

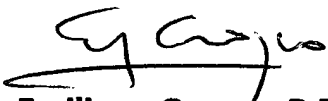
STRUCTURAL CALCULATIONS

PROJECT: NEW DOORS AND WINDOWS FOR MR. SALOMON BUILDING

ADDRESS: 6971 CARLYLE AVENUE, MIAMI BEACH, FL., 33141

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- 1- WIND DESIGN CRITERIA
- 2- WIND LOADS CALCULATIONS/PER ASCE 7-10
- 3- WIND PRESSURES FOR NEW WINDOWS & DOORS
- 4- MIAMI DADE COUNTY NOA's WINDOWS & DOORS


Emiliano Orozco, P.E.
PE No. 66341

MECAWind Version 2.1.0.6 per ASCE 7-10

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Date : 3/3/2016 Project No. :
Company Name : Designed By :
Address : Description : WINDOWS AND DOORS
City : Customer Name : Mr. Salomon
State : Proj Location : 6971 Carlyle Ave., Miami Beach
File Location: C:\Lidia Projects\Ven Carlyle\Ven Carlyle.wnd

Directional Procedure Simplified Diaphragm Building (Ch 27 Para. 2)

All pressures shown are based upon ASD Design, with a Load Factor of 1.6

Basic Wind Speed(V)	=	175.00 mph	Exposure Category	=	D
Structural Category	=	II	Flexible Structure	=	No
Natural Frequency	=	N/A	Kd Directional Factor	=	0.85
Importance Factor	=	1.00			
Damping Ratio (beta)	=	0.01			
Alpha	=	11.50	Zg	=	700.00 ft
At	=	0.09	Bt	=	1.07
Am	=	0.11	Bm	=	0.80
Cc	=	0.15	l	=	650.00 ft
Epsilon	=	0.13	Zmin	=	7.00 ft
Slope of Roof	=	0 : 12	Slope of Roof(Theta)	=	.00 Deg
Ht: Mean Roof Ht	=	25.00 ft	Type of Roof	=	Monoslope
RHt: Ridge Ht	=	25.00 ft	Eht: Eave Height	=	25.00 ft
OH: Roof Overhang at Eave	=	.00 ft	Roof Area	=	2970.00 ft ²
Bldg Length Along Ridge	=	110.00 ft	Bldg Width Across Ridge	=	27.00 ft

Gust Factor Category I Rigid Structures - Simplified Method

Gust1: For Rigid Structures (Nat. Freq.>1 Hz) use 0.85 = 0.85

Gust Factor Category II Rigid Structures - Complete Analysis

Zm:	0.6*Ht	=	15.00 ft
lzm:	Cc*(33/Zm)^0.167	=	0.17
Lzm:	1*(Zm/33)^Epsilon	=	588.99 ft
Q:	(1/(1+0.63*((B+Ht)/Lzm)^0.63))^0.5	=	0.94
Gust2:	0.925*((1+1.7*lzm*3.4*Q)/(1+1.7*3.4*lzm))	=	0.90

Gust Factor Summary

Not a Flexible Structure use the Lessor of Gust1 or Gust2 = 0.85

Table 26.11-1 Internal Pressure Coefficients for Buildings, GCpi

GCpi : Internal Pressure Coefficient = +/-0.18

Topographic Adjustment

0.33*z	=	8.25
Kzt (0.33*z): Topographic factor at elevation 0.33*z	=	1.00
Vtopo: Adjust V per Para 27.5.2: V * [Kzt(0.33*z)]^0.5	=	175.00 mph

Net Wind Pressures on Walls (Table 27.6-1)

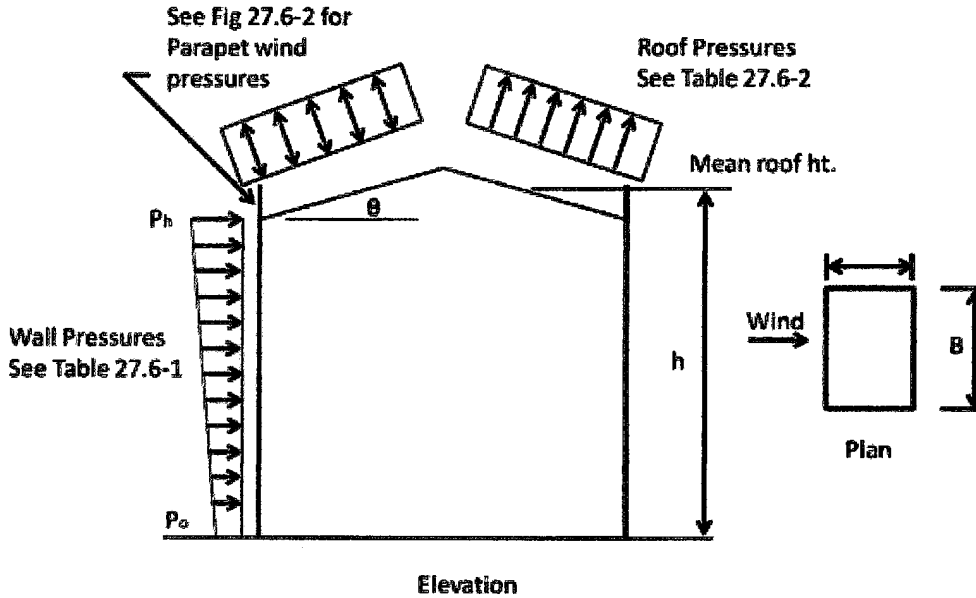
Wall Pressures do not include effect of internal pressure

MWFRS-Wall Pressures for Wind Normal to 27 ft wall

L/B	=	4.07
ph: Net Pressure at top of wall (windward + leeward)	=	45.29 psf
p0: Net Pressure at bottom of wall (windward + leeward)	=	43.64 psf
ps: Side wall pressure acting uniformly outward = .64 * ph	=	28.98 psf
pl: Leeward wall pressure acting uniformly outward = .27 * ph	=	12.23 psf
pwh: Windward wall pressure acting uniformly outward = ph-pl	=	33.06 psf
pw0: Windward wall pressure acting uniformly outward = p0-pl	=	31.42 psf

MWFRS-Wall Pressures for Wind Normal to 110 ft wall

L/B = 0.25
 ph: Net Pressure at top of wall (windward + leeward) = 51.94 psf
 p0: Net Pressure at bottom of wall (windward + leeward) = 50.85 psf
 ps: Side wall pressure acting uniformly outward = $.54 * ph$ = 28.05 psf
 pl: Leeward wall pressure acting uniformly outward = $.38 * ph$ = 19.74 psf
 pwh: Windward wall pressure acting uniformly outward = $ph - pl$ = 32.20 psf
 pw0: Windward wall pressure acting uniformly outward = $p0 - pl$ = 30.61 psf

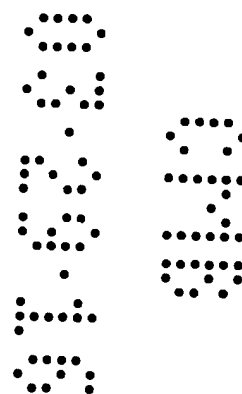
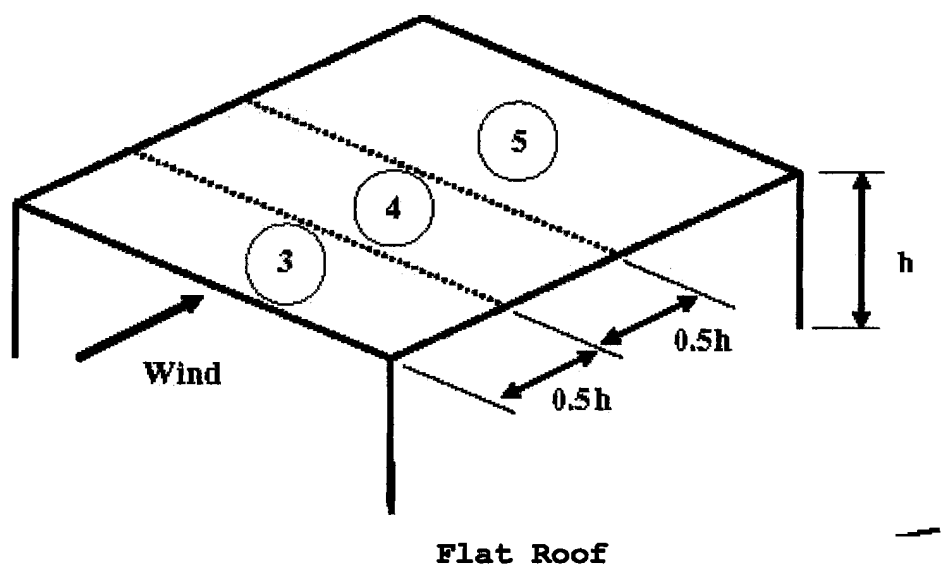


Net Wind Pressures on Roof (Table 27.6-2):

Exposure Adjustment Factor = 1.192

Zone	Load Case1 psf	Load Case2 psf
1	.00	.00
2	.00	.00
3	-47.71	.00
4	-42.53	.00
5	-34.89	.00

Note: A value of '0' indicates that the zone/load case is not applicable.

