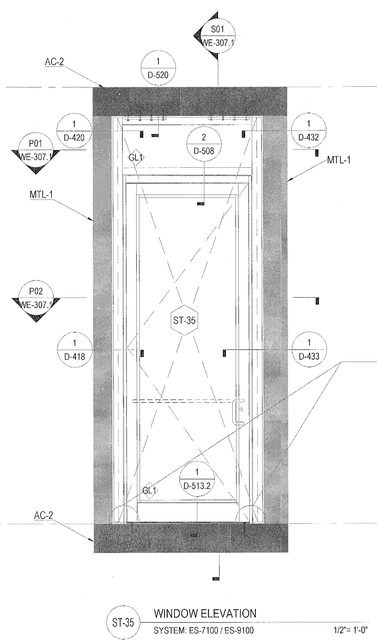
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

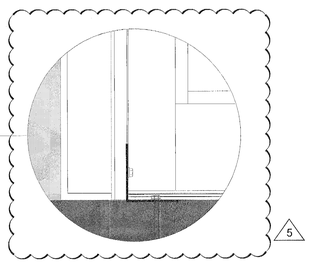
SHEET:
WE-306

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE









LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200

SHOP DRAWING REVIEW
APPROVED
APPROVED AS NOTED
REJECTED
RE-SUBMIT
CORRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE PERMITTED DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECT FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING THE WORK OF ALL OTHER TRADES AND PERFORMING THE WORK IN A SAFE AND SATISFACTORY MANNER.
THIS APPROVAL REPRESENTS OUR REVIEW OF THIS CONCEPT ONLY FOR THOSE MODIFICATIONS REQUESTED HEREIN OR IN PREVIOUS SUBMITTALS SPECIFICALLY NOTED BY CONTRACTOR IN THE OMISSION ANY OTHER MODIFICATIONS NECESSARY FOR THE CONTRACTOR OR PREVIOUSLY REJECTED ITEMS IS SPECIFICALLY DISAPPROVED. IT IS UNDERSTOOD THAT ENGINEERS NOTATIONS ON THIS MATERIAL IS NOT TO BE CONSTRUED AS AUTHORIZATION FOR ADDITIONAL WORK OR COST.
8-3-18 BY EG

Stantec
Two South Biscayne Blvd. Suite 1870
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/10/18 By R.G.

"REVIEWED and APPROVED
FOR CODE COMPLIANCE"
NOVA ENGINEERING
and ENVIRONMENTAL LLC

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914 8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142-EE.UU
Tel: 305-638-5151
Fax: 305-638-5155

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
C/51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020-(954) 589-1729
WWW.FACADENVELOPE.COM
CA# 30168

REVIEWED FOR
STRUCTURAL COMPLIANCE
MANUEL IGNACIO PEREZ
LICENSE
No 71643
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
MANUEL IGNACIO PEREZ P.E.
FL. REG. # 71643

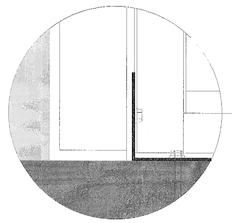
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

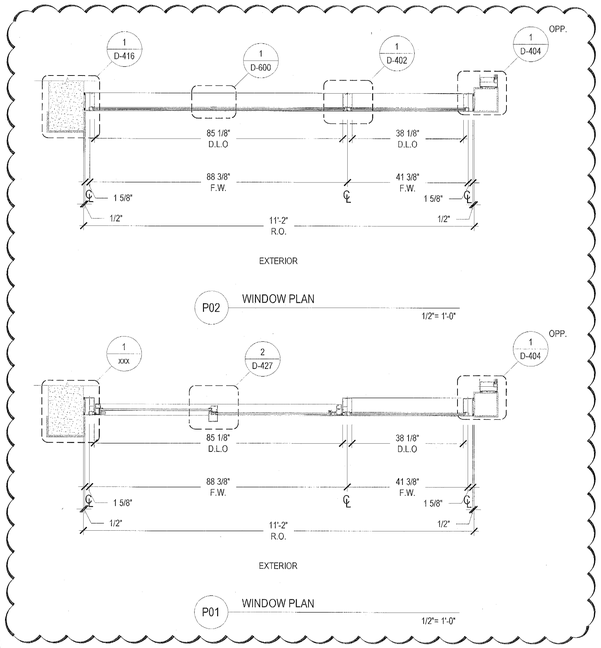
REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL- LEVEL 4 TO LEVEL 5
2	12. 26. 2017	FIRST SUBMITTAL UPDATE
3	01. 17. 2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05. 22. 2018	RESUBMITTAL PER BULLETIN # 2018.04.10
5	08. 08. 2018	RESUBMITTAL PER FSEC COMMENTS 30072018 JJ

PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL
ELEVATION SYSTEM

SHEET:
WE-307.1

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

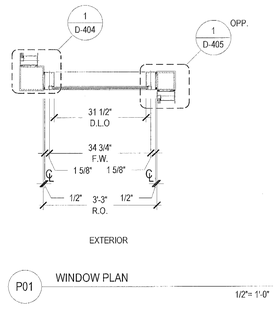




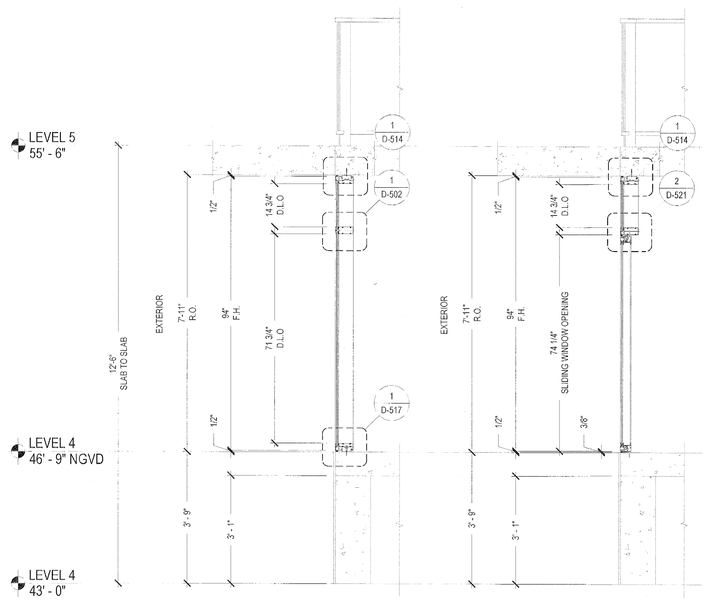
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P02 WINDOW PLAN 1/2"= 1'-0"

P01 WINDOW PLAN 1/2"= 1'-0"



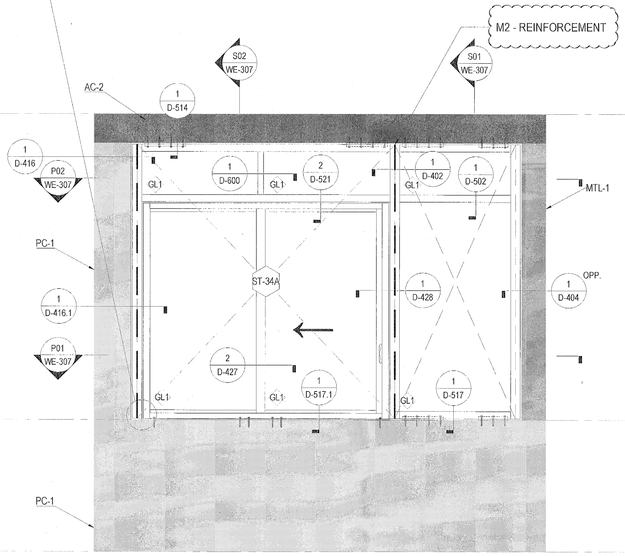
P01 WINDOW PLAN 1/2"= 1'-0"



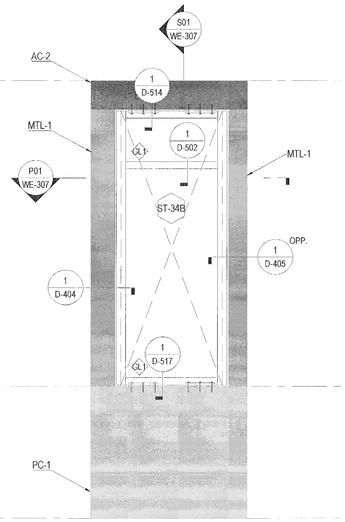
S01 WINDOW SECTION 1/2"= 1'-0"

S02 WINDOW SECTION 1/2"= 1'-0"

M2 - REINFORCEMENT



ST-34A WINDOW ELEVATION
SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"



ST-34B WINDOW ELEVATION
SYSTEM: ES-7100 1/2"= 1'-0"

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200

ZONE 5

LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200

SHOP DRAWING REVIEW
APPROVED / REVISE AS NOTED / RESUBMIT
DIRECTIONS AND COMMENTS MADE ON THE CONTRACTOR'S SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR OF COMPLIANCE WITH REQUIREMENTS OF THE PERMITTED DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF HIS WORK.
APPROVAL REPRESENTS OUR REVIEW OF GENERAL CONFORMANCE ONLY FOR THOSE MODIFICATIONS REQUESTED HEREIN OR IN PREVIOUS SUBMISSIONS, SPECIFICALLY NOTED BY CONTRACTOR IN THIS SUBMISSION AND THEIR NOTATION ON THE DRAWINGS. THE CONTRACTOR IS PREVIOUSLY REVIEWED MATERIAL IS SPECIFICALLY DISAPPROVED IT IS UNDERSTOOD THAT ENGINEERS NOTATIONS ON THE SHOP DRAWINGS ARE NOT TO BE CONSTRUED AS AUTHORIZING ADDITIONAL WORK OR COST.
8-3-18 BY: EZ

Stantec
Two South Biscayne Blvd., Suite 1870
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/27/18 By R.G.

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
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STANTEC ARCHITECTURE INC.
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2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3500 NW 49th street
Miami, Fl. 33142 EE UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 501
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1000 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 599-1729
WWW.FACADENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE
MANUEL GONZALEZ-BUTRAL
LICENSE NO.
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL GONZALEZ-BUTRAL, P.E.
FL License # 71643

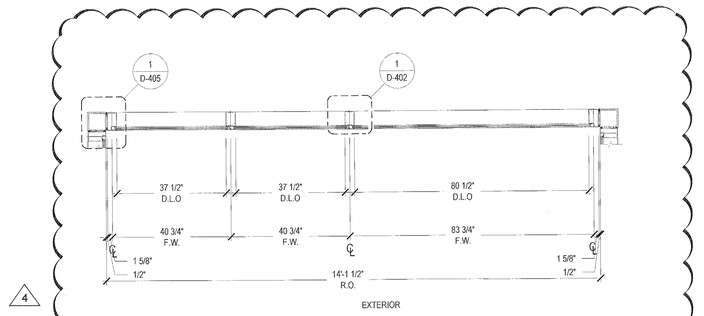
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	12. 26. 2017	FIRST SUBMITTAL UPDATE
3	01. 17. 2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05. 22. 2018	RESUBMITTAL PER BULLETIN #1 2018.04.10
5	06. 08. 2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

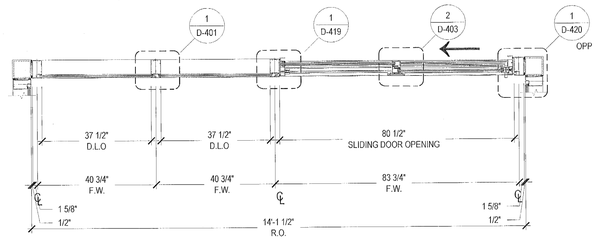
SHEET:
WE-307

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

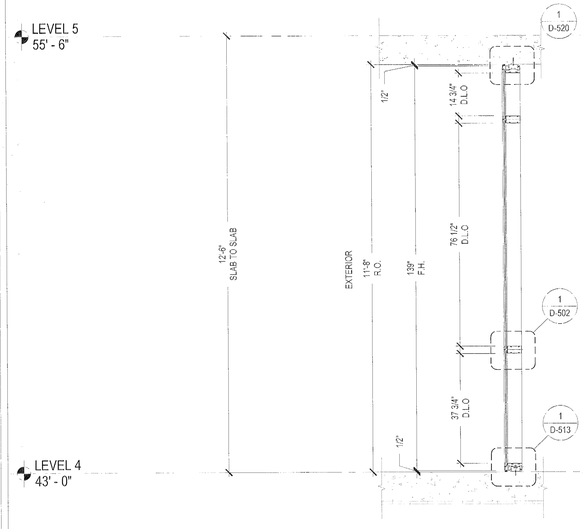


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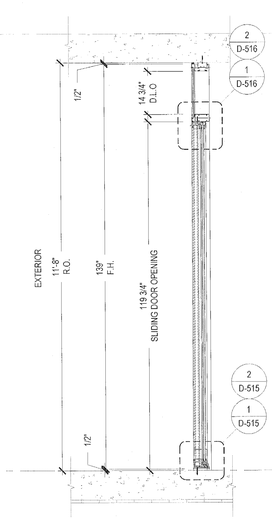
P02 WINDOW PLAN 1/2"= 1'-0"



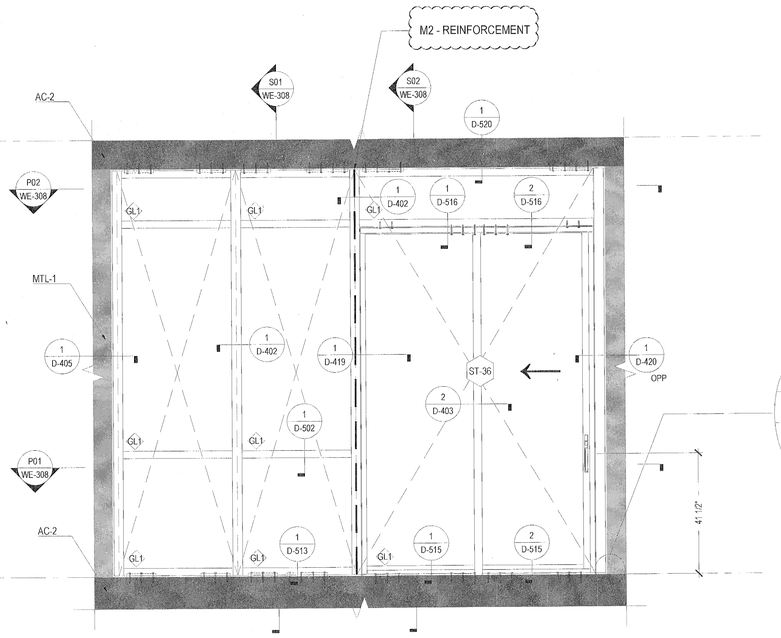
P01 WINDOW PLAN 1/2"= 1'-0"



S01 WINDOW SECTION 1/2"= 1'-0"



S02 WINDOW SECTION 1/2"= 1'-0"



ST-36 WINDOW ELEVATION SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200

SHOP DRAWING REVIEW

APPROVED ☐ REJECTED ☐
AS NOTED ☒ RE-SUBMIT ☐

CORRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE PERMITTED DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR: CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING HIS WORK WITH THAT OF OTHER TRADES AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

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DATE: 8-3-18 BY: ELH

Stantec
Two South Biscayne Blvd., Suite 1070
Miami, Florida 33131
☐ REVIEW, NO EXCEPTIONS NOTED
Dated 7/13/18 By R.G.

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-620-0451

WINDOW MANUFACTURER:
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE
ALL PROFESSIONALS REGISTERED IN THE STATE OF FLORIDA
No 71643
STATE OF FLORIDA
RAMON G. REYES
MIAMI-DADE COUNTY
PROFESSIONAL ENGINEER
LIC. NO. 71643

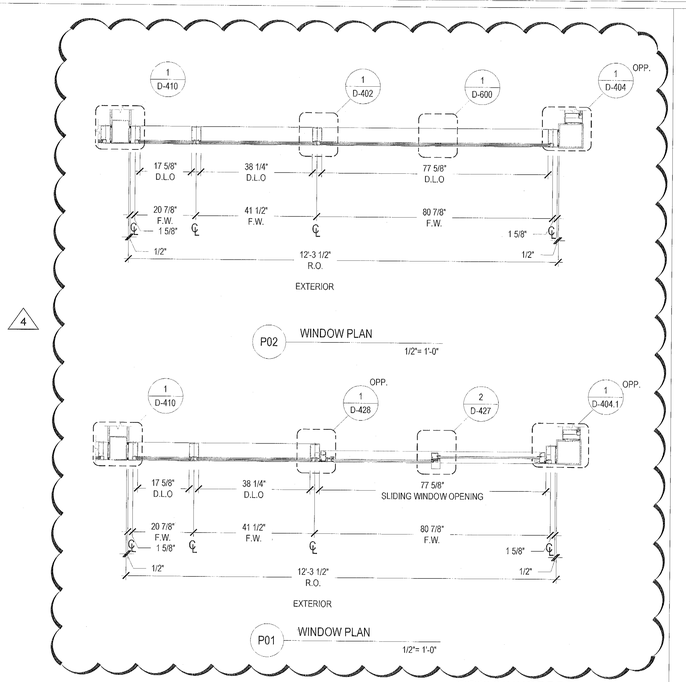
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

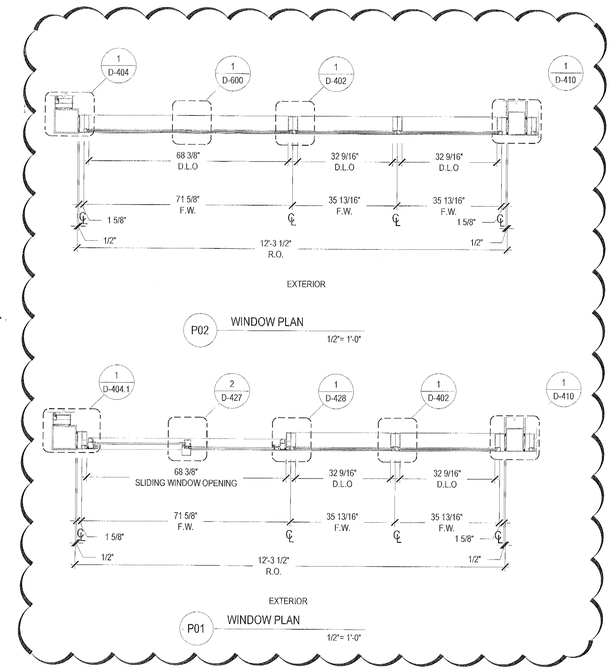
REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	12.26.2017	FIRST SUBMITTAL UPDATE
3	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	06.22.2018	RESUBMITTAL PER BULLETIN # 2018.04.10
5	06.05.2018	RESUBMITTAL PER REEC COMMENTS 06072018-JJ

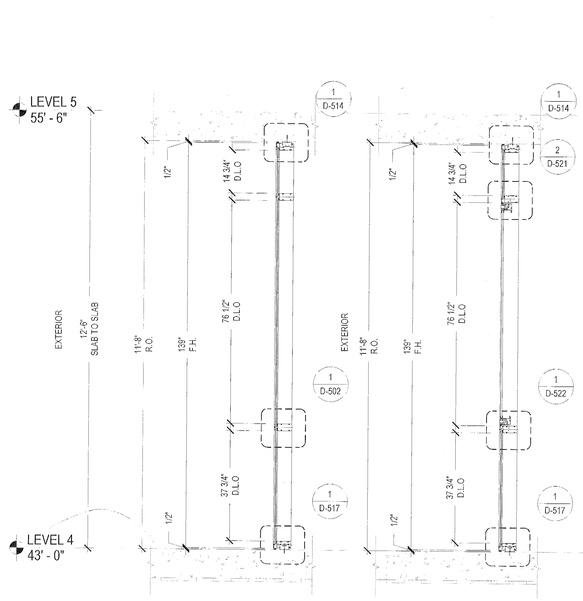
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

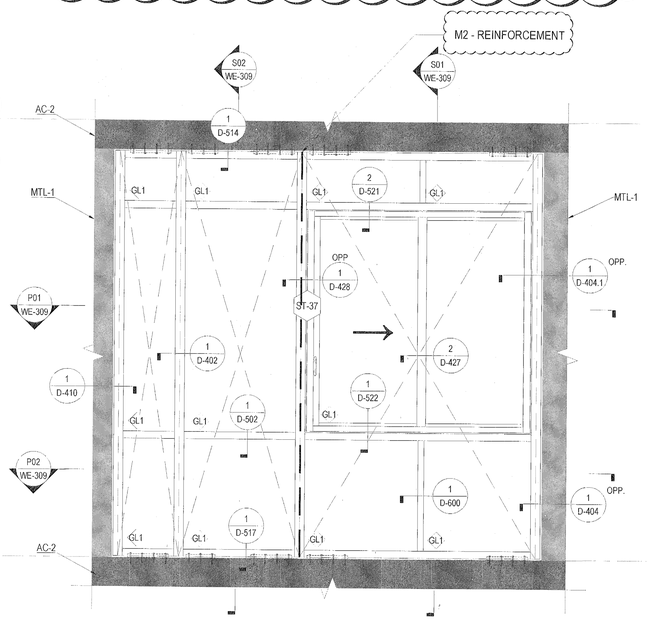
SHEET:
WE-308

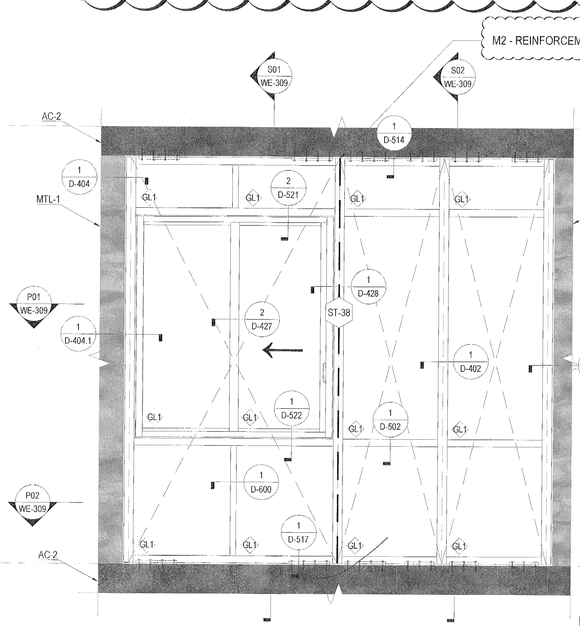
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE











LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200

NOVA ENGINEERING
and ENVIRONMENTAL LLC

"REVIEWED and APPROVED
FOR CODE COMPLIANCE"

SHOP DRAWING REVIEW
APPROVED ☒ REJECTED ☐
APPROVED AS NOTED ☐ RE-SUBMIT ☐

CORRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE PERMITTED DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR: CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES; AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

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DATE 8.3.18 BY EG

Stantec
Two South Biscayne Blvd., Suite 1070
Miami, Florida 33131
☐ REVIEW, NO EXCEPTIONS NOTED
Dated 7/18/18 By R.G.

