

B

Owner MORTIMER KRINZMAN

Permit No. 44237

Cost \$22,000

Lot 3 Block 6

Subdivision BISCAYNE POINT

Address 1855 CLEVELAND ROAD

General Contractor Milton Mitchell

24190

Bond No. 5769

Architect R. M. Nordin

Engineer

3203-01-0970

Zoning Regulations:

Use RC

Area 10

Lot Size 75 x 150

Building Size:

Front 65

Depth 68

Height 16

Stories 1

Certificate of Occupancy No. 2646 April 26, 1955

Use HOUSE & GARAGE: Three Bedrooms, Three Baths

Type of Construction #3 CBS

Foundation Spread Footing 12x24

Roof

Tile

Date April 7, 1954

PLUMBING Contractor #36117 Watts Plumbing Co:

Sewer Connection

Date June 4, 1954

Temporary Water Closet 1

Water Closets 3

Swimming Pool Traps

Down Spouts

Lavatories 3

Steam or Hot Water Boilers

Wells

Bath Tubs 1

ROUGH APPROVAL OK, Cox 6-11-54

Showers 2

FINAL APPROVAL OK, Rothman 12-23-54

Urinals

Sinks 1

GAS Contractor

Date

Dish Washing Machine 1

Gas Ranges 1

Gas Frylators

Laundry Trays

Gas Water Heaters 1 electric

Gas Pressing Machine

Laundry Washing Machines

Gas Space Heaters 3

Gas Vents for Stove

Drinking Fountains

Gas Refrigerators

Floor Drains

Gas Steam Tables

Grease Traps

Gas Broilers

GAS Rough APPROVAL OK, Cox 6-14-54

Safe Wastes

OK, Plaag 3/2/1955

GAS FINAL APPROVAL OK, Cox 12-23-54

AIR CONDITIONING Contractor #46622 Jack Son Refrigeration...Install 1 - 3/4 ton A. C. Unit \$ 200.00 Dec. 16, 1954

SEPTIC TANK Contractor

OIL BURNER Contractor

SPRINKLER Contractor

ELECTRICAL Contractor #42961 Jennings Electric

Date September 9, 1954

OUTLETS Switches 22 Ranges 1

Temporary Service #42500 Jennings Electric: 7/19/54 OK

Lights 34 Irons 1

Neon Transformers

Receptacles 34 Refrigerators 1

Sign Outlets

Meginniss 7/21/54

Fans 1

Meter Change

Motors 4

Centers of Distributions 1

HEATERS Water 1

Appliances

Service 1

Space 2

Violations

FIXTURES 24

Electrical Contractor

Date

FINAL APPROVAL

By OK, Rosser

Date 12/20/54

spt survey

#8085

ALTERATIONS & ADDITIONS

Building Permits:

#2734-Sherba Bros.-1 4ton central a/c-\$1500-9-24-73

#89744 - Overseas Divers Co. - seawall repair \$7,000. - 12/7/78

4/14/81 #20088 - Kack Justice Inc. - for sale sign 5.00

#21256 11/25/81 owner remove existing cabinet, research structural building \$999.99

#90533 12/23/81 Home Owner Builder - remodel of existing house and addition of partial second floor as per plans \$75,000.

~~XXXXX~~ #21737 3/3/82 Fausto Omn Hernandez Roof - reroof 37 sq \$1,500.

#90605 3/19/82 Van Bower Pool Patio Spas pool w/spa and deck and fence \$14,000.

#M05717 4/7/82 Air-Pak Inc. - 3 air cond wind - 5 1/2 ton air cond central

Plumbing Permits: #36524 A. A. Septic Tank Company....one septic tank 700 gallons..11-2-1954 OK,
ROTHMAN 11-4-54

#60004 1/20/82 F Morejoy 1 rgh, 1 set bath tub, 1 rgh, 1 set bidet, 1 rgh 1 set dishwasher, 1 rgh, 1 set clothes washer
2 rgh, 2 set shower, 1 rgh, 1 set sink residence - 3 rgh, 3 set water closet (double fee)

#60132 3/26/82 Van Bower Pool and Patio - pool piping

#60819 1/24/83 E. Morejoy - 1 meter set gas, 1 gas piping

Electrical Permits:

#70825-Sherba Bros.- 1 motors, over 3-5 hp-9-26-73

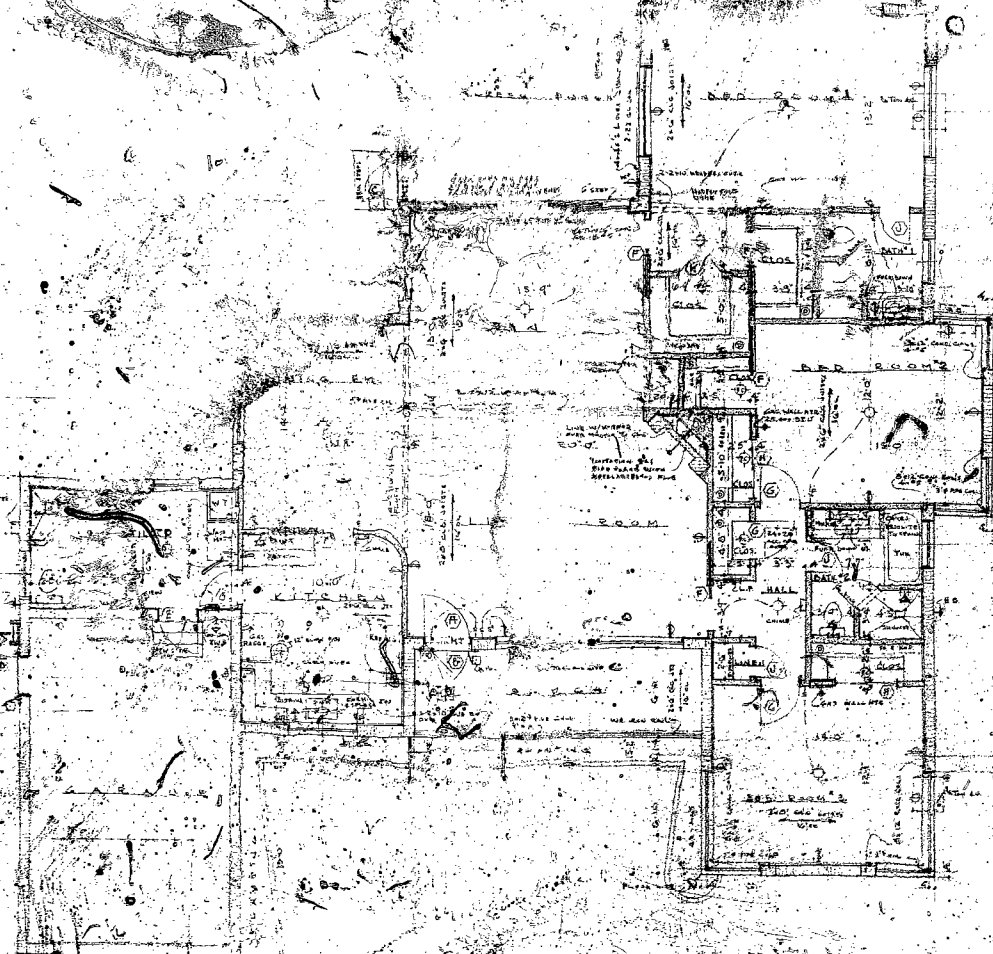
#77713 1/22/82 Union elect - 48 switch outlets, 53 light outlets, 48 receptacles, 1-250amp service size in amps --
3 appliance outlets, 1 range top over replace, 1 oven replace, 2 water heater, 1-4 ton air cond, 1-6 ton strip heater
53 fixtures, 1 dishwasher, 1 washer

#77963 5/17/82 Miami Beach Elect - 1 switch outlet, 2 light outlets, 3 motors over 1-3 hp

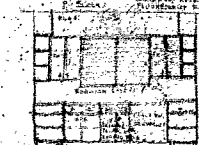
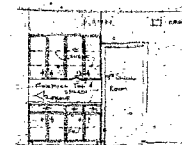
#79167 1/27/84 E. Morejon 2 switch, 2 light outlets & 2 recept, 2 fixtures

BUILDING PERMITS CONTINUED #24716 11/14/83 Alpha Marine dock \$2,500.

#25156 3/23/84 owner walkway to exist dock \$1,500.

[illegible]

ROOM		FURNITURE		ELECTRICAL		REMARKS	
NO.	NAME	NO.	NAME	NO.	NAME	NO.	NAME
1	Bed Room	1	Bed	1	Light	1	Water
2	Bath	1	Bathtub	1	Light	1	Water
3	Kitchen	1	Stove	1	Light	1	Water
4	Living Room	1	Sofa	1	Light	1	Water
5	Study	1	Desk	1	Light	1	Water
6	Garage	1	Car	1	Light	1	Water
7	Storage	1	Shelf	1	Light	1	Water
8	Attic	1	Trunk	1	Light	1	Water
9	Basement	1	Trunk	1	Light	1	Water
10	Back Yard	1	Trunk	1	Light	1	Water
11	Front Yard	1	Trunk	1	Light	1	Water
12	Driveway	1	Trunk	1	Light	1	Water
13	Garage	1	Trunk	1	Light	1	Water
14	Storage	1	Trunk	1	Light	1	Water
15	Attic	1	Trunk	1	Light	1	Water
16	Basement	1	Trunk	1	Light	1	Water
17	Back Yard	1	Trunk	1	Light	1	Water
18	Front Yard	1	Trunk	1	Light	1	Water
19	Driveway	1	Trunk	1	Light	1	Water
20	Garage	1	Trunk	1	Light	1	Water
21	Storage	1	Trunk	1	Light	1	Water
22	Attic	1	Trunk	1	Light	1	Water
23	Basement	1	Trunk	1	Light	1	Water
24	Back Yard	1	Trunk	1	Light	1	Water
25	Front Yard	1	Trunk	1	Light	1	Water
26	Driveway	1	Trunk	1	Light	1	Water
27	Garage	1	Trunk	1	Light	1	Water
28	Storage	1	Trunk	1	Light	1	Water
29	Attic	1	Trunk	1	Light	1	Water
30	Basement	1	Trunk	1	Light	1	Water
31	Back Yard	1	Trunk	1	Light	1	Water
32	Front Yard	1	Trunk	1	Light	1	Water
33	Driveway	1	Trunk	1	Light	1	Water
34	Garage	1	Trunk	1	Light	1	Water
35	Storage	1	Trunk	1	Light	1	Water
36	Attic	1	Trunk	1	Light	1	Water
37	Basement	1	Trunk	1	Light	1	Water
38	Back Yard	1	Trunk	1	Light	1	Water
39	Front Yard	1	Trunk	1	Light	1	Water
40	Driveway	1	Trunk	1	Light	1	Water
41	Garage	1	Trunk	1	Light	1	Water
42	Storage	1	Trunk	1	Light	1	Water
43	Attic	1	Trunk	1	Light	1	Water
44	Basement	1	Trunk	1	Light	1	Water
45	Back Yard	1	Trunk	1	Light	1	Water
46	Front Yard	1	Trunk	1	Light	1	Water
47	Driveway	1	Trunk	1	Light	1	Water
48	Garage	1	Trunk	1	Light	1	Water
49	Storage	1	Trunk	1	Light	1	Water
50	Attic	1	Trunk	1	Light	1	Water
51	Basement	1	Trunk	1	Light	1	Water
52	Back Yard	1	Trunk	1	Light	1	Water
53	Front Yard	1	Trunk	1	Light	1	Water
54	Driveway	1	Trunk	1	Light	1	Water
55	Garage	1	Trunk	1	Light	1	Water
56	Storage	1	Trunk	1	Light	1	Water
57	Attic	1	Trunk	1	Light	1	Water
58	Basement	1	Trunk	1	Light	1	Water
59	Back Yard	1	Trunk	1	Light	1	Water
60	Front Yard	1	Trunk	1	Light	1	Water
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64	Attic	1	Trunk	1	Light	1	Water
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67	Front Yard	1	Trunk	1	Light	1	Water
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69	Garage	1	Trunk	1	Light	1	Water
70	Storage	1	Trunk	1	Light	1	Water
71	Attic	1	Trunk	1	Light	1	Water
72	Basement	1	Trunk	1	Light	1	Water
73	Back Yard	1	Trunk	1	Light	1	Water
74	Front Yard	1	Trunk	1	Light	1	Water
75	Driveway	1	Trunk	1	Light	1	Water
76	Garage	1	Trunk	1	Light	1	Water
77	Storage	1	Trunk	1	Light	1	Water
78	Attic	1	Trunk	1	Light	1	Water
79	Basement	1	Trunk	1	Light	1	Water
80	Back Yard	1	Trunk	1	Light	1	Water
81	Front Yard	1	Trunk	1	Light	1	Water
82	Driveway	1	Trunk	1	Light	1	Water
83	Garage	1	Trunk	1	Light	1	Water
84	Storage	1	Trunk	1	Light	1	Water
85	Attic	1	Trunk	1	Light	1	Water
86	Basement	1	Trunk	1	Light	1	Water
87	Back Yard	1	Trunk	1	Light	1	Water
88	Front Yard	1	Trunk	1	Light	1	Water
89	Driveway	1	Trunk	1	Light	1	Water
90	Garage	1	Trunk	1	Light	1	Water
91	Storage	1	Trunk	1	Light	1	Water
92	Attic	1	Trunk	1	Light	1	Water
93	Basement	1	Trunk	1	Light	1	Water
94	Back Yard	1	Trunk	1	Light	1	Water
95	Front Yard	1	Trunk	1	Light	1	Water
96	Driveway	1	Trunk	1	Light	1	Water
97	Garage	1	Trunk	1	Light	1	Water
98	Storage	1	Trunk	1	Light	1	Water
99	Attic	1	Trunk	1	Light	1	Water
100	Basement	1	Trunk	1	Light	1	Water

[illegible]

ONE STORY RESIDENCE
FOR MORTIMER BRINZMAA
MIAMI BEACH FLORIDA
17-6-2-1000 BUREAU PHONE 2
ROBERT M. NOROIN
AIR CRAFT CO. INC.
230-1-1511 CLEVELAND

166

90533

90533

ELECTRIC SERVICE COMPUTATION

L.C. LOAD (TOTAL)	12.0 KW.
1ST WDH @ 100%	10.0 " "
61.3 KW @ 40%	24.5 "
<u>TOTAL KW</u>	<u>46.5 KW</u>
46.5 KW x 240V x 24	133.75 AMPs.

AIR COND. COMPUTATIONS
GROUND FLOOR $268 \text{ SQ FT} \times 8' \times 5 \times 0.67 = 70805 \text{ BTU} \div 12000 = 6 \text{ TONS}$
UPPER FLOOR $1,642' \times 8' \times 5 \times 0.67 = 44,006 \text{ BTU} \div 12000 = 4 \text{ TONS}$
PROVIDE & INSTALL REVERSE CYCLE UNITS B/L FLOOR.

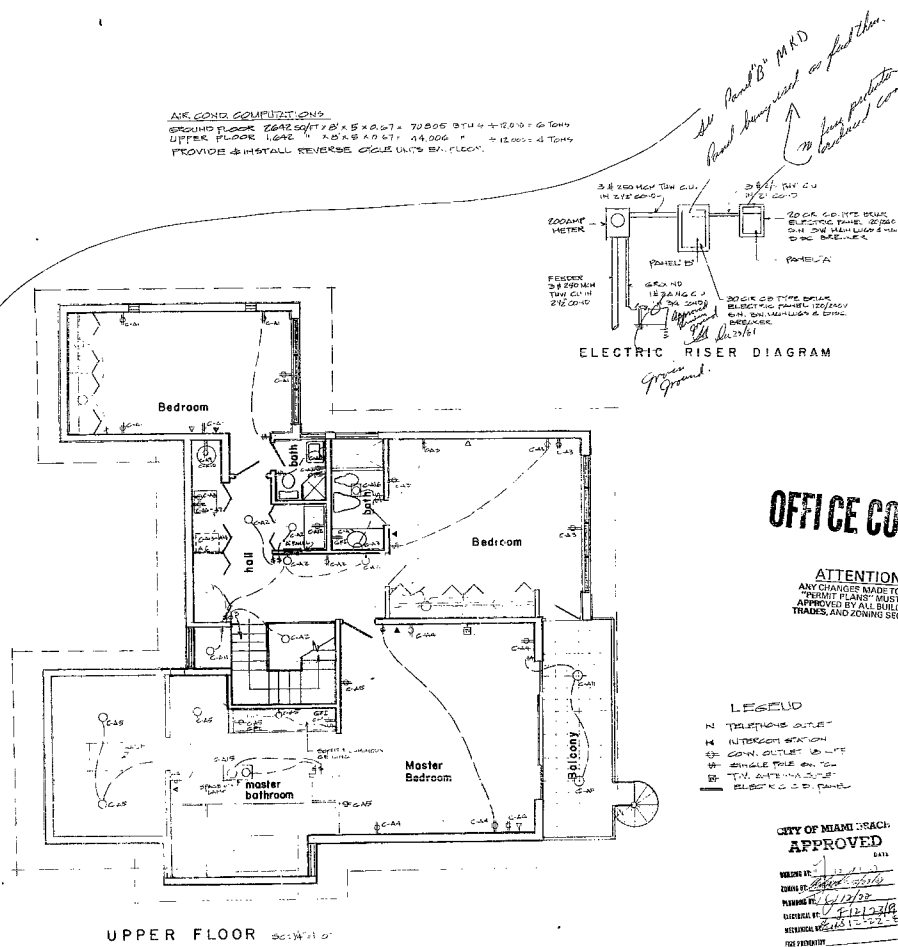
ELECTRIC PANEL M'KD 'A

[illegible]

ELECTRIC PANEL MKD "B"

WFO	DESCRIPTION	Q	THIN	CON	1ST	FLAT	WAVE
C01	GENERAL LIGHTING						
C02	1 COMM. COUNTRY						
C03							
C04							
C05							
C06	DISAPPEARANCES		2.4	1	2.0	1.5	
C07				1.0	1.0	1.5	
C08				1.5	1.0	1.5	
C09				1.5	1.0	1.5	
C10	GENERAL LIGHTING						
C11	GENERAL LIGHTING						
C12	GENERAL LIGHTING						
C13	GENERAL LIGHTING						
C14	GENERAL LIGHTING						
C15	GENERAL LIGHTING						
C16	GENERAL LIGHTING						
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C96	GENERAL LIGHTING						
C97	GENERAL LIGHTING						
C98	GENERAL LIGHTING						
C99	GENERAL LIGHTING						
C100	GENERAL LIGHTING						

TOTAL THIN C.P. IN BUREAU 10000 BUREAU TOTAL 85
 TOTAL CON. IN TYPE BUREAU 10000 BUREAU TOTAL 85
 TOTAL 1ST IN TYPE BUREAU 10000 BUREAU TOTAL 85
 TOTAL FLAT IN TYPE BUREAU 10000 BUREAU TOTAL 85
 TOTAL WAVE IN TYPE BUREAU 10000 BUREAU TOTAL 85



OFFICE COPY

ATTENTION
ANY CHANGES MADE TO THE
"PERMIT PLANS" MUST BE
APPROVED BY ALL BUILDING/
TRADES, AND ZONING SECTION.

LEGEND

2 TELEPHONE OUTLET
X INTERCOM STATION
* COIN. OUTLET 10-15¢
SINGLE TALK ON TV
□ TV. OUTLET 10-15¢
■ ELECTRIC C.D. PANEL

CITY OF MIAMI BEACH
APPROVED

WORKING BY: 12 21 12
DRAWING BY: [Signature]
PLANNING BY: 12/12/02
CALCULATED BY: 12/12/02
MECHANICAL BY: 12/12/02
PAGE PRESENTATION

SANTIAGO DOMESTIC AIRL.
JONES & CHURCH, P.C.

Larry Lyons

(1) 10/10/68

SECOND FLOOR ELECTRIC
LAYOUT

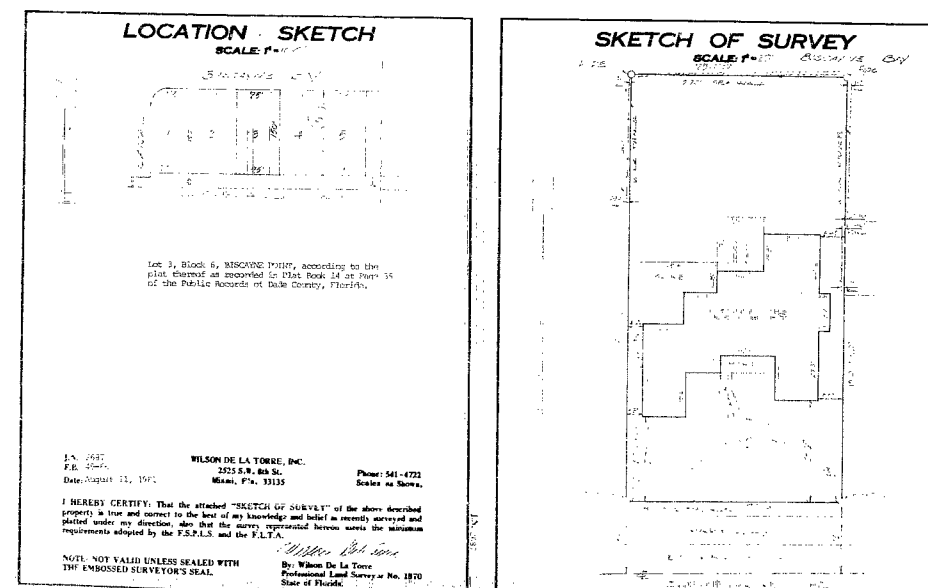
REMODELLING OF RESIDENCE FOR
DR. & MRS. JACOBO LEVY AT

90533

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90533

90533



90533

[illegible]

APPROVED FOR PERMIT SUBJECT TO ABOVE CORRECTIONS 12/23/81 FRANK ATYONIN
(Date) ENGINEERING DI

You have this date made application for a building permit as an owner-builder. You should be advised the following provisions and requirements that apply to owner-builders:

Hand-drawn floor plan of a building. The plan shows two main rooms, labeled 1 and 2, separated by a wall. Room 1 is on the left and Room 2 is on the right. The plan includes various dimensions and a scale bar.

Dimensions and labels:

- Top wall: 10' 0" (left), 10' 0" (right)
- Left wall: 10' 0" (top), 10' 0" (bottom)
- Right wall: 10' 0" (top), 10' 0" (bottom)
- Bottom wall: 10' 0" (left), 10' 0" (right)
- Room 1: 10' 0" (width), 10' 0" (depth)
- Room 2: 10' 0" (width), 10' 0" (depth)
- Central area: 10' 0" (width), 10' 0" (depth)
- Scale bar: 10' 0" (left), 10' 0" (right)

[illegible]

90533

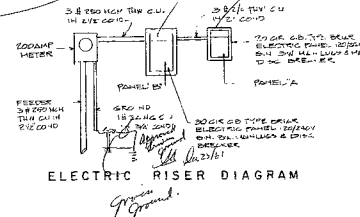
ELECTRIC SERVICE COMPUTATION

A.C. LOAD (TOTAL)	13.0 KW.
1ST. 10KW @ 100%	10.0 "
6.5 KW @ 40%	2.5 "
TOTAL KW	46.5 KW
$46.5 \text{ KW} \div 240 \text{ V} =$	193.75 AMPS.

[illegible]

ELECTRIC PANEL MKD "B"									
WED	DESCRIPTION	Q	UNIT	QTY	UNIT PRICE	EXT. PRICE	LINE	PLANT	REMARKS
Q-01	WATERMETER	1	EA	1	15	15	10	10	
Q-02	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-03	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-04	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-05	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-06	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-07	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-08	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-09	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-10	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-11	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-12	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-13	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-14	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-15	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-16	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-17	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-18	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-19	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-20	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-21	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-22	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-23	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-24	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-25	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-26	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-27	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-28	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-29	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-30	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-31	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-32	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-33	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-34	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-35	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-36	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-37	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-38	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-39	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-40	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-41	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-42	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-43	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-44	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-45	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-46	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-47	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-48	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-49	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-50	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-51	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-52	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-53	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-54	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-55	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-56	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-57	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-58	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-59	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-60	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-61	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-62	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-63	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-64	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-65	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-66	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-67	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-68	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-69	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-70	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-71	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
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Q-73	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-74	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-75	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-76	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-77	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-78	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-79	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-80	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-81	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-82	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-83	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-84	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
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Q-86	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
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Q-109	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
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Q-113	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
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Q-138	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	
Q-139	4 CONN. DISJUNCT	1	EA	1	15	15	10	10	

AIR COND. COMPUTATIONS
GROUND FLOOR 2642 SQ FT 18' X 5 X 0.67 = 70805 BTU/H + 12.0% = 6 TON
UPPER FLOOR 1,242 " 8' X 5 X 0.67 = 44,006 " + 12.0% = 4 TON
PROVIDE & INSTALL REVERSE CYCLE UNITS EA. FLOOR



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ATTENTION
ANY CHANGES MADE TO THE
"PERMIT PLANS" MUST BE
APPROVED BY ALL BUILDING
TRADES, AND ZONING SECTION

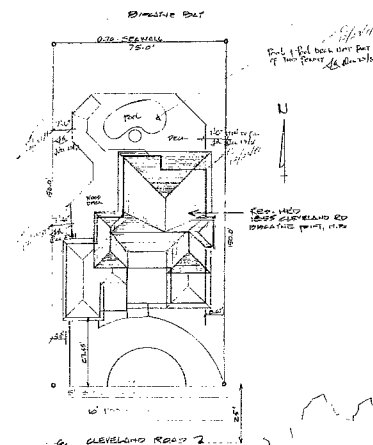
LEGEND
TELEPHONE OUTLET
INTERCOM EX-20
COIN. OUTLET 10-1
SINGLE TIE ON "C"
T. / EXTENSION 10-1
PLATE 10-1

CITY OF MIAMI BEACH
APPROVED
DATE: 12/11/07
BUILDING BY: [Signature]
ENGINEER BY: [Signature]
PLUMBING BY: [Signature]
ELECTRICAL BY: [Signature]
MECHANICAL BY: [Signature]
VICE PRESIDENT
MECHANICAL

SECOND FLOOR ELECTRIC

REMODELLING OF RESIDENCE FOR
DR. & MRS. JACOBO LEVY AT
1055 CLEVELAND BLVD. BISCAYNE POINT, M.B.

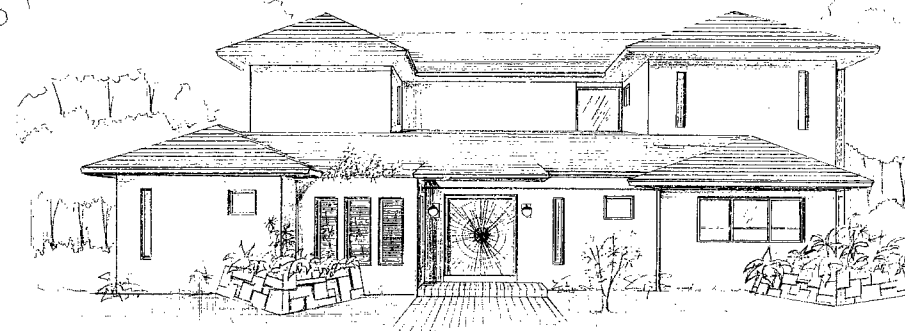
90533



PLOT PLAN

LEGEND: LOT 3 BLOCK 2
BISCAYNE BLVD. 125' E. RECORDS
IN PLAT BOOK 141 PAGE 340 OF
THE PUBLIC RECORDS OF Dade Co., FLA.

AREA SUMMARY	
ground floor	2,400 sq/ft
second floor	1,400 sq/ft
total construction	3,800 sq/ft
lot area	11,550 sq/ft ratio 25%



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"PERMIT PLANS" MUST BE
APPROVED BY ALL BUILDING,
TRADING, AND ZONING SECTION.

CITY OF MIAMI BEACH

APPROVED

DATE

DESIGNED BY

PERMITS BY

RELEASED BY

RECEIVED BY

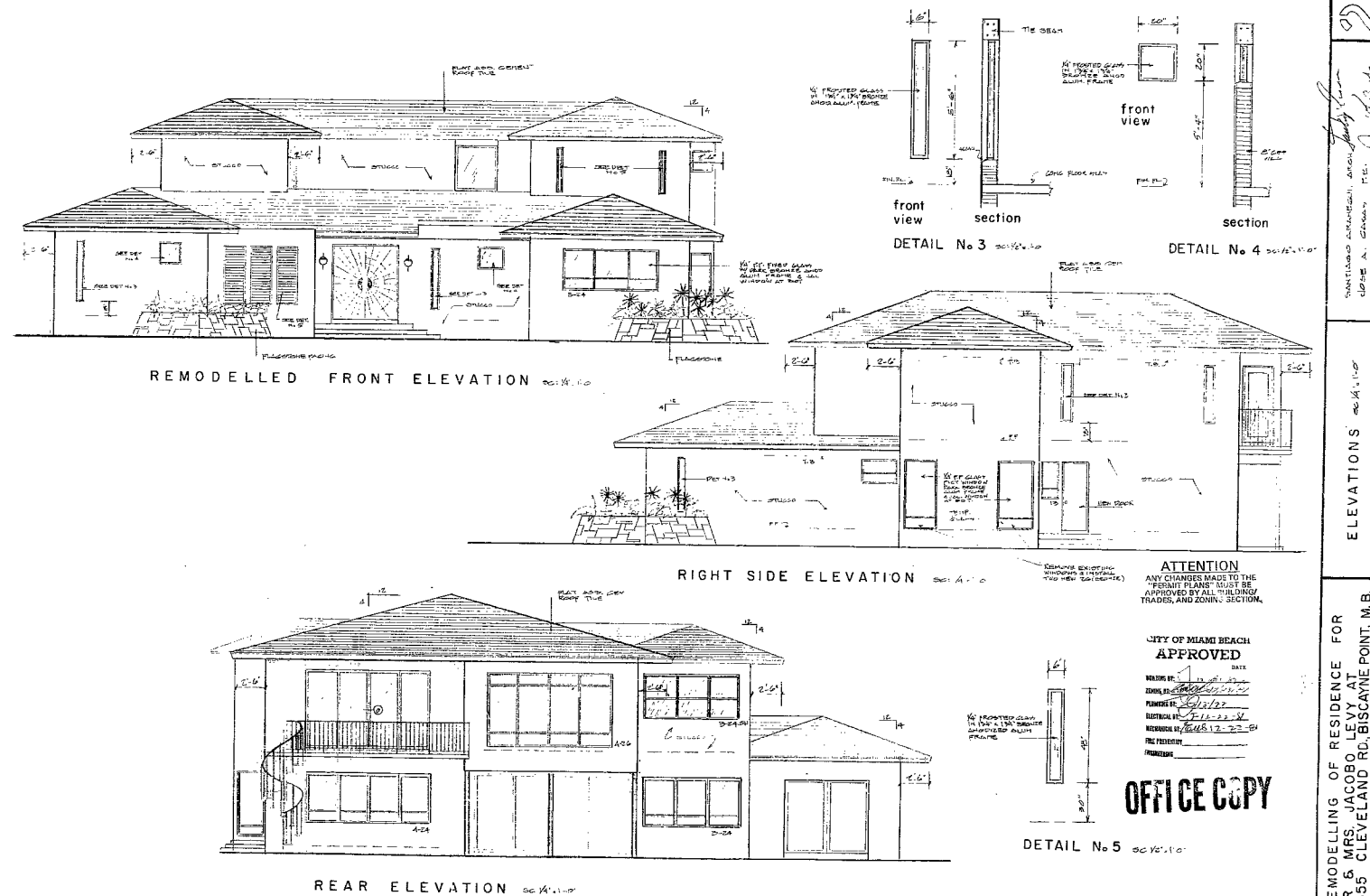
REVISIONS

RESIDENCE REMODELLING FOR DR. & MRS. JACOBO LEVY at
1855 CLEVELAND RD. BISCAYNE POINT, MIAMI BEACH

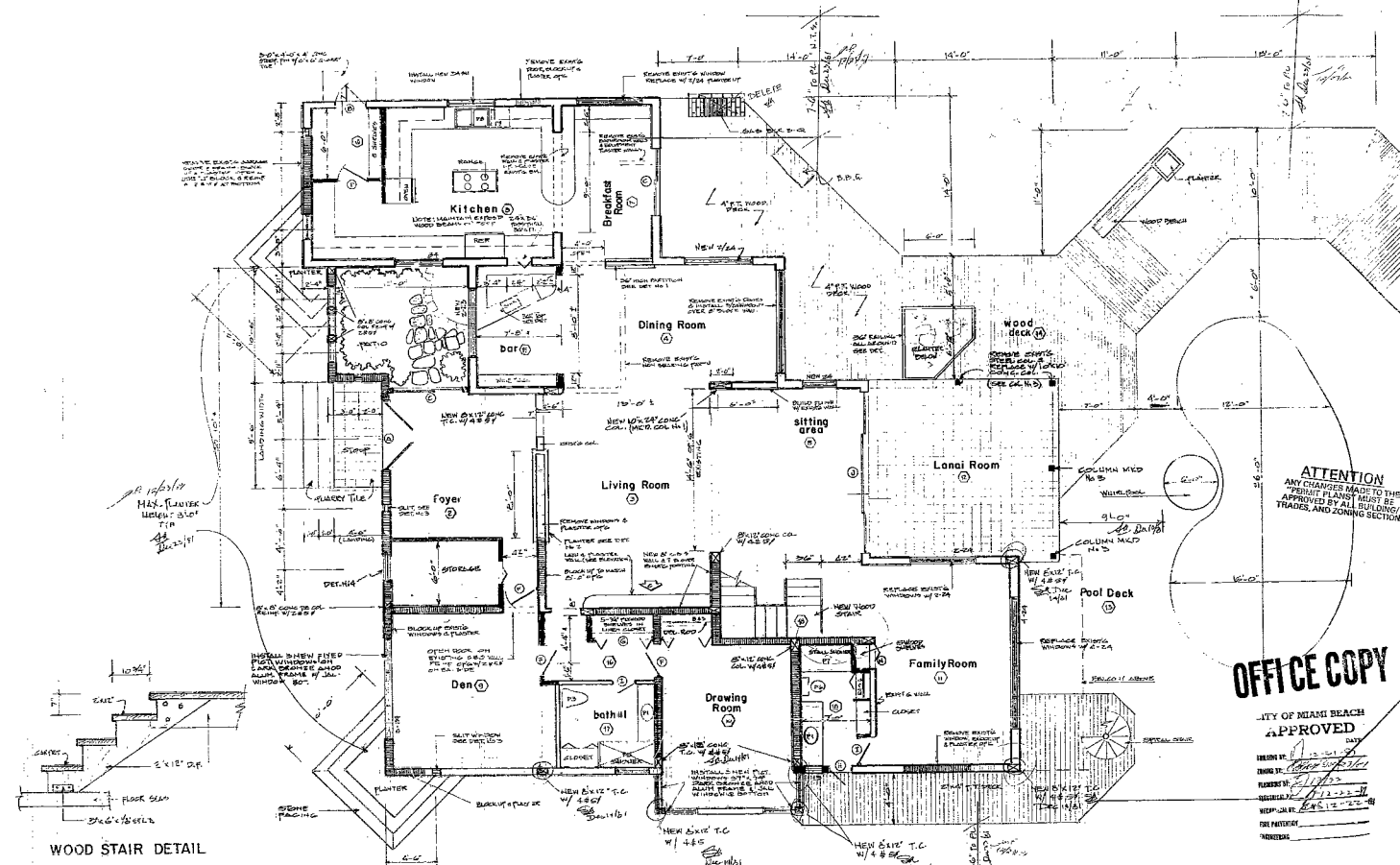
DESIGN BY: *Santiago Braneaga* arch.
SUBMITTED: *Jose A. Casar* p.e.

90533

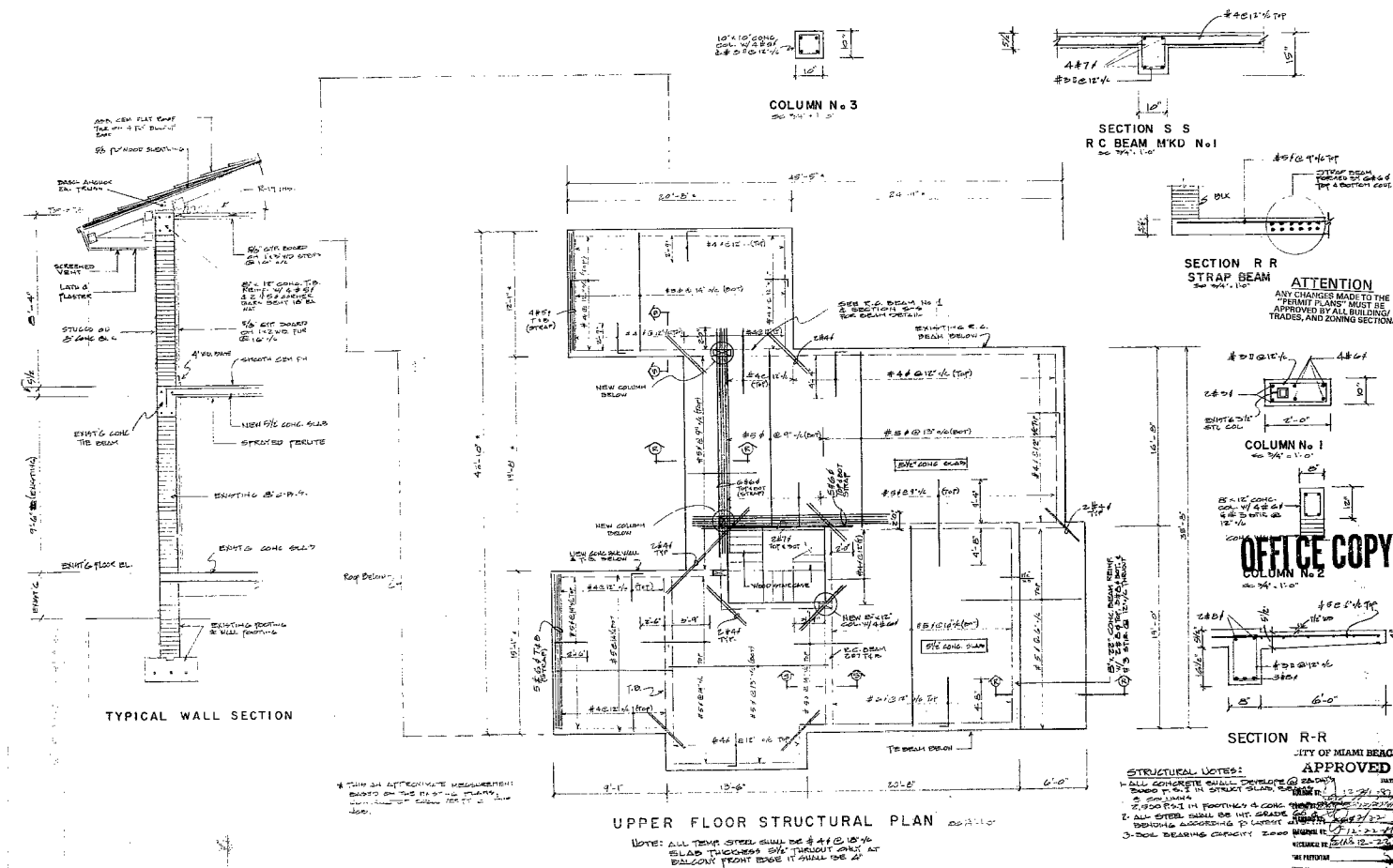
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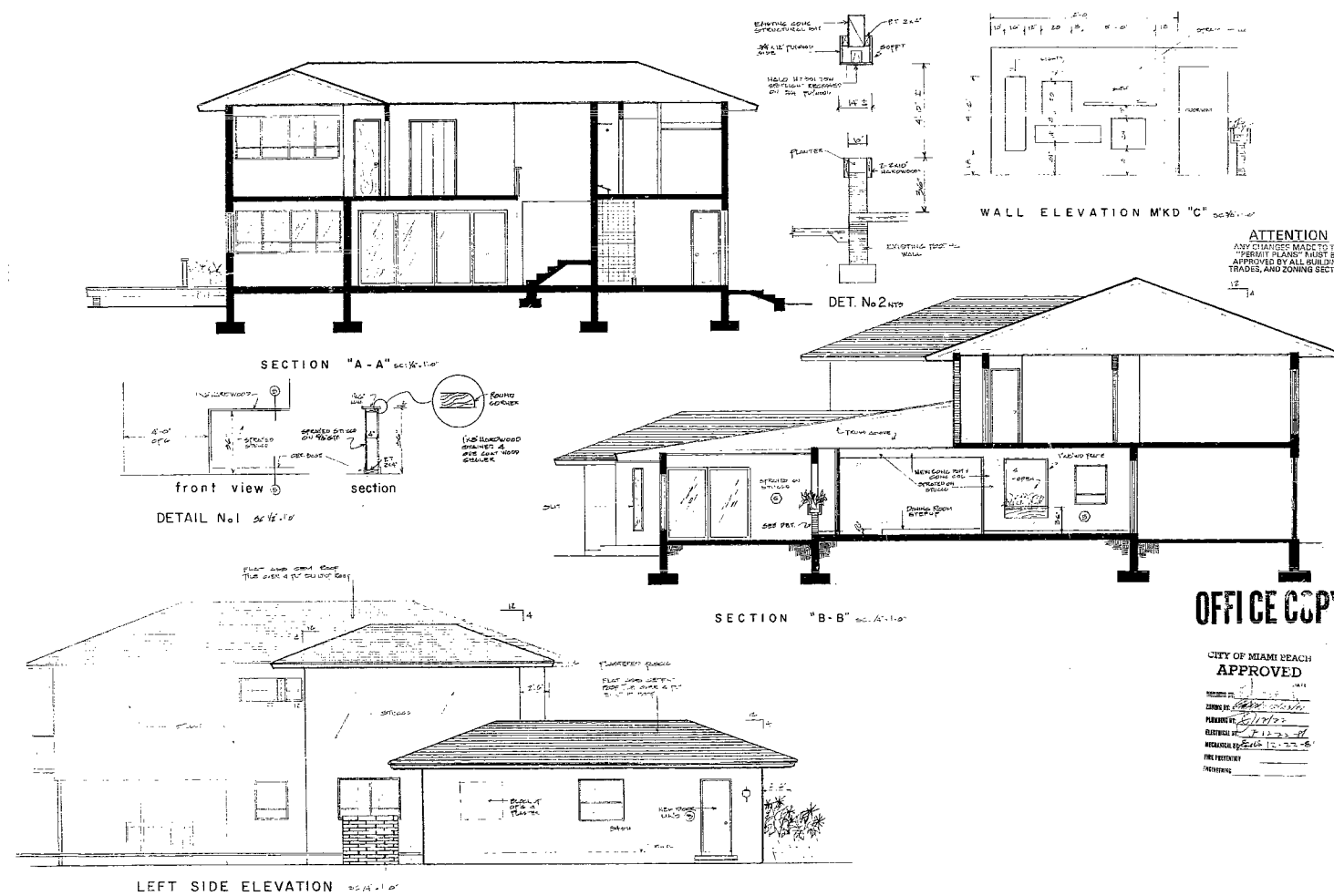


90533



90533





90533



FINISH SCHEDULE						
mkd	description	mtg	ca	col.no.	model	details
①	REMOVE THE					USE WHITE PAPER
②	WALL PAPER FROM					WALLS & DOORWAY
③	SCHEMATIC					
④	WALL PAPER					
⑤	WALL PAPER					
⑥	WALL PAPER					
⑦	WALL PAPER					
⑧	WALL PAPER					
⑨	WALL PAPER					
⑩	WALL PAPER					
⑪	WALL PAPER					
⑫	WALL PAPER					
⑬	WALL PAPER					
⑭	WALL PAPER					
⑮	WALL PAPER					
⑯	WALL PAPER					
⑰	WALL PAPER					
⑱	WALL PAPER					
⑲	WALL PAPER					
⑳	WALL PAPER					
㉑	WALL PAPER					
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[illegible]

ATTENTION
ANY CHANGES MADE TO THE
"PERMIT PLANS" MUST BE
APPROVED BY ALL BUILDING
TRADES, AND ZONING SECTION

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CITY OF MIAMI BEACH
APPROVED

FILE NO: 1 3 3 1 - 57 DATE:

CHARGE NO. 100-10310

PLUMBING BY: S. J. 12/22
ELECTRICAL BY: F. 12-26-28

RECEIVED BY SAHS 12-22
END DOCUMENT

FRAGMENTS _____

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (C) and the experimental group (E). The control group was divided into two subgroups: the control group (C) and the control group (C). The experimental group was divided into two subgroups: the experimental group (E) and the experimental group (E). The control group (C) was divided into two subgroups: the control group (C) and the control group (C). The experimental group (E) was divided into two subgroups: the experimental group (E) and the experimental group (E).

1. *Journal of the American Medical Association*, 1997; 277: 1033-1038.

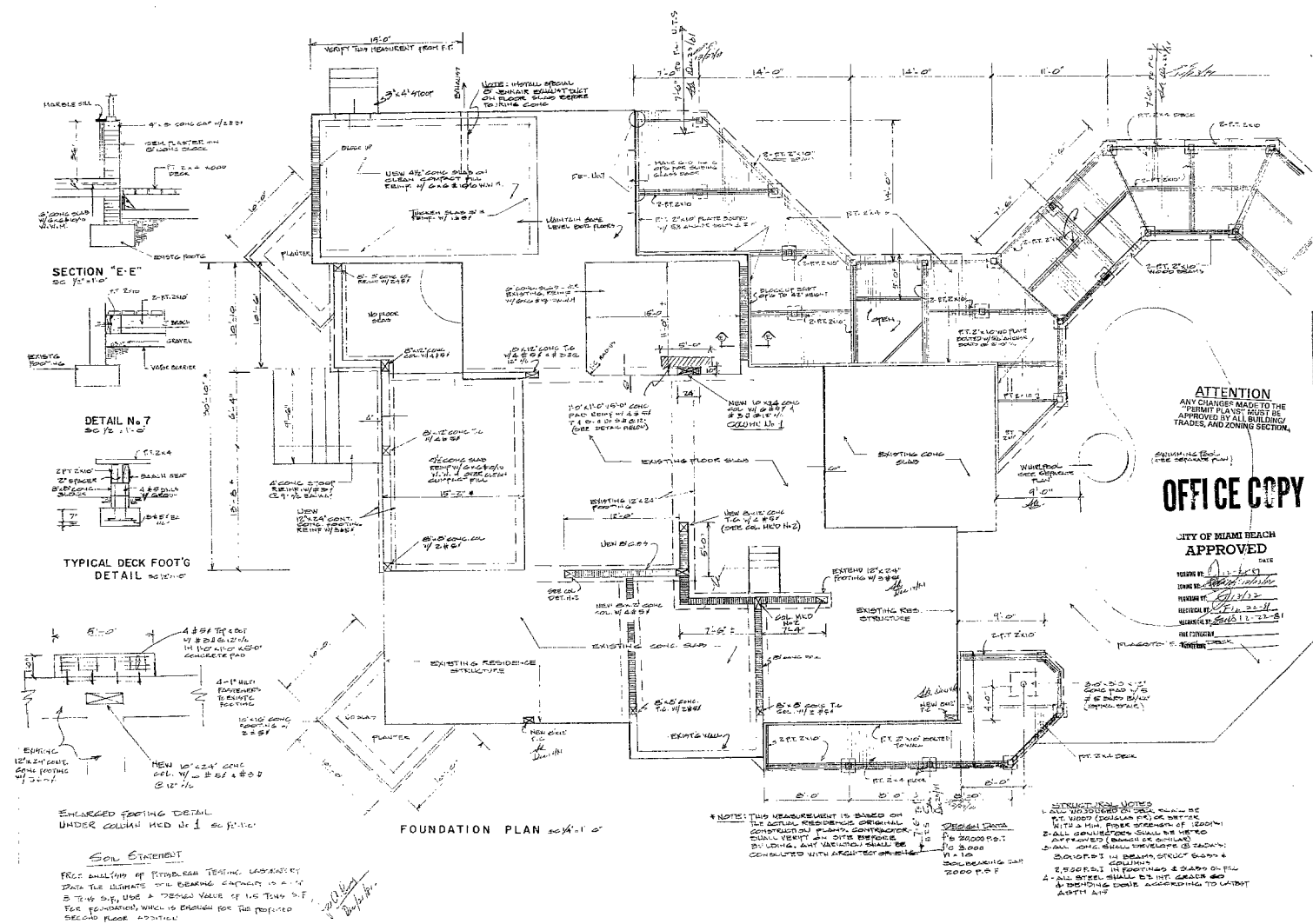
100

100

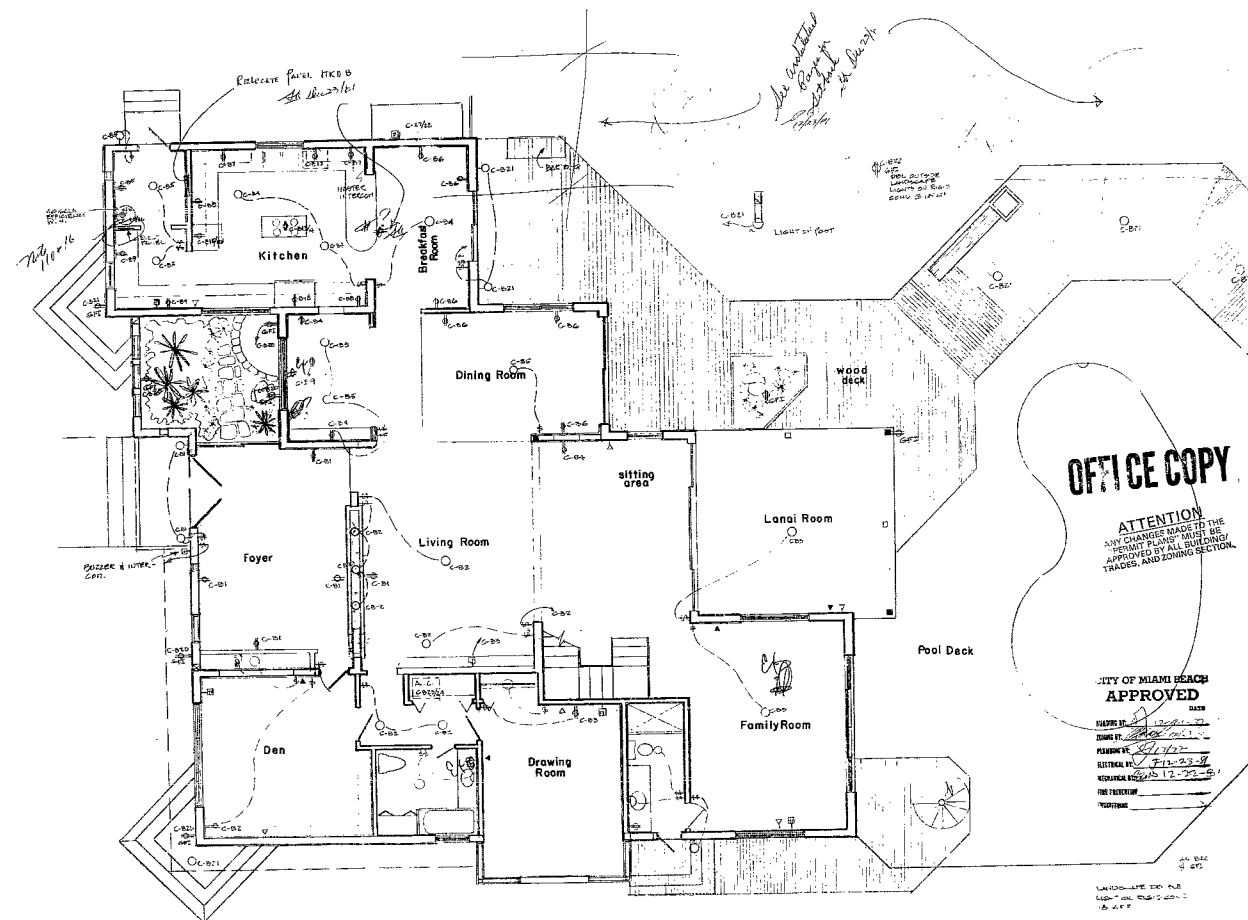
UPPER FLOOR PLAN

REMODELLING OF RESIDENCE FOR
DR. & MRS. JACOBO LEVY AT
1855 CLEVELAND RD BISCAYNE POINT M B

90533



90533



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ATTENTION
ANY CHANGES MADE TO THE
PERMIT FLOOR PLAN MUST BE
APPROVED BY ALL BUILDING
TRADES, AND GIVING SECTION.

CITY OF MIAMI BEACH
APPROVED

DATE: 12-27-01
DRAWN BY: J. J. J. J. J.
PERMIT NO.: 12-27-01
REVISIONS: 12-27-01
THE FUTURE
REVISIONS

UNLESS OTHERWISE NOTED
ALL DIMENSIONS ARE IN FEET
AND INCHES

	REMODELLING OF RESIDENCE FOR DR. & MRS. JACOBO LEVY AT 1855 CLEVELAND RD. BISCAYNE POINT, M.B.
	GROUND FLOOR ELECTRIC LAYOUT

90533

INTERIOR REPAIRS TO

SINGLE FAMILY RESIDENCE

1855 CLEVELAND ROAD
MIAMI BEACH, FLORIDA 33141

PROJECT INFORMATION:

ADDRESS:
1855 CLEVELAND ROAD
MIAMI BEACH, FLORIDA 33141

OWNER:
JACOB LEVY & LUCERO

FOLIO:
02-3203-001-0970

LEGAL DESCRIPTION:
BISCAYNE POINT PB 14-35 LOT 3 BLK 6 LOT SIZE 75,000 x 150 OR 1262-479 1181

BUILDING CODES:
FLORIDA BUILDING CODE, 2010 ED
FLORIDA BUILDING CODE, 2010 ED RESIDENTIAL
NFPA LIFE SAFETY CODE, 2009 ED
FLORIDA FIRE PREVENTION CODE, 5th EDITION

JURISDICTION:
CITY OF MIAMI BEACH
MIAMI-DADE COUNTY
STATE OF FLORIDA

BUILDING INFORMATION:
1. EXISTING BUILDING USE:
2. LAND USE:
3. BEDS / BATHS / HALF:
4. EXISTING AREA:

CODE PROVISION:
SINGLE-FAMILY RESIDENTIAL
RS-3 RESIDENTIAL
4 / 6 / 0
4,611 sq.ft.

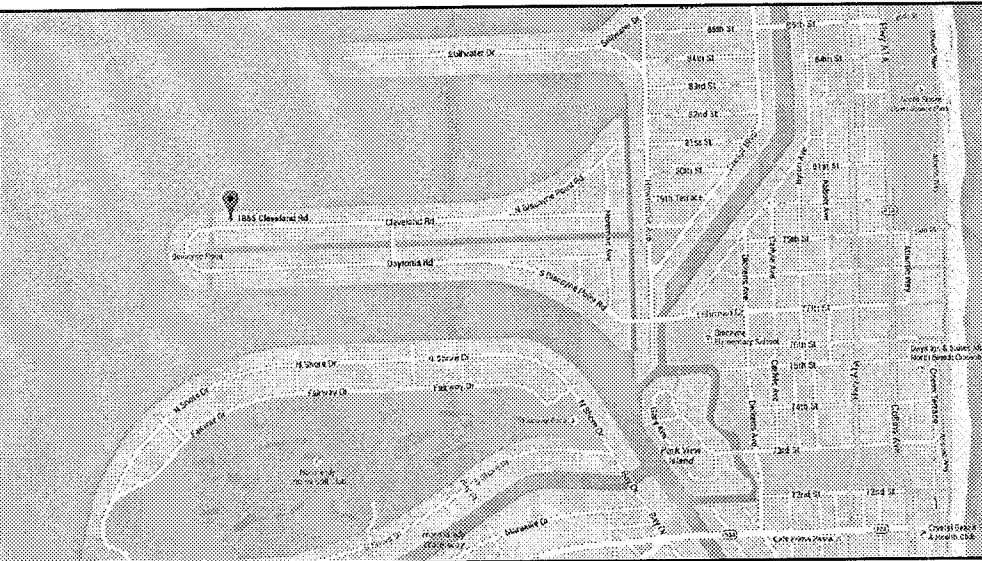
5. LEVEL OF ALTERATION: ALTERATION LEVEL 2

SCOPE OF WORK:

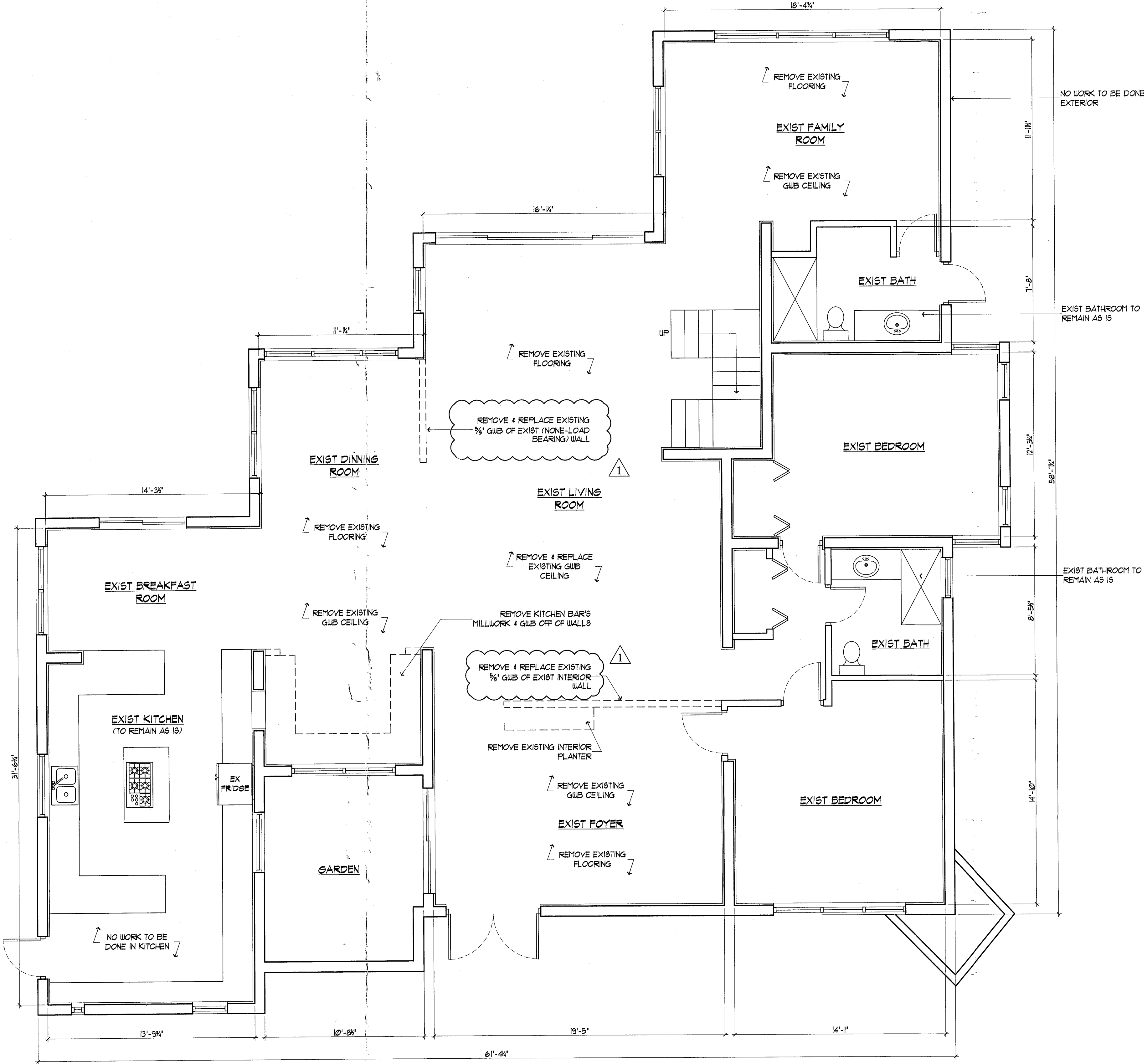
- INTERIOR REPAIR BY REPLACING EXISTING DAMAGED GUB OF EXISTING INTERIOR WALLS W/ NEW
- REPAIR BY REPLACING EXISTING DAMAGED GUB CEILING W/ NEW
- REMOVE EXISTING FLOORING
- NO STRUCTURAL WORK
- NO MECHANICAL, NO ELECTRICAL & NO PLUMBING WORK TO BE DONE UNDER THIS PERMIT
- NO EXTERIOR WORK
- NO WORK IN KITCHEN TO BE DONE



AERIAL VIEW:



LOCATION MAP:



REVISIONS		
No.	DATE	COMMENTS
1.	06.26.19	CITY COMMENTS
2.	-	-
3.	-	-
4.	-	-
5.	-	-
6.	-	-
7.	-	-
8.	-	-
9.	-	-
10.	-	-

INTERIOR DEMOLITION TO
SINGLE FAMILY RESIDENCE
1855 CLEVELAND ROAD
MIAMI BEACH, FL 33141

PROJECT INFO &
FIRST FLOOR
DEMOLITION PLAN

DRAWN BY: JMFP
CHECKED BY: JMFP
DATE: 05.02.19
SCALE: NOTED

SHEET #
A-01

DEMOLITION NOTES:

- CONDITIONS & REQUIREMENTS: THE DEMOLITION CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR HAULING & LEGALLY DISPOSING OF MATERIALS REMOVED IN DEMOLITION WORK.
- PROCEDURES: THE PROCEDURES PROPOSED FOR THE ACCOMPLISHMENT OF SALVAGE & DEMO WORK SHALL PROVIDE FOR SAFE CONDUCT OF THE WORK, CAREFUL REMOVAL & DISPOSING OF MATERIALS, PROTECTION OF PROPERTY, COORDINATION W/ WORK OF OTHERS IN PROGRESS, & TIMELY DISCONNECTION OF UTILITY SERVICES. THE PROCEDURES SHALL INCLUDE A DETAILED DESCRIPTION OF METHODS & REQUIREMENTS TO BE USED FOR EACH OPERATION.
- PARTITION: REMOVE ALL EXISTING INTERIOR PARTITIONS & RELATED UTILITIES AS INDICATED IN THE DEMOLITION PLAN.
- DUST CONTROL: THE AMOUNT OF DUST RESULTING FROM DEMO SHALL BE CONTROLLED TO PREVENT THE SPREAD OF DUST TO AVOID CREATION OF A NUISANCE IN THE SURROUNDING AREA. USE OF WATER WILL NOT BE PERMITTED WHEN IT WILL RESULT IN OR CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS FLOODING.
- PROTECTION OF EXISTING BUILDING:
 - EXISTING BUILDING SHALL BE PROTECTED FROM DAMAGE, ANY PART DAMAGE BY THE CONTRACTOR SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS AT CONTRACTOR'S EXPENSE.
 - COVER ITEMS AS NECESSARY TO PROTECT FROM DUST.
 - AT END OF EACH WORK DAY, CLOSE OFF AREAS FROM PUBLIC.
 - DEMO CONTRACTOR SHALL PROVIDE & MAINTAIN NECESSARY BARRICADES TO PREVENT SPILLAGE ON ANY UNAUTHORIZED PERSONS FROM ACCIDENTALLY OR INTENTIONALLY ENTERING THE WORK AREA.
- ENVIRONMENTAL PROTECTION: ALL WORK & CONTRACT OPERATIONS SHALL COMPLY W/ ALL REQUIREMENTS OF STATE & COUNTY ENVIRONMENTAL PROTECTION REGULATIONS.
- EXPLOSIVE & BURNING:
 - USE OF EXPLOSIVES WILL NOT BE PERMITTED.
 - USE OF FIRE FOR DEMO OR DISPOSAL OF MATERIAL OR ANY OTHER SITUATION INTENTIONAL OR ACCIDENTAL WILL NOT BE PERMITTED.
- EXISTING UTILITIES:
 - CONTACT ALL UTILITIES INCLUDING ELECTRIC, WATER, GAS & TELEPHONE, PRIOR TO BEGINNING WORK & REQUEST THAT ALL SERVICES BE SHUT OFF & CAPPED @ PRIMARY SERVICE LINES.
 - REMOVE ALL EXISTING UTILITIES ACCORDING TO SEQUENCE OF OPERATIONS APPROVED AT START OF PROJECT.
 - REMOVE ALL EXIST UTILITIES UNCOVERED BY DEMO & TERMINATE IN A MANNER & AT A TIME SATISFACTORY TO UTILITY COMPANIES INVOLVED, WHERE UTILITY COMPANY DESIRE TO EFFECT THE REMOVAL OF THEIR MATERIALS THEY SHALL BE PERMITTED TO DO SO.
 - REMOVE & DELIVER METERS & RELATED EQUIPMENT TO THE APPROPRIATE UTILITY COMPANIES WITHOUT ADDITIONAL COST TO THE OWNER. WHEN UTILITY LINES ARE ENCOUNTERED THAT ARE NOT ON THE DUGS OR VISIBLE THEY SHALL BE REMOVED IN ACCORDANCE W/ INSTRUCTIONS OF THE ARCHITECT/ENGINEER.
 - INSTALL & LEAVE A WELL MARKED STAKE @ CAPPED EN OF EVERY UTILITY CAPPED ON SITE.
- DISPOSING OF MATERIAL:
 - TITLE TO MATERIALS: TITLE TO ALL MATERIAL & EQUIPMENT TO BE DEMO & REMOVED EXCEPT ITEMS INDICATED TO BE TURNED OVER TO THE OWNER IS VESTED IN THE CONTRACTOR AT START OF PROJECT. THE OWNER WILL NOT BE RESPONSIBLE FOR THE CONDITIONS, LOSS OR DAMAGE TO SUCH PROPERTY AFTER NOTICE TO PROCEED.
 - DEBRIS CONTROL: REMOVE & TRANSPORT DEBRIS IN LEAK-FREE CONTAINERS IN A MANNER TO PREVENT SPILLAGE ON ANY PART OF EXISTING BUILDING, PARKING LOT, AREAS, OR CITY STREETS.
 - REGULATIONS: COMPLY W/ COUNTY, MUNICIPALITY & CITY REGULATIONS REGARDING HAULING & DISPOSAL OF DEBRIS. ALL SUCH MATERIAL SHALL BE REMOVED OFF SITE IN A LEGAL DISPOSAL AREA.
- PREPARATION:
 - PROVIDE ADEQUATE TEMP SUPPORT AS NECESSARY TO ASSURE STRUCTURAL VALUE OR INTEGRITY OF AFFECTED PORTION OF PROJECT FROM DAMAGE DURING DEMO.
 - PROVIDE DEVICES & METHODS TO PROTECT OTHER PORTIONS OF THE PROJECT FROM DAMAGE.
 - PROVIDE PROTECTION FROM ELEMENTS FOR THAT PORTION OF THE PROJECT WHICH MAY BE EXPOSED BY CUTTING & PATCHING WORK.
- PERFORMANCE:
 - EXECUTE CUTTING & DEMO BY METHODS WHICH WILL PREVENT DAMAGE TO OTHER WORK WHICH WILL PROVIDE PROPER SURFACES TO RECEIVE INSTALLATION OF REPAIRS.
 - EXECUTE FITTING & ADJUSTMENT OF PRODUCTS TO PROVIDE A FINISH INSTALLATION TO COMPLY W/ SPECIFIED PRODUCT, FUNCTION, TOLERANCE & FINISHES.
 - RESTORE WORK WHICH HAS BEEN CUT OR REMOVED. INSTALL NEW PRODUCTS TO PROVIDE COMPLETE WORK IN ACCORD W/ REQUIREMENTS THROUGH SURFACES.
 - FIT WORK AIR-TIGHT TO PIPES, SLEEVES, DUCTS, CONDUIT & OTHER PENETRATIONS THROUGH SURFACES.
 - REFINISH ENTIRE SURFACES AS NECESSARY TO PROVIDE A FINISH TO MATCH ADJACENT FINISH.
 - FOR CONTINUOUS SURFACES, REFINISH TO NEAREST INTERSECTION.
 - FOR AN ASSEMBLY, REFINISH ENTIRE UNIT.

ALTERATION/PROJECT PROCEDURES:

- REQUIREMENTS INCLUDED:
- COORDINATE WORK OF TRADES & SCHEDULE ELEMENTS OF ALTERATIONS & RENOVATION WORK BY PROCEDURES & METHODS TO EXPEDITE COMPLETION OF WORK.
 - CUT, MOVE, OR REMOVE ITEMS AS NECESSARY TO PROVIDE ACCESS OR TO ALLOW ALTERATIONS & NEW WORK TO PROCEED. INCLUDE SUCH ITEMS AS:
 - REPAIR OR REMOVAL OF HAZARDOUS OR UNSANITARY CONDITIONS.
 - REMOVAL OF ABANDONED ITEMS & ITEMS SERVING NO USEFUL PURPOSE, SUCH AS ABANDONED PIPING, CONDUIT & WIRING.
 - REMOVAL OF UNSUITABLE OR EXTRANEOUS MATERIALS NOT MARKED FOR SALVAGE, SUCH AS ABANDONED EQUIPMENT & DEBRIS INCLUDING ROTTED WOOD, ROTTED MTL, & DETERIORATED CONC.
 - ALTERATIONS & CONNECTIONS OF NEW CONSTRUCTION TO EXIST CONSTRUCTION OCCURS AT DUST SENSITIVE AREAS. EXECUTE ALL MEASURES TO COMPLETELY CONTROL & SEPARATE DUST FROM EXIST AREA & EQUIPMENT.

DEMOLITION LEGEND

- EXISTING CONC BLOCK WALL TO REMAIN AS IS. GC TO FIELD VERIFY.
- EXIST INTERIOR FRAMED-GUB PARTITION TO REMAIN. GC TO FIELD VERIFY.
- WALL/PARTITION TO BE DEMOLISHED/REMOVED. GC TO FIELD VERIFY EXACT LOCATIONS & THAT IT MATCHES W/ PERMITTED PROPOSED DRAWINGS.
- EXIST WINDOWGLASS TO BE REMOVED & DISPOSED ACCORDINGLY. GC TO FIELD VERIFY EXACT LOCATIONS & THAT IT MATCHES W/ PERMITTED PROPOSED DRAWINGS.
- EXIST DOORS TO BE REMOVED & DISPOSED ACCORDINGLY. GC TO FIELD VERIFY & MATCH W/ PERMIT DRAWINGS.



NO WORK TO BE DONE ON SECOND FLOOR

REVISIONS

No.	DATE	COMMENTS
1.	-	-
2.	-	-
3.	-	-
4.	-	-
5.	-	-
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7.	-	-
8.	-	-
9.	-	-
10.	-	-

INTERIOR DEMOLITION TO
SINGLE FAMILY RESIDENCE
1855 CLEVELAND ROAD
MIAMI BEACH, FL 33141

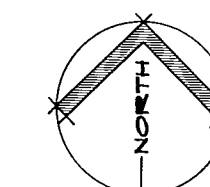
SECOND FLOOR
DEMOLITION PLAN
& GENERAL NOTES

DRAWN BY: JMEP
CHECKED BY: JMEP
DATE: 05.02.15
SCALE: NOTED

SHEET #

A-02

SCALE: 1/8" = 1'-0"



B1505025

1855 Cleveland
Rd.

OFFICE COPY

B1505025
1855 Cleveland
Rd



MIAMI BEACH

City of Miami Beach, 1700 Convention Center Drive, Miami Beach, Florida 33139, www.miamibeachfl.gov

Residential Swimming Pool, Spa or Hot Tub Safety Act Notice of Requirements

I (we) acknowledge that a new swimming pool, spa, or hot tub will be constructed or installed at 1855 Cleveland Rd and hereby affirm that one of the following methods will be used to meet the requirements of Florida Statute Chapter 515, and Florida Building Code Section 242.2.

Please initial the method(s) to be used for your pool or spa.

_____ The pool will be equipped with an approved safety pool cover that complies with ASTM F1346-91. (Submit Manufacturer specifications)

_____ A removable child barrier (with one end that shall be removable without the aid of tools) in compliance with FBC 424.17 will protect the pool perimeter. (Submit Manufacturer Specifications).

MR A combination of "non-dwelling" walls (fences, screen enclosures, etc.) will protect the perimeter. The plans must specify the type and location of all non-dwelling walls.

_____ A combination of protection which incorporates dwelling walls with openings into the pool perimeter and complying with FBC Section 424.2.17.1.9 (2): All doors and windows providing direct access to the pool must be equipped with self close and self latch-locking mechanical devices installed a minimum of 54" above the threshold. (Submit specifications for approval).

_____ A combination of protection which incorporates dwelling walls with openings into the pool perimeter and complying with FBC Section 424.2.17.1.9 (1): All doors and windows providing direct access to the pool shall be equipped with an exit alarm complying with UL 2017. (Submit Manufacturers specifications).

In accordance with the Florida Building Code, a final inspection of the pool project will not be approved without compliance with Private Swimming Pool Safety Requirements, and upon expiration of the permit, the pool shall be presumed to be unsafe.

I understand that not having one of the above systems installed will constitute a violation of Chapter 515, F.S., and will be considered as committing a misdemeanor of the second degree,

punishable as provided in Section 775.082 or Section 775.083 F.S. This form must be signed by the

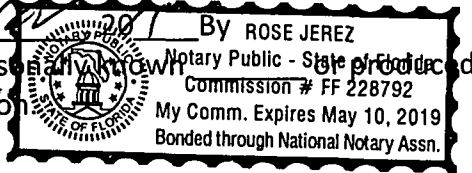
ITZHAIR ANKONINA

Owner's Name printed, Signed & Dated

11/01/2015

State of Florida County of Miami-Dade

Sworn and Subscribed before me this 2 day of Nov, 2015 who is personally known to me as identification



Notary Public, State of Florida

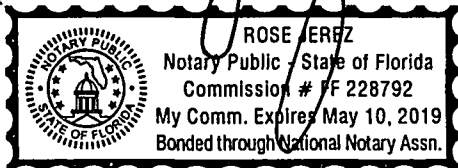
Maria C. Rodriguez

Prime Contractor's Printed Name, Signature & Date

10/29/15

State of Florida County of Miami-Dade

Sworn and Subscribed before me this 2 day of Nov, 2015 By who is personally known to me or produced as identification.



Notary Public, State of Florida

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008
Expiration Date: July 31, 2015

SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name 1855 CLEVELAND ROAD, LLC.

FOR INSURANCE COMPANY USE

Policy Number:

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
1855 CLEVELAND ROAD

Company NAIC Number:

City MIAMI BEACH

State FL

ZIP Code 33141

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOT 3, BLOCK 6, OF "BISCAYNE POINT" PB 14, PG.35, AS RECORDED IN MIAMI DADE COUNTY, FLORIDA.

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL

A5. Latitude/Longitude: Lat. 25°51'52.97" Long. -80°08'28.48"

Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 1B

A8. For a building with a crawlspace or enclosure(s):

- a) Square footage of crawlspace or enclosure(s) N/A sq ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade N/A
c) Total net area of flood openings in A8.b N/A sq in
d) Engineered flood openings? ☐ Yes ☒ No

A9. For a building with an attached garage:

- a) Square footage of attached garage N/A sq ft
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A
c) Total net area of flood openings in A9.b N/A sq in
d) Engineered flood openings? ☐ Yes ☒ No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number
(CITY OF MIAMI BEACH) 120651

B2. County Name
DADE COUNTY

B3. State
FL

B4. Map/Panel Number
12086C0307

B5. Suffix
L

B6. FIRM Index Date
09-11-2009

B7. FIRM Panel
Effective/Revised Date
09-11-2009

B8. Flood
Zone(s)
AE

B9. Base Flood Elevation(s) (Zone
AO, use base flood depth)
8.0

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.

☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source: _____

B11. Indicate elevation datum used for BFE in Item B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source: _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date: N/A ☐ CBRS ☐ OPA

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: BM

Vertical Datum: N.G.V.D. 1929

Indicate elevation datum used for the elevations in items a) through h) below. ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source: _____

Datum used for building elevations must be the same as that used for the BFE.

Check the measurement used.

- | | | |
|---|-------------|--|
| a) Top of bottom floor (including basement, crawlspace, or enclosure floor) | <u>7.09</u> | ☒ feet ☐ meters |
| b) Top of the next higher floor | <u>7.59</u> | ☒ feet ☐ meters |
| c) Bottom of the lowest horizontal structural member (V Zones only) | <u>N/A</u> | ☒ feet ☐ meters |
| d) Attached garage (top of slab) | <u>N/A</u> | ☒ feet ☐ meters |
| e) Lowest elevation of machinery or equipment servicing the building
(Describe type of equipment and location in Comments) | <u>6.06</u> | ☒ feet ☐ meters |
| f) Lowest adjacent (finished) grade next to building (LAG) | <u>5.70</u> | ☒ feet ☐ meters |
| g) Highest adjacent (finished) grade next to building (HAG) | <u>5.88</u> | ☒ feet ☐ meters |
| h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support | <u>N/A</u> | ☒ feet ☐ meters |

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

- ☒ Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a
☒ Check here if attachments. licensed land surveyor? ☒ Yes ☐ No

Certifier's Name ERNESTO E. ESPINOSA

License Number LS 2946

Title LAND SURVEYOR

Company Name LANDMARK SURVEYING & ASSC., INC.

Address P.O. BOX 127601

City HIALEAH

State FL ZIP Code 33012

Signature

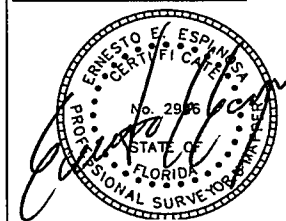
Date 06-17-2015

Telephone 305-556-4002

License No. 2946

Date:

06-17-2015



IMPORTANT: In these spaces, copy the corresponding information from Section A.		FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1855 CLEVELAND ROAD		Policy Number:
City MIAMI BEACH	State FL ZIP Code 33141	Company NAIC Number:

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments GEOGRAPHIC COORDINATES AS SHOWN IN A5 WERE TAKEN WITH A HANDHELD GPS RECIEVER.
 JOB# 1506-203 FOLIO# 02-3203-001-0970
 HIGHEST CROWN OF ROAD=5.22
 EQUIPMENT SERVICING THE BUILDING IS A AIR CONDITIONING UNIT.

Signature

Date 06-17-2015

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (Without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).

a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
 b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor elevation C2.5 in the diagrams) of the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only. If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name

Address	City	State	ZIP Code
Signature	Date	Telephone	
Comments			

☐ Check here if attachments.**SECTION G – COMMUNITY INFORMATION (OPTIONAL)**

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

- G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
 G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
 G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued
-------------------	------------------------	---

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____ ☐ feet ☐ meters Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____ ☐ feet ☐ meters Datum _____

G10. Community's design flood elevation: _____ ☐ feet ☐ meters Datum _____

Local Official's Name	Title
Community Name	Telephone
Signature	Date
Comments	

☐ Check here if attachments.

Building Photographs

See Instructions for Item A6.

IMPORTANT: In these spaces, copy the corresponding information from Section A.Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
1855 CLEVELAND ROAD

City MIAMI BEACH

State FL

ZIP Code 33141

FOR INSURANCE COMPANY USE

Policy Number:

Company NAIC Number:

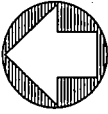
If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

BUILDING FRONT VIEW PHOTO TAKEN (06-17-2015)**BUILDING REAR VIEW PHOTO TAKEN (06-17-2015)**

BOUNDARY SURVEY

LOCATION MAP

NOT TO SCALE



PROFESSIONAL SURVEYORS AND MAPPERS
PO BOX 127601 HIALEAH, FLORIDA 33012
PHONE: (305) 556-4002 FAX: (305) 556-4003
WWW.LMSURVEYING.COM
EMAIL-LANDMARKSURVEYING@HOTMAIL.COM

LB NO. 7633

LEGAL DESCRIPTION:

LOT 3, OF BLOCK 6, OF "BISCAYNE POINT", ACCORDING TO
THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 14, AT
PAGE 35, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

PROPERTY ADDRESS:

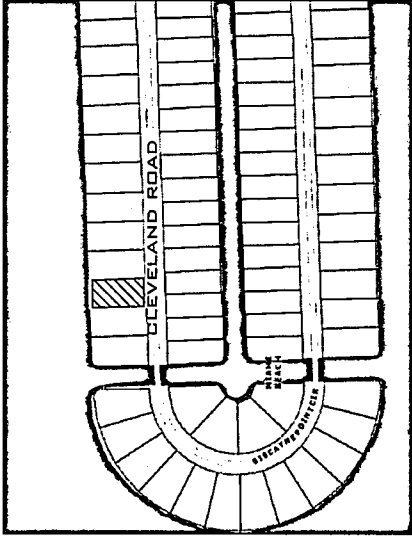
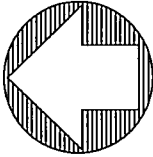
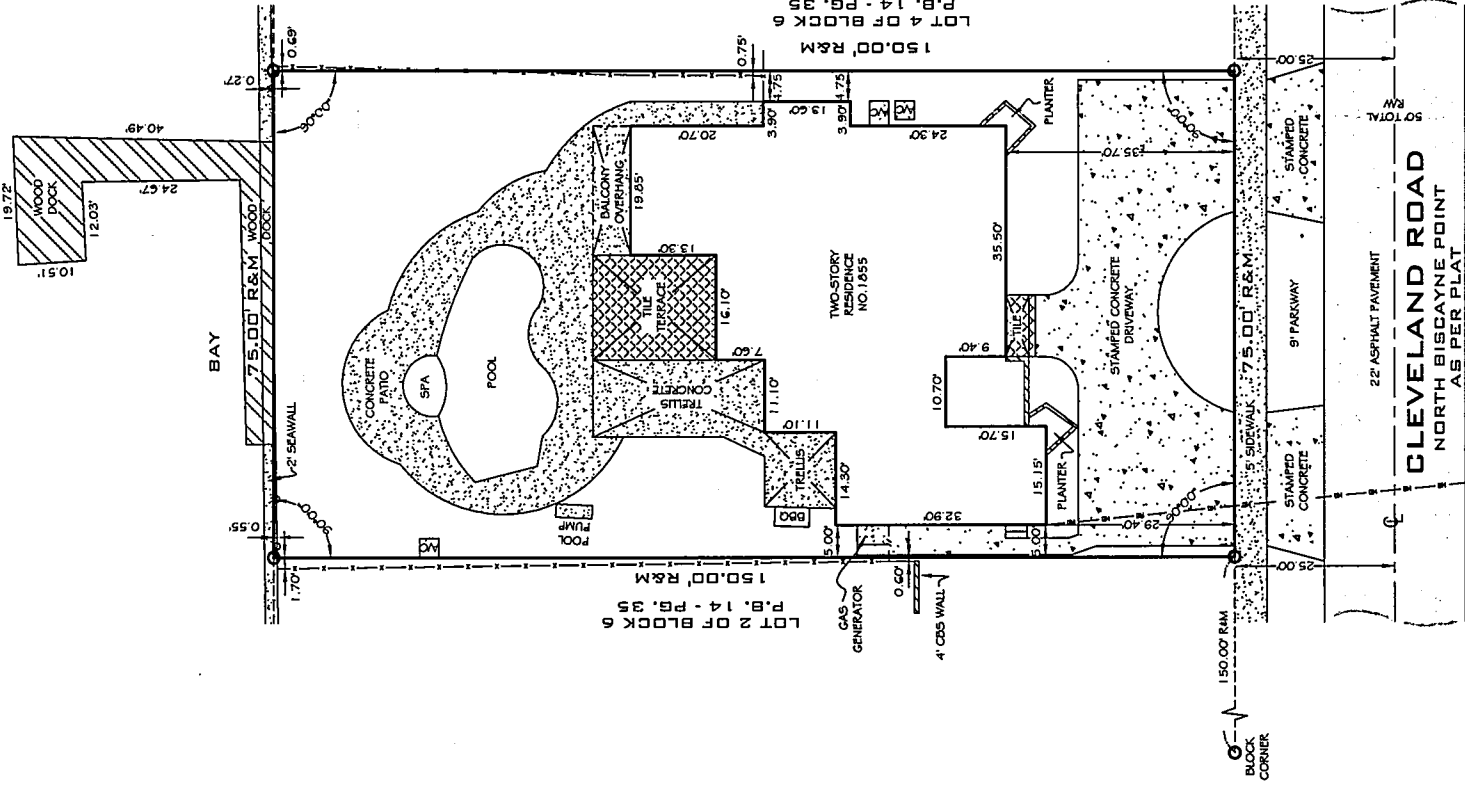
FOLIO No.02-3203-001-0970
1855 CLEVELAND ROAD
MIAMI BEACH, FL 33141

CERTIFIED TO:

- 1855 CLEVELAND ROAD, LLC.

GENERAL NOTES:

LEGAL DESCRIPTION PROVIDED BY OTHERS.
EXAMINATION OF THE ABSTRACT OF THE TITLE WILL HAVE
TO BE MADE TO DETERMINE RECORDED INSTRUMENTS, IF ANY,
AFFECT THIS PROPERTY.
THE LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR
EASEMENT OR OTHER RECORDED
ENCUMBRANCES NOT SHOWN ON THE PLAT.
THE WRITTEN CONSENT OF LANDMARK SURVEYING & ASSOCIATES, INC.
UNDERGROUND PORTIONS OF FOOTING, FOUNDATIONS OR OTHER
IMPROVEMENTS WERE NOT LOCATED.
ONLY VISIBLE AND ABOVE GROUND ENCROACHMENTS LOCATED.
WALL TIES ARE THE FACE OF THE WALL.
FENCE OWNERSHIP NOT DETERMINED.
BEARINGS REFERENCED TO LINE NOTED AS B.R.
BOUNDARY SURVEY MEANS A DRAWING AND/OR GRAPHIC
REPRESENTATION OF THE SURVEY WORK PERFORMED IN
THE FIELD, COULD BE DRAWN AT A SHOWN SCALE AND/OR NOT
TO SCALE.
NO IDENTIFICATION FOUND ON PROPERTY CORNERS UNLESS NOTED.
NOT VALID UNLESS SEALED WITH THE SIGNINGS SURVEYORS EMBOSSED SEAL.
DIMENSIONS SHOWN ARE PLAT AND MEASURED UNLESS OTHERWISE SHOWN.
ELEVATIONS IF SHOWN ARE BASED UPON N.G.V.D. 1929 UNLESS OTHERWISE
NOTED.
THIS IS A BOUNDARY SURVEY UNLESS OTHERWISE NOTED.
THIS BOUNDARY SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF
THE ENTITIES NAME HEREON. THE CERTIFICATIONS DO NOT EXTEND TO ANY
UNNAMED PARTIES.



ABBREVIATIONS AND LEGEND:

- AC DENOTES AIR CONDITIONING UNIT
- APPR. DENOTES APPROXIMATE
- ASPH. DENOTES ASPHALT
- B.C. DENOTES BLOCK CORNER
- B.M. DENOTES BENCH MARK
- C.B.S. DENOTES CONCRETE BLOCK STUCCO
- CONC. DENOTES CONCRETE
- C & G DENOTES CURB & GUTTER
- V.G. DENOTES VALLEY GUTTER
- M DENOTES CENTERLINE
- D.M.E. DENOTES DRAINAGE & MAINTENANCE EASEMENT
- DIA. DENOTES DIAMETER
- D.H. DENOTES DRILL HOLE
- (M) DENOTES MEASURE
- RM DENOTES RECORD
- RV DENOTES RIGHT-OF-WAY
- U.E. DENOTES UTILITY EASEMENT
- P.B. DENOTES PLAT BOOK
- P.C. DENOTES PERMANENT CONTROL POINT
- P.C.P. DENOTES PERMANENT CONTROL POINT
- P.O.B. DENOTES POINT OF BEGINNING
- TYP. DENOTES TYPICAL
- //— DENOTES CHAIN LINK FENCE
- x— DENOTES WOOD FENCE
- o— DENOTES IRON FENCE
- o— DENOTES FOUND IRON PIPE (NO ID.)
- o— DENOTES FOUND NAILS AND PILES
- o— DENOTES ASPHALT PAVEMENT
- o— DENOTES BRICK
- o— DENOTES CONCRETE PAD

ALL BEARINGS AND DISTANCES SHOWN
HEREON ARE RECORD AND MEASURED
UNLESS OTHERWISE NOTED.

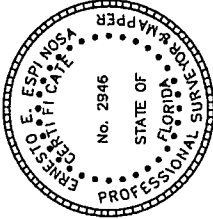
FLOOD ZONE:	AE
ELEVATION:	8.0
COMMUNITY:	12065 I
PANEL:	307
DATE OF FIRM:	09-11-2009
SUFFIX:	L
FIELD DATE OF SURVEY	06-15-2015
BENCH MARK:	N/A
ELEVATION:	N/A
DATE	06-15-2015
DRAWN BY	JP
SCALE	1"=30'

REVISION / UPDATE OF SURVEY

DATE	DESCRIPTION
N/A	N/A
JOB NO.	
1506-203	

CERTIFICATION:

SURVEYORS CERTIFICATION: I HEREBY CERTIFY THAT THIS "FINAL SURVEY" IS A TRUE AND CORRECT REPRESENTATION OF A SURVEY PREPARED UNDER MY DIRECTION. THIS COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS, AS SET FORTH BY THE STATE OF FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE.



SIGNED *Ernest O. E. Espinoza* FOR THE FIRM
ERNEST O. ESPINOZA P.M. No. 2946-STATE OF FLORIDA
NOT VALID WITHOUT AN AUTHENTIC ELECTRONIC SIGNATURE AND AUTHENTICATED
ELECTRONIC SEAL AND/OR THIS MAP IS NOT VALID WITHOUT THE SIGNATURE AND
THE ORIGINAL RAISED SEAL OF A LICENSE SURVEYOR AND MAPPER.



ENGINEERING & TESTING, INC.

Phone: (866) 781-6889 • Fax: (866) 784-8550
www.floridaengineeringandtesting.com
250 S.W. 13th Avenue
Pompano Beach, FL 33069

**REPORT OF
GEOTECHNICAL EXPLORATION**

FOR:

**Interior Designs
1210 Cleveland Street
Miami Beach, Florida 33141**

PREPARED FOR:

**Proposed Swimming Pool
1855 Cleveland Street
Miami Beach, Florida 33141**

PREPARED BY:

**Florida Engineering & Testing, Inc.
250 S.W. 13th Avenue
Pompano Beach, Florida 33069
(954) 781-6889**

ON:

September 30, 2015



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DISCLAIMER

Our report findings are based on present onsite soil conditions encountered. **It is imperative that you read our reports in their entirety and follow all recommendations as listed.** Failure to follow our recommendations, may result in delays and additional costs due to permitting agencies (Building Department, etc.) withholding a Certificate of Occupancy for your proposed structure(s).

All recommendations shall be followed in order to receive a final certification, which may include but not be limited to density testing per lift of fill material, demucking verifications, piling inspections. In addition, these reports are for foundation analysis only and shall not be used for excavating, backfilling, or pricing estimates.

Please schedule us at least 24 hours in advance for all tests and inspections. If you choose to use another engineering firm for further testing and inspections, it is your responsibility to ensure that they provide you with the proper certification in writing, as outlined in our report.



ENGINEERING & TESTING, INC.

Phone: (866) 781-6889 • Fax: (866) 784-8550
www.floridaengineeringandtesting.com
250 S.W. 13th Avenue
Pompano Beach, FL 33069

September 30, 2015

Job Order No.: 15-3047

Interior Designs
1210 Cleveland Street
Miami Beach, Florida 33141

RE: SUBSOIL INVESTIGATION

Proposed Swimming Pool
1855 Cleveland Street
Miami Beach, Florida 33141

Dear Sir or Madam;

Pursuant to your request, Florida Engineering & Testing, Inc., has completed a subsoil investigation on September 29, 2015, at the above referenced site. The purpose of our investigation was to verify subsoil conditions relative to the proposed structure(s) foundation preparation and design. Our recommendations are based on the assumption that the proposed structure(s) are as follows: a standard size gunite swimming pool.

One (1) SPT boring was performed according to ASTM D-1586 down to a depth of twenty-five feet (25') below existing ground level (BEG) (see attached field sketch for locations). The following is a general condition for the subject site (see attached SPT Test Boring Report(s) for details):

Depth		<u>Soil Descriptions</u>
<u>From</u>	<u>To</u>	
0' - 4'		Light Brown Fine Sand with Some Rock
4' - 10'		Light Brown Fine Sand
10' - 15'		Brown Fine Sand with Trace of Rock and Shell
15' - 25'		Bluish Gray Slightly Silty Fine Sand with Trace of Rock

Groundwater table elevation was measured immediately at the completion of the boring and was found at a depth of three feet (3') BEGL. Fluctuation in water levels should be anticipated due to surface runoff, tidal influences, seasonal variations, varying ground elevation, construction dewatering and pumping activities in the area. Site contractor must familiarize themselves with site conditions in the event groundwater controls and dewatering is needed. The contractor shall make sure that groundwater levels on adjacent properties are not affected by the contractors dewatering activities. Specialty groundwater contractors shall be consulted for all work below the groundwater level.





The boring log attached presents a detailed description of the soils encountered at the test location. The soil stratification shown on the boring log is based on the examination of the recovered soil samples and interpretation of the driller's field log. It indicates only the approximate boundaries between soil types. The actual transitions between adjacent soil types may be gradual.

Based on our understanding of the proposed structure and the information obtained from our field boring log; we recommend the following procedures for foundation preparation:

- 1) Locate, dewater, and excavate pool or spa area plus two feet (2') past the outer perimeter of the structure down to pool or spa bottom elevation.
- 2) All excavations shall maintain a minimum of 2 horizontal to 1 vertical (2:1) ~~next to~~ all foundations to prevent undermining of the existing foundations. If the required slope recommendations cannot be maintained, then shoring of the existing foundations may be required to prevent undermining.
- 3) Compact the excavated area with a heavy self-propelled vibratory roller to a minimum of 95% of the A.S.T.M. D-1557 modified proctor method.
- 4) Backfill to proper pool bottom elevation if needed using a clean granular material placed in lifts not to exceed twelve inches (12") in thickness and compacted as per item 3.
- 5) Care should be taken when using vibration in case of existing structures in the vicinity of the construction area. If vibration cannot be used for compaction, static compaction may be applied. However, in this case, the compacted layers should not exceed six inches (6") in thickness.
- 6) All construction fill material shall be clean granular soil, free of organics or other deleterious material, and shall contain no more than ten percent fines passing a U.S. Standard No. 200 sieve (0.075mm). In order to ensure that the soils at the bottom of the pool are stabilized we recommend that a six-inch (6") layer of D.O.T. #57 stone to be placed at the bottom of the pool foundation.
- 7) Representative samples of the on-site and proposed fill material should be collected and tested to determine the classification and compaction characteristics.
- 8) Verify all densification procedures by taking an adequate number of field density tests in each layer of compacted material. **This must be scheduled before steel placement. If steel is already in-place, it must be removed from all areas to be tested prior to performing densities.**
- 9) All Geotechnical work shall be performed under the supervision of a Geotechnical Engineer or his representative.



Provided the above foundation recommendations are achieved and verified; it is our opinion that the proposed structure can be designed for a shallow foundation system with a permissible soil bearing pressure not to exceed 2,000 P.S.F. Bearing capacity certification requires satisfactory completion and verification of all the above foundation recommendations.

If applicable, provisions shall be made by the architect, engineer of record and contractor to address differential settlements when tying in new to existing structures. If applicable, the seawall structure should be inspected to verify the structural integrity and prevent undermining due to the piling installation or excavation operations.

Regardless of the thoroughness of a Geotechnical exploration there is always a possibility that conditions may be different from those of the test location; therefore Florida Engineering & Testing, Inc., does not guarantee any subsoil condition surrounding the bore test hole. For a more accurate portrayal of subsurface conditions, the site contractor should perform test pits. The discovery of any site or subsurface conditions during construction which substantially deviate from the information in our subsoil investigation should be reported to us immediately for our evaluation. In accepting this report the client understands that all data from this soil boring report is intended for foundation analysis only and is not to be used for excavating, backfilling, or pricing estimates. The site contractor must familiarize themselves with the job site conditions prior to bidding.

As mutual protection to clients, the public, and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions, or extracts from or regarding our reports is reserved pending our written approval. All work must be conducted under the supervision of our Geotechnical engineer. All work shall be conducted in compliance with the Florida Building Code FBC and OSHA workers protection rules and all applicable Federal, State, County and City rules and Regulations.

Florida Engineering & Testing, Inc., appreciates the opportunity to be of service to you at this phase of your project. If you have any questions or comments, please give us a call. We would be pleased to help any way we can. It has been a pleasure working with you and look forward to doing so in the near future.

Sincerely,


10-2-15
Mark A. Mesiano, P.E.
Florida Engineering & Testing, Inc.
Florida Reg. No. 48202
Certificate of Authorization No. 6923

SPT Test Boring Report

Client: Interior Designs Hole No: B-1

Project: Proposed Swimming Pool Date: 9/29/15

Address: 1855 Cleveland Road Miami Beach, Florida

Location: See Attached Field Sketch

Depth (Ft)	Soil Descriptions	Hammer Blows	N	Penetration "N" Value			
				10	20	30	40
0' - 4'	Light Brown Fine Sand with Some Rock	5 6	12				
		6 6					
		5 4	9				
		5 5					
4' - 10'	Light Brown Fine Sand	3 3	6				
		3 2					
		4 3	7				
		4 4					
10' - 15'	Brown Fine Sand with Trace of Rock and Shell	4 5	9				
		4 6					
		-- --	A				
		-- --					
15' - 25'	Bluish Gray Slightly Silty Fine Sand with Trace of Rock	5 5	10				
		5 7					
		-- --	A				
		-- --					
		7 9	17				
		8 11					
		-- --	A				
		-- --					
25' - 30'		9 7	17				
		10 12					

Water Level: 3'0" BEGL

As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

A = Auger

Ref = Refusal

BEGL = Below Existing Ground Level

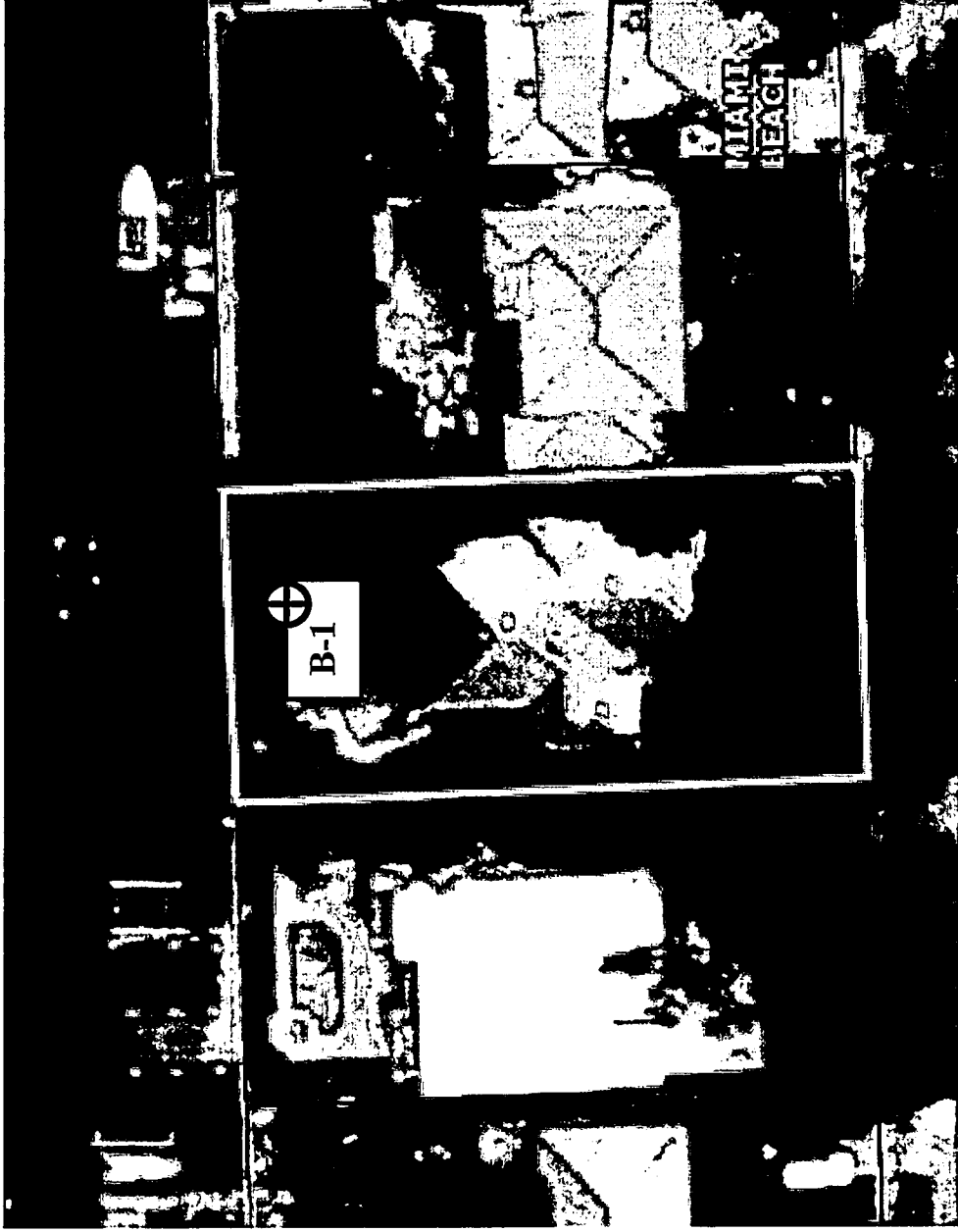
0 = Weight of Hammer

10-2-15
Mark A. Mesiano, P.E.

Florida Engineering & Testing, Inc.

Florida Reg. No. 48202

Certificate of Authorization No. 6923



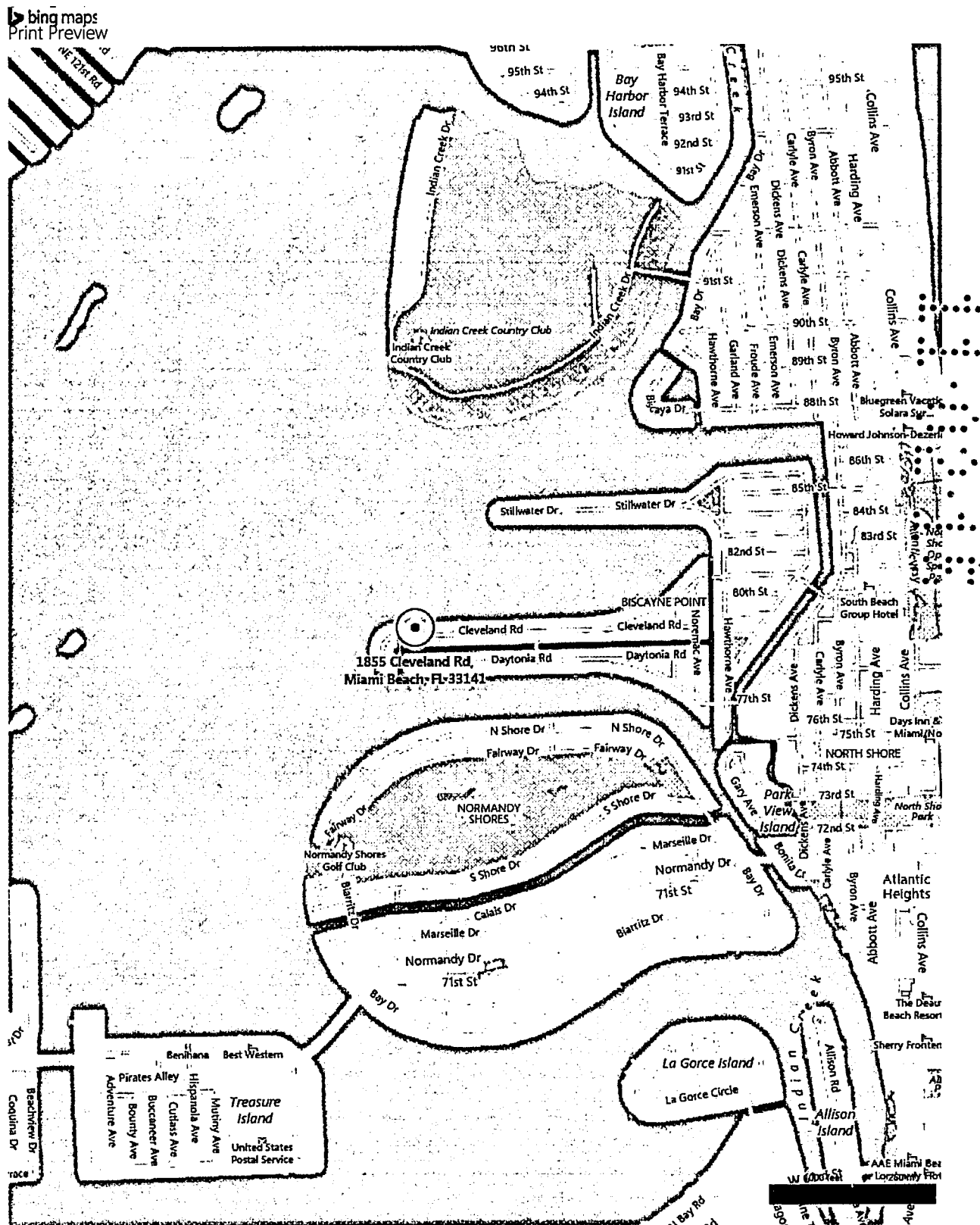
Field Sketch

Not to Scale...

1855 Cleveland Road

Miami, Florida





GENERAL NOTES

- Soil boring(s) on unmarked vacant property or existing structure(s) to be demolished should be considered preliminary with further boring(s) to be performed after building pad(s) are staked out.
- As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.
- It is not our field inspector's responsibility to supervise, schedule, or stop any phase of the project. His/her responsibility is limited by the duties stated in the contract.
- It is the client's responsibility to provide adequate safety for the site and personnel.

