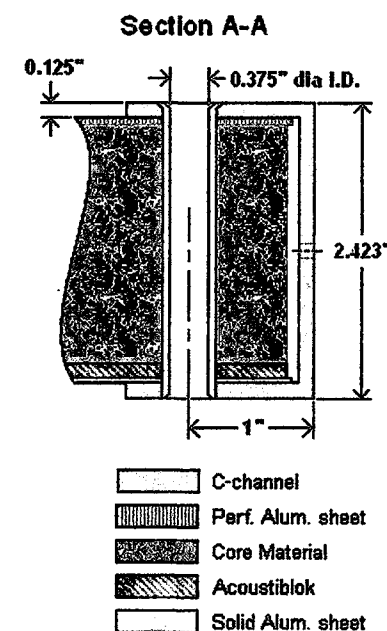
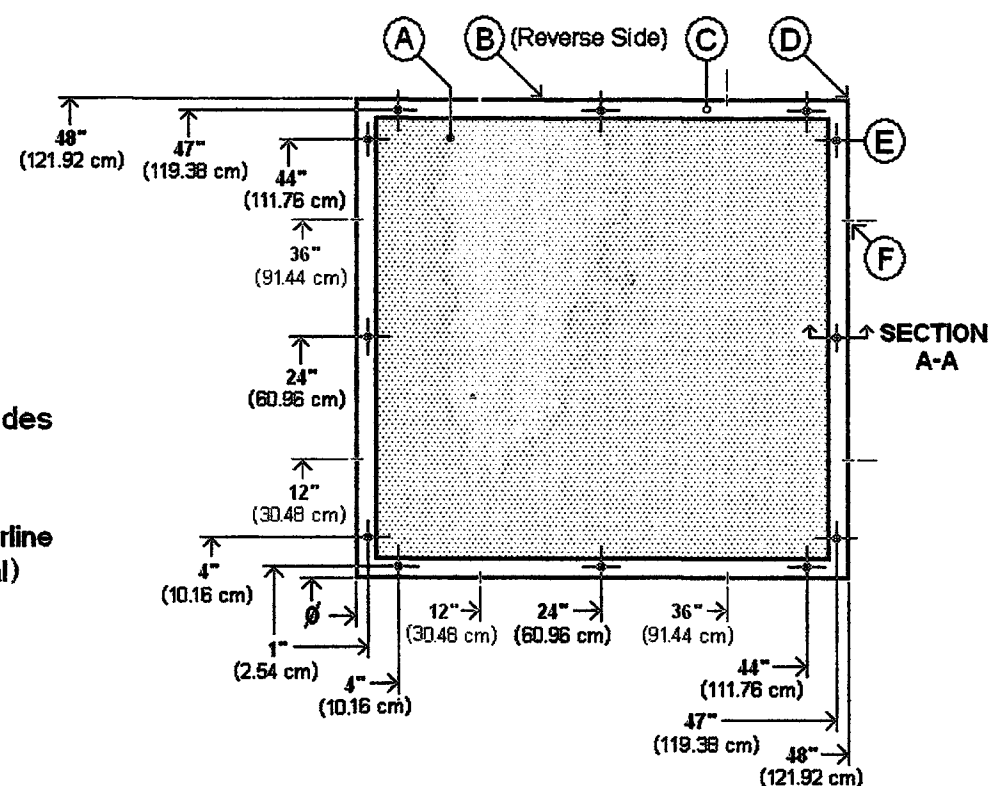




## All Weather Sound Panel 4' x 4'

- (A) Front Face: Perforated  
.040" 5052-H32 aluminum alloy  
3/32" holes staggered 5/32" OC
  - (B) Back Face: Solid  
.032" 5052-H32 aluminum alloy
  - (C) Frame:  
.125" 6063-T5 aluminum alloy  
Custom C-channel extrusion  
Rotary sanded machine finish
  - (D) Welded at all corners; front, back & sides
  - (E) (12) 3/8" dia. reinforced mounting points
  - (F) 3/16" Drain holes are located along centerline  
of all 4 sides Marked In Red —† (8 total)
- Gross Weight: aprox. 45 lbs.

This drawing contains information proprietary to Acoustiblok. Do not copy in whole or in part without first obtaining the express written permission from Acoustiblok, Inc.



ACOUSTIBLOK Inc.		REV. B
6900 Interbay Blvd.		
Tampa, FL 33616		© LJ Avalon LLC 2009
Part name: 4' x 4' Industrial Panel		
Part Number: AWSPIND 44		(C)
For: Specifications for customer's review		
Drn by: V. Miko	Date: 12.17.2009	
Chk by:	Date:	
Appr. by:	Date:	
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE		

B1303994  
40 Island Ave

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

BUILDING:	<u>M. SCHAD 5.8.13</u>
ZONING:	<u>5/8/13</u>
DRB/HPB:	
CONCURRENCY:	
PLUMBING:	
ELECTRICAL:	<u>05/08/13</u>
MECHANICAL:	<u>5/28/13</u>
FIRE PREVENTION:	<u>06/06/13</u>
ENGINEERING:	<u>6/14/13</u>
PUBLIC WORKS:	
STRUCTURAL:	<u>6/4/13</u>
ELEVATOR:	

City of Miami Beach  
Fire Prevention Division  
PLANS APPROVED





MIAMI BEACH

Building Department  
1700 Convention Center Drive, 2nd Floor  
Miami Beach, FL 33139

# B1306508

## NOTICE TO THE CITY OF MIAMI BEACH BUILDING DEPARTMENT OF EMPLOYMENT AS SPECIAL INSPECTOR UNDER THE FLORIDA BUILDING CODE

I have been retained by: Standard Hotel to perform special inspector services under the Florida Building Code at the 40 Island Avenue project on the below listed structures as of 10/25/2013 (date). I am a professional engineer licensed in the State of Florida.

Process Number:

B1306508

Master Permit (IF APPLICABLE):

- ☐ Special Inspector for Pilings, FBC 1822.4.2 (By P.E. or R.A.)
- ☐ Special Inspector for Lightweight Insulating Concrete, FBC 1917.2
- ☐ Special Inspector for Soil Compaction, FBC 2020.3.1
- ☐ Special Inspector for Precast Units and Attachments, FBC 1927.12.2 (By P.E. or R.A.)
- ☒ Special Inspector for Reinforced Masonry, FBC 2022.4 (By P.E. or R.A.)
- ☒ Special Inspection for Steel Bolted & Welded Connections, FBC 2218.2 (By P.E. or R.A.)
- ☐ Special Inspector for Trusses over 35 feet long or 6 feet high, FBC 2319.17.2.4.2 (By P.E. or R.A.)
- ☒ Special Inspector for CONCRETE REPAIRS

NOTE: Only the marked boxes apply.

The following individual's employed by this firm or me are authorized representatives to perform inspections

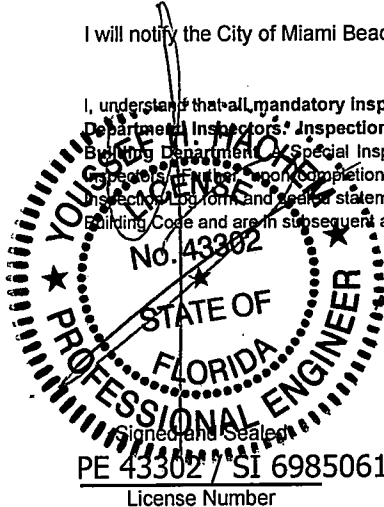
1. Youssef Hachem, Ph.D., P.E., S.I.
3. \_\_\_\_\_

2. \_\_\_\_\_
4. \_\_\_\_\_

\* Special inspectors utilizing authorized representatives shall insure the authorized representative is qualified by education or licensure to perform the duties assigned by the Special Inspector. The qualifications shall include: licensure as a professional engineer or architect; graduation from an engineering education program in civil or structural engineering; graduation from an architectural education program; successful completion of the NCEES Fundamentals Examination; or registration as a building inspector or general contractor.

I will notify the City of Miami Beach Building Department of any changes regarding authorized personnel performing inspection services.

I, understand that all mandatory inspections, as required by the Florida Building Code, shall be requested by the permit holder and approved by the Building Department Inspectors. Inspections performed by the Special Inspector hired by the Owner are in addition to the mandatory inspections performed by the Building Department. A Special Inspection Log for each building must be displayed in a convenient location on the site for inspection by the Building Department Inspectors. Upon completion of the work under each building permit, I will submit to the Building Department at the time of final inspection the completed inspection log form and a written statement that, to the best of my knowledge, belief and professional judgment those portions outlined above meet the intent of the Florida Building Code and are in subsequent accordance with the approved plans.



PE 43302 / SI 6985061  
License Number

Architect/Engineer Signature: \_\_\_\_\_  
Architect/Engineer Name Printed: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone Number: \_\_\_\_\_

Owner/Agent Signature: \_\_\_\_\_  
Owner/Agent Name Printed: \_\_\_\_\_  
Building Department Accepted By: \_\_\_\_\_

Youssef Hachem, Ph.D., P.E., S.I.  
12151 SW 128 Court, Suite 104, Miami, FL. 33186  
(305) 969-9423 / (786) 287-9120  
Ceeta Poliah  
Ceeta Poliah  
AV 2/12/14

Date: 10/25/2013



# MIAMI BEACH

## BUILDING DEPARTMENT

1700 Convention Center Drive, 2<sup>nd</sup> Floor

Miami Beach, Fl, 33139

Phone: (305) 673-7610 Fax: (305) 673-7857

### Owner/ Qualifier / Contractor Estimate Construction Cost Affidavit (To be submitted for the main/master permits or the stand alone permits)

Permit Number: B1306508

Date: 10/08/2013

Job Address: 40 ISLAND AVENUE

Folio No.: 02-3233-004-0090

The construction cost should include the work under the main Permit and all associated permits.

#### Part I: FEMA 50% Related Construction Cost

Items to be excluded from Estimate Construction Cost for Part I (FEMA 50% Related Construction Cost):

*Plan and Specification, Survey Cost, Permit Fees, Swimming Pools, detached structures (garages, storages, cabanas), Landscaping, Fences, Yard light, Not Built-ins Appliances and Furniture.*

Estimated Construction Cost	General Contractor Cost	Owner Cost
Demolition & Removal	2,000	
Building & Structural Elements	20,000	
Roofing		
Doors & Windows	2,500	
Railing		
Interior Finish, Floor Covering, Painting	3,000	
Cabinets and Furniture-Built-Ins		
Appliances-Built-Ins		
Other Building related Items	2,000	
Electrical including Fixtures	4,000	
Elevator		
Mechanical-HVAC-equipments	5,500	
Plumbing including Fixtures	12,000	
Overhead and Profit	10,000	
Sub Total Construction Cost	\$ 61,000	\$
Sub Total Construction Cost Estimate for FEMA 50% Rule Purposes	\$	61,000 <sup>2</sup>





# MIAMI BEACH

## BUILDING DEPARTMENT

1700 Convention Center Drive, 2<sup>nd</sup> Floor

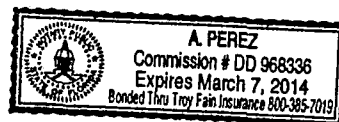
Miami Beach, FL 33139

Phone: (305) 673-7610 Fax: (305) 673-7857

Part II: Non Related FEMA 50% Construction Cost		
Estimated Construction Cost	General Contractor Cost	Owner Cost
Swimming Pools		
Fences, Pavers, Sidewalks, Site Improvements		
Yard Light		
Other and detached: garages, storage and cabanas		
Sub Total Cost	\$	\$
Sub Total Construction Cost Estimate for non FEMA 50% Rule Purposes	\$	

Part III: Total Construction Cost (Note: The construction cost will be validated by Plan Examiners)	
Estimated Construction Cost	
Sub Total Construction Cost Estimate for FEMA 50% Rule Purposes-Part I	\$ 61,000.2
Sub Total Construction Cost Estimate for Non FEMA 50% Rule Purposes- Part II	\$
Total Construction Cost Estimate. (Add Part I and Part II of Construction Cost)	\$ 61,000 =

Part IV: Signature Required
<p>If the improvements cost will increase at any point during the proposed construction, it is Owner and the Contractor of Record responsibility to submit the revised improvements cost to the Building Department for review and approval.</p> <p>Signature of Owner _____</p> <p>STATE OF FLORIDA COUNTY OF <u>Dade</u></p> <p>Sworn to and Subscribed before me this <u>10</u> day of <u>February</u> 20<u>14</u>, by: <u>Jose Pepe' tena</u></p> <p><input checked="" type="checkbox"/> Personally known <input type="checkbox"/> Produced Identification - Type of Identification _____</p> <p>Signature of Notary Public _____</p>





# MIAMI BEACH

## BUILDING DEPARTMENT

1700 Convention Center Drive, 2<sup>nd</sup> Floor

Miami Beach, FL 33139

Phone: (305) 673-7610 Fax: (305) 673-7857

Signature of Qualifier / Contractor

STATE OF FLORIDA

COUNTY OF Miami - Dade

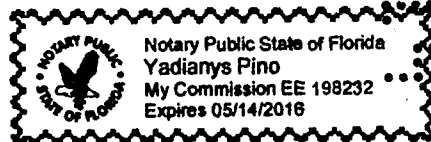
Sworn to and Subscribed before me this 5<sup>th</sup> day of February 2014, by:

Jan Hays

☒ Personally known ☐ Produced Identification - Type of

Identification UP

Signature of Notary Public



### Part V: Building Department Use Only

6		
A	Sub Total Construction Cost Estimate for FEMA 50% Rule Purposes.	\$ 61,000 =
B	Over Five Year Improvements	\$ 2,703,222 =
C	Total Improvements	\$ 2,764,222 =
D	Building Tax Assessed Value	\$ 7,612,500 =
E	Building Appraised Market Value	\$
F	Improvements Cost Ratio (C/E or C/D)	% 36.30%

If improvements cost exceed 40% of the Building Tax Value, a building appraised market Value is required for evaluation of Improvement Cost Ratio.

Check one box:

☐ New Construction and Substantial Improvement

☒ Existing Building and Non Substantial Improvement

Hermia Rey

Flood Plain Compliance Reviewer

02/17/14

Flood Plain Compl Reviewer signature and date

Note: Over \$1,000,000.00 Improvements Cost requires Chief Flood Plan Compliance Division Approval, over \$50,000,000.00 Improvements Cost requires Building Director Approval.

Name

Signature and Date

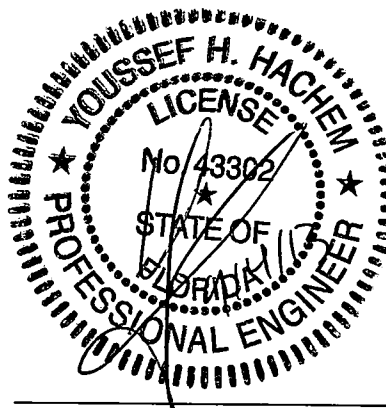
# THE STANDARD HOTEL

40 ISLAND AVENUE  
MIAMI BEACH, FL 33139

## STRUCTURAL CALCULATIONS

### NEW DOOR REINFORCEMENT DESIGN

Job. No. E130160  
September 3, 2013



Youssef H. Hachem, Ph.D., P.E.  
P.E. License No. 43302  
12151 SW 128 Ct., Suite 104  
Miami, Florida 33186  
(305) 969-YHCE  
[yh@yhengineering.com](mailto:yh@yhengineering.com)

**YHCE**  
[www.yhengineering.com](http://www.yhengineering.com)



**YHCE, Inc.**  
Youssef Hachem Consulting Engineering  
12151 SW 128th Court, Suite 104  
Miami, FL 33186  
(305) 969-YHCE / www.yhengineering.com

JOB E130160

SHEET NO. \_\_\_\_\_ OF \_\_\_\_\_

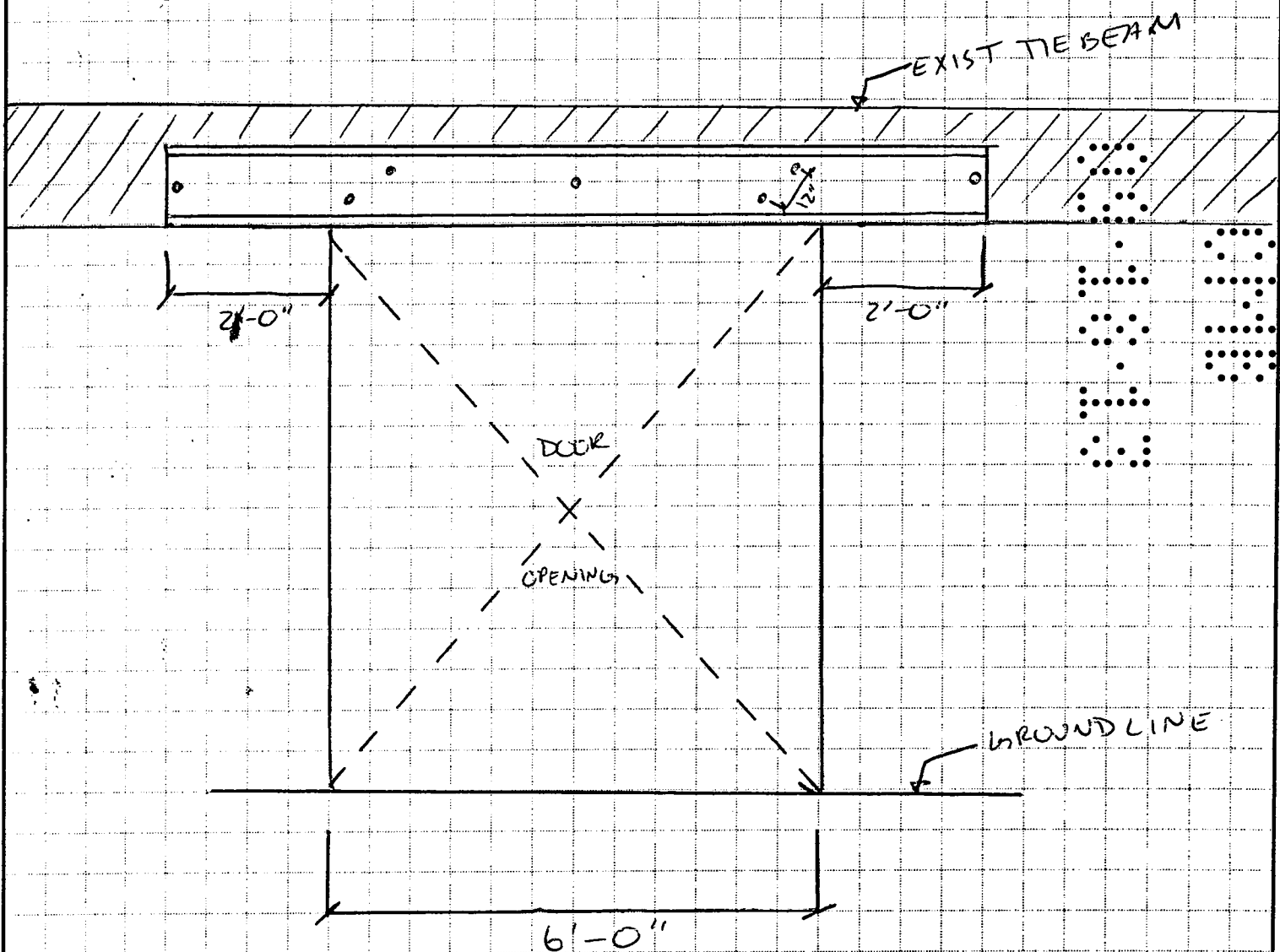
CALCULATED BY HH DATE \_\_\_\_\_

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_

SCALE \_\_\_\_\_

## EXIST T.B REINFORCEMENT DESIGN

- ATTACH C12X30 CHANNEL TO EXIST T.B.
  - ↳ ASTM A992 GRADE 50
  - ↳ PINNED @ BOTH ENDS W/ CONNECTIONS EVERY 2.5'
  - ↳ RESULT = OKAY!
  - ↳ CHECK VISUAL ANALYSIS CALCS.



USE

TITEN HD ANCHORS: ALLOWABLE

3/4"  $\phi$  w/ 5 1/2"

EMBEDMENT (2)

STAGGERED @ 25'8"

7.5' w/ 12" SPACING

- 3000 lbs x 2 = 6000

- 3000 lbs

DESIGN

2942.9 lbs

1012; 2391 lbs

OKAY

Roof	4.80	0	.00	.00	.00	.0	.0	.0
Roof	4.80	0	.00	.00	.00	.0	.0	.0
Roof	4.80	0	.00	.00	.00	.0	.0	.0
Total	.00	24630	236.45	.00	.00	.0	-7093.4	.0

#### Notes - Along Ridge

- Note (1) Ref Fig 27.4-1, Parallel to Ridge (All),  $h/l = 0.27$   
Note (2) X = Along Building ridge, Y = Normal to Building Ridge, Z = Vertical  
Note (3) MIN = Minimum pressures on Walls = 9.6 psf and Roof = 4.8 psf  
Note (4) Area\* = Area of the surface projected onto a vertical plane normal to wind.

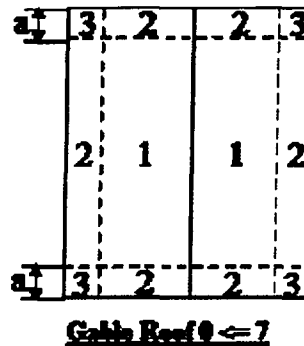
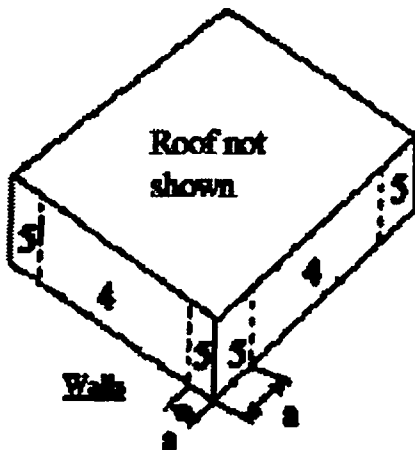
#### Total Base Reaction Summary

Description	Fx Kip	Fy Kip	Fz Kip	Mx K-ft	My K-ft	Mz K-ft
Normal to Ridge Walls+Roof +GCpi	.0	733.1	3033.6	112980.9	.0	.0
Normal to Ridge Walls Only +GCpi	.0	733.1	.0	22722.8	.0	.0
Normal to Ridge Walls+Roof -GCpi	.0	733.1	982.9	112980.9	.0	.0
Normal to Ridge Walls Only -GCpi	.0	733.1	.0	22722.8	.0	.0
Normal to Ridge Walls+Roof MIN	.0	129.6	.0	3888.0	.0	.0
Along Ridge Walls+Roof +GCpi	1549.3	.0	3498.0	.0	-117172.5	.0
Along Ridge Walls Only +GCpi	1549.3	.0	.0	.0	-47810.4	.0
Along Ridge Walls+Roof -GCpi	1549.3	.0	1447.3	.0	-117172.5	.0
Along Ridge Walls Only -GCpi	1549.3	.0	.0	.0	-47810.4	.0
Along Ridge Walls+Roof MIN	236.4	.0	.0	.0	-7093.4	.0

#### Notes Applying to MWFRS Reactions:

- Note (1) Per Fig 27.4-1, Note 9, Use greater of Shear calculated with or without roof.  
Note (2) X = Along Building ridge, Y = Normal to Building Ridge, Z = Vertical  
Note (3) MIN = Minimum pressures on Walls = 9.6 psf and Roof = 4.8 psf  
Note (4) MIN area is the area of the surface onto a vertical plane normal to wind.  
Note (5) Total Roof Area (incl OH Top) = .00 sq. ft

#### 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" = 22.50 ft

Description	Width ft	Span ft	Area Zone ft <sup>2</sup>	Max GCp	Min GCp	Max P psf	Min P psf
Zone 1	1.00	1.00	1.0	0.30	-1.00	29.60	-72.78
Zone 2	1.00	1.00	1.0	0.30	-1.80	29.60	-122.12
Zone 3	1.00	1.00	1.0	0.30	-2.80	29.60	-183.79
Zone 4	1.00	1.00	1.0	0.90	-0.99	66.61	-72.16
Zone 5	1.00	1.00	1.0	0.90	-1.26	66.61	-88.81

# MecaWind Pro v2.2.1.3 per ASCE 7-10

Developed by MECA Enterprises, Inc. Copyright 2013 [www.mecaenterprises.com](http://www.mecaenterprises.com)

Date : 8/7/2013 Project No. : H130940  
Company Name : Youssef Hachem Consulting Engi Designed By : HH  
Address : 12151 SW 128 Ct, Suite: 104 Description : The Standard  
City : Miami Customer Name :  
State : FL Proj Location : Miami Beach, FL  
File Location: Z:\2013\Beilinson and Gomez\E130160 (The Standard Hotel)\DESIGN PHASE\Calculations\WIND  
CALC'S\New Spa Door Wind Calcs..wnd

## Input Parameters: Directional Procedure All Heights Building (Ch 27 Part 1)

Basic Wind Speed(V)	=	175.00 mph	Exposure Category	=	D
Structural Category	=	II	Flexible Structure	=	No
Natural Frequency	=	N/A	Kd Directional Factor	=	1.00
Importance Factor	=	1.00	Zg	=	700.00 ft
Alpha	=	11.50	Bt	=	1.07
At	=	0.09	Bm	=	0.80
Am	=	0.11	l	=	650.00 ft
Cc	=	0.15	Zmin	=	7.00 ft
Epsilon	=	0.13	Slope of Roof(Theta)	=	.00 Deg
Slope of Roof	=	0 : 12	Type of Roof	=	FLAT
Ht: Mean Roof Ht	=	60.00 ft	Eht: Eave Height	=	60.00 ft
RHt: Ridge Ht	=	60.00 ft	Overhead Type	=	No Overhang
OH: Roof Overhang at Eave	=	.00 ft	Bldg Length Along Ridge	=	225.00 ft
Bldg Length Along Ridge	=	225.00 ft	Bldg Width Across Ridge	=	410.50 ft

## Gust Factor Calculations

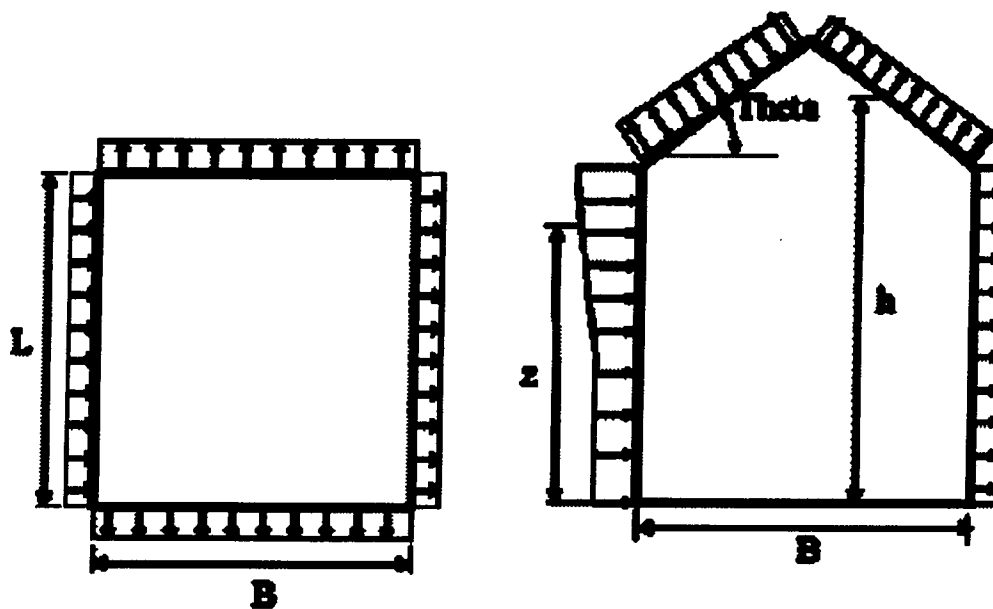
Gust Factor Category I Rigid Structures - Simplified Method  
Gust1: For Rigid Structures (Nat. Freq.>1 Hz) use 0.85 = 0.85

Gust Factor Category II Rigid Structures - Complete Analysis  
Zm:  $0.6 \cdot H_t$  = 36.00 ft  
lzm:  $C_c \cdot (33/Z_m)^{0.167}$  = 0.15  
Lzm:  $1 \cdot (Z_m/33)^{\text{Epsilon}}$  = 657.11 ft  
Q:  $(1/(1+0.63 \cdot ((B+H_t)/L_zm)^{0.63}))^{0.5}$  = 0.81  
Gust2:  $0.925 \cdot ((1+1.7 \cdot lzm \cdot 3.4 \cdot Q)/(1+1.7 \cdot 3.4 \cdot lzm))$  = 0.85

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

Wind Pressurs Main Wind Force Resisting System (MWFRS) - Ref Figure 27.4-1



$K_h: 2.01 \cdot (H_t/Z_g)^{2/\alpha}$  = 1.31  
 $K_{ht}$ : Topographic Factor (Figure 6-4) = 1.00  
 $Q_h: .00256 \cdot (V)^2 \cdot I \cdot K_h \cdot K_{ht} \cdot K_d$  = 61.67 psf  
 $C_{pww}$ : Windward Wall  $C_p$  (Ref Fig 6-6) = 0.80  
 Roof Area = .00 ft<sup>2</sup>  
 Reduction Factor based on Roof Area = 1.00