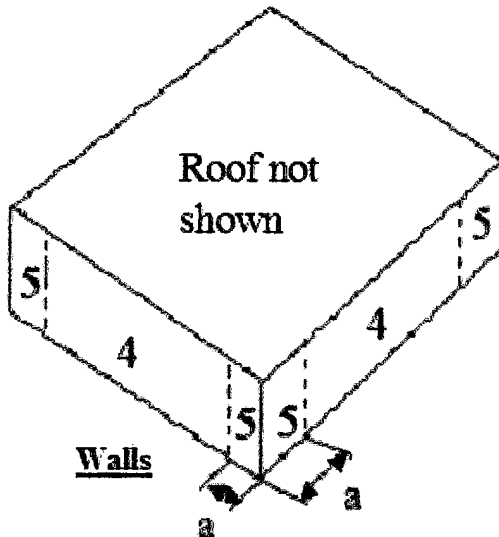


MECAWind Version 2.1.0.6 ASCE 7-10

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Date : 3/3/2016
 Company Name :
 Address :
 City :
 State :
 File Location: C:\Lidia Projects\Ven Carlyle\Ven Carlyle.wnd

Project No. :
 Designed By :
 Description : WINDOWS AND DOORS
 Customer Name : Mr. Salomon
 Proj Location : 6971 Carlyle Ave., Miami Beach



a↑	3	2	2	3
	2	1	1	2
a↑	3	2	2	3

Gable Roof $\theta \leq 7$

Wind Pressure on Components and Cladding (Ch 30 Part 1)

All pressures shown are based upon ASD Design, with a Load Factor of .6

Width of Pressure Coefficient Zone "a" = 3 ft

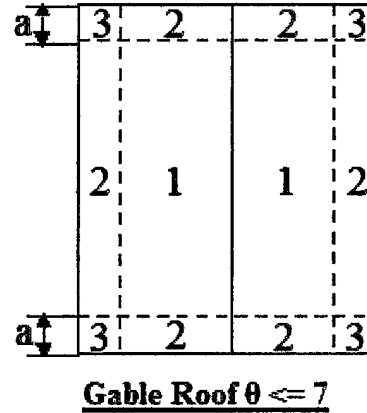
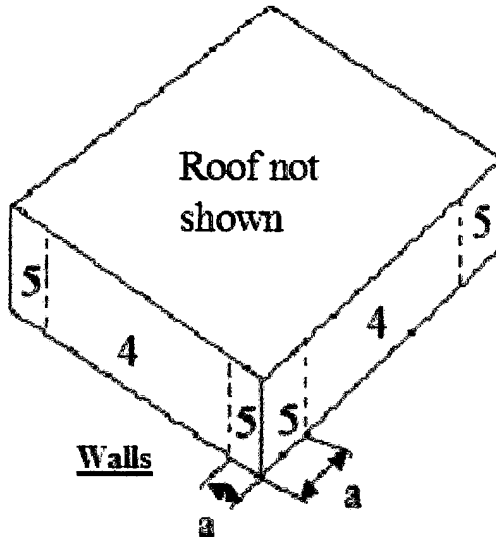
Description	Width ft	Span ft	Area Zone ft ²	Max GCp	Min GCp	Max P psf	Min P psf
WINDOW A	2.42	6.92	16.7 4	0.86	-0.95	47.02	-51.07
WINDOW B	9.25	4.16	38.5 4	0.81	-0.90	44.43	-48.49
WINDOW C	5.50	4.16	22.9 4	0.84	-0.93	46.05	-50.10
WINDOW C	5.50	4.16	22.9 5	0.84	-1.15	46.05	-59.68
WINDOW D	4.20	4.16	17.5 4	0.86	-0.95	46.89	-50.94
WINDOW D	4.20	4.16	17.5 5	0.86	-1.18	46.89	-61.36
WINDOW E	5.33	4.16	22.2 4	0.85	-0.94	46.15	-50.20
WINDOW E	5.33	4.16	22.2 5	0.85	-1.15	46.15	-59.88
WINDOW F	2.70	4.16	11.2 4	0.89	-0.98	48.26	-52.31
WINDOW F	2.70	4.16	11.2 5	0.89	-1.24	48.26	-64.11
WINDOW G	1.54	3.16	4.9 4	0.90	-0.99	48.62	-52.67
WINDOW G	1.54	3.16	4.9 5	0.90	-1.26	48.62	-64.83
WINDOW H	3.08	4.16	12.8 4	0.88	-0.97	47.85	-51.90
WINDOW H	3.08	4.16	12.8 5	0.88	-1.23	47.85	-63.29
WINDOW I	4.62	4.16	19.2 4	0.85	-0.94	46.59	-50.64
WINDOW I	4.62	4.16	19.2 5	0.85	-1.17	46.59	-60.77
WINDOW J	3.83	4.16	15.9 4	0.87	-0.96	47.17	-51.23
WINDOW J	3.83	4.16	15.9 5	0.87	-1.20	47.17	-61.93
WINDOW K	3.08	4.16	12.8 4	0.88	-0.97	47.85	-51.90
WINDOW K	3.08	4.16	12.8 5	0.88	-1.23	47.85	-63.29
WINDOW L	1.54	3.16	4.9 4	0.90	-0.99	48.62	-52.67
WINDOW L	1.54	3.16	4.9 5	0.90	-1.26	48.62	-64.83
DOOR 1	3.33	6.92	23.0 4	0.84	-0.93	46.03	-50.08
DOOR 2	3.33	6.83	22.7 4	0.84	-0.93	46.07	-50.12

MECAWind Version 2.1.0.6 ASCE 7-10

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Date : 3/3/2016
 Company Name :
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 File Location: C:\Lidia Projects\Ven Carlyle\Ven Carlyle.wnd

Project No. :
 Designed By :
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 Customer Name : Mr. Salomon
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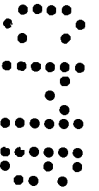
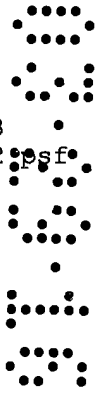
Wind Pressure on Components and Cladding (Ch 30 Part 1)