KEY CLASSIFICATIONS & SYMBOLS

Correlation of Penetration Resistance with Relative Density and Consistency

	Dynamic Cone Penetrometer (Penetrometer Resistance)	Standard Penetration (Hammer Blows)	Relative Density
Sands	0 - 10	0 - 3	Very Loose
	10 - 25	3 - 8	Loose
	25 - 45	8 - 15	Firm
	45 - 75	15 - 25	Very Firm
	75 - 120	25 - 40	Dense
	> 120	> 40	Very Dense
Silts & Clay	0 - 6	0 - 2	Very Soft
	6 - 15	2 - 5	Soft
	15 - 30	5 - 10	Firm
	30 - 45	10 - 15	Stiff
	45 - 90	15 - 30	Very Stiff
	90 - 150	30 - 50	Hard

Particle Size

Boulder	> 12in
Cobble	3 - 12in
Gravel	4.76mm - 3in
Sand	0.074mm - 4.76mm
Silt	0.005mm - 0.074mm
Clay	< 0.005mm

Modifiers

0 - 5%	Slightly Silty/Clayey
5 - 30%	Silty/Clayey
30 - 50%	Very Silty/Clayey
0 - 2%	Very Slight Trace
2 - 5%	Slight Trace
5 - 10%	Trace
10 - 15%	Little
15 - 30%	Some
> 30%	With

Rock Hardness Description

Soft	Rock core crumbles when handled.
Medium	Can break core with your hands.
Moderately Hard	Thin edges of rock core can be broken with fingers.
Hard	Thin edges of rock core cannot be broken with fingers.
Very Hard	Rock core rings when struck with a hammer.



LIMITATIONS OF LIABILITY

WARRANTY

We warrant that the services performed by Florida Engineering and Testing, Inc., are conducted in a manner consistent with the level of skill and care ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranties, expressed or implied, are made. While the services of Florida Engineering & Testing, Inc., are an integral and valuable part of the design and construction process, we do not warrant, guarantee, or insure the quality or completeness of services or satisfactory performance provided by other members of the construction process and/or the construction plans and specifications which we have not prepared, nor the ultimate performance of building site materials.

As mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

SUBSURFACE EXPLORATION

Subsurface exploration is normally accomplished by test borings. The soil boring log includes sampling information, description of the materials recovered, approximate depths of boundaries between soil and rock strata and groundwater data. The log represents conditions specifically at the location and time the boring was made. The boundaries between different soil strata are indicated at specific depths; however, these depths are in fact approximate and dependent upon the frequency of sampling. The transitions between soil stratum are often gradual. Water level readings are made at the time the boring was performed and can change with time, precipitation, canal levels, local well drawdown, and other factors.

Regardless of the thoroughness of a Geotechnical exploration there is always a possibility that conditions may be different from those of the test locations; therefore Florida Engineering & Testing, Inc., does not guarantee any subsoil condition surrounding the bore test holes. For a more accurate portrayal of subsurface conditions, the site contractor should perform tests pits. If different conditions are encountered, Florida Engineering & Testing, Inc., shall be notified to review the findings and make any recommendations as needed.

LABORATORY AND FIELD TESTS

Tests are performed in accordance with specific ASTM Standards unless otherwise indicated. All criteria included in a given ASTM Standard are not always required and performed. Each test report indicates the measurements and determinations actually made.

ANALYSIS AND RECOMMENDATIONS

The Geotechnical report is prepared primarily to aid in the design of site work and structural foundations. Although the information in the report is expected to be sufficient for these purposes, it is not intended to determine the cost of construction or to stand alone as construction specifications. In accepting this report the client understands that all data from the soil boring is intended for foundation analysis only and is not to be used for excavating, backfilling or pricing estimates. The site contractor must familiarize themselves with the job site conditions.

Report recommendations are based primarily on data from test borings made at the locations shown on the test boring reports. Soil variations may exist between borings and may not become evident until construction. If variations are then noted, Florida Engineering & Testing, Inc., should be contacted so that field conditions can be examined and recommendations revised if necessary.

The Geotechnical report states our understanding as to the location, dimensions, and structural features proposed of the site. Any significant changes in the nature, design, or location of the site improvements must be communicated to Florida Engineering & Testing, Inc., so that the Geotechnical analysis, conclusions, and recommendations can be appropriately adjusted.

CONSTRUCTION OBSERVATIONS

Construction observation and testing is an important element of Geotechnical services. The Geotechnical Engineer's Field Representative (Field Rep.) is the "owner's representative" observing the work of the contractor, performing tests, and reporting data from such tests and observations. The Geotechnical Engineer's Field Representative does not direct the contractor's construction means, methods, operations, or personnel. The Field Rep. does not interfere with the relationship between the owner and the contractor, and except as an observer, does not become a substitute owner on site. The Field Rep. is only collecting data for our Engineer to review.

The Field Rep. is responsible for his/her safety only, but has no responsibility for the safety of other personnel and/or the general public at the site. If the Field Rep. does not feel that the site is offering a safe environment for him/her, the Field Rep. will stop his/her observation/ testing until he/she deems the site is safe. The Field Rep. is an important member of a team whose responsibility is to observe the test and work being done and report to the owner whether that work is being carried out in general conformance with the plans and specifications.

OUTDOOR SWIMMING BARRIER
COMPLYING WITH 5TH EDITION (2014) R4501.17.1.1 THROUGH R4501.17.1.15

THE TOP OF THE BARRIER SHALL BE AT LEAST 48 INCHES (1219 MM) ABOVE GRADE MEASURED ON THE SIDE OF THE BARRIER WHICH FACES AWAY FROM THE SWIMMING POOL. THE MAXIMUM VERTICAL CLEARANCE BETWEEN GRADE AND THE BOTTOM OF THE BARRIER SHALL BE 2 INCHES (51 MM) MEASURED ON THE SIDE OF THE BARRIER WHICH FACES AWAY FROM THE SWIMMING POOL. WHERE THE TOP OF THE POOL STRUCTURE IS ABOVE GRADE THE BARRIER MAY BE AT GROUND LEVEL OR MOUNTED ON TOP OF THE POOL STRUCTURE. WHERE THE BARRIER IS MOUNTED ON TOP OF THE POOL STRUCTURE, THE MAXIMUM VERTICAL CLEARANCE BETWEEN THE TOP OF THE POOL STRUCTURE AND THE BOTTOM OF THE BARRIER SHALL BE 4 INCHES (102 MM).

THE BARRIER MAY NOT HAVE ANY GAPS, OPENINGS, INDENTATIONS, PROTRUSIONS, OR STRUCTURAL COMPONENTS THAT COULD ALLOW A YOUNG CHILD TO CRAWL UNDER, SQUEEZE THROUGH, OR CLIMB OVER THE BARRIER AS HEREIN DESCRIBED BELOW. ONE END OF A REMOVABLE CHILD BARRIER SHALL NOT BE REMOVABLE WITHOUT THE AID OF TOOLS. OPENINGS IN ANY BARRIER SHALL NOT ALLOW PASSAGE OF A 4-INCH-DIAMETER (102 MM) SPHERE.

SOLID BARRIERS WHICH DO NOT HAVE OPENINGS SHALL NOT CONTAIN INDENTATIONS OR PROTRUSIONS EXCEPT FOR NORMAL CONSTRUCTION TOLERANCES AND TOOLED MASONRY JOINTS.

WHERE THE BARRIER IS COMPOSED OF HORIZONTAL AND VERTICAL MEMBERS AND THE DISTANCE BETWEEN THE TOPS OF THE HORIZONTAL MEMBERS IS LESS THAN 45 INCHES (1143 MM), THE HORIZONTAL MEMBERS SHALL BE LOCATED ON THE SWIMMING POOL SIDE OF THE FENCE. SPACING BETWEEN VERTICAL MEMBERS SHALL NOT EXCEED 1-3/4 INCHES (44 MM) IN WIDTH. WHERE THERE ARE DECORATIVE CUTOUTS WITHIN VERTICAL MEMBERS, SPACING WITHIN THE CUTOUTS SHALL NOT EXCEED 1-3/4 INCHES (44 MM) IN WIDTH.

WHERE THE BARRIER IS COMPOSED OF HORIZONTAL AND VERTICAL MEMBERS AND THE DISTANCE BETWEEN THE TOPS OF THE HORIZONTAL MEMBERS IS 45 INCHES (1143 MM) OR MORE, SPACING BETWEEN VERTICAL MEMBERS SHALL NOT EXCEED 4 INCHES (102 MM). WHERE THERE ARE DECORATIVE CUTOUTS WITHIN VERTICAL MEMBERS, SPACING WITHIN THE CUTOUTS SHALL NOT EXCEED 1-3/4 INCHES (44 MM) IN WIDTH.

MAXIMUM MESH SIZE FOR CHAIN LINK FENCES SHALL BE A 2-1/4 INCH SQUARE (57 MM) UNLESS THE FENCE IS PROVIDED WITH SLATS FASTENED AT THE TOP OR BOTTOM WHICH REDUCE THE OPENINGS TO NO MORE THAN 1-3/4 INCHES (44 MM).

WHERE THE BARRIER IS COMPOSED OF DIAGONAL MEMBERS, THE MAXIMUM OPENING FORMED BY THE DIAGONAL MEMBERS SHALL BE NO MORE THAN 1-3/4 INCHES (44 MM).

ACCESS GATES, WHEN PROVIDED, SHALL BE SELF-CLOSING AND SHALL COMPLY WITH THE REQUIREMENTS OF SECTIONS R4501.17.1.1 THROUGH R4501.17.1.7 AND SHALL BE EQUIPPED WITH A SELF-LATCHING LOCKING DEVICE LOCATED ON THE POOL SIDE OF THE GATE. WHERE THE DEVICE RELEASE IS LOCATED NO LESS THAN 54 INCHES (1372 MM) FROM THE BOTTOM OF THE GATE, THE DEVICE RELEASE MECHANISM MAY BE LOCATED ON EITHER SIDE OF THE GATE AND SO PLACED THAT IT CANNOT BE REACHED BY A YOUNG CHILD OVER THE TOP OR THROUGH ANY OPENING OR GAP FROM THE OUTSIDE. GATES THAT PROVIDE ACCESS TO THE SWIMMING POOL MUST OPEN OUTWARD AWAY FROM THE POOL. THE GATES AND BARRIER SHALL HAVE NO OPENING GREATER THAN 1/2 INCH (12.7 MM) WITHIN 18 INCHES (457 MM) OF THE RELEASE MECHANISM.

WHERE A WALL OF A DWELLING SERVES AS PART OF THE BARRIER, ONE OF THE FOLLOWING SHALL APPLY:

ALL DOORS AND WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL SHALL BE EQUIPPED WITH AN EXIT ALARM COMPLYING WITH UL 2017 THAT HAS A MINIMUM SOUND PRESSURE RATING OF 85 DB A AT 10 FEET (3048 MM). THE EXIT ALARM SHALL PRODUCE A CONTINUOUS AUDIBLE WARNING WHEN THE DOOR AND ITS SCREEN ARE OPENED. THE ALARM SHALL SOUND IMMEDIATELY AFTER THE DOOR IS OPENED AND BE CAPABLE OF BEING HEARD THROUGHOUT THE HOUSE DURING NORMAL HOUSEHOLD ACTIVITIES. THE ALARM SHALL BE EQUIPPED WITH A MANUAL MEANS TO TEMPORARILY DEACTIVATE THE ALARM FOR A SINGLE OPENING. SUCH DEACTIVATION SHALL LAST NO MORE THAN 15 SECONDS. THE DEACTIVATION SWITCH SHALL BE LOCATED AT LEAST 54 INCHES (1372 MM) ABOVE THE THRESHOLD OF THE DOOR. SEPARATE ALARMS ARE NOT REQUIRED FOR EACH DOOR OR WINDOW IF SENSORS WIRE TO A CENTRAL ALARM SOUND WHEN CONTACT IS BROKEN AT ANY OPENING.

EXCEPTIONS:
A. SCREENED OR PROTECTED WINDOWS HAVING A BOTTOM SILL HEIGHT OF 48 INCHES (1219 MM) OR MORE MEASURED FROM THE INTERIOR FINISHED FLOOR AT THE POOL ACCESS LEVEL.
B. WINDOWS FACING THE POOL ON FLOOR ABOVE THE FIRST STORY.
C. SCREENED OR PROTECTED PASS-THROUGH KITCHEN WINDOWS 42 INCHES (1067 MM) OR HIGHER WITH A COUNTER BENEATH.

ALL DOORS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL MUST BE EQUIPPED WITH A SELF-CLOSING, SELF-LATCHING DEVICE WITH POSITIVE MECHANICAL LATCHING/LOCKING INSTALLED A MINIMUM OF 54 INCHES (1372 MM) ABOVE THE THRESHOLD, WHICH IS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

WHERE AN ABOVEGROUND POOL STRUCTURE IS USED AS A BARRIER OR WHERE THE BARRIER IS MOUNTED ON TOP OF THE POOL STRUCTURE, AND THE MEANS OF ACCESS IS A LADDER OR STEPS, THE LADDER OR STEPS EITHER SHALL BE CAPABLE OF BEING SECURED, LOCKED OR REMOVED TO PREVENT ACCESS, OR THE LADDER OR STEPS SHALL BE SURROUNDED BY A BARRIER WHICH MEETS THE REQUIREMENTS OF SECTIONS R4501.17.1.1 THROUGH R4501.17.1.9 AND SECTIONS R4501.17.1.12 THROUGH R4501.17.1.14. WHEN THE LADDER OR STEPS ARE SECURED, LOCKED OR REMOVED, ANY OPENING CREATED SHALL NOT ALLOW THE PASSAGE OF A 4-INCH-DIAMETER (102 MM) SPHERE.

STANDARD SCREEN ENCLOSURES WHICH MEET THE REQUIREMENTS OF SECTION R4501.17 MAY BE UTILIZED AS PART OF OR ALL OF THE "BARRIER" AND SHALL BE CONSIDERED A "NONDWELLING" WALL. REMOVABLE CHILD BARRIERS SHALL HAVE ONE END OF THE BARRIER NONREMOVABLE WITHOUT THE AID OF TOOLS.

THE BARRIER MUST BE PLACED AROUND THE PERIMETER OF THE POOL AND MUST BE SEPARATE FROM ANY FENCE, WALL, OR OTHER ENCLOSURE SURROUNDING THE YARD UNLESS THE FENCE, WALL, OR OTHER ENCLOSURE OR PORTION THEREOF IS SITUATED ON THE PERIMETER OF THE POOL, IS BEING USED AS PART OF THE BARRIER, AND MEETS THE BARRIER REQUIREMENTS OF THIS SECTION.

REMOVABLE CHILD BARRIERS MUST BE PLACED SUFFICIENTLY AWAY FROM THE WATER'S EDGE TO PREVENT A YOUNG CHILD OR MEDICALLY FRAIL ELDERLY PERSON WHO MAY MANAGE TO PENETRATE THE BARRIER FROM IMMEDIATELY FALLING INTO THE WATER. SUFFICIENTLY AWAY FROM THE WATER'S EDGE SHALL MEAN NO LESS THAN 20 INCHES (508 MM) FROM THE BARRIER TO THE WATER'S EDGE. DWELLING OR NONDWELLING WALLS INCLUDING SCREEN ENCLOSURES, WHEN USED AS PART OR ALL OF THE "BARRIER" AND MEETING THE OTHER BARRIER REQUIREMENTS, MAY BE AS CLOSE TO THE WATER'S EDGE AS PERMITTED BY THIS CODE.

A WALL OF A DWELLING MAY SERVE AS PART OF THE BARRIER IF IT DOES NOT CONTAIN ANY DOOR OR WINDOW THAT OPENS TO PROVIDE DIRECT ACCESS FROM THE HOME TO THE SWIMMING POOL.

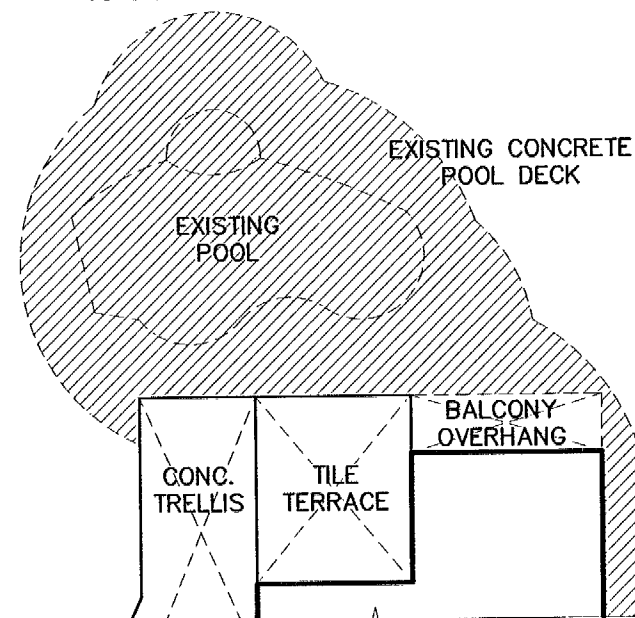
PROHIBITED LOCATIONS.

A BARRIER MAY NOT BE LOCATED IN A WAY THAT ALLOWS ANY PERMANENT STRUCTURE, EQUIPMENT, OR WINDOW THAT OPENS TO PROVIDE ACCESS FROM THE HOME TO THE SWIMMING POOL.

ADJACENT WATERWAYS, PERMANENT NATURAL OR PERMANENT MAN-MADE FEATURES SUCH AS BULKHEADS, CANALS, LAKES, NAVIGABLE WATERWAYS, ETC., ADJACENT TO A PUBLIC OR PRIVATE SWIMMING POOL OR SPA MAY BE PERMITTED AS A BARRIER WHEN APPROVED BY THE AUTHORITY HAVING JURISDICTION. WHEN EVALUATING SUCH BARRIER FEATURES, THE AUTHORITY MAY PERFORM ON-SITE INSPECTIONS AND REVIEW EVIDENCE SUCH AS SURVEYS, AERIAL PHOTOGRAPHS, WATER MANAGEMENT AGENCY STANDARDS AND SPECIFICATIONS, AND ANY OTHER SIMILAR DOCUMENTATION TO VERIFY, AT A MINIMUM, THE FOLLOWING:

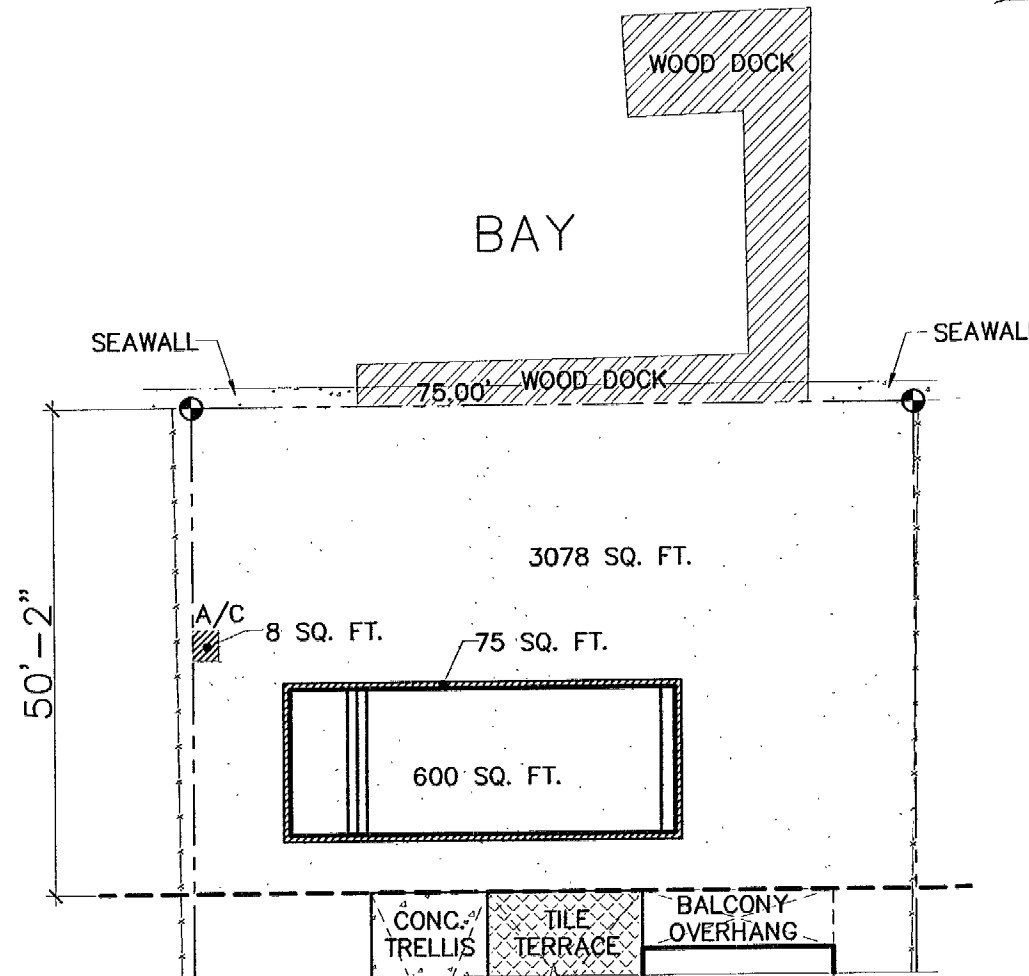
1. THE BARRIER FEATURE IS NOT SUBJECT TO NATURAL CHANGES, DEVIATIONS, OR ALTERATIONS AND IS CAPABLE OF PROVIDING AN EQUIVALENT LEVEL OF PROTECTION AS THAT PROVIDED BY THE CODE.
2. THE BARRIER FEATURE CLEARLY IMPEDES, PROHIBITS OR RESTRICTS ACCESS TO THE SWIMMING POOL OR SPA.

HATCH AREA DENOTE EXISTING POOL AND POOL DECK TO BE DEMOLISHED PRIOR NEW POOL CONSTRUCTION



DEMOLITION KEY PLAN

SCALE: 1"=20'-0"



REAR SETBACK CALCULATIONS

AREA:	3,761 SQ. FT.	100 %
IMPERVIOUS AREA:	83 SQ. FT.	2.21 %
PERVIOUS AREA:	3,678 SQ. FT.	97.79 %

REAR SITE CALCULATION

SCALE: 1"=20'-0"

**PUBLIC WORKS
PLAN REVIEW NOTICE**

Phone 305-673-7080 Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

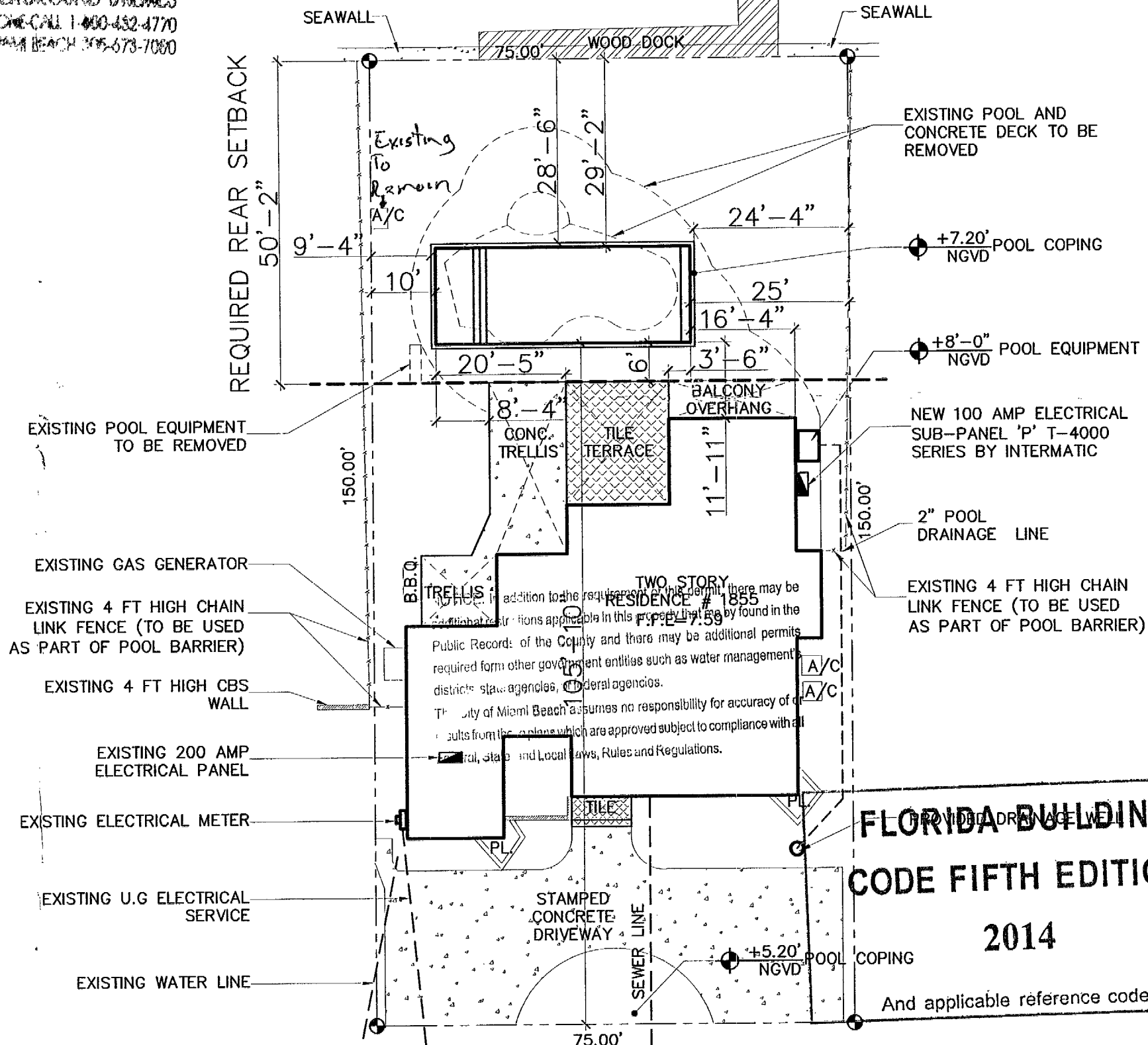
NOTES: - ALL WORK, MATERIALS AND EQUIPMENT ARE TO BE RETAINED INSIDE PRIVATE PROPERTY.
All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.
ALL CONSTRUCTION AND / OR USE OF EQUIPMENT IN THE RIGHT OF WAY AND / OR EASEMENTS WILL REQUIRE A SEPARATE PUBLIC WORKS DEPARTMENT PERMIT "PRIOR TO START OF CONSTRUCTION".

Permit Requirements: Proof of existing sidewalk/swale area conditions (pictures) and/or posting of sidewalk/roadway bonds (Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C. / C.O., or the release of bonds.)

Approved/Reviewed By:

PROVIDE ALARMS
ALL WINDOWS AND DOORS WITH ACCESS TO THE POOL ON ANY WALLS OF THE HOUSE USED AS PART OF THE BARRIER COMPLYING WITH 5TH EDITION (2014) FBC R45 01.17.1.9

48 HOURS PRIOR TO START OF CONSTRUCTION
CONTRACTOR SHALL CALL FOR LOCATION OF UNDERGROUND UTILITIES
SUNSHINE ONE CALL 1-800-452-4770
CITY OF MIAMI BEACH 305-673-7080



**FLORIDA BUILDING
CODE FIFTH EDITION
2014**
And applicable reference codes

CLEVELAND ROAD

SITE PLAN

SCALE: 1"=20'-0"

LEGAL:

BISCAYNE POINT PB 14-35
LOT 3 BLK 6
LOT SIZE 75,000 X 150
OR 11262-479 1181 1

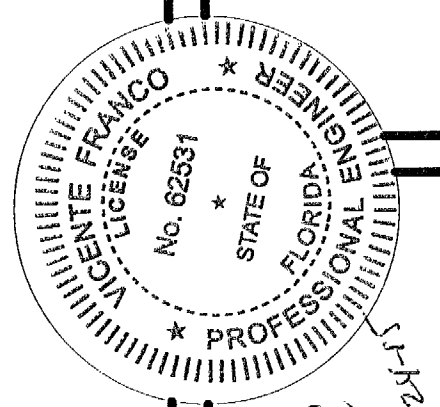
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
FLOOD:
PUBLIC WORKS:
STRUCTURAL:
ELEVATOR:
ROOFING:

CITY OF MIAMI BEACH
APPROVED BY THE CITY ENGINEER

11/02/15
11/02/15
11/02/15
11/02/15
11/02/15
11/02/15
11/02/15
11/02/15
11/02/15
11/02/15

DRAWING BY
G.I.A.
SWIMMING POOL
DESIGN, INC.
ROBERTO@GIAPOLDESIGN.COM
786-554-7804

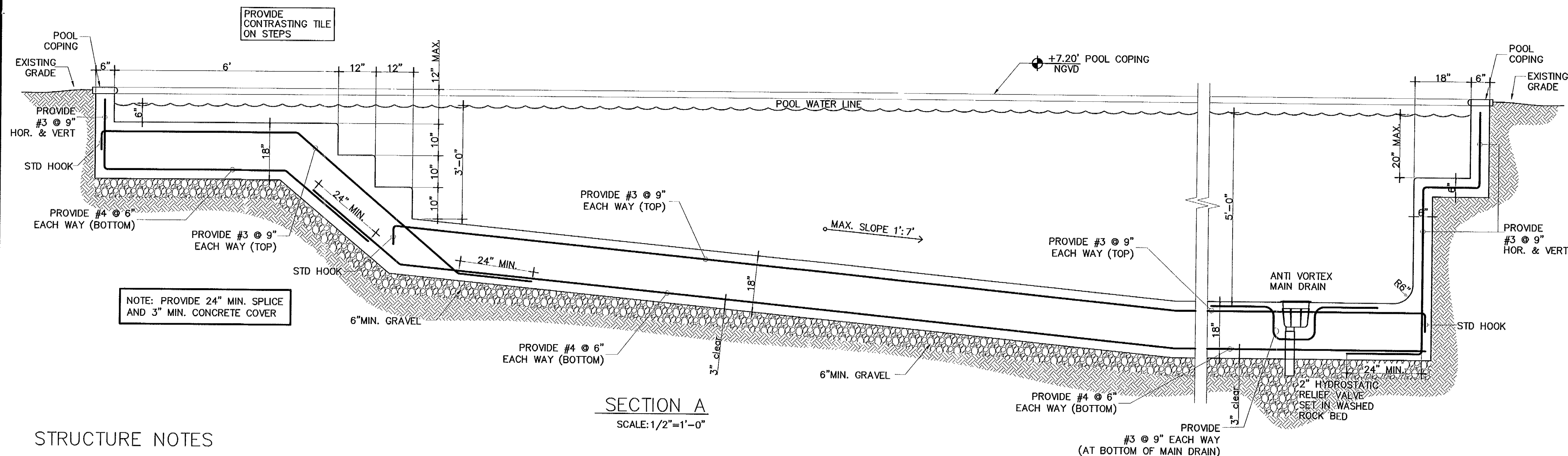
NEW SWIMMING POOL FOR:
1855 CLEVELAND ROAD, LLC
1855 CLEVELAND RD Miami Beach, FL 33141-1722



VICENTE FRANCO
P.E. 62531
10776 N.W. 84 LN #5
MIAMI, FL, 33178
(305) 305 5631

LEGAL:
BISCAYNE POINT PB 14-35
LOT 3 BLK 6
LOT SIZE 75,000 X 150
OR 11262-479 1181 1

SHEET:
1 OF 4



STRUCTURE NOTES

ALL WORK SHALL COMPLY WITH THE F.B.C. 5TH EDITION (2014), THE AMERICAN CONCRETE INSTITUTE ACI-318-14, ASCE-7-14 AND ALL OTHERS APPLICABLE CODES AND REGULATIONS.

- ALL POOL CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI.
- ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.
- ALL DECK CONCRETE (WHEN INSTALLED UNDER THESE PLANS) SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
- THE DESIGN OF THIS PROJECT HAS INCORPORATED A RATIONAL DESIGN APPROACH BASED ON ACCEPTED ENGINEERING PRINCIPALS.
- ALL REINFORCING STEEL SPLICES SHALL BE 18" IN LENGTH UNLESS OTHERWISE INDICATED ON THESE PLANS.
- ALL REINFORCING STEEL BENDS SHALL BE BY HAND WITHOUT THE APPLICATION OF HEAT TO THE STEEL.

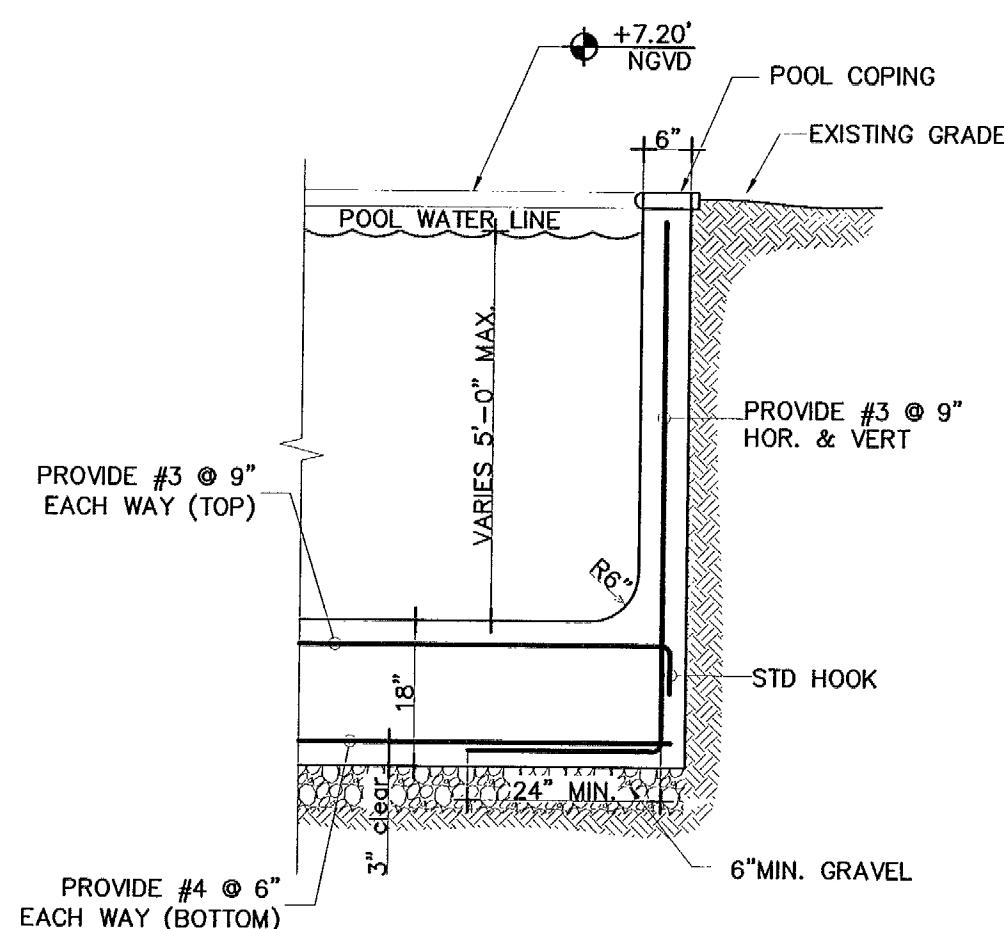
SOIL NOTE:

BASED ON AN "FLORIDA ENGINEERING & TESTING, INC." SOIL REPORT OF SITE IS OUR OPINION THAT THE PROPOSED STRUCTURE CAN BE DESIGNED FOR A SHALLOW FOUNDATION SYSTEM WITH A PERMISSIBLE SOIL BEARING PRESSURE NOT TO EXCEED 2,000 P.S.F. BEARING CAPACITY CERTIFICATION REQUIRES SATISFACTORY COMPLETION AND VERIFICATION OF ALL THE ABOVE FOUNDATION RECOMMENDATIONS. HOWEVER, IF DURING THE EXCAVATION CONDITION OTHERS THAN ABOVE ARE ENCOUNTERED THE ENGINEER MUST BE NOTIFIED. REFER TO SOIL REPORT ATTACHED.

HYDROSTATIC UPLIFT

ELEV. TOP OF POOL WALL	7.20'
DEPTH OF POOL	5.00'
ELEV. TOP OF MAINDRAIN	2.20'
FLOOD CRITERIA	8.00'
ELEV. TOP OF MAINDRAIN	2.20'
POOL IN FLOOD CRITERIA	5.80'
LESS 2'-0" HYDROST. VALVE	3.80'
SLAB THICKNESS REQUIRED	18"

NOTE: IF THE POOL IN FLOOD CRITERIA IS LESS THAN 6.7 FEET THEN THE FLOOR SLAB SHALL TAPER FROM 6" AT THE SHALLOW END TO THAT INDICATED ABOVE AS SLAB THICKNESS REQUIRED.

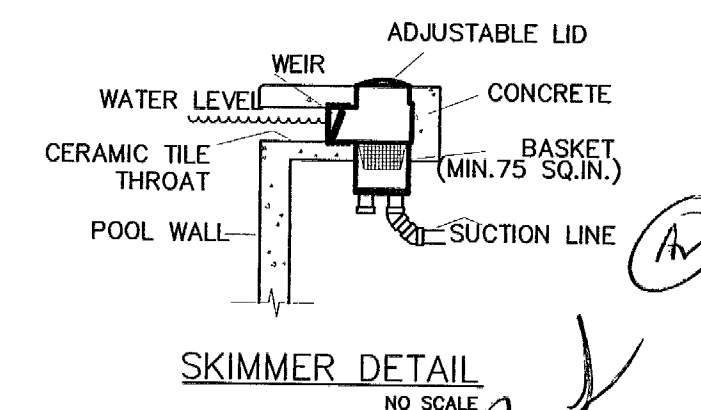
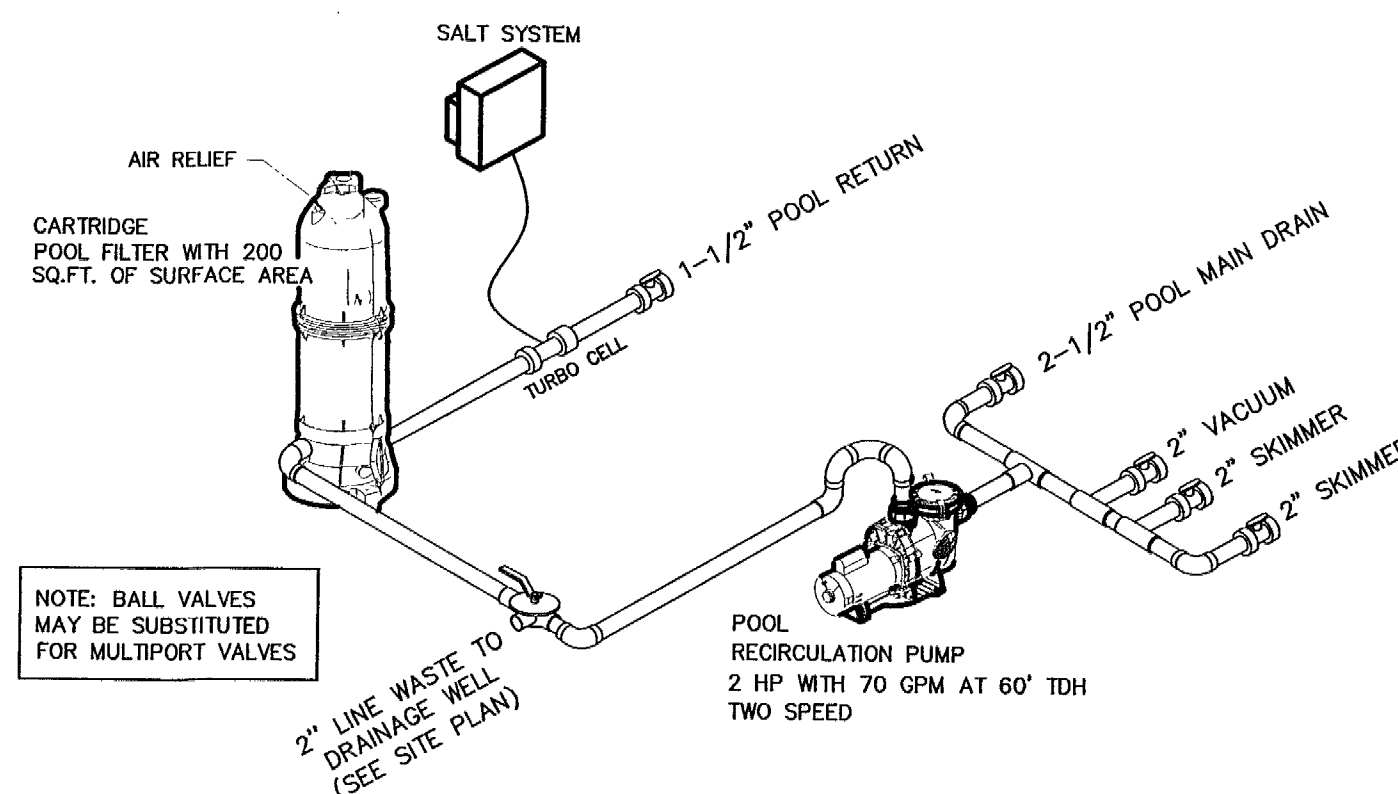
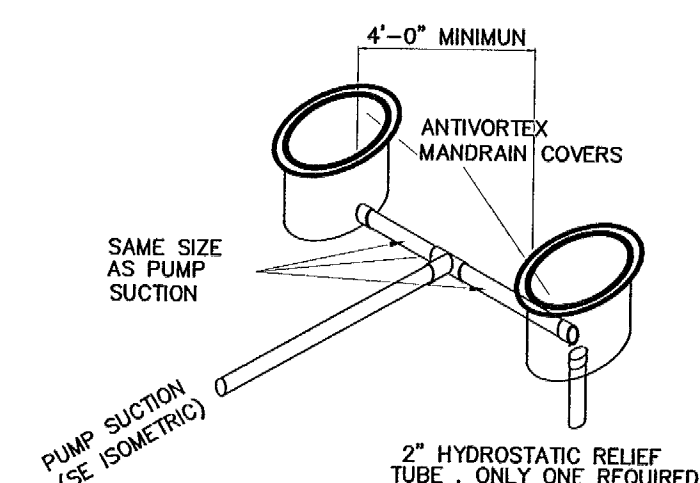


PLUMBING NOTES:

- ALL POOL EQUIPMENT PIPING SHALL BE SCHEDULE 40, PVC-PW, NON-THREADED, NSF APPROVED SUPPORTED CONTINUOUSLY ON GROUND OR ON MAXIMUM 4'-0" CENTERS WITH CLEVIS HANGERS.
- ALL SUCTION PIPING SHALL BE 2" DIAMETER AND ALL PRESSURE PIPING 1-1/2" DIAMETER UNLESS OTHERWISE NOTED.
- POOL WATER DISPOSAL SHALL BE IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT REQUIREMENTS.
- ANTI VORTEX MAIN DRAINS SHALL HAVE ITS PLATE SECURELY FASTENED WITH TAMPERPROOF SCREWS.
- POOL VACUUM SHALL HAVE SPRING LOADED CAP IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
- ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE-PLUMBING SECTION 309 AS IT PERTAINS TO BUOYANCY.
- THE WATER VELOCITY THROUGH ALL SUCTION PIPING SHALL BE LESS THAN 8 FEET PER SECOND.
- THE WATER VELOCITY THROUGH ALL PRESSURE PIPING SHALL BE LESS THAN 10 FEET PER SECOND.
- ALL PIPING SHALL BE SUITABLE FOR EXPOSURE TO ULTRA VIOLET RADIATION AND NORMAL OPERATING TEMPERATURES.

POOL DATA:

SURFACE AREA (SQ.FT.)	600.0
VOLUME (GALLONS)	15820.0
TURNOVER (HOURS)	2.64
PERIMETER (FEET)	110.0



DRAWING BY

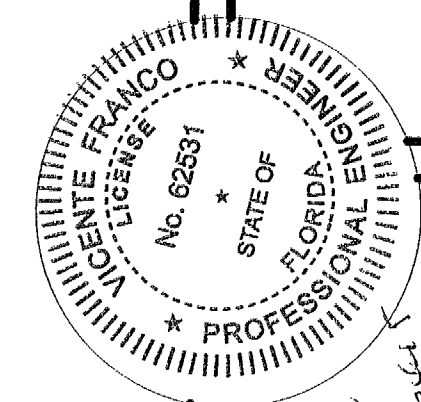
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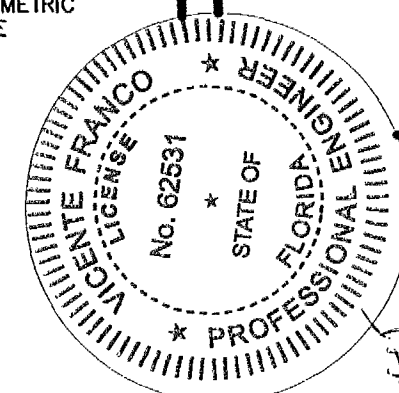
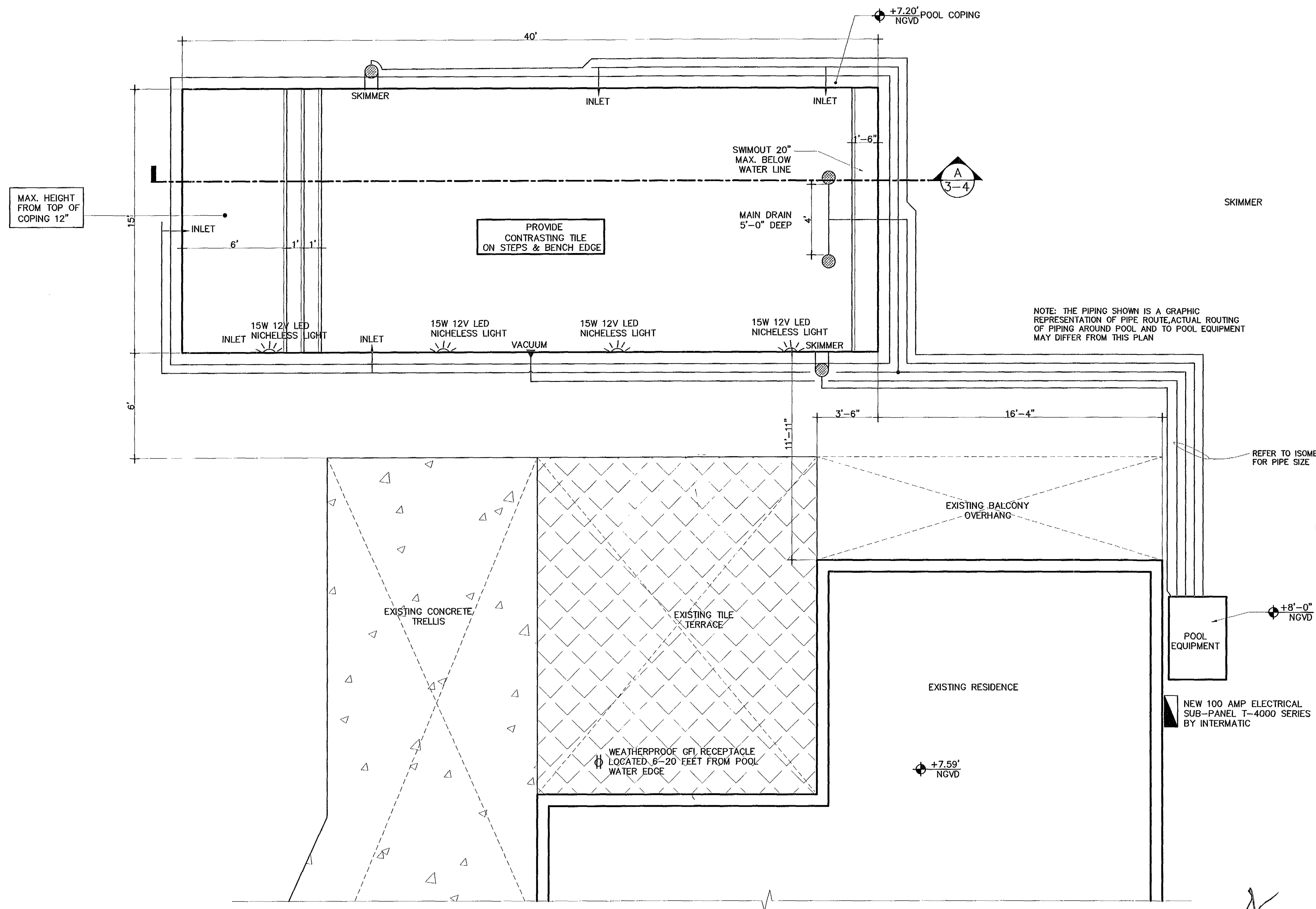
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LEGAL:
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LOT 3 BLK 6
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SHEET:
3 OF 4



VICENTE FRANCO
 P.E. 62531
 10776 N.W. 84 LN #5
 MIAMI, FL 33178
 (305) 305 5631

LEGAL:
 BISCAYNE POINT PB 14-35
 LOT 3 BLK 6
 LOT SIZE 75,000 X 150
 OR 11262-479 1181 1

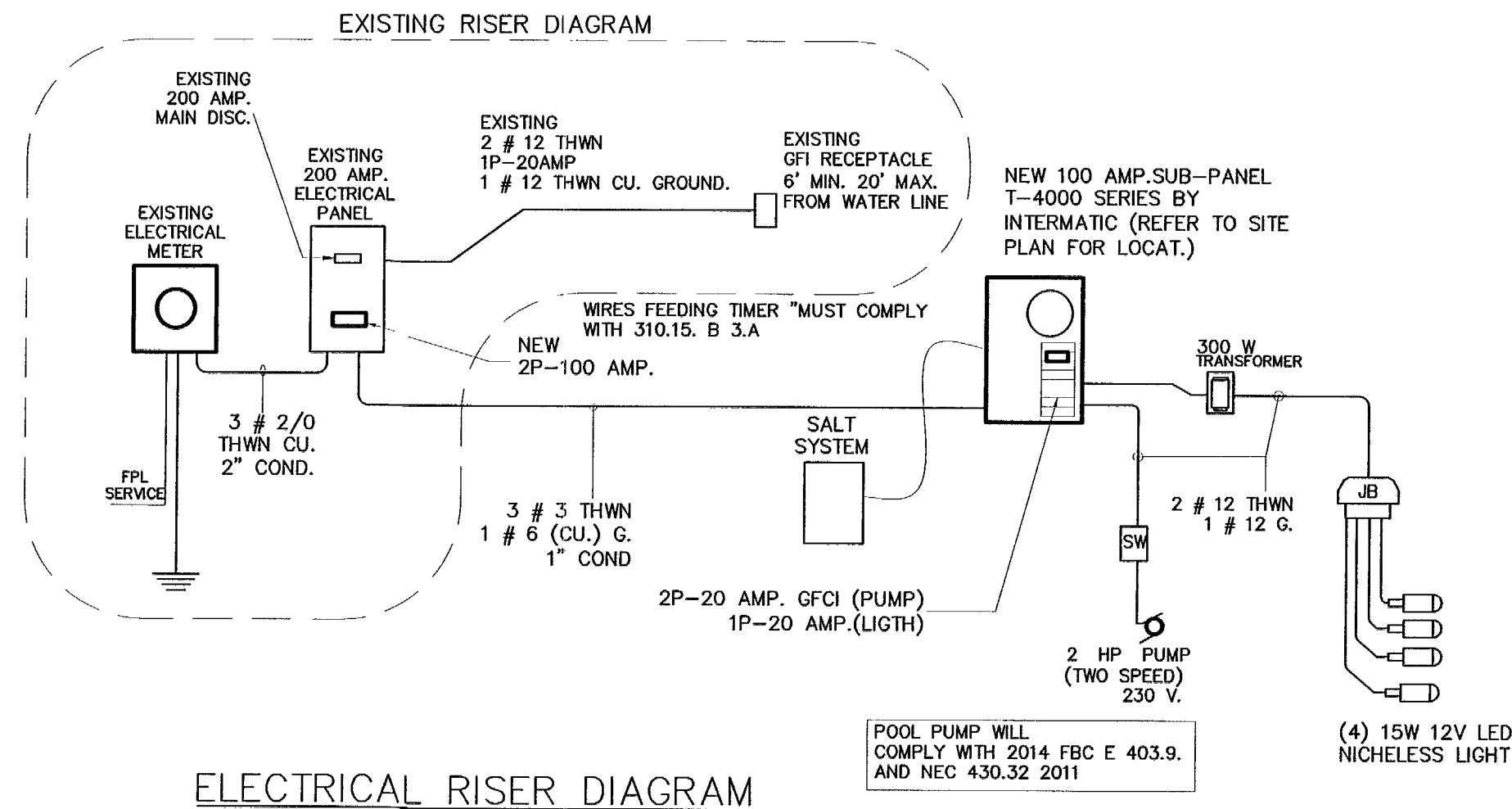
SHEET:
 2 OF 4

NOTE: CONTRACTOR SHALL VERIFY ALL SETBACKS FROM PROPERTY LINES AND STRUCTURES PRIOR TO EXCAVATION. SHOULD ANY SETBACKS BE LESS THAN THE MINIMUM REQUIREMENTS, EITHER BY OWNER OR BUILDING OFFICIAL, THE ENGINEER SHALL BE NOTIFIED.

-WARNING: TO EMPTY POOL AFTER CONSTRUCTION FOR REPAIRS OR ANY OTHER REASON, THE HYDROSTATIC UPLIFT PRESSURES BENEATH THE POOL MUST BE ELIMINATED TO PREVENT THE POOL FROM FLOATING UPWARD. THE OWNER MUST CONSULT AND POOL REPAIR CONTRACTOR EXPERIENCED IN ELIMINATING UPLIFT PRESSURES.

POOL PLAN
 SCALE: 1/4" = 1'-0"

Rm
 11/2/16

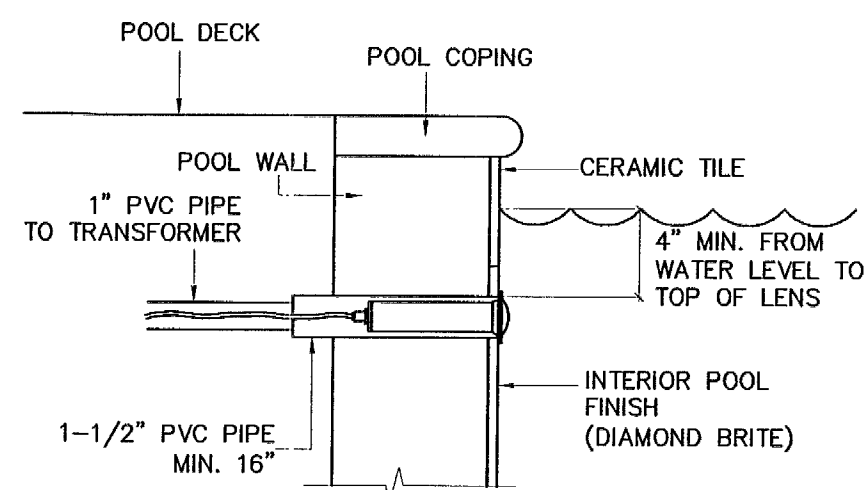


ELECTRICAL RISER DIAGRAM

NOTE: PROVIDE #8 BARE COPPER BOND WIRE FROM LIGHT TO POOL STEEL WHERE A CONCRETE DECK IS NOT PROVIDED, PROVIDED A #8 BARE COPPER BOND WIRE FROM THE POOL STEEL TO THE EQUIPMENT TO PANEL.
WHERE A CONCRETE SLAB IS PROVIDED, THE BOND WIRE SHALL BE CONNECTED FROM THE POOL STEEL TO REINFORCING MESH CONTINUOUS TO THE #5 REINFORCING BAR IN THE PERIMETER SLAB FOOTING. A BOND WIRE SHALL THEN BE CONNECTED FROM THE PERIMETER STEEL TO THE EQUIPMENT TO THE ELECTRICAL PANEL.

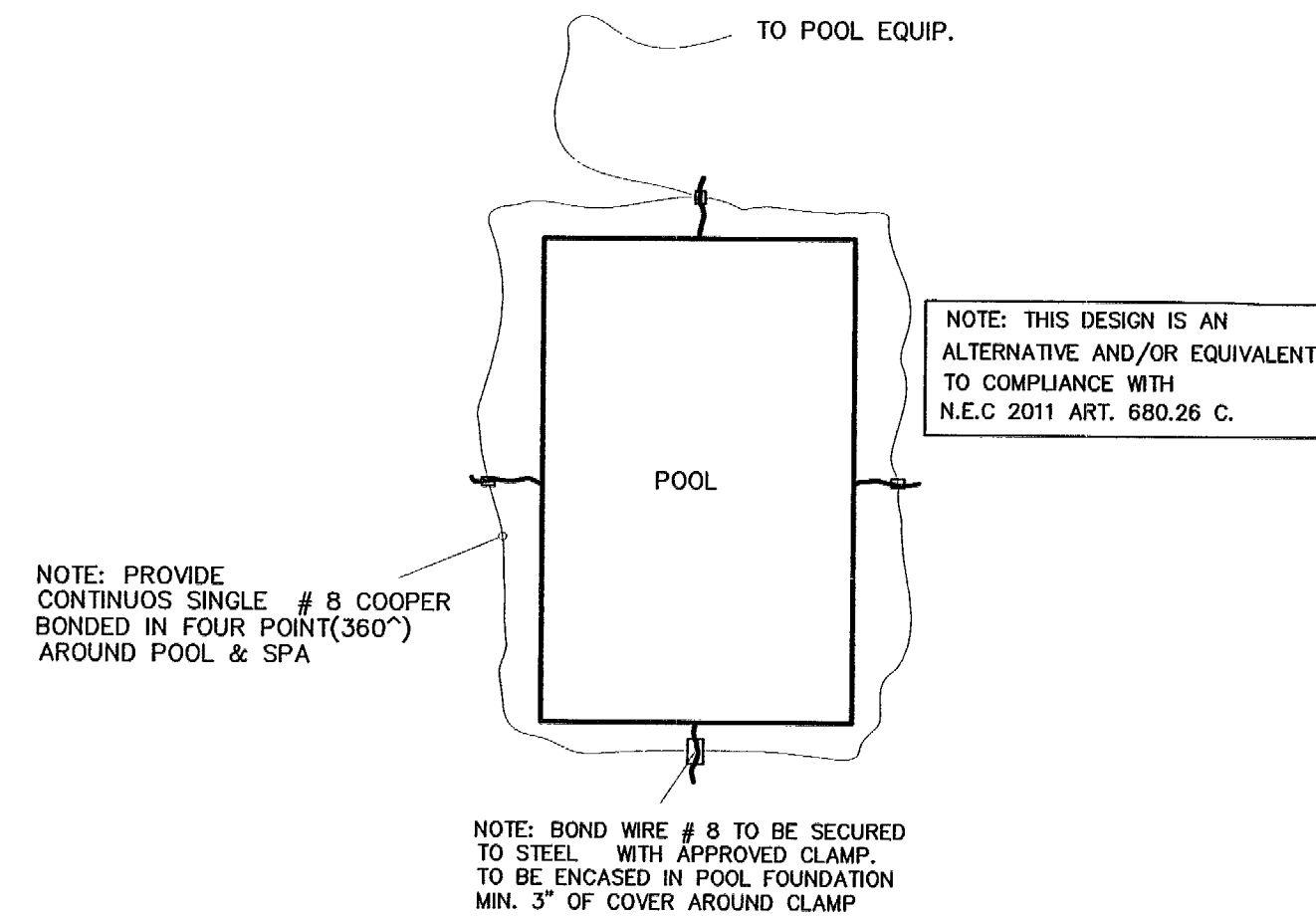
ELECTRICAL NOTES:

1. ALL POOL ELECTRICAL WORK SHALL BE ACCOMPLISHED IN COMPLIANCE WITH 5TH EDITION (2014) RESIDENCE BUILDING CODE.
2. ALL ELECTRICAL GROUNDING AND BONDING MUST BE CONFORM WITH THE FLORIDA BUILDING CODE.
3. NO OVERHEAD WIRING SHALL BE LOCATED WITHIN 10'.0" OF POOL'S WATER EDGE.
4. SHOULD THE ELECTRICAL RISER DIAGRAM NOT ACCURATELY DEPICT REQUIRED WORK, A REVISED DRAWING SHALL BE SUBMITTED AND APPROVED SHOWING EXPECTED AS BUILT CONFIGURATION WITH ADDITIONAL SERVICE AND LOAD CALCULATIONS, IF NECESSARY.
5. ALL ELECTRICAL EQUIPMENT NOT SUITABLE FOR EXPOSURE TO THE ELEMENTS SHALL BE ENCLOSED IN A WEATHERPROOF CONTAINER ALL PUMPS, HEATERS AND RELATED POOL EQUIPMENT SHOWN ON THESE PLANS ARE SATISFACTORY FOR EXPOSURE TO THE ELEMENTS.



NICHELESS LIGHT DETAIL
NO SCALE

SCOPE OF WORK UNDER THIS PERMIT ONLY INCLUDED SWIMMING POOL
NO OTHERS ELECTRICAL WORK CAN BE PERFORMED UNDER THIS PERMIT
ALL EXTERIOR INSTALLATION SHALL COMPLY WITH 110.11 110.20 AND 358.12



POOL BOND SCHEMATIC

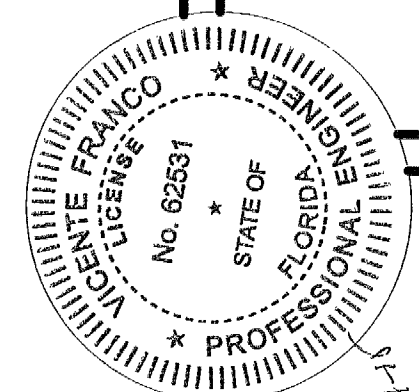
TYPE: T 40000 SERIES
SERVICE:
VOLTAGE: 1Ø, 120/240
MAINS: MAIN LUG

ELECTRICAL PANEL 'P'
A.I.C.S.: 10000

ENCLOSURE: NEMA
LOCATION: SEE PLAN
RATING 100 A.

AMPS	POLES	TOTAL V.A.	COND. SIZE	WIRE SIZE	DESCRIPTION	CKT No.	CKT No.	DESCRIPTION	WIRE SIZE	COND. SIZE	TOTAL V.A.	POLES	AMP
20	1	30	1/2"	12	POOL LIGTHS	1	2	POOL PUMP 2 HP	12	1/2"	2500	2	20
					SPARE	3	4						
					SPARE	5	6	SPARE					
					SPARE	7	8	SPARE					
					SPARE	9	10	SPARE					
					SPARE	11	12	SPARE					
					SPARE	13	14	SPARE					
					SPARE	15	16	SPARE					
					SPARE	17	18	SPARE					
30						2500							

PANEL 'P' TOTAL DEMAND LOAD 100%
TOTAL LOAD @ 100% ----- 2 530 W
2 530 W / 240 VOLT = -----10.54 AMP. @ 100%

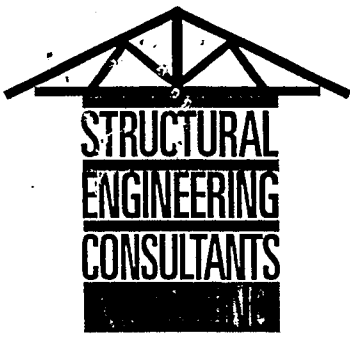


VICENTE FRANCO
P.E. 62531
10776 N W 84 LN #5
MIAMI, FL, 33178
(305) 305 5631

LEGAL:
BISCAYNE POINT PB 14-35
LOT 3 BLK 6
LOT SIZE 75,000 X 150
OR 11262-479 1181 1

SHEET:
4 OF 4

DM
1/2/15



WIND CALCULATIONS

INSTALLER:

SECURE WINDOWS & DOORS

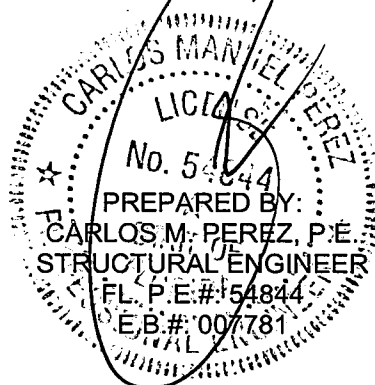
7855 N.W. 46TH STREET
MIAMI, FLORIDA 33166
PHONE: (305) 513-0705

PROJECT:

IMPACT WINDOW / DOOR INSTALLATION AT:

1855 CLEVELAND ROAD
MIAMI BEACH, FLORIDA
MIAMI-DADE COUNTY

OCTOBER 20, 2015



"YOUR ON-CALL ENGINEERING COMPANY"

9420 S.W. 112TH STREET, Miami, Florida 33176
Tel: (786) 242-1720 - Fax: (786) 242-4399

DESIGN CALCULATIONS

CODE: ASCE 7-10

WIND VELOCITY = 175 MPH

EXPOSURE CATEGORY = D

RISK CATEGORY = II

$$q_h = 0.00256 K_h K_{zt}$$

$$q_h = 0.00256 (1.097) (1.00) (0.85) (175)$$

$$q_h = 73.1 \text{ PSF}$$

$$P_{df} = [q_h (GC_p) \pm q_h (GC_{pi})] \times 0.60$$

* WHERE: $GC_{pi} = \pm 0.18$

$$K_d = 0.85 ; K_{zt} = 1.00$$

VELOCITY PRESS. EXPOSURE COEF. (K_h) = 1.097
(FROM TABLE 30.3-1)

ROOF SLOPE = 4 / 12

BLDG. "W" @ NARROWEST DIM. = 65'-6"

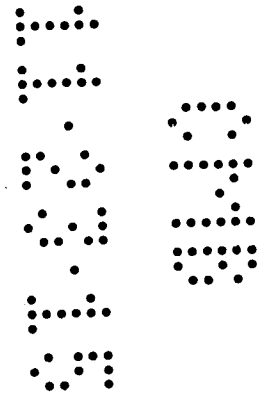
MEAN ROOF HEIGHT (h) = 21'-6"

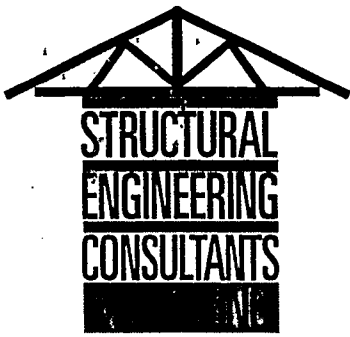
A (CORNER DISTANCE FOR ZONE 5):

$$A = 0.4 \times 21'-6" = 8'-7"$$

$$A = 0.1 \times 65'-6" = 6'-7"$$

	WINDOWS CRIT. AREA < 100 #		DOORS CRIT AREA = 100 #	
ZONE:	4	5	4	5
$GC_p(+)$	1.00	1.00	0.964	0.964
$GC_p(-)$	-1.10	-1.40	-1.064	-1.328
PRESSURE (+) PSF ALL	+52.0	+52.0	+50.2	+50.2
SUCTION (-) PSF ALL	-56.2	-69.3	-54.6	-66.2





October 20, 2015

City of Miami Beach
Building Department
Miami-Dade County, Florida

Contractor: Secure Windows & Doors
Job: Impact Window / Door Installation at:
1855 Cleveland Road, Miami Beach, Florida
RE: Window / Door Units Design Wind Pressures

Dear Sirs:

We hereby attest to the best of our knowledge, belief, and professional judgment that according to the above referenced building's configuration, height, and category that the maximum design pressures for exterior openings are:

WINDOWS:

Positive Design Pressure (Zone 4): 52.0 psf
Negative Design Pressure (Zone 4): 56.2 psf
Positive Design Pressure (Zone 5): 52.0 psf
Negative Design Pressure (Zone 5): 69.3 psf

DOORS:

Positive Design Pressure (Zone 4): 50.2 psf
Negative Design Pressure (Zone 4): 54.6 psf
Positive Design Pressure (Zone 5): 50.2 psf
Negative Design Pressure (Zone 5): 66.2 psf

NOTE: "Zone 5" pressures are applicable to openings that are within 6'-7" of building corners - Refer to calculations.

The above stated design pressures have been determined in accordance with ASCE 7-10 based on the following criteria:

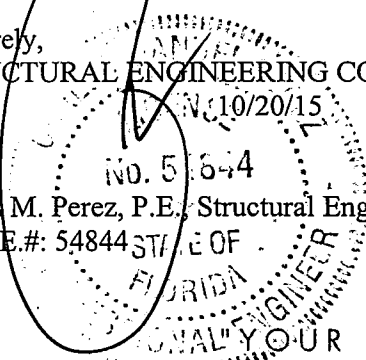
- * Risk Category: II
- * Exposure Category: D
- * Building Mean Roof Height: 21'-6"
- * Basic Wind Speed: 175 mph

Anchor spacings and installation of glazing / window and mullion systems to main structure must be in strict accordance with the Product Control N.O.A. and have not been independently verified by Structural Engineering Consultants, Inc.

If you should happen to have any questions or concerns regarding this or any other matter, please do not hesitate to contact us.

Sincerely,
STRUCTURAL ENGINEERING CONSULTANTS, INC. (E.B.#: 007781)

Carlos M. Perez, P.E., Structural Engineer
FL. P.E.#: 54844



YOUR ON-CALL ENGINEERING COMPANY"

B1600909

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
FLOOD:
PUBLIC WORKS:
STRUCTURAL:
ELEVATOR:
ROOFING:

Approved 12/22/15
A 11-23-15

11/23/15 *11/24/15*
A 11/23/15

JOB NAME :

RESIDENCE

1855 CLEVELAND ROAD

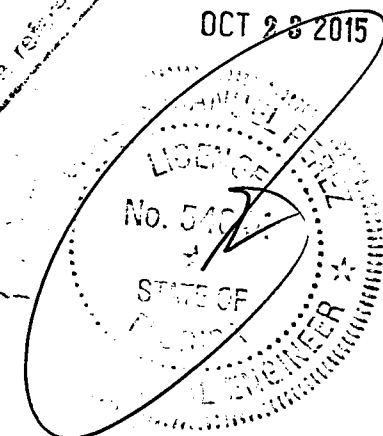
MIAMI BEACH, FL

NOTICE: In addition to the requirement of this permit there may be additional restrictions applicable to this property that may be found in the Public Records of this County and there may be additional permits required from other government entities such as water management's districts, state agencies, or federal agencies. The City of Miami Beach assumes no responsibility for accuracy of or results from these plans which are approved subject to compliance with all Federal, State, and Local Laws, Rules, and Regulations

FLORIDA BUILDING
CODE FIFTH EDITION
2011

STRUCTURAL ENGINEERING CONSULTANTS, INC.
CERTIFICATE OF AUTH. NO 0007781
CARLOS MANUEL PEREZ, P.E.
STRUCTURAL ENGINEER
9420 S.W. 112TH STREET, MIAMI, FL 33176
TEL 766-242-1720

OCT 28 2015



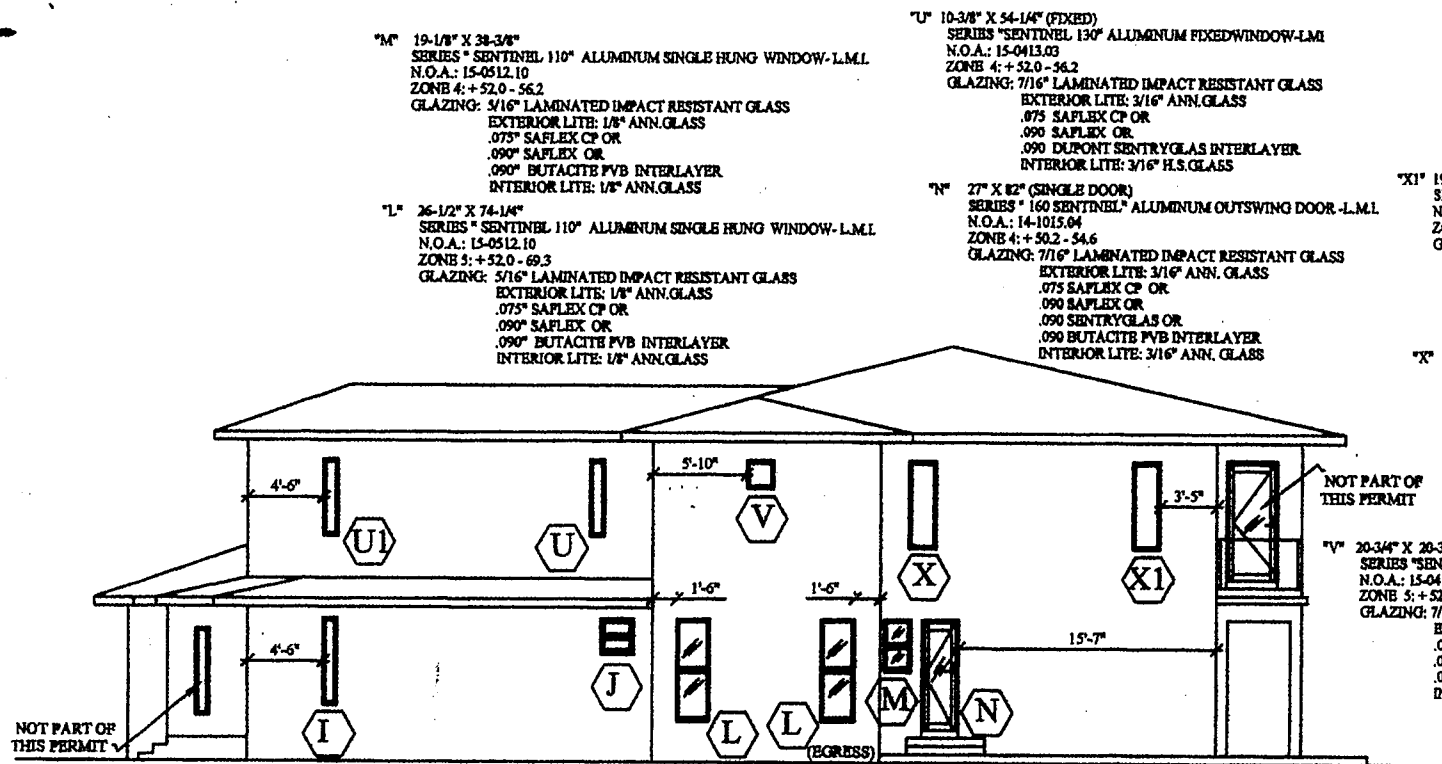
14-00000-1

APPROVED FOR PERMIT
THE FOLLOWING:

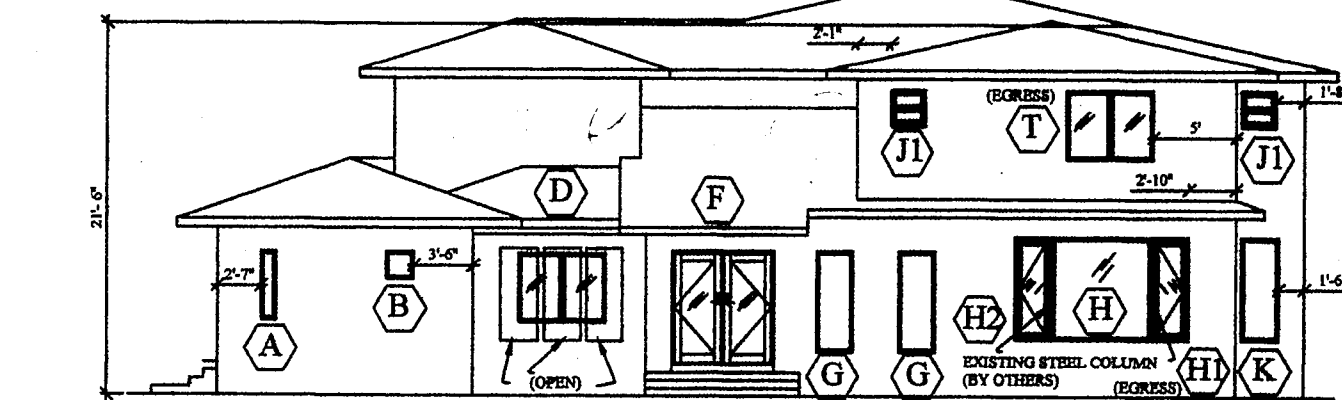
APPROVED
ELECTRICAL
MECHANICAL
TO PREVENT
CODE
FLOOR

THE FOLLOWING
IS A SUMMARY
OF THE
WORK
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14-00000-1



RIGHT ELEVATION



FRONT ELEVATION

"A" 10-3/4" X 49-1/2" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 5: +52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

"B" 19" X 14-1/2" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 5: +52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

"J1" 26-1/2" X 26"
SERIES "SENTINEL 110" ALUMINUM SINGLE HUNG WINDOW-L.M.I.
N.O.A.: 15-0512.10
ZONE 5: +52.0 - 69.3
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 BUTACITE PVB INTERLAYER
INTERIOR LITE: 1/8" ANN. GLASS

"D" 62" X 49-3/4" (FIXED)
SERIES "SENTINEL 120" ALUMINUM HORIZONTAL SLIDING WINDOW-L.M.I.
N.O.A.: 15-0512.05
ZONE 4: +52.0 - 56.2
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 SENTRYGLAS INTERLAYER
INTERIOR LITE: 1/8" ANN. GLASS

NOTE: STANDARD MEETING RAIL MAY BE USED FOR THIS INSTALLATION.

"F" 72" X 80" (DOUBLE DOOR)
SERIES "160 SENTINEL" ALUMINUM OUTSWING DOOR-L.M.I.
N.O.A.: 14-1015.04
ZONE 4: +50.2 - 54.6
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 SENTRYGLAS OR
.090 BUTACITE PVB INTERLAYER
INTERIOR LITE: 3/16" ANN. GLASS

"H"

OVERALL FRAME SIZE: 72"(W) X 74-1/4"(H) (1-LITE)
SERIES "410" ALUMINUM FIXED WINDOW -
LARGE MISSILE IMPACT
N.O.A.: 15-0512.12
ZONE 5: +52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S. GLASS
.075 SAFLEX CP OR .090 SENTRYGLAS
INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

NOTE: ANCHOR OPTION 1 OR 2 MAY BE USED FOR THIS INSTALLATION.

"U" 10-3/8" X 54-1/4" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 4: +52.0 - 56.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

"V" 27" X 82" (SINGLE DOOR)
SERIES "160 SENTINEL" ALUMINUM OUTSWING DOOR-L.M.I.
N.O.A.: 14-1015.04
ZONE 4: +50.2 - 54.6
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 SENTRYGLAS OR
.090 BUTACITE PVB INTERLAYER
INTERIOR LITE: 3/16" ANN. GLASS

"X1" 19-1/8" X 63" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 5: +52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

"X" 19-1/8" X 63" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 4: +52.0 - 56.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

"V1" 20-3/4" X 26-3/4" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 5: +52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

"H1" 26-1/2" X 74-1/4" (FIXED)
SERIES 238 ALUMINUM CASEMENT WINDOW-L.M.I.
N.O.A.: 15-0512.19
ZONE 5: +52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
.090 SAFLEX OR
.075 SAFLEX CP OR
.090 SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" ANN. GLASS

"H2" 26-1/2" X 74-1/4" (FIXED)
SERIES 238 ALUMINUM CASEMENT WINDOW-L.M.I.
N.O.A.: 15-0512.19
ZONE 4: +52.0 - 56.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
.090 SAFLEX OR
.075 SAFLEX CP OR
.090 SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" ANN. GLASS

"G" 27" X 73" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 4: +52.0 - 56.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

"K" 26-1/2" X 74-1/4" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 5: +52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

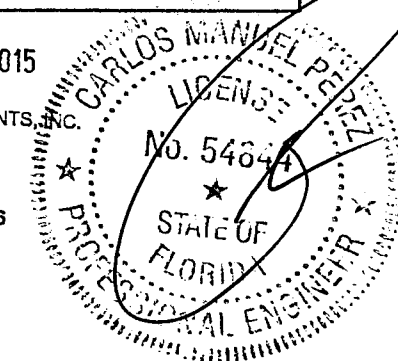
"T" 61-3/4" X 49" (FIXED)
SERIES "SENTINEL 120" ALUMINUM HORIZONTAL SLIDING WINDOW-L.M.I.
N.O.A.: 15-0512.05
ZONE 5: +52.0 - 69.3
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" ANN. GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 SENTRYGLAS INTERLAYER
INTERIOR LITE: 1/8" ANN. GLASS

NOTE: HEAVY DUTY MEETING RAIL IS REQUIRED FOR THIS INSTALLATION.

- NOTE 1: WINDOW FRAMES/MULLION ANCHORAGE TO MAIN STRUCTURE SHALL BE IN STRICT ACCORDANCE WITH THE UNIT'S NOTICE OF ACCEPTANCE-REFER TO PRODUCTS CONTROLS.
- NOTE 2: ONLY THE OPENINGS THAT ARE IDENTIFIED WITH THEIR PRODUCTS CONTROL N.O.A. DESIGN PRESSURES, AND SIZE ARE PART OF THIS PERMIT. ALL OTHER OPENINGS ARE NOT PART OF THIS PERMIT.
- NOTE 3: THE MAIN WIND FORCE RESISTING SYSTEM OF THE STRUCTURE (BEAMS, COLUMNS, WALLS, FRAMING, ETC) SHALL BE DESIGNED TO WITHSTAND THE LOADS POSED BY THE GLAZING. NO CALCULATIONS HAVE BEEN PERFORMED TO VERIFY THEIR ADEQUACY. STRUCTURAL ENHANCEMENTS/ALTERATIONS OF EXISTING OPENINGS ARE BEYOND THE SCOPE OF THIS PROJECT AND, IF NECESSARY, SHALL BE DONE BY OTHERS.
- NOTE 4: ALL EGRESS WINDOWS SHALL HAVE A SILL HEIGHT NOT TO EXCEED 44" ABOVE THE FINISHED FLOOR.
- NOTE 5: ALL WINDOWS SHALL NOT HAVE A SILL HEIGHT LESS THAN 36" ABOVE THE FINISHED FLOOR, UNLESS A CODE APPROVED PROTECTIVE BARRIER IS PROVIDED.
- NOTE 6: WINDOW COMPANY SHALL FIELD VERIFY ALL ACTUAL FIELD DIMENSIONS PRIOR TO FABRICATION.
- NOTE 7: ALL WINDOW OPENINGS IDENTIFIED AS EGRESS SHALL BE UNOBSTRUCTED AND SHALL HAVE A MINIMUM NET CLEAR OPENING HEIGHT OF 24", A NET CLEAR OPENING WIDTH OF 20", AND A MINIMUM NET CLEAR OPENING AREA OF 5.7 SQ. FT. (5.0 SQ. FT. FOR GRADE LEVEL WINDOWS).
- NOTE 8: IT IS THE EXCLUSIVE RESPONSIBILITY OF THE WINDOW COMPANY TO PROVIDE PRODUCTS THAT MEET OR EXCEED THE ENERGY VALUES MANDATED BY THE STATE OF FLORIDA. COMPLIANCE WITH ENERGY VALUES IS BEYOND THE SCOPE OF THIS ENGINEERING REPORT.

NOV 03 2015

STRUCTURAL ENGINEERING CONSULTANTS, INC.
CERTIFICATE OF AUTH. NO 0007781
CARLOS MANUEL PEREZ, P.E.
STRUCTURAL ENGINEER
9420 S.W. 112TH STREET, MIAMI, FL 33176
TEL 766-242-1720



REVISION:

ARCHITECT: RESIDENCE
PROJECT: 1855 CLEVELAND ROAD
LOCATION: MIAMI BEACH, FL.

DATE: 10/23/15
SCALE: 3/16" = 1'
DWG. BY: M.R.Z.
JOB #: 10-2015

2 of 3

"R" 37-1/4" X 78" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 5: +52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

"T" 72" X 86-1/2" (CCK)
SERIES "SENTINEL 150" ALUMINUM SLIDING GLASS DOOR-L.M.I.
N.O.A.: 14-0627.15
ZONE 5: +50.2 - 66.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS
NOTE 1: INTERLOCKS WITH REINFORCEMENT ARE REQUIRED FOR THIS INSTALLATION.
NOTE 2: STANDARD SILL WITHOUT RISER MAY BE USED FOR THIS INSTALLATION.
NOTE 3: PROVIDE CLUSTER ANCHORS AT STYLE/INTERLOCK ENDS AT HEAD & SILL AS PER THE REQUIREMENTS STATED ON TABLE ON SHEET 8 OF 16 OF N.O.A. THAT MEET OR EXCEED THE DESIGN WIND PRESSURES.

"C" 53-1/8" X 36-3/8" (CCK)
SERIES "SENTINEL 120" ALUMINUM HORIZONTAL SLIDING WINDOW-L.M.I.
N.O.A.: 15-0512.05
ZONE 4: +52.0 - 56.2
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" ANN. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 SENTRYGLAS INTERLAYER
INTERIOR LITE: 1/8" ANN. GLASS

NOTE: STANDARD MEETING RAIL MAY BE USED FOR THIS INSTALLATION.

"C1" 53-1/8" X 36-3/8" (CCK)
SERIES "SENTINEL 120" ALUMINUM HORIZONTAL SLIDING WINDOW-L.M.I.
N.O.A.: 15-0512.05
ZONE 5: +52.0 - 69.3
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" H.S. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 SENTRYGLAS INTERLAYER
INTERIOR LITE: 1/8" H.S. GLASS

NOTE: HEAVY DUTY MEETING RAIL IS REQUIRED FOR THIS INSTALLATION.

"P" 26-1/2" X 26"
SERIES "SENTINEL 110" ALUMINUM SINGLE HUNG WINDOW-L.M.I.
N.O.A.: 15-0512.10
ZONE 4: +52.0 - 56.2
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" ANN. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 BUTACITE FVS INTERLAYER
INTERIOR LITE: 1/8" ANN. GLASS

"AA" 37" X 26" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 4: +52.0 - 56.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

"BB" 37" X 26" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 5: +52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

"GG" 35" X 79-3/4" (SINGLE DOOR)
SERIES "160 SENTINEL" ALUMINUM OUTSWING DOOR-L.M.I.
N.O.A.: 14-0151.04
ZONE 5: +50.2 - 66.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 SENTRYGLAS OR
090 BUTACITE FVS INTERLAYER
INTERIOR LITE: 3/16" ANN. GLASS

"Z" OVERALL FRAME SIZE: 145" X 78"
(2) 74" X 44" (CCK) (TOP)
SERIES "SENTINEL 120" ALUMINUM HORIZONTAL SLIDING WINDOW-L.M.I.
N.O.A.: 15-0512.05
ZONE 5: +52.0 - 69.3
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" H.S. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 SENTRYGLAS INTERLAYER
INTERIOR LITE: 1/8" H.S. GLASS
NOTE 1: HEAVY DUTY MEETING RAIL IS REQUIRED FOR THIS INSTALLATION.

(2) 74" X 35" (FIXED) (BOTTOM)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 5: +52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS
NOTE 2: WINDOW UNITS SHALL BE MULLED TOGETHER USING:
1" X 4" X 1/8" AND 2" X 6" X 1/8" ALUMINUM TUBE MULLIONS
BY CCK N.O.A.: 15-0606.06 REFER TO ELEVATION FOR MULLION PLACEMENTS

"EE" 111" X 30-5/8" (CCK) (1/2-1/2-1/2 CONFIGURATION)
SERIES "SENTINEL 120" ALUMINUM HORIZONTAL SLIDING WINDOW-L.M.I.
N.O.A.: 15-0512.05
ZONE 5: +52.0 - 69.3
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" H.S. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 SENTRYGLAS INTERLAYER
INTERIOR LITE: 1/8" H.S. GLASS
NOTE: HEAVY DUTY MEETING RAIL IS REQUIRED FOR THIS INSTALLATION.

"Y" 143-3/4" X 80" (CCK)
SERIES "SENTINEL 150" ALUMINUM SLIDING GLASS DOOR-L.M.I.
N.O.A.: 14-0627.15
ZONE 5: +50.2 - 66.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS
NOTE 1: INTERLOCKS WITH REINFORCEMENT ARE REQUIRED FOR THIS INSTALLATION.
NOTE 2: STANDARD SILL WITHOUT RISER MAY BE USED FOR THIS INSTALLATION.
NOTE 3: PROVIDE CLUSTER ANCHORS AT STYLE/INTERLOCK ENDS AT HEAD & SILL AS PER THE REQUIREMENTS STATED ON TABLE ON SHEET 8 OF 16 OF N.O.A. THAT MEET OR EXCEED THE DESIGN WIND PRESSURES.

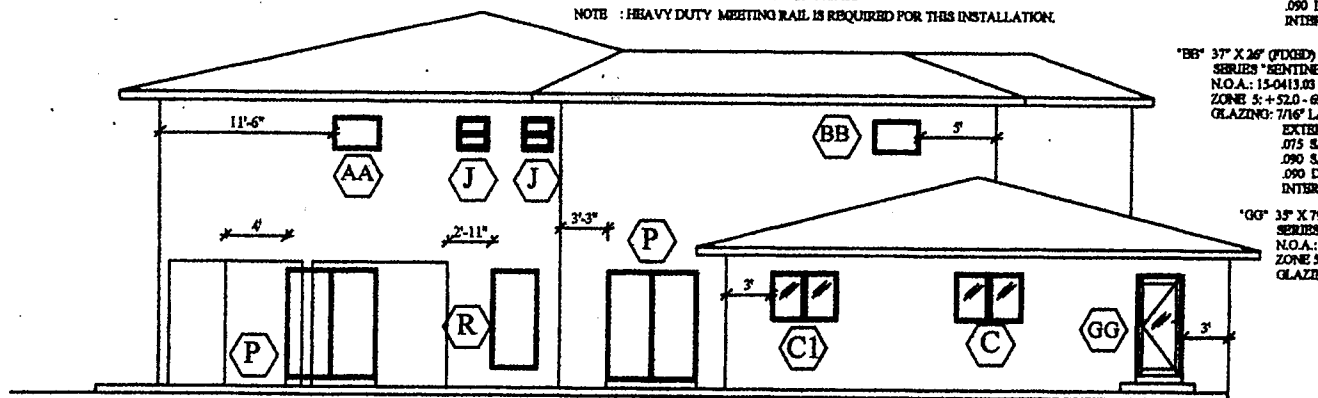
"Q" 143-3/4" X 86-1/2" (CCK)
SERIES "SENTINEL 150" ALUMINUM SLIDING GLASS DOOR-L.M.I.
N.O.A.: 14-0627.15
ZONE 5: +50.2 - 66.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS
NOTE 1: INTERLOCKS WITH REINFORCEMENT ARE REQUIRED FOR THIS INSTALLATION.
NOTE 2: STANDARD SILL WITHOUT RISER MAY BE USED FOR THIS INSTALLATION.
NOTE 3: PROVIDE CLUSTER ANCHORS AT STYLE/INTERLOCK ENDS AT HEAD & SILL AS PER THE REQUIREMENTS STATED ON TABLE ON SHEET 8 OF 16 OF N.O.A. THAT MEET OR EXCEED THE DESIGN WIND PRESSURES.

"T" 56" X 80" (CCK)
SERIES "SENTINEL 150" ALUMINUM SLIDING GLASS DOOR-L.M.I.
N.O.A.: 14-0627.15
ZONE 5: +50.2 - 66.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS
NOTE 1: INTERLOCKS WITH REINFORCEMENT ARE REQUIRED FOR THIS INSTALLATION.
NOTE 2: STANDARD SILL WITHOUT RISER MAY BE USED FOR THIS INSTALLATION.
NOTE 3: PROVIDE CLUSTER ANCHORS AT STYLE/INTERLOCK ENDS AT HEAD & SILL AS PER THE REQUIREMENTS STATED ON TABLE ON SHEET 8 OF 16 OF N.O.A. THAT MEET OR EXCEED THE DESIGN WIND PRESSURES.

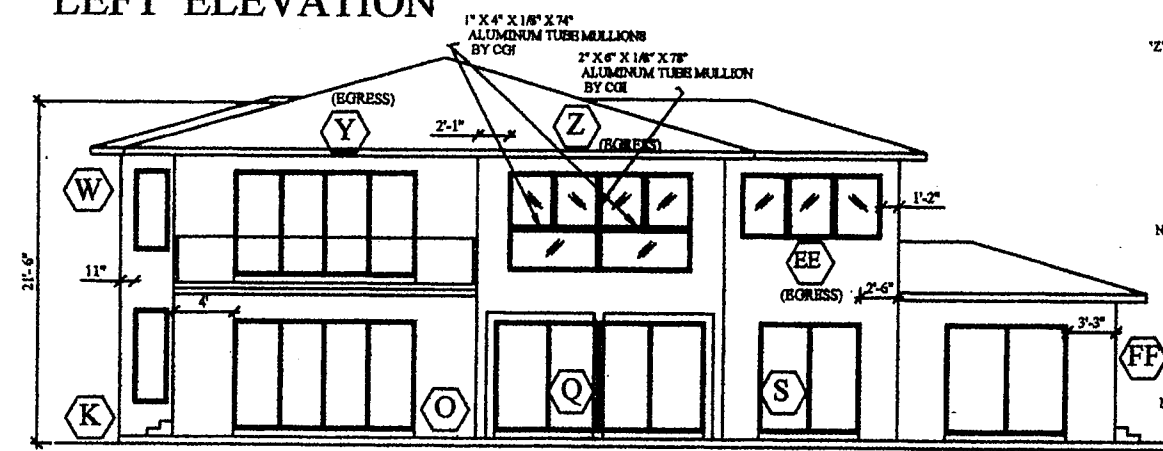
"K" 26-1/2" X 74-1/4" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 5: +52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS
NOTE 1: INTERLOCKS WITH REINFORCEMENT ARE REQUIRED FOR THIS INSTALLATION.
NOTE 2: STANDARD SILL WITHOUT RISER MAY BE USED FOR THIS INSTALLATION.
NOTE 3: PROVIDE CLUSTER ANCHORS AT STYLE/INTERLOCK ENDS AT HEAD & SILL AS PER THE REQUIREMENTS STATED ON TABLE ON SHEET 8 OF 16 OF N.O.A. THAT MEET OR EXCEED THE DESIGN WIND PRESSURES.

"S" 80" X 86-1/2" (CCK)
SERIES "SENTINEL 150" ALUMINUM SLIDING GLASS DOOR-L.M.I.
N.O.A.: 14-0627.15
ZONE 5: +50.2 - 66.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS
NOTE 1: INTERLOCKS WITH REINFORCEMENT ARE REQUIRED FOR THIS INSTALLATION.
NOTE 2: STANDARD SILL WITHOUT RISER MAY BE USED FOR THIS INSTALLATION.
NOTE 3: PROVIDE CLUSTER ANCHORS AT STYLE/INTERLOCK ENDS AT HEAD & SILL AS PER THE REQUIREMENTS STATED ON TABLE ON SHEET 8 OF 16 OF N.O.A. THAT MEET OR EXCEED THE DESIGN WIND PRESSURES.

"W" 26-1/2" X 63" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXED WINDOW-L.M.I.
N.O.A.: 15-0413.03
ZONE 5: +52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN. GLASS
075 SAFLEX CP OR
090 SAFLEX OR
090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S. GLASS



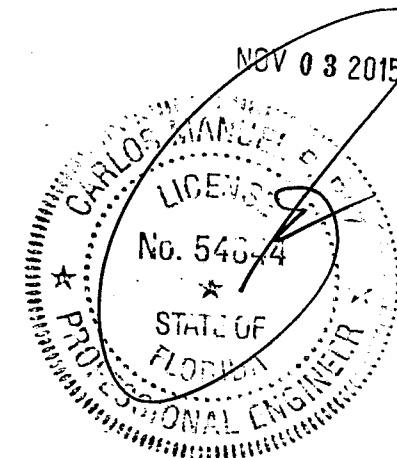
LEFT ELEVATION



REAR ELEVATION

NOTE 1: WINDOW FRAMES/MULLION ANCHORAGE TO MAIN STRUCTURE SHALL BE IN STRICT ACCORDANCE WITH THE UNIT'S NOTICE OF ACCEPTANCE-REFER TO PRODUCTS CONTROLS.
NOTE 2: ONLY THE OPENINGS THAT ARE IDENTIFIED WITH THEIR PRODUCTS CONTROL N.O.A. DESIGN PRESSURES, AND SIZE ARE PART OF THIS PERMIT. ALL OTHER OPENINGS ARE NOT PART OF THIS PERMIT.
NOTE 3: THE MAIN WIND FORCE RESISTING SYSTEM OF THE STRUCTURE (BEAMS, COLUMNS, WALLS, FRAMING, ETC) SHALL BE DESIGNED TO WITHSTAND THE LOADS POSED BY THE GLAZING. NO CALCULATIONS HAVE BEEN PERFORMED TO VERIFY THEIR ADEQUACY. STRUCTURAL ENHANCEMENTS/ALTERATIONS OF EXISTING OPENINGS ARE BEYOND THE SCOPE OF THIS PROJECT AND, IF NECESSARY, SHALL BE DONE BY OTHERS.
NOTE 4: ALL BORERS WINDOWS SHALL HAVE A SILL HEIGHT NOT TO EXCEED 4" ABOVE THE FINISHED FLOOR.
NOTE 5: ALL WINDOWS SHALL NOT HAVE A SILL HEIGHT LESS THAN 36" ABOVE THE FINISHED FLOOR, UNLESS A CODE APPROVED PROTECTIVE BARRIER IS PROVIDED.
NOTE 6: WINDOW COMPANY SHALL FIELD VERIFY ALL ACTUAL FIELD DIMENSIONS PRIOR TO FABRICATION.
NOTE 7: ALL WINDOW OPENINGS IDENTIFIED AS BORERS SHALL BE UNOBSTRUCTED AND SHALL HAVE A MINIMUM NET CLEAR OPENING HEIGHT OF 24", A NET CLEAR OPENING WIDTH OF 20", AND A MINIMUM NET CLEAR OPENING AREA OF 5.7 SQ. FT. (5.0 SQ. FT. FOR GRADE LEVEL WINDOWS).
NOTE 8: IT IS THE EXCLUSIVE RESPONSIBILITY OF THE WINDOW COMPANY TO PROVIDE PRODUCTS THAT MEET OR EXCEED THE ENERGY VALUES MANDATED BY THE STATE OF FLORIDA. COMPLIANCE WITH ENERGY VALUES IS BEYOND THE SCOPE OF THIS ENGINEERING REPORT.

STRUCTURAL ENGINEERING CONSULTANTS, INC.
CERTIFICATE OF AUTH. NO 0007781
CARLOS MANUEL PEREZ, P.E.
STRUCTURAL ENGINEER
9420 S.W. 112TH STREET, MIAMI, FL 33176
TEL 786-242-1720



DATE: 10/23/15
SCALE: 3/16" = 1'
DWG. BY: M.R.Z.
JOB #: 10-2015

NOTE 1: WINDOW FRAMES/MULLION ANCHORAGE TO MAIN STRUCTURE SHALL BE IN STRICT ACCORDANCE WITH THE UNIT'S NOTICE OF ACCEPTANCE-REFER TO PRODUCTS CONTROLS.

NOTE 2: ONLY THE OPENINGS THAT ARE IDENTIFIED WITH THEIR PRODUCTS CONTROL N.O.A. DESIGN PRESSURES, AND SIZE ARE PART OF THIS PERMIT. ALL OTHER OPENINGS ARE NOT PART OF THIS PERMIT.

NOTE 3: THE MAIN WIND FORCE RESISTING SYSTEM OF THE STRUCTURE(I.E. BEAMS,COLUMNS,WALLS,FRAMING,ETC) SHALL BE DESIGNED TO WITHSTAND THE LOADS POSED BY THE GLAZING. NO CALCULATIONS HAVE BEEN PERFORMED TO VERIFY THEIR ADEQUACY. STRUCTURAL ENHANCEMENTS/ ALTERATIONS OF EXISTING OPENINGS ARE BEYOND THE SCOPE OF THIS PROJECT AND, IF NECESSARY, SHALL BE DONE BY OTHERS.

NOTE 4: ALL EGRESS WINDOWS SHALL HAVE A SILL HEIGHT NOT TO EXCEED 44" ABOVE THE FINISHED FLOOR.

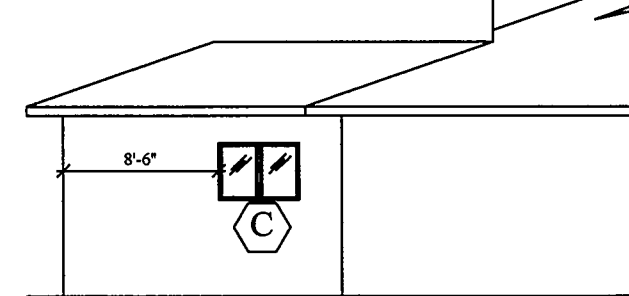
NOTE 5: ALL WINDOWS SHALL NOT HAVE A SILL HEIGHT LESS THAN 36" ABOVE THE FINISHED FLOOR, UNLESS A CODE APPROVED PROTECTIVE BARRIER IS PROVIDED.

NOTE 6: WINDOW COMPANY SHALL FIELD VERIFY ALL ACTUAL FIELD DIMENSIONS PRIOR TO FABRICATION.

NOTE 7: ALL WINDOW OPENINGS IDENTIFIED AS EGRESS SHALL BE UNOBSTRUCTED AND SHALL HAVE A MINIMUM NET CLEAR OPENING HEIGHT OF 24", A NET CLEAR OPENING WIDTH OF 20", AND A MINIMUM NET CLEAR OPENING AREA OF 5.7 SQ. FT.(5.0 SQ.FT. FOR GRADE LEVEL WINDOWS).

NOTE 8: IT IS THE EXCLUSIVE RESPONSIBILITY OF THE WINDOW COMPANY TO PROVIDE PRODUCTS THAT MEET OR EXCEED THE ENERGY VALUES MANDATED BY THE STATE OF FLORIDA. COMPLIANCE WITH ENERGY VALUES IS BEYOND THE SCOPE OF THIS ENGINEERING REPORT.

"CC" 10-1/2" X 17-3/4" (FIXED)
SERIES "SENTINEL 130" ALUMINUM FIXEDWINDOW-LMI
N.O.A.: 15-0413.03
ZONE 5: + 52.0 - 69.3
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN.GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S.GLASS

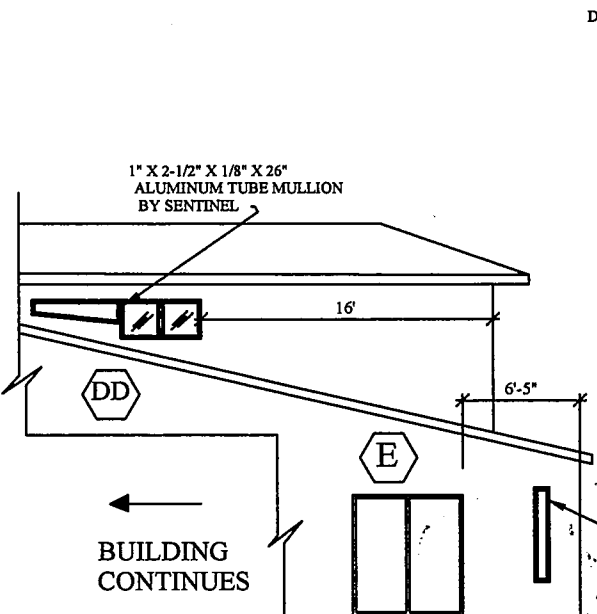


ELEVATION A-A

"C" 53-1/8" X 38-3/8"(OX)
SERIES "SENTINEL 120" ALUMINUM HORIZONTAL SLIDING WINDOW-L.M.I.
N.O.A.: 15-0512.05
ZONE 4: + 52.0 - 56.2
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" ANN.GLASS
.075" SAFLEX CP OR
.090" SAFLEX OR
.090" SENTRYGLAS INTERLAYER
INTERIOR LITE: 1/8" ANN.GLASS

NOTE : STANDARD MEETING RAIL MAY BE USED FOR THIS INSTALLATION.

BUILDING CONTINUES



ELEVATION B-B

"E" 72" X 80"(OX)
SERIES "SENTINEL 150" ALUMINUM SLIDING GLASS DOOR- L.M.I.
N.O.A.: 14-0627.15
ZONE 5: + 50.2 - 66.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S..GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S.GLASS

NOTE 1: INTERLOCKS WITH REINFORCEMENT ARE RQUIRED FOR THIS INSTALLATION.

NOTE 2: STANDARD SILL WITHOUT RISER MAY BE USED FOR THIS INSTALLATION.

NOTE 3: PROVIDE CLUSTER ANCHORS AT STILE/ INTERLOCK ENDS AT HEAD & SILL AS PER THE REQUIREMENTS STATED ON TABLE ON SHEET 8 OF 16 OF N.O.A. THAT MEET OR EXCEED THE DESIGN WIND PRESSURES.

BUILDING CONTINUES

DD" OVERALL FRAME SIZE: 110-1/2" X 26"
(1) 53" X 26"(OX) (RIGHT)
SERIES "SENTINEL 120" ALUMINUM HORIZONTAL SLIDING WINDOW-L.M.I.
N.O.A.: 15-0512.05
ZONE 4: + 52.0 - 56.2
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" ANN.GLASS
.075" SAFLEX CP OR
.090" SAFLEX OR
.090" SENTRYGLAS INTERLAYER
INTERIOR LITE: 1/8" ANN.GLASS

NOTE 1 : STANDARD MEETING RAIL MAY BE USED FOR THIS INSTALLATION.
(1) 57-1/2" X 15-3/4" X 9-1/4"(FIXED)(LEFT)
SERIES "SENTINEL 130" ALUMINUM FIXEDWINDOW-LMI
N.O.A.: 15-0413.03
ZONE 4: + 52.0 - 56.2
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN.GLASS
.075 SAFLEX CP OR
.090 SAFLEX OR
.090 DUPONT SENTRYGLAS INTERLAYER
INTERIOR LITE: 3/16" H.S.GLASS

NOTE 2 : WINDOW UNITS SHALL BE MULLD TOGETHER USING:
1" X 2-1/2" X 1/8" X 26" ALUMINUM TUBE MULLION BY SENTINEL N.O.A.: 14-1103.09

STRUCTURAL ENGINEERING CONSULTANTS, INC.
CERTIFICATE OF AUTH. NO 0007781
CARLOS MANUEL PEREZ, P.E.
STRUCTURAL ENGINEER
1125 S.W. 112TH STREET, MIAMI, FL 33176
305-242-1722

CT 23 2015

REVISION:	
ARCHITECT: RESIDENCE	
PROJECT: 1855 CLEVELAND ROAD	
LOCATION: MIAMI BEACH, FL.	
DATE: 10/23/15	SCALE: 3/16" = 1'
DWG. BY: M.R.Z.	DATE: 10/2015
3A of 3	

010

31600909

3

1855 Cleveland Rd

Miami Beach, FL

Office Copy



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

CGI Windows & Doors
10100 NW 25th Street
Miami, FL 33172

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 "Sentinel 110" Aluminum Single Hung Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. W10-03, titled Series Sentinel 110 Alum. S.H. Wdw. (L.M.I./S.M.I.), sheets 1 through 9 of 9, dated 02/02/10, with revision C dated 04/10/15, 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: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/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# 14-0915.06 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 Manuel Perez, P.E.