MWFRS-Wall Pressures for Wind Normal to 225 ft Wall (Normal to Ridge)  
 All pressures shown are based upon ASD Design, with a Load Factor of .6

Wall	$C_p$	Pressure	
		+GCpi (psf)	-GCpi (psf)
Leeward Wall	-0.34	-28.58	-6.37
Side Walls	-0.70	-47.61	-25.40

Wall	Elev ft	$K_z$	$K_{zt}$	$C_p$	$q_z$ psf	Press +GCpi	Press -GCpi	Total +/-GCpi
Windward	60.00	1.31	1.00	0.80	61.67	30.62	52.82	59.20
Windward	59.00	1.31	1.00	0.80	61.49	30.50	52.70	59.08
Windward	58.00	1.30	1.00	0.80	61.31	30.37	52.58	58.95
Windward	57.00	1.30	1.00	0.80	61.13	30.25	52.45	58.83
Windward	56.00	1.30	1.00	0.80	60.94	30.12	52.32	58.70
Windward	55.00	1.29	1.00	0.80	60.75	29.99	52.20	58.57
Windward	54.00	1.29	1.00	0.80	60.55	29.86	52.06	58.44
Windward	53.00	1.28	1.00	0.80	60.36	29.73	51.93	58.31
Windward	52.00	1.28	1.00	0.80	60.16	29.59	51.80	58.17
Windward	51.00	1.27	1.00	0.80	59.96	29.46	51.66	58.03
Windward	50.00	1.27	1.00	0.80	59.75	29.32	51.52	57.90
Windward	49.00	1.27	1.00	0.80	59.54	29.18	51.38	57.75
Windward	48.00	1.26	1.00	0.80	59.33	29.03	51.23	57.61
Windward	47.00	1.26	1.00	0.80	59.11	28.88	51.09	57.46
Windward	46.00	1.25	1.00	0.80	58.89	28.74	50.94	57.31
Windward	45.00	1.25	1.00	0.80	58.66	28.58	50.79	57.16
Windward	44.00	1.24	1.00	0.80	58.44	28.43	50.63	57.01
Windward	43.00	1.24	1.00	0.80	58.20	28.27	50.47	56.85
Windward	42.00	1.23	1.00	0.80	57.97	28.11	50.31	56.69
Windward	41.00	1.23	1.00	0.80	57.72	27.95	50.15	56.52
Windward	40.00	1.22	1.00	0.80	57.48	27.78	49.98	56.36
Windward	39.00	1.22	1.00	0.80	57.22	27.61	49.81	56.19
Windward	38.00	1.21	1.00	0.80	56.97	27.43	49.64	56.01
Windward	37.00	1.21	1.00	0.80	56.70	27.26	49.46	55.83
Windward	36.00	1.20	1.00	0.80	56.43	27.07	49.28	55.65
Windward	35.00	1.19	1.00	0.80	56.16	26.89	49.09	55.46
Windward	34.00	1.19	1.00	0.80	55.87	26.70	48.90	55.27
Windward	33.00	1.18	1.00	0.80	55.58	26.50	48.70	55.08

Windward	32.00	1.18	1.00	0.80	55.29	26.30	48.50	54.88
Windward	31.00	1.17	1.00	0.80	54.98	26.09	48.30	54.67
Windward	30.00	1.16	1.00	0.80	54.67	25.88	48.08	54.46
Windward	29.00	1.16	1.00	0.80	54.35	25.66	47.87	54.24
Windward	28.00	1.15	1.00	0.80	54.02	25.44	47.64	54.02
Windward	27.00	1.14	1.00	0.80	53.68	25.21	47.41	53.79
Windward	26.00	1.13	1.00	0.80	53.33	24.97	47.18	53.55
Windward	25.00	1.13	1.00	0.80	52.96	24.73	46.93	53.31
Windward	24.00	1.12	1.00	0.80	52.59	24.47	46.68	53.05
Windward	23.00	1.11	1.00	0.80	52.20	24.21	46.41	52.79
Windward	22.00	1.10	1.00	0.80	51.80	23.94	46.14	52.52
Windward	21.00	1.09	1.00	0.80	51.38	23.66	45.86	52.24
Windward	20.00	1.08	1.00	0.80	50.95	23.36	45.57	51.94
Windward	19.00	1.07	1.00	0.80	50.50	23.06	45.26	51.64
Windward	18.00	1.06	1.00	0.80	50.02	22.74	44.94	51.32
Windward	17.00	1.05	1.00	0.80	49.53	22.40	44.61	50.98
Windward	16.00	1.04	1.00	0.80	49.01	22.05	44.25	50.63
Windward	15.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	14.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	13.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	12.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	11.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	10.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	9.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	8.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	7.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	6.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	5.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	4.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	3.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	2.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26
Windward	1.00	1.03	1.00	0.80	48.46	21.68	43.88	50.26

Roof - Dist from Windward Edge	Cp	Pressure +GCpi (psf)	Pressure -GCpi (psf)
Roof: 0.0 ft to 30.0 ft	-0.90	-58.04	-35.83
Roof: 30.0 ft to 60.0 ft	-0.90	-58.04	-35.83
Roof: 60.0 ft to 120.0 ft	-0.50	-37.18	-14.97
Roof: 120.0 ft to 410.5ft	-0.30	-26.75	-4.54

Normal to Ridge - Base Reactions - Walls+Roof +GCpi

Description	Press psf	Area ft^2	Fx Kip	Fy Kip	Fz Kip	Mx K-ft	My K-ft	Mz K-ft
Leeward Wall	-28.58	13500	.00	385.80	.00	11574.1	.0	.0
Side Wall	-47.61	24630	1172.57	.00	.00	.0	35177.0	.0
Side Wall	-47.61	24630	1172.57	.00	.00	.0	35177.0	.0
Windward Wall	30.62	225	.00	6.89	.00	409.9	.0	.0
Windward Wall	30.50	225	.00	6.86	.00	401.4	.0	.0
Windward Wall	30.37	225	.00	6.83	.00	393.0	.0	.0
Windward Wall	30.25	225	.00	6.81	.00	384.5	.0	.0
Windward Wall	30.12	225	.00	6.78	.00	376.1	.0	.0
Windward Wall	29.99	225	.00	6.75	.00	367.8	.0	.0
Windward Wall	29.86	225	.00	6.72	.00	359.5	.0	.0
Windward Wall	29.73	225	.00	6.69	.00	351.2	.0	.0
Windward Wall	29.59	225	.00	6.66	.00	342.9	.0	.0
Windward Wall	29.46	225	.00	6.63	.00	334.7	.0	.0
Windward Wall	29.32	225	.00	6.60	.00	326.5	.0	.0
Windward Wall	29.18	225	.00	6.56	.00	318.4	.0	.0
Windward Wall	29.03	225	.00	6.53	.00	310.3	.0	.0
Windward Wall	28.88	225	.00	6.50	.00	302.2	.0	.0
Windward Wall	28.74	225	.00	6.47	.00	294.2	.0	.0
Windward Wall	28.58	225	.00	6.43	.00	286.2	.0	.0
Windward Wall	28.43	225	.00	6.40	.00	278.2	.0	.0
Windward Wall	28.27	225	.00	6.36	.00	270.3	.0	.0
Windward Wall	28.11	225	.00	6.32	.00	262.5	.0	.0
Windward Wall	27.95	225	.00	6.29	.00	254.7	.0	.0
Windward Wall	27.78	225	.00	6.25	.00	246.9	.0	.0
Windward Wall	27.61	225	.00	6.21	.00	239.2	.0	.0
Windward Wall	27.43	225	.00	6.17	.00	231.5	.0	.0
Windward Wall	27.26	225	.00	6.13	.00	223.8	.0	.0
Windward Wall	27.07	225	.00	6.09	.00	216.2	.0	.0
Windward Wall	26.89	225	.00	6.05	.00	208.7	.0	.0
Windward Wall	26.70	225	.00	6.01	.00	201.2	.0	.0
Windward Wall	26.50	225	.00	5.96	.00	193.8	.0	.0



Windward Wall	26.30	225	.00	5.92	.00	186.4	.0	.0
Windward Wall	26.09	225	.00	5.87	.00	179.1	.0	.0
Windward Wall	25.88	225	.00	5.82	.00	171.8	.0	.0
Windward Wall	25.66	225	.00	5.77	.00	164.6	.0	.0
Windward Wall	25.44	225	.00	5.72	.00	157.4	.0	.0
Windward Wall	25.21	225	.00	5.67	.00	150.3	.0	.0
Windward Wall	24.97	225	.00	5.62	.00	143.3	.0	.0
Windward Wall	24.73	225	.00	5.56	.00	136.3	.0	.0
Windward Wall	24.47	225	.00	5.51	.00	129.4	.0	.0
Windward Wall	24.21	225	.00	5.45	.00	122.6	.0	.0
Windward Wall	23.94	225	.00	5.39	.00	115.8	.0	.0
Windward Wall	23.66	225	.00	5.32	.00	109.1	.0	.0
Windward Wall	23.36	225	.00	5.26	.00	102.5	.0	.0
Windward Wall	23.06	225	.00	5.19	.00	96.0	.0	.0
Windward Wall	22.74	225	.00	5.12	.00	89.5	.0	.0
Windward Wall	22.40	225	.00	5.04	.00	83.2	.0	.0
Windward Wall	22.05	225	.00	4.96	.00	76.9	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	70.7	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	65.9	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	61.0	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	56.1	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	51.2	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	46.3	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	41.5	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	36.6	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	31.7	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	26.8	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	22.0	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	17.1	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	12.2	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	7.3	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	2.4	.0	.0
Roof (0 to h/2)	-58.04	6750	.00	.00	391.75	74531.1	.0	.0
Roof (h/2 to h)	-58.04	6750	.00	.00	391.75	62778.5	.0	.0
Roof (h to 2h)	-37.18	13500	.00	.00	501.89	57842.9	.0	.0
Roof (>2h)	-26.75	65363	.00	.00	1748.24	-104894.3	.0	.0
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Total	.00	168623	.00	733.12	3033.64	112980.9	.0	.0

Normal to Ridge - Base Reactions - Walls Only +GCpi

Description	Press psf	Area ft^2	Fx Kip	Fy Kip	Fz Kip	Mx K-ft	My K-ft	Mz K-ft
-----								
Leeward Wall	-28.58	13500	.00	385.80	.00	11574.1	.0	.0
Side Wall	-47.61	24630	-1172.57	.00	.00	.0	35177.0	.0
Side Wall	-47.61	24630	1172.57	.00	.00	.0	-35177.0	.0
Windward Wall	30.62	225	.00	6.89	.00	409.9	.0	.0
Windward Wall	30.50	225	.00	6.86	.00	401.4	.0	.0
Windward Wall	30.37	225	.00	6.83	.00	393.0	.0	.0
Windward Wall	30.25	225	.00	6.81	.00	384.5	.0	.0
Windward Wall	30.12	225	.00	6.78	.00	376.1	.0	.0
Windward Wall	29.99	225	.00	6.75	.00	367.8	.0	.0
Windward Wall	29.86	225	.00	6.72	.00	359.5	.0	.0
Windward Wall	29.73	225	.00	6.69	.00	351.2	.0	.0
Windward Wall	29.59	225	.00	6.66	.00	342.9	.0	.0
Windward Wall	29.46	225	.00	6.63	.00	334.7	.0	.0
Windward Wall	29.32	225	.00	6.60	.00	326.5	.0	.0
Windward Wall	29.18	225	.00	6.56	.00	318.4	.0	.0
Windward Wall	29.03	225	.00	6.53	.00	310.3	.0	.0
Windward Wall	28.88	225	.00	6.50	.00	302.2	.0	.0
Windward Wall	28.74	225	.00	6.47	.00	294.2	.0	.0
Windward Wall	28.58	225	.00	6.43	.00	286.2	.0	.0
Windward Wall	28.43	225	.00	6.40	.00	278.2	.0	.0
Windward Wall	28.27	225	.00	6.36	.00	270.3	.0	.0
Windward Wall	28.11	225	.00	6.32	.00	262.5	.0	.0
Windward Wall	27.95	225	.00	6.29	.00	254.7	.0	.0
Windward Wall	27.78	225	.00	6.25	.00	246.9	.0	.0
Windward Wall	27.61	225	.00	6.21	.00	239.2	.0	.0
Windward Wall	27.43	225	.00	6.17	.00	231.5	.0	.0
Windward Wall	27.26	225	.00	6.13	.00	223.8	.0	.0
Windward Wall	27.07	225	.00	6.09	.00	216.2	.0	.0
Windward Wall	26.89	225	.00	6.05	.00	208.7	.0	.0
Windward Wall	26.70	225	.00	6.01	.00	201.2	.0	.0
Windward Wall	26.50	225	.00	5.96	.00	193.8	.0	.0
Windward Wall	26.30	225	.00	5.92	.00	186.4	.0	.0
Windward Wall	26.09	225	.00	5.87	.00	179.1	.0	.0
Windward Wall	25.88	225	.00	5.82	.00	171.8	.0	.0

Windward Wall	25.66	225	.00	5.77	.00	164.6	.0	.0
Windward Wall	25.44	225	.00	5.72	.00	157.4	.0	.0
Windward Wall	25.21	225	.00	5.67	.00	150.3	.0	.0
Windward Wall	24.97	225	.00	5.62	.00	143.3	.0	.0
Windward Wall	24.73	225	.00	5.56	.00	136.3	.0	.0
Windward Wall	24.47	225	.00	5.51	.00	129.4	.0	.0
Windward Wall	24.21	225	.00	5.45	.00	122.6	.0	.0
Windward Wall	23.94	225	.00	5.39	.00	115.8	.0	.0
Windward Wall	23.66	225	.00	5.32	.00	109.1	.0	.0
Windward Wall	23.36	225	.00	5.26	.00	102.5	.0	.0
Windward Wall	23.06	225	.00	5.19	.00	96.0	.0	.0
Windward Wall	22.74	225	.00	5.12	.00	89.5	.0	.0
Windward Wall	22.40	225	.00	5.04	.00	83.2	.0	.0
Windward Wall	22.05	225	.00	4.96	.00	76.9	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	70.7	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	65.9	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	61.0	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	56.1	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	51.2	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	46.3	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	41.5	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	36.6	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	31.7	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	26.8	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	22.0	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	17.1	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	12.2	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	7.3	.0	.0
Windward Wall	21.68	225	.00	4.88	.00	2.4	.0	.0
Total	.00	76260	.00	733.12	.00	22722.8	.0	.0

Normal to Ridge - Base Reactions - Walls+Roof -GCpi

Description	Press psf	Area ft^2	Fx Kip	Fy Kip	Fz Kip	Mx K-ft	My K-ft	Mz K-ft
Leeward Wall	-6.37	13500	.00	86.06	.00	2581.9	.0	.0
Side Wall	-25.40	24630	-625.71	.00	.00	.0	18771.3	.0
Side Wall	-25.40	24630	625.71	.00	.00	.0	-18771.3	.0
Windward Wall	52.82	225	.00	11.89	.00	707.2	.0	.0
Windward Wall	52.70	225	.00	11.86	.00	693.7	.0	.0
Windward Wall	52.58	225	.00	11.83	.00	680.2	.0	.0
Windward Wall	52.45	225	.00	11.80	.00	666.8	.0	.0
Windward Wall	52.32	225	.00	11.77	.00	653.4	.0	.0
Windward Wall	52.20	225	.00	11.74	.00	640.1	.0	.0
Windward Wall	52.06	225	.00	11.71	.00	626.7	.0	.0
Windward Wall	51.93	225	.00	11.68	.00	613.4	.0	.0
Windward Wall	51.80	225	.00	11.65	.00	600.2	.0	.0
Windward Wall	51.66	225	.00	11.62	.00	587.0	.0	.0
Windward Wall	51.52	225	.00	11.59	.00	573.8	.0	.0
Windward Wall	51.38	225	.00	11.56	.00	560.7	.0	.0
Windward Wall	51.23	225	.00	11.53	.00	547.6	.0	.0
Windward Wall	51.09	225	.00	11.49	.00	534.5	.0	.0
Windward Wall	50.94	225	.00	11.46	.00	521.5	.0	.0
Windward Wall	50.79	225	.00	11.43	.00	508.5	.0	.0
Windward Wall	50.63	225	.00	11.39	.00	495.6	.0	.0
Windward Wall	50.47	225	.00	11.36	.00	482.7	.0	.0
Windward Wall	50.31	225	.00	11.32	.00	469.8	.0	.0
Windward Wall	50.15	225	.00	11.28	.00	457.0	.0	.0
Windward Wall	49.98	225	.00	11.25	.00	444.2	.0	.0
Windward Wall	49.81	225	.00	11.21	.00	431.5	.0	.0
Windward Wall	49.64	225	.00	11.17	.00	418.8	.0	.0
Windward Wall	49.46	225	.00	11.13	.00	406.2	.0	.0
Windward Wall	49.28	225	.00	11.09	.00	393.6	.0	.0
Windward Wall	49.09	225	.00	11.05	.00	381.1	.0	.0
Windward Wall	48.90	225	.00	11.00	.00	368.6	.0	.0
Windward Wall	48.70	225	.00	10.96	.00	356.1	.0	.0
Windward Wall	48.50	225	.00	10.91	.00	343.8	.0	.0
Windward Wall	48.30	225	.00	10.87	.00	331.4	.0	.0
Windward Wall	48.08	225	.00	10.82	.00	319.2	.0	.0
Windward Wall	47.87	225	.00	10.77	.00	306.9	.0	.0
Windward Wall	47.64	225	.00	10.72	.00	294.8	.0	.0
Windward Wall	47.41	225	.00	10.67	.00	282.7	.0	.0
Windward Wall	47.18	225	.00	10.61	.00	270.7	.0	.0
Windward Wall	46.93	225	.00	10.56	.00	258.7	.0	.0
Windward Wall	46.68	225	.00	10.50	.00	246.8	.0	.0
Windward Wall	46.41	225	.00	10.44	.00	235.0	.0	.0

Windward Wall	46.14	225	.00	10.38	.00	223.2	.0	.0
Windward Wall	45.86	225	.00	10.32	.00	211.5	.0	.0
Windward Wall	45.57	225	.00	10.25	.00	199.9	.0	.0
Windward Wall	45.26	225	.00	10.18	.00	188.4	.0	.0
Windward Wall	44.94	225	.00	10.11	.00	177.0	.0	.0
Windward Wall	44.61	225	.00	10.04	.00	165.6	.0	.0
Windward Wall	44.25	225	.00	9.96	.00	154.3	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	143.2	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	133.3	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	123.4	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	113.6	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	103.7	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	93.8	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	83.9	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	74.1	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	64.2	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	54.3	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	44.4	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	34.6	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	24.7	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	14.8	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	4.9	.0	.0
Roof (0 to h/2)	-35.83	6750	.00	.00	241.88	46018.4	.0	.0
Roof (h/2 to h)	-35.83	6750	.00	.00	241.88	38761.9	.0	.0
Roof (h to 2h)	-14.97	13500	.00	.00	202.15	23297.9	.0	.0
Roof (>2h)	-4.54	65363	.00	.00	297.00	-17820.1	.0	.0
Total	.00	168623	.00	733.12	982.92	112980.9	.0	.0

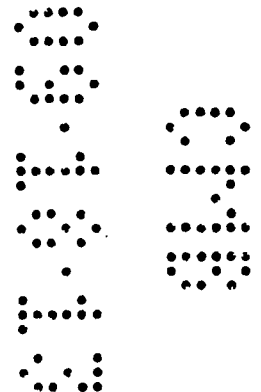
Normal to Ridge - Base Reactions - Walls Only -GCpi

Description	Press psf	Area ft^2	Fx Kip	Fy Kip	Fz Kip	Mx K-ft	My K-ft	Mz K-ft
Leeward Wall	-6.37	13500	.00	86.06	.00	2581.9	.0	.0
Side Wall	-25.40	24630	-625.71	.00	.00	.0	18771.3	.0
Side Wall	-25.40	24630	625.71	.00	.00	.0	-18771.3	.0
Windward Wall	52.82	225	.00	11.89	.00	707.2	.0	.0
Windward Wall	52.70	225	.00	11.86	.00	693.7	.0	.0
Windward Wall	52.58	225	.00	11.83	.00	680.2	.0	.0
Windward Wall	52.45	225	.00	11.80	.00	666.8	.0	.0
Windward Wall	52.32	225	.00	11.77	.00	653.4	.0	.0
Windward Wall	52.20	225	.00	11.74	.00	640.1	.0	.0
Windward Wall	52.06	225	.00	11.71	.00	626.7	.0	.0
Windward Wall	51.93	225	.00	11.68	.00	613.4	.0	.0
Windward Wall	51.80	225	.00	11.65	.00	600.2	.0	.0
Windward Wall	51.66	225	.00	11.62	.00	587.0	.0	.0
Windward Wall	51.52	225	.00	11.59	.00	573.8	.0	.0
Windward Wall	51.38	225	.00	11.56	.00	560.7	.0	.0
Windward Wall	51.23	225	.00	11.53	.00	547.6	.0	.0
Windward Wall	51.09	225	.00	11.49	.00	534.5	.0	.0
Windward Wall	50.94	225	.00	11.46	.00	521.5	.0	.0
Windward Wall	50.79	225	.00	11.43	.00	508.5	.0	.0
Windward Wall	50.63	225	.00	11.39	.00	495.6	.0	.0
Windward Wall	50.47	225	.00	11.36	.00	482.7	.0	.0
Windward Wall	50.31	225	.00	11.32	.00	469.8	.0	.0
Windward Wall	50.15	225	.00	11.28	.00	457.0	.0	.0
Windward Wall	49.98	225	.00	11.25	.00	444.2	.0	.0
Windward Wall	49.81	225	.00	11.21	.00	431.5	.0	.0
Windward Wall	49.64	225	.00	11.17	.00	418.8	.0	.0
Windward Wall	49.46	225	.00	11.13	.00	406.2	.0	.0
Windward Wall	49.28	225	.00	11.09	.00	393.6	.0	.0
Windward Wall	49.09	225	.00	11.05	.00	381.1	.0	.0
Windward Wall	48.90	225	.00	11.00	.00	368.6	.0	.0
Windward Wall	48.70	225	.00	10.96	.00	356.1	.0	.0
Windward Wall	48.50	225	.00	10.91	.00	343.8	.0	.0
Windward Wall	48.30	225	.00	10.87	.00	331.4	.0	.0
Windward Wall	48.08	225	.00	10.82	.00	319.2	.0	.0
Windward Wall	47.87	225	.00	10.77	.00	306.9	.0	.0
Windward Wall	47.64	225	.00	10.72	.00	294.8	.0	.0
Windward Wall	47.41	225	.00	10.67	.00	282.7	.0	.0
Windward Wall	47.18	225	.00	10.61	.00	270.7	.0	.0
Windward Wall	46.93	225	.00	10.56	.00	258.7	.0	.0
Windward Wall	46.68	225	.00	10.50	.00	246.8	.0	.0
Windward Wall	46.41	225	.00	10.44	.00	235.0	.0	.0
Windward Wall	46.14	225	.00	10.38	.00	223.2	.0	.0
Windward Wall	45.86	225	.00	10.32	.00	211.5	.0	.0
Windward Wall	45.57	225	.00	10.25	.00	199.9	.0	.0

Windward Wall	45.26	225	.00	10.18	.00	188.4	.0	.0
Windward Wall	44.94	225	.00	10.11	.00	177.0	.0	.0
Windward Wall	44.61	225	.00	10.04	.00	165.6	.0	.0
Windward Wall	44.25	225	.00	9.96	.00	154.3	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	143.2	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	133.3	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	123.4	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	113.6	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	103.7	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	93.8	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	83.9	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	74.1	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	64.2	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	54.3	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	44.4	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	34.6	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	24.7	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	14.8	.0	.0
Windward Wall	43.88	225	.00	9.87	.00	4.9	.0	.0
<hr/>								
Total	.00	76260	.00	733.12	.00	22722.8	.0	.0

Normal to Ridge - Base Reactions - Walls+Roof MIN

Description	Press psf	Area* ft^2	Fx Kip	Fy Kip	Fz Kip	Mx K-ft	My K-ft	Mz K-ft
Windward Wall	9.60	225	.00	2.16	.00	128.5	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	126.4	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	124.2	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	122.0	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	119.9	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	117.7	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	115.6	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	113.4	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	111.2	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	109.1	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	106.9	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	104.8	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	102.6	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	100.4	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	98.3	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	96.1	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	94.0	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	91.8	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	89.6	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	87.5	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	85.3	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	83.2	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	81.0	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	78.8	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	76.7	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	74.5	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	72.4	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	70.2	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	68.0	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	65.9	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	63.7	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	61.6	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	59.4	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	57.2	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	55.1	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	52.9	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	50.8	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	48.6	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	46.4	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	44.3	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	42.1	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	40.0	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	37.8	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	35.6	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	33.5	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	31.3	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	29.2	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	27.0	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	24.8	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	22.7	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	20.5	.0	.0



Windward Wall	9.60	225	.00	2.16	.00	18.4	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	16.2	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	14.0	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	11.9	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	9.7	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	7.6	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	5.4	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	3.2	.0	.0
Windward Wall	9.60	225	.00	2.16	.00	1.1	.0	.0
Roof (0 to h/2)	4.80	0	.00	.00	.00	.0	.0	.0
Roof (h/2 to h)	4.80	0	.00	.00	.00	.0	.0	.0
Roof (h to 2h)	4.80	0	.00	.00	.00	.0	.0	.0
Roof (>2h)	4.80	0	.00	.00	.00	.0	.0	.0
Total	.00	13500	.00	129.60	.00	3888.0	.0	.0

#### Notes - Normal to Ridge

- Note (1) Per Fig 27.4-1 Note 7, Since  $\Theta \leq 10$  Deg base calcs on Eave Ht  
Note (2) Wall & Roof Pressures =  $Qh \cdot (G \cdot C_p - GC_{pi})$   
Note (3)  $+GC_{pi}$  = Positive Internal Bldg Press,  $-GC_{pi}$  = Negative Internal Bldg Press  
Note (4) Total Pressure = Leeward Press + Windward Press (For + or -  $GC_{pi}$ )  
Note (5) Ref Fig 27.4-1, Normal to Ridge ( $\Theta < 10$ ),  $\Theta = .0$  Deg,  $h/l = 0.15$   
Note (6)  $X$  = Along Building ridge,  $Y$  = Normal to Building Ridge,  $Z$  = Vertical  
Note (7) MIN = Minimum pressures on Walls = 9.6 psf and Roof = 4.8 psf  
Note (8) Area\* = Area of the surface projected onto a vertical plane normal to wind.