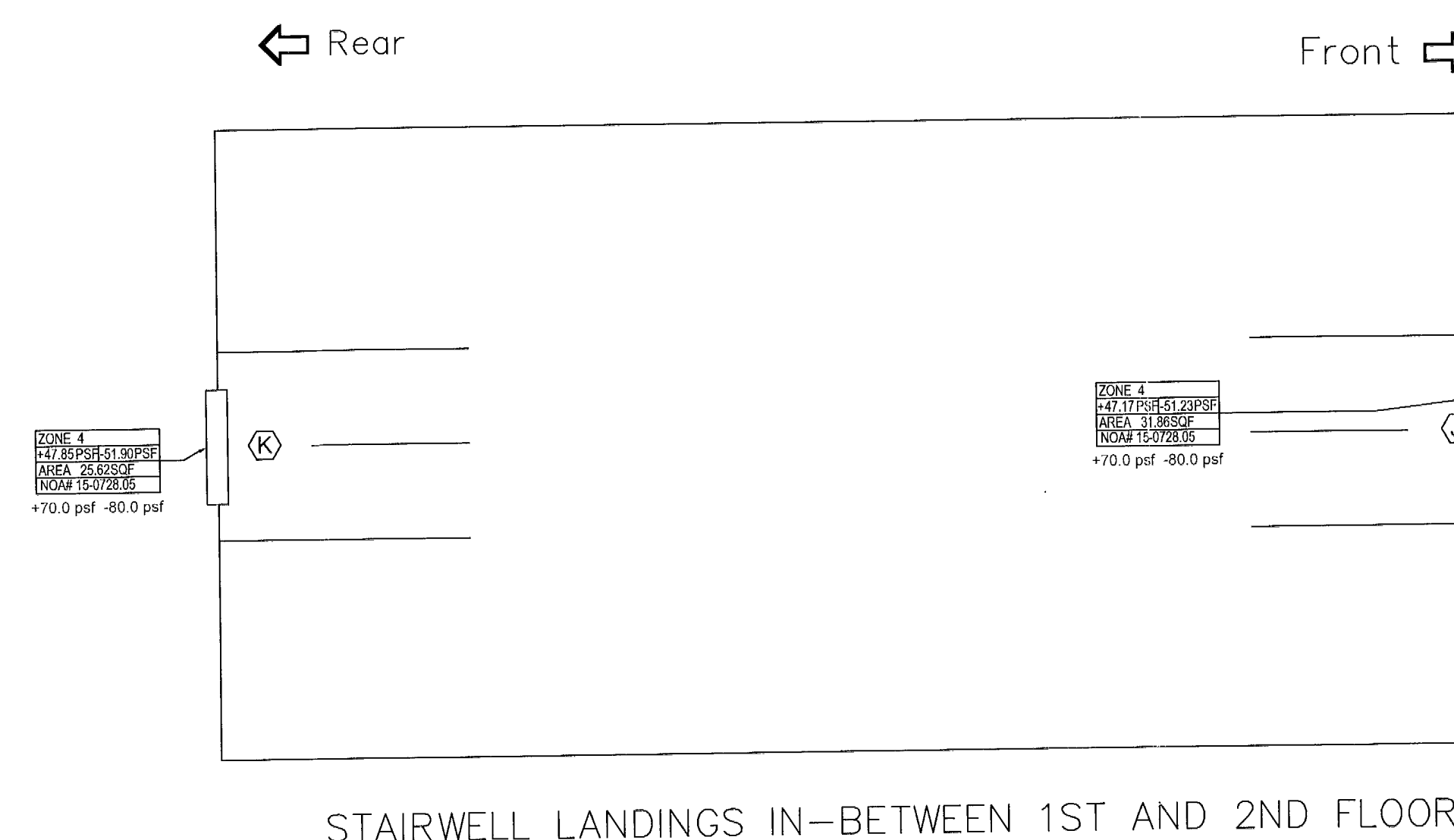
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WINDOW B	9.25	4.16	38.5 4	0.81	-0.90	44.43	-48.49	
WINDOW C	5.50	4.16	22.9 4	0.84	-0.93	46.05	-50.10	
WINDOW C	5.50	4.16	22.9 5	0.84	-1.15	46.05	-59.68	
WINDOW D	4.20	4.16	17.5 4	0.86	-0.95	46.89	-50.94	
WINDOW D	4.20	4.16	17.5 5	0.86	-1.18	46.89	-61.36	
WINDOW E	5.33	4.16	22.2 4	0.85	-0.94	46.15	-50.20	
WINDOW E	5.33	4.16	22.2 5	0.85	-1.15	46.15	-59.88	
WINDOW F	2.70	4.16	11.2 4	0.89	-0.98	48.26	-52.31	
WINDOW F	2.70	4.16	11.2 5	0.89	-1.24	48.26	-64.11	
WINDOW G	1.54	3.16	4.9 4	0.90	-0.99	48.62	-52.67	
WINDOW G	1.54	3.16	4.9 5	0.90	-1.26	48.62	-64.83	
WINDOW H	3.08	4.16	12.8 4	0.88	-0.97	47.85	-51.90	
WINDOW H	3.08	4.16	12.8 5	0.88	-1.23	47.85	-63.29	
WINDOW I	4.62	4.16	19.2 4	0.85	-0.94	46.59	-50.64	
WINDOW I	4.62	4.16	19.2 5	0.85	-1.17	46.59	-60.77	
WINDOW J	3.83	4.16	15.9 4	0.87	-0.96	47.17	-51.23	
WINDOW J	3.83	4.16	15.9 5	0.87	-1.20	47.17	-61.93	
WINDOW K	3.08	4.16	12.8 4	0.88	-0.97	47.85	-51.90	
WINDOW K	3.08	4.16	12.8 5	0.88	-1.23	47.85	-63.29	
WINDOW L	1.54	3.16	4.9 4	0.90	-0.99	48.62	-52.67	
WINDOW L	1.54	3.16	4.9 5	0.90	-1.26	48.62	-64.83	
DOOR 1	3.33	6.92	23.0 4	0.84	-0.93	46.03	-50.08	
DOOR 2	3.33	6.83	22.7 4	0.84	-0.93	46.07	-50.12	

Khcc:Comp. & Clad. Table 6-3 Case 1
Qhcc:.00256*V^2*Khcc*Kht*Kd

= 1.13
= 45.02 psf



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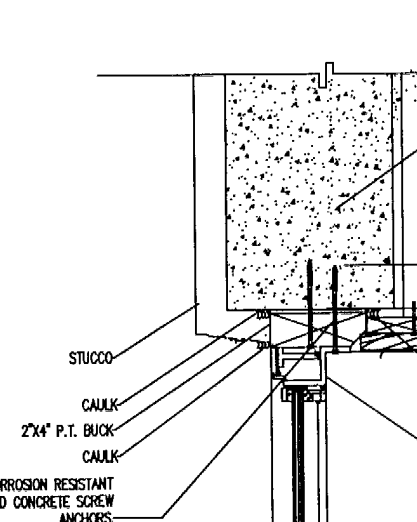
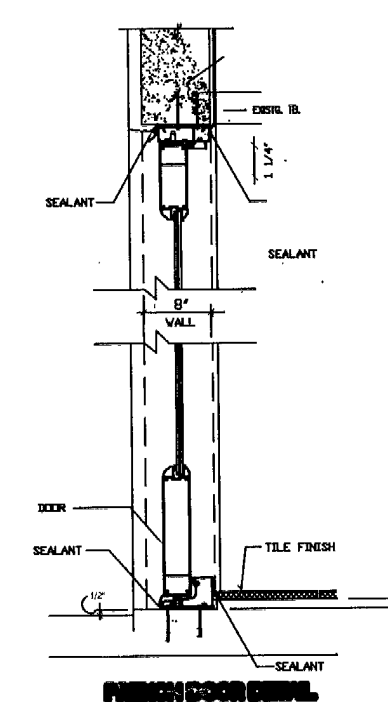
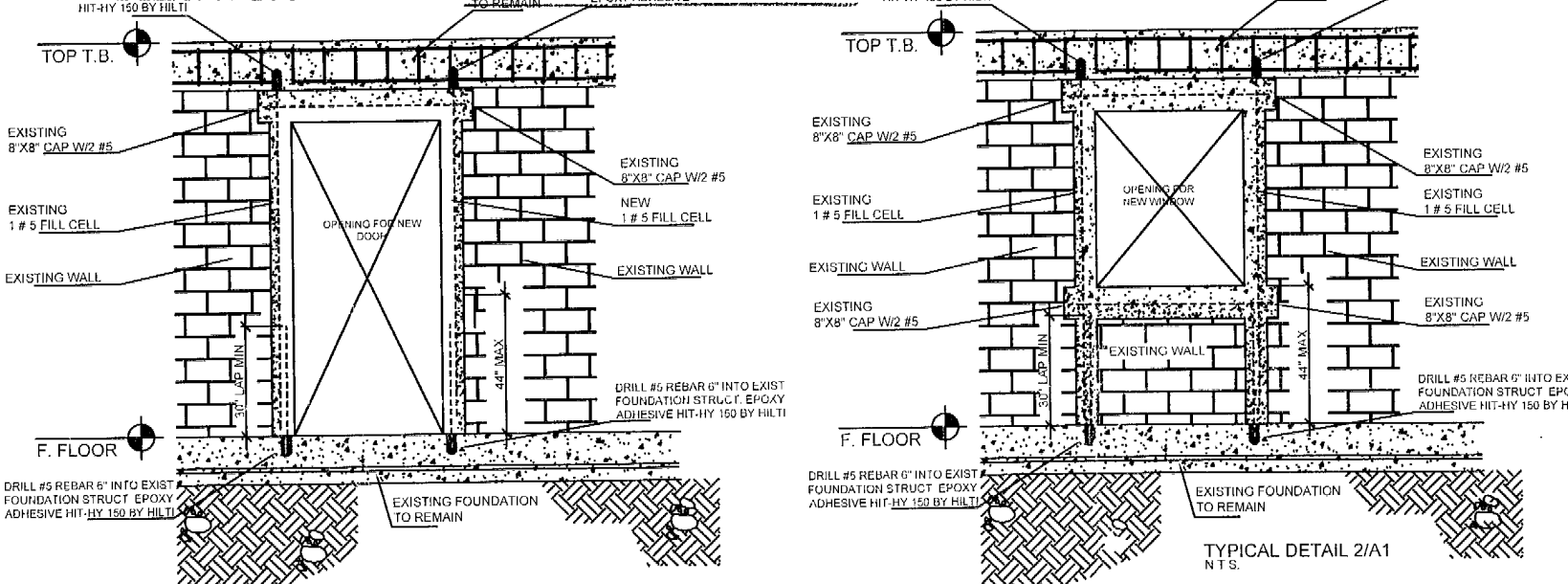
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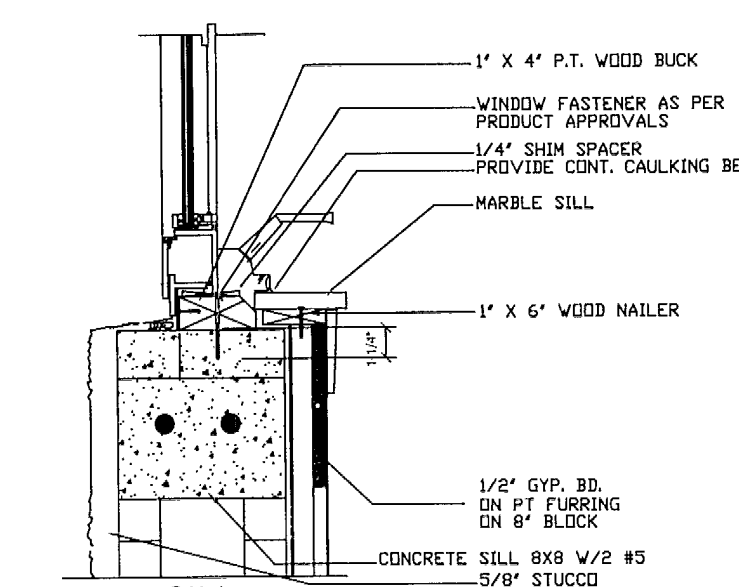
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CITY OF MIAMI-BEACH
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THE FOLLOWING:

