DELTA G CONSULTING ENGINEERS, INC.

October 23, 2014

Plan Reviewers
Re: San Juan Hotel, 1680 Collins Ave.
Process Number: B1400884

Please see below responses to comments for the above referenced project.

FIRE

1. CLARIFY LIGHT FIXTURES ON EMERGENCY LIGHTING,TYPICAL FOR ALL SHEETS.

Response: **All emergency light fixtures have been identified. Please see the revised lighting plans.**

2. PROVIDE PHOTOMETRICS(NORMAL & EMERGENCY) FOR COMPLIANCE VERIFICATION PER THE FFPC 2010 CHAP 7

Response: **Normal and emergency photometrics are now provided. Please see the newly added "EPH" photometrics sheets.**

3. CLARIFY IF EXIT SIGNS AND EMERGENCY LIGHTS HAVE BATTERY BACKUP RATED FOR 90 MIN.

Response: **A note has been added stating that all exit signs and emergency lights shall have 90 minute battery backup. Please see the revised lighting plans.**

4. CLARIFY IF CONTRACTOR SHALL PROVIDE SHOP DRAWINGS

Response: **Contractor must provide shop drawings. Please refer to the shop drawing requirements on sheet E001.**

Should you have any questions regarding the above responses, please contact our office at (954) 527-1112 or by fax at (954) 524-7505.

Sincerely,

Steve Robitaille (Project Manager)
Delta G Consulting Engineers, Inc.

707 NE 3rd Ave Suite 101, Fort Lauderdale, FL, 33304 Telephone: (954) 527-1112 Fax: (954) 524-7505

REVIEW COMMENTS

San Juan Hotel ADD, Inc. Job No. **13023.00**

Submittal No: **B1403807**
Address: 1680 Collins Ave Miami Beach, FL 33139
Date: 6 October 2014

FIRE – 9/30/2014 (ARMT)

Item # Comment

1. CLARIFY WHERE AND HOW THE GUEST CHECK IN/OUT SHALL OCCUR WHEN PHASE "C" IS TAKING PLACE
ADD Inc Response: A temporary reception counter will be placed on the temporary reception notch shown on sheet LS100. A temporary 2Hr wall will separate the construction from hotel guests as shown on this sheet.

1A. STATE ON PLANS THE FIRE/SMOKE RATING INTEGRITY BETWEEN FLOORS SHALL BE MAINTAINED DURING DEMO
ADD Inc Response: Refer to note #25 on sheet AD101.

LS101(NEW SHEET):
6. PLANS SHOW EGRESS TOTAL NUMBERS AT THE DISCHARGE, SHOW OTHER AREAS CONTRIBUTING TO THE TOTAL NUMBER, TYPICAL THROUGHOUT (E.G. NUMBERS CONTRIBUTING TO THE 63 EGRESSING THE LOBBY AREA)
ADD Inc Response: On the life safety sheets, each room is labeled with the type of occupancy and the occupant load for each. All of these numbers are accounted for and used for the occupant load for the floor divided by the number of exits provided at each floor. On the top left hand corner there is a chart summarizing the number of occupants per floor.

SHEET LS102:
1. TITLE BLOCK STATES FIRST AND SECOND FLOOR, YET THE DETAILED DRAWINGS SHOW SECOND AND THIRD?
ADD Inc Response: Refer to updated sheet LS102.

SHEET A111:
1. PLANS SHOW A BENCH IN FRONT OF THE SIAMESE, THIS SHALL BLOCK IT FROM BEING SEEN EASILY FROM THE STREET PER THE NFPA 14 07 ED, RECTIFY (STILL SHOWING)(ALTHOUGH THE EXISTING SIAMESE IS BEHIND A KNEE WALL IT STILL HAS CLEARENCE PER THE NFPA 1 09ED, ONCE THE BENCHES ARE PLACED IT SHALL NOT COMPLY)(ELIMINATE BENCHES SHOWN)
ADD Inc Response: Refer to updated sheet showing the bench removed.

T 305.482.8700
F 305.482.8770
W www.addinc.com

One Biscayne Tower Suite 1670
Two South Biscayne Boulevard Miami, FL 33131
License AA0003274

5A. PROVIDE DETAILED DRAWING FOR BLUE DOTTED ITEMS TO VERIFY COMPLIANCE WITH THE FFPC 2010 CHAP 7
ADD Inc Response: Need more detail information in order to provide clarification.

SHEET A112:
1. PROVIDE RATING OF STORAGE ROOM TO VERIFY COMPLIANCE WITH THE FFPC 2010 TABLE 29.3.2.2.2 THE DOOR OF THIS SPACE SHALL ALSO COMPLY WITH THE FFPC 2010 TABLE 8.3.4.2, IF WALLS ARE 1-HR THE DOOR SHALL BE 45 MIN WITH SELF-CLOSING AND LATCHING HARDWARE
ADD Inc Response: See detail #22 on updated Sheet A800 for wall fire rating, and updated sheet A191 for door rating.

2. PROVIDE RATING BWTEEN THE ROOM AND STORAGE TO VERIFY COMPLIANCE WITH THE FFPC 2010 TABLE 6.1.14.4.1(A)(B)
ADD Inc Response: The wall between the room and the storage is an exterior wall. The window from the room is higher than the storage room. Refer to south elevation on sheet A431 for location of the window in relation to the storage room.

SHEET A191:
1. UPDATE DOOR SCHEDULE PER PREVIOUS COMMENTS
ADD Inc Response: See sheet A191 for updated door schedule.

SHEET A201:
1. PROVIDE CEILING HEIGHT THROUGHOUT TO VERIFY HEADROOM COMPLIANCE WITH THE FFPC 2010 7.1.5 6'-8" MIN
ADD Inc Response: Ceiling heights updated for all spaces and typical rooms see sheet 201, 211, and 212.

SHEET A721:
1. PROVIDE FURNITURE LAYOUT IN THE LIFE SAFETY PLAN AS SHOWN ON A721 TO VERIFY MIN 44" REQUIRED EGRESS WIDTH TO THE PUBLIC WAY PER THE FFPC 2010 CHAP 7
ADD Inc Response: Refer to updated LS101 sheet with the furniture turned on as requested.

SHEET A800:
1. REFER TO LIFE SAFETY COMMENTS REGARDING DETAIL#8
ADD Inc Response: Built in bench has been removed from detail 10 on sheet A800. Detail 8 shows all requirements as per NFPA 2010 Table 7.2.2.2.1(b).

U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1–9.

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

SECTION A – PROPERTY INFORMATION

FOR INSURANCE COMPANY USE

A1. Building Owner's Name
SAN JUAN HOTEL LLC

Policy Number:

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
1680 COLLINS AVENUE (SAN JUAN HOTEL)

Company NAIC Number:

City MIAMI BEACH State FL ZIP Code 33139

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
LOT 8 AND SOUTH HALF OF LOT 9, BLOCK 30, FISHER'S FIRST SUBD. OF ALTON BEACH, (P.B. 2, PG. 77)

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

A5. Latitude/Longitude: Lat. 25° 47' 31.0" N Long. 80° 07' 47.9" W Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

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

A7. Building Diagram Number 2 and 6

A8. For a building with a crawlspace or enclosure(s):
- a) Square footage of crawlspace or enclosure(s) 1,266 sq ft
- b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade 3
- c) Total net area of flood openings in A8.b 1728 sq in
- d) Engineered flood openings? ☐ Yes ☒ No

A9. For a building with an attached garage:
- a) Square footage of attached garage N/A sq ft
- b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade 0
- c) Total net area of flood openings in A9.b 0 sq in
- d) Engineered flood openings? ☐ Yes ☒ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
CITY OF MIAMI BEACH 120651	MIAMI-DADE	FLORIDA

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
12086C 0317	L	SEPTEMBER 11, 2009	SEPTEMBER 11, 2009	"AE"	EL. 8

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source: _____

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

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

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

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

Benchmark Utilized: MIAMI-DADE COUNTY BENCH MARK SYSTEM Vertical Datum: NATIONAL GEODETIC VERTICAL DATUM 1929

Indicate elevation datum used for the elevations in items a) through h) below. ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other/Source: _____
Datum used for building elevations must be the same as that used for the BFE.

		Check the measurement used.	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	1.22	☒ feet	☐ meters
b) Top of the next higher floor	3.69	☒ feet	☐ meters
c) Bottom of the lowest horizontal structural member (V Zones only)	N/A	☐ feet	☐ meters
d) Attached garage (top of slab)	N/A	☐ feet	☐ meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	7.88	☒ feet	☐ meters
f) Lowest adjacent (finished) grade next to building (LAG)	5.61	☒ feet	☐ meters
g) Highest adjacent (finished) grade next to building (HAG)	6.49	☒ feet	☐ meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	N/A	☐ feet	☐ meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

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

☒ Check here if comments are provided on back of form.
☐ Check here if attachments.

Were latitude and longitude in Section A provided by a licensed land surveyor? ☒ Yes ☐ No

Certifier's Name JOSE G. HERNANDEZ, PLS		License Number 6952	
Title SEC/TREASURER	Company Name SCHWEBKE-SHISKIN & ASSOCIATES		
Address 3240 CORPORATE WAY	City MIRAMAR	State FL	ZIP Code 33025
Signature	Date 09/26/14	Telephone 954-435-7010	

PLACE SEAL HERE

PSM #6952
September 26, 2014

IMPORTANT: In these spaces, copy the corresponding information from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1680 COLLINS AVENUE (SAN JUAN HOTEL)	Policy Number:
City MIAMI BEACH State FL ZIP Code 33139	Company NAIC Number:

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

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

Comments ORDER # 203228
MIAMI-DADE COUNTY BENCHMARK NUMBER Y-310-R, ELEV =5.62' NGVD (4.07 NAVD 1988)
A5 = COORDINATES OBTAINED USING STATE OF FLORIDA ORTHO-RECTIFIED AERIAL IMAGERY AND CONVERTED WITH CORPSCON SOFTWARE. C2a= NORTH BASEMENT FINISH FLOOR. C2b = SOUTH BASEMENT FINISH FLOOR
C2e = ELECTRICAL ROOM FINISH FLOOR AT THE N.E BUILDING AREA. CROWN OF ROAD: 5.23' NGVD COLLINS AVENUE.
AREA OF ENCLOSURE IS A "BASEMENT" COVERING A PORTION OF THE BUILDING FOOTPRINT. THE BALANCE OF THE AREA UNDER THE BUILDING IS A CRAWLSPACE, WHERE THE BUILDING IS RAISED ON PIERS WITH ENCLOSED SIDES. NORTH ENTRANCE FINISH FLOOR = 6.26' N.G.V.D. LOBBY FINISH FLOOR = 7.88' N.G.V.D.

Signature Date 09/26/14

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

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

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

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

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

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

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

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

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

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

Address City State ZIP Code

Signature Date Telephone

Comments

☐ Check here if attachments.

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

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

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

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

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

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

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

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

Local Official's Name Title

Community Name Telephone

Signature Date

Comments

☒ Check here if attachments.

Building Photographs

See Instructions for Item A6.

IMPORTANT: In these spaces, copy the corresponding information from Section A.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1680 COLLINS AVENUE (SAN JUAN HOTEL)	FOR INSURANCE COMPANY USE Policy Number:
City MIAMI BEACH State FL ZIP Code 33139	Company NAIC Number:

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



FRONT VIEW
EAST SIDE
SEPTEMBER 26, 2014



RIGHT VIEW
NORTH SIDE
SEPTEMBER 26, 2014

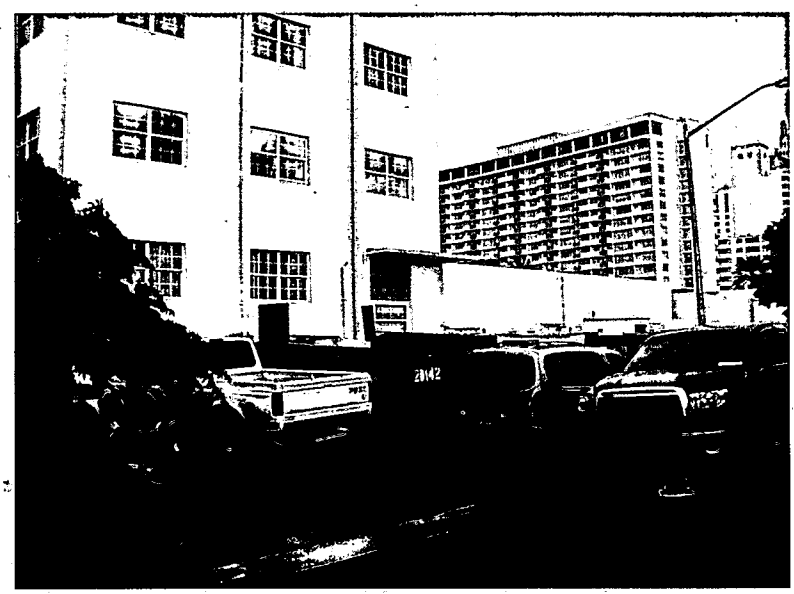
Building Photographs

See Instructions for Item A6.

IMPORTANT: In these spaces, copy the corresponding information from Section A.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1680 COLLINS AVENUE (SAN JUAN HOTEL)	FOR INSURANCE COMPANY USE Policy Number:
City MIAMI BEACH State FL ZIP Code 33139	Company NAIC Number:

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



REAR VIEW
WEST SIDE
SEPTEMBER 26, 2014



LEFT VIEW
SOUTH SIDE
SEPTEMBER 26, 2014

Reliable®

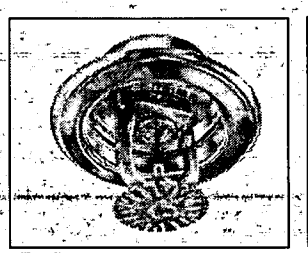
Model F1 Residential Sprinklers for Design Density of .10 gpm/ft²

Bulletin 176 Rev. C

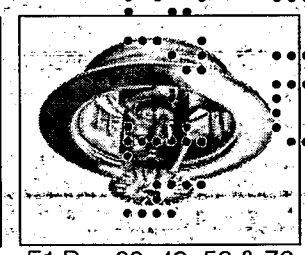
Model F1 Res Sprinklers Listed to meet the minimum design density as required by UL1626.

Types:

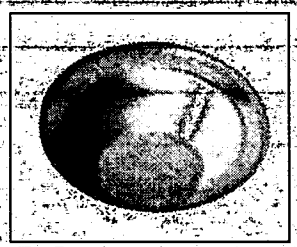
1. F1 Res 30 Pendent
2. F1 Res 30 Recessed/F2
3. F1 Res 30 Recessed/FP
4. F1 Res 30 CCP Pendent
5. F1 Res 49 Pendent
6. F1 Res 49 Recessed Pendent/F1
7. F1 Res 49 Recessed Pendent/FP
8. F1 Res 49 CCP Pendent
9. F1 Res 58 Pendent
10. F1 Res 58 Recessed Pendent/F1
11. F1 Res 58 Recessed Pendent/FP
12. F1 Res 58 CCP Pendent
13. F1 Res 44 & 58 HSW
14. F1 Res 44 & 58 HSW Recessed HSW/F2
15. F1 Res 58 HSWX
16. KRes58 HSWX
17. F1 Res 44 SWC
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19. F1 Res 76 Recessed Pendent/F1
20. F1 Res 76 Recessed Pendent/FP
21. F1 Res 76 CCP Pendent



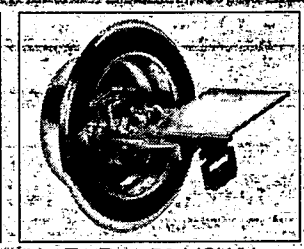
F1 Res 30, 49, 58 & 76 Recessed Pendent/F1



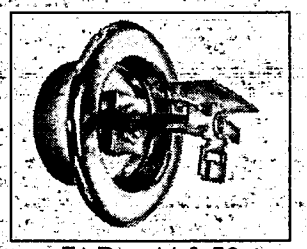
F1 Res 30, 49, 58 & 76 Recessed Pendent/FP



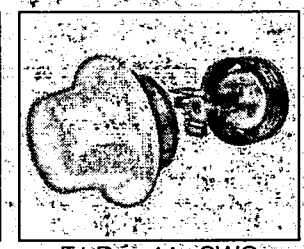
F1 Res 30, 49, 58 & 76 CCP Pendent



F1 Res 58 HSWX



F1 Res 44 & 58 Recessed HSW/F2



F1 Res 44 SWC

Listings & Approvals

1. Listed by Underwriters Laboratories Inc. and UL Certified for Canada (cULus)
2. NYC MEA 258-93-E

UL Listing Category

Residential Automatic Sprinkler

UL Guide Number

VKKW

Patents

US Patent No. 6,516,893 applies to the Model F1 Res 49 & 58 Pendent Sprinklers

US Patent No. 7,353,882 applies to Model F1 Res 44 & 58 HSW Sprinklers

US Patent No. 7,784,555 applies to Model F1 Res 44 SWC Sprinkler

Patent Pending - Model F1 Res 76 Pendent Sprinkler

Product Description

Model F1Res Pendent sprinklers (Figs. 1, 2, 3 & 4) combine excellent durability, high sensitivity glass-bulb and low profile decorative design.

The 3mm glass-bulb pendent sprinklers permit the efficient use of residential water supplies for sprinkler coverage in residential fire protection design.

Upon fire conditions, rising heat causes a sprinkler's heat-sensitive glass-bulb to shatter, releasing the waterway for water flow onto the deflector, evenly distributing the discharged water to control a fire.

Technical Data:

- Thermal Sensor: Nominal 3mm glass-bulb
- Sprinkler Frame : Brass Casting
- Sprinklers' Pressure Rating : 175 psi
  Factory Hydrostatically Tested to 500 psi
- Thread Size: ½" NPT (R½)
- K-Factor: 3.0 (Actual) - F1 Res 30 Pendent Sprinkler
  4.9 (Actual) - F1 Res 49 Pendent Sprinkler
  5.8 (Actual) - F1 Res 58 Pendent & HSW/HSWX Sprinkler
  7.6 (Actual) - F1 Res 76 Pendent Sprinkler
  4.4 (Actual) - F1 Res 44 HSW Sprinkler
- Density: Minimum 0.10 gpm/ft²

Application

Model F1 Res Sprinklers are used for Residential Fire Protection according to UL 1626 Standard. Be sure that orifice size, temperature rating, deflector style and sprinkler type are in accordance with the latest published standards of The National Fire Protection Association or the approving authority having jurisdiction.

When using F1 Residential Sprinklers for systems designed to NFPA 13D or NFPA 13R, use listed area of coverage and minimum flow and pressure requirements shown in Bulletin 135.

For systems designed to NFPA 13, use information in this bulletin. The number of design sprinklers shall be the most hydraulically demanding sprinklers as required by NFPA 13. Flows and pressures can not be below the baseline flows and pressures.

NFPA 13

For residential sprinkler systems designed to NFPA 13, a minimum density of 0.1 gpm/ft² must be provided over the "design area" that includes the four (4) hydraulically most demanding sprinklers for the actual coverage areas being protected by the 4 sprinklers. The minimum required discharge from each of the four most hydraulically demanding sprinklers shall be the greater of the following:

1. The flow rates given in the Reliable Residential Sprinkler Technical Bulletins referenced in Table A for NFPA 13D and 13R as a function of temperature rating and maximum allowable coverage area (for actual coverage areas less than or between those indicated in the respective technical bulletin, it is required to use the minimum required flow for the next largest coverage area); or
2. A minimum discharge density of 0.1 gpm/ft² applied over the "design area" consisting of the four most hydraulically demanding sprinklers for the actual coverage areas being protected by the four sprinklers. The maximum dimension of the actual coverage area cannot be any greater than the maximum coverage area indicated in the technical bulletins referenced in Table A.

Design Note: Using the $A_s = S \times L$ method to determine the sprinkler protection area of coverage in accordance with NFPA 13, apply the 0.1 gpm/ft² density to this area to determine the minimum required flow. Compare this flow to the minimum 0.05 gpm/ft² cULus Listed flow for the appropriate coverage area in the technical bulletin for the specific residential sprinkler. If the flow stated in the technical bulletin is less than the calculated 0.1 gpm/ft² density flow required, the .1 density flow must then be used in the equation $Q=K\sqrt{P}$, solving for P, to establish the minimum required pressure using the sprinkler K-factor. Note: In many cases the listed flow of individual residential sprinklers may exceed the required minimum 0.05 gpm/ft² density. Reliable has available residential sprinklers with larger K-factors (K=5.8 and K=7.6) that will provide lower pressure demands for 0.1 gpm/ft² densities in NFPA 13 residential applications.