MWFRS-Wall Pressures for Wind Normal to 410.5 ft wall (Along Ridge)  
All pressures shown are based upon ASD Design, with a Load Factor of .6

Wall	Cp	Pressure +GCpi (psf)	Pressure -GCpi (psf)
Leeward Wall	-0.50	-37.18	-14.97
Side Walls	-0.70	-47.61	-25.40

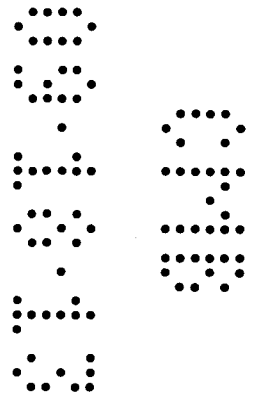
Wall	Elev ft	Kz	Kzt	Cp	qz psf	Press +GCpi	Press -GCpi	Total +/-GCpi
Windward	60.00	1.31	1.00	0.80	61.67	30.62	52.82	67.80
Windward	59.00	1.31	1.00	0.80	61.49	30.50	52.70	67.67
Windward	58.00	1.30	1.00	0.80	61.31	30.37	52.58	67.55
Windward	57.00	1.30	1.00	0.80	61.13	30.25	52.45	67.43
Windward	56.00	1.30	1.00	0.80	60.94	30.12	52.32	67.30
Windward	55.00	1.29	1.00	0.80	60.75	29.99	52.20	67.17
Windward	54.00	1.29	1.00	0.80	60.55	29.86	52.06	67.04
Windward	53.00	1.28	1.00	0.80	60.36	29.73	51.93	66.91
Windward	52.00	1.28	1.00	0.80	60.16	29.59	51.80	66.77
Windward	51.00	1.27	1.00	0.80	59.96	29.46	51.66	66.63
Windward	50.00	1.27	1.00	0.80	59.75	29.32	51.52	66.49
Windward	49.00	1.27	1.00	0.80	59.54	29.18	51.38	66.35
Windward	48.00	1.26	1.00	0.80	59.33	29.03	51.23	66.21
Windward	47.00	1.26	1.00	0.80	59.11	28.88	51.09	66.06
Windward	46.00	1.25	1.00	0.80	58.89	28.74	50.94	65.91
Windward	45.00	1.25	1.00	0.80	58.66	28.58	50.79	65.76
Windward	44.00	1.24	1.00	0.80	58.44	28.43	50.63	65.61
Windward	43.00	1.24	1.00	0.80	58.20	28.27	50.47	65.45
Windward	42.00	1.23	1.00	0.80	57.97	28.11	50.31	65.29
Windward	41.00	1.23	1.00	0.80	57.72	27.95	50.15	65.12
Windward	40.00	1.22	1.00	0.80	57.48	27.78	49.98	64.96
Windward	39.00	1.22	1.00	0.80	57.22	27.61	49.81	64.79
Windward	38.00	1.21	1.00	0.80	56.97	27.43	49.64	64.61
Windward	37.00	1.21	1.00	0.80	56.70	27.26	49.46	64.43
Windward	36.00	1.20	1.00	0.80	56.43	27.07	49.28	64.25
Windward	35.00	1.19	1.00	0.80	56.16	26.89	49.09	64.06
Windward	34.00	1.19	1.00	0.80	55.87	26.70	48.90	63.87
Windward	33.00	1.18	1.00	0.80	55.58	26.50	48.70	63.68
Windward	32.00	1.18	1.00	0.80	55.29	26.30	48.50	63.48
Windward	31.00	1.17	1.00	0.80	54.98	26.09	48.30	63.27
Windward	30.00	1.16	1.00	0.80	54.67	25.88	48.08	63.06
Windward	29.00	1.16	1.00	0.80	54.35	25.66	47.87	62.84
Windward	28.00	1.15	1.00	0.80	54.02	25.44	47.64	62.62
Windward	27.00	1.14	1.00	0.80	53.68	25.21	47.41	62.39
Windward	26.00	1.13	1.00	0.80	53.33	24.97	47.18	62.15
Windward	25.00	1.13	1.00	0.80	52.96	24.73	46.93	61.90
Windward	24.00	1.12	1.00	0.80	52.59	24.47	46.68	61.65
Windward	23.00	1.11	1.00	0.80	52.20	24.21	46.41	61.39

Windward	22.00	1.10	1.00	0.80	51.80	23.94	46.14	61.12
Windward	21.00	1.09	1.00	0.80	51.38	23.66	45.86	60.83
Windward	20.00	1.08	1.00	0.80	50.95	23.36	45.57	60.54
Windward	19.00	1.07	1.00	0.80	50.50	23.06	45.26	60.23
Windward	18.00	1.06	1.00	0.80	50.02	22.74	44.94	59.91
Windward	17.00	1.05	1.00	0.80	49.53	22.40	44.61	59.58
Windward	16.00	1.04	1.00	0.80	49.01	22.05	44.25	59.23
Windward	15.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	14.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	13.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	12.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	11.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	10.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	9.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	8.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	7.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	6.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	5.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	4.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	3.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	2.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86
Windward	1.00	1.03	1.00	0.80	48.46	21.68	43.88	58.86

Roof - Dist from Windward Edge	Cp	Pressure +GCpi (psf)	Pressure -GCpi (psf)
Roof: 0.0 ft to 30.0 ft	-0.90	-58.04	-35.83
Roof: 30.0 ft to 60.0 ft	-0.90	-58.04	-35.83
Roof: 60.0 ft to 120.0 ft	-0.50	-37.18	-14.97
Roof: 120.0 ft to 225.0 ft	-0.30	-26.75	-4.54

Along Ridge - Base Reactions - Walls+Roof +GCpi

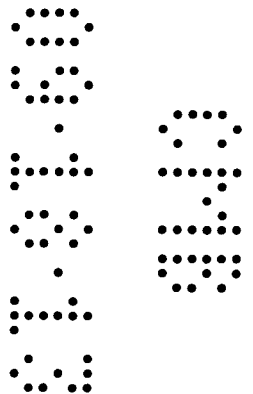
Description	Press psf	Area ft^2	Fx Kip	Fy Kip	Fz Kip	Mx K-ft	My K-ft	Mz K-ft
Leeward Wall	-37.18	24630	915.67	.00	.00	.0	-27470.1	.0
Side Wall	-47.61	13500	.00	642.70	.00	19281.0	.0	.0
Side Wall	-47.61	13500	.00	-642.70	.00	-19281.0	.0	.0
Windward Wall	30.62	411	12.57	.00	.00	.0	-747.9	.0
Windward Wall	30.50	411	12.52	.00	.00	.0	-732.4	.0
Windward Wall	30.37	411	12.47	.00	.00	.0	-716.9	.0
Windward Wall	30.25	411	12.42	.00	.00	.0	-701.6	.0
Windward Wall	30.12	411	12.37	.00	.00	.0	-686.3	.0
Windward Wall	29.99	411	12.31	.00	.00	.0	-671.0	.0
Windward Wall	29.86	411	12.26	.00	.00	.0	-655.8	.0
Windward Wall	29.73	411	12.20	.00	.00	.0	-640.7	.0
Windward Wall	29.59	411	12.15	.00	.00	.0	-625.6	.0
Windward Wall	29.46	411	12.09	.00	.00	.0	-610.6	.0
Windward Wall	29.32	411	12.03	.00	.00	.0	-595.7	.0
Windward Wall	29.18	411	11.98	.00	.00	.0	-580.9	.0
Windward Wall	29.03	411	11.92	.00	.00	.0	-566.1	.0
Windward Wall	28.88	411	11.86	.00	.00	.0	-551.4	.0
Windward Wall	28.74	411	11.80	.00	.00	.0	-536.7	.0
Windward Wall	28.58	411	11.73	.00	.00	.0	-522.1	.0
Windward Wall	28.43	411	11.67	.00	.00	.0	-507.6	.0
Windward Wall	28.27	411	11.61	.00	.00	.0	-493.2	.0
Windward Wall	28.11	411	11.54	.00	.00	.0	-478.9	.0
Windward Wall	27.95	411	11.47	.00	.00	.0	-464.6	.0
Windward Wall	27.78	411	11.40	.00	.00	.0	-450.4	.0
Windward Wall	27.61	411	11.33	.00	.00	.0	-436.3	.0
Windward Wall	27.43	411	11.26	.00	.00	.0	-422.3	.0
Windward Wall	27.26	411	11.19	.00	.00	.0	-408.4	.0
Windward Wall	27.07	411	11.11	.00	.00	.0	-394.5	.0
Windward Wall	26.89	411	11.04	.00	.00	.0	-380.8	.0
Windward Wall	26.70	411	10.96	.00	.00	.0	-367.1	.0
Windward Wall	26.50	411	10.88	.00	.00	.0	-353.5	.0
Windward Wall	26.30	411	10.80	.00	.00	.0	-340.1	.0
Windward Wall	26.09	411	10.71	.00	.00	.0	-326.7	.0
Windward Wall	25.88	411	10.62	.00	.00	.0	-313.4	.0
Windward Wall	25.66	411	10.54	.00	.00	.0	-300.3	.0
Windward Wall	25.44	411	10.44	.00	.00	.0	-287.2	.0
Windward Wall	25.21	411	10.35	.00	.00	.0	-274.2	.0
Windward Wall	24.97	411	10.25	.00	.00	.0	-261.4	.0
Windward Wall	24.73	411	10.15	.00	.00	.0	-248.7	.0
Windward Wall	24.47	411	10.05	.00	.00	.0	-236.1	.0
Windward Wall	24.21	411	9.94	.00	.00	.0	-223.6	.0



Windward Wall	23.94	411	9.83	.00	.00	.0	-211.3	.0
Windward Wall	23.66	411	9.71	.00	.00	.0	-199.1	.0
Windward Wall	23.36	411	9.59	.00	.00	.0	-187.0	.0
Windward Wall	23.06	411	9.47	.00	.00	.0	-175.1	.0
Windward Wall	22.74	411	9.33	.00	.00	.0	-163.3	.0
Windward Wall	22.40	411	9.20	.00	.00	.0	-151.7	.0
Windward Wall	22.05	411	9.05	.00	.00	.0	-140.3	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-129.1	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-120.2	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-111.3	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-102.4	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-93.5	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-84.6	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-75.7	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-66.8	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-57.9	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-49.0	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-40.1	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-31.2	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-22.3	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-13.4	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-4.5	.0
Roof	-58.04	12315	.00	.00	714.73	.0	-69686.4	.0
Roof	-58.04	12315	.00	.00	714.73	.0	-48244.4	.0
Roof	-37.18	24630	.00	.00	915.67	.0	-20602.6	.0
Roof	-26.75	43103	.00	.00	1152.86	.0	69171.3	.0
<hr/>								
Total	.00	168623	1549.33	.00	3497.99	.0	-117172.5	.0

Along Ridge - Base Reactions - Walls Only +GCpi

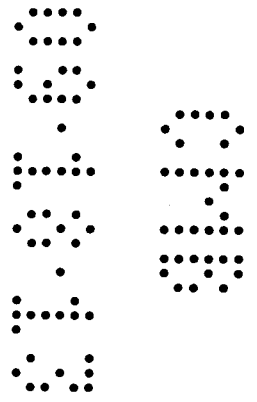
Description	Press psf	Area ft^2	Fx Kip	Fy Kip	Fz Kip	Mx K-ft	My K-ft	Mz K-ft
<hr/>								
Leeward Wall	-37.18	24630	915.67	.00	.00	.0	-27470.1	.0
Side Wall	-47.61	13500	.00	642.70	.00	19281.0	.0	.0
Side Wall	-47.61	13500	.00	-642.70	.00	-19281.0	.0	.0
Windward Wall	30.62	411	12.57	.00	.00	.0	-747.9	.0
Windward Wall	30.50	411	12.52	.00	.00	.0	-732.4	.0
Windward Wall	30.37	411	12.47	.00	.00	.0	-716.9	.0
Windward Wall	30.25	411	12.42	.00	.00	.0	-701.6	.0
Windward Wall	30.12	411	12.37	.00	.00	.0	-686.3	.0
Windward Wall	29.99	411	12.31	.00	.00	.0	-671.0	.0
Windward Wall	29.86	411	12.26	.00	.00	.0	-655.8	.0
Windward Wall	29.73	411	12.20	.00	.00	.0	-640.7	.0
Windward Wall	29.59	411	12.15	.00	.00	.0	-625.6	.0
Windward Wall	29.46	411	12.09	.00	.00	.0	-610.6	.0
Windward Wall	29.32	411	12.03	.00	.00	.0	-595.7	.0
Windward Wall	29.18	411	11.98	.00	.00	.0	-580.9	.0
Windward Wall	29.03	411	11.92	.00	.00	.0	-566.1	.0
Windward Wall	28.88	411	11.86	.00	.00	.0	-551.4	.0
Windward Wall	28.74	411	11.80	.00	.00	.0	-536.7	.0
Windward Wall	28.58	411	11.73	.00	.00	.0	-522.1	.0
Windward Wall	28.43	411	11.67	.00	.00	.0	-507.6	.0
Windward Wall	28.27	411	11.61	.00	.00	.0	-493.2	.0
Windward Wall	28.11	411	11.54	.00	.00	.0	-478.9	.0
Windward Wall	27.95	411	11.47	.00	.00	.0	-464.6	.0
Windward Wall	27.78	411	11.40	.00	.00	.0	-450.4	.0
Windward Wall	27.61	411	11.33	.00	.00	.0	-436.3	.0
Windward Wall	27.43	411	11.26	.00	.00	.0	-422.3	.0
Windward Wall	27.26	411	11.19	.00	.00	.0	-408.4	.0
Windward Wall	27.07	411	11.11	.00	.00	.0	-394.5	.0
Windward Wall	26.89	411	11.04	.00	.00	.0	-380.8	.0
Windward Wall	26.70	411	10.96	.00	.00	.0	-367.1	.0
Windward Wall	26.50	411	10.88	.00	.00	.0	-353.5	.0
Windward Wall	26.30	411	10.80	.00	.00	.0	-340.1	.0
Windward Wall	26.09	411	10.71	.00	.00	.0	-326.7	.0
Windward Wall	25.88	411	10.62	.00	.00	.0	-313.4	.0
Windward Wall	25.66	411	10.54	.00	.00	.0	-300.3	.0
Windward Wall	25.44	411	10.44	.00	.00	.0	-287.2	.0
Windward Wall	25.21	411	10.35	.00	.00	.0	-274.2	.0
Windward Wall	24.97	411	10.25	.00	.00	.0	-261.4	.0
Windward Wall	24.73	411	10.15	.00	.00	.0	-248.7	.0
Windward Wall	24.47	411	10.05	.00	.00	.0	-236.1	.0
Windward Wall	24.21	411	9.94	.00	.00	.0	-223.6	.0
Windward Wall	23.94	411	9.83	.00	.00	.0	-211.3	.0
Windward Wall	23.66	411	9.71	.00	.00	.0	-199.1	.0
Windward Wall	23.36	411	9.59	.00	.00	.0	-187.0	.0



Windward Wall	23.06	411	9.47	.00	.00	.0	-175.1	.0
Windward Wall	22.74	411	9.33	.00	.00	.0	-163.3	.0
Windward Wall	22.40	411	9.20	.00	.00	.0	-151.7	.0
Windward Wall	22.05	411	9.05	.00	.00	.0	-140.3	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-129.1	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-120.2	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-111.3	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-102.4	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-93.5	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-84.6	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-75.7	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-66.8	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-57.9	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-49.0	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-40.1	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-31.2	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-22.3	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-13.4	.0
Windward Wall	21.68	411	8.90	.00	.00	.0	-4.5	.0
Total	.00	76260	1549.33	.00	.00	.0	-47810.4	.0

Along Ridge - Base Reactions - Walls+Roof -GCpi

Description	Press psf	Area ft^2	Fx Kip	Fy Kip	Fz Kip	Mx K-ft	My K-ft	Mz K-ft
Leeward Wall	-14.97	24630	368.81	.00	.00	.0	-11064.4	.0
Side Wall	-25.40	13500	.00	342.96	.00	10288.8	.0	.0
Side Wall	-25.40	13500	.00	-342.96	.00	-10288.8	.0	.0
Windward Wall	52.82	411	21.68	.00	.00	.0	-1290.2	.0
Windward Wall	52.70	411	21.63	.00	.00	.0	-1265.6	.0
Windward Wall	52.58	411	21.58	.00	.00	.0	-1241.0	.0
Windward Wall	52.45	411	21.53	.00	.00	.0	-1216.5	.0
Windward Wall	52.32	411	21.48	.00	.00	.0	-1192.1	.0
Windward Wall	52.20	411	21.43	.00	.00	.0	-1167.7	.0
Windward Wall	52.06	411	21.37	.00	.00	.0	-1143.4	.0
Windward Wall	51.93	411	21.32	.00	.00	.0	-1119.2	.0
Windward Wall	51.80	411	21.26	.00	.00	.0	-1095.0	.0
Windward Wall	51.66	411	21.21	.00	.00	.0	-1070.9	.0
Windward Wall	51.52	411	21.15	.00	.00	.0	-1046.9	.0
Windward Wall	51.38	411	21.09	.00	.00	.0	-1022.9	.0
Windward Wall	51.23	411	21.03	.00	.00	.0	-999.0	.0
Windward Wall	51.09	411	20.97	.00	.00	.0	-975.2	.0
Windward Wall	50.94	411	20.91	.00	.00	.0	-951.4	.0
Windward Wall	50.79	411	20.85	.00	.00	.0	-927.7	.0
Windward Wall	50.63	411	20.78	.00	.00	.0	-904.1	.0
Windward Wall	50.47	411	20.72	.00	.00	.0	-880.6	.0
Windward Wall	50.31	411	20.65	.00	.00	.0	-857.1	.0
Windward Wall	50.15	411	20.59	.00	.00	.0	-833.7	.0
Windward Wall	49.98	411	20.52	.00	.00	.0	-810.4	.0
Windward Wall	49.81	411	20.45	.00	.00	.0	-787.2	.0
Windward Wall	49.64	411	20.38	.00	.00	.0	-764.1	.0
Windward Wall	49.46	411	20.30	.00	.00	.0	-741.0	.0
Windward Wall	49.28	411	20.23	.00	.00	.0	-718.1	.0
Windward Wall	49.09	411	20.15	.00	.00	.0	-695.2	.0
Windward Wall	48.90	411	20.07	.00	.00	.0	-672.4	.0
Windward Wall	48.70	411	19.99	.00	.00	.0	-649.8	.0
Windward Wall	48.50	411	19.91	.00	.00	.0	-627.2	.0
Windward Wall	48.30	411	19.83	.00	.00	.0	-604.7	.0
Windward Wall	48.08	411	19.74	.00	.00	.0	-582.3	.0
Windward Wall	47.87	411	19.65	.00	.00	.0	-560.0	.0
Windward Wall	47.64	411	19.56	.00	.00	.0	-537.8	.0
Windward Wall	47.41	411	19.46	.00	.00	.0	-515.8	.0
Windward Wall	47.18	411	19.37	.00	.00	.0	-493.8	.0
Windward Wall	46.93	411	19.26	.00	.00	.0	-472.0	.0
Windward Wall	46.68	411	19.16	.00	.00	.0	-450.3	.0
Windward Wall	46.41	411	19.05	.00	.00	.0	-428.7	.0
Windward Wall	46.14	411	18.94	.00	.00	.0	-407.2	.0
Windward Wall	45.86	411	18.83	.00	.00	.0	-385.9	.0
Windward Wall	45.57	411	18.70	.00	.00	.0	-364.7	.0
Windward Wall	45.26	411	18.58	.00	.00	.0	-343.7	.0
Windward Wall	44.94	411	18.45	.00	.00	.0	-322.8	.0
Windward Wall	44.61	411	18.31	.00	.00	.0	-302.1	.0
Windward Wall	44.25	411	18.17	.00	.00	.0	-281.6	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-261.2	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-243.2	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-225.2	.0

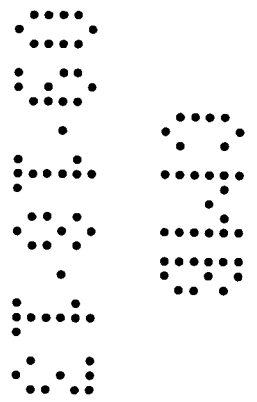




Windward Wall	43.88	411	18.01	.00	.00	.0	-207.2	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-189.2	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-171.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-153.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-135.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-117.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-99.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-81.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-63.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-45.0	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-27.0	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-9.0	.0
Roof	-35.83	12315	.00	.00	441.30	.0	-43027.1	.0
Roof	-35.83	12315	.00	.00	441.30	.0	-29788.0	.0
Roof	-14.97	24630	.00	.00	368.81	.0	-8298.3	.0
Roof	-4.54	43103	.00	.00	195.85	.0	11751.2	.0
<hr/>								
Total	.00	168623	1549.33	.00	1447.27	.0	-117172.5	.0

Along Ridge - Base Reactions - Walls Only -GCpi

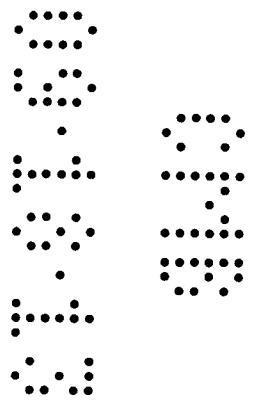
Description	Press psf	Area ft^2	Fx Kip	Fy Kip	Fz Kip	Mx K-ft	My K-ft	Mz K-ft
<hr/>								
Leeward Wall	-14.97	24630	368.81	.00	.00	.0	-11064.4	.0
Side Wall	-25.40	13500	.00	342.96	.00	10288.8	.0	.0
Side Wall	-25.40	13500	.00	-342.96	.00	-10288.8	.0	.0
Windward Wall	52.82	411	21.68	.00	.00	.0	-1290.2	.0
Windward Wall	52.70	411	21.63	.00	.00	.0	-1265.6	.0
Windward Wall	52.58	411	21.58	.00	.00	.0	-1241.0	.0
Windward Wall	52.45	411	21.53	.00	.00	.0	-1216.5	.0
Windward Wall	52.32	411	21.48	.00	.00	.0	-1192.1	.0
Windward Wall	52.20	411	21.43	.00	.00	.0	-1167.7	.0
Windward Wall	52.06	411	21.37	.00	.00	.0	-1143.4	.0
Windward Wall	51.93	411	21.32	.00	.00	.0	-1119.2	.0
Windward Wall	51.80	411	21.26	.00	.00	.0	-1095.0	.0
Windward Wall	51.66	411	21.21	.00	.00	.0	-1070.9	.0
Windward Wall	51.52	411	21.15	.00	.00	.0	-1046.9	.0
Windward Wall	51.38	411	21.09	.00	.00	.0	-1022.9	.0
Windward Wall	51.23	411	21.03	.00	.00	.0	-999.0	.0
Windward Wall	51.09	411	20.97	.00	.00	.0	-975.2	.0
Windward Wall	50.94	411	20.91	.00	.00	.0	-951.4	.0
Windward Wall	50.79	411	20.85	.00	.00	.0	-927.7	.0
Windward Wall	50.63	411	20.78	.00	.00	.0	-904.1	.0
Windward Wall	50.47	411	20.72	.00	.00	.0	-880.6	.0
Windward Wall	50.31	411	20.65	.00	.00	.0	-857.1	.0
Windward Wall	50.15	411	20.59	.00	.00	.0	-833.7	.0
Windward Wall	49.98	411	20.52	.00	.00	.0	-810.4	.0
Windward Wall	49.81	411	20.45	.00	.00	.0	-787.2	.0
Windward Wall	49.64	411	20.38	.00	.00	.0	-764.1	.0
Windward Wall	49.46	411	20.30	.00	.00	.0	-741.0	.0
Windward Wall	49.28	411	20.23	.00	.00	.0	-718.1	.0
Windward Wall	49.09	411	20.15	.00	.00	.0	-695.2	.0
Windward Wall	48.90	411	20.07	.00	.00	.0	-672.4	.0
Windward Wall	48.70	411	19.99	.00	.00	.0	-649.8	.0
Windward Wall	48.50	411	19.91	.00	.00	.0	-627.2	.0
Windward Wall	48.30	411	19.83	.00	.00	.0	-604.7	.0
Windward Wall	48.08	411	19.74	.00	.00	.0	-582.3	.0
Windward Wall	47.87	411	19.65	.00	.00	.0	-560.0	.0
Windward Wall	47.64	411	19.56	.00	.00	.0	-537.8	.0
Windward Wall	47.41	411	19.46	.00	.00	.0	-515.8	.0
Windward Wall	47.18	411	19.37	.00	.00	.0	-493.8	.0
Windward Wall	46.93	411	19.26	.00	.00	.0	-472.0	.0
Windward Wall	46.68	411	19.16	.00	.00	.0	-450.3	.0
Windward Wall	46.41	411	19.05	.00	.00	.0	-428.7	.0
Windward Wall	46.14	411	18.94	.00	.00	.0	-407.2	.0
Windward Wall	45.86	411	18.83	.00	.00	.0	-385.9	.0
Windward Wall	45.57	411	18.70	.00	.00	.0	-364.7	.0
Windward Wall	45.26	411	18.58	.00	.00	.0	-343.7	.0
Windward Wall	44.94	411	18.45	.00	.00	.0	-322.8	.0
Windward Wall	44.61	411	18.31	.00	.00	.0	-302.1	.0
Windward Wall	44.25	411	18.17	.00	.00	.0	-281.6	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-261.2	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-243.2	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-225.2	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-207.2	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-189.2	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-171.1	.0



Windward Wall	43.88	411	18.01	.00	.00	.0	-153.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-135.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-117.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-99.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-81.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-63.1	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-45.0	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-27.0	.0
Windward Wall	43.88	411	18.01	.00	.00	.0	-9.0	.0
Total	.00	76260	1549.33	.00	.00	.0	-47810.4	.0

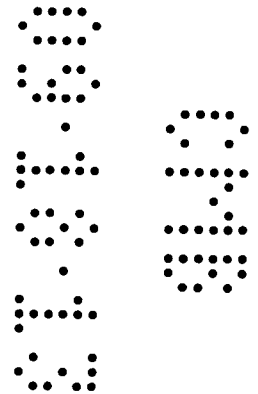
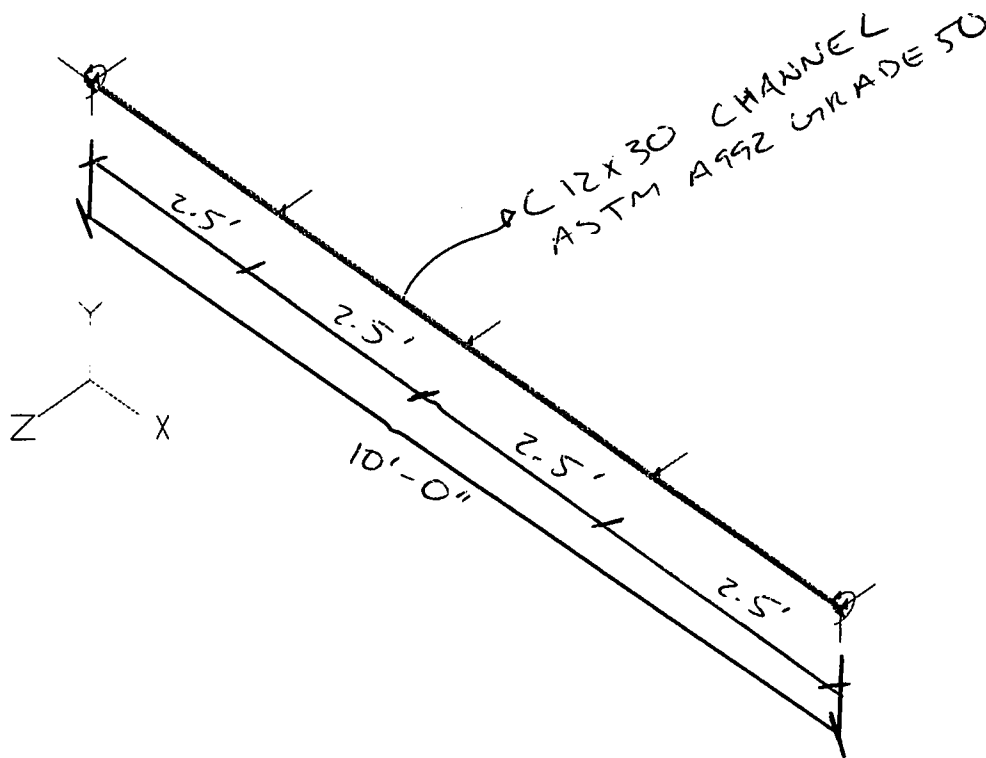
Along Ridge - Base Reactions - Walls+Roof MIN

Description	Press psf	Area* ft^2	Fx Kip	Fy Kip	Fz Kip	Mx K-ft	My K-ft	Mz K-ft
Windward Wall	9.60	411	3.94	.00	.00	.0	-234.5	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-230.5	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-226.6	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-222.7	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-218.7	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-214.8	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-210.8	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-206.9	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-203.0	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-199.0	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-195.1	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-191.1	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-187.2	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-183.2	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-179.3	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-175.4	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-171.4	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-167.5	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-163.5	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-159.6	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-155.7	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-151.7	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-147.8	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-143.8	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-139.9	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-136.0	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-132.0	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-128.1	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-124.1	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-120.2	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-116.3	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-112.3	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-108.4	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-104.4	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-100.5	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-96.5	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-92.6	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-88.7	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-84.7	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-80.8	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-76.8	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-72.9	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-69.0	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-65.0	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-61.1	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-57.1	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-53.2	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-49.3	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-45.3	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-41.4	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-37.4	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-33.5	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-29.6	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-25.6	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-21.7	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-17.7	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-13.8	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-9.9	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-5.9	.0
Windward Wall	9.60	411	3.94	.00	.00	.0	-2.0	.0
Roof	4.80	0	.00	.00	.00	.0	.0	.0



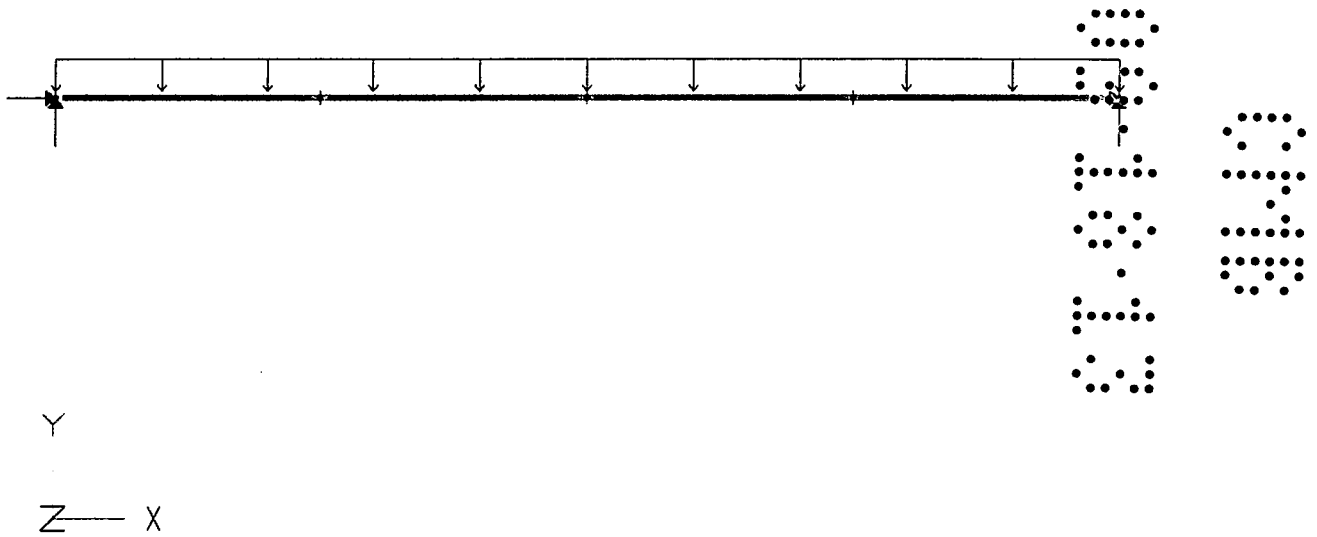
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Load Case: E+Y  
IES VisualAnalysis 10.00.0008