MP
8/17/15

NOA No. 15-0512.10
Expiration Date: September 22, 2020
Approval Date: August 06 2015
Page 1

CGI Windows & Doors

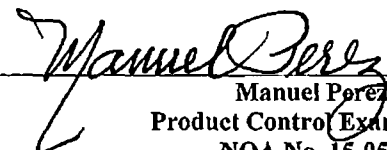
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W10-03**, titled "Series Sentinel 110 Alum S.H. Wdw. (L.M.I./S.M.I.)", sheets 1 through 9 of 9, dated 02/02/10, with revision C dated 04/10/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94.....
along with marked-up drawings and installation diagram of a series 7500 PVC fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA-3056 WA**, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 7400 PVC project out window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® anti Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA-3056 WB**, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 238 aluminum fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. **CTLA-3056 WC**, dated 04/16/15, signed and sealed by Ramesh C. Patel, P.E.
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of a series "Sentinel" aluminum single hung window, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0080-0101-10**, dated 02/03/10, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No.10-0510.11)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.10
Expiration Date: September 22, 2020
Approval Date: August 06 2015

CGI Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated 09/08/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under previous NOA No.14-0915.06)
2. Glazing complies with **ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

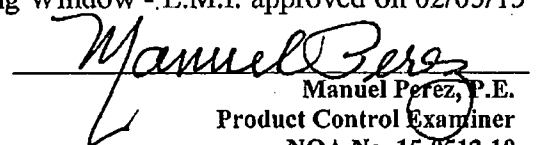
1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers"** dated 06/25/15, expiring on 07/04/18.
2. Notice of Acceptance No. **14-0916.10** issued to **Kuraray America, Inc.** for their **"Butacite® PVB Glass Interlayer"** dated 04/25/15, expiring on 12/11/16.
3. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Company (MA)** for their **"Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core"** dated 06/19/14, expiring on 12/11/18.
4. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their **"Saflex Clear and Color Glass Interlayers"** dated 06/19/14, expiring on 05/21/16.

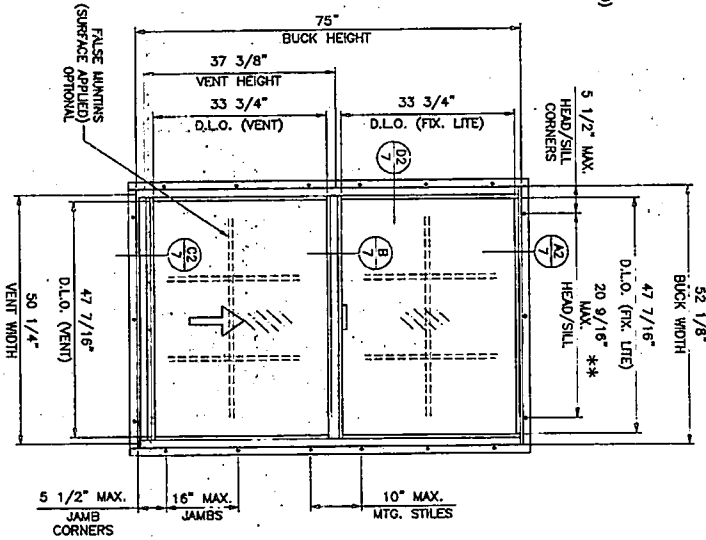
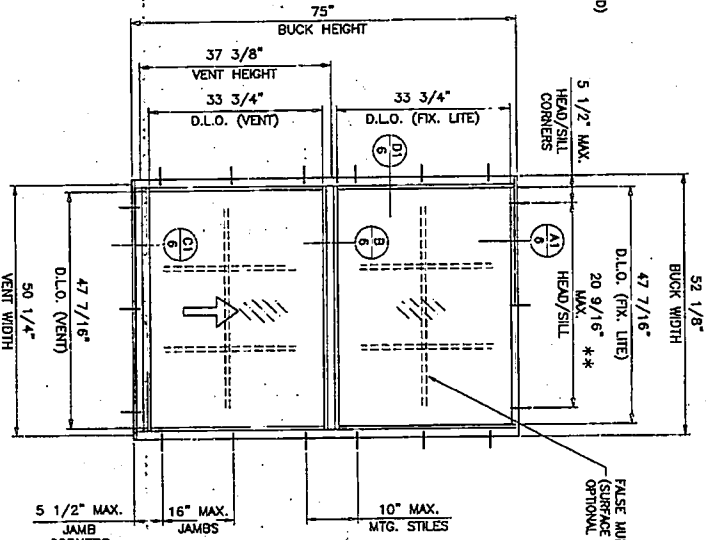
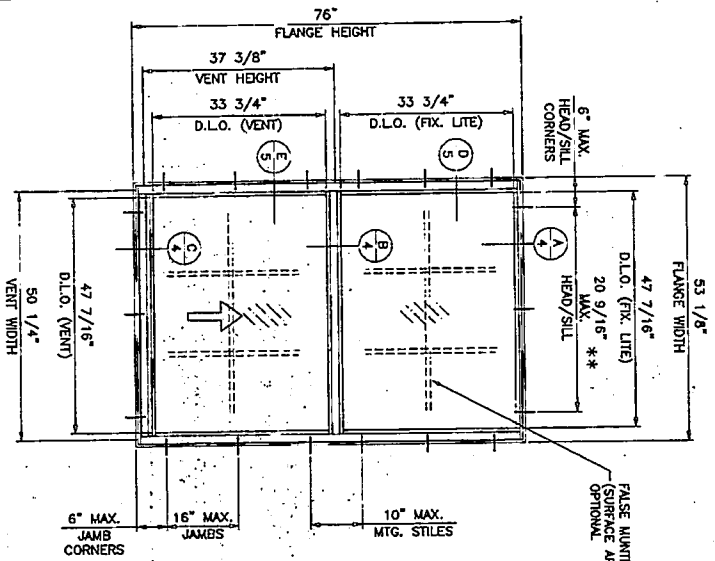
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated 08/26/14, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under previous NOA No.14-0915.06)
2. Laboratory compliance letter for Test Report No. **HTL-0080-0101-10**, issued by Hurricane Test Laboratory, LLC, dated February 03, 2010, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No.10-0510.11)
3. Test Proposal for the qualification of **Butacite®** PVB glass interlayer by DuPont as well as **Duraseal®** and **Super Spacer® Standard** warm-edge flexible insulating glass spacers, dated December 16, 2014, issued by RER, Product Control Section, signed by Jaime Gascon, Supervisor.

G. OTHERS

1. Notice of Acceptance No. **14-0915.06**, issued to CGI Windows & Doors for their Series **"Sentinel 110"** Aluminum Single Hung Window - L.M.I. approved on 02/05/15 and expiring on 09/22/20.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.10
Expiration Date: September 22, 2020
Approval Date: August 06 2015



FLANGE & FLANGE ADAPTOR FRAME

EQUAL LFG FRAME

FIN FRAME

SERIES SENTINEL 110 ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WDW. WITH OTHER MIAMI-DADE COUNTY APPROVED 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 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STICCO. ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/ALUM. SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.

*
*
CENTER ANCHOR REQUIRED WHEN SPACING EXCEEDS 20 9/16"

TYPICAL ELEVATION

Exp. JAWO AMMO
F.A. 70592
C.A.R. 5339
JUL 31 2015

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 15-0520.10
Expiration Date Sept 22, 2020
By: *Michael J. King*
Miami-Dade Product Control

LAMINATED GLASS
INSULATING LAM. GLASS
LARGE MISSILE IMPACT
SMALL MISSILE IMPACT

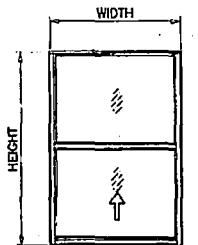
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scale: 1/2" = 1"	no. date by description
drawn by:	A 08.13.10 REV. PER BCCO COMMENTS
chk. by:	B 09.09.14 UPDATED TO 2014 FBC
	C 04.10.15 NO CHANGE THIS SHEET

SERIES SENTINEL 110 ALUM S.H. WDW. (L.M.I./S.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX. (305) 593-6592

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W10-03CGI

Sheet 1 of 9
drawing no. W10-03

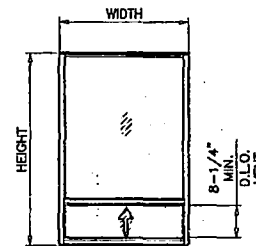
EQUAL LITES WINDOWS							
DESIGN LOAD CAPACITY - PSF							
FLANGE DIMS.		BUCK DIMS.		GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"		18-1/8"		75.0	75.0	80.0	85.0
26-1/2"		25-1/2"		75.0	75.0	80.0	85.0
37"	26"	36"	25"	75.0	75.0	80.0	85.0
49"		48"		75.0	75.0	80.0	85.0
53-1/8"		52-1/8"		75.0	75.0	80.0	85.0
19-1/8"		18-1/8"		75.0	75.0	80.0	85.0
26-1/2"		25-1/2"		75.0	75.0	80.0	85.0
37"	38-3/8"	36"	37-3/8"	75.0	75.0	80.0	85.0
49"		48"		75.0	75.0	80.0	85.0
53-1/8"		52-1/8"		75.0	75.0	80.0	85.0
19-1/8"		18-1/8"		75.0	75.0	80.0	85.0
26-1/2"		25-1/2"		75.0	75.0	80.0	85.0
37"	50-5/8"	36"	49-5/8"	75.0	75.0	80.0	85.0
49"		48"		75.0	75.0	80.0	85.0
53-1/8"		52-1/8"		75.0	75.0	80.0	85.0
19-1/8"		18-1/8"		75.0	75.0	80.0	85.0
26-1/2"		25-1/2"		75.0	75.0	80.0	85.0
37"	63"	36"	62"	75.0	75.0	80.0	85.0
49"		48"		75.0	75.0	80.0	85.0
53-1/8"		52-1/8"		75.0	75.0	80.0	85.0
19-1/8"		18-1/8"		75.0	75.0	80.0	85.0
26-1/2"		25-1/2"		75.0	75.0	80.0	85.0
37"	76"	36"	75"	75.0	75.0	80.0	85.0
49"		48"		75.0	75.0	80.0	85.0
53-1/8"		52-1/8"		75.0	75.0	80.0	85.0
19-1/8"		18-1/8"		75.0	75.0	80.0	85.0
26-1/2"		25-1/2"		75.0	75.0	80.0	85.0
37"	85"	36"	84"	75.0	75.0	80.0	85.0
46-1/2"		45-1/2"		75.0	75.0	80.0	85.0



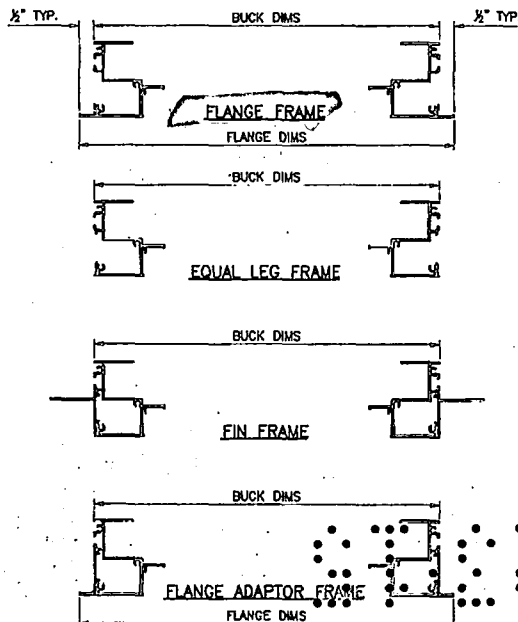
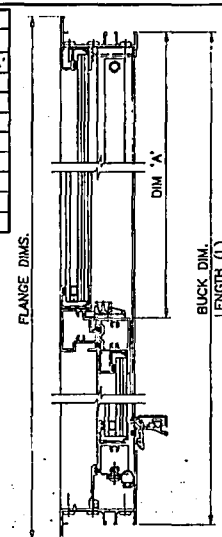
EQUAL LITES

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

UNEQUAL LITES WINDOWS							
DESIGN LOAD CAPACITY - PSF							
FLANGE DIMS.		BUCK DIMS.		MAX. TOP LITE	GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1'
WIDTH	HEIGHT	WIDTH	HEIGHT	'A' DIM.	EXT.(+)	INT.(-)	EXT.(+)
53-1/8"	76"	52-1/8"	75"	36-1/4"	75.0	75.0	80.0
49"	79"	48"	78"	39-1/4"	75.0	75.0	80.0
26-1/2"		25-1/2"		70-5/8"	75.0	75.0	80.0
31"		30"		63-5/8"	75.0	75.0	80.0
33"	85"	32"	84"	60"	75.0	75.0	80.0
37"		36"		53-1/2"	75.0	75.0	80.0
43"		42"		45-1/4"	75.0	75.0	80.0



UNEQUAL LITES (ORIEL TYPE)



Engr: JAVAD AHMAD
CIVIL
FLA. REG. # 70592
C.A.N. 3538

JUL 10 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.10
Expiration Date Sept. 27, 2020
By: *Manuel J. Jara*
Miami Dade Product Control

af c

AL-FAROQQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 262-6978 FAX (305) 262-6978
COMP-ANL W10-03CG

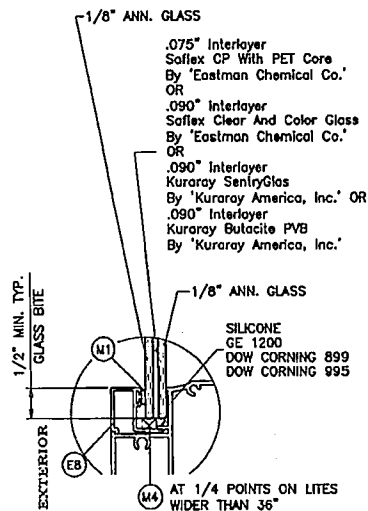
SERIES SENTINEL 110 ALUM S.H. WDW. (L.M.I./S.M.I.)

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6990 FAX (305) 593-6592

REV.	DATE	DESCRIPTION
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B	09.09.14	UPDATED TO 2014 FBC
C	04.10.15	NO CHANGE THIS SHEET

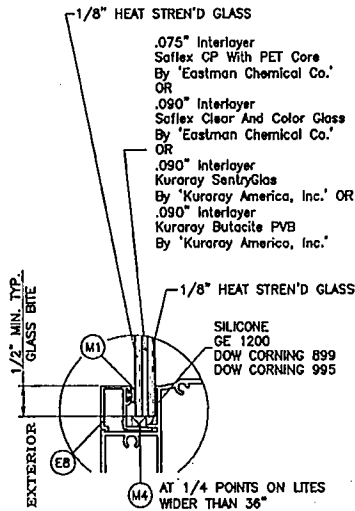
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dr. by: *Manuel J. Jara*
chk. by: *Manuel J. Jara*

drawing no. **W10-03**
sheet 2 of 9

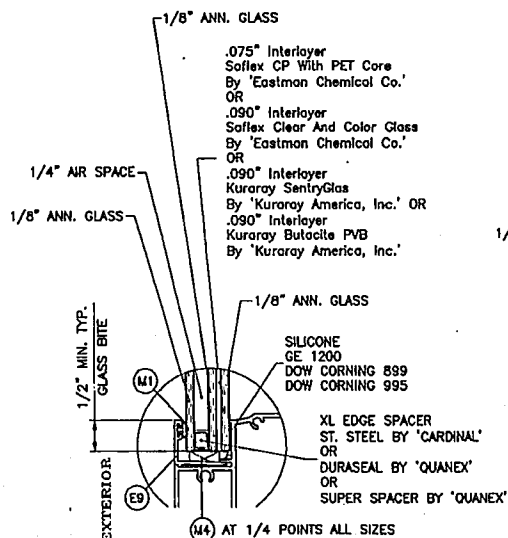


GLASS TYPE 'A'
5/16" OVERALL LAM. GLASS

(L.M.I. & S.M.I.)

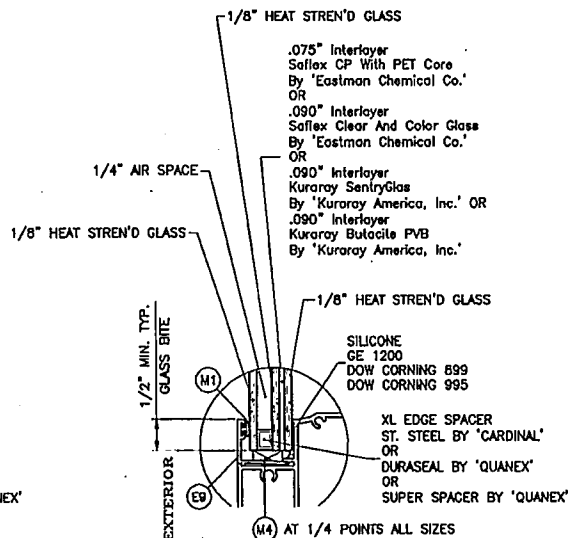


GLASS TYPE 'B'
5/16" OVERALL LAM. GLASS



GLASS TYPE 'A1'
0.70" OVERALL INSUL. LAM. GLASS

(L.M.I. ONLY)



GLASS TYPE 'B1'
0.70" OVERALL INSUL. LAM. GLASS

(S.M.I.)

IN ORDER TO QUALIFY FOR SMALL MISSILE IMPACT RATING
EXTERIOR PLY OF GLASS TYPE 'A1' & 'B1' MUST BE TEMPERED.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3536
JUL 30 2015

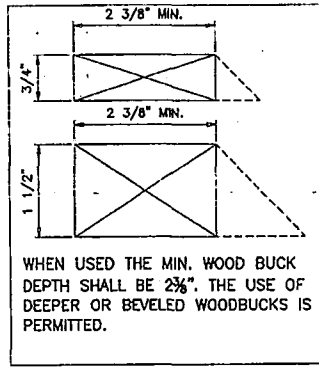
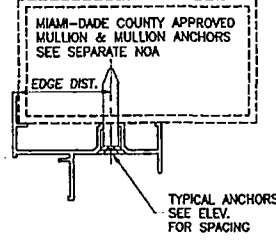
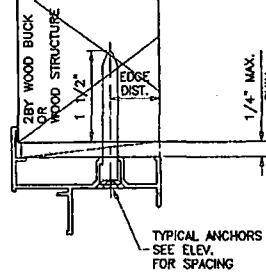
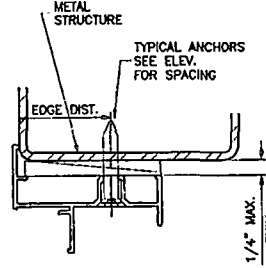
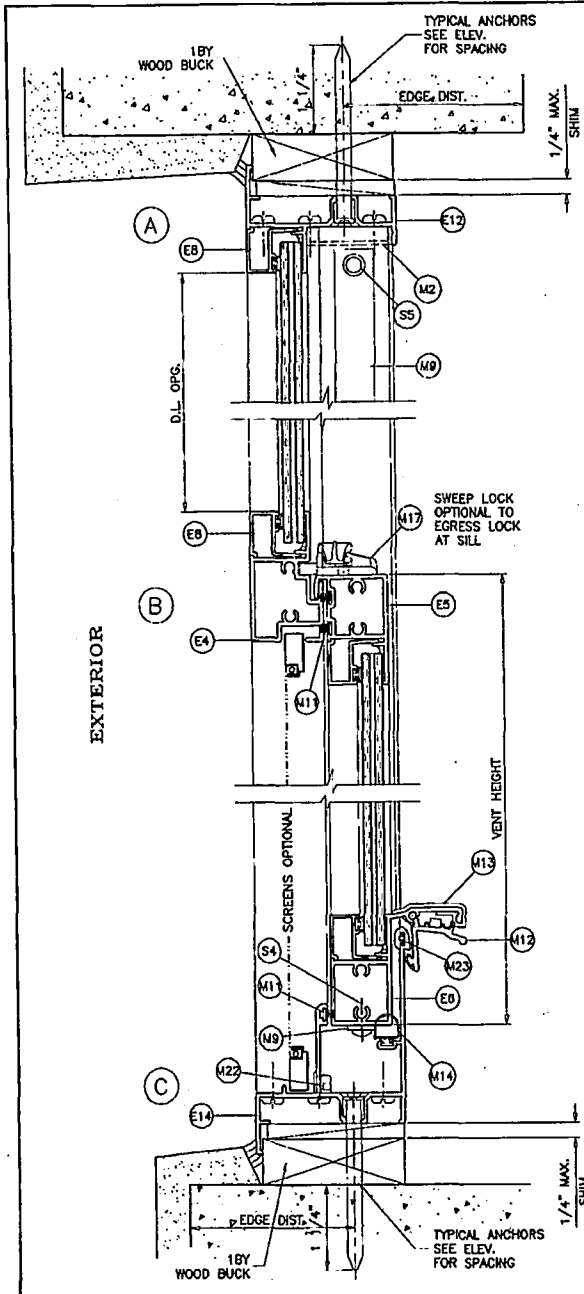
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.10
Expiration Date SEP 22, 2020
By: *Mamuk Jell*
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87th Ave.
MIAMI, FLORIDA 33174
TEL (905) 264-8100 FAX (305) 262-6978
COMP-ANL/W10-03CGI

SERIES SENTINEL 110 ALUM S.H. WDW. (L.M.I./S.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

NO	DATE	BY	DESCRIPTION
A	04.13.10	REV. PER BICO COMMENTS	
B	05.03.14	UPDATED TO 2014 FBC	
C	04.10.15	INTERLAYER & SPACER REV	

date: 02-02-10
scale: 1/2" = 1"
dr. by:
chk. by:
drawing no.
W10-03
sheet 3 of 9



FLANGE & FLANGE ADAPTOR FRAME

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

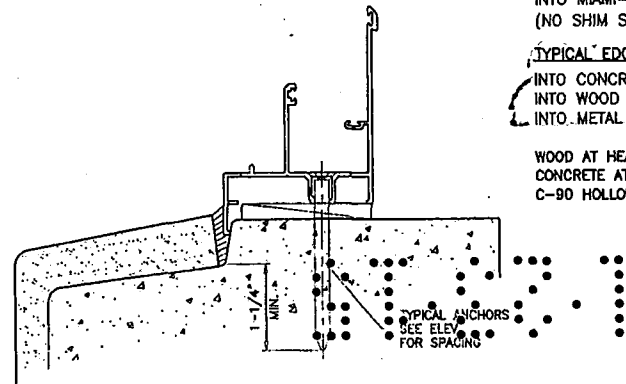
TYPICAL ANCHORS: SEE ELEV. FOR SPACING
 1/4" DIA. TAPCON BY ITW (Fu=120 KSI, Fy=92 KSI)
 1/4" DIA. ULTRACON BY ELCO (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
 DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO METAL STRUCTURES
 STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")
 (NO SHIM SPACE)

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 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 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 JUL 30 2015

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 15-0512.10
 Expiration Date Sep 24, 2020
 By Mamuk Iriez
 Miami Dade Product Control

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-8100 FAX (305) 262-6978
 COMP-AN/W10-03CGI

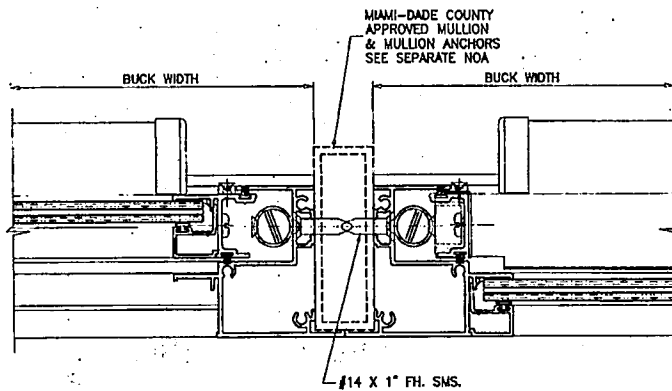
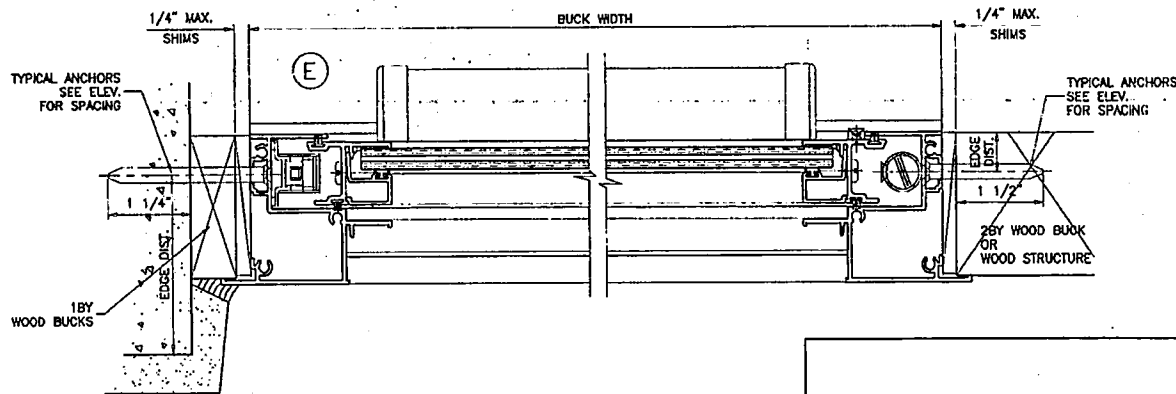
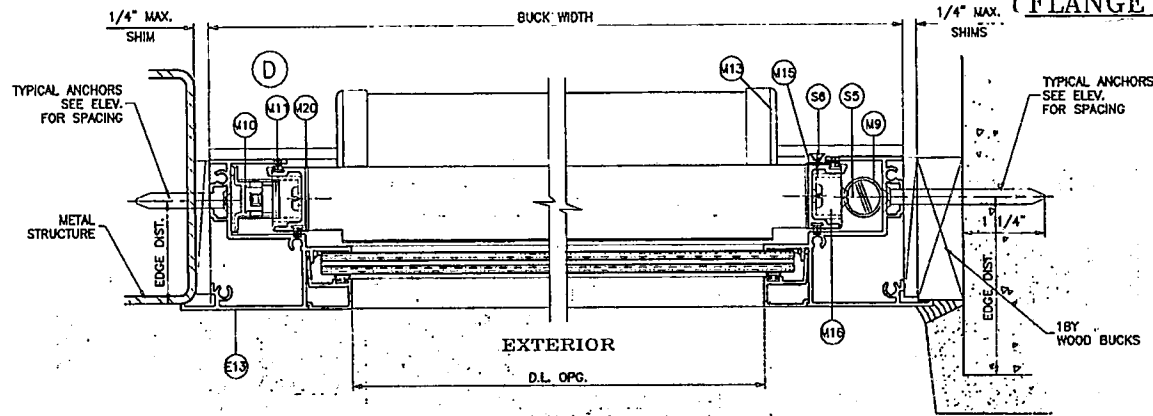
CGI WINDOWS & DOORS
 10100 N.W. 25TH STREET
 MIAMI, FL 33172
 TEL (305) 593-8590 FAX (305) 593-6592

NO	DATE	BY	DESCRIPTION
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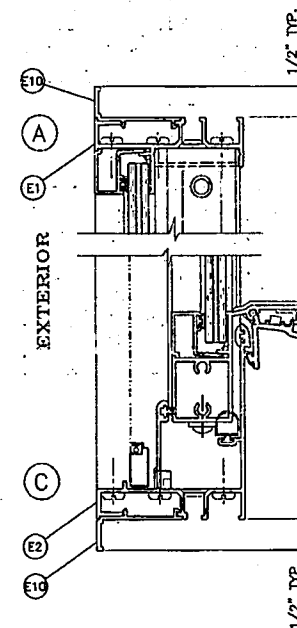
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 Scale: 1/2" = 1"
 Dr. by: [Signature]
 Chk. by: [Signature]

drawing no. **W10-03**
 sheet 4 of 9

FLANGE & FLANGE ADAPTOR FRAME



FLANGE ADAPTOR FRAME



INSTALLATION DETAILS SHOWN ON PAGES 4 AND 5 APPLY TO BOTH FLANGE FRAME AND FLANGE ADAPTOR FRAMES.

Engr: JAWAD AHMAD
CIVIL
FLA. PE. # 70592
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.10
Expiration Date 5/31/2020
By: *Manuel Jerez*
Miami Dade Product Control

JUL 30 2015

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-8978
COMP-AN/W10-03CGI

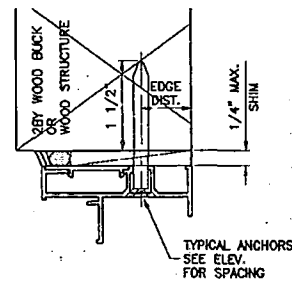
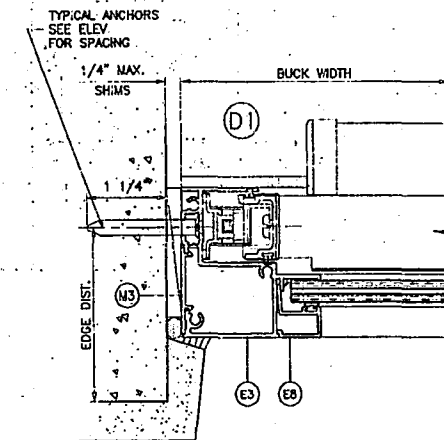
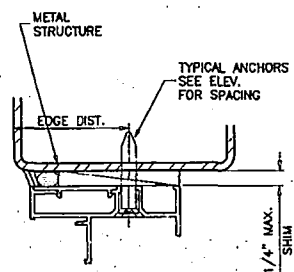
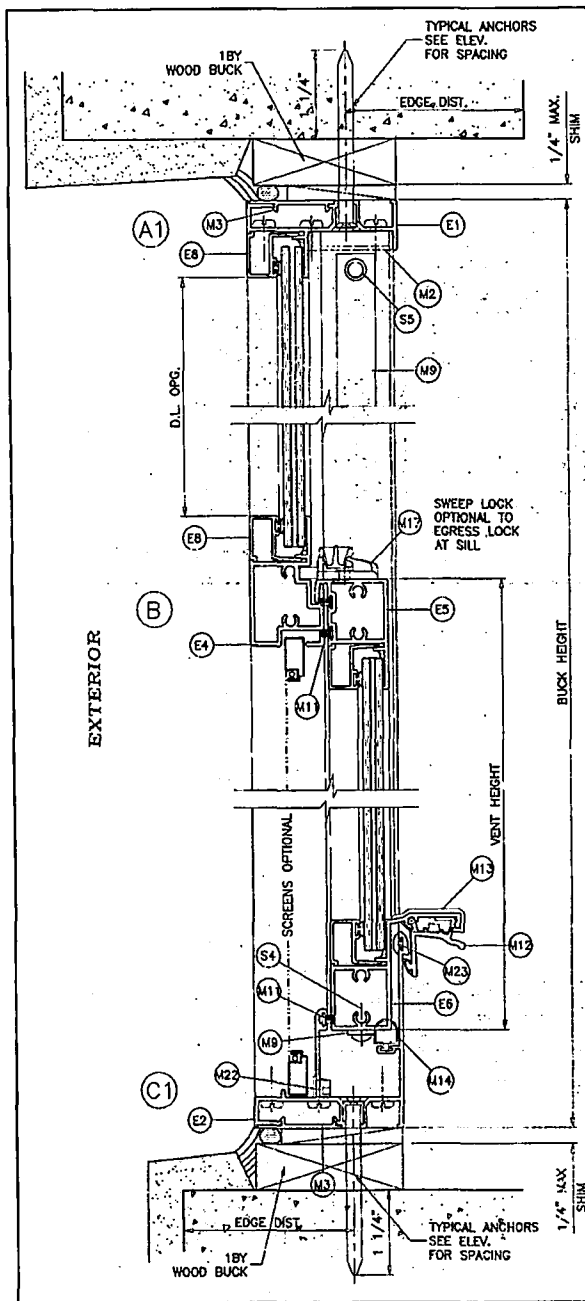
SERIES SENTINEL 110 ALUM. S.H. WDW. (I.M.I./S.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

REVISIONS:	NO.	DATE	BY	DESCRIPTION
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	B	06.09.14	UPDATED TO 2014 FBC	
	C	04.10.15	NO CHANGE THIS SHEET	

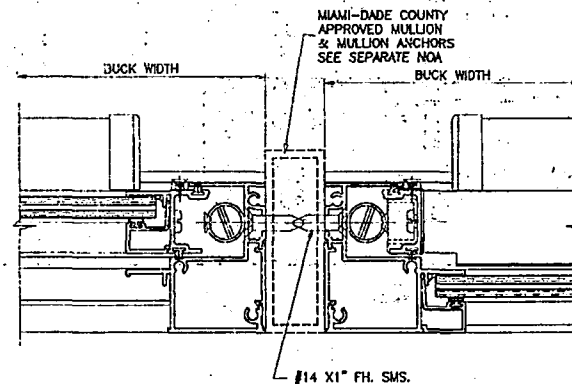
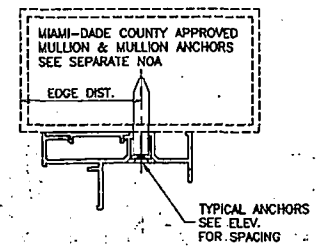
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scale:	1/2" = 1"
dr. by:	
chk. by:	

drawing no.
W10-03

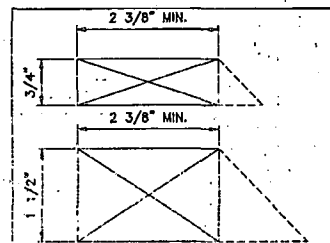
sheet 5 of 9



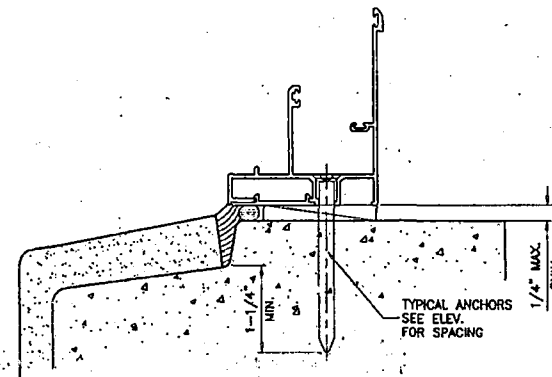
EQUAL LEG FRAME



EQUAL LEG FRAME CAN BE INSTALLED DIRECTLY INTO WOOD, CONCRETE OR METAL STRUCTURES WITHOUT THE NEED OF A WOOD BUCK.



WHEN USED THE MIN. WOOD BUCK DEPTH SHALL BE 2 3/8". THE USE OF DEEPER OR BEVELED WOODBUCKS IS PERMITTED.



Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.V. 3538
JUL 13 2015

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 15-0512.10
Expiration Date Sept. 22, 2020
By *Manuel Perez*
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX (305) 262-6978
COMP-ANL W10-0300

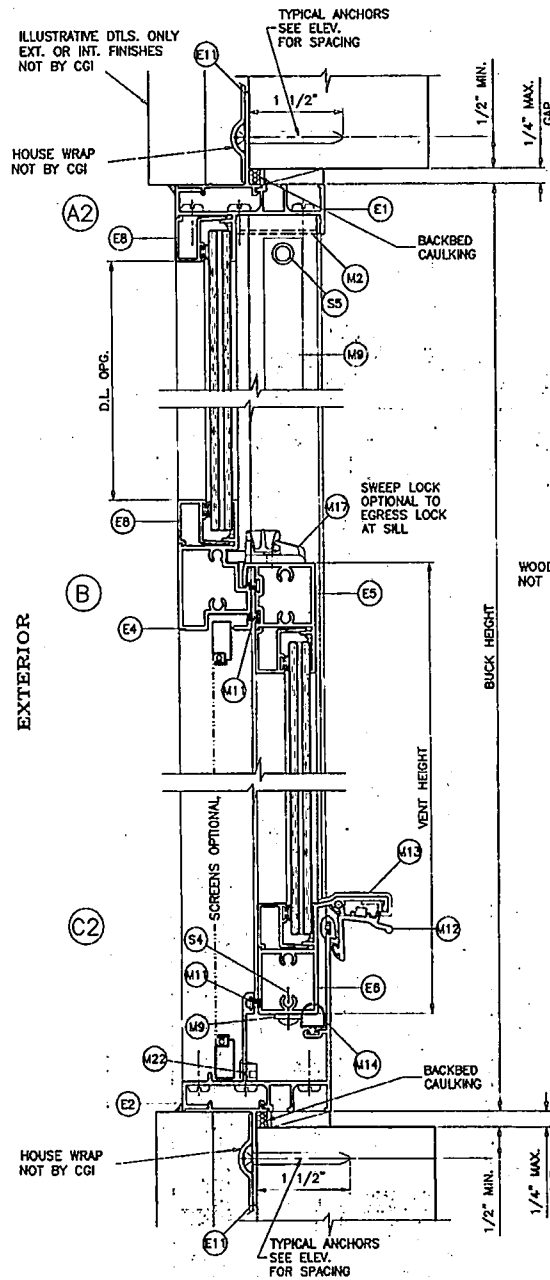
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL. (305) 593-6590 FAX (305) 593-6592

REVISIONS:	
NO.	DATE
A	10/13/10
B	09/05/14
C	04/10/15

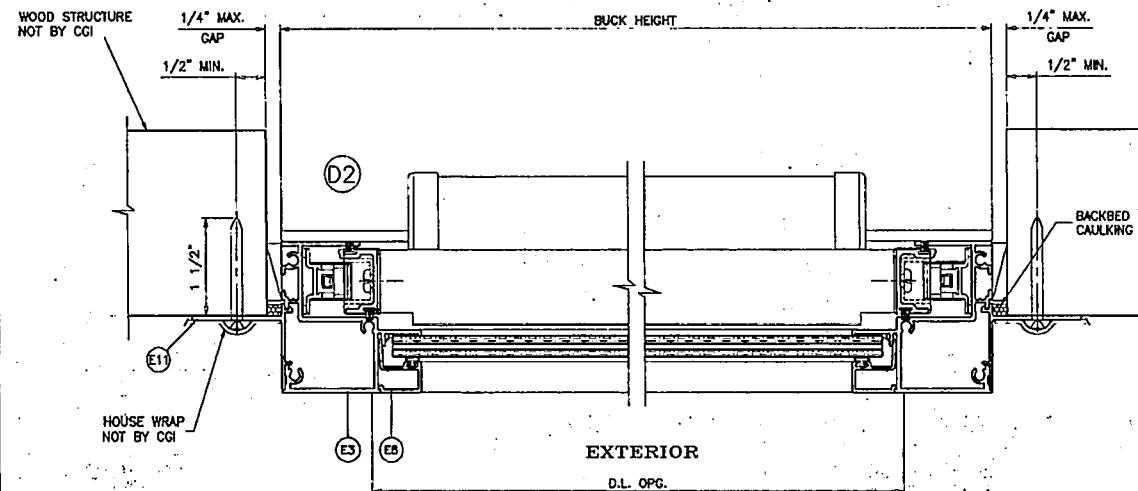
date: 02-02-10
scale: 1/2" = 1"
dr. by:
chk. by:

drawing no.
W10-03
sheet 6 of 9

FIN FRAME



TYPICAL ANCHORS: SEE ELEV. FOR SPACING
#8 SMS (GRADE 2 CRS)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2\" MIN. PENETRATION INTO WOOD



Engr: JAVAD AHMAD
 CML
 FLA. PE # 70592
 C.A.N. 3538
 JUL 20 2015

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 15-0512-10
 Expiration Date 5/15/2020
 By: *Mouad J. J.*
 Miami Trade Product Control

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 12335 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-8100 FAX (305) 262-6978
 COMP-ANLW10-03CGI

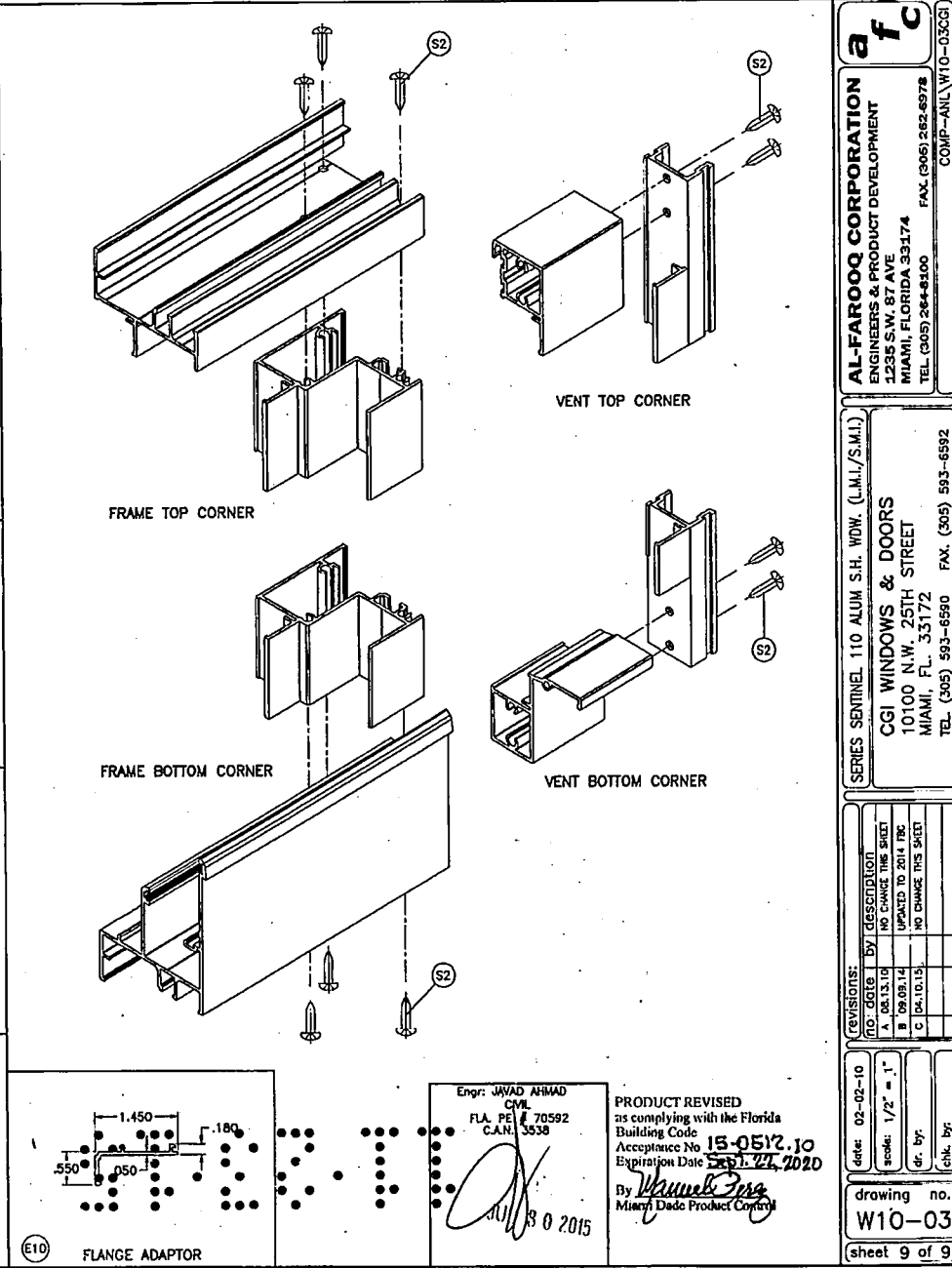
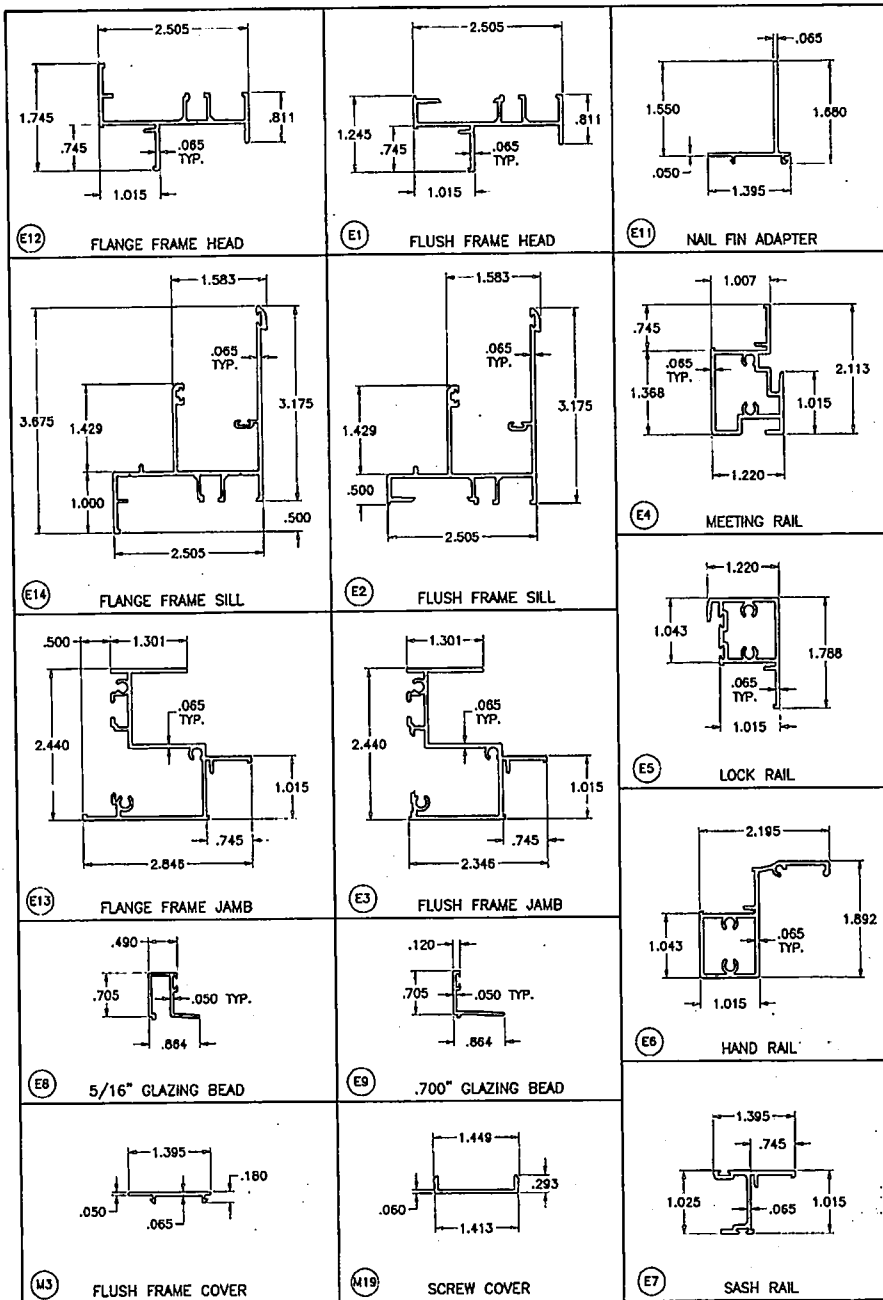
CGI WINDOWS & DOORS
 10100 N.W. 25TH STREET
 MIAMI, FL 33172
 TEL (305) 593-6590 FAX (305) 593-6592

REV	DATE	BY	DESCRIPTION
1	02-02-10	CGI	NO CHANGE THIS SHEET
2	06-03-10	CGI	NO CHANGE THIS SHEET
3	09-03-14	CGI	UPD TO 2014 FBC
4	04-10-15	CGI	NO CHANGE THIS SHEET

Scale: 02-02-10
 1/2" = 1'

drawing no.
W10-03

sheet 7 of 9



af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANIL W10-0303

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

SERIES SENTINEL 110 ALUM. S.H. WDW. (L.M.I./S.M.I.)

NO.	DATE	BY	DESCRIPTION
A	08.13.10		NO CHANGE THIS SHEET
B	09.03.14		UPDATED TO 2014 FBC
C	04.10.15		NO CHANGE THIS SHEET

Revisions:

date: 02-02-10
scale: 1/2" = 1"
dr. by:
chk. by:

Engr: JAVAD AHMAD
CML
FLA. PEL # 70592
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.10
Expiration Date: 08.21.2020

By: *Manuel Pina*
Miami Dade Product Control

drawing no.
W10-03

sheet 9 of 9



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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

www.miamidade.gov/economy

CGI Windows & Doors

10100 NW 25th Street

Miami, FL 33172

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 "Sentinel 130" Aluminum Fixed Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. W10-02, titled "Series Sentinel 130 Alum Fixed Window (L.M.I.) (S.M.I.)", sheets 1, 1.1, 2, 3, 4, 5 and 6 of 6, dated 01/30/10, with revision F dated 04/10/15, 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: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/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 and renews NOA# 14-0731.05 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 Manuel Perez, P.E.

MIAMI-DADE COUNTY
APPROVED

7/6/18/15

NOA No. 15-0413.03

Expiration Date: September 22, 2020

Approval Date: June 25, 2015

Page 1

CGI Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. W10-02, titled Series Sentinel 130 Alum Fixed Window (L.M.I.) (S.M.I.), sheets 1, 1.1, 2, 3, 4, 5 and 6 of 6, dated 01/30/10, with revision F, dated 04/10/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 7500 PVC fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WA, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 7400 PVC project out window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WB, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 238 aluminum fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WC, dated 04/16/15, signed and sealed by Ramesh C. Patel, P.E.
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a Sentinel 130 aluminum fixed window, prepared by Hurricane Test Laboratory, LLC, Test Report No. HTL-0080-0103-10, dated 03/30/10, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No.10-0510.13)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0413.03
Expiration Date: September 22, 2020
Approval Date: June 25, 2015

CGI Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC-5th Edition (2014)**, dated July 18, 2014, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under previous NOA No.14-0731.05)
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. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
3. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company, (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 06/19/14, expiring on 05/21/16.
4. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Company (MA)** for their "**Saflex CP - Saflex and Saflex HP Composite Glass Interlayers with PET Core**" dated 06/19/14, expiring on 12/11/18.

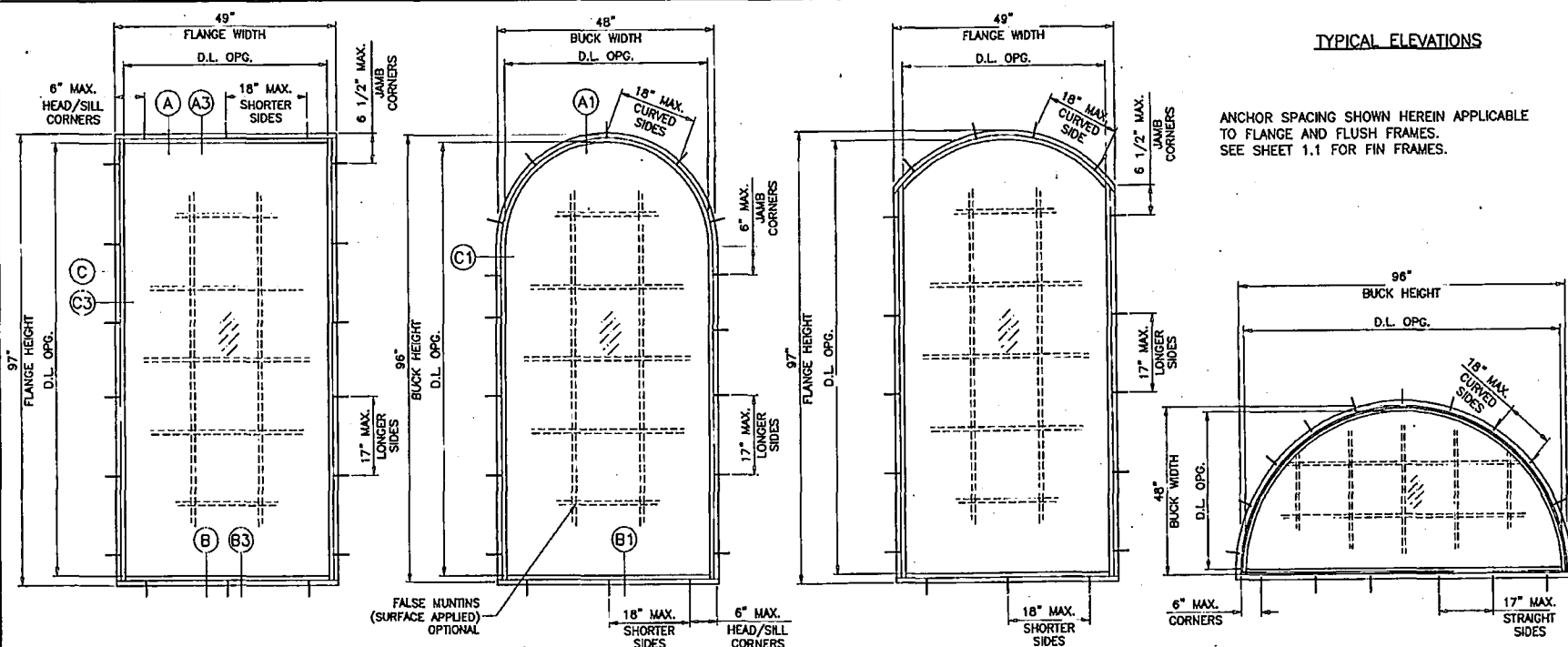
F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated July 18, 2014, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under previous NOA No.14-0731.05)
2. Laboratory compliance letter for Test Report No. **HTL-0080-0103-10**, issued by Hurricane Test Laboratory, LLC, dated March 30, 2010, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No.10-0510.13)
3. Testing Proposal issued by the Product Control Section, dated 12/16/14, signed by Jaime Gascon, P.E., Supervisor, Product Control Section

G. OTHERS

1. Notice of Acceptance No. **14-0731.05**, issued to CGI Windows & Doors, for their Series "Sentinel 130" Aluminum Fixed Window - L.M.I. approved on 10/16/14 and expiring on 09/22/15.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0413.03
Expiration Date: September 22, 2020
Approval Date: June 25, 2015



TYPICAL ELEVATIONS

ANCHOR SPACING SHOWN HEREIN APPLICABLE TO FLANGE AND FLUSH FRAMES. SEE SHEET 1.1 FOR FIN FRAMES.

FLANGE & FLANGE ADAPTOR FRAME

EQUAL LEG FRAME

SERIES 130 SENTINEL ALUMINUM FIXED WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIX. WDW. WITH OTHER MIAMI-DADE COUNTY APPROVED 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 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

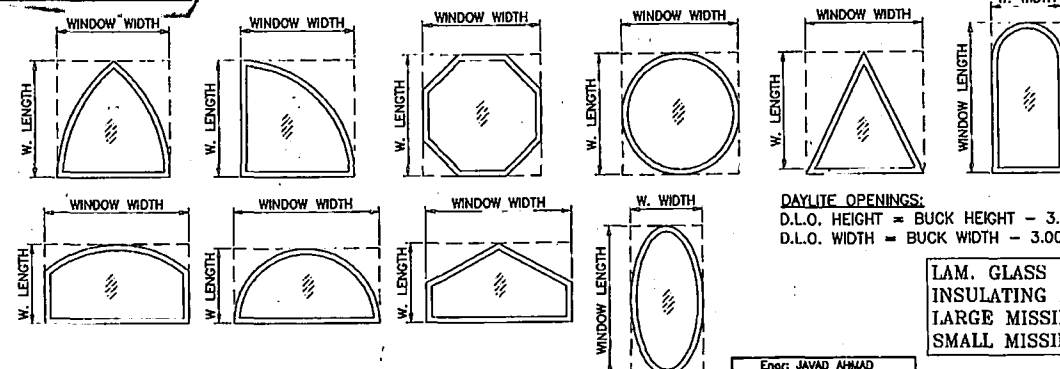
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

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

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



DAYLITE OPENINGS:
D.L.O. HEIGHT = BUCK HEIGHT - 3.00"
D.L.O. WIDTH = BUCK WIDTH - 3.00"

LAM. GLASS
INSULATING LAM. GLASS
LARGE MISSILE IMPACT
SMALL MISSILE IMPACT

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

Engr: JAVAD AHMAD
CML
FLA. PC # 70592
C.A.N. 3538

MAILED 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0413.03
Expiration Date SEPT 22, 2020
By: [Signature]
Miami Dade Product Control

AL-FAROQQ CORP.
ENGINEERS & PRODUCT DEVELOPMENT
12235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W10-02C

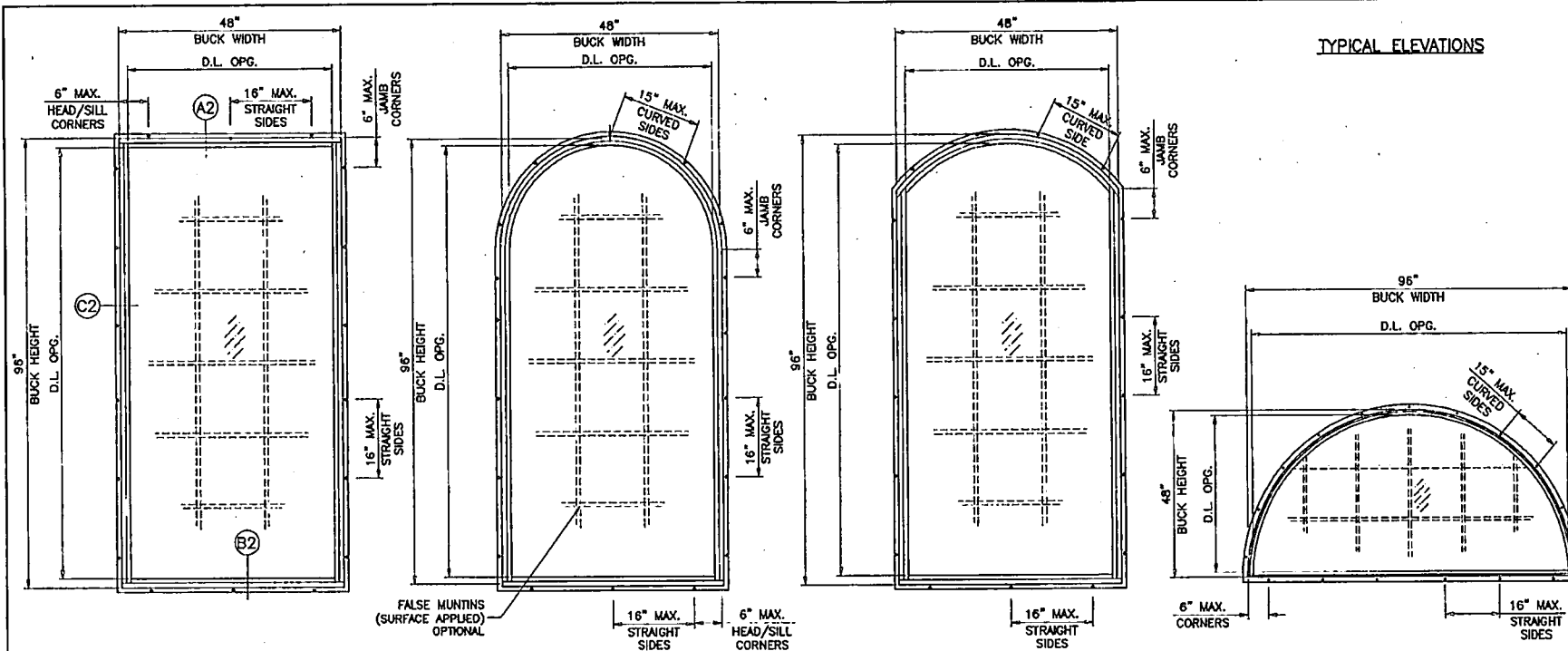
SERIES SENTINEL 130 ALUM FIXED WINDOW (L.M.I.) (S.M.I.)

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

NO	DATE	BY	DESCRIPTION
C	02.28.11		NO CHANGE THIS SHEET
D	10.10.11		UPDATED TO 2010 FBC
E	07.21.14		UPDATED TO 2014 FBC
F	04.10.15		NO CHANGE THIS SHEET

Order: 01-30-10
Scale: 1/2" = 1'-0"
Dr. By: [Signature]
Chk. By: [Signature]

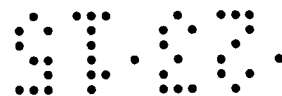
drawing no.
W10-02
sheet 1 of 6



TYPICAL ELEVATIONS

FIN FRAMES

ALTERNATE SHAPES AS SHOWN ON SHEET 1 ALSO AVAILABLE FOR FIN FRAMES



Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A. 3538
MAY 14 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0413.03
Expiration Date Sept 22, 2020
By: *Manuel*
Miami Dade Product Control

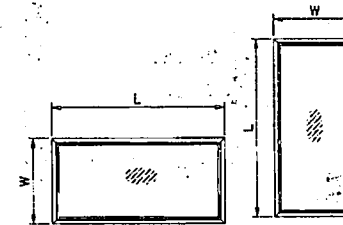
AL-FAROOQ CORP. ENGINEERS & PRODUCT DEVELOPMENT 1228 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL (305) 264-8300 FAX (305) 262-8978 COMP-ANL W10-02CG																					
SERIES SENTINEL 130 ALUM FIXED WINDOW (L.M.I.) (S.M.I.) CGI WINDOWS & DOORS 10100 N.W. 25TH STREET MIAMI, FL 33172 TEL (305) 593-6590 FAX (305) 593-6592																					
NO. 01-30-10 DATE 01-30-10 BY 1/2"=1'-0" SCALE 1/2"=1'-0" DR. BY CHK. BY	REVISIONS: <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> <tr> <td>C</td> <td>02.28.11</td> <td></td> <td>NO CHANGE THIS SHEET</td> </tr> <tr> <td>D</td> <td>10.10.11</td> <td></td> <td>NO CHANGE THIS SHEET</td> </tr> <tr> <td>E</td> <td>02.21.14</td> <td></td> <td>UPDATED TO 2014 FBC</td> </tr> <tr> <td>F</td> <td>04.10.15</td> <td></td> <td>NO CHANGE THIS SHEET</td> </tr> </table>	NO.	DATE	BY	DESCRIPTION	C	02.28.11		NO CHANGE THIS SHEET	D	10.10.11		NO CHANGE THIS SHEET	E	02.21.14		UPDATED TO 2014 FBC	F	04.10.15		NO CHANGE THIS SHEET
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C	02.28.11		NO CHANGE THIS SHEET																		
D	10.10.11		NO CHANGE THIS SHEET																		
E	02.21.14		UPDATED TO 2014 FBC																		
F	04.10.15		NO CHANGE THIS SHEET																		
drawing no. W10-02 sheet 1 of 6																					

DESIGN LOAD CAPACITY - PSP							
FLANGE DIMS.		BUCK DIMS.		GLASS TYPES 'C' & 'C1'		GLASS TYPES 'D' & 'D1'	
WIDTH (W)	LENGTH (L)	WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	36"	23"	35"	80.0	80.0	80.0	80.0
30"		29"		80.0	80.0	80.0	80.0
36"		35"		80.0	80.0	80.0	80.0
42"		41"		80.0	80.0	80.0	80.0
48"		47"		80.0	80.0	80.0	80.0
54"		53"		80.0	80.0	80.0	80.0
60"		59"		80.0	80.0	80.0	80.0
61"		60"		80.0	80.0	80.0	80.0
24"	48"	23"	47"	80.0	80.0	80.0	80.0
30"		29"		80.0	80.0	80.0	80.0
36"		35"		80.0	80.0	80.0	80.0
42"		41"		70.2	70.2	80.0	80.0
48"		47"		61.3	61.3	80.0	80.0
54"		53"		61.3	61.3	80.0	80.0
60"		59"		61.3	61.3	80.0	80.0
61"		60"		61.3	61.3	80.0	80.0
24"	60"	23"	59"	80.0	80.0	80.0	80.0
30"		29"		80.0	80.0	80.0	80.0
36"		35"		80.0	80.0	80.0	80.0
42"		41"		70.2	70.2	80.0	80.0
48"		47"		61.3	61.3	80.0	80.0
54"		53"		54.3	54.3	72.5	72.5
60"		59"		48.8	48.8	65.1	65.1
61"		60"		48.8	48.8	65.1	65.1
24"	72"	23"	71"	80.0	80.0	80.0	80.0
30"		29"		80.0	80.0	80.0	80.0
36"		35"		80.0	80.0	80.0	80.0
42"		41"		70.2	70.2	80.0	80.0
48"		47"		61.3	61.3	80.0	80.0
54"		53"		54.3	54.3	72.5	72.5
60"		59"		48.8	48.8	65.1	65.1
61"		60"		48.8	48.8	65.1	65.1
24"	84"	23"	83"	80.0	80.0	80.0	80.0
30"		29"		80.0	80.0	80.0	80.0
36"		35"		78.2	78.2	80.0	80.0
42"		41"		70.0	70.0	80.0	80.0
48"		47"		61.3	61.3	80.0	80.0
54"		53"		54.3	54.3	72.5	72.5
56"		55"		52.4	52.4	69.8	69.8
24"	96"	23"	96"	80.0	80.0	80.0	80.0
30"		29"		80.0	80.0	80.0	80.0
36"		35"		75.6	75.6	80.0	80.0
42"		41"		65.2	65.2	80.0	80.0
48"		47"		60.6	60.6	80.0	80.0
48"		48"		56.6	56.6	80.0	80.0
24"	102"	23"	101"	80.0	80.0	80.0	80.0
30"		29"		80.0	80.0	80.0	80.0
36"		35"		74.6	74.6	80.0	80.0
42"		41"		65.7	65.7	80.0	80.0
48"		45"		59.3	59.3	80.0	80.0
24"	108"	23"	107"	80.0	80.0	80.0	80.0
30"		29"		80.0	80.0	80.0	80.0
36"		35"		73.8	73.8	80.0	80.0
42"		41"		62.4	62.4	80.0	80.0
44"		43"		59.1	59.1	80.0	80.0

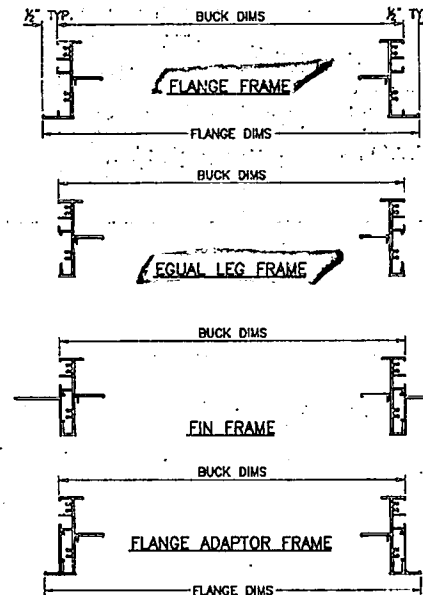
DESIGN LOAD CAPACITY - PSP							
FLANGE DIMS.		BUCK DIMS.		GLASS TYPES 'C' & 'C1'		GLASS TYPES 'D' & 'D1'	
WIDTH (W)	LENGTH (L)	WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	114"	23"	113"	80.0	80.0	80.0	80.0
30"		29"		80.0	80.0	80.0	80.0
36"		35"		73.0	73.0	80.0	80.0
41"		40"		61.4	61.4	80.0	80.0
24"	120"	23"	119"	80.0	80.0	80.0	80.0
30"		29"		80.0	80.0	80.0	80.0
36"		35"		72.4	72.4	80.0	80.0
39"		38"		65.9	65.9	80.0	80.0
24"	121"	23"	120"	80.0	80.0	80.0	80.0
30"		29"		80.0	80.0	80.0	80.0
36"		35"		72.3	72.3	80.0	80.0
39"		38"		65.8	65.8	80.0	80.0

DESIGN LOAD CAPACITY - PSP							
FLANGE DIMS.		BUCK DIMS.		GLASS TYPES 'C' & 'C1'		GLASS TYPES 'D' & 'D1'	
WIDTH (W)	LENGTH (L)	WIDTH (W)	LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	25"	18-1/8"	25"	80.0	80.0	80.0	80.0
26-1/2"		25-1/2"		80.0	80.0	80.0	80.0
37"		36"		80.0	80.0	80.0	80.0
48"		47"		80.0	80.0	80.0	80.0
53-1/8"		52-1/8"		80.0	80.0	80.0	80.0
61"	37-3/8"	60"	37-3/8"	80.0	80.0	80.0	80.0
19-1/8"		18-1/8"		80.0	80.0	80.0	80.0
26-1/2"		25-1/2"		80.0	80.0	80.0	80.0
37"		36"		80.0	80.0	80.0	80.0
48"		47"		77.1	77.1	80.0	80.0
53-1/8"	49-5/8"	52-1/8"	49-5/8"	77.1	77.1	80.0	80.0
61"		60"		77.1	77.1	80.0	80.0
19-1/8"		18-1/8"		80.0	80.0	80.0	80.0
26-1/2"		25-1/2"		80.0	80.0	80.0	80.0
37"		36"		80.0	80.0	80.0	80.0
48"	62"	47"	62"	61.3	61.3	80.0	80.0
53-1/8"		52-1/8"		55.3	55.3	73.7	73.7
61"		60"		48.0	48.0	64.0	64.0
75-1/4"		74-1/4"		46.5	46.5	61.9	61.9
19-1/8"	75"	18-1/8"	75"	80.0	80.0	80.0	80.0
26-1/2"		25-1/2"		80.0	80.0	80.0	80.0
37"		36"		78.9	78.9	80.0	80.0
48"		47"		61.3	61.3	80.0	80.0
53-1/8"		52-1/8"		55.3	55.3	73.7	73.7
61"	75"	60"	75"	48.0	48.0	64.0	64.0
75-1/4"		74-1/4"		46.5	46.5	61.9	61.9
19-1/8"		18-1/8"		80.0	80.0	80.0	80.0
26-1/2"		25-1/2"		80.0	80.0	80.0	80.0
37"		36"		78.9	78.9	80.0	80.0

ANCHOR SPACING TO BE AS PER SHEETS 1 & 1.1



NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.



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

Engr. JAWAD AHMAD
CML
FLA. PE # 70592
C.A.M. 3538

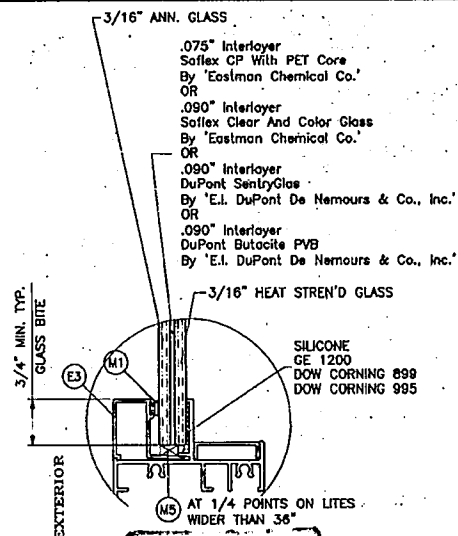
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0413.03
Expiration Date 5/31/2020
By: *Manuel Proa*
Miami Dade Product Control

AL-FAROOQ CORP.
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-9100 FAX (305) 262-6978
COMP-ANIL W10-02CG

SERIES SENTINEL 130 ALUM. FIXED WINDOW (L.M.I.) (S.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

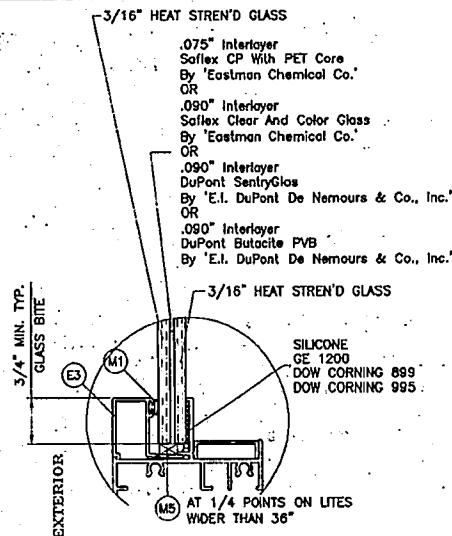
NO.	DATE	BY	DESCRIPTION
1	02/28/11	W.M.	SIZES ADDED
2	10/10/11	D	NO CHANGE THIS SHEET
3	07/21/14	E	UPDATED TO 2014 FBC
4	04/10/15	F	NO CHANGE THIS SHEET

Revisions:
date: 01-30-10
scale: 1
dr. by:
chk. by:
drawing no.
W10-02
sheet 2 of 6

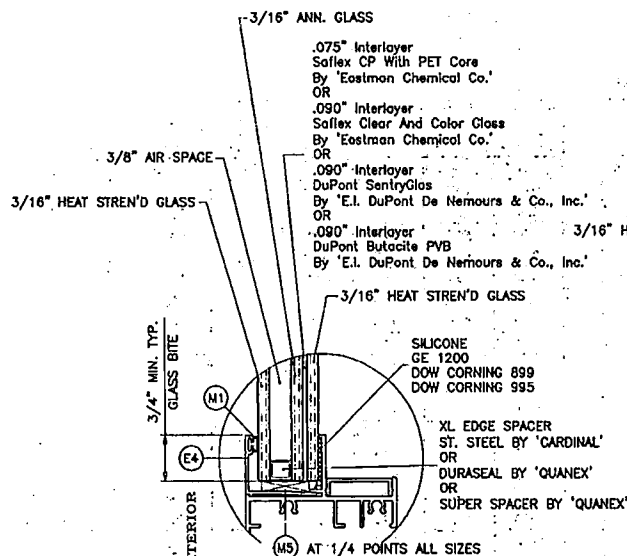


GLASS TYPE 'C'
7/16" OVERALL LAM. GLASS

(L.M.I. & S.M.I.)

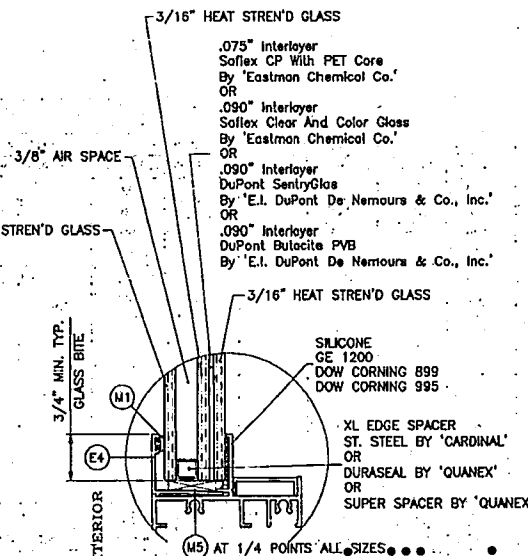


GLASS TYPE 'D'
7/16" OVERALL LAM. GLASS



GLASS TYPE 'C1'
1" OVERALL INSUL. LAM. GLASS

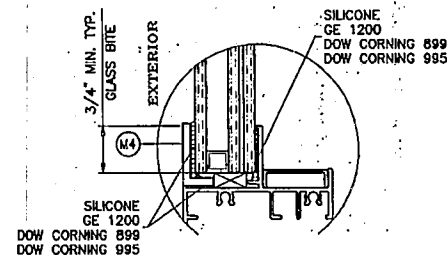
(L.M.I. ONLY)



GLASS TYPE 'D1'
1" OVERALL INSUL. LAM. GLASS

(S.M.I.)

IN ORDER TO QUALIFY FOR SMALL MISSILE IMPACT RATING
EXTERIOR PLY OF GLASS TYPE 'C1' & 'D1' MUST BE TEMPERED.



OPTIONAL GLAZING DETAIL
GLASS TYPES 'C1' & 'D1'

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3836
MAY 04 2016

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0413.03
Expiration Date Sept 30, 2020
By *Manuel E. [Signature]*
Miami Code Product Control

AL-FAROQQ CORP.
ENGINEERS & PRODUCT DEVELOPMENT
2235 S.W. 87th Ave.
MIAMI, FLORIDA 33174
TEL (305) 264-6100 FAX (305) 262-6978
COMP-ANL W10-02CGI

SERIES SENTINEL 130 ALUM. FIXED WINDOW (L.M.I.) (S.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

REVISIONS:	NO.	DATE	BY	DESCRIPTION
	C	02.28.11		NO CHANGE THIS SHEET
	D	10.10.11		NO CHANGE THIS SHEET
	E	07.21.14		UPDATED TO 2014 FBC
	F	04.10.15		INTER-LAYER & SPACER REV.

date: 01-30-10
scale: 1/2" = 1"
dr. by:
chk. by:
drawing no.
W10-02
sheet 3 of 6

TYPICAL INSTALLATION DETAILS

THESE DETAILS ARE TYPICAL ON ALL FOUR SIDES OF WINDOW

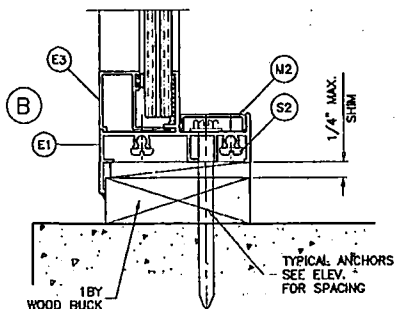
TYPICAL EDGE DISTANCE

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

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

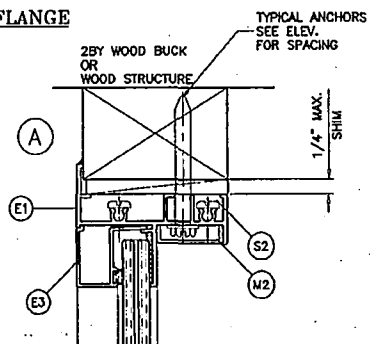
INSTALLATION DETAILS THRU 1X WOOD BUCKS INTO CONCRETE

FLANGE



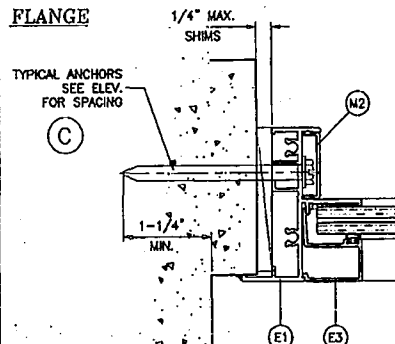
INSTALLATION DETAILS THRU 2X BUCKS OR INTO WOOD STRUCTURES

FLANGE



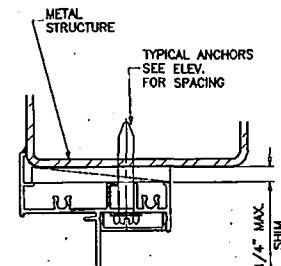
INSTALLATION DETAILS DIRECTLY INTO CONCRETE

FLANGE

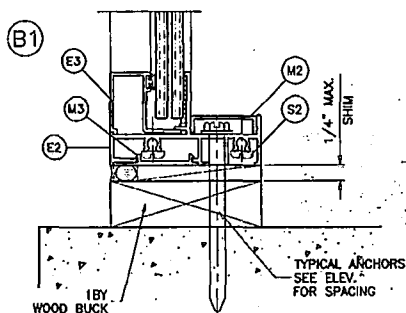


INSTALLATION DETAILS INTO METAL STRUCTURES OR INTO APPROVED MULLIONS

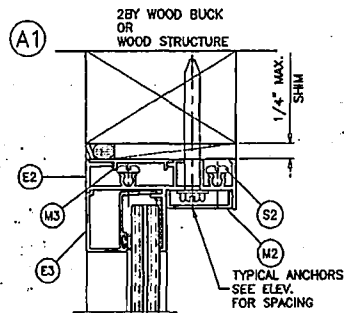
FLANGE



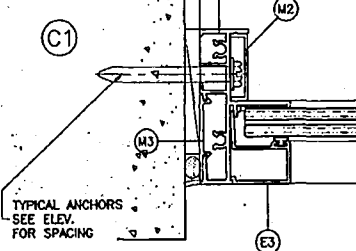
EQUAL LEG



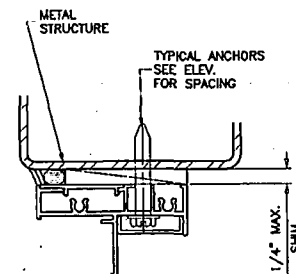
EQUAL LEG



EQUAL LEG



EQUAL LEG



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. TAPCON BY ITW (Fu=120 KSI, Fy=92 KSI)

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

THRU 1BY BUCKS INTO CONC. OR MASONRY

1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY

1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO METAL STRUCTURES

STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)

ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK = .090")
(NO SHIM SPACE)

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

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 1538

MAY 10 4 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0419.09
Expiration Date Sep 22, 2020
By: [Signature]
Miami Dade Product Control

AL-FAROOQ CORP.
ENGINEERS & PRODUCT DEVELOPMENT
1228 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-6100 FAX (305) 262-6978
COMP-ANL W10-02CGI

SERIES SENTINEL 130 ALUM FIXED WINDOW (L.M.I.) (S.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

NO	DATE	BY	DESCRIPTION
C	02.28.11		NO CHANGE THIS SHEET
D	10.10.11		NO CHANGE THIS SHEET
E	07.21.14		UPDATED TO 2014 FBC
F	04.10.15		NO CHANGE THIS SHEET

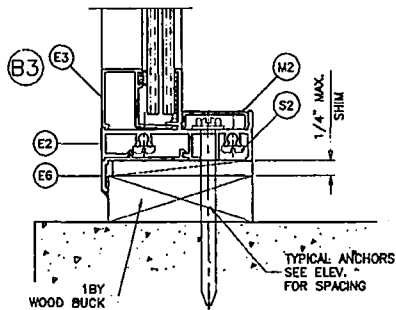
Revisions:
Date: 01-30-10
Scale: 1/2" = 1"
Dr. by: [Signature]
Pkg. by: [Signature]
Drawing no.
W10-02
Sheet 4 of 6

TYPICAL INSTALLATION DETAILS

THESE DETAILS ARE TYPICAL ON ALL FOUR SIDES OF WINDOW

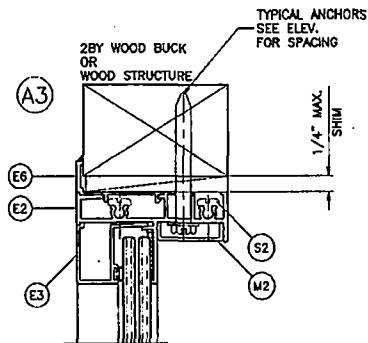
INSTALLATION DETAILS THRU 1X
WOOD BUCKS INTO CONCRETE

FLANGE ADAPTOR



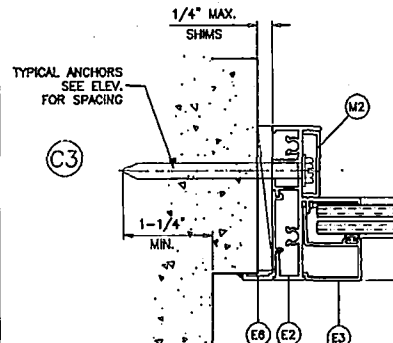
INSTALLATION DETAILS THRU 2X
BUCKS OR INTO WOOD STRUCTURES

FLANGE ADAPTOR



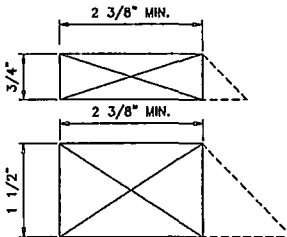
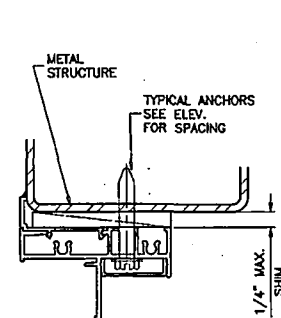
INSTALLATION DETAILS
DIRECTLY INTO CONCRETE

FLANGE ADAPTOR



INSTALLATION DETAILS INTO METAL
STRUCTURES OR INTO APPROVED MULLIONS

FLANGE ADAPTOR

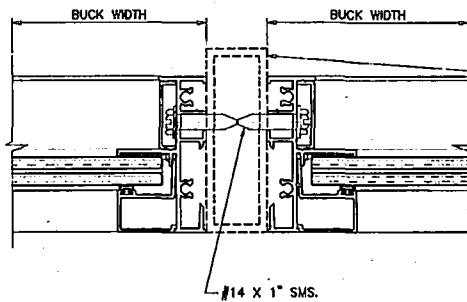
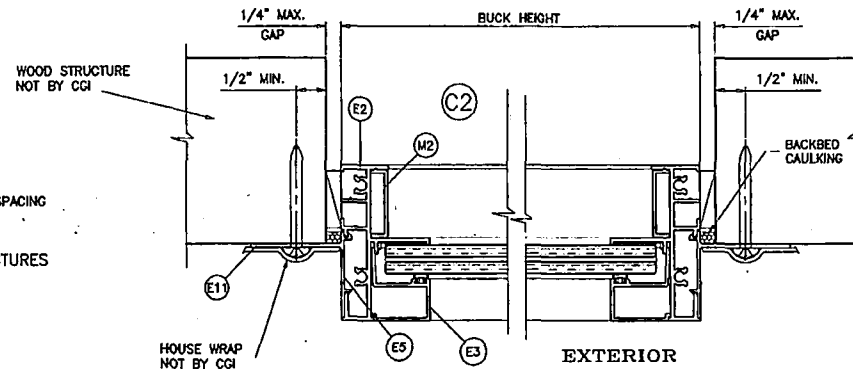


WHEN USED THE MIN. WOOD
BUCK DEPTH SHALL BE 2 3/8\"/>

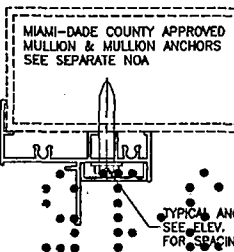
PIN FRAME

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#8 SMS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/4\"/>



MIAMI-DADE COUNTY
APPROVED MULLION
& MULLION ANCHORS
SEE SEPARATE NOA



Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

MAY 04 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-0413.03
Expiration Date Sep. 22, 2020
By: *Mamad M. M.*
Miami Dade Product Control

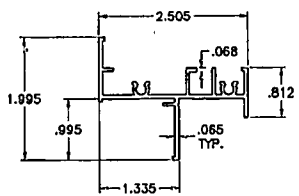
af c
AL-FAROOQ CORP.
ENGINEERS & PRODUCT DEVELOPMENT
4200 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-5100 FAX (305) 262-6978
COMP-ANL W10-02CG

SERIES SENTINEL 130 ALUM FIXED WINDOW (L.M.I.) (S.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

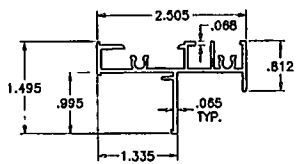
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C	02.28.11		NO CHANGE THIS SHEET
D	10.10.11		NO CHANGE THIS SHEET
E	07.21.14		UPDATED TO 2014 FBC
F	04.10.15		NO CHANGE THIS SHEET

date: 01-30-10
scale: 1/2" = 1"
dr. by:
chk. by:

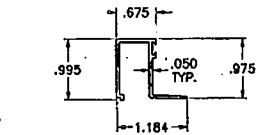
drawing no.
W10-02
sheet 5 of 6



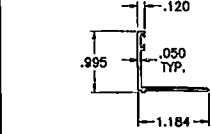
E1 FLANGE FRAME



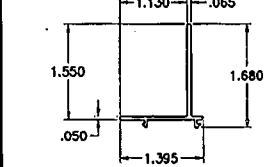
E2 FLUSH FRAME/FIN FRAME



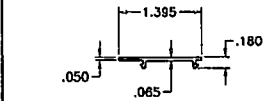
E3 GLAZING BEAD (LAM. GLASS)



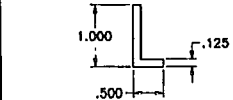
E4 GLAZING BEAD (LAM. INSUL. GLASS)



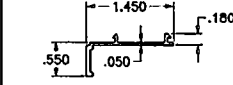
E5 NAIL FIN ADAPTOR



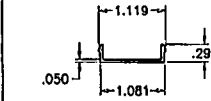
M3 FLUSH FRAME COVER



M4 GLAZING ANGLE (LAM. INSUL. GLASS)

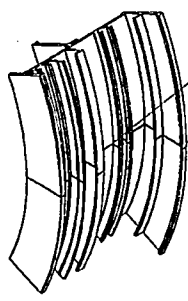


E6 FLANGE ADAPTOR

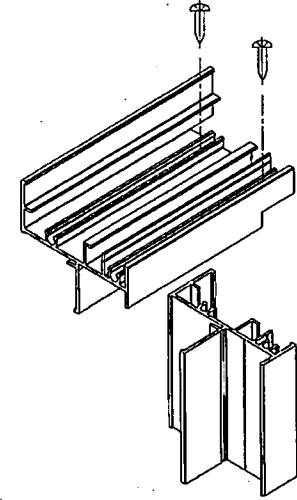


M2 SCREW COVER

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	CGI-118	4/ WDW.	FLANGE FRAME	6063-T6	-
E2	CGI-119	4/ WDW.	FLUSH FRAME/FIN FRAME	6063-T6	-
E3	CGI-121	4/ WDW.	GLAZING BEAD (LAM. GLASS)	6063-T6	-
E4	CGI-123	4/ WDW.	GLAZING BEAD (LAM. INSUL. GLASS)	6063-T6	-
E5	CGI-110	4/ WDW.	NAIL FIN ADAPTOR	6063-T6	-
E6	CGI-109	4/ WDW.	FRONT FLANGE ADAPTOR	6063-T6	-
M1	CGI-382V	AS REQD.	GLAZING BULB VINYL	PVC	DUROMETER 75-80 SHORE A
M2	CGI-124	AS REQD.	SCREW COVER- OPTIONAL	PVC	-
M3	CGI-112	AS REQD.	FLUSH FRAME COVER	PVC	-
M4	-	OPTIONAL	GLAZING ANGLE (1 X 1/2 X 1/8")	6063-T5	-
M5	-	2/ LITE	SETTING BLOCKS	EPDM	DUROMETER 65±5 SHORE A
S2	#10 X 1-1/4"	2/ CORNER	ASSEMBLY SCREW PHL. PH SMS	ST/ST	-

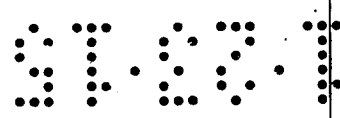


CIRCULAR WINDOWS



RECT. OR SQUARE WINDOWS

TYP. CORNER DETAILS



Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
DATE: 10/10/2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0413 03
Expiration Date Sept. 22, 2020
By: [Signature]
Miami Dade Product Control

AL-FAROOG CORP.
ENGINEERS & PRODUCT DEVELOPMENT
12325 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-6100 FAX (305) 263-0978
COMP-ANL W10-02CGI

SERIES SENTINEL 130 ALUM FIXED WINDOW (L.M.I.) (S.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

REV	DATE	BY	DESCRIPTION
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Revised: 01-30-10
Scale: 1/2" = 1"
Dr. by: [Signature]
Chk. by: [Signature]
drawing no. W10-02
sheet 6 of 6



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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

www.miamidade.gov/economy

CGI Windows and Doors, Inc.
10100 NW 25th Street
Miami, FL 33172

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 "410" Aluminum Fixed Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. W08-95, titled "Series 410 Fixed Window (L.M.I.)", sheets 1 through 9 of 9, dated 12/04/08, with revision E dated 05/01/15, 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: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/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# 14-0224.14 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

MP
8/27/15

NOA No. 15-0512.12
Expiration Date: June 03, 2019
Approval Date: September 03 2015
Page 1

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No.09-0127.17)
2. Drawing No W08-95, titled "Series 410 Fixed Window (L.M.I.)", sheets 1 through 9 of 9, dated 12/04/08, with revision E dated 05/01/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 7500 PVC fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WA, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 7400 PVC project out window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WB, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 238 aluminum fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WC, dated 04/16/15, signed and sealed by Ramesh C. Patel, P.E.
4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum fixed windows, prepared by Hurricane Test Laboratory, LLC, Test Report No. HTL-0080-0504-08, (Specimen 15) dated 12/18/08, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No.09-0127.17)


Manuel Perez, P.E.

Product Control Examiner
NOA No. 15-0512.12

Expiration Date: June 03, 2019

Approval Date: September 03 2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Small Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum fixed windows,
prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0080-0504-08**,
dated 11/13/08, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No.09-0127.17)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, dated 06/03/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under previous NOA No.14-0224.14)
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. 14-0916.11 issued to **Kuraray America, Inc.** for their "SentryGlas® (Clear and White) Glass Interlayers" dated 06/25/15, expiring on 07/04/18.
2. Notice of Acceptance No. 14-0423.15 issued to **Eastman Chemical Company (MA)** for their "Saflex CP – Saflex and Saflex HP Composite Glass Interlayers with PET Core" dated 06/19/14, expiring on 12/11/18.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.12
Expiration Date: June 03, 2019
Approval Date: September 03 2015

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated 06/05/14, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under previous NOA No.14-0224.14)
2. Laboratory compliance letters for Test Report No. **HTL-0080-0504-08** (Specimen 15), issued by Hurricane Test Laboratory, Inc., dated 12/18/08, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 09-0127.17)
3. Laboratory compliance letters for Test Report No. **HTL-0080-0504-08**, issued by Hurricane Test Laboratory, Inc., dated 11/13/08, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 09-0127.17)
4. Test Proposal for the qualification of **Butacite®** PVB glass interlayer by **DuPont** as well as **Duraseal®** and **Super Spacer® Standard** warm-edge flexible insulating glass spacers, dated December 16, 2014, issued by RER, Product Control Section, signed by Jaime Gascon, P.E., Supervisor, Product Control Section.

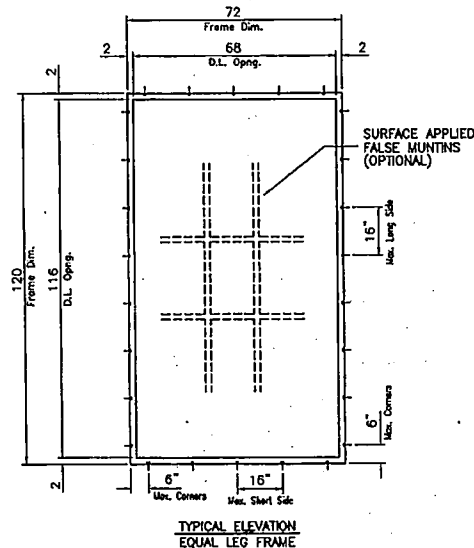
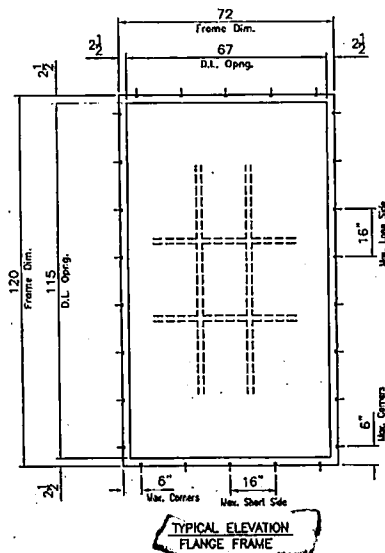
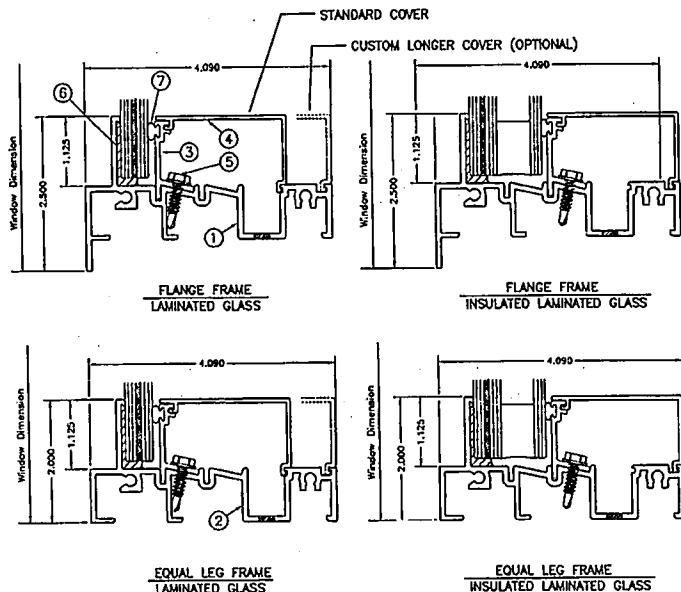
G. OTHERS

1. Notice of Acceptance No. **14-0224.14**, issued to CGI Windows & Doors for their Series "410" Aluminum Fixed Window - L.M.I. approved on 06/12/14 and expiring on 06/03/19.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.12
Expiration Date: June 03, 2019
Approval Date: September 03 2015

AVAILABLE FRAME TYPES

Same frame used on all four sides



SERIES 410 FIXED WINDOWS

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIX./FIX. OR FIXED WITH OTHER MIAMI-DADE COUNTY APPROVED 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 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

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

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

INSTRUCTIONS FOR USING CAPACITY CHARTS:

- STEP 1 DETERMINE THE REQUIRED DESIGN PRESSURES FOR A GIVEN WINDOW OPENING.
- STEP 2 DETERMINE THE CAPACITY OF THE WINDOW SIZE/CONFIGURATION/GLASS TYPE FROM CHARTS ON SHEETS 2 AND 3.
FOR INSTALLATION ANCHOR TYPES SEE SHEET 4.
- STEP 3 IF ALUMINUM BUCKS ARE USED, VERIFY THE BUCK INSTALLATION CAPACITY FROM SHEET 5.
- STEP 4 FOR UNCLIPPED MULLED WINDOWS DETERMINE MULLION CAPACITY FOR 1X4 AND 2X6 TUBES FROM CHARTS ON SHEETS 5 & 7.
- STEP 5 FOR MULLION ANCHOR CAPACITY SEE CHART ON SHEET 6.

THE LOWEST SELECTED VALUE SHALL BE TO THE INSTALLATION AND MUST EQUAL OR EXCEED THE REQUIRED DESIGN PRESSURES OBTAINED FROM STEP 1.