1681 WEST VENTURES LLC
West Ventures LLC
1681 WEST VENTURES LLC
19501 Biscayne Boulevard, Suite 400
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T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
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Miami, FL 33131-1804
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GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-628-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3950 NW 49th street
Miami, Fl. 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 # 80-58 Of. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1990 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL DESIGN ONLY BY:
MANUEL MORA, P.E.
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL MORA, P.E.
FL REG. # 71643

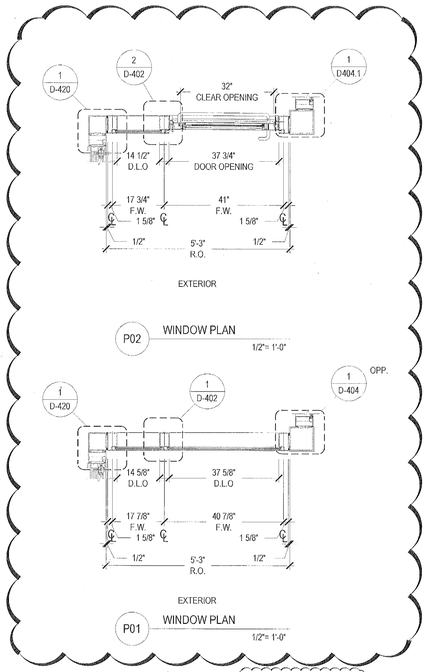
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

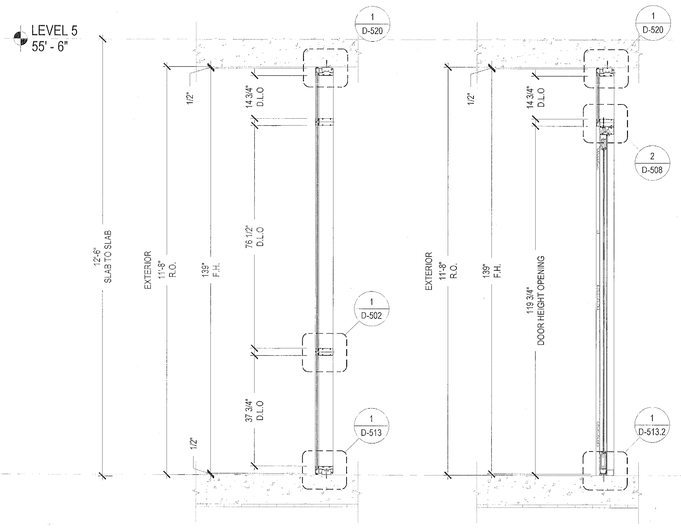
REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
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4	05. 22. 2018	RESUBMITTAL PER BULLETIN #1 2018-04-10
5	06. 08. 2018	RESUBMITTAL PER FEEC COMMENTS 06272018 JJ

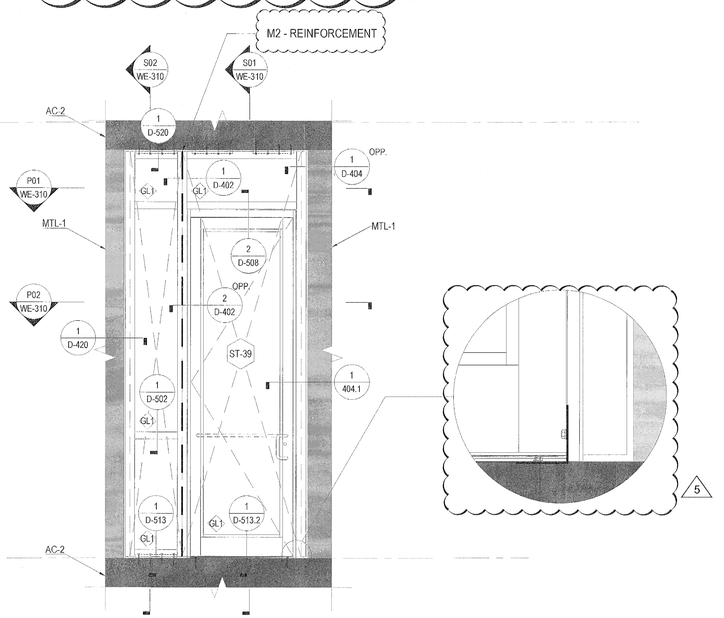
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-309

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE







LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200

...ING REVIEW...
...REVIEWED ☒ REJECTED ☐
...APPROVED AS NOTED ☐ RE-SUBMIT ☐
...ERATIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE ...NTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE PROJECT'S DRAWINGS AND SPECIFICATIONS ...IS CHECK IS NOT A DETAILED CONFIRMATION OF ITEMS ON SHEET, NO GENERAL COMPLIANCE WITH INFORMATION IN THE CONTRACT DOCUMENTS ...TOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, ...FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.
...APPROVAL REPRESENTS OUR REVIEW OF SHOP DRAWINGS ONLY FOR THOSE MODIFICATIONS ...DESIRED HEREIN OR IN PREVIOUS SUBMISSIONS FOR ...SPECIFICALLY NOTED BY CONTRACTOR IN THE ...MISSION OR OTHER MODIFICATION TO THIS DRAWING ...THE CONTRACTOR OF PREVIOUSLY REVIEWED ...TERIAL IS SPECIFICALLY DISAPPROVED. IT IS ...TOOD THAT ENGINEERS NOTATIONS ...RIAL IS NOT TO BE CONSTRUED AS AUTHORIZATION ...TIONAL WORK OR COST.
8.3.18 BY EM

Stantec
Two South Biscayne Blvd. Suite 1070
Miami, Florida 33131
REVIEW NO EXCEPTIONS NOTED
Dated 7/12/18 By R.G.

"REVIEWED and APPROVED
FOR CODE COMPLIANCE"

NOVA ENGINEERING
and ENVIRONMENTAL LLC

1681 WEST VENTURES LLC
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
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STANTEC ARCHITECTURE INC.
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Miami, FL 33131-1804
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GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3950 NW 49th street
Miami, FL 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
CRA 8 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1830 HARRISON STREET SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEENVELOPE.COM
CA# 30168

REVIEWED FOR
STRUCTURAL COMPLIANCE
MANUEL E. GOMEZ
LICENSE
No 71643
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
MANUEL E. GOMEZ, PE
FL LIC. No. 71643

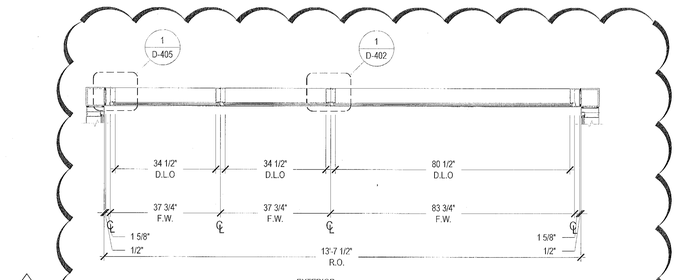
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
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4	05.22.2018	RESUBMITTAL PER BULLETIN #1 2018.04.10
5	06.08.2018	RESUBMITTAL PER PEEC COMMENTS 05072018 AJ

PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL
ELEVATION SYSTEM

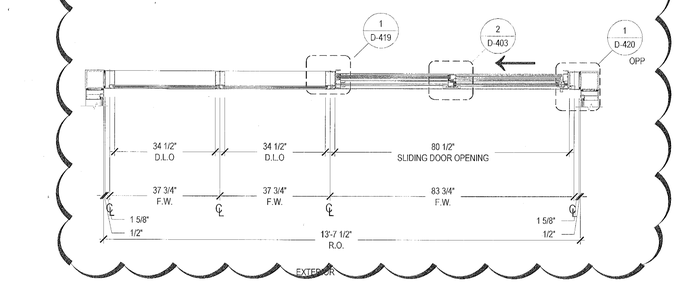
SHEET:
WE-310

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

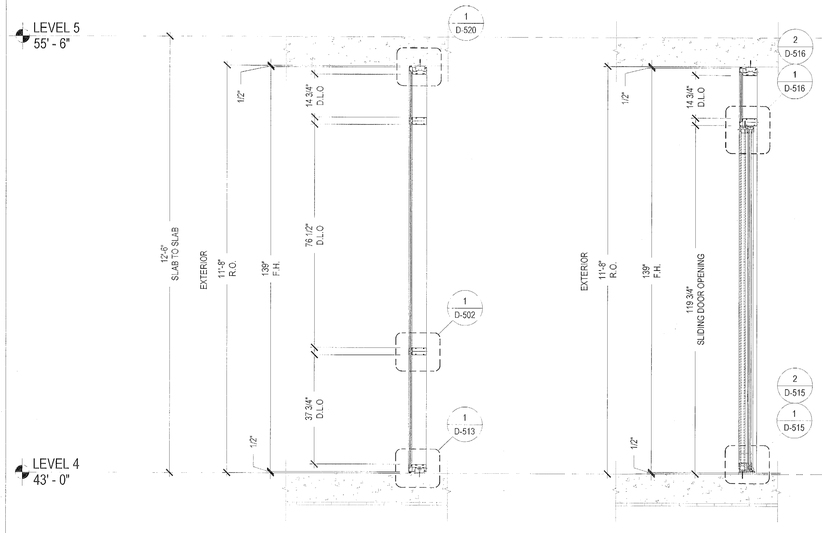


4

P02 WINDOW PLAN 1/2"= 1'-0"

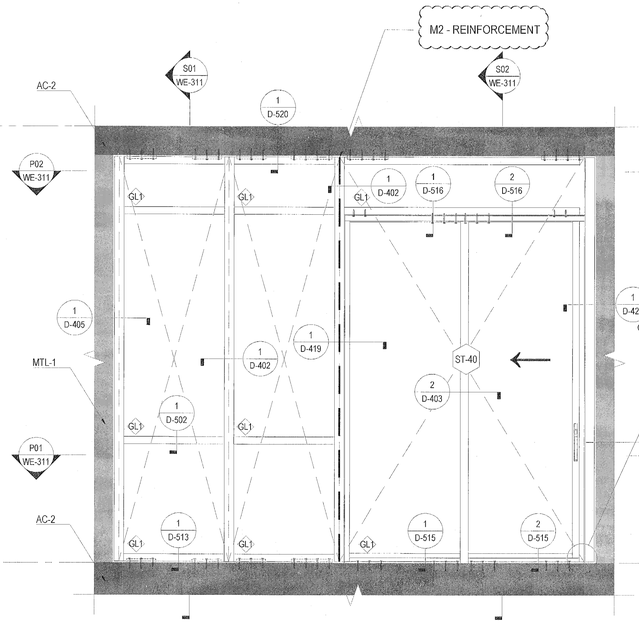


P01 WINDOW PLAN 1/2"= 1'-0"



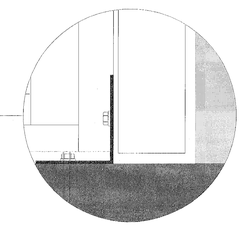
S01 WINDOW SECTION 1/2"= 1'-0"

S02 WINDOW SECTION 1/2"= 1'-0"



ST-40 WINDOW ELEVATION 1/2"= 1'-0"
SYSTEM: ES-7100 / ES-2400

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.



"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Davie Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3500 NW 49th street
Miami, FL 33142 EE.UU
Tel. 305-638-5151
Fax. 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
C/51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE ONLY BY
MANUEL MORALES JR. LICENSE
No 71643
STATE OF
9/13/18
PROFESSIONAL ENGINEER
MANUEL MORALES JR.
FL Registration

SHOP DRAWING REVIEW
APPROVED
APPROVED AS NOTED
NOT NOTED
RE-SUBMIT
CORRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. THIS REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR: CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING THE WORK OF ALL TRADES; AND PERFORMING WORK IN A SAFE AND SATISFACTORY MANNER.
THIS APPROVAL REPRESENTS OUR REVIEW OF THIS SUBMITTAL ONLY FOR THOSE MODIFICATIONS REQUESTED HEREIN OR IN PREVIOUS SUBMISSIONS NOT SPECIFICALLY NOTED BY CONTRACTOR IN THIS TRANSMITTAL OR ANY OTHER MODIFICATION TO THIS DRAWING BY THE CONTRACTOR OR PREVIOUSLY REVIEWED MATERIAL IS SPECIFICALLY DISAPPROVED. IT IS UNDERSTOOD THAT ENGINEERS NOTATIONS OR SIGNATURE ON THIS SUBMITTAL IS NOT TO BE CONSTRUED AS AUTHORIZATION FOR ADDITIONAL WORK OF COST.
DATE: 8-31-18 BY: EM

Stantec
Two South Biscayne Blvd. Suite 1670
Miami, Florida 33131
REVIEW: NO EXCEPTIONS NOTED
Dated: 9/12/18 By: R.G.

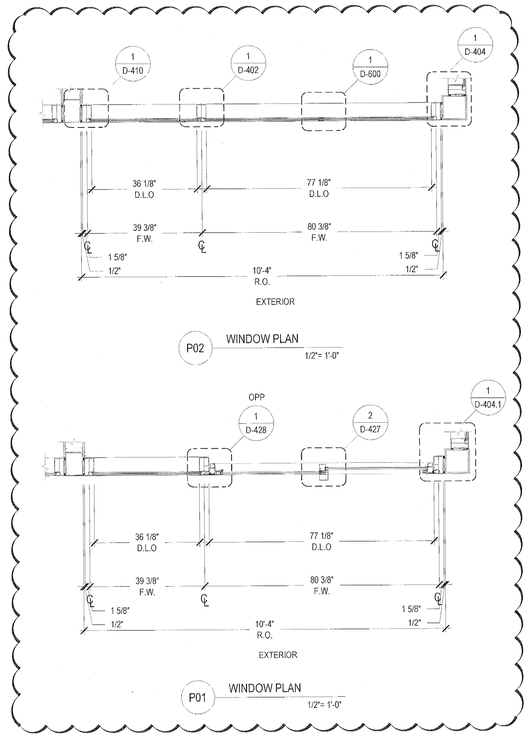
REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	12.26.2017	FIRST SUBMITTAL UPDATE
3	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05.22.2018	RESUBMITTAL PER BULLETIN #1 2018.04.10
5	06.08.2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

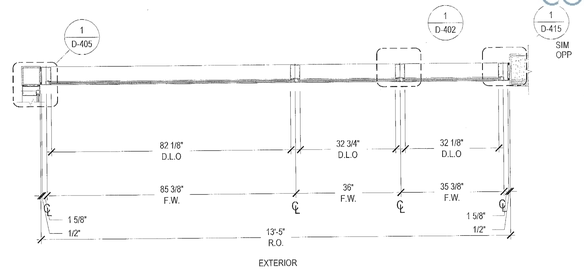
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
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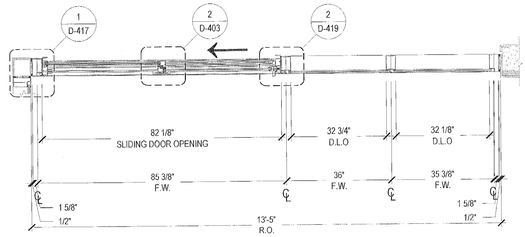
SHEET:
WE-311

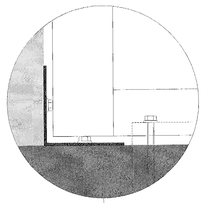
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

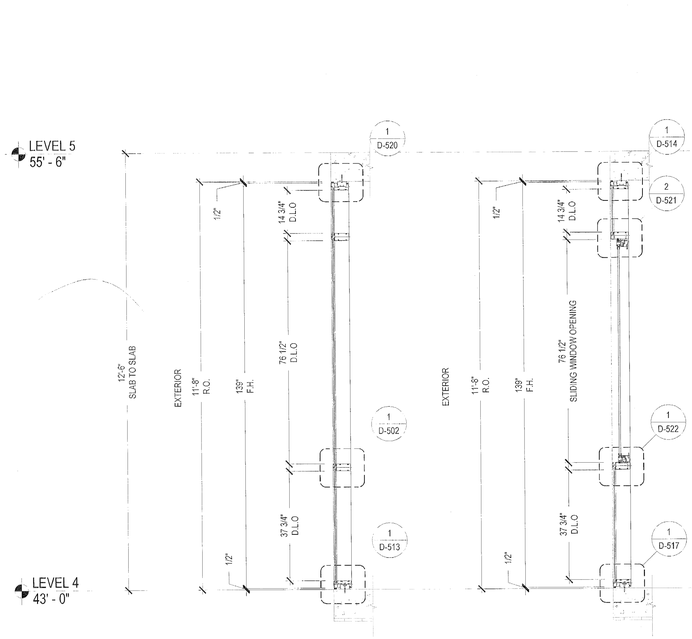


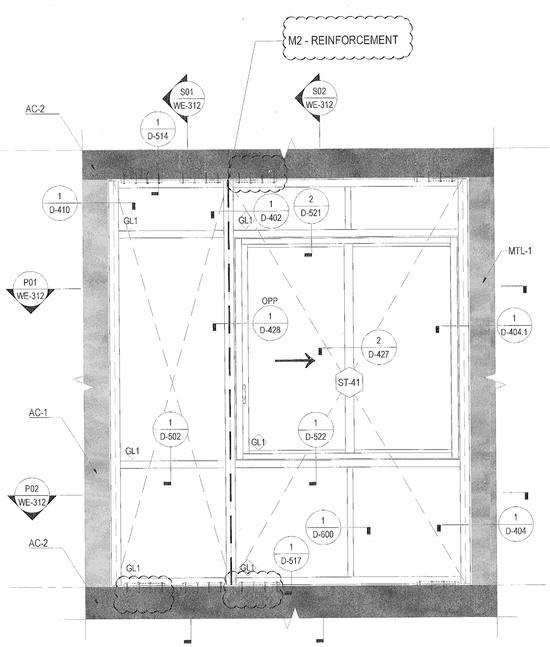
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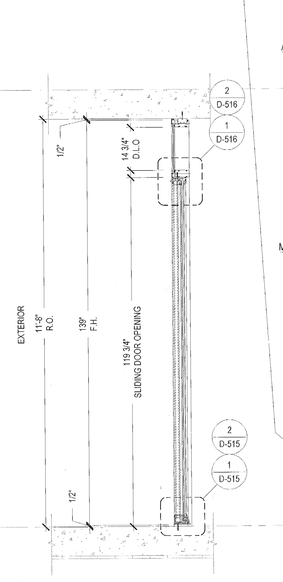


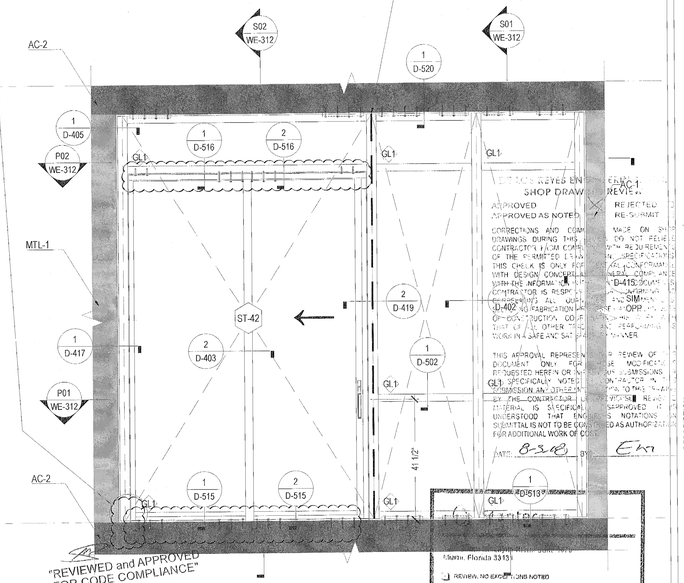




MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200
LEVEL 5	1	BE-200

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.





MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

1681 WEST VENTURES LLC
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-0207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

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3550 NW 49th street
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Tel: 305-638-5151
Fax: 305-638-5156

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

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ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE
MANUEL A. MARTINEZ
LICENSED
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL MARTINEZ JR.
FL. Reg. # 71643

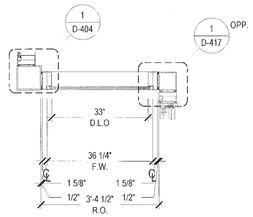
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
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4	05.22.2018	RESUBMITTAL PER BULLETIN # 2018.04.10
5	08.06.2018	RESUBMITTAL PER FEEC COMMENTS 08072018 JJ

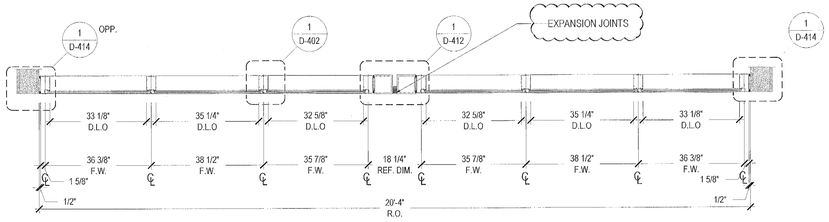
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-312

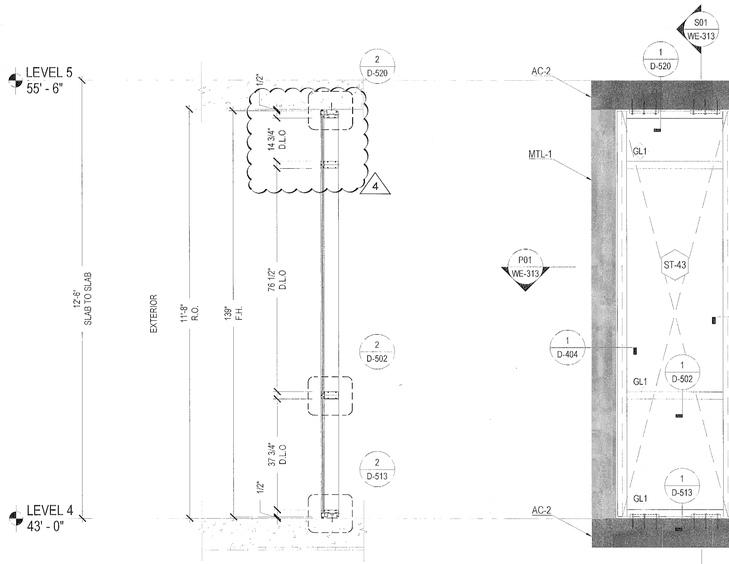
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



P01 WINDOW PLAN
1/2"= 1'-0"



P01 WINDOW PLAN
1/2"= 1'-0"

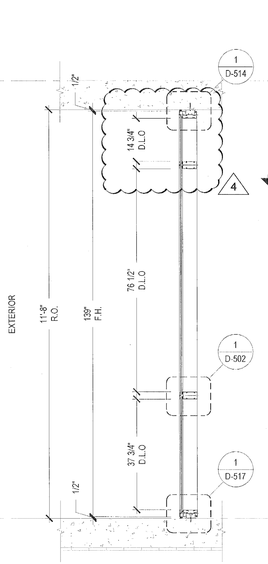


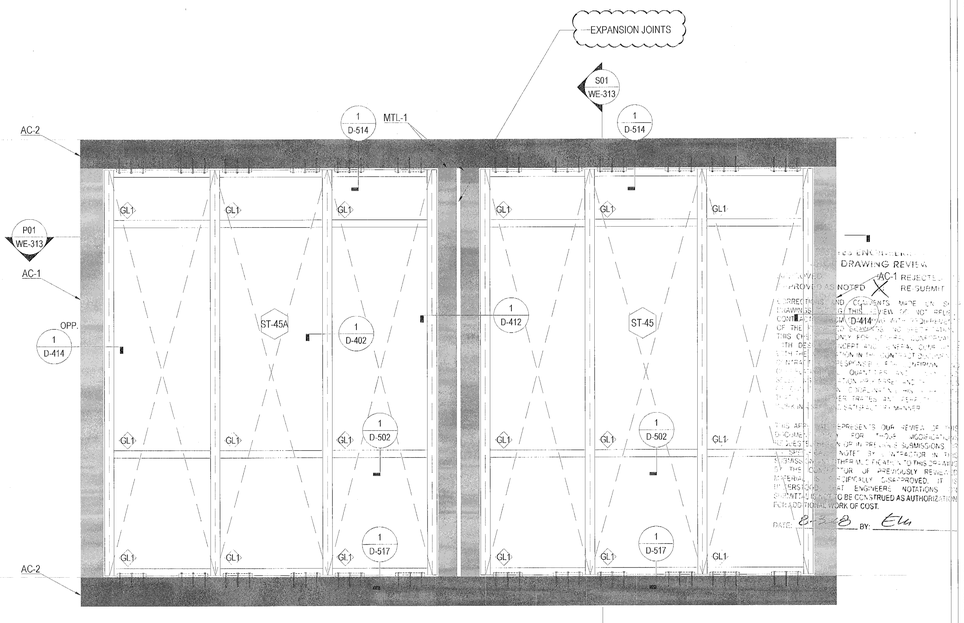
S01 WINDOW SECTION
1/2"= 1'-0"

ST-43 WINDOW ELEVATION
SYSTEM: ES-7100 1/2"= 1'-0"

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1 .	BE-200





S01 WINDOW SECTION
1/2"= 1'-0"

ST-45A WINDOW ELEVATION
SYSTEM: ES-7100 1/2"= 1'-0"

ST-45 WINDOW ELEVATION
SYSTEM: ES-7100

"REVIEWED and APPROVED
FOR CODE COMPLIANCE"

NOVA ENGINEERING
and ENVIRONMENTAL LLC

Stantec
799 Brickell Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW: NO EXCEPTIONS NOTED
Dated: 7/24/18 By: R.G.