Example No. 1
Room Size= 12 ft x 20 ft (3.6 m x 6.1 m)
Coverage Area= 12 x 20 = 240 ft2 (22.3 m2)
Flow @ 0.10 gpm/ft² density= 240 x 0.10 = 24 gpm
Using an F1 Res 49 Pendent Sprinkler, K=4.9
Pressure= $(24/4.9)^2$ = 24 psi (1.65 bar)
The baseline flow for a 20 ft x 20 ft (6.1 m x 6.1 m) coverage area using the baseline density of 0.05 gpm/ft² will be 20 gpm @ 16.7 psi (75.7 L/min @ 1.14 bar). Therefore, the minimum flow required is 24 gpm @ 24 psi (90.8 L/min @ 1.65 bar).

Example No. 2
Room Size= 8 ft x 20 ft (2.4 m x 6.1 m)
Coverage Area= 8 x 20 = 160 ft² (14.9 m2)
Flow @ 0.10 gpm/ft² density= 160 x 0.10 = 16 gpm
Using an F1 Res 49 Pendent Sprinkler, K=4.9
Pressure= $(16/4.9)^2$ = 10.7 psi (0.74 bar)
The baseline flow for a 20 ft x 20 ft (6.1 m x 6.1 m) coverage area using the baseline density of 0.05 gpm/ft² will be 20 gpm @ 16.7 psi (75.7 L/min @ 1.14 bar). Therefore, the minimum flow required is 20 gpm @ 16.7 psi (75.7 L/min @ 1.14 bar).

Example No. 3
Room Size= 10 ft x 16 ft (3.0 m x 4.91 m)
Coverage Area= 10 x 16 = 160 ft2 (14.9 m²)
Flow @ 0.10 gpm/ft² density= 160 x 0.10 = 16 gpm
Using an F1 Res 76 Pendent Sprinkler, K=7.6
The baseline flow for a 16 ft x 16 ft coverage area is 21 gpm @ 7.6 psi (79.5 L/min @ 0.52 bar). Therefore, the minimum flow and pressure is 21 gpm @ 7.6 psi (79.5 L/min @ 0.52 bar).

Example No. 4
Room Size= 14 ft x 18 ft (4.3 m x 5.5 m)
Coverage Area= 14 x 18 = 252 ft² (23.6 m2)
Flow @ 0.10 gpm/ft² density= 252 x 0.10 = 25.2 gpm (94.6 L/min)
Using an F1 Res 76 Pendent Sprinkler, K=7.6
Pressure= $(252/7.6)^2$ = 11 psi (0.76 bar)
The baseline flow and pressure of an 18 ft x 18 ft coverage area is 21 gpm @ 7.6 psi (79.5 L/min @ 0.52 bar). Therefore, the minimum flow and pressure is 25.2 gpm @ 11 psi (94.6 L/min @ 0.76 bar).

In general residential sprinklers require flows and pressures as listed for 0.05 densities to achieve the proper spray pattern so the flows and pressures at 0.05 density are the baseline flows and pressures. Flows and pressures below the listed 0.05 density shall not be used.

Installation

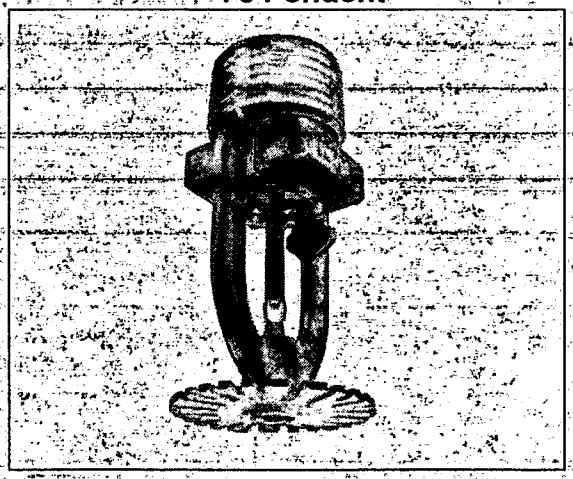
Models F1 Res sprinklers are to be installed as shown. Model F1, F2 and FP Escutcheons, illustrated herewith, are the only recessed escutcheons to be used with Model F1 Res sprinklers. Use of any other recessed escutcheon will void all approvals and warranties. For installing Model F1 Res Pendent sprinklers use only the Model D sprinkler Wrench; for installing Models F1 Res Recessed Pendent, CCP sprinklers use only the Model GFR2 sprinkler wrench; for installing Model F1 Res recessed HSW sprinklers use only the Model GFR2 Sprinkler wrench. Use of wrenches other than those specified may damage these sprinklers.

Note: A "leak tight" sprinkler joint can be obtained with the following torque:

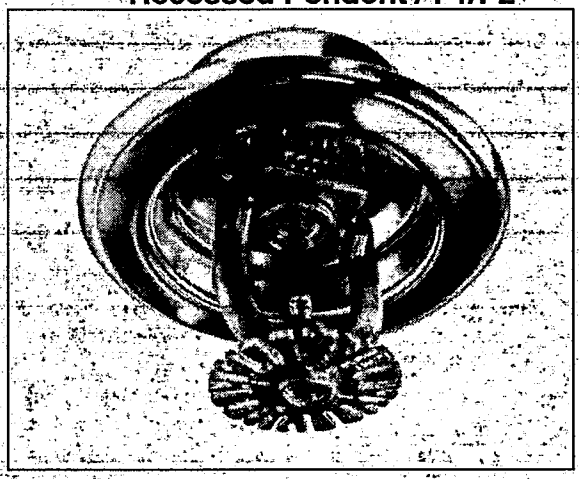
- ¾" NPT (R¾) – 14-20 ft-lbs (19 – 27.1 N-m)
- ½" NPT (R½) – 8-18 ft-lbs (10.8 – 24.4 N-m)

Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of the sprinklers.

- **Model F1 Res 30, 49, 58 & 76 Pendent**



- **Model F1 Res 30, 49, 58 & 76 Recessed Pendent / F1/F2**



F1 escutcheon, ¾" (19mm) adjustment

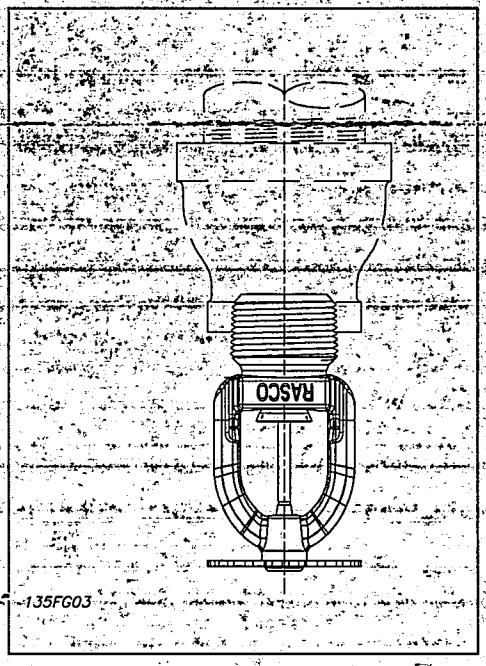


Fig. 1

Note: See escutcheon table for dimensions.

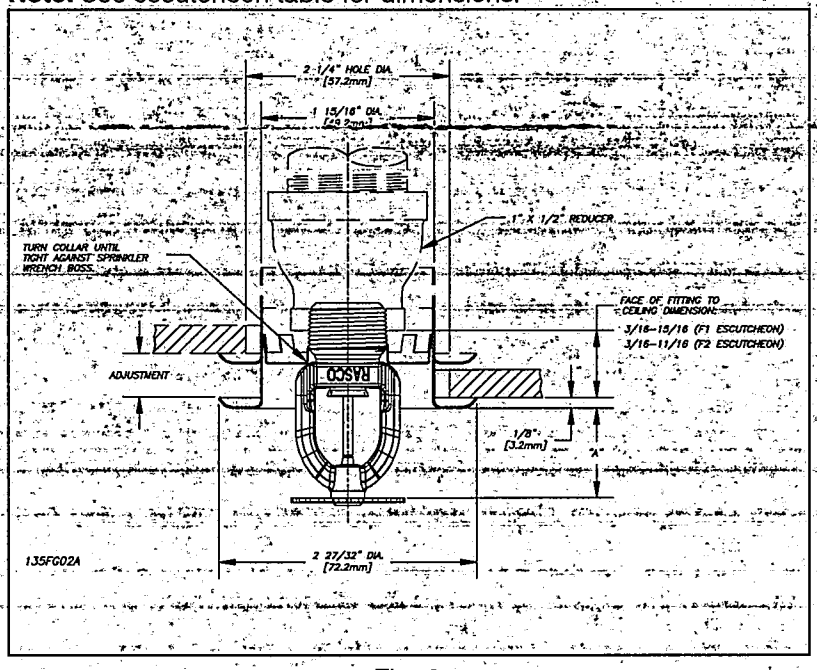


Fig. 2

Technical Data: F1Res 30 Pendent and Recessed Pendent (SIN R3511)

Thread Size	Nominal Orifice Inch (mm)	Max. Pressure psi (bar)	Sprinkler Temp. Rating °F	Sprinkler Temp. Rating °C	Max. Ambient Temp. °F	Max. Ambient Temp. °C	Actual K Factor	Sprinkler Length Inch (mm)
½" NPT (R½)	21/64" (8.2)	175 (12)	155 175	68 79	100	38	3.0	2.25 (57)

**Baseline flows and pressures for 0.05 density

Max. Coverage area Ft x Ft (m x m)	Max. Spacing Ft (m)	Ordinary Temp. Rating (155°F/68°C) Flow GPM (L/min)	Ordinary Temp. Rating (155°F/68°C) Pressure PSI (bar)	Intermediate Temp. Rating (175°F/79°C) Flow GPM (L/min)	Intermediate Temp. Rating (175°F/79°C) Pressure PSI (bar)	Top of Deflector to Ceiling Inch (mm)	Minimum Spacing Ft (m)
12 x 12 (3,6 x 3,6)	12 (3,6)	8 (30,3)	7.0 (0,48)	8 (30,3)	7.0 (0,48)	1 to 4 (25 to 100); ½ recessed using F2 escutcheon	8 (2,4)
14 x 14 (4,3 x 4,3)	14 (4,3)	10 (37,8)	11 (0,76)	10 (37,8)	11 (0,76)		

For Ceiling types refer to NFPA 13, 13R or 13D

**Calculate for a .10 density but in no case go below the baseline flows & pressures

Technical Data: F1 Res 49 Pendent and Recessed Pendent

Thread Size	Nominal Orifice Inch (mm)	Sprinkler Temp. Rating °F	Sprinkler Temp. Rating °C	Max. Pressure psi (bar)	Max. Ambient Temp. °F	Max. Ambient Temp. °C	Actual K Factor	Sprinkler Length Inch (mm)
½" NPT (R½)	7/16" (11)	155 175	68 79	175 (12)	100 150	38 66	4.9	2.25 (57)

**Baseline flows and pressures for 0.05 density

Deflector - to - ceiling
Maximum 1" (25mm) to 4" (100mm)

Max. Sprinkler Spacing ft (m)	Flow gpm (Lpm)	Pressure psi (bar)	Sprinkler Identification Number (SIN)
12 x 12 (3.6x3.6)	13 (49)	7.0 (0.48)	R3516
14 x 14 (4.3x4.3)	13 (49)	7.0 (0.48)	
16 x 16 (4.9x4.9)	13 (49)	7.0 (0.48)	
18 x 18 (5.5x5.5)	17 (64.3)	12.0 (0.83)	
20 x 20 (6.1x6.1)	20 (75.7)	16.7 (1.14)	

Escutcheon*, F1 or F2, Data:

Type	Adjustment Inch (mm)	"A" Inch (mm)	Face of fitting to ceiling Inch (mm)
F1	¾" (19.0)	Min.= ¾ (19.1)" Max.= 1½ (38.1)	3/16 - 15/16 (4.7 - 24.0)
F2	½" (12.7)	Min.= 15/16 (23.8) Max.= 1½ (38.1)	3/16 - 11/16 (4.7 - 17.4)

***Note:** Escutcheons F1 or F2 may be used with Model F1 Res 49 & 58 Recessed Pendent Sprinkler

*Deflector - to - ceiling
Maximum 4" (100mm) to 8" (203mm)

Max. Sprinkler Spacing ft (m)	Flow gpm (Lpm)	Pressure psi (bar)	Sprinkler Identification Number (SIN)
12 x 12 (3.6x3.6)	15 (57)	9.4 (0.65)	R3516
14 x 14 (4.3x4.3)	16 (60.5)	10.6 (0.73)	
16 x 16 (4.9x4.9)	17 (64.3)	12.0 (0.83)	
18 x 18 (5.5x5.5)	19 (72)	15.0 (1.0)	
20 x 20 (6.1x6.1)	22 (83.2)	20.2 (1.4)	

***Note:** The F1 Res 49 pendent and recessed pendent residential sprinklers can be installed per NFPA 13 in beamed ceilings meeting the following criteria:
1. Maximum beam depth = 7" (178mm)
2. Beam spacing at or greater than 7.5 ft. (2.3m) on center.

Technical Data: F1 Res 58 Pendent and Recessed Pendent

Thread Size	Nominal Orifice Inch (mm)	Sprinkler Temp. Rating °F	Sprinkler Temp. Rating °C	Max. Pressure psi (bar)	Max. Ambient Temp. °F	Max. Ambient Temp. °C	K Factor	Sprinkler Length Inch (mm)
½" NPT (R½)	½" (13)	155 175	68 79	175 (12)	100 150	38 66	5.8	2.25 (57)

**Baseline flows and pressures for 0.05 density

Max. Sprinkler Spacing ft (m)	Flow gpm (Lpm)	Pressure psi (bar)	Ceiling -to-Deflector Inch (mm)	Sprinkler Identification Number (SIN)
12 x 12 (3.6x3.6)	16 (61)	7.6 (0.53)	1-4 (25-100)	R3513
14 x 14 (4.3x4.3)	16 (61)	7.6 (0.53)		
16 x 16 (4.9x4.9)	16 (61)	7.6 (0.53)		
18 x 18 (5.5x5.5)	19 (72)	10.8 (0.75)		
20 x 20 (6.1x6.1)	22 (83.3)	14.4 (1.0)		

**Calculate for a .10 density but in no case go below the baseline flows & pressures

Reliable®

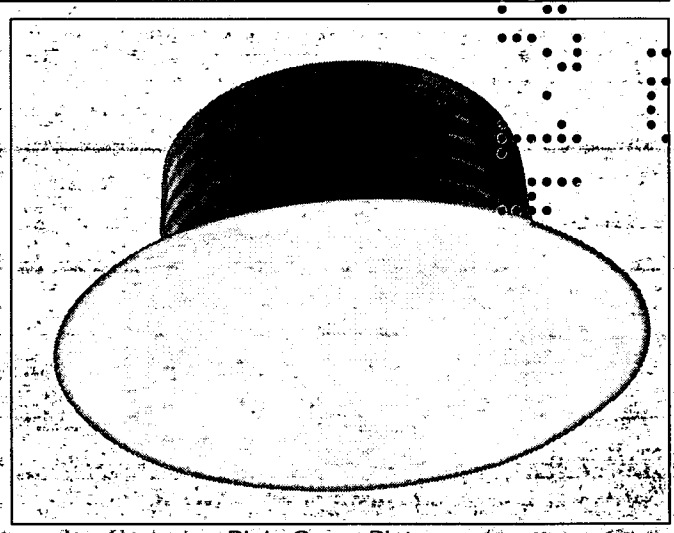
Model RFC30 (SIN RA0611)
Model RFC43 (SIN RA0612).
Model RFC49 (SIN RA0616)
Residential Flat Concealed Sprinklers

Bulletin 006 Rev. I

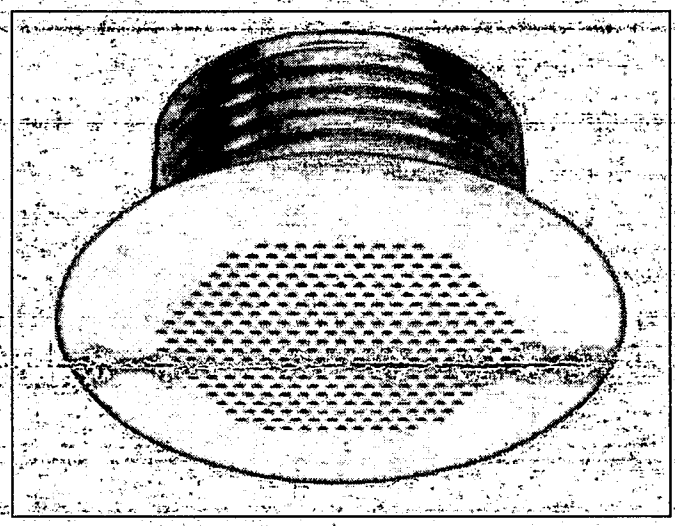
A Residential Flat Concealed Sprinkler engineered for a minimum design density of 0.05 gpm/ft² with low GPM requirements.

Features

1. Very low water flow requirements.
2. Cover plate attachment (Plain or Perforated) with ½" (13mm) Total adjustment.
3. Thread-On/Thread-Off, or, Push-On/Thread Off cover attachment option.
4. Smooth aesthetic ceiling profile.
5. Available in brass, chrome and black plated or painted finishes.



Plain Cover Plate



Perforated Cover Plate

Listings & Approval

1. Listed by Underwriters Laboratories, and certified by UL for Canada (cULus)

UL Listing Categories

Residential Automatic Sprinklers

UL Guide Number

VKKW

Product Description

Model RFC30, RFC43 and RFC49 Concealed Residential Sprinklers are fast response residential fusible solder link automatic sprinklers. Residential sprinklers differ from standard sprinklers primarily in their response time and water distribution patterns.

Model RFC30, RFC43 and RFC49 sprinklers discharge water in a hemispherical pattern below the sprinkler deflector. Residential distribution patterns are higher and generally contain a finer droplet size than standard sprinkler patterns.

The combination of speed of operation and high discharge pattern required for residential sprinklers has demonstrated, in fire testing, an ability for controlling residential fires, and thereby providing significant evacuation time for occupants.

The RFC30, RFC43 and RFC49 Sprinklers provide the best form of fire protection by combining an attractive appearance and ½" (13mm) of cover adjustment for ease of installation. The small diameter cover plate is easily and positively attached and blends into the ceiling, concealing the most dependable fire protection available, an automatic sprinkler system.

The RFC30, RFC43 and RFC49 are UL Listed Residential Sprinklers to be installed in the residential portions of any occupancy in accordance with NFPA 13, 13R, & 13D.

The RFC30, RFC43 and RFC49 can reduce the need for precise cutting of drop nipples. The threaded cover plate assembly can be adjusted without tools to fit accurately against the ceiling. The fire protection system need not be shut down to adjust or remove the cover plate assembly.

Reliable Automatic Sprinkler Co., Inc., 103 Fairview Park Drive, Elmsford, New York 10523

Application and Installation

The RFC30, RFC43 and RFC49, for residential installations, use a 165°F (74°C) fusible solder link in a tuning fork style sprinkler frame with a drop-down deflector. This assembly is recessed into the ceiling and concealed by a flat cover plate. The cover plate is attached to the skirt, using 135°F (57°C) ordinary temperature classification solder. When the ceiling temperature rises, the solder holding the cover plate releases the cover allowing the deflector to drop into position and exposing the sprinkler inside to ceiling temperature. The subsequent operation of the solder link opens the waterway and causes the deflector to drop into position to distribute the discharging water in a hemispherical pattern below the sprinkler deflector. Any adjustment of thread engagement between the cover plate and cup will assure that the drop-down deflector is properly located below the ceiling. The residential distribution pattern contains a finer droplet size than a standard sprinkler, and the pattern produces significantly higher wall wetting.

After a 2⅝ inch diameter hole is cut in the ceiling, the sprinkler is to be installed with the Model FC Wrench. When installing a sprinkler, the wrench is first positioned into the sprinkler/cup assembly and around the hexagonal body of the sprinkler frame. The Wrench must bottom out against the cup in order to ensure proper, safe installation. The sprinkler is then tightened into the pipe fitting.

When inserting or removing the wrench from the sprinkler/cup assembly, care should be taken to prevent damage to the sprinkler. DO NOT WRENCH ON ANY OTHER PART OF THE SPRINKLER/CUP ASSEMBLY. MODEL RFC30, RFC43 AND RFC49 CONCEALED SPRINKLERS MUST BE INSTALLED ONLY WITH 135°F RATED COVERS.

Note: A leak tight ½" NPT (R1/2) sprinkler joint can be obtained with a torque of 8-18 ft-lbs (10,8 - 24,4 N-m). Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of the sprinkler.

Cover assemblies provide up to ½" (13mm) of adjustment. Turn the cover clockwise until the flange is in contact with the ceiling. For the push-on/thread-off option, the cover assembly is pushed onto the cup and final adjustment is made by turning the cover clockwise until the skirt flange makes full contact with the ceiling. Cover removal requires turning in the counter-clockwise direction.