## C 12X30 DESIGN



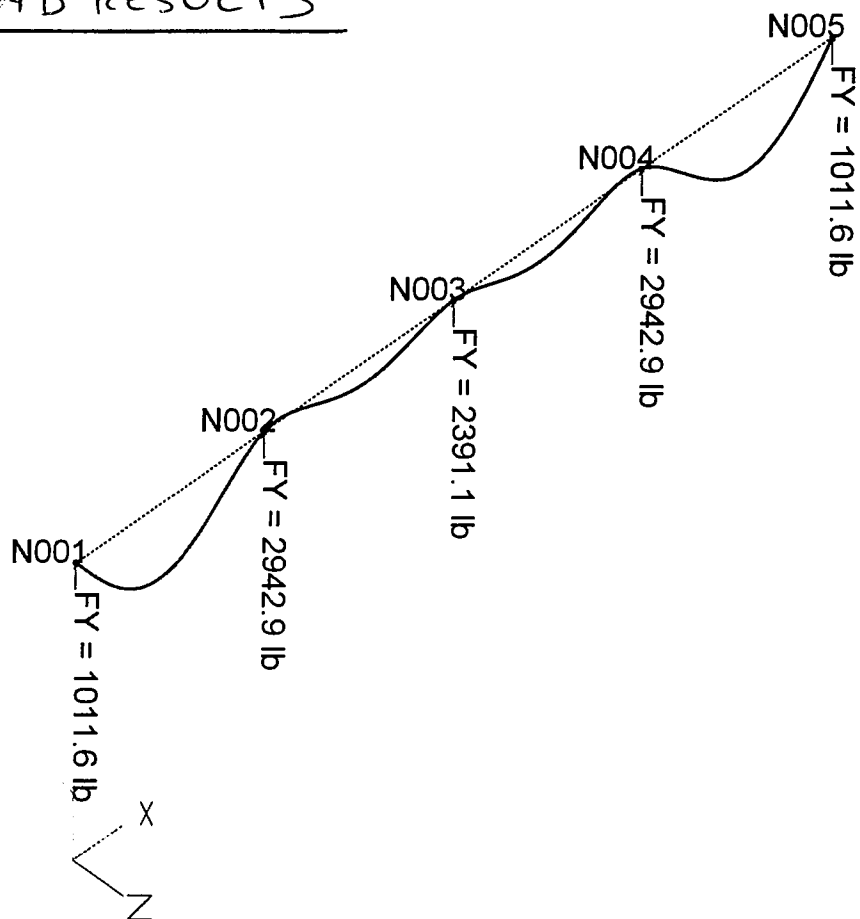
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Load Case: D  
IES VisualAnalysis 10.00.0008

DEAD LOAD



channel  
YHCE Consulting Engineers, Youssef Hachem  
Sep 03, 2013; 04:31 PM  
Result Case: D  
IES VisualAnalysis 10.00.0008

## DEAD LOAD RESULTS

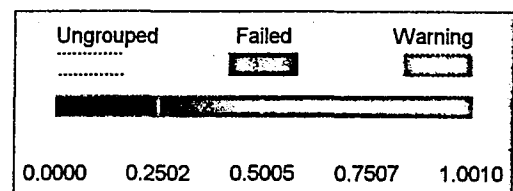
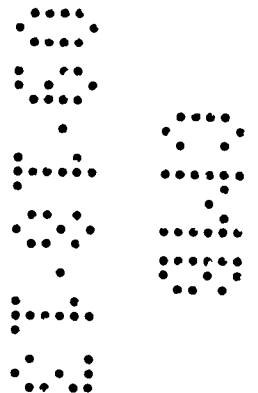
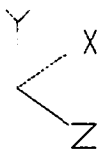
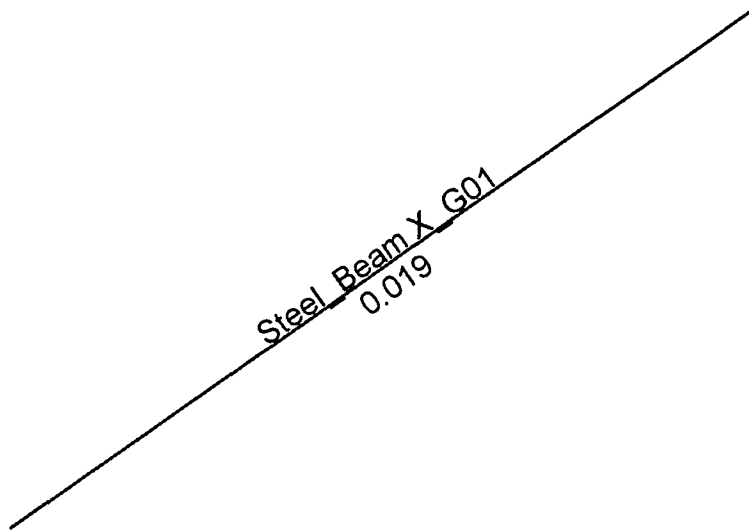


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channel  
YHCE Consulting Engineers, Youssef Hachem  
Sep 03, 2013; 04:31 PM  
Design View, Unity Checks  
IES VisualAnalysis 10.00.0008

## DEAD LOAD DESIGN VIEW



# Project: channel

Youssef Hachem, YHCE Consulting Engineers

September 03, 2013

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## Design Criteria

Vertical Direction: Y, Ground Elevation = 0.00 ft

Occupancy Category: II

Seismic Data:

Spectral Acceleration (SDS) = 0.150

Seismic Design Category: A

Overstrength Omega0: X=2.5, Z=2.5

Seismic Redundancy Rho: X=1, Z=1

## Load Cases

Load Case	Design Checks	Seismic Type	Results	Analyze?	Envelope?
(1)D	-NA-	-NA-	Yes	Yes	No
(34)0.9D+Di	Strength (LRFD)	-NA-	Yes	Yes	No
(35)1.2D+0.5L+Lpa+0.5S+Di	Strength (LRFD)	-NA-	Yes	Yes	No
(36)1.4D+0.9H	Strength (LRFD)	-NA-	Yes	Yes	No
(37)D+L	Defl. 'Other'	-NA-	Yes	Yes	No

## Member Extreme Results

Member	Fx (lc) lb	Vy (lc) lb	Vz (lc) lb	Mx (lc) lb-ft	My (lc) lb-ft	Mz (lc) lb-ft
BmX005	0.0000 (1)	-2118.1141 (36)	-0.0000 (36)	0.0000 (1)	-0.0000 (36)	-695.4942 (36)
BmX005	0.0000 (1)	2188.8020 (36)	0.0000 (36)	0.0000 (1)	0.0000 (36)	969.6480 (36)

## Member Unity Checks

Member	Unity	Controlling Case	Check	Model Shape	Design Shape	Material	Reference	Specification
BmX005	0.0187	1.4D+0.9H	Strong Flexure Check	C12x30	C12x30	ASTM A992 Grade 50	F2-2	AISC LRFD (2005)

## Nodal Extreme Displacements

Node	DX in	DY in	DZ in
N001	-NA-	-NA-	-NA-
N001	-NA-	-NA-	-NA-
N002	0.0000 (1)	-NA-	-0.0000 (35)
N002	0.0000 (1)	-NA-	-0.0000 (36)
N003	0.0000 (1)	-NA-	-0.0000 (36)
N003	0.0000 (1)	-NA-	-0.0000 (35)
N004	0.0000 (1)	-NA-	-0.0000 (35)
N004	0.0000 (1)	-NA-	-0.0000 (36)
N005	-NA-	-NA-	-NA-
N005	-NA-	-NA-	-NA-

## Nodal Extreme Reactions

Node	FX lb	FY lb	FZ lb	MX lb-ft	MY lb-ft	MZ lb-ft
N001	0.0000 (1)	910.4681 (34)	-0.0000 (36)	0.0000 (1)	-NA-	-NA-
N001	0.0000 (1)	1416.2837 (36)	0.0000 (1)	0.0000 (1)	-NA-	-NA-
N002	-NA-	2648.6344 (34)	-NA-	-NA-	-NA-	-NA-
N002	-NA-	4120.0979 (36)	-NA-	-NA-	-NA-	-NA-
N003	-NA-	2152.0154 (34)	-NA-	-NA-	-NA-	-NA-
N003	-NA-	3347.5796 (36)	-NA-	-NA-	-NA-	-NA-
N004	-NA-	2648.6344 (34)	-NA-	-NA-	-NA-	-NA-
N004	-NA-	4120.0979 (36)	-NA-	-NA-	-NA-	-NA-
N005	0.0000 (1)	910.4681 (34)	-0.0000 (36)	0.0000 (1)	-NA-	-NA-

# Project: channel

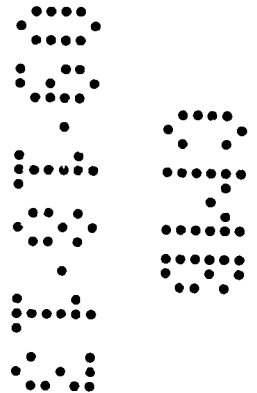
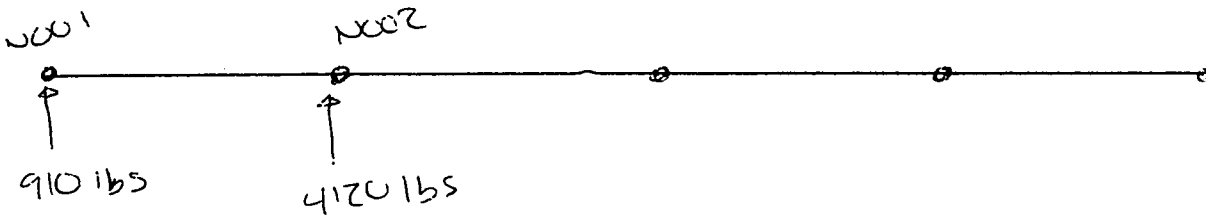
Youssef Hachem, YHCE Consulting Engineers

September 03, 2013

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N005	0.0000 ( 1)	1416.2837 (36)	0.0000 ( 1)	0.0000 ( 1)	-NA-	-NA-
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## NODAL EXTREME RESULTS



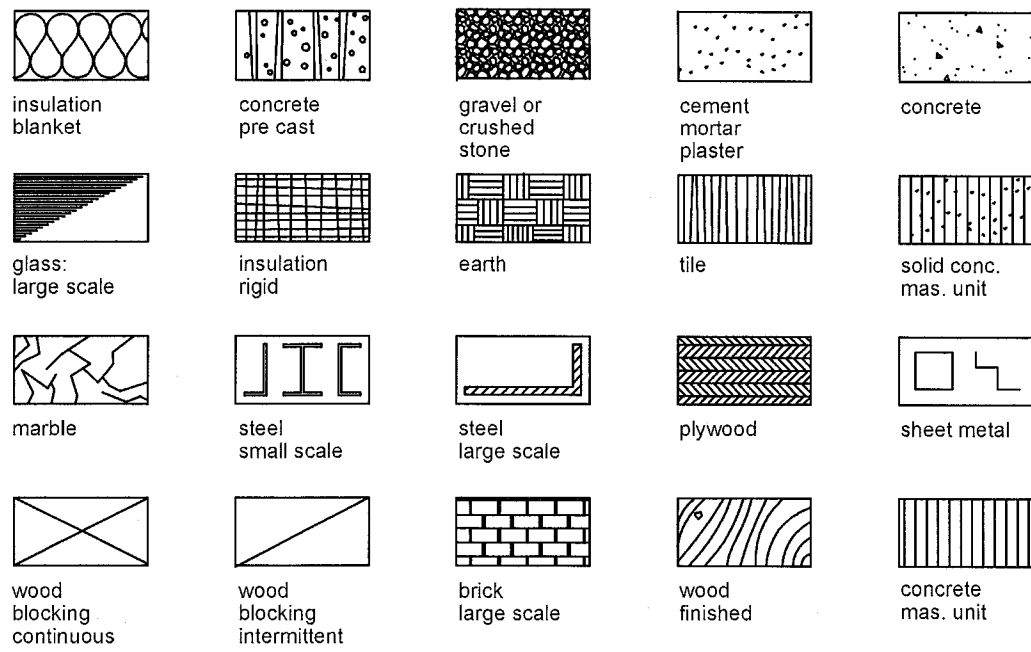


## ABBREVIATIONS

## MATERIAL LEGEND

## PROJECT TEAM

<b>A</b>	ACOUS.	ACOUSTICAL	<b>C</b>	GA.	GAUGE	<b>R</b>	R.	RISER
A.C.	AIR CONDITIONING		GALV.	GALVANIZED		RAD.	RADIUS	RADIUS
A.D.	AREA DRAIN		G.B.	GRAB BAR		R.D.	ROOF DRAIN	ROOF DRAIN
ADJ.	ADJUSTABLE		G.C.	GENERAL CONTRACTOR		REF.	REFERENCE	REFERENCE
AGGR.	AGGREGATE		GL.	GLASS		REFL.	REFLECTED	REFLECTED
AL.	ALUMINUM		GND.	GROUND		REFR.	REFRIGERATOR	REFRIGERATOR
APPROX.	APPROXIMATE		GR.	GRADE		RF.	ROOF	ROOF
ARCH.	ARCHITECTURAL		GYP.	GYPSON		RGTR.	REGISTER	REGISTER
ASB.	ASBESTOS		G.W.B.	GYPSON WALLBOARD		REINF.	REINFORCED	REINFORCED
ASPH.	ASPHALT					REQ.	REQUIRED	REQUIRED
						RESIL.	RESILIENT	RESILIENT
						RM.	ROOM	ROOM
						R.O.	ROUGH OPENING	ROUGH OPENING
						RWD.	REDWOOD	REDWOOD
						R.W.L.	RAIN WATER LEADER	RAIN WATER LEADER
<b>B</b>	BD.	BOARD	<b>H</b>	H.B.	HOSE BIB			
BITUM.	BITUMINOUS		H.C.	HOLLOW CORE				
BLDG.	BUILDING		HDWD.	HARD WOOD				
BLK.	BLOCK		HDWE.	HARDWARE				
BLKG.	BLOCKING		H.M.	HOLLOW METAL				
BLKHD.	BULKHEAD		HORIZ.	HORIZONTAL				
BM.	BEAM		HR.	HOUR				
BOT.	BOTTOM		HGT.	HEIGHT				
<b>C</b>	CAB.	CABINET	<b>I</b>	I.D.	INSIDE DIAMETER (DIM.)	<b>S</b>	S.	SOUTH
CARP.	CARPET		IN.	INCH		SABF	SABF	SOUND ATTENUATION FIRE
C.B.	CATCH BASIN		INSL.	INSULATION		S.C.	S.C.D.	SOLID CORE
CEM.	CEMENT		INT.	INTERIOR		S.C.D.	SCHED.	SEAT COVER DISPENSER
CER.	CERAMIC		INV.	INVERT		S.D.	S.D.	SOAP DISPENSER
C.I.	CAST IRON					SECT.	SECT.	SECTION
C.G.	CORNER GUARD					SH.	SH.	SHELF
CLG.	CEILING					SHR.	SHR.	SHOWER
CLKG.	CAULKING					SHT.	SHT.	SHEET
CLO.	CLOSET					SIM.	SIM.	SIMILAR
CLR.	CLEAR					S.N.R.	S.N.R.	SANITARY NAPKIN
C.M.U.	CONCRETE MASONRY UNIT					SPEC.	SPEC.	SPECIFICATION
C.O.	CEASED OPENING					SQ.	SQ.	SQUARE
COL.	COLUMN					S.S.T.	S.S.T.	STAINLESS STEEL
CONC.	CONCRETE					S.K.	S.K.	SERVICE SINK
CONN.	CONNECTION					STA.	STA.	STATION
CONSTR.	CONSTRUCTION					STD.	STD.	STANDARD
CONT.	CONTINUOUS					STL.	STL.	STEEL
CORR.	CORRIDOR					STOR.	STOR.	STORAGE
CTSK.	COUNTERSUNK					STR.	STR.	STRUCTURAL
CNTR.	COUNTER					SUSP.	SUSP.	SUSPEND
C.T.	CERAMIC TILE					SYM.	SYM.	SYMMETRICAL
CTR.	CENTER							
<b>D</b>	DBL.	DOUBLE	<b>M</b>	MAX.	MAXIMUM	<b>T</b>	TRD.	TREAD
DEPT.	DEPARTMENT		M.C.	MACHINE	MEDICINE CABINET	T.B.	T.B.	TOWEL BAR
D.F.	DRINKING FOUNTAIN		MACH.	MACHINE	MACHINE	T.C.	T.C.	TOP OF CURB
DET.	DETAIL		MECH.	MECHANICAL	MECHANICAL	TEL.	TEL.	TELEPHONE
DIA.	DIAMETER		MEMB.	MEMBRANE	MEMBRANE	TEMP.	TEMP.	TEMPERED
DIM.	DIMENSION		MET.	METAL	METAL	T. & G.	T. & G.	TONGUE AND GROOVE
DISP.	DISPENSER		MFR.	MANUFACTURER	MANUFACTURER	THK.	THK.	THICK
DN.	DOWN		MH.	MANHOLE	MANHOLE	TOIL.	TOIL.	TOILET
D.O.	DOOR OPENING		MIN.	MINIMUM	MINIMUM	T.P.	T.P.	TOP OF PAVEMENT
DR.	DOOR		MIR.	MIRROR	MIRROR	T.P.D.	T.P.D.	TOILET PAPER DISPENSER
DWR.	DRAWER		MISC.	MISCELLANEOUS	MISCELLANEOUS	T.V.	T.V.	TELEVISION
DS.	DOWN SPOUT		M.L.	MATCH LINE	MATCH LINE	T.W.	T.W.	TOP OF WALL
D.S.P.	DRY STANDPIPE		M.O.	MASONRY OPENING	MASONRY OPENING	TYP.	TYP.	TYPICAL
DWG.	DRAWING		MTD.	MOUNTED	MOUNTED	T.O.B.	T.O.B.	TOP OF BEAM
			MUL.	MULLION	MULLION	T.O.C.	T.O.C.	TOP OF CONCRETE
						T.O.S.	T.O.S.	TOP OF SLAB
<b>E</b>	EAST		<b>N</b>	N.	NORTH	<b>U</b>	UNF.	UNFINISHED
EA.	EACH		N.I.C.	NOT IN CONTRACT	NOT IN CONTRACT	U.O.N.	U.O.N.	UNLESS OTHERWISE NOTED
E.J.	EXPANSION JOINT		NO. OR #	NUMBER	NUMBER	UR.	UR.	URINAL
EL.	ELEVATION		NOM.	NOMINAL	NOMINAL			UNDERWRITERS LAB
ELEC.	ELECTRICAL		N.T.S.	NOT TO SCALE	NOT TO SCALE			
ELEV.	ELEVATOR							
EMER.	EMERGENCY		<b>O</b>	O.A.	OVERALL	<b>V</b>	V.I.F.	VERIFY IN FIELD
ENCL.	ENCLOSURE		OBS.	OBSCURE	OBSCURE	VERT.	VERT.	VERTICAL
E.P.	ELECTRICAL PANEL BOARD		O.C.	ON CENTER	ON CENTER	V.T.	V.T.	VINYL TILE
EQ.	EQUAL		O.D.	OUTSIDE DIMENSION	OUTSIDE DIMENSION	VEST.	VEST.	VESTIBULE
EQPT.	EQUIPMENT		OFF.	OFFICE	OFFICE	V.B.	V.B.	VAPOR BARRIER
E.S.	EMERGENCY OVERFLOW SCUPPER		OPNG.	OPENING	OPENING			
			OP. HD.	OPPOSITE HAND	OPPOSITE HAND			
E.W.C.	ELECTRIC WATER COOLER		OPP.	OPPOSITE	OPPOSITE			
EXST.	EXISTING					<b>W</b>	W.	WEST
EXP.	EXPOSED					WT.	WT.	WEIGHT
EXT.	EXTERIOR					W.	W.	WITH
						W.C.	W.C.	WATER CLOSET
						WD.	WD.	WOOD
						WO.	WO.	WITHOUT
						WP.	WP.	WATERPROOF
						WSCOT.	WSCOT.	WAINSCOT
<b>F</b>	F.A.	FIRE ALARM	<b>P</b>	PRCST.	PRE-CAST			
F.B.	FLAT BAR		P.L.	PROPERTY LINE	PROPERTY LINE			
F.D.	FLOOR DRAIN		P.L.	PRESSURE TREATED	PRESSURE TREATED			
FDN.	FOUNDATION		P.LAM.	PLASTIC LAMINATE	PLASTIC LAMINATE			
F.E.	FIRE EXTINGUISHER		PLAS.	PLASTER	PLASTER			
F.E.C.	FIRE EXTINGUISHER CAB.		PLYWD.	PLYWOOD	PLYWOOD			
F.H.C.	FIRE HOSE CABINET		POL.	POLISHED	POLISHED			
FIN.	FINISH		PR.	PAIR	PAIR			
FL.	FLOOR		PT.	POINT	POINT			
FLASH.	FLASHING		P.T.D.	PAPER TOWEL	PAPER TOWEL			
FLUOR.	FLUORESCENT			DISPENSER	DISPENSER			
F.O.C.	FACE OF CONCRETE							
F.O.F.	FACE OF FINISH							
F.O.S.	FACE OF STUDS							
FPRF.	FIREPROOF		PTN.	PARTITION	PARTITION			
F.S.	FULL SIZE		PTR.	PAPER TOWEL	PAPER TOWEL			
FT.	FOOT OR FEET			RECEPTACLE	RECEPTACLE			
FTG.	FOOTING							
FURR.	FURRING		<b>Q</b>	Q.T.	QUARRY TILE			
FUT.	FUTURE							
F.V.	FIELD VERIFY							
F.V.C.	FIRE VALVE CABINET							



OWNER: THE STANDARD SPA, MIAMI BEACH  
40 ISLAND AVENUE  
MIAMI BEACH, FL 33139  
Phone: 305-673-1717

DESIGN/PROJECT ARCHITECT: BEILINSON GOMEZ ARCHITECTS PA  
JOSE L. GOMEZ AR0015416  
8101 BISCAYNE BLVD., SUITE 309-310  
MIAMI, FL 33138-4064  
TEL. (305) 559-1250  
FAX. (305) 551-1740

STRUCTURAL ENGINEER: YOUSSEFF HACHEM  
CONSULTING ENGINEERING CA 26553  
12151 SW 128th Court Suite 104  
Miami FL 33186  
TEL. (305) 469-9423  
FAX. (305) 969-9453

MEP ENGINEER: ESI ENERGY SCIENCE INC. CONSULTING ENGINEERS  
C.A. #22795  
ESBER ANDIROGLU, P.E.  
MECH. / ELEC. - #42454  
2821 DOUGLASS ROAD  
MIAMI, FL 33133  
TEL. 305-448-8828 FAX. 305-448-7375

GENERAL NOTES:  
APPROVED LIFE SAFETY PLAN  
DEMOLITION FLOOR PLAN, ELEVATION, AND GENERAL NOTES  
DROP FLOOR PLAN, WALL TYPE  
DOOR SCHEDULE FOR ELEVATIONS, ROOM SCHEDULES, GENERAL  
STRUCTURAL  
S-1 GENERAL NOTES  
S-2 GENERAL NOTES  
S-3 GENERAL NOTES  
S-4 GENERAL NOTES  
S-5 GENERAL NOTES

PLUMBING  
P-1.0 PLUMBING GENERAL NOTES, LEGEND, AND DETAILS  
P-2.0 SANITARY SEWER FLOOR / DOMESTIC WATER AND FUEL / GAS FR. PLAN.  
P-3.0 SANITARY SEWER FLOOR / DOMESTIC WATER AND FUEL / GAS ISOMT.

MECHANICAL  
M-1 HVAC FLOOR PLAN  
M-2 HVAC GENERAL NOTES  
ELECTRICAL  
E-1 ELECTRICAL GENERAL NOTES  
E-2 ELECTRICAL GENERAL NOTES

FIRE PROTECTION  
FP-1 FIRE SPRINKLER GROUND LEVEL

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

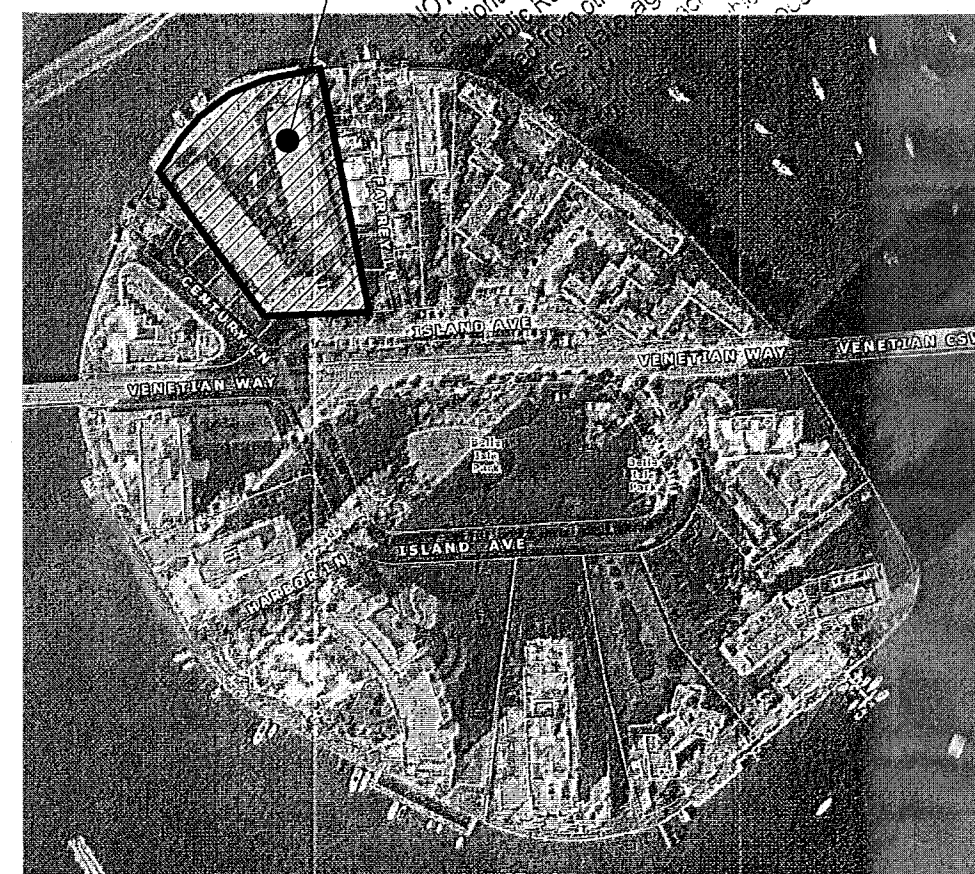
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ZONING: 10/25/13  
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ELECTRICAL: 10/25/13  
MECHANICAL: 10/25/13  
FIRE PREVENTION: 10/25/13  
FLOOD: 10/25/13  
PUBLIC WORKS: 10/25/13  
STRUCTURAL: 10/25/13  
ELEVATOR: 10/25/13