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DRB/HPB:
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ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
STRUCTURAL:
ELEVATOR:

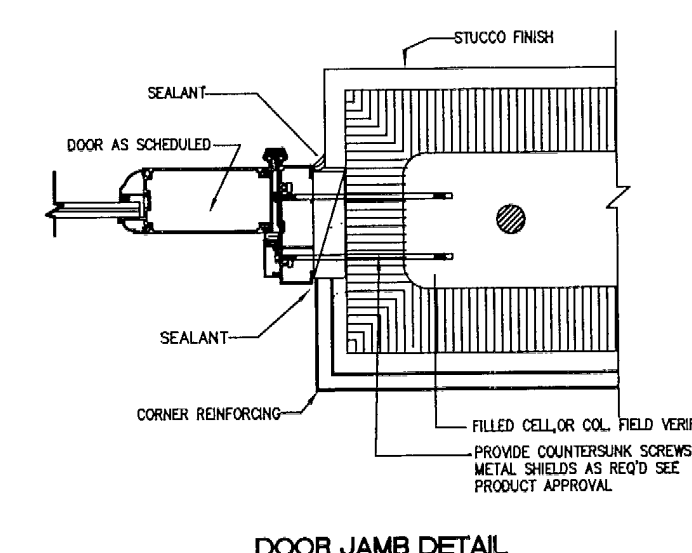
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TYPICAL WINDOW DETAIL



WINDOW AND DOOR BUCK DETAIL



DOOR JAMB DETAIL

NO DOOR IN THE PATH OF TRAVEL OF MEANS OF ESCAPE SHALL BE LESS THAN 32" WIDE, EXCEPT THAT BATHROOM DOORS MAY BE 24" WIDE, UNLESS A LARGER DOOR OPENING IS REQUIRED TO SATISFY THE REQUIREMENTS OF SECTION 511 OF THE F.B.C. 2004. EVERY CLOSET DOOR LATCH SHALL BE SUCH THAT CHILDREN CAN OPEN THE DOOR FROM INSIDE THE CLOSET.

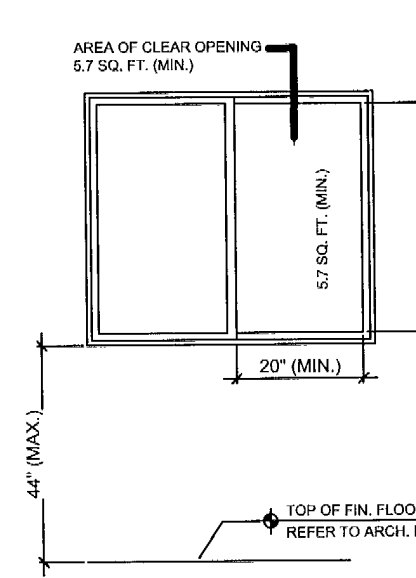
NO BATHROOM DOOR SHALL BE DESIGNED TO PERMIT THE OPENING OF THE LOCKED DOOR FROM THE OUTSIDE IN AN EMERGENCY.

DOORS MAY BE SWINGING OR SLIDING, AND ARE EXEMPT FROM THE REQUIREMENTS OF SECTION 21-2.3 AND 21-2.4 OF THE 1994 ED. OF NPSA, 101 TIT. 24, CH. 21, SEC. 2.3 AND 2.4, UNLESS THE DOOR IS BEING AGAINST PRESSURE, IN WHICH IN ANY MEANS OF ESCAPE, A LOCKING DEVICE SHALL BE PROHIBITED.

IF THE LOCKING DEVICE IS SUCH THAT IT MAY BE USED TO IMPED OR PROHIBIT EGRESS, OR DOOR CAN NOT BE EASILY OPENED SHALL BE PROHIBITED



City of Miami Beach
Fire Prevention Division
PLANS APPROVED



EGRESS WINDOW NOTES:
AN OUTSIDE WINDOW OR DOOR OPERABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS AND PROVIDING A CLEAR OPENING OF NOT LESS THAN 20 IN. (50.8 CM) IN WIDTH, 24 IN. (61 CM) IN HEIGHT, AND 5.7 SQ. FT. (0.53) IN AREA. THE BOTTOM OF THE OPENING SHALL BE NO MORE THAN 44 IN. (112 CM) ABOVE THE FLOOR. AS PER N.F.P.A. 101 SECT. 22-2.2.3 (C)

OPERABLE WINDOWS SHALL BE PROTECTED AS FOLLOWS:
WHERE THERE IS DROP OF MORE THAN 4'-0" ON THE FAR SIDE OF SUCH WINDOWS AND THE SILL IS LESS THAN 36" ABOVE THE NEAR SIDE WALKING SURFACE, SAFEGUARDS SHALL BE PROVIDED TO PREVENT THE FALL OF PERSONS WHEN SUCH WINDOWS ARE OPEN AS PER SECT. 3508.3 (E) (1) (APPLICABLE IN 2ND FLOOR WINDOWS ONLY)