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200
LEVEL 5	1	BE-200

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201
LEVEL 5	1	BE-201

1681 WEST VENTURES LLC
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
CA# 30168

REVIEWED FOR
STRUCTURAL COMPLIANCE
ONLY BY:
STATE OF FLORIDA
No 71643
PROFESSIONAL ENGINEER
MANOEL MORAIS, PE
FL Reg # 71643

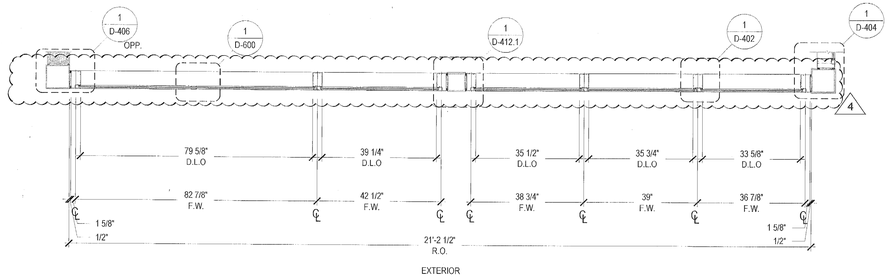
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01. 15. 2018	FIRST SUBMITTAL UPDATE
3	01. 17. 2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05. 22. 2018	RESUBMITTAL PER BULLETIN # 1 2018. 04. 10
5	06. 08. 2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

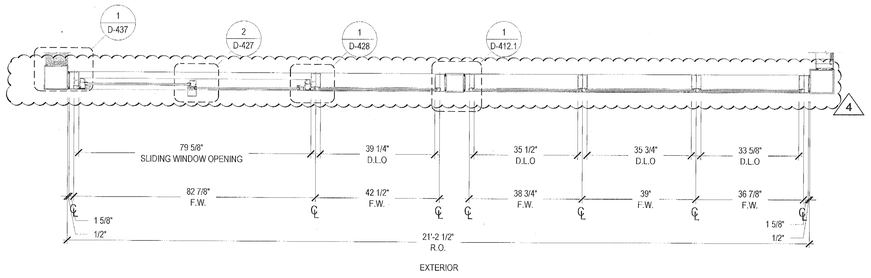
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-313

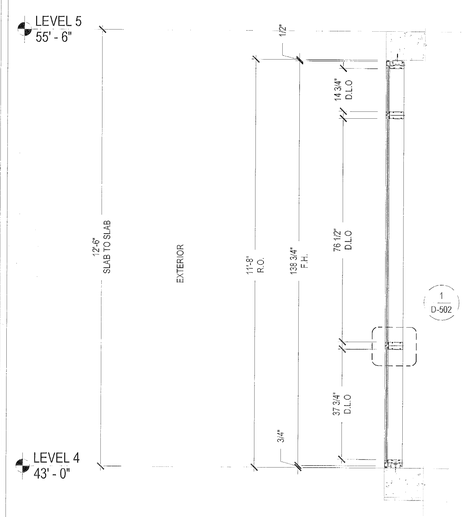
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



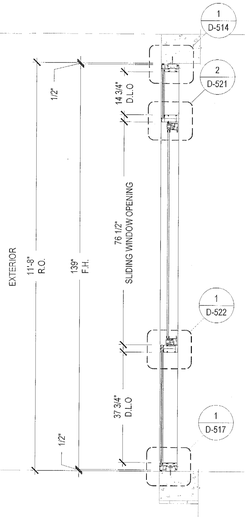
P02 WINDOW PLAN
1/2"= 1'-0"



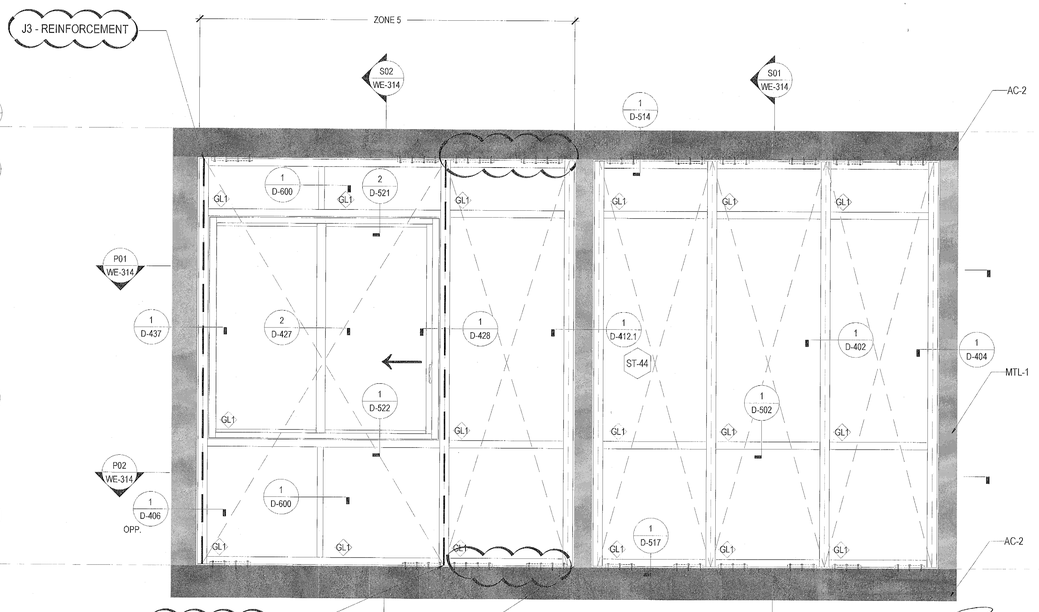
P01 WINDOW PLAN
1/2"= 1'-0"



S01 WINDOW SECTION
1/2"= 1'-0"



S02 WINDOW SECTION
1/2"= 1'-0"



ST-44 WINDOW ELEVATION
SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"

ZONE 5
LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

SHOP DRAWING REVIEW
APPROVED REJECTED
APPROVED AS NOTED RE-SUBMIT
CORRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE PERMITTED DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF THIS WORK WITH ALL OTHER TRADES; AND PERFORMING ALL WORK SAFELY AND SATISFACTORILY.
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8-3-18 BY: EM

Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/12/18 By R.G.

"REVIEWED and APPROVED FOR CODE COMPLIANCE"
NOVA ENGINEERING and ENVIRONMENTAL, LLC

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-200

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

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954-626-0451

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gmp
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3550 NW 49th street
Miami, FL 33142 EE.UU
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Fax. 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954)-599-1729
WWW.FACADENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE ONLY BY MANUFACTURER'S ENGINEER
LICENSE No 71640 STATE OF FLORIDA
MANUFACTURER'S ENGINEER
PROFESSIONAL ENGINEER
Not valid without the original signature and original seal of the Florida licensed engineer.

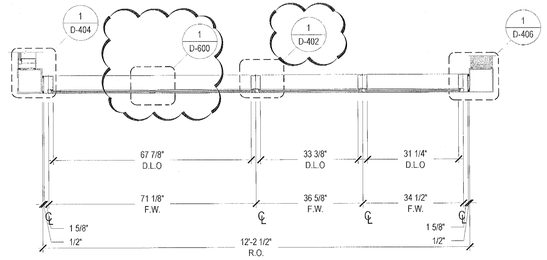
REVISION N°	DATE	DESCRIPTION
A	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
A	01.15.2018	FIRST SUBMITTAL UPDATE
A	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
A	06.22.2018	RESUBMITTAL PER BULLETIN #1 2018.04.19
A	06.06.2018	RESUBMITTAL PER FEEC COMMENTS 06072018 AJ

17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

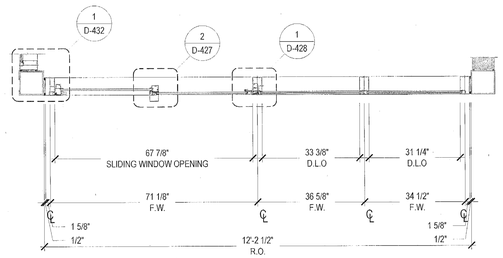
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-314

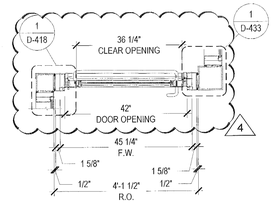
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

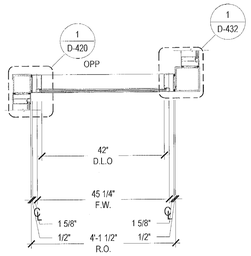


P02 WINDOW PLAN 1/2"= 1'-0"

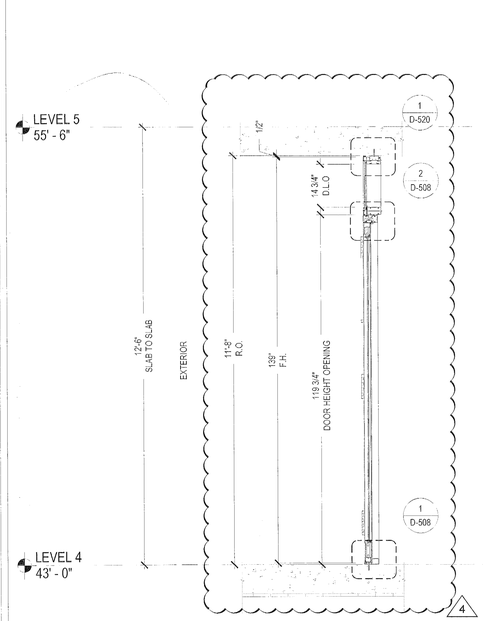


P01 WINDOW PLAN 1/2"= 1'-0"

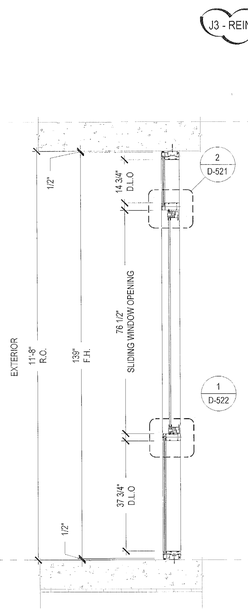




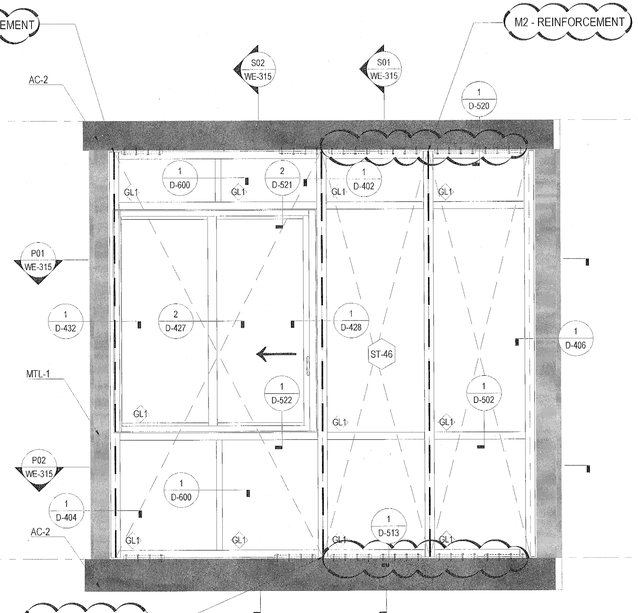
P01 WINDOW PLAN 1/2"= 1'-0"



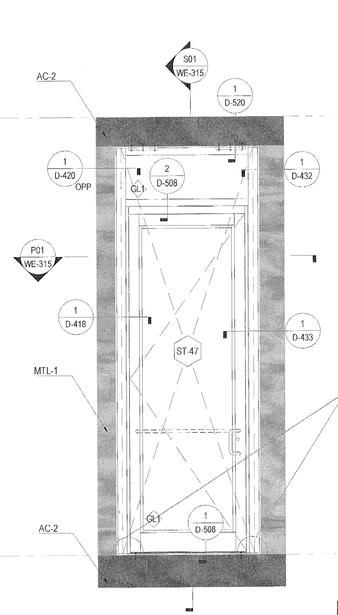
S01 WINDOW SECTION 1/2"= 1'-0"



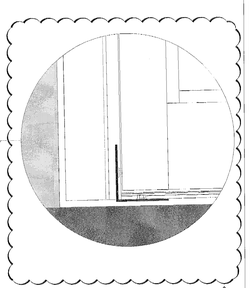
S02 WINDOW SECTION 1/2"= 1'-0"



ST-46 WINDOW ELEVATION
SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"



ST-47 WINDOW ELEVATION
SYSTEM: ES-7100 / ES-9100 1/2"= 1'-0"



LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201

"REVIEWED and APPROVED FOR CODE COMPLIANCE"
NOVA ENGINEERING and ENVIRONMENTAL LLC

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

REFERENCE:
SHOP DRAWING REVIEW
APPROVED REJECTED
APPROVED AS NOTED RE-SUBMIT

DIRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

THIS APPROVAL REPRESENTS OUR REVIEW OF THIS DOCUMENT ONLY FOR THOSE MODIFICATIONS INDICATED HEREON OR IN OUR TRANSMITTAL LETTER AS SPECIFICALLY NOTED. NO CHANGE OR THIS SUBMISSION SHALL BE CONSTRUED AS RELIEVING THE CONTRACTOR OF PREVIOUSLY REVIEWED MATERIAL IS SPECIFICALLY DISAPPROVED. IT IS UNDERSTOOD THAT ENGINEERS NOTATIONS ON SUCH ITEMS IS NOT TO BE CONSTRUED AS AUTHORIZATION FOR ADDITIONAL WORK OF COST.

DATE: 8-3-18 BY: EU

Stantec
Two South Biscayne Blvd., Suite 1070
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/12/18 By R.G.

1691 WEST VENTURES LLC
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-6207

ARCHITECT:
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STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1070
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Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5156

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 Of. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 224
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEENVELOPE.COM
CA# 30105

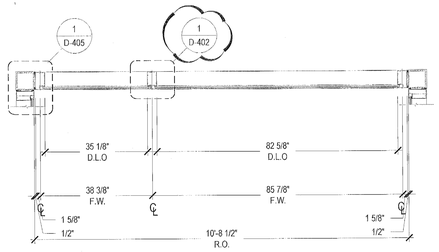
STRUCTURAL COMPLIANCE
MANUEL MORALES
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL MORALES PE
FL. REG. # 71643

17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01.15.2018	FIRST SUBMITTAL UPDATE
3	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	06.22.2018	RESUBMITTAL PER BULLETIN # 2018.04.10
5	06.08.2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

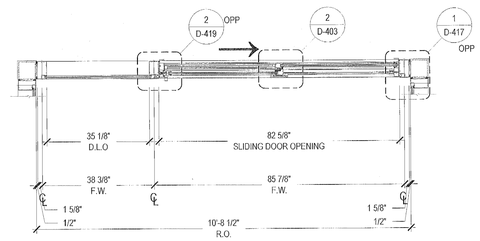
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM
SHEET:
WE-315

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



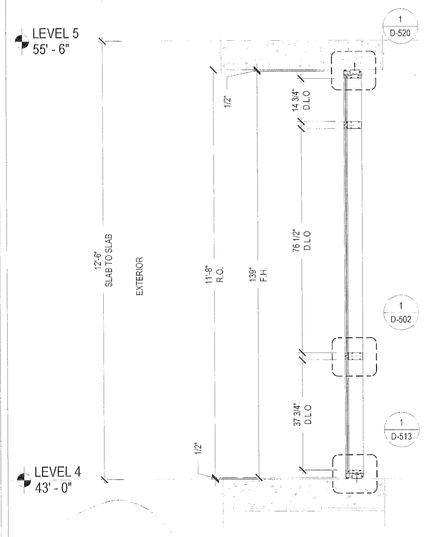
EXTERIOR

P02 WINDOW PLAN 1/2"= 1'-0"

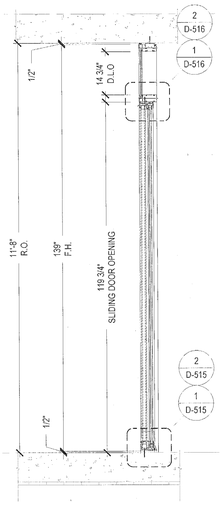


EXTERIOR

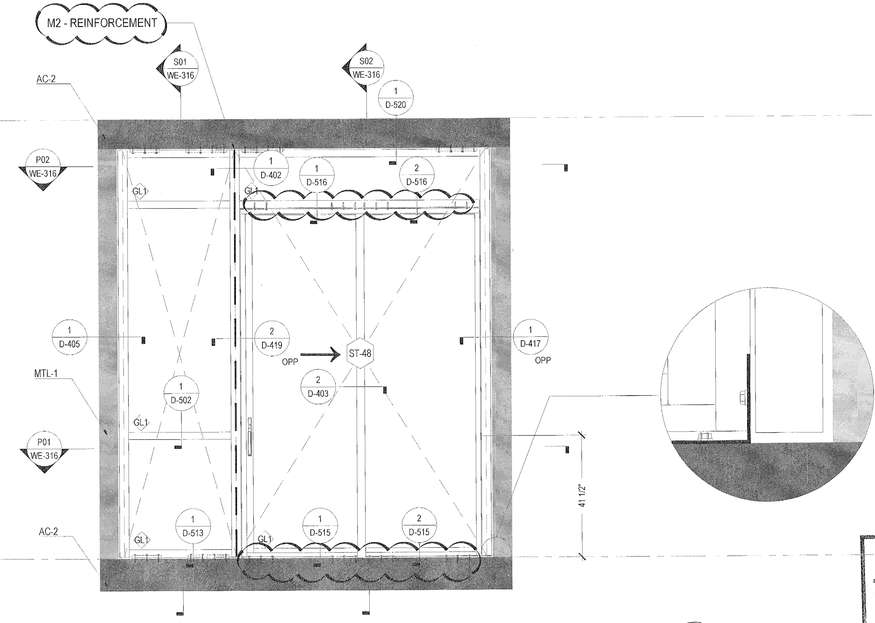
P01 WINDOW PLAN 1/2"= 1'-0"



S01 WINDOW SECTION 1/2"= 1'-0"



S02 WINDOW SECTION 1/2"= 1'-0"



ST-48 WINDOW ELEVATION
SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

SHOP DRAWING REVIEW
APPROVED REJECTED
APPROVED AS NOTED RE-SUBMIT

DIRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE PERMITTED DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION IN COORDINATION WITH ALL OTHER TRADES AND THAT PROJECT IS CONSTRUCTED IN A SAFE AND SATISFACTORY MANNER.

THIS APPROVAL REPRESENTS OUR REVIEW OF WORK INCLUDED HEREIN ONLY FOR THOSE MODIFICATIONS SPECIFICALLY NOTED BY CONTRACTOR IN THE TRANSMITTAL AND OTHER MODIFICATIONS TO THE DRAWINGS NOT SPECIFICALLY DISAPPROVED. IT IS CONTRACTOR'S AND ENGINEERS NOTATIONS ON SHOP DRAWINGS MATERIAL IS NOT TO BE CONSTRUED AS AUTHORIZATION FOR ADDITIONAL WORK OF COST.

BY:

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL, LLC

Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated: 7/12/18 By: R. G.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201

1081 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
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STANTEC ARCHITECTURE INC.
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2 South Biscayne Boulevard
Miami, FL 33131-1804
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GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-220-3451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80 58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1000 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 585-1729
WWW.FACADENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE
MANUEL GONZALES, P.E.
LICENSE No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL GONZALES, P.E.
FL. Reg. # 71643

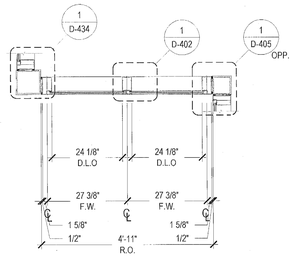
REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01. 15. 2018	FIRST SUBMITTAL UPDATE
3	01. 17. 2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05. 22. 2018	RESUBMITTAL PER BULLETIN # 2018.04.10
5	06. 06. 2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-316

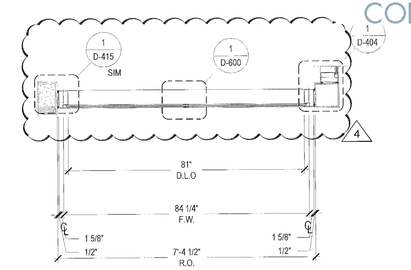
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



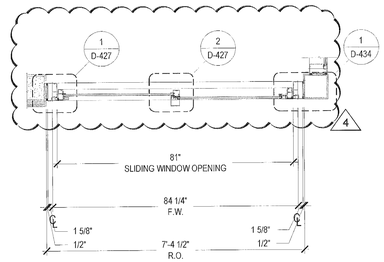
EXTERIOR

P01 WINDOW PLAN 1/2"= 1'-0"



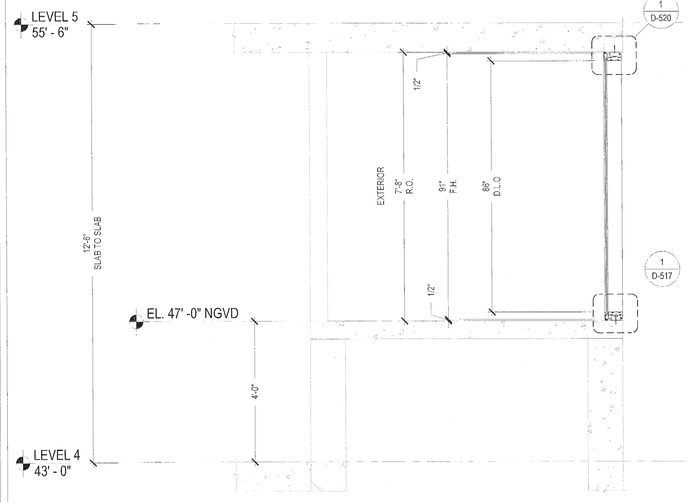
EXTERIOR

P02 WINDOW PLAN 1/2"= 1'-0"

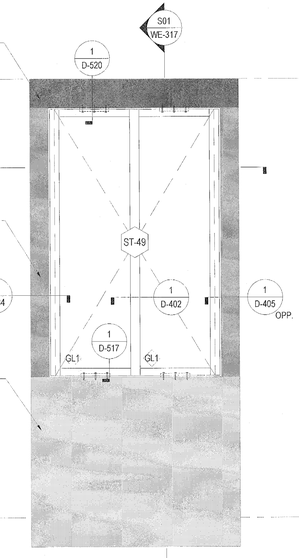


EXTERIOR

P01 WINDOW PLAN 1/2"= 1'-0"

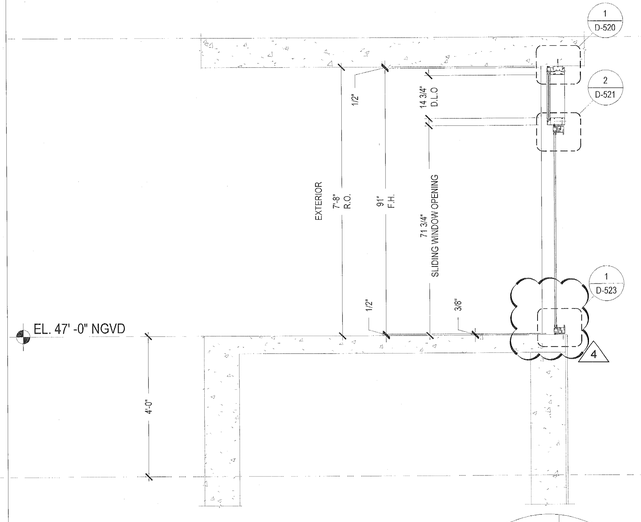


S01 WINDOW SECTION 1/2"= 1'-0"



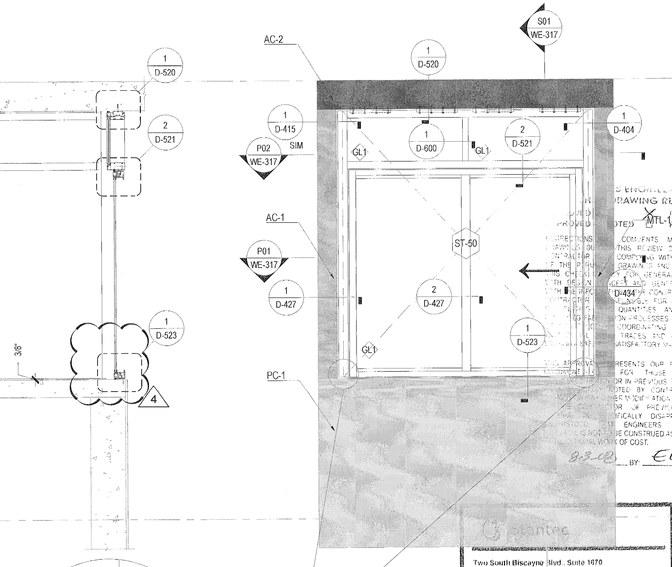
ST-49 WINDOW ELEVATION SYSTEM: ES-7100 1/2"= 1'-0"

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.



S01 WINDOW SECTION 1/2"= 1'-0"

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.



ST-50 WINDOW ELEVATION SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201

1661 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
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Miami, FL 33131-1804
T: (305) 482 8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Davia Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142 EE.UU
Tel: 305-635-5151
Fax: 305-635-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
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HOLLYWOOD, FL 33020 (954) 589-1779
WWW.FACADEENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE
MANUEL A. NOVA
LICENSE
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL ANTONIO NOVA
PE 71643

17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
A	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL-LEVEL 4 TO LEVEL 5
A	01.15.2018	FIRST SUBMITTAL UPDATE
A	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
A	05.22.2018	RESUBMITTAL PER BULLETIN #1 2018.04.10
A	06.08.2018	RESUBMITTAL PER FEDC COMMENTS 06/7/2018 JJ

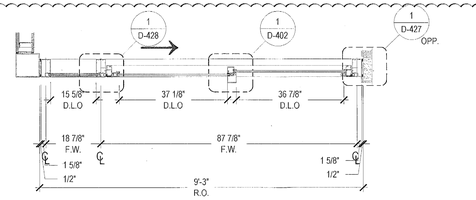
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-317

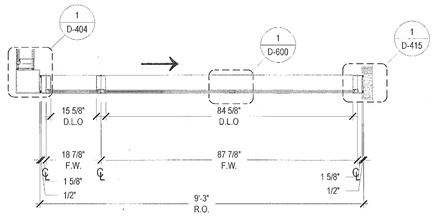
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEWED for EXCEPTIONS NOTED
Dated 7/12/18 By R. G.