In ceilings that have a plenum space above the sprinkler, the plenum space may have neutral or negative pressurization but must not be positively pressurized. Inspect all sprinklers after installation to ensure that the gap between the cover plate and ceiling and the 4 slots in the cup are all open and free from any air flow impediment.

Model (SIN)	Thread Size Inch (mm)	Nominal Orifice Inch (mm)	Sprinkler Temp Rating		CCP Assembly Temp. Rating		Max. Ambient Temp.		K Factor	Max. Pressure psi (bar)
			°F	°C	°F	°C	°F	°C		
RFC 30 (RA0611)	½" (15)	21/64 (8,2)	165	74	135	57	100	38	3.0 (43.2)	175 (12)
RFC 43 (RA0612)	½" (15)	⅜ (10)	165	74	135	57	100	38	4.3 (62)	175 (12)
RFC 49 (RA0616)	½" (15)	7/16 (11)	165	74	135	57	100	38	4.9 (70.6)	175 (12)

Note: 1 bar = 100 Kpa

RFC 30

Max. Coverage area Ft x Ft (m x m)	Max. Spacing Ft (m)	Ordinary Temp. Rating (165°F/74°C)		Top of Deflector to Ceiling Inch (mm)	Installation Type	Minimum Spacing Ft (m)
		Flow GPM (L/min)	Pressure PSI (bar)			
12 x 12 (3,6 x 3,6)	12 (3,6)	9 (34,1)	9.0 (0,62)	Smooth Ceilings ½ to 1 (13 to 25.4) Beamed Ceilings per NFPA 13D, 13R or 13 installed in beams ½ to 1 (13 to 25.4)	Concealed	8 (2,4)
14 x 14 (4,3 x 4,3)	14 (4,3)	10 (37,8)	11.0 (0,76)			

For Ceiling types refer to NFPA 13, 13R or 13D

RFC 43

Max. Coverage area Ft x Ft (m x m)	Max. Spacing Ft (m)	Ordinary Temp. Rating (165°F/74°C)		Top of Deflector to Ceiling Inch (mm)	Installation Type	Minimum Spacing Ft (m)
		Flow GPM (L/min)	Pressure PSI (bar)			
12 x 12 (3,6 x 3,6)	12 (3,6)	12 (4,5)	7.8 (0,54)	Smooth Ceilings ½ to 1 (13 to 25.4) Beamed Ceilings per NFPA 13D, 13R or 13 installed in beams ½ to 1 (13 to 25.4)	Concealed	8 (2,4)
14 x 14 (4,3 x 4,3)	14 (4,3)	13 (49)	9.1 (0,63)			
16 x 16 (4,9 x 4,9)	16 (4,9)	13 (49)	9.1 (0,63)			
18 x 18 (5,5 x 5,5)	18 (5,5)	18 (68)	17.5 (1,21)			
20 x 20 (6,1 x 6,1)	20 (6,1)	21 (79)	23.8 (1,64)			

For Ceiling types refer to NFPA 13, 13R or 13D

RFC 49

Max. Coverage area Ft x Ft (m x m)	Max. Spacing Ft (m)	Ordinary Temp. Rating (165°F/74°C)		Top of Deflector to Ceiling Inch (mm)	Installation Type	Minimum Spacing Ft (m)
		Flow GPM (L/min)	Pressure PSI (bar)			
12 x 12 (3,6 x 3,6)	12 (3,6)	13 (49)	7.0 (0,48)	Smooth Ceilings ½ to 1 (13 to 25.4) Beamed Ceilings per NFPA 13D, 13R or 13 installed in beams ½ to 1 (13 to 25.4)	Concealed	8 (2,4)
14 x 14 (4,3 x 4,3)	14 (4,3)	13 (49)	7.0 (0,48)			
16 x 16 (4,9 x 4,9)	16 (4,9)	13 (49)	7.0 (0,48)			
18 x 18 (5,5 x 5,5)	18 (5,5)	17 (64,3)	12.0 (0,83)			
20 x 20 (6,1 x 6,1)	20 (6,1)	20 (75,73)	16.7 (1,14)			

For Ceiling types refer to NFPA 13, 13R or 13D

Maintenance

Model RFC30, RFC43 and RFC49 Concealed Sprinklers should be inspected and the sprinkler system maintained in accordance with NFPA 25. Do not clean sprinklers with soap and water, ammonia or any other cleaning fluids. Remove dust by using a soft brush or gentle vacuuming. Remove any sprinkler cover plate assembly which has been painted (other than factory applied) or damaged in any way. A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers. Prior to installation, sprinklers should be maintained in the original cartons and packaging until used to minimize the potential for damage to sprinklers that would cause improper operation or non-operation.

Model RFC30, RFC43 and RFC49 Residential Concealed Sprinkler Specification

Sprinklers shall be cULus Listed low flow residential concealed sprinklers with drop-down deflector and adjustable flat cover plate engineered for a minimum design density of 0.05 gpm/ft². Sprinkler frame and deflector shall be of bronze frame construction having a ½" NPT thread. Thermal element shall consist of an approved black-painted beryllium-nickel fusible solder link with symmetric lever mechanism, maintaining a Teflon-coated Belleville spring washer and machined brass cap water seal assembly containing no plastic parts. Sprinkler K-factor shall be nominal 3.0 (43.2), 4.3 (62), and 4.9 (70.6) having a 5/16", 3/8" and 7/16" orifice. Temperature rating shall be Ordinary 165°F (74°C); cover plate temperature rating to be 135°F (57°C). Cover plate assembly shall consist of a brass cover plate and copper alloy retainer flange allowing a ½" cover plate adjustment. Any secure engagement between the cover plate and the cup will assure that the drop-down deflector is properly located below the ceiling. A plastic protective cap shall be provided and factory installed inside the sprinkler cup to protect the drop-down sprinkler deflector from damage, which could occur during construction before the cover plate is installed. Standard cover finish: [Chrome] [White] [Specialty – specify]. Residential concealed sprinklers shall be Reliable Model RFC30, SIN RA0611 (Bulletin 006), Model RFC43, SIN RA0612 (Bulletin 006) or Model RFC49, SIN RA0616 (Bulletin 006).

Ordering Information

Specify:

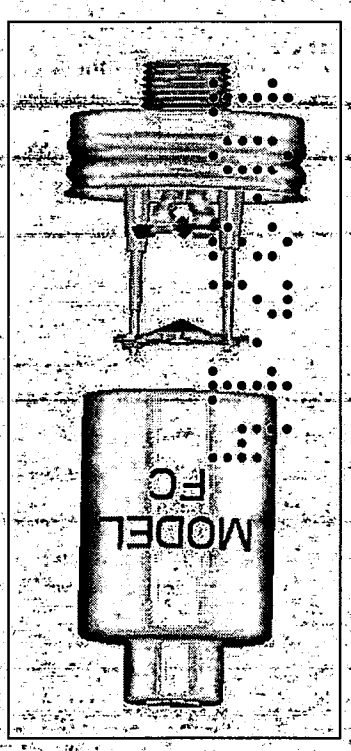
1. Sprinkler Model
2. Cover Plate Finish
3. Thread-On or Push-On Feature

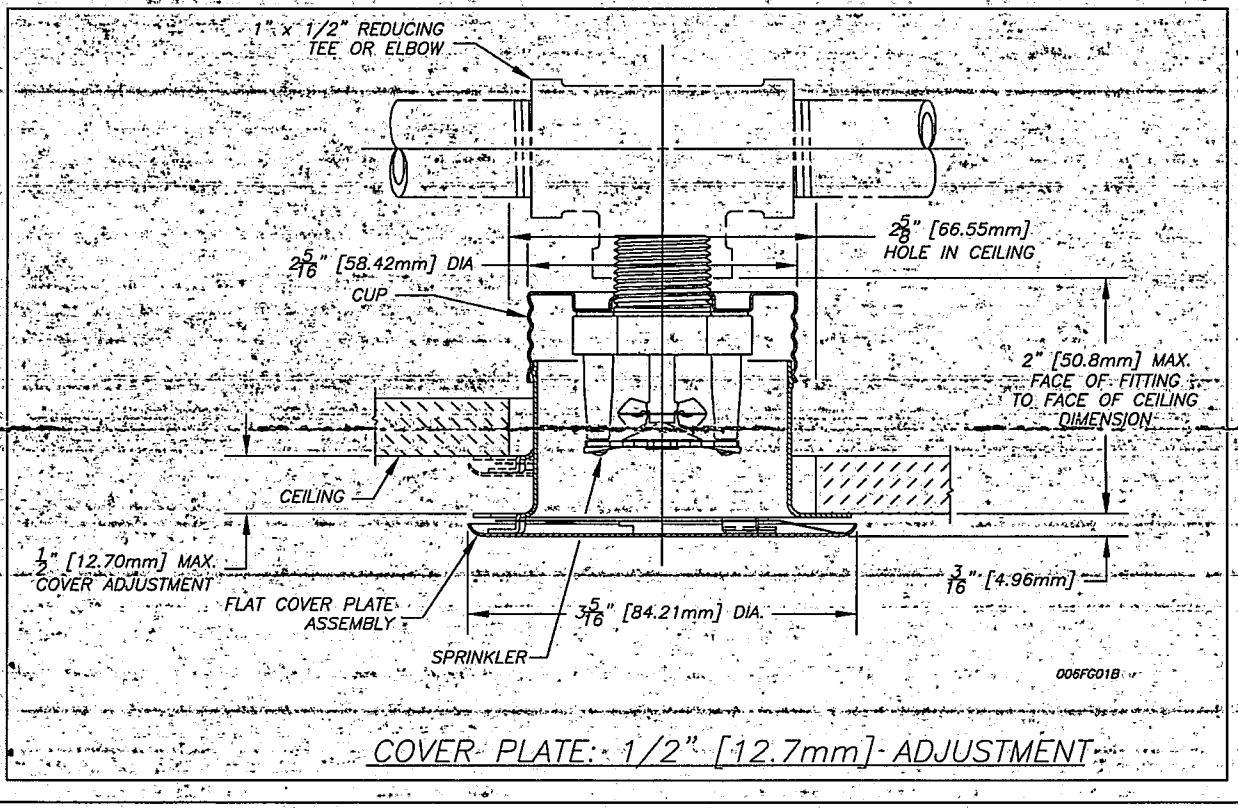
Cover Plate Finishes[1]

Standard Finishes
Chrome
White Paint
Special Application Finishes[2]
Bright Brass
Finished Bronze
Black Plating
Black Paint
Off White
Satin Chrome

[1] Other finishes and colors are available on special order. Consult factory for details. Coverplate custom paint is semi-gloss, unless specified otherwise.

[2] For the perforated style coverplate, consult factory for availability on these and other custom finishes.





COVER PLATE: 1/2" [12.7mm] ADJUSTMENT

The equipment presented in this bulletin is to be installed in accordance with the latest published Standards of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable. Products manufactured and distributed by Reliable have been protecting life and property for over 90 years, and are installed and serviced by the most highly qualified and reputable sprinkler contractors located throughout the United States, Canada and foreign countries.

Manufactured by

Reliable®

Reliable Automatic Sprinkler Co., Inc.
(800) 431-1588 Sales Offices
(800) 848-6051 Sales Fax
(914) 829-2042 Corporate Offices
www.reliablesprinkler.com Internet Address

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Revision lines indicate updated or new data.

EG. Printed in U.S.A. 06/14 P/N 9999970261

Reliable®

Model F1FR Series
Quick Response
Standard Spray

Bulletin 014 Rev. L

Model F1FR56 Sprinkler Types
Standard Upright
Standard Pendent
Conventional
Vertical Sidewall
Horizontal Sidewall

Model F1FR56 Recessed Sprinkler Types
Standard Pendent/F1/F2/FP
Horizontal Sidewall

Model F1FR56 Concealed Sprinkler Types
Standard Pendent

Model F1FR42, F1FRXLH & F1FR28 Sprinkler Types
Standard Upright
Standard Pendent

Model F1FR42, F1FRXLH & F1FR28 Recessed Sprinkler Types
Standard Pendent

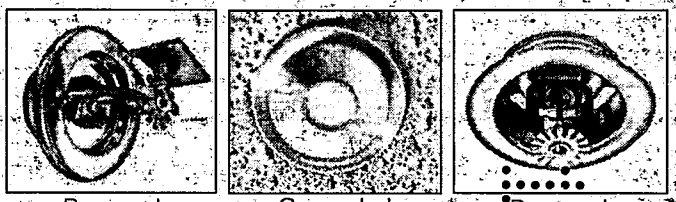
Model F1FR56LL & F1FR42LL Low Lead Sprinkler Types*
Standard Pendent
Less than 0.25% Lead Content

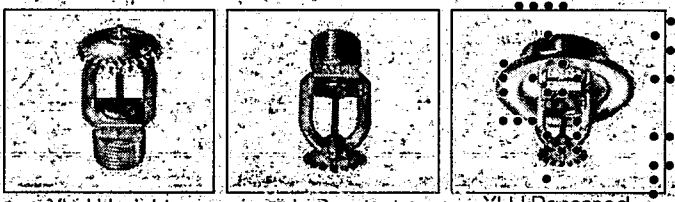
Listing & Approvals
1. Underwriters Laboratories Inc. and Certified for Canada (cULus)
2. Factory Mutual Approvals (FM)
3. Loss Prevention Council (LPCB, UK)
4. VdS Schadenverhütung GmbH
5. *NSF Certified to NSF/ANSI Standard 61 Annex G
6. EC Certificate: 0786-CPD-40239 (RA1414), 0786-CPD-40251 (RA1425), 0786-CPD-40252 (RA1475)

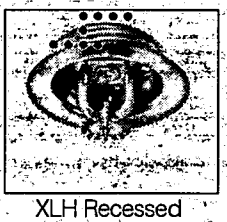
UL Listing Category
Sprinklers, Automatic & Open (VNIV)
Quick Response Sprinkler


Upright | Pendent | Conventional


Vertical Sidewall | Horizontal Sidewall | Recessed Pendent/F1/F2


Recessed Horizontal Sidewall | Concealed Pendent | Recessed Pendent/FP


XLH Upright | XLH Pendent | XLH Recessed Pendent F1/F2


XLH Recessed Pendent FP

Product Description
Reliable Models F1FR56, F1FR56LL, F1FR42, F1FR42LL, F1FRXLH & F1FR28 Series Sprinklers are quick response sprinklers which combine the durability of a standard sprinkler with the attractive low profile of a decorative sprinkler.

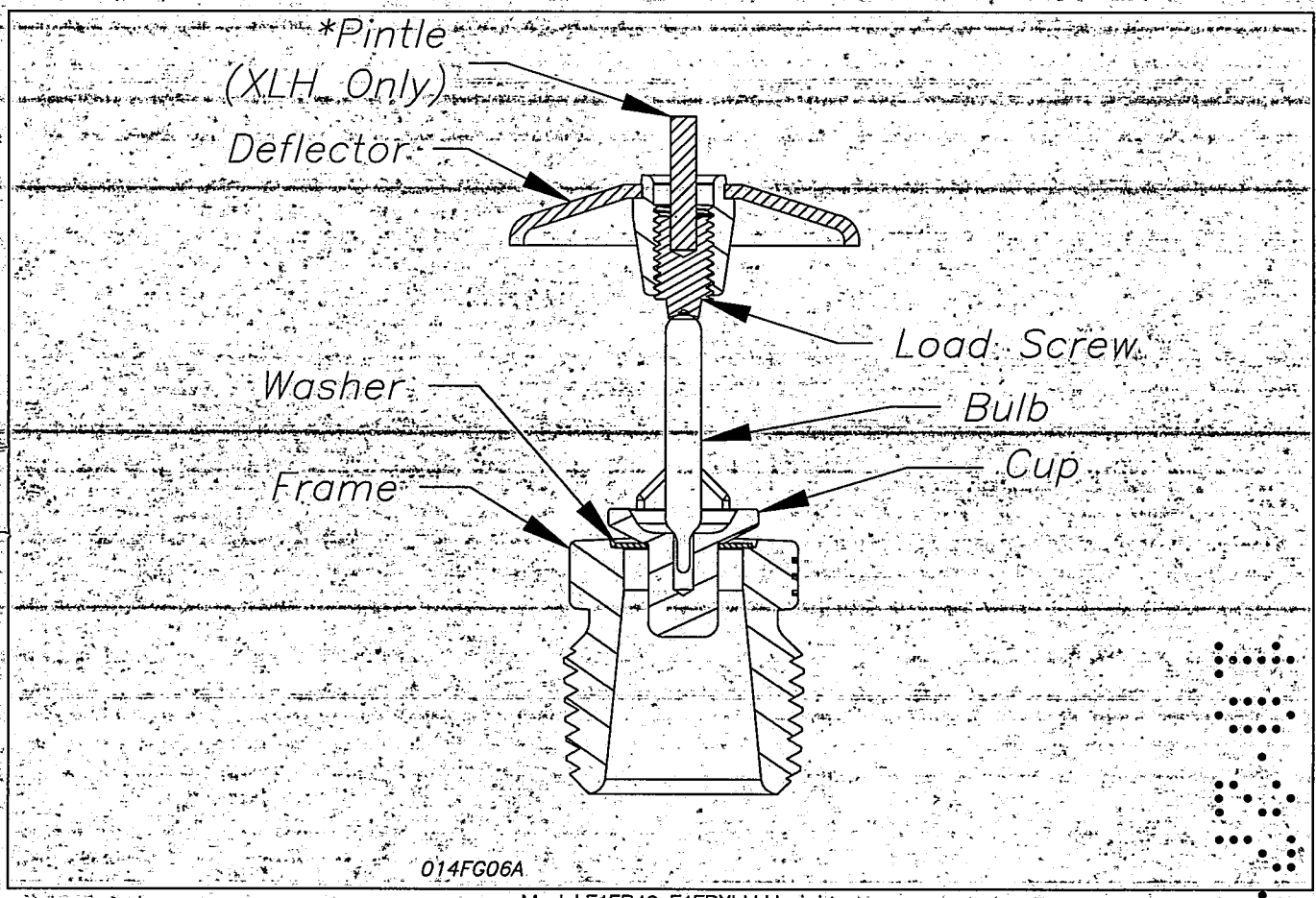
The Models F1FR56, F1FR56LL, F1FR42, F1FR42LL, F1FRXLH & F1FR28 Series Recessed automatic sprinklers utilize a 3.0 mm frangible glass bulb. These sprinklers have demonstrated response times in laboratory tests which are five to ten times faster than standard response sprinklers. This quick response enables the Model F1FR56, F1FR56LL, F1FR42, F1FR42LL, F1FRXLH & F1FR28 Series sprinklers to apply water to a fire much faster than standard sprinklers of the same temperature rating.

The glass bulb consists of an accurately controlled amount of special fluid hermetically sealed inside a precisely manufactured glass capsule. This glass bulb is specially constructed to provide fast thermal response.

At normal temperatures, the glass bulb contains the fluid in both the liquid and vapor phases. The vapor phase can be seen as a small bubble. As heat is applied, the liquid expands, forcing the bubble smaller and smaller as the liquid pressure increases. Continued heating forces the liquid to push out against the bulb, causing the glass to shatter, opening the waterway and allowing the deflector to distribute the discharging water.

Application

Quick response sprinklers are used in fixed fire protection systems: Wet, Dry, Deluge or Preaction. Care must be exercised that the orifice size, temperature rating, deflector style and sprinkler type are in accordance with the latest published standards of the National Fire Protection Association or the approving Authority Having Jurisdiction. Quick response sprinklers are intended for installation as specified in NFPA 13. Quick response sprinklers and standard response sprinklers should not be intermixed.