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

Engr: JAWAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

MAY 27 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0512.12
Expiration Date: June 3, 2019
By: *Manuel P...*
Miami Dade Product Control

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W08-9508

SERIES 410 FIXED WINDOW (L.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

NO	DATE	BY	DESCRIPTION
A	04.05.08		NO CHANGE THIS SHEET
B	12.29.11		UPDATED TO 2010 FBC
C	02.10.14		NO CHANGE THIS SHEET
D	06.03.14		REV. PER REVISION COMMENTS
E	05.01.15		NO CHANGE THIS SHEET

drawing no.
W08-95
sheet 1 of 9

DESIGN LOAD CAPACITY - PSF									
DW. 1 INCHES	DW. 2 INCHES	GLASS TYPE 1				GLASS TYPE 2			
		ANCHOR OPTION 1		ANCHOR OPTION 2		ANCHOR OPTION 1		ANCHOR OPTION 2	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	48	120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
36		120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
42		120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
48		120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
51		116.5	116.5	116.5	116.5	133.0	150.0	133.0	150.0
54		110.4	110.4	110.4	110.4	133.0	150.0	133.0	150.0
57		105.9	105.9	105.9	105.9	133.0	150.0	133.0	150.0
60		100.6	100.6	100.6	100.6	125.1	125.1	133.0	150.0
63		95.7	95.7	95.7	95.7	114.7	114.7	133.0	150.0
66		91.1	91.1	91.1	91.1	132.3	132.3	133.0	150.0
69		86.8	86.8	86.8	86.8	122.9	122.9	130.6	147.3
72		82.8	82.8	82.8	82.8	114.7	114.7	127.5	143.8
75	60	77.3	77.3	77.3	77.3	107.5	107.5	124.7	140.6
30		120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
36		120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
42		115.5	115.5	115.5	115.5	133.0	143.0	133.0	150.0
48		105.9	105.9	105.9	105.9	133.0	137.6	133.0	150.0
51		101.5	101.5	101.5	101.5	133.0	136.3	133.0	150.0
54		97.3	97.3	97.3	97.3	133.0	135.9	133.0	150.0
57		92.7	92.7	92.7	92.7	122.3	122.3	133.0	150.0
60		88.5	88.5	88.5	88.5	111.2	111.2	133.0	150.0
63		84.4	84.4	84.4	84.4	127.4	127.4	129.3	145.8
66		80.6	80.6	80.6	80.6	117.6	117.6	125.0	141.0
69		77.1	77.1	77.1	77.1	109.2	109.2	118.9	118.9
72		73.9	73.9	73.9	73.9	101.9	101.9	118.9	118.9
75	72	120.0	148.8	120.0	150.0	133.0	146.8	133.0	150.0
30		120.0	121.1	120.0	121.1	131.0	131.0	133.0	150.0
36		104.5	104.5	104.5	104.5	121.0	121.0	133.0	150.0
42		95.7	95.7	95.7	95.7	114.7	114.7	133.0	150.0
48		91.9	91.9	91.9	91.9	112.6	112.6	133.0	150.0
51		88.5	88.5	88.5	88.5	111.2	111.2	133.0	150.0
54		85.8	85.8	85.8	85.8	110.4	110.4	133.0	150.0
57		82.8	82.8	82.8	82.8	110.1	110.1	133.0	150.0
60		79.4	79.4	79.4	79.4	107.0	107.0	107.0	107.0
63		76.2	76.2	76.2	76.2	107.0	107.0	107.0	107.0
66		75.0	75.0	75.0	75.0	105.8	105.8	107.0	107.0
69		72.0	72.0	72.0	72.0	98.3	98.3	107.0	107.0
72	84	120.0	145.8	120.0	145.8	133.0	150.0	133.0	150.0
30		111.2	111.2	111.2	111.2	133.0	143.3	133.0	150.0
36		95.6	95.6	95.6	95.6	131.0	131.0	133.0	150.0
42		86.8	86.8	86.8	86.8	122.9	122.9	130.6	147.3
48		82.7	82.7	82.7	82.7	119.9	119.9	127.5	143.8
51		80.6	80.6	80.6	80.6	117.6	117.6	125.0	141.0
54		78.4	78.4	78.4	78.4	112.6	112.6	112.6	112.6
57		76.2	76.2	76.2	76.2	107.0	107.0	107.0	107.0
60		75.2	75.2	75.2	75.2	101.9	101.9	101.9	101.9
63		72.4	72.4	72.4	72.4	97.3	97.3	97.3	97.3
66		69.8	69.8	69.8	69.8	97.3	97.3	97.3	97.3
69		67.4	67.4	67.4	67.4	98.2	98.2	97.3	97.3
72	96	120.0	138.1	120.0	138.1	133.0	144.8	133.0	150.0
30		103.2	103.2	103.2	103.2	127.4	127.4	133.0	150.0
36		87.2	87.2	87.2	87.2	115.6	115.6	133.0	150.0
42		77.3	77.3	77.3	77.3	107.5	107.5	124.7	140.6
48		75.8	75.8	75.8	75.8	104.4	104.4	125.9	125.9
51		73.9	73.9	73.9	73.9	101.9	101.9	118.9	118.9
54		74.5	74.5	74.5	74.5	99.9	99.9	112.6	112.6
57		72.0	72.0	72.0	72.0	98.3	98.3	107.0	107.0
60		69.6	69.6	69.6	69.6	97.1	97.1	101.9	101.9
63		67.4	67.4	67.4	67.4	96.2	96.2	97.3	97.3
66		65.0	65.0	65.0	65.0	93.0	93.0	93.0	93.0
69		63.4	63.4	63.4	63.4	90.2	90.2	98.2	98.2

DESIGN LOAD CAPACITY - PSF																	
DW. 1 INCHES	DW. 2 INCHES	GLASS TYPE 1								GLASS TYPE 2							
		ANCHOR OPTION 1				ANCHOR OPTION 2				ANCHOR OPTION 1				ANCHOR OPTION 2			
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)				
30	72	120.0	130.9	120.0	130.9	133.0	150.0	133.0	150.0								
36		97.0	97.0	97.0	97.0	133.0	137.6	133.0	150.0								
42		80.0	80.0	80.0	80.0	124.2	124.2	130.0	146.8								
48		71.1	71.1	71.1	71.1	114.7	114.7	132.8	132.8								
51		69.8	69.8	69.8	69.8	111.0	111.0	125.9	125.9								
54		70.7	70.7	70.7	70.7	107.9	107.8	118.9	118.9								
57		68.4	68.4	68.4	68.4	105.3	105.3	112.6	112.6								
60		66.4	66.4	66.4	66.4	103.2	103.2	107.0	107.0								
63		65.4	65.4	65.4	65.4	101.9	101.9	101.9	101.9								
66		63.4	63.4	63.4	63.4	97.3	97.3	97.3	97.3								
69		61.3	61.3	61.3	61.3	93.0	93.0	93.0	93.0								
72		59.3	59.3	59.3	59.3	89.2	89.2	89.2	89.2								
30	84	120.0	125.7	120.0	125.7	133.0	143.8	133.0	150.0								
36		91.6	91.6	91.6	91.6	125.1	125.1	133.0	150.0								
42		70.7	70.7	70.7	70.7	112.3	112.3	126.7	141.4								
48		66.1	66.1	66.1	66.1	103.2	103.2	128.7	128.7								
51		67.4	67.4	67.4	67.4	99.8	99.6	124.3	124.3								
54		64.8	64.8	64.8	64.8	96.8	96.6	118.9	118.9								
57		62.8	62.8	62.8	62.8	94.0	94.0	112.6	112.6								
60		62.0	62.0	62.0	62.0	91.7	91.7	107.0	107.0								
63		60.3	60.3	60.3	60.3	89.9	89.9	101.9	101.9								
66		58.6	58.6	58.6	58.6	88.3	88.3	97.3	97.3								
69		-	-	-	-	75.0	75.0	75.0	75.0								
72		-	-	-	-	75.0	75.0	75.0	75.0								
30	90	120.0	125.2	120.0	125.2	132.1	132.1	133.0	150.0								
36		86.7	86.7	86.7	86.7	114.7	114.7	133.0	150.0								
42		67.7	67.7	67.7	67.7	102.6	102.6	133.0	139.5								
48		65.2	65.2	65.2	65.2	93.8	93.8	125.4	125.4								
51		62.1	62.1	62.1	62.1	90.4	90.4	120.8	120.8								
54		59.8	59.8	59.8	59.8	87.4	87.4	118.8	118.8								
57		58.7	58.7	58.7	58.7	84.8	84.8	112.8	112.8								
60		57.0	57.0	57.0	57.0	82.6	82.6	107.0	107.0								
63		55.2	55.2	55.2	55.2	80.6	80.6	101.9	101.9								
66		-	-	-	-	76.0	76.0	75.0	75.0								
69		-	-	-	-	75.0	76.0	75.0	75.0								
72		-	-	-	-	75.0	75.0	75.0	75.0								
30	96	120.0	123.6	120.0	123.6	133.0	142.7	133.0	150.0								
36		77.3	77.3	77.3	77.3	123.5	123.5	133.0	150.0								
42		65.2	65.2	65.2	65.2	110.1	110.1	130.5	130.5								
48		60.6	60.6	60.6	60.6	100.3	100.3	121.3	121.3								
51		58.6	58.8	58.8	58.8	98.4	98.4	117.3	117.3								
54		56.0	56.0	56.0	56.0	93.1	93.1	112.0	112.0								
57		54.0	54.0	54.0	54.0	90.1	90.1	107.9	107.9								
60		51.8	51.8	51.8	51.8	87.6	87.6	103.6	103.6								
63		-	-	-	-	75.0	75.0	75.0	75.0								
66		-	-	-	-	76.0	75.0	75.0	75.0								
69		-	-	-	-	75.0	75.0	75.0	75.0								
72		-	-	-	-	75.0	75.0	75.0	75.0								
30	102	120.0	121.3	120.0	121.3	132.9	132.9	133.0	150.0								
36		75.8	75.8	75.8	75.8	114.7	114.7	133.0	148.8								
42		65.7	65.7	65.7	65.7	101.8	101.8	131.3	131.3								
48		58.9	58.9	58.9	58.9	92.6	92.6	113.7	113.7								
51		54.4	54.4	54.4	54.4	88.8	88.8	108.7	108.7								
54		51.9	51.9	51.9	51.9	85.6	85.6	103.8	103.8								
57		-	-	-	-	75.0	75.0	75.0	75.0								
60		-	-	-	-	75.0	75.0	75.0	75.0								
63		-	-	-	-	75.0	75.0	75.0	75.0								
66		-	-	-	-	75.0	75.0	75.0	75.0								
69		-	-	-	-	74.5	74.5	75.0	75.0								
72		-	-	-	-	73.0	74.5	75.0	75.0								

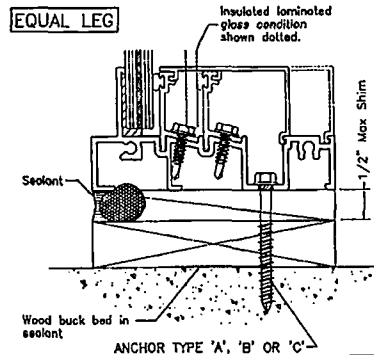
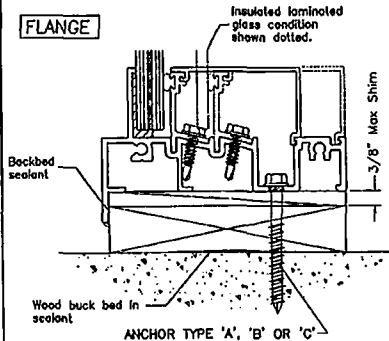
DESIGN LOAD CAPACITY - PSF									
DW. 1 INCHES	DW. 2 INCHES	GLASS TYPE 1A				GLASS TYPE 2A			
		ANCHOR OPTION 1		ANCHOR OPTION 2		ANCHOR OPTION 1		ANCHOR OPTION 2	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	48	120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
36		120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
42		120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
48		120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
51		113.1	113.1	113.1	113.1	133.0	150.0	133.0	150.0
54		107.2	107.2	107.2	107.2	133.0	150.0	133.0	150.0
57		102.9	102.9	102.9	102.9	133.0	150.0	133.0	150.0
60		97.7	97.7	97.7	97.7	125.1	125.1	133.0	150.0
63		92.9	92.9	92.9	92.9	114.7	114.7	133.0	150.0
66		88.4	88.4	88.4	88.4	132.3	132.3	133.0	150.0
69	54	84.3	84.3	84.3	84.3	122.9	122.9	130.8	147.3
72		80.4	80.4	80.4	80.4	114.7	114.7	127.5	143.8
75		75.1	75.1	75.1	75.1	107.5	107.5	124.7	140.6
78		120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
81		120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
84		120.0	150.0	120.0	150.0	133.0	150.0	133.0	150.0
87		112.2	112.2	112.2	112.2	133.0	150.0	133.0	150.0
90		102.9	102.9	102.9	102.9	133.0	150.0	133.0	150.0
93		98.5	98.5	98.5	98.5	133.0	150.0	133.0	150.0
96		94.5	94.5	94.5	94.5	133.0	150.0	133.0	150.0
99	60	90.0	90.0	90.0	90.0	122.3	122.3	133.0	150.0
102		85.9	85.9	85.9	85.9	111.2	111.2	133.0	150.0
105		82.0	82.0	82.0	82.0	127.4	127.4	129.3	145.8
108		78.2	78.2	78.2	78.2	117.6	117.6	125.0	141.0
111		74.9	74.9	74.9	74.9	109.2	109.2	118.9	138.9
114		71.7	71.7	71.7	71.7	101.9	101.9	118.9	138.9
117		120.0	149.5	120.0	149.5	133.0	148.8	133.0	150.0
120		117.6	117.6	117.6	117.6	131.0	131.0	133.0	150.0
123		101.7	101.7	101.7	101.7	121.0	121.0	133.0	150.0
126		92.9	92.9	92.9	92.9	114.7	114.7	133.0	150.0
129	66	89.2	89.2	89.2	89.2	112.6	112.6	133.0	150.0
132		85.9	85.9	85.9	85.9	111.2	111.2	133.0	150.0
135		83.3	83.3	83.3	83.3	110.4	110.4	133.0	150.0
138		80.4	80.4	80.4	80.4	110.1	110.1	133.0	150.0
141		77.0	77.0	77.0	77.0	107.0	107.0	107.0	107.0
144		74.0	74.0	74.0	74.0	107.0	107.0	107.0	107.0
147		72.9	72.9	72.9	72.9	105.8	105.8	107.0	107.0
150		69.9	69.9	69.9	69.9	98.3	98.3	107.0	107.0
153		120.0	141.8	120.0	141.8	133.0	144.8	133.0	150.0
156		109.0	109.0	109.0	109.0	133.0	143.3	133.0	150.0
159	72	92.8	92.8	92.8	92.8	131.0	131.0	133.0	150.0
162		84.3	84.3	84.3	84.3	122.9	122.9	130.8	147.3
165		80.3	80.3	80.3	80.3	119.9	119.9	127.5	143.8
168		78.2	78.2	78.2	78.2	117.6	117.6	125.0	141.0
171		76.1	76.1	76.1	76.1	112.6	112.6	112.6	112.6
174		74.0	74.0	74.0	74.0	107.0	107.0	107.0	107.0
177		73.0	73.0	73.0	73.0	101.9	101.9	101.9	101.9
180		70.3	70.3	70.3	70.3	97.3	97.3	97.3	97.3
183		67.8	67.8	67.8	67.8	97.3	97.3	97.3	97.3
186		65.5	65.5	65.5	65.5	98.2	98.2	97.3	97.3
189	78	120.0	134.1	120.0	134.1	133.0	144.8	133.0	150.0
192		100.2	100.2	100.2	100.2	127.4	127.4	133.0	150.0
195		84.7	84.7	84.7	84.7	115.6	115.6	133.0	150.0
198		79.1	79.1	79.1	79.1	107.5	107.5	124.7	140.6
201		73.4	73.4	73.4	73.4	104.4	104.4	125.9	125.9
204		71.7	71.7	71.7	71.7	101.9	101.9	118.9	118.9
207		72.3	72.3	72.3	72.3	99.9	99.9	112.6	112.6
210		69.9	69.9	69.9	69.9	98.3	98.3	107.0	107.0
213		67.6	67.6	67.6	67.6	97.1	97.1	101.9	101.9
216		65.5	65.5	65.5	65.5	96.2	96.2	97.3	97.3
219	84	64.1	64.1	64.1	64.1	93.0	93.0	93.0	93.0
222		61.6	61.6	61.6	61.6	89.2	89.2	89.2	89.2

DESIGN LOAD CAPACITY - PSF									
DW. 1 INCHES	DW. 2 INCHES	GLASS TYPE 1A				GLASS TYPE 2A			
		ANCHOR OPTION 1		ANCHOR OPTION 2		ANCHOR OPTION 1		ANCHOR OPTION 2	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
30	78	120.0	127.1	120.0	127.1	133.0	150.0	133.0	150.0
36		94.1	94.1	94.1	94.1	133.0	137.6	133.0	150.0
42		77.6	77.6	77.6	77.6	124.2	124.2	130.0	146.6
48		69.1	69.1	69.1	69.1	114.7	114.7	132.8	132.8
51		67.5	67.5	67.5	67.5	111.0	111.0	125.9	125.9
54		66.6	66.6	66.6	66.6	107.9	107.9	118.9	118.9
57		66.4	66.4	66.4	66.4	105.3	105.3	112.6	112.6
60		64.4	64.4	64.4	64.4	103.2	103.2	107.0	107.0
63		63.5	63.5	63.5	63.5	101.5	101.5	101.9	101.9
66		61.6	61.6	61.6	61.6	97.3	97.3	97.3	97.3
69	84	59.5	59.5	59.5	59.5	93.0	93.0	93.0	93.0
72		57.6	57.6	57.6	57.6	89.2	89.2	89.2	89.2
75		120.0	122.1	120.0	122.1	133.0	143.8	133.0	150.0
78		88.9	88.9	88.9	88.9	125.1	125.1	133.0	150.0
81		68.7	68.7	68.7	68.7	112.3	112.3	126.7	142.9
84		64.2	64.2	64.2	64.2	103.2	103.2	128.3	128.3
87		65.4	65.4	65.4	65.4	99.6	99.6	124.3	124.3
90		62.9	62.9	62.9	62.9	96.6	96.6	118.9	118.9
93		61.1	61.1	61.1	61.1	94.0	94.0	112.6	112.6
96		60.2	60.2	60.2	60.2	91.7	91.7	107.0	107.0
99	90	58.5	58.5	58.5	58.5	89.9	89.9	101.9	101.9
102		58.9	58.9	58.9	58.9	88.3	88.3	97.3	97.3
105		57.0	57.0	57.0	57.0	84.8	84.8	112.6	112.6
108		55.3	55.3	55.3	55.3	82.6	82.6	107.0	107.0
111		53.6	53.6	53.6	53.6	80.6	80.6	101.9	101.9
114		51.6	51.6	51.6	51.6	77.0	77.0	75.0	75.0
117		50.3	50.3	50.3	50.3	75.0	75.0	75.0	75.0
120		120.0	121.6	120.0	121.6	132.1	132.1	133.0	150.0
123		84.1	84.1	84.1	84.1	114.7	114.7	133.0	150.0
126		68.8	68.8	68.8	68.8	102.6	102.6	131.5	131.5
129	96	63.3	63.3	63.3	63.3	93.8	93.8	125.4	125.4
132		60.3	60.3	60.3	60.3	90.4	90.4	120.6	120.6
135		58.1	58.1	58.1	58.1	87.4	87.4	116.8	116.8
138		57.0	57.0	57.0	57.0	84.8	84.8	112.6	112.6
141		55.3	55.3	55.3	55.3	82.6	82.6	107.0	107.0
144		53.6	53.6	53.6	53.6	80.6	80.6	101.9	101.9
147		51.6	51.6	51.6	51.6	77.0	77.0	75.0	75.0
150		50.3	50.3	50.3	50.3	75.0	75.0	75.0	75.0
153		120.0	120.0	120.0	120.0	133.0	142.7	133.0	150.0
156		75.1	75.1	75.1	75.1	123.5	123.5	133.0	150.0
159	102	63.3	63.3	63.3	63.3	110.1	110.1	126.7	126.7
162		58.9	58.9	58.9	58.9	100.3	100.3	120.0	120.0
165		56.9	56.9	56.9	56.9	98.4	98.4	117.8	117.8
168		54.4	54.4	54.4	54.4	93.1	93.1	113.7	113.7
171		52.4	52.4	52.4	52.4	90.1	90.1	110.1	110.1
174		50.3	50.3	50.3	50.3	87.6	87.6	106.2	106.2
177		48.3	48.3	48.3	48.3	85.0	85.0	102.6	102.6
180		46.3	46.3	46.3	46.3	82.6	82.6	98.4	98.4
183		44.3	44.3	44.3	44.3	80.1	80.1	94.0	94.0
186		42.3	42.3	42.3	42.3	77.6	77.6	90.0	90.0
189	108	40.3	40.3	40.3	40.3	75.1	75.1	85.9	85.9
192		38.3	38.3	38.3	38.3	72.6	72.6	81.9	81.9
195		36.3	36.3	36.3	36.3	70.1	70.1	77.9	77.9
198		34.3	34.3	34.3	34.3	67.6	67.6	73.9	73.9
201		32.3	32.3	32.3	32.3	65.1	65.1	70.9	70.9
204		30.3	30.3	30.3	30.3	62.6	62.6	66.9	66.9
207		28.3	28.3	28.3	28.3	60.1	60.1	62.9	62.9
210		26.3	26.3	26.3	26.3	57.6	57.6	58.9	58.9

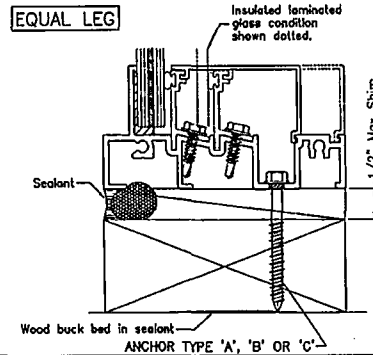
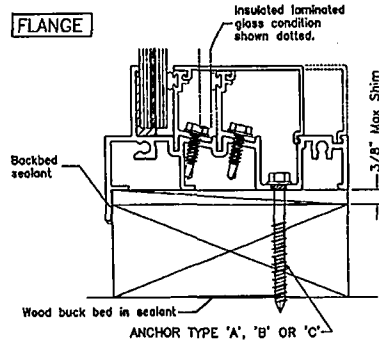
TYPICAL INSTALLATION DETAILS

THESE DETAILS ARE TYPICAL ON ALL FOUR SIDES OF WINDOW

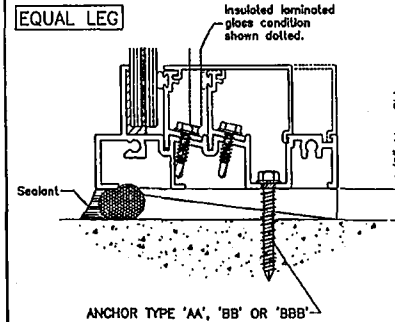
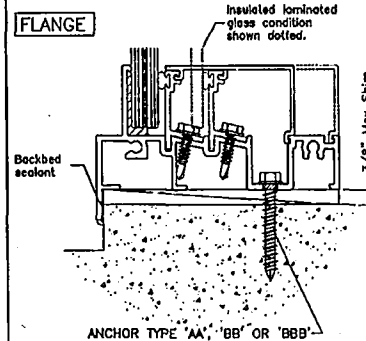
INSTALLATION DETAILS THRU 1X WOOD BUCKS INTO CONCRETE



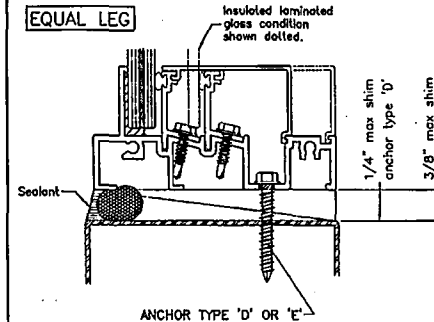
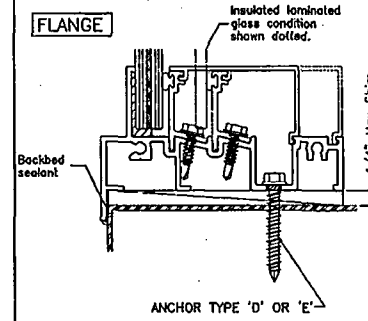
INSTALLATION DETAILS INTO 2X WOOD BUCKS OR INTO WOOD STRUCTURES



INSTALLATION DETAILS DIRECTLY INTO CONCRETE



INSTALLATION DETAILS INTO METAL STRUCTURES OR INTO APPROVED MULLIONS



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'

1/4" DIA. MULTI KWIK-CON II (Fu=183 KSI, Fy=157 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/2" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'AA'

1/4" DIA. MULTI KWIK-CON II (Fu=183 KSI, Fy=157 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE

TYPE 'B'

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
THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/2" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'BB'

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONC. OR MASONRY
1-1/2" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'BBB'

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO MASONRY BLOCK
1-1/2" MIN. EMBED INTO MASONRY

TYPE 'C'

5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/2" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'D'

#14 SMS (GRADE 2 CRS)
INTO METAL STRUCTURES
STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

TYPE 'E'

1/4" DRILL-FLEX SELF DRILLING SCREWS (GRADE 2 CRS)
INTO METAL STRUCTURES
STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")

ANCHOR OPTION I:

ALL ANCHORS AS SHOWN ABOVE.

ANCHOR OPTION II:

ANCHOR TYPES 'A', 'AA', 'C' WITH 1/2" SHIM SPACE
ANCHOR TYPES 'B', 'BB', 'BBB', 'D' & 'E' WITH 1/4" SHIM SPACE

TYPICAL EDGE DISTANCE

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

CONCRETE f'c = 3000 PSI MIN.
MASONRY f'm = 1924 PSI MIN.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3536

MAY 27 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.12
Expiration Date JUNE 3, 2019
By *Manuel Pro*
Miami/Dade Product Control

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-9100 FAX (305) 262-6978
COMP-ANL W08-95061

SERIES 410 FIXED WINDOW (L.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6390 FAX (305) 593-6592

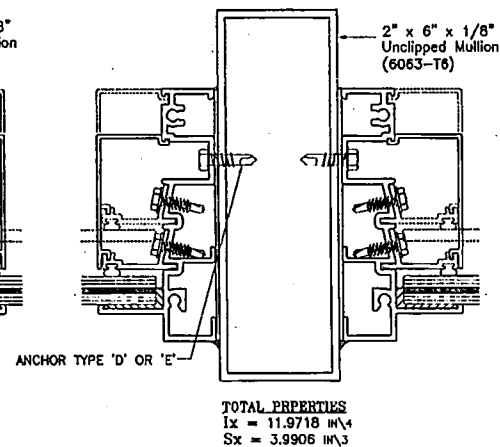
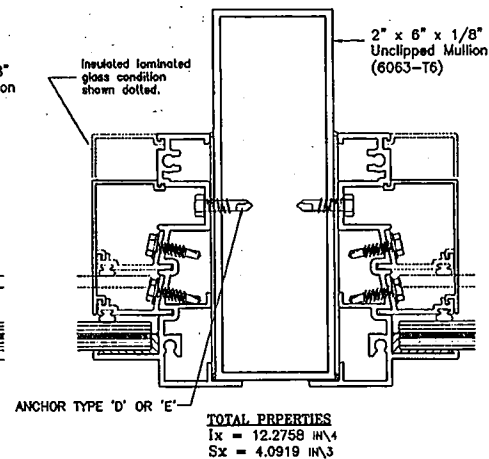
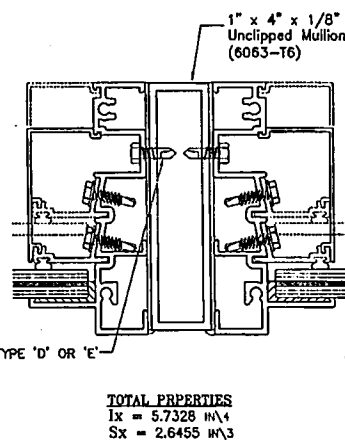
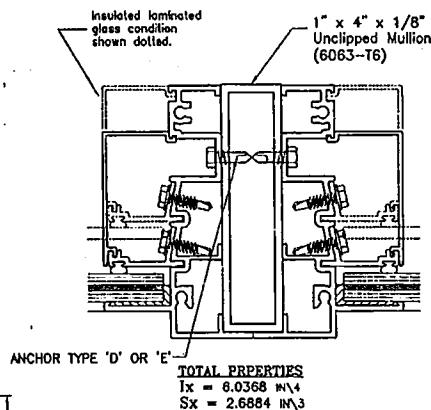
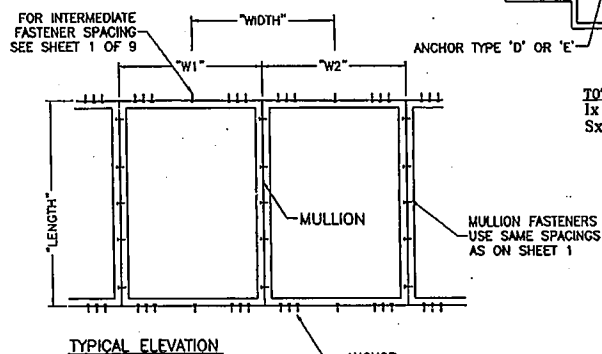
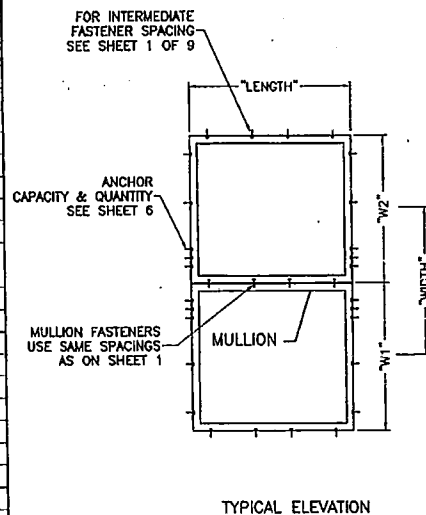
NO.	DATE	BY	DESCRIPTION
A	04.08.09		NO CHANGE THIS SHEET
B	12.29.11		NO CHANGE THIS SHEET
C	02.10.14		NO CHANGE THIS SHEET
D	06.03.14		REV. PER RER COMMENTS
E	06.01.15		NO CHANGE THIS SHEET

Set: 12-04-08
Scale: -
Dr. By: -
C.N. By: -
drawing no.
W08-95
sheet 4 of 9

DESIGN LOAD CAPACITY - PSF (MULLION)			
WINDOW DIMS.		1" X 4" X 1/8" ALUM TUBE	2" X 6" X 1/8" ALUM TUBE
WIDTH	LENGTH	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
36"	72"	150.0	150.0
42"		150.0	150.0
48"		150.0	150.0
54"		148.1	150.0
60"		133.3	150.0
66"		121.2	136.4
72"		111.1	125.0
36"	84"	150.0	150.0
42"		142.1	150.0
48"		127.9	150.0
54"		117.6	142.9
60"		110.0	128.6
66"		103.9	116.9
72"		-	107.1
36"	96"	116.8	150.0
42"		102.3	150.0
48"		91.8	140.6
54"		83.9	125.0
60"		78.1	112.5
66"		-	102.3
72"		-	93.8
36"	102"	-	150.0
42"		-	150.0
48"		-	132.4
54"		-	117.6
60"		-	105.9
66"		-	96.3
72"		-	88.2
36"	108"	-	150.0
42"		-	134.5
48"		-	119.6
54"		-	108.3
60"		-	99.6
66"		-	90.9
72"		-	83.3
36"	114"	-	137.5
42"		-	119.3
48"		-	105.9
54"		-	95.7
60"		-	87.8
66"		-	81.5
72"		-	76.6
36"	120"	-	122.3
42"		-	106.2
48"		-	94.4
54"		-	85.2
60"		-	78.0
66"		-	72.2
72"		-	67.7

ANY SIZE OR DESIGN LOAD LESS THAN CHART IS ALLOWED.

$$\text{Width} = \frac{W1 + W2}{2}$$



510511

MAY 27 2015

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512-12
Expiration Date June 3, 2019
By *Manuel Perez*
Miami Dade Product Control

a f c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
4025 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-9200 FAX. (305) 262-6978
COMP-ANL W08-95CG

SERIES 410 FIXED WINDOW (L.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

REV.	DATE	BY	DESCRIPTION
A	04/26/08	REV. PER BCC COMMENTS	
B	12/29/11	UPDATED TO 2010 FBC	
C	02/10/14	PROPERTIES ADDED	
D	06/03/14	NO CHANGE THIS SHEET	
E	05/01/15	NO CHANGE THIS SHEET	

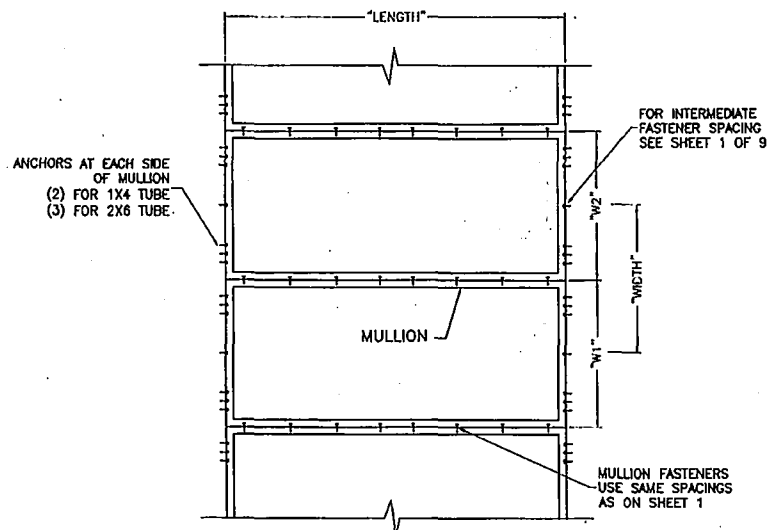
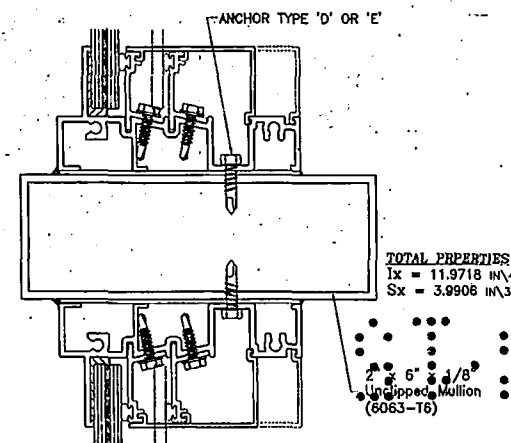
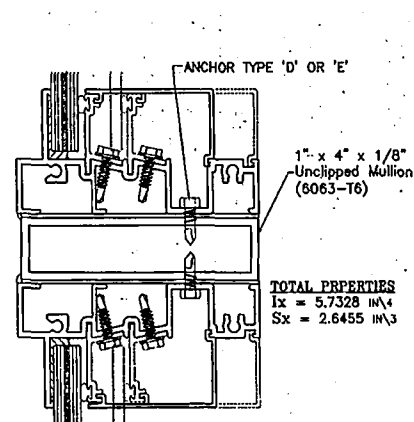
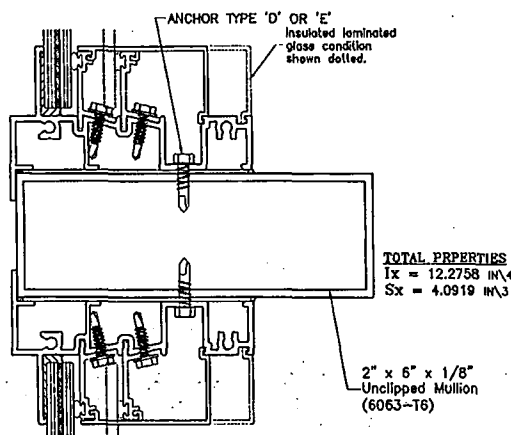
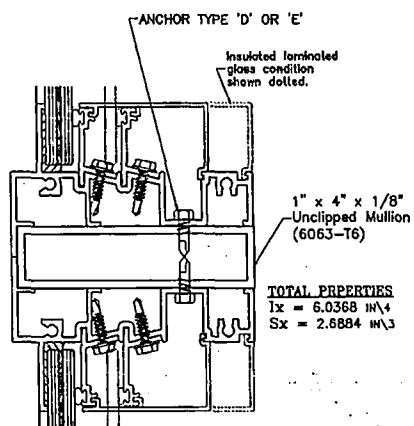
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check: -
drawn by: -
drawing no. W08-95
sheet 5 of 9

DESIGN LOAD CAPACITY - PSF (MULLION) 1" X 4" X 1/8" ALUM TUBE			
WINDOW DIMS.		LAMINATED GLASS	INSUL. LAM. GLASS
WIDTH	LENGTH	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
72"	72"	100.0	80.0
36"	84"	100.0	100.0
48"		90.0	57.0
66"		59.0	37.0

ANY SIZE OR DESIGN LOAD LESS THAN CHART IS ALLOWED.

DESIGN LOAD CAPACITY - PSF (MULLION) 2" X 6" X 1/8" ALUM TUBE			
WINDOW DIMS.		LAMINATED GLASS	INSUL. LAM. GLASS
WIDTH	LENGTH	EXT.(+) & INT.(-)	EXT.(+) & INT.(-)
84"	72"	100.0	100.0
60"	96"	100.0	100.0
84"		75.0	75.0
60"		75.0	72.0
72"	108"	88.0	58.0
48"		75.0	68.0
60"		60.0	51.0
72"	120"	49.0	36.0

ANY SIZE OR DESIGN LOAD LESS THAN CHART IS ALLOWED.



TYPICAL ELEVATION

$$\text{Width} = \frac{W1 + W2}{2}$$

$$W2 \leq W1$$

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70592
CAN. 3538

MAY 27 2019

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.12
Expiration Date June 3, 2019

By *Mamuel J. J...*
Miami Dade Product Control

af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W08-95CGI

SERIES 410 FIXED WINDOW (L.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

NO	DATE	BY	DESCRIPTION
A	04.05.09	REV. PER ICCO COMMENTS	
B	12.29.11	UPDATED TO 2010 FBC	
C	02.10.14	PROPERTIES ADDED	
D	06.03.14	NO CHANGE THIS SHEET	
E	05.01.15	NO CHANGE THIS SHEET	

date: 12-04-08
scale: -
dr. by: -
chk. by: -

drawing no.
W08-95

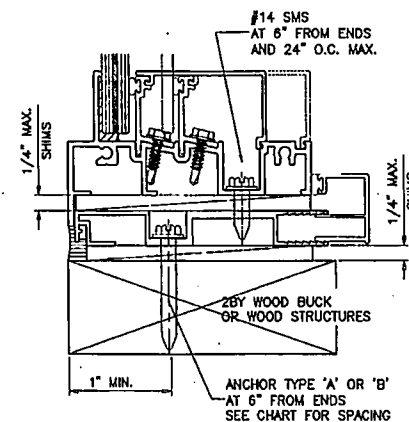
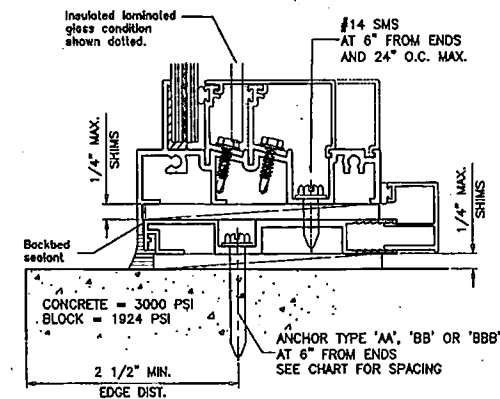
sheet 7 of 9

DESIGN LOAD CAPACITY - PSF					DESIGN LOAD CAPACITY - PSF					DESIGN LOAD CAPACITY - PSF				
WINDOW DIMS.		ANCHOR TYPES		ANCHOR TYPE	WINDOW DIMS.		ANCHOR TYPES		ANCHOR TYPE	WINDOW DIMS.		ANCHOR TYPES		ANCHOR TYPE
DIM. 1	DIM. 2	'A', 'B', 'AA', 'BB'	'BBB'	AT 16" O.C.	DIM. 1	DIM. 2	'A', 'B', 'AA', 'BB'	'BBB'	AT 16" O.C.	DIM. 1	DIM. 2	'A', 'B', 'AA', 'BB'	'BBB'	AT 16" O.C.
30"	48"	150.0	150.0	150.0	30"	78"	150.0	150.0	119.8	30"	108"	146.7	150.0	94.7
36"		150.0	150.0	139.7	36"		150.0	150.0	104.8	36"		126.3	150.0	81.5
42"		150.0	150.0	133.1	42"		146.5	150.0	94.6	42"		112.0	150.0	72.3
48"		150.0	150.0	131.0	48"		135.3	150.0	87.3	48"		101.5	150.0	65.5
51"		150.0	150.0	116.4	51"		131.0	150.0	84.5	51"		97.3	150.0	62.8
57"		150.0	150.0	95.3	57"		124.3	150.0	80.2	57"		90.3	150.0	58.3
60"		150.0	150.0	87.3	60"		121.8	150.0	78.6	60"		87.4	150.0	56.4
63"		150.0	150.0	100.8	63"		119.7	150.0	77.3	63"		84.9	150.0	54.8
66"		150.0	150.0	93.6	66"		118.1	150.0	76.2	66"		82.7	150.0	53.4
69"		150.0	150.0	87.3	69"		116.0	150.0	75.4	69"		80.7	149.9	52.1
72"		150.0	150.0	81.9	72"		116.0	150.0	74.9	72"		78.9	146.8	50.9
30"		54"	150.0	150.0	129.0		30"	84"	150.0	150.0		109.4	30"	114"
36"	150.0		150.0	116.4	36"	147.6	150.0		95.3	36"	135.3	150.0	87.3	
42"	150.0		150.0	108.9	42"	132.6	150.0		85.6	42"	119.7	150.0	77.3	
48"	150.0		150.0	104.8	48"	121.8	150.0		78.6	48"	108.3	150.0	69.9	
51"	150.0		150.0	103.8	51"	117.8	150.0		75.9	51"	103.6	150.0	66.9	
57"	150.0		150.0	93.2	57"	110.9	150.0		71.6	57"	96.0	150.0	61.9	
60"	150.0		150.0	84.7	60"	108.3	150.0		69.9	60"	92.8	150.0	59.9	
63"	150.0		150.0	97.0	63"	106.1	150.0		68.4	63"	90.0	150.0	58.1	
66"	150.0		150.0	89.6	66"	104.2	150.0		67.3	66"	87.5	150.0	56.5	
69"	150.0		150.0	83.2	69"	102.7	150.0		66.3	69"	85.3	149.2	55.0	
72"	150.0		150.0	77.6	72"	101.5	150.0		65.5	72"	83.3	145.7	53.7	
30"	60"		150.0	150.0	111.8	30"	90"		150.0	150.0	100.6	30"	120"	
36"		150.0	150.0	99.8	36"	135.3		150.0	87.3	36"	127.4	150.0		82.2
42"		142.8	150.0	92.1	42"	121.0		150.0	78.1	42"	112.5	150.0		72.8
48"		135.3	150.0	87.3	48"	110.7		150.0	71.5	48"	101.5	150.0		65.5
51"		132.9	150.0	85.8	51"	106.6		150.0	68.8	51"	97.0	150.0		62.6
57"		130.2	150.0	84.1	57"	100.1		150.0	64.6	57"	89.7	150.0		57.9
60"		129.9	150.0	83.8	60"	97.4		150.0	62.9	60"	86.8	150.0		55.9
63"		129.9	150.0	85.3	63"	95.2		150.0	61.4	63"	83.9	150.0		54.1
66"	129.9	150.0	87.3	66"	93.2	150.0	60.2	66"	81.5	150.0	52.6			
69"	129.9	150.0	80.6	69"	91.6	150.0	59.1	69"	79.3	148.8	51.2			
72"	129.9	150.0	74.9	72"	90.2	150.0	58.2	72"	77.3	145.0	49.9			
30"	66"	150.0	150.0	123.3	30"	96"	150.0	150.0	108.7	INTERPOLATION FROM THESE CHARTS IS A				
36"		150.0	150.0	109.2	36"		145.7	150.0	94.1					
42"		150.0	150.0	98.8	42"		129.9	150.0	83.8					
48"		145.0	150.0	93.6	48"		118.4	150.0	76.4					
51"		141.5	150.0	91.3	51"		113.8	150.0	73.5					
57"		136.8	150.0	88.3	57"		106.4	150.0	68.6					
60"		135.3	150.0	87.3	60"		103.3	150.0	66.7					
63"		134.5	150.0	86.8	63"		100.7	150.0	65.0					
66"		134.2	150.0	86.6	66"		98.4	150.0	63.5					
69"		134.2	150.0	79.4	69"		96.4	150.0	62.2					
72"		134.2	150.0	73.3	72"		94.7	150.0	61.1					
30"		72"	150.0	150.0	110.3		30"	102"	150.0					
36"	150.0		150.0	97.0	36"	135.3	150.0		87.3					
42"	136.5		150.0	88.1	42"	120.3	150.0		77.6					
48"	128.9		150.0	81.9	48"	109.3	150.0		70.5					
51"	123.3		150.0	79.5	51"	104.9	150.0		67.7					
57"	117.9		150.0	76.1	57"	97.7	150.0		63.0					
60"	118.0		150.0	74.9	60"	94.7	150.0		61.1					
63"	114.6		150.0	73.9	63"	92.1	150.0		59.5					
66"	113.6		150.0	73.3	66"	89.9	150.0		58.0					
69"	113.0		150.0	72.9	69"	87.9	150.0		56.7					
72"	112.8		150.0	72.8	72"	86.1	150.0		55.6					

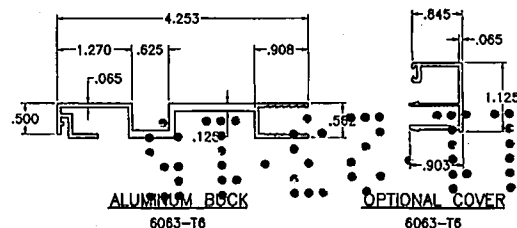
ALUMINUM BLOCK
6063-T6

INTERPOLATION FROM THESE CHARTS IS ALLOWED

ALUMINUM BUCK FRAMING DETAILS



TYPICAL INSTALLATION DETAIL ON ALL FOUR SIDES



Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
MAY 27 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.12
Expiration Date: JUNE 3 2019
By: *Manuel Jerez*
Miami Trade Product Control

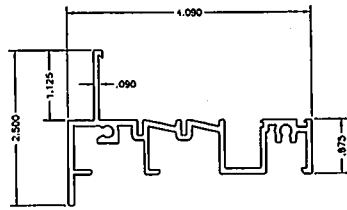
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL: (305) 264-8100 FAX: (305) 262-9878
COMP-ANL W08-9503

SERIES 410 FIXED WINDOW (L.M.I.)

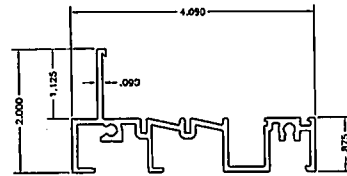
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL: (305) 583-6580 FAX: (305) 593-6592

REV.	DATE	DESCRIPTION
A	04.06.08	NO CHANGE THIS SHEET
B	12.29.11	CHART REV.
C	02.10.14	NO CHANGE THIS SHEET
D	06.03.15	REV. PER COMMENTS
E	03.01.15	NO CHANGE THIS SHEET

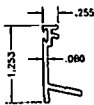
drawn no. **W08-95**
sheet 8 of 9



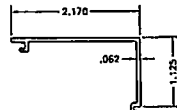
① Flange Frame



② Equal Leg Frame



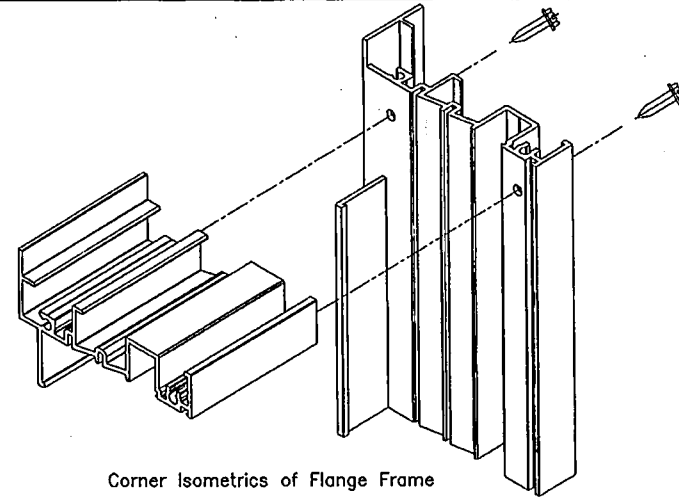
③ Glass Stop



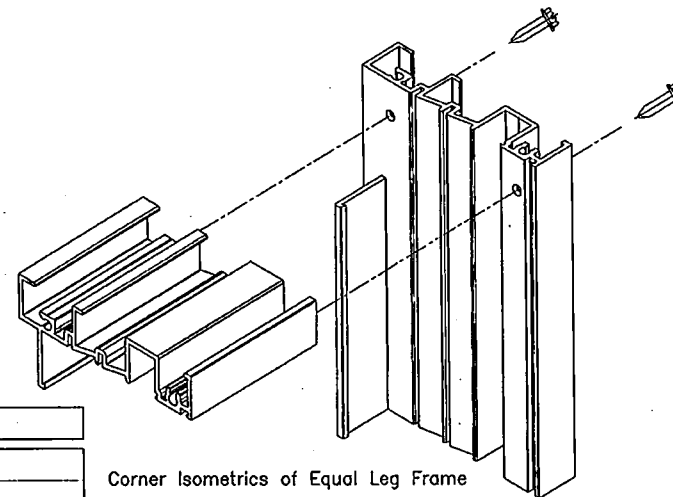
④ Standard Cover

Bill of Materials

Item	Part No. or Name	Qty.	Description	Material	Manufacturer / Supplier	Remarks
①	CGI-700	Varies	Main Frame (Flange)	Aluminum 6063-T6	Custom Extruded for CGI	Continuous on 4 sides
②	CGI-703	Varies	Main Frame (Equal Leg)	Aluminum 6063-T6	Custom Extruded for CGI	Continuous on 4 sides
③	CGI-701	Varies	Glass Stop	Aluminum 6063-T6	Custom Extruded for CGI	Continuous on 4 sides
④	CGI-702	Varies	Standard Cover	Aluminum 6063-T6	Custom Extruded for CGI	Continuous on 4 sides
⑤	Glass Stop Screw	Varies	#10 x 3/4" Hex Hd Self Drilling	Steel	Varies	at 6" from ends and 12" on center
⑥	Varies	Varies	GE-1200 or GE-2000 or DOW-995	Silicone	General Electric or Dow Corning	Structural Silicone
⑦	CGI-382V	Varies	Glass Stop Bulb	Vinyl	Custom Extruded	
⑧	Frame Screw	8	#12 x 1 1/4" Hex Hd SMS	S/S	Varies	2 per corner
⑨	-	2	Setting Block	Epdm	Varies	Durometer 85±5 Shore A



Corner Isometrics of Flange Frame



Corner Isometrics of Equal Leg Frame

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.12
Expiration Date June 3, 2019
By *Wm. J. [Signature]*
Miami/Dade Product Control

MAY 27 2015

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W08-95CGI

SERIES 410 FIXED WINDOW (L.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

REV.	DATE	DESCRIPTION
A	04.06.09	NO CHANGE THE SHEET
B	12.28.11	NO CHANGE THE SHEET
C	02.10.14	NO CHANGE THE SHEET
D	06.03.14	REV. PER RES COMMENTS
E	06.01.15	NO CHANGE THE SHEET

date: 12-04-08
scale: -
dr. by: -
chk. by: -

drawing no.
W08-95
sheet 9 of 9



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

CGI Windows & Doors
10100 NW 25 Street
Miami, FL 33172

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 "Sentinel 120" Aluminum Horizontal Sliding Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. W10-18, titled "Series Sentinel 120 Alum. Horiz. Sliding Wdw. (L.M.I./S.M.I.)", sheets 1 through 11 of 11, dated 03/29/10 with revision "E" dated 04/10/15, 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: Large and Small Missile Impact Resistant

LIMITATIONS: Glass lites wider than 36-inch shall have two setting blocks and anti-Lift devices per FBC requirements.

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. 14-0915.07 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 Manuel Perez, P. E.

MIAMI-DADE COUNTY
APPROVED

MP
8/14/15

NOA No. 15-0512.05
Expiration Date: September 22, 2020
Approval Date: August 20, 2015

Page 1

CGI Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 10-0510.12)
2. Drawing No. W10-18, titled "Series Sentinel 120 Alum Horiz. Sliding Wdw. (L.M.I. /S.M.I.)", sheets 1 through 11 of 11, dated 03/29/10 with revision "E" dated 08/04/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test, per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading, per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 7500 PVC fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WA, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test, per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading, per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 7400 PVC projection out window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WB, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test, per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading, per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 238 aluminum fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WC, dated 04/16/15, signed and sealed by Ramesh C. Patel, P.E.
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 201-94
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, FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of a series "Sentinel" aluminum horizontal sliding window, prepared by Hurricane Test Laboratory, LLC, Test Report No. HTL-0080-0102-10, dated 06/04/10, signed and sealed by Vinu J. Abraham, P. E.
(Submitted under NOA No. 10-0510.12)


Manuel Perez, P. E.
Product Control Examiner
NOA No. 15-0512.05

Expiration Date: September 22, 2020
Approval Date: August 20, 2015

CGI Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with **FBC 5th Edition (2014)**, prepared by Al-Farooq Corporation, dated 09/05/14, signed and sealed by Javad Ahmad, P. E. *(Submitted under previous NOA No. 14-0915.07)*
2. **Glazing complies with ASTM E1300-09**

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

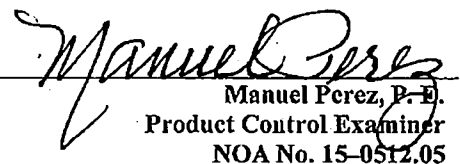
1. Notice of Acceptance No. **14-0916.11** issued to **Kuraray America, Inc.** for their **"SentryGlas® (Clear and White) Glass Interlayers"** dated 06/25/15, expiring on 07/04/18.
2. Notice of Acceptance No. **14-0423.15** issued to **Eastman Chemical Company (MA)** for their **"Saflex CP - Saflex and Saflex HP Composite Glass Interlayers with PET... Core"** dated 06/19/14, expiring on 12/11/18.
3. Notice of Acceptance No. **14-0423.17** issued to **Eastman Chemical Company (MA)** for their **"Saflex Clear and Color Glass Interlayers"** dated 06/19/14, expiring on 05/21/16.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 5th Edition (2014)** and of no financial interest, dated 05/29/14, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E. *(Submitted under previous NOA No. 14-0915.07)*
2. Laboratory compliance letters for Test Reports No.'s **CTLA-3056 WA**, dated 03/03/15, **CTLA-3056 WB**, dated 03/03/15 and **CTLA-3056 WC**, dated 04/16/15, all issued by Certified Test Laboratories, all signed and sealed by Ramesh C. Patel, P. E.
3. Testing Proposal issued by the Product Control Section, dated 12/16/14, signed by Jaime Gascon, P. E., Section Supervisor.
4. Laboratory compliance letters for Test Report No. **HTL-0080-0102-10**, issued by Hurricane Test Laboratory, LLC, dated 06/04/10, signed and sealed by Vinu J. Abraham, P. E. *(Submitted under NOA No. 10-0510.12)*

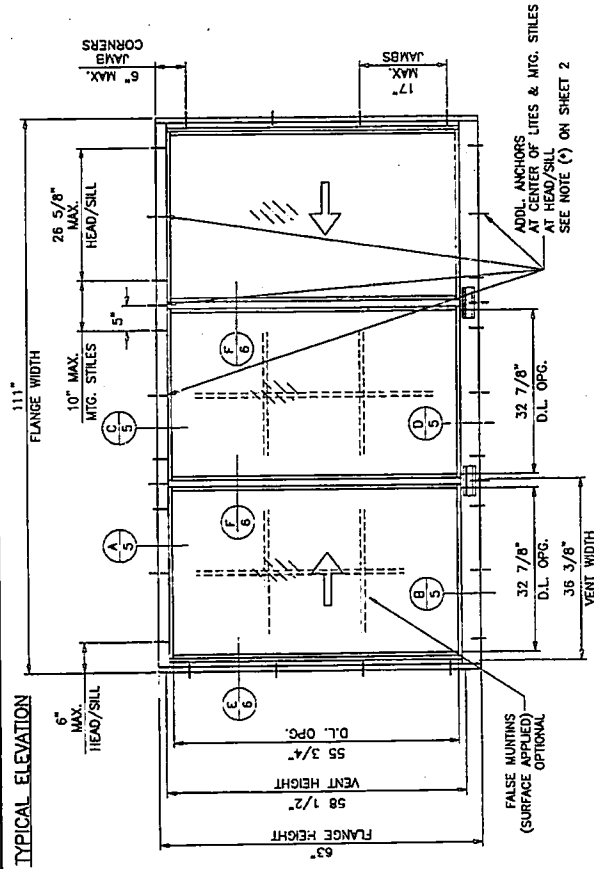
G. OTHERS

1. Notice of Acceptance No. **14-0915.07**, issued to CGI Windows & Doors for their Series **"Sentinel 120"** Aluminum Horizontal Sliding Window - L.M.I., approved on 02/05/15 and expiring on 09/22/20.


Manuel Perez, P. E.
Product Control Examiner
NOA No. 15-0512.05

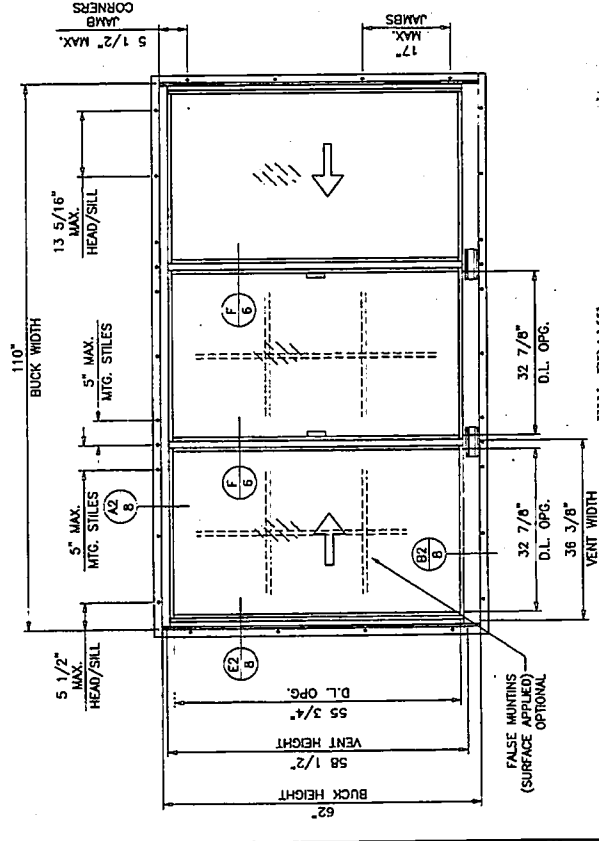
Expiration Date: September 22, 2020
Approval Date: August 20, 2015

TYPICAL ELEVATION



FLANGE & FLANGE ADAPTOR FRAME

EQUAL LEG FRAME



FIN FRAME

PRODUCT REVISED as complying with the Florida Building Code Acceptance for Existing Windows

SERIES SENTINEL 120
ALUMINUM HORIZONTAL SLIDING WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 3.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF H.R./H.R. OR HORIZONTAL ROLLING WITH OTHER MIAMI-DADE COUNTY APPROVED 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 FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE 3" MIN. WALL DRESSING OR STUCCO.

ANCHORING OR LOKING CONNECTIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD INCREASE OF 19% USED IN DESIGN OF ANCHORS INTO WOOD ONLY. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE.

15-0512.05
 05/22/2020
 Manual

LAMINATED GLASS
INSULATING LAM. GLASS
LARGE MISSILE IMPACT
SMALL MISSILE IMPACT

Engr. JAVAD AHMAD
 CML
 P.E. # 70592
 C.A.N. # 3336

AUG 12 2015

drawing no.
W10-18
 Sheet 1 of 11

date: 03-29-10
 scale: 1/2" = 1'
 by: [signature]
 checked by: [signature]

REVISIONS:	DESCRIPTION
1	NO CHANGE THIS SHEET
2	NO CHANGE THIS SHEET
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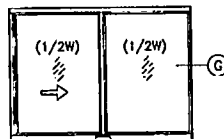
SERIES SENTINEL 120 ALUM. HORIZ. SLIDING WDW. (L.M./S.M.)
 CGI WINDOWS & DOORS
 MIAMI, FL. 33172
 10100 N.W. 25TH STREET
 TEL (305) 593-6590 FAX (305) 593-6592
 TEL (808) 264-8100 FAX (808) 262-6978
 MIAMI, FLORIDA 33174
 ENGINEERS & PRODUCT DEVELOPMENT
 AL-FAROOQ CORPORATION
 COMP-ANT\W10-03CGI

DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES)							
FLANGE DIMS.		BUCK DIMS.		GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
26-1/2"		25-1/2"		65.0	65.0	80.0	90.0
37"	26"	36"	25"	65.0	65.0	80.0	90.0
53-1/8"		52-1/8"		65.0	65.0	80.0	90.0
74"		73"		65.0	65.0	80.0	90.0
26-1/2"		25-1/2"		65.0	65.0	80.0	90.0
37"	38-3/8"	36"	37-3/8"	65.0	65.0	80.0	90.0
53-1/8"		52-1/8"		65.0	65.0	80.0	90.0
74"		73"		65.0	65.0	80.0	90.0
26-1/2"		25-1/2"		65.0	65.0	80.0	90.0
37"	50-5/8"	36"	49-5/8"	65.0	65.0	80.0	90.0
53-1/8"		52-1/8"		65.0	65.0	80.0	90.0
74"		73"		65.0	65.0	80.0	90.0
26-1/2"		25-1/2"		65.0	65.0	80.0	90.0
37"	63"	36"	62"	65.0	65.0	80.0	90.0
53-1/8"		52-1/8"		65.0	65.0	80.0	90.0
74"		73"		60.2	60.2	74.3	74.3
74"	63"	73"	62"	-	-	80.0	90.0 *

DESIGN LOAD CAPACITY - PSF (XOX SIZES)							
FLANGE DIMS.		BUCK DIMS.		GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
74"		73"		65.0	65.0	80.0	90.0
106-1/4"	26"	105-1/4"	25"	65.0	65.0	80.0	90.0
111"		110"		65.0	65.0	80.0	90.0
74"		73"		65.0	65.0	80.0	90.0
106-1/4"	38-3/8"	105-1/4"	37-3/8"	65.0	65.0	80.0	90.0
111"		110"		65.0	65.0	80.0	90.0
74"		73"		65.0	65.0	80.0	90.0
106-1/4"	50-5/8"	105-1/4"	49-5/8"	65.0	65.0	80.0	90.0
111"		110"		65.0	65.0	80.0	90.0
74"		73"		65.0	65.0	80.0	90.0
106-1/4"	63"	105-1/4"	62"	61.6	61.6	78.2	78.2
111"		110"		60.0	60.0	76.4	76.4
106-1/4"	63"	105-1/4"	62"	-	-	80.0	90.0 *
111"		110"		-	-	80.0	90.0 *

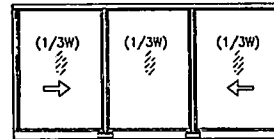
DESIGN LOAD CAPACITY - PSF (XOX SIZES)							
FLANGE DIMS.		BUCK DIMS.		GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
74"		73"		65.0	65.0	80.0	90.0
106-1/4"	26"	105-1/4"	25"	65.0	65.0	80.0	90.0
111"		110"		65.0	65.0	80.0	90.0
74"		73"		65.0	65.0	80.0	90.0
106-1/4"	38-3/8"	105-1/4"	37-3/8"	65.0	65.0	80.0	90.0
111"		110"		65.0	65.0	80.0	90.0
74"	50-5/8"	73"	49-5/8"	65.0	65.0	80.0	90.0
74"	63"	73"	62"	65.0	65.0	80.0	90.0

* ADDL. ANCHORS REQUIRED AT CENTER OF LITES AND MTG. STILE ENDS.



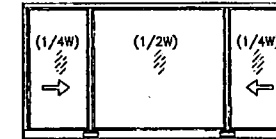
OPERATING VENTS TO BE 1/2 OF THE WINDOW WIDTH

'XO OR OX'



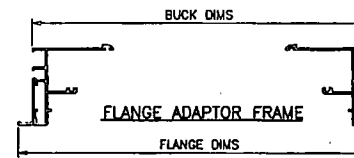
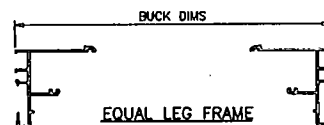
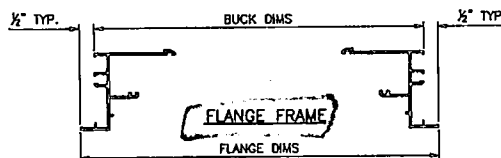
OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

'XOX'

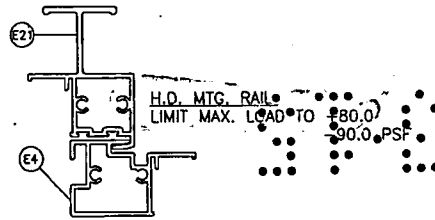
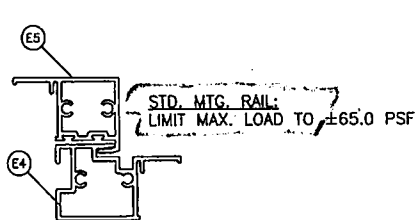


OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH

'XOX'



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.05
Expiration Date 02/22/2020
By *Manuel Perez*
Miami Code Product Control



FLANGE & FLANGE ADAPTOR FRAME
EQUAL LEG FRAME

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

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538

AUG 07 2015

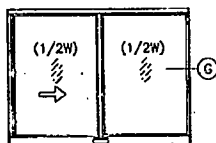
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
2235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W10-03661

SERIES SENTINEL 120 ALUM HORIZ. SLIDING WIND. (LUL/SUL)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

REVISIONS:
NO. DATE BY DESCRIPTION
A 08/04/10 NO CHANGE THIS SHEET
B 10/10/11 NO CHANGE THIS SHEET
C 06/09/14 UPDATED TO 2014 FBC
D 04/10/15 NO CHANGE THIS SHEET
E 04/10/15 NO CHANGE THIS SHEET

Scale: 1/2" = 1"
Dr. By
Chk. By
drawing no.
W10-18
sheet 2 of 11

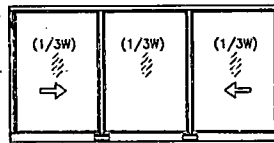
DESIGN LOAD CAPACITY - PSF (XO OR OX SIZES)					
BUCK DIMS.		CLASS TYPES 'A' & 'A1'		CLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
25-1/2"	25"	65.0	65.0	80.0	80.0
36"		65.0	65.0	80.0	80.0
52-1/8"		65.0	65.0	80.0	80.0
73"		65.0	65.0	80.0	80.0
25-1/2"	37-3/8"	65.0	65.0	80.0	80.0
36"		65.0	65.0	80.0	80.0
52-1/8"		65.0	65.0	80.0	80.0
73"		65.0	65.0	80.0	80.0
25-1/2"	49-5/8"	65.0	65.0	80.0	80.0
36"		65.0	65.0	80.0	80.0
52-1/8"		65.0	65.0	80.0	80.0
73"		65.0	65.0	80.0	80.0
25-1/2"	62"	65.0	65.0	80.0	80.0
36"		65.0	65.0	80.0	80.0
52-1/8"		65.0	65.0	80.0	80.0
73"		60.2	60.2	80.0	80.0



OPERATING VENTS TO BE 1/2 OF THE WINDOW WIDTH

'XO OR OX'

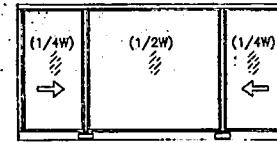
DESIGN LOAD CAPACITY - PSF (XOX SIZES)					
BUCK DIMS.		CLASS TYPES 'A' & 'A1'		CLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
73"	25"	65.0	65.0	80.0	80.0
105-1/4"		65.0	65.0	80.0	80.0
110"		65.0	65.0	80.0	80.0
73"	37-3/8"	65.0	65.0	80.0	80.0
105-1/4"		65.0	65.0	80.0	80.0
110"		65.0	65.0	80.0	80.0
73"	49-5/8"	65.0	65.0	80.0	80.0
105-1/4"		65.0	65.0	80.0	80.0
110"		65.0	65.0	80.0	80.0
73"	62"	65.0	65.0	80.0	80.0
105-1/4"		61.6	61.6	80.0	80.0
110"		60.0	60.0	80.0	80.0



OPERATING VENTS TO BE 1/3 OF THE WINDOW WIDTH

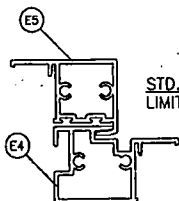
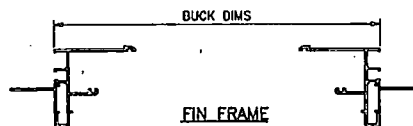
'XOX'

DESIGN LOAD CAPACITY - PSF (XOX SIZES)					
BUCK DIMS.		CLASS TYPES 'A' & 'A1'		CLASS TYPES 'B' & 'B1'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
73"	25"	65.0	65.0	80.0	80.0
105-1/4"		65.0	65.0	80.0	80.0
110"		65.0	65.0	80.0	80.0
73"	37-3/8"	65.0	65.0	80.0	80.0
105-1/4"		65.0	65.0	80.0	80.0
110"		65.0	65.0	80.0	80.0
73"	49-5/8"	65.0	65.0	80.0	80.0
73"		62"	65.0	80.0	80.0

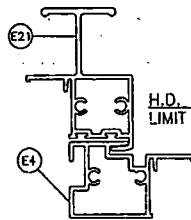


OPERATING VENTS TO BE 1/4 OF THE WINDOW WIDTH

'XOX'



STD. MTC. RAIL:
LIMIT MAX. LOAD TO ± 65.0 PSF



H.D. MTC. RAIL:
LIMIT MAX. LOAD TO ± 80.0 PSF

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.05
Expiration Date 09/22/2020

By: *[Signature]*
Product Control

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

FIN FRAME

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

AMG 07/15

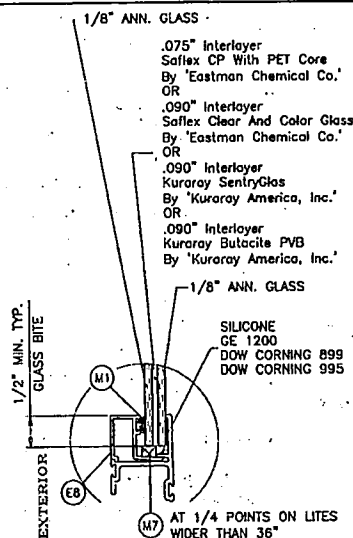
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1233 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL: (305) 264-8100 FAX: (305) 262-8978
COMP-ANL W10-0303G1

SERIES SCHWEL 120 ALUM. HORIZ. SLIDING WIN. (LUL/SMA)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL: (305) 593-6590 FAX: (305) 593-6592

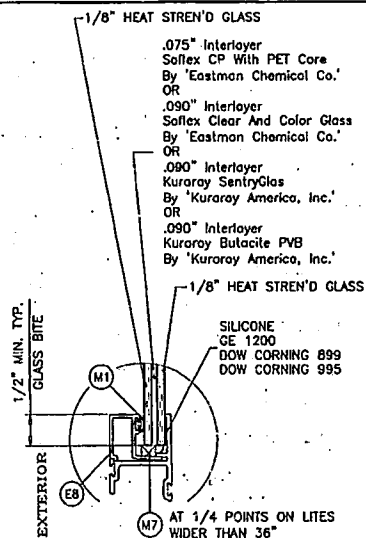
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B	10.10.11		NO CHANGE THIS SHEET
C	08.08.14		UPDATED TO 2014 FBC
D	04.10.15		NO CHANGE THIS SHEET
E	04.10.15		NO CHANGE THIS SHEET

Scale: 1/2" = 1'-0"
Dr. By: *[Signature]*
CHK. By: *[Signature]*

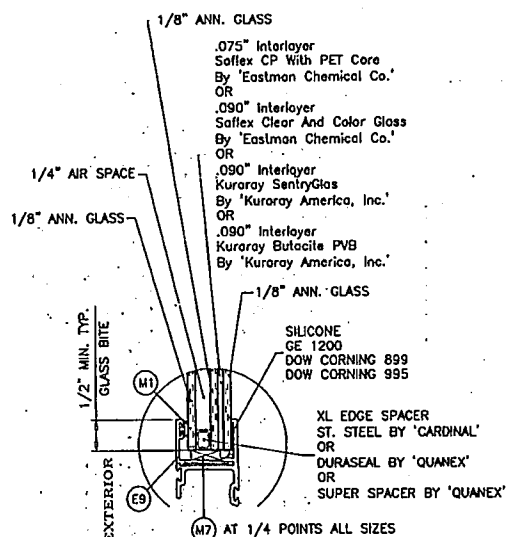
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W10-18
(sheet 3 of 11)



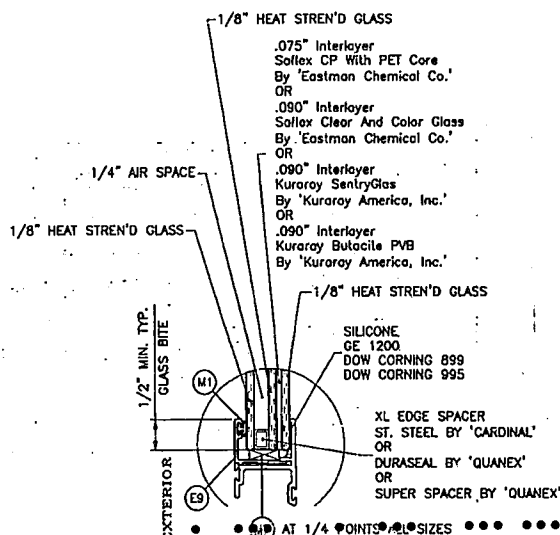
GLASS TYPE 'A'
5/16" NOMINAL LAM. GLASS



GLASS TYPE 'B'
5/16" NOMINAL LAM. GLASS



GLASS TYPE 'A1'
0.70" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'B1'
0.70" OVERALL INSUL. LAM. GLASS

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0542.05
Expiration Date 07/22/2020

By *Manuel Jerez*
Miami Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

AUG 7 2019

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1238 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W10-03501

SERIES SENTINEL 120 ALUM. HORIZ. SLIDING WIN. (LULU/SULU)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

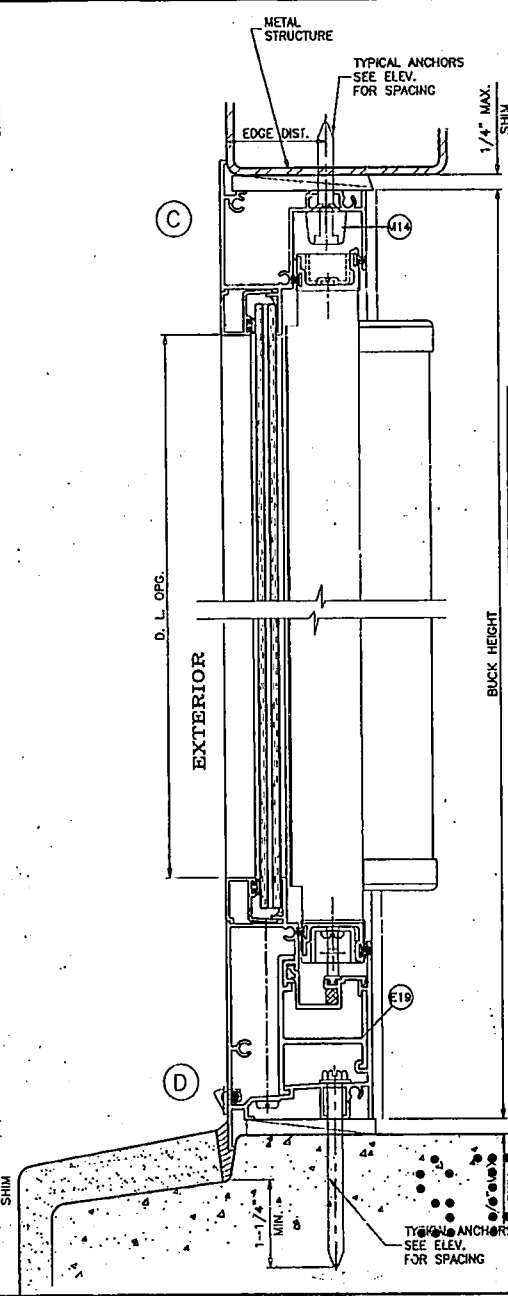
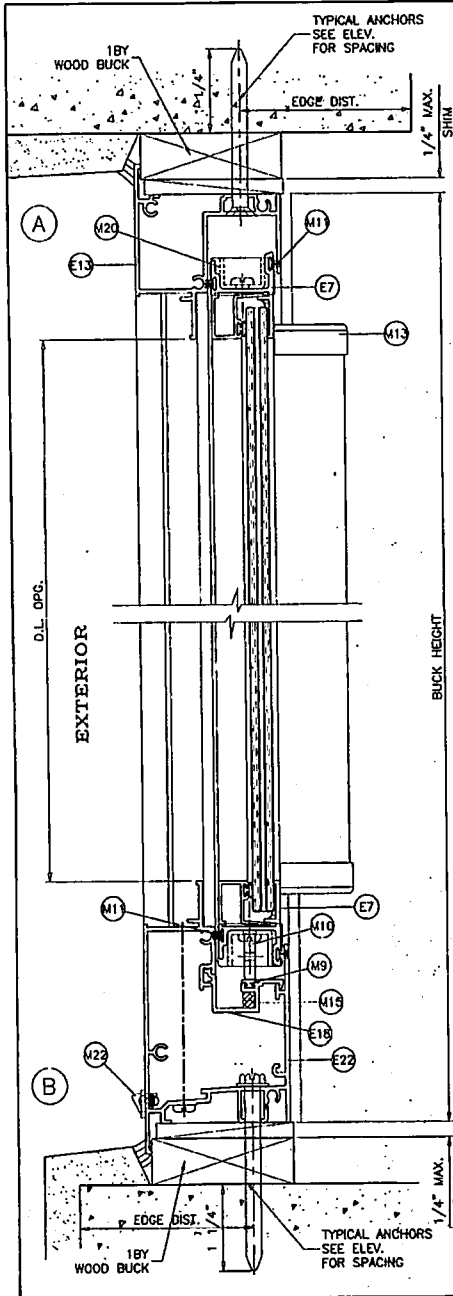
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B	10/10/11	NO CHANGE THIS SHEET
C	06/08/14	UPDATED TO 2014 FBC
D	04/10/15	INTERLAYER & SPACER REV.
E	04/10/15	REV PER PER COMMENTS

date: 03-29-10
scale: 1/2" = 1"
dr. by:
chk. by:

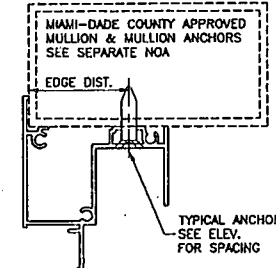
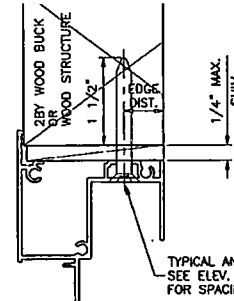
drawing no.
W10-18
sheet 4 of 11

(S.M.I.)

IN ORDER TO QUALIFY FOR SMALL MISSILE IMPACT RATING
EXTERIOR PLY OF GLASS TYPE 'A1' & 'B1' MUST BE TEMPERED.



(FLANGE & FLANGE ADAPTOR FRAME)



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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
 1/4" DIA. TAPCON BY "ITW" (Fu=120 KSI, Fy=92 KSI)
 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
 THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
 DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK.=1/8")
 INTO METAL STRUCTURES
 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, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED NORMAL WEIGHT BLOCK AT JAMBS f'm = 2000 PSI MIN.

PROJECT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 15-0512 05
 Expiration Date 12/22/2020
 By *Manuel Cruz*
 Miami Dade Product Control

Engr: JAVAD AHMAD
 CHM
 FLA. PE # 70592
 C.A.N. 3538
 AUG 14 2014

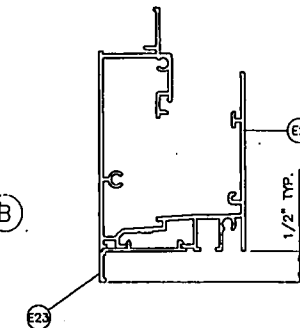
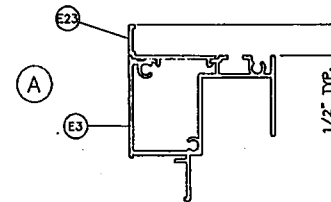
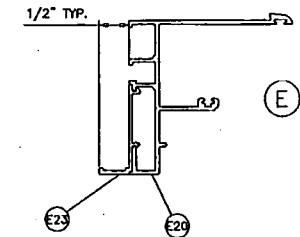
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 284-8100 FAX (305) 282-8978
 COMP-ANL W10-03501

SERIES SHINEL 120 ALUM HORIZ SLIDING WIN. (LUL/SUL)
CGI WINDOWS & DOORS
 10100 N.W. 25TH STREET
 MIAMI, FL. 33172
 TEL (305) 593-6590 FAX (305) 593-6592

REVISION	DATE	BY	DESCRIPTION
A	03-29-10	AS PER AGD COMMENTS	NO CHANGE THIS SHEET
B	10-10-11	NO CHANGE THIS SHEET	UPDATED TO 2014 PEC
C	09-08-14	NO CHANGE THIS SHEET	NO CHANGE THIS SHEET
D	04-10-15	REV PER PER COMMENTS	
E	04-10-15		

date: 03-29-10
 scale: 1/2" = 1"
 dr. by:
 chm. by:
 drawing no.
W10-18
 sheet 5 of 11

af c



INSTALLATION DETAILS SHOWN ON PAGES 5
AND 6 APPLY TO BOTH FLANGE FRAME AND
FLANGE ADAPTOR FRAMES.

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538

AUG 27 2015

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP--ANL\W

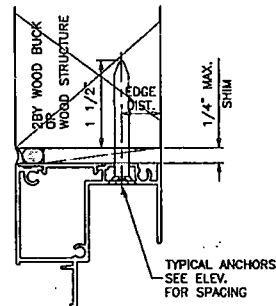
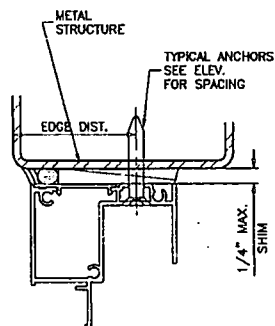
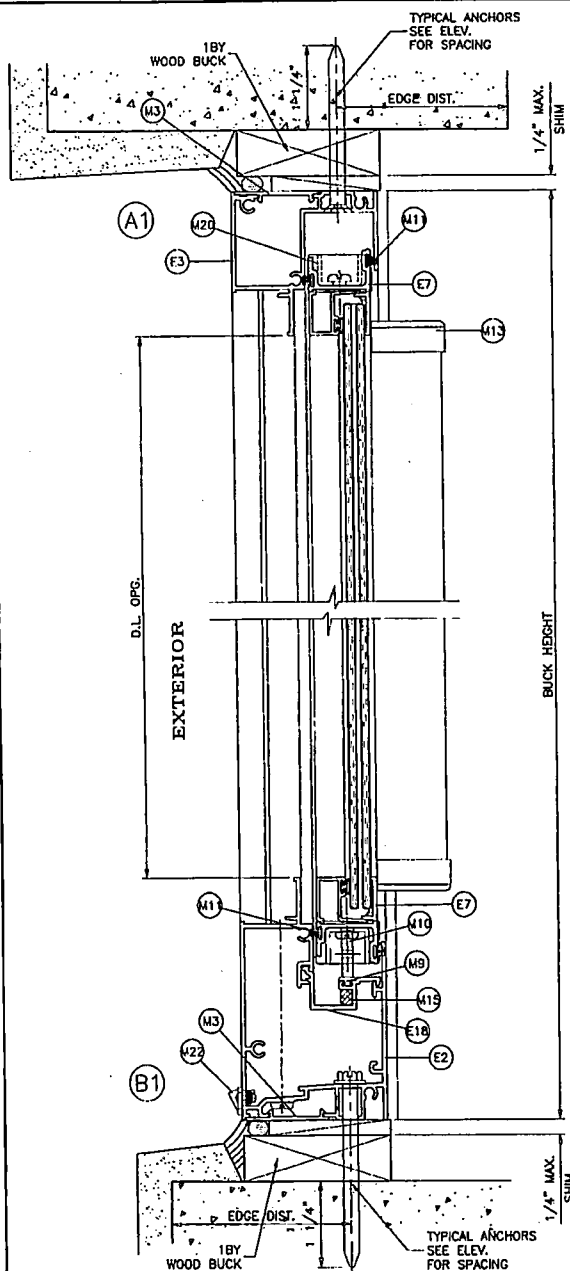
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX. (305) 593-6592

revisions:				
	no	date	by	description
	A	10/04/10		REV. PER BCCD COMMENTS
	B	10/09/11		NO CHANGE THIS SHEET
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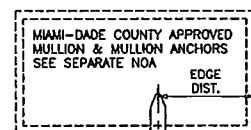
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chk. by:

drawing no.
W10-18

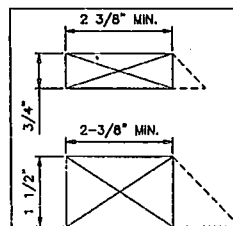
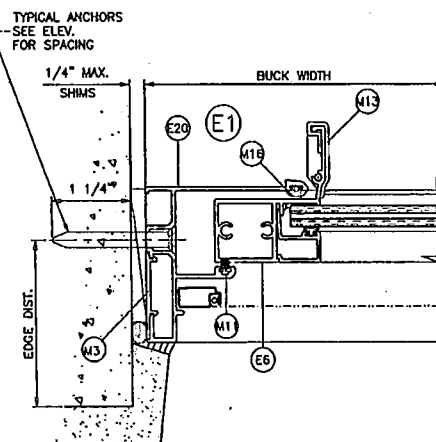
sheet 6 of 11



EQUAL LEG FRAME

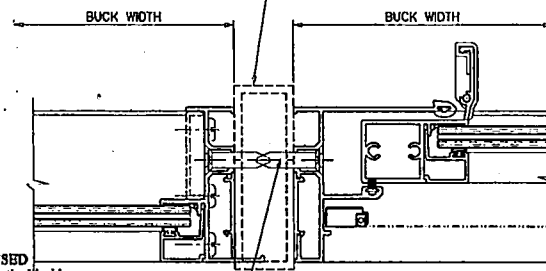


EQUAL LEG FRAME CAN BE INSTALLED DIRECTLY INTO WOOD, CONCRETE OR METAL STRUCTURES WITHOUT THE NEED OF A WOOD BUCK.



WHEN USED THE MIN. WOOD BUCK DEPTH SHALL BE 2 3/8\".

MIAMI-DADE COUNTY APPROVED MULLION & MULLION ANCHORS SEE SEPARATE NOA



PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 15-0512.05 Expiration Date 2/22/2020 By *Manuel* Miami Dade Product Control

Engr: JAVAD AHMAD CIVIL FLA. PE # 70582 C.A.N. 3538

07/2015

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W10-03CGI

SERIES SENTINEL 120 ALUM. HORIZ. SLIDING WDR. (LUL/SUL)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

REV.	DATE	DESCRIPTION	BY
A	04.04.10	REV. PER 2009 COMMENTS	
B	10.01.11	NO CHANGE THIS SHEET	
C	09.09.14	UPDATED TO 2014 FBC	
D	04.10.15	NO CHANGE THIS SHEET	
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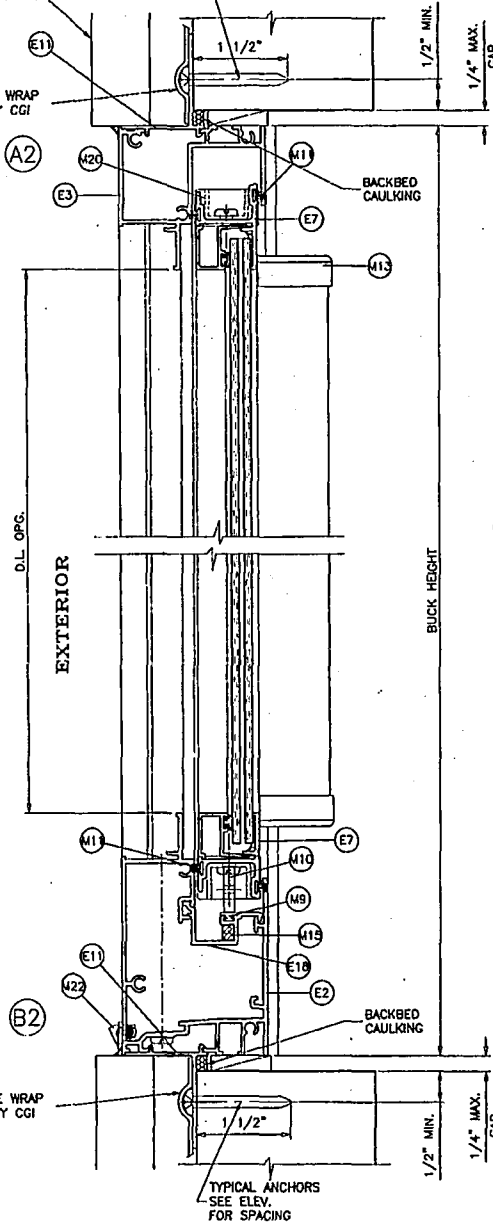
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scale: 1/2" = 1"
dr. by:
chk. by:
drawing no.
W10-18
sheet 7 of 11

FIN FRAME

ILLUSTRATIVE DTLS. ONLY
EXT. OR INT. FINISHES
NOT BY CGI

TYPICAL ANCHORS
SEE ELEV.
FOR SPACING

HOUSE WRAP
NOT BY CGI



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

#8 SMS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

WOOD STRUCTURE
NOT BY CGI

1/4" MAX.
GAP
1/2" MIN.

BUCK WIDTH

1/4" MAX.
GAP
1/2" MIN.

HOUSE WRAP
NOT BY CGI

EXTERIOR

PRODUCT REVISED
as complying with the Florida
Building Code
Accepted No. 15-951205
Expiration Date 12/22/2020

By *Mamuk-Dez*
Miami/Dade Product Control

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538
AUG 17 2015

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-8978
COMP-AIL W10-03CGI

SERIES SCHWEL 120 ALUM HORIZ. SLIDING WIND. (L.H./S.H.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-0590 FAX (305) 593-6592

REVISIONS:	NO.	DATE	BY	DESCRIPTION
	A	04/04/10		NO CHANGE THIS SHEET
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	E	04/10/15		NO CHANGE THIS SHEET

date: 03-28-10
scale: 1/2" = 1"
dr. by:
chk. by:

drawing no.
W10-18
sheet 8 of 11

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANY./SUPPLIZR/REMARKS
E1	CGI-100	-	FRAME JAMB • FIXED GLASS	6063-T6	CGI EXTRUDER
E2	CGI-113	-	FRAME SILL	6063-T6	CGI EXTRUDER
E3	CGI-102	-	FRAME HEAD	6063-T6	CGI EXTRUDER
E4	CGI-103	-	MEETING RAIL	6063-T6	CGI EXTRUDER
E5	CGI-104	-	LOCK RAIL	6063-T6	CGI EXTRUDER
E6	CGI-105	-	HANDLE RAIL	6063-T6	CGI EXTRUDER
E7	CGI-106	-	SASH RAIL	6063-T6	CGI EXTRUDER
E8	CGI-107	-	5/16" GLAZING BEAD	6063-T5	CGI EXTRUDER
E9	CGI-108	-	0.700" GLAZING BEAD	6063-T5	CGI EXTRUDER
E10	CGI-109	-	FRONT FLANGE ADAPTOR	6063-T6	CGI EXTRUDER
E11	CGI-110	-	NAIL FIN ADAPTOR	6063-T6	CGI EXTRUDER
E12	CGI-135	-	TF FRAME JAMB • FIXED GLASS	6063-T6	CGI EXTRUDER
E13	CGI-136	-	TF FRAME HEAD	6063-T6	CGI EXTRUDER
E14	CGI-139	-	TF FRAME JAMB	6063-T6	CGI EXTRUDER
E15	CGI-140	-	1" MUNTIN	6063-T5	CGI EXTRUDER
E16	CGI-141	-	2.5" MULLION	6063-T6	CGI EXTRUDER
E17	CGI-605	-	SCREEN FRAME	6063-T5	CGI EXTRUDER
E18	CGI-114	-	SILL SNAP IN	6063-T6	CGI EXTRUDER
E19	CGI-115	-	SILL FILLER	6063-T6	CGI EXTRUDER
E20	CGI-116	-	FRAME JAMB	6063-T6	CGI EXTRUDER
E21	CGI-117	-	HD LOCK RAIL	6063-T6	CGI EXTRUDER
E22	CGI-138	-	TF FRAME SILL	6063-T6	CGI EXTRUDER
E23	CGI-109	-	FRONT FLANGE ADAPTOR	6063-T6	CGI EXTRUDER
M1	CGI-382V	-	GLAZING BULB VINYL (DUROMETER 75-80 SHORE A)	PVC	-
M2	CGI-111	-	SCREW COVER (OPTIONAL)	PVC	-
M3	CGI-112	3" • ANCHORS	EQUAL LEG COVER/SHIM	PVC	-
M4	-	0.700" X 0.040" BEAD	GE1200 SILICONE	SILICONE	GE
M5	-	0.700" X 0.040" BEAD	DOW 995	SILICONE	DOW
M6	-	0.700" X 0.040" BEAD	DOW 899	SILICONE	DOW
M7	-	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 80±5 SHORE A
M8	-	-	PROTECTO WRAP WATERPROOFING OR EQUIV.	-	-
M9	684	-	ROLLER TRACK	PVC	-
M10	CGI-128	2 PER SASH	ROLLER HOUSING	NYLON	-
M11	W23201NG	-	PILE WITH CENTER FIN	WOOL	ULTRAFAB OR EQUIV.
M12	CGI-129	1 PER SASH	EGRESS LOCK	ALUM.	SULLIVAN
M13	CGI-131	2 PER SASH	HANDLE RAIL END CAP	NYLON	M&M
M14	391-N	1 PER SASH	ANTILIFT BLOCK	NYLON	M&M
M15	-	OPTIONAL	RETICULATED FOAM 30 PPI	-	-
M16	CGI-134	-	JAMB SPACER	PVC	PROTOTYPE OR EQUIV.
M17	A30730401-32	1 PER WD.	CAM LOCK	ZINC	TRUTH OR EQUIV.
M18	CGI-132	2PER WD. 2"	SASH STOP	PVC	PROTOTYPE
M19	CGI-111	• FR. HEAD	SCREW COVER	PVC	PROTOTYPE
M20	CGI-125	2PER SASH	SASH CAM (B/T BALANCE)	NYLON	M&M
M22	-	VARIES	HI-FLO WEEP COVERS	PVC	AMESBURY OR EQUIV
S2	-	2 OR 3 PER CORNER	# 10 X 1 1/4" LG. PHL. PH. SMS. ST/ST. ASSEMBLY SCREW	-	-
S3	-	1 1/4" EMBED.	# 8 X 1 1/2" LG. PHL. PH. SMS. FIN ANCHOR SCREW	-	-
S4	-	4 PER WD.	# 8 X 1/2" PH. SMS. ST/ST BALANCE BRACKET SCREW	-	-
S5	-	2 PER WD.	# 8 X 1" LG. FH. SMS. ST/ST. SPIRAL B. ASSEMBLY	-	-
S6	-	-	# 6 X 1/2" LG. FH. SMS. • CGI-133 & CAM LOCK	-	-
S8	-	4 • M. RAIL	# 10 X 4" LG. PHL. PH. SMS. ST/ST. ASSEMBLY MEETING RAIL	-	-
S9	-	2 PER ANTIIFT	# 10 X 5/8" LG. PHL. PH. SMS. ST/ST. ANTIIFT SCREW	-	-

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.05
Expiration Date 09/22/2020
By *Manuel J. Jerez*
Miami Code Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

AUG 7 2015

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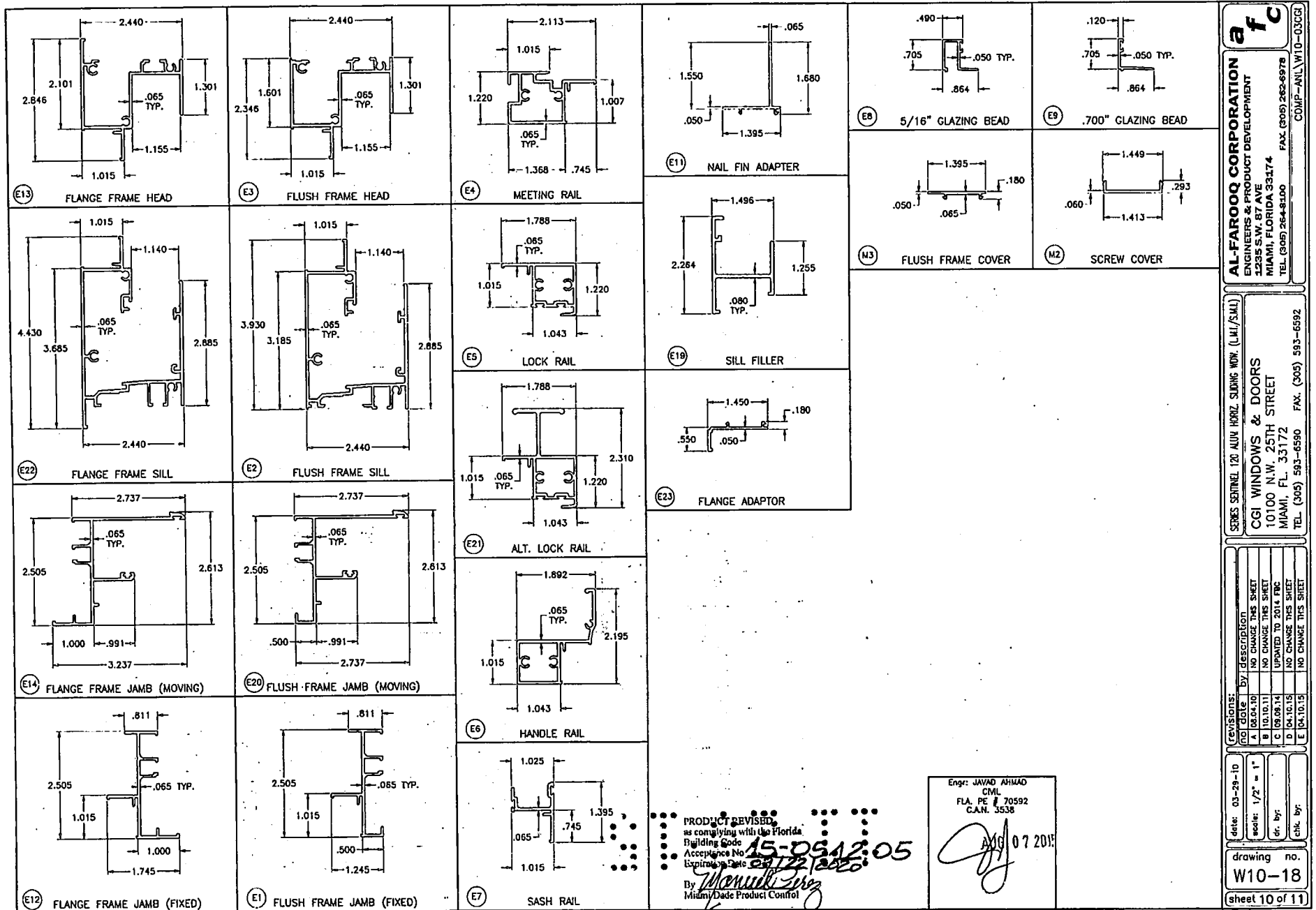
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 12335 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL: (305) 264-8100 FAX: (305) 262-6978
 COMP-ANL W10-03CG

SERIES SENTINEL 120 ALUM. HORIZ. SLIDING WIN. (LUL/SJL)
CGI WINDOWS & DOORS
 10100 N.W. 25TH STREET
 MIAMI, FL. 33172
 TEL: (305) 593-6590 FAX: (305) 593-6592

REVISIONS:
 NO. DATE BY DESCRIPTION
 A 08.04.10 REV. PER M20 COMMENTS
 B 10.10.11 NO CHANGE THIS SHEET
 C 02.08.14 UPDATED TO 2014 FBC
 D 04.10.15 NO CHANGE THIS SHEET
 E 04.10.15 NO CHANGE THIS SHEET

DATE: 03-29-10
 SCALE: 1/2" = 1"
 DR. BY: *Manuel J. Jerez*
 CHK. BY:

drawing no.
W10-18
 sheet 9 of 11



af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 262-6978 FAX (305) 262-6978
COMP-ANL W10-0303

SERIES SENTINEL 120 ALUM. HORIZ. SLIDING WDK. (LWL/SAL)

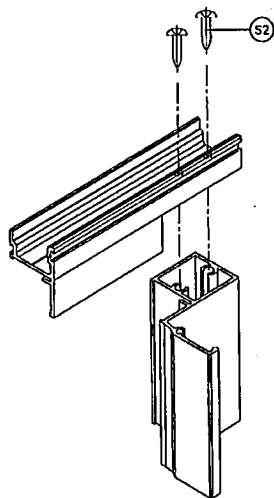
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

NO	DATE	BY	DESCRIPTION
A	03.04.10		NO CHANGE THIS SHEET
B	10.10.11		NO CHANGE THIS SHEET
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D	04.10.15		NO CHANGE THIS SHEET
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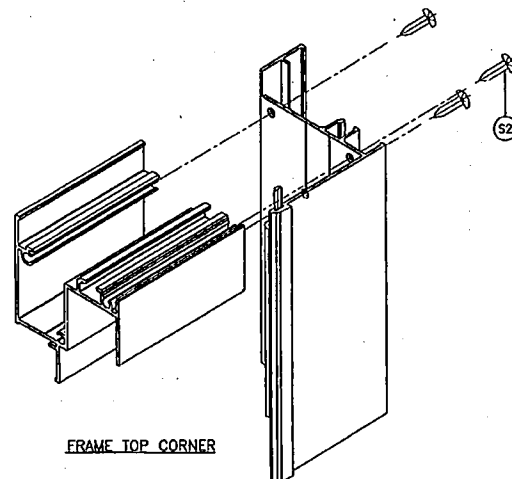
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W10-18

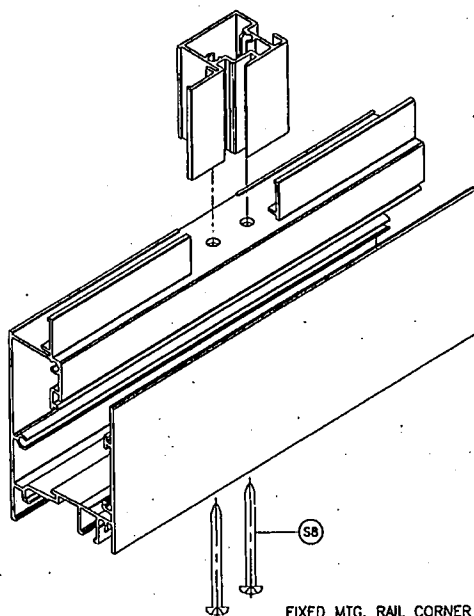
sheet 10 of 11



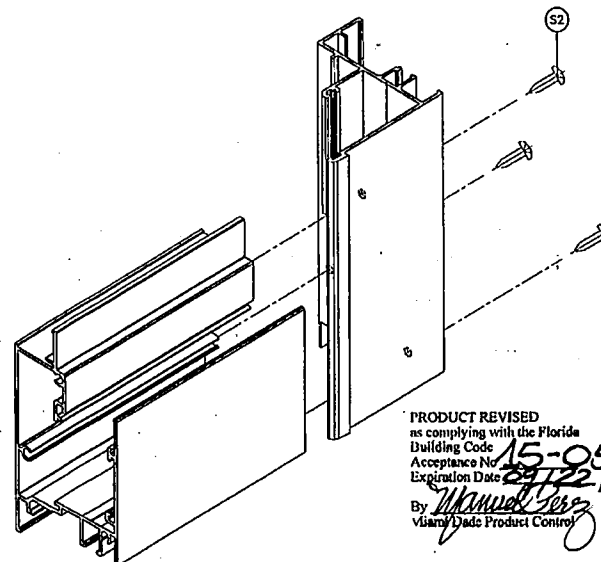
VENT TOP/BOTTOM CORNERS



FRAME TOP CORNER



FIXED MTG. RAIL CORNER



FRAME BOTTOM CORNER

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.05
Expiration Date 07/22/2020
By *Manuel J. [Signature]*
Viamonte Product Control

Engr: JAVAD AHMAD
CML
FLA. PE # 70892
C.A.N. 3534

AUG 07 2015

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8300 FAX (305) 262-6978
COMP-ANL W10-0303

SERIES SENTREL 120 ALUM. HORIZ. SLIDING WIN. (L.V./S.M.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

revisions:	date	by	description
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C	05.05.14		UPDATED TO 2014 FBC
D	04.10.15		NO CHANGE THIS SHEET
E	04.10.15		NO CHANGE THIS SHEET

date: 03-29-10
scale: 1/2" = 1"
dr. by:
chk. by:

drawing no.
W10-18

sheet 11 of 11



B1600909

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

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

CGI Windows & Doors, Inc.
10100 N. W. 25th Street
Miami, FL 33172

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 "160 Sentinel" Aluminum Outswing glazed Doors w/wo Sidelites - LM

APPROVAL DOCUMENT: Drawing No. W13-01 Rev D, titled "Series 160 Sentinel Outswing Doors", sheets 1 thru 11 of 11, inclusive sheet 9.1, prepared by Al-Farooq Corporation, dated 01-03-13 and last revised on AUG 05, 2015. 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: Large and Small Missile Impact

Limitations:

1. See Design Pressure ratings single and double doors in sheets 1 & 2, single sidelite in sheet 3 and door mullion in sheet 4. For mulled unit lower design of door or sidelite or mullion shall apply to the entire assembly.
2. See glazing option in sheet 5 and locking hardware options in sheet 9.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", 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 # 13-0226.06 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

NOA No. 14-1015.04
Expiration Date: August 08, 2018
Approval Date: August 13, 2015
Page 1

8/14/15

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (submitted under files below)
2. Drawing No. **W13-01 Rev D**, titled "Series 160 Sentinel Outswing Doors", sheets 1 thru of 11 of 11, inclusive sheet 9.1, prepared by Al-Farooq Corporation, dated 01-03-13 and last revised on AUG 05, 2015, signed and sealed by Javad Ahmad, P.E.

B. TESTS (submitted under file #13-0226.06)

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(+50.0 PSF, sill S-I only)
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 manufacturer's parts and section drawing marked-up drawings of aluminum out w/ sidelites, by American test Lab of South Florida, Inc., Test Report No. **ATLSF-1218.01-12** dated 02/11/2013, signed and sealed by Henry Hatem, P.E.

2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with manufacturer's parts and section drawing marked-up drawings of aluminum sidelites, issued by Certified Testing Lab., Test Report No. **CTLA 3056WC** (sample #3) dated 04/15/2013, signed and sealed by Ramesh Patel, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 2014 (5th Edition), prepared by Al Farooq Corporation, dated 10/06/2014, 05/19/15 and last revised on AUG 04, 2015, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTM E-1300-02, -04 and -2009.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

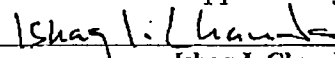
1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Sentry Glass ® Interlayer", expiring on 01/14/17.
2. Notice of Acceptance No. **12-1231.10** issued to Eastman Chemical Company(MA) former Solutia Inc. for "Saflex clear & color glass interlayer", expiring on 05/21/16.
3. Notice of Acceptance No. **12-1231.08** issued to Eastman Chemical Company(MA) former Solutia Inc. for "Saflex CP-Saflex & Saflex HP composite interlayer w/ PET core", expiring on 12/11/18.

F. STATEMENTS

1. Statement letter of conformance to FBC 2014 (5th Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 09/23/14, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance and addendum letters, as part of the above referenced test reports.

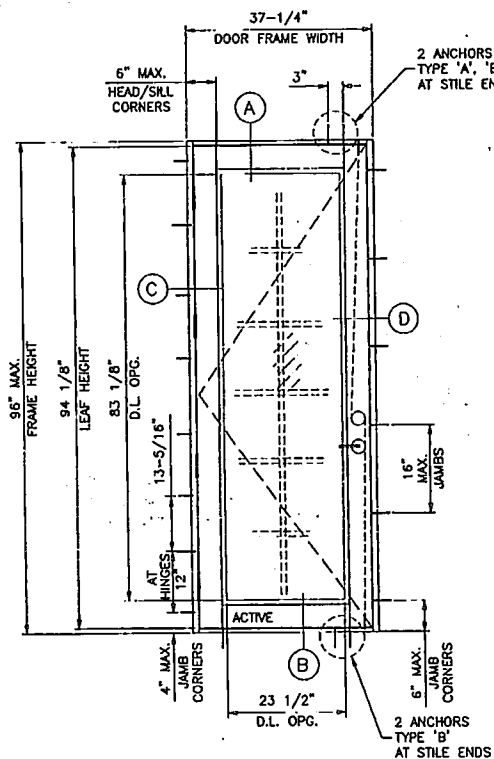
G. OTHER

1. This file NOA revises # **13-0226.06**, expiring 08/08/18.
2. Test proposals approved dated 12/16/14 & # **12-0553**, dated 04/25/12 approved by RER.

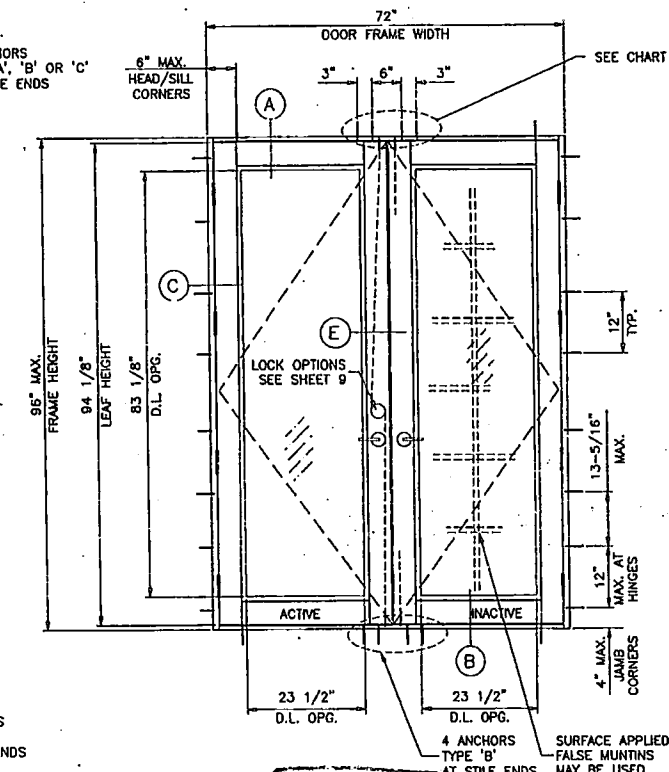

Ishag I. Chanda, P.E.

Product Control Examiner
NOA No 14-1015.04

Expiration Date: August 08, 2018
Approval Date: August 13, 2015



TYPICAL ELEVATION
(X)



TYPICAL ELEVATION
(XX)

DOOR OPTIONS

DOORS LOAD CAPACITY - PSF SINGLE DOORS (X)				
DOOR DIMS.		LAM. or INSUL-LAM.		
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)
37-1/4"	35"	96"	80	80

NOTE:
VERIFY COMPLIANCE WITH EGRESS LIMITATIONS WHERE REQUIRED.

NOTE:
FLUSH BOLTS AND LOCKS MUST BE
ENGAGED TO HEAD AND SILL DURING
PERIODS OF HURRICANE WARNING.

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

DOORS LOAD CAPACITY - PSF DOUBLE (XX)				
DOOR DIMS.		LAM. or INSUL-LAM.		
FRAME WIDTH	LEAF WIDTH	FRAME HEIGHT	EXT.(+)	INT.(-)
72"	35"	96"	80	80

DOOR D.L.O. DIMS.
D.L.O. HEIGHT = FRAME HEIGHT - 12.875"
D.L.O. WIDTH (X DOORS) = FRAME WIDTH - 13.75"
D.L.O. WIDTH (XX DOORS) = FRAME WIDTH - 25"

DOORS/SIDELITES ARE RATED FOR LARGE AND SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

HEAD ANCHORS AT STILE ENDS QUANTITY CHART			
SHIM	ANCHOR TYPE		
	'A'	'B'	'C'
1/4"	4	4	4
3/8"	6	6	6
1/2"	7	7	-

SEE CHART FOR QUANTITY

PRODUCT REVISED
as complying with the Florida
Building Code
Amendment No. 14-1615-04
Issued Date: AUG 08, 2018
By: [Signature]
Michael R. Prater, Control

SERIES SENTINEL 160 ALUMINUM OUTSWING DOOR W/ SIDELITES

APPROVAL APPLIES TO SINGLE (X) AND DOUBLE (XX) LEAF DOORS
WITH OR WITHOUT SIDELITES.
SIDE LITES CAN BE ON ONE OR BOTH SIDES OF DOOR.
SEE SHEET 1 FOR SINGLE OR DOUBLE DOORS DESIGN LOAD CAPACITIES.
SEE SHEET 3 FOR SINGLE STATIONARY PANEL LOAD CAPACITIES.
SEE SHEET 4 FOR SIDELITE TO DOOR MULLION CAPACITY.
THE LOWEST VALUE FROM DOOR, SIDELITE OR MULLION CAPACITY
CHARTS WILL APPLY TO ENTIRE SYSTEM.

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

1BY OR 2BY WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO
TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS
EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS
ARE NOT PART OF THIS APPROVAL.