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

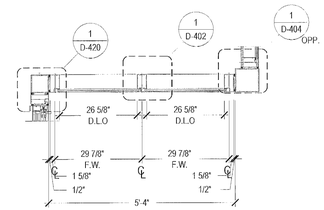
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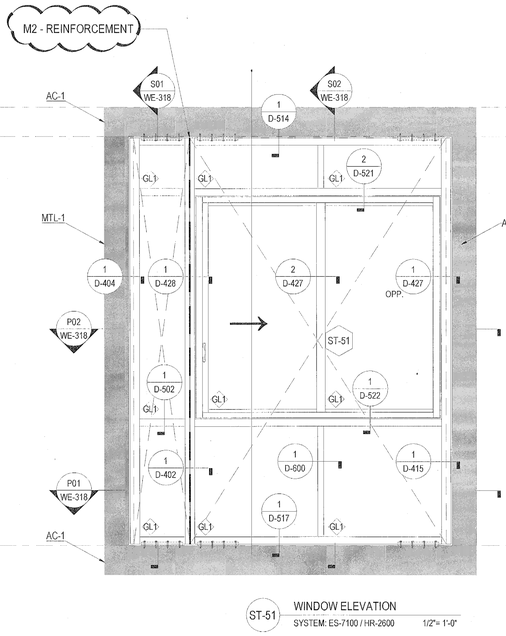
P02 WINDOW PLAN 1/2"= 1'-0"



P02 WINDOW PLAN 1/2"= 1'-0"



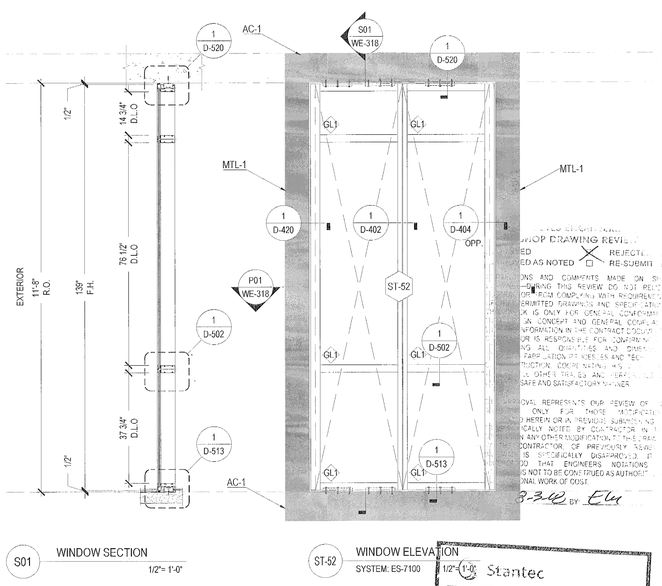
P01 WINDOW PLAN 1/2"= 1'-0"



S02 WINDOW SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"

ST-51 WINDOW ELEVATION SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"



S01 WINDOW SECTION 1/2"= 1'-0"

ST-52 WINDOW ELEVATION SYSTEM: ES-7100 1/2"= 1'-0"

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201
LEVEL 5	1	BE-201

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW; NO EXCEPTIONS NOTED
Dated 7/12/18 By R.G.

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
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T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3500 NW 49th street
Miami, FL 33142 EE UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEINVELOPE.COM
CA# 30168

PRELIMINARY FOR STRUCTURAL COMPLIANCE
MANUEL MORENO P.E.
FL Reg # 71643

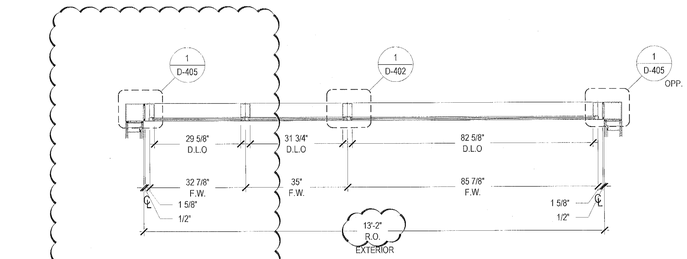
REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01.15.2018	FIRST SUBMITTAL-UPDATE
3	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05.22.2018	RESUBMITTAL PER BULLETIN #1 2018_04_10
5	06.06.2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

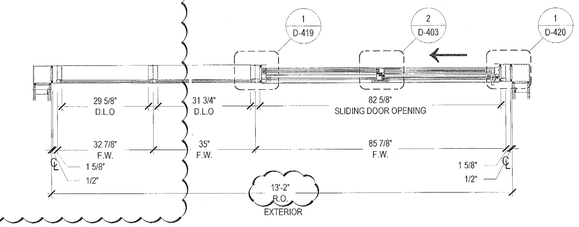
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

SHEET:
WE-318

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

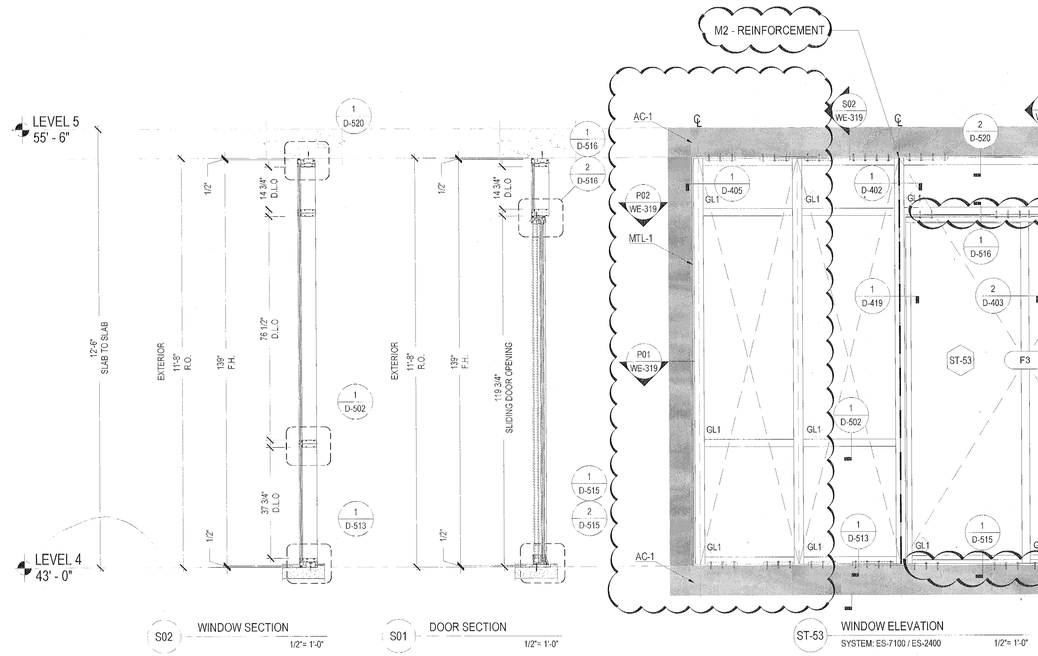


P02 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"

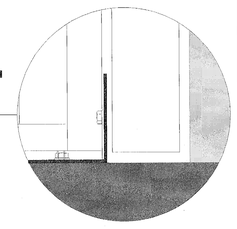
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S02 WINDOW SECTION 1/2"= 1'-0"

S01 DOOR SECTION 1/2"= 1'-0"

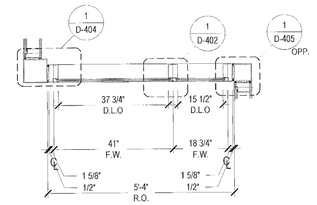
ST-53 WINDOW ELEVATION SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"



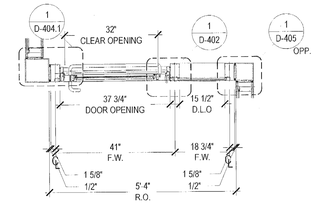
LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201

4

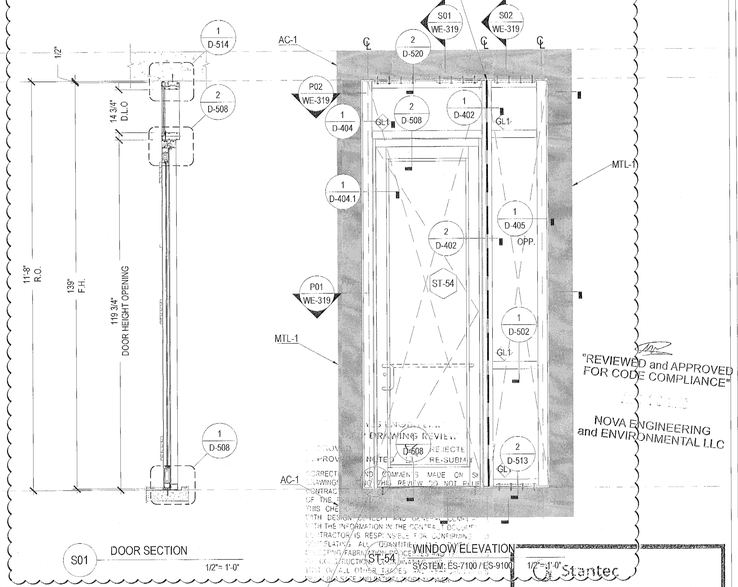


P02 WINDOW PLAN 1/2"= 1'-0"



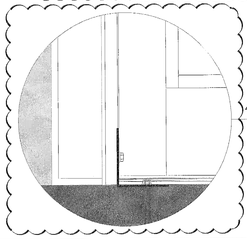
P01 WINDOW PLAN 1/2"= 1'-0"

M2 - REINFORCEMENT



S01 DOOR SECTION 1/2"= 1'-0"

ST-54 WINDOW ELEVATION SYSTEM: ES-7100 / ES-9100 1/2"= 1'-0"



LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201

"REVIEWED and APPROVED FOR CODE COMPLIANCE"
NOVA ENGINEERING and ENVIRONMENTAL LLC

DRAWING REVIEW
REJECTED
RE-SUBMIT

THIS APPROVAL REPRESENTS OUR REVIEW OF THIS DOCUMENT ONLY FOR THOSE MODIFICATIONS REQUESTED HEREIN OR IN PREVIOUS SUBMISSIONS SPECIFICALLY NOTED BY CONTRACTOR IN THE SUBMISSION. ANY OTHER MODIFICATIONS TO THE DRAWINGS THE CONTRACTOR OR PREVIOUSLY REVIEWED FINAL IS SPECIFICALLY DISAPPROVED. IT IS UNDERSTOOD THAT ENGINEERS NOTATION "APPROVED" IS NOT TO BE CONSTRUED AS AUTHORIZATION OF ADDITIONAL WORK OR COST.

8-3-18 BY EM

Stantec
Two South Biscayne Blvd. Suite 1670
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/24/18 By R.G.

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-6207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1004
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 305
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, Fl. 33142 E.E.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1990 HARRISON STR&ST. SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
C/A# 30169

REVIEWED FOR CODE COMPLIANCE
STRUCTURAL COMPLIANCE ONLY
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANOUCHEHR NAVAEE, P.E.
FL Reg # 71643

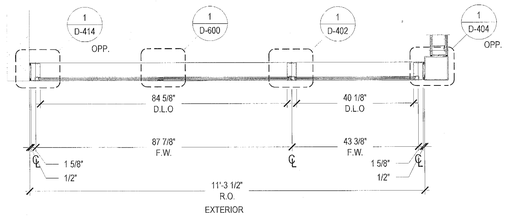
REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 6
2	01.15.2018	FIRST SUBMITTAL UPDATE
3	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05.22.2018	RESUBMITTAL PER BULLETIN #1 2018_04_10
5	06.08.2018	RESUBMITTAL PER FEDC COMMENTS 06072018.pdf

17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

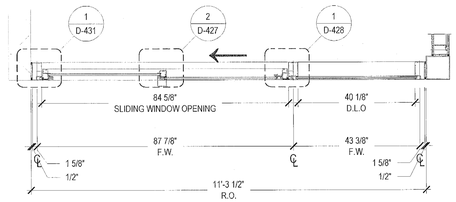
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-319

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

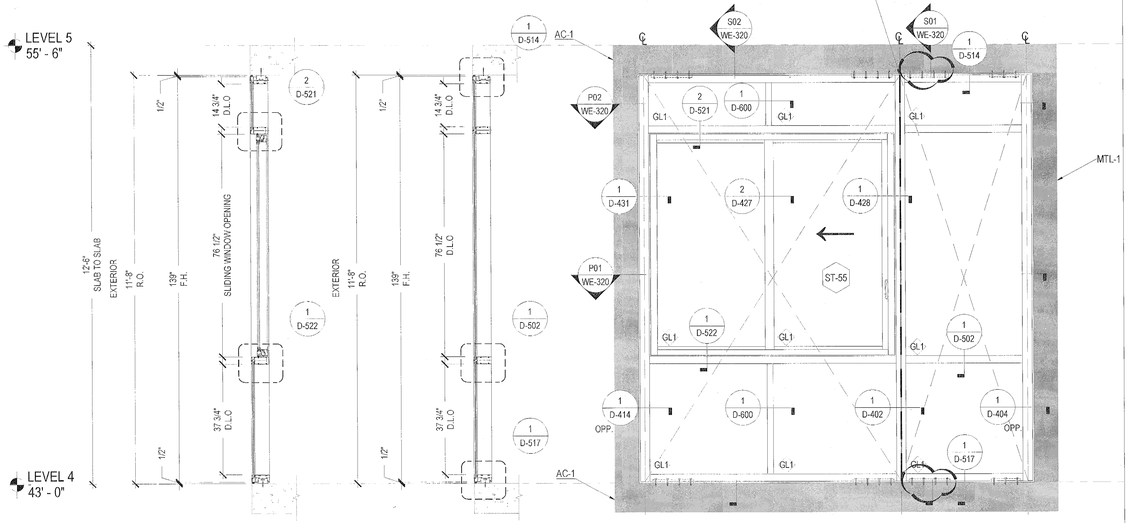


P02 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"

M2 - REINFORCEMENT



S02 WINDOW SECTION 1/2"= 1'-0"

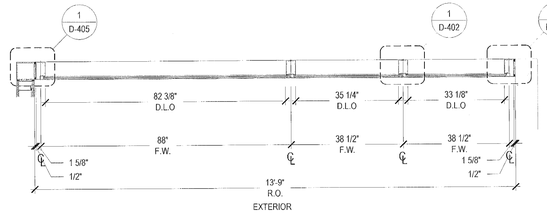
S01 WINDOW SECTION 1/2"= 1'-0"

ST-55 WINDOW ELEVATION
SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"

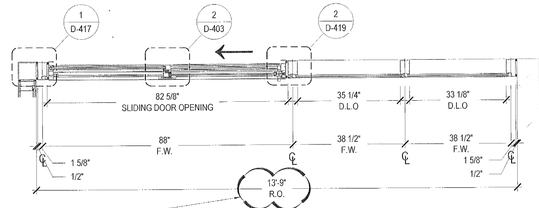
LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201
LEVEL 5	1	BE-201

4



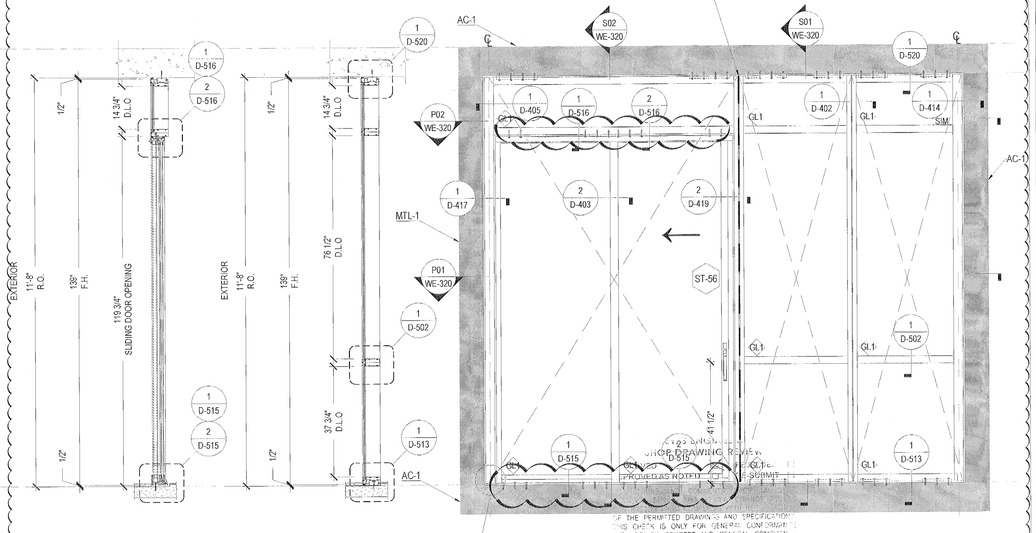
P02 WINDOW PLAN 1/2"= 1'-0"



ARCH TO CONFIRM DISCREPANCY:
A-104B 13' - 9"
ST-100 A-914 13' - 7 1/2"

P01 WINDOW PLAN 1/2"= 1'-0"

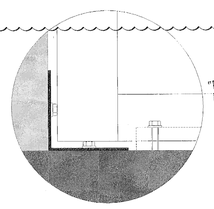
M2 - REINFORCEMENT



S02 DOOR SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"

ST-56 WINDOW ELEVATION
SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"



"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201

THE PERMITTED DRAWINGS AND SPECIFICATIONS
THIS CHECK IS ONLY FOR GENERAL CONFORMITY
WITH DESIGN CONCEPT AND GENERAL
WITH THE INFORMATION
RESPONSIBILITY
ALONG ALL
AND FABRICATION PROCESSES AND TH
CONSTRUCTION COORDINATING
ALL OTHER TRADES AND PERFORMING
IN A SAFE AND SATISFACTORY MANNER.
APPROVAL REPRESENTS OUR REVIEW OF
ONLY FOR
SPECIFICALLY NOTED BY CONTRACTOR IN
MODIFICATION TO THIS DRAWING
THE CONTRACTOR OF PREVIOUSLY REJECTED
MATERIAL IS SPECIFICALLY DISAPPROVED. IT
UNDERSTOOD THAT ENGINEERS NOTATIONS
INITIAL IS NOT TO BE CONSTRUED AS AUTHORIZ
WITHOUAL WORK OF COST.
8-3-18 BY: ELL
SHOP DRAWINGS REVIEWED
APPROVED AS NOTED
RESUBMIT
Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/9/18 By R.G.

1681 WEST VENTURES LLC.
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Aventura, FL 33180
T: (305) 914-0307

ARCHITECT:
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GENERAL CONTRACTOR:
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Dania Beach, FL 33312
954-626-0451

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SHOP DRAWINGS BY:
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4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1920 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 585-1729
WWW.FACADEANDENVELOPE.COM
C/A# 30168

STRUCTURAL ENGINEER
MANUEL A. VELEZ
LICENSED
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL ANTONIO VELEZ
FL REG. # 71643

REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01.15.2018	FIRST SUBMITTAL UPDATE
3	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05.22.2018	RESUBMITTAL PER BULLETIN #1 2018.04.10
5	06.08.2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

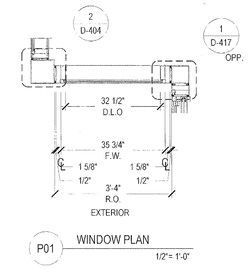
PROJECT #: SD2017009
17TH & WEST AVENUE

SCALE: 1/2" = 1'-0"

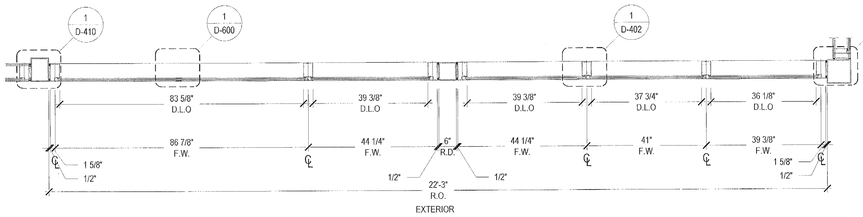
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-320

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

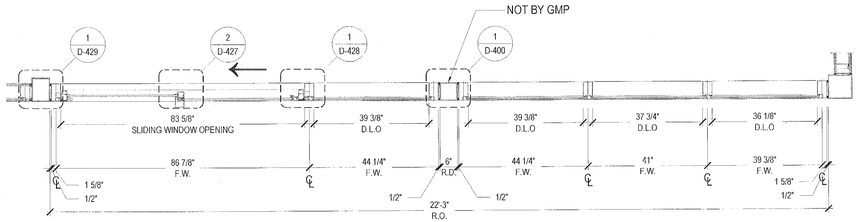


P01 WINDOW PLAN
1/2"= 1'-0"



P02 WINDOW PLAN
1/2"= 1'-0"

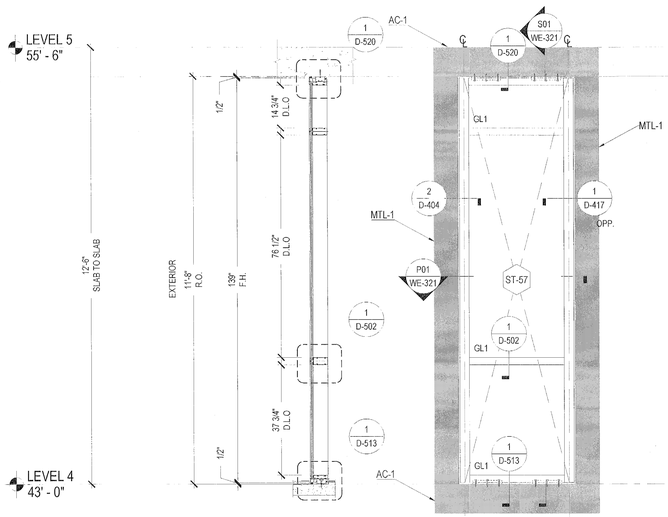
NOT BY GMP



P01 WINDOW PLAN
1/2"= 1'-0"

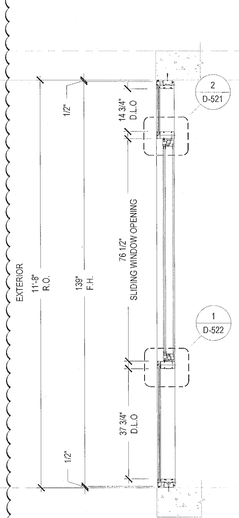
M2 - REINFORCEMENT

NOT BY GMP

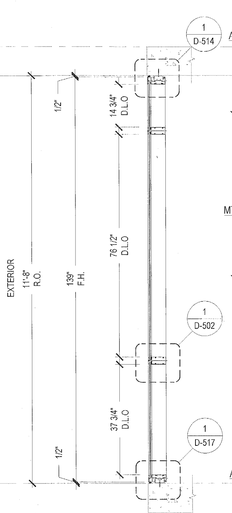


S01 WINDOW SECTION
1/2"= 1'-0"

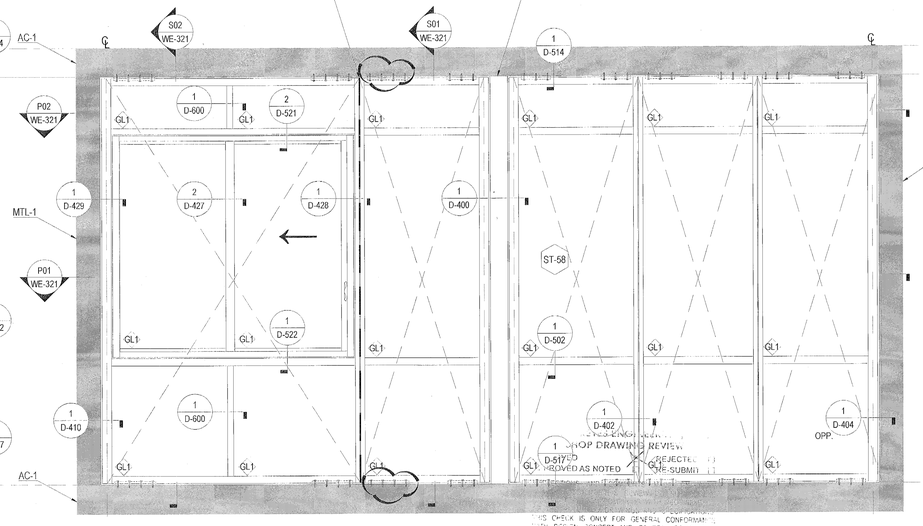
ST-57 WINDOW ELEVATION
SYSTEM: ES-7100 1/2"= 1'-0"



S02 WINDOW SECTION
1/2"= 1'-0"



S01 WINDOW SECTION
1/2"= 1'-0"



ST-58 WINDOW ELEVATION
SYSTEM: ES-7100 / HR-2600

SHOP DRAWING REVIEW
APPROVED
APPROVED AS NOTED
REJECTED
RE-SUBMIT

THIS CHECK IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING THE QUANTITIES AND DIMENSIONS; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF HIS WORK.