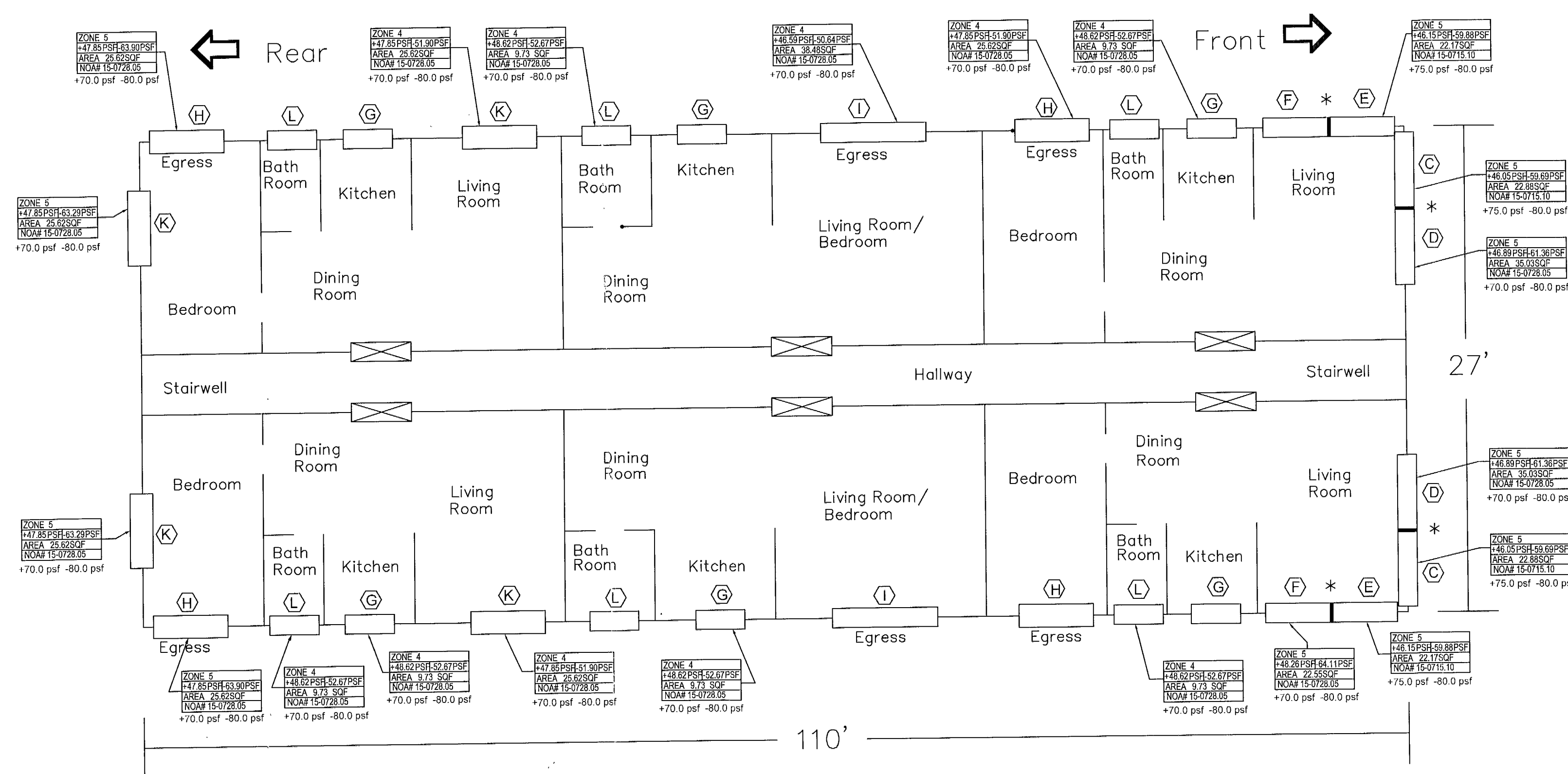
IF THE DESIGN PRESSURES IN THE WINDOW DOES NOT EXCEED 65 PSF, SECURE THE 2" WOOD BOUC TO THE STRUCTURE USING 1/4" X 3 1/4" CORROSION RESISTANCE APPROVED CONCRETE ANCHORS WITH A MINIMUM EMBEDMENT OF 1 1/4" @ 15° O.C. (6" FROM THE END) ON EACH SIDE OF THE WINDOW. IF THE DESIGN PRESSURE EXCEEDS 65 PSF, ASTM C-90 CONCRETE BOLTS OR SECURE THE WINDOW DIRECTLY TO THE STRUCTURE WITH 1/4"x3 1/4" CORROSION RESISTANT APPROVED CONCRETE ANCHORS WITH A MINIMUM EMBEDMENT OF 1 1/4" @ 15° O.C. AS NOTED AS IT IS ON THE NOTICE OF ACCEPTANCE. A NOMINAL 1"x3" P.T. WOOD SPACER SHALL BE USED BETWEEN THE WINDOW AND THE STRUCTURE BUT THE EMBEDMENT IN THE CONCRETE BLOCK SHALL REMAIN TO BE 1 1/4" IN.

ALL 2" WOOD BOUC END/OR 1"x3" WOOD SPACER SHALL BE PROPERLY CAULKED.

KEEP THE INSTALLATION INSTRUCTIONS FOR THE SPECIFIC PRODUCT BEING INSTALLED SHOWN, SLIVER, AND SQUARE TO ENSURE PROPER OPERATION.

FILL VOID BETWEEN WINDOW AND WOOD BOUC WITH INSULATION, BEING CAREFUL NOT TO BOW WINDOW FRAME.

APPLY A CONTINUOUS BEAD OF URETHANE SEALANT AROUND WINDOW FRAME TO PREVENT WEATHER INTRUSION FOR SURFACE PREP, APPLICATION, AND INSTALLATION.



* 2x4 Standard Mullion 50" Long
NOA 14-0529.16

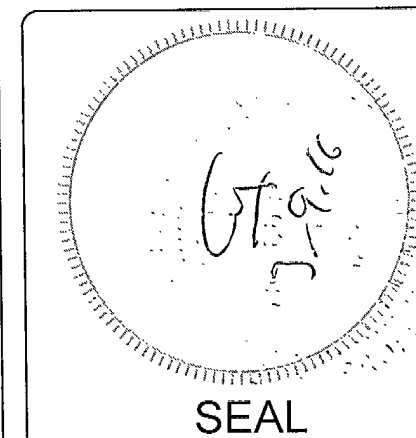
TYPICAL 1ST AND 2ND FLOOR

EMILIANO OROZCO P.E.

WINDOWS AND DOOR SCHEDULE, FLOOR PLANS AND DETAILS

VEN CARI YI E I L C.

6971 CARLYLE AVE.
MIAMI BEACH, FL., 33141



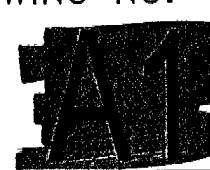
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SCALE

DESIGNED
EO

DRAWN

DRAWING NO.