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

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

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538

1 AUG 15 2015

AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
3235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-8978
COMP-ANL W13-OTCGL

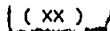
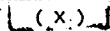
SERIES SENTINEL 160 ALUM OUTSWING DOOR (L.M./S.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

REV.	DATE	BY	DESCRIPTION
1	05/02/13	A	REV. PER PER COMMENTS
2	02/28/14	B	UPDATED TO 2014 FBC
3	03/14/15	C	NO CHANGE THIS SHEET
4	08/05/15	D	REV. PER PER COMMENTS

date: 01-03-13
scale: 1/2"=1'-0"
dr. BY: HAKD
chk. BY:

drawing no.
W13-01

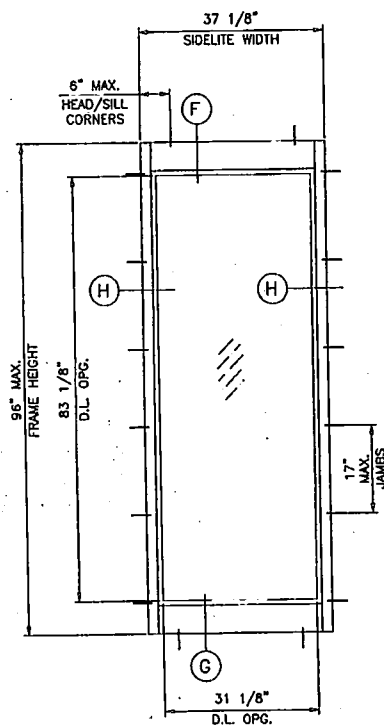
sheet 1 of 11



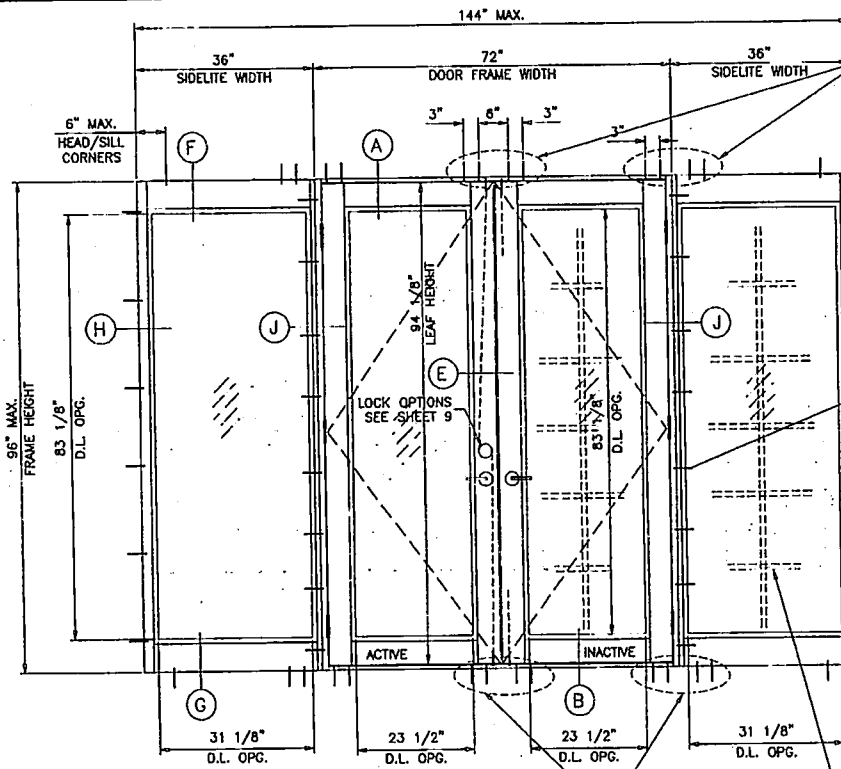
Engr: JAYAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538



AUG 05 2015



TYPICAL ELEVATION
(O)



TYPICAL ELEVATION
(OXXO)

SIDELITE OPTIONS

DESIGN LOAD CAPACITY - PSF			
SIDELITE WIDTH INCHES	SIDELITE FRAME HEIGHT INCHES	STATIONARY PANEL (O) (SEE NOTE BELOW)	
		EXT. (+)	INT. (-)
24	84	80.0	80.0
30		80.0	80.0
33		80.0	80.0
36		80.0	80.0
37-1/8		77.6	77.6
39	90	73.8	73.8
42		68.6	68.6
24		80.0	80.0
30		80.0	80.0
33		80.0	80.0
36		80.0	80.0
37-1/8		77.6	77.6
39	96	73.8	73.8
24		80.0	80.0
30		80.0	80.0
33		80.0	80.0
36		80.0	80.0
37-1/8		77.6	77.6

SEE CHART FOR QUANTITY

HEAD ANCHORS AT STILE & MULLION ENDS QUANTITY CHART			
	ANCHOR TYPE		
SHIM	'A'	'B'	'C'
1/4"	4	4	4
3/8"	6	6	6
1/2"	7	7	-

FASTENERS SAME LOCATIONS
AS ANCHORS SHOWN ON
SHEETS 1 & 2

4 ANCHORS
TYPE 'B'
AT STILE AND
MULLION ENDS

PRODUCT REVISED

as complying with the Florida

Building Code

Acceptance No 14-101504

Expiration Date 3/6/18

By: [Signature]
Model/Trade/Random Control

SIDELITE D.L.O. DIMS.

D.L.O. HEIGHT = FRAME HEIGHT - 12.875"

D.L.O. WIDTH = SIDELITE WIDTH - 6" STAND ALONE SIDELITE ONLY

D.L.O. WIDTH = SIDELITE WIDTH - 4.875 SIDELITE TO DOOR ONLY

Engr. JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538

AUG 05 2015

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 262-6978 FAX (305) 262-6978
COMP-ANL W13-01CGI

SERIES SENTINEL 160 ALUM. OUTSWING DOOR (LUL/S.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

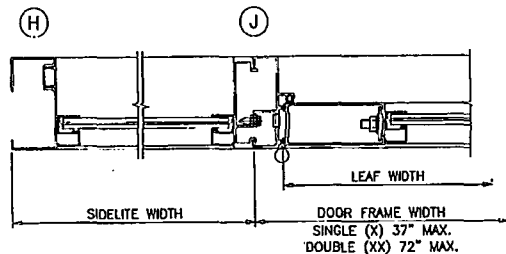
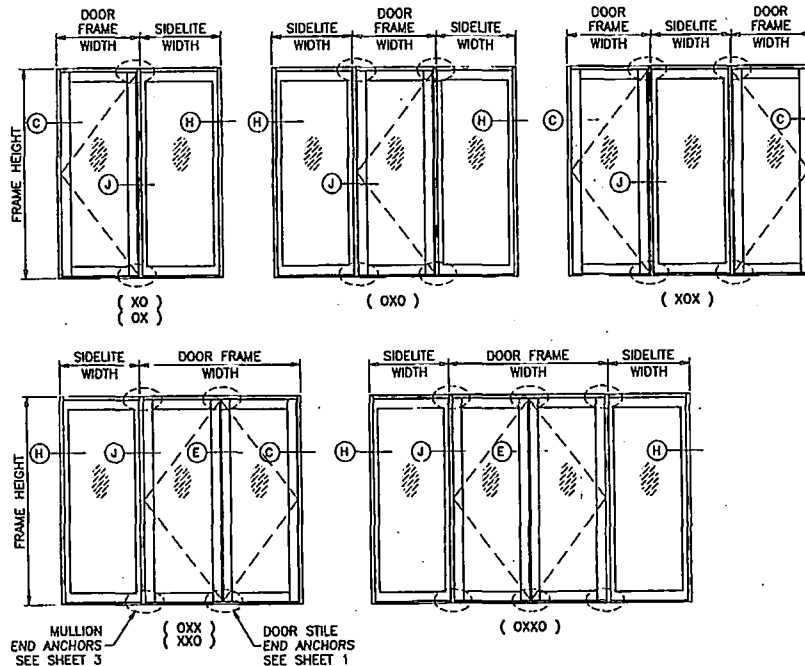
NO.	DATE	DESCRIPTION	BY
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B	09.28.14	UPDATED TO 2014 IBC	NO CHANGE THIS SHEET
C	06.14.15	REV. PER COMMENTS	REV. PER COMMENTS
D	08.05.15		

date: 01-03-13
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

drawing no.
W13-01

sheet 3 of 11

DESIGN LOAD CAPACITY - PSP				
SIDELITE WIDTH INCHES	DOOR LEAF WIDTH INCHES	SIDELITE FRAME HEIGHT INCHES	SIDELITE TO DOOR MULLION (SEE NOTE BELOW)	
			EXT.(+)	INT.(-)
24	35	84	80.0	80.0
30			80.0	80.0
33			80.0	80.0
36			80.0	80.0
37-1/8			77.6	77.6
39	35	90	73.8	73.8
42			68.6	68.6
24			80.0	80.0
30			80.0	80.0
33			80.0	80.0
36			80.0	80.0
37-1/8			77.6	77.6
39	35	96	73.8	73.8
24			80.0	80.0
30			80.0	80.0
33			80.0	80.0
36			80.0	80.0
37-1/8			77.6	77.6



SIDELITE TO DOOR

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

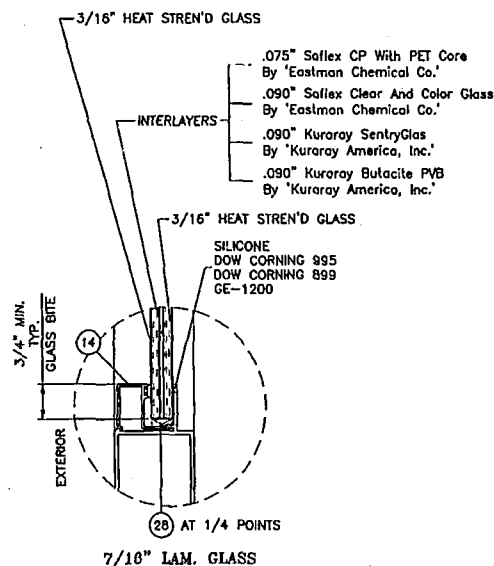
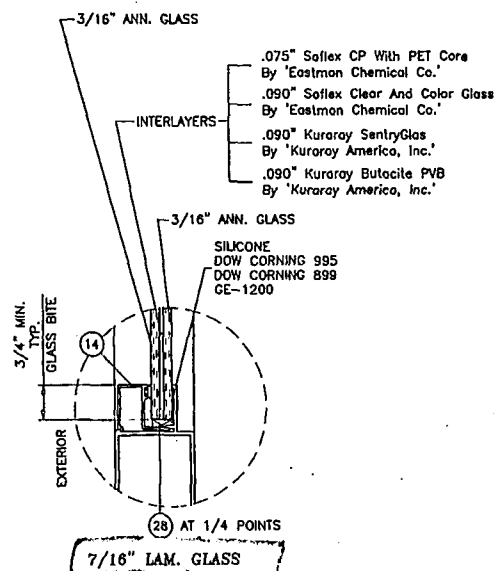
1. SELECT SINGLE OR DOUBLE DOORS CAPACITY FROM TABLE ON SHEET 1.
2. SELECT LOWER OF SIDELITE TO DOOR MULLION CAPACITY FROM TABLE ABOVE.
3. LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO ENTIRE SYSTEM.

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

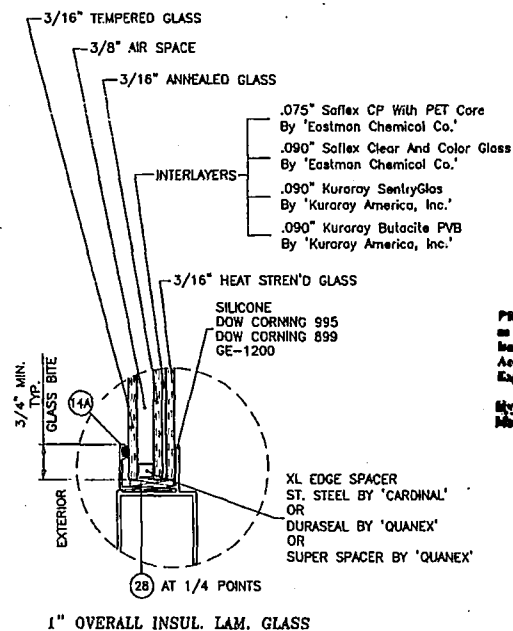
Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3538

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No 14-1015-04
Expiration Date 2/2/15
By: [Signature]
Miami Door Product Control

af c AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL (305) 264-8100 FAX (305) 262-8978 COMP-ANL W13-01CG	
SERIES SEVEN 160 ALUM OUTSWING DOOR (LH/SNL) CGI WINDOWS & DOORS 10100 N.W. 25TH STREET MIAMI, FL. 33172 TEL (305) 593-6590 FAX (305) 593-6592	
REVISIONS: (1) DATE 01-03-13 BY A REV. PER PER COMMENTS A 02-02-13 B 02-28-14 C 03-14-15 D 08-05-15	NO CHANGE THIS SHEET NO CHANGE THIS SHEET NO CHANGE THIS SHEET NO CHANGE THIS SHEET
date: 01-03-13 scale: 1/2"=1'-0" dr. BY: HAND chg. BY:	drawing no. W13-01 sheet 4 of 11



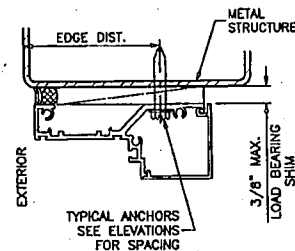
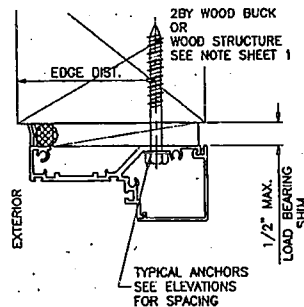
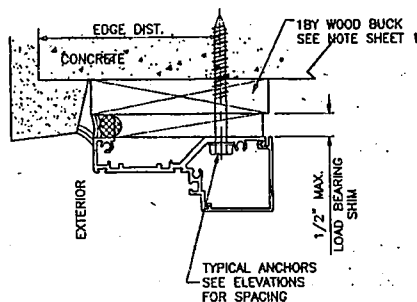
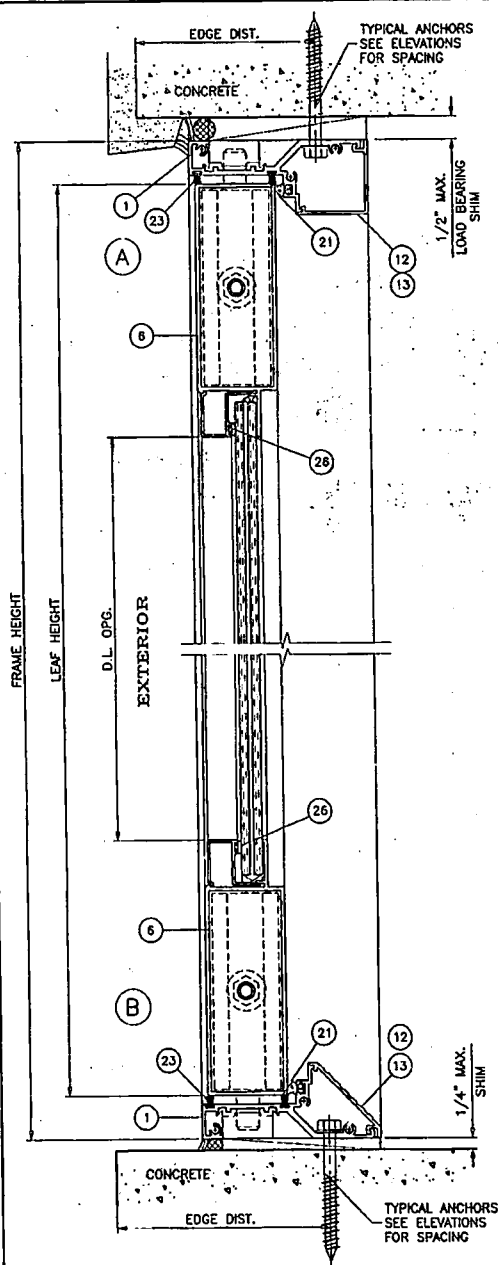
GLAZING OPTIONS



PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 14-1015-0
Expiration Date: 3/31/16
By: [Signature]
Miami, FL Product Control

AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 12235 S.W. 87 AVE. MIAMI, FLORIDA 33174 TEL (305) 264-8100 FAX (305) 262-4978 COMP-ANL W13-01CGI	
SERIES 50116L 160 ALUM. OUTSWING DOOR (LUL/SUL)	
CGI WINDOWS & DOORS 10100 N.W. 25TH STREET MIAMI, FL 33172 TEL (305) 593-6590 FAX (305) 593-6592	
Revisions: (Rev) date by description A 05/02/13 REV. PER PER COMMENTS B 08/28/14 UPDATED TO 2014 FBC C 05/14/15 INTERLAYER & SPACER REV. D 08/05/15 REV. PER PER COMMENTS	date: 01-03-13 scale: 3/8" = 1" dr: BY: HMD chg: by:
drawing no. W13-01	
sheet 5 of 11	

Engr: JAVAD AHMAD
 CML
 FLA. PE # 70592
 C.A.N. 3538
 05/05/2015



WOOD BUCKS AND METAL STRUCTURE NOT BY CGI 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)
 MIN. LENGTH = 2-3/4"

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

TYPE 'B' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 MIN. LENGTH = 2-3/4"
 DIRECTLY INTO CONC. OR MASONRY
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL)
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

TYPE 'C' - 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 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

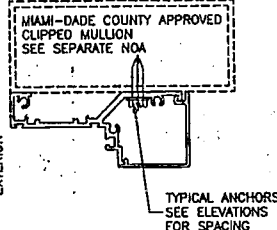
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

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

ANCHORS MAY BE HEX OR FLAT HEAD.

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH GE SCS2000 SILICONE SEALANT.



PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 19-1815-04
 Expiration Date 8/15/15
 By: Shing I. Chang
 Miami-Dade Product Control

Engr: JAVAD AHMAD
 CML
 FLA. PE # 70592
 C.A.N. 8538

DATE: 05 2011

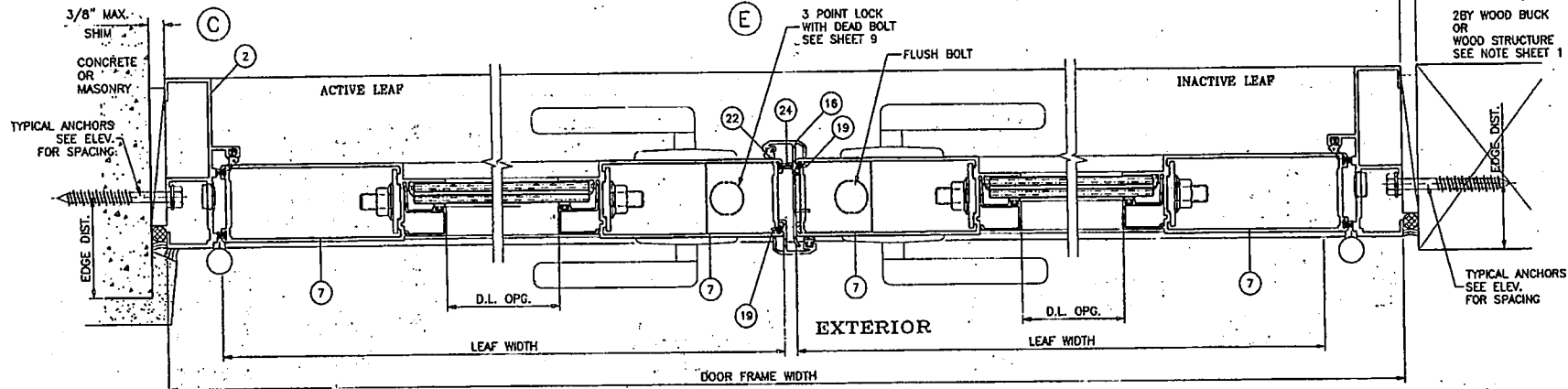
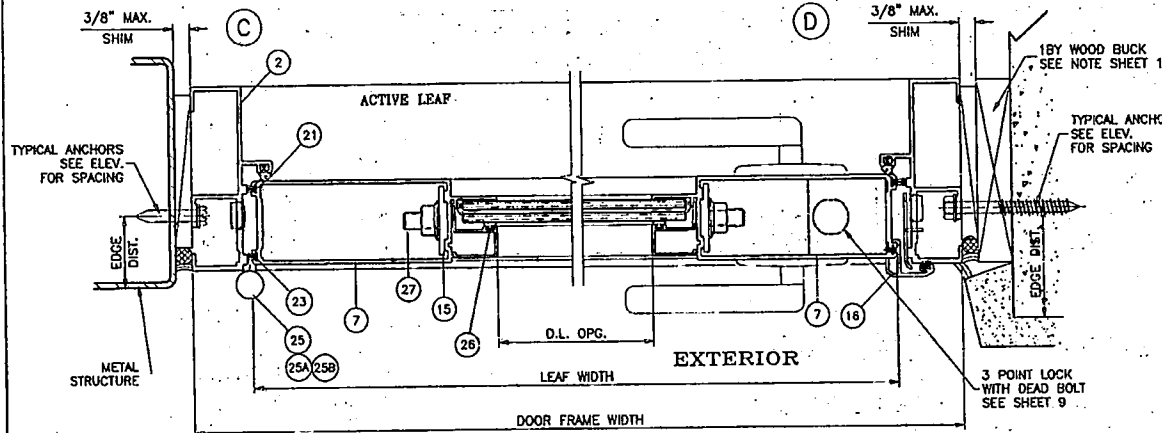
DOOR DETAILS

af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1229 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 262-6978
 FAX (305) 262-6978
 COMP-ANL W13-01CGI

SERIES SENTINEL 160 ALUM OUTSING DOOR (L.M.I./S.M.I.)
CGI WINDOWS & DOORS
 10100 N.W. 25TH STREET
 MIAMI, FL. 33172
 TEL (305) 593-6590 FAX (305) 593-6592

NO.	DATE	BY	DESCRIPTION
1	01-03-13	REV. PER PER COMMENTS	REV. PER PER COMMENTS
2	08-02-13	REV. PER PER COMMENTS	REV. PER PER COMMENTS
3	08-23-14	REV. PER PER COMMENTS	REV. PER PER COMMENTS
4	08-14-15	REV. PER PER COMMENTS	REV. PER PER COMMENTS
5	08-05-15	REV. PER PER COMMENTS	REV. PER PER COMMENTS

date: 01-03-13
 scale: 3/8" = 1"
 dr. by: HAMID
 chg. by:
 drawing no.
W13-01
 sheet 6 of 11



PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-1015.04
 Expiration Date 3-15-15
Mr. Cheng Liang
 No. 2nd Party Product Control

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 12235 S.W. 37 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-5100 FAX (305) 262-6978
 COMP-ANL-W13-01(C)

SERIES SENTINEL 160 ALUM. OUTSWING DOOR (L.M./S.M.)
CGI WINDOWS & DOORS
 10100 N.W. 25TH STREET
 MIAMI, FL. 33172
 TEL (305) 593-6590 FAX (305) 593-6592

REV.	DATE	BY	DESCRIPTION
A	05/02/13	REV. PER RER COMMENTS	
B	03/28/14	UPDATED TO 2014 FBC	
C	03/14/15	REV. PER RER COMMENTS	
D	04/03/15	REV. PER RER COMMENTS	

date: 01-03-15
 scale: 3/8" = 1"
 dr. by: HAWID
 chk. by:

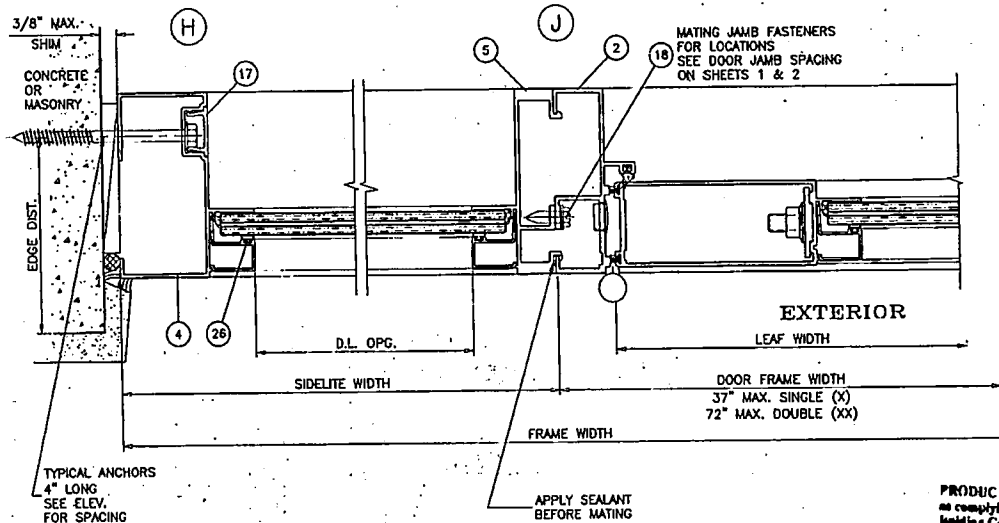
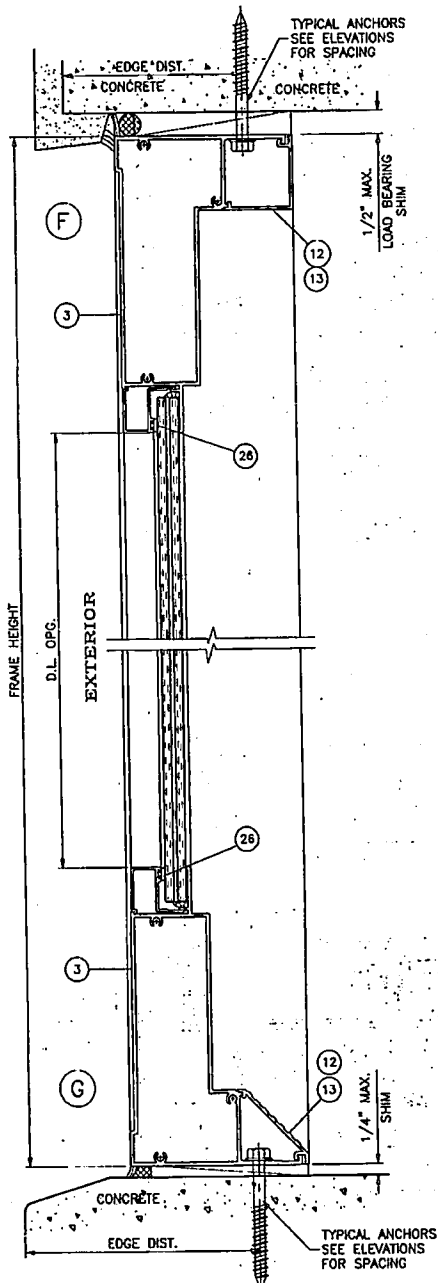
drawing no.
W13-01

(sheet 7 of 11)

Engr: JAVAD AHMAD
 CML
 FLA. PE # 70592
 C.A.N. 3536

DOOR DETAILS

AWG 05 2015



NOTE: LIMIT SHIM TO METAL STRUCTURE AT JAMBS TO 3/8"

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 14-1015-04
Expiration Date 8/15/18
M. Ishag, Product Control

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.N./BS38

AUG 05 2015

SIDELITE DETAILS

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL: (305) 264-8500 FAX: (305) 262-6978
COMP-ANL W13-01CG

SERIES SENTINEL 160 ALUM. OUTSWING DOOR (L.M./S.M.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL: (305) 593-6590 FAX: (305) 593-6592

REV.	DATE	BY	DESCRIPTION
1	03/03/13	REV. PER PER COMMENTS	
2	02/25/14	UPDATED TO 2014 FBC	
3	03/14/15	NO CHANGE THIS SHEET	
4	08/05/15	REV. PER PER COMMENTS	

date: 01-03-13
scale: 3/8" = 1"
dr. by: JAVAD
chk. by:

drawing no.
W13-01

sheet 8 of 11

BILL OF MATERIALS

EXTRUSIONS

ITEM #	PART No.	DESCRIPTION	MATERIAL	MANUF.	REMARKS
1	CGI-189	FRAME HEAD AND SILL	6063-T6	CGI EXTRUDER	
2	CGI-190	FRAME JAMB	6063-T6	CGI EXTRUDER	
3	CGI-196	SIDELITE HEAD AND SILL	6063-T6	CGI EXTRUDER	
4	CGI-197	FREE STANDING SIDELITE JAMB	6063-T6	CGI EXTRUDER	
5	CGI-198	MATING SIDELITE JAMB	6063-T6	CGI EXTRUDER	
6	CGI-193	PANEL TOP AND BOTTOM RAIL	6063-T6	CGI EXTRUDER	
7	CGI-194	PANEL VERTICAL STILE	6063-T6	CGI EXTRUDER	
9	CGI-199	SHEAR BLOCK	6063-T6	CGI EXTRUDER	
12	CGI-191	FRAME HEAD AND SILL CREW COVER	6063-T5	CGI EXTRUDER	
13	CGI-192	FRAME HEAD AND SILL SLANTED SCREW COVER	6063-T5	CGI EXTRUDER	
14	CGI-121	7/16" GLASS GLAZING BEAD	6063-T5	CGI EXTRUDER	
14A	CGI-123	1" GLASS GLAZING BEAD	6063-T5	CGI EXTRUDER	
15	CGI-200	SHEAR BLOCK PLATE	6063-T6	CGI EXTRUDER	
16	CGI-195	ASTRAGAL	6063-T5	CGI EXTRUDER	
17	CGI-508	SCREW COVER	6063-T5	CGI EXTRUDER	

LOCKING HARDWARE

	PART No.	DESCRIPTION	MATERIAL	MANUF.	REMARKS
	CGI-4500PL	3 POINT LOCK ASSEMBLY (ACTIVE LEAF)		CGI-CUSTOM	USED BY ALL OPTIONS
	CGI-1204	FLUSHBOLT ASSEMBLY (INACTIVE LEAF)		CGI-CUSTOM	USED BY ALL OPTIONS
OPTION 1	5455 PASS	ACTIVE LEVER (ACTIVE LEAF)		BALDWIN	
	5455 FD	DUMMY LEVER (INACTIVE LEAF)		BALDWIN	OPTIONAL
	8231	DEADBOLT (ACTIVE LEAF)		BALDWIN	
OPTION 2	JD60	DEADBOLT (ACTIVE LEAF)		DEXTER BY SCH	
	J10 TOR645	ACTIVE LEVER (ACTIVE LEAF)		DEXTER BY SCH	
	J10 TOR605	DUMMY LEVER (INACTIVE LEAF)		DEXTER BY SCH	OPTIONAL
OPTION 3	DB2410	DEADBOLT (ACTIVE LEAF)		COPPER CREEK	
	ML2220	ACTIVE LEVER (ACTIVE LEAF)		COPPER CREEK	
	ML2220	DUMMY LEVER (INACTIVE LEAF)		COPPER CREEK	OPTIONAL

SCREWS

ITEM #	PART No.	DESCRIPTION	REMARKS
18		# 14 X 3/4" HEX HEAD TEXS - MULLION ATTACHMENT	
19		# 6 X 1/2" PAN HEAD SHS - ASTRAGAL ATTACHMENT	12" FROM ENDS
20		# 10 X 1 1/4" PH SHS - ASSEMBLY	3 PER CORNER

MISCELLANEOUS

ITEM #	CODE	PART No.	DESCRIPTION	MATERIAL	MANUF.	REMARKS
21	H18	XC-1947	FRAME GASKET	FOAM	AMESBURY DR EQUIV	
22	H6	32084	.350 FOAM GASKET	FOAM	AMESBURY DR EQUIV	
23	H5	V3332MG	.187 X .320 WEATHERSTRIP PILE W/ CENTER FIN	WOOL	ULTRAFAB DR EQUIV	
24	H8	V3332MG	.187 X .500 HIGH PILE W/STRIPPING	WOOL W/ FIN	ULTRAFAB DR EQUIV	
25	H9	CH-108-B	HINGE (4 1/2" X 4")	ALUMINUM	CGI-CUSTOM	ATTACHED WITH (8) #12-24X1/2" PH SHS
25A	H9	A8800-US32D	HINGE (4 1/2" X 4")	BRASS	HAGER	ATTACHED WITH (8) #12-24X1/2" PH SHS
25B	H11	A8800-US3	HINGE (4 1/2" X 4")	S/S	HAGER	ATTACHED WITH (8) #12-24X1/2" PH SHS
26	H4	CGI-382V	GLAZING BEAD BULB	VMYL	CGI-CUSTOM	
27	H7		3/8"-16 FULLY THREADED ROD - SECURED WITH 3/8" HEX NUT	ZINC PLATED		
28	-		SETTING BLOCK (2 PER LITE)	EPDM		DURHETER 8045 SHORE A

NOTE: ITEM NUMBERS 8, 10 & 11 ARE NOT USED

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-1015-04
Expiration Date 8/15/15
By: [Signature]
Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 262-8500 FAX (305) 262-8978
COMP-ANL W13-01001

SERIES SENTINEL 160 ALUM OUTSWING DOOR (L.M.L./S.M.L.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

REVISIONS:
BY: [Signature]
DATE: 08/05/13
DESCRIPTION: REV PER COMMENTS
A 08/02/13
B 08/29/14
C 08/14/15
D 08/05/15
NO CHANGE THIS SHEET
NO CHANGE THIS SHEET

Scale: 1/8" = 1'-0"
Dr. by: HAND
Chk. by:

drawing no.
W13-01
sheet 9 of 11

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

AUG 05 2015

31.03.11

31.03.11

AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL/W13-01CGI

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592
SERIES SENTINEL 160 ALUM OUTSWING DOOR (LWT/SMT)

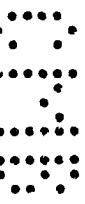
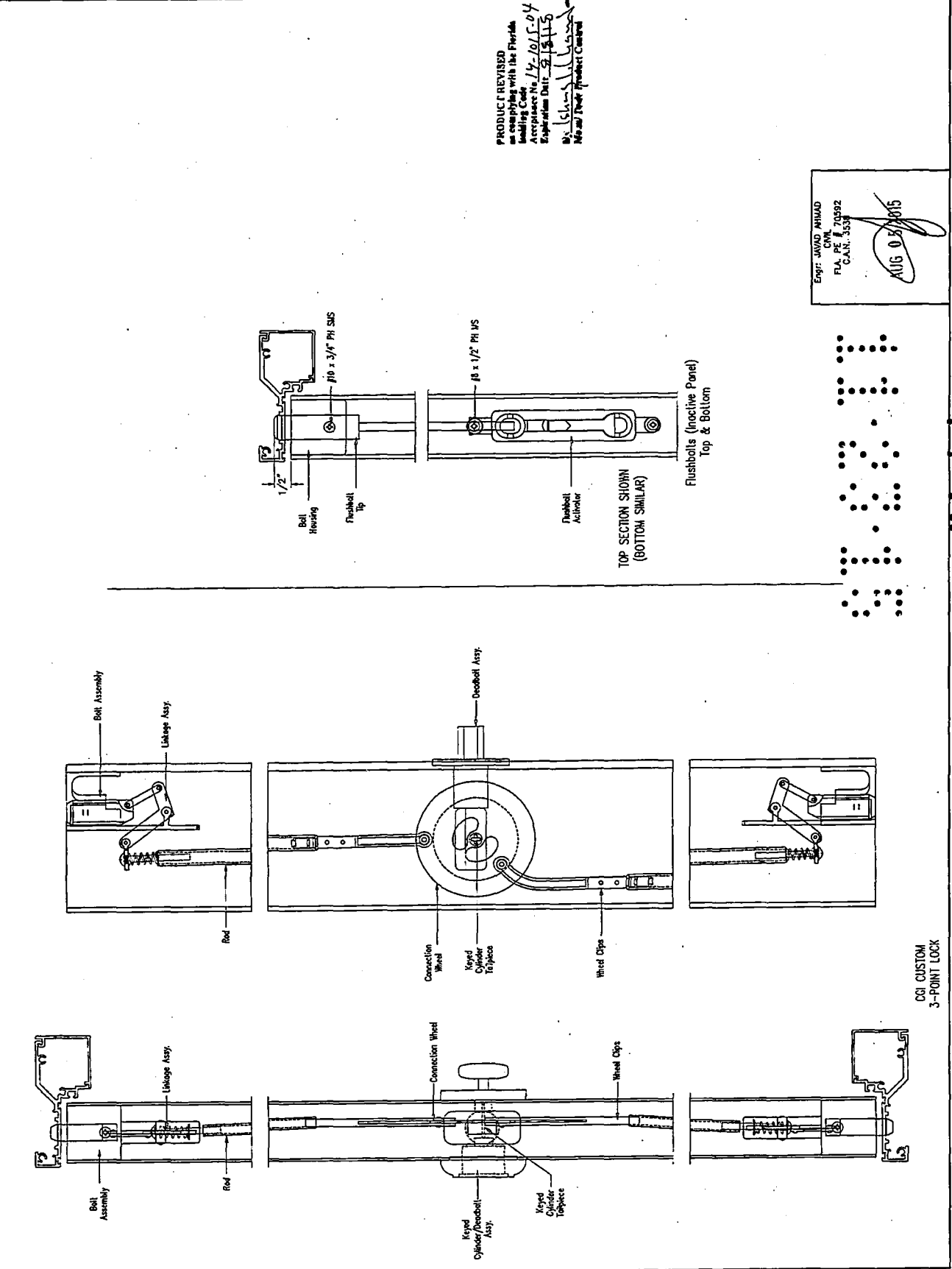
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no	date
A	03.02.13
B	09.29.14
C	03.14.15
D	08.05.15

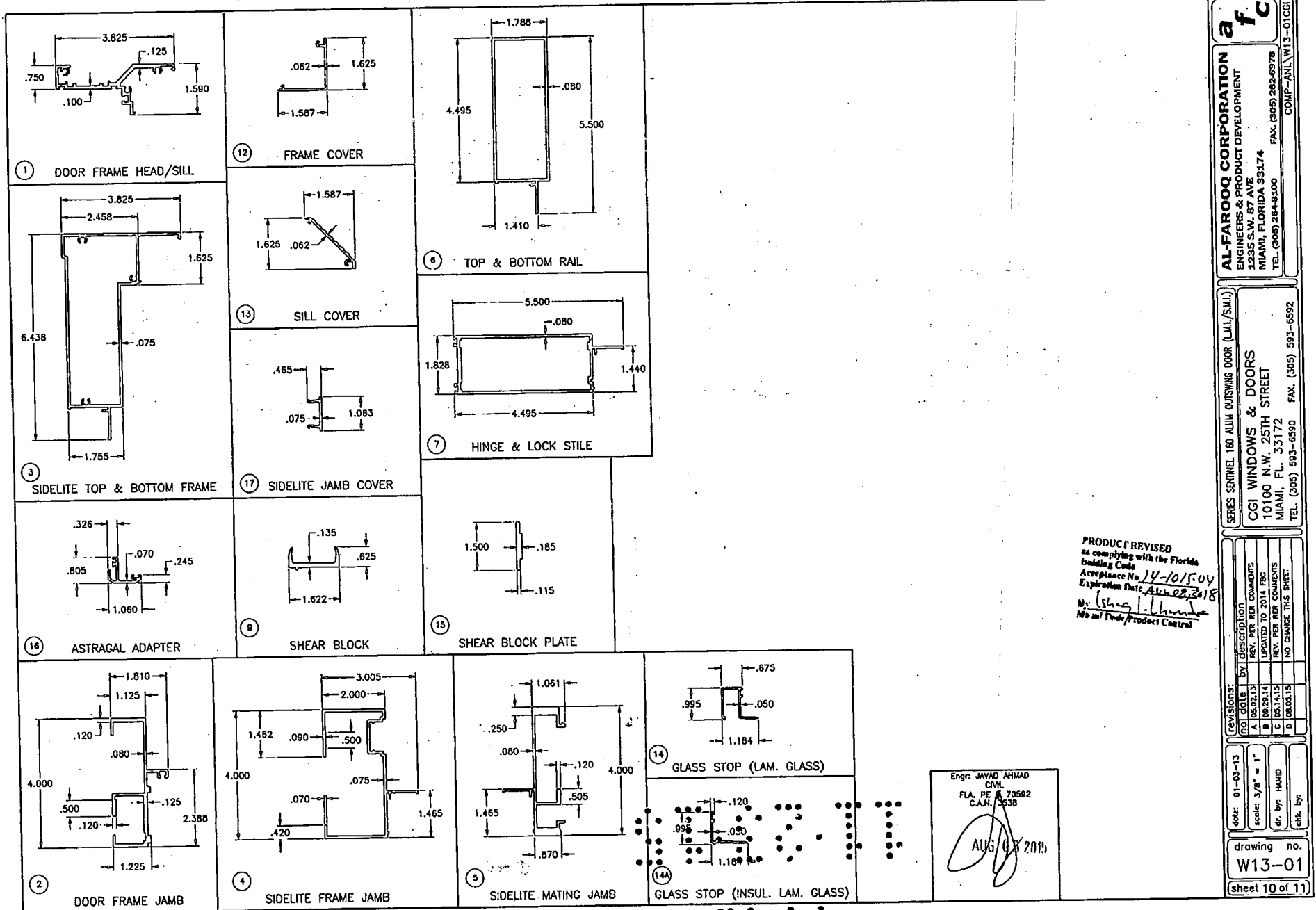
REV. PER PER COMMENTS
UPDATED TO 2014 FBC
NO CHANGE THIS SHEET
NO CHANGE THIS SHEET

check by: HMMO
scale: 3/8" = 1"
date: 01-03-13

drawing no: **W13-01**
sheet 9 of 11

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70592
CAN. 3539
AUG 05/2015





PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-101504
Expiration Date 11/15/2018
Mr. Shuaib I. Ahmad
No and Tech/Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.H. 3538

AUG 08 2015

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL: (305) 284-8100 FAX: (305) 282-6978
COMP-ANL W13-01C31

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL: (305) 593-6390 FAX: (305) 593-6592

REVISIONS:	DATE	DESCRIPTION
A	05/02/13	REV. PER COMMENTS
B	08/29/14	UPDATED TO 2014 FBC
C	05/14/15	REV. PER REV COMMENTS
D	08/03/15	NO CHANGE THIS SHEET

date: 01-03-13

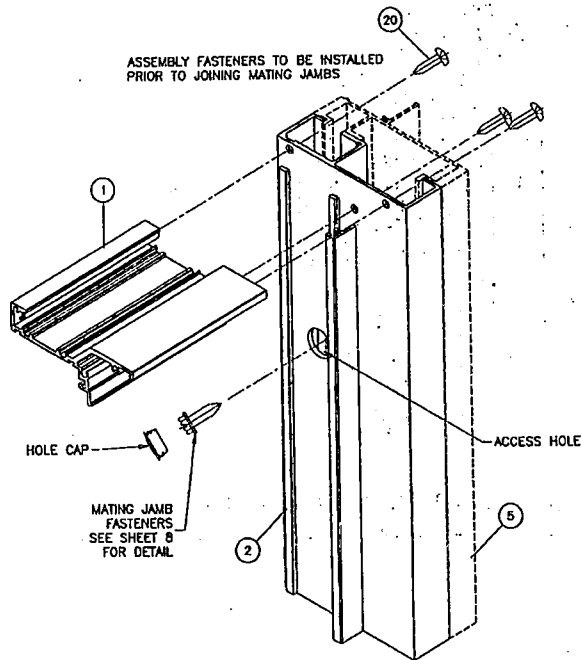
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dr. by: HAMID

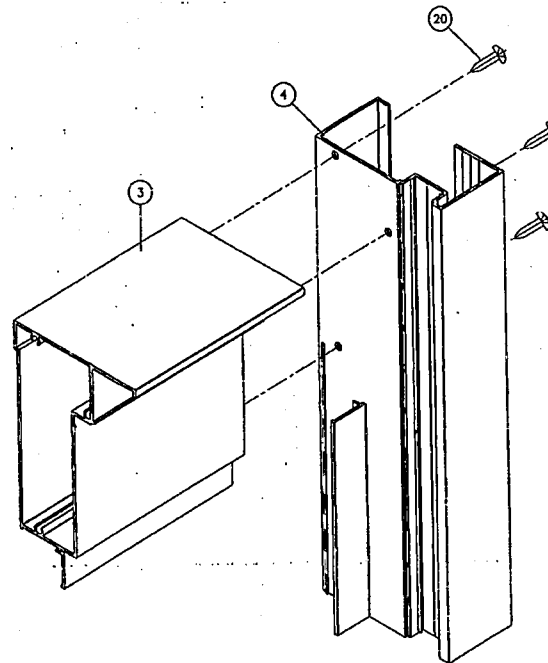
chk. by:

drawing no.
W13-01

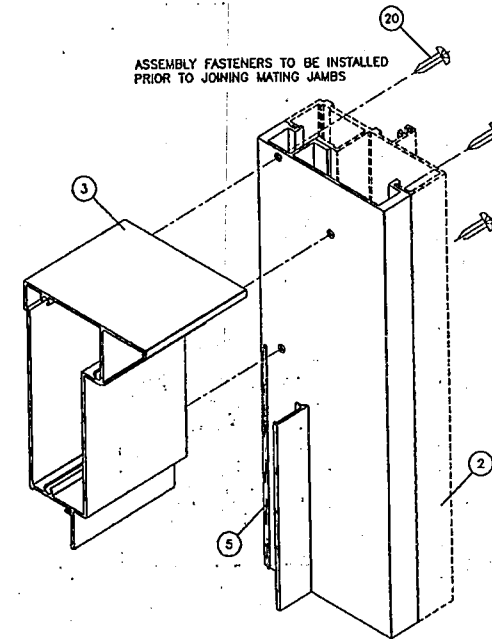
sheet 10 of 11



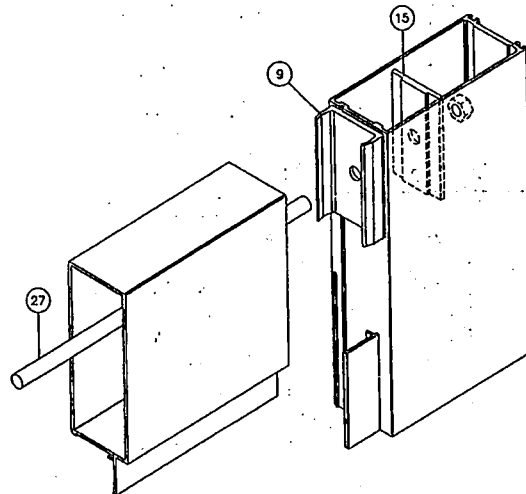
DOOR FRAME TOP & BOTTOM CORNER



SIDELITE JAMB CORNER
TOP & BOTTOM



SIDELITE MATING JAMB CORNER
TOP & BOTTOM



LEAF TOP & BOTTOM CORNER

570377

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3535

AUG 05/2015

AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL: (305) 264-8100 FAX: (305) 262-8978 COMP-ANL W13-01CGI	
SERIES SCHWEL 160 ALUM. OUTSWING DOOR (L.M./S.M.) CGI WINDOWS & DOORS 10100 N.W. 25TH STREET MIAMI, FL. 33172 TEL: (305) 593-6590 FAX: (305) 593-6592	
(REVISIONS) NO. DATE BY DESCRIPTION A 03/02/13 PEP PER PER COMMENTS B 09/23/14 UPDATED TO 2014 FBC C 03/14/15 NO CHANGE THIS SHEET D 08/05/15 NO CHANGE THIS SHEET	Date: 01-03-13 Scale: 3/8" = 1" Dr. By: HAMID Chk. By:
drawing no. W13-01 sheet 11 of 11	



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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

www.miamidade.gov/economy

CGI Windows and Doors, Inc.

10100 NW 25 Street

Miami, FL 33172

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 "238" Outswing Aluminum Casement Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. W98-100, titled "Series-238 Alum Outswing Casement Wdw. (L.M.I.)", sheets 1, 1.1, 2, 3, 4, 5, 5.1, 6 and 7 of 7, dated 12/04/98, with revision J dated 04/10/15, 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: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/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# 14-0506.01 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

Handwritten signature and date: 9/9/15

NOA No. 15-0512.19
Expiration Date: October 26, 2015
Approval Date: September 17, 2015

Page 1

CGI Windows and Doors, Inc.

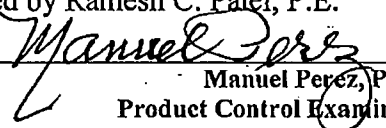
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA's # 96-0417.03 and # 01-1002.03)
2. Drawing No. W98-100, titled "Series-238 Alum Outswing Casement Wdw. (L.M.I.)", sheets 1; 1.1, 2, 3, 4, 5, 5.1, 6 and 7 of 7, dated 12/04/98, with revision J dated 04/10/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

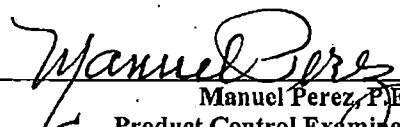
1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 7500 PVC fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WA, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 7400 PVC project out window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WB, dated 03/03/15, signed and sealed by Ramesh C. Patel, P.E.
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 238 aluminum fixed window, to qualify DuPont "Butacite" PVB interlayer, Duraseal® and Super Spacer® insulating glass spacer, prepared by Certified Test Laboratories, Test Report No. CTLA-3056 WC, dated 04/16/15, signed and sealed by Ramesh C. Patel, P.E.
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
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 318 outswing aluminum casement window, prepared by Certified Testing Laboratories, Test Report No. CTL-3009WB, dated 03/24/14, signed and sealed by Ramesh C. Patel, P.E.
(Submitted under previous NOA # 14-0506.01)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.19
Expiration Date: October 26, 2018
Approval Date: September 17, 2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum casement window, prepared by American Test Lab of South Florida, Inc., Test Report No. **ATLSF-1109.01-12**, dated 11/20/12, signed and sealed by Henry Hattem, P.E.
(Submitted under NOA # 12-1220.14)
6. 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) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Testing Lab., Inc., Test Reports No. **HTL-0080-0301-07** for specimen A and B, and **HTL-0080-0905-07** for specimen B and C, dated 09/21/07 and 10/12/06, both signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA # 08-1010.02)
7. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum outswing casement window, prepared by Hurricane Engineering & Testing, Inc., Test Reports No. **HETI-08-2143**, **HETI-08-2144**, **HETI-08-4287** and **HETI-07-4298**, dated 06/27/08 and 07/17/08, all signed and sealed by Candido F. Font, P.E.
(Submitted under NOA # 08-1010.02)
8. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Test Laboratory, Inc., Test Reports No. **HTL-0080-0303-96** and **HTL-0080-1107-98**, dated 03/06/96 and 11/10/98, both signed and sealed by Timothy S. Marshall, P.E.
(Submitted under NOA's # 96-0417.03 and # 01-1002.03)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.19
Expiration Date: October 26, 2018
Approval Date: September 17, 2015

CGI Windows and Doors, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

9. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94

along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Reports No. FTL-1003 and FTL-1041, dated 10/14/94, both signed and sealed by Yamil Kuri, P.E.
(Submitted under NOA # 96-0417.03)

C. CALCULATIONS

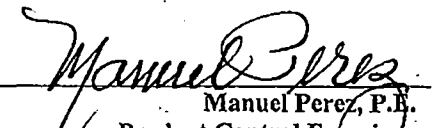
1. Anchor verification calculations and structural analysis, complying with FBC-2010, dated 4/24/14, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under previous NOA # 14-0506.01)
2. Glazing complies with ASTM E1300-09

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. for their "SentryGlas® (Clear and White) Glass Interlayers" dated 06/25/15, expiring on 07/04/18.
2. 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.
3. Notice of Acceptance No. 14-0423.15 issued to Eastman Chemical Company (MA) for their "Saflex CP - Saflex and Saflex HP Composite Glass Interlayers with PET Core" dated 06/19/14, expiring on 12/11/18.
4. Notice of Acceptance No. 14-0423.17 issued to Eastman Chemical Company (MA) for their "Saflex Clear and Color Glass Interlayers" dated 06/19/14, expiring on 05/21/16.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.19
Expiration Date: October 26, 2018
Approval Date: September 17, 2015

CGI Windows and Doors, Inc.

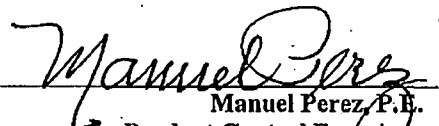
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

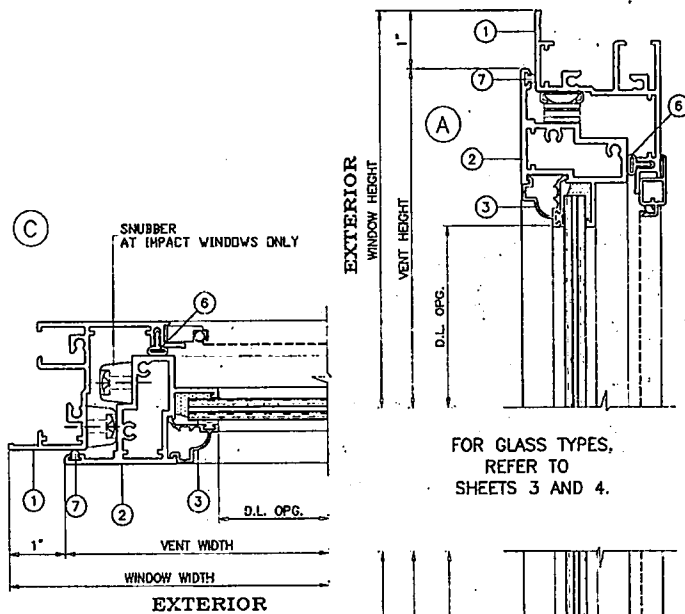
1. Statement letter of conformance, complying with **FBC- 5th Edition (2014)**, dated April 11, 2014, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
(Submitted under previous NOA # 14-0506.01)
2. Proposal No. **13-1098** issued by the Product Control Section, dated October 02, 2013 and revised on February 24, 2014, signed by Manuel Perez, P.E.
(Submitted under previous NOA # 14-0506.01)
3. Laboratory compliance letters for Test Reports No. **HTL-0080-0301-07** for specimen A and B and **HTL-0080-0905-07** for specimen B and C, issued by Hurricane Test Laboratory, Inc., dated 09/21/07 and 10/12/06, both signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA # 08-1010.02)
4. Laboratory compliances letters for Test Reports No. **HETI-08-2143**, **HETI-08-2144**, **HETI-08-4287** and **HETI-07-4298**, issued by Hurricane Engineering & Testing, Inc., dated 06/27/08 and 07/17/08, all signed and sealed by Candido F. Font, P.E.
(Submitted under NOA # 08-1010.02)
5. Laboratory compliance letters for Test Reports No. **HTL-0080-0303-96** and **HTL-0080-1107-98**, issued by Hurricane Test Laboratory, Inc., dated 03/06/96 and 11/10/98, both signed and sealed by Timothy S. Marshall, P.E.
(Submitted under NOA # 96-0417.03 and 01-1002.03)
6. Laboratory compliance letters for Test Reports No. **FTL-1003** and **FTL-1041**, issued by Fenestration Testing Laboratory, Inc., dated 10/14/94, both signed and sealed by Yamil Kuri, P.E.
(Submitted under NOA # 96-0417.03)
7. Test Proposal for the qualification of **Butacite®** PVB glass interlayer by Kuraray America, Inc., as well as **Duraseal®** and **Super Spacer® Standard** warm-edge flexible insulating glass spacers, dated December 16, 2014, issued by RER, Product Control Section, signed by Jaime Gascon, P.E., Supervisor, Product Control Section.

G. OTHERS

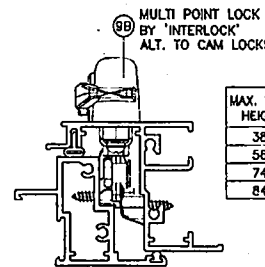
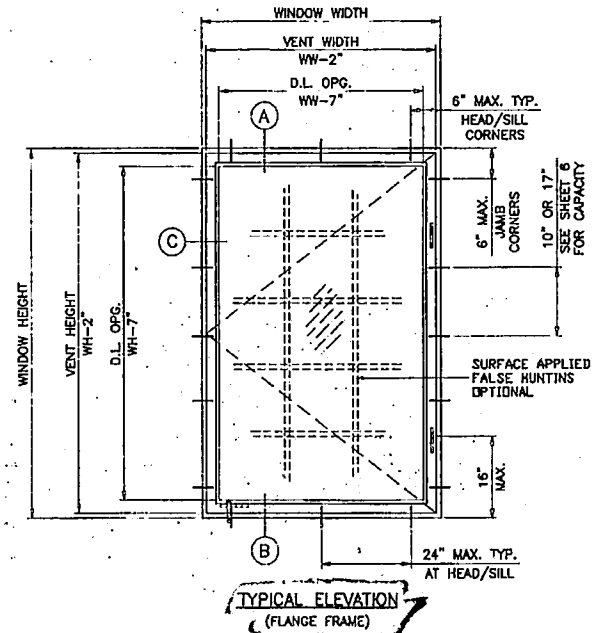
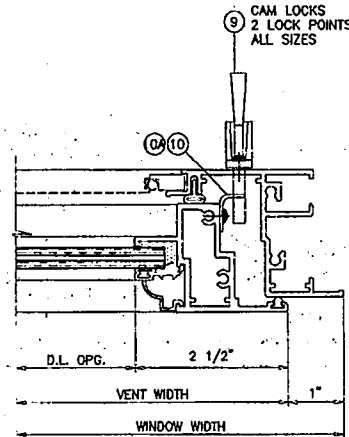
1. Notice of Acceptance No. **14-0506.01**, issued to CGI Windows & Doors, Inc. for their Series "238" Outswing Aluminum Casement Window - L.M.I., approved on 06/26/14 and expiring on 10/26/18.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0512.19
Expiration Date: October 26, 2018
Approval Date: September 17, 2015

GENERAL WINDOW SECTIONS FLANGE FRAME



FOR GLASS TYPES,
REFER TO
SHEETS 3 AND 4.



MAX. WDW. HEIGHT	LOCK POINTS
42"	2
63"	3
84"	4

MAX. WDW. HEIGHT	LOCK POINTS
38"	2
56"	3
74"	4
84"	5

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

FOR MULLION/MULTIPLE UNITS, REFER TO
SEPARATE CGI MULLION N.O.A.

Engr. JAVAD AHMAD
CML
FLA. REG. # 70592
CAN. 3538
MAY 04 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.19
Expiration Date 05/26/2018
By: [Signature]
Aluminum Product Control

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- SEE CHARTS ON SHEETS 3 AND 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE/TYPE.
- USING CHART ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- IF ALUMINUM BUCK SYSTEM IS USED USE CHART ON SHEET 7 TO DETERMINE CAPACITY.
- THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- ANCHORS SHALL BE AS SHOWN, SPACED AS SHOWN. DETAILS OF ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
4235 S.W. 87 AVE
MIAMI, FL 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP - AIL W98-100CG

SERIES-238 ALUM. OUTSWING CASEMENT WDW. (L.M.I.)

CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

REV.	DATE	DESCRIPTION
1	02.21.12	UPDATED TO 2010 FBC
2	12.06.12	LOCK OPTION ADDED
3	12.28.13	REV. PER RER COMMENTS
4	04.23.14	GENERAL REVISION
5	04.10.15	NO CHANGE THIS SHEET

Series: 12-01-88

Scale: 1/2" = 1"

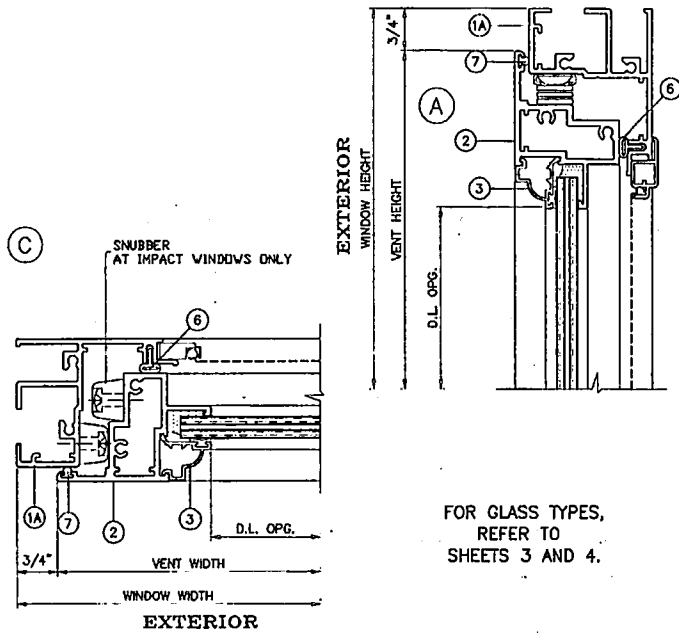
Dr. BY: HAVID

CHK. BY:

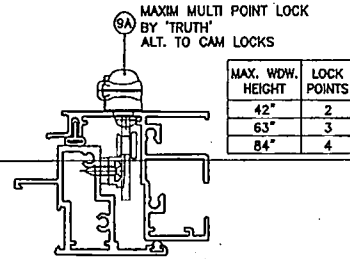
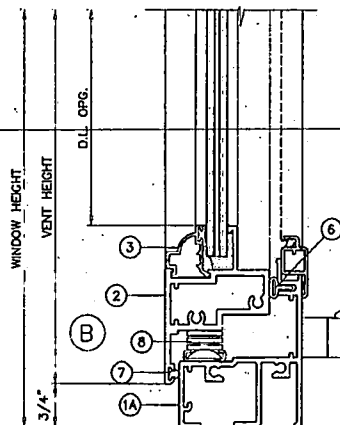
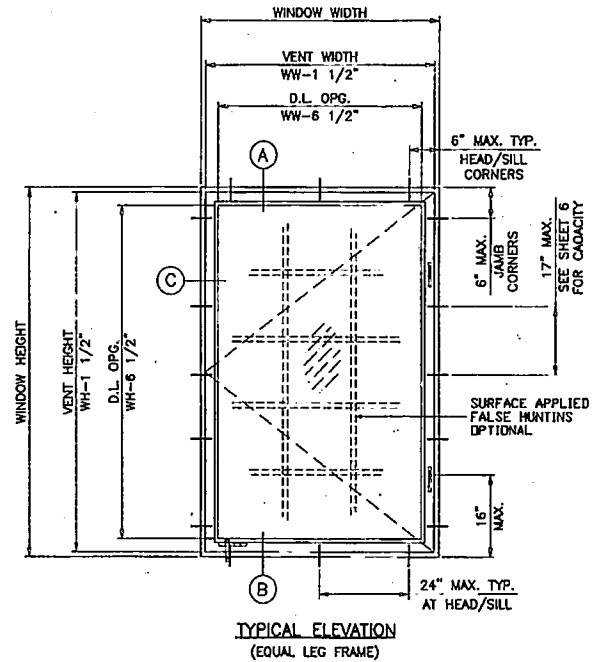
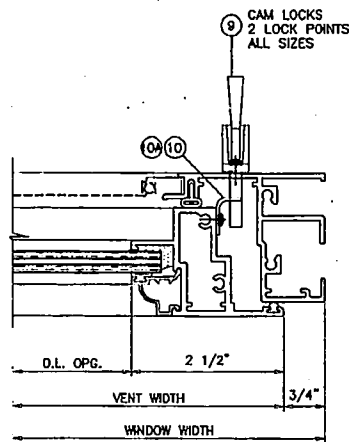
Drawing no. **W98-100**

Sheet 1 of 7

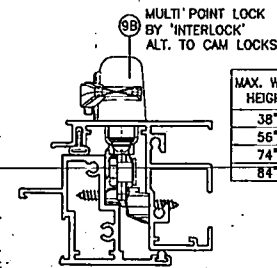
**GENERAL WINDOW SECTIONS
EQUAL LEG FRAME**



FOR GLASS TYPES,
REFER TO
SHEETS 3 AND 4.



MAX. WDW. HEIGHT	LOCK POINTS
42"	2
63"	3
84"	4



MAX. WDW. HEIGHT	LOCK POINTS
38"	2
56"	3
74"	4
84"	5

Engr: JAVAD AHMAD
CIVIL
FLA. P.E. # 70592
C.A.N. 3538
MAY 04 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.19
Expiration Date 03-26-2018
By *Manuel*
Miami Trade Product Control

afC

AL-FAROOG CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-4300 FAX (305) 262-6978
COMP-ANL W98-100CG

SERIES-238 ALUM. OUTSWING CASSETT WDW. (L.M.I.)

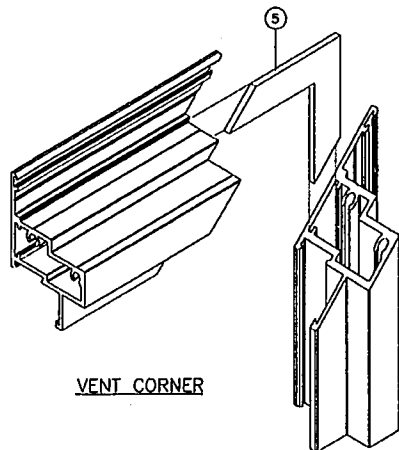
CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-4592

NO.	DATE	BY	DESCRIPTION
F	12.21.12		NO CHANGE THIS SHEET
G	12.06.12		LOCK OPTION ADDED
H	12.28.13		REV. PER PER COMMENTS
I	14.25.14		NO CHANGE THIS SHEET
J	14.10.15		NO CHANGE THIS SHEET

date: 12-04-98
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

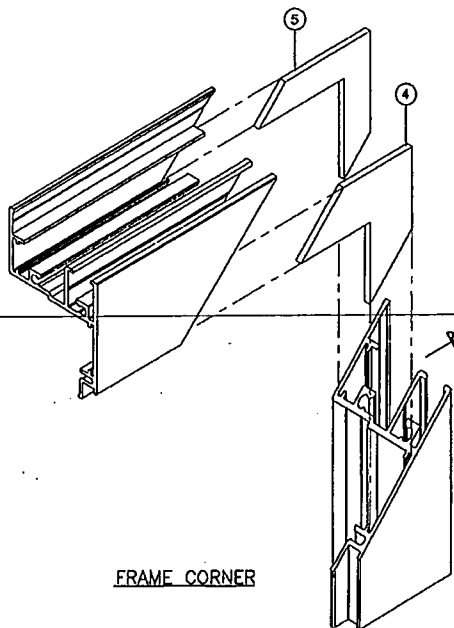
drawing no.
W98-100
sheet 1 of 7

040

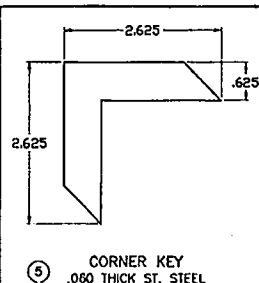


VENT CORNER

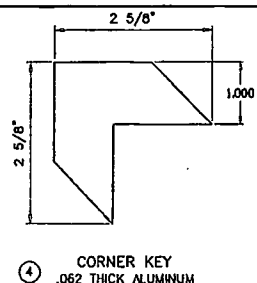
ALL FRAME AND VENT CORNERS TO BE SEALED WITH GE SILPRUF OR EQUIV.



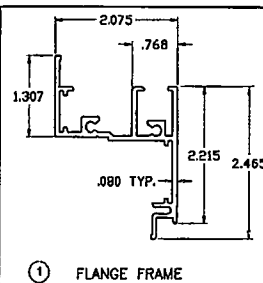
FRAME CORNER



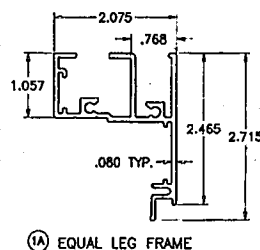
5 CORNER KEY
.060 THICK ST. STEEL



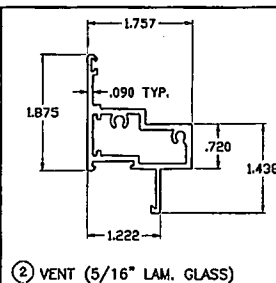
4 CORNER KEY
.062 THICK ALUMINUM



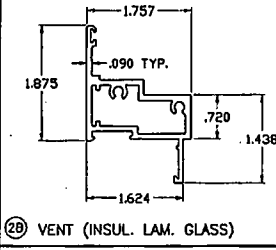
1 FLANGE FRAME



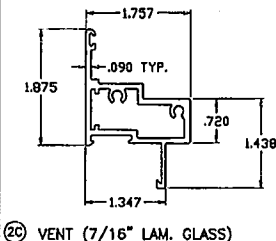
1A EQUAL LEG FRAME



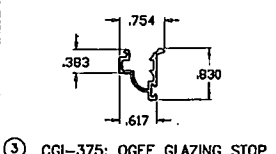
2 VENT (5/16" LAM. GLASS)



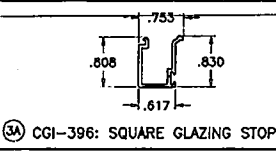
2B VENT (INSUL. LAM. GLASS)



2C VENT (7/16" LAM. GLASS)



3 CGI-375: OGEE GLAZING STOP



3A CGI-396: SQUARE GLAZING STOP

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	CGI-373	4	FLANGE FRAME	6063-T6	INDALEX OR EQUIV.
1A	CGI-397	4	EQUAL LEG FRAME	6063-T6	INDALEX OR EQUIV.
2	CGI-378	4	VENT (5/16" LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
2B	CGI-381	4	VENT (INSUL. LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
2C	CGI-385	4	VENT (7/16" LAM. GLASS)	6063-T6	INDALEX OR EQUIV.
3	CGI-375	4	OGEE GLAZING BEAD	6063-T5	INDALEX OR EQUIV.
3A	CGI-396	4	SQUARE GLAZING BEAD	6063-T5	INDALEX OR EQUIV.
4	-	4	.060 THICK CORNER KEY	ALUMINUM	-
5	-	8	.060 THICK CORNER KEY	ST. STEEL	-
6	AP-425	AS REQD.	FRAME WEATHERSTRIPPING	-	SCHLEGEL APTUS
7	Q250-K-190	AS REQD.	VENT WEATHERSTRIPPING	-	SCHLEGEL Q-LON
8	35-10-00-101	2/ VENT	4 BAR HINGE, AT TOP AND BOTTOM	STEEL	TRUTH, ATTACHED W/ (6) #8 X 3/8" SS SMS
9	24-13-00-202	2/ VENT	FACE MOUNT LOCK	STEEL	TRUTH, ATTACHED W/ (2) #8 X 3/8" SMS
9A	-	1/ VENT	MULTI POINT LOCK	-	TRUTH
9B	-	1/ VENT	MULTI POINT LOCK	-	INTERLOCK
10	-	2/ VENT	.110 THICK LOCK KEEPER, AT FRAME JAMB FACING LOCK	STEEL	CGI, ATTACHED W/ (2) #10 X 3/8" SS SMS
11	-	1	OPERATOR (OPTIONAL)	STEEL	TRUTH, ATTACHED W/ (2) #8 X 3/8" SS SMS
11A	-	1	OPERATOR (OPTIONAL)	STEEL	INTERLOCK
12	30175	1	OPERATOR TRACK	STEEL	TRUTH, ATTACHED W/ (2) #8 X 3/8" SS SMS
13	-	2/ CORNER	FRAME AND VENT ASSEMBLY SCREWS	-	#10 X 1-1/4" SS SMS

97.00.11

97.00.11

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

MAY 13 2015

PRODUCT REVISED
on complying with the Florida
Building Code
Acceptance No. 15-0512.19
Expiration Date 02.06.2018
By *Manuel Frez*
Miami Trade Product Control

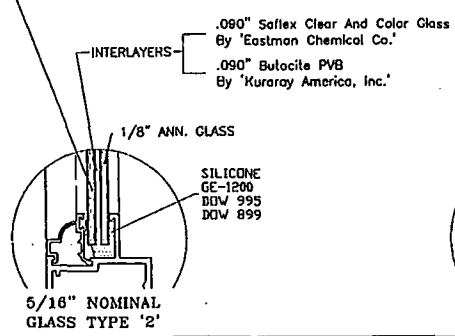
afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL: (305) 264-8100 FAX: (305) 262-8978
COMP-ANL W98-100CG

SERIES-238 ALUM. OUTSWING CASEMENT WIND. (L.M.I.)
CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL: (305) 593-6390 FAX: (305) 593-6592

REVISIONS:
NO. DESCRIPTION
A 02.11.12 NO CHANGE THIS SHEET
B 02.06.12 LOCK OPTION ADDED
C 02.28.13 REV. PER RER COMMENTS
D 04.25.14 NO CHANGE THIS SHEET
E 04.10.15 NO CHANGE THIS SHEET

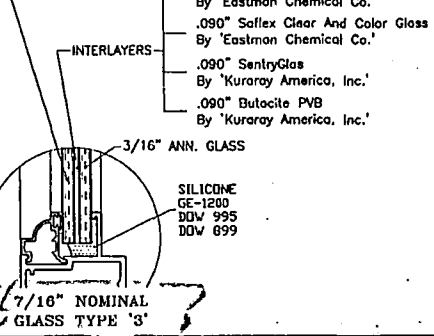
Scale: 1/2" = 1"
Date: 12-01-98
By: *MAN*
CHK: *BY*
drawing no.
W98-100
sheet 2 of 7

1/8" ANN. GLASS



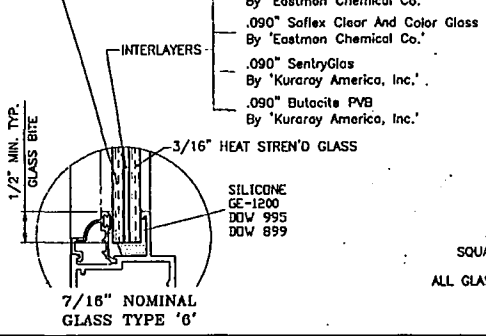
5/16" NOMINAL
GLASS TYPE '2'

3/16" ANN. GLASS



7/16" NOMINAL
GLASS TYPE '3'

3/16" HEAT STREND GLASS



7/16" NOMINAL
GLASS TYPE '6'

SQUARE BEAD
OPTIONAL
ALL GLASS TYPES

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS					
WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
20"	36"	110.0	194.3	110.0	195.0
24"		110.0	161.9	110.0	195.0
28"		110.0	138.8	110.0	195.0
30"		110.0	129.5	110.0	195.0
32"		110.0	121.4	110.0	195.0
36"	42"	107.9	107.9	110.0	195.0
40"		97.1	97.1	110.0	195.0
42"		92.5	92.5	110.0	195.0
20"	48"	110.0	166.5	110.0	195.0
24"		110.0	138.8	110.0	195.0
28"		110.0	118.9	110.0	195.0
30"		110.0	111.0	110.0	195.0
32"		104.1	104.1	110.0	195.0
36"	54"	92.5	92.5	110.0	195.0
40"		83.3	83.3	110.0	195.0
42"		79.3	79.3	110.0	195.0
20"	60"	110.0	145.7	110.0	195.0
24"		110.0	121.4	110.0	195.0
28"		103.8	104.1	110.0	195.0
30"		97.1	97.1	110.0	195.0
32"		91.1	91.1	110.0	195.0
36"	72"	80.9	80.9	110.0	195.0
40"		72.8	72.8	110.0	195.0
42"		69.4	69.4	110.0	195.0
20"	84"	110.0	129.5	110.0	195.0
24"		98.0	107.9	110.0	195.0
28"		88.2	92.5	110.0	195.0
30"		84.4	86.3	110.0	195.0
32"		80.9	80.9	110.0	195.0
36"	96"	71.9	71.9	110.0	195.0
40"		64.8	64.8	110.0	195.0
42"		61.7	61.7	110.0	195.0

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS					
WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
20"	60"	98.8	112.6	110.0	195.0
24"		85.8	95.4	110.0	195.0
28"		76.7	83.3	110.0	195.0
30"		73.2	77.7	110.0	195.0
32"		70.2	72.8	110.0	195.0
36"	72"	64.8	64.8	110.0	195.0
40"		60.0	60.0	110.0	195.0
42"		60.0	60.0	110.0	195.0
20"	84"	86.7	86.7	110.0	195.0
24"		73.4	73.4	110.0	195.0
28"		64.2	64.2	110.0	195.0
30"		60.6	60.6	110.0	195.0
32"		57.5	57.5	110.0	195.0
36"	96"	60.0	60.0	110.0	195.0
40"		60.0	60.0	110.0	195.0
42"		60.0	60.0	110.0	195.0
20"	108"	56.4	56.4	110.0	195.0
24"		56.1	56.1	110.0	195.0
28"		48.9	48.9	110.0	195.0
30"		46.0	46.0	110.0	195.0
32"		43.6	43.6	110.0	195.0
36"	120"	60.0	60.0	110.0	195.0
40"		60.0	60.0	110.0	195.0
42"		60.0	60.0	110.0	195.0
20"	144"	52.0	52.0	110.0	195.0
24"		43.8	43.8	110.0	195.0
28"		38.1	38.1	110.0	195.0
30"		38.1	38.1	110.0	195.0
32"		38.1	38.1	110.0	195.0
36"	168"	51.2	51.2	110.0	195.0
40"		41.5	41.5	110.0	195.0
42"		34.9	34.9	110.0	195.0
20"	192"	51.2	51.2	110.0	195.0
24"		41.5	41.5	110.0	195.0
28"		34.9	34.9	110.0	195.0
30"		34.9	34.9	110.0	195.0
32"		34.9	34.9	110.0	195.0

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS NO SHUTTERS REQUIRED REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS					
WINDOW DIMS.		GLASS TYPE '2'		GLASS TYPE '3'	
WIDTH	HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
19-1/8"	28"	110.0	195.0	110.0	195.0
26-1/2"		110.0	195.0	110.0	195.0
37"		110.0	145.4	110.0	195.0
42"		110.0	128.1	110.0	195.0
42"		110.0	190.6	110.0	195.0
19-1/8"	38-3/8"	110.0	137.5	110.0	195.0
26-1/2"		110.0	145.4	110.0	195.0
37"		98.5	98.5	110.0	195.0
42"		86.8	86.8	110.0	195.0
42"		110.0	144.5	110.0	195.0
19-1/8"	50-5/8"	99.7	104.3	110.0	195.0
26-1/2"		74.7	74.7	110.0	195.0
37"		65.8	65.8	110.0	195.0
42"		63.0	63.0	110.0	195.0
42"		63.0	63.0	110.0	195.0
19-1/8"	63"	74.9	77.9	110.0	195.0
26-1/2"		60.0	60.0	110.0	195.0
37"		60.0	60.0	110.0	195.0
42"		60.0	60.0	110.0	195.0
42"		60.0	60.0	110.0	195.0
19-1/8"	74-1/4"	63.0	63.0	110.0	195.0
26-1/2"		46.6	46.6	110.0	195.0
37"		59.8	59.8	110.0	195.0
42"		56.3	56.3	110.0	195.0
42"		56.3	56.3	110.0	195.0

* LIMIT MAX. LOADS TO 171.0 PSF
WHEN MULTI POINT LOCK BY "INETRLOCK" (98)
IS USED

** SIZE 37" X 77" APPLICABLE TO FLANGE FRAMES ONLY
SEE SHEET 1

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

NOTE:
LOAD/AREA LIMITS
FOR +110.0, -120.0 PSF = 16.34 SQ. FT.
+110.0, -195.0 PSF = 10.00 SQ. FT.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70582
CAN. 3538
MAY 04 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.19
Expiration Date 02.26.2018
By: *Manuel Ortiz*
Miami Dade Product Control

afC

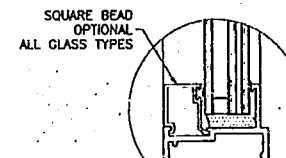
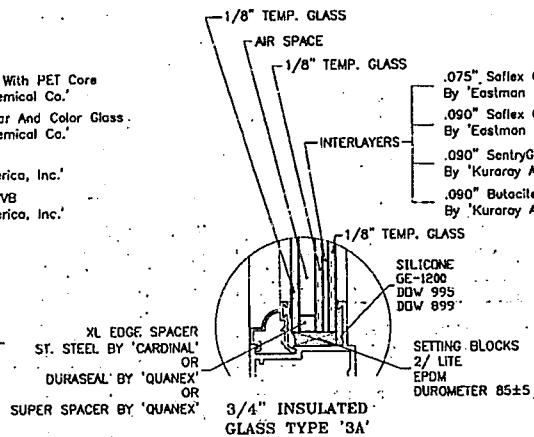
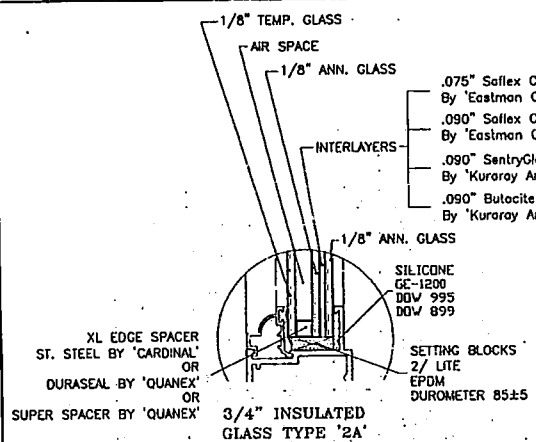
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
3235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-8978
COMP-ANL W98-100CGI

CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

REVISIONS:

NO.	DATE	BY	DESCRIPTION
1	02.21.12	F	UPDATED TO 2010 FBC
2	12.06.12	C	LOCK OPTION ADDED
3	02.28.13	H	REV PER REV COMMENTS
4	04.23.14	J	GENERAL REVISION
5	04.12.15	J	INTERLAYER REV.

date: 12-04-98
scale: 1/2" = 1"
dr. by: JAWAD
chk. by:
drawing no. **W98-100**
sheet 3 of 7



PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.	GLASS TYPE '2A'	GLASS TYPE '3A'	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
20"	110.0	194.3	110.0	195.0		
24"	110.0	161.9	110.0	195.0		
28"	110.0	138.8	110.0	195.0		
30"	110.0	129.5	110.0	195.0		
32"	110.0	121.4	110.0	195.0		
36"	107.9	107.9	110.0	195.0		
40"	97.1	97.1	110.0	120.0		
42"	92.5	92.5	110.0	120.0		
20"	110.0	166.5	110.0	195.0		
24"	110.0	138.8	110.0	195.0		
28"	110.0	118.9	110.0	195.0		
30"	110.0	111.0	110.0	195.0		
32"	104.1	104.1	110.0	120.0		
36"	92.5	92.5	110.0	120.0		
40"	83.3	83.3	110.0	120.0		
42"	79.3	79.3	110.0	120.0		
20"	110.0	145.7	110.0	195.0		
24"	110.0	121.4	110.0	195.0		
28"	104.1	104.1	110.0	120.0		
30"	97.1	97.1	110.0	120.0		
32"	91.1	91.1	110.0	120.0		
36"	80.9	80.9	110.0	120.0		
40"	72.8	72.8	110.0	120.0		
42"	69.4	69.4	110.0	120.0		
20"	110.0	129.5	110.0	195.0		
24"	98.0	107.9	110.0	195.0		
28"	92.5	92.5	110.0	120.0		
30"	84.4	86.3	110.0	120.0		
32"	80.9	80.9	110.0	120.0		
36"	71.9	71.9	110.0	120.0		
40"	64.8	64.8	110.0	120.0		
42"	61.7	61.7	110.0	120.0		

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.	GLASS TYPE '2A'	GLASS TYPE '3A'	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
20"	98.8	112.6	110.0	195.0		
24"	85.8	95.4	110.0	120.0		
28"	76.7	83.3	110.0	120.0		
30"	73.2	77.7	110.0	120.0		
32"	70.2	72.8	110.0	120.0		
36"	64.8	64.8	110.0	120.0		
40"	60.0	60.0	—	—		
42"	60.0	60.0	—	—		
20"	86.7	86.7	110.0	169.0		
24"	73.4	73.4	110.0	120.0		
28"	64.2	64.2	110.0	120.0		
30"	60.6	60.6	110.0	118.2		
32"	57.5	57.5	110.0	112.2		
36"	60.0	60.0	—	—		
40"	60.0	60.0	—	—		
20"	66.4	66.4	110.0	120.0		
24"	56.1	56.1	109.3	109.3		
28"	48.9	48.9	95.3	95.3		
30"	46.0	46.0	89.8	89.8		
32"	43.6	43.6	85.0	85.0		
36"	60.0	60.0	—	—		
32"	60.0	60.0	—	—		
36"	60.0	60.0	—	—		
20"	52.0	52.0	101.3	101.3		
24"	43.8	43.8	85.4	85.4		
28"	38.1	38.1	74.3	74.3		
32"	60.0	60.0	—	—		
20"	41.5	41.5	60.8	60.8		
24"	34.9	34.9	68.0	68.0		
28"	54.5	54.5	—	—		
30"	51.2	51.2	—	—		
32"	48.3	48.3	—	—		

PERFORMANCE VALUES OF IMPACT RESISTANT WINDOWS
NO SHUTTERS REQUIRED
REFER TO SHEETS 5 THRU 7 FOR INSTALLATION DETAILS

WINDOW DIMS.	GLASS TYPE '2A'	GLASS TYPE '3A'	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
19-1/8"	110.0	195.0	110.0	195.0		
26-1/2"	110.0	203.0	110.0	195.0		
37"	110.0	145.4	110.0	195.0		
42"	110.0	128.1	110.0	195.0		
19-1/8"	110.0	190.5	110.0	195.0		
26-1/2"	110.0	137.5	110.0	195.0		
37"	98.5	98.5	110.0	120.0		
42"	86.8	86.8	110.0	120.0		
19-1/8"	110.0	144.5	110.0	195.0		
26-1/2"	99.7	104.3	110.0	195.0		
37"	74.7	74.7	110.0	120.0		
42"	65.8	65.8	110.0	120.0		
19-1/8"	96.7	104.2	110.0	195.0		
26-1/2"	74.9	77.9	110.0	120.0		
37"	60.0	60.0	110.0	117.0		
42"	60.0	60.0	—	—		
19-1/8"	83.0	83.0	110.0	120.0		
26-1/2"	46.6	46.6	90.9	90.9		
37"	59.8	59.8	—	—		
37"	56.3	56.3	—	—		

* LIMIT MAX. LOADS TO 171.0 PSF
WHEN MULTI POINT LOCK BY 'INERLOCK' (B)
IS USED

** SIZE 37" X 77" APPLICABLE TO FLANGE FRAMES ONLY
SEE SHEET 1

NOTE:
LOAD/AREA LIMITS
FOR +110.0, -120.0 PSF = 16.34 SQ. FT.
+110.0, -195.0 PSF = 10.00 SQ. FT.

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

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70582
CAN. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.19
Expiration Date 03/26/2018
By *Mamuel J. [Signature]*
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-8978
COMP-ANL\W98-100CGI

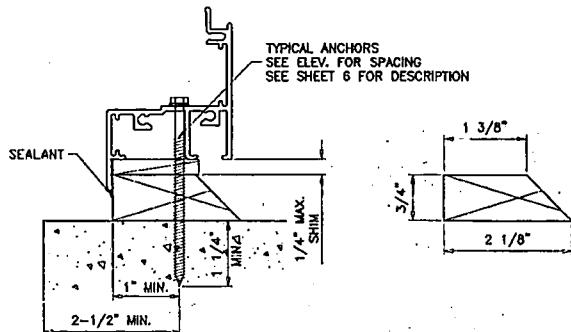
SERIES-238 ALUM. OUTSWING CASMENT WDW. (L.H.L.)
CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

REVISIONS:
NO. DATE BY DESCRIPTION
1 12/23/12 J. AHMAD LOCK OPTION ADDED
2 12/28/12 J. AHMAD REV. PER COMMENTS
3 02/28/13 J. AHMAD REV. PER COMMENTS
4 04/23/14 J. AHMAD REV. PER COMMENTS
5 04/23/14 J. AHMAD REV. PER COMMENTS
6 04/23/14 J. AHMAD REV. PER COMMENTS
7 04/23/14 J. AHMAD REV. PER COMMENTS
8 04/23/14 J. AHMAD REV. PER COMMENTS
9 04/23/14 J. AHMAD REV. PER COMMENTS
10 04/23/14 J. AHMAD REV. PER COMMENTS
11 04/23/14 J. AHMAD REV. PER COMMENTS
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86 04/23/14 J. AHMAD REV. PER COMMENTS
87 04/23/14 J. AHMAD REV. PER COMMENTS
88 04/23/14 J. AHMAD REV. PER COMMENTS
89 04/23/14 J. AHMAD REV. PER COMMENTS
90 04/23/14 J. AHMAD REV. PER COMMENTS
91 04/23/14 J. AHMAD REV. PER COMMENTS
92 04/23/14 J. AHMAD REV. PER COMMENTS
93 04/23/14 J. AHMAD REV. PER COMMENTS
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96 04/23/14 J. AHMAD REV. PER COMMENTS
97 04/23/14 J. AHMAD REV. PER COMMENTS
98 04/23/14 J. AHMAD REV. PER COMMENTS
99 04/23/14 J. AHMAD REV. PER COMMENTS
100 04/23/14 J. AHMAD REV. PER COMMENTS

drawing no.
W98-100
sheet 4 of 7

INSTALLATION CONDITIONS FLANGE FRAME (APPLIES TO ALL FOUR SIDES)

FOR ANCHOR PERFORMANCE VALUES SEE SHEET 6

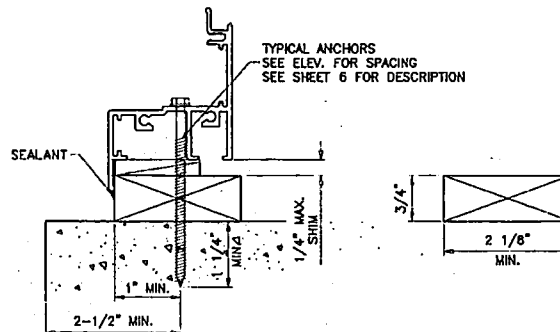


INSTALLATION TYPE '1'

WOOD BUCK TYPE '1'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

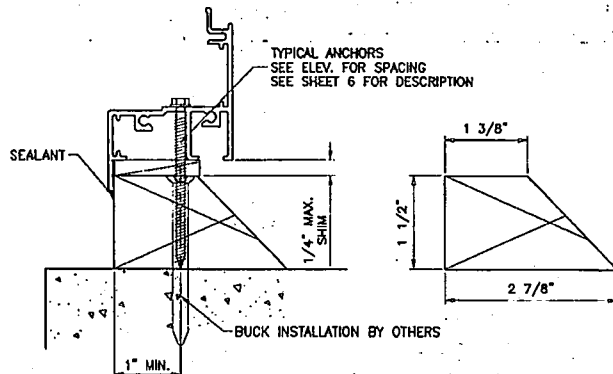


INSTALLATION TYPE '2'

WOOD BUCK TYPE '2'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

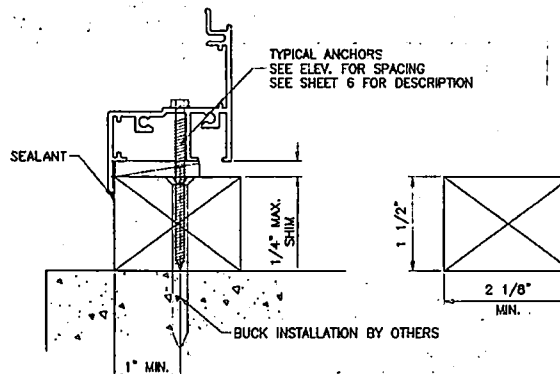


INSTALLATION TYPE '3'

WOOD BUCK TYPE '3'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

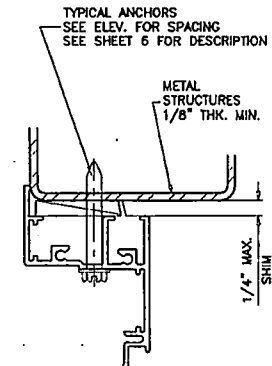


INSTALLATION TYPE '4'

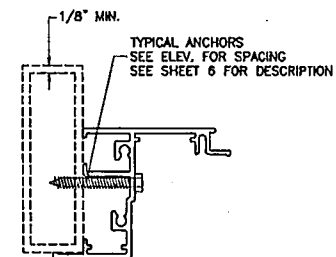
WOOD BUCK TYPE '4'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

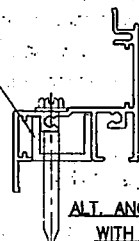


ATTACHMENT TO
METAL STRUCTURES



ATTACHMENT TO
APPROVED MULLIONS

ALUM CHANNEL
3/4" X 1" X 3/4" X 1/8"
2-1/2" LONG
AT ANCHOR LOCATIONS



ALT. ANCHOR LOCATION
WITH SHEAR CLIP

WOOD BUCKS NOT BY CGI CORP., MUST SUSTAIN
LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER
THEM TO THE BUILDING STRUCTURE.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0512.19
Expiration Date OCT 20, 2018
By *Manuel P...*
Miami Dade Product Control

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-4300 FAX (305) 266-6978
COMP-ANL W98-10000

SERIES-238 ALUM OUTSWING CASSETT WIND. (L.M.I.)
CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

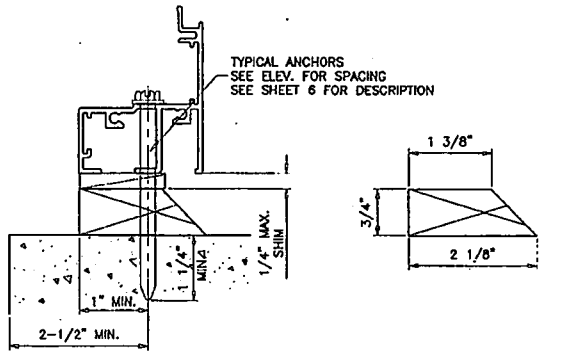
REVISIONS:	NO	DATE	DESCRIPTION
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	2	12.06.12	NO CHANGE THIS SHEET
	3	02.28.13	REV. PER REP COMMENTS
	4	04.23.14	NO CHANGE THIS SHEET
	5	04.10.15	NO CHANGE THIS SHEET

series: 12-04-98
scale: 1/2" = 1"
dr. by: HAND
chk. by:

drawing no.
W98-100
sheet 5 of 7

INSTALLATION CONDITIONS EQUAL LEG FRAME (APPLIES TO ALL FOUR SIDES)

FOR ANCHOR PERFORMANCE VALUES SEE SHEET 6

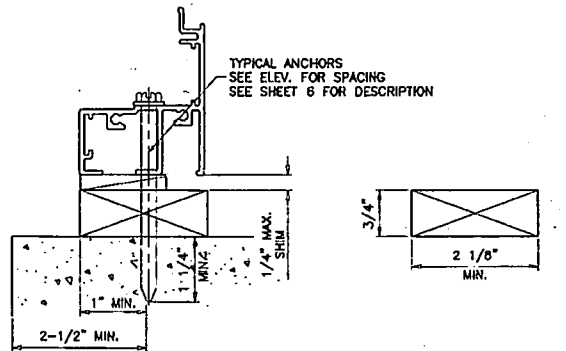


INSTALLATION TYPE '1'

WOOD BUCK TYPE '1'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

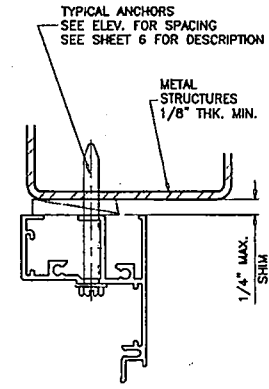


INSTALLATION TYPE '2'

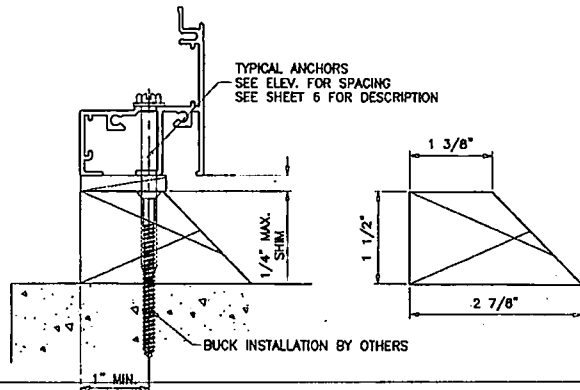
WOOD BUCK TYPE '2'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



ATTACHMENT TO
METAL STRUCTURES

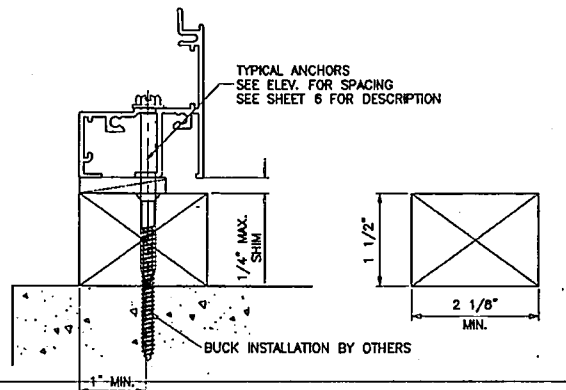


INSTALLATION TYPE '3'

WOOD BUCK TYPE '3'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD

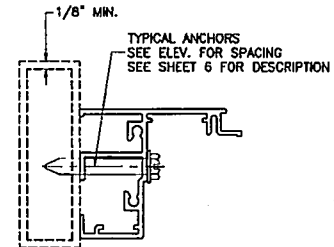


INSTALLATION TYPE '4'

WOOD BUCK TYPE '4'

MATERIAL: PRESSURE TREATED

TYPICAL INSTALLATION DETAIL
ON ALL FOUR SIDES/USING WOOD



ATTACHMENT TO
APPROVED MULLIONS

WOOD BUCKS NOT BY CGI CORP., MUST SUSTAIN
LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER
THEM TO THE BUILDING STRUCTURE.

ST-03-11

ST-03-11

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

MAY 10 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.19
Expiration Date 05-10-2018

By: *Manuel Serrano*
Miami Dade Product Control

af c
AL-FAROOG CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8300 FAX. (305) 262-6978
COMP-ANL-W98-100CG

SERIES-238 ALUM. OUTSWING CASEMENT WDW. (L.M.I.)
CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 583-6590 FAX. (305) 593-4592

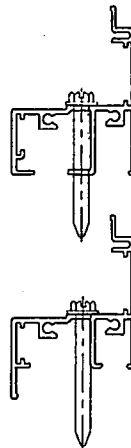
NO.	DATE	DESCRIPTION
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2	12.06.12	NO CHANGE THIS SHEET
3	12.08.13	REV. PER PER COMMENTS
4	04.23.14	NO CHANGE THIS SHEET
5	04.10.15	NO CHANGE THIS SHEET

Series: 12-01-98
Scale: 1/2" = 1"
Dr. by: *MANU*
CHK. by:

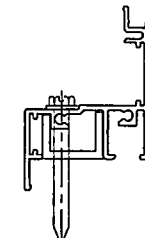
drawing no.
W98-100
Sheet 5.1 of 7

PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 5 FOR DETAILS					
WINDOW DIMS.		ANCHORS W/O SHEAR CLIP		ANCHORS WITH SHEAR CLIP	
WIDTH	HEIGHT	AT 17" O.C.	AT 10" O.C.	AT 17" O.C.	AT 10" O.C.
EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
20"	36"	195.0	195.0	154.8	195.0
24"		195.0	195.0	129.0	172.0
28"		192.9	195.0	110.6	147.4
30"		180.0	195.0	103.2	137.6
32"		168.8	195.0	96.8	129.0
36"		150.0	195.0	86.0	114.7
40"	42"	135.0	180.0	77.4	103.2
42"		128.6	171.4	73.7	98.3
20"		195.0	195.0	132.7	176.9
24"		192.9	195.0	110.6	147.4
28"		165.3	195.0	94.8	126.4
30"		154.3	195.0	88.5	117.9
32"	48"	144.6	192.9	82.9	110.6
36"		128.6	171.4	73.7	98.3
40"		115.7	154.3	68.3	88.5
42"		110.2	148.9	63.2	84.2
20"		195.0	195.0	154.8	193.5
24"		195.0	195.0	129.0	161.3
28"	54"	192.9	195.0	110.6	138.2
30"		180.0	195.0	103.2	129.0
32"		168.8	195.0	96.8	120.9
36"		150.0	187.5	86.0	107.5
40"		135.0	168.8	77.4	96.8
42"		128.6	160.7	73.7	92.1
20"	60"	195.0	195.0	137.6	195.0
24"		195.0	195.0	114.7	172.0
28"		171.4	195.0	98.3	147.4
30"		160.0	195.0	91.7	137.6
32"		150.0	195.0	86.0	129.0
36"		133.3	195.0	76.4	114.7
40"	66"	120.0	180.0	68.8	103.2
42"		114.3	171.4	65.5	98.3
20"		195.0	195.0	123.8	185.8
24"		180.0	195.0	103.2	154.8
28"		154.3	195.0	88.5	132.7
30"		144.0	195.0	82.6	123.8
32"	72"	135.0	195.0	77.4	116.1
36"		120.0	180.0	68.8	103.2
40"		106.0	162.0	61.9	92.9
42"		102.9	154.3	59.0	88.5
20"		195.0	195.0	140.7	195.0
24"		195.0	195.0	117.3	164.2
28"	76"	175.3	195.0	100.5	140.7
30"		163.6	195.0	93.8	131.3
32"		153.4	195.0	88.0	123.1
36"		136.4	190.9	78.2	109.5
40"		122.7	171.8	70.4	98.5
42"		119.0	160.7	67.1	94.8
20"	84"	195.0	195.0	129.0	180.6
24"		187.5	195.0	107.5	150.5
28"		160.7	195.0	92.1	129.0
30"		150.0	195.0	86.0	120.4
32"		140.6	185.0	80.6	112.9
36"		125.0	175.0	71.7	100.3

PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 5 FOR DETAILS					
WINDOW DIMS.		ANCHORS W/O SHEAR CLIP		ANCHORS WITH SHEAR CLIP	
WIDTH	HEIGHT	AT 17" O.C.	AT 10" O.C.	AT 17" O.C.	AT 10" O.C.
EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
32"	76"	133.2	195.0	76.4	122.2
36"		118.4	189.5	67.9	108.6
20"	78"	195.0	195.0	119.1	190.5
24"		173.1	195.0	99.2	158.8
28"		148.4	195.0	85.1	136.1
30"		138.5	195.0	79.4	127.0
32"		129.8	195.0	74.4	119.1
20"		195.0	195.0	132.7	195.0
24"	84"	195.0	195.0	110.6	165.9
28"		165.3	195.0	94.8	142.2
32"		154.3	195.0	88.5	132.7



ANCHORS W/O SHEAR CLIP



ANCHORS WITH SHEAR CLIP

PERFORMANCE VALUES OF INSTALLATION ANCHORS REFER TO SHEET 5 FOR DETAILS					
WINDOW DIMS.		ANCHORS W/O SHEAR CLIP		ANCHORS WITH SHEAR CLIP	
WIDTH	HEIGHT	AT 17" O.C.	AT 10" O.C.	AT 17" O.C.	AT 10" O.C.
EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)	EXT.(+)/INT.(-)
19-1/8"	26"	195.0	195.0	149.4	195.0
26-1/2"		195.0	195.0	107.8	161.8
37"		195.0	195.0	77.2	115.9
19-1/8"	38-3/8"	195.0	195.0	151.9	195.0
26-1/2"		191.2	195.0	109.6	146.1
37"		136.9	182.6	78.5	104.7
19-1/8"	50-5/8"	195.0	195.0	153.5	191.9
26-1/2"		193.2	195.0	110.8	138.5
37"		138.4	173.0	79.3	99.2
19-1/8"	63"	195.0	195.0	123.3	195.0
26-1/2"		155.3	195.0	89.0	155.8
37"		111.2	194.6	63.8	111.6
42"	74-1/4"	98.0	171.4	56.2	98.3
19-1/8"		195.0	195.0	130.8	195.0
26-1/2"		164.7	195.0	94.4	151.1
37"		117.9	188.6	67.6	108.1

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. KWIK-CON II BY 'HILTI' (Fu=163 KSI, Fy=157 KSI)

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

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")
INTO METAL STRUCTURES

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.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

MAY 04 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-0512 19
Expiration Date 03/16/2018

By: *[Signature]*
Miami-Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL: (305) 264-8100 FAX: (305) 262-6978
COMP-ANL W98-10000

SERIES-238 ALUM. OUTSWING CASEMENT WOK. (LAL)
CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL: (305) 593-6590 FAX: (305) 593-6592

NO.	DATE	DESCRIPTION
1	02/21/12	NO CHANGE THIS SHEET
2	01/20/12	CHART REV.
3	10/23/13	REV. PER PER COMMENTS
4	04/23/14	SEVERAL REVISION
5	04/10/15	NO CHANGE THIS SHEET

date: 12-04-98
scale: 1/2" = 1"
dr. by: HAUID
chk. by:
drawing no.
W98-100
sheet 6 of 7

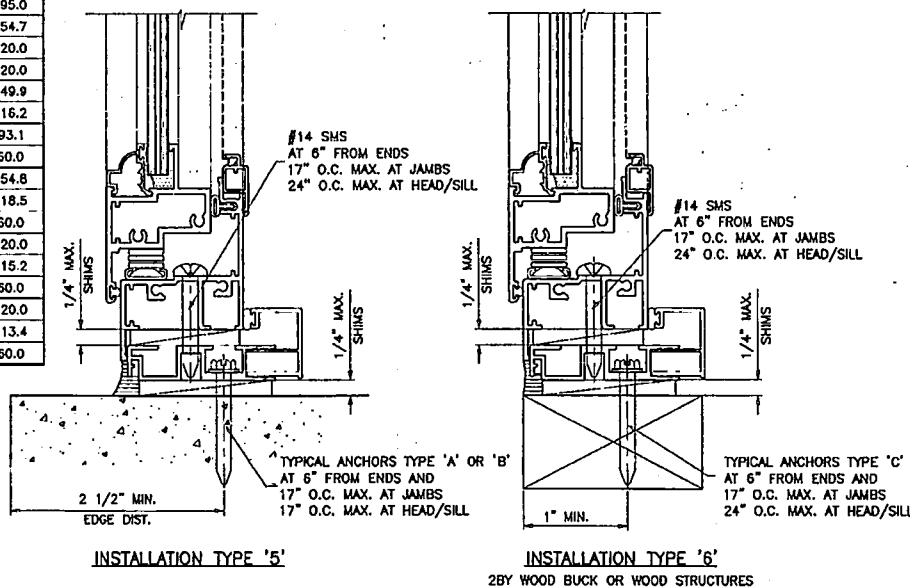
PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS			
WINDOW DIMS.			
WIDTH	HEIGHT	EXT.(+)	INT.(-)
20"	36"	110.0	195.0
24"		110.0	195.0
28"		110.0	186.5
30"		110.0	182.4
32"		110.0	179.5
36"		110.0	177.3
40"	42"	105.8	145.1
42"		97.0	120.0
20"		110.0	179.5
24"		110.0	159.6
28"		106.9	146.6
30"		103.5	141.9
32"		100.7	138.1
36"		97.0	120.0
40"		95.2	120.0
42"		95.0	120.0
20"	48"	110.0	195.0
24"		110.0	177.3
28"		110.0	160.9
30"		110.0	154.8
32"		109.1	120.0
36"		103.5	120.0
40"	54"	99.8	120.0
42"		95.0	120.0
20"		110.0	174.1
24"		110.0	152.0
28"		99.8	120.0
30"		95.5	120.0
32"	60"	91.9	120.0
36"		86.2	118.2
40"		82.2	112.7
42"		80.6	110.5
20"		110.0	153.2
24"		97.0	133.0
28"	66"	86.8	119.0
30"		82.8	113.5
32"		79.4	108.8
36"		73.9	101.3
40"		60.0	60.0
42"		60.0	60.0
20"	72"	110.0	171.0
24"		107.8	120.0
28"		95.9	120.0
30"		91.3	120.0
32"		87.3	119.7
36"		60.0	60.0
40"		60.0	60.0
20"		110.0	154.5
24"		97.0	120.0
28"		86.0	117.9
30"		81.7	112.0
32"		77.9	105.9
36"		60.0	60.0

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS			
WINDOW DIMS.			
WIDTH	HEIGHT	EXT.(+)	INT.(-)
20"	76"	105.8	120.0
24"		90.9	120.0
28"		80.5	110.3
30"		76.3	104.7
32"		60.0	60.0
36"		60.0	60.0
20"	78"	102.7	120.0
24"		88.2	120.0
28"		77.9	120.0
30"		73.9	101.3
32"		60.0	60.0
36"		60.0	60.0
20"	84"	110.0	120.0
24"		97.0	120.0
28"		85.5	117.3
30"		60.0	60.0
32"		60.0	60.0
36"		60.0	60.0

PERFORMANCE VALUES OF ALUMINUM BUCK INSTALLATION ANCHORS			
WINDOW DIMS.			
WIDTH	HEIGHT	EXT.(+)	INT.(-)
19-1/8"	26"	110.0	195.0
26-1/2"		110.0	185.0
37"		110.0	184.2
42"		110.0	152.4
19-1/8"	38-3/8"	110.0	195.0
26-1/2"		110.0	172.6
37"		110.0	156.3
42"		95.7	120.0
19-1/8"	50-5/8"	110.0	195.0
26-1/2"		110.0	154.7
37"		94.0	120.0
42"		89.8	120.0
19-1/8"	63"	109.3	149.9
26-1/2"		84.8	116.2
37"		67.9	93.1
42"		60.0	60.0
19-1/8"	74-1/4"	110.0	154.8
26-1/2"		86.4	118.5
37"		60.0	60.0
42"		60.0	60.0
19-1/8"	76"	109.9	120.0
26-1/2"		84.0	115.2
37"		60.0	60.0
42"		60.0	60.0
19-1/8"	77"	108.3	120.0
26-1/2"		82.7	113.4
37"		60.0	60.0
42"		60.0	60.0

ALUMINUM BUCK FRAMING DETAILS

REFER TO SHEETS J THRU 6 FOR WINDOW CAPACITIES
USE LOWER APPLICABLE VALUES.