APPROVAL REPRESENTS OUR REVIEW OF THIS SHOP DRAWING FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING THE QUANTITIES AND DIMENSIONS; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH THAT OF ALL OTHER TRADES AND THE SATISFACTORY PERFORMANCE OF HIS WORK. APPROVAL DOES NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR OF RESPONSIBILITY FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. WHERE SHOP DRAWINGS ARE REVISED AND RESUBMITTED, CONTRACTOR SHALL SPECIFICALLY BRING TO THE ATTENTION OF THE ARCHITECT AND ENGINEER ALL REVISIONS OTHER THAN THOSE REQUESTED BY THE ARCHITECT AND ENGINEER. NOTATIONS OR COMMENTS ON SHOP DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT REQUIREMENTS. APPROVAL OF SHOP DRAWINGS IS NOT TO BE CONSTRUED AS AUTHORIZATION OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT AND ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT AND ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR OF RESPONSIBILITY FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. WHERE SHOP DRAWINGS ARE REVISED AND RESUBMITTED, CONTRACTOR SHALL SPECIFICALLY BRING TO THE ATTENTION OF THE ARCHITECT AND ENGINEER ALL REVISIONS OTHER THAN THOSE REQUESTED BY THE ARCHITECT AND ENGINEER. NOTATIONS OR COMMENTS ON SHOP DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM CONTRACT REQUIREMENTS. APPROVAL OF SHOP DRAWINGS IS NOT TO BE CONSTRUED AS AUTHORIZATION OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT AND ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMISSION AND THE ARCHITECT AND ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR OF RESPONSIBILITY FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.

Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW. NO EXCEPTIONS NOTED
Dated 7/26/18 By

"REVIEWED and APPROVED FOR CODE COMPLIANCE"
NOVA ENGINEERING and ENVIRONMENTAL LLC
8-3-18 BY:

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201

1681 WRST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3950 NW 49th street
Miami, Fl. 33142 EE UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-59 OF. 901
Smart Office Center
Barranquilla, Colombia
FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEANDENVELOPE.COM
CA# 30165

REVIEWED FOR STRUCTURAL COMPLIANCE
MANUEL A. MANJARRES
LICENSE
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL A. MANJARRES, P.E.
FL. REG. # 71643

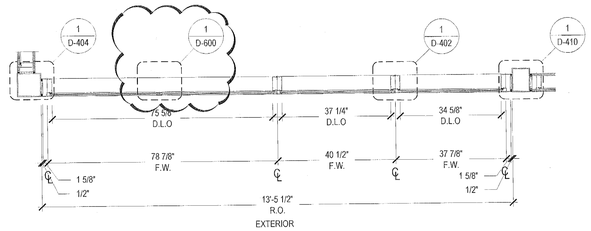
REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01. 15. 2018	FIRST SUBMITTAL UPDATE
3	01. 17. 2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05. 22. 2018	RESUBMITTAL PER BULLETIN #1 2018_04 - 10
5	06. 08. 2018	RESUBMITTAL PER FEEC COMMENTS 06/7/2018 JJ

17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

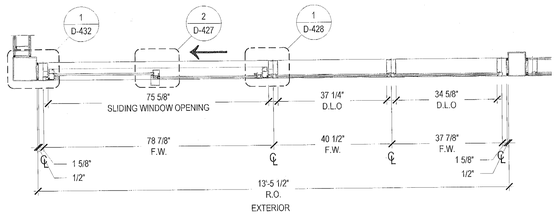
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-321

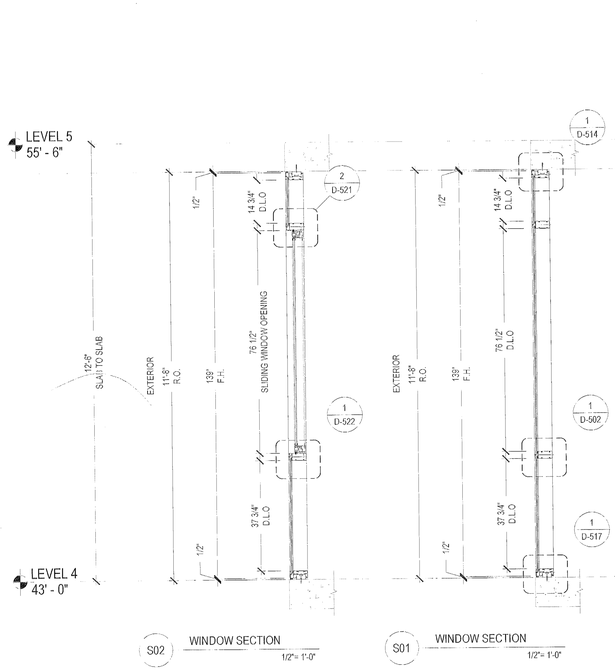
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



P02 WINDOW PLAN 1/2"= 1'-0"

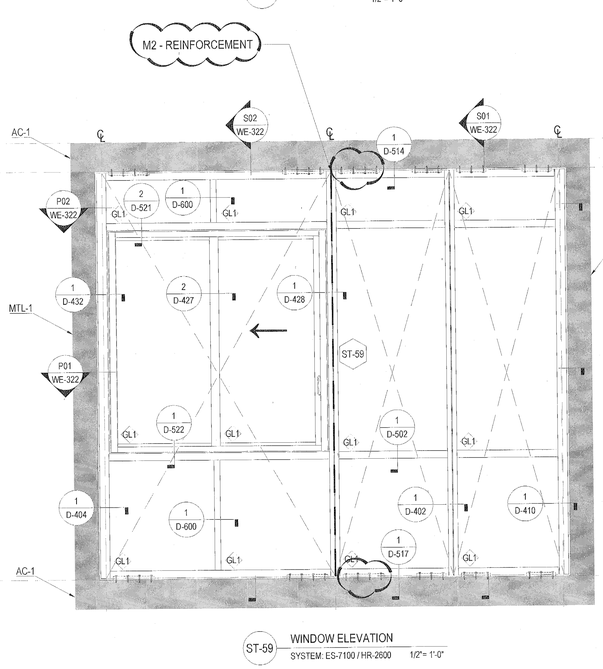


P01 WINDOW PLAN 1/2"= 1'-0"



S02 WINDOW SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"

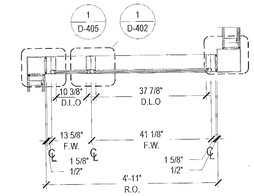


ST-59 WINDOW ELEVATION SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"

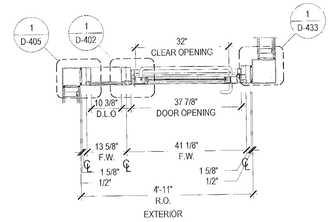
LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
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LEVEL 4	1	BE-201

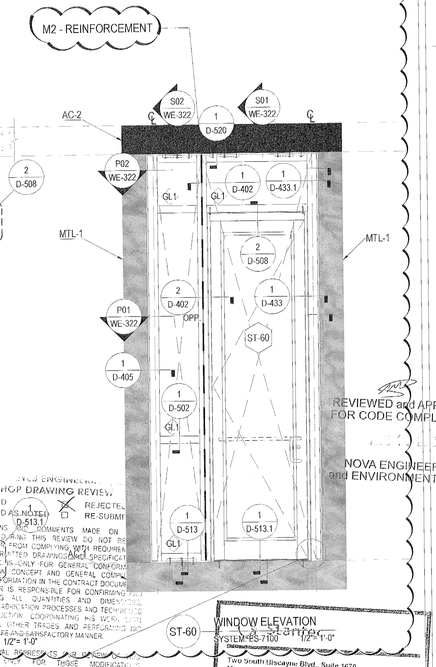
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P02 WINDOW PLAN 1/2"= 1'-0"



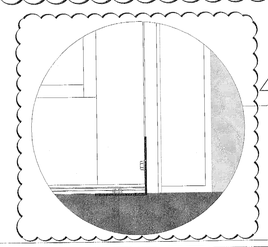
P01 WINDOW PLAN 1/2"= 1'-0"



S02 WINDOW SECTION 1/2"= 1'-0"

S01 DOOR SECTION 1/2"= 1'-0"

ST-60 WINDOW ELEVATION SYSTEM: ES-7100 1/2"= 1'-0"



LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201

SHOP DRAWING REVIEW
APPROVED
APPROVED AS NOTED
REJECTED
RE-SUBMIT
D-513.1
ACTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF CONTRACT DOCUMENTS. REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING THE WORK WITH ALL OTHER TRADES AND PERFORMING THE WORK IN A SAFE AND SATISFACTORY MANNER.
8-3-18 BY: Em

WINDOW ELEVATION
SYSTEM: ES-7100
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW: NO EXCEPTIONS NOTED
Dated 7/24/18 By D.G.

REVIEWED and APPROVED FOR CODE COMPLIANCE"
NOVA ENGINEERING and ENVIRONMENTAL, LLC

1681 WEST VENTURES LLC
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
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Fax: 305-638-5158

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4G ARCHITECTURE S.A.S.
CRA 8 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

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ENGINEERING CONSULTANTS, LLC
1680 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEENVELOPE.COM
CA# 30166

REVIEWED FOR STRUCTURAL CONFORMANCE
MAXIMO NOVA PEREZ
LICENSE
No 71643
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
MAXIMO NOVA PEREZ
FL. REG. No. 71643

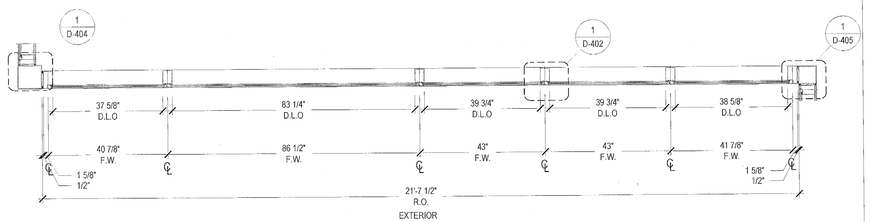
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°1	DATE	DESCRIPTION
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4	03. 22. 2018	RESUBMITTAL PER BULLETIN #1 2018. 04. 10
5	06. 06. 2018	RESUBMITTAL PER FEEC COMMENTS 06072018.pl...

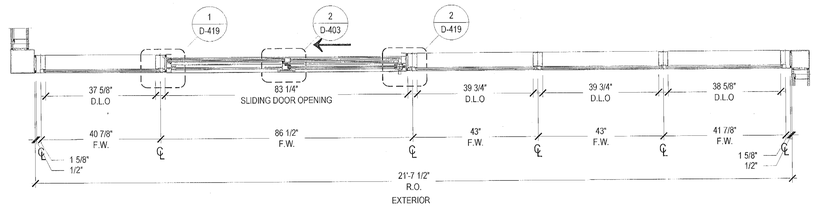
PROJECT #: SD201/009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-322

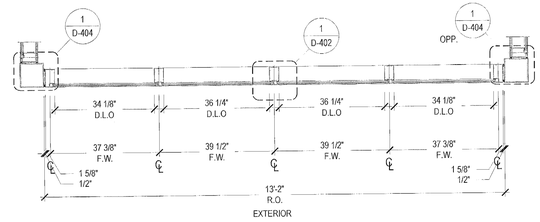
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



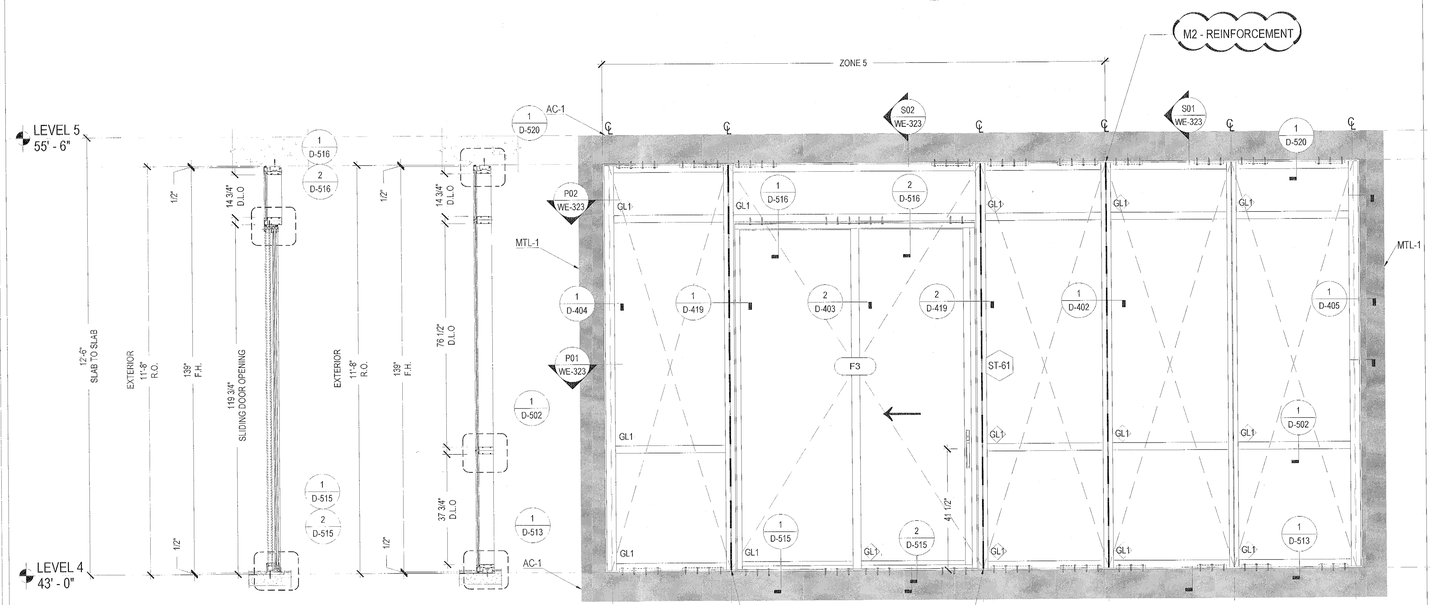
P02 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"



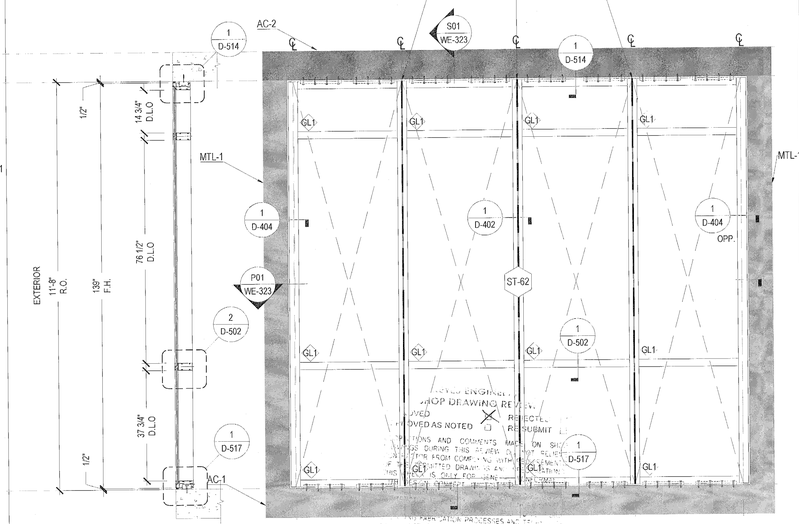
P01 WINDOW PLAN 1/2"= 1'-0"



S02 DOOR SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"

ST-61 WINDOW ELEVATION SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"



S01 WINDOW SECTION 1/2"= 1'-0"

ST-62 WINDOW ELEVATION SYSTEM: ES-7100 1/2"= 1'-0"

"REVIEWED and APPROVED FOR CODE COMPLIANCE"
NOVA ENGINEERING and ENVIRONMENTAL LLC
8-3-18 BY: EM

ZONE 5
LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-201

ZONE 5
LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-204

Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW: NO EXCEPTIONS NOTED
Dated 7/16/18 By R. G.

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-0207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, Fl. 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5159

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
CI51 B 80-58 OF. 501
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEENVELOPE.COM
C## 32168

REVIEWED FOR STRUCTURAL COMPLIANCE ONLY
MANUEL MENA
LICENSED
No 71643
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
MANUEL MENA, P.E.
FL. LIC. # 71643

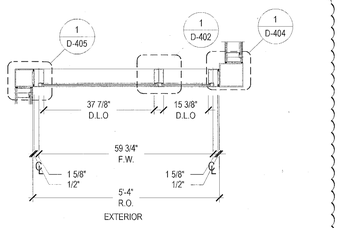
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
A1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
A2	01.15.2018	FIRST SUBMITTAL UPDATE
A3	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
A4	02.22.2018	RESUBMITTAL PER BULLETIN #1 2018. 04 - 10
A5	06.06.2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

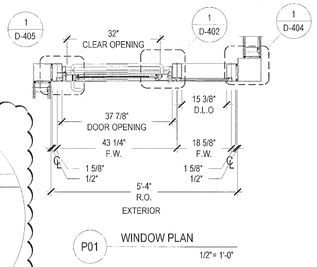
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-323

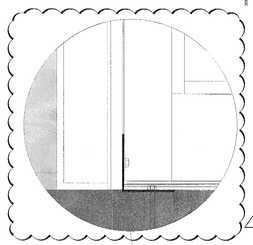
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



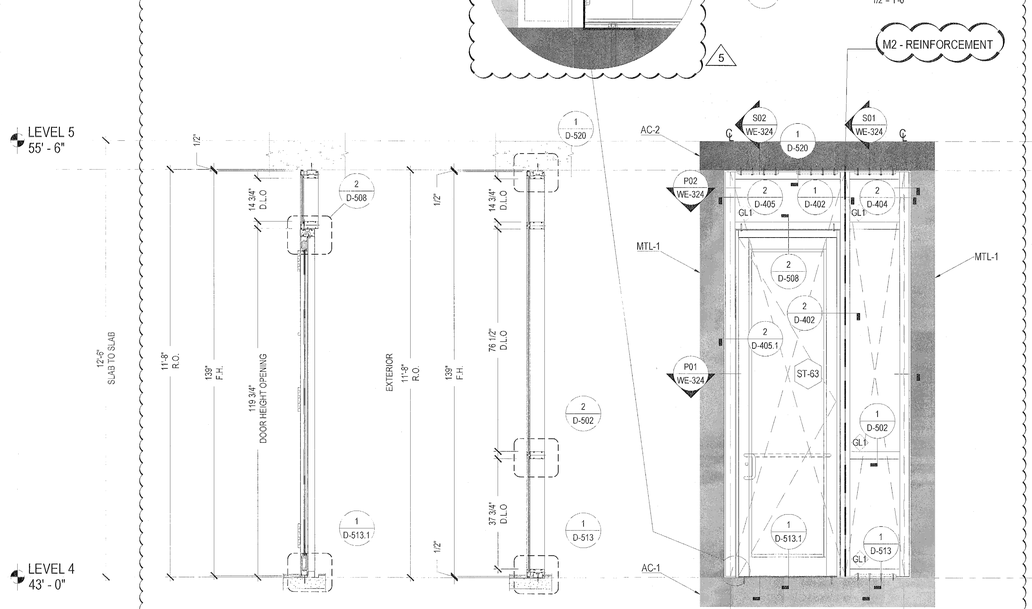
P01 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"



M2 - REINFORCEMENT



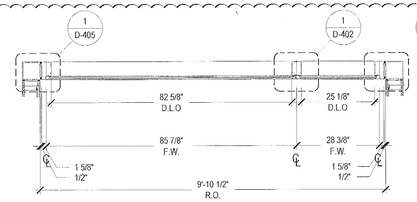
S02 DOOR SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"

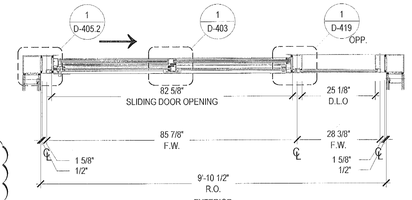
ST-63 WINDOW ELEVATION SYSTEM: ES-7100 1/2"= 1'-0"

LOADS: + 59.5 p.s.f. - 65.0 p.s.f.

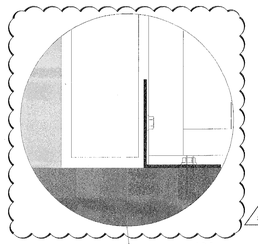
MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-204



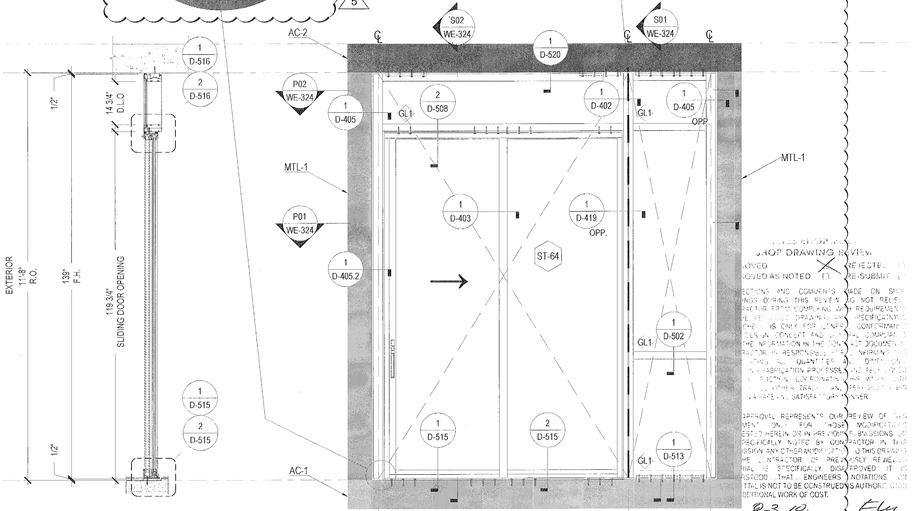
P02 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"



M2 - REINFORCEMENT



S02 WINDOW SECTION 1/2"= 1'-0"

ST-64 WINDOW ELEVATION SYSTEM: ES-7100 / ES-9100 1/2"= 1'-0"

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

LOADS: + 59.5 p.s.f. - 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-204

Stantec
Two South Biscayne Blvd., Suite 1070
Miami, Florida 33131
REVIEWED, NO EXCEPTIONS NOTED
Dated 7/12/18 By

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

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STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1070
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Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
2050 NW 49th street
Miami, Fl. 33142 EE.UU
Tel. 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 D 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEENVELOPE.COM
CA# 30165

REVIEWED FOR STRUCTURAL COMPLIANCE
MARVIN WAKEMAN P.E.
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MARVIN WAKEMAN P.E.
FL. Reg # 71643

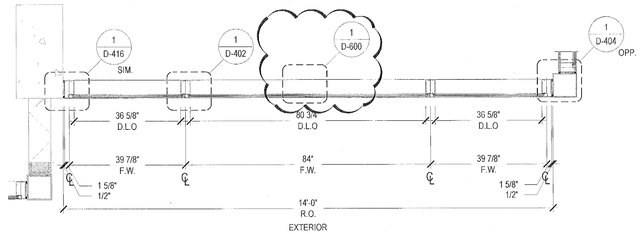
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	S-CP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01. 15. 2018	F.RST SUBMITTAL UPDATE
3	01. 17. 2018	S-CP DRAWINGS FIRST RESUBMITTAL
4	02. 22. 2018	RESUBMITTAL PER BULLETIN # 1 2018. 04. 10
5	06. 06. 2018	RESUBMITTAL PER FEEC COMMENTS 06/07/2018

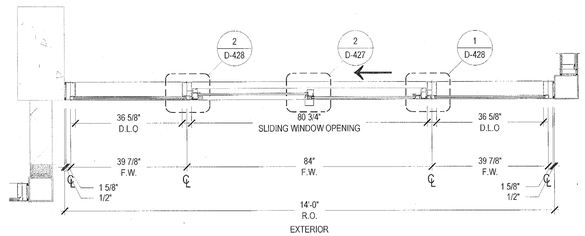
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-324

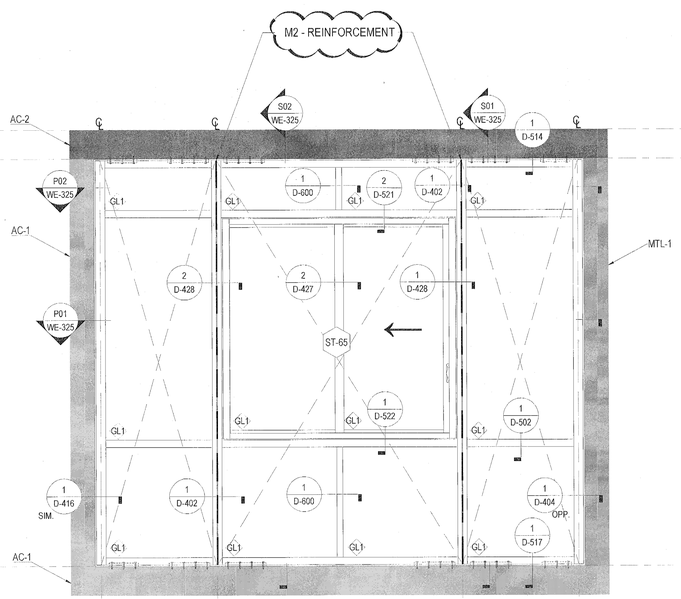
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