SHEET 1 OF 1

APR 30 1984

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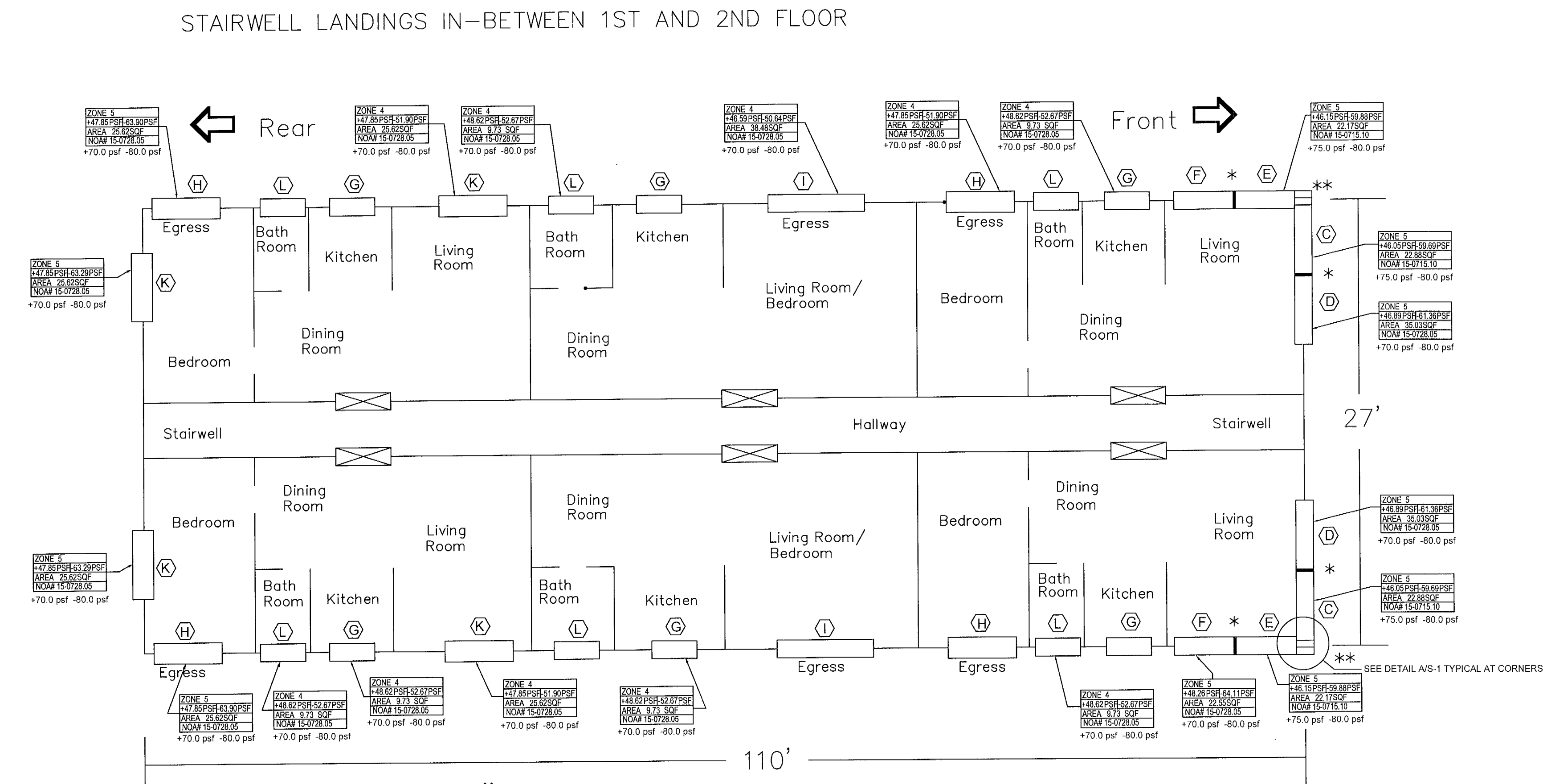
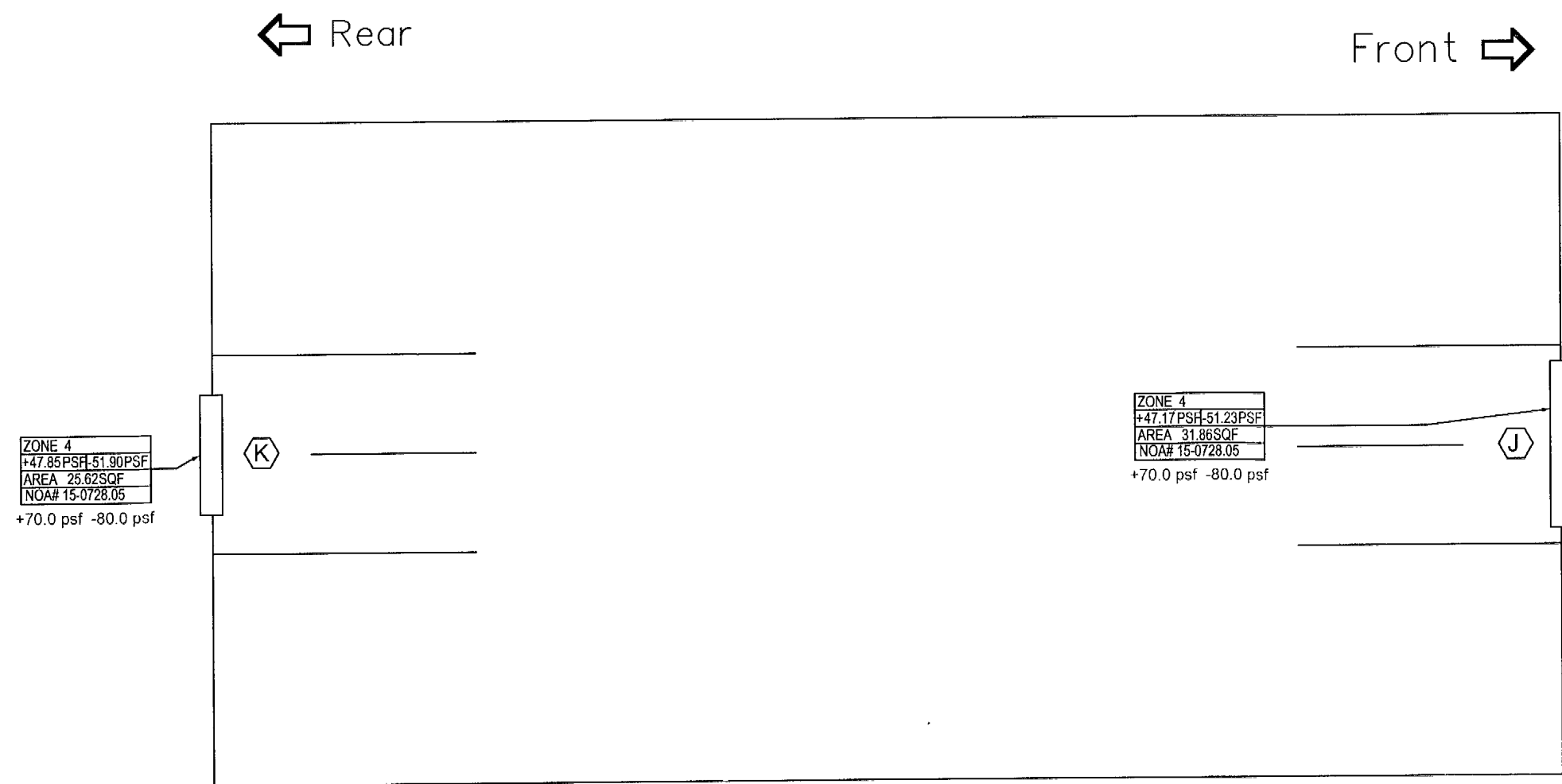
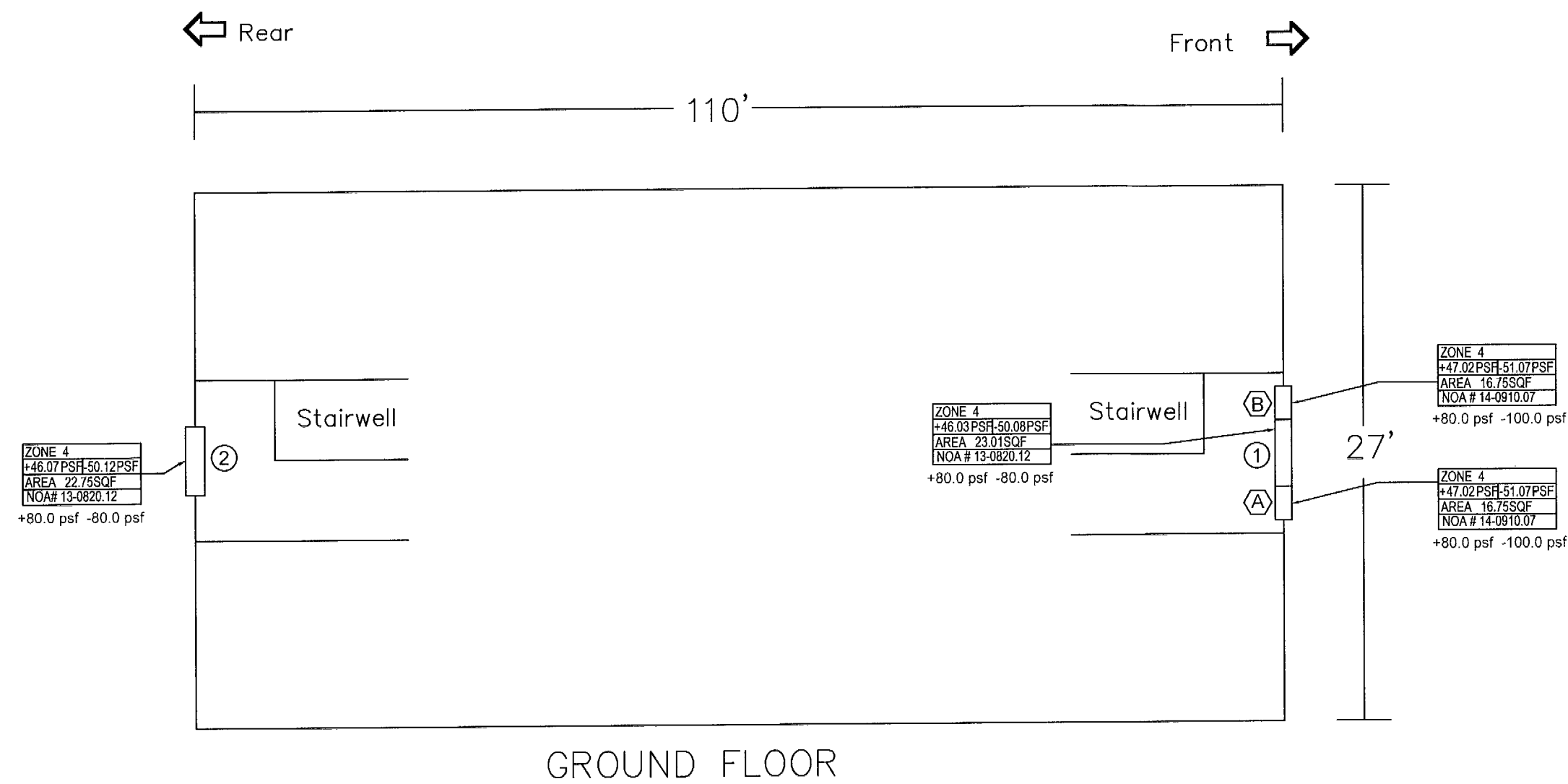
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6971 Carlyle Av