Model F1FR42, F1FRXLH Upright

Technical data:

Models	Discharge Coefficient	Response	Thread Size	Max. Working Pressure	Min. Working Pressure	Temperature Rating	Finish
F1FR56 **F1FR56LL[1]	K 5.6	Quick Response	1/2" NPT (R1/2)	175 PSI	7 PSI	See "Temperature Ratings" Table.	See "Finish Table"
F1FR42 **F1FR42LL[1] F1FRXLH	K 4.2						
F1FR28	K 2.8						

[1] Low Lead Sprinklers available only with Temperature Rating 200°F/93°C

Material Data:

Frame	Deflector	Load Screw	*Pintle	Cup	Washer	Bulb
DZR Brass QM Brass **Low Lead Brass	CDA Alloy 260, CDA Alloy 220 or CDA Alloy510	CDA Alloy 360 or CDA Alloy 544	CDA Alloy 360 or CDA Alloy 544	CDA Alloy 651 or CDA Alloy 693	Nickel Alloy 440 or Alloy 360 coated with PTFE Adhesive Tape	Glass

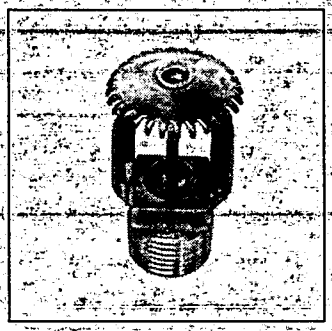
Model F1FR56, Upright, Pendent & Conventional Sprinklers
Model F1FR42, F1FRXLH & F1FR28 Upright & Pendent Sprinklers

Installation Wrench: Model D Sprinkler Wrench

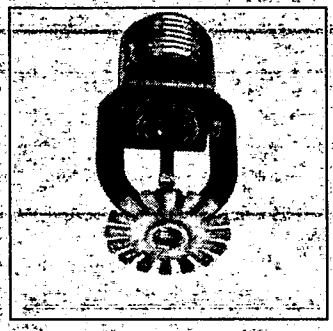
Installation Data:

Nominal Orifice	Thread	Nominal K Factor		Sprinkler	Approval	Sprinkler Identification Number (SIN)	
	Size	US	Metric	Height	Organization	Upright	Pendent
Standard-Upright (SSU) and Pendent Deflectors Marked to Indicate Position							
1/2" (15mm) [1]	1/2" NPT (R1/2)	5.6	80	2.25" (57mm)	1, 2, 3, 4, 6	RA1425[1][2][3][4]	RA1414[1][2][3][4]
7/16" (10mm)	1/2" NPT (R1/2)	4.2	60	2.25" (57mm)	1	RA1423[1][4]	RA1413[4]
3/8" (10mm)	1/2" NPT (R1/2)	2.8	40	2.25" (57mm)	1	RA1421[1][4]	RA1411[4]
Conventional-Install in Upright or Pendent Position							
15mm [1]	1/2" NPT (R1/2)	5.6	80	57mm	3, 4, 6	RA1475[3]	

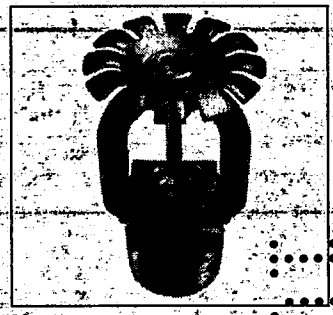
[1] cULus listed corrosion resistant (Polyester coated) sprinkler.
[2] Polyester coated FM approved sprinkler.
[3] Polyester coated LPCB & VdS approved sprinkler RA1425, RA1414 & RA1475.
[4] Electroless Nickel PTFE (Teflon®)* Plated - cULus listed Corrosion Resistant



Upright



Pendent



Conventional

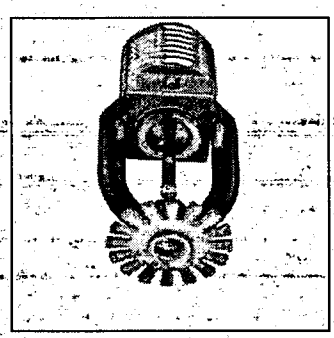
Model F1FR56LL & F1FR42LL Pendent Sprinklers

Installation Wrench: Model D Sprinkler Wrench

Installation Data:

Nominal Orifice	Thread	Nominal K Factor		Sprinkler	Approval	Sprinkler Identification Number (SIN)
	Size	US	Metric	Height	Organization	Pendent
Standard-Pendent Deflectors Marked to Indicate Position						
1/2" (15mm) [1]	1/2" NPT (R1/2)	5.6	80	2.25" (57mm)	1, 5	RA1415
7/16" (11mm)	1/2" NPT (R1/2)	4.2	60	2.25" (57mm)	1, 5	RA1410

[1] cULus listed corrosion resistant (Polyester coated) sprinkler.



*DuPont Registered Trademark

Model F1FR56, F1FR42, F1FRXLH & F1FR28 Quick Response Recessed Pendent Sprinkler[1]

Installation Wrench: Model GFR2 Sprinkler Wrench

Installation Data:

Nominal Orifice	Thread Size	K Factor		Sprinkler Height	Sprinkler Identification Number (SIN)
		US	Metric		
1/2" (15mm)	1/2" NPT(R½)	5.6	80	2.25" (57mm)	RA1414
7/16" (10mm)	1/2" NPT (R1/2)	4.2	60	2.25" (57mm)	RA1413
3/8" (10mm)	1/2" NPT (R1/2)	2.8	40	2.25" (57mm)	RA1411

[1] Refer to escutcheon data table for approvals & dimensions

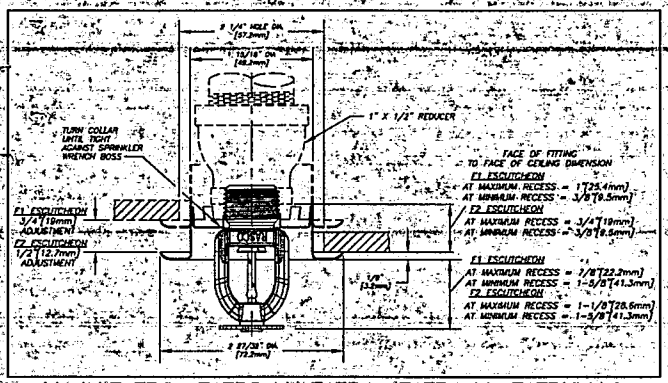
Model F1FR56LL & F1FR42LL Quick Response Recessed Pendent Sprinkler[1]

Installation Wrench: Model GFR2 Sprinkler Wrench

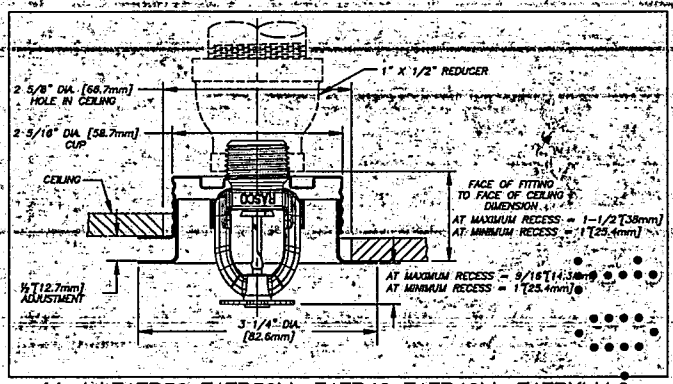
Installation Data:

Nominal Orifice	Thread Size	K Factor		Sprinkler Height	Sprinkler Identification Number (SIN)
		US	Metric		
1/2" (15mm)	1/2" NPT(R½)	5.6	80	2.25" (57mm)	RA1415
7/16" (10mm)	1/2" NPT (R1/2)	4.2	60	2.25" (57mm)	RA1410

[1] Refer to escutcheon data table for approvals & dimensions



Model F1FR56, F1FR56LL, F1FR42, F1FR42LL, F1FRXLH & F1FR28 F1 or F2



Model F1FR56, F1FR56LL, F1FR42, F1FR42LL, F1FRXLH & F1FR28 FP

Model F1FR56 Quick Response Vertical Sidewall Sprinkler

Installation Wrench: Model D Sprinkler Wrench

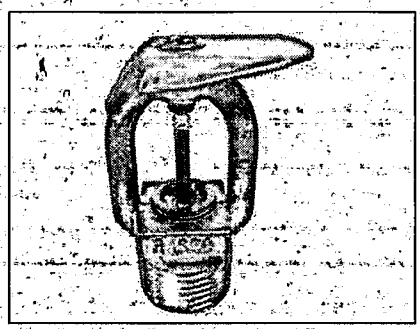
Installation Position: Upright or Pendent

Approval Type: Light Hazard Occupancy

Installation Data:

Nominal Orifice	Thread Size	Nominal K Factor		Sprinkler Height	Approval Organizations	Sprinkler Identification Numbers (SIN)
		US	Metric			
½" (15mm)	½" NPT (R1/2)	5.6	80	2.25" (57mm)	1, 2, 3	RA1485[2][3]
15mm	½" NPT (R1/2)	5.6	80	2.25" (57mm)	3[1]	

[1] LPC Approval is for pendent position only.
[2] cULus Listed corrosion resistant (Polyester coated) sprinkler.
[3] Electroless Nickel PTFE (Teflon®)* Plated - cULus listed Corrosion Resistant



Vertical Sidewall

Sprinkler Type	Deflector to Ceiling Distance (Min. - Max.)
Upright	4" (102mm) - 12" (305mm)
Pendent	4" (102mm) - 12" (305mm)

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Model F1FR56 Quick Response Horizontal Sidewall Sprinkler

Deflector: HSW

Installation Wrench: Model D Sprinkler Wrench

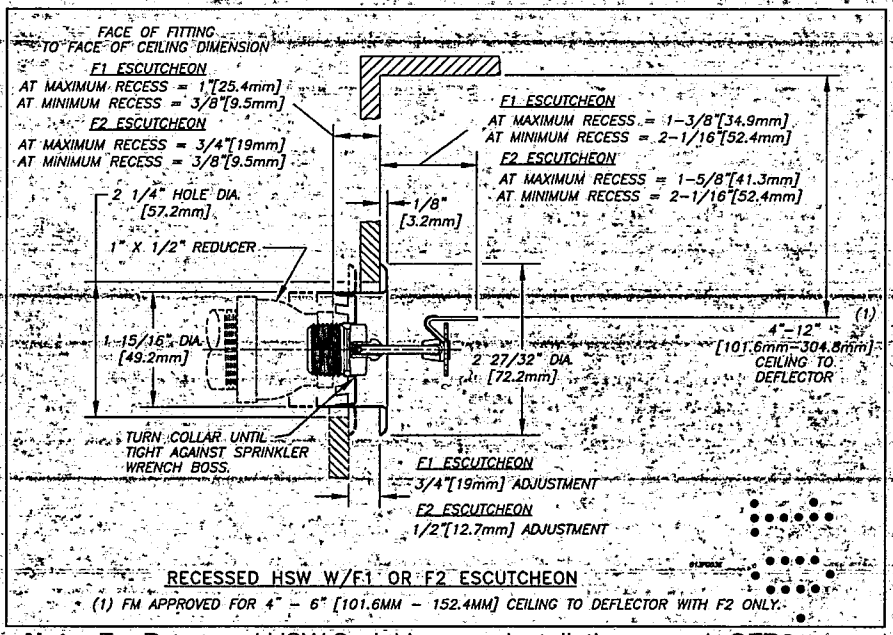
Installation Data: Horizontal Sidewall

Nominal Orifice	Thread Size	Nominal K Factor		Sprinkler Height	Approval Organizations and Type of Approval		Sprinkler Identification Numbers (SIN)
		US	Metric		Light Hazard	Ordinary Hazard	
½" (15mm)	½" NPT (R1/2)	5.6	80	2.63" (67mm)	1, 2	1	RA1435[1][2][3]

[1] cULus Listed corrosion resistant (Polyester coated) sprinkler.
[2] Polyester coated FM approved sprinkler.
[3] Electroless Nickel PTFE (Teflon®)* Plated - cULus listed Corrosion Resistant



Horizontal Sidewall



Note: For Recessed HSW Sprinklers use installation wrench GFR2. cULus permits use with F1, F2 or FP escutcheons for "Light Hazard" only. While FM limits use for the same hazard with the F2 escutcheon only.

Model F1FR56 Quick Response Concealed Pendent Sprinklers

Installation Wrench: Model RC1 Sprinkler Wrench

Technical Data:

Nominal Orifice	"K" Factor		Thread Size	Model	Temp. Rating		Max. Ambient Temp	Bulb Color	Approvals	Sprinkler Identification Number(SIN)
	US	Metric			Sprinkler	Cover				
½" (15mm)	5.6	80	½" NPT	F1FR	135°F/57°C	135°F/57°C	100°F/38°C	Orange	1	RA1414
½" (15mm)	5.6	80	½" NPT	F1FR	155°F/68°C	135°F/57°C	100°F/38°C	Red	1, 4[1], 6	RA1414
½" (15mm)	5.6	80	½" NPT	F1FR	175°F/79°C	165°F/74°C	100°F/38°C	Yellow	1	RA1414
½" (15mm)	5.6	80	½" NPT	F1FR	200°F/93°C	165°F/74°C	150°F/65°C	Green	1	RA1414

[1] For VdS only = 155°F/68°C Norbulb and 1/2" [12,7mm] adjustment.

Model F1FR56LL Quick Response Concealed Pendent Sprinklers

Installation Wrench: Model RC1 Sprinkler Wrench

Technical Data:

Nominal Orifice	"K" Factor		Thread Size	Model	Temp. Rating		Max. Ambient Temp	Bulb Color	Approvals	Sprinkler Identification Number(SIN)
	US	Metric			Sprinkler	Cover				
½" (15mm)	5.6	80	½" NPT	F1FR56LL	200°F/93°C	165°F/74°C	150°F/65°C	Green	1, 5	RA1414

*DuPont Registered Trademark

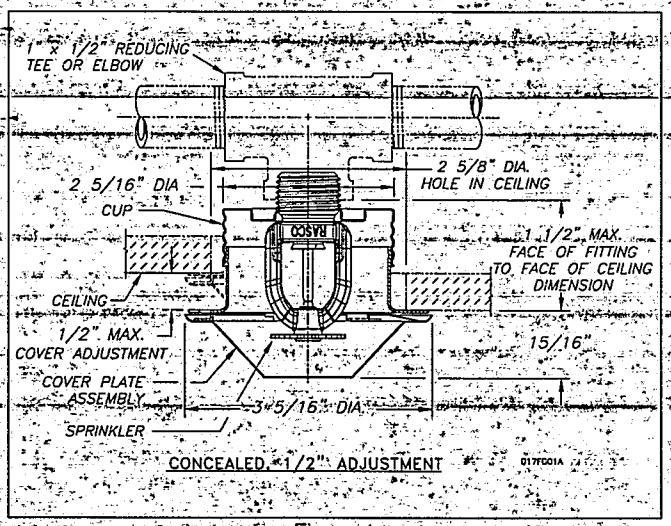


Figure 1

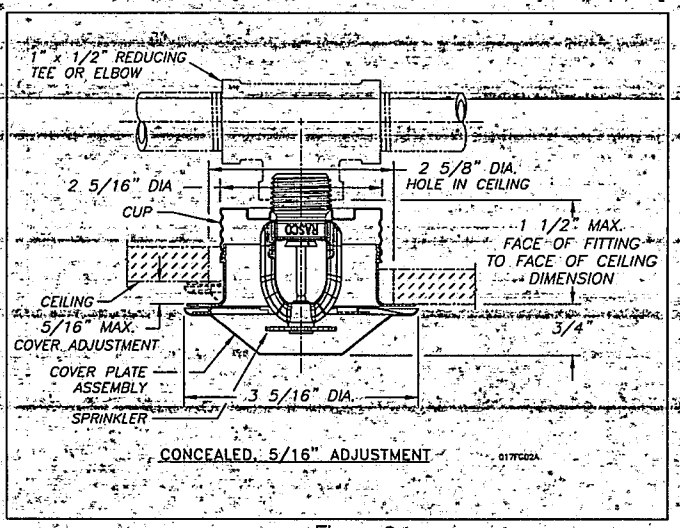


Figure 2

Installation Aid

A protective cap is included for use during installation.

Important: The F1FR56 Sprinkler with Model CCP cover plate is not an FM Approved combination.

Installation

Quick response sprinklers are intended for installation as specified in NFPA 13. Quick response sprinklers and standard response sprinklers should not be intermixed.

The Model F1FR56, F1FR56LL, F1FR42, F1FR42LL, F1FRXLH & F1FR28 Recessed Quick Response Sprinklers are to be installed as shown. The Model F1 or F2 Escutcheons illustrated are the only recessed escutcheons to be used with the Model F1FR56, F1FR56LL, F1FR42, F1FR42LL, F1FRXLH & F1FR28 Sprinklers. The use of any other recessed escutcheon will void all approvals and negate all warranties.

When installing Model F1FR56, F1FR56LL, F1FR42, F1FR42LL, F1FRXLH & F1FR28 Sprinklers, use the Model D Sprinkler Wrench. Use the Model GFR2 Wrench for installing F1FR56, F1FR56LL, F1FR42, F1FR42LL, F1FRXLH & F1FR28 Recessed Pendent Sprinklers. Any other type of wrench may damage these sprinklers.

NOTE: A leak tight ½" NPT (R1/2) sprinkler joint can be obtained with a torque of 8-18 ft-lbs (10,8 - 24,4 N-m). Do not tighten sprinklers over maximum recommended torque. It may cause leakage or impairment of the sprinklers.

The Models F1FR56/CCP & F1FR56LL/CCP Concealed Sprinkler use the ½" orifice, ½" NPT (R1/2), Model F1FR56 & F1FR56LL Pendent Sprinkler with a threaded Model CCP cup which is factory attached to the sprinklers. The Model F1FR56 Pndent is available in temperature rating of 135°F (57°C), 155°F (68°C), 175°F (79°C) or 200°F (93°C). The Model F1FR56LL Pendent is available only in a rating of 200°F (93°C). The concealed sprinkler assemblies are completed by the installation of the attractive low profile Model CCP push on cover plate assembly, rated 135°F (57°C) or 165°F (74°C) for the F1FR56 and 165°F (74°C) for the FIFR56 LL. The cover plate and sprinkler cup assemblies are joined using a cover plate skirt with flexible tabs for threaded engagement. A choice of two cover plate assemblies provide either 1/2" (13mm) or 5/8" (8mm) of cover adjustment.

Do not install these sprinklers in ceiling which have positive pressure in the space above.

After a 2⅝" (67mm) diameter hole is cut in the ceiling, the sprinkler is easily installed with the Model RC1 Wrench. A Teflon* based thread sealant should be applied to the sprinkler threads only. The Model RC1 Wrench is then used to engage the sprinkler wrenching surfaces and to install the sprinkler in the fitting. When inserting or removing the wrench from the sprinkler/cup assembly, care should be taken to prevent damage to the sprinkler. DO NOT WRENCH ON ANY OTHER PART OF THE SPRINKLER. The cover plate is then pushed onto the cup. Final adjustment is made by hand turning the cover plate until the skirt flange makes full contact with the ceiling. Cover plate removal requires turning in the counter clockwise direction.

After installation, inspect all sprinklers to ensure that there is a gap between the cover plate and ceiling and that four cup slots are open and free from any air flow impediment to the space above.

Concealed cover plate/cup assemblies are listed only for use with specific sprinklers. The use of any other concealed cover plate/cup assembly with the Model F1FR56 Pendent Sprinkler or the use of the Model CCP Concealed cover plate assembly on any sprinkler with which it is not specifically listed my prevent good fire protection and will void all guarantees, warranties, listings and approvals.

Glass bulb sprinklers have orange bulb protectors to minimize bulb damage during shipping, handling and installation. REMOVE THIS PROTECTION AT THE TIME THE SPRINKLER SYSTEM IS PLACED IN SERVICE FOR FIRE PROTECTION. Removal of the protectors before this time may leave the bulb vulnerable to damage. RASCO wrenches are designed to install sprinklers when covers are in place. REMOVE PROTECTORS BY UNDOING THE CLASP BY HAND. DO NOT USE TOOLS TO REMOVE THE PROTECTORS.

*DuPont Registered Trade Mark

Temperature Ratings

Classification	Sprinkler Temperature °C	Sprinkler Temperature °F	Max. Ambient Temp.	Bulb Color
Ordinary	57	135	100°F (38°C)	Orange
Ordinary	68	155	100°F (38°C)	Red
Intermediate	79	175	150°F (66°C)	Yellow
Intermediate	93	200	150°F (66°C)	Green
High [1]	141	286	225°F (107°C)	Blue

[1] Not available for recessed sprinklers.

Escutcheon Data [1]

[1] SIN RA1435 – cULus permits use with F1, F2 or FP escutcheons for "light hazard" only, while FM limits use for same hazard with F2 escutcheon only.

Maintenance

The Model F1FR56, F1FR56LL, F1FR42, F1FR42LL, F1FRXLH and Model F1FR56, F1FR56LL, F1FR42, F1FR42LL, F1FRXLH & F1FR28 Recessed Sprinklers should be inspected and the sprinkler system maintained in accordance with NFPA 25. Do not clean sprinklers with soap and water, ammonia or any other cleaning fluids. Remove dust by using a soft brush or gentle vacuuming. Remove any sprinkler which has been painted (other than factory applied) or damaged in any way. A stock of spare sprinklers should be maintained to allow quick replacement of damaged or operated sprinklers. Prior to installation, sprinklers should be maintained in the original cartons and packaging to minimize the potential for damage to sprinklers that would cause improper operation or non-operation.