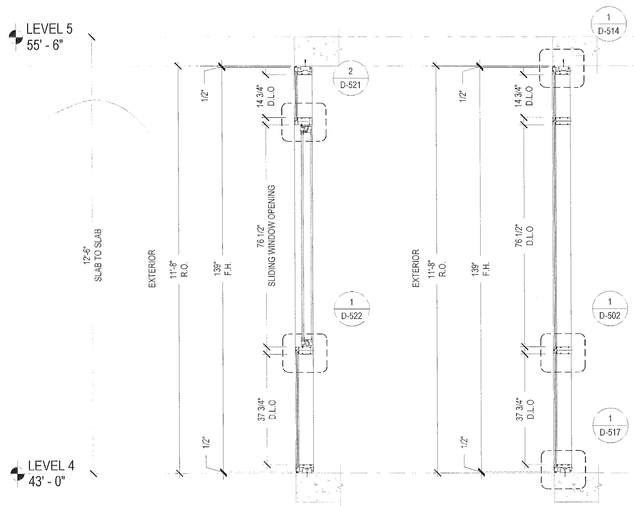
P02 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"



ST-65 WINDOW ELEVATION SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"

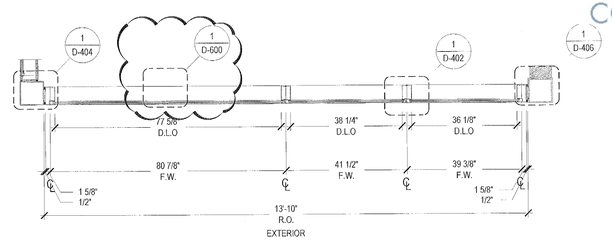


S02 WINDOW SECTION 1/2"= 1'-0"

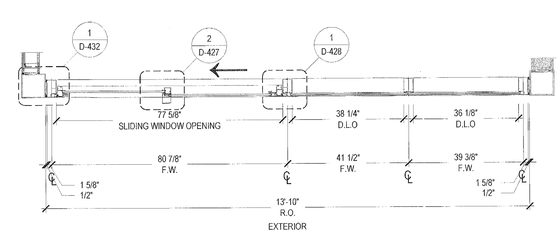
S01 WINDOW SECTION 1/2"= 1'-0"

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

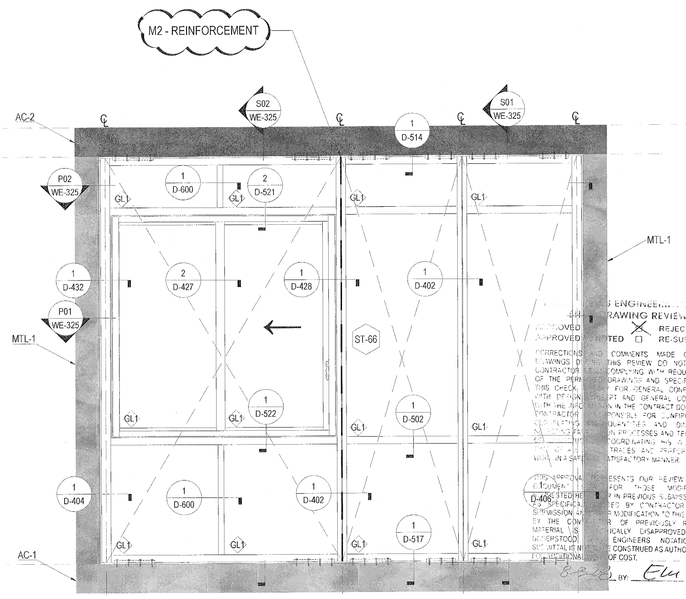
MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-204
LEVEL 5	1	BE-204



P02 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"



ST-66 WINDOW ELEVATION SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-204

Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/2/18 By R.G.

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
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STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
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Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142 EE.UU
Tel: 305-630-5151
Fax: 305-638-5156

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 # 80-59 Of. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADEENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE
MANUEL G. VIQUEIRA
LICENSE
No 71645
STATE OF FLORIDA
PROFESSIONAL ENGINEER
NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED ENGINEER

17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01. 15. 2018	FIRST SUBMITTAL UPDATE
3	01. 17. 2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05. 22. 2018	RESUBMITTAL PER BULLETIN # 1 2018. 04. 10
5	06. 08. 2018	RESUBMITTAL PER TEEC COMMENTS 06/7/2018 JJ

PROJECT #: SD2017009
17TH & WEST AVENUE

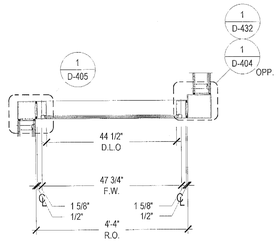
SCALE: 1/2" = 1'-0"

CONTENT:
WINDOWS WALL ELEVATION SYSTEM

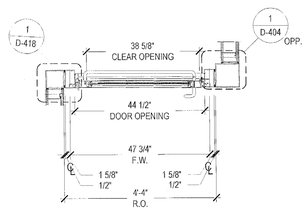
SHEET:
WE-325

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

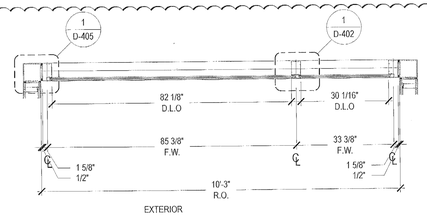
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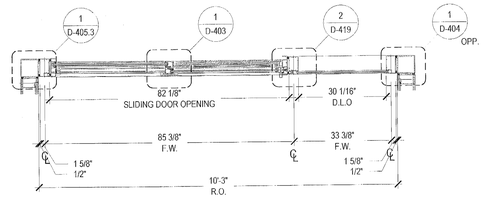
P02 WINDOW PLAN 1/2"= 1'-0"



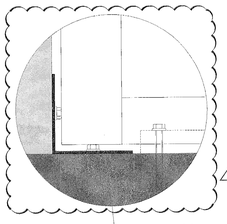
P01 WINDOW PLAN 1/2"= 1'-0"



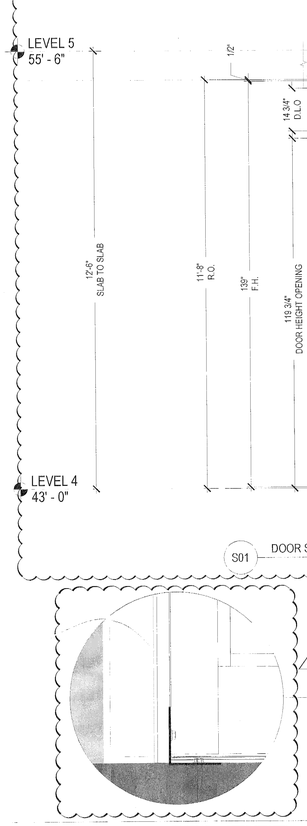
P02 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"



5



S01 DOOR SECTION 1/2"= 1'-0"

ST-67 WINDOW ELEVATION SYSTEM: ES-7100 1/2"= 1'-0"

S02 WINDOW SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"

ST-68 WINDOW ELEVATION SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	2	BE-204

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-204
LEVEL 5	1	BE-204

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
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Miami, FL 33131-1804
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GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

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gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, Fl. 33142 EE.UU
Tel. 305-638-5151
Fax. 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET. SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
C/# 30168

REVIEWED FOR
STRUCTURAL COMPLIANCE
THIS REVIEW IS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING ALL WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.
MANUEL NOGALES, P.E.
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ENGINEER'S SHOP DRAWING REVIEW
REVIEWED
APPROVED AS NOTED
CORRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. THIS REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING ALL WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.
THIS APPROVAL REPRESENTS OUR REVIEW OF THIS DOCUMENT ONLY FOR THOSE MODIFICATIONS REQUESTED HEREIN OR IN PREVIOUS SUBMISSIONS NOT SPECIFICALLY NOTED BY CONTRACTOR IN THIS OR SUBMISSIONS. ANY OTHER MODIFICATION TO THE LATEST BY THE CONTRACTOR OF PREVIOUSLY REVIEWED MATERIAL IS NOT SPECIFICALLY DISAPPROVED. IT IS UNDERSTOOD THAT ENGINEERS NOTATIONS ON SUBMITTAL IS NOT TO BE CONSTRUED AS AUTHORIZATION FOR ADDITIONAL WORK OF COST.
DATE: 8/3/18 BY: ELL

Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW. NO EXCEPTIONS NOTED
Dated 7/12/18 By N.G.

REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01.15.2018	FIRST SUBMITTAL UPDATE
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4	05.22.2018	RESUBMITTAL PER BULLETIN #1 2018. 04. 10
5	06.08.2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

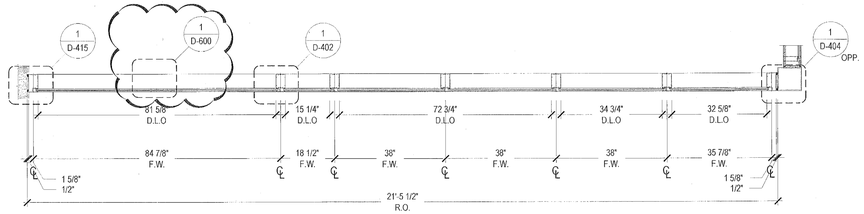
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

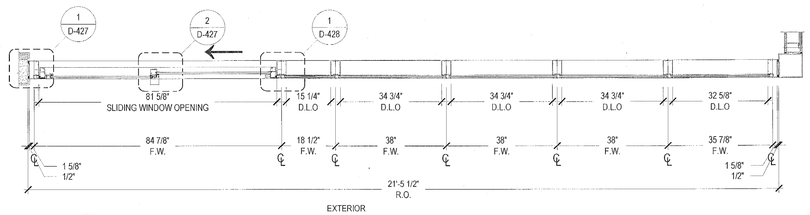
SHEET:
WE-326

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE

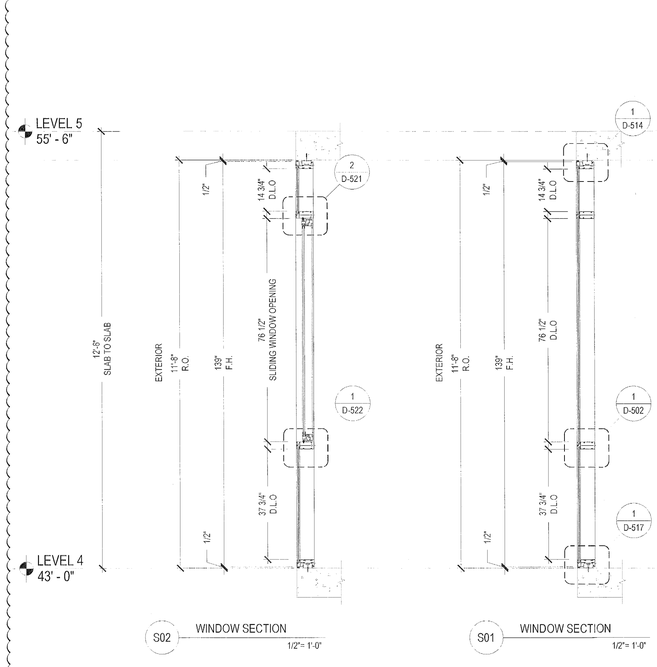
4



P02 WINDOW PLAN 1/2"= 1'-0"

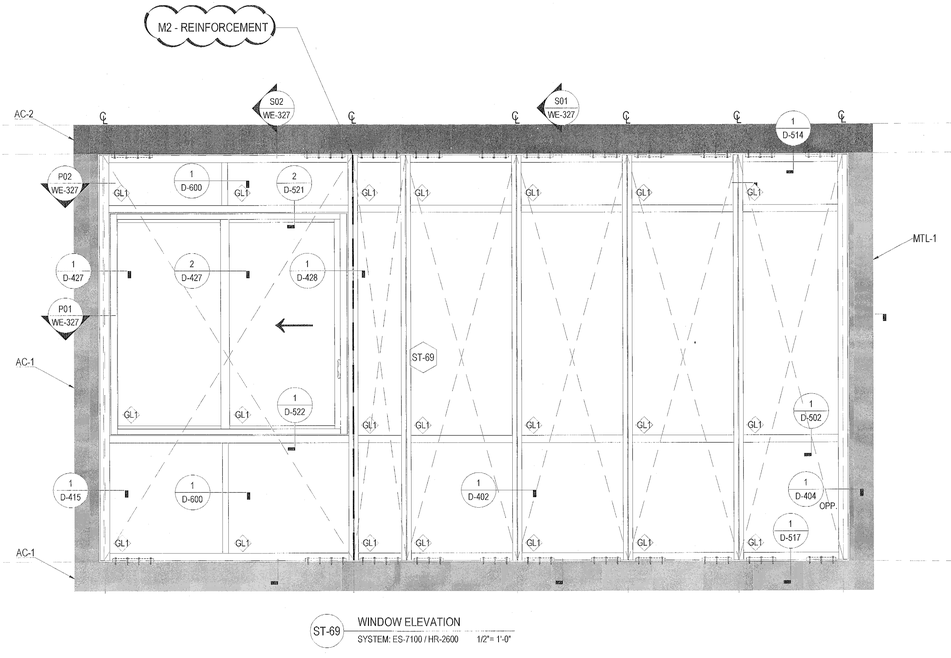


P01 WINDOW PLAN 1/2"= 1'-0"



S02 WINDOW SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"



ST-69 WINDOW ELEVATION SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 4	1	BE-204
LEVEL 5	1	BE-204

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

DIEGO REYES ENGINEERING, INC.
SHOP DRAWING REVIEW
APPROVED ☒ REJECTED ☐
APPROVED AS NOTED ☐ RE-SUBMIT ☐

CORRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN THEREON. FACT DIMENSIONS CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

THIS APPROVAL REPRESENTS OUR REVIEW OF THIS DOCUMENT ONLY FOR THOSE MODIFICATIONS REQUESTED HEREIN OR IN PREVIOUS SUBMISSIONS OR AS SPECIFICALLY NOTED BY CONTRACTOR IN THIS SUBMISSION. ANY OTHER MODIFICATION TO THIS DRAWING BY THE CONTRACTOR OR PREVIOUSLY REVIEWED MATERIAL IS SPECIFICALLY DISAPPROVED. IT IS UNDERSTOOD THAT ENGINEERS NOTATIONS ON SUBMITTAL IS NOT TO BE CONSTRUED AS AUTHORIZATION FOR ADDITIONAL WORK OF COST.

DATE 8-3-18 BY: [signature]

Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW NO EXCEPTIONS NOTED
Dated 7/12/18 By: [signature]

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-59 Of. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1900 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
CA# 30108

REVISED PER STRUCTURAL COMPLIANCE
MARIO L. GARCIA
LICENSED
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MARIO GARCIA, P.E.
FL. Reg # 71643

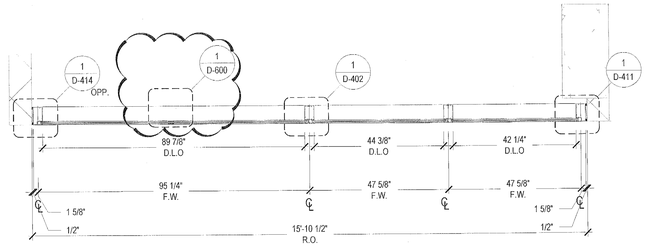
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12.15.2017	S=OP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01.15.2018	FIRST SUBMITTAL UPDATE
3	01.17.2018	S=OP DRAWINGS FIRST RESUBMITTAL
4	02.22.2018	RESUBMITTAL PER BULLETIN #1 2018. 04. 10
5	06.06.2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

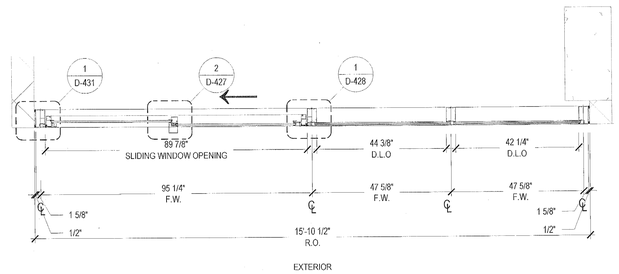
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-327

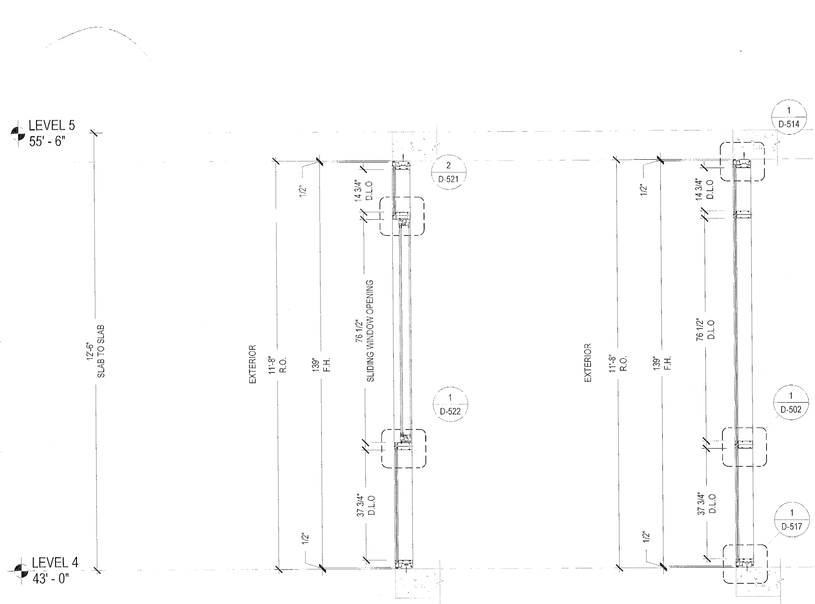
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



P02 WINDOW PLAN 1/2"= 1'-0"

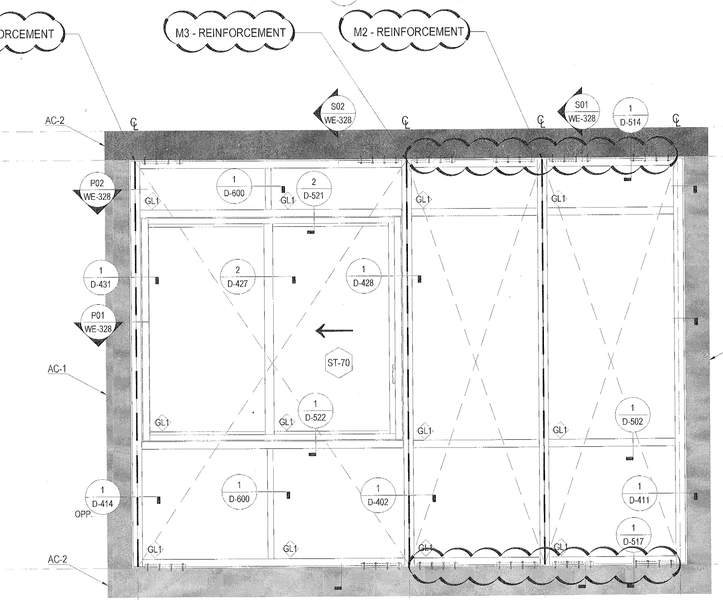


P01 WINDOW PLAN 1/2"= 1'-0"



S02 WINDOW SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"



ST-70 WINDOW ELEVATION
SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"

LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 5	1	BE-205

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

SHOP DRAWING REVIEW
APPROVED
APPROVED AS NOTED
REJECTED
RE-SUBMIT
CORRECTIONS AND COMMENTS MADE ON SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLYING WITH REQUIREMENTS OF THE PERMITTED DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION IN THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF HIS WORK WITH ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.
APPROVAL REPRESENTS OUR REVIEW OF THE DOCUMENT ONLY FOR THOSE MODIFICATIONS REQUESTED HEREIN OR IN PREVIOUS SUBMISSIONS SPECIFICALLY NOTED BY CONTRACTOR IN RESUBMISSION. ANY OTHER MODIFICATION TO THE DRAWINGS BY THE CONTRACTOR OR PREVIOUSLY REVIEWED MATERIAL IS SPECIFICALLY DISAPPROVED. IT IS UNDERSTOOD THAT ENGINEERS NOTATIONS ON INITIALS IS NOT TO BE CONSTRUED AS AUTHORIZATION OF ADDITIONAL WORK OR COST.
8-3-18 BY: EM

Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/12/18 By R.G.

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
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Stantec
STANTEC ARCHITECTURE INC.
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Miami, FL 33131-1804
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GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-620-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, Fl. 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
CA# 30169

REVIEWED FOR STRUCTURAL COMPLIANCE
MANUEL VIEITO
LICENSED
No 71643
STATE OF
FLORIDA
MANUEL VIEITO, P.E.
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED ENGINEER

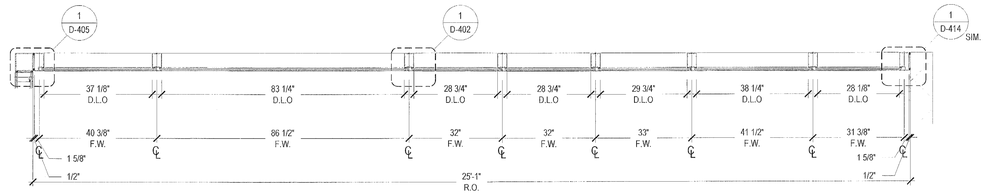
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01.15.2018	FIRST SUBMITTAL UPDATE
3	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05.22.2018	RESUBMITTAL PER BULLETIN # 2018_04_10
5	06.28.2018	RESUBMITTAL PER FEEC COMMENTS 06072018.JJ

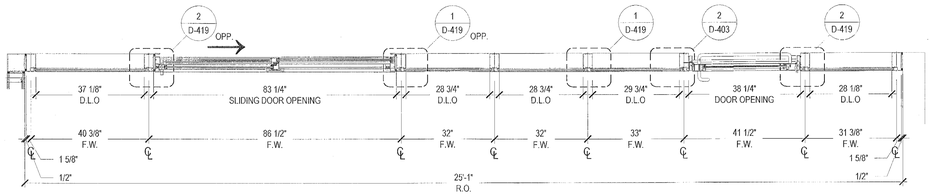
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-328

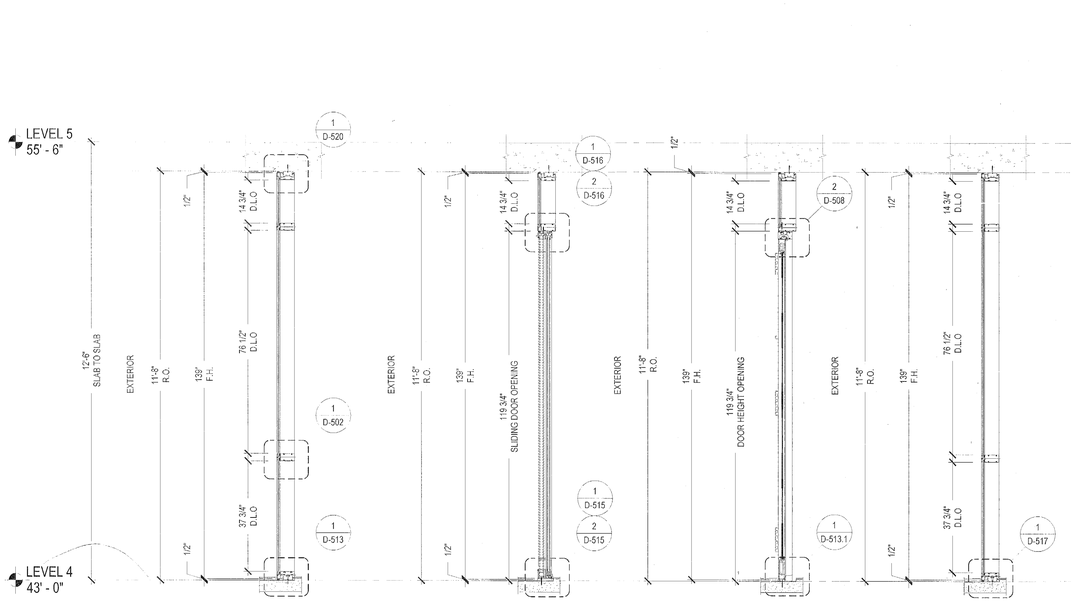
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



P02 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"



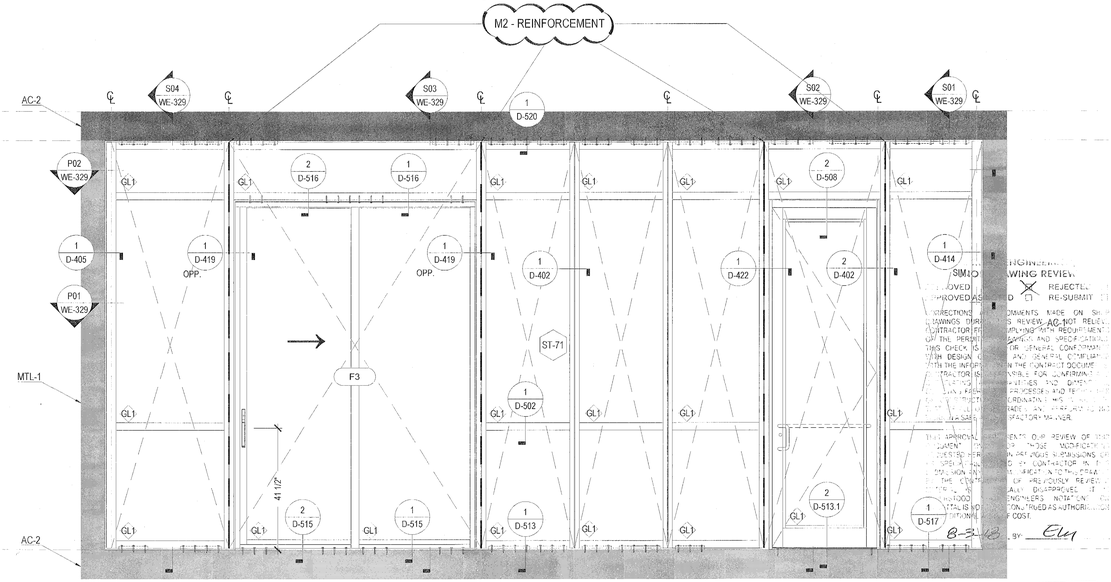
S043 WINDOW SECTION 1/2"= 1'-0"

S03 WINDOW SECTION 1/2"= 1'-0"

S02 DOOR SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"

M2 - REINFORCEMENT



ST-71 WINDOW ELEVATION
SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

Stantec
Two South Biscayne Blvd. Suite 1670
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/10/18 By R.G.