## GENERAL NOTES

1. ALL DIMENSIONS AND CONDITIONS ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
2. ALL WORK TO BE DONE IN COMPLIANCE WITH THE REQUIREMENTS OF AND ACCEPTABLE TO THE MIAMI BEACH BUILDING DEPARTMENT.
3. ALL MATERIALS SHALL CONFORM WITH ALL PREVAILING CODES. MANUFACTURERS SHALL PROVIDE DADE COUNTY APPROVAL CODES FOR ALL REQUIRED ASSEMBLIES.
4. CONTRACTOR SHALL GUARANTEE IN WRITING ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL AT HIS OWN COST REPAIR OR REPLACE ALL DAMAGED DURING REPAIR FOR THE PERIOD OF THE GUARANTEE.
5. COORDINATE ALL STRUCTURAL WORK WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DWGS. FOR VERIFICATION OF LOCATIONS AND DIMENSIONS OF ALL PROJECT REQUIREMENTS.
6. SUBMIT 3 SETS SHOP DWGS. FOR ARCHITECTS REVIEW OF ALL ITEM REQUIRING FABRICATION. DO NOT FABRICATE UNTIL REVIEWED.
7. ALL MATERIALS AND FIXTURES MUST BE BRAND NEW.
8. INFORMATION SHOWN ON THE DWGS. AS TO THE LOCATION OF THE EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE A/E. HOWEVER, THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER AND DEPTH OF EXISTING UTILITIES. THE CONTRACTOR SHALL ASSIST THE UTILITY COMPANIES, BY EVERY MEANS POSSIBLE, TO DETERMINE SAID LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS OR MODIFICATIONS TO THE SYSTEMS NOT SHOWN. EXTREME CAUTION SHALL BE EXERCISED BY THE CONTRACTOR TO ELIMINATE ANY POSSIBILITY OF ANY DAMAGE TO UTILITIES DURING CONSTRUCTION. THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED AND THE PROJECT REPRESENTATIVE NOTIFIED OF ANY CONFLICT OR DISCREPANCIES WHICH MAY OCCUR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING WHICH CONDITIONS WILL NEED SHORING DURING EXCAVATION AND SHALL PROVIDE SUCH SHORING AND SUPPORT AS REQUIRED.
9. CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO EXCAVATION.
10. ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.) OF 1929.
11. EXISTING PAVEMENT, SIDEWALKS, SOD, CURB OR OTHER EXISTING WORK NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY REMOVED, DAMAGED, EXPOSED, OR IN ANY WAY DISTURBED DURING CONSTRUCTION PERFORMED UNDER THIS CONTRACT SHALL BE REPAIRED TO ORIGINAL PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO OWNER.
12. ALL PAVING, SIDEWALK AND CURB & GUTTER WORK IN THE PUBLIC RIGHT OF WAY SHALL CONFORM WITH THE REQUIREMENTS OF THE CITY OF MIAMI, FLORIDA AND/OR THE FLORIDA DEPARTMENT OF TRANSPORTATION.
13. ALL UTILITY CONSTRUCTION AND CONNECTIONS WITHIN THE PUBLIC RIGHT OF WAY ARE TO BE PERFORMED BY THE CITY OF MIAMI BEACH WATER AND SEWER DEPARTMENT.
14. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
15. THIRD PARTY BENEFICIARIES: NOTHING CONTAINED IN THESE DRAWINGS SHALL CREATE A CONTRACTUAL RELATIONSHIP WITH OR A CAUSE OF ACTION IN FAVOR OF A THIRD PARTY AGAINST EITHER THE CLIENT OR THE DESIGN PROFESSIONAL. THE DESIGN PROFESSIONAL'S SERVICES UNDER WHICH THESE DRAWINGS WERE PREPARED, ARE BEING PERFORMED SOLELY FOR THE CLIENT'S BENEFIT, AND NO OTHER ENTITY SHALL HAVE ANY CLAIM AGAINST THE DESIGN PROFESSIONAL BECAUSE OF THESE DRAWINGS OR THE PERFORMANCE OR NONPERFORMANCE OF SERVICES HEREUNDER.
16. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER DRAWING SCALE.
17. CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR HAVING COMPLETE KNOWLEDGE OF ALL CONSTRUCTION DOCUMENTS AND THE RELEVANCE TO THE WORK FAILURE TO BE ACQUAINTED WITH THIS KNOWLEDGE DOES NOT RELIEVE RESPONSIBILITY FOR PERFORMING ALL WORK PROPERLY. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED DUE TO THE FAILURE TO BECOME FAMILIAR WITH THE ENTIRE CONSTRUCTION DOCUMENT PACKAGE.
18. FIRE SPRINKLER SYSTEM AND FIRE ALARM SYSTEM (IF REQUIRED) ARE DESIGN BUILD BY THE CONTRACTOR. CONTRACTOR SHALL SUBMIT FIRE SPRINKLER & FIRE ALARM SHOP DRAWINGS TO THE JURISDICTION (AND LANDLORD AS REQUIRED) AND OBTAIN APPROVAL PRIOR TO BEGINNING ANY WORK ON THE FIRE SPRINKLER OR ALARM SYSTEM. THE FIRE SPRINKLER AND ALARM WORK SHALL BE PERFORMED UNDER A SEPARATE PERMIT WHERE APPLICABLE.
19. COORDINATED ALL ROOF PENETRATIONS WITH TENANT AND THE LANDLORD. MAKE ALL ROOF PENETRATIONS IN ACCORDANCE WITH LANDLORD REQUIREMENTS TO MAINTAIN VALIDITY OF ALL ROOFING WARRANTIES.
20. CONTRACTOR SHALL INSPECT ALL EXISTING FIRE PROOFING OF STRUCTURAL ELEMENTS, DEMISING WALLS, AND FLOOR CEILING ASSEMBLIES WHICH ARE REQUIRED TO BE FIRE PROTECTED BY GOVERNING CODES. CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED FIREPROOFING. CONTRACTOR SHALL MAINTAIN THE EXISTING FIRE RATINGS OF ALL ELEMENTS AND SHALL PATCH AND REPAIR ANY DAMAGED OR REMOVED ELEMENTS AS REQUIRED TO MAINTAIN ALL FIRE RATINGS.
21. LANDLORD HAS FILED FOR AND OBTAINED APPROVAL OF THE BUILDING PERMIT. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING ANY OUTSTANDING BUILDING PERMIT ITEMS AND PICKING UP THE PERMIT.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FOR AND OBTAINING ALL TRADE PERMITS AND OTHER PERMITS AS MAY BE REQUIRED BY THE JURISDICTIONS HAVING AUTHORITY OVER THE PROJECT.
23. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING ANY REVISIONS TO THE APPROVED PERMIT DOCUMENTS AND PROCESSING THE APPROVAL OF THE REVISED DOCUMENTS WITH THE JURISDICTIONS HAVING AUTHORITY.
24. CONTRACTOR SHALL VERIFY THAT ALL EXISTING DEMISING WALL EXTEND TO THE BOTTOM OF THE FLOOR OF THE LANDLORD'S RESPONSIBILITY.
25. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING SUBSTRATES TO RECEIVE NEW FINISHES AND ALL EXISTING SURFACES AND FINISHES AS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION.

## CLARIFICATION:

THIS PERMIT IS ONLY FOR THE RELOCATION OF EXISTING TRASH AND INCORPORATION OF A LAUNDRY ROOM AND A GREASE TRAP.



LOCATION MAP  
SCALE: N.T.S.

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THE STANDARD HOTEL SPA  
40 ISLAND AVENUE  
MIAMI BEACH, FL 33139

1 09-30-13 CITY COMMENT  
DATE REVISION

DWG. TITLE  
COVER PAGE & GENERAL NOTES

SCALE  
N.T.S.

PROJECT NO.

DATE 2013-20

08-19-13

SHEET NUMBER

A-001



## ABBREVIATIONS

## MATERIAL LEGEND




## PROJECT TEAM

## DRAWING INDEX

A	ACOUS.	ACOUSTICAL	GA.	GAUGE	R	R.	RISER
A.C.	AIR CONDITIONING	AIR CONDITIONING	GALV.	GALVANIZED	RAD.	RADIUS	ROOF DRAIN
ADJ.	ADJUSTABLE	ADJUSTABLE	G.B.	GENERAL CONTRACTOR	REF.	REFLECTED	REFRIGERATOR
AGGR.	AGGREGATE	AGGREGATE	G.C.	GLASS	REFL.	REFLECTED	REGISTER
AL.	ALUMINUM	ALUMINUM	GND.	GROUND	RGTR.	REGISTER	REINFORCED
APPROX.	APPROXIMATE	APPROXIMATE	GR.	GRADE	REINF.	REINFORCED	REINFORCED
ARCH.	ARCHITECTURAL	ARCHITECTURAL	GYP.	GYP.	REQ.	REQUIRED	REINFORCED
ASB.	ASBESTOS	ASBESTOS	G.W.B.	GYP.	RESIL.	RESILIENT	REINFORCED
ASPH.	ASPHALT	ASPHALT			RM.	ROUGH OPENING	REDWOOD

B	BD.	BOARD	H.B.	HOSE BIB	S	S.	SOUTH
BITUM.	BITUMINOUS	BITUMINOUS	H.C.	HOLLOW CORE	SABF	SOUND ATTENUATION FIRE	BLANKETS
BLDG.	BUILDING	BUILDING	H.D.	HARD WOOD	S.C.	SOLID CORE	SEAT COVER DISPENSER
BLK.	BLOCK	BLOCK	H.D.W.	HARDWARE	S.C.D.	SCHEDULE	SCHEDULE
BLKG.	BLOCKING	BLOCKING	H.M.	HOLLOW METAL	S.D.	SOAP DISPENSER	SECTION
BLKHD.	BULKHEAD	BULKHEAD	H.H.	HORIZONTAL	S.E.	SECT.	SH.
BM.	BEAM	BEAM	H.H.	HORIZONTAL	S.H.	SHOWER	SHEET
BOT.	BOTTOM	BOTTOM	H.H.	HORIZONTAL	S.H.	SHOWER	SHEET

C	CAB.	CABINET	I.D.	INSIDE DIAMETER (DIM.)	S	S.	SOUTH
CARP.	CARPET	CARPET	IN.	INCH	SABF	SOUND ATTENUATION FIRE	BLANKETS
C.B.	CATCH BASIN	CATCH BASIN	INSUL.	INSULATION	S.C.	SOLID CORE	SEAT COVER DISPENSER
CEM.	CEMENT	CEMENT	INT.	INTERIOR	S.C.D.	SCHEDULE	SCHEDULE
CER.	CERAMIC	CERAMIC	INV.	INVERT	S.D.	SOAP DISPENSER	SECTION
C.I.	CAST IRON	CAST IRON			S.E.	SECT.	SH.
C.G.	CORNER GUARD	CORNER GUARD			S.H.	SHOWER	SHEET
CLG.	CEILING	CEILING			S.H.	SHOWER	SHEET
CLKG.	CAULKING	CAULKING			S.H.	SHOWER	SHEET
CLO.	CLOSET	CLOSET			S.H.	SHOWER	SHEET
CLR.	CLEAR	CLEAR			S.H.	SHOWER	SHEET
C.M.U.	CONCRETE MASONRY UNIT	CONCRETE MASONRY UNIT			S.H.	SHOWER	SHEET
C.O.	CASED OPENING	CASED OPENING			S.H.	SHOWER	SHEET
COL.	COLUMN	COLUMN			S.H.	SHOWER	SHEET
CONC.	CONCRETE	CONCRETE			S.H.	SHOWER	SHEET
CONN.	CONNECTION	CONNECTION			S.H.	SHOWER	SHEET
CONSTR.	CONSTRUCTION	CONSTRUCTION			S.H.	SHOWER	SHEET
CONT.	CONTINUOUS	CONTINUOUS			S.H.	SHOWER	SHEET
CORR.	CORRIDOR	CORRIDOR			S.H.	SHOWER	SHEET
CTSK.	COUNTERSUNK	COUNTERSUNK			S.H.	SHOWER	SHEET
CNTR.	COUNTER	COUNTER			S.H.	SHOWER	SHEET
C.T.	CERAMIC TILE	CERAMIC TILE			S.H.	SHOWER	SHEET
CTR.	CENTER	CENTER			S.H.	SHOWER	SHEET

EMER.	EMERGENCY		O.A.	OVERALL		V.I.F.	VERIFY IN FIELD
ENCL.	ENCLOSURE		OBS.	OBSCURE		VERT.	VERTICAL
E.P.	ELECTRICAL PANEL BOARD		O.C.	ON CENTER		V.T.	VINYL TILE
EQ.	EQUAL		O.D.	OUTSIDE DIMENSION		VEST.	VESTIBULE
EQPT.	EQUIPMENT		OFF.	OFFICE		V.B.	VAPOR BARRIER
E.S.	EMERGENCY OVERFLOW SCUPPER		OPNG.	OPENING			
E.W.C.	ELECTRIC WATER COOLER		OP. HD.	OPPOSITE HAND			
EXST.	EXISTING		OPP.	OPPOSITE		W.	WEST
EXP0.	EXPOSED					WT.	WEIGHT
EXP.	EXPANSION					W/	WITH
EXT.	EXTERIOR					W/C	WATER CLOSET

E	E.A.	EAST	N.	NORTH	UNF.	UNFINISHED
E.A.	EACH	EACH	N.I.C.	NOT IN CONTRACT	U.O.N.	UNLESS OTHERWISE NOTED
EL.	EXPANSION JOINT	EXPANSION JOINT	N.O. OR #	NUMBER	UR.	URINAL
ELEC.	ELEVATION	ELEVATION	NOM.	NOMINAL		UNDERWRITERS LAB
ELEV.	ELECTRICAL	ELECTRICAL	N.T.S.	NOT TO SCALE		
EMER.	ELEVATOR	ELEVATOR				
ENCL.	EMERGENCY	EMERGENCY				
E.P.	ENCLOSURE	ENCLOSURE				
E.Q.	ELECTRICAL PANEL BOARD	ELECTRICAL PANEL BOARD				
E.OPT.	EQUAL	EQUAL				
E.S.	EQUIPMENT	EQUIPMENT				
	EMERGENCY OVERFLOW	EMERGENCY OVERFLOW				
	SCUPPER	SCUPPER				
	ELECTRIC WATER COOLER	ELECTRIC WATER COOLER				
	EXISTING	EXISTING				
	EXP.	EXP.				
	EXP.	EXP.				
	EXT.	EXT.				

F	F.A.	FIRE ALARM	PRCST.	PRE-CAST	W.	WEST
F.B.	FLAT BAR	FLAT BAR	P.L.	PROPERTY LINE	WT.	WEIGHT
F.D.	FLOOR DRAIN	FLOOR DRAIN	P.T.	PRESSURE TREATED	W.	WITH
FDN.	FOUNDATION	FOUNDATION	PL.	PLATE	W.C.	WATER CLOSET
F.E.	FIRE EXTINGUISHER	FIRE EXTINGUISHER	PLAM.	PLASTIC LAMINATE	WD.	WOOD
F.E.C.	FIRE EXTINGUISHER CAB.	FIRE EXTINGUISHER CAB.	PLAS.	PLASTER	W/O	WITHOUT
F.H.C.	FIRE HOSE CABINET	FIRE HOSE CABINET	PLYWD.	PLYWOOD	WP.	WATERPROOF
FIN.	FINISH	FINISH	POL.	POLISHED	WSC.	WAINSCOT
FL.	FLOOR	FLOOR	PR.	PAIR		
FLASH.	FLASHING	FLASHING	PT.	POINT		
FLUOR.	FLUORESCENT	FLUORESCENT	P.T.D.	PAPER TOWEL		
F.O.C.	FACE OF CONCRETE	FACE OF CONCRETE		DISPENSER		
F.O.F.	FACE OF FINISH	FACE OF FINISH				
F.O.S.	FACE OF STUDS	FACE OF STUDS				
FRF.	FIREPROOF	FIREPROOF				
F.S.	FULL SIZE	FULL SIZE				
FT.	FOOT OR FEET	FOOT OR FEET				
FTG.	FOOTING	FOOTING				
FUR.	FURRING	FURRING				
FUT.	FUTURE	FUTURE				
F.V.	FIELD VERIFY	FIELD VERIFY				
F.V.C.	FIRE VALVE CABINET	FIRE VALVE CABINET				

Insulation blanket	concrete pre cast	gravel or crushed stone	concrete
glass: large scale	Insulation rigid	earth	tile
marble	steel small scale	steel large scale	plywood
wood blocking continuous	wood blocking intermittent	brick large scale	wood finished
			concrete mas. unit

OWNER:	THE STANDARD SPA, MIAMI BEACH 40 ISLAND AVENUE MIAMI BEACH, FL 33139 Phone: 305-673-1717
DESIGN/PROJECT ARCHITECT:	BEILINSON GOMEZ ARCHITECTS PA JOSE L. GOMEZ ARO015416 8101 BISCAVAYNE BLVD., SUITE 309-310 MIAMI, FL 33138-4664 TEL. (305) 559-1250 FAX. (305) 551-1740
STRUCTURAL ENGINEER:	YOUSSEF HACHEM CONSULTING ENGINEERING CA 26555 12151 SW 128th Court Suite 104 Miami FL 33196 TEL. (305) 969-9423 FAX. (305) 969-9453
MEP ENGINEER:	ESI ENERGY SCIENCE INC. CONSULTING ENGINEERS C.A. #27265 ESBER ANDROGLU, P.E. MECH./ELEC. - #42464 2821 DOUGLASS ROAD MIAMI, FL 33133 TEL. 305-445-8928 FAX. 305-448-7375

## SYMBOL LEGEND

DOOR SYMBOL	DOOR number	wall construction	wall type
room name / finish schedule	room number	exterior & interior elevation symbol	detail number
bdg. / partial & detail section symbol	detail number	construction detail symbol/ detailed area	detail number
notes	legend letter/ number	COLUMN REFERENCE	NUMBER OR LETTER
notes	legend letter/ number	ELEVATION	EL. 0'-0" FINISH FLOOR
		DRAWING REVISION	REVISION NUMBER

## PROJECT INFORMATION

## SCOPE OF WORK

THIS PERMIT IS FOR RELOCATION OF EXISTING TRASH ROOM AND THE INCORPORATION OF A LAUNDRY ROOM AT THE GROUND LEVEL.

## LEGAL DESCRIPTION

33 53 42 BELLE ISLE PB 5-11 LOTS 39-40-41 & 42 AND PROP. INT. IN & TO COMMON ELEMNTS NOT DEDICATED TO PUBLIC. LOT SIZE 101500 SQUARE FEET COGO 29335-4228 04 2006 1

## ZONING SUMMARY

PROJECT ADDRESS:	40 ISLAND AVENUE MIAMI BEACH, FL 33139
ZONING DISTRICT:	RM-1
PRESENT / PROPOSED OCCUPANCY:	TRANSIENT RESIDENTIAL

## ALTERATION CLASSIFICATION

ALTERATION LEVEL 2	
	AUTOMATIC SPRINKLER SYSTEM
	FIRE ALARM SYSTEM
	THIS BUILDING IS PROTECTED WITH A FIRE SPRINKLER SYSTEM. RELOCATION OF EXISTING FIRE SPRINKLER HEAD WILL BE REQUIRED IN BOTH THE NEW TRASH ROOM AND THE NEW LAUNDRY ROOM
	THIS BUILDING IS PROTECTED BY A FIRE ALARM SYSTEM.

DERM  
PLAN REVIEW  
FINAL  
APPROVAL

DATE RECEIVED: 10/08/2013  
CITY OF MIAMI BEACH  
REFERENCE  
ONLY



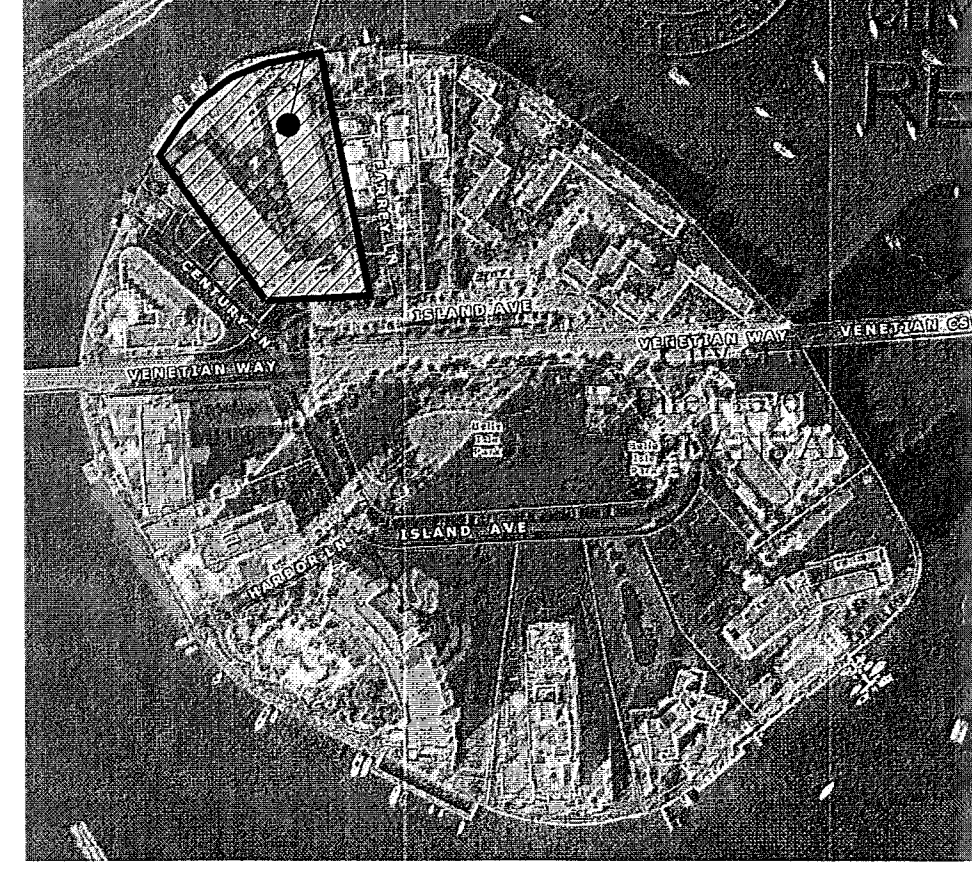
Derm Number: 2013-1008-1440-0422  
Contact Name: CEETA POLIAH  
Contact Phone: (786) 897-5342  
Folio: 02-3233-004-0090  
Project Name: STANDARD HOTEL / LAUNDRY ROOM  
Date Received: 10/08/2013

## APPLICABLE CODES

GOVERNING ZONING CODE:	MIAMI BEACH, FLORIDA CODE OF ORDINANCE
BUILDING CODE:	FLORIDA BUILDING CODE 2010
EXISTING BUILDING:	FLORIDA BUILDING CODE: EXISTING BUILDING CODE 2010
STRUCTURAL:	FLORIDA BUILDING CODE 2010
PLUMBING:	FLORIDA BUILDING CODE 2010 - PLUMBING
MECHANICAL:	FLORIDA BUILDING CODE 2010 - MECHANICAL
ELECTRICAL:	FLORIDA BUILDING CODE - 2010 EDITION
ACCESSIBILITY:	FLORIDA BUILDING CODE 2010 - CHAPTER 11 FACBC
FIRE PROTECTION:	FLORIDA FIRE PREVENTION CODE - 2010 EDITION

## GENERAL NOTES

- ALL DIMENSIONS AND CONDITIONS ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BID.
- ALL WORK TO BE DONE IN COMPLIANCE WITH THE REQUIREMENTS OF AND ACCEPTABLE TO THE MIAMI BEACH BUILDING DEPARTMENT.
- ALL MATERIALS SHALL CONFORM WITH ALL PREVAILING CODES. MANUFACTURERS SHALL PROVIDE DADE COUNTY APPROVAL CODES FOR ALL REQUIRED ASSEMBLIES.
- CONTRACTOR SHALL GUARANTEE IN WRITING ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL AT HIS OWN COST REPAIR OR REPLACE ALL DAMAGED DURING REPAIR FOR THE PERIOD OF THE GUARANTEE.
- COORDINATE ALL STRUCTURAL WORK WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DWGS. FOR VERIFICATION OF LOCATIONS AND DIMENSIONS OF ALL PROJECT REQUIREMENTS.
- SUBMIT 3 SETS SHOP DWGS. FOR ARCHITECT'S REVIEW OF ALL ITEM REQUIRING FABRICATION. DO NOT FABRICATE UNTIL REVIEWED.
- ALL MATERIALS AND FIXTURES MUST BE BRAND NEW.
- INFORMATION SHOWN ON THE DWGS. AS TO THE LOCATION OF THE EXISTING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE A/E. HOWEVER, THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER AND DEPTH OF EXISTING UTILITIES. THE CONTRACTOR SHALL ASSIST THE UTILITY COMPANIES, BY EVERY MEANS POSSIBLE, TO DETERMINE SAID LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS OR MODIFICATIONS TO THE SYSTEMS NOT SHOWN. EXTREME CAUTION SHALL BE EXERCISED BY THE CONTRACTOR TO ELIMINATE ANY POSSIBILITY OF ANY DAMAGE TO UTILITIES DURING CONSTRUCTION. THE LOCATION OF ALL UTILITIES SHALL BE VERIFIED AND THE PROJECT REPRESENTATIVE NOTIFIED OF ANY CONFLICT OR DISCREPANCIES WHICH MAY OCCUR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING WHICH CONDITIONS WILL NEED SHORING DURING EXCAVATION AND SHALL PROVIDE SUCH SHORING AND SUPPORT AS REQUIRED.
- CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO EXCAVATION.
- ALL ELEVATIONS REFER TO THE NATIONAL GEODETIC VERTICAL DATUM (N.G.V.D.) OF 1929.
- EXISTING PAVEMENT, SIDEWALKS, SOD, CURB OR OTHER EXISTING WORK NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY REMOVED, DAMAGED, EXPOSED, OR IN ANY WAY DISTURBED DURING CONSTRUCTION PERFORMED UNDER THIS CONTRACT SHALL BE REPAIRED TO ORIGINAL PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO OWNER.
- ALL PAVING, SIDEWALK AND CURB & GUTTER WORK IN THE PUBLIC RIGHT OF WAY SHALL CONFORM WITH THE REQUIREMENTS OF THE CITY OF MIAMI, FLORIDA AND/OR THE FLORIDA DEPARTMENT OF TRANSPORTATION.
- ALL UTILITY CONSTRUCTION AND CONNECTIONS WITHIN THE PUBLIC RIGHT OF WAY ARE TO BE PERFORMED BY THE CITY OF MIAMI BEACH WATER AND SEWER DEPARTMENT.
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- CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING ANY REVISIONS TO THE APPROVED PERMIT DOCUMENTS AND PROCESSING THE APPROVAL OF THE REVISED DOCUMENTS WITH THE JURISDICTIONS HAVING AUTHORITY.
- CONTRACTOR SHALL VERIFY THAT ALL EXISTING DEMISING WALL EXTEND TO THE BOTTOM OF THE FLOOR OF THE LANDLORD'S RESPONSIBILITY.
- CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING SUBSTRATES TO RECEIVE NEW FINISHES AND ALL EXISTING SURFACES AND FINISHES AS NECESSARY FOR A COMPLETE AND PROPER INSTALLATION.



LOCATION MAP  
SCALE: N.T.S.