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APR 30 1984





* 2x4 Standard Mullion 50" Long
NOA 14-0529.16

** ~~2x4~~ Corner Mullion 50" Long with clips by Curv-A-Tech Corp.
NOA 15-0603.18

NOA 15-0622.13

WINDOW SCHEDULE INTO SCOPE AND AREA OF WORK										
MARK	DESCRIPTION	SIZE W H	MATERIAL	AREA	REMARKS	QTY.	NOA	MAX. PRES. (PSF)	MIN. PRES. (PSF)	
①	FIXED WINDOW	29' 83"	ALUMINUM/GLASS	16.75 SQ. FT.	N-1	1	NOA# 14-0910.07	47.02	-51.07	
②	FIXED WINDOW	29' 83"	ALUMINUM/GLASS	16.75 SQ. FT.	N-1	1	NOA# 14-0910.07	47.02	-51.07	
③	FIXED WINDOW	66' 50"	ALUMINUM/GLASS	22.85 SQ. FT.	N-1	4	NOA# 15-0728.05	46.05	-50.68	
④	HR. WINDOW	10'11" 50"	ALUMINUM/GLASS	35.93 SQ. FT.	N-1	4	NOA# 15-0728.05	46.99	-51.36	
⑤	FIXED WINDOW	64' 50"	ALUMINUM/GLASS	22.17 SQ. FT.	N-1	4	NOA# 15-0715.10	46.15	-50.88	
⑥	HR. WINDOW	65' 50"	ALUMINUM/GLASS	22.55 SQ. FT.	N-1	4	NOA# 15-0728.05	46.26	-54.11	
⑦	HR. WINDOW	37' 38"	ALUMINUM/GLASS	9.73 SQ. FT.	N-1	12	NOA# 15-0728.05	46.62	-52.67	
⑧	HR. WINDOW	74' 50"	ALUMINUM/GLASS	25.62 SQ. FT.	N-1.3	9	NOA# 15-0728.05	47.85	-51.80	
⑨	HR. WINDOW	11'11" 50"	ALUMINUM/GLASS	38.48 SQ. FT.	N-1	4	NOA# 15-0728.05	46.59	-50.64	
⑩	HR. WINDOW	92' 50"	ALUMINUM/GLASS	31.88 SQ. FT.	N-1	1	NOA# 15-0728.05	47.17	-51.23	
⑪	HR. WINDOW	74' 50"	ALUMINUM/GLASS	25.62 SQ. FT.	N-1	8	NOA# 15-0728.05	47.85	-53.25	
⑫	HR. WINDOW	37' 38"	ALUMINUM/GLASS	9.73 SQ. FT.	N-1.2	12	NOA# 15-0728.05	46.62	-52.67	

NOTES: 1- ALL WINDOWS SHALL BE OPERABLE FROM THE INTERIOR WITHOUT USE OF ANY SPECIAL TOOLS.
2- SAFETY GLASS, CATEGORY CLASS II.
3- EGRESS TYPE.

U-FACTOR=1.08
SHGC=0.48

* 2 x 4 Standard Mullion 50" Long (NOA 14-0529.16)

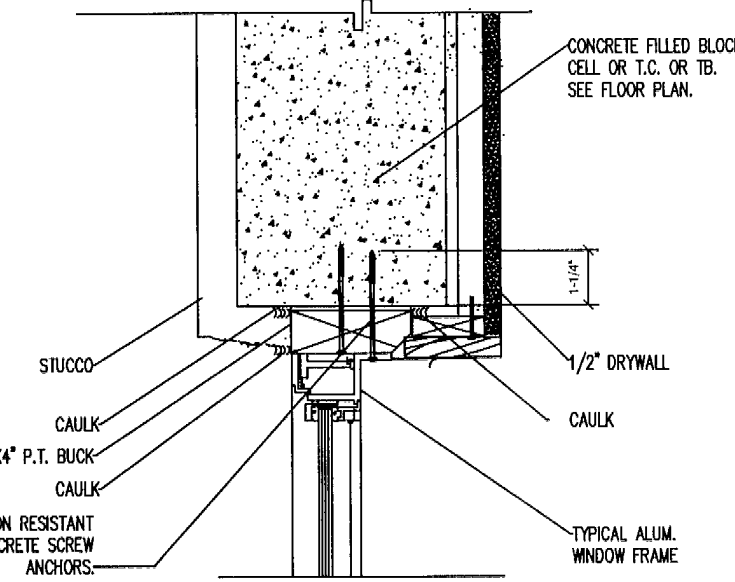
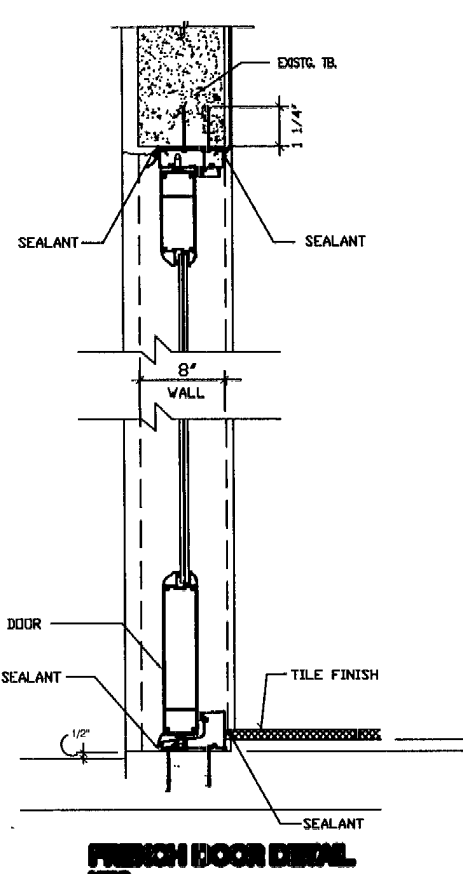
DOORS TO BE REPLACED-DOOR SCHEDULE INTO SCOPE AND AREA OF WORK										
MARK	DESCRIPTION	SIZE W H	DOOR	FRAME	REMARKS	QTY.	NOA	MAX. PRES. (PSF)	MIN. PRES. (PSF)	
①	FRENCH DOOR	40' 83" 1 3/8"	GLASS/MTL	MTL	EXT. DOOR	1	NOA# 13-0820.12	46.03	-50.08	
②	FRENCH DOOR	40' 83" 1 3/8"	GLASS/MTL	MTL	EXT. DOOR	1	NOA# 13-0820.12	46.07	-50.12	

SAFETY NOTES FOR DOORS:
1- ALL DOORS SHALL BE OPERABLE FROM THE INTERIOR WITHOUT USE OF ANY SPECIAL TOOLS.
2- SAFETY GLASS, CATEGORY CLASS II.
3- EGRESS TYPE.