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

- A - 1/4" DIA. KWIK-CON II BY 'HILTI' (Fu=163 KSI, Fy=157 KSI)
DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

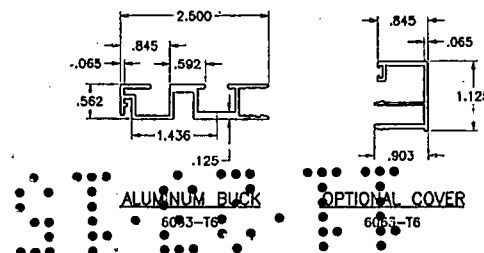
- B - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONC. OR FILLED BLOCK
1-1/4" MIN. EMBED INTO CONCRETE
2-1/4" MIN. EMBED INTO GROUT FILLED BLOCKS

- C - #14 SMS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

TYPICAL EDGE DISTANCE

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

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



Engr: JAVAD AHMAD
CML
FLA. PE # 70592
CAN. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0512.19
Expiration Date OCT 26, 2018

By: *Manuel Diaz*
Miami Dade Product Council

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
4235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W98-100CJ

SERIES-238 ALUM. OUTSWING CASSETTE WDW. (L.M.I.)
CGI WINDOWS & DOORS INC.
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

REV.	DATE	DESCRIPTION
1	02/21/12	NO CHANGE THIS SHEET
2	02/21/12	CHART REV.
3	02/21/12	REV. PER REF COMMENTS
4	04/25/14	GENERAL REVISION
5	04/10/15	NO CHANGE THIS SHEET

date: 12-04-98
scale: 1/2" = 1"
dr. by: HAVIO
chk. by:
drawing no.
W98-100
sheet 7 of 7

31600909

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

NOTICE OF ACCEPTANCE (NOA)

CGI WINDOWS AND DOORS, INC.

10100 NW 25 Street

Miami, FL 33172

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 "Sentinel 150" Aluminum Sliding Glass Door w/wo Reinforcements - L 1119

APPROVAL DOCUMENT: Drawing No. W10-31 Rev K, titled Series "150 Sentinel Aluminum Sliding Glass Door", sheets 1 through 16 of 16 (inclusive sheets 1.1, 6.1, 6.2, 9.1, 11.1, 12.1, 12.2 and 15.1, prepared by AP-Farooq Corporation, dated 05/20/10 and last revised on FEB 25, 2015, signed and sealed by Javad Ahmad, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Revision date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitations:

1. Pocket wall is not part of this approval and to be reviewed by AHJ.
2. See Design Pressure (DP) table: Sizes Vs glass types, Interlock reinforcing & sill riser and the max allowable panels with in the unit frame area, in sheet 7. See anchor clusters DP capacity in sheet 8. Lower capacity shall controls for the entire assembly.
3. Max shim not to exceed 1/2" at Head/jamb & 1/2" at Sill (w/ High strength poured & hardened grout). The Sill to be installed w/ anchor type B-2, directly into conc.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", 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 & renews NOA # 13-1121.06 and 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.



NOA No. 14-0627.15
Expiration Date: September 22, 2020
Approval Date: March 05, 2015

CGI WINDOWS AND DOORS, INC.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. W10-31 Rev K, titled Series "150 Sentinel Aluminum Sliding Glass Door", sheets 1 through 16 of 16 (inclusive sheets 1.1, 6.1, 6.2, 9.1, 11.1, 12.1, 12.2 and 15.1, prepared by Al-Farooq Corporation, dated 05/20/10 and last revised on FEB 25, 2015, signed and sealed and 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) 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 6-panels Alum SGD w/ Pockets & OXXX, prepared by Certified Testing Laboratories, Test Report No. CTLA -3011-W & -W-1, dated May 22 & 23, 2014 respectively, both signed and sealed by Ramesh Patel, P. E.

(Note this test reports have been revised by an addendum letter dated SEP 24, 2014, issued by Certified Testing lab.)

2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of Alum SGD, prepared by Hurricane test Laboratory, LLC, Test Report No. HTL-0080-1208-090, dated July 30, 2010, signed and sealed by Vinu J. Abraham, P. E. (submitted under files #12-0119.04/11-1031.05)

along with marked-up drawings and installation diagram of Alum. SGD (OX) prepared by Architectural Testing, Inc., Test Report No. ATI-C0733.03-450-18, dated 08/09/12, signed and sealed by Vinu J. Abraham, P. E. (submitted under files #13-1121.08 /#12-0821.16)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2014, prepared by Al Farooq Corporation, dated 06/26/14, 11/18/14 and last revised on FEB 17, 2015; signed and sealed by Javad Ahmad, P.E.
2. Glazing complies w/ ASTM E-1300-02 -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. 14-0627.15

Expiration Date: September 22, 2020

Approval Date: March 05, 2015

CGI WINDOWS AND DOORS, INC.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. 11-0624.02 issued to E.I. DuPont DeNemours, Inc. for the "DuPont Sentry Glass® Interlayer", expiring on 01/14/17.
2. Notice of Acceptance No. 1231.08 issued Eastman Chemical Company (MA) former Solutia Inc. for their "Saflex CP-Saflex and Saflex HP Composites Interlayer w/ PET core", expiring on 12/11/18.
3. Notice of Acceptance No. 12-1213.02 issued Eastman Chemical Company (MA) former Solutia Inc. for "Saflex Clear or colored glass interlayer", expiring on 05/21/16.

F. STATEMENTS

1. Statement letter dated 06/03/14, compliance to FBC2014 (5th edition) and No financial interest, prepared by Al Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Addendum letter dated SEP 24, 2014, issued by Certified Testing lab, signed and sealed by Ramesh Patel, P. E.
3. Lab Compliance statement, part of above referenced test report.

G. OTHER

1. This NOA revises & renews NOA # 13-1121.06, expiring on Sep. 22, 2015.
2. Test proposals # 13-1098, approved on Oct 02, 2013 and revised on FEB 24, 2014, signed by Manuel Perez, P.E., test proposal # 11-1225 dated DEC 16, 2011 signed by Jaime D. Gascon, P.E. Test proposal # 09-1073, approved on Nov. 05, 2009 and E-mail test proposal dated 07-19-2010, approved by BCCO.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 14-0627.15

Expiration Date: September 22, 2020

Approval Date: March 05, 2015

AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL. (305) 264-8100 FAX. (305) 262-6978 COMP-ANL/W10-31CGI		SERIES SENTINEL 150 ALUM SLIDING GLASS DOOR (L.M.I.) CGI WINDOWS & DOORS 10100 N.W. 25TH STREET MIAMI, FL. 33172 TEL. (305) 593-6590 FAX. (305) 593-6592		REVISIONS: NO. DATE BY DESCRIPTION 1 05.09.14 GENERAL REVISION 2 07.16.14 NO CHANGE THIS SHEET 3 11.12.14 REV. PER NEW COMMENTS 4 02.03.15 REV. PER NEW COMMENTS		drawing no. W10-31 sheet 1 of 16 date: 05-20-10 scale: 1/2"=1'-0" dr. by: chg. by:	
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**LAMINATED GLASS AND
LAMINATED INSULATING GLASS
LARGE/SMALL MISSILE IMPACT**

Exp. JAVAD AHMAD
CIVIL
FLA. PE # 70592
CAN. 3538
FEB 25 2015

PRODUCT REVISED
as complying with the Florida
Building Code.
Acceptance No. 14-01-27-15
Expiration Date 03/22/2020
By: J. Ahmad
J. Ahmad Product Engineer

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLOC, HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM TABLES ON SHEET 7 FOR THE GLASS TYPE AND REINFORCING 10 #3.
- STEP 3** USING CHARTS ON SHEET 8 SELECT ANCHOR OPTION WITH DESIGNATING WIRE TIE DESIGN AND SPECIFIED IN STEP 1 ABOVE.
- STEP 4** THE LOWER VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

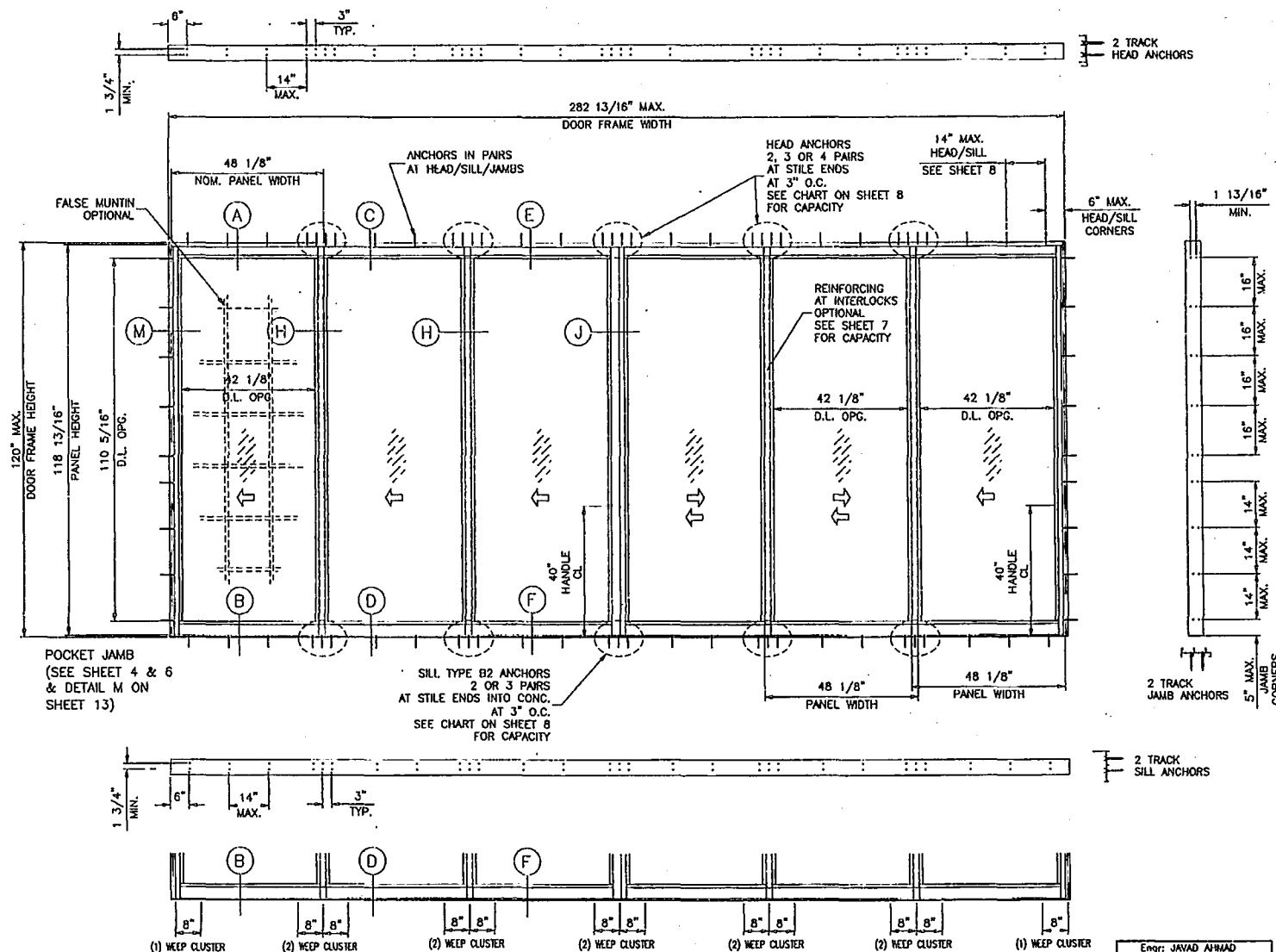
THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

SERIES SENTINEL 150 ALUMINUM SLIDING GLASS DOOR
DOORS ALLOWED FOR MAX. NUMBER OF PANELS AS LISTED ON DESIGN LOAD CAPACITY CHART ON SHEET 7 OF 16, USING MEETING STYLE COMBINATIONS TESTED AND SHOWN IN DRAWING DETAILS.

APPLICABLE EGRESS REQUIREMENTS PER FBC TO BE REVIEWED BY BUILDING OFFICIAL.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
1BY OR 2BY WOOD BUCKS BY OTHERS. MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLOC CODE.





TYPICAL ELEVATION
TESTED UNIT

D.L. OPENING
 D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9 11/16"
 D.L.O. WIDTH = NOM. PANEL WIDTH - 6"
 PANEL HEIGHT = DOOR FRAME HEIGHT - 1 3/16"

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3638

FEB 9 5 2015

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-6627-15
 Expiration Date 7/22/20
 By: *Shuaib Williams*
 Initial Date Product Control

af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL: (305) 264-9100 FAX: (305) 262-6878
 COMP-NL W10-3101

SERIES SENTINEL 150 ALUM SLIDING GLASS DOOR (LUL)
CGI WINDOWS & DOORS
 10100 N.W. 25TH STREET
 MIAMI, FL. 33172
 TEL: (305) 593-6590 FAX: (305) 593-6592

REVISIONS:	NO	DATE	BY	DESCRIPTION
	J	11.12.14		REV. PER REV COMMENTS
	K	12.03.15		REV. PER REV COMMENTS

sets: 05-20-10
 scale: 3/8"=1'-0"
 dr. by:
 chd. by:

drawing no.
W10-31

sheet 1 of 16

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-AN. W10-3100

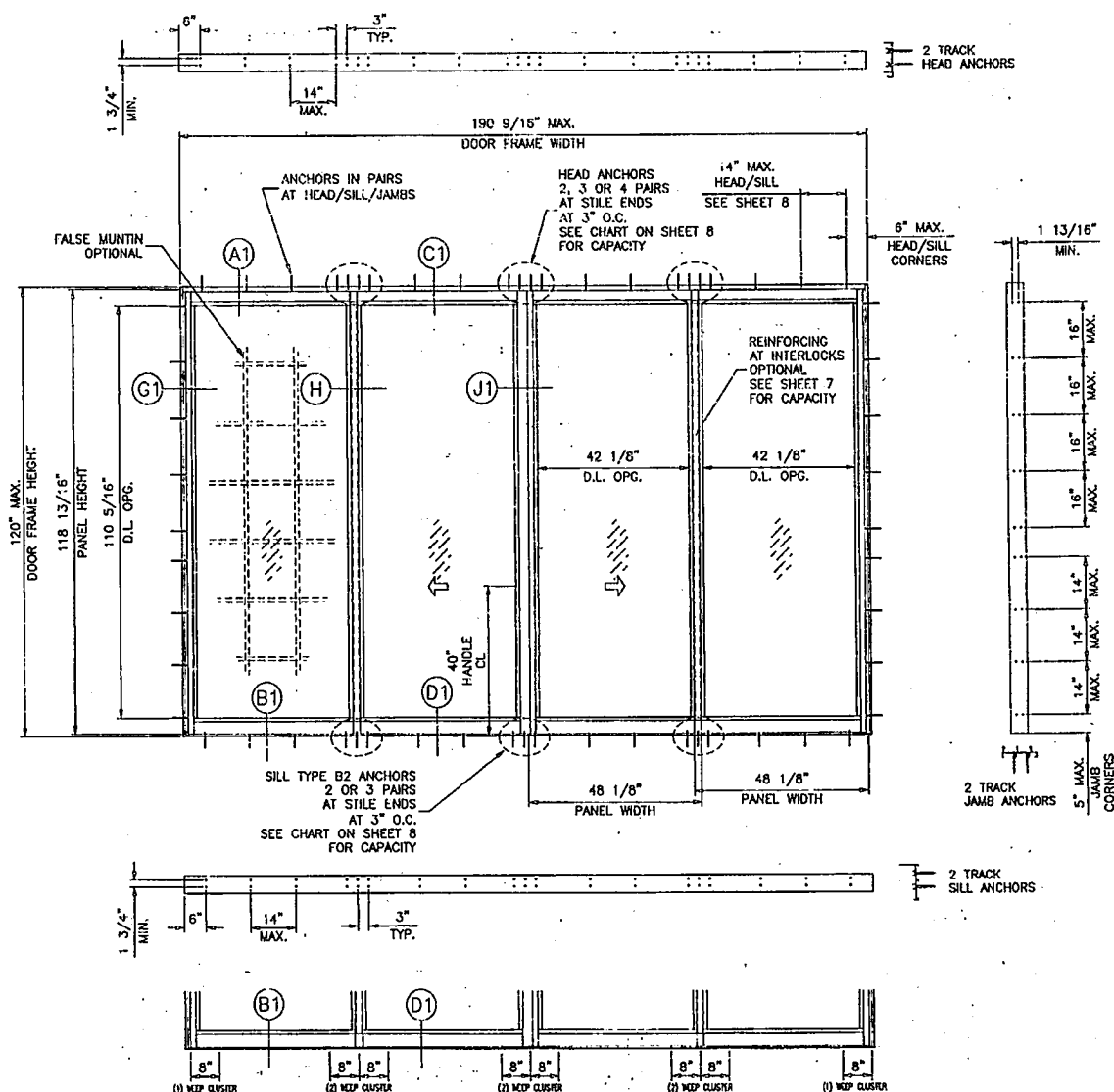
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

REVISIONS:

NO.	DATE	BY	DESCRIPTION
1	01.16.14	NO	NO CHANGE THIS SHEET
2	06.09.14	GENERAL	GENERAL REVISION
3	11.12.14	J	REV. PER REE COMMENTS
4	02.03.15	K	REV. PER REE COMMENTS

date: 05-20-10
scale: 3/8"=1'-0"
dr. by:
chk. by:

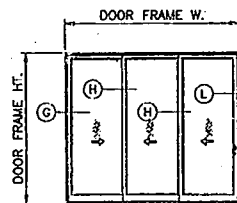
drawing no.
W10-31
sheet 2 of 16



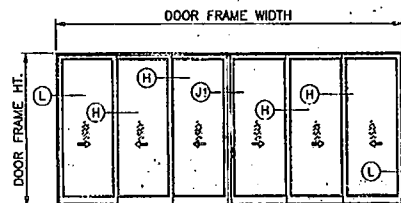
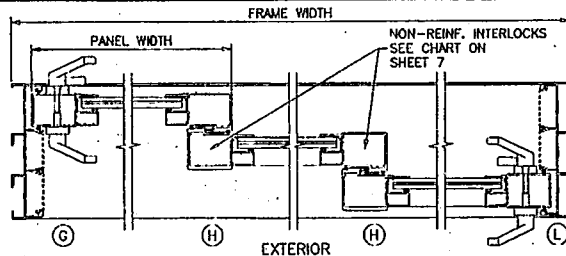
D.L. OPENING
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9 11/16"
D.L.O. WIDTH = NOM. PANEL WIDTH - 6"
PANEL HEIGHT = DOOR FRAME HEIGHT - 1 3/16"

Engr: JAVAD AHMAD
CIVIL
FLA. PE. # 70592
C.A.N. 3538
FEB 25 2015

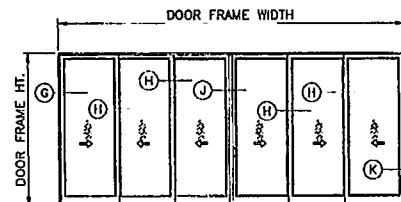
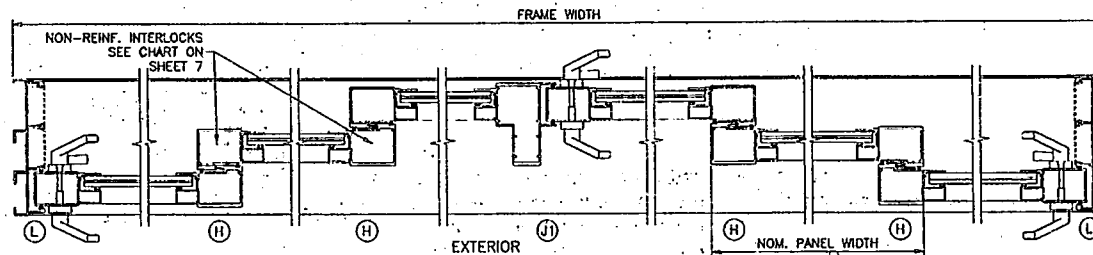
REFER TO PAGES 9, 9A, 11 & 11A FOR WEEP SIZE.



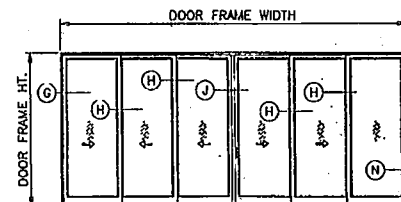
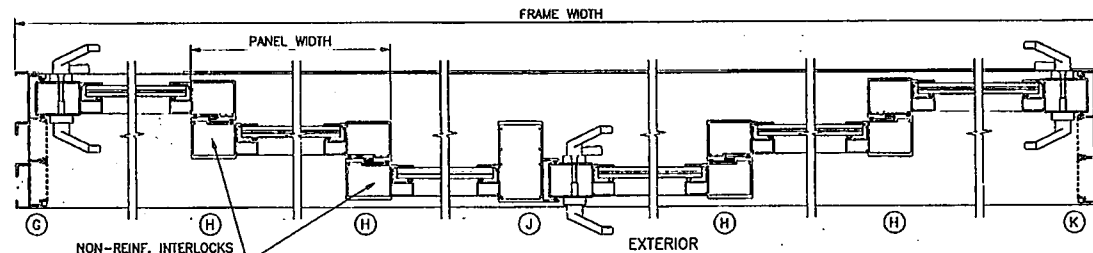
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OXX
XXO
XXX (REVERSE)



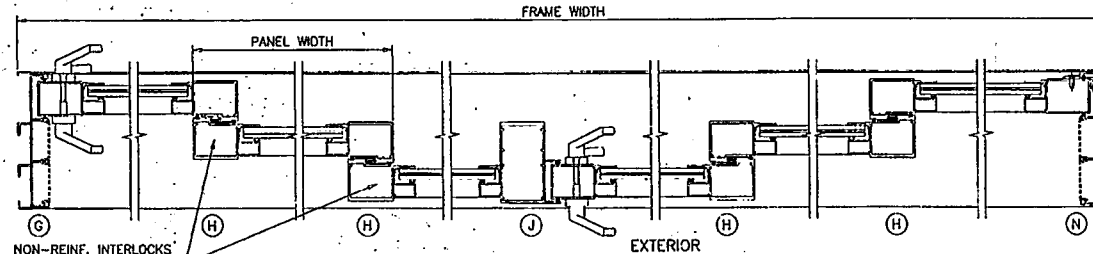
XXXXXX (SHOWN)
OXXXXO



XXXXXX (SHOWN)



XXXXXO (SHOWN)
OXXXXO



APPROVED CONFIGURATIONS

NON-POCKETED DOORS

(NON-REINFORCED SHOWN)

SEE SHEET 7 FOR DP AND REINFORCING OPTIONS

THREE (3) TRACKS

PRODUCT REVISED
to comply with the Florida
Building Code
Amendment No. 14-0627-11
Expiration Date 2/12/12
By Ishmael/Chavez
Miami Dade Product Control

NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE NON-REINFORCED OR REINFORCED DESIGN PRESSURES SEE SHEET 7.
3. FOR ANCHOR DETAILS SEE SHEETS 8 THRU 13.
4. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
CAN. 3538

FEB 25 2015

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W10-31CGI

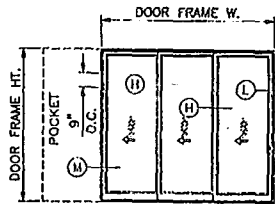
SERIES SPINEL 150 ALUM SLIDING GLASS DOOR (LUL)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

REVISIONS:	DATE	BY	DESCRIPTION
1	01/01/14	NO	NO CHANGE THIS SHEET
2	01/01/14	GENERAL	GENERAL REVISION
3	01/01/14	REV.	REV. PER REE COMMENTS
4	02/03/15	K	REV. PER REE COMMENTS

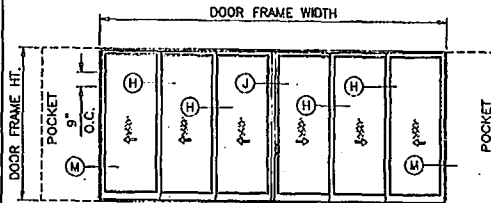
date:	05-20-10
author:	
chk. by:	
chk. by:	

drawing no.
W10-31

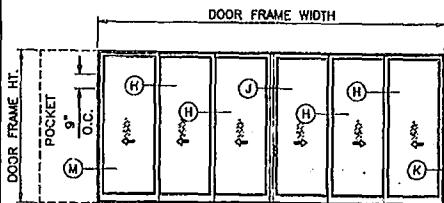
Sheet 3 of 16



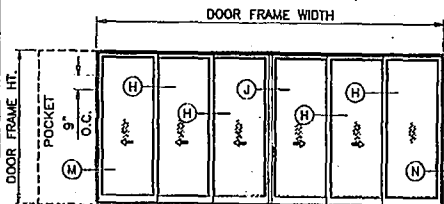
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PXXXXXP (SHOWN)



PXXXXX(SHOWN)
XXXXXXP



PXXXXXO(SHOWN)
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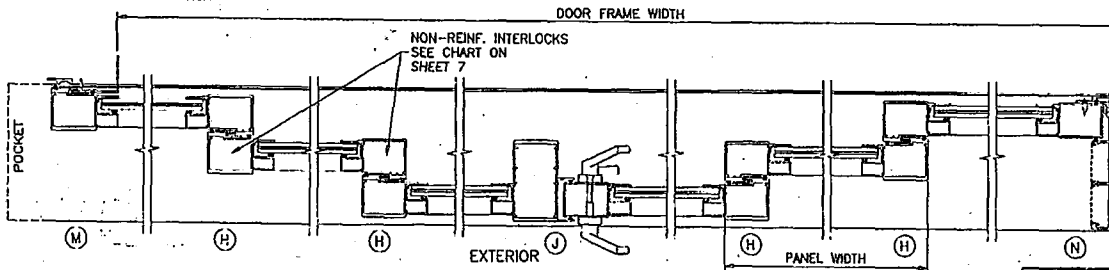
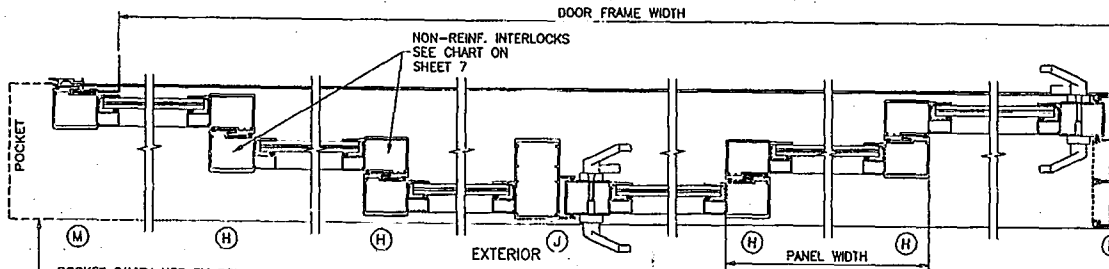
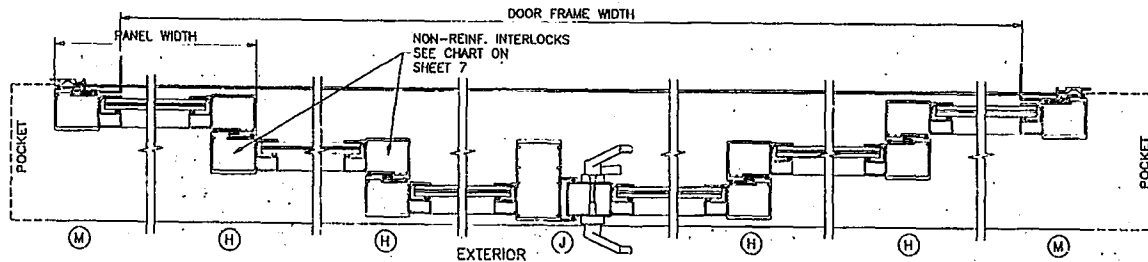
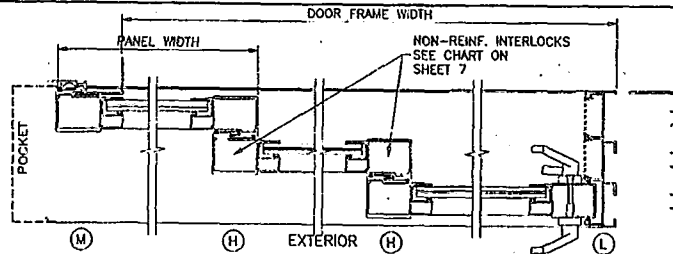
APPROVED CONFIGURATIONS

POCKETED DOORS (NON-REINFORCED SHOWN)

SEE SHEET 7 FOR DP AND REINFORCING OPTIONS

THREE (3) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL
AND TO BE REVIEWED BY AHJ.



PRODUCT REVISED
as complying with the Florida
Building Code
Amendment No. 14-0627-15
Expiration Date 9/20/20
By: [Signature]
Miami Trade Product Control

NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE NON REINFORCED OR REINFORCED DESIGN PRESSURES SEE SHEET 7.
3. FOR ANCHOR DETAILS SEE SHEETS 8 THRU 13.
4. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
CAN. 3538

FEB 25 2015

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W10-31CG

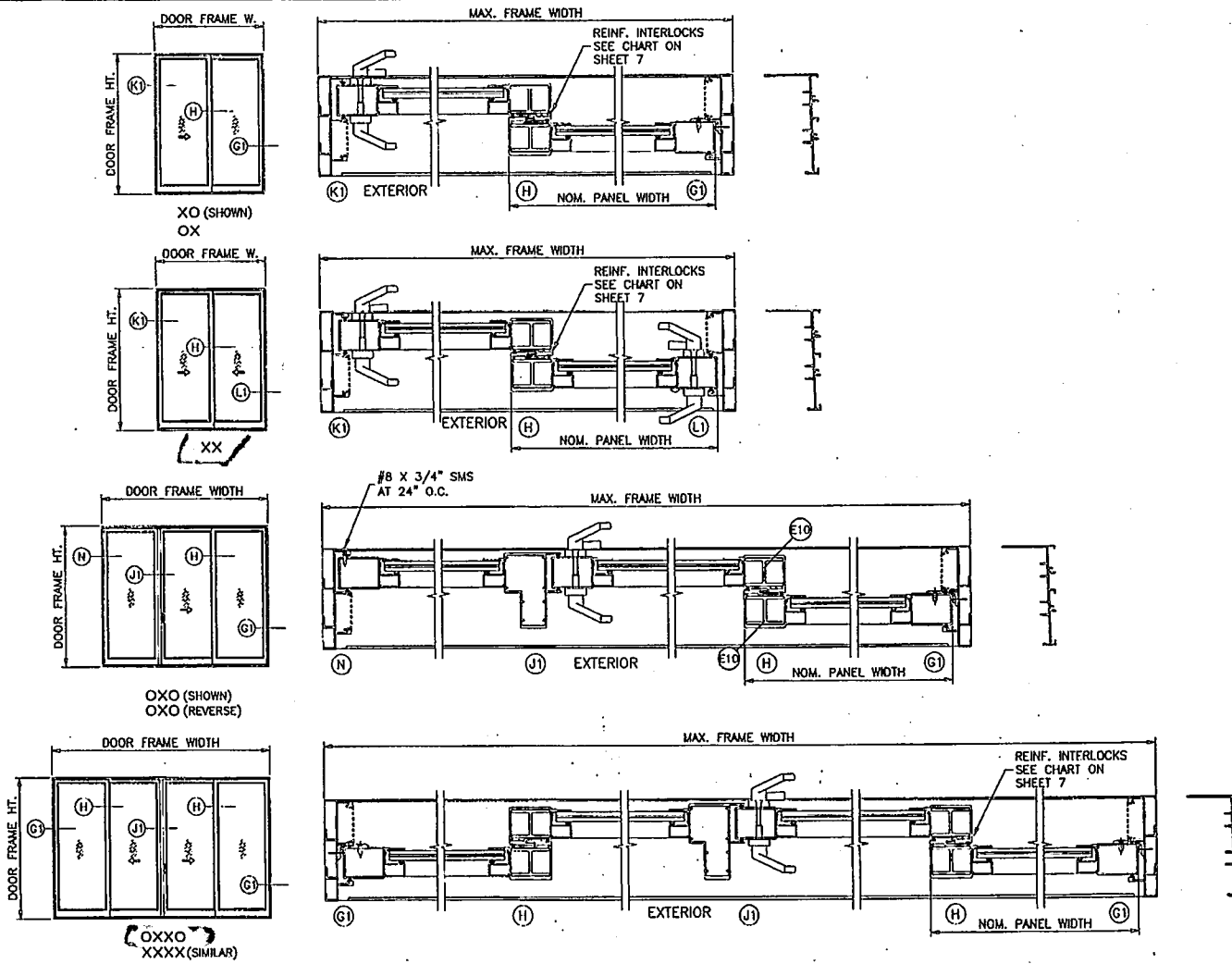
SERIES SENTINEL 150 ALUM SLIDING GLASS DOOR (LUL)

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

REV	DATE	BY	DESCRIPTION
H	01.16.14		NO CHANGE THIS SHEET
I	06.09.14		GENERAL REVISION
J	11.12.15		REV PER RFR COMMENTS
K	02.03.15		REV PER RFR COMMENTS

DATE: 05-20-10	SCALE:	DR: JAVAD	CHK: BY:
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drawing no.
W10-31
sheet 4 of 16



APPROVED CONFIGURATIONS
 NON-POCKETED DOORS (NON-REINFORCED SHOWN)
 SEE SHEET 7 FOR DP AND REINFORCING OPTIONS

TWO (2) TRACKS

- NOTE:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. FOR APPLICABLE NON REINFORCED OR REINFORCED DESIGN PRESSURES SEE SHEET 7.
 3. FOR ANCHOR DETAILS SEE SHEETS 8 THRU 13.
 4. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-0627-1
 Expiration Date 9/22/20
 By: *Michael J. Chan*
 Miami Dade Product Control

Engr: JAVAD AHMAD
 CML
 FLA. PE # 70592
 C.A.N. 3538

[Signature]
 FEB 25 2015

af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 12335 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-8400 FAX (305) 262-5978
 COMP-ANL W10-31(C)

SERIES SEMINEL 150 ALUM SLIDING GLASS DOOR (L.M.I.)
CGI WINDOWS & DOORS
 10100 N.W. 25TH STREET
 MIAMI, FL. 33172
 TEL (305) 593-6590 FAX (305) 593-6592

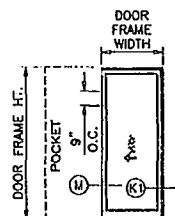
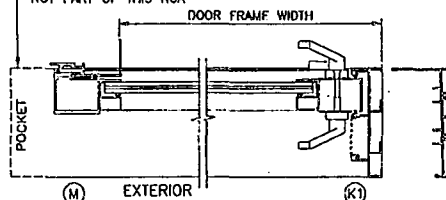
REVISIONS:	BY	DESCRIPTION
NO	GG16	NO CHANGE THIS SHEET
H	01.18.14	GENERAL REVISION
J	06.09.14	REV. PER PER COMMENTS
K	11.12.14	REV. PER PER COMMENTS
L	02.03.15	REV. PER PER COMMENTS

date: 05-20-10	scale: 1	dr. by:	chk. by:
drawing no. W10-31			
sheet 5 of 16			

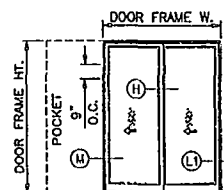
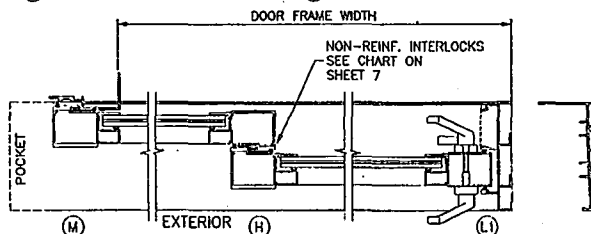
NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE NON REINFORCED OR REINFORCED DESIGN PRESSURES SEE SHEET 7.
3. FOR ANCHOR DETAILS SEE SHEETS 8 THRU 13.
4. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

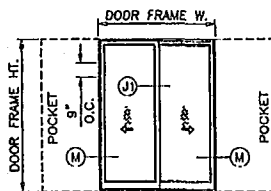
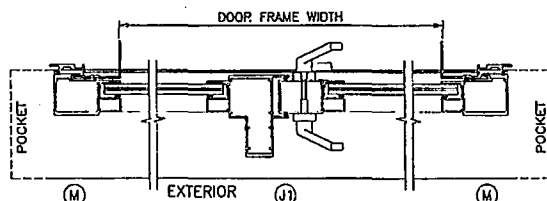
POCKET CAVITY NOT BY CGI
NOT PART OF THIS NOA



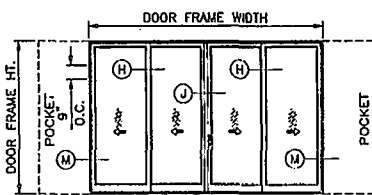
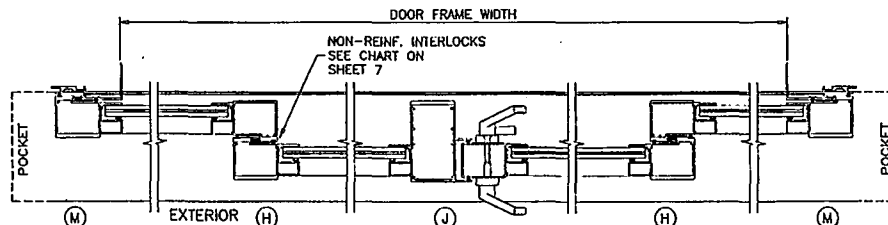
PX (SHOWN)
XP



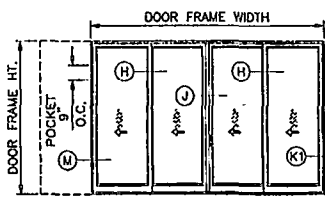
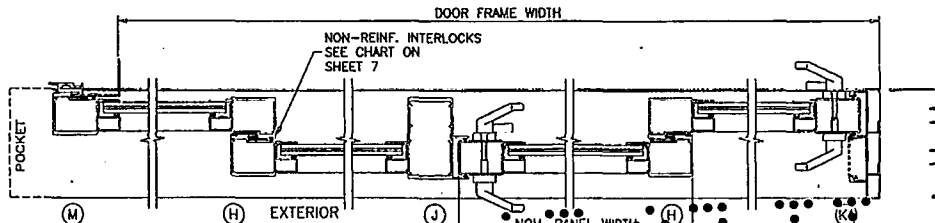
PXX (SHOWN)
XXP



PXXX



PXXXX



PXXXX (SHOWN)
PXXXX
XXXXP
OXXXXP

APPROVED CONFIGURATIONS

POCKETED DOORS (NON-REINFORCED SHOWN)

SEE SHEET 7 FOR DP AND REINFORCING OPTIONS

TWO (2) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL
AND TO BE REVIEWED BY AHJ.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0627-15
Expiration Date 9/22/20
By: [Signature]
Miami Dade Product Control

Engr: JAVAD AHMAD
CNL
FLA. PC # 70592
CA# 3538

FEB 25 2015

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 284-8100 FAX (305) 282-6978
COMP-ANL W10-31CGI

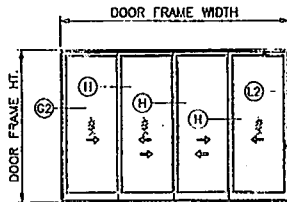
SERIES SENTINEL 150 ALUM SIDING GLASS DOOR (LAL)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6390 FAX (305) 593-6592

REV.	DATE	BY	DESCRIPTION
1	01.16.14	NO	NO CHANGE THIS SHEET
2	06.09.14	GENERAL	GENERAL REVISION
3	11.12.14	REV. PER	REV. PER COMMENTS
4	10.03.15	K	REV. PER COMMENTS

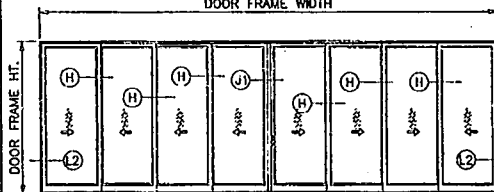
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scale:	-
dr. by:	-
chk. by:	-

drawing no.
W10-31

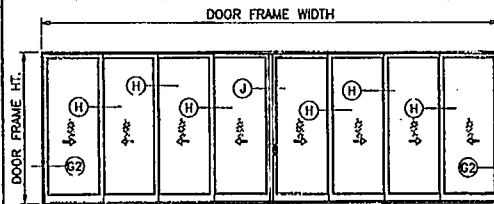
(sheet 6 of 16)



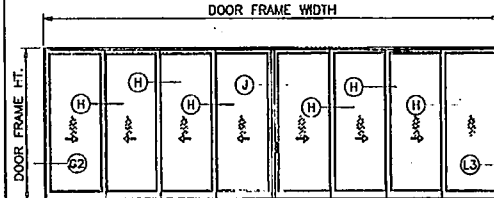
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OXXX
XXXXO
XXXX (REVERSE)



XXXXXXXX (SHOWN)
OXXXXXXO



XXXXXXXX (SHOWN)
OXXXXXXO



XXXXXXXXO (SHOWN)
OXXXXXXO

APPROVED CONFIGURATIONS

NON-POCKETED DOORS (NON-REINFORCED SHOWN)

SEE SHEET 7 FOR DP AND REINFORCING OPTIONS

FOUR (4) TRACKS

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 14-060716
Expiration Date 9/22/17
By: [Signature]
Miami Dade Product Control

NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE NON REINFORCED OR REINFORCED DESIGN PRESSURES SEE SHEET 7.
3. ANCHOR DETAILS SEE SHEETS 8 THRU 13.
4. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

FEB 25 2015

af c
AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 302-6978
COMP-ANL W10-31CGI

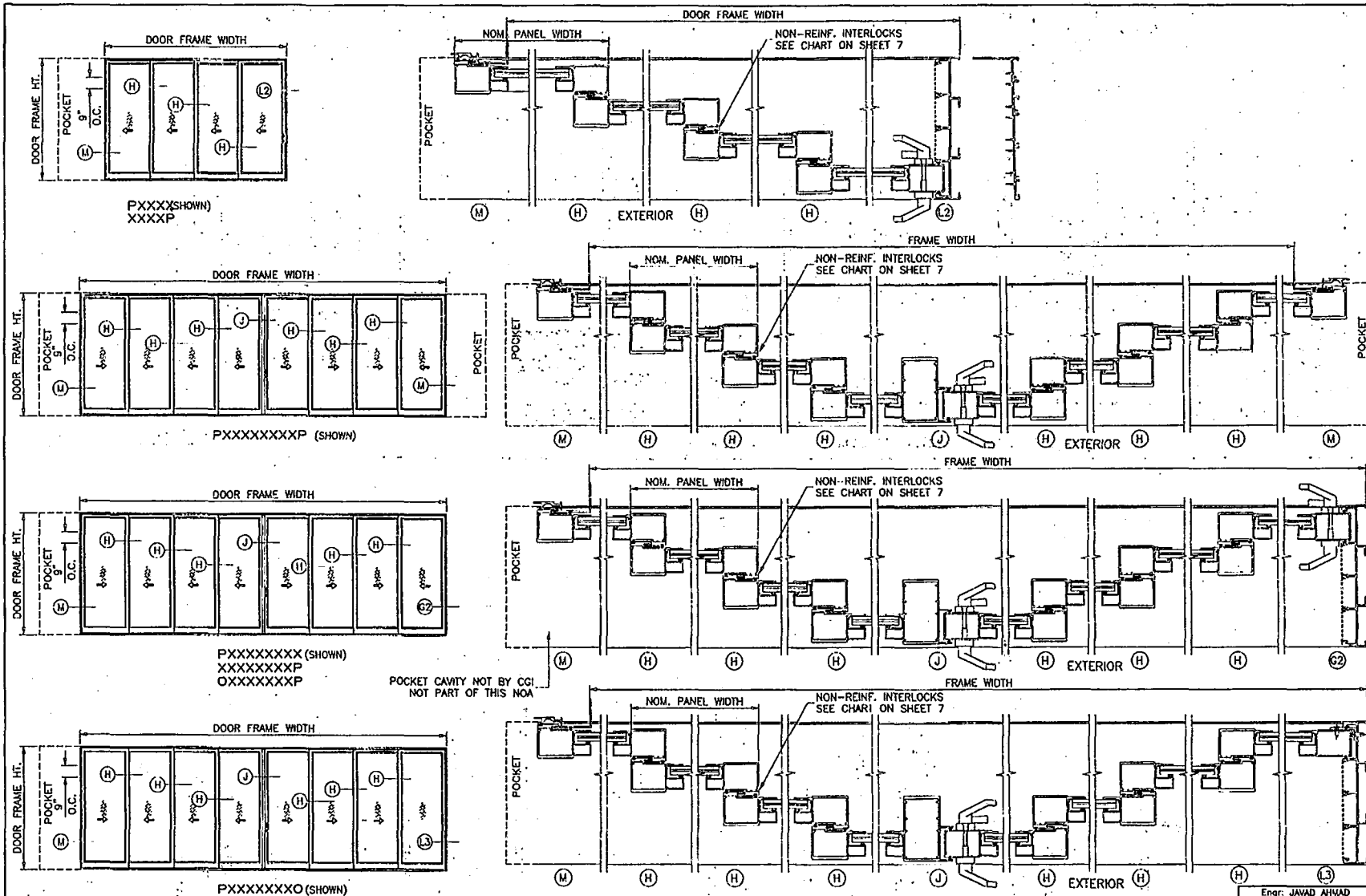
SERIES SERIAL 150 ALUM SURING GLASS DOOR (LUL)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

REV	DATE	BY	DESCRIPTION
H	10-18-14	J	NO CHANGE THIS SHEET
I	08-09-14	J	GENERAL REVISION
J	11-12-14	J	REV PER PER COMMENTS
K	02-03-15	J	REV PER PER COMMENTS

date: 05-20-10
series: -
dr. by:
chk. by:

drawing no.
W10-31

sheet 6.1 of 16



APPROVED CONFIGURATIONS

POCKETED DOORS (NON-REINFORCED SHOWN)

SEE SHEET 7 FOR D_p AND REINFORCING OPTIONS

FOUR (4) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL AND TO BE REVIEWED BY AHJ.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0627.15
Expiration Date 9/22/2015
By: [Signature]
Official Date Product Control

NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE NON-REINFORCED OR REINFORCED DESIGN PRESSURES SEE SHEET 7.
3. FOR ANCHOR DETAILS SEE SPECS 8 THRU 13.
4. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

FEB-25-2015

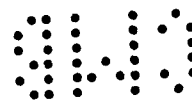
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
2235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-8978
COMP-ANL W10-31CG

SERIES SETTING 150 ALUM. SLIDING GLASS DOOR (L.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

REV.	DATE	BY	DESCRIPTION
H	01.16.14		NO CHANGE THIS SHEET
I	06.09.14		GENERAL REVISION
J	11.12.14		REV. PER REV COMMENTS
K	02.03.15		REV. PER REV COMMENTS

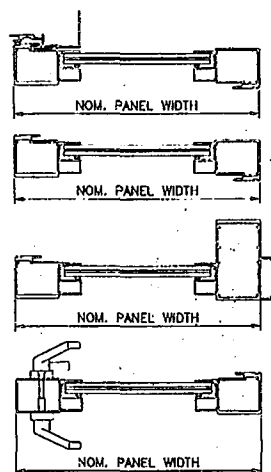
date	05-20-10
drawn by	
checked by	
date	
drawn by	
checked by	

drawing no.
W10-31
(sheet 6 of 16)



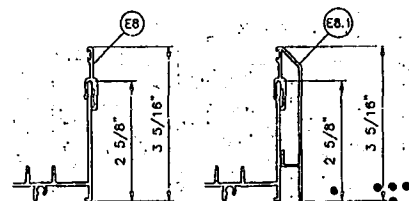
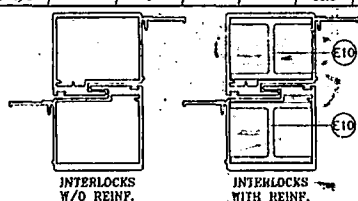
DESIGN LOAD CAPACITY - PSF (GLASS)						
HOM. PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	NUMBER OF PANELS ALLOWED	GLASS TYPES 'A' & 'A1'		GLASS TYPES 'B' & 'B1'	
			INTERLOCKS W/O REINF.		INTERLOCKS WITH REINF.	
			EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24-1/8	80	10	60.0	60.0	80.0	80.0
30-1/8		10	60.0	60.0	80.0	80.0
36-1/8		10	60.0	60.0	80.0	80.0
42-1/8		10	60.0	60.0	80.0	80.0
48-1/8		10	60.0	60.0	80.0	80.0
54-1/8	84	9	53.4	53.4	71.1	71.1
24-1/8		10	60.0	60.0	80.0	80.0
30-1/8		10	60.0	60.0	80.0	80.0
36-1/8		10	60.0	60.0	80.0	80.0
42-1/8		10	60.0	60.0	80.0	80.0
48-1/8	90	10	60.0	60.0	80.0	80.0
54-1/8		9	53.4	53.4	71.1	71.1
24-1/8		10	60.0	60.0	80.0	80.0
30-1/8		10	60.0	60.0	80.0	80.0
36-1/8		10	60.0	60.0	80.0	80.0
42-1/8	96	10	60.0	60.0	80.0	80.0
48-1/8		9	60.0	60.0	80.0	80.0
24-1/8		10	60.0	60.0	80.0	80.0
30-1/8		10	60.0	60.0	80.0	80.0
36-1/8		10	60.0	60.0	80.0	80.0
42-1/8	102	10	60.0	60.0	80.0	80.0
48-1/8		9	53.4	53.4	71.1	71.1
24-1/8		10	60.0	60.0	80.0	80.0
30-1/8		10	60.0	60.0	80.0	80.0
36-1/8		10	60.0	60.0	80.0	80.0
42-1/8	108	10	60.0	60.0	80.0	80.0
48-1/8		9	60.0	60.0	80.0	80.0
24-1/8		10	60.0	60.0	80.0	80.0
30-1/8		10	60.0	60.0	80.0	80.0
36-1/8		10	60.0	60.0	80.0	80.0
42-1/8	114	10	60.0	60.0	80.0	80.0
48-1/8		9	60.0	60.0	80.0	80.0
24-1/8		10	60.0	60.0	80.0	80.0
30-1/8		10	60.0	60.0	80.0	80.0
36-1/8		10	60.0	60.0	80.0	80.0
42-1/8	120	10	60.0	60.0	80.0	80.0
48-1/8		9	60.0	60.0	80.0	80.0
24-1/8		10	60.0	60.0	80.0	80.0
30-1/8		10	60.0	60.0	80.0	80.0
36-1/8		10	60.0	60.0	80.0	80.0
42-1/8	126	10	60.0	60.0	80.0	80.0
48-1/8		9	60.0	60.0	80.0	80.0
24-1/8		10	60.0	60.0	80.0	80.0
30-1/8		10	60.0	60.0	80.0	80.0
36-1/8		10	60.0	60.0	80.0	80.0

GLASS CAPACITY CHARTS



APPLICABLE FBC EGRESS
REQUIREMENTS TO BE
REVIEWED BY AHJ.

HOM. PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	NUMBER OF PANELS ALLOWED	GLASS TYPES 'A', 'B', 'A1', 'B1'	
			INTERLOCKS WITH REINF.	
			EXT.(+)	INT.(-)
24-1/8	102	10	60.0	60.0
30-1/8		10	60.0	60.0
36-1/8		10	60.0	60.0
42-1/8		10	60.0	60.0
48-1/8		10	60.0	60.0
54-1/8	108	9	53.4	53.4
24-1/8		10	60.0	60.0
30-1/8		10	60.0	60.0
36-1/8		10	60.0	60.0
42-1/8		10	60.0	60.0
48-1/8	114	10	60.0	60.0
54-1/8		9	53.4	53.4
24-1/8		10	60.0	60.0
30-1/8		10	60.0	60.0
36-1/8		10	60.0	60.0
42-1/8	120	10	60.0	60.0
48-1/8		9	60.0	60.0
24-1/8		10	60.0	60.0
30-1/8		10	60.0	60.0
36-1/8		10	60.0	60.0
42-1/8	126	10	60.0	60.0
48-1/8		9	60.0	60.0
24-1/8		10	60.0	60.0
30-1/8		10	60.0	60.0
36-1/8		10	60.0	60.0



SILL RISER ITEMS E8 OR E8.1 ARE REQUIRED FOR LOADS
ABOVE +60.0 PSF ONLY.

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

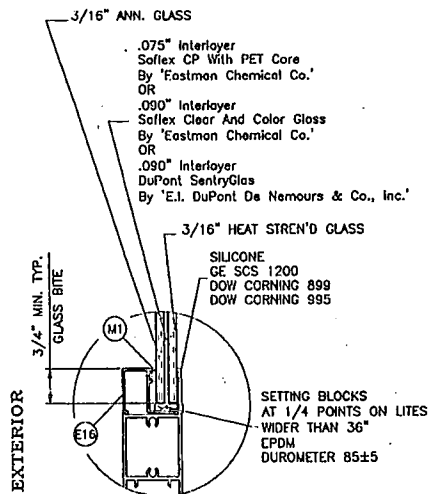
Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
FEB 5 2015

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL: (305) 264-8100 FAX: (305) 262-6978
COMP-ANIL W10-31CG

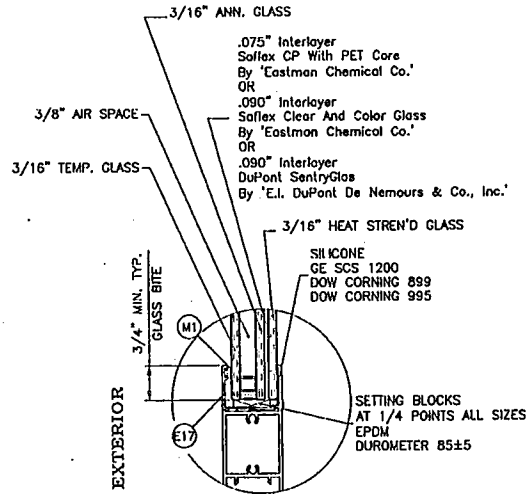
SERIES SENTINEL 150 ALUM. SLIDING GLASS DOOR (L.M.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL: (305) 593-6590 FAX: (305) 593-6592

REVISIONS:	BY	DESCRIPTION
1	H	01.15.14 REV. PER PER COMMENTS
2	J	06.09.14 GENERAL REVISION
3	J	11.12.14 REV. PER PER COMMENTS
4	K	02.03.15 REV. PER PER COMMENTS

DATE: 05-20-10
SCALE: 3/8" = 1'
DRAWING NO. **W10-31**
SHEET 7 OF 16

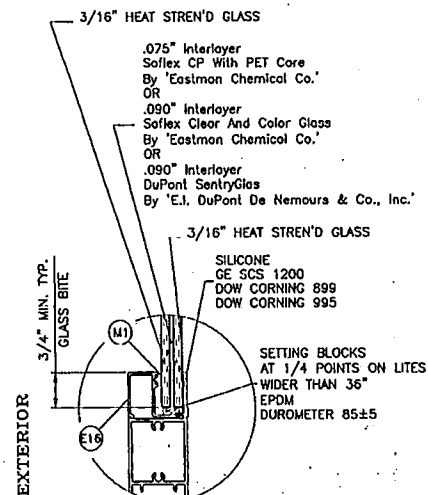


GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS

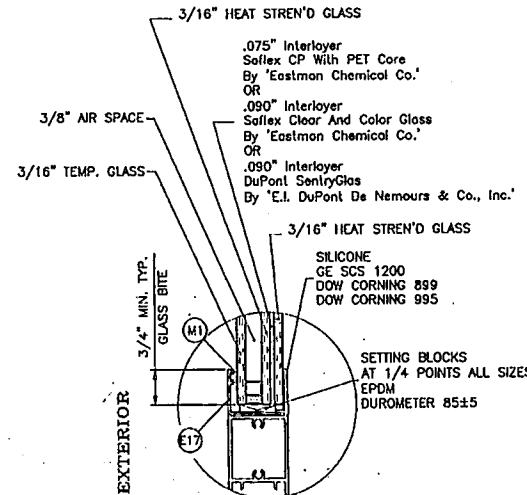


GLASS TYPE 'A1'
1" OVERALL INSUL. LAM. GLASS

AIR SPACE CONSISTING OF:
3/8" SPACER;
.0045" THK. ST. STEEL RECTANGULAR SPACER AROUND
THE PERIMETER OF THE GLASS.



GLASS TYPE 'B'
7/16" OVERALL LAM. GLASS



GLASS TYPE 'B1'
1" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS

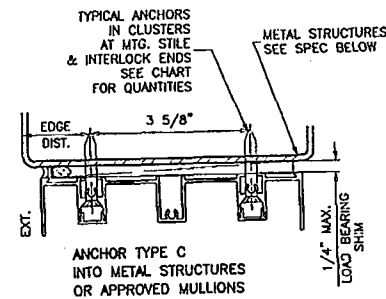
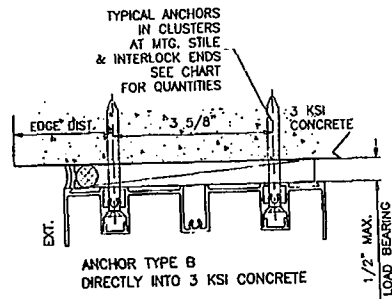
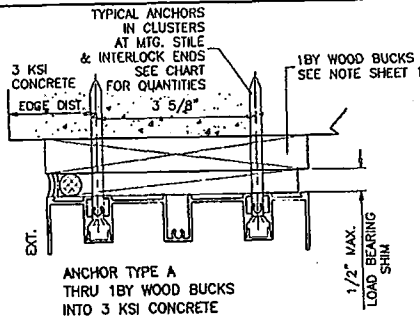
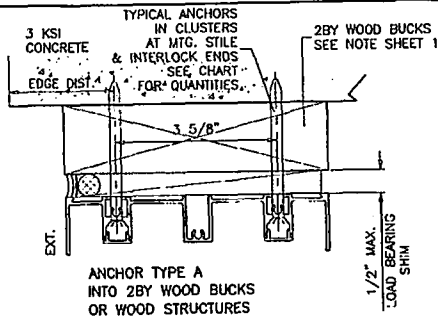
ST. 03.11

Engr: JAWAD AHMAD
CML
FLA. PE # 70592
CAN. 3538

FEB 25 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0627-15
Expiration Date 9/22/20
By: [Signature]
Miami Dade Product Control

af c AL-FAROQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL (305) 262-6978 FAX (305) 262-6978 COMP-ANL W10-31CG	
SERIES SENTINEL 150 ALUM SLIDING GLASS DOOR (L.M.I.) CGI WINDOWS & DOORS 10100 N.W. 25TH STREET MIAMI, FL. 33172 TEL (305) 593-6590 FAX (305) 593-6592	
REVISIONS: NO. DATE BY DESCRIPTION 1 06/28/14 GENERAL REVISION 2 11/12/14 REV. PER PER COMMENTS 3 02/03/15 NO CHANGE THIS SHEET	DATE: 02-20-15 SCALE: 3/8" = 1" DR: JAW CHK: JAW
drawing no. W10-31 sheet 7.1 of 16	



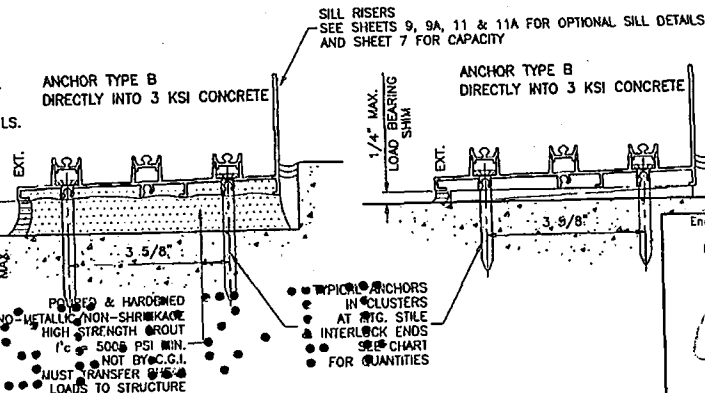
NO. PANEL WIDTH INCHES		DESIGN LOAD CAPACITY - PSF (ANCHORS)											
		HEAD ANCHORS						SILL ANCHORS (TYPE B2)					
		1/2" SHIM SPACE			3/8" SHIM			CLUSTER AT STILE/INTERLOCK ENDS			CLUSTER AT STILE/INTERLOCK ENDS		
		4 (8)	6 (8)	8 (10)	4 (8)	6 (8)	8 (10)	EXT.(+)	EXT.(+)	EXT.(+)	EXT.(+)	EXT.(+)	EXT.(+)
24-1/8	82	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30-1/8		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36-1/8		73.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42-1/8		66.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48-1/8		61.2	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
54-1/8	84	57.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
24-1/8		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30-1/8		79.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36-1/8		69.2	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42-1/8		62.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48-1/8	86	57.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
54-1/8		53.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
24-1/8		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30-1/8		73.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36-1/8		63.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42-1/8	96	56.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48-1/8		51.9	77.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
24-1/8		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30-1/8		67.6	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36-1/8		58.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42-1/8	102	52.2	78.3	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48-1/8		47.6	71.4	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
24-1/8		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30-1/8		60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36-1/8		54.3	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42-1/8	108	48.3	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48-1/8		43.9	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
54-1/8		40.6	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
24-1/8		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30-1/8		58.8	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36-1/8	114	50.7	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42-1/8		45.0	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48-1/8		40.8	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
24-1/8		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30-1/8		55.3	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36-1/8	120	47.5	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42-1/8		42.1	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
48-1/8		38.1	57.1	60.0	44.0	60.0	37.4	60.0	80.0	80.0	80.0	80.0	80.0
24-1/8		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
30-1/8		52.1	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36-1/8	120	44.7	60.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42-1/8		39.5	50.3	60.0	45.7	60.0	38.9	60.0	80.0	80.0	80.0	80.0	80.0
48-1/8		35.7	53.6	60.0	41.3	60.0	35.1	60.0	80.0	80.0	80.0	80.0	80.0

TYPICAL ANCHORS; SEE ELEV. FOR SPACING

AT HEAD
 TYPE 'A' - 1/4" X 3-1/4" ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 THRU 1BY BUCKS INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE
 THRU 2BY BUCKS INTO CONCRETE
 1/2" MIN. EMBED INTO CONCRETE
 TYPE 'B' - 1/4" X 3-1/4" ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 DIRECTLY INTO CONCRETE
 2" MIN. EMBED
 TYPE 'C' - 1/4" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (1/8" THK. MIN.)
 INTO METAL STRUCTURES
 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 'B2' - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 DIRECTLY INTO CONCRETE
 1-3/4" MIN. EMBED INTO CONCRETE

NOTE:
 ANCHOR CAPACITIES LISTED ON THIS SHEET TO BE USED IN CONJUNCTION WITH GLASS CHARTS ON SHEET 7. LOWER APPLICABLE VALUES CONTROL. 3 TRACK SYSTEM SHOWN ALSO APPLICABLE TO 2 AND 4 TRACK FRAMES. PLEASE SEE FOLLOWING SHEETS FOR DETAILS.

DESIGN REVIEWED
 as complying with the Florida Building Code
 Approved No. 14-062215
 Expiration Date 9/22/20
 By: [Signature]
 Miami Dade Product Control



LIMIT EXT.(+) LOADS TO 60.0 PSF FOR DOORS W/O REINFORCING ALL SIZES
 LIMIT EXT.(+) LOADS TO 80.0 PSF FOR DOORS W/ REIN. UPTO 96 IN. HT.
 LIMIT EXT.(+) LOADS TO 60.0 PSF FOR DOORS W/ REIN. ABOVE 96 IN. HT. UPTO 120 IN. HT.

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

INSTALLATION CONDITIONS SHOWN APPLY TO BOTH 2 TRACK AND 3 TRACK SYSTEMS WITH STD. OR ALTERNATE FRAME HEAD AND SILL.

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 3235 S.W. 87 AVE.
 MIAMI, FLORIDA 33174
 TEL (305) 264-8100 FAX (305) 262-6978
 COMP-ANL W10-31(CD)

CGI WINDOWS & DOORS
 10100 N.W. 25TH STREET
 MIAMI, FL 33172
 TEL (305) 593-6590 FAX (305) 593-6592

SERIES SENTINEL 150 ALUM SLIDING GLASS DOOR (LULU)

REV	DATE	BY	DESCRIPTION
1	01.16.14	REV. PER COMMENTS	
2	06.09.14	GENERAL REVISION	
3	11.12.14	REV. PER COMMENTS	
4	02.03.15	REV. PER COMMENTS	

date: 08-20-10
 scale: 3/8" = 1"
 dr. by: [Signature]
 chg. by: [Signature]

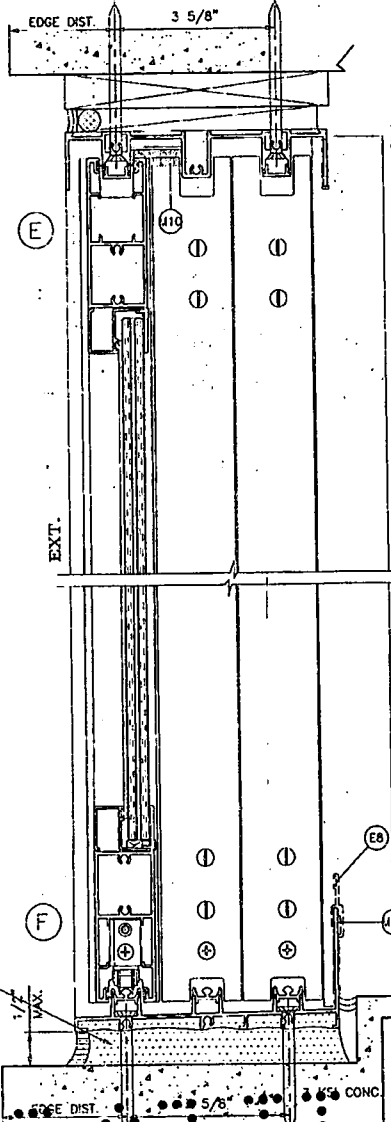
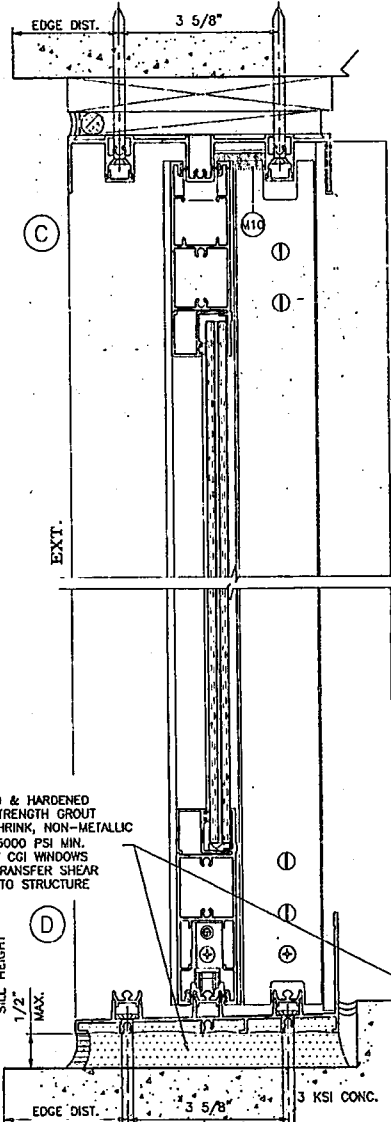
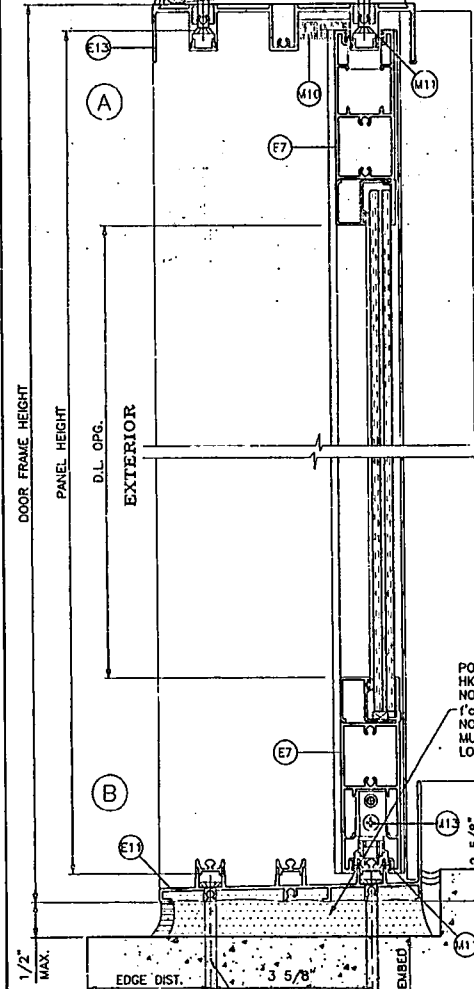
drawing no. **W10-31**
 sheet 8 of 16

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 1538
 FEB 25 2015

1/2" MAX.
LOAD BEARING
SHIM

SEE SHEET 8 FOR ANCHORS

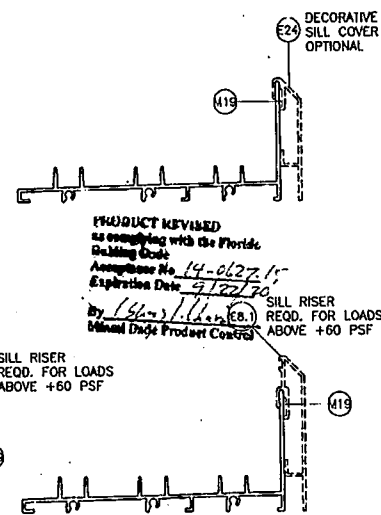
EDGE DIST. 3 5/8"



WEEP SIZE 1/4" X 1/8"

REFER TO SHEET 8 FOR VARIOUS
INSTALLATION CONDITIONS.

OPTIONAL SLANT SILL ADAPTORS



POURED & HARDENED
HIGH STRENGTH GROUT
NON-SHRINK, NON-METALLIC
f'c = 5000 PSI MIN.
NOT BY CGI WINDOWS
MUST TRANSFER SHEAR
LOADS TO STRUCTURE

SILL RISER
REQD. FOR LOADS
ABOVE +60 PSF

Engr. JAVAD AHMAD
CML
FLA. PE # 70592
CAN. 3538

FEB 26 2015

THREE (3) TRACK DOOR DETAILS

af c

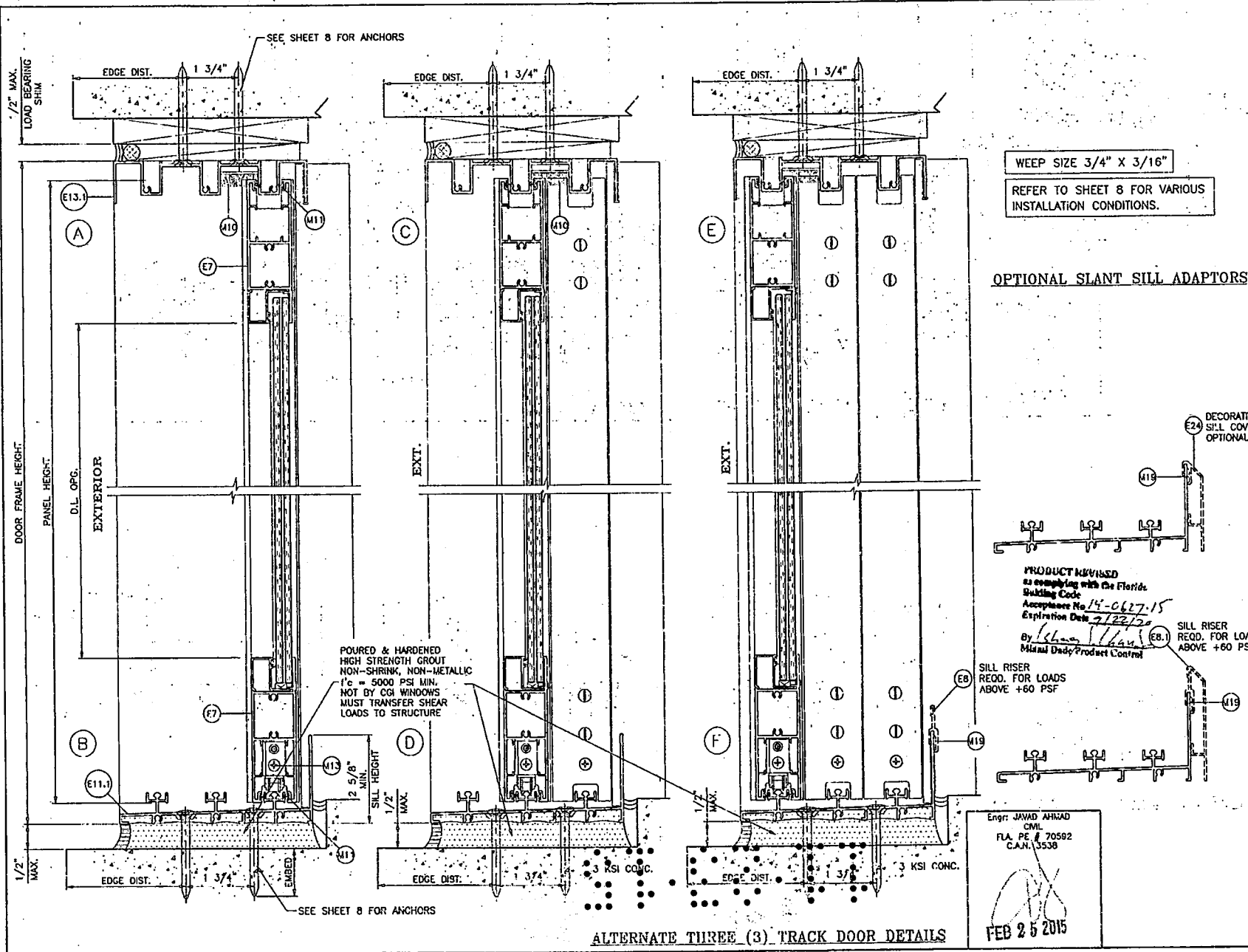
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12345 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8400 FAX (305) 262-5978
COMP-ANL W10-31CGI

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

SERIES SERVING 150 ALUM SLIDING GLASS DOOR (L.U.)

REVISIONS:	DATE	BY	DESCRIPTION
1	01.16.14	H	NO CHANGE THIS SHEET
2	06.08.14	J	GENERAL REVISION
3	11.12.14	J	REV. PER PER COMMENTS
4	02.03.15	K	REV. PER PER COMMENTS

date: 03-20-10
scale: 3/8" = 1"
dr. by:
chk. by:
drawing no. **W10-31**
sheet 9 of 16



ALTERNATE THREE (3) TRACK DOOR DETAILS

Engr: JAVAD AHMAD
CML
FLA. PE. # 70592
C.A.N. 3538

FEB 25 2015

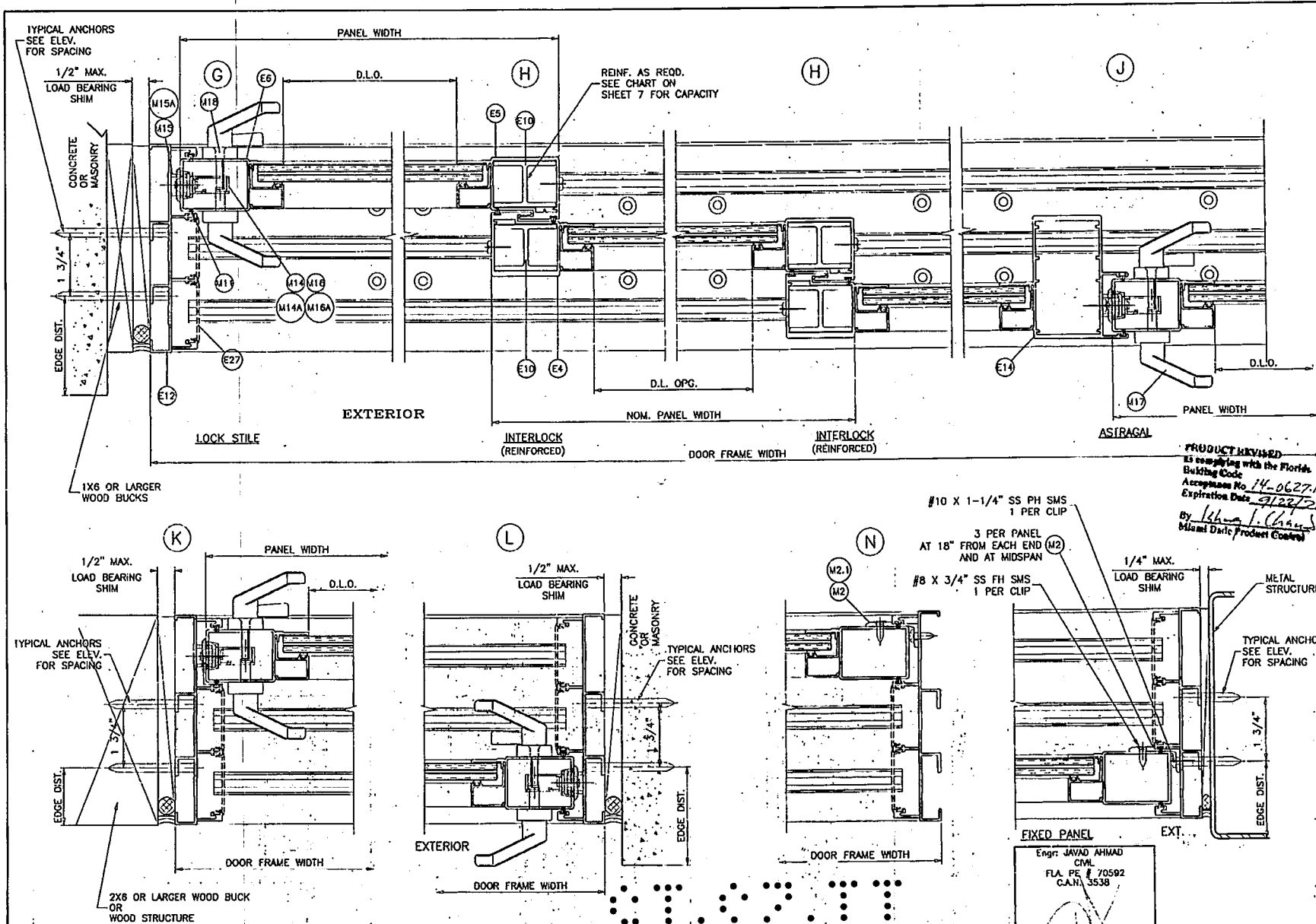
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 262-6978
FAX. (305) 262-6978
COMP-AL W10-3103

SERIES SEXTINE 150 ALUM SLIDING GLASS DOOR (L.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590
FAX. (305) 593-6592

REV	DATE	BY	DESCRIPTION
1	01.16.14		NO CHANGE THIS SHEET
2	06.09.14		GENERAL REVISION
3	11.12.14		REV. PER PER COMMENTS
4	02.03.15		REV. PER PER COMMENTS

date: 08-20-10
scale: 3/8" = 1"
dr. by:
chk. by:

drawing no.
W10-31
sheet 9 of 16



af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL W10-31CGI

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

REVISIONS:

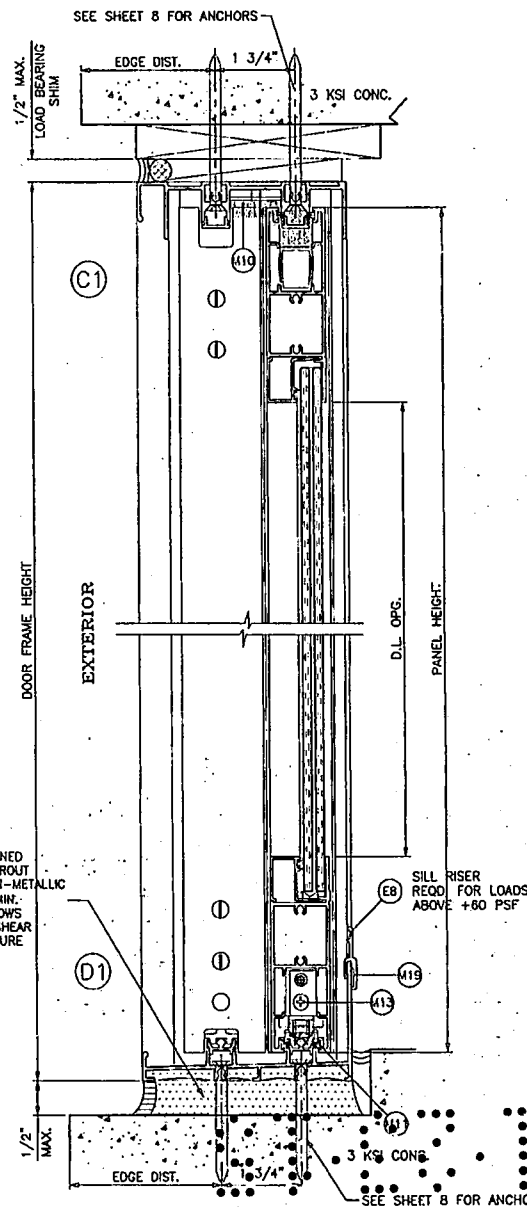
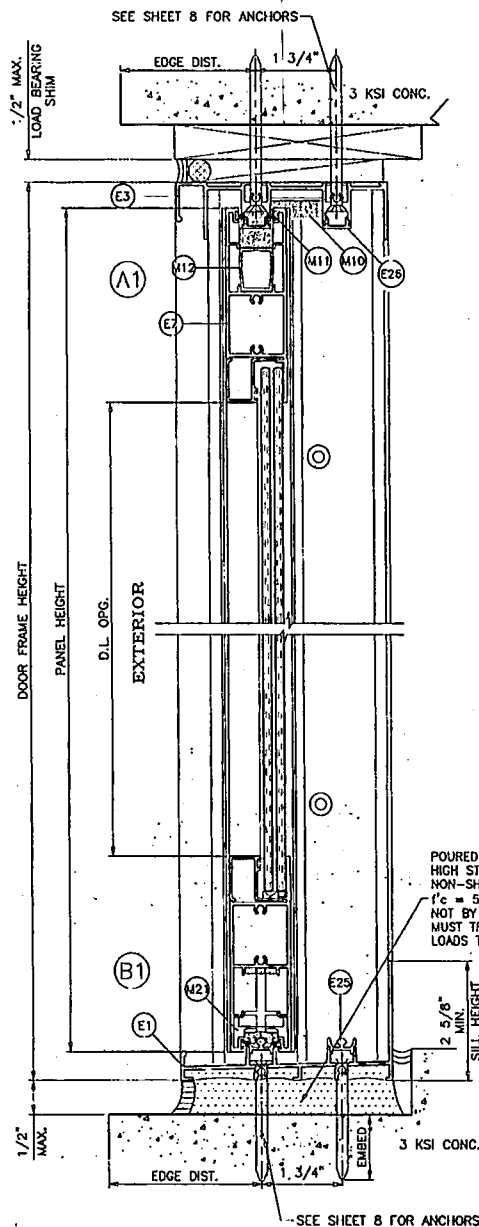
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1	01.16.14	NO CHANGE THIS SHEET	H
2	08.09.14	GENERAL REVISION	J
3	11.12.14	REV. PER PER COMMENTS	J
4	02.03.15	REV. PER PER COMMENTS	K

date: 05-20-10
scale: 3/8" = 1"
dr. by:
chk. by:

drawing no.
W10-31

sheet 10 of 16

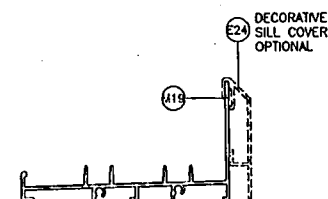
PRODUCT REVISION
AS complying with the Florida Building Code
Acceptance No. 14-062715
Expiration Date 9/12/20
By: J. L. (Signature)
Miami Dade Product Control



WEEP SIZE 1/4" X 1/8"

REFER TO SHEET 8 FOR VARIOUS INSTALLATION CONDITIONS.

OPTIONAL SLANT SILL ADAPTORS



PRODUCT REVISED

as complying with the Florida

Building Code

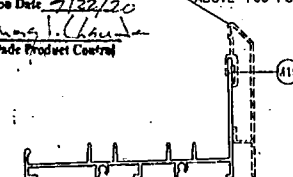
Amendment No. 16-0627-15

Expiration Date 7/32/20

By [Signature]

Aluminum Product Control

SILL RISER
OPTIONAL FOR LOADS
ABOVE +60 PSF



Engr: JAVAD AHMAD
CIVIL
FLA. P.E. # 70592
C.A.N. 3538

FEB 25 2015

TWO (2) TRACK DOOR DETAILS

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8400 FAX. (305) 262-6978
COMP-ANLW10-31CGI

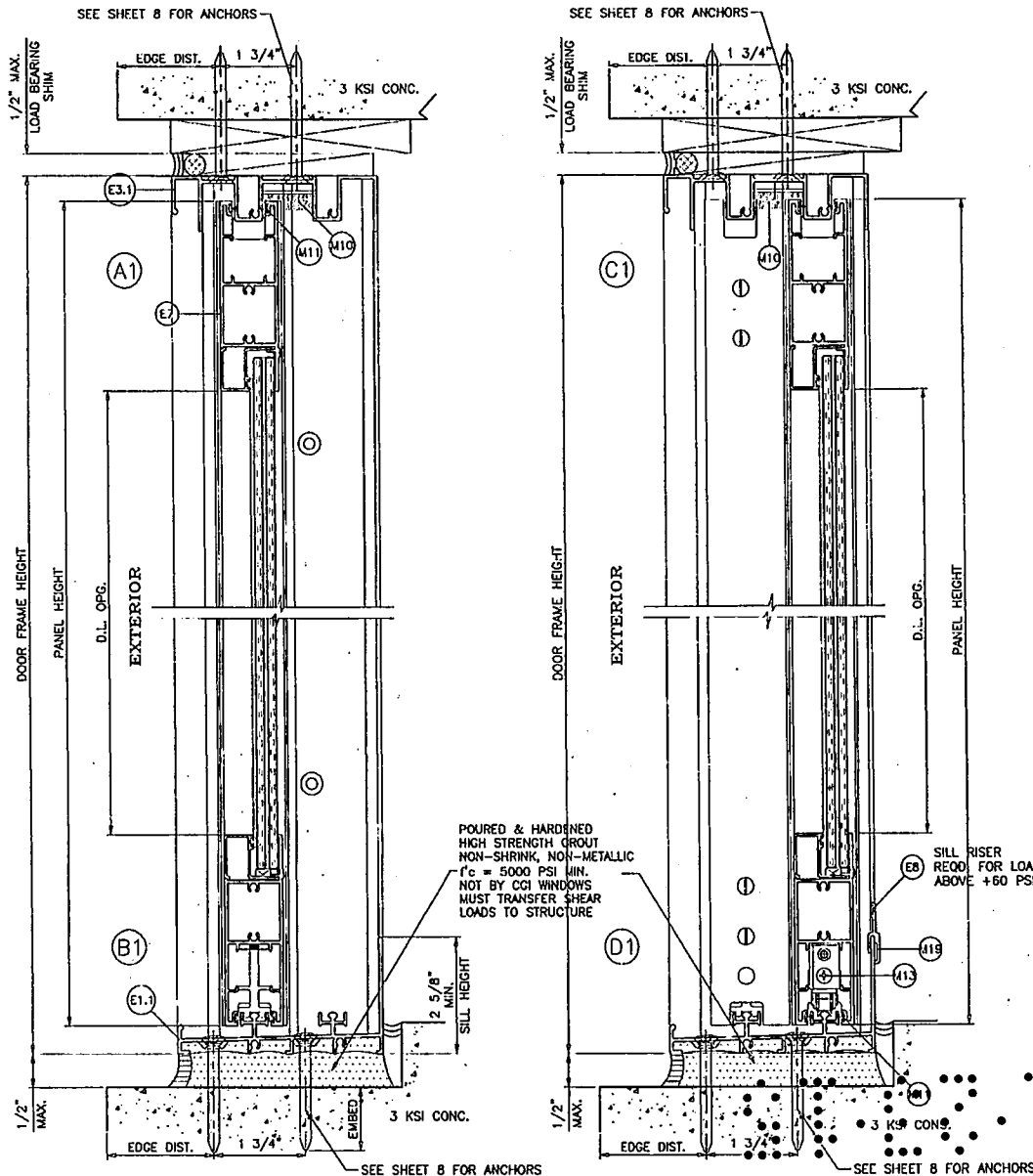
SERIES SENTINEL 150 ALUM SLIDING GLASS DOOR (L.H.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

REVISIONS:	DATE	DESCRIPTION
1	06-16-14	NO CHANGE THIS SHEET
2	08-03-14	GENERAL REVISION
3	11-12-14	REV. PER PER COMMENTS
4	02-03-15	REV. PER PER COMMENTS

date: 06-20-10
scale: 3/8" = 1"
dr. by:
civ. by:

drawing no.
W10-31

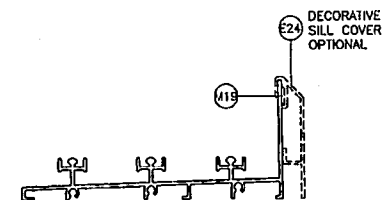
sheet 11 of 16



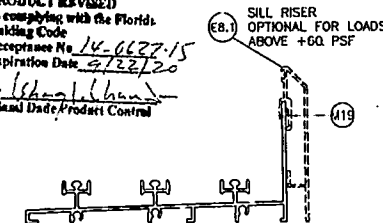
WEEP SIZE 3/4" X 3/16"

REFER TO SHEET 8 FOR VARIOUS INSTALLATION CONDITIONS.

OPTIONAL SLANT SILL ADAPTORS



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0627-15
Expiration Date 9/22/20
By *[Signature]*
Miami Dade Product Control



Engr: JAVAD AHMAD
CML
FLA. PE # 70592
C.A.M. 8538

FEB 25 2015

ALTERNATE TWO (2) TRACK DOOR DETAILS

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
4225 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 282-4300 FAX (305) 282-6978
COMP-ANL W10-31CGI

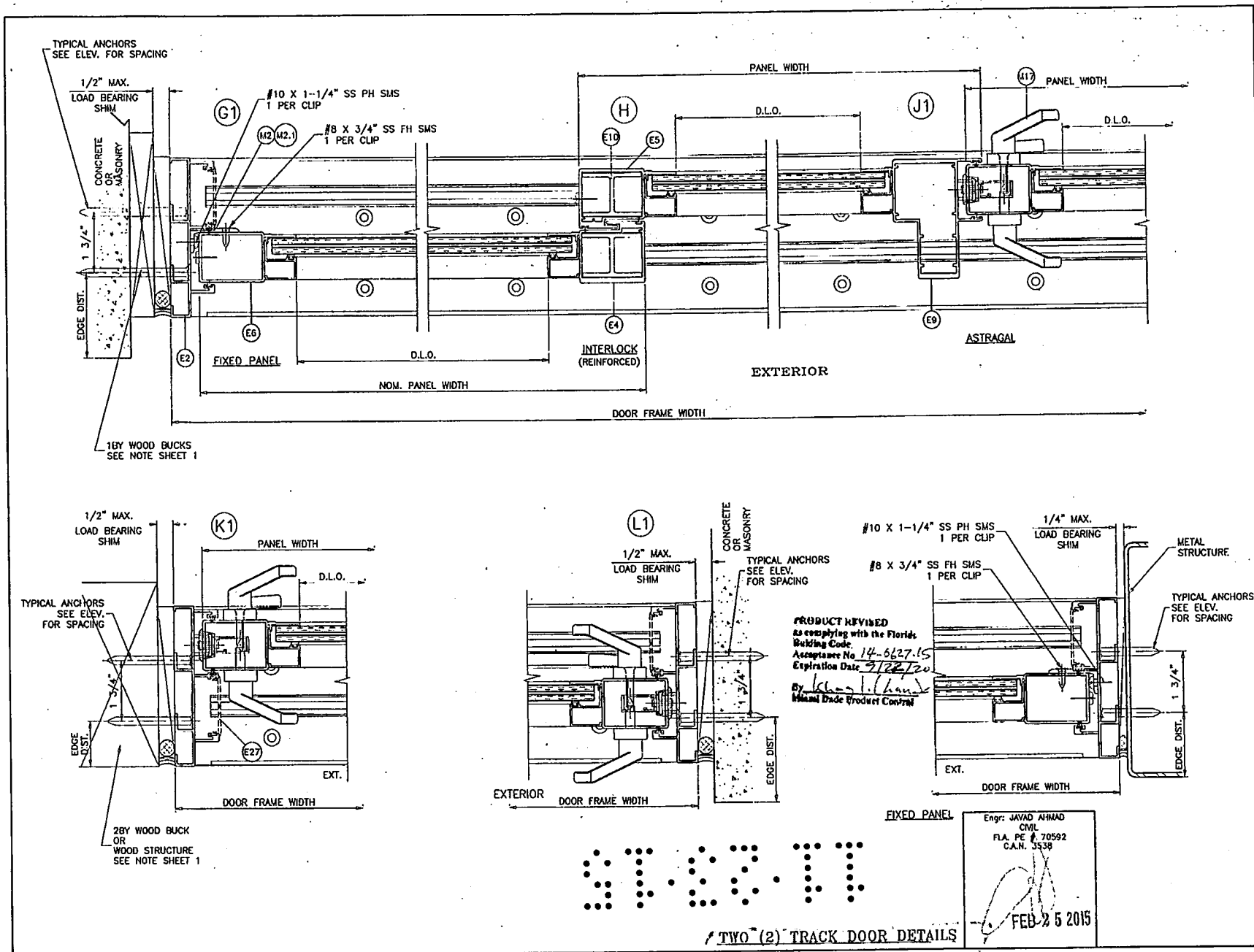
SERIES SENTINEL 150 ALUM SLIDING GLASS DOOR (L.M.I.)
CGI WINDOWS & DOORS
10700 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

REVISIONS:	DATE	BY	DESCRIPTION
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2	01.28.14	GENERAL REVISION	
3	11.12.14	REV. PER PER COMMENTS	
4	02.03.15	REV. PER PER COMMENTS	

Date: 05-20-10
Scale: 3/8" = 1"
Dr. by:
chk. by:

drawing no.
W10-31

sheet 11 of 16



570311

TWO (2) TRACK DOOR DETAILS

050

a f c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANI\W10-31(C3)

SERIES SENTINEL 150 ALUM SLIDING GLASS DOOR (L.M.I.)

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL (305) 593-6590 FAX (305) 593-6592

REV.	DATE	BY	DESCRIPTION
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2	04.09.14	GENERAL	GENERAL REVISION
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4	02.03.15	REV.	REV. PER COMMENTS

date: 05-20-10

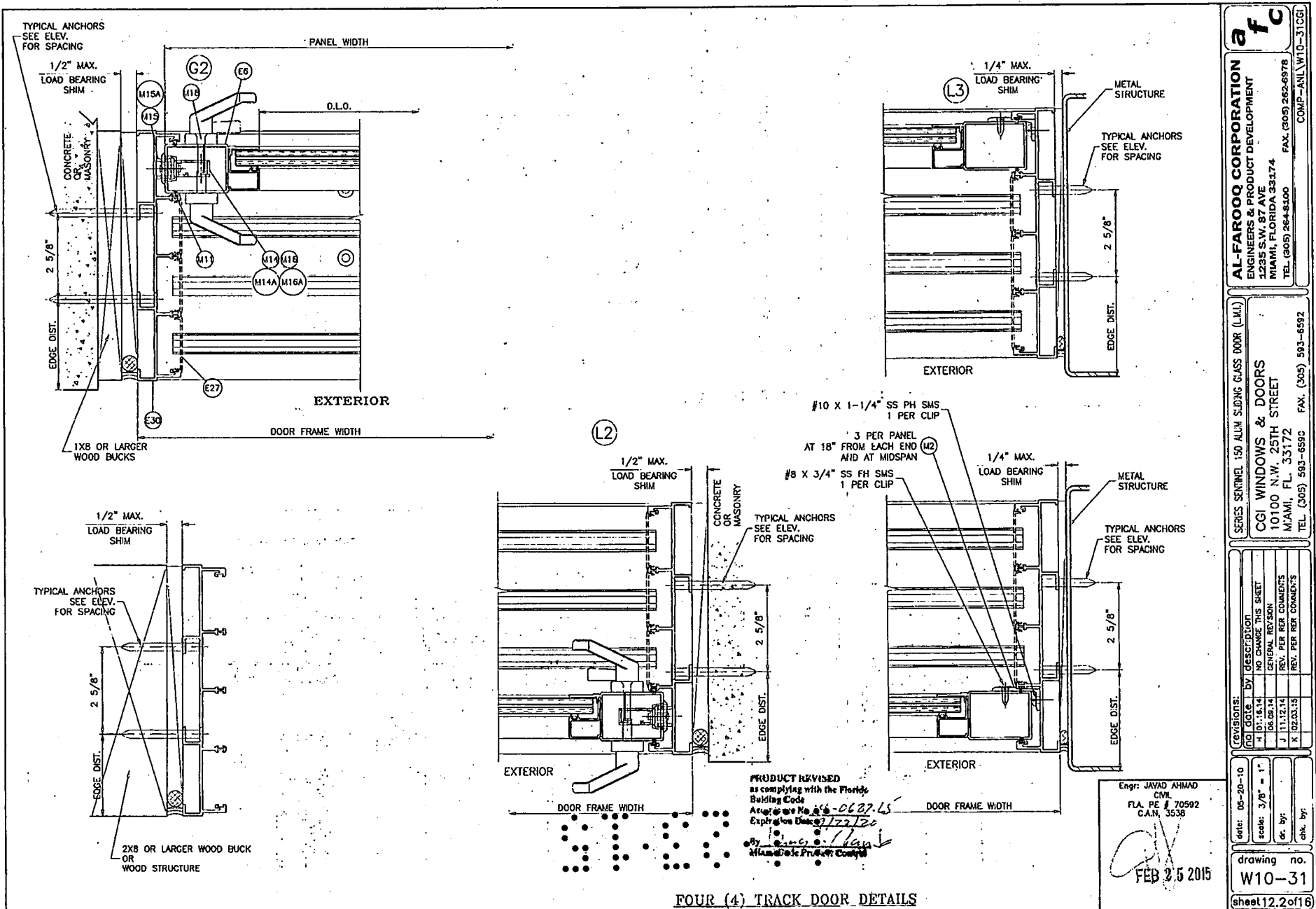
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dr. by:

chk. by:

drawing no.
W10-31

sheet 12 of 16



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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12395 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W10-31CGI

SERIES SEKTREL 150 ALUM SLIDING GLASS DOOR (L.M.I.)

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6592 FAX. (305) 593-6592

REV	DATE	BY	DESCRIPTION
A	01.18.14	NO	ISSUE THIS SHEET
B	06.02.14	GENERAL	REVISION
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K	02.03.15	REV	PER COMMENTS

date: 05-20-10

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dr. by:

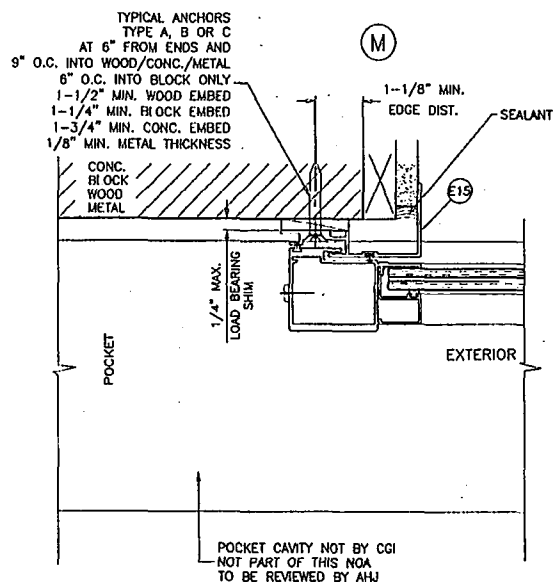
chk. by:

drawing no.