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 5	1	BE-205

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-6007

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 Of. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
CA# 30169

REVIEWED FOR STRUCTURAL CODE COMPLIANCE
MANUEL GUILLEN, P.E.
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUEL GUILLEN, P.E.
FL Reg # 71643

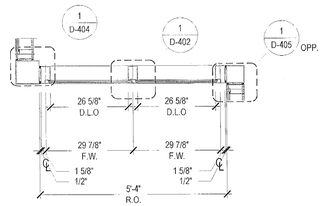
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01.15.2018	FIRST SUBMITTAL UPDATE
3	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05.22.2018	RESUBMITTAL PER BULLETIN #1 2018_04_10
5	06.03.2018	RESUBMITTAL PER FEEC COMMENTS 060720 18 JJ

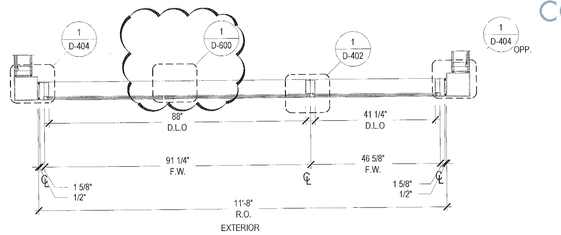
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-329

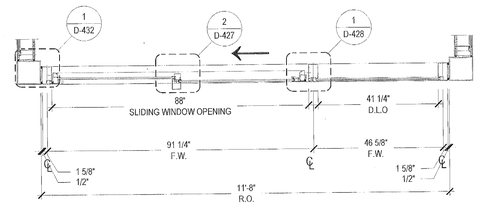
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



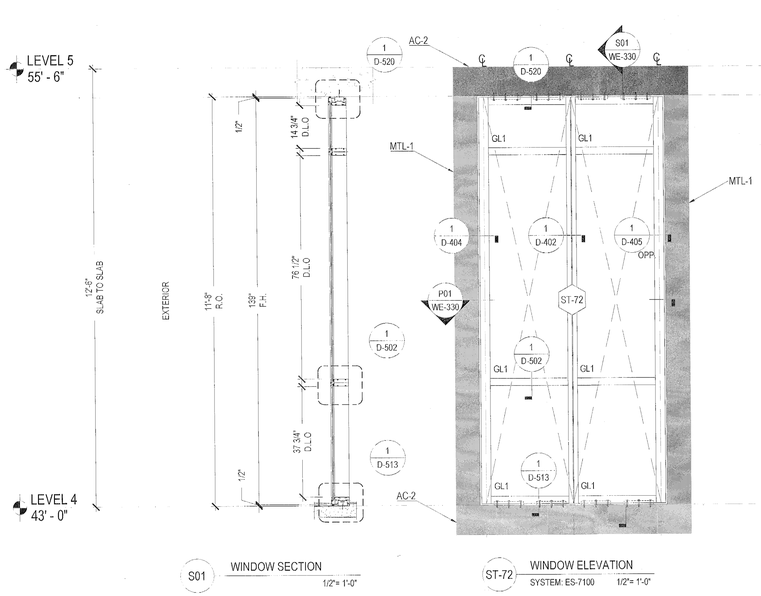
P01 WINDOW PLAN 1/2"= 1'-0"



P02 WINDOW PLAN 1/2"= 1'-0"

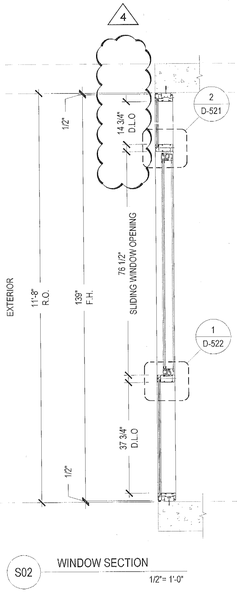


P01 WINDOW PLAN 1/2"= 1'-0"

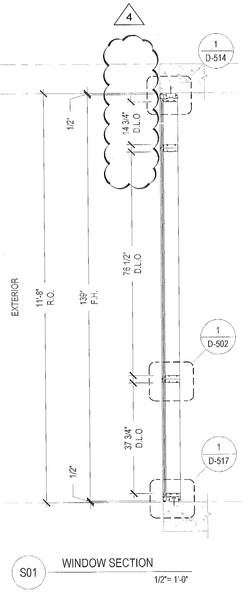


S01 WINDOW SECTION 1/2"= 1'-0"

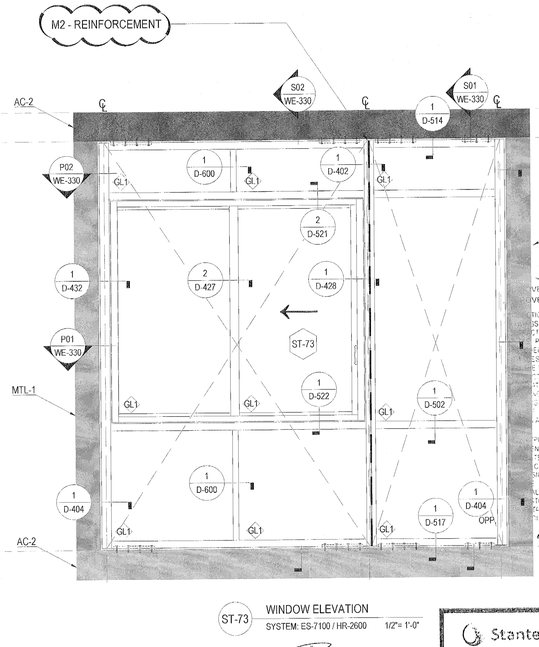
ST-72 WINDOW ELEVATION SYSTEM: ES-7100 1/2"= 1'-0"



S02 WINDOW SECTION 1/2"= 1'-0"



S01 WINDOW SECTION 1/2"= 1'-0"



ST-73 WINDOW ELEVATION SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 5	2	BE-205

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 5	1	BE-205

Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/12/18 By R.G.

1601 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1070
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142 EE.UU
Tel: 305-638-5191
Fax. 305-638-5155

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FACADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
C/A# 30158

REVIEWED FOR STRUCTURAL COMPLIANCE ONLY BY: MIAMI-DADE COUNTY
LICENSED
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Miguel Valdes, P.E.
FL Reg # 71643

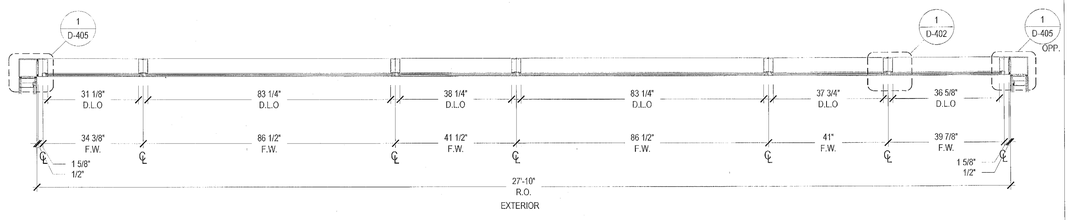
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01. 15. 2018	FIRST SUBMITTAL UPDATE
3	01. 17. 2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05. 22. 2018	RESUBMITTAL PER BULLETIN #1 2018. 04. 10
5	06. 06. 2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

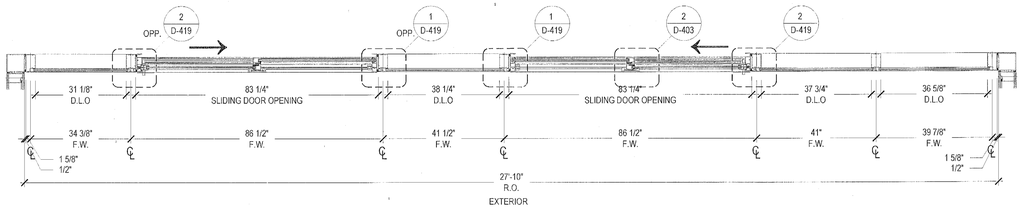
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-330

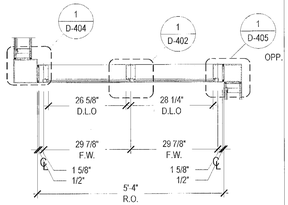
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



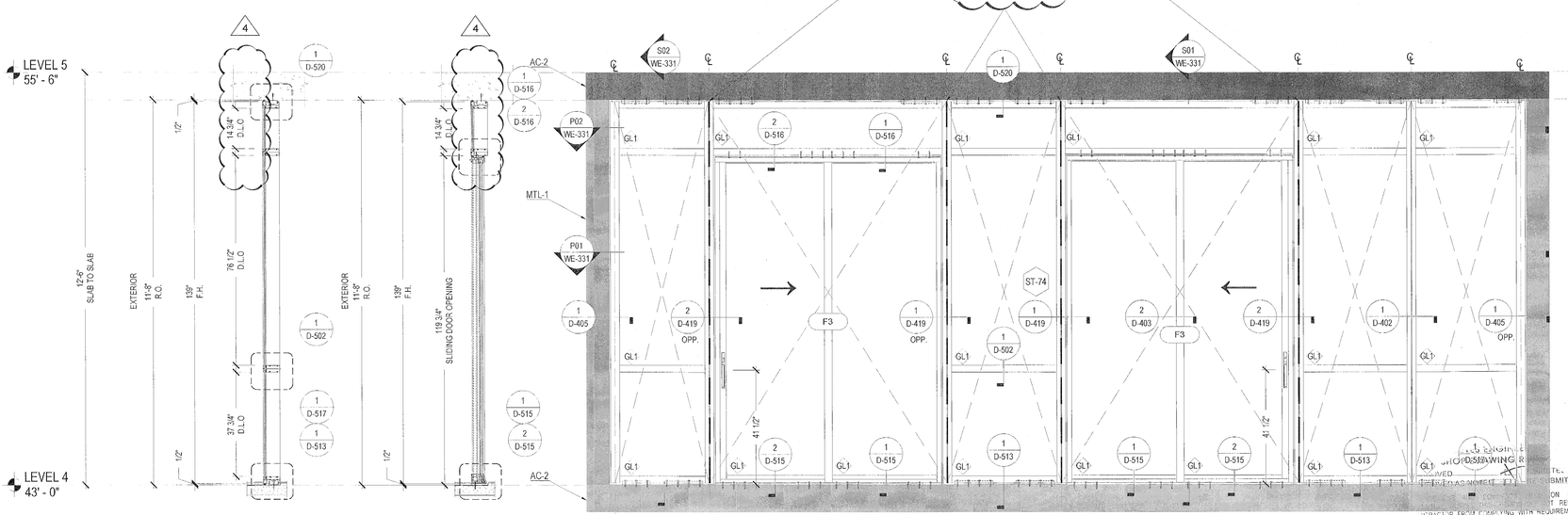
P02 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"



S02 WINDOW SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"

ST-74 WINDOW ELEVATION SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"

ST-75 WINDOW ELEVATION SYSTEM: ES-7100 1/2"= 1'-0"

Two South Biscayne Blvd. Suite 1670
Miami, Florida 33131

REVIEW, NO EXCEPTIONS NOTED

Dated 7/12/18 By R.G.

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 5	1	BE-205

8-3-18 BY: GM

ZONE 5

LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 5	4	BE-205

1691 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8207

ARCHITECT:
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STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3950 NW 49th street
Miami, Fl. 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 568-1729
WWW.FACADEENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE
MANUEL MORALES, P.E.
FL. Reg. # 71643

STATE OF FLORIDA
No 71643
MANUEL MORALES
PROFESSIONAL ENGINEER

REVIEWED and APPROVED FOR CODE COMPLIANCE

NOVA ENGINEERING and ENVIRONMENTAL, LLC

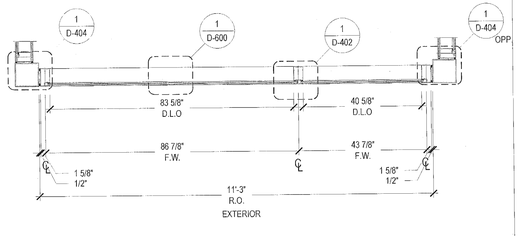
REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS SUBMITTAL
2	01.15.2018	FIRST SUBMITTAL
3	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05.22.2018	RESUBMITTAL PER BULLETIN # 2
5	06.08.2018	RESUBMITTAL PER FEEC COMMENTS

17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

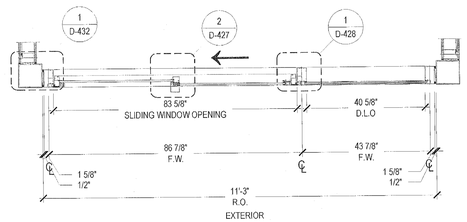
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-331

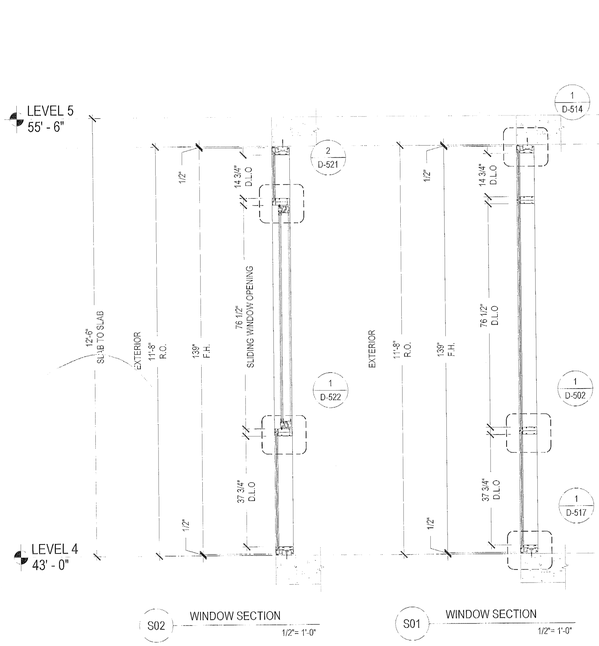
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



P02 WINDOW PLAN 1/2"= 1'-0"

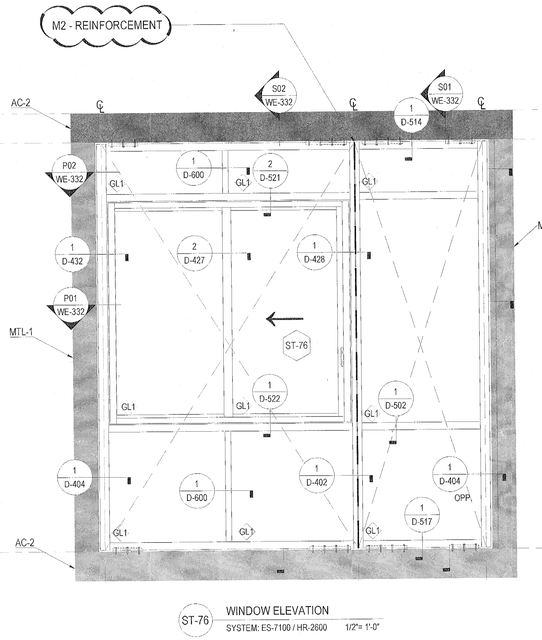


P01 WINDOW PLAN 1/2"= 1'-0"



S02 WINDOW SECTION 1/2"= 1'-0"

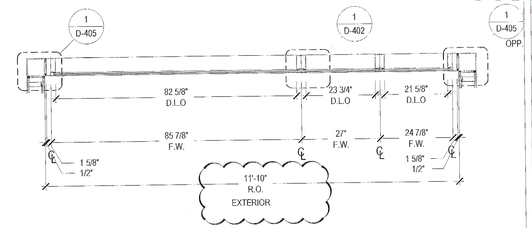
S01 WINDOW SECTION 1/2"= 1'-0"



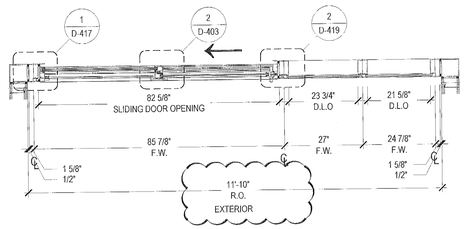
ST-76 WINDOW ELEVATION
SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

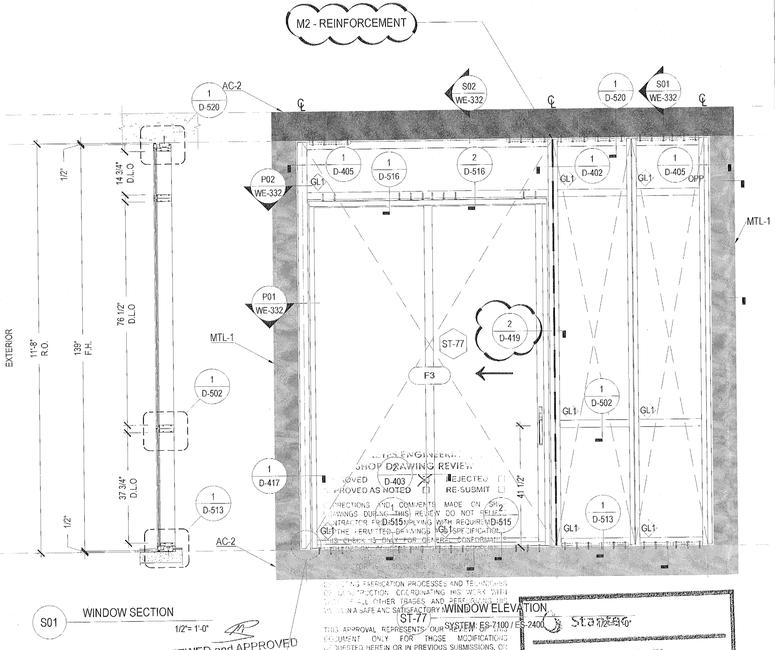
MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 5	1	BE-205



P02 WINDOW PLAN 1/2"= 1'-0"



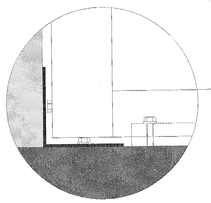
P01 WINDOW PLAN 1/2"= 1'-0"



S02 WINDOW SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"

ST-77 WINDOW ELEVATION
SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"



LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 5	1	BE-205

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL, LLC

...ENGINEER... SHOP DRAWING REVIEW... APPROVED ☐ REJECTED ☐ ...PROVED AS NOTED ☐ RE-SUBMIT ☐ ...RECTIONS AND COMMENTS MADE ON SHOP ...WINGS DURING THIS REVIEW DO NOT RELIEV... ...NTRACTOR FROM COMPLYING WITH REQUIRED ...G THE PERTINENT DRAWINGS AND SPECIFICATION... ...THIS CHECK IS ONLY FOR GENERAL CONFORMA... ...DRAWINGS. FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION (INCLUDING SAFETY PRECAUTIONS AND PROGRAMS) ARE THE RESPONSIBILITY OF THE CONTRACTOR. REVIEW SHALL NOT INDICATE APPROVAL OF ASSEMBLY DETAILS, OR ANY OTHER ITEMS APPEARING ON SHOP DRAWINGS THAT ARE NOT CLEARLY AND SPECIFICALLY NOTED AS BEING REVIEWED. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT THE REVIEWER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING ALL THE WORK WITH THAT OF ALL OTHER TRADES AND FOR PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

Stantec

THIS APPROVAL REPRESENTS OUR REVIEW OF THIS DOCUMENT ONLY FOR THOSE MODIFICATIONS SUBMITTED HEREIN OR IN PREVIOUS SUBMISSIONS, OTHERWISE AS SPECIFICALLY NOTED BY CONTRACTOR IN THIS SUBMISSION. ANY OTHER MODIFICATION TO THIS DRAWING BY THE CONTRACTOR, OF PREVIOUSLY REVIEWED MATERIAL IS SPECIFICALLY DISAPPROVED. IT IS UNDERSTOOD THAT ENGINEERS NOTATIONS ON SHOP DRAWINGS IS NOT TO BE CONSTRUED AS AUTHORIZATION OF ADDITIONAL WORK OF COST.