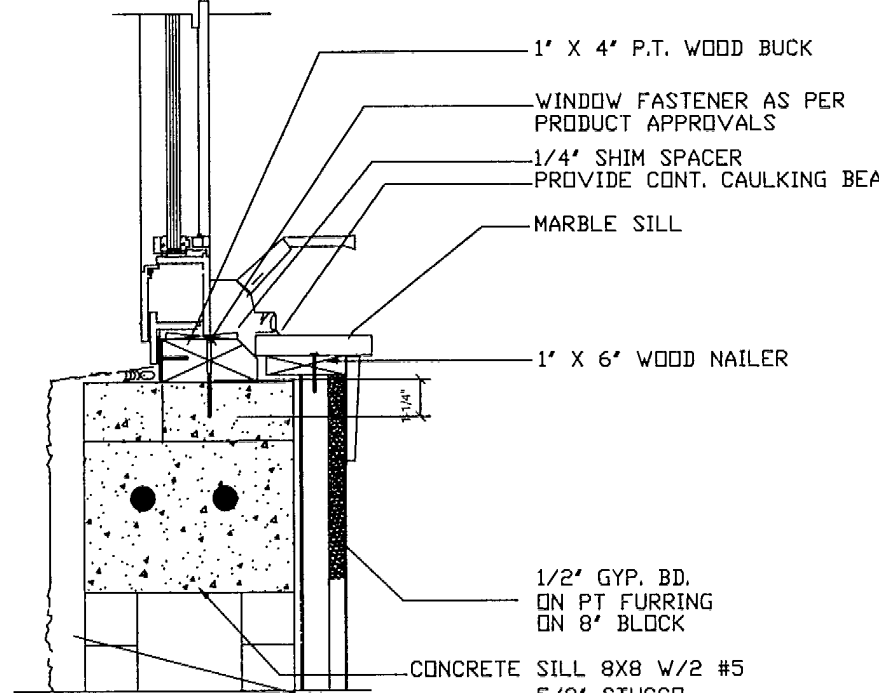
* SAFETY GLASS, CATEGORY CLASS II
** EGRESS DOOR

SCOPE OF WORK

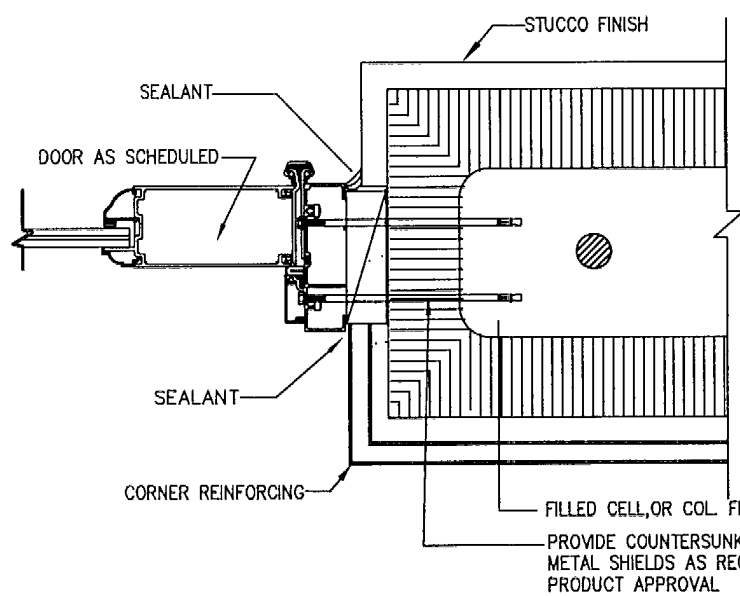
WINDOWS & DOORS REPLACEMENT; INSTALLATION OF NEW IMPACT WINDOWS AND DOOR



TYPICAL WINDOW DETAIL



WINDOW AND DOOR BUCK DETAIL



DOOR JAMB DETAIL

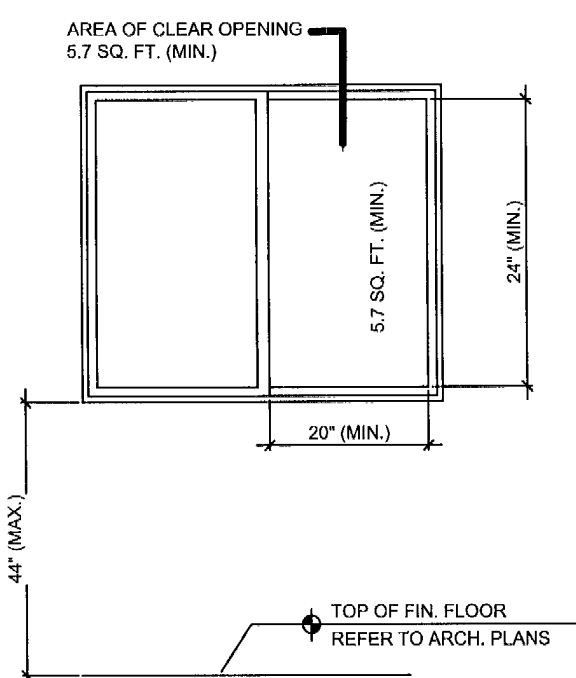
SAFETY / EGRESS DOOR NOTES

NO DOOR IN THE PATH OF TRAVEL OF MEANS OF ESCAPE SHALL BE LESS THAN 32" WIDE, EXCEPT THAT BATHROOM DOORS MAY BE 24" WIDE, UNLESS A LARGER DOOR OPENING IS REQUIRED TO SATISFY THE REQUIREMENTS OF SECTION 915 OF THE F.S.C. 2004. EVERY CLOSET DOOR LATCH SHALL BE SUCH THAT CHILDREN CAN OPEN THE DOOR FROM INSIDE THE CLOSET.
EVERY BATHROOM DOOR LOCK SHALL BE DESIGNED TO PERMIT THE OPENING OF THE LOCKED DOOR FROM THE OUTSIDE IN AN EMERGENCY.
DOORS MAY BE SWINGING OR SLIDING, AND ARE EXEMPT FROM THE REQUIREMENTS OF SECTION 212.4.3 AND 212.4.4.4 OF THE 1994 ED. OF NFPA 101. NO DOOR IN ANY MEANS OF ESCAPE SHALL BE LOCKED AGAINST EGRESS WHEN THE BUILDING IS OCCUPIED. ALL LOCKING DEVICES WHICH IMPED OR PROHIBIT EGRESS OR WHICH CAN NOT BE EASILY ENGAGED SHALL BE PROHIBITED.

EGRESS WINDOW NOTES:

AN OUTSIDE WINDOW OR DOOR OPERABLE FROM THE INSIDE WITHOUT THE USE OF TOOLS AND PROVIDING A CLEAR OPENING OF NOT LESS THAN 20 IN. (50.8 CM) IN WIDTH, 24 IN. (61 CM) IN HEIGHT, AND 5.7 SQ. FT. (0.53) IN AREA. THE BOTTOM OF THE OPENING SHALL BE NO MORE THAN 44 IN. (112 CM) ABOVE THE FLOOR. AS PER N.F.P.A. 101 SECT. 22-2.2.3 (C)

OPERABLE WINDOWS SHALL BE PROTECTED AS FOLLOWS:
WHERE THERE IS DROP OF MORE THAN 4'-0" ON THE FAR SIDE OF SUCH WINDOWS AND THE SILL IS LESS THAN 36" ABOVE THE NEAR SIDE WALKING SURFACE, SAFEGUARDS SHALL BE PROVIDED TO PREVENT THE FALL OF PERSONS WHEN SUCH WINDOWS ARE OPEN AS PER SECT. 3508.3 (E) (1) (APPLICABLE IN 2nd FLOOR WINDOWS ONLY)



EGRESS WINDOW DETAIL

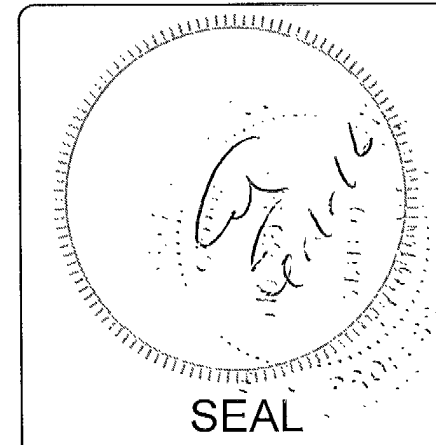
SCALE : N.T.S.

REVISIONS	
NO.	DATE

EMILIANO OROZCO P.E.
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MIAMI, FLORIDA 33184
PHONE: (786) 715-7125
emilianocentury2@gmail.com

WINDOWS AND DOOR SCHEDULE,
FLOOR PLANS AND DETAILS

VEN CARLYLE LLC.
6971 CARLYLE AVE.
MIAMI BEACH, FL., 33141



DATE 02/29/16	CHECKED
SCALE 1/4"=1'-0"	
DESIGNED EO	
DRAWN	
DRAWING NO. A1	
SHEET 1 OF 1	