Sprinkler Types

Standard Upright
Standard Pendent
Conventional
Recessed Pendent
Vertical Sidewall
Horizontal Sidewall
Recessed Horizontal sidewall
Concealed pendent

Maximum Working Pressure

175 psi (12 bar)
100% Factory tested hydrostatically to 500 psi (34.5 bar)

Finishes [1]

Standard Finishes		
Sprinkler	**Escutcheon**	**Cover plate[1]**
Bronze	Brass	Chrome
Chrome Plated	Chrome	White
Polyester	Plated	
Coated [4][5][6]	White Painted	
Special Application Finishes		
Sprinkler	**Escutcheon**	**Cover plate[1]**
Electroless Nickel PTFE(Teflon®)*[7]	Electroless Nickel PTFE (Teflon®)*	Bright Brass
Bright Brass[3]	Bright Brass	Black Plating
Black Plated	Black Plated	Black Paint
Black Paint[2][6]	Black Paint	Off White
Off White[2][6]	Off White	Satin Chrome
Chrome Dull	Chrome Dull	

[1] Other finishes and colors are available on special order. Consult the factory for details. Custom color painted sprinklers may not retain their UL Corrosion resistance listing. Coverplate custom paint is semi-gloss, unless specified otherwise.
[2] cULus Listed only.
[3] 200°F (93°C) maximum.
[4] cULus listed "corrosion resistance" applies to SIN Numbers RA1435 (HSW), RA1485(VSW), RA1425 (Upright), RA1414 (Pendent) and RA1415 (Pendent) in standard black or white. Corrosion resistance in other polyester colors is available upon request.
[5] FM Approvals finish as "Polyester coated" applies to SIN Number RA1414, RA1435 and RA1425 in standard black or white.
[6] LPCB and VdS Approved finish applies only to RA1425, RA1414 and RA1475.
[7] cULus listed Corrosion Resistant

Ordering Information

Specify:

1. Sprinkler Model
2. Sprinkler Type
3. Orifice Size
4. Deflector Type
5. Temperature Rating
6. Sprinkler Finish
7. Escutcheon Type
8. Escutcheon Finish (where applicable)
9. Cover plate Model
10. Cover plate Thread size
11. Cover plate Temperature
12. Cover plate Adjustment
13. Cover plate Finish

Note: When Model F1FR56 Recessed sprinklers are ordered, the sprinklers and escutcheons are packaged separately.

*DuPont Registered Trademark

Reliable...For Complete Protection

Reliable offers a wide selection of sprinkler components. Following are some of the many precision-made Reliable products that guard life and property from fire around the clock.

- Automatic sprinklers
- Flush automatic sprinklers
- Recessed automatic sprinklers
- Concealed automatic sprinklers
- Adjustable automatic sprinklers
- Dry automatic sprinklers
- Intermediate level sprinklers
- Open sprinklers
- Spray nozzles
- Alarm valves
- Retarding chambers
- Dry pipe valves
- Accelerators for dry pipe valves
- Mechanical sprinkler alarms
- Electrical sprinkler alarm switches
- Water flow detectors
- Deluge valves
- Detector check valves
- Check valves
- Electrical system
- Sprinkler emergency cabinets
- Sprinkler wrenches
- Sprinkler escutcheons and guards
- Inspectors test connections
- Sight drains
- Ball drips and drum drips
- Control valve seals
- Air maintenance devices
- Air compressors
- Pressure gauges
- Identification signs
- Fire department connection

The equipment presented in this bulletin is to be installed in accordance with the latest published Standards of the National Fire Protection Association, Factory Mutual Research Corporation, or other similar organizations and also with the provisions of governmental codes or ordinances whenever applicable. Products manufactured and distributed by Reliable have been protecting life and property for over 90 years, and are installed and serviced by the most highly qualified and reputable sprinkler contractors located throughout the United States, Canada and foreign countries.

Manufactured by

Reliable®

Reliable Automatic Sprinkler Co., Inc.
(800) 431-1588 Sales Offices
(800) 848-6051 Sales Fax
(914) 829-2042 Corporate Offices
www.reliablesprinkler.com Internet Address

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MIAMIBEACH
BUILDING DEPARTMENT
1700 Convention Center Drive, 2nd Floor
Miami Beach, Fl, 33139
Phone: (305) 673-7610 Fax: (305) 673-7857

COST Affidavit

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

Permit Number: B1403807 Date: 05/27/14

Job Address: 1680 Collins Ave Folio No.: 3234-019-0630

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	$55,000	
Building & Structural Elements	$150,000	
Roofing	$5,000	
Doors & Windows	$90.000	
Railing		
Interior Finish, Floor Covering, Painting	$162,000	
Cabinets and Furniture-Built-Ins	$70,000	
Appliances-Built-Ins		
Other Building related Items		
Electrical including Fixtures	$245,000	
Elevator	$0	
Mechanical-HVAC-equipments	$2,500	
Plumbing including Fixtures	$90,000	
Overhead and Profit	$72,500	
Sub Total Construction Cost	$ 942,000	$
Sub Total Construction Cost Estimate for FEMA 50% Rule Purposes	$ 942,000.00	

MIAMIBEACH
BUILDING DEPARTMENT
1700 Convention Center Drive, 2nd 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	$ 942,000.00
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)	$ 942,000.00

Part IV: Signature Required

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.

_____
Signature of Owner

STATE OF FLORIDA
COUNTY OF Dade

Sworn to and Subscribed before me this 27 day of May 2014, by:

Nawaz Gilani

[ ] Personally known [✓] Produced Identification - Type of Identification _____

LOUIS DAVID JEREZ
MY COMMISSION # EE 075444
EXPIRES: March 17, 2015
Bonded Thru Notary Public Underwriters

_____
Signature of Notary Public

MIAMIBEACH
BUILDING DEPARTMENT
1700 Convention Center Drive, 2nd Floor
Miami Beach, Fl, 33139
Phone: (305) 673-7610 Fax: (305) 673-7857

Signature of Qualifier / Contractor

STATE OF FLORIDA
COUNTY OF Dade

Sworn to and Subscribed before me this 27 day of May 2014, by:

Michael Gory

[ ] Personally known [X] Produced Identification - Type of Identification

LOUIS DAVID JEREZ
MY COMMISSION # EE 075444
EXPIRES: March 17, 2015
Bonded Thru Notary Public Underwriters

Signature of Notary Public

Part V: Building Department Use Only

A	**Sub Total Construction Cost Estimate for FEMA 50% Rule Purposes.**	$	942,000.00
B	**Over Five Year Improvements**	$	152,000.00
C	**Total Improvements**	$	1,094,000.00
D	**Building Tax Assessed Value**	$	1,266,500.00
E	**Building Appraised Market Value**	$	
F	**Improvements Cost Ratio (C/E or C/D)**	%	86.37%

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**

HISTORIC DESIGNATED BUILDING

C. GUERRERO

Engineering Inspector Name

Engineering Inspector Signature and Date

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

Name

Signature and Date

Department of Business and Professional Regulation
FLORIDA BUILDING COMMISSION
1940 North Monroe Street
Tallahassee, Florida 32399-0772
Form FBC 2012-01
Request for Waiver

NOTICE TO WAIVER APPLICANTS

Please make certain you comply with the following:

- The person submitting the waiver request application as the Applicant MUST sign the application. Should you fail to do so, your application will be returned.

- If a licensed design professional (architect or engineer) has designed the project, his or her comments MUST be included as a part of this application.

- Be as explicit as possible. The more information provided to the Florida Building Commission, the more informed its decisions can be. If you are claiming financial hardship, please specify why and to what degree. Two estimates substantiating a claim for disproportionate cost must be included.

- Petitioners are strongly advised to participate in the Council's conference call, webinar or onsite meeting for application review. Sometimes pertinent facts are inadvertently omitted, or information provided/presented in the Request for Waiver application is not clear. Your participation in the meetings to answer questions will enhance the possibility of the waiver being approved, since the Council and the Commission will receive the most complete information – from you. When we receive the completed application, we will send you a notice of the time, date, and place for both the Council and the Commission meetings.

Enclosed is a **List of Required Information** and the **Request for Waiver** application.

If you have any questions or would like additional information, please call the Codes and Standards Section at (850) 487-1824.

Please mail this application to the Department of Business and Professional Regulation at the address above. **Include a copy of the application, photos where appropriate and drawings or plans on a CD in PDF format. NOTE: Please do not send files in CAD format but rather provide the files in pdf format.**

This application is available in alternate formats upon request.

LIST OF REQUIRED INFORMATION:

1. _____ Drawings that will clearly present your project and that identify the issue(s) that relate to the waiver you are requesting. As a minimum, the following drawings must be submitted:
   a. Project site plan if pertinent to the application
   b. 24" x 36" minimum size drawings
   c. Building/project sections (if necessary to assist in understanding the waiver request)
   d. Enlarged floor plan(s) of the area in question

2. _____ When substantial financial cost of compliance is alleged, supporting cost estimates with quotes from at least two vendors or contractors and catalog information.

3. _____ If you feel photographs and/or renderings are necessary for your presentation, provide legible color copies of the photographs and/or renderings on the CD with the application and plans in jpeg, tif or pdf format.

4. _____ Please submit one hard copy of this application and attachments to the Florida Building Commission, Department of Business and Professional Regulation.

General Information:

a. **Verbal Descriptions:** Presentations may be to sight or hearing impaired persons; visual presentations should consider adequate verbal and text descriptions of charts and pictures.

Your application will be reviewed by the Accessibility Advisory Council. You will have the opportunity to answer questions and/or make a short presentation **not to exceed 15 minutes**. The Council will provide recommendations to the Florida Building Commission. The Commission will review the application, where you will have another opportunity to answer questions and /or give a short presentation **not to exceed 15 minutes**. The Commission will consider all information and the Council's recommendation before voting on the waiver.

This application is available in alternate formats upon request.

REQUEST FOR WAIVER FROM ACCESSIBILITY REQUIREMENTS OF CHAPTER 553, PART II, FLORIDA STATUTES

Your application will be reviewed by the Accessibility Advisory Council and its recommendations will be presented to the Florida Building Commission. You will have the opportunity to answer questions and/or make a short presentation, not to exceed 15 minutes, at each meeting. The Commission will consider all information presented and the Council's recommendation before voting on the waiver request.

1. **Name and address of project for which the waiver is requested.**

Name: San Juan Hotel

Address: 1680 Colins Avenue Miami Beach, Florida 33139

2. **Name of Applicant. If other than the owner, please indicate relationship of applicant to owner and written authorization by owner in space provided:**

Applicant's Name: Jonathan Cardello, AIA

Contact: Jennifer Llop-Noy

Applicant's Address:
One Biscayne Tower Suite 1670
Two South Biscayne Boulevard
Miami Florida 33131

Applicant's Telephone: 305-482-8700 **FAX:** 305-482-8770

Applicant's E-mail Address: jllop-Noy@addinc.com

Relationship to Owner: Architect

Owner's/Tenant's Name: Nazir Gilani

Owner's Address: 1680 Collins Avenue, Miami Beach, Florida 33139

Owner's Telephone:_____ **FAX**_____

Owner's E-mail Address: _____

Signature of Owner: _____

3. **Please check one of the following:**

[ ] New construction.

[ ] Addition to a building or facility.

[ ] Alteration to an existing building or facility.

[ ] Historical preservation (addition).

[x] Historical preservation (alteration).

4. **Type of facility.** Please describe the building (square footage, number of floors). Define the use of the building (i.e., restaurant, office, retail, recreation, hotel/motel, etc.)

Three story existing hotel with 76 rooms and outdoor pool, see square footage breakdown below:

First Floor: 8968 sq ft.

Second Floor: 9168 sq ft.

Third Floor: 9168 sq ft.

Total: 27, 304 sq ft.

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5. **Project Construction Cost (Provide cost for new construction, the addition, or the alteration):** $1,600,000

6. **Project Status:** Please check the phase of construction that best describes your project at the time of this application. Describe status.

[X] Under Design [ ] Under Construction*

[ ] In Plan Review [ ] Completed*

* Briefly explain why the request has now been referred to the Commission.

Scope of work is limited to FF&E remodel of an existing hotel, with minor lobby bar improvements.

7. **Requirements requested to be waived.** Please reference the applicable section of Florida law. Only Florida-specific accessibility requirements may be waived.

Issue 1:
(11-4.8 ramps) (11-4.10 elevators) (11-4.13.5 – Clear width for doors <32") (11-4.3 Accessible route) (11-4.3.1 and 4.3.2) (11-4.3.7 Slope of 1:20) (11-4.1.6 Accessible buildings alterations) (Technically Infeasible) (11-4.11 Platform Lift) "Other existing or site constraints"

Access to Building From Right of Way (R.O.W.)
Too many level changes from right of way, lobby, guest rooms, pool, and other public spaces in

the building without an accessible route.

A.) R.O.W.
B.) Entry Porch
C.) Lobby Level
D.) Staircase #1 Level
E.) Guestrooms Level 1
F.) Pool Deck Level
G.) James Street Level

The primary issue is the lack of space (as per 11-4.8 FBC maximum ramp ratio) for a ramp to access these different level changes and the cost of putting in a platform lift. Section 1 shows the level changes from sidewalk to lobby. A platform lift at the entrance would call for the destruction of a portion of the historic entry porch and historic terrazzo in order to have the Entry Porch (+2'-6") meet the level of the Lobby (+3'-0").

From sidewalk to lobby (see Section 1) there is not enough space to erect a ramp (11-4.3.7 Slope min. of 1:10) given the distance from building to property line and the existing historic outdoor patio. Given the minor work being done and small budget, the extremely high pecuniary impact upon our client to obtain a mechanical method for fair and equal access is extremely cost prohibitive. Therefore an elevator, ramp, or lift is beyond the budget or means for our client given the existing site constraints, technical infeasibility, and finally the small budget for this project.

On the west side of the property, the pool deck will have a new ramp to allow ADA access from James Street. However, to access the 1st floor guest rooms (which themselves do not have ADA access from the front entrance) from the pool deck there is neither space for a ramp nor a cost efficient method for ADA accessibility. As stated previously, the small budget and scope of the interior renovation project and the technical infeasibility put an elevator or lift way out of the budget and means for our client.

Issue 2:
To replace the elevator cabin and bring it to ADA code would cause too much of a financial burden upon our client. The breakdown from Vendor A and Vendor B show the financial cost of upgrading the current elevator to ADA standard.

8. **Reason(s) for Waiver Request:** The Florida Building Commission may grant waivers of Florida-specific accessibility requirements upon a determination of unnecessary, unreasonable or extreme hardship. Please describe how this project meets the following hardship criteria. Explain all that would apply for consideration of granting the waiver.

[ ] The hardship is caused by a condition or set of conditions affecting the owner which does not affect owners in general.

Limited budget and the cost for ADA improvements are

[X] Substantial financial costs will be incurred by the owner if the waiver is denied.

[X] The owner has made a **diligent investigation** into the costs of compliance with the code, but cannot find an efficient mode of compliance. Provide detailed cost estimates and, where appropriate, photographs. Cost estimates must include bids and quotes.

9. **Provide documented cost estimates for each portion of the waiver request and identify any additional supporting data which may affect the cost estimates.** For example, for vertical accessibility, the lowest documented cost of an elevator, ramp, lift or other method of providing vertical accessibility should be provided, documented by quotations or bids from at least two vendors or contractors.

a.
ATF Concrete
Quote #1
Contract Total: $297,647.87
(19% of total budget)

b.
Holmes Builders Inc.
Quote #2
Total amount for ADA Upgrades: $322,882.00 (see attachment for cost analysis)
(20% of total budget)

10. **Licensed Design Professional**: Where a licensed design has designed the project, his or her comments **MUST** be included and certified by signature and affixing of his or her professional seal. The comments must include the reason(s) why the waiver is necessary.

Signature **Printed Name**

Phone number_____

(SEAL)

CERTIFICATION OF APPLICANT:

I hereby declare that the applicable documents in support of this Request for Waiver are attached for review by the Florida Building Commission and that all statements made in this application are to the best of my knowledge true and correct.

Dated this _____day of _____, 20

_____

Signature

_____

Printed Name

I understand that if I falsify, misrepresent, or omit any material information on this document, the Commission may revoke any order and will notify the building official of the permitting jurisdiction.

KNOWINGLY MAKING A FALSE STATEMENT IN WRITING WITH THE INTENT TO MISLEAD A PUBLIC SERVANT IN THE PERFORMANCE OF HIS OFFICIAL DUTY IS A MISDEAMEANOR OF THE SECOND DEGREE PURSUANT TO SECTION 837.06 F.S. AND SECTION 775.083, F.S.

REVIEW AND RECOMMENDATION BY LOCAL BUILDING DEPARTMENT.

Please state why the issue is being referred to the Florida Building Commission as well as a recommendation for disposition. The Building Official or his or her designee should review the application and indicate that to the best of his or her knowledge, all information stipulated herein is true and accurate. Further, if this project is complete, explain why it is being referred to the Commission. The Building Official or his or her designee should sign a copy of the plans accompanying this application as certification that such plans are the same as those submitted for building department review. Please reference the applicable section of the Accessibility Code.

a. _____

b. _____

c. _____

Has there been any permitted construction activity on this building during the past three years? If so, what was the cost of construction?

[ ] Yes [ ] No Cost of Construction _____

Comments/Recommendation_____

_____

Jurisdiction _____

Building Official or Designee _____
Signature

_____
Printed Name

_____
Certification Number

_____
Telephone/FAX

_____
Email Address

Address: _____

_____.

Certification of Licensed Design Professional for Replicated Designs to be Placed on Consent Agenda

Note: Fill out pages _____ only for cases in which design documents are duplicates of previously approved waivers and the project can be placed on a Consent Agenda.

I,_____, a licensed architect/engineer in the state of Florida,

whose Florida license number is _____, hereby state as follows:

1. I am the architect/engineer of record for the project known as (name of project) _____ _____, for which the Owner seeks a waiver of one or more accessibility requirements in an application to which this Certification is attached.

2. I hereby certify that to the best of my knowledge and belief to the Florida Building Commission that the design documents for the (insert project described in paragraph 1 above)_____ are the same as the design documents previously submitted to the Commission and referenced in paragraph 3 below, except that the two projects are built or to be built on different parcels of land at different locations.

3. The licensed design professional of record (identify the licensed design professional of record), _____, prepared the design documents for the project known as _____, for which the majority of the Accessibility Advisory Council recommended approval and the Commission granted a waiver of one or more accessibility requirements in Final Order No. _____.

Printed Name: _____ Affix certification seal below:

Address: _____

_____

Telephone: _____

Fax: _____

E-Mail Address: _____

San Juan Hotel

1680 Collins Avenue, Miami Beach, FL
Budget Estimate

Turner
8/6/2013

ADA Options: Budget Estimate Summary

	VENDOR A ATF CONCRETE	VENDOR B HOLMES BUILDERS
A) Main Entry ADA Access Modifications		
Mobilization	2,500	2,500
Demolition	8,000	8,000
Earthwork	12,500	12,500
Paving	5,000	5,000
Concrete	57,376	72,696
Structural Steel	4,500	4,500
Glass & Glazing	7,500	7,500
Finishes	15,000	15,000
Vertical Lift	18,000	18,000
Mechanical	5,000	5,000
Electrical	18,000	18,000
Main Entry ADA Access Subtotal:	**$153,376**	**$168,696**
B) West Side New ADA Ramp		
Mobilization	2,500	2,500
Demolition	10,000	10,000
Earthwork	12,500	12,500
Paving	5,000	5,000
Concrete	82,576	175,556
Structural Steel	4,500	4,500
Glass & Glazing	7,500	7,500
Finishes	15,000	15,000
Vertical Lift	18,000	18,000
Mechanical	5,000	5,000
Electrical	18,000	18,000
West Side New ADA Ramp	**$180,576**	**$273,556**
C) Uprade of Elevator		
Mobilization	2,500	2,500
Demolition	10,000	10,000
Concrete	157,695	84,631
Structural Steel	15,000	15,000
Finishes	15,000	15,000
Elevator	55,000	55,000
Mechanical	5,000	5,000
Electrical	25,000	25,000
Upgrade of Elevator	**$285,195**	**$212,131**
General Requirements	31,000	32,700
Design / Development Contingency	62,000	65,000
Subcontractor Bonding (Subguard)	12,400	13,100
Direct Cost All Phases Subtotal:	**$724,547**	**$765,183**
General Conditions	72,500	76,500
Master Building Permit	29,000	30,600
Builder's Risk Insurance	6,500	6,800
General Liability Insurance	9,200	9,700
Payment and Performance Bond	8,400	8,900
Construction Manager's Fee	42,500	44,900
***Budget Estimate Total:**	**892,647**	**942,583**

**Budget based upon conceptual scope of work; to be refined upon issuance of design drawings.*

ATF CONCRETE

SOUTH FLORIDA DISTRICT

AUGUST 1, 2013

Meba Solomon
Turner Construction Company
1000 NW 57th Court, Suite 200
Miami, FL 33126
Direct 786.621.9109
Mobile 786.400.3743
msolomon@tcco.com

PROJECT: SAN JUAN HOTEL RENOVATION _ ADA WAIVER ITEMS
LOCATION: 1680 COLLINS AVE, MIAMI BEACH, FLORIDA

Dear Mr. Solomon,

Upon review of the Architectural drawings, dated **07/03/2013**, as prepared by ADD, INC. for the above referenced project, ATF Concrete presents the following scope of work to provide Concrete and Masonry construction services.