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ARCHITECTURE AAO01082  
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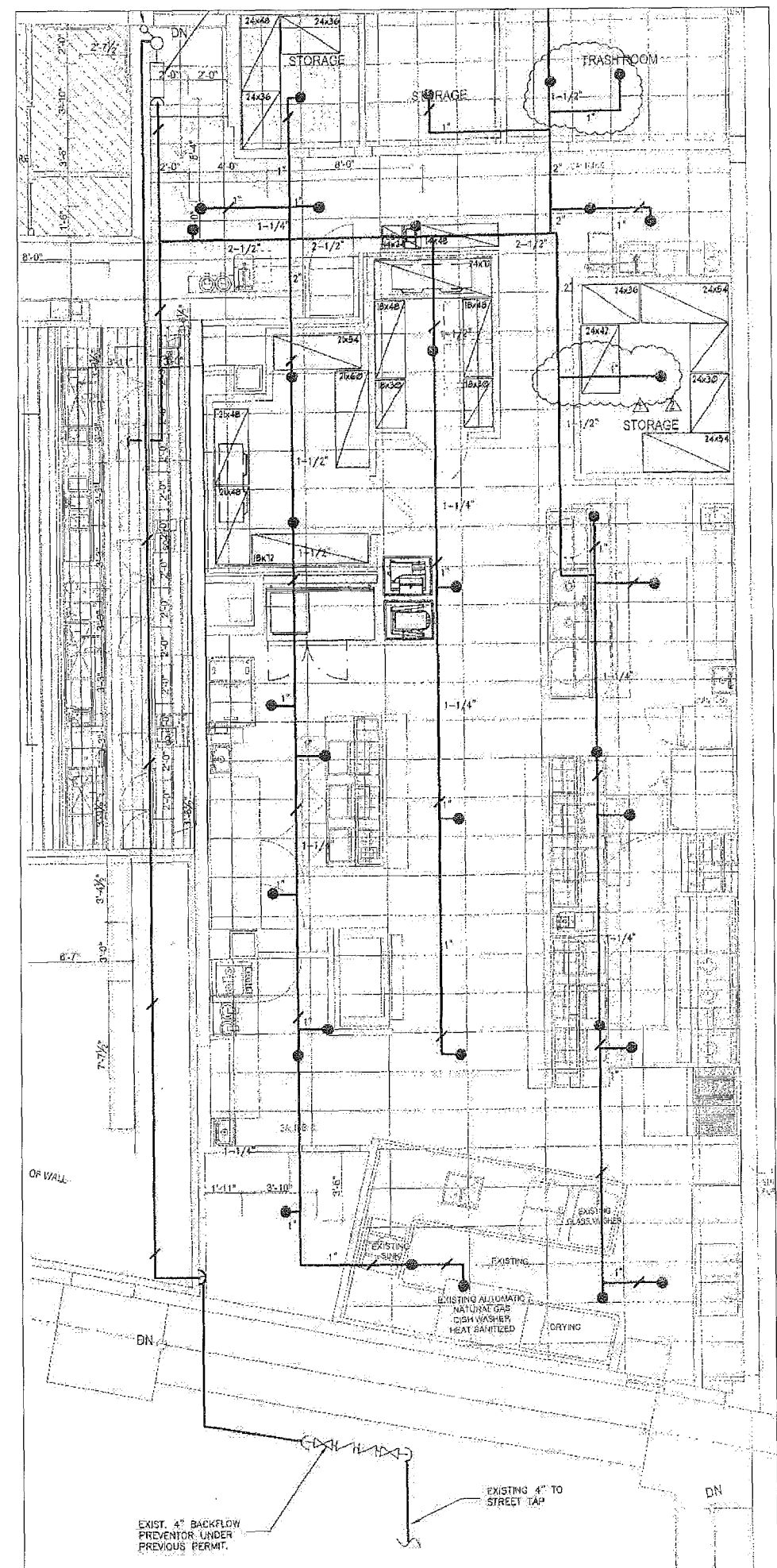
THE STANDARD HOTEL SPA  
40 ISLAND AVENUE  
MIAMI BEACH, FL 33139

DATE	REVISION
DWG. TITLE	
SCALE	N.T.S.
PROJECT NO.	2013-20
DATE	08-19-13
SHEET NUMBER	A-001

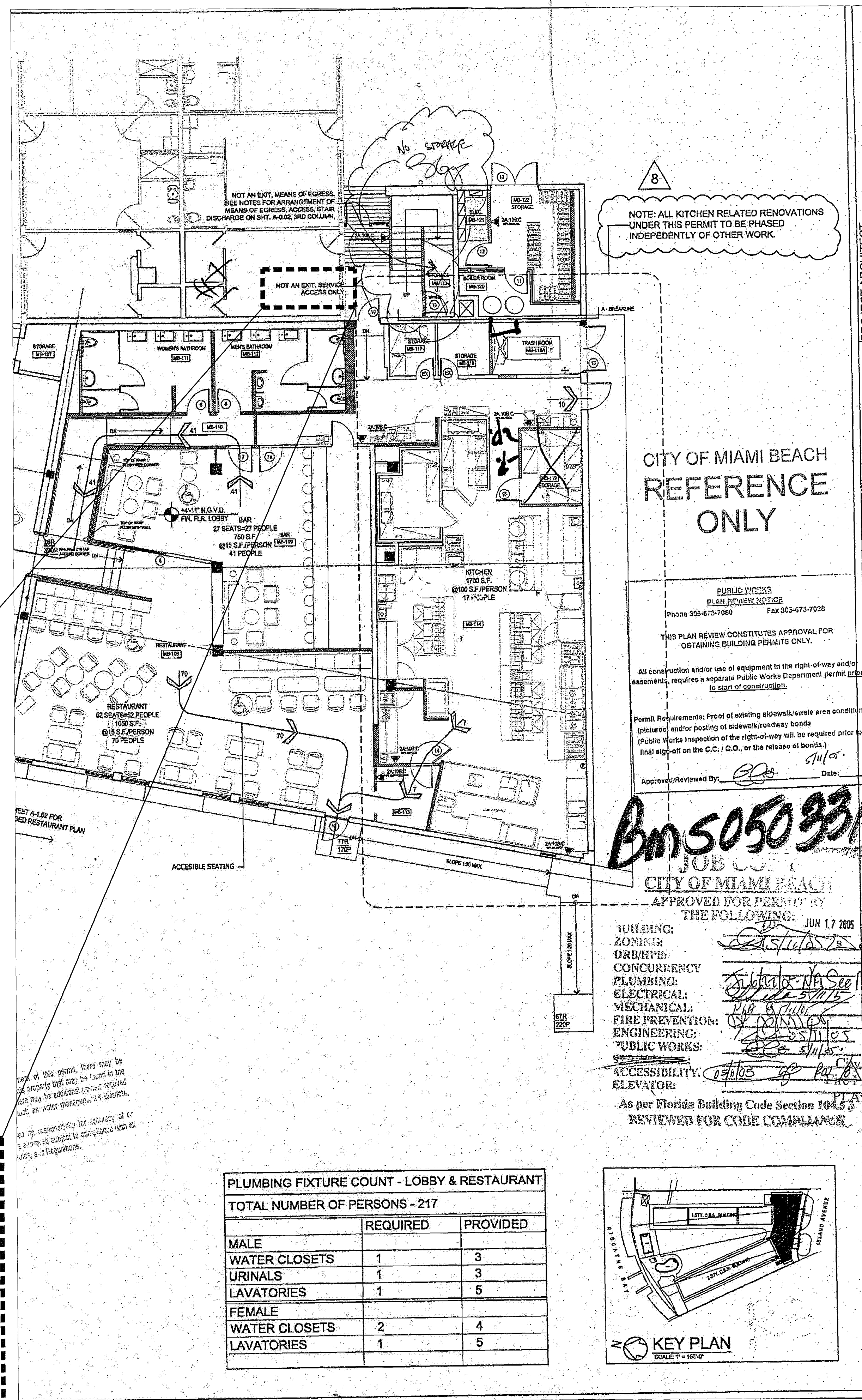
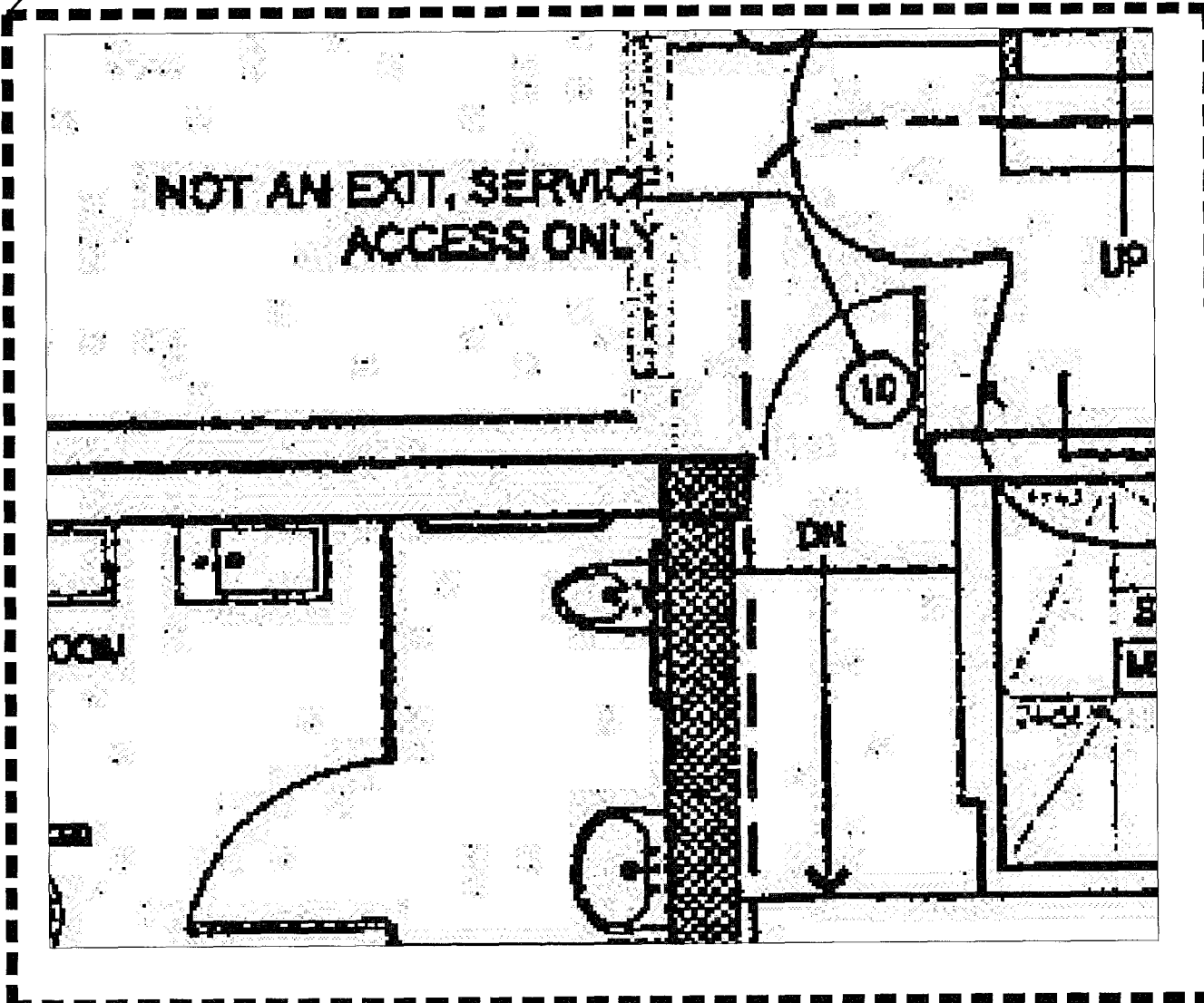








EXISTING APPROVED KITCHEN FIRE SPRINKLER SYSTEM  
SCALE: N.T.S.



EXISTING APPROVED LIFE SAFETY PLAN  
SCALE: N.T.S.

CITY OF MIAMI BEACH  
REFERENCE ONLY

PROJECT ARCHITECT  
**ALISON SPEAR, A.I.A.**  
3815 NE MIAMI COURT, MIAMI, FL 33137  
305-438-1200 fax 305-438-1221

SEAL  
ALISON SPEAR, AIA  
ARCH. 0016880

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PROJECT TITLE  
**LIDO SPA HOTEL**  
MAIN BUILDING - RENOVATION  
40 ISLAND AVENUE, MIAMI BEACH, FL 33139

DRAWING TITLE  
**GROUND FLOOR PLAN**  
APPROVED

DRAWN BY B.F.L.  
CHECKED BY A.S.  
ISSUES

09-25-03 PERMIT ISSUE  
12-17-03 BLDG DEPT. COMMENTS  
02-24-04 BLDG DEPT. COMMENTS  
05-25-04 REVISED SCOPE  
06-26-04 REVISION  
11-04-04 REVISION

SHEET NO.  
**A-1.00**

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THE STANDARD HOTEL SPA  
40 ISLAND AVENUE  
MIAMI BEACH, FL 33139

1 09-30-13 NEW SHEET  
DATE REVISION  
DWG. TITLE  
DEMOLITION PLAN  
DEMOLITION GENERAL NOTES  
SCALE  
PROJECT NO.  
DATE  
SHEET NUMBER  
**EXIST-101**











S.W.C. = SOLID WOOD CORE  
A.P.M. = AS PER MANUFACTURE  
H.M.D. = HOLLOW METAL DOOR



**B4** TOP JAMB DETAIL EXTERIOR DOOR SCALE: N.T.S.      **B5** SIDE JAMB DETAIL EXTERIOR DOOR SCALE: N.T.S.      **B6** THRESHOLD DETAIL EXTERIOR DOOR SCALE: N.T.S.

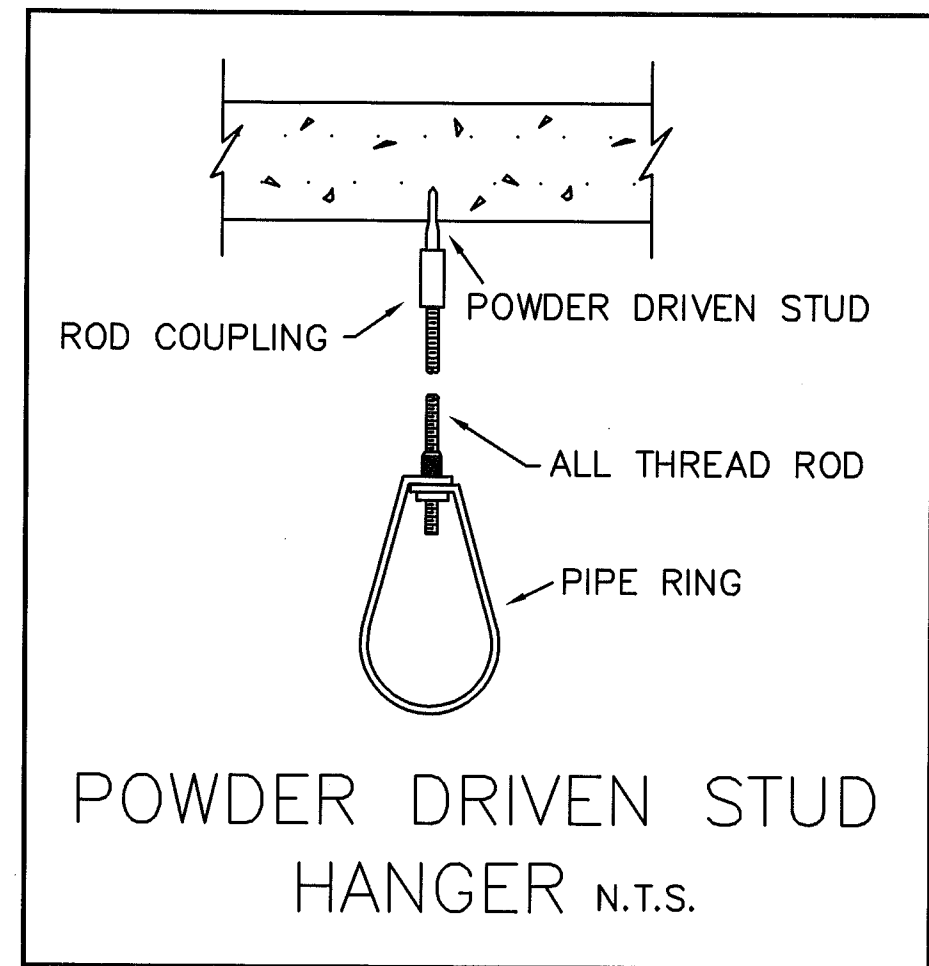
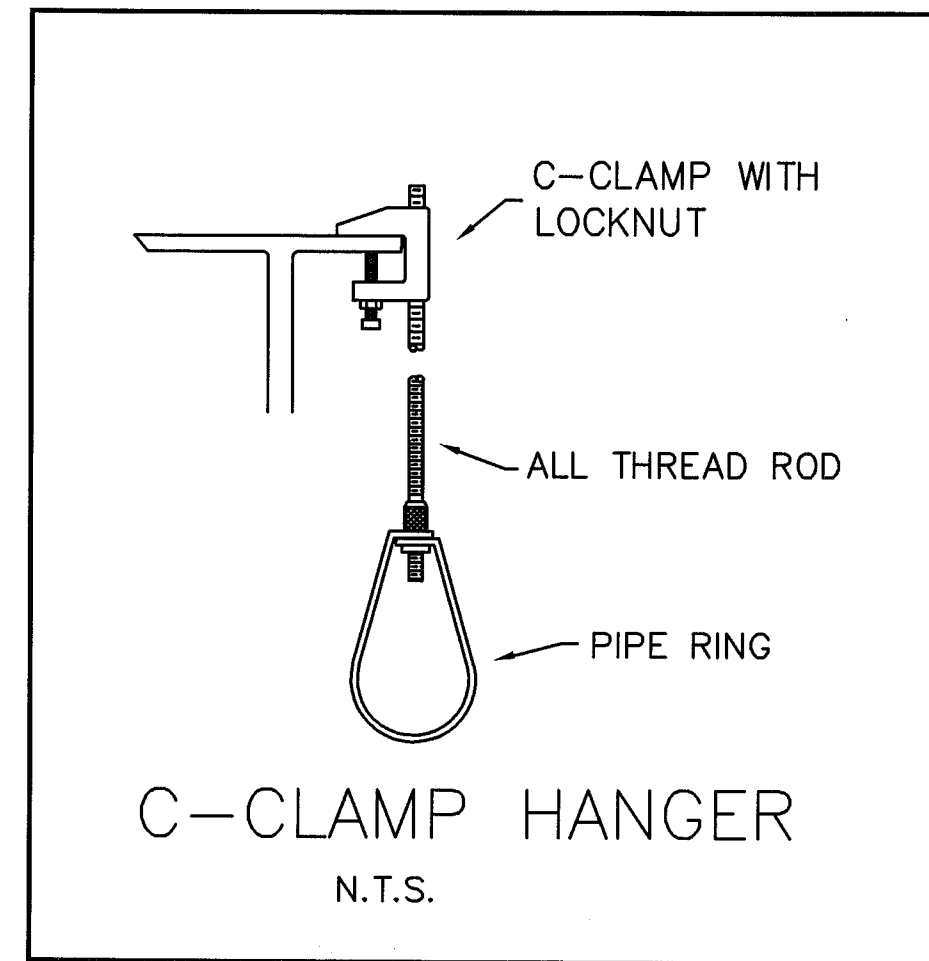


**A4** TOP JAMB DETAIL INTERIOR DOOR SCALE: N.T.S. **A5** THRESHOLD DETAIL INTERIOR DOOR SCALE: N.T.S. **A6** DOOR GENERAL DETAILS SCALE: N.T.S.

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1	09-30-13	CITY COMMENT
△	DATE	REVISION
DWG. TITLE		
DOOR SCHEDULE DOOR DETAILS GENERAL DETAILS		
SCALE		
AS SHOWN		
PROJECT NO.		
2013-20		
DATE		
08-19-13		
SHEET NUMBER		
A-201		





#### FIRE SPRINKLER NOTES:

ALL FIRE SPRINKLER PIPING AND SPRINKLER HEAD DISTRIBUTION TO BE AS PER THE REQUIREMENTS OF THE NATIONAL FIRE CODE CHAPTER 13, THE STATE FIRE MARSHALL, AND THE AUTHORITIES HAVING LOCAL JURISDICTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN THE SYSTEM HYDRAULICALLY, AND SUBMIT HYDRAULIC CLACS. FOR REVIEW & APPROVAL IN COMPLIANCE WITH ALL GOVERNING AGENCY CRITERIA, AND TO VERIFY THE PROPER WATER PRESSURES AND QUANTITIES TO INSURE THE PROPER OPERATION OF THE SYSTEM. THE SPRINKLER HEADS SHALL BE PENDANT TYPE, UPRIGHT HEADS (OR SIDE WALL HEADS ONLY WHERE IMPRACTICAL TO USE UPRIGHT), CHROME PLATED IN ALL FINISHED AREAS, AND BRASS PLATED IN UNFINISHED AREAS. ALL PIPING TO BE CONCEALED IN ALL FINISHED AREAS. ECUTCHEON PLATES ARE TO BE CHROME PLATED, AND BE FURNISHED AS TWO PIECE IN ALL LAY-IN CEILINGS TO FACILITATE REMOVAL OF CEILING TILES AFTER THE INSTALLATION.

#### Legend

--- EXISTING SPRINKLER PIPING  
— NEW SPRINKLER BRANCH PIPING  
||| CONNECT NEW TO EXISTING AT THIS POINT

NOTE: ALL ITEMS AND SYSTEMS ARE EXISTING EXCEPT WHERE SPECIFICALLY OTHERWISE INDICATED OR ASSOCIATED WITH THE FOLLOWING NOMENCLATURE:

E DENOTES EXISTING TO REMAIN  
R DENOTES EXISTING TO BE RELOCATED  
N DENOTES NEW

NOTE: ALL SPRINKLER WORK TO BE CARRIED OUT BY LANDLORD'S SPRINKLER CONTRACTOR FOR THE SHELL BUILDING CONSTRUCTION.

#### SPLINKER HEAD LEGEND

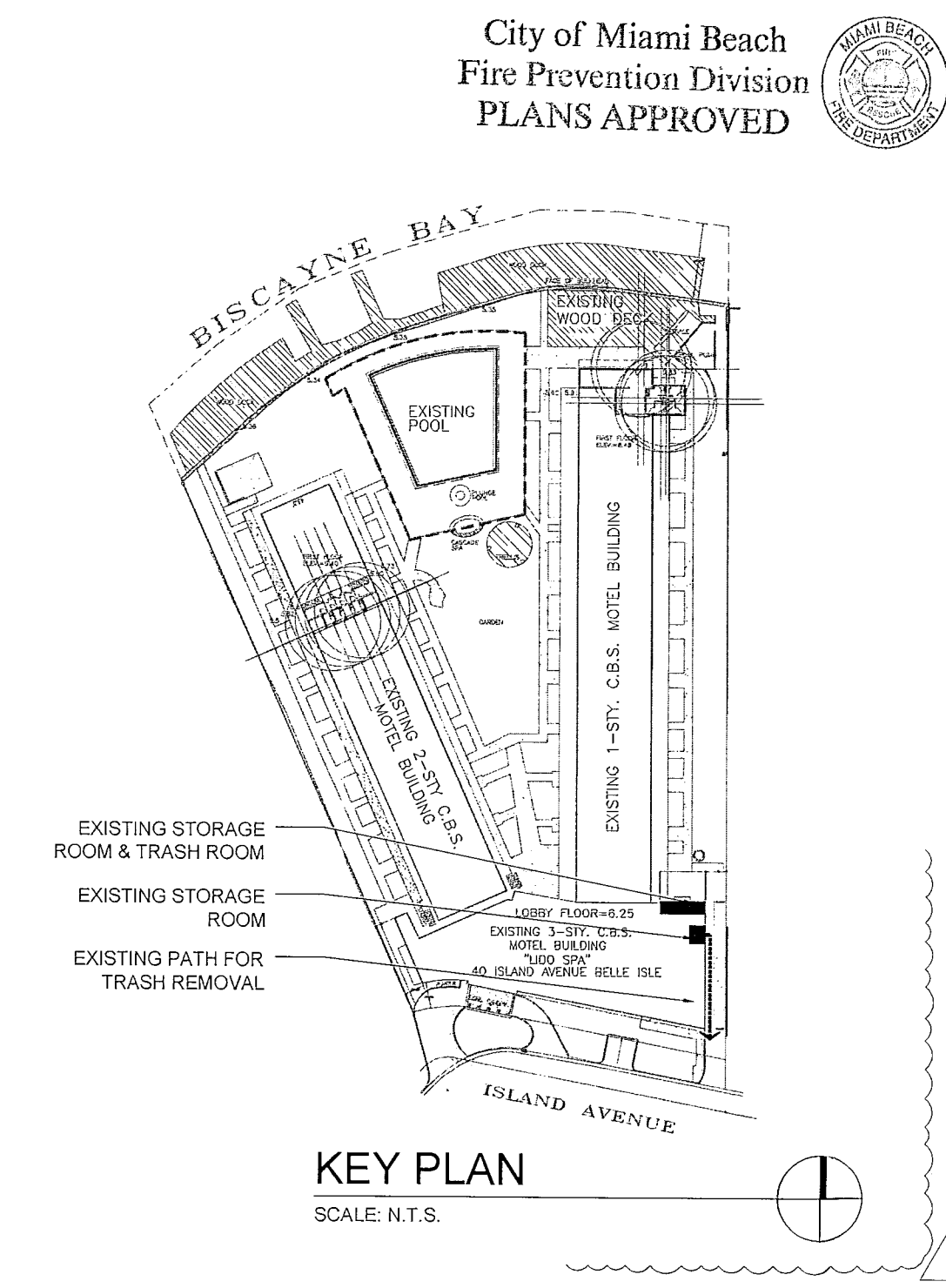
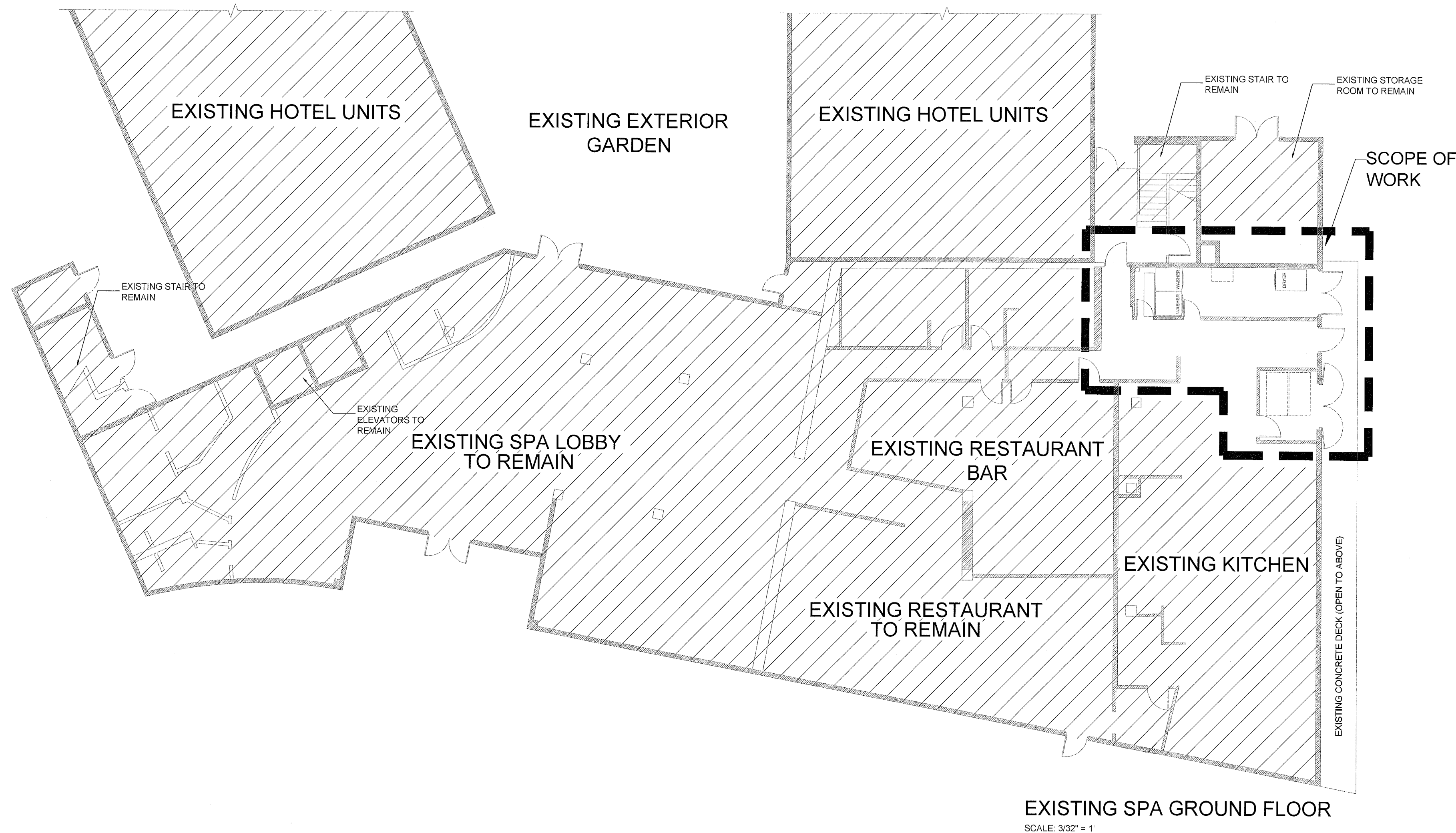
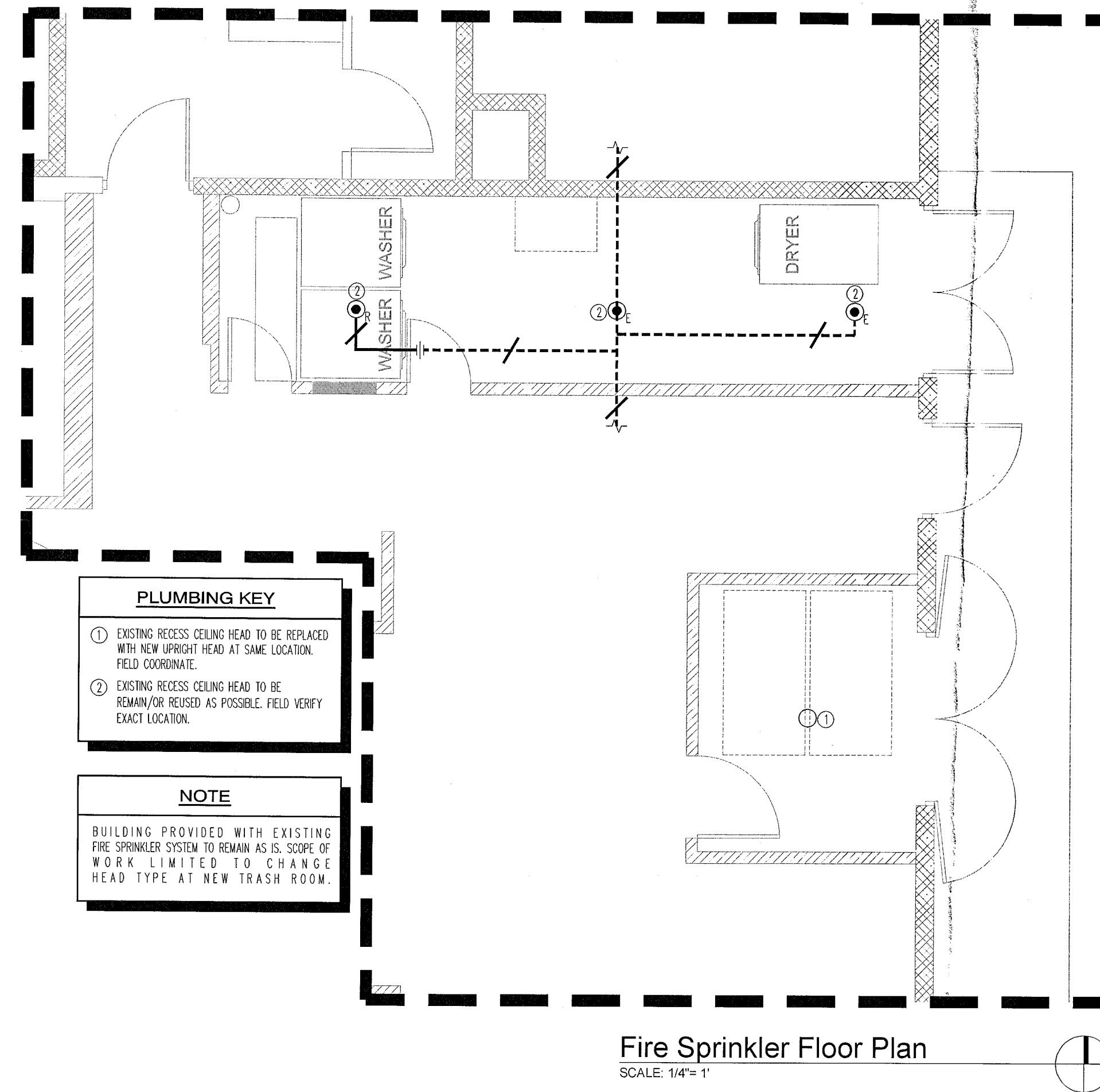
SYMBOL	TYPE OF SPRINKLER	MODEL	MANUF.	ORF.	TEMP.
○	UPRIGHT HEAD	TY-3551	TYCO	1/2"	155°
●	CHROME RECESSED PENDANT*	TY-3551	TYCO	1/2"	155°

#### PLUMBING KEY

- EXISTING RECESS CEILING HEAD TO BE REPLACED WITH NEW UPRIGHT HEAD AT SAME LOCATION. FIELD COORDINATE.
- EXISTING RECESS CEILING HEAD TO BE REMAIN/FOR RECESS AS POSSIBLE. FIELD VERIFY EXACT LOCATION.