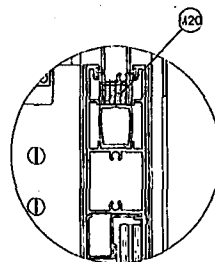
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sheet 12.2 of 16

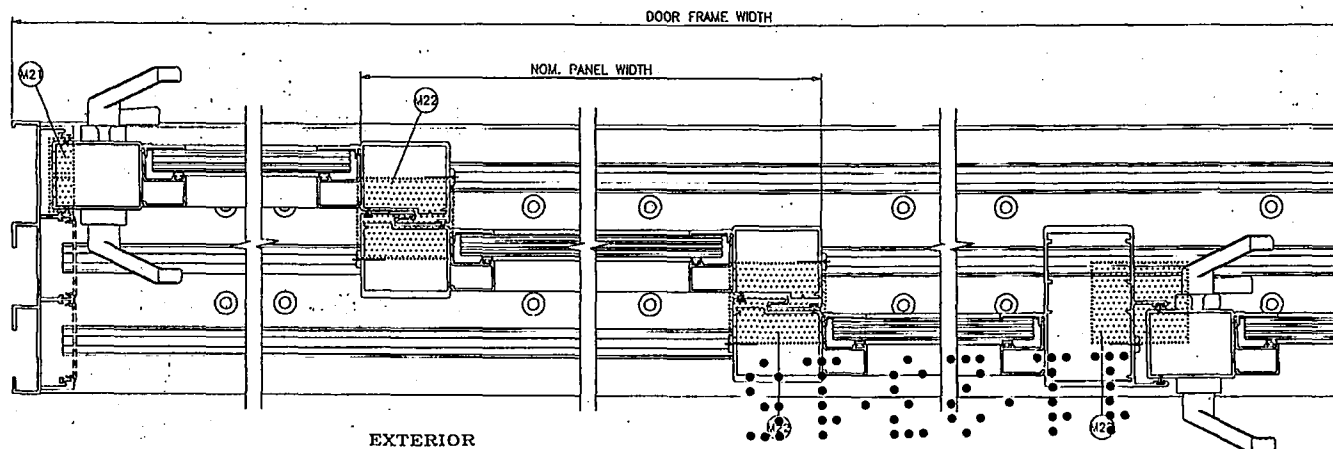
EXTERIOR MOUNTED POCKETED JAMB



TYPICAL PAD PILE INSTALLATION LOCATION



TYPICAL AT PANEL 4 CORNERS

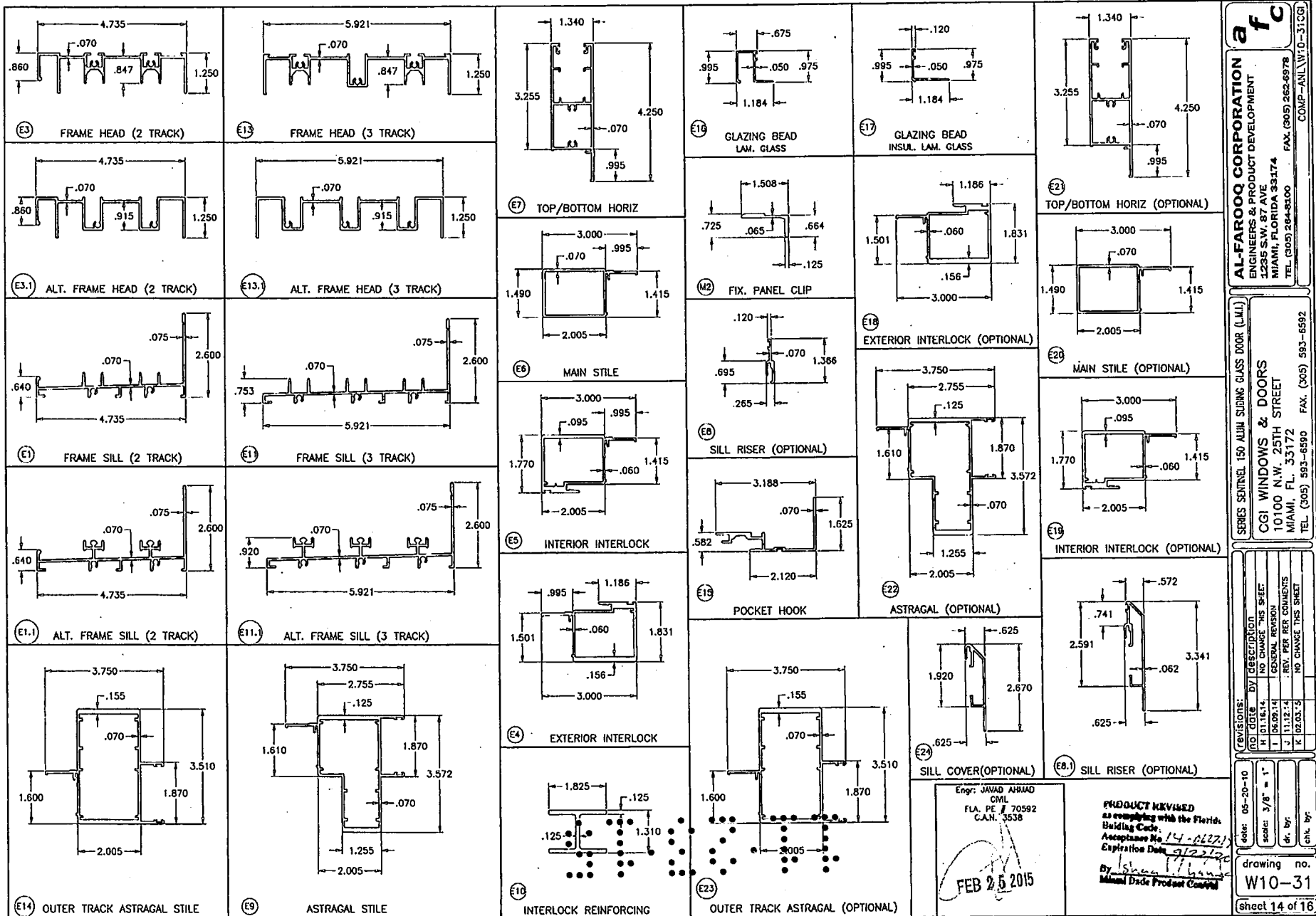


PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0627-15
Expiration Date 9/22/20
By: [Signature]
Miami Trade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. REG. # 70592
C.A.N. 3538

FEB 25 2015

af c AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL (305) 264-8100 FAX (305) 262-6978 COMP-ANL W10-3106	
SERIES SENTINEL 150 ALUM SLIDING GLASS DOOR (L.M.I.) CGI WINDOWS & DOORS 10100 N.W. 25TH STREET MIAMI, FL. 33172 TEL (305) 593-6590 FAX (305) 593-6592	
REVISIONS: NO. DATE BY DESCRIPTION H 01.16.14 NO CHANGE THIS SHEET I 06.09.14 GENERAL REVISION J 11.12.14 REV PER PER COMMENTS K 02.03.15 REV PER PER COMMENTS	date: 05-20-10 scale: 3/8" = 1" dr. by: ch. by:
drawing no. W10-31 sheet 13 of 16	



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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 34th AVE
MIAMI, FLORIDA 33174
TEL: (305) 264-8500 FAX: (305) 262-9978
COMP-ANL W10-31CGI

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL: (305) 593-6590 FAX: (305) 593-6592

REVISIONS:

NO.	DATE	BY	DESCRIPTION
1	01/18/14	NO CHANGE THIS SHEET	
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4	11/12/14	NO CHANGE THIS SHEET	
5	02/03/15	NO CHANGE THIS SHEET	

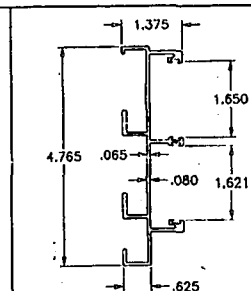
DATE: 05-20-10
SCALE: 3/8" = 1"
DR. BY:
CHEK BY:

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 14-01271
Expiration Date 7/22/19
By: [Signature]
Miami Dade Product Council

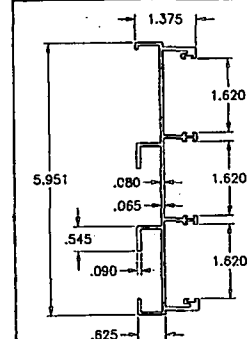
drawing no.
W10-31
(sheet 14 of 16)

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
FEB 25 2015

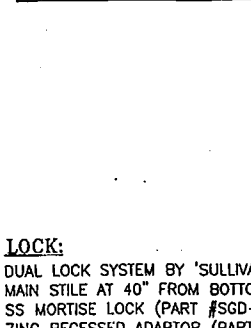
CODE	PART No.	DESCRIPTION	MATERIAL	MANUF.	REMARKS
E1	CGI-183	FRAME SILL 2 TRACK	6063-T6	CGI EXTRUDER	-
E1.1	CGI-150	ALT. FRAME SILL 2 TRACK	6063-T6	CGI EXTRUDER	-
E2	CGI-151	FRAME JAMB 2 TRACK	6063-T6	CGI EXTRUDER	-
E3	CGI-186	FRAME HEAD 2 TRACK	6063-T6	CGI EXTRUDER	-
E3.1	CGI-152	ALT. FRAME HEAD 2 TRACK	6063-T6	CGI EXTRUDER	-
F4	CGI-153	EXTERIOR INTERLOCK	6063-T6	CGI EXTRUDER	-
E5	CGI-154	INTERIOR INTERLOCK	6063-T6	CGI EXTRUDER	-
E6	CGI-155	MAIN STILE	6063-T6	CGI EXTRUDER	-
E7	CGI-156	TOP & BOTTOM HORIZ	6063-T6	CGI EXTRUDER	-
E8	CGI-157	SILL RISER	6063-T6	CGI EXTRUDER	-
E8.1	CGI-181	ALT. SILL RISER(OPTIONAL)	6063-T6	CGI EXTRUDER	-
E9	CGI-158	ASTRAGAL	6063-T6	CGI EXTRUDER	-
E10	CGI-159	INTERLOCK REINFORCING (LENGTH = FRAME HT. - 8")	6063-T6	CGI EXTRUDER	-
E11	CGI-182	FRAME SILL 3 TRACK	6063-T6	CGI EXTRUDER	-
E11.1	CGI-160	ALT. FRAME SILL 3 TRACK	6063-T6	CGI EXTRUDER	-
E12	CGI-161	FRAME JAMB 3 TRACK	6063-T6	CGI EXTRUDER	-
E13	CGI-185	FRAME HEAD 3 TRACK	6063-T6	CGI EXTRUDER	-
E13.1	CGI-162	ALT. FRAME HEAD 3 TRACK	6063-T6	CGI EXTRUDER	-
E14	CGI-168	OUTER-TRACK ASTRAGAL	6063-T6	CGI EXTRUDER	-
E15	CGI-170	POCKET HOOK	6063-T6	CGI EXTRUDER	-
E16	CGI-121	7/16" GLASS GLAZING BEAD	6063-T5	CGI EXTRUDER	-
E17	CGI-123	1" GLASS GLAZING BEAD	6063-T5	CGI EXTRUDER	-
E18	CGI-153A	EXTERIOR INTERLOCK (OPTIONAL)	6063-T6	CGI EXTRUDER	-
E19	CGI-154A	INTERIOR INTERLOCK (OPTIONAL)	6063-T6	CGI EXTRUDER	-
E20	CGI-155A	MAIN STILE (OPTIONAL)	6063-T6	CGI EXTRUDER	-
E21	CGI-156A	TOP & BOTTOM HORIZ (OPTIONAL)	6063-T6	CGI EXTRUDER	-
E22	CGI-158A	ASTRAGAL (OPTIONAL)	6063-T6	CGI EXTRUDER	-
E23	CGI-168A	OUTER-TRACK ASTRAGAL (OPTIONAL)	6063-T6	CGI EXTRUDER	-
E24	CGI-180	DECORATIVE SILL COVER (OPTIONAL)	6063-T6	CGI EXTRUDER	-
E25	CGI-184	2 & 3 TRACK FRAME SILL SCREW COVER	6063-T6	CGI EXTRUDER	-
E26	CGI-187	2 & 3 TRACK FRAME HEAD SCREW COVER	6063-T5	CGI EXTRUDER	-
E27	CGI-188	FRAME JAMB SCREW COVER (OPTIONAL)	6063-T5	CGI EXTRUDER	-
E28	CGI-1028	FRAME HEAD 4 TRACK	6063-T6	CGI EXTRUDER	-
E29	CGI-1029	FRAME SILL 4 TRACK	6063-T6	CGI EXTRUDER	-
E30	CGI-1030	FRAME JAMB 4 TRACK	6063-T6	CGI EXTRUDER	-
M1	CGI-382V	GLAZING BULD VINYL (DUROMETER 75-80 SHORE A)	PVC	-	-
M2	CGI-171C	FIXED PANEL CLIP (2-1/2" LONG)	6063-T5	-	3 • FIXED PANEL
M3	CGI-173	FIXED PANEL SHIM	NYLON	-	2 PER FIXED PANEL
M10	CGI-176	FRAME HEAD ANTILOFT & PAD PILE	WOOL/NYLON	SULLIVAN	1 PER INTERLOCK/ASTR.
M11	W23201NG	PILE WITH CENTER FIN	WOOL	ULTRAFAB OR EQUIV.	-
M12	CGI-177	PANEL TOP & BOTTOM DUST PILE	WOOL/PVC	SULLIVAN	-
M13	1A-51-PRS-150-C2SS	TANDEM ROLLER	ST/ST	AMESBURY	2 PER PANEL
M14	SGD-500	DUAL MORTISE LOCK	ST/ST	SULLIVAN	ATTACHED TO SGD-503
M14A	PS01-0036-117	DUAL MORTISE LOCK	ST/ST	INTERLOCKS	ATTACHED TO M16A
M15	SGD-507	KEEPER	ZINC	SULLIVAN	INST. W/ 2 #10X3/4" FH
M15A	SGD-507N	KEEPER	ZINC	INTERLOCKS	INST. W/ 2 #10X3/4" PH
M16	SGD-503	RECESSED ADAPTOR	ZINC	SULLIVAN	INST. W/ 2 #10X3/4" FH
M16A	PS01-0036-117	RECESSED ADAPTOR	ZINC	INTERLOCKS	INST. W/ 2 #10X3/4" FH
M17	SGD-5500	HANDLE SET	ZINC	SULLIVAN/INTERLOCKS	-
M18	SM2300WH	HANDLE SET OPTIONAL	ZINC	SULLIVAN	-
M19	SCS2000 SILPRUF	SEALANT	SILICONE	GE	-
M20	CGI-177	PANEL TOP & BOTTOM DUST PILE	WOOL	SULLIVAN OR EQUIV.	4 PER PANEL
M21	CGI-174	HEAD AND SILL SMALL PILE PAD	WOOL	ULTRAFAB OR EQUIV.	1 PER INTERLOCK/ASTRAGAL
M22	CGI-175	SILL INTERLOCK PILE PAD	WOOL	ULTRAFAB OR EQUIV.	-
S2	-	#10 X 1 1/4" LG. PH. PH. SMS. ST/ST. ASSEMBLY SCREW	-	-	2 OR 3 PER CORNER



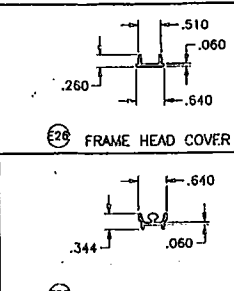
E26 FRAME HEAD COVER



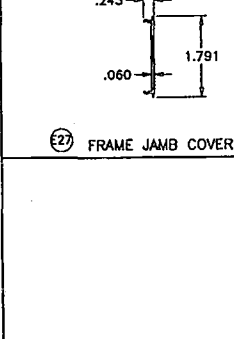
E2 FRAME JAMB (2 TRACK)



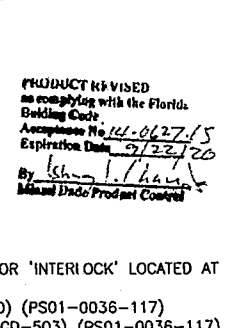
E12 FRAME JAMB (3 TRACK)



E26 FRAME HEAD COVER



E25 FRAME SILL COVER



E27 FRAME JAMB COVER

PRODUCT RE-DESIGNED
in compliance with the Florida
Building Code
Acceptance No. 14-0627-15
Expiration Date 9/22/20
By: [Signature]
Manual Draft/ Product Control

LOCK:
DUAL LOCK SYSTEM BY 'SULLIVAN' OR 'INTERLOCK' LOCATED AT MAIN STILE AT 40" FROM BOTTOM
SS MORTISE LOCK (PART #SGD-500) (PS01-0036-117)
ZINC RECESSED ADAPTOR (PART #SGD-503) (PS01-0036-117)
ZINC HANDLE SET (PART #SM5500) & (PART #SM2300WH)
ZINC KEEPER (PART #SGD-507) (PART #SGD-507N)

Engr. JAVAD AHMAD
CML
FLA. PE # 70592,
CAN. 3539
FEB 2-5 2015

AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 262-6978
FAX (305) 264-8100
COMP-ANL W10-3106

SERIES SENTINEL 150 ALUM SLIDING GLASS DOOR (L.M.I.)

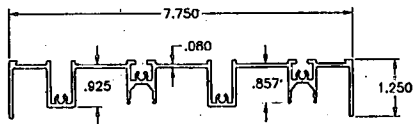
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 993-6590 FAX (305) 993-6592

Revisions:

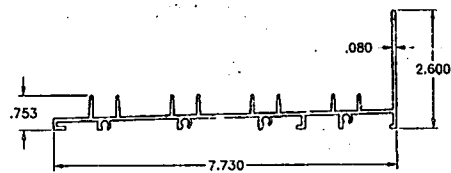
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3	11.12.14	REV PER COMMENTS	
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Order: 05-20-10
Scale: 3/8" = 1"
Dr. by: [Signature]
Chk. by: [Signature]

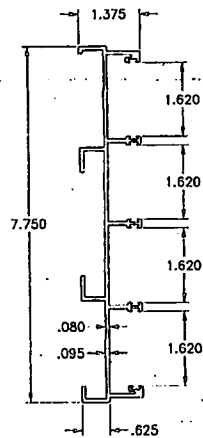
drawing no.
W10-31
sheet 15 of 16



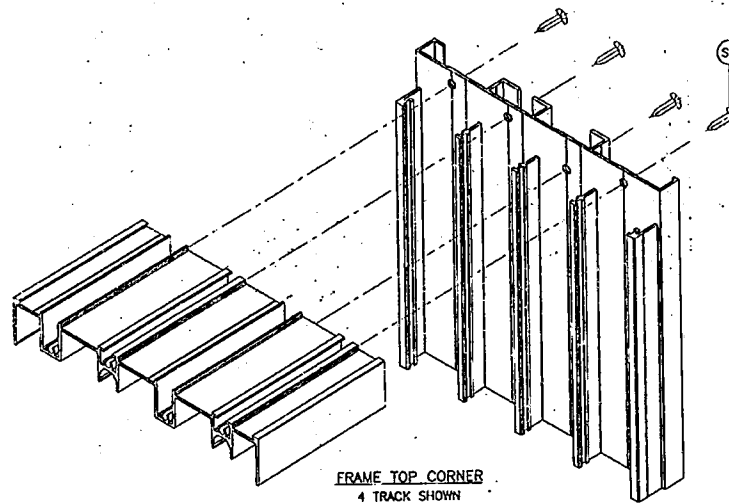
(E28) FRAME HEAD (4 TRACK)



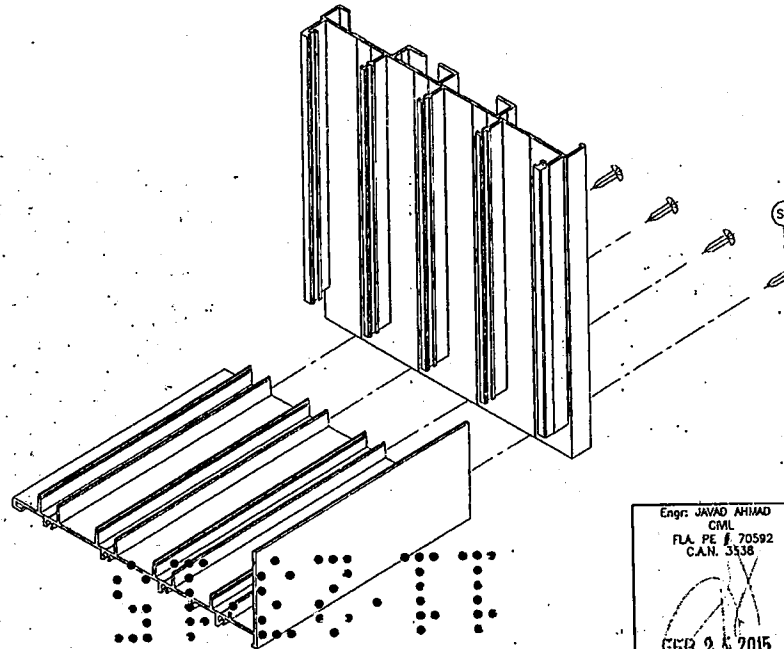
(E29) FRAME SILL (4 TRACK)



(E30) FRAME JAMB (4 TRACK)



FRAME TOP CORNER
4 TRACK SHOWN



FRAME BOTTOM CORNER
4 TRACK SHOWN

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0677-15
Expiration Date 9/22/20
By: [Signature]
Miami Dade Product Control

Engr: JAWAD AHMAD
CML
FLA. PE # 70592
C.A.N. 9338

FEB 2 5 2015

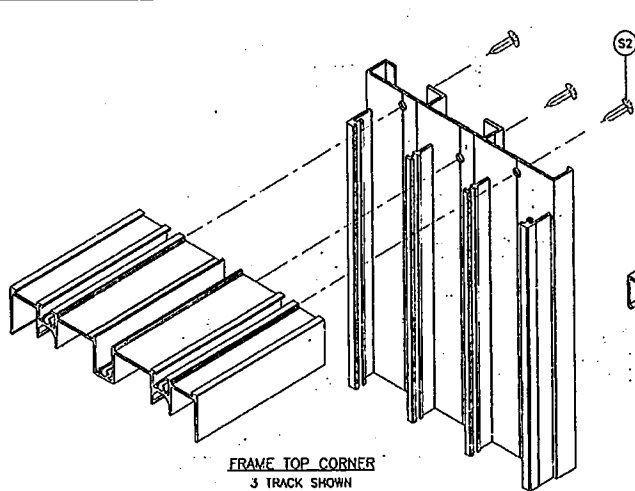
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-0978
COMP-ANI W10-31CGI

SERIES SENTINEL 150 ALUM SLIDING GLASS DOOR (L.M.I.)
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL. (305) 593-6590 FAX. (305) 593-6592

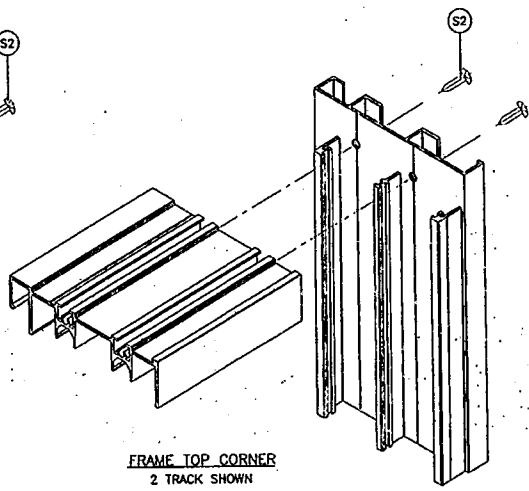
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	J	11.12.14		NO CHANGE THIS SHEET
	K	02.03.15		NO CHANGE THIS SHEET

date: 05-20-10
scale: 3/8" = 1"
dr. by:
chk. by:

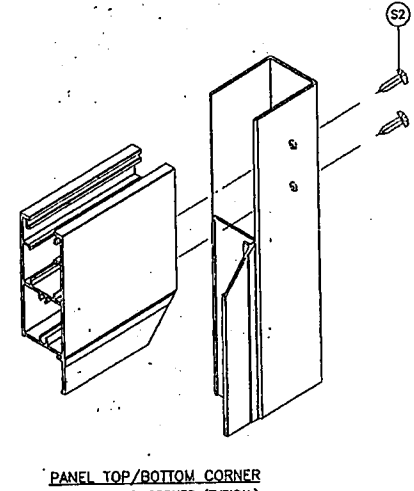
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W10-31
sheet 15.1 of 16



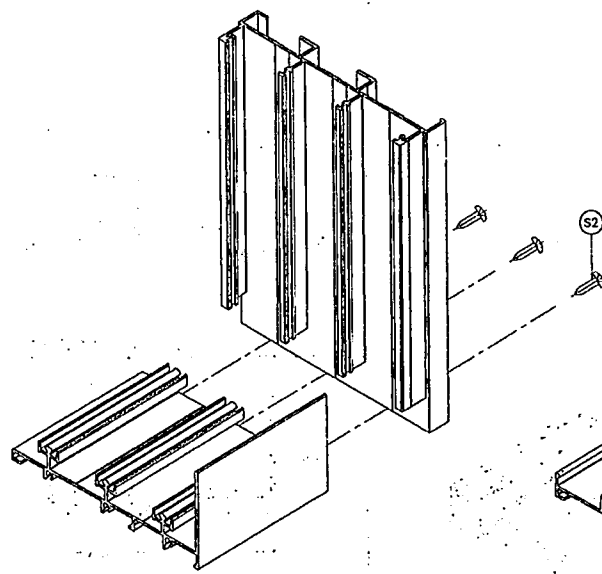
FRAME TOP CORNER
3 TRACK SHOWN



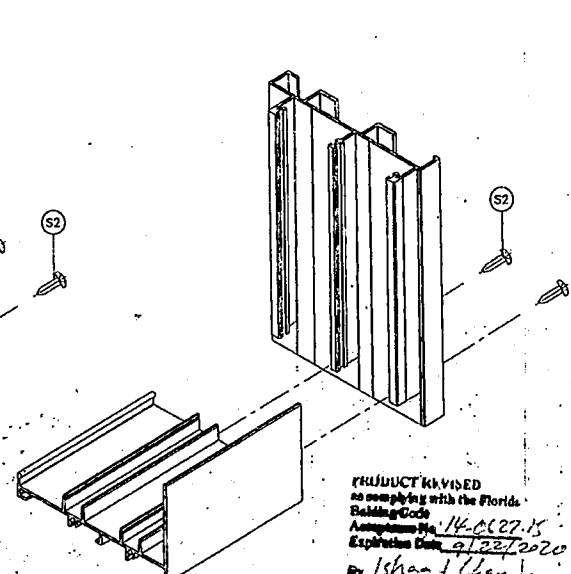
FRAME TOP CORNER
2 TRACK SHOWN



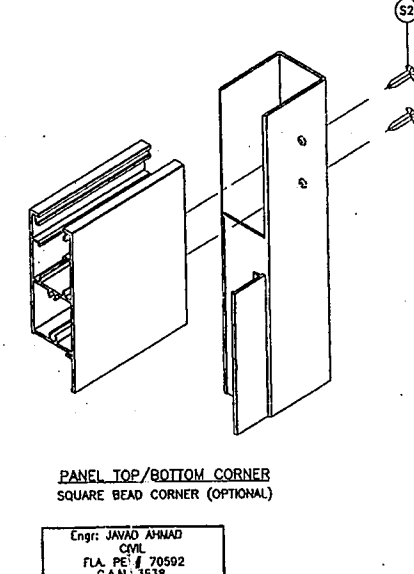
PANEL TOP/BOTTOM CORNER
MITERED BEAD CORNER (TYPICAL)



FRAME BOTTOM CORNER
3 TRACK SHOWN



FRAME BOTTOM CORNER
2 TRACK SHOWN



PANEL TOP/BOTTOM CORNER
SQUARE BEAD CORNER (OPTIONAL)

PRODUCT REVISED
to comply with the Florida
Building Code
Amendment No. 14-0127.15
Expiration Date 9/22/2020
By: *Isham L. Hanks*
Product Development Group

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
CAN. 3538
FEB 25 2015

a f c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL: (305) 264-8100 FAX: (305) 262-6978
COMP - AMI W-10-31CG

SERIES SENTINEL 150 ALUM SLIDING GLASS DOOR (L.M.I.)

CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL: (305) 593-6590 FAX: (305) 593-6592

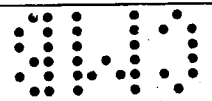
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3	11.12.14		NO CHANGE THIS SHEET
4	02.03.15		NO CHANGE THIS SHEET

date: 05-20-10
scale: 3/8" = 1"

drawn by: *[Signature]*
chk. by:

drawing no.
W10-31

sheet 16 of 16



31600909

**MIAMI-DADE
COUNTY**

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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

CGI Windows & Doors

10100 NW 25th Street

Miami, FL 33172

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 "Sentinel" Unclipped, Extruded Aluminum Tube Mullion - L.M.I.

APPROVAL DOCUMENT: Drawing No. M10-01, titled "Series Sentinel Unclipped Alum. Mullions", sheets 1 through 7 of 7, dated 04/02/10, with revision C dated 02/25/15, 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: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/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 and renews NOA# 11-1031.07 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 Manuel Perez, P.E.



Handwritten signature
2/27/15

NOA No. 14-1103.09
Expiration Date: September 22, 2020
Approval Date: March 05, 2015
Page 1

CGI Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No M10-01, titled "Series Sentinel Unclipped Alum. Mullions", sheets 1 through 7 of 7, dated 04/02/10, with revision C dated 02/25/15, 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
along with marked-up drawings and installation diagram of an aluminum tube mullion, prepared by Hurricane test Laboratory, LLC, Test Report No. HTL-0080-0303-11, dated 03/24/11, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No.11-0330.22)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 203-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum tube mullion, prepared by Hurricane test Laboratory, LLC, Test Report No. HTL-0080-0301-10, dated 03/30/10, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No.10-0510.14)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC 5th Edition (2014), dated 09/23/14, 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. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 14-1103.09
Expiration Date: September 22, 2020
Approval Date: March 05, 2015

CGI Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated October 4, 2014, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Laboratory compliance letter for Test Report No. **HTL-0080-0303-11**, issued by Hurricane Test Laboratory, LLC, dated March 24, 2011, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No.11-0330.22)
3. Laboratory compliance letter for Test Report No. **HTL-0080-0301-10**, issued by Hurricane Test Laboratory, LLC, dated March 30, 2010, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 10-0510.14)
4. Proposal No. **09-1942** issued by BCCO, dated November 05, 2009, signed by Manuel Perez, P.E.
(Submitted under NOA No.10-0510.14)

G. OTHERS

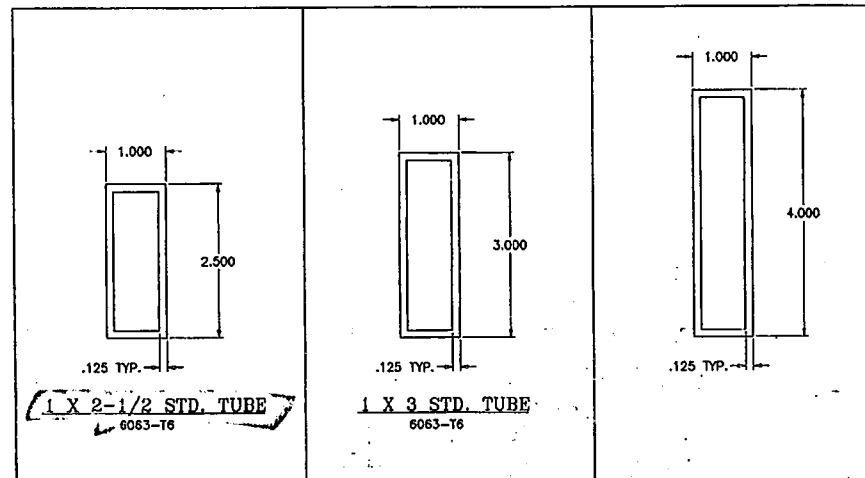
1. Notice of Acceptance No. **11-1031.07**, issued to CGI Windows and Doors for their Series "Sentinel" Unclipped Extruded Aluminum Tube Mullion - L.M.I. approved on 01/12/12 and expiring on 09/22/15.


Manuel Perez, P.E.
Product Control Examiner

NOA No. 14-1103.09

Expiration Date: September 22, 2020

Approval Date: March 05, 2015



SERIES SENTINEL UNCLIPPED ALUMINUM MULLIONS **WINDOW FRAME MEMBER INCLUDED IN PROPERTIES**

THESE MULLIONS TO BE USED WITH
 SERIES 130 SENTINEL FIXED WINDOW
 SERIES 110 SENTINEL SINGLE HUNG WINDOW
 SERIES 120 SENTINEL HORIZ. SLIDING WINDOW
 FOR WINDOWS IMPACT AND LOAD RATINGS SEE
 CORRESPONDING NOA'S.
 LOWER DESIGN PRESSURE FROM WINDOW APPROVALS
 OR MULLION CHARTS WILL APPLY TO ENTIRE SYSTEM.

NOTES:

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

ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE
 APPLICABLE BUILDING CODE REQUIREMENTS I.E: WIND LOAD, WATER
 INFILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS ETC.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER
 LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, EMBEDMENT
 TO BASE MATERIAL SHALL BE BEYOND WALL COVERING (STUCCO, TILE ETC.).

ANCHORING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS
 ARE NOT PART OF THIS APPROVAL.

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

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

THESE MULLIONS ARE RATED FOR LARGE & SMALL MISSILE IMPACT

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1 DETERMINE DESIGN LOAD REQUIRED PER ASCE 7
 FOR PARTICULAR OPENING.

STEP 2 USE CONNECTION OF WINDOWS TO MULLION AS PER
 PRODUCT APPROVAL.

STEP 3 USING CHARTS ON SHEETS 3 THRU 5 SELECT MULLION TYPE
 AND ANCHOR QUANTITIES WITH DESIGN RATING MORE THAN
 THE DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 4 CAPACITY OF SELECTED COWS WINDOWS AND MULLION
 MUST EQUAL OR EXCEED REQUIRED LOADS.

Engr: JAWAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538

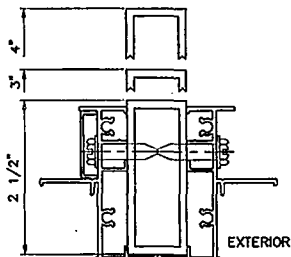
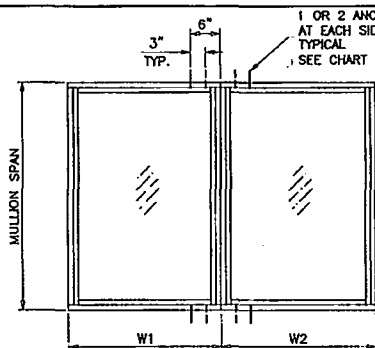
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 14-1103 09
 Expiration Date Sept 21, 2020
 By: *Manuel Perez*
 Miami Dade Product Control

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 12335 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-8100 FAX (305) 262-5978
 MULLION M10-01CG

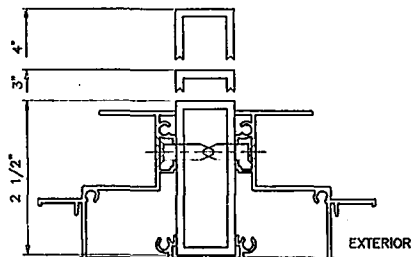
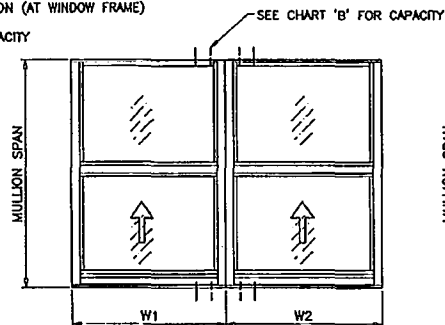
SERIES SENTINEL UNCLIPPED ALUM MULLIONS
CGI WINDOWS & DOORS
 10100 N.W. 25TH STREET
 MIAMI, FL. 33172
 TEL (305) 593-6590 FAX (305) 593-6592

REVISIONS:	NO.	DATE	BY	DESCRIPTION
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	B	09/28/14		UPDATES TO 2014 FBC
	C	02/25/15		NO CHANGE THIS SHEET

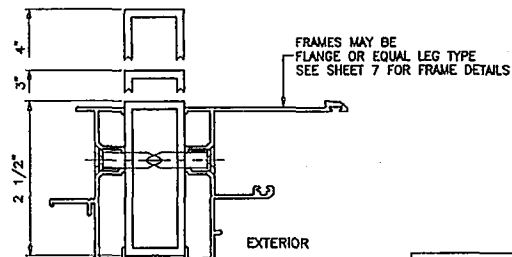
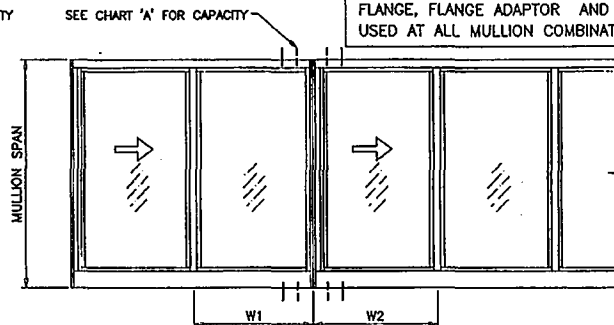
Date: 04-02-10
 Scale: 1/2" = 1"
 drawing no.
M10-01
 sheet 1 of 7



FIXED TO FIXED

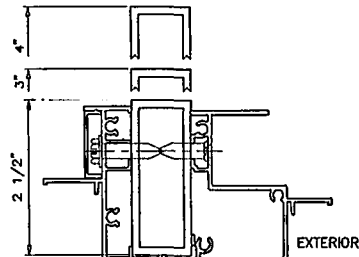
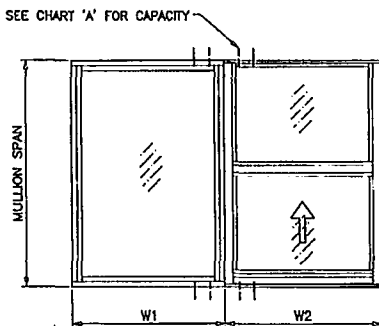


S.H. TO S.H.

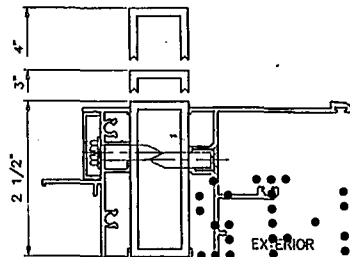
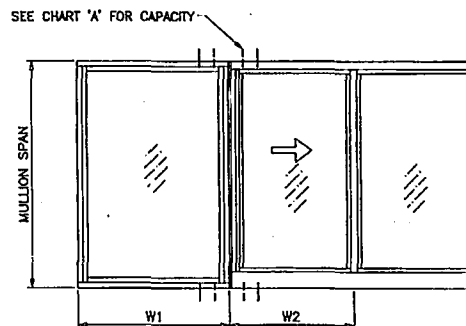


H.R. TO H.R.

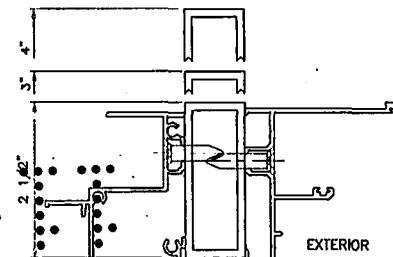
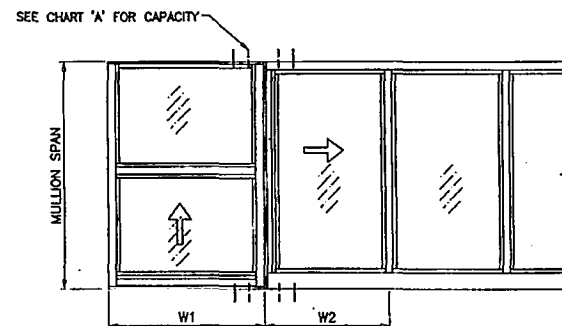
$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



FIXED TO S.I.L



FIXED TO H.R.



S.H. TO H.R.

FLANGE, FLANGE ADAPTOR AND FLUSH FRAMES CAN BE USED AT ALL MULLION COMBINATIONS.

PRODUCT REVISED
is complying with the Florida
Building Code
Acceptance No. 14-1103.09
Expiration Date Sept. 22, 2020
By *Manuel J. Diaz*
Miami Dade Product Control

Engr: JAWAD AHMAD
CMA
FLA. PE # 70592
C.A.N. 5538

FEB 25 2015

AL-FAROOQ CORPORATION
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12335 S.W. 87 AVE
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MULLION W10-0103

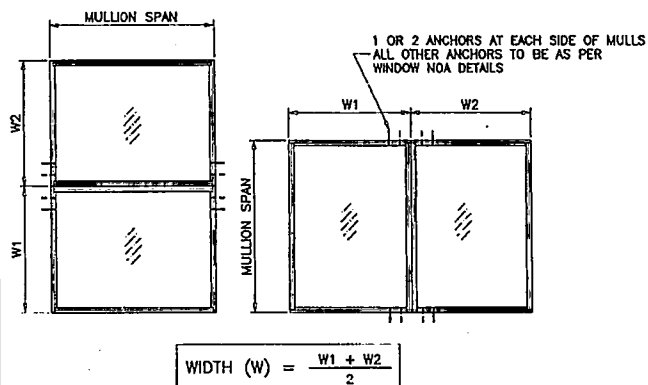
SERIES SENTINEL UNCLIPPED ALUM MULLIONS
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

REV.	DATE	DESCRIPTION
1	01.01.01	NO CHANGE THIS SHEET
2	01.01.01	NO CHANGE THIS SHEET
3	01.01.01	NO CHANGE THIS SHEET

Order: 04-02-10
Scale: 1/2" = 1"
Dr. by: *Manuel J. Diaz*
Chk. by: *Manuel J. Diaz*
drawing no.
M10-01
sheet 2 of 7

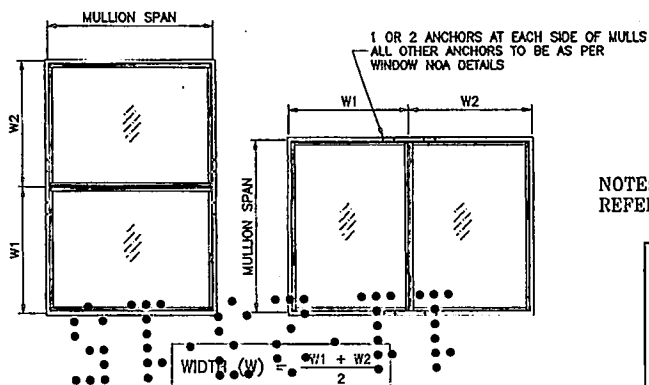
CHART 'A' DESIGN LOAD CAPACITY - PSF							
MULLION WITH ANY COMBINATION OF SERIES SENTINEL FIXED, HORIZONTAL SLIDING OR SINGLE HUNG WINDOWS							
WINDOW DIMS.		1 ANCHOR AT EACH SIDE OF MULLION			2 ANCHORS AT EACH SIDE OF MULLION		
WIDTH (W)	MULL SPAN	MULL TUBE 1 X 2-1/2	MULL TUBE 1 X 3	MULL TUBE 1 X 4	MULL TUBE 1 X 2-1/2	MULL TUBE 1 X 3	MULL TUBE 1 X 4
19-1/8"	50-5/8"	90.0	90.0	90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0	90.0	90.0
49"		85.0	85.0	85.0	90.0	90.0	90.0
53-1/8"	63"	85.0	85.0	85.0	90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0	90.0	90.0
26-1/2"		82.6	82.6	82.6	90.0	90.0	90.0
37"		66.1	66.1	66.1	82.5	90.0	90.0
49"	76"	57.7	57.7	57.7	70.0	90.0	90.0
53-1/8"		56.2	56.2	56.2	67.8	90.0	90.0
19-1/8"		80.7	85.7	85.7	80.7	90.0	90.0
26-1/2"		59.6	65.5	65.5	59.6	79.5	90.0
37"	85"	44.8	51.2	51.2	44.8	59.8	90.0
49"		36.6	43.1	43.1	36.6	48.8	85.8
53-1/8"		34.9	41.5	41.5	34.9	46.5	81.7
19-1/8"		57.4	75.5	75.5	57.4	78.5	90.0
26-1/2"	90"	42.2	56.3	57.3	42.2	56.3	90.0
37"		31.4	41.9	44.2	31.4	41.9	73.6
49"		25.2	33.6	36.7	25.2	33.6	59.1
53-1/8"		23.9	31.8	35.1	23.9	31.8	55.9
19-1/8"	96"	48.2	64.3	70.8	48.2	64.3	90.0
26-1/2"		35.4	47.2	53.5	35.4	47.2	82.9
37"		26.2	35.0	41.2	26.2	35.0	61.4
49"		20.9	27.9	33.9	20.9	27.9	49.0
19-1/8"	96"	39.6	52.9	65.9	39.6	52.9	90.0
26-1/2"		29.0	38.7	49.6	29.0	38.7	68.0
37"		21.4	28.6	38.0	21.4	28.6	50.2

NOTE:
MULLIONS RATED IN THESE CHARTS WITH ANY COMBINATION
OF FIXED, SINGLE HUNG OR HORIZ. SLIDING WINDOWS
MAY BE ORIENTED VERTICALLY OR HORIZONTALLY.
(INTERPOLATION BETWEEN WIDTHS ALLOWED)



FLANGE OR FLUSH FRAMES

CHART 'A' DESIGN LOAD CAPACITY - PSF							
MULLION WITH ANY COMBINATION OF SERIES SENTINEL FIXED, HORIZONTAL SLIDING OR SINGLE HUNG WINDOWS							
WINDOW DIMS.		1 ANCHOR AT EACH SIDE OF MULLION			2 ANCHORS AT EACH SIDE OF MULLION		
WIDTH (W)	MULL SPAN	MULL TUBE 1 X 2-1/2	MULL TUBE 1 X 3	MULL TUBE 1 X 4	MULL TUBE 1 X 2-1/2	MULL TUBE 1 X 3	MULL TUBE 1 X 4
24"	48"	90.0	90.0	90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0	90.0
48"		90.0	90.0	90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0	90.0	90.0
60"	60"	90.0	90.0	90.0	90.0	90.0	90.0
24"		90.0	90.0	90.0	90.0	90.0	90.0
30"		80.6	80.6	80.6	90.0	90.0	90.0
36"		72.0	72.0	72.0	90.0	90.0	90.0
42"		68.5	68.5	68.5	89.7	90.0	90.0
48"		63.0	63.0	63.0	84.1	90.0	90.0
54"	72"	61.1	61.1	61.1	80.9	90.0	90.0
60"		60.5	60.5	60.5	79.8	90.0	90.0
24"		75.6	75.6	75.6	77.1	90.0	90.0
30"		63.3	63.7	63.7	63.3	84.4	90.0
36"		54.5	56.0	56.0	54.5	72.7	90.0
42"		48.6	50.8	50.8	48.6	64.8	90.0
48"	84"	44.5	47.3	47.3	44.5	59.4	90.0
54"		41.7	44.8	44.8	41.7	55.7	90.0
60"		39.9	43.2	43.2	39.9	53.3	90.0
24"		47.9	63.0	63.0	47.9	64.0	90.0
30"		39.1	52.1	52.6	39.1	52.1	90.0
36"		33.3	44.5	45.8	33.3	44.5	78.1
42"	96"	29.4	39.2	41.1	29.4	39.2	68.9
48"		26.8	35.5	37.8	26.8	35.5	62.3
54"		24.6	32.8	35.4	24.6	32.8	57.6
24"		31.9	42.5	54.0	31.9	42.5	74.7
30"		25.9	34.5	44.8	25.9	34.5	60.6
36"		21.9	29.3	38.8	21.9	29.3	51.4
42"	96"	-	25.6	34.6	-	25.6	45.0
48"		-	23.0	31.5	-	23.0	40.4



FIN FRAMES

NOTE:
REFER TO PAGE 2 FOR OTHER COMBINATIONS.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3638

FEB 25 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-1103.09
Expiration Date Sept. 22, 2020
By: *Wahneet Lee*
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
MULLION M10-0106

SERIES SENTINEL UNCLIPPED ALUM MULLIONS
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

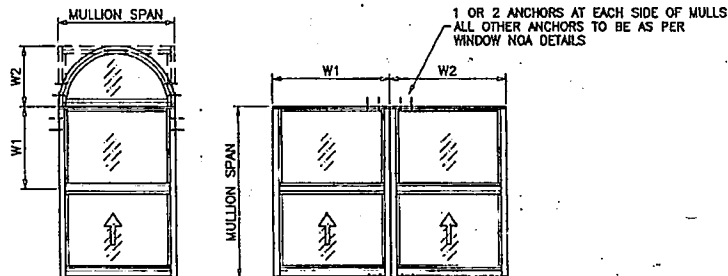
Revisions:
NO. DATE BY DESCRIPTION
A 10.10.11 NO CHANGE THIS SHEET
B 09.29.14 NO CHANGE THIS SHEET
C 02.23.15 NO CHANGE THIS SHEET

date: 04-02-10
scale: 1/2" = 1"
dr. by: *Wahneet Lee*
chk. by: *Wahneet Lee*

drawing no.
M10-01
sheet 3 of 7

CHART 'R' DESIGN LOAD CAPACITY - PSF MULLION WITH COMBINATION OF SERIES SENTINEL SINGLE HUNG WINDOWS OR FIXED TRANSOM							
WINDOW DIMS.		1 ANCHOR AT EACH SIDE OF MULLION			2 ANCHORS AT EACH SIDE OF MULLION		
WIDTH (W)	MULL SPAN	MULL TUBE 1 X 2-1/2	MULL TUBE 1 X 3	MULL TUBE 1 X 4	MULL TUBE 1 X 2-1/2	MULL TUBE 1 X 3	MULL TUBE 1 X 4
19-1/8"	50-5/8"	90.0	90.0	90.0	90.0	90.0	90.0
26-1/2"		90.0	90.0	90.0	90.0	90.0	90.0
37"		90.0	90.0	90.0	90.0	90.0	90.0
49"		85.0	85.0	85.0	90.0	90.0	90.0
53-1/8"	63"	85.0	85.0	85.0	90.0	90.0	90.0
19-1/8"		90.0	90.0	90.0	90.0	90.0	90.0
26-1/2"		82.6	82.6	82.6	90.0	90.0	90.0
37"		66.1	66.1	66.1	90.0	90.0	90.0
49"	76"	57.7	57.7	57.7	90.0	90.0	90.0
53-1/8"		56.2	56.2	56.2	88.5	90.0	90.0
19-1/8"		85.7	85.7	85.7	90.0	90.0	90.0
26-1/2"		65.5	65.5	65.5	77.7	90.0	90.0
37"	85"	51.2	51.2	51.2	58.5	73.4	90.0
49"		43.1	43.1	43.1	47.7	60.0	86.3
53-1/8"		41.5	41.5	41.5	45.5	57.2	82.9
19-1/8"	90"	74.8	75.5	75.5	74.8	90.0	90.0
26-1/2"		55.0	57.3	57.3	55.0	89.1	90.0
37"		40.9	44.2	44.2	40.9	51.4	83.1
49"		32.9	36.7	36.7	32.9	41.3	66.8
53-1/8"	96"	31.1	35.1	35.1	31.1	39.1	63.2
19-1/8"		62.9	70.8	70.8	62.9	72.0	90.0
26-1/2"		46.2	53.5	53.5	46.2	58.0	90.0
37"		34.2	41.2	41.2	34.2	43.0	69.4
49"	96"	27.3	33.9	33.9	27.3	34.3	55.4
19-1/8"		51.7	65.0	65.0	51.7	65.0	90.0
26-1/2"		37.9	47.6	47.6	37.9	47.6	76.9
37"		27.9	35.1	38.0	27.9	35.1	56.7

NOTE:
MULLIONS RATED IN THESE CHARTS WITH SINGLE HUNG FRAMES
MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN BELOW.
(INTERPOLATION BETWEEN WIDTHS ALLOWED)



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

CHART 'R' DESIGN LOAD CAPACITY - PSF MULLION WITH COMBINATION OF SERIES SENTINEL SINGLE HUNG WINDOWS OR FIXED TRANSOM							
WINDOW DIMS.		1 ANCHOR AT EACH SIDE OF MULLION			2 ANCHORS AT EACH SIDE OF MULLION		
WIDTH (W)	MULL SPAN	MULL TUBE 1 X 2-1/2	MULL TUBE 1 X 3	MULL TUBE 1 X 4	MULL TUBE 1 X 2-1/2	MULL TUBE 1 X 3	MULL TUBE 1 X 4
24"	48"	90.0	90.0	90.0	90.0	90.0	90.0
30"		90.0	90.0	90.0	90.0	90.0	90.0
36"		90.0	90.0	90.0	90.0	90.0	90.0
42"		90.0	90.0	90.0	90.0	90.0	90.0
48"	60"	90.0	90.0	90.0	90.0	90.0	90.0
54"		90.0	90.0	90.0	90.0	90.0	90.0
60"		90.0	90.0	90.0	90.0	90.0	90.0
24"	60"	90.0	90.0	90.0	90.0	90.0	90.0
30"		80.6	80.6	80.6	90.0	90.0	90.0
36"		72.0	72.0	72.0	90.0	90.0	90.0
42"		66.5	66.5	66.5	90.0	90.0	90.0
48"	72"	63.0	63.0	63.0	90.0	90.0	90.0
54"		61.1	61.1	61.1	90.0	90.0	90.0
60"		60.5	60.5	60.5	90.0	90.0	90.0
24"	72"	75.6	75.6	75.6	90.0	90.0	90.0
30"		63.7	63.7	63.7	82.5	90.0	90.0
36"		56.0	56.0	56.0	71.1	89.3	90.0
42"		50.6	50.6	50.6	63.4	79.6	90.0
48"	84"	47.3	47.3	47.3	58.1	72.9	90.0
54"		44.8	44.8	44.8	54.4	68.4	89.6
60"		43.2	43.2	43.2	52.1	65.4	86.4
24"	84"	62.6	63.0	63.0	62.6	76.5	90.0
30"		51.0	52.6	52.6	51.0	64.1	90.0
36"		43.5	45.8	45.8	43.5	54.6	88.3
42"		38.4	41.1	41.1	38.4	48.2	77.9
48"	96"	34.7	37.8	37.8	34.7	43.6	70.4
54"		32.1	35.4	35.4	32.1	40.3	65.1
60"		41.6	52.2	54.0	41.6	52.2	84.4
24"	96"	33.7	42.4	44.8	33.7	42.4	68.5
30"		28.6	36.0	38.8	28.6	36.0	58.1
36"		25.1	31.5	34.6	25.1	31.5	50.9
42"		22.5	28.2	31.5	22.5	28.2	45.6

SENTINEL

0400

Engr: JAWAD AHMAD
CML
FLA. PE # 70592
C.A.N. 3536
FEB 25 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-1103.09
Expiration Date 04/12/2020
By: [Signature]
Miami/Dade Product Control

a f c

AL-FAROQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-9378
 MULLION W10-010G

SERIES SENTINEL UNCLIPPED ALUM MULLIONS
CGI WINDOWS & DOORS
 10100 N.W. 25TH STREET
 MIAMI, FL 33172
 TEL. (305) 593-6590 FAX. (305) 593-6592

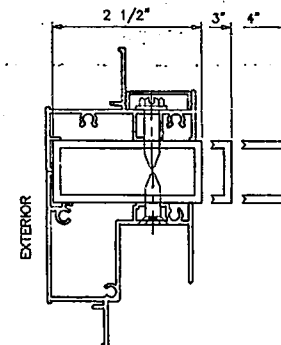
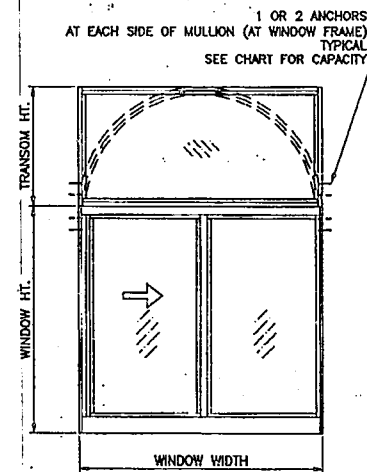
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B	08/28/14		NO CHANGE THIS SHEET
C	10/23/15		NO CHANGE THIS SHEET

date: 04-02-10
 scale: 1/2" = 1"
 dr. by: [Signature]
 ch. by: [Signature]

drawing no.
M10-01
 sheet 4 of 7

CHART 'C' DESIGN LOAD CAPACITY - PSF						
HORIZONTAL MULLION WITH COMBINATION OF SERIES SENTINEL FIXED OVER HORIZ. SLIDING WINDOW						
WINDOW DIMS.		1 ANCHOR AT EACH SIDE OF MULLION		2 ANCHORS AT EACH SIDE OF MULLION		
WINDOW WIDTH	WINDOW HEIGHT	TRANSOM HEIGHT	MULL TUBE 1 X 2-1/2	MULL TUBES 1 X 3 1 X 4	MULL TUBE 1 X 3	MULL TUBE 1 X 4
52-1/8"	25"	12"	90.0	90.0	90.0	90.0
		18"	90.0	90.0	90.0	90.0
		24"	90.0	90.0	90.0	90.0
		30"	90.0	90.0	90.0	90.0
		36"	90.0	90.0	90.0	90.0
73"	25"	42"	90.0	90.0	90.0	90.0
		48"	90.0	90.0	90.0	90.0
		12"	90.0	90.0	90.0	90.0
		18"	90.0	90.0	90.0	90.0
		24"	90.0	90.0	90.0	90.0
52-1/8"	37-3/8"	30"	81.6	81.6	90.0	90.0
		36"	74.9	74.9	90.0	90.0
		42"	69.9	69.9	90.0	90.0
		48"	66.3	66.3	88.9	90.0
		12"	90.0	90.0	90.0	90.0
73"	37-3/8"	18"	90.0	90.0	90.0	90.0
		24"	90.0	90.0	90.0	90.0
		30"	90.0	90.0	90.0	90.0
		36"	90.0	90.0	90.0	90.0
		42"	90.0	90.0	90.0	90.0
36"	49-5/8"	48"	90.0	90.0	90.0	90.0
		12"	90.0	90.0	90.0	90.0
		18"	90.0	90.0	90.0	90.0
		24"	90.0	90.0	90.0	90.0
		30"	90.0	90.0	90.0	90.0
52-1/8"	49-5/8"	36"	85.9	85.9	90.0	90.0
		42"	83.3	83.3	90.0	90.0
		48"	81.9	81.9	90.0	90.0
		12"	79.1	82.8	90.0	90.0
		18"	71.2	73.1	90.0	90.0
73"	49-5/8"	24"	65.0	66.1	83.2	90.0
		30"	60.2	61.0	77.0	90.0
		36"	56.4	57.1	72.1	90.0
		42"	53.4	54.2	68.3	90.0
		48"	51.2	52.0	65.4	90.0

CHART 'C' DESIGN LOAD CAPACITY - PSF						
HORIZONTAL MULLION WITH COMBINATION OF SERIES SENTINEL FIXED OVER HORIZ. SLIDING WINDOW						
WINDOW DIMS.		1 ANCHOR AT EACH SIDE OF MULLION		2 ANCHORS AT EACH SIDE OF MULLION		
WINDOW WIDTH	WINDOW HEIGHT	TRANSOM HEIGHT	MULL TUBE 1 X 2-1/2	MULL TUBES 1 X 3 1 X 4	MULL TUBE 1 X 3	MULL TUBE 1 X 4
36"	62"	12"	90.0	90.0	90.0	90.0
		18"	90.0	90.0	90.0	90.0
		24"	90.0	90.0	90.0	90.0
		30"	90.0	90.0	90.0	90.0
		36"	90.0	90.0	90.0	90.0
52-1/8"	62"	42"	90.0	90.0	90.0	90.0
		48"	90.0	90.0	90.0	90.0
		12"	90.0	90.0	90.0	90.0
		18"	90.0	90.0	90.0	90.0
		24"	84.0	84.0	90.0	90.0
73"	62"	30"	79.3	79.3	90.0	90.0
		36"	76.1	76.1	90.0	90.0
		42"	74.1	74.1	90.0	90.0
		48"	73.0	73.0	90.0	90.0
		12"	66.3	70.6	84.8	90.0
		18"	60.7	63.4	77.6	90.0
		24"	56.2	58.1	71.8	90.0
		30"	52.5	54.1	67.2	90.0
		36"	49.6	51.0	63.4	90.0
		42"	47.3	48.7	60.5	89.3
		48"	45.5	46.9	58.2	86.1



FIXED OVER H.R.

Engr: JAVAD AHMAD
CML
FLA. PE # 70592
CAN. 3538
FEB 26 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-1103.09
Expiration Date Sept. 22, 2020
By: *Manuel P. ...*
Miami Dade Product Control

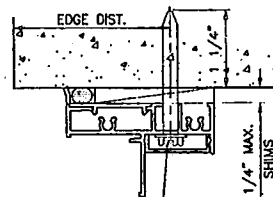
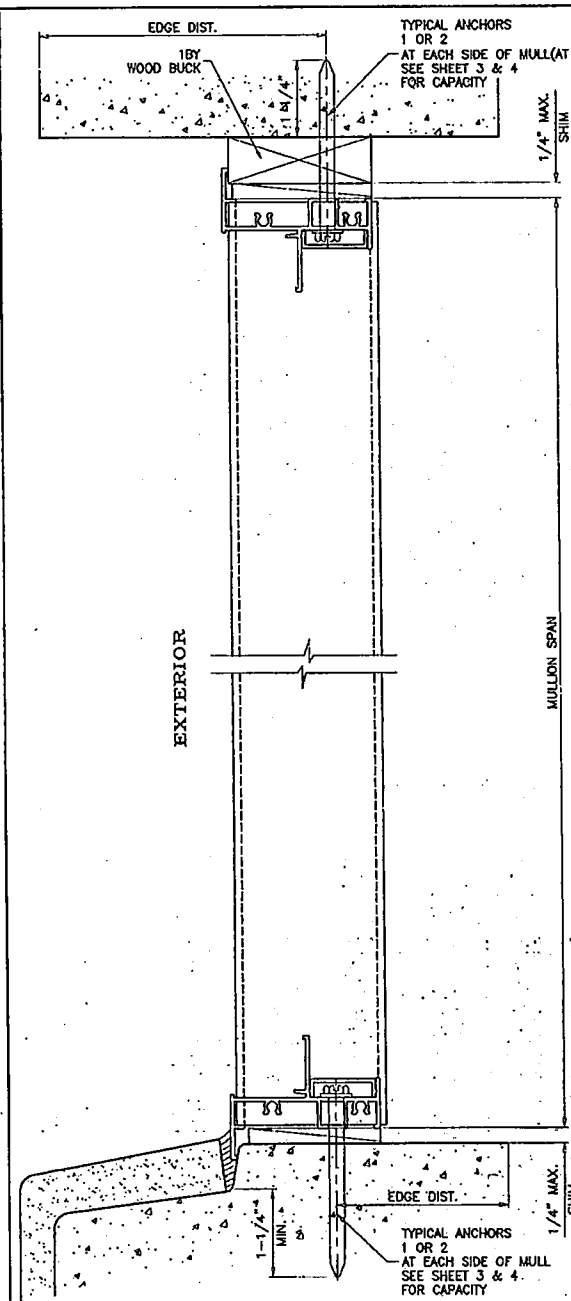
af c
AL-FAROOG CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL: (305) 264-8100 FAX: (305) 262-6978
MULLION WM10-01CG

SERIES SENTINEL UNCLIPPED ALUM. MULLIONS
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL. 33172
TEL: (305) 593-6590 FAX: (305) 593-6592

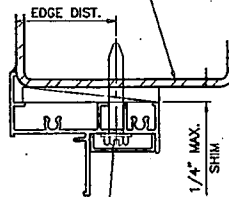
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	B 09.29.14		UPDATED TO 2014 FBC
	C 02.25.15		NO CHANGE THIS SHEET

DATE: 04-02-10	SCALE: 1/2" = 1"
DR: BY:	CHECK BY:

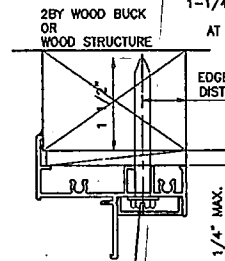
drawing no.
M10-01
sheet 5 of 7



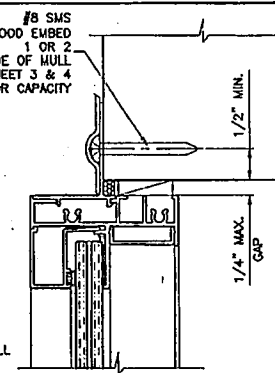
TYPICAL ANCHORS
1 OR 2
AT EACH SIDE OF MULL
SEE SHEET 3 & 4
FOR CAPACITY



TYPICAL ANCHORS
1 OR 2
AT EACH SIDE OF MULL
SEE SHEET 3 & 4
FOR CAPACITY



TYPICAL ANCHORS
1 OR 2
AT EACH SIDE OF MULL
SEE SHEET 3 & 4
FOR CAPACITY



TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. TAPCON BY 'ITW' (Fu=125 KSI, Fy=100 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL)
DIRECTLY INTO CONC. OR MASONRY
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL)

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/SILL/JAMBS)
THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)
DIRECTLY INTO CONC. OR MASONRY
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL)
1-1/4" MIN. EMBED INTO CONC. OR MASONRY (JAMBS)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO METAL STRUCTURES
STEEL : 12 GA. 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

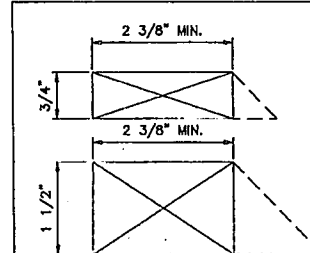
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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

FIXED WINDOW ANCHOR INSTALLATION DETAILS SHOWN.
ALSO APPLICABLE TO SINGLE HUNG AND
HORIZONTAL SLIDING WINDOW FRAMES IN FLANGE,
EQUAL LEG OR FIN FRAME CONFIGURATIONS.

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

FLANGE, FLANGE ADAPTOR AND
FLUSH FRAMES CAN BE USED
AT ALL ANCHORAGE CONDITIONS.



WHEN USED THE MIN. WOOD
BUCK DEPTH SHALL BE 2 3/8\"/>

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-1103.04
Expiration Date Sept 20, 2020
By: *Manuel Pera*
Miami/Dade Product Control

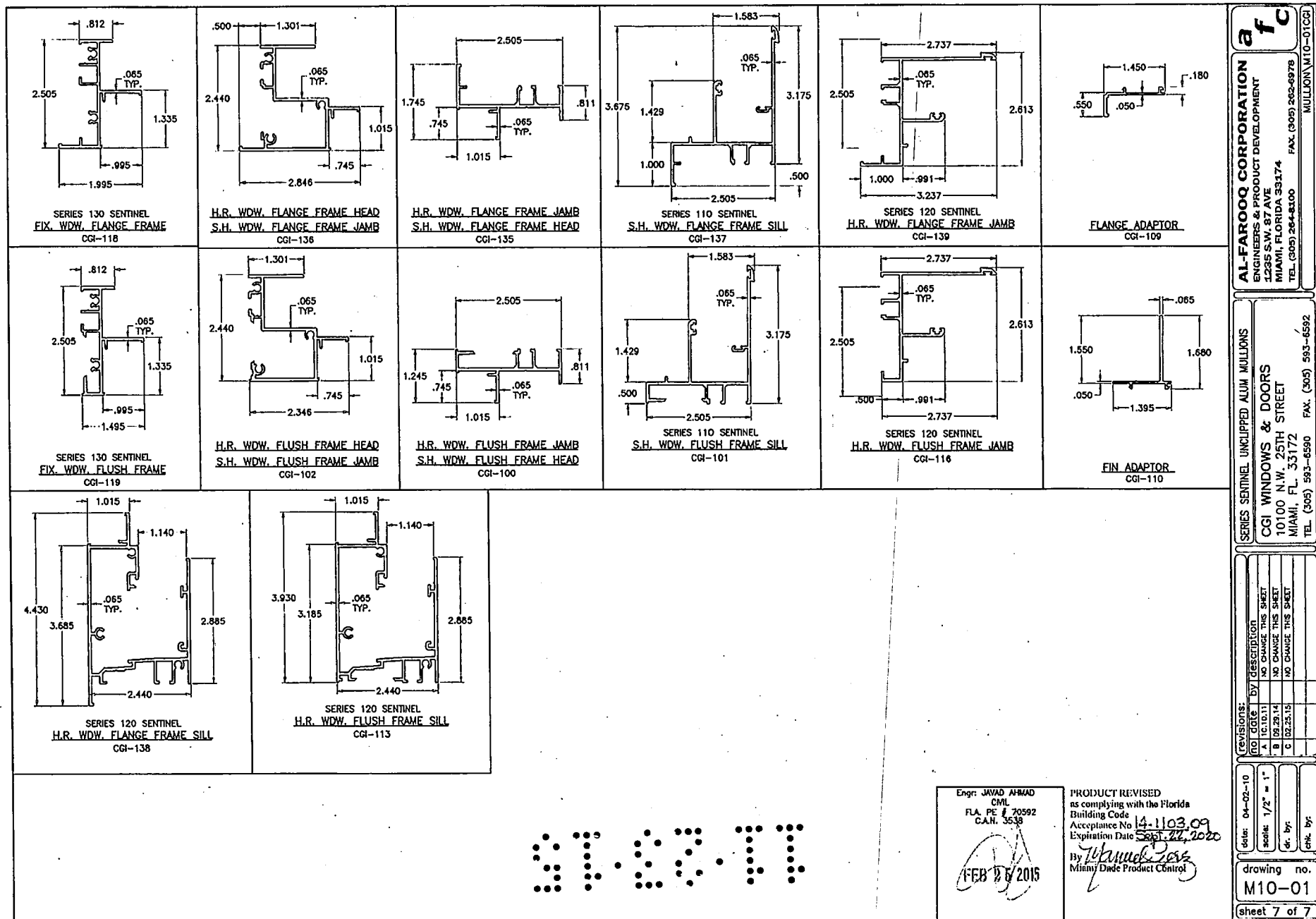
FEB 25 2015

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-4978
MULLION M10-01CGI

SERIES SENTINEL UNCLIPPED ALUM MULLIONS
CGI WINDOWS & DOORS
10100 N.W. 25TH STREET
MIAMI, FL 33172
TEL (305) 593-6560 FAX (305) 593-6592

REVISIONS:	NO.	DATE	BY	DESCRIPTION
	A	03.10.11	AS	CHANGE THIS SHEET
	B	09.23.14	AS	UPDATED TO 2014 FBC
	C	02.23.15	REV.	PER REV COMMENTS

Scale: 1/2" = 1"
Date: 04-02-10
drawing no. M10-01
sheet 6 of 7





**DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**
11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

CGI Windows & Doors
10100 NW 25th Street
Miami, FL 33172

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 Clipped, Extruded Aluminum Tube Mullion - L.M.I.

APPROVAL DOCUMENT: Drawing No. M95-13A, titled "Mullion Elevations and Details", sheets 1, 2, 3, 4, 4.1, and 5 of 5, dated 11/25/95, with revision G dated 07/27/15, prepared by Al-Farooq Corporation, signed, sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Section Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/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# 12-1220.15 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 Manuel Perez, P.E.

**MIAMI-DADE COUNTY
APPROVED**

MP
8/5/15

NOA No. 15-0420.08
Expiration Date: March 28, 2018
Approval Date: August 13, 2015
Page 1

CGI Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

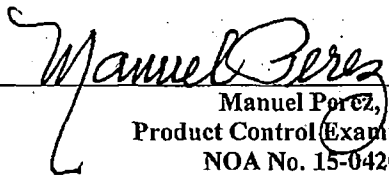
1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 95-0929.39)
2. Drawing No. M95-13A, titled Series "Mullion Elevations and Details", sheets 1, 2, 3, 4, 4.1 and 5 of 5, dated 11/25/95, with revision G dated 07/27/15, prepared by Al-Farooq Corporation, signed, sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 201-94
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) Large Missile Impact Test per FBC, TAS 201-94
along with marked-up drawings and installation diagram of casement windows mullied using a 1"x 2"x 1/8" aluminum tube mullion, prepared by Hurricane Testing Lab, Inc., Test Report No. HTL-0080-0105-08, dated 03/26/08 for Specimens No. 1 and 2, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 08-0331.07)
2. Test reports on: 1) Large Missile Impact Test, Loading per SFBC, PA 201-94
along with marked-up drawings and installation diagram of an aluminum fixed window, prepared by Hurricane Test Laboratory, Inc. Test Report No. HTL-0080-0303-96, dated 03/06/96, signed and sealed by Timothy S. Marshall, P.E.
(Submitted under NOA No. 95-0929.39)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
along with marked-up drawings and installation diagram of fixed windows mullied using a 1"x 2"x 1/8" aluminum tube mullion, prepared by Hurricane Engineering & Testing, Inc., Test Report No. HETI-96-525, dated 02/12/96, signed and sealed by Hector M. Medina, P.E.
(Submitted under NOA No. 95-0929.39)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-5th Edition (2014), dated 04/13/15 and 07/25/15, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with ASTM E1300-09


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0420.08
Expiration Date: March 28, 2018
Approval Date: August 13, 2015

CGI Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC-5th Edition (2014)**, and of no financial interest, dated April 13, 2015, issued by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Laboratory compliance letters for Test Report No. **HTL-0080-0105-08**, specimens 1 and 2, issued by Hurricane Test Laboratory, Inc., dated 03/26/08, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under NOA No. 08-0331.07)
3. Laboratory compliance letters for Test Report No. **HTL-0080-0303-96**, issued by Hurricane Test Laboratory, Inc., dated 03/06/96, signed and sealed by Timothy S. Marshall, P.E.
(Submitted under NOA No. 95-0929.39)
4. Laboratory compliance letters for Test Report No. **HETI-96-525**, issued by Hurricane Engineering & Testing, Inc., dated 02/12/96, signed and sealed by Hector M. Medina, P.E.
(Submitted under OA No. 95-0929.39)

G. OTHERS

1. Notice of Acceptance No. **12-1220.15**, issued to CGI Windows & Doors for their Series "Clipped" Aluminum Tube Mullion – L.M.I., approved on 02/28/13 and expiring on 03/28/18.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 15-0420.08
Expiration Date: March 28, 2018
Approval Date: August 13, 2015

AL-FAROQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL (305) 264-8100 FAX (305) 262-9978

MULLION ELEVATIONS AND DETAILS
 TEL (305) 593-6590 FAX (305) 593-6592
 10100 NW 25 STREET
 MIAMI, FL 33172

CCI WINDOWS & DOORS
 10100 NW 25 STREET
 MIAMI, FL 33172
 TEL (305) 593-6590 FAX (305) 593-6592

REVISIONS:
 NO. DATE BY DESCRIPTION
 1 03.27.08 BY NOTE REV.
 2 04.04.15 BY UPDATED TO 2014 NBC
 3 07.27.15 BY REV. PER REV COMMENTS

drawing no. **M95-13A**
 sheet 1 of 5

date: 11-25-95
 scale: 1/2" = 1"
 dr. by: HAMD
 ch. by:

**MULLIONS CONTAINING TYPICAL GLAZING PRODUCTS
HORIZONTAL OR VERTICAL**

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING

**RECTANGULAR ALUMINUM TUBE MULLIONS
USING MULLION PROPERTIES ONLY**

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (H42).

ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE BUILDING CODE REQUIREMENTS I.E: WIND LOAD, WATER INFILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS ETC.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL COVERING (STUCCO, TILE ETC.).

ANCHORING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

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

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT ARE USED IN THIS PRODUCT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BDC. CODE.

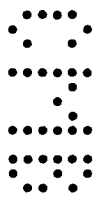
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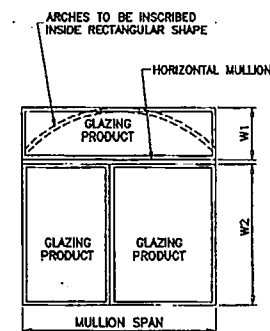
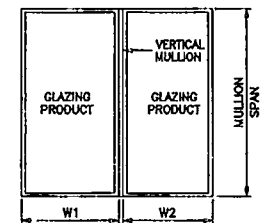
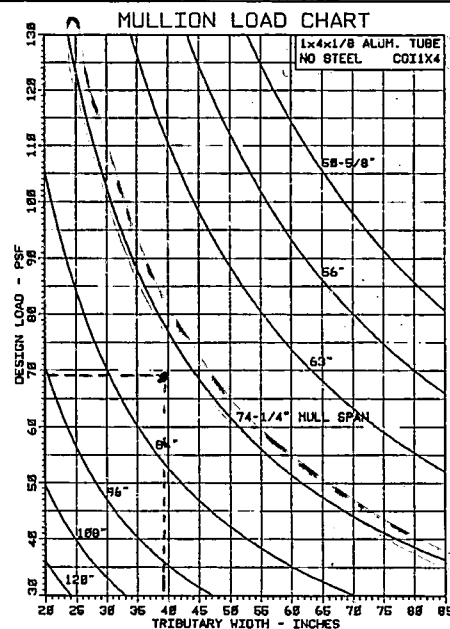
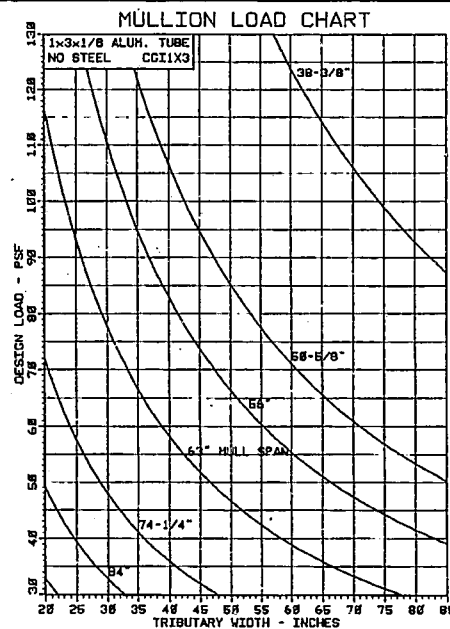
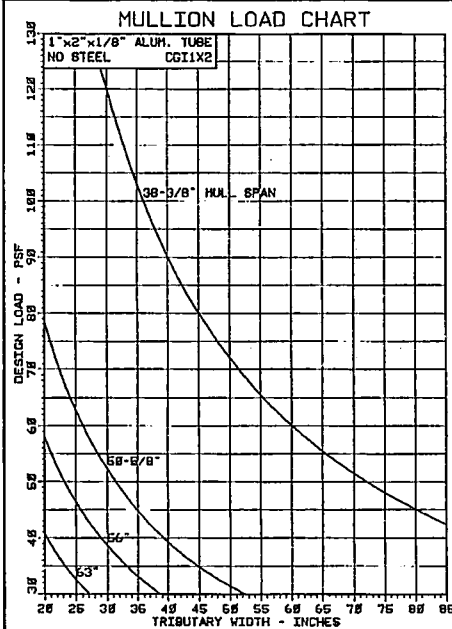
USE CHARTS AND GRAPHS AS FOLLOWS.

- STEP 1 DETERMINE DESIGN LOAD REQUIRED PER ASCE 7 FOR PARTICULAR OPENING.
- STEP 2 USE DUNE COUNTRY APPROVED GLAZING PRODUCTS MEETING ABOVE LOAD REQUIREMENTS.
- STEP 3 USE CONNECTION TO MULLION AS PER PRODUCT APPROVAL.
- STEP 4 USING GRAPHS ON SHEET 2, SELECT MULLION SIZE WITH DESIGN LOAD MORE THAN DESIGN LOAD SPECIFIED IN STEP 3.
- STEP 5 USING ANCHOR TYPES ON SHEETS 4, 5, AND ANCHOR GRAPHS ON SHEET 3, SELECT ANCHOR TYPE WITH DESIGN RATING MORE THAN THE DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

EXPORT: JAWAD AHMAD
 CIVIL
 P.E. # 70992
 C.A.A. # 3338
 JUL 20 2015

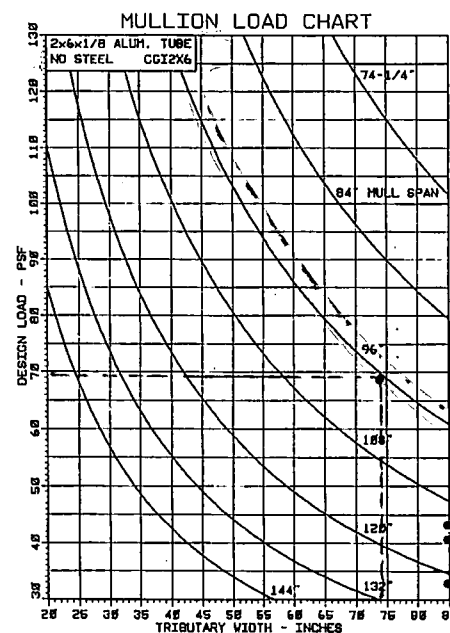
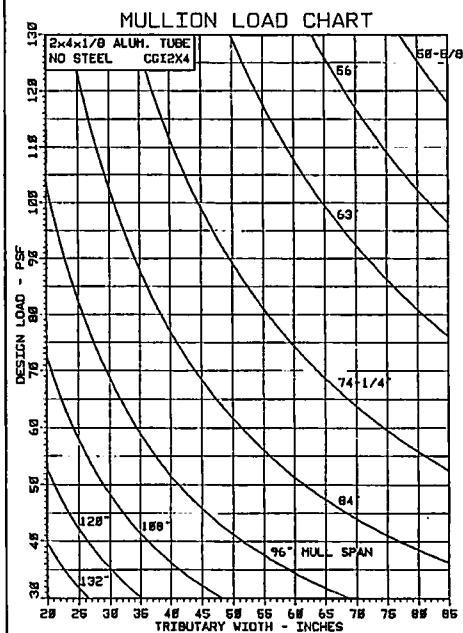
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 15-0420-08
 Expiration Date: 12/31/2018
 By: *Manuel J. Jara*
 Miami/Dade Product Control





TYPICAL MULLION ARRANGEMENTS

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



NOTE:
MULLIONS RATED IN THESE CHARTS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY.
(INTERPOLATION BETWEEN WIDTHS ALLOWED)

Engr: JAVAD AHMAD
CIVIL
FLA. REG. # 70592
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0420.08
Expiration Date March 28, 2018
By *Manuel J. Perez*
Miami Dade Product Control

JUL 28 2015

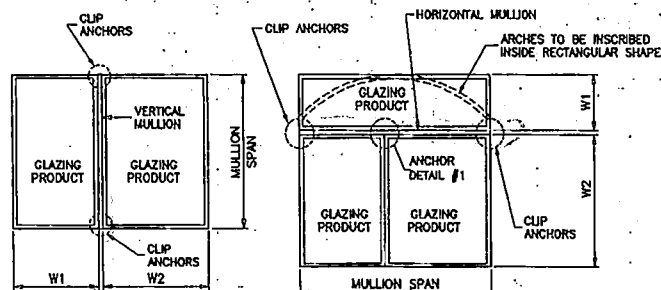
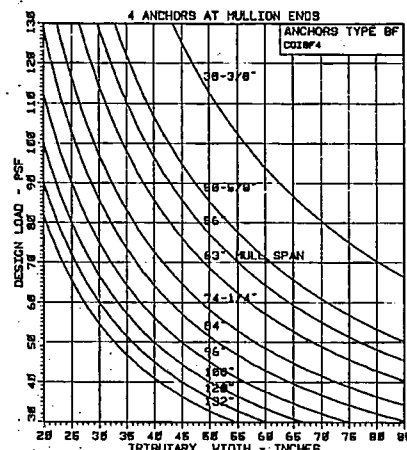
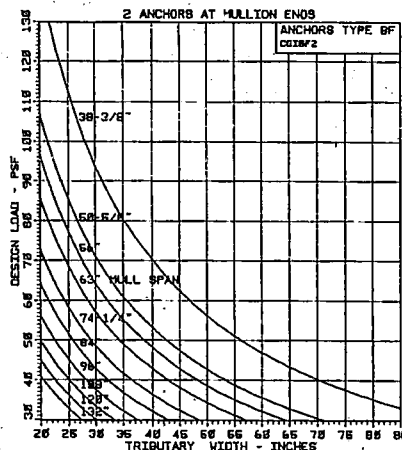
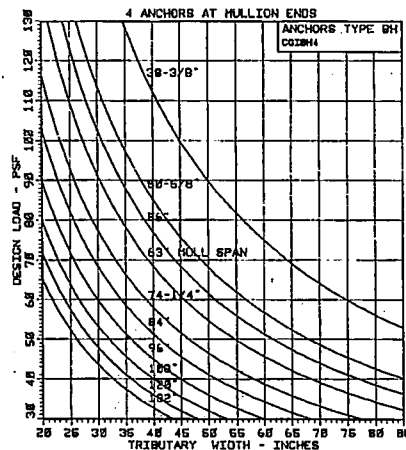
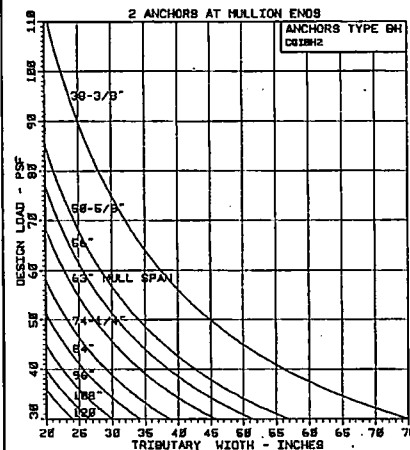
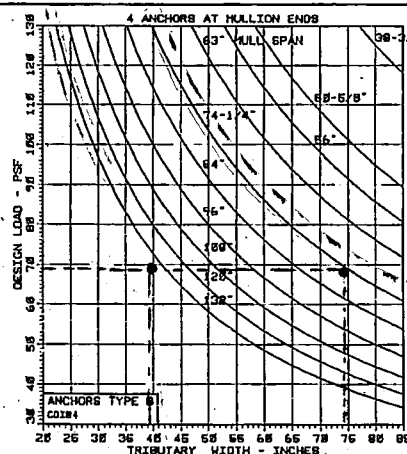
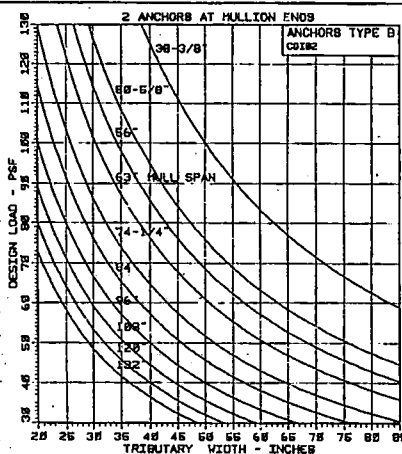
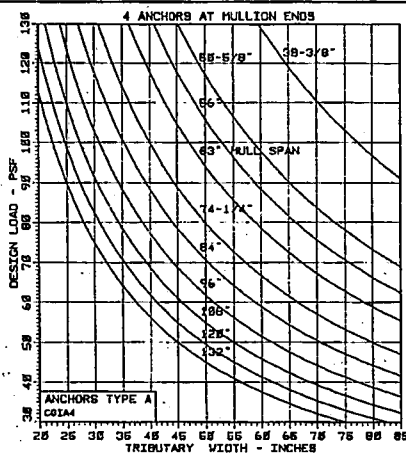
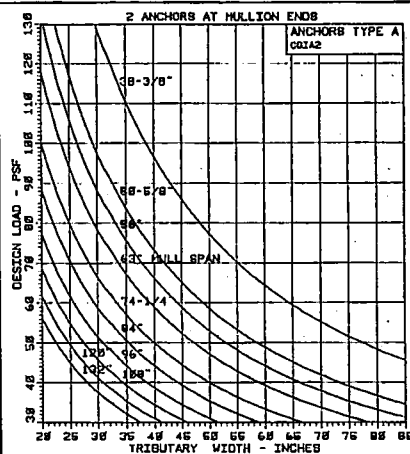
MULLIONS

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL: (305) 264-8100 FAX: (305) 263-9978
MULLION M95-13A

MULLION ELEVATIONS AND DETAILS
CGI WINDOWS & DOORS.
10100 NW 25 STREET
MIAMI, FL 33172
TEL: (305) 593-5590 FAX: (305) 593-5592

NO.	DATE	BY	DESCRIPTION
1	03/27/08	D	NO CHANGE THIS SHEET
2	11/21/11	E	NO CHANGE THIS SHEET
3	04/08/13	F	NO CHANGE THIS SHEET
4	07/27/15	G	NO CHANGE THIS SHEET

date: 11-25-95
scale: 1/2" = 1"
dr. by: HAUID
chk. by:
drawing no.
M95-13A
sheet 2 of 5



TYPICAL MULLION ARRANGEMENTS

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

ANCHOR LOAD CHARTS

ANCHORS 'A'
APPLICABLE TO ANCHORS INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
OR THRU 1BY WOOD BUCKS INTO CONCRETE.

ANCHORS 'B'
APPLICABLE TO ANCHORS INTO CONCRETE

ANCHORS 'BH'
APPLICABLE TO ANCHORS DIRECTLY TO HOLLOW BLOCKS
OR THRU 1BY WOOD BUCKS INTO MASONRY

ANCHORS 'BF'
APPLICABLE TO ANCHORS DIRECTLY TO GROUT FILLED BLOCKS
OR THRU 1BY WOOD BUCKS INTO MASONRY

NOTE:
ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER
LOCATIONS AT HEAD, SILL OR JAMB ENDS.
FOR ANCHORS DESCRIPTION SEE SHEETS 4 THRU 5.
(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0420-08
Expiration Date 12/31/2018
By *Manuel Jerez*
Miami/Dade Product Control

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
CAN. J538

JUL 28 2015

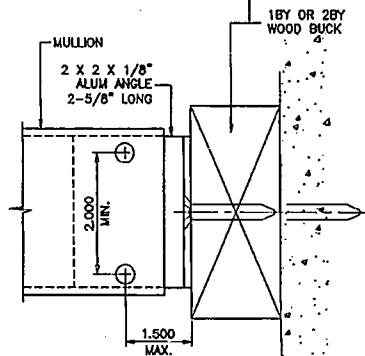
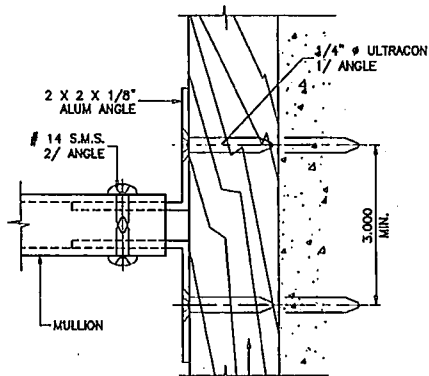
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
MULLION M85-13A

MULLION ELEVATIONS AND DETAILS
CGI WINDOWS & DOORS.
10100 NW 25 STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

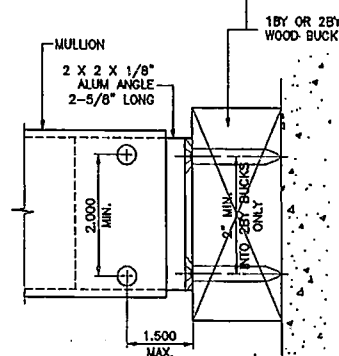
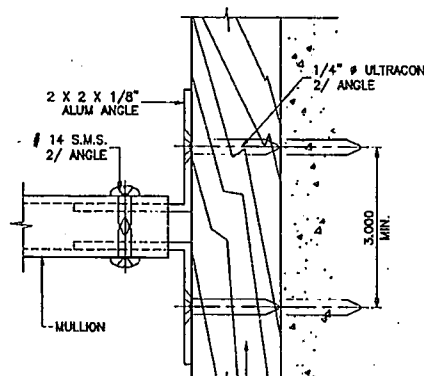
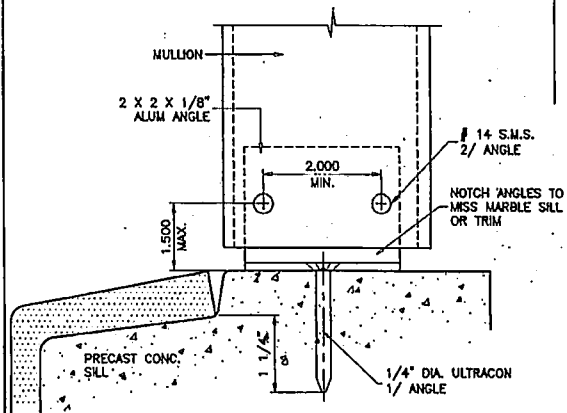
REVISION	BY	DESCRIPTION
1	D	NO CHANGE THIS SHEET
2	E	ANCHORS REV.
3	F	UPDATED TO 2014 FBC
4	G	REV PER REV COMMENTS

date: 11-25-95
scale: 1/2" = 1'
dr: JF
chk: JF

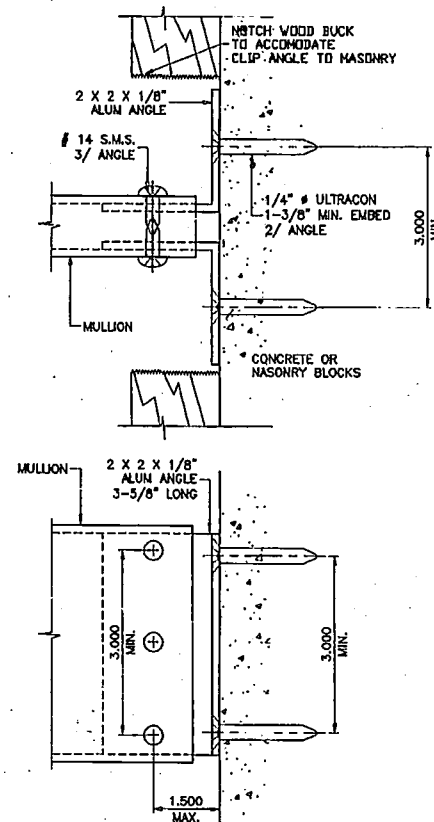
drawing no.
M95-13A
sheet 3 of 5



2 SCREWS PER SIDE REQUIRED FOR 3" TUBE MULLIONS
CLIP ANGLE ATTACHMENTS NOT APPLICABLE FOR 1"x2" TUBE MULL



2 SCREWS PER SIDE REQUIRED FOR 3" TUBE MULLIONS
CLIP ANGLE ATTACHMENTS NOT APPLICABLE FOR 1"x2" TUBE MULL



3 SCREWS PER SIDE REQUIRED FOR
4" & 6" TUBE MULLIONS

STC

Engr. JAVAD AHMAD
CIVIL
FLA. PE # 70592
CAN. 3538
JUL 28 2013

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-04-20.03
Expiration Date March 28, 2018
By *Manuel*
Miami/Dade Product Control

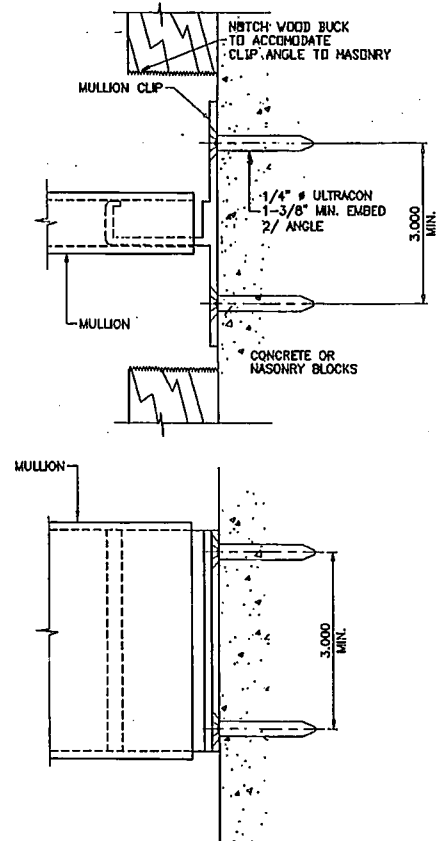
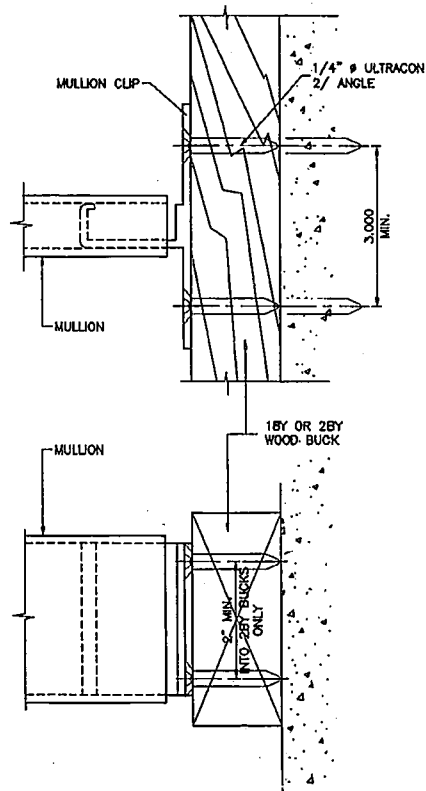
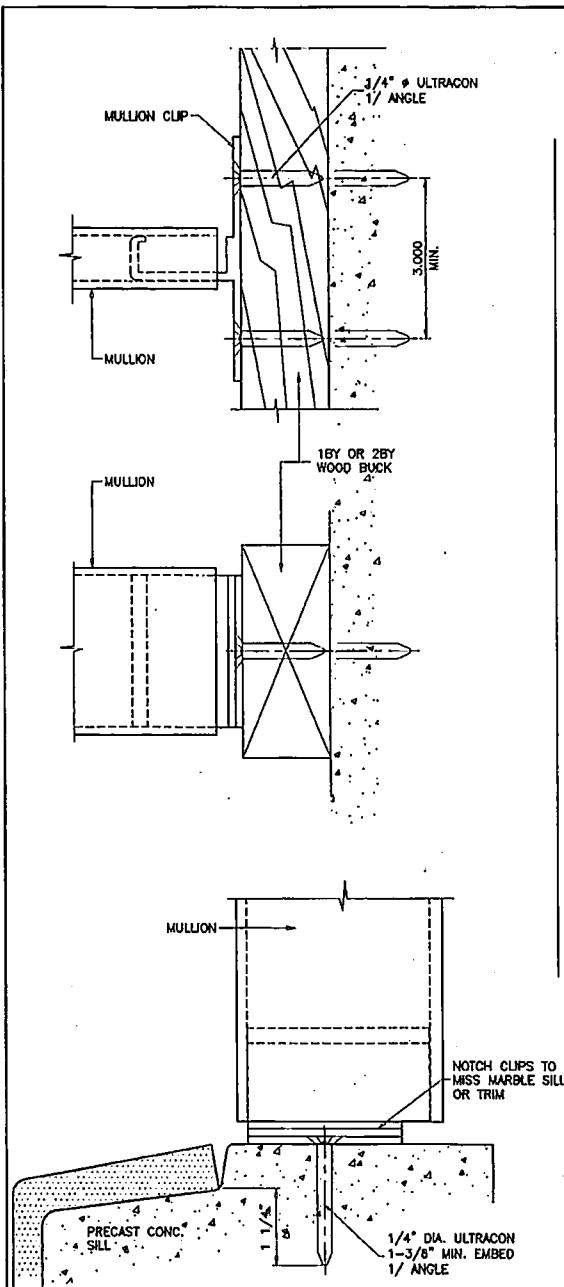
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12345 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-6100 FAX (305) 262-6978
MULLION M95-13A

MULLION ELEVATIONS AND DETAILS
CGI WINDOWS & DOORS.
10100 NW 25 STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

REV.	DATE	DESCRIPTION
D	03/27/08	NO CHANGE THIS SHEET
E	12/21/11	ANCHORS REV.
F	04/06/15	UPDATED TO 2014 FBC
G	07/27/15	REV. PER COMMENTS

date: 11-25-93
scale: 1/2" = 1"
dr. by: HAUD
chk. by:

drawing no.
M95-13A
sheet 4 of 5



SEE SHEET 1 FOR APPLICABLE MULLION CLIP TO 18Y OR 28Y TUBE MULLIONS AND FOR FABRICATION OPTIONS OF MULLION CLIPS

STANDARD

Engr. JAYAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JUL 28 2015

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0420.08
Expiration Date March 28, 2018
By *Michael Perry*
Miami Dade Product Control

af c

AL-FAROQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
12335 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-9378

MULLION M95-13A

MULLION ELEVATIONS AND DETAILS

CGI WINDOWS & DOORS,
10100 NW 25 STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

REVISIONS:

NO.	DATE	DESCRIPTION
1	07/27/15	REV. PER PER COMMENTS

date: 11-25-95
scale: 1/2" = 1"
dr. by: HAUD
chk. by:

drawing no.
M95-13A
sheet 4 of 5

WOOD BUCKS AND METAL STRUCTURE NOT BY CGI WDW.
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. ULTRA CON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

TYPE 'B' - 1/4" DIA. ULTRA CON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE

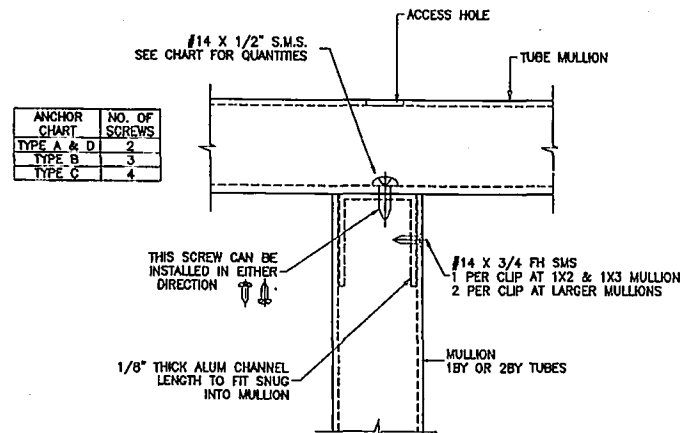
TYPE 'BH' - 1/4" DIA. ULTRA CON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO HOLLOW BLOCKS
1-1/4" MIN. EMBED INTO MASONRY
THRU 1BY BUCKS INTO MASONRY
1-1/4" MIN. EMBED INTO MASONRY

TYPE 'BF' - 1/4" DIA. ULTRA CON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO FILLED BLOCKS
1-3/4" MIN. EMBED INTO MASONRY
THRU 1BY BUCKS INTO MASONRY
1-1/4" MIN. EMBED INTO MASONRY

TYPICAL EDGE DISTANCE

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

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



ANCHORS DETAIL #1
METAL TO METAL CONNECTION

91.03.11

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
JUL 28 2015

PRODUCT REVISED
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Building Code
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Expiration Date March 28, 2018
By: *Manuel Perez*
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
MULLION M95-13A

MULLION ELEVATIONS AND DETAILS
CGI WINDOWS & DOORS.
10100 NW 25 STREET
MIAMI, FL 33172
TEL (305) 593-6590 FAX (305) 593-6592

NO	DATE	BY	DESCRIPTION
D	03.27.08	DETAIL	1 ADDED
E	12.21.11	ANCHORS	REV.
F	04.08.15	UPDATED	TO 2014 FBC
G	07.27.15	REV	PER PER COMMENTS

date: 11-25-05
scale: 1/2" = 1"
dc. by: HAND
chd. by:
drawing no.
M95-13A
sheet 5 of 5

TERMITES PROTECTION:

(1816.17 FBC)

A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PETS CONTROL COMPANY THAT CONTAIN THE FOLLOWING STATEMENT:
"THE BUILDING HAS RECEIVED A COMPLETED TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES."
TREATMENT IS IN ACCORDANCE WITH THE RULE & LAWS ESTABLISHED BY FLORIDA DEPARTMENT OF AGRICULTURE OF CONSUMER SERVICE.

FOUNDATION:

FOUNDATION SHALL BE BASED ON RECOMMENDATIONS PROVIDED BY ENGINEERING & TESTING, INC., DESIGNED FOR A SOIL BEARING CAPACITY NOT EXCEEDING 2000 PSF. CONTRACTOR TO COMPLY WITH ALL RECOMMENDATIONS, SEE GEOTECHNICAL EXPLORATION REPORT ATTACHED.

NOTES:

CONTRACTOR ON FIELD HAS THE RESPONSIBILITY TO VERIFY ALL DIMENSIONS. BEFORE INSTALL THE WALL FOOTING THE GENERAL CONTRACTOR WILL CHECK THE RIGHT DIMENSIONS & HEIGHT. THE DIMENSIONS SHOWN IN THIS PLAN CAN VARY DUE TO JOB SITE CONDITIONS. CONTRACTOR SHALL BE USED SHIM AS NEEDED TO GET THE REQUIRED LEVEL.