SCOPE OF WORK

ATF Concrete shall provide the materials, labor, and equipment as required, to perform the following construction services:

1. Elevator shaft widdening.
2. Shoring of floors for demolition of shaft.
3. Demolition of elevator from top to bottom.
4. Removal of all debris to onsite dumpster provided by others.
5. Supply and install new CMU filled solid and slab extension over new walls, includes a tie beam at each floor and a concrete cap at the top.
6. Widen corridor at stairs leading to lobby for install of new ramp.
7. Demolition of guest room.
8. Provide new CMU Exterior wall enclosure.
9. Tie-in new ramp to existing.
10. Form, set rebar and pour new ramp on styrofoam.
11. Demo part of Restaurant wall at stairs coming from corridor to pool, to install new ramp.
12. Remove CMU wall, and relocate wall west.
13. Form, set rebar and pour new ramp on styrofoam.
14. Demo wall beside the storefront for installation of new entry ramp.
15. Shoring as required to relocate or remove wall.
16. Form and pour new ramps as required.
17. Repair existing slab on grade as required by this scope of work.
18. Excavation and backfill for foundations.
19. All formwork accessories for included scope.
20. Fine grade slabs on grade from compacted sub grade at +/- .1' provided by others.
21. Perimeter safety as required for each activity included in scope.
22. All formwork accessories for included scope.

23. Pointing and patching of tie holes as required.
24. Provide soil poisoning below slab on grade.
25. Provide membrane cure for all horizontal slabs.
26. Saw cut control joints within 24 hours of slab placement.
27. Supply and install WWF as required for SOG.
28. Provide vapor barrier under all SOG.
29. Cleanup of concrete and masonry drips at the time of pour.
30. Cleanup of formwork material to onsite dumpster provided by others for removal by others.
31. Assist the concrete testing agency as required.
32. All shop drawings and submittals.
33. All sales and use tax.
34. All business permits per local regulations. Building permits and inspection fees shall be by others.
35. All warranties and guarantees.
36. Layout for our scope of work. ATF Concrete shall be provided sufficient bench marks, reference points, elevations, and control lines at the outset of the project.
37. Supply ready-mix concrete in scope of work.
38. Supply and install reinforcing steel in cast-in-place concrete and masonry construction.
42. Supply and install horizontal and vertical reinforcing as required for this scope.
43. Furnish and install masonry reinforcement and grout cells as detailed on the structural drawings.

B. <u>EXCLUSIONS</u>

The following items of work are specifically excluded.

1. **Site dewatering, and/or well pointing other than mentioned above. Casual rainwater removal is included.**
2. Excavation of unforeseen conditions.
3. Any work not shown on the structural documents or **outside building footprint.** Unless specifically mentioned above.
4. Site roads and staging areas. These are to be provided and maintained by others.
5. Jobsite security (fencing, barricades, walkways, etc.)
6. **Hardeners or sealers of any type.**
7. Permits.
8. Rough Carpentry.
9. Excludes miscellaneous metals.
10. Electrical power consumption or supply.
11. Concrete testing or payment of same unless due to cause or failure of Subcontractor's work.
12. Threshold inspection fees unless due to failure of Subcontractor's work.
13. Furnish or install sleeves for mechanical or electrical trades.
14. **Joint sealants and waterproofing of any kind.**
15. Employee parking area and bussing to and from.
16. Grouting of joist/beam pockets, steel door frames, elevator door jambs, and pipe bollards. (Unless specifically mentioned above.)
17. All concrete poles, post foundations for <u>bollards</u>, signs, gates, flagpoles, etc...
18. Galvanized rebar, galvanized rebar supports, and galvanized welded wire mesh.
19. Export and/or import of fill material and movement of the same.
20. CMU insulation assemblies; i.e.- Core Fill, etc.

21. Epoxy coated rebar.
22. DCI Concrete. (Corrosion inhibitor admixture.)
23. Export and/or import of fill material and movement of the same.

C. SPECIFIC PROVISIONS

1. For concrete surfaces exposed to public view, this proposal is based on forming flush concrete surfaces to ACI 347, Class "B" standards (1/4" abrupt).
2. We shall dispose our jobsite debris in dumpsters provided by the Contractor.
3. ATF Concrete shall invoice monthly based on the percent complete to date less 10% retainage, until ATF Concrete reaches 50% completion, at which time no further retention shall be withheld (effective 5% at substantial completion). Retainage shall be due within thirty (30) days of completion of our portion of the work. No retainage shall be withheld on permanent materials.
4. The necessary power (110 volt, with ground fault interruption) will be furnished to us without charge, for the operation of power tools at the working level. Water for cleaning tools and equipment at a tap near the building will be furnished to us without charge. General Contractor shall supply drinking water and sanitary facilities at the working level.
5. A roadway shall be furnished and maintained (by others), such that trucks have access to, and away from the jobsite under their own power.
6. This proposal is based on a mutually agreed upon schedule.

D. PRICING

1. Elevator shaft widdening - $157,695.43
2. Widen corridor at stairs leading to lobby for installation of new ramp. - $49,894.32
3. Demo part of Restaurant wall at stairs coming from corridor to pool, to install new ramp. $32,682.47
4. Demo wall beside the storefront for installation of new entry ramp. - $57,375.65

CONTRACT TOTAL: $297,647.87

Should you have any questions regarding our scope of work, please give me a call at 786-718-8988. We look forward to the opportunity of working with your team in the successful completion of this project.

Sincerely,

Alexander Fournaris

HOLMES BUILDERS INC.
980 N.W.N. RIVER DR. #139
MIAMI, FL. 33136
PH. 325-8734
FAX 324-5494

PROPOSAL
SAN JUAN HOTEL

PROJECT: Cast In Place Concrete And Concrete Block

TO: Turner Construction Co.
1000 N.W. 57th. Court, Suite 200
Miami, Fl. 33126

ATTN: Meba Solomon

DATE: Aug. 01, 2013

HOLMES BUILDERS INC.

980 N.W.N. RIVER DR. #139
MIAMI, FL. 33136
PH. 325-8734
FAX 324-5494

Aug. 01, 2013

To: Turner Construction Company
1000 N.W. 57th. Court , Suite 200
Miami, Fl. 33126

Project: San Juan Hotels ADA Up Grades
1680 Collins Avenue Miami Beach, Florida
Cast In Place Concrete And Concrete Block

Attn: Meba Solomon

Dear Mr. Meba

Thank you for the opportunity to submit this estimate for the cast in place concrete for the above referenced project.

Work includes ADA Up Grades,

Our lump sum estimate to furnish labor, material and equipment is:
Three Hundred Thirty Two Thousand Eight Hundred Eighty Two Dollars.

($332,882.00)

Should you have any questions or need additional information contact Thomas Holmes at office 305-325-8734, Mobil 305-219-4828, e-mail tomholmesinc@aol.com

Sincerely

Thomas Holmes
President Holmes Builders Inc.

Holmes Builders Inc.
980 N.W. N. River Dr. #139
Miami, Fl. 33136
Ph. (305) 325-8734
Fax (305) 324-5494

Aug. 1, 2013

Project: 2

Re: Cast In Place Concrete, Masonry And Block

San Jaun Hotel ADA UP GRADES
Cost Analysis

	ITEM	COST
1.	General Conditions	33,972.00
2.	Demolition	24,800.00
3.	Earth Work	5,421.00
4.	Front Entry Ramp	4,500.00
5.	Street To Pool Ramp	27,540.00
6.	Pool To Building Ramp	60,529.00
7.	Interior partition Framing	7,250.00
8.	Electrical	5,100.00
8.	Store Front Entry Ramp And New Window In Pool Gust Room Ramp	20,880.00
9.	Shoring For Elevator And Gust Room Wall	14,500.00
10.	Elevator Pit And Floor Opening Beams	19,000.00
11.	Liability Insurance	15,726.00
12.	Permit	32,183.00
13.	Engineered Drawings	6,000.00

0

demo street ra	1 ea	2400	SUB TOTAL	277,401.00
			FEE	55,481.00

TOTAL ..... **$ 332,882.00**

August 20th, 2014

Tom Armstrong
City of Miami Beach
Fire Plan Reviewer

RE: San Juan Phasing Plan

Dear Mr. Armstrong,

This letter is to confirm the phasing and occupation plan during construction at The San Juan Hotel.

Construction of the interior space will be completed in three (3) phases with the exterior pool deck and front façade running concurrently throughout all 3 phases. During construction the hotel will be open and occupied by guests but guests will never be allowed to occupy areas at the same time construction in ongoing. Phase 1 of the project will include renovation of the 3rd floor guestrooms and corridors. Phase 2 of the project will include renovation of the 2nd floor guestrooms and corridor and Phase 3 will include renovation of the 1st floor guestrooms, corridor, front lobby and check in area which will be completed in sections to allow safe entrance and egress of guests. At all times areas of construction will be zoned off and protected from hotel employees and guests.

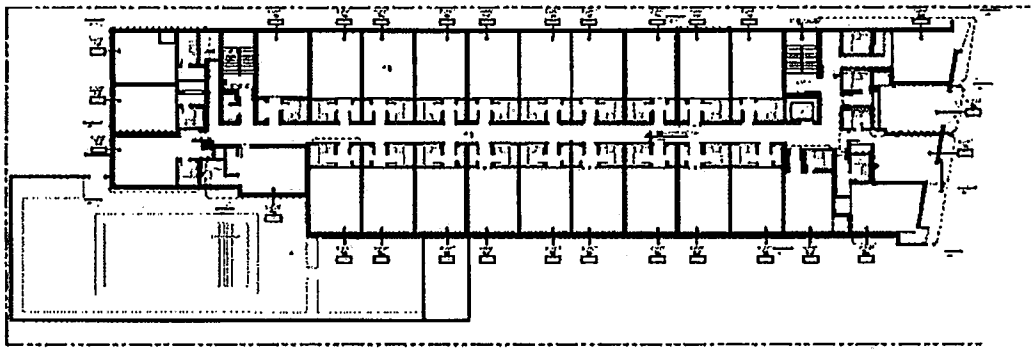
The existing fire alarm panels and devices at San Juan Hotel will remain operational and unaltered during construction. The system will continue to work as previously installed and inspected with all systems normal during construction. New fire alarm devices will be installed corresponding to the phasing plan and will only become fully operational once the entire new system has been installed and inspected. Once the new system is fully operational the old system will be removed. I have attached behind this letter small floor plans listed per phase.

Please feel free to contact me at your convenience. My cell phone number is 305-804-3073.

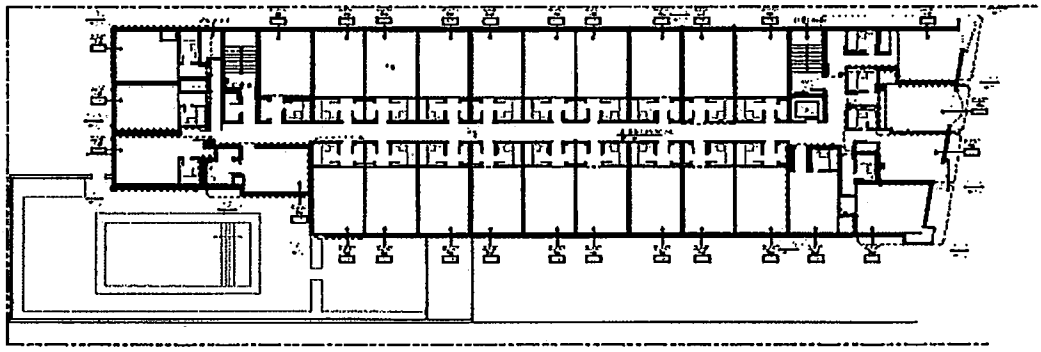
Sincerely,

Chad Michael Adams
Project Manager
New Beach Construction Partners

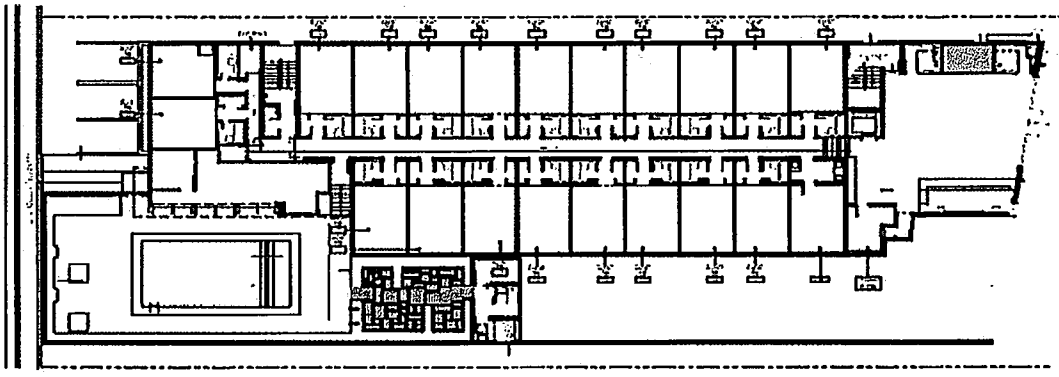
NEW BEACH CONSTRUCTION PARTNERS
328 NE 29th Street • MIAMI FL 33127 • (O) 305.577.6406 • (F) 305.446.4428



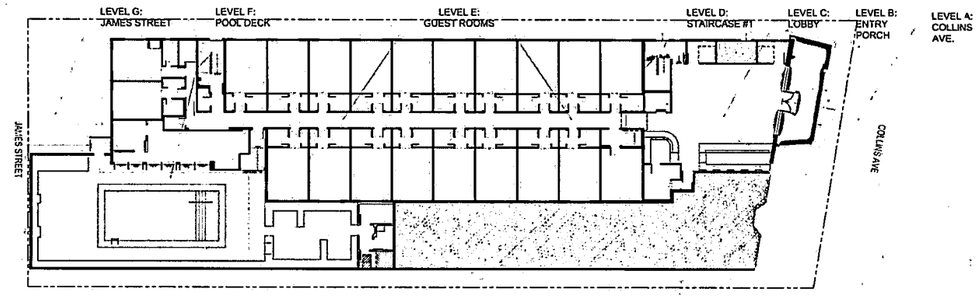
PHASE 1 – 3rd Floor, Pool Deck and Front Façade Remediation (Approximately 3 weeks)



PHASE 2 – 2nd Floor , Pool Deck and Front Façade Remediation (Approximately 6 weeks)



PHASE 3 – 1st Floor, Pool Deck (Approximately 6 weeks)

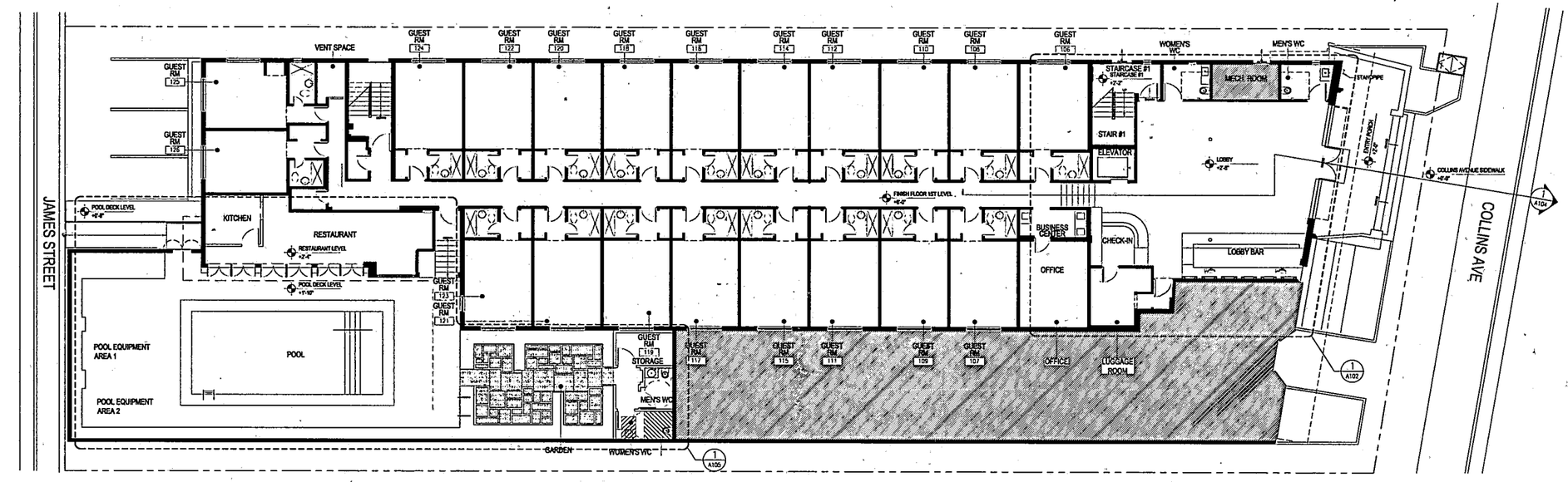


FIRST FLOOR LEVEL CHANGES DIAGRAM

SCALE: 1/16" = 1'

FIRST FLOOR LEVEL CHANGES

	TYPE	HEIGHT
	COLLINS AVENUE LEVEL	+0'-0"
	ENTRY PORCH LEVEL	+2'-0"
	LOBBY LEVEL	+2'-6"
	STAIRCASE #1 LEVEL	+3'-2"
	GUESTROOM LEVEL	+6'-0"
	POOL DECK LEVEL	+1'-10"
	JAMES STREET LEVEL	+0'-9"



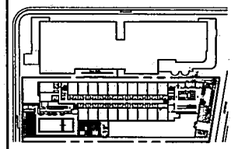
PROPOSED FIRST FLOOR LEVEL

SCALE: 1/8" = 1'

SAN JUAN HOTEL
1680 COLLINS AVE

MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE

PROGRESS SET

NORTH SEAL

Jonathan Cardello
Lic. # AR93391

ADD Inc Architecture Interiors Planning

One Biscayne Tower
Suite 1670
Two South
Biscayne Boulevard
Miami, Fl 33131
T 305.462.8700
F 305.462.8770
www.addinc.com
Lic. # AA26001507

Boston Miami

JOB NUMBER:	13023.00
CHECKED BY:	
ISSUE DATE:	OCTOBER 10, 2013
SCALE:	

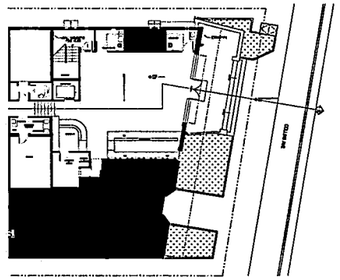
SHEET TITLE

FIRST FLOOR PLAN
PLAN DIAGRAMS

SHEET NUMBER

A101

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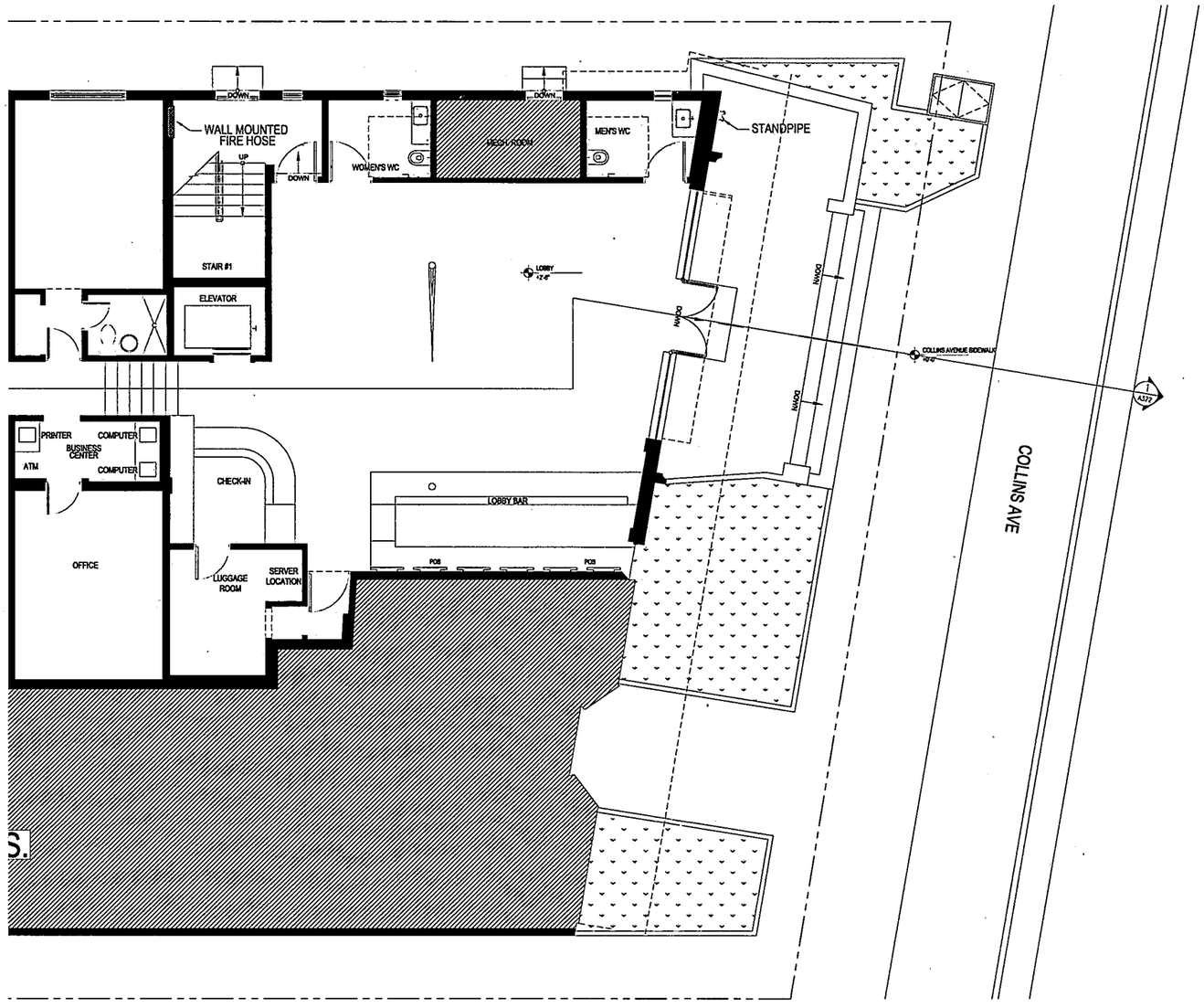