#### NOTE

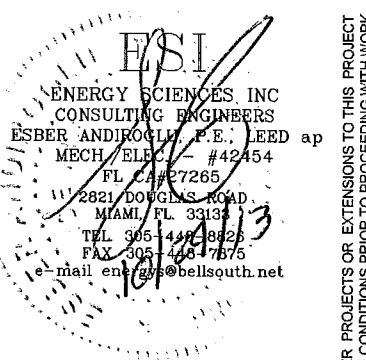
BUILDING PROVIDED WITH EXISTING FIRE SPRINKLER SYSTEM TO REMAIN AS IS. SCOPE OF WORK LIMITED TO CHANGE HEAD TYPE AT NEW TRASH ROOM.



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10.22.13  
DATE  
REVISION

THE STANDARD HOTEL SPA  
40 ISLAND AVENUE  
MIAMI BEACH, FL 33139

City of Miami Beach  
Fire Prevention Division  
PLANS APPROVED

1	10.22.13	NEW SHEET
△	DATE	REVISION
DWG. TITLE	FIRE SPRINKLER FLOOR PLAN	
SCALE	AS SHOWN	
PROJECT NO.	2013-20	
DATE	08-19-13	
SHEET NUMBER	FP-1.0	



SUMMARY OF WORK

INSTALL A TEMPORARY DUST/ WEATHER BARRIER WALL INSIDE THE BUILDING AS DIRECTED BY ENGINEER.

REPAIR ALL CRACKED AND SPALLED CONCRETE AT THE TOP, BOTTOM AND EDGE SURFACES OF THE WINDOWS INCLUDED IN THE WORK AS DIRECTED BY THE ENGINEER

REPAIR ALL CRACKED AND SPALLED CONCRETE AT THE BUILDING COLUMNS AND WALLS INCLUDED IN THE WORK AS DIRECTED BY THE ENGINEER

INSTALL SHORING AS DIRECTED BY THE ENGINEER OR AS OTHERWISE NEEDED TO PERFORM THE WORK. PROVIDE SIGNED AND SEALED SHORING PLANS PREPARED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

CONCRETE FORMWORK REFERENCES

- ACI 301 - Structural Concrete for Buildings.
- ACI 318 - Building Code Requirements for Reinforced Concrete.
- ACI 347 - Recommended Practice For Concrete Formwork.
- Florida Building Code.

DESIGN REQUIREMENTS

Design, engineer and construct formwork, shoring and bracing to conform to design and code requirements; resultant concrete to conform to required shape, line and dimension.

QUALITY ASSURANCE

- Perform Work in accordance with ACI 347, 301 and 318, and Florida Building Code standards. Maintain one copy of each document on site.
- Design formwork under direct supervision of a Professional Engineer experienced in design of this work and licensed in the State of Florida.

WOOD FORM MATERIALS

Form Materials: Site fabricated plywood with wood reinforcement.

FORMWORK ACCESSORIES

Form Release Agent: Colorless mineral oil which will not stain concrete, or absorb moisture, or impair natural bonding or color characteristics of coating intended for use on concrete.

Nails, Spikes, Lag Bolts, Through Bolts, Anchorages: Sized as required, of sufficient strength and character to maintain formwork in place while placing concrete.

Erect formwork, shoring and bracing to achieve design requirements, in accordance with requirements of ACI 301.

Provide bracing to ensure stability of formwork. Shore or strengthen formwork subject to over stressing by construction loads.

Arrange and assemble formwork to permit dismantling and stripping. Do not damage concrete during stripping. Permit removal of remaining principal shores.

CONCRETE REINFORCEMENT REFERENCES

- ACI 301 - Structural Concrete for Buildings.
- ACI 318 - Building Code Requirements For Reinforced Concrete.
- ACI SP-66 - American Concrete Institute - Detailing Manual.
- ASTM A615 - Deformed and Plain Billet Steel Bars for Concrete Reinforcement.
- AWS D1.4 - Structural Welding Code for Reinforcing Steel.
- CRSI - Concrete Reinforcing Steel Institute - Manual of Practice.
- Florida Building Code.

REINFORCEMENT

Reinforcing Steel: ASTM A615, 60 ksi yield grade; deformed billet steel bars, unfinished.

ACCESSORIES

Tie Wire: Minimum 16 gage annealed type.

Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for strength and support of reinforcement during concrete placement conditions, plastic coated steel.

Rust-Inhibitive Coating: See Section 03732 2.3(B).

Maintain concrete cover around reinforcing as follows:

Item	Coverage
Supported Slabs	1-1/2 inches
Walls	1-1/2 inches
Columns	1-1/2 inches

Lap splice reinforcing bars 48 bar diameters unless indicated otherwise by Engineer. Apply brush coating of rust-inhibitive coating to all exposed reinforcing steel in concrete repair areas.

Align joints and make watertight. Keep form joints to a minimum.

If formwork is placed after reinforcement resulting in insufficient concrete cover over reinforcement, before proceeding, request instructions from Engineer.

APPLICATION - FORM RELEASE AGENT

INSERTS, EMBEDDED PARTS, AND OPENINGS

Provide formed openings where required for items passing through concrete work.

Locate and set in place items which will be cast directly into concrete.

Install accessories in accordance with manufacturer's instructions, straight, level, and plumb. Ensure items are not disturbed during concrete placement.

Provide temporary ports or openings in formwork where required to facilitate cleaning and inspection. Locate openings at bottom of forms to allow flushing water to drain.

Close temporary openings with tight fitting panels, flush with inside face of forms, and neatly fitted so joints will not be apparent in exposed concrete surfaces.

FORMWORK TOLERANCES

Construct formwork to maintain tolerances required by ACI 301.

CAST-IN-PLACE CONCRETE REFERENCES

- ACI 211.1 - Selecting Proportions for Normal, Heavyweight, and Mass Concrete.
- ACI 301 - Structural Concrete for Buildings.
- ACI 302 - Guide for Concrete Floor and Slab Construction.
- ACI 304 - Recommended Practice for Measuring, Mixing, Transporting and Placing Concrete.
- ACI 305R - Hot Weather Concreting.
- ACI 308 - Standard Practice for Curing Concrete.
- ACI 318 - Building Code Requirements for Reinforced Concrete.
- ASTM C33 - Concrete Aggregates.
- ASTM C94 - Ready-Mixed Concrete.
- ASTM C150 - Portland Cement.
- ASTM C260 - Air Entraining Admixtures for Concrete.
- ASTM C494 - Chemical Admixtures for Concrete.
- Florida Building Code.

CONCRETE MATERIALS

Cement: ASTM C150, Type I - Normal.  
Fine and Coarse Aggregates: ASTM C33.  
Water: Clean and not detrimental to concrete.

ADMIXTURES

Air Entrainment: ASTM C260.

Chemical: ASTM C494 Type A - Water Reducing, Type B - Retarding, Type D - Water Reducing and Retarding, Type F - Water Reducing, High Range.

Calcinated Pozzolan: ASTM C618 Class MBSF, Microsilica.

Corrosion Inhibitor: Rheocrete 222+ manufactured by Master Builders, Inc. or DCI manufactured by W. R. Grace, Inc.

Mix concrete in accordance with ACI 304. Deliver concrete in accordance with ASTM C94.

Provide concrete to the following mix design:

Unit	Measurement
Compressive Strength (7 day)	3,000 psi
Compressive Strength (28 day)	5,000 psi
Water/Cement Ratio (maximum)	0.40 by weight
Aggregate Size (maximum)	3/8 inch
Air Entrained	4 percent
Admixture	ASTM C-260
Admixture	ASTM C-494, B/D
Admixture	ASTM C-494, A/F
Corrosion Inhibitor	As recommended

PLACING CONCRETE

Place concrete in accordance with ACI 301, ACI 318, and ACI 304.

Notify Engineer minimum 48 hours prior to commencement of operations.

Ensure reinforcement, block-outs, inserts and embedded parts are not disturbed during concrete placement.

Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.

Do not interrupt successive placement; do not permit cold joints to occur.

Screed floors or to match slopes, maintaining surface flatness of maximum 1/4 inch in 10 ft.

CURING AND PROTECTION

Immediately after placement, protect concrete from premature drying, excessively hot temperatures, and mechanical injury.

Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.  
Cure concrete floor surfaces in accordance with ACI 308.

Spraying: Spray water over floor slab areas and maintain wet for 7 days.

Curing Compound: Apply curing compound in accordance with manufacturer's instruction as an alternate to spraying. Confirm that curing compound is compatible with any subsequent paint or coating.

PATCHING

Allow Engineer to inspect concrete surfaces immediately upon removal of forms.

Shrinkage cracking, honeycomb or embedded debris in concrete shall be considered defective concrete.

Patch imperfections as directed. Repair shrinkage cracks with pressure-injected or gravity-fed epoxy adhesive as directed by the Engineer.

DEFECTIVE CONCRETE

Defective Concrete: Concrete not conforming to required lines, details, dimensions, tolerances or specified requirements.

Repair or replacement of defective concrete will be determined by the Engineer.

Do not patch, fill, touch-up, repair, or replace exposed concrete except upon express direction of Engineer for each individual area.

CONCRETE REPAIR

REFERENCES

- ASTM A615/A615M - Deformed and Plain Billet-Steel Bars for Concrete Reinforcement.
- ASTM C882 - Bond Strength of Epoxy Resin Systems Used with Concrete.
- Florida Building Code.
- International Concrete Repair Institute.

PRODUCTS MANUFACTURERS

Degussa Building Systems (ThoRoc, Master Builders, Sonneborn)  
Sika Corporation  
Sto Construction Restoration Division

PATCHING MATERIALS

Epoxy Adhesive: Two-component, 100% solids, moisture insensitive, structural epoxy adhesive.

Bonding Agent: Multi-component, moisture tolerant, epoxy-modified, cementitious bonding agent.

Cementitious Mortar: One or two-component, polymer modified, cementitious mortar.

Curing Compound: As recommended by repair mortar manufacturer. Compatible with subsequent waterproof membranes, coatings and finishes.

Sealant: One-part, polyurethane sealant.

REINFORCEMENT MATERIALS

Reinforcing Steel: ASTM A615, 60 ksi yield grade billet-steel deformed bars, unfinished with rust-inhibitive coating.

Rust-Inhibitive Coating: Multi-component, moisture tolerant, epoxy-modified, cementitious rust-inhibitive coating.

MIXING EPOXY ADHESIVES

Mix epoxy adhesives in accordance with manufacturer's instructions for purpose intended.

Mix components in clean equipment or containers. Conform to pot life and workability limits.

MIXING CEMENTITIOUS MATERIALS

Mix cementitious mortar in accordance with manufacturer's instructions for purpose intended.

PREPARATION – SPALL REPAIR

Clean concrete surfaces of dirt, laitance, corrosion, or other contamination; sandblast; rinse surface and allow to dry.

Remove deteriorated or unsound concrete by chipping hammer where directed by the Engineer. Removal of concrete shall extend 2" to 4" beyond the outer boundary mark of unsound concrete. Areas removed shall be rectangular shaped.

The edges of the patch area shall be perpendicular or slightly undercut between 3/8" and 1/2" deep. Feather edges will not be permitted.

Concrete shall be removed completely around exposed corroded reinforcing steel such that a 3/4" clearance from the existing concrete is obtained.

Removal of concrete shall be performed by using chipping hammers not in excess of 30-lb. rating.

Remove loose concrete from the patch area and leave said area boom clean.

Sandblast clean the exposed reinforcement steel surfaces. Mechanically cut away damaged portions of bar.

Apply brush coating of rust-inhibitive coating to exposed reinforcement steel.

APPLICATION - CEMENTITIOUS MORTAR

Apply scrub coat of neat mortar to SSD concrete surfaces. Provide full surface coverage.

Apply cementitious mortar by steel trowel to an average thickness of one inch. Tamp into place filling voids at spalled areas. Work mix into honeycomb. Apply additional lifts as necessary.

Alternately, install forms and place cementitious mortar by pouring. Vibrate as necessary to consolidate.

Damp cure cementitious mortar for four days or as per manufacturer's instructions. Alternatively, apply curing compound in accordance with manufacturer's instructions.

NON-STRUCTURAL CRACK REPAIR

Rout cracks to a width and depth of ¼ inch.

Remove all dirt, dust and other foreign matter from the cracks using compressed air or water.

Allow crack to dry.

Seal crack with a one-part urethane sealant.

Tool sealant flush with adjacent surfaces.

FLUID APPLIED WATERPROOFING

REFERENCES

- ASTM D412 - Rubber Properties in Tension.
- ASTM 1653 - Vapor Permeability.
- ASTM C297 - Adhesion to Concrete.
- ASTM D570 - Water Absorption.

SYSTEM DESCRIPTION

Waterproofing System: Single application of fluid applied material to prevent moisture migration.

MANUFACTURERS

Sonneborn/Chemrex, Inc. Product Flextight.  
Sto Construction Restoration Division/Product Watertight Coat.

MEMBRANE COMPOUND MATERIAL

Waterproofing Membrane: Modified acrylic dispersion with special cements and fillers.

Cured Membrane Characteristics:

Properties	Test	Results
Tensile Strength:	ASTM D412	250 psi
Elongation:	ASTM D412	15%
Water Absorption:	ASTM D570	7.1%
Moisture Vapor:	ASTM 1653	1.20 dry perms
Concrete Adhesion	ASTM C297	89 psi

EXAMINATION

Verify substrate surfaces are durable, free of dampness, loose particles, cracks, pits, projections, or foreign matter detrimental to adhesion or application of waterproofing system.

Verify that substrate surfaces are smooth, free of honeycomb or pitting, and not detrimental to full contact bond of waterproofing materials.

Verify items which penetrate surfaces to receive waterproofing are securely installed.

PORTLAND CEMENT PLASTER

REFERENCES

- ASTM C150 - Portland Cement.
- ASTM C926 - Application of Portland Cement Based Plaster.
- Florida Building Code.

PRODUCTS

MANUFACTURERS

Rinker Stucco Mix.  
Larsen Products Corp. Weld-Crete bonding agent.

PREPARATION

Roughen smooth concrete surfaces using mechanical scabbler or similar method.

Remove all loose material, dust, dirt, laitance, etc. from surfaces to receive stucco to provide clean, dry surface.

Apply bonding agent uniformly, using brush or roller, to form continuous blue film over entire surface.

Allow to dry one hour.

Apply plaster within 10 days.

PLASTERING

Apply plaster in accordance with ASTM C926 and manufacturer's instructions.

Apply scratch coat to a nominal thickness of 3/8 inch, brown coat to a nominal thickness of 3/8 inch and a finish coat to a nominal thickness of 1/8 inch over metal-lathed surfaces.

Apply brown coat to a nominal thickness of 3/8 inch and a finish coat to nominal thickness of 1/8 inch over masonry and concrete surfaces.

Moist cure scratch and brown coats.

After curing, dampen base coat prior to applying finish coat.

Apply finish coat and trowel to a consistent finish to match existing.

Avoid excessive working of surface. Delay troweling as long as possible to avoid drawing excess fines to surface.

Moist cure finish coat for minimum period of 48 hours.

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MCE

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DATE REVISION

DWG. TITLE

SCALE

PROJECT NO.

DATE E130160

SHEET NUMBER 07-29-13

S-1.0



THESE DETAILS ARE APPLICABLE TO HORIZONTAL, VERTICAL, AND OVERHEAD LOCATIONS. THEY ARE ALSO APPLICABLE TO REMOVE BY HYDRO-DEMOLITION, HYDROMILLING, AND ELECTRIC, PNEUMATIC OR HYDRAULIC IMPACT BREAKERS.

7 REMOVE DELAMINATED CONCRETE, UNDERCUT REINFORCING STEEL (REFER TO "EXPOSING AND UNDERCUTTING OF REINFORCING STEEL" ON THIS SHEET), REMOVE ADDITIONAL CONCRETE AS REQUIRED TO PROVIDE MINIMUM REQUIRED THICKNESS OF REPAIR MANUAL.

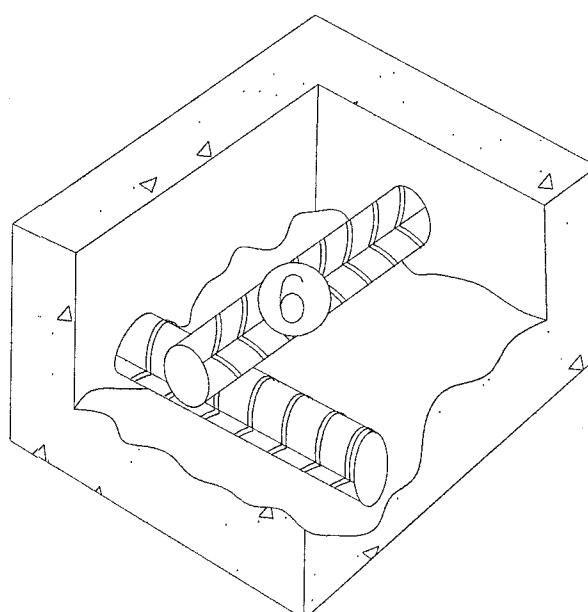
- SAWCUT 1/2" (16mm) OR LESS AS REQUIRED TO AVOID CUTTING REINFORCING STEEL.
- USE POWER EQUIPMENT SUCH AS HYDRODEMOLITION OR IMPACT BREAKERS. AVOID FEATHER EDGES.

10 AFTER REMOVALS AND EDGE CONDITIONING ARE COMPLETE, REMOVE BOND INHIBITING MATERIALS (DIRT, CONCRETE SLURRY, LOOSELY BONDED AGGREGATES) BY ABRASIVE BLASTING OR HIGH PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVE. CHECK THE CONCRETE SURFACES AFTER CLEANING TO INSURE THAT SURFACE IS FREE FROM ADDITIONAL LOOSE AGGREGATE, OR THAT ADDITIONAL DELAMINATIONS ARE NOT PRESENT.

Figure 1 shows a perspective view of a rectangular box 10. Inside the box, there are two cylindrical objects, 7 and 8. Object 8 is positioned diagonally across the box, and object 7 is positioned horizontally. A 90-degree angle is indicated between the two objects.

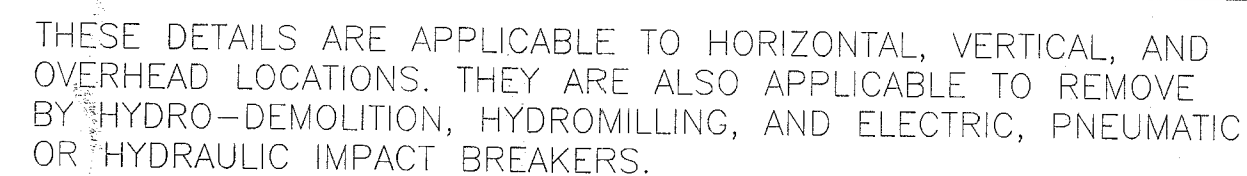


6 ALL HEAVY CORROSION AND SCALE SHOULD BE REMOVED FROM BAR AS NECESSARY TO PROMOTE MAXIMUM BOND OF REPLACEMENT MATERIAL. OIL FREE ABRASIVE BLAST IS THE PREFERRED METHOD. A TIGHTLY BONDED LIGHT RUST BUILD-UP ON THE SURFACE IS USUALLY NOT DETRIMENTAL TO BOND, UNLESS A PROTECTIVE COATING IS BEING APPLIED TO THE BAR SURFACE, IN WHICH CASE THE COATING MANUFACTURER'S RECOMMENDATION FOR SURFACE PREPARATION SHOULD BE FOLLOWED.

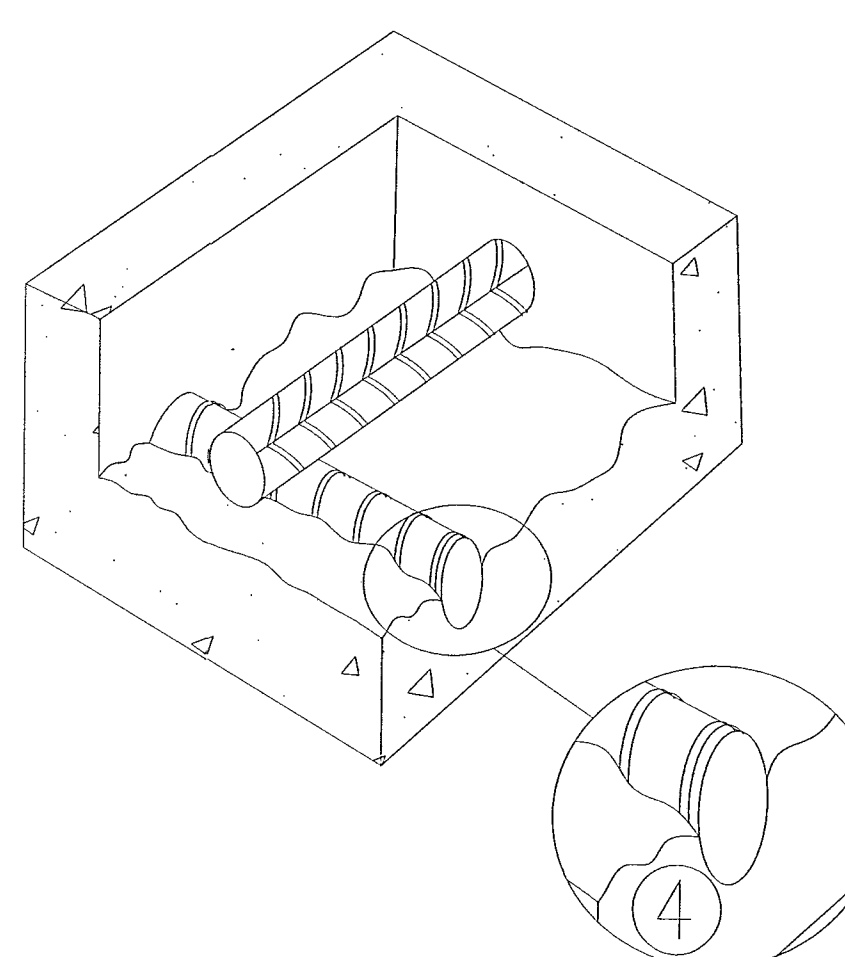
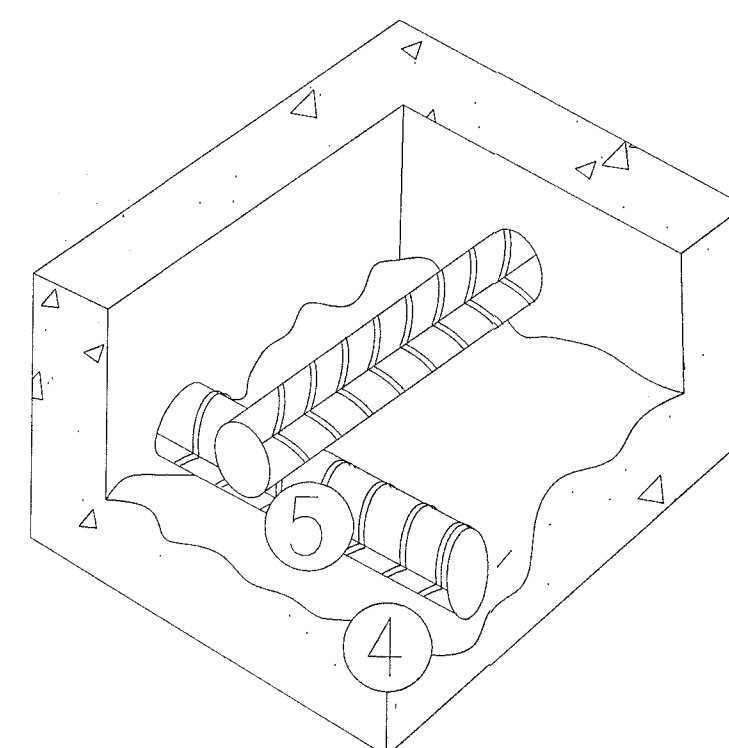
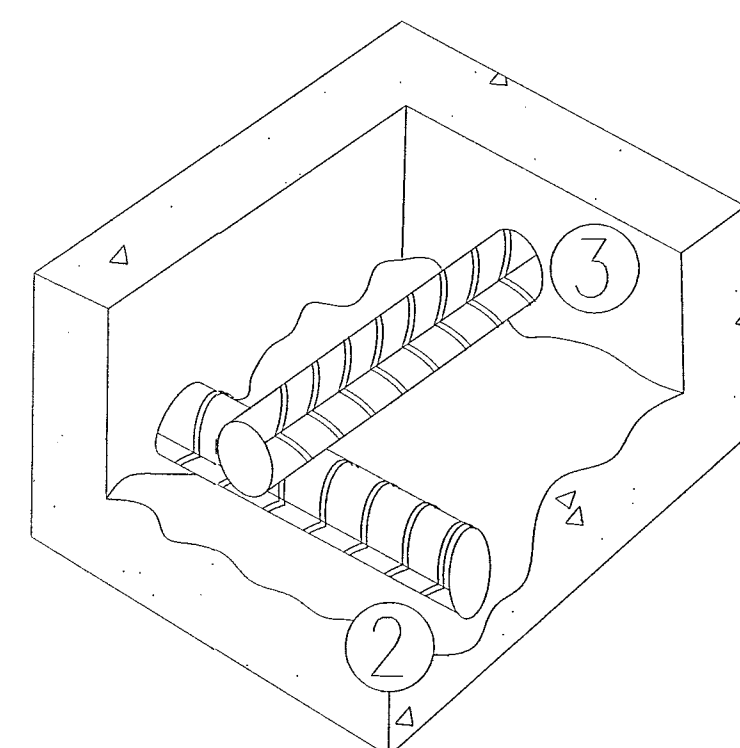
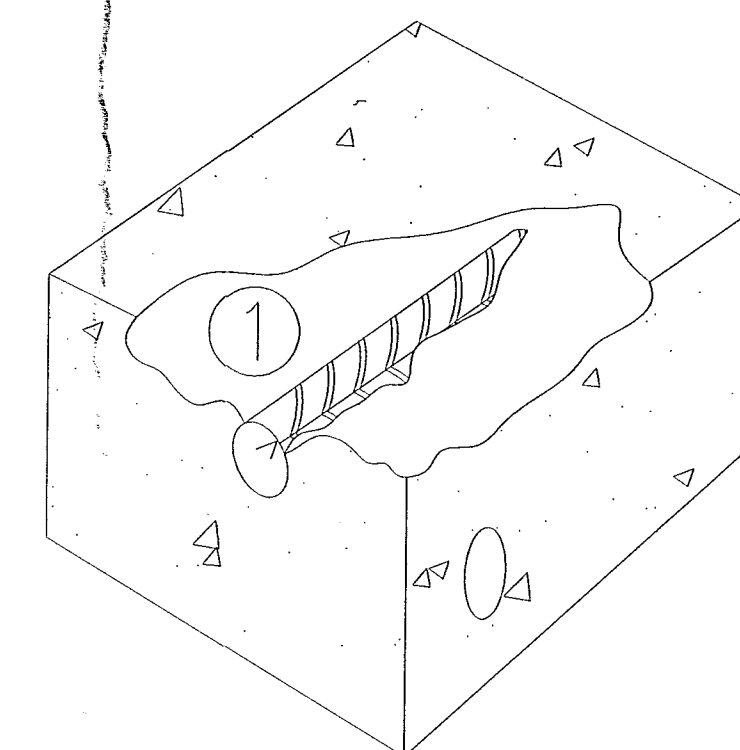