WOOD NOTES

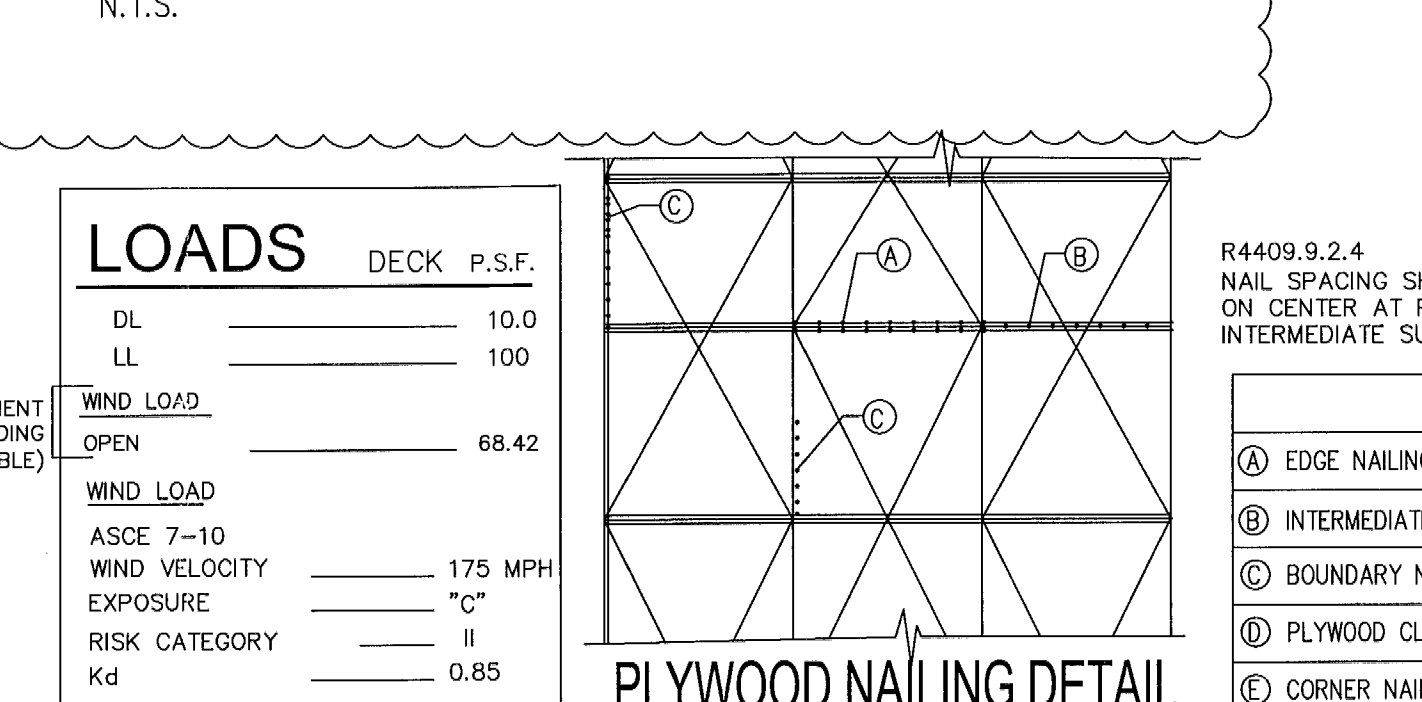
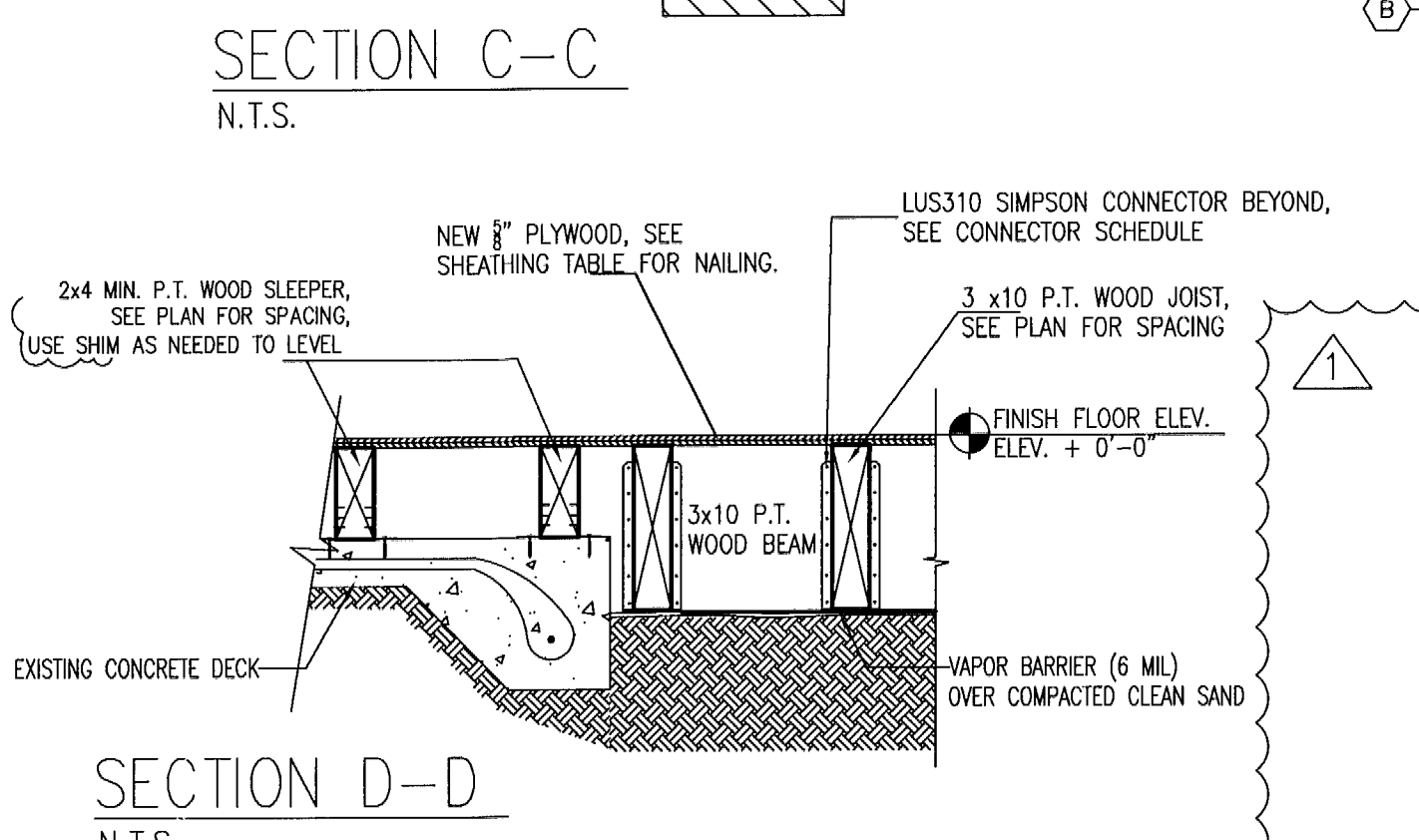
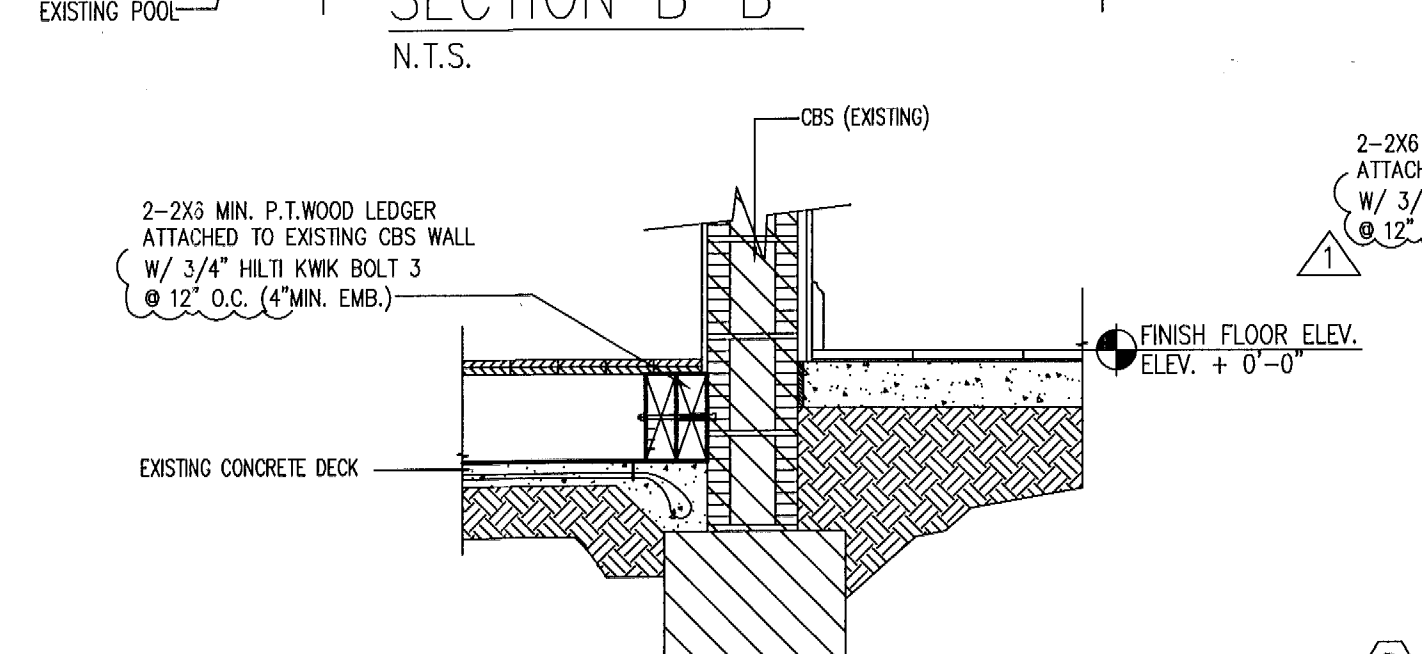
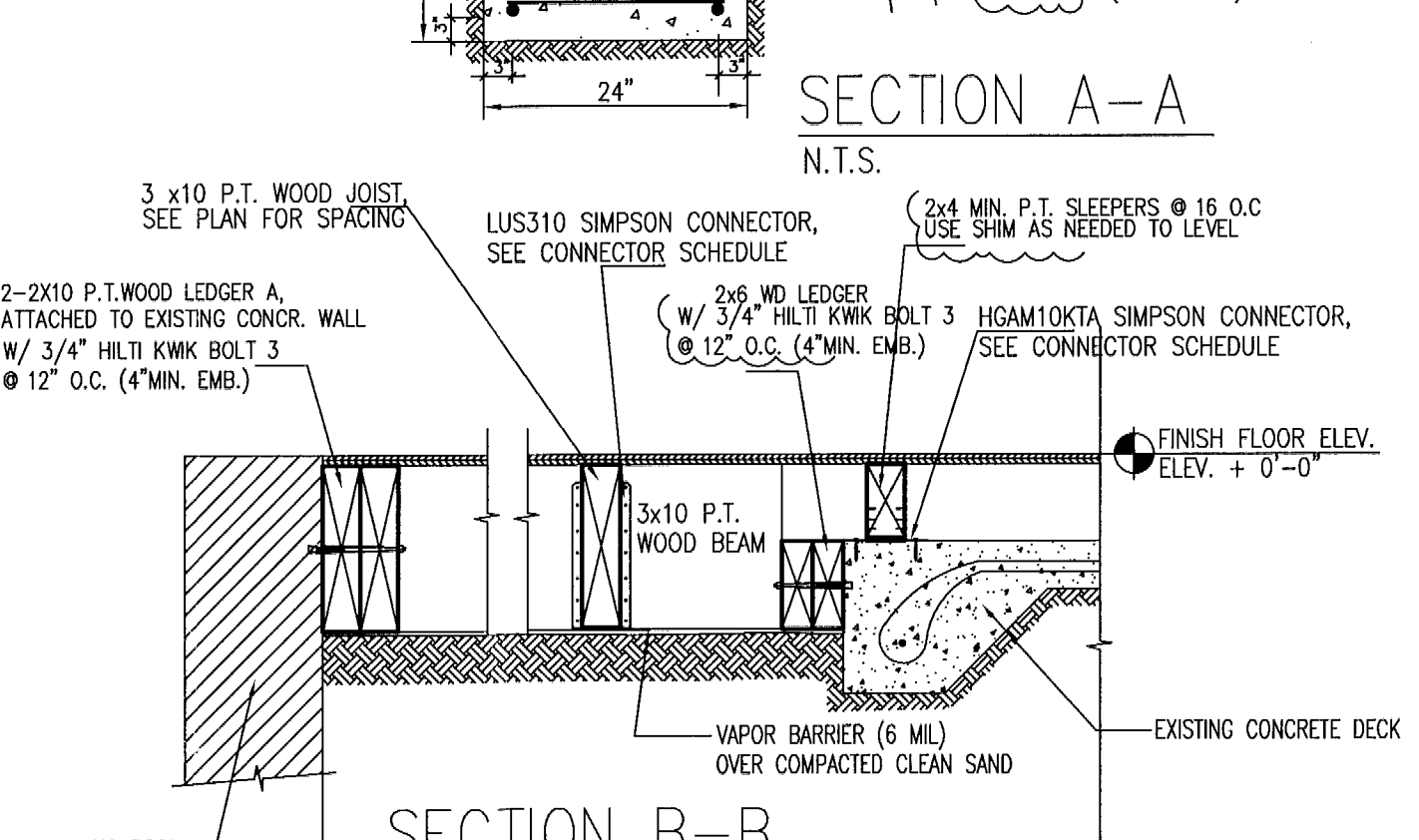
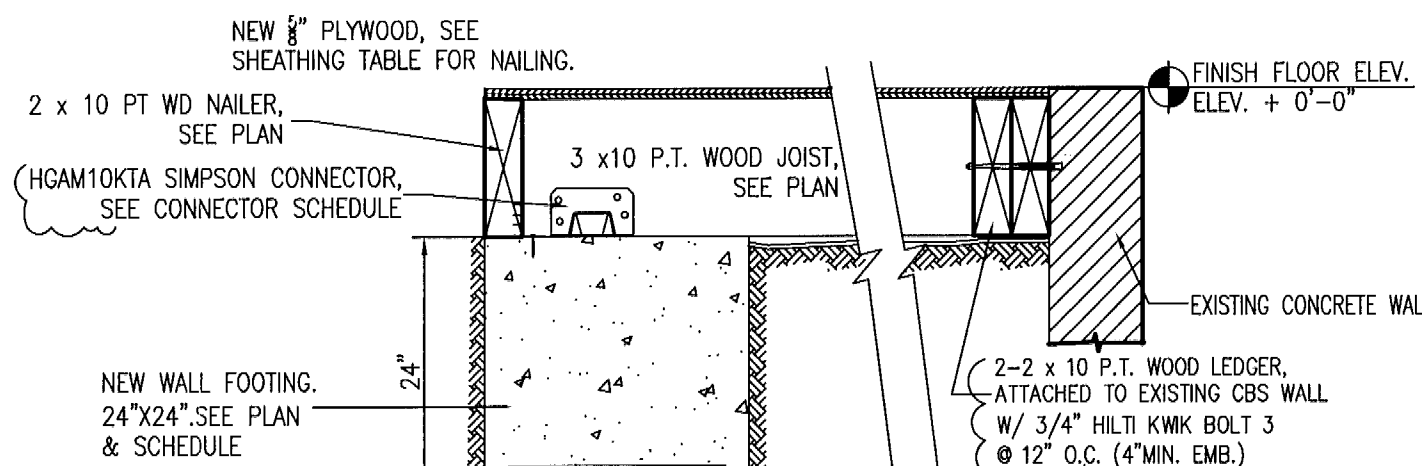
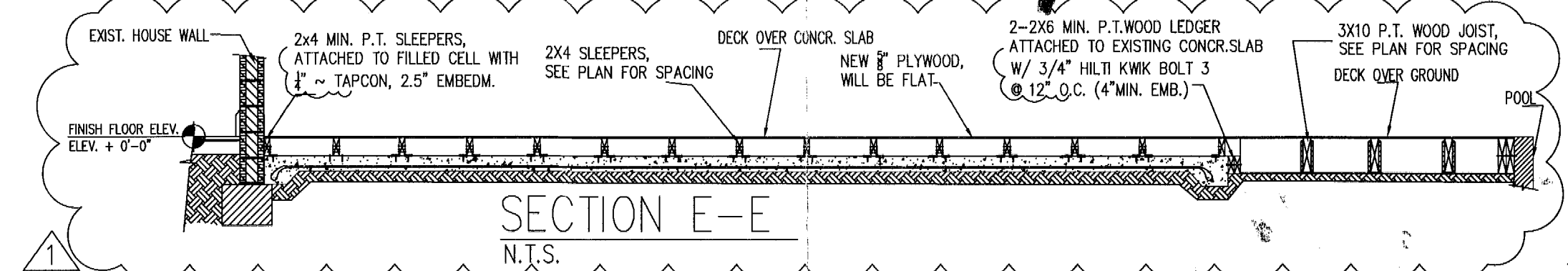
1. ALL WOOD IN CONTACT W/ CONCRETE, MASONRY OR LATH SHALL BE PRESSURE TREATED (PT) AS PER "AMERICAN WOOD-PRESERVES ASSOCIATION"
ALL POSTS, POLES AND COLUMNS EMBEDDED IN CONCRETE WHICH IS IN CONTACT WITH GROUND AND SUPPORTING PERMANENT STRUCTURES SHALL BE APPROVED PRESSURE TREATED WOOD SUITABLE FOR GROUND CONTACT USE EXCEPT NATURALLY DURABLE WOOD MAY BE USED FOR POSTS, POLES AND COLUMNS EMBEDDED IN CONCRETE FOR STRUCTURES OTHER THAN BUILDINGS AND WALKING SURFACES OR IN STRUCTURES WHERE WOOD IS ABOVE GROUND LEVEL AND NOT EXPOSED TO THE WEATHER.
ALL WOOD IN CONTACT WITH OR EMBEDDED IN THE GROUND THAT SUPPORTS OF PERMANENT STRUCTURES SHALL BE APPROVED PRESSURE-TREATED WOOD SUITABLE FOR GROUND CONTACT USE.
ALL WOOD NOT SEPARATED FROM AND/OR IN DIRECT CONTACT WITH CONCRETE MASONRY, INCLUDING SILLS, SLEEPERS, PLATES, POSTS, COLUMNS, BEAMS, GIRDERS AND FURRING; SHALL BE TREATED IN AN APPROVED METHOD WITH AND APPROVED PRESERVATIVE, OR SHALL BE OF AN APPROVED DURABLE SPECIES
2. STRUCTURAL LUMBER SHALL HAVE A MINIMUM ALLOWABLE BENDING STRESS OF $F_b = 1200$ P.S.I. FRAMING LUMBER SHALL BE SOUTHERN YELLOW PINE No.2, NOMINAL SIZE DRESSED S4S OR APPROVAL EQUAL LUMBER SHALL BE FREE OF WARP THAT CAN NOT BE CORRECTED BY BRIDGING AND NAILING.

ZONING INFORMATION:

AREA AND ZONING: RS-3
LOT AREA: 11250 SF
LOT WIDTH: 75 FT (EXISTING)
EXISTING BLDG AREA: 4611 SF
LOT COVERAGE: 50% MAX (REQ) 1273sf (EXIST)=22.1%
GREEN SPACE (REAR): 70% GRASS (1687 REQ) 1740sf (EXIST)=103.14%
BUILDING SETBACK
REQUIRED EXISTING
PRINCIPAL FRONT: 20' 29'-5"
SIDE: 5' & 7'-6" 5' & 7'-6"
REAR: 22'-6" 24'-4"

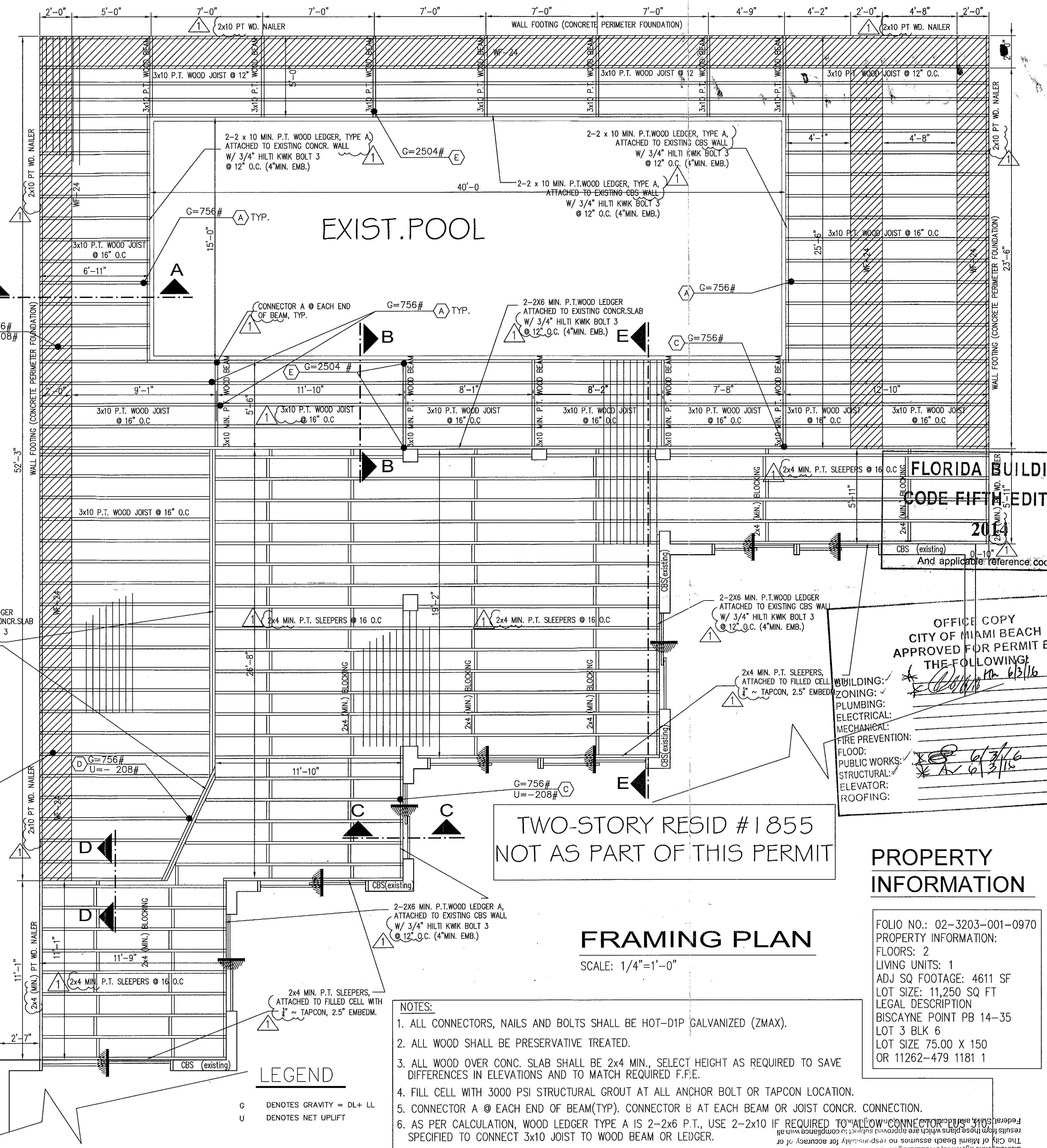
FOUNDATION SCHEDULE

MARK	DIMENSIONS	REINFORCING STEEL	REMARK
WF-24	24"x24" CONT. WALL FTG.	3 # 6 CONT. BOTTOM & # 4 @ 48" O.C.	3" MIN COVER H2T & VERT. F'CD 3000 psi



R4409.9.2.4
NAIL SPACING SHALL BE 6 INCHES (152 MM) ON CENTER AT PANEL EDGES AND AT INTERMEDIATE SUPPORTS.

	DECK
A EDGE NAILING	8d RS @ 6" O.C.
B INTERMEDIATE NAILING	8d RS @ 6" O.C.
C BOUNDARY NAILING	8d RS @ 4" O.C.
D PLYWOOD CLIPS	NO
E CORNER NAILING	8d RS @ 4" O.C.



FRAMING PLAN

SCALE: 1/4"=1'-0"

- NOTES:
- ALL CONNECTORS, NAILS AND BOLTS SHALL BE HOT-DIP GALVANIZED (ZMAX).
 - ALL WOOD SHALL BE PRESERVATIVE TREATED.
 - ALL WOOD OVER CONC. SLAB SHALL BE 2x4 MIN. SELECT HEIGHT AS REQUIRED TO SAVE DIFFERENCES IN ELEVATIONS AND TO MATCH REQUIRED F.F.E.
 - FILL CELL WITH 3000 PSI STRUCTURAL GROUT AT ALL ANCHOR BOLT OR TAPCON LOCATION.
 - CONNECTOR A @ EACH END OF BEAM(TYP). CONNECTOR B AT EACH BEAM OR JOIST CONC. CONNECTION.
 - AS PER CALCULATION, WOOD LEDGER TYPE A IS 2-2x6 P.T., USE 2-2x10 IF REQUIRED TO ALLOW CONNECTOR TO BE USED TO CONNECT 3x10 JOIST TO WOOD BEAM OR LEDGER.

LEGEND

G DENOTES GRAVITY = DL + LL
U DENOTES NET UPLIFT

CONNECTORS SCHEDULE

MARK No	MANUFACT. PRODUCT CODE	STEEL GAUGE	SEAT/HEADER/C.M.U.	TRUSS/RAFTER	ALLOWABLE LOADS (lb)	REMARKS-N.O.A.
A	LUS 310	18	6-16d	4-16d	1165 1315	FL11468
B	HGAM10KTA	14	4-1/4"x1 1/2" TITEN	4-SDS 1/2"x1 1/2"	1005 1105 850	FL11473
C	LUS 36	18	4-16d	4-16d	1165 1030	FL11468
D	SUR/L 2.56/9	14	14-16d	2-16dx2 1/2"	1005 1105 850	FL11473
E	MBHA 3.12/9.25	14	3-3/4" x5"	12-SDS 1/2"x2 1/2"	1005 1105 2715 4190	FL13904

SCOPE OF WORK

INSTALLATION OF WOOD DECK (2120 SF) AROUND EXIST. POOL

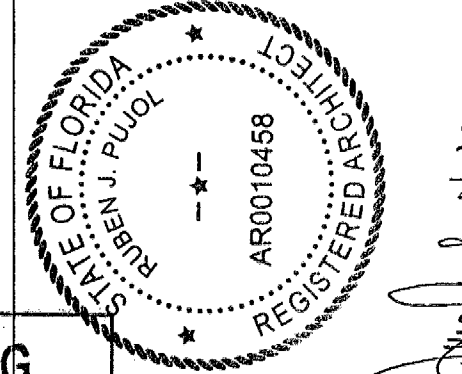
ALL PLANS AND CALCULATIONS HAVE BEEN PREPARED IN COMPLIANCE WITH F.B.C. 2014

REVISIONS

No.	DATE
1	05/25 /2016

RUBEN JUAN PUJOL
ARCHITECT, P.A.
A.I.A. AR # 0010458

12237 S.W. 204 TERRACE
MIAMI, FLORIDA 33161
PHONE: (305) 968-2155 FAX (305) 253-7258



FLORIDA BUILDING CODE FIFTH EDITION 2014

And applicable reference codes

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:
BUILDING: [Signature]
PLUMBING: [Signature]
ELECTRICAL: [Signature]
MECHANICAL: [Signature]
FIRE PREVENTION: [Signature]
FLOOD: [Signature]
PUBLIC WORKS: [Signature]
STRUCTURAL: [Signature]
ELEVATOR: [Signature]
ROOFING: [Signature]

PROPERTY INFORMATION

FOLIO NO.: 02-3203-001-0970
PROPERTY INFORMATION:
FLOORS: 2
LIVING UNITS: 1
ADJ SQ FOOTAGE: 4611 SF
LOT SIZE: 11,250 SQ FT
LEGAL DESCRIPTION
BISCAYNE POINT PB 14-35
LOT 3 BLK 6
LOT SIZE: 75.00 X 150
OR 11262-479 1181 1

WOOD DECK AROUND EXISTING POOL

ADDRESS: 1855 CLEVELAND ROAD, MIAMI BEACH, FL 33141
OWNER INFORMATION: 1855 CLEVELAND RD LLC

DATE	04.20.2016
DRAWN BY:	GPC
CHECKED BY:	R.P.
SCALE:	AS SHOWN

A-1

SHEET NUMBER: 1 OF 1

BR0516-0058

1855 CLEVELAND RD

FLORIDA BUILDING
CODE FIFTH EDITION
2011

**PUBLIC WORKS
PLAN REVIEW NOTICE**

Phone 305-673-7080 Fax 305-673-7028

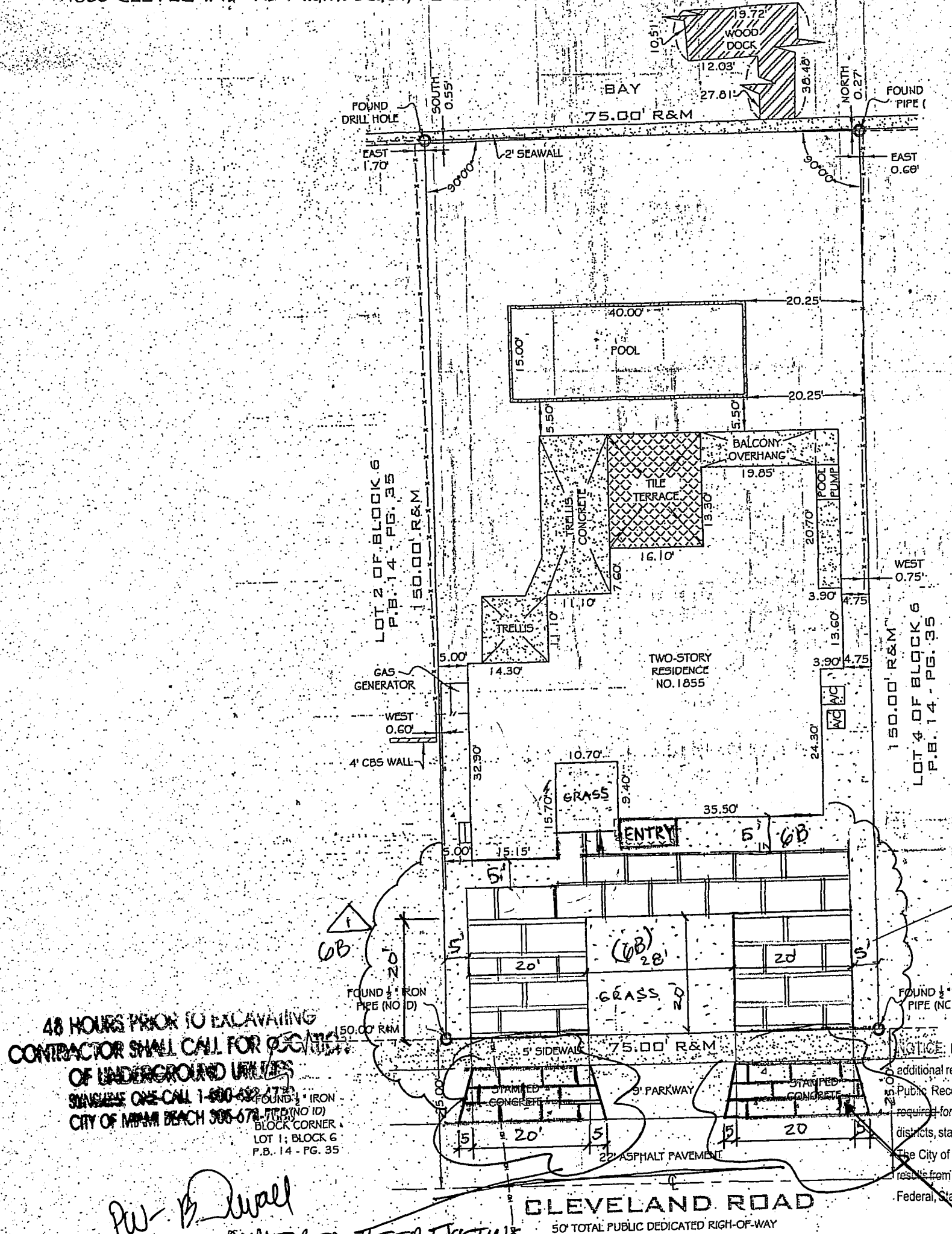
THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING
BUILDING PERMITS ONLY.

All work, materials and equipment are to be retained within
the property.

Any construction and/or use of equipment in the Right of Way
and/or easements will require a separate Public Works
Department permit PRIOR TO START OF CONSTRUCTION.

-Prior to start any excavation in the right of way, you must
contact Sunshine State One Call of Florida (1-800-432-4770) no
later than 48 hours prior to the excavate; you cannot start to
work if the utilities have not been located at the job site.

1855 CLEVELAND RD Miami Beach, FL 33141-1722



48 HOURS PRIOR TO EXCAVATING
CONTRACTOR SHALL CALL FOR LOCATION
OF UNDERGROUND UTILITIES
UNLESS ONE CALL 1-800-432-1773
CITY OF MIAMI BEACH 305-673-7773
BLOCK CORNER
LOT 1, BLOCK 6
P.B. 14 - PG. 35

PW- B Duval

OWNER TO KEEP EXISTING
APPROACHES. NO WORK TO BE
DONE IN CHB. RW.

Scope of Work

Remove Existing Drive way (concrete)
replaces by a new concrete drive way
as per plan.

PUBLIC WORKS
PLAN REVIEW NOTICE

Phone 305-673-7080

Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR
OBTAINING BUILDING PERMITS ONLY.

All construction and/or use of equipment in the right-of-way and/or
easements, requires a separate Public Works Department permit prior
to start of construction.

Permit Requirements: Proof of existing sidewalk/swale area conditions
(pictures) and/or posting of sidewalk/read way bonds
(Public Works Inspection of the right-of-way will be required prior to
final sign-off on the C.C./C.O., or the release of bonds.)

Approved/Reviewed By:

B. Duval

Date: 3/24/16

Front Coverage
 $20' \times 75' = 1500SF$
CONCRETE = 740 SF
GRASS = 760 SF
50.67%

Driveway of 4" Conc Slab
w/ 6x6x10 W.W.M
over well compact fill.
Concrete 3000 PSI
Piece @ 4"

NOTICE: In addition to the requirement of this permit, there may be
additional restrictions applicable in this property that may be found in the
Public Records of the County and there may be additional permits
required from other government entities such as water management's
districts, state agencies, or federal agencies.
The City of Miami Beach assumes no responsibility for accuracy of or
results from these plans which are subject to compliance with all
Federal, State, and Local Laws, Rules and Regulations.

Driveway Approach
6" Conc Slab w/ 6x6x10 W.W.M
over well compact fill.
Concrete 3000 PSI

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING: N/A
ZONING: 3-2416
PLUMBING: CA 3-2416
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
FLOOD:
PUBLIC WORKS: B. Duval 3/24/16
STRUCTURAL:
ELEVATOR:
ROOFING:

B1602775

MAP OF BOUNDARY SURVEY

LEGAL DESCRIPTION:

LOT 3, OF BLOCK 6, OF "BISCAYNE POINT" ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 14, AT PAGE 35, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA

PROPERTY ADDRESS:

FOLIO No. 02-3203-001-0970
1855 CLEVELAND ROAD
MIAMI BEACH, FL 33141

AREA OF PROPERTY: 11,250 SQUARE FEET AND/OR 0.20 ACRES MORE OR LESS.

CERTIFIED TO:

THIS BOUNDARY SURVEY HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE ENTITIES NAMED HEREON. THE CERTIFICATIONS DO NOT EXTEND TO ANY UNNAMED PARTIES.

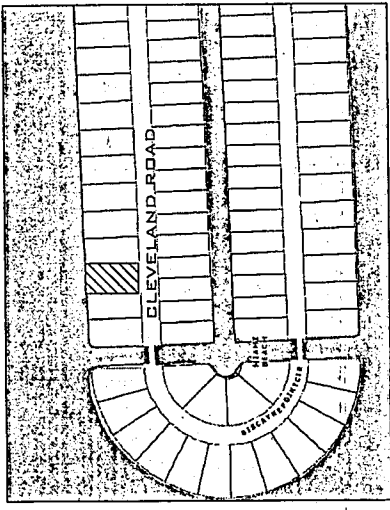
- 1855 CLEVELAND RD, LLC.

SURVEYOR'S NOTES:

- THE ABOVE CAPTIONED PROPERTY WAS SURVEYED AND DESCRIBED BASED ON THE ABOVE LEGAL DESCRIPTION; PROVIDED BY CLIENT.
- THIS CERTIFICATION IS ONLY FOR THE LANDS AS DESCRIBED. IT IS NOT A CERTIFICATION OF TITLE, ZONING, EASEMENTS, OR FREEDOM OF ENCUMBRANCES.
- THERE MAY BE ADDITIONAL RESTRICTIONS NOT SHOWN ON THIS BOUNDARY SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF HIS COUNTY.
- ACCURACY: THE EXPECTED USE OF THE LAND, AS CLASSIFIED IN FLORIDA MINIMUM TECHNICAL STANDARDS (61-17.5 FAC), IS "RESIDENTIAL." THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF BOUNDARY SURVEY IS 1 FOOT IN 7,500 FEET. THE ACCURACY OBTAINED BY MEASUREMENT AND CALCULATION OF A CLOSED GEOMETRIC FIGURE WAS FOUND TO EXCEED THIS REQUIREMENT.
- FOUNDATIONS AND/OR FOOTINGS THAT MAY CROSS BEYOND THE BOUNDARY LINES OF THE PARCEL HEREIN DESCRIBED ARE NOT SHOWN.
- TYPE OF SURVEY: BOUNDARY SURVEY
- ELEVATIONS SHOWN HEREON ARE BASED ON TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D. 29)
- ALL MEASUREMENTS ARE IN ACCORDANCE WITH THE UNITED STATES STANDARD U.S. FOOT.
- CONTACT THE APPROPRIATE AUTHORITY PRIOR TO ANY DESIGN WORK ON THE HEREIN DESCRIBED PARCEL FOR BUILDING AND ZONING INFORMATION.
- UNDERGROUND UTILITIES ARE NOT DEPICTED HEREON. CONTACT THE APPROPRIATE AUTHORITY PRIOR TO ANY DESIGN WORK OR CONSTRUCTION ON THE PROPERTY HEREIN DESCRIBED. SURVEYOR SHALL BE NOTIFIED AS TO ANY DEVIATION FROM UTILITIES SHOWN HEREON.
- ENCUMBRANCES NOT SHOWN ON THE PLAT.
- THE WRITTEN CONSENT OF LANDMARK SURVEYING & ASSOCIATES, INC. UNDERGROUND PORTIONS OF FOOTING, FOUNDATIONS OR OTHER IMPROVEMENTS WERE NOT LOCATED.
- ONLY VISIBLE AND ABOVE GROUND ENCROACHMENTS LOCATED.
- WALL TIES ARE TO THE FACE OF THE WALL.
- FENCE OWNERSHIP NOT DETERMINED.
- BEARINGS REFERENCED TO LINE NOTED AS B.R.
- BOUNDARY SURVEY MEANS A DRAWING AND/OR GRAPHIC REPRESENTATION OF THE SURVEY WORK PERFORMED IN THE FIELD.
- NO IDENTIFICATION FOUND ON PROPERTY CORNERS UNLESS NOTED.
- THE SOURCES OF DATE USED FOR THE PREPARATION OF THIS BOUNDARY SURVEY IS "BISCAYNE POINT" RECORDED IN PLAT BOOK 14, AT PAGE 35.
- THIS MAP OF SURVEY IS INTENDED TO BE DISPLAYED AT A SCALE OF ONE INCH EQUALS 20 FEET OR SMALLER.

LOCATION MAP

SECTION 3, TOWNSHIP 53 SOUTH, RANGE 42 EAST
LYING AND BEING IN MIAMI-DADE COUNTY FLORIDA
(NOT TO SCALE)



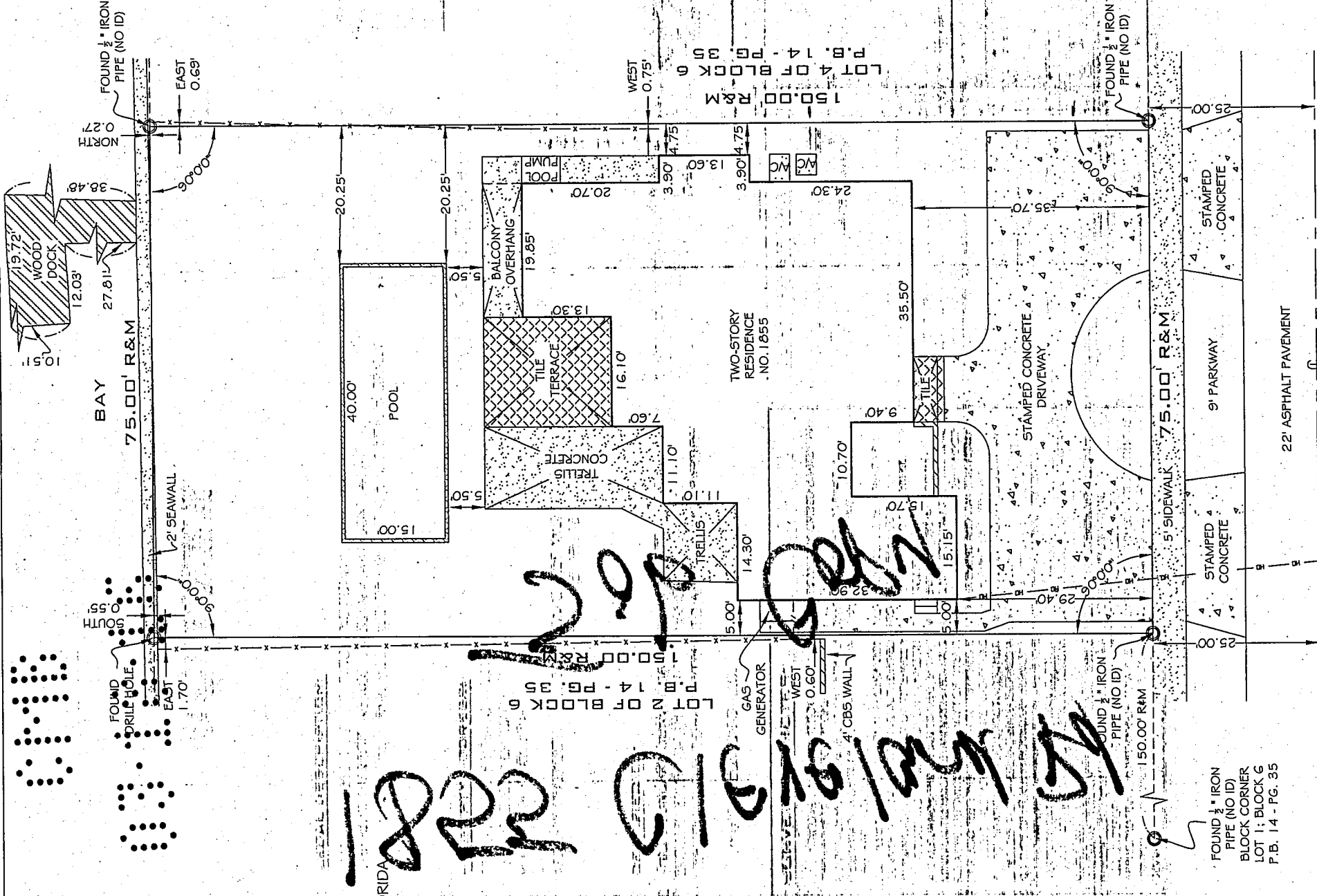
GRAPHIC SCALE
20' 10' 0' 10' 20'
(IN FEET)
1 INCH = 20 FT.

SURVEYOR'S CERTIFICATION: I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS "MAP OF BOUNDARY SURVEY" IS A TRUE AND CORRECT REPRESENTATION OF A SURVEY PREPARED UNDER MY DIRECTION. THAT IT MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE STATE OF FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 5J, 17.050 THROUGH 5J-17.052 OF THE FLORIDA ADMINISTRATIVE CODE AND ITS IMPLEMENTING LAW, PURSUANT TO CHAPTER 42.02, FLORIDA STATUTE.

SIGNED
RICARDO RODRIGUEZ, P.S.M.
P.S.M. NO. 59366 STATE OF FLORIDA
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES AND/OR NOT VALID WITHOUT AN AUTHENTIC ELECTRONIC SIGNATURE AND AUTHENTICATED ELECTRONIC SEAL.

CLEVELAND ROAD

50' TOTAL PUBLIC DEDICATED RIGHT-OF-WAY



LB NO. 7633

PROFESSIONAL SURVEYORS AND MAPPERS
1470 N.W. 107th AVENUE, SUITE 11
MIAMI, FL 33172
PHONE: (305) 556-4002 FAX: (305) 556-4003
WWW.LMSURVEYING.COM
EMAIL-LANDMARKSURVEYING@HOTMAIL.COM

ABBREVIATIONS AND LEGEND:

- AC - DENOTES AIR CONDITIONING UNIT
- APPR. - DENOTES APPROXIMATE
- ASPH. - DENOTES ASPHALT
- B.C. - DENOTES BLOCK CORNER
- B.M. - DENOTES BENCH MARK
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- C.G. - DENOTES CENTERLINE
- D.M.E. - DENOTES DRAINAGE & MAINTENANCE EASEMENT
- DIA. - DENOTES DIAMETER
- D.H. - DENOTES DRAIN HOLE
- (R) - DENOTES RIGHT-OF-WAY
- SW - DENOTES RIGHT-OF-WAY
- U.E. - DENOTES UTILITY EASEMENT
- P.B. - DENOTES PLAT BOOK
- P.C.P. - DENOTES PAGE
- POINT - DENOTES POINT OF BEGINNING
- F.O.B. - DENOTES FENCE
- TYP. - DENOTES CHAIN LINK FENCE
- /// - DENOTES IRON PIPE
- - DENOTES FOUND IRON PIPE (NO ID.)
- △ - DENOTES FOUND NAIL AND DISC
- - DENOTES ASPHALT PAVEMENT
- - DENOTES BRICK
- - DENOTES CONCRETE PAD

ALL BEARINGS AND DISTANCES SHOWN
HEREON ARE RECORD AND MEASURED
UNLESS OTHERWISE NOTED.

FLOOD ZONE:			AE		
ELEVATION:			8.0		
COMMUNITY:			120651		
PANEL:			12096C0307		
DATE OF FIRM:			09-11-2009		
SUFFIX:			1		
ORIGINAL FIELD WORK SURVEY DATE			06-15-2015		
BENCH MARK:			N/A		
ELEVATION:			N/A		
DATE	DRAWN BY	SCALE			
01-20-2016	JP	1"=20'			
REVISION / UPDATE OF SURVEY					
DATE	DESCRIPTION				
01-20-2016	UPDATE				
JOB NO.					
16011-204					

MAP OF BOUNDARY SURVEY

B1602775

1855 Cleveland Rd

Job Copy

2025

MAP OF BOUNDARY SURVEY

LEGAL DESCRIPTION:

LOT 3, OF BLOCK 6, OF "BISCAYNE POINT", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 14, AT PAGE 35, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

PROPERTY ADDRESS:

FOLIO No.02-3203-001-0970
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MIAMI BEACH, FL 33141

AREA OF PROPERTY: 11,250 SQUARE FEET AND/OR
0.20 ACRES MORE OR LESS.

CERTIFIED TO:

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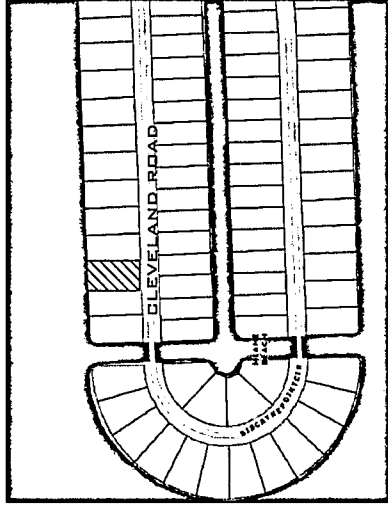
- 1855 CLEVELAND RD, LLC.

SURVEYOR'S NOTES:

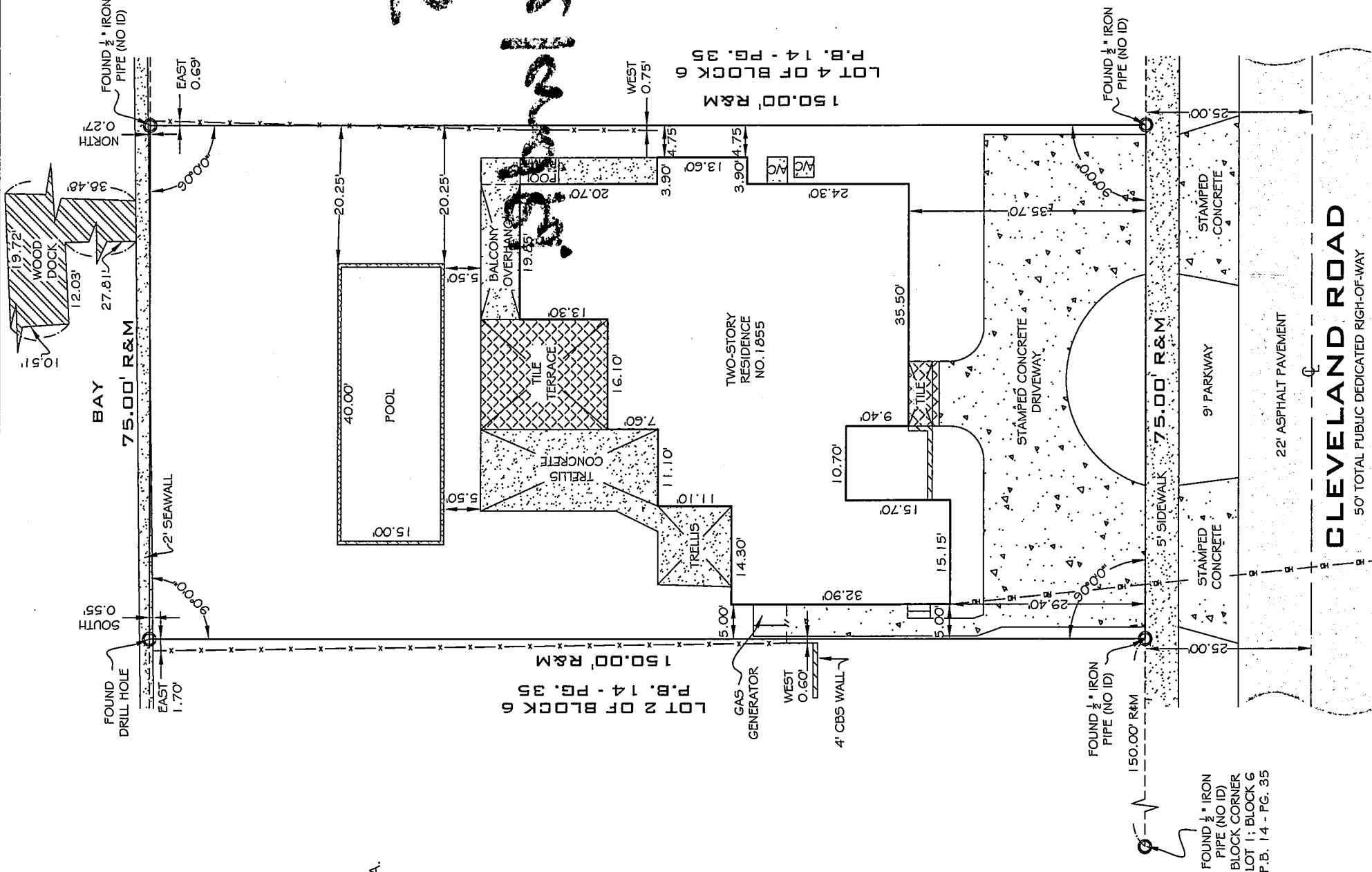
- 1.) THE ABOVE CAPTIONED PROPERTY WAS SURVEYED AND DESCRIBED BASED ON THE ABOVE LEGAL DESCRIPTION: PROVIDED BY CLIENT.
- 2.) THIS CERTIFICATION IS ONLY FOR THE LANDS AS DESCRIBED. IT IS NOT A CERTIFICATION OF TITLE, ZONING, EASEMENTS, OR FREEDOM OF ENCUMBRANCES. ABSTRACT NOT REVIEWED.
- 3.) THERE MAY BE ADDITIONAL RESTRICTIONS NOT SHOWN ON THIS BOUNDARY SURVEY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF HIS COUNTY. EXAMINATION OF ABSTRACT OF TITLE WILL HAVE TO BE MADE TO DETERMINE RECORDED INSTRUMENTS, IF ANY AFFECTING THIS PROPERTY.
- 4.) ACCURACY: THE EXPECTED USE OF THE LAND, AS CLASSIFIED IN FLORIDA MINIMUM TECHNICAL STANDARDS (51-17.51 FAC), IS "RESIDENTIAL". THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF BOUNDARY SURVEY IS 1 FOOT IN 7,500 FEET. THE ACCURACY OBTAINED BY MEASUREMENT AND CALCULATION OF A CLOSED GEOMETRIC FIGURE WAS FOUND TO EXCEED THIS REQUIREMENT.
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- 9.) CONTACT THE APPROPRIATE AUTHORITY PRIOR TO ANY DESIGN WORK ON THE HEREIN DESCRIBED PARCEL FOR BUILDING AND ZONING INFORMATION.
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- 11.) ENCUMBRANCES NOT SHOWN ON THE PLAT.
- 12.) THE WRITTEN CONSENT OF LANDMARK SURVEYING & ASSOCIATES, INC. UNDERGROUND PORTIONS OF FOOTING, FOUNDATIONS OR OTHER IMPROVEMENTS WERE NOT LOCATED.
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LOCATION MAP

SECTION 3, TOWNSHIP 53 SOUTH, RANGE 42 EAST
LYING AND BEING IN MIAMI-DADE COUNTY FLORIDA
(NOT TO SCALE)



277 6001 8
1822 CLEVELAND RD
277 6001 8



SURVEYOR'S CERTIFICATION: I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS "MAP OF BOUNDARY SURVEY" IS A TRUE AND CORRECT REPRESENTATION OF A SURVEY PREPARED UNDER MY DIRECTION. THAT IT MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE STATE OF FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 51-17.050 THROUGH 51-17.052 OF THE FLORIDA ADMINISTRATIVE CODE AND ITS IMPLEMENTING LAW, PURSUANT TO CHAPTER 42.02, FLORIDA STATUTE.

SIGNED
RICARDO RODRIGUEZ, P.E.M.
FOR THE FIRM
P.E.M. No. 5936-STATE OF FLORIDA
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES AND/OR NOT VALID WITHOUT AN AUTHENTIC ELECTRONIC SIGNATURE AND AUTHENTICATED ELECTRONIC SEAL.



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- C & G - DENOTES CURVE & GUTTER
- V.G. - DENOTES VALLEY GUTTER
- CL - DENOTES CENTERLINE
- CL - DENOTES CENTERLINE
- D.M.E. - DENOTES MONUMENT LINE
- DR - DENOTES DRAINAGE & MAINTENANCE
- DIA. - DENOTES DIAMETER
- D.H. - DENOTES DRILL HOLE
- (M) - DENOTES MEASURE
- (R) - DENOTES RECORD
- R/W - DENOTES RIGHT-OF-WAY
- U.E. - DENOTES UTILITY EASEMENT
- P.B. - DENOTES PLAT BOOK
- P.C.P. - DENOTES PLAT PAGE
- POINT - DENOTES POINT OF BEGINNING
- - - - - DENOTES TYPICAL
- - - - - DENOTES WOOD FENCE
- - - - - DENOTES CHAIN LINK FENCE
- - - - - DENOTES IRON FENCE
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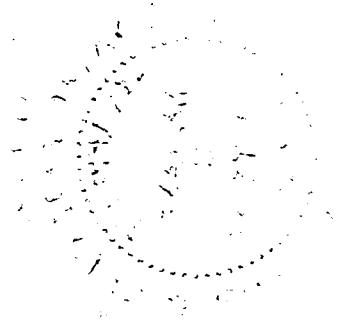
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HEREON ARE RECORD AND MEASURED
UNLESS OTHERWISE NOTED.

MAP OF BOUNDARY SURVEY				
FLOOD ZONE:	AE			
ELEVATION:	8.0			
COMMUNITY:	120651			
PANEL:	12086C0307			
DATE OF FIRM:	09-11-2009			
SUFFIX:	L			
ORIGINAL FIELD WORK SURVEY DATE	06-15-2015			
BENCH MARK:	N/A			
ELEVATION:	N/A			
DATE	DRAWN BY	SCALE		
01-20-2016	JP	1"=20'		
REVISION / UPDATE OF SURVEY				
DATE	DESCRIPTION			
01-20-2016	UPDATE			
JOB NO.				
1601-204				

MAP OF BOUNDARY SURVEY

B1402775

1855 Cleveland Rd.

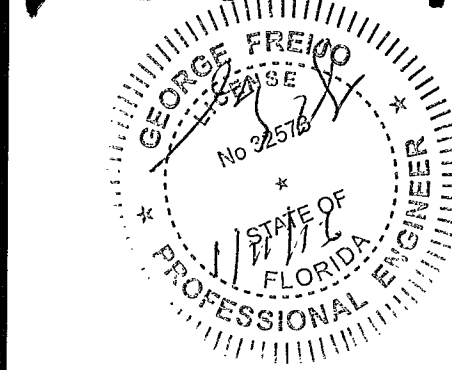


INTERIOR DEMOLITION TO

SINGLE FAMILY RESIDENCE

1855 CLEVELAND ROAD
MIAMI BEACH, FLORIDA 33141

BREV 160851
B1505025
1855 CLEVELAND RD



PROJECT INFORMATION:

ADDRESS:
1855 CLEVELAND ROAD
MIAMI BEACH, FLORIDA 33141

OWNER:
JACOB LEVY & LUCERO

FOLIO:
02-3203-001-0970

LEGAL DESCRIPTION:
BISCAYNE POINT PB 14-35 LOT 3 BLK 6 LOT SIZE 75.000 x 150' OR 11262-479 1811

BUILDING CODES:
FLORIDA BUILDING CODE, 5th ED (2014)
FLORIDA BUILDING CODE, 5th ED (2014) RESIDENTIAL
NFPA LIFE SAFETY CODE, 2009 ED
FLORIDA FIRE PREVENTION CODE, 5th EDITION

JURISDICTION:
CITY OF MIAMI BEACH
MIAMI-DADE COUNTY
STATE OF FLORIDA

BUILDING INFORMATION:
1. EXISTING BUILDING USE:
2. LAND USE:
3. BEDS / BATHS / HALF:
4. EXISTING AREA:
5. LEVEL OF ALTERATION:
6. AREA OF WORK:

CODE PROVISION:
SINGLE-FAMILY RESIDENTIAL
RS-3 RESIDENTIAL
4 / 6 / 0
4611 sq.ft.
ALTERATION LEVEL 2
754 sq.ft.

SCOPE OF WORK:

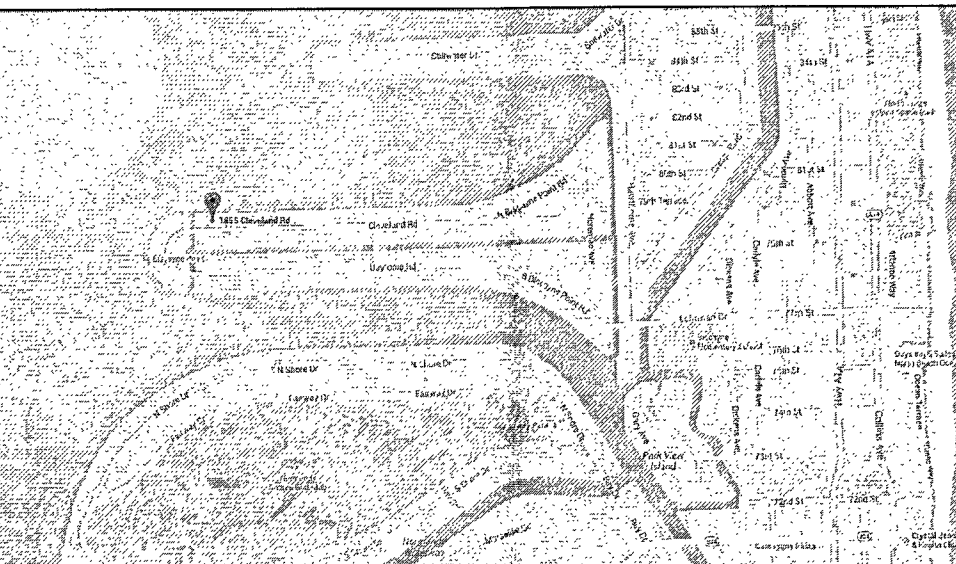
- REMOVE EXISTING BATHROOM'S PLUMBING FIXTURES (SINK/VANITY, TOILET, BIDET, BATH-TUB) TO REPLACE W/ NEW @ SAME LOCATION
- REPLACE EXISTING SHOWER ENCLOSURE W/ NEW TEMPERED SAFETY GLASS GATE II SHOWER ENCLOSURES, PROVIDE A 24" MIN DOOR SHOWER ACCESS (TYP)
- NEW VANITY MILLWORK
- REPLACE ALL SHOWERS & BATHTUBS SHOWER-HEADS & WALL FAUCETS WITH NEW (TYP)
- REMOVE & REPLACE EXISTING KITCHEN MILLWORK, CABINETS, COUNTERS & ALL APPLIANCES @ SAME LOCATION
- REMOVE ALL EXISTING POPCORN TEXTURE FROM EXISTING CEILING, PLASTER & PAINT
- REPLACE EXISTING DOWNLIGHT FIXTURE'S TRIMS W/ NEW FIXTURE HOUSING & LOCATION TO REMAIN AS IS
- REMOVE & REPLACE ALL EXISTING INTERIOR DOORS W/ NEW - SAME SIZE & LOCATION
- RE-TILE ALL EXISTING BATHROOMS OVER EXIST DUROC (CEMENT BOARD) (TYP)
- NO FRAMING WORK TO BE DONE UNDER THIS PERMIT
- NO STRUCTURAL WORK TO BE DONE UNDER THIS PERMIT

RESPONSE NARRATIVE (10.25.15):

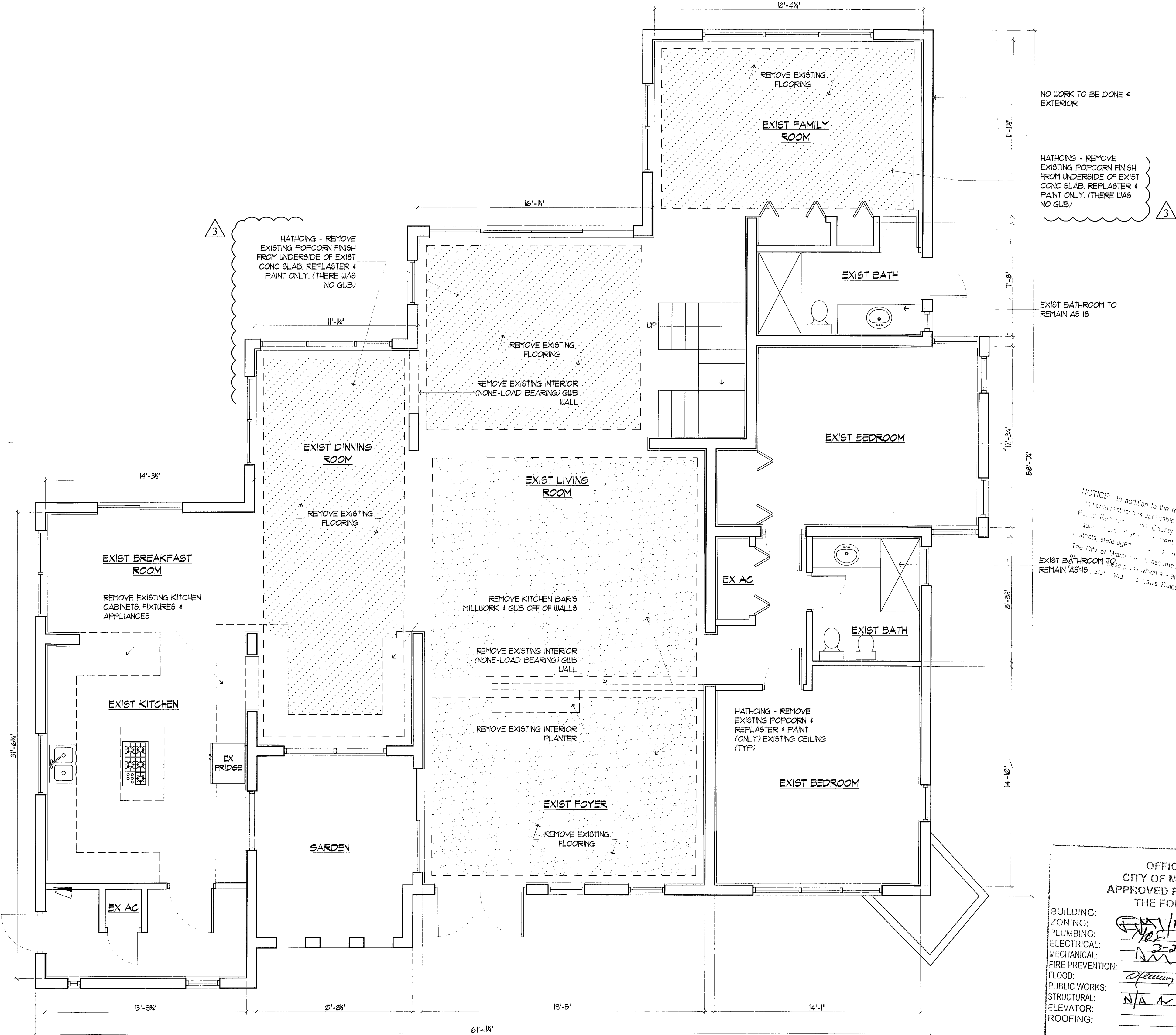
- FIRST FLOOR & SECOND FLOOR PLAN PROVIDE DIMENSIONS
- SCOPE OF WORK HAS BEEN ADDED TO PROJECT INFORMATION (ABOVE)
- 754 sq.ft. PROPOSED AREA OF INTERIOR SCOPE OF WORK
- REQUIRED CEMENT BOARD @ ALL WET LOCATION - NOTE HAS BEEN ADDED TO FLOOR PLAN
- NON-ABSORBENT SURFACES SUCH AS TILE FINISHES SHALL BE PROVIDED @ ALL WET LOCATIONS FLOOR TO 10' 0", AS REQ BY FBC 1210 (TYP)



AERIAL VIEW:



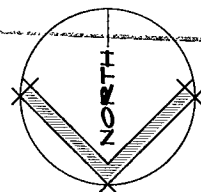
LOCATION MAP:



NOTICE: In addition to the requirement of this permit, there may be other restrictions applicable to this property that may be found in the Florida Building Code, Miami-Dade County and there may be additional permits required from other government agencies such as water management's The City of Miami Beach assumes no responsibility for accuracy of or compliance with all Laws, Rules, and Regulations.

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING: [Signature] 1/13/16
ZONING: [Signature] 1/13/16
PLUMBING: [Signature] 1/13/16
ELECTRICAL: [Signature] 1/13/16
MECHANICAL: [Signature] 1/13/16
FIRE PREVENTION: [Signature] 1/13/16
FLOOD: [Signature] 1/13/16
PUBLIC WORKS: [Signature] 1/13/16
STRUCTURAL: [Signature] 1/13/16
ELEVATOR: [Signature] 1/13/16
ROOFING: [Signature] 1/13/16



SCALE: 1/8" = 1'-0"

REVISIONS

No.	DATE	COMMENTS
1.	10.25.15	CITY COMMENTS
2.	12.07.15	EXIST CONDITIONS
3.	01.08.16	SITE CONDITIONS
4.	-	-
5.	-	-
6.	-	-
7.	-	-
8.	-	-
9.	-	-
10.	-	-

INTERIOR DEMOLITION TO
SINGLE FAMILY RESIDENCE
1855 CLEVELAND ROAD
MIAMI BEACH, FL 33141

PROJECT INFO &
FIRST FLOOR
DEMOLITION PLAN

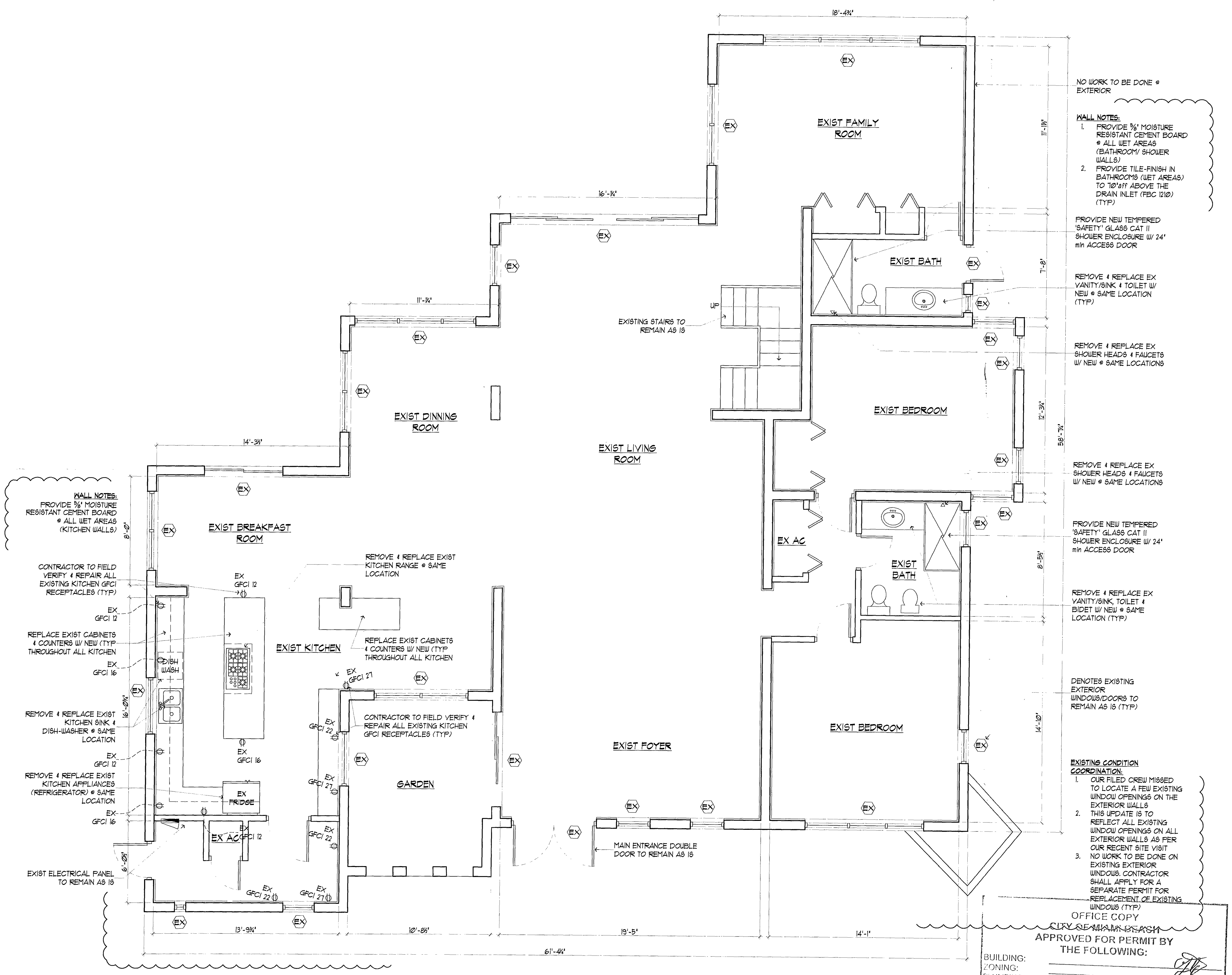
DRAWN BY: JMPE
CHECKED BY: JMPE
DATE: 05.02.15
SCALE: NOTED

SHEET #

A-01

DEMOLITION NOTES:

1. CONDITIONS & REQUIREMENTS: THE DEMOLITION CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR HAULING & LEGALLY DISPOSING OF MATERIALS REMOVED IN DEMOLITION WORK.
2. PROCEDURES: THE PROCEDURES PROPOSED FOR THE ACCOMPLISHMENT OF SALVAGE & DEMO WORK SHALL PROVIDE FOR SAFE CONDUCT OF THE WORK, CAREFUL REMOVAL & DISPOSING OF MATERIALS, PROTECTION OF PROPERTY, COORDINATION W/ WORK OF OTHERS IN PROGRESS, & TIMELY DISCONNECTION OF UTILITY SERVICES. THE PROCEDURES SHALL INCLUDE A DETAILED DESCRIPTION OF METHODS & REQUIREMENTS TO BE USED FOR EACH OPERATION.
3. PARTITION: REMOVE ALL EXISTING INTERIOR PARTITIONS & RELATED UTILITIES AS INDICATED IN THE DEMOLITION PLAN.
4. DUST CONTROL: THE AMOUNT OF DUST RESULTING FROM DEMO SHALL BE CONTROLLED TO PREVENT THE SPREAD OF DUST TO AVOID CREATION OF A NUISANCE IN THE SURROUNDING AREA. USE OF WATER WILL NOT BE PERMITTED WHEN IT WILL RESULT IN OR CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS SUCH AS FLOODING.
5. PROTECTION OF EXISTING BUILDING:
- A. EXISTING BUILDING SHALL BE PROTECTED FROM DAMAGE, ANY PART DAMAGE BY THE CONTRACTOR SHALL BE REPAIRED TO MATCH EXISTING CONDITIONS AT CONTRACTOR'S EXPENSE.
- B. COVER ITEMS AS NECESSARY TO PROTECT FROM DUST.
- C. AT END OF EACH WORK DAY, CLOSE OFF AREAS FROM PUBLIC.
- D. DEMO CONTRACTOR SHALL PROVIDE & MAINTAIN NECESSARY BARRICADES TO PREVENT SPILLAGE ON ANY UNAUTHORIZED PERSONS FROM ACCIDENTALLY OR INTENTIONALLY ENTERING THE WORK AREA.
6. ENVIRONMENTAL PROTECTION: ALL WORK & CONTRACT OPERATIONS SHALL COMPLY W/ ALL REQUIREMENTS OF STATE & COUNTY ENVIRONMENTAL PROTECTION REGULATIONS.
7. EXPLOSIVE & BURNING:
- A. USE OF EXPLOSIVES WILL NOT BE PERMITTED.
- B. USE OF FIRE FOR DEMO OR DISPOSAL OF MATERIAL OR ANY OTHER SITUATION INTENTIONAL OR ACCIDENTAL WILL NOT BE PERMITTED.
8. EXISTING UTILITIES:
- A. CONTACT ALL UTILITIES INCLUDING ELECTRIC, WATER, GAS & TELEPHONE, PRIOR TO BEGINNING WORK & REQUEST THAT ALL SERVICES BE SHUT OFF & CAPPED @ PRIMARY SERVICE LINES.
- B. REMOVE ALL EXISTING UTILITIES ACCORDING TO SEQUENCE OF OPERATIONS APPROVED AT START OF PROJECT.
- C. REMOVE ALL EXIST UTILITIES UNCOVERED BY DEMO & TERMINATE IN A MANNER & AT A TIME SATISFACTORY TO UTILITY COMPANIES INVOLVED. WHERE UTILITY COMPANY DESIRE TO EFFECT THE REMOVAL OF THEIR MATERIALS THEY SHALL BE PERMITTED TO DO SO.
- D. REMOVE & DELIVER METERS & RELATED EQUIPMENT TO THE APPROPRIATE UTILITY COMPANIES WITHOUT ADDITIONAL COST TO THE OWNER. WHEN UTILITY LINES ARE ENCOUNTERED THAT ARE NOT ON THE DUGS OR VISIBLE THEY SHALL BE DISPOSAL OF IN ACCORDANCE W/ INSTRUCTIONS OF THE ARCHITECT/ENGINEER.
- E. INSTALL & LEAVE A WELL MARKED STAKE @ CAPPED EN OF EVERY UTILITY CAPPED ON SITE.
9. DISPOSING OF MATERIAL:
- A. TITLE TO MATERIALS: TITLE TO ALL MATERIAL & EQUIPMENT TO BE DEMO & REMOVED EXCEPT ITEMS INDICATED TO BE TURNED OVER TO THE OWNER IS VESTED IN THE CONTRACTOR AT START OF PROJECT. THE OWNER WILL NOT BE RESPONSIBLE FOR THE CONDITIONS, LOSS OR DAMAGE TO SUCH PROPERTY AFTER NOTICE TO PROCEED.
- B. DEBRIS CONTROL: REMOVE & TRANSPORT DEBRIS IN LEAK-FREE CONTAINERS IN A MANNER TO PREVENT SPILLAGE ON ANY PART OF EXISTING BUILDING, PARKING LOT AREAS, OR CITY STREETS.
- C. REGULATIONS: COMPLY W/ COUNTY, MUNICIPALITY & CITY REGULATIONS REGARDING HAULING & DISPOSAL OF DEBRIS. ALL SUCH MATERIAL SHALL BE DISPOSAL OF OFF SITE IN A LEGAL DISPOSAL AREA.
10. PREPARATION:
- A. PROVIDE ADEQUATE TEMP SUPPORT AS NECESSARY TO ASSURE STRUCTURAL VALUE OR INTEGRITY OF AFFECTED PORTION OF PROJECT FROM DAMAGE.
- B. PROVIDE DEVICES & METHODS TO PROTECT OTHER PORTIONS OF THE PROJECT FROM DAMAGE.
- C. PROVIDE PROTECTION FROM ELEMENTS FOR THAT PORTION OF THE PROJECT WHICH MAY BE EXPOSED BY CUTTING & PATCHING WORK.
- II. PERFORMANCE:
- A. EXECUTE CUTTING & DEMO MY METHODS WHICH WILL PREVENT DAMAGE TO OTHER WORK & WHICH WILL PROVIDE PROPER SURFACES TO RECEIVE INSTALLATION OF REPAIRS.
- B. EXECUTE FITTING & ADJUSTMENT OF PRODUCTS TO PROVIDE A FINISH INSTALLATION TO COMPLY W/ SPECIFIED PRODUCT, FUNCTION, TOLERANCE & FINISHES.
- C. RESTORE WORK WHICH HAS BEEN CUT OR REMOVED, INSTALL NEW PRODUCTS TO PROVIDE COMPLETE WORK IN ACCORD W/ REQUIREMENTS THROUGH SURFACES.
- D. FIT WORK AIR-TIGHT TO PIPES, SLEEVES, DUCTS, CONDUIT & OTHER PENETRATIONS THROUGH SURFACES.
- E. REFINISH ENTIRE SURFACES AS NECESSARY TO PROVIDE AN EVEN FINISH TO MATCH ADJACENT FINISH.
- a. FOR CONTINUOUS SURFACES, REFINISH TO NEAREST INTERSECTION.
- b. FOR AN ASSEMBLY, REFINISH ENTIRE UNIT.
- ALTERATION PROJECT PROCEDURES:
- REQUIREMENTS INCLUDED:
1. COORDINATE WORK OF TRADES & SCHEDULE ELEMENTS OF ALTERATIONS & RENOVATION WORK BY PROCEDURES & METHODS TO EXPEDITE COMPLETION OF WORK.
2. CUT, MOVE, OR REMOVE ITEMS AS NECESSARY TO PROVIDE ACCESS OR TO ALLOW ALTERATIONS & NEW WORK TO PROCEED. INCLUDE SUCH ITEMS AS:
- a. REPAIR OR REMOVAL OF HAZARDOUS OR UNSANITARY CONDITIONS.
- b. REMOVAL OF ABANDONED ITEMS & ITEMS SERVING NO USEFUL PURPOSE, SUCH AS ABANDONED PIPING, CONDUIT & WIRING.
- c. REMOVAL OF UNSUITABLE OR EXTRANEOUS MATERIALS NOT MARKED FOR SALVAGE, SUCH AS ABANDONED EQUIPMENT & DEBRIS INCLUDING ROTTED WOOD, RUSTED METAL & DETERIORATED CONCRETE.
3. ALTERATIONS & CONNECTIONS OF NEW CONSTRUCTION TO EXIST CONSTRUCTION OCCURS AT DUST SENSITIVE AREAS, EXECUTE ALL MEASURES TO COMPLETELY CONTROL & SEPARATE DUST FROM EXIST AREA & EQUIPMENT.



NO WORK TO BE DONE @ EXTERIOR

- WALL NOTES:**
1. PROVIDE 3/4" MOISTURE RESISTANT CEMENT BOARD @ ALL WET AREAS (BATHROOM/ SHOWER WALLS)
 2. PROVIDE TILE FINISH IN BATHROOMS (WET AREAS) TO 10" ABOVE THE DRAIN INLET (FBC 1210) (TYP)

PROVIDE NEW TEMPERED SAFETY GLASS CAT II SHOWER ENCLOSURE W/ 24" MIN ACCESS DOOR

REMOVE & REPLACE EX VANITY/SINK & TOILET W/ NEW @ SAME LOCATION (TYP)

REMOVE & REPLACE EX SHOWER HEADS & FAUCETS W/ NEW @ SAME LOCATIONS

REMOVE & REPLACE EX SHOWER HEADS & FAUCETS W/ NEW @ SAME LOCATIONS

PROVIDE NEW TEMPERED SAFETY GLASS CAT II SHOWER ENCLOSURE W/ 24" MIN ACCESS DOOR

REMOVE & REPLACE EX VANITY/SINK, TOILET & BIDET W/ NEW @ SAME LOCATION (TYP)

DENOTES EXISTING EXTERIOR WINDOWS/DOORS TO REMAIN AS IS (TYP)

EXISTING CONDITION COORDINATION:

1. OUR FIELD CREW MISSED TO LOCATE A FEW EXISTING WINDOW OPENINGS ON THE EXTERIOR WALLS
2. THIS UPDATE IS TO REFLECT ALL EXISTING WINDOW OPENINGS ON ALL EXTERIOR WALLS AS PER OUR RECENT SITE VISIT
3. NO WORK TO BE DONE ON EXISTING EXTERIOR WINDOWS. CONTRACTOR SHALL APPLY FOR A SEPARATE PERMIT FOR REPLACEMENT OF EXISTING WINDOWS (TYP)

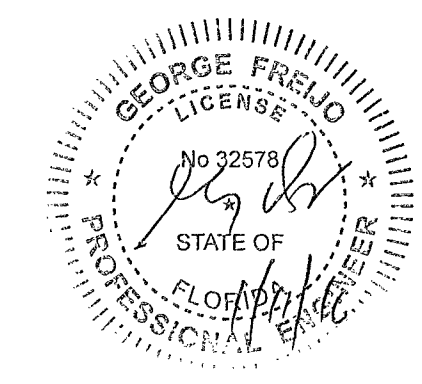
OFFICE COPY

APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:	
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
FLOOD:	
PUBLIC WORKS:	
STRUCTURAL:	
ELEVATOR:	
ROOFING:	

SCALE: 1/8" = 1'-0"

MS ENGINEERS
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REVISIONS

No.	DATE	COMMENTS
1.	10.29.15	CITY COMMENTS
2.	12.07.15	EXIST CONDITIONS
3.	01.08.16	SITE CONDITIONS
4.	-	-
5.	-	-
6.	-	-
7.	-	-
8.	-	-
9.	-	-
10.	-	-

INTERIOR DEMOLITION TO
SINGLE FAMILY RESIDENCE
1855 CLEVELAND ROAD
MIAMI BEACH, FL 33141

DEMOLITION NOTES
&
FIRST FLOOR PLAN

DRAWN BY: JMPEP
CHECKED BY: JMPEP
DATE: 05.02.15
SCALE: NOTED

SHEET #
A-02

PLUMBING NOTES

- ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMAN LIKE MANNER SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND OR GOVERNING AUTHORITIES.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES, AND ORDINANCES.
- IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK SHOWN AND/OR NOTED ON THE DRAWINGS.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- PLUMBING CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN AND/OR NOTED ON THE DRAWINGS. THIS SHALL INCLUDE ANY AND ALL FABRICATIONS REQUIRED PRIOR TO INSTALLATION.
- IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS AS NOT TO INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.
- PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) YEAR FROM DATE OF ACCEPTANCE, UNLESS INDICATED OR SPECIFIED OTHERWISE.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR TO ORIGINAL CONDITION ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT, AND FURNISHINGS CAUSED DURING PERFORMANCE OF WORK.
- LOCATION OF PLUMBING ROUGH-IN MAY CHANGE, VERIFY EXACT LOCATION WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. DRAWINGS ARE DIAGRAMMATIC, DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
- ALL MATERIALS SHALL BE NEW AND SHALL BEAR UNDERWRITER'S LABEL WHERE AFFICABLE.
- THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTANCE BY ARCHITECT/ENGINEER MUST BE A CONDITION OF THE CONTRACT.
- ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THAT CONTRACTOR.
- THE CONTRACTOR SHALL FURNISH ALL WATER METERS UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- VERIFY LOCATION, SIZE, ELEVATION, MATERIALS, AND PRESENT STATE OF ALL EXISTING UTILITIES.
- INSTALL READILY ACCESSIBLE GATE VALVES IN ALL BRANCH WATER LINES SERVING ANY ROOM HAVING PLUMBING FIXTURES. ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE VALVES.
- MAIN WATER SUPPLY SHALL BE EQUIPPED WITH A BACK-FLOW PREVENTER WHERE REQUIRED.
- ALL THREADED WATER OUTLETS SHALL BE FURNISHED WITH Watts 15A APPROVED VACUUM BREAKERS.
- FURNISH AND INSTALL APPROVED AIR CHAMBERS AT EACH PLUMBING FIXTURE WHERE DISSIMILAR METALS ARE TO BE JOINED, APPROVED INSULATING UNIONS SHALL BE USED.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- IF THE CONTRACTOR PROPOSES TO USE ANY ARTICLE, DEVICE, PRODUCT, OR MATERIALS WHICH IS NOT AS SPECIFIED, THE CONTRACTOR SHALL BE RESPONSIBILITY TO PROVE TO THE ARCHITECT/ENGINEER THAT THE PROPOSED SUBSTITUTION IS EQUAL.
- THE PLUMBING CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
- THE PLUMBING CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL CHANGES AND DEVIATIONS, TO THE ARCHITECT/ENGINEER PRIOR TO COMPLETION OF THE PROJECT.
- PLUMBING FIXTURES TO COMPLY W/ FBC PLUMBING 406 THROUGH 421.

MAXIMUM FLOW RATES & CONSUMPTION

FIXTURE	MAX FLOW RATE
LAVATORY (PRIVATE)	15 gpm @ 60 psi
LAVATORY (PUBLIC) (M)	0.25 gal p/ METERING CYCLE
LAVATORY (PUBLIC)	0.5 gpm @ 60 psi
SHOWER HEAD	15 gpm @ 80 psi
SINK FAUCET	15 gpm @ 80 psi
URINAL	WATERLESS OR 0.5 gal p/ FLUSHING CYCLE
WATER CLOSET	120 gal p/ FLUSHING CYCLE
DISHWASHER (RES)	6.5 gal p/ CYCLE OR LESS (ENERGY STAR/WATER SENSE CERTIFIED)
DISHWASHER (COMM)	LESS 13gal p/ RACK FOR FILL & DUMP MACHINES & LESS THAN 0.8gal p/ RACK FOR ALL OTHER TYPES
DISHWASHER (U.C. MACHINE)	10gal OR LESS p/ RACK FOR HIGH-TEMP MACHINES & 17gal p/ RACK FOR LOW-TEMP MACHINES
WASHING MACHINE	WATER FACTOR OF 8 OR LOWER (ENERGY STAR/WATER SENSE CERTIFIED)

NOTES:

- TABLE AS PER MAXIMUM WATER CONSUMPTION COMPLIANCE AS PER MIAMI DADE ARTICLE III, SECTION 08-31

PLUMBING NOTES:

- SHOWER VALVES SHALL BE IN COMPLIANCE W/ TEMPERATURE CONTROL/PRESSURE BALANCE AS PER FBC-P21003, P4243
- TUB VALVE COMPLIANCE W/ TEMPERATURE CONTROL AS PER FBC-P21133
- MAXIMUM WATER CONSUMPTION TO COMPLY W/ MIAMI-DADE SEC 8-31
- PLUMBING FIXTURES SHALL COMPLY W/ STANDARDS AS PER FBC-P 406-422

SANITARY SIZING CALCULATION

FIXTURE TYPE	NO.	F.U. EACH	TOTAL
LAVATORY	1	1	1
WATER CLOSET	1	4	4
SHOWERS (5.7gpm OR LESS)	2	2	4
KITCHEN SINK	-	2	-
DISH WASHER	-	2	-
BATH TUB	-	2	-
NOTES:			9
1. TOTAL (F.B.C. TABLE 109.1) 4" MIN BUILDING SANITARY LINE REQUIRED			

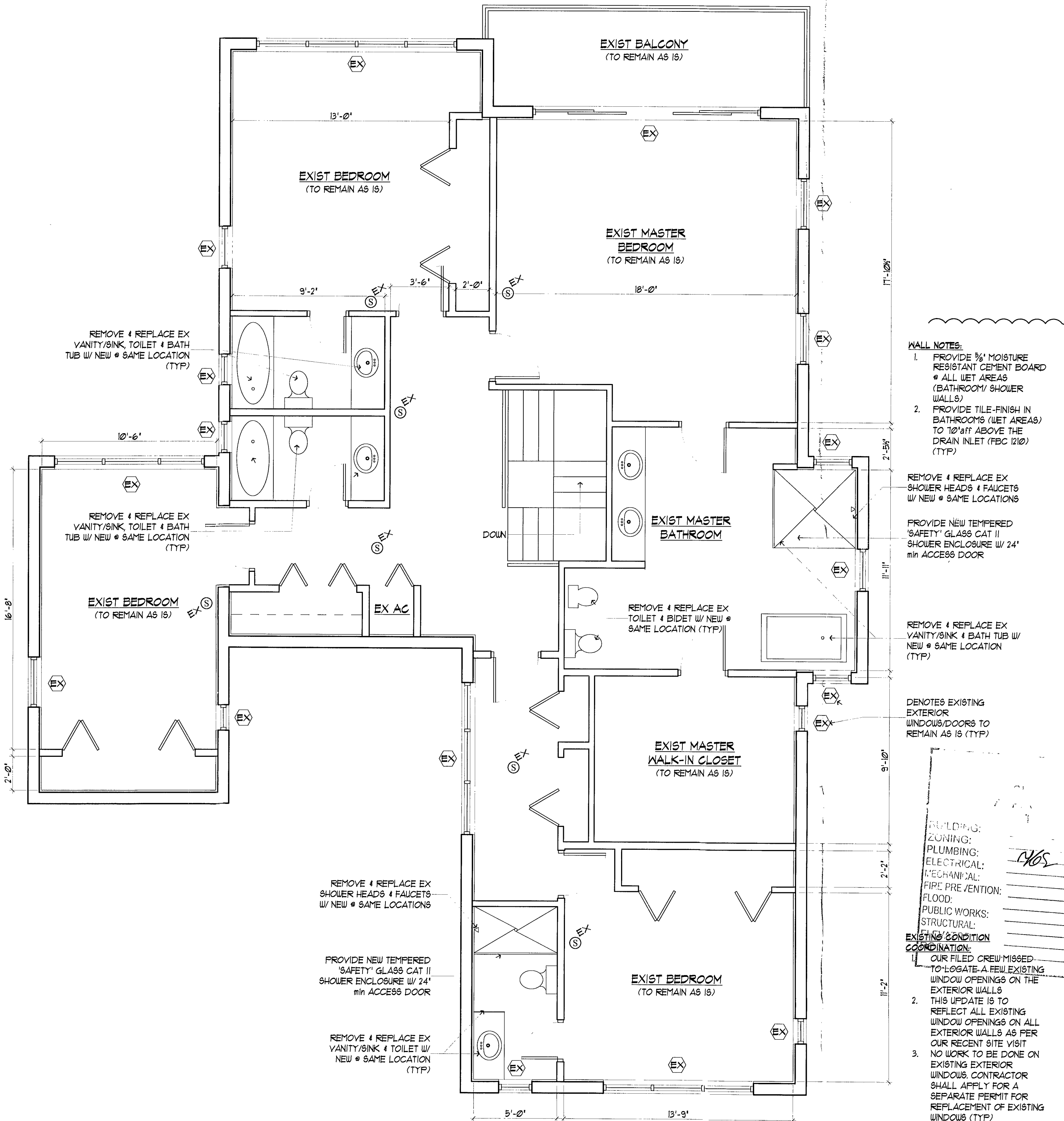
PIPE SIZE	MIN SLOPE (INCH PER FOOT)
2 1/2" OR LESS	1/4"
3" TO 6"	1/8"
8" OR LARGER	1/16"

PLUMBING FIXTURE SCHEDULE

NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	DRAIN	WATER		REMARKS
					COLD	HOT	
-	LAVATORY	(BY OWNER)	BY OWNER	1/2"	1/2"	1/2"	-
-	WATER CLOSET	(BY OWNER)	BY OWNER	3"	1/2"	-	-
-	SHOWER	(BY OWNER)	BY OWNER	1/2"	1/2"	1/2"	-
-	KITCHEN SINK	(BY OWNER)	BY OWNER	1/2"	1/2"	1/2"	-
-	DISH WASHER	(BY OWNER)	BY OWNER	2"	1/2"	1/2"	-

NOTES:

- OR EQUAL WITH APPROVED SHOP DUGS (CUT SHEETS) BY OWNER & D.O.R.
- WALL HUNG FIXTURES SHALL BE SUPPORTED W/ WALL BLOCKING AS PER F.B.C. 25103.11, 25103.3
- FINAL BATH/SHOWER FINISHES & FIXTURE SELECTION TO BE APPROVED BY OWNER & D.O.R.



WALL NOTES:

- PROVIDE 3/4" MOISTURE RESISTANT CEMENT BOARD @ ALL WET AREAS (BATHROOM/SHOWER WALLS)
- PROVIDE TILE FINISH IN BATHROOMS (WET AREAS) TO 10" AIT ABOVE THE DRAIN INLET (FBC 1210) (TYP)

REMOVE & REPLACE EX SHOWER HEADS & FAUCETS W/ NEW @ SAME LOCATIONS

PROVIDE NEW TEMPERED SAFETY GLASS CAT II SHOWER ENCLOSURE W/ 24" MIN ACCESS DOOR

REMOVE & REPLACE EX VANITY/SINK & BATH TUB W/ NEW @ SAME LOCATION (TYP)

DENOTES EXISTING EXTERIOR WINDOWS/DOORS TO REMAIN AS IS (TYP)

EACH PERMIT BY ANG:

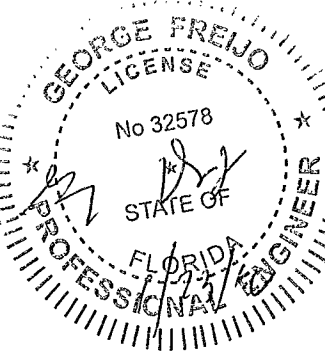
BUILDING:
ZONING:
PLUMBING:
ELECTRICAL:
MECHANICAL:
PIPE PREVENTION:
FLOOD:
PUBLIC WORKS:
STRUCTURAL:

EXISTING CONDITION COORDINATION:

- OUR FILED CREW MISSED TO LOGGATE A FEW EXISTING WINDOW OPENINGS ON THE EXTERIOR WALLS
- THIS UPDATE IS TO REFLECT ALL EXISTING WINDOW OPENINGS ON ALL EXTERIOR WALLS AS PER OUR RECENT SITE VISIT
- NO WORK TO BE DONE ON EXISTING EXTERIOR WINDOWS. CONTRACTOR SHALL APPLY FOR A SEPARATE PERMIT FOR REPLACEMENT OF EXISTING WINDOWS (TYP)

MS ENGINEERS

GEORGE FRIEJO, P.E.
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REVISIONS

No.	DATE	COMMENTS
1.	10.25.15	CITY COMMENTS
2.	12.07.15	EXIST CONDITIONS
3.	01.06.16	SITE CONDITIONS
4.	01.18.16	CITY COMMENTS
5.	-	-
6.	-	-
7.	-	-
8.	-	-
9.	-	-
10.	-	-

BATHROOM UPGRADES TO
SINGLE FAMILY RESIDENCE
1855 CLEVELAND ROAD
MIAMI BEACH, FL 33141

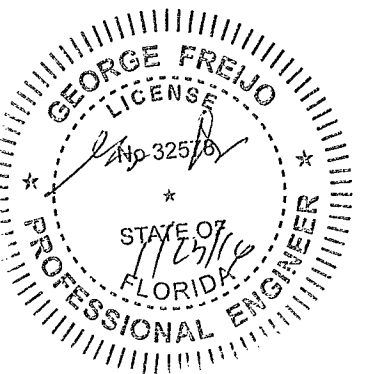
SECOND FLOOR
PLAN

DRAWN BY: JMEP
CHECKED BY: JMEP
DATE: 05.02.15
SCALE: NOTED

SHEET #

A-03

MS ENGINEERS
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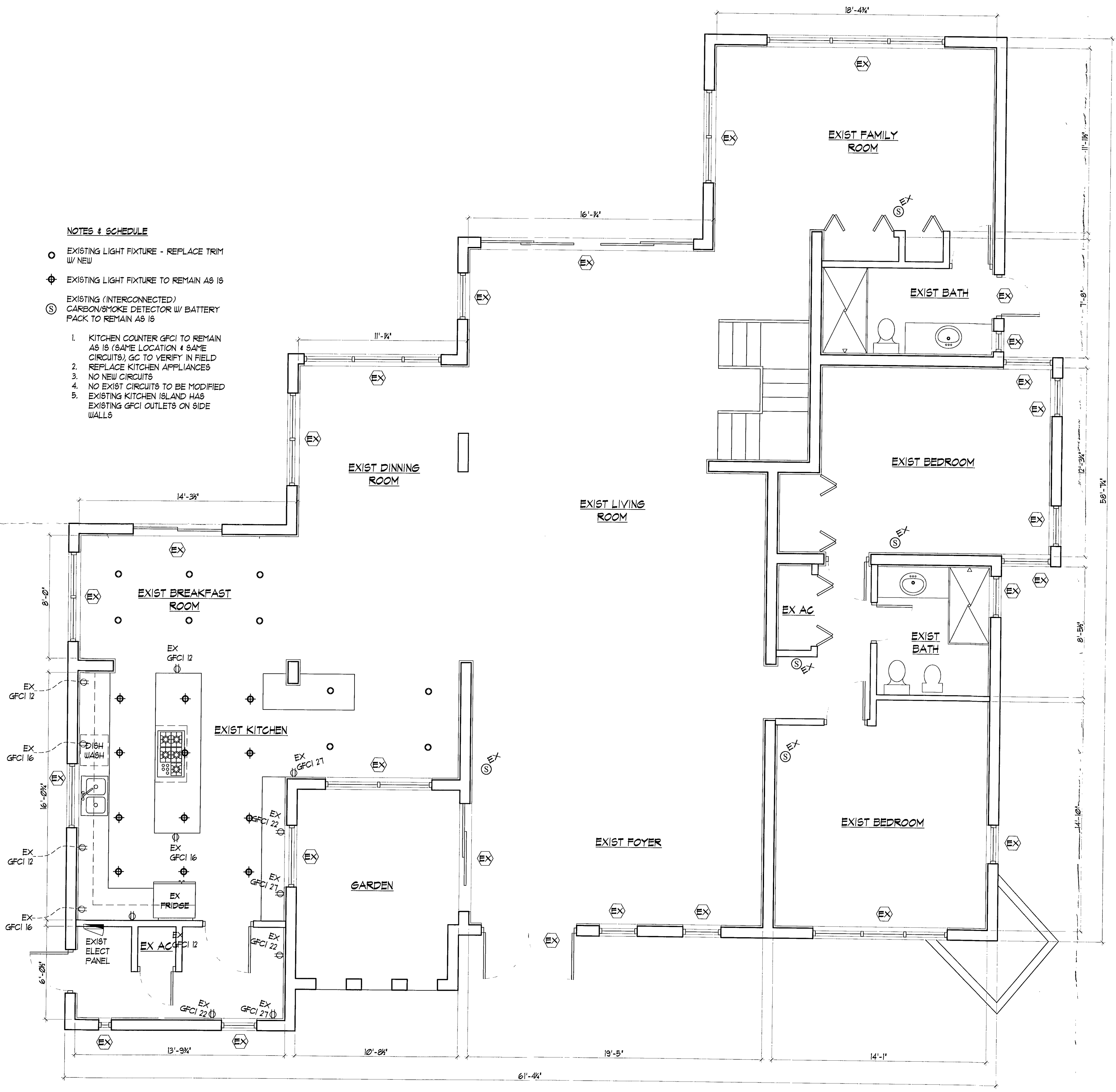
REVISIONS		
No.	DATE	COMMENTS
1.	01.18.16	CITY COMMENTS
2.	-	-
3.	-	-
4.	-	-
5.	-	-
6.	-	-
7.	-	-
8.	-	-
9.	-	-
10.	-	-

BATHROOM UPGRADES TO
SINGLE FAMILY RESIDENCE
1855 CLEVELAND ROAD
MIAMI BEACH, FL 33141

ELECTRICAL PLAN

DRAWN BY: JMPEP
CHECKED BY: JMPEP
DATE: 05.02.15
SCALE: NOTED

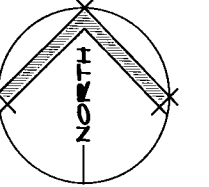
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A-04



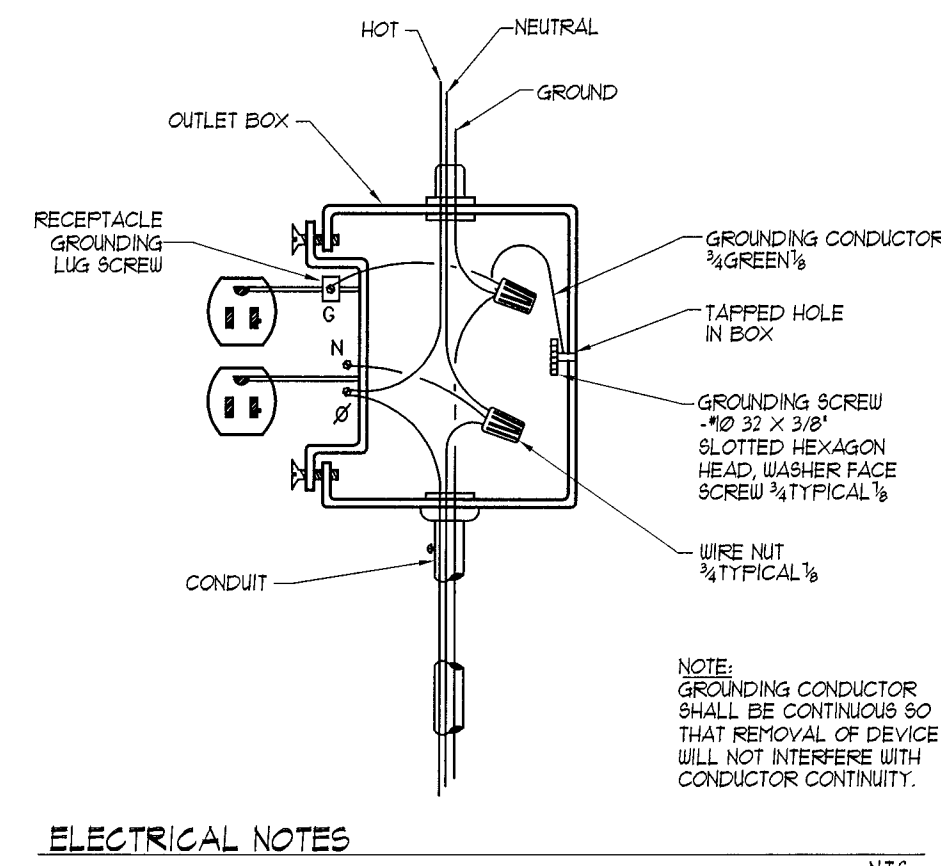
- NOTES & SCHEDULE
- EXISTING LIGHT FIXTURE - REPLACE TRIM W/ NEW
 - ⊕ EXISTING LIGHT FIXTURE TO REMAIN AS IS
 - Ⓢ EXISTING (INTERCONNECTED) CARBON/SMOKE DETECTOR W/ BATTERY PACK TO REMAIN AS IS
 - 1. KITCHEN COUNTER GFCI TO REMAIN AS IS (SAME LOCATION & SAME CIRCUITS), GC TO VERIFY IN FIELD
 - 2. REPLACE KITCHEN APPLIANCES
 - 3. NO NEW CIRCUITS
 - 4. NO EXIST CIRCUITS TO BE MODIFIED
 - 5. EXISTING KITCHEN ISLAND HAS EXISTING GFCI OUTLETS ON SIDE WALLS

JOB COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING: _____
ZONING: _____
PLUMBING: _____
ELECTRICAL: _____
MECHANICAL: _____
FIRE PREVENTION: _____
FLOOD: _____
PUBLIC WORKS: _____
STRUCTURAL: _____
ELEVATOR: _____
ROOFING: _____



SCALE: 1/4" = 1'-0"

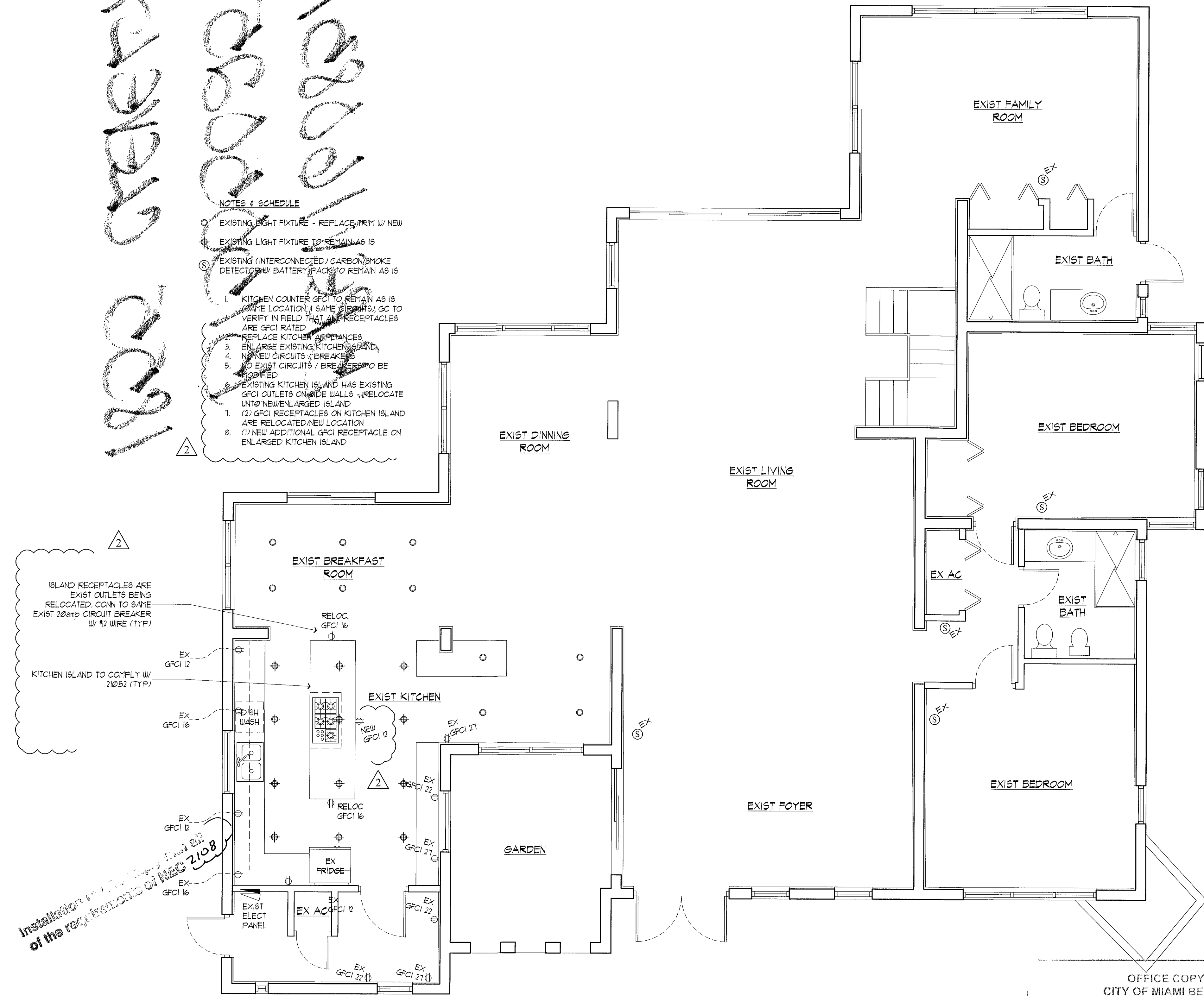


1200 GREENVIEW

1200 GREENVIEW

1200 GREENVIEW

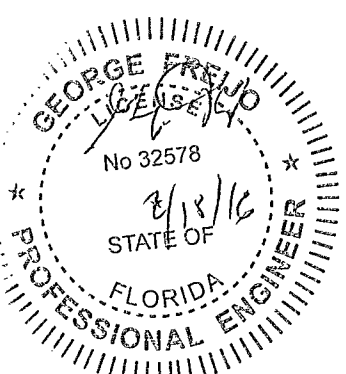
- NOTES & SCHEDULE**
- EXISTING LIGHT FIXTURE - REPLACE/TRIM W/ NEW
 - EXISTING LIGHT FIXTURE TO REMAIN AS IS
 - EXISTING (INTERCONNECTED) CARBON/SMOKE DETECTOR W/ BATTERY PACK TO REMAIN AS IS
 - KITCHEN COUNTER GFCI TO REMAIN AS IS (SAME LOCATION & SAME CIRCUITS) GFCI TO VERIFY IN FIELD THAT ALL RECEPTACLES ARE GFCI RATED
 - REPLACE KITCHEN APPLIANCES
 - ENLARGE EXISTING KITCHEN ISLAND
 - NO NEW CIRCUITS / BREAKERS
 - NO EXIST CIRCUITS / BREAKERS TO BE ADDED
 - EXISTING KITCHEN ISLAND HAS EXISTING GFCI OUTLETS ON SIDE WALLS - RELOCATE INTO NEW ENLARGED ISLAND
 - (2) GFCI RECEPTACLES ON KITCHEN ISLAND ARE RELOCATED/NEW LOCATION
 - (1) NEW ADDITIONAL GFCI RECEPTACLE ON ENLARGED KITCHEN ISLAND



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CITY OF MIAMI BEACH
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THE FOLLOWING:

BUILDING:	
ZONING:	
PLUMBING:	
ELECTRICAL:	2-24-16
MECHANICAL:	
FIRE PREVENTION:	
FLOOD:	
PUBLIC WORKS:	
STRUCTURAL:	
ELEVATOR:	
ROOFING:	

MS ENGINEERS
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REVISIONS		
No.	DATE	COMMENTS
1.	01.18.16	CITY COMMENTS
2.	02.17.16	CITY COMMENTS
3.	-	-
4.	-	-
5.	-	-
6.	-	-
7.	-	-
8.	-	-
9.	-	-
10.	-	-

BATHROOM UPGRADES TO
SINGLE FAMILY RESIDENCE
1855 CLEVELAND ROAD
MIAMI BEACH, FL 33141

ELECTRICAL PLAN

DRAWN BY: JMEP
CHECKED BY: JMEP
DATE: 05.02.15
SCALE: NOTED

1 2 SHEET #
E-OI

000
01-05-00

BREV 16085/
B1505025
1855 CLEVELAND RD