LOBBY LEVELS DIAGRAM

SCALE: 1/64" = 1'

FIRST FLOOR LEVEL CHANGES

	TYPE	HEIGHT
	SIDEWALK LEVEL	+0'-0"
	ENTRY PORCH LEVEL	+2'-0"
	STAIRCASE #1 LEVEL	+2'-2"
	LOBBY LEVEL	+2'-6"
	GUEST ROOM LEVEL	+6'-0"



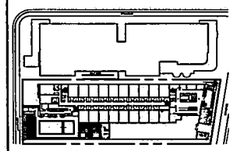
PROPOSED LOBBY PLAN

SCALE: 1/4" = 1'

SAN JUAN HOTEL
1680 COLLINS AVE

MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

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PROGRESS SET

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SCALE:

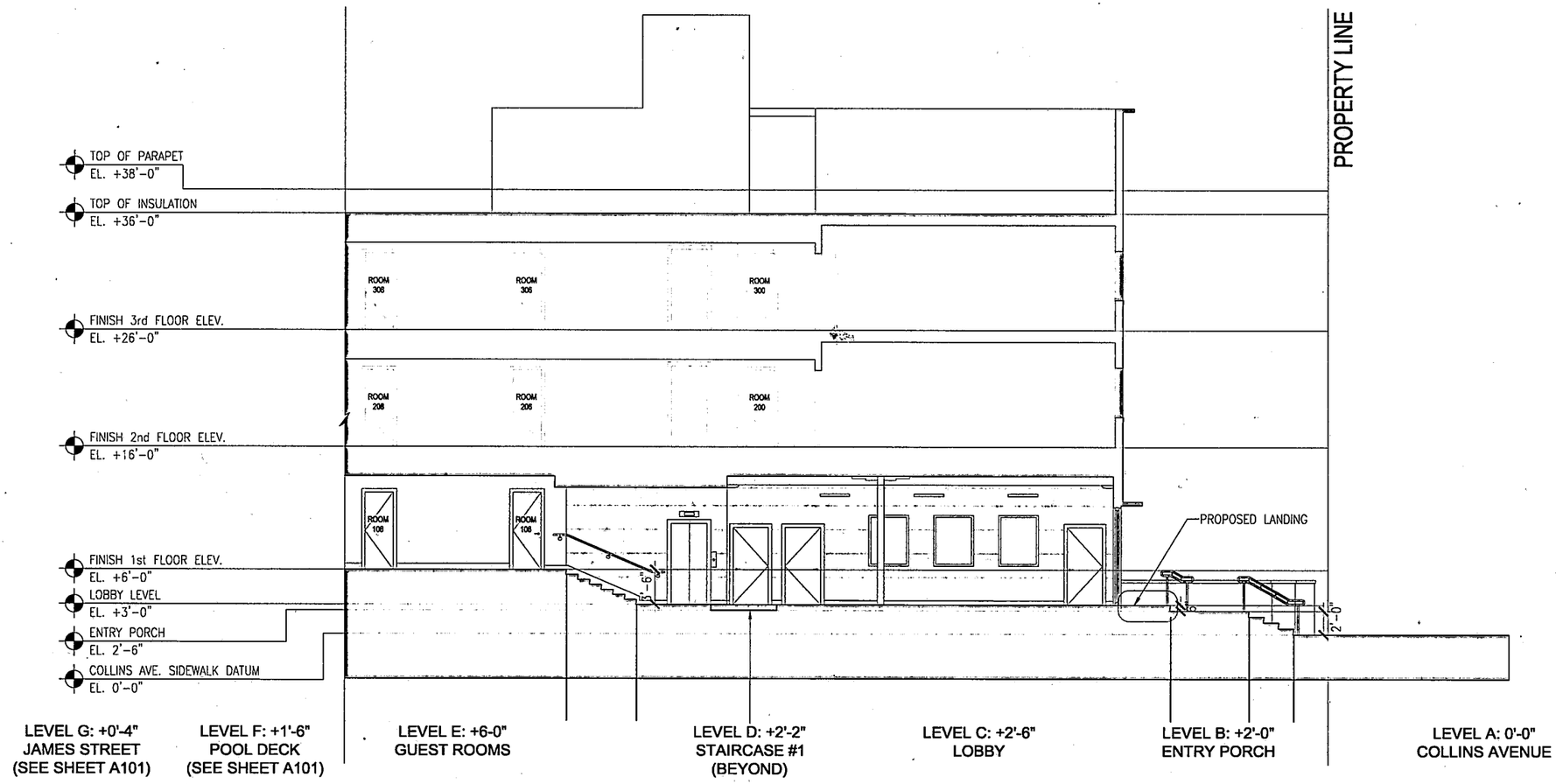
SHEET TITLE

ENLARGED LOBBY FLOOR PLAN

SHEET NUMBER

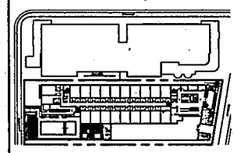
A102

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REVISIONS

NO.	DESCRIPTION	ISSUE DATE

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Lic. # AA26001507

Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: OCTOBER 10, 2013
SCALE:

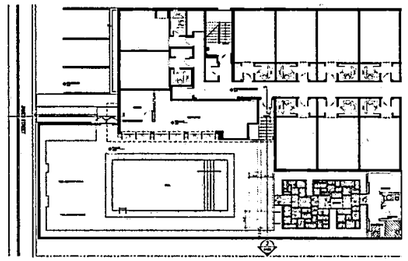
SHEET TITLE

ENLARGED LOBBY SECTION

SHEET NUMBER

A103

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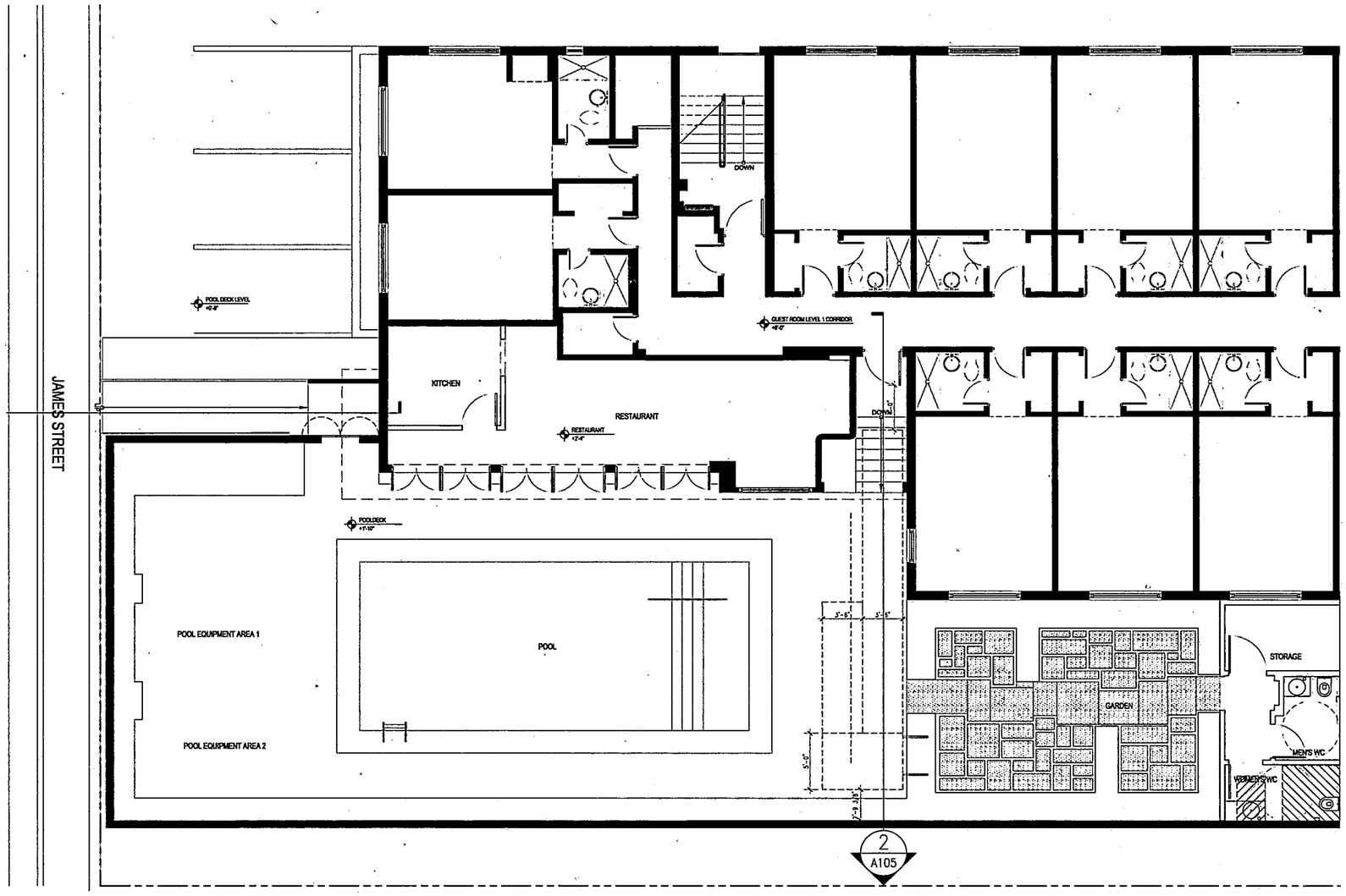


POOL DECK LEVEL CHANGES DIAGRAM

SCALE: 1/64" = 1'

FIRST FLOOR LEVEL CHANGES

	TYPE	HEIGHT
	POOL DECK LEVEL	+1'-10"
	GUEST ROOM LEVEL	+6'-0"
	RESTAURANT LEVEL	+2'-4"
	JAMES STREET LEVEL	+0'-0"

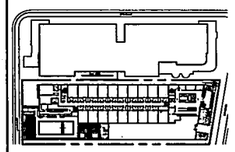


PROPOSED POOL DECK PLAN

SCALE: 1/4" = 1'

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE

PROGRESS SET

NORTH SEAL

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Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: OCTOBER 10, 2013
SCALE:

SHEET TITLE

ENLARGED POOL DECK FLOOR PLAN

SHEET NUMBER

A104

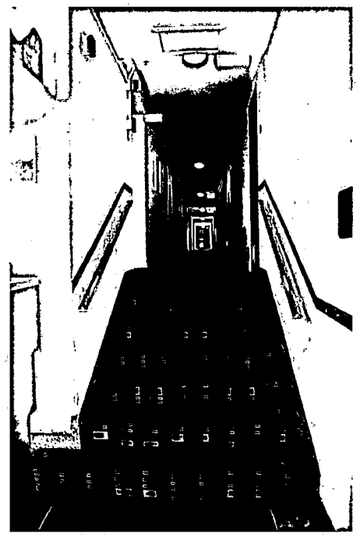
COPYRIGHT ADD INC 2013



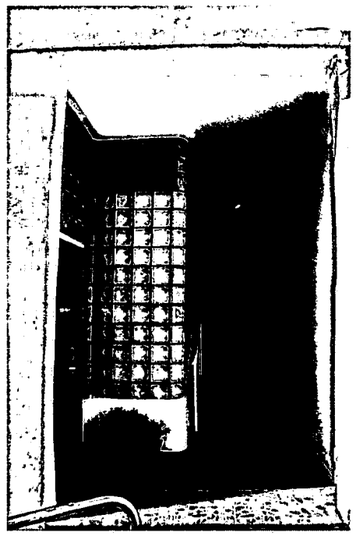
ENTRY PORCH ON COLLINS AVE. & ADDITIONAL STEP UP TO LOBBY



ENTRANCE TO POOL DECK FROM JAMES STREET



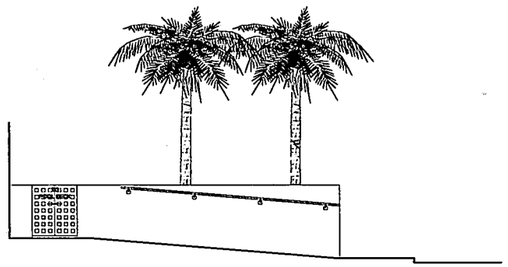
STAIRCASE - LOBBY TO FIRST FLOOR GUESTROOMS



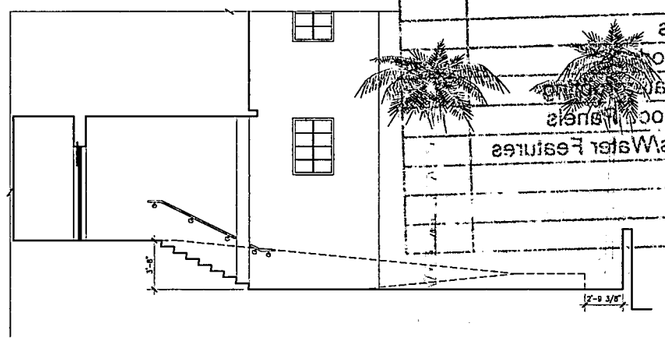
STAIRCASE - OUTDOOR POOL DECK TO FIRST FLOOR GUESTROOMS



STAIRCASE - STEP DOWN TO STAIRCASE #1



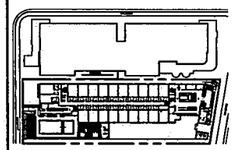
PROPOSED SECTION
POOL DECK ENTRANCE FROM JAMES STREET
SCALE: 1/4" = 1'



EXISTING POOL DECK SECTION
SCALE: 1/4" = 1'

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE

NOTICE – A separate permit is required for the indicated items:

	Awnings
	Doors/Windows
	Doors/Piers/Seawalls
	Elevators
	Generators
	Kitchen hood
	Roofing/Walls
	Structures/Floors/Tanks
	Spas/Water Features

PROGRESS SET

NORTH SEAL

Jonathan Cardello
Lic. # AR93391

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www.addinc.com
Lic. # AA26001507

Boston Miami

JOB NUMBER:	13023.00
CHECKED BY:	
ISSUE DATE:	OCTOBER 10, 2013
SCALE:	

SHEET TITLE

ENLARGED POOL DECK SECTION

SHEET NUMBER

A105

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Miami Beach Building Department	
NOTICE – A separate permit is **required for the indicated items:**	
Awnings	
Doors/Windows	
Docks/Piers/Seawalls	
Elevators	
Generators	
Kitchen hoods	
Roofing/Waterproofing	
Shutters/Flood Panels	
Pools/Spas/Water Features	

Water and Sewer
PO Box 330316 • 3575 S. Lejeune Road
Miami, Florida 33233-0316
T 305-665-7471

MIAMI-DADE COUNTY
miamidade.gov

ORDINANCE 89-95
COMPLIANCE FORM

ATLAS PAGE: B-13 INV#: 158300 FORM #: 201444934 DATE: 8/15/2014

This form acknowledges compliance on the part of the following with the requirements in accordance with Miami-Dade County's Ordinance number 89-95.

Name of Owner:	SAN JUAN HOTEL
Mailing:	
Address:	1680 COLLINS AVE
City, State, Zip:	MIAMI BEACH FL 33139-
Property Address:	1680 COLLINS AVE
Property Legal Description:	ALTON BEACH 1ST SUB PB 2-77 LOT 8 & S1/2 LOT 9 BLK 30
Folio Number:	02-3234-019-0630
Proposed usage / No. of Units:	76 HOTEL ROOMS PER PLANS
REPLACES: Previous Usage / No. of	80 HOTEL ROOMS PER PTXA & MDC BUSINESS TAX ACC #3178159 DATED 6/15/1994 (CREDIT 400 GPDS FOR 4 HOTEL ROOMS)
Gallons per Day:	**-400**

PREVIOUS FLOW:	8,000	PREVIOUS SQUARE FOOTAGE:	0	☑ NEW CONSTRUCTION	
PROPOSED FLOW:	7,600	PROPOSED SQUARE FOOTAGE:	0	☑ INTERIOR RENOVATION	

Municipality:

Water Service Area:	Miami Beach		
Sewer Service Area:	Miami Beach		
Water Connection Charge:	$0.00	Invoice No.:	158300
Sewer Connection Charge:	$0.00		
Total Connection Charge:	$0.00		

Comments: PLAN REVIEW SUMMARY FINAL CORE REVIEW DATE 8/7/2014
PROCESS #2014062709324637 ORD LTR FEE $150.00

THIS FORM IS VALID ONLY WHEN ACCOMPANIED BY A STAMPED 'PAID' COPY OF INVOICE NO.