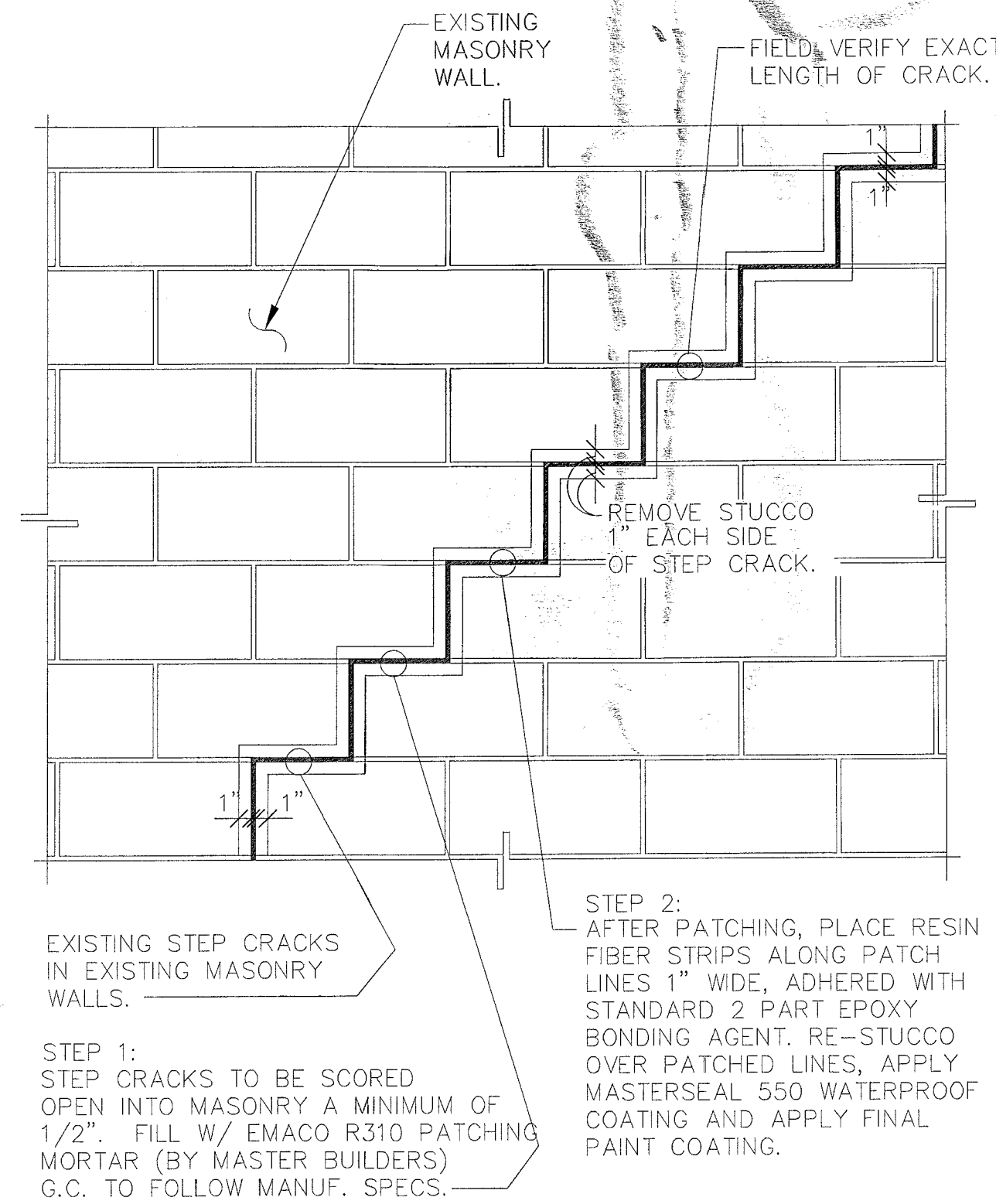
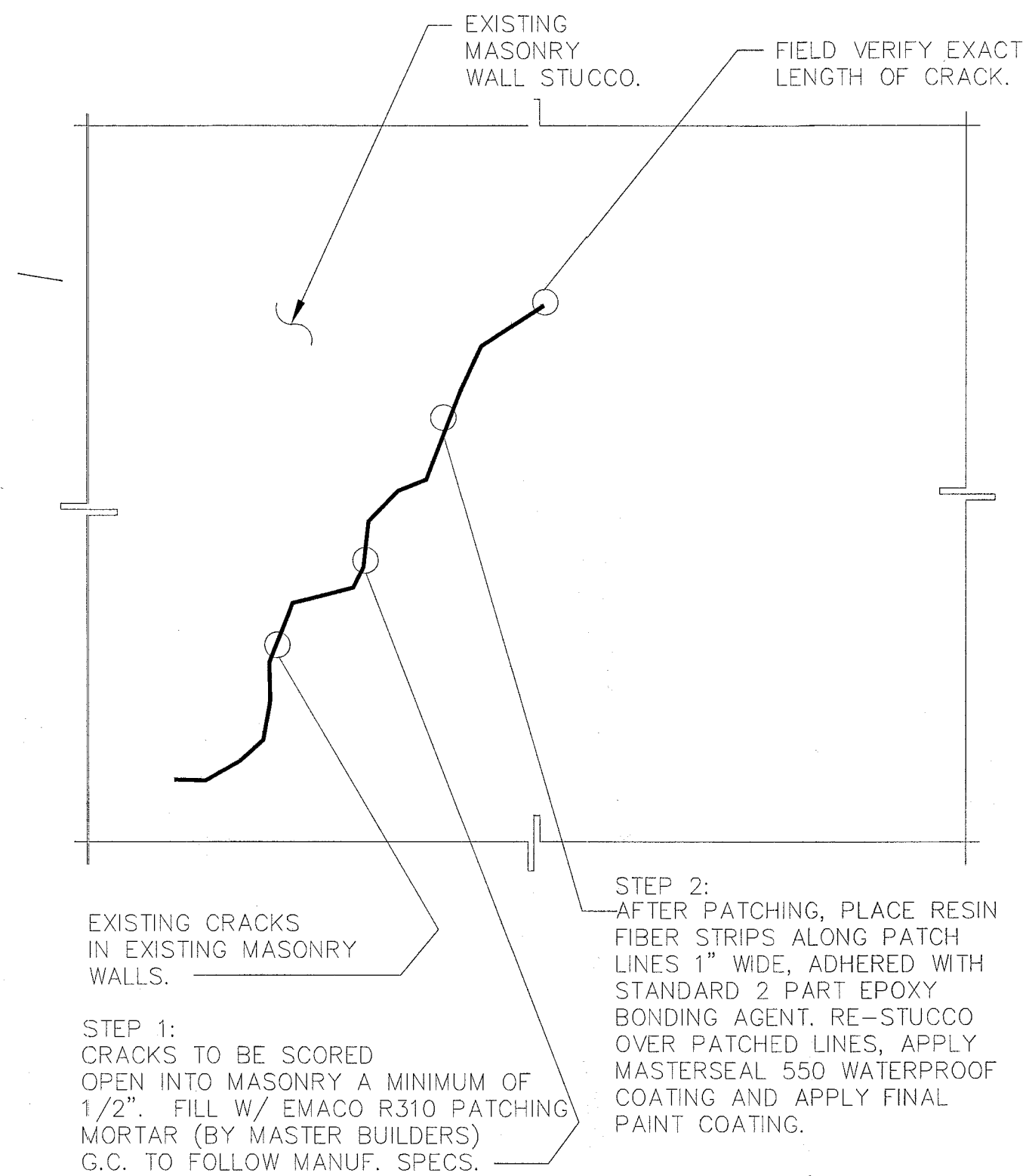
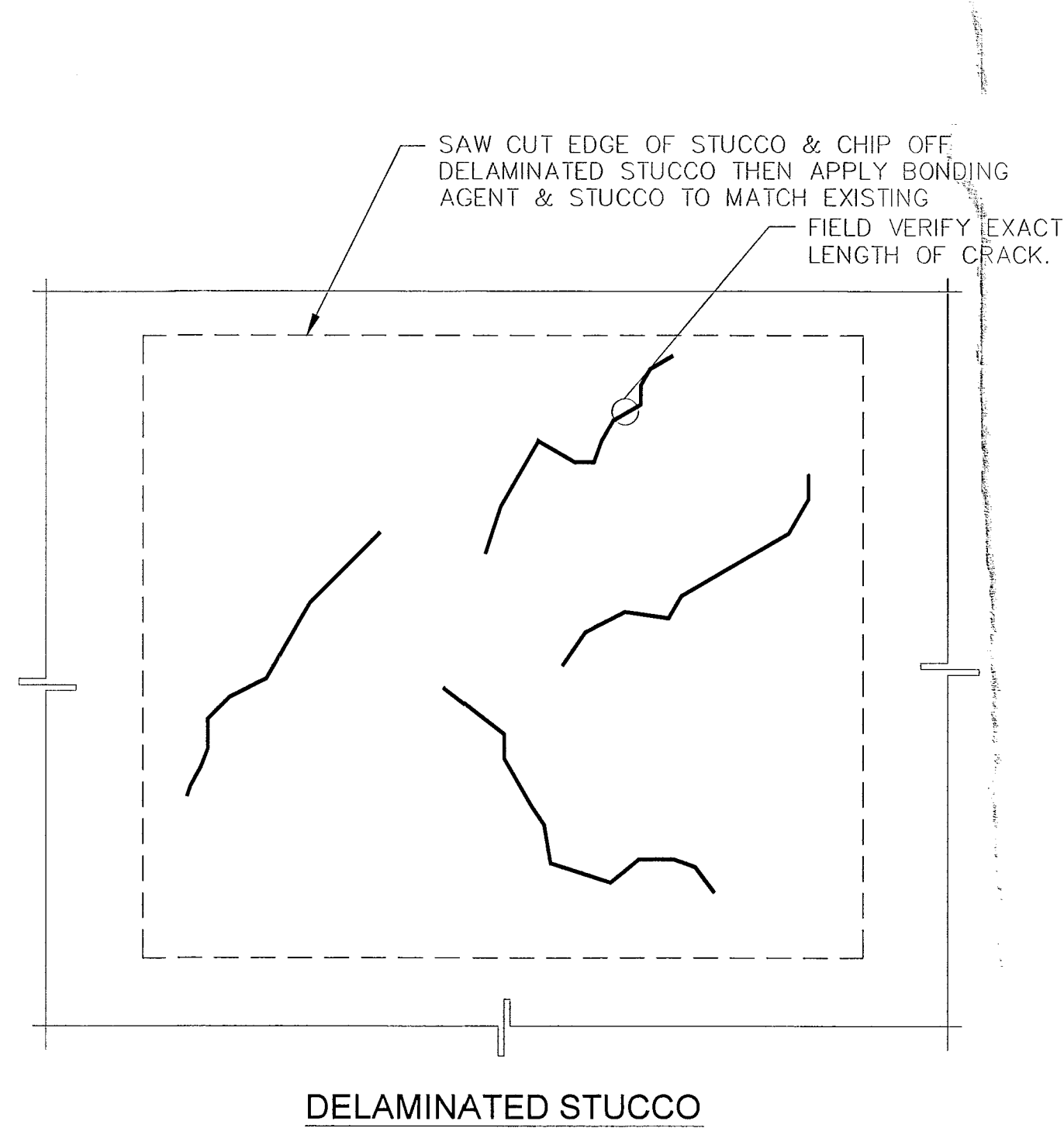
IF REINFORCING STEEL HAS LOST MORE THAN 5% OF ITS CROSS SECTION, A STRUCTURAL ENGINEER SHOULD BE CONSULTED. IF REPAIRS ARE REQUIRED TO THE REINFORCING STEEL, ONE OF THE FOLLOWING REPAIR METHODS SHOULD BE USED.

- NEW BARS MAY BE MECHANICALLY SPICED TO OLD BARS OR PLACED PARALLEL TO AND APPROXIMATELY 1/4" FROM EXISTING BARS. LAP LENGTH SHALL BE DETERMINED IN ACCORDANCE WITH ACI318; ALSO REFER TO CRSI AND AASHTO MANUAL.



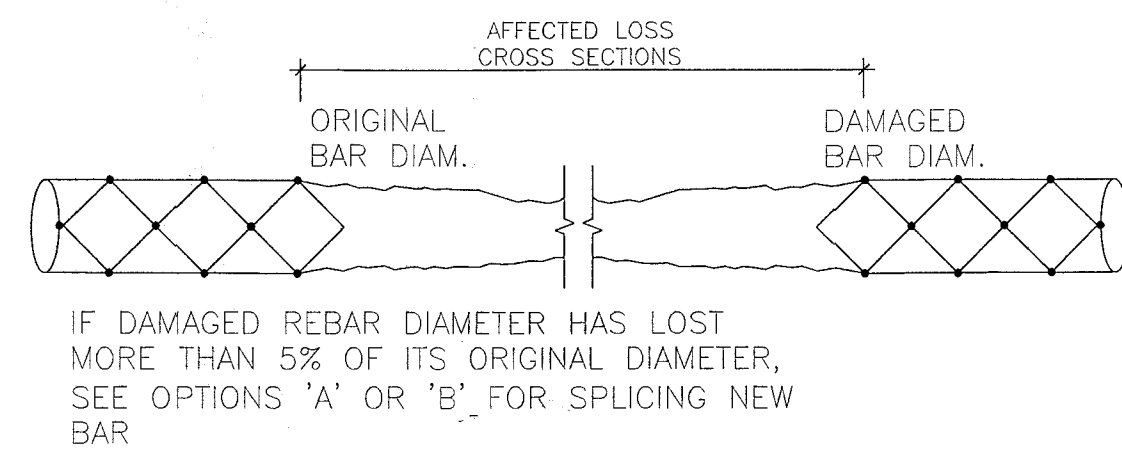
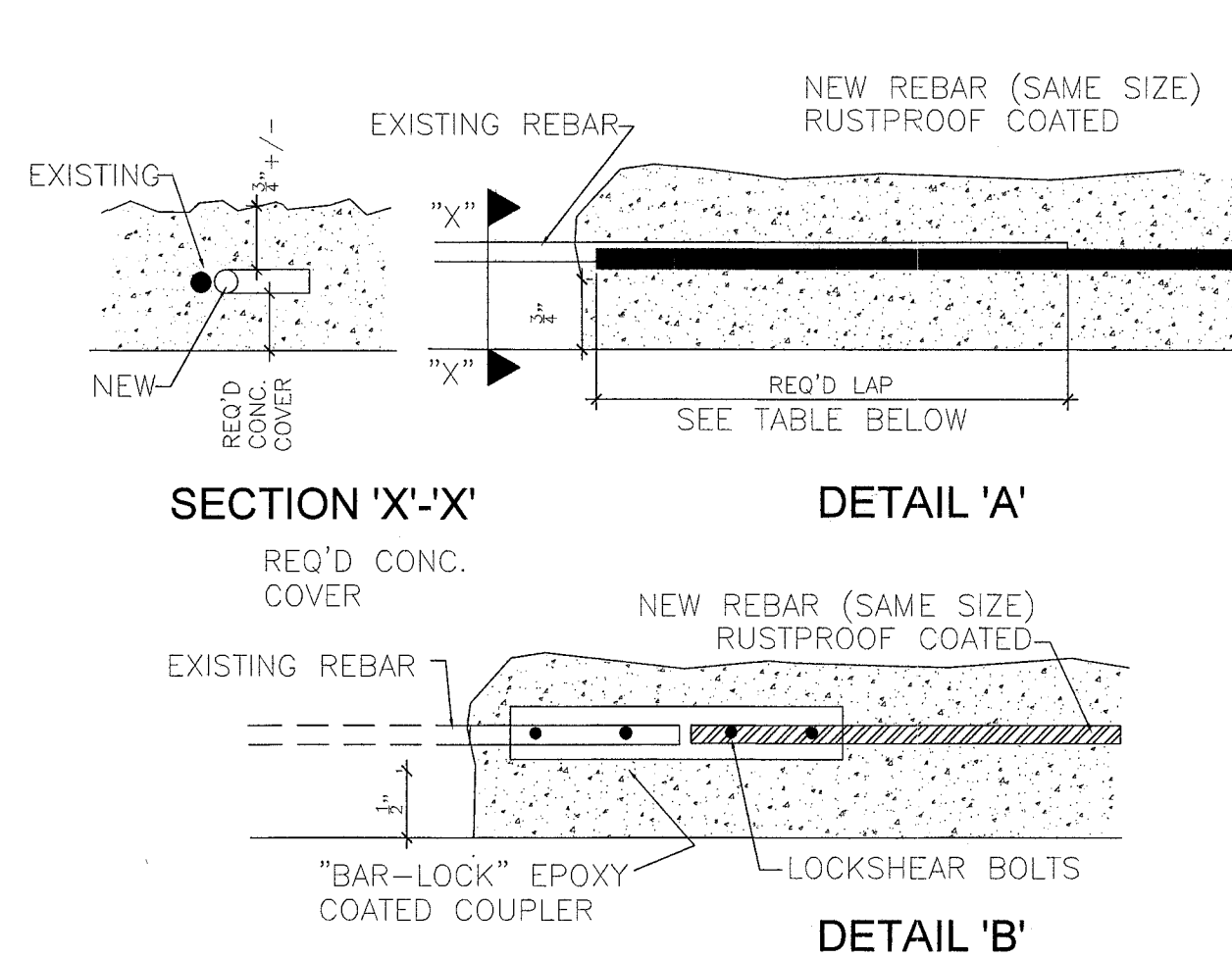
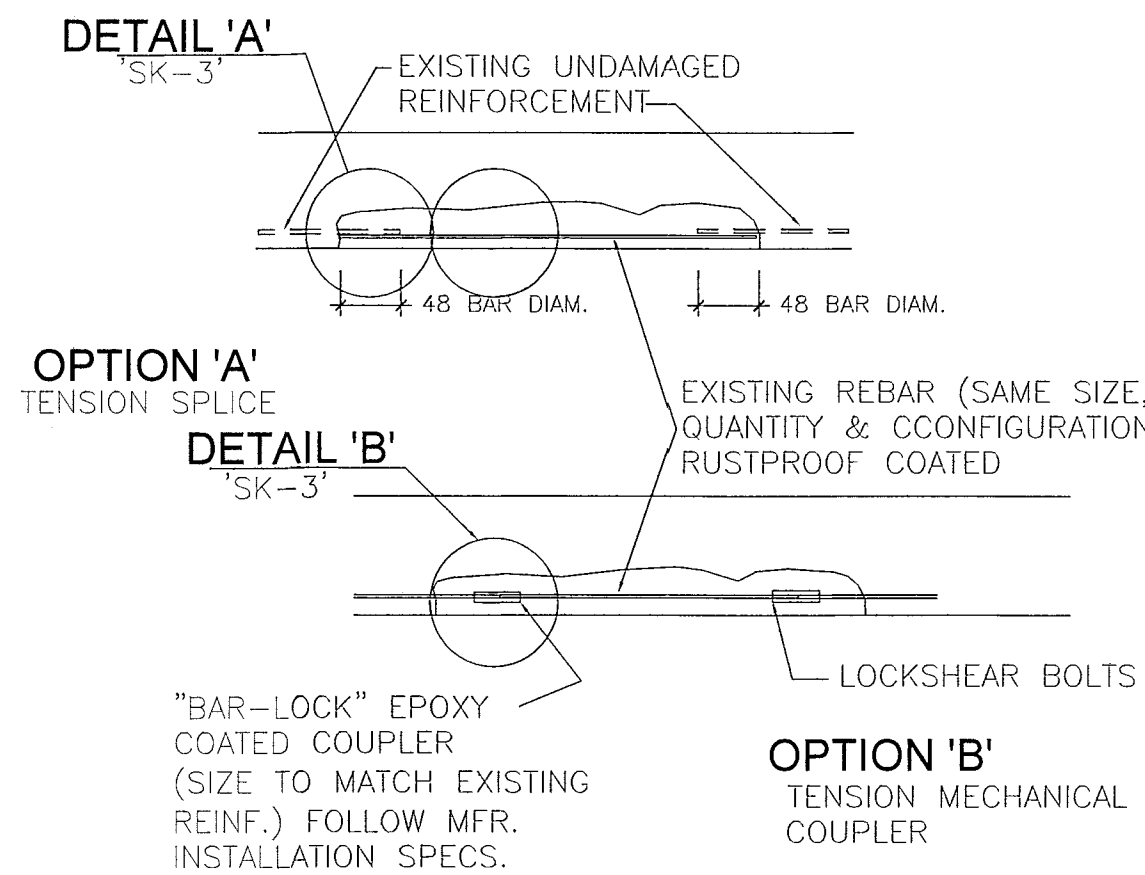
- ① REMOVE LOOSE OR DELAMINATED CONCRETE ABOVE CORRODED REINFORCING STEEL.
- ② ONCE INITIAL REMOVALS ARE MADE, PROCEED WITH THE UNDERCUTTING OF ALL EXPOSED CORRODED BARS. UNDERCUTTING WILL PROVIDE CLEARANCE FOR UNDER BAR CLEANING AND FULL BAR CIRCUMFERENCE BONDING TO SURROUNDING CONCRETE, AND WILL SECURE THE REPAIR STRUCTURALLY, PROVIDE MINIMUM 3/4" inch. (19mm) CLEARANCE BETWEEN EXPOSED REBARS AND SURROUNDING CONCRETE OR 1/4" (6mm) LARGER THAN LARGEST AGGREGATE IN REPAIR MATERIAL, WHICHEVER IS GREATER.
- ③ CONCRETE REMOVALS SHALL EXTEND ALONG THE BARS TO LOCATIONS ALONG THE BAR, FREE OF BOND INHIBITING CORROSION, AND WHERE THE BAR IS WELL BONDED TO SURROUNDING CONCRETE.
- ④ IF NON-CORRODED REINFORCING STEEL IS EXPOSED DURING THE UNDERCUTTING PROCESS CARE SHALL BE TAKEN NOT TO DAMAGE THE BAR'S BOND TO SURROUNDING CONCRETE. IF BROKEN, UNDERCUTTING OF THE BAR SHALL BE REQUIRED.
- ⑤ ANY REINFORCEMENT WHICH IS LOOSE SHALL BE SECURED IN PLACE BY TYING TO OTHER SECURED BARS OR BY WHEN APPROVAL METHODS.





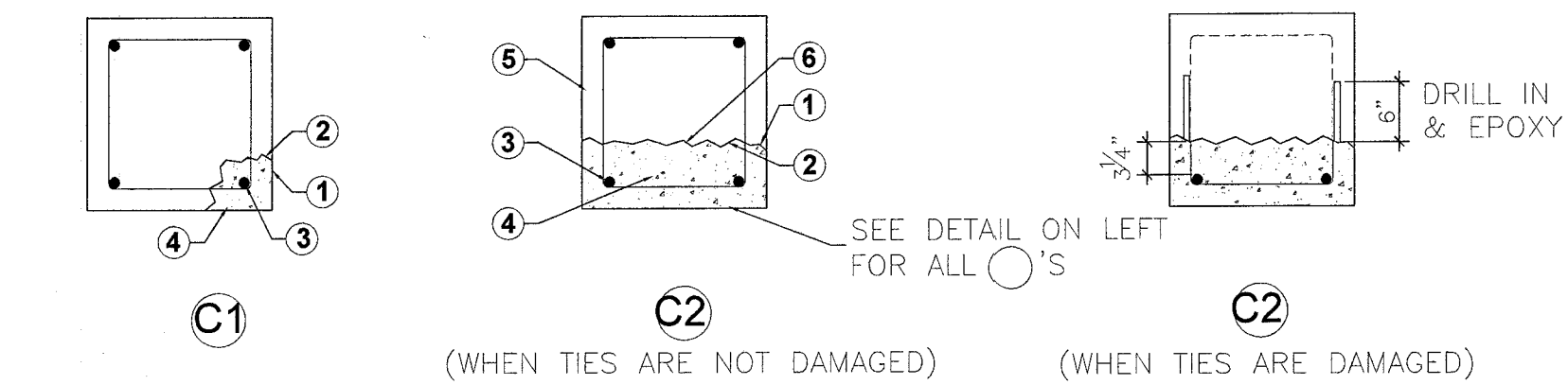
#### STUCCO CRACK DETAIL

#### STEP CRACK DETAIL



#### DAMAGED REINFORCING BAR LAP LENGTH TABLE

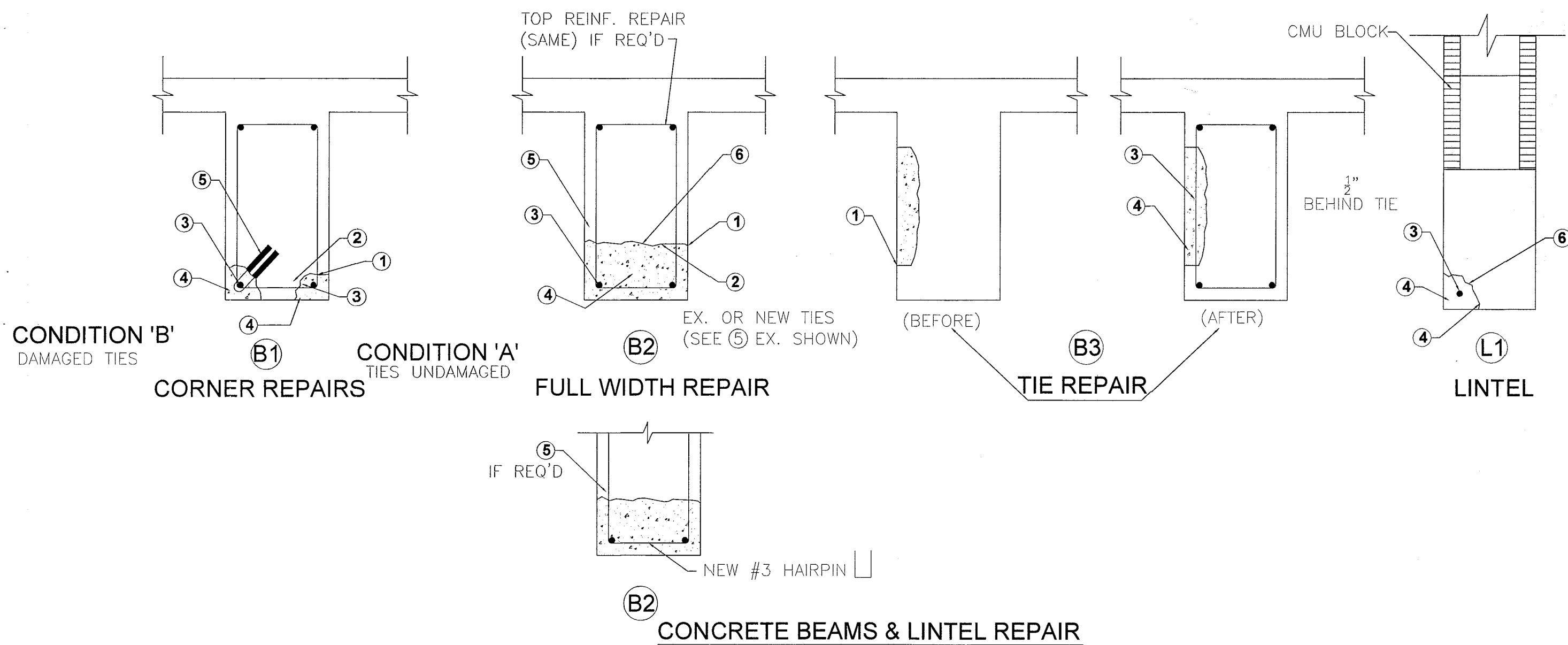
BAR SIZE	TENSION @ SLAB, BEAMS & RIBS F <sub>c</sub> = 3000 PSI MIN	COMPRESSION COLUMNS
#3	21"	12"
#4	28"	12"
#5	36"	14"
#6	43"	16"
#7	62"	19"
#8	71"	22"
#9	80"	25"



#### TYPICAL COLUMN REPAIR

#### EXISTING COLUMNS ADD'N STEEL ANGLE REINFORCEMENT

(SEE PLANS FOR LOCATION OF STEEL REIN. COLUMNS)



#### CONCRETE REPAIR LEGEND

ALL REPAIR MATERIALS NAMED HERE ARE AS MANUFACTURED BY 'MASTER BUILDERS, INC.'. SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

- SAW CUT 1/2" DEEP (90° TO THE SURFACE OF SLABS COLUMNS RIBS & BEAMS) CONTINUOUS AROUND THE PERIMETER OF THE REPAIR AREA.
- CHIP AND REMOVE CRACKED AND DAMAGED CONCRETE TO A MINIMUM DISTANCE OF 3/4" BEHIND REBARS, EXTEND CHIPPING TO FOLLOW THE REBARS LENGTH UNTIL SOUND CONCRETE IS ENCOUNTERED AND THE REBAR BEING EXPOSED IS NOT RUSTED. IF HAIRLINE CRACKS CONTINUE INTO OTHERWISE SOUND CONCRETE, CONTRACTOR TO EPOXY INJECT THE INNER CRACKS (WITH 'SCB CONCRECISIVE 1380', BEFORE APPLYING PATCHING).
- EXPOSE RUSTED REBARS. SAND BLAST CLEAN AND OBSERVE CROSS SECTION (SEE CROSS SECTION REDUCTION DETAIL FOR MORE INFORMATION). COAT REBAR WITH RUSTPROOF PAINT ('EMACO P-24'). NEW ADDED REBARS SHALL BE PAINTED WITH SAME EPOXY REBAR COATING.
- PATCH CONCRETE (TO ORIGINAL DIMENSIONS) WITH REPAIR MORTAR ('EMACO S88 CI' OR 'MASTERPATCH 240 CR') ALTERNATIVELY CONCRETE APPLIED BY GUNITE MAY BE CONSIDERED. IF REQUIRED APPLY 'EMACO P-24' EPOXY BONDING AGENT TO EXISTING CONCRETE. ALL CONCRETE F<sub>c</sub> = 5000 PSI MINIMUM.
- ADD #3 HAIRPINS (DRILLED IN AND EPOXY BONDED) AT SAME SPACING AS ORIGINAL DAMAGED TIES.
- EXISTING HAIRLINE TO MEDIUM SIZED CRACKS TO BE CLEANED AND INJECTED WITH 'SCB CONCRECISIVE 1380' EPOXY INJECTION ADHESIVE. THE MOST SUITABLE INJECTION MATERIAL WILL BE DETERMINED AFTER EXPOSING AND CLEANING SOME OF THE EXISTING CRACKS.
- LIGHTLY RUSTED REBAR (NOT ALL AROUND) TO BE CLEANED OBSERVED AND COATED AS PER ITEM #3.