Stantec
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131
☐ REVIEW NO EXCEPTIONS NOTED

Dated: 7/16/18 By:

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8307

ARCHITECT:
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STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
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GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
CA# 30169

REVIEWED FOR STRUCTURAL IMPORTANCE
MANUEL MORALES
LICENSE
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER

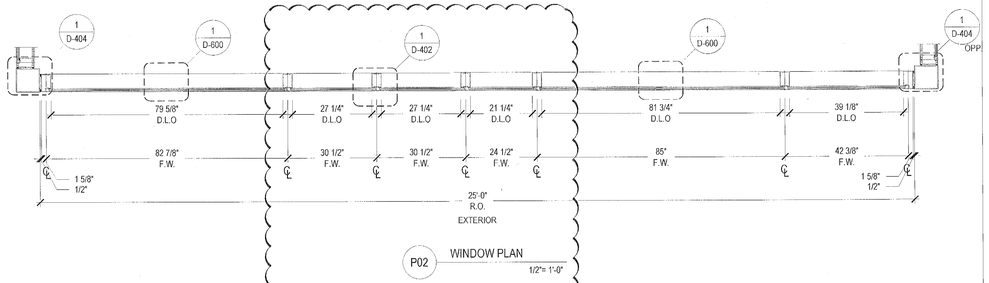
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12. 15. 2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01. 15. 2018	FIRST SUBMITTAL UPDATE
3	01. 17. 2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	03. 22. 2018	RESUBMITTAL PER BULLETIN #1 2018_04_10
5	06. 08. 2018	RESUBMITTAL PER FSEC COMMENTS 06072018.IJ

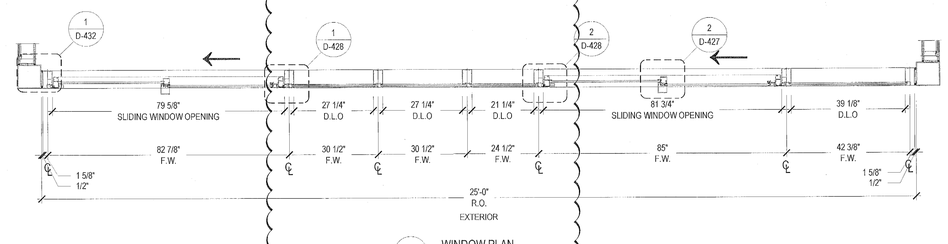
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-332

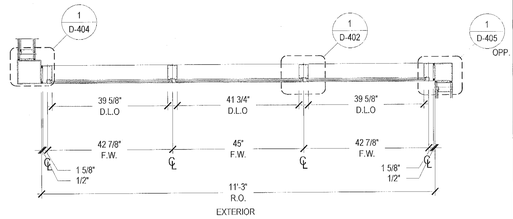
MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



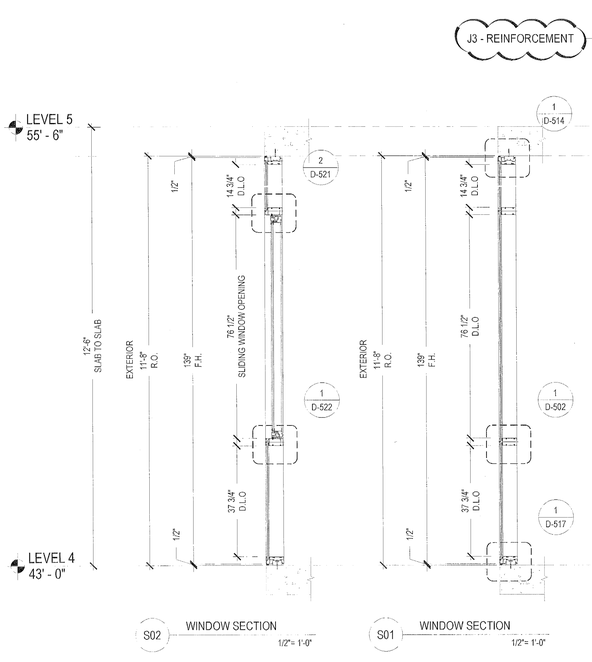
P02 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"

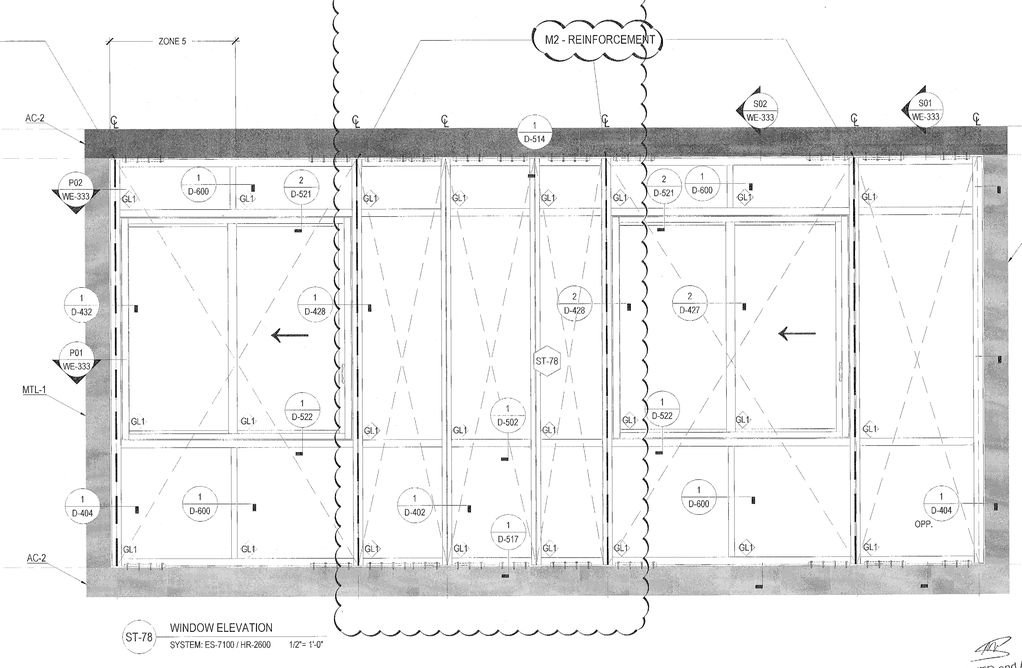


P01 WINDOW PLAN 1/2"= 1'-0"

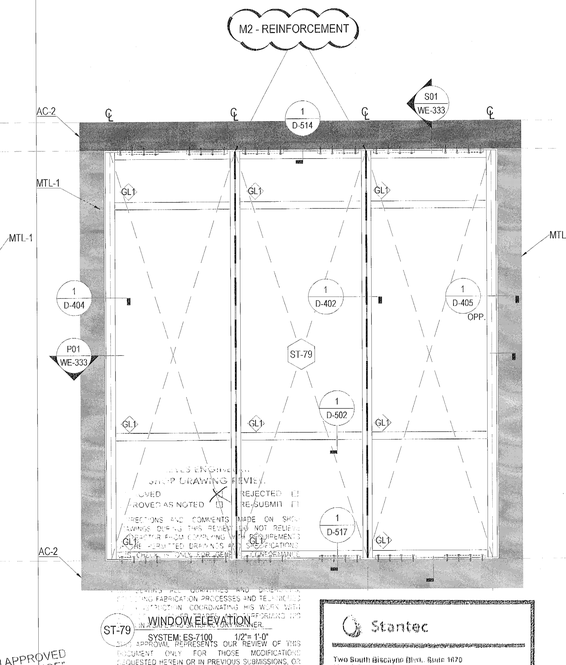


S02 WINDOW SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"



ST-78 WINDOW ELEVATION
SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"



ST-79 WINDOW ELEVATION
SYSTEM: ES-7100 1/2"= 1'-0"

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL, LLC

ZONE 5

LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 5	1	BE-205

LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

MARK COUNT		
LEVEL	QTY	FACADE
LEVEL 5	1	BE-205

Stantec
Two South Biscayne Blvd. Suite 1670
Miami, Florida 33131
REVIEW, NO EXCEPTIONS NOTED
Dated 7/12/18 By R. G.

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-6207

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 33142 EE.UU
Tel. 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 B 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1720
WWW.FACADENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL PERFORMANCE
MANUEL GARCIA
LICENSE
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MANUFACTURER'S RESPONSIBILITY
PERFORMANCE

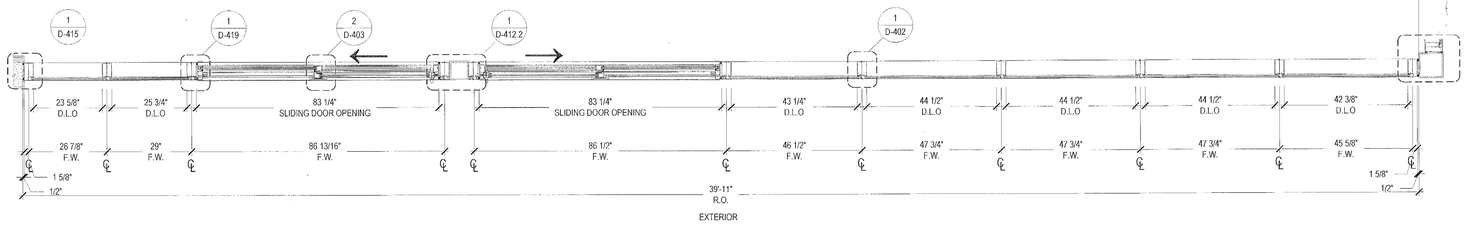
17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVEL 4 TO LEVEL 5
2	01.15.2018	FIRST SUBMITTAL UPDATE
3	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	04.22.2018	RESUBMITTAL PER BULLETIN #1 2018. 04. 10
5	06.08.2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JJ

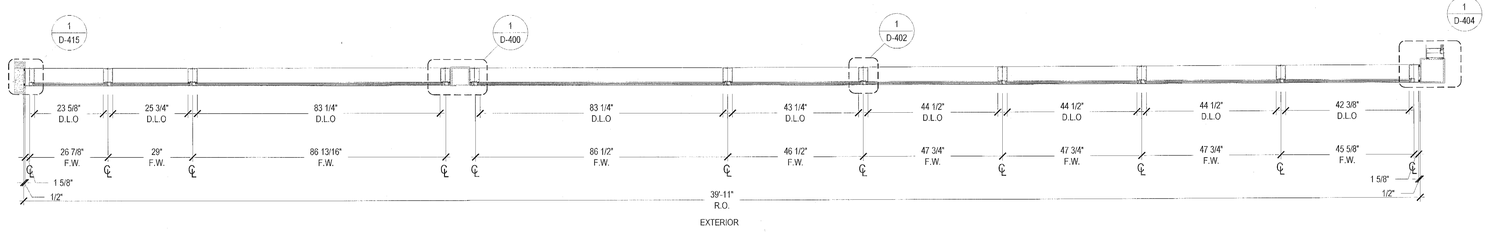
PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS WALL ELEVATION SYSTEM

SHEET:
WE-333

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



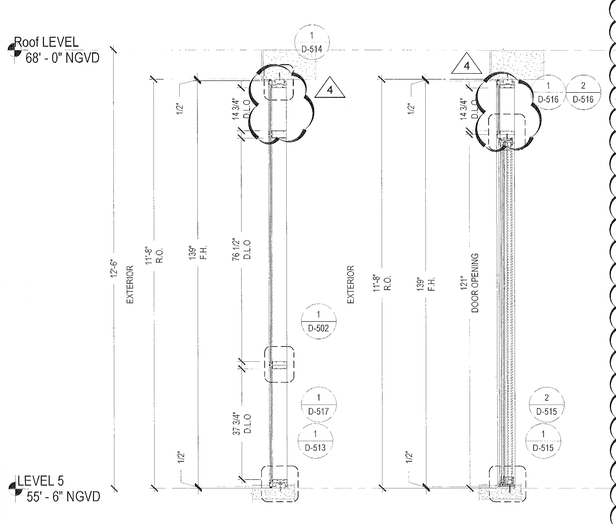
P02 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"

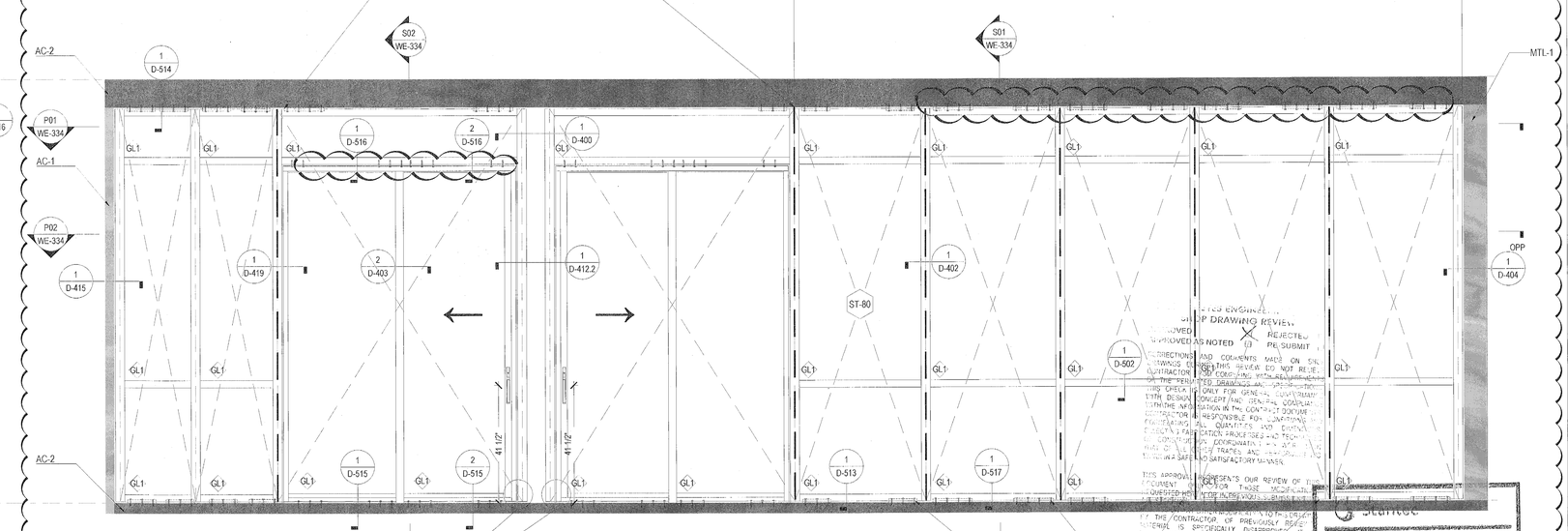
4

M2 - REINFORCEMENT



S01 WINDOW SECTION 1/2"= 1'-0"

S02 WINDOW SECTION 1/2"= 1'-0"



ST-80 WINDOW ELEVATION
SYSTEM: ES-7100 / ES-2400 1/2"= 1'-0"

M2 - REINFORCEMENT

ZONE 5

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

ZONE 5

LOADS: + 64.8 p.s.f.
- 86.8 p.s.f.

"REVIEWED and APPROVED FOR CODE COMPLIANCE"

NOVA ENGINEERING and ENVIRONMENTAL LLC

MARK COUNT		
LEVELL	QTY	FACADE
LEVEL 5	1	BE-200

- ...ES ENGINEE...
- ...P DRAWING REVIEW...
- ...OVED
- REJECTED
- ...OVED AS NOTED
- RE-SUBMIT

...DIRECTIONS AND COMMENTS MADE ON SH... ...DRAWINGS DURING THIS REVIEW DO NOT RELIE... ...OF COMPLYING WITH REQUIREMENTS OF THE PERTINENT DRAWINGS AND SPECIFI... THIS CHECK IS ONLY FOR GENERAL CONFORMA... WITH DESIGN CONCEPT AND GENERAL COORDINA... ...WITH THE INFORMATION IN THE CONTRACT DOCUME... CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ... VERIFYING ALL QUANTITIES AND DIMENSIONS; ... ...SITE'S FABRICATION PROCESSES AND TECHNI... ...COORDINATION WITH ALL TRADES AND ... ...MAINTAIN A SAFE JOB SITE. NO SATISFACTORY WORK ...

THIS APPROVAL REPRESENTS OUR REVIEW OF THE ... DOCUMENT AND DOES NOT RELIEVE THE CONTRACTOR FROM ... ...FOR THOSE MODIFICATIONS ... ...IN THE REVIEWED SUBMITTAL. ... ...TO THIS DRAWING BY THE CONTRACTOR OF PREVIOUSLY REVIEWED MATERIAL IS SPECIFICALLY DISAPPROVED. IT IS UNDERSTOOD THAT ENGINEERS NOTATIONS ON SUBMITTAL IS NOT TO BE CONSTRUED AS AUTHORIZING ADDITIONAL WORK OF COST.

8-3-18 BY: ECU

...SERVICE
Two South Biscayne Blvd., Suite 1670
Miami, Florida 33131

REVIEW: NO EXCEPTIONS NOTED

Dated 7/12/18 By: R.G.

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
T: (305) 914-8007

ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
One Biscayne Tower Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131-1804
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Riverswood RD Suite 325
Dania Beach, FL 33312
954-620-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3500 NW 45th street
Miami, FL 33142 EE.UU
Tel: 305-638-5151
Fax: 305-638-5158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
CR5 B 80-58-OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1720
WWW.FACADEENVELOPE.COM
CA# 30168

REVIEWED FOR STRUCTURAL COMPLIANCE
MARIA BELEN ALVAREZ LICENSE No 71647 STATE OF FLORIDA PROFESSIONAL ENGINEER
Registered

REVISION N°	DATE	DESCRIPTION
1	12.15.2017	SHOP DRAWINGS FIRST SUBMITTAL LEVELL 4 TO LEVEL 5
2	01.15.2018	FIRST SUBMITTAL UPDATE
3	01.17.2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05.22.2018	RESUBMITTAL PER BULLETIN # 1 2018.04.10
5	06.08.2018	RESUBMITTAL PER FECC COMMENTS 060218 AJ

17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

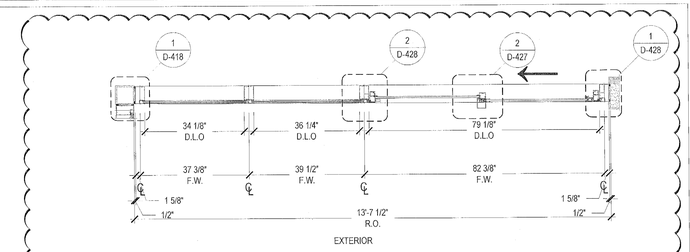
PROJECT #: SD2017009
17TH & WEST AVENUE

SCALE: 1/2" = 1'-0"

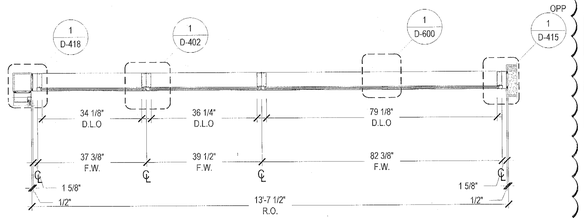
CONTENT:
WINDOWS ELEVATION SYSTEM

SHEET:
WE-334

MIAMIBEACH
REVIEWED FOR
CODE COMPLIANCE



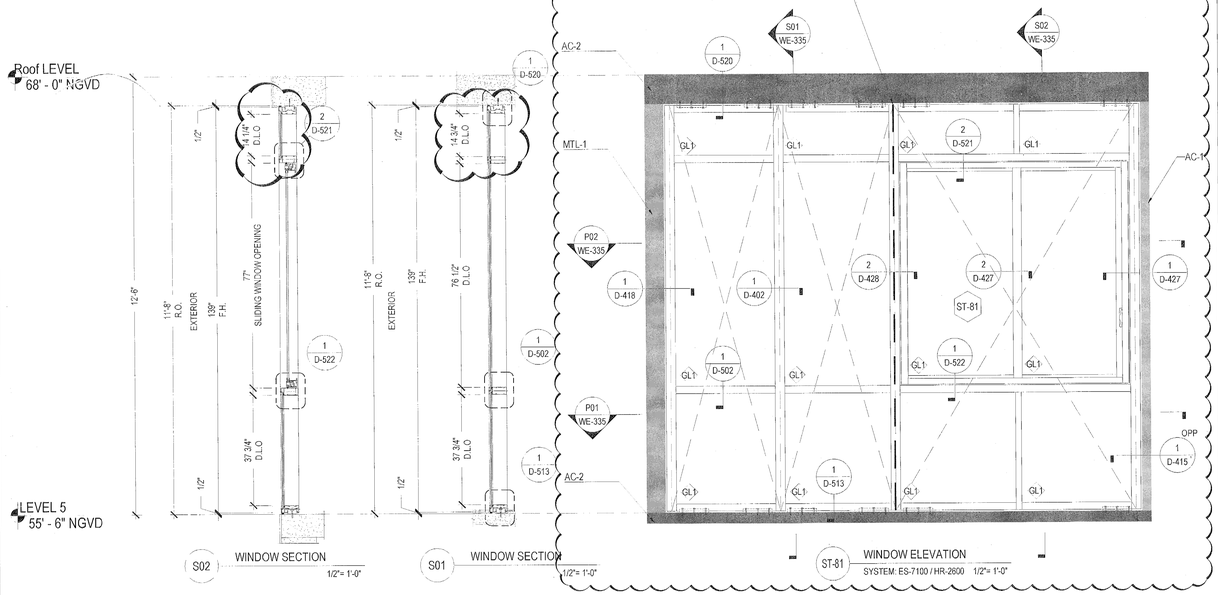
P02 WINDOW PLAN 1/2"= 1'-0"



P01 WINDOW PLAN 1/2"= 1'-0"

4

M2 - REINFORCEMENT



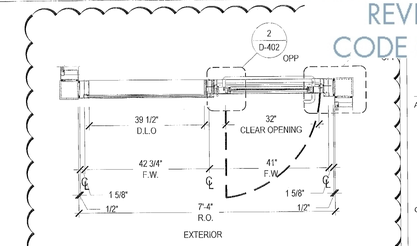
S02 WINDOW SECTION 1/2"= 1'-0"

S01 WINDOW SECTION 1/2"= 1'-0"

ST-81 WINDOW ELEVATION SYSTEM: ES-7100 / HR-2600 1/2"= 1'-0"

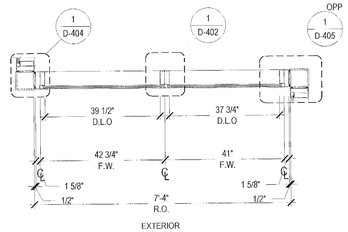
LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

MARK COUNT		
LEVELL	QTY	FACADE
LEVEL 5	1	BE-200



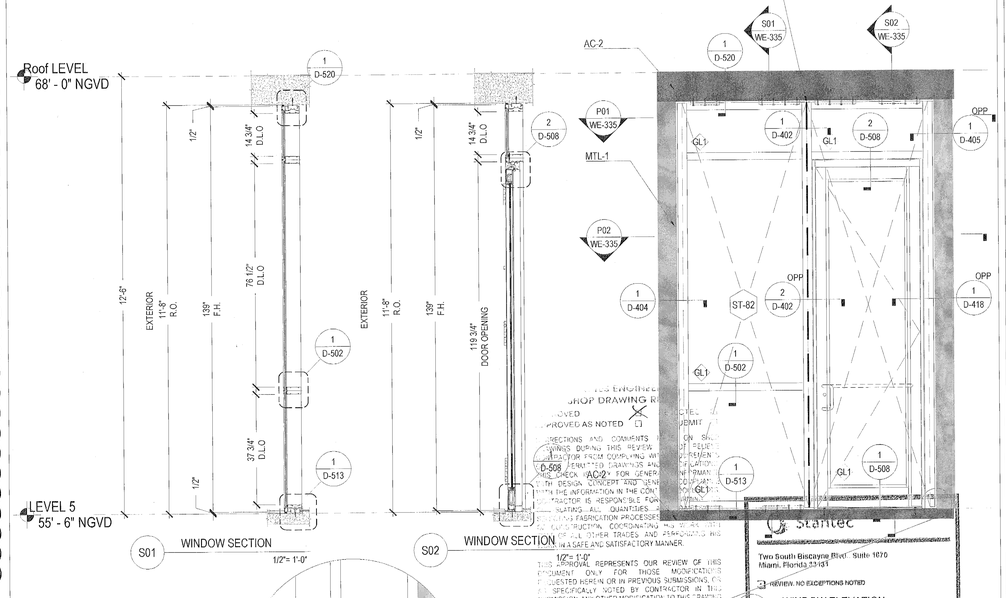
P02 WINDOW PLAN 1/2"= 1'-0"

4



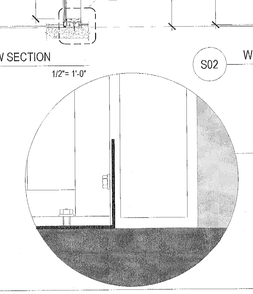
P01 WINDOW PLAN 1/2"= 1'-0"

M2 - REINFORCEMENT



S01 WINDOW SECTION 1/2"= 1'-0"

S02 WINDOW SECTION 1/2"= 1'-0"



ST-82

LOADS: + 59.5 p.s.f.
- 65.0 p.s.f.

"REVIEWED and APPROVED
FOR CODE COMPLIANCE"

MARK COUNT		
LEVELL	QTY	FACADE
LEVEL 5	1	BE-200

1681 WEST VENTURES LLC.
19501 Biscayne Boulevard, Suite 400
Aventura, FL 33180
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ARCHITECT:
Stantec
STANTEC ARCHITECTURE INC.
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2 South Biscayne Boulevard
Miami, FL 33131-1904
T: (305) 482-8700 Fax: (305) 482-8770

GENERAL CONTRACTOR:
GRYCON
Building with Precision
GRYCON LLC
4101 Ravenswood RD Suite 325
Dania Beach, FL 33312
954-626-0451

WINDOW MANUFACTURER:
gmp
GM&P Consulting and Glazing Contractors,Inc
3550 NW 49th street
Miami, FL 331-42 ESTADOS UNIDOS
Tel: 305-638-5151
Fax: 305-638-0158

SHOP DRAWINGS BY:
4G ARCHITECTURE
4G ARCHITECTURE S.A.S.
Cr51 # 80-58 OF. 901
Smart Office Center
Barranquilla, Colombia

FAÇADE+ENVELOPE
ENGINEERING CONSULTANTS, LLC
1930 HARRISON STREET, SUITE 204
HOLLYWOOD, FL 33020 (954) 589-1729
WWW.FACADENVELOPE.COM
CA# 30166

REVIEWED FOR STRUCTURAL COMPLIANCE
MANOUCHEHR NAVAI
LICENSE
No 71643
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7/24/2018
NOT VALID WITHOUT SIGNATURE AND ORIGINAL RAISED SEAL

17TH & WEST AVENUE
1220 17TH STREET
MIAMI BEACH, FLORIDA 33139

REVISION N°	DATE	DESCRIPTION
1	12_15_2017	SHOP DRAWINGS FIRST SUBMITTAL LEVELL 4 TO LEVEL 5
2	01_15_2018	FIRST SUBMITTAL UPDATE
3	01_17_2018	SHOP DRAWINGS FIRST RESUBMITTAL
4	05_22_2018	RESUBMITTAL PER BULLETIN # 1 2018.04.10
5	06_06_2018	RESUBMITTAL PER FEEC COMMENTS 06072018 JU

PROJECT #: SD2017009
17TH & WEST AVENUE
SCALE: 1/2" = 1'-0"
CONTENT:
WINDOWS ELEVATION SYSTEM

SHEET:
WE-335

NOVA ENGINEERING
and ENVIRONMENTAL LLC