Approved By: Lizette Gonzalez
Lizette Gonzalez - New Business Representative

CONTACT NAME: FRITZ MASSON
CONTACT PHONE: (305) 710-1118

Printed On: 8/20/2014 10:04:25 AM

NB: Lizette Gonzalez
PR:

Delivered to Applicant by Luis Delgado

Approved By: Luis Delgado 8/20/14

MIAMI-DADE COUNTY Water and Sewer

Miami-Dade Water and Sewer Department

New Business Office
P.O. Box 330316
Miami, Florida 33233-0316
3575 South LeJeune Road, Room 114
Miscellaneous Charges

INVOICE #: 158300
DATE: August 20, 2014
CUSTID: 169614
PeopleSoft Acct ID#: 5805752670
Building Process # : X

IN ACCOUNT WITH

PERMIT X INC
7923 NW 195TH TER

MIAMI, FL 33015-

REFERENCE

FEE FOR ORDINANCE LETTER #201444934 ISSUED TO SAN JUAN HOTEL FOR 76 HOTEL ROOMS REPLACING 80 HOTEL ROOMS @ 1680 COLLINS AVE FOLIO #02-3234-019-0630 PAID CK #1328

ER WATER: N/A
ER SEWER: N/A
AGMT ID:

DESCRIPTION

QTY GPD	DESCRIPTION	G/L CODE	CIS ADJ CD	UNIT PRICE	AMOUNT
1	Ordinance Letter Water Only non-res	6436701-EW101		75.00	75.00
1	Ordinance Letter Sewer Only non-res	6436701-EW501		75.00	75.00
				TOTAL:	$150.00

MIAMI-DADE WATER AND SEWER DEPARTMENT
PAID
AUG 20 2014
OT Miami-Dade County - PERA 51

WATER DEPOSITS: $0.00
SEWER DEPOSITS: $0.00

INVOICE NO. 158300 TOTAL: $150.00

Original Invoice 158300 Printed On 8/20/2014 By : Lizette Gonzalez

Distribution: White-Customer, Yellow-General Office, Pink-Local Office, Gold-New Business

B1403807

DOUGLAS WOOD

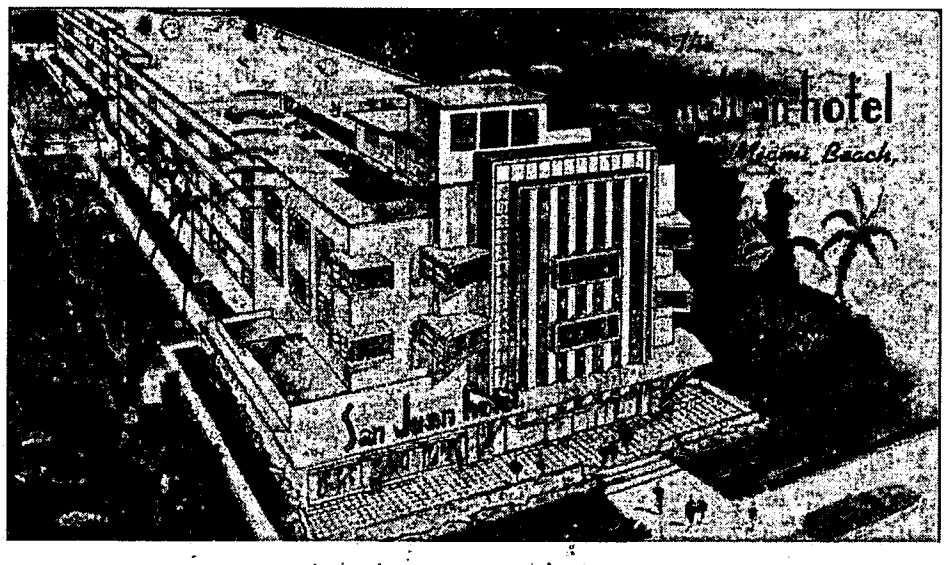
& ASSOCIATES, INC. □ STRUCTURAL ENGINEERS
2100 Ponce de Leon Boulevard □ SUITE 1020
CORAL GABLES, FLORIDA 33134
(305) 461-3450 FAX: (305) 461-3650
WWW.DOUGLASWOOD.BIZ

SUPPLEMENTAL STRUCTURAL CALCULATIONS

FOR

SAN JUAN HOTEL
1680 COLLINS AVENUE
MIAMI BEACH, FL

SEPTEMBER 17, 2014



VOLUME 1
(PAGE 1 – 13)

DOUGLAS SCOTT WOOD
LICENSE
No. 32092
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
DOUGLAS WOOD, P.E.
P.E. # 32092

9/17/14

TABLE OF CONTENTS

VOLUME 1

	PAGE
1- FBC WIND LOADS	1-6
2- DESIGN OF HSS 4X2X1/4 WINDOW MULLION	7-8
3- DESIGN OF HILTI ANCHOR BOLT CONNECTION	9-13

001

STRUCTURAL CALCULATIONS

FOR

SAN JUAN HOTEL

1680 COLLINS AVE, MIAM BEACH, FL

Company
Address
City, State
Phone

JOB TITLE SAN JUAN HOTEL

JOB NO. 13073 SHEET NO.
CALCULATED BY WM DATE
CHECKED BY DATE

www.struware.com

002

Code Search

Code: Florida Building Code 2010 - High Velocity Zone

Occupancy:

Occupancy Group = B Business

Risk Category & Importance Factors:

Risk Category =	II	
Wind factor =	1.00	use 0.60 NOTE: Output will be nominal wind pressures
Snow factor =	1.00	
Seismic factor =	1.00	

Type of Construction:

Fire Rating:

Roof =	0.0 hr
Floor =	0.0 hr

Building Geometry:

Roof angle (θ)	0.00 / 12	0.0 deg
Building length (L)	203.0 ft	
Least width (B)	50.0 ft	
Mean Roof Ht (h)	36.0 ft	
Parapet ht above grd	38.0 ft	
Minimum parapet ht	2.0 ft	

Live Loads:

Roof

0 to 200 sf:	30 psf
200 to 600 sf:	30 psf
over 600 sf:	30 psf

Floor:

Typical Floor	50 psf
Partitions	15 psf
Corridors above first floor	80 psf
Lobbies & first floor corridors	100 psf
Balconies (exterior)	100 psf

Company
Address
City, State
Phone

JOB TITLE SAN JUAN HOTEL

JOB NO. 13073 SHEET NO.
CALCULATED BY WM DATE
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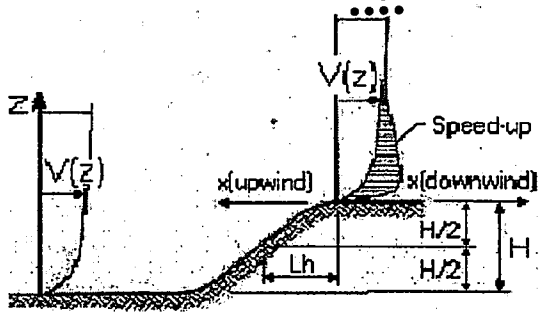
Wind Loads :

Ultimate Wind Speed	175 mph
Directionality (Kd)	0.85
Exposure Category	C
Enclosure Classif.	Enclosed Building
Internal pressure	+/-0.18
Kh case 1	1.021
Kh case 2	1.021
Type of roof	Monoslope

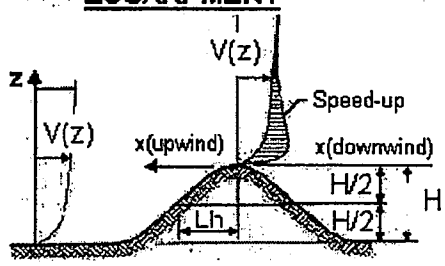
Topographic Factor (Kzt)

Topography		Flat
Hill Height	(H)	0.0 ft
Half Hill Length (Lh)		0.0 ft
Actual H/Lh	=	0.00
Use H/Lh	=	0.00
Modified Lh	=	0.0 ft
From top of crest: x =		0.0 ft
Bldg up/down wind?		upwind

H< 15ft;exp C
\ Kzt=1.0



ESCARPMENT



2D RIDGE or 3D AXISYMMETRICAL HILL

H/Lh= 0.00	K_1 =	0.000
x/Lh = 0.00	K_2 =	0.000
z/Lh = 0.00	K_3 =	1.000
At Mean Roof Ht:		
	Kzt = $(1+K_1K_2K_3)^2$ =	1.00

Gust Effect Factor

h =	36.0 ft
B =	50.0 ft
/z (0.6h) =	21.6 ft

Flexible structure if natural frequency < 1 Hz (T > 1 second).
However, if building h/B < 4 then probably rigid structure (rule of thumb).
h/B = 0.72 Rigid structure

G = 0.85 Using rigid structure default

Rigid Structure

$\bar{e}$ =	0.20
ℓ =	500 ft
z_{min} =	15 ft
c =	0.20
g_Q, g_v =	3.4
L_z =	459.4 ft
Q =	0.91
I_z =	0.21
G =	0.88 use G = 0.85

Flexible or Dynamically Sensitive Structure

Natural Frequency (η_1) =	0.0 Hz			
Damping ratio (β) =	0			
/b =	0.65			
/α =	0.15			
Vz =	156.3			
N_1 =	0.00			
R_n =	0.000			
R_h =	28.282	η =	0.000	h = 36.0 ft
R_B =	28.282	η =	0.000	
R_L =	28.282	η =	0.000	
g_R =	0.000			
R =	0.000			
G =	0.000			

Company
Address
City, State
Phone

JOB TITLE SAN JUAN HOTEL

JOB NO. 13073 SHEET NO.
CALCULATED BY WM DATE
CHECKED BY DATE

004

Enclosure Classification

Test for Enclosed Building: A building that does not qualify as open or partially enclosed.

Test for Open Building: All walls are at least 80% open.
Ao ≥ 0.8Ag

Test for Partially Enclosed Building:

	Input			Test	
Ao	0.0	sf	Ao ≥ 1.1Aoi	YES	
Ag	0.0	sf	Ao > 4' or 0.01Ag	NO	
Aoi	0.0	sf	Aoi / Agi ≤ 0.20	NO	Building is NOT Partially Enclosed
Agi	0.0	sf			

Conditions to qualify as Partially Enclosed Building. Must satisfy all of the following:
Ao ≥ 1.1Aoi
Ao > smaller of 4' or 0.01 Ag
Aoi / Agi ≤ 0.20
Where:
Ao = the total area of openings in a wall that receives positive external pressure.
Ag = the gross area of that wall in which Ao is identified.
Aoi = the sum of the areas of openings in the building envelope (walls and roof) not including Ao.
Agi = the sum of the gross surface areas of the building envelope (walls and roof) not including Ag.

Reduction Factor for large volume partially enclosed buildings (Ri) :

If the partially enclosed building contains a single room that is unpartitioned, the internal pressure coefficient may be multiplied by the reduction factor Ri.

Total area of all wall & roof openings (Aog): 0 sf
Unpartitioned internal volume (Vi) : 0 cf
Ri = 1.00

Altitude adjustment to constant 0.00256 (caution - see code) :

Altitude = 0 feet
Constant = 0.00256
Average Air Density = 0.0765 lbm/ft^3

Company
Address
City, State
Phone

JOB TITLE SAN JUAN HOTEL

JOB NO. 13073 SHEET NO.
CALCULATED BY WM DATE
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Wind Loads - Components & Cladding : h <= 60'

Nominal Wind Pressures

005

Kh (case 1) =	1.02	h =	36.0 ft
Base pressure (qh) =	**40.8 psf**	a =	5.0 ft
Minimum parapet ht =	2.0 ft	GCpi =	+/-0.18
Roof Angle (θ) =	0.0 deg		
Type of roof =	Monoslope		

Roof

	GCp +/- GCpi			Surface Pressure (psf)			User input	
Area	10 sf	50 sf	100 sf	10 sf	50 sf	100 sf	10 sf	48 sf
Negative Zone 1	-1.18	-1.11	-1.08	-48.2	-45.3	-44.1	-48.2	-45.4
Negative Zone 2	-1.98	-1.49	-1.28	-80.8	-60.8	-52.2	-80.8	-61.3
Negative Zone 3	-2.98	-1.79	-1.28	-121.6	-73.1	-52.2	-121.6	-74.4
Positive All Zones	0.48	0.41	0.38	19.6	16.7	15.5	19.6	16.8
Overhang Zone 1&2	-1.70	-1.63	-1.60	-69.4	-66.5	-65.3	-69.4	-66.6
Overhang Zone 3	-2.80	-1.40	-0.80	-114.3	-57.2	-32.6	-114.3	-58.7

Overhang pressures in the table above assume an internal pressure coefficient (Gcpi) of 0.0
Overhang soffit pressure equals adjacent wall pressure minus internal pressure of -7.3 / 7.3 psf

Parapet

qp = 41.3 psf

CASE A = pressure towards building (pos)
CASE B = pressure away from bldg (neg)

	Surface Pressure (psf)			User input
Solid Parapet Pressure	10 sf	100 sf	500 sf	40 sf
CASE A : Interior zone:	111.5	76.0	71.4	90.1
Corner zone:	152.7	76.0	71.4	106.5
CASE B : Interior zone:	-78.0	-64.9	-55.7	-70.1
Corner zone:	-89.2	-69.5	-55.7	-77.3

Walls

	GCp +/- GCpi			Surface Pressure (psf)			User input	
Area	10 sf	100 sf	500 sf	10 sf	100 sf	500 sf	26 sf	15 sf
Negative Zone 4	-1.17	-1.01	-0.90	-47.7	-41.3	-36.7	-45.1	-46.6
Negative Zone 5	-1.44	-1.12	-0.90	-58.8	-45.8	-36.7	-53.4	-56.5
Positive Zone 4 & 5	1.08	0.92	0.81	44.1	37.6	33.1	41.4	42.9

Note: GCp reduced by 10% due to roof angle <= 10 deg.

ULT.
-77.7 PSF
-94.2 PSF
71.5 PSF

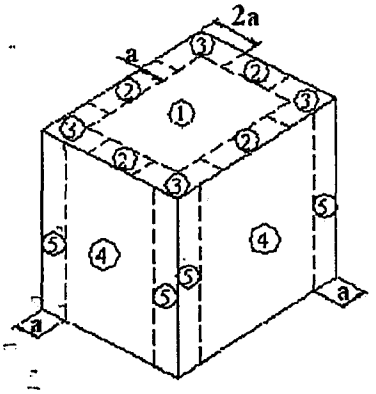
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City, State
Phone

JOB TITLE SAN JUAN HOTEL

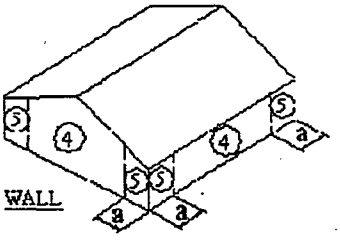
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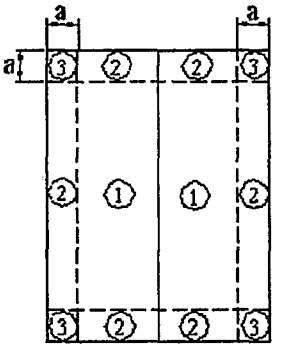
Location of C&C Wind Pressure Zones



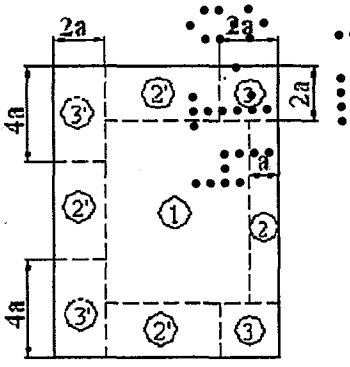
Roofs w/ $\theta \leq 10°$ and all walls
h > 60'



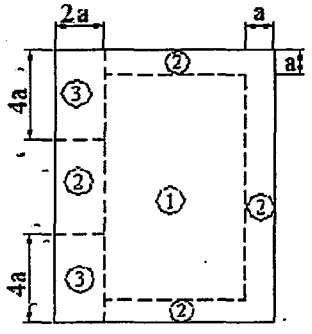
Walls h ≤ 60' & alt design h<90'



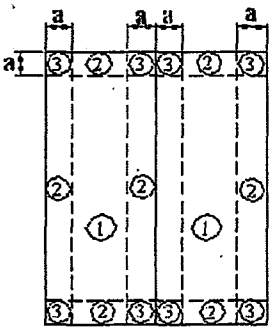
Gable, Sawtooth and Multispan Gable $\theta \leq 7$ degrees & *Monoslope* ≤ 3 degrees
h ≤ 60' & alt design h<90'



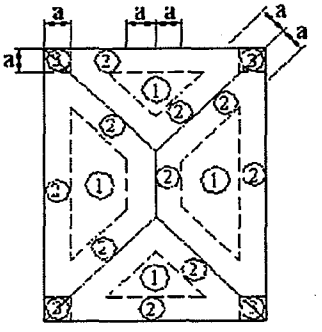
Monoslope roofs
$3° < \theta \leq 10°$
h ≤ 60' & alt design h<90'



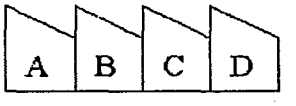
Monoslope roofs
$10° < \theta \leq 30°$
h ≤ 60' & alt design h<90'

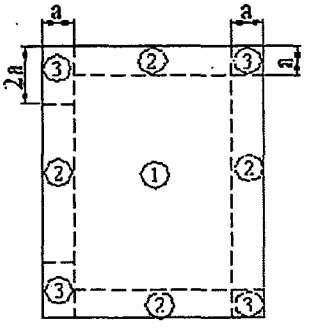


Multispan Gable & #REF! $< \theta \leq 45°$

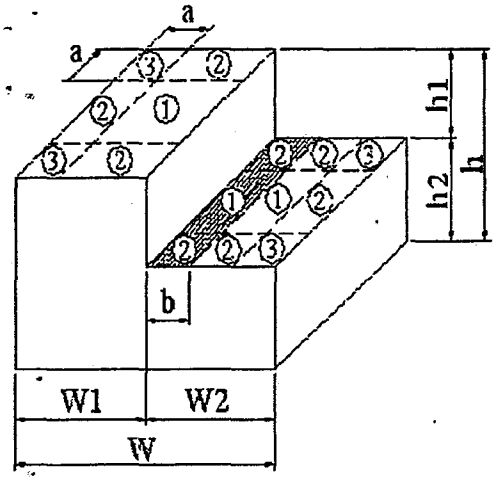


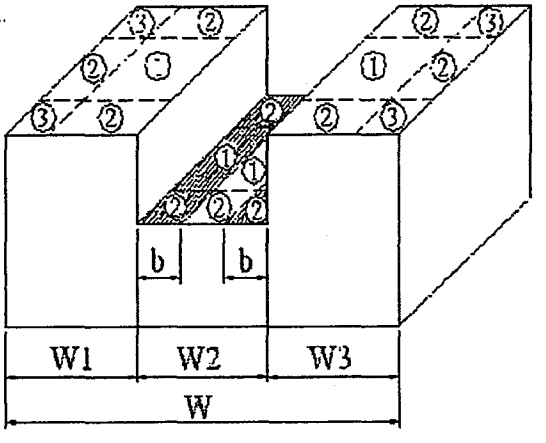
Hip $7° < \theta \leq 27°$





Sawtooth $10° < \theta \leq 45°$
h ≤ 60' & alt design h<90'





Stepped roofs. $\theta \leq 3°$
h ≤ 60' & alt design h<90'

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STRUCTURAL ENGINEERS
2100 PONCE DE LEON BLVD. ■ SUITE 1020
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DESIGN CALCULATIONS

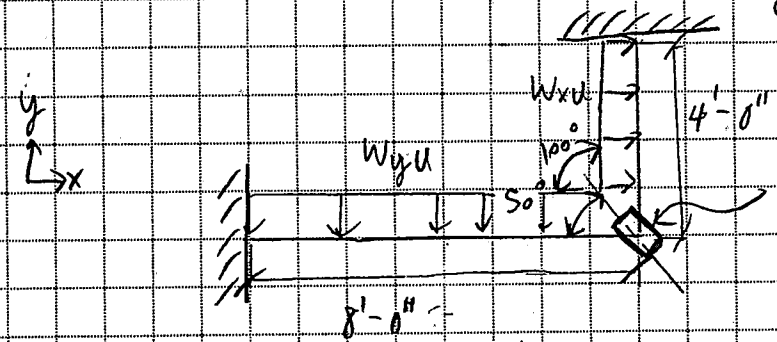
JOB 13073 - SAN JUAN HOTEL
SHEET NO. _____ OF _____
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SCALE 1/4" = 1'-0"

DESIGN OF HSS 4x2x¼ WINDOW MULLION

007

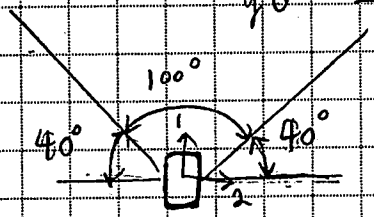
$P_{ULT} = 94.8\ PSF \approx 95\ PSF$ $\quad H = 4.75'$

WORST TRIBUTARY AREA → WINDOW TYPE A1 (SOUTHEAST CORNER FAÇADE WINDOW BOX)



$$W_{xU} = \frac{4'(95)}{2} = 190\ PLF \quad (ULT.)$$

$$W_{yU} = \frac{8'(95)}{2} = 380\ PLF$$



$W_{1y} = 380(\cos 40°) = 291\ PLF \quad (ULT.)$

$W_{1x} = 190(\cos 40°) = 146\ PLF$

$W_{2y} = 380(\sin 40°) = 244\ PLF$

$W_{2x} = 190(\sin 40°) = 122\ PLF$

Comb. of $W_1 + W_2$:

$$M_u = \frac{(291+146)\cdot 0.75 \times 4.75^2}{8} = 9241\ lb\text{-}ft = 11.1\ K\text{-}in\ (MAJOR)$$

$$M_u = \frac{(244+122)\cdot 0.75 \times 4.75^2}{8} = 7741\ lb\text{-}ft = 9.29\ K\text{-}in\ (MINOR)$$

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SCALE _____

008

Z_{MAJOR}

$\phi M_n = 0.9(2.44)(46) = 122\ k\text{-}in$

$= 0.9(1.79)(46) = 74\ k\text{-}in$

Z_{MINOR}

CAP. RATIO $\rightarrow \frac{11.1}{122} + \frac{9.29}{74} = 0.22 << 1.0$, O.K.

REACTIONS FOR MULTI PROFIS:

$V_{ASD\,1} = \frac{(291+146)\cdot 0.75\cdot 0.6\cdot 4.75'}{2} = 467\ lbs$

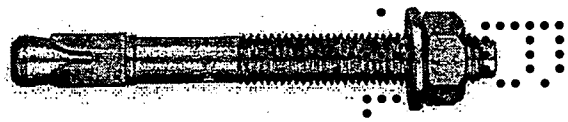
$V_{ASD\,2} = \frac{(244+122)\cdot 0.75\cdot 0.6\cdot 4.75'}{2} = 391\ lbs$

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Specifier's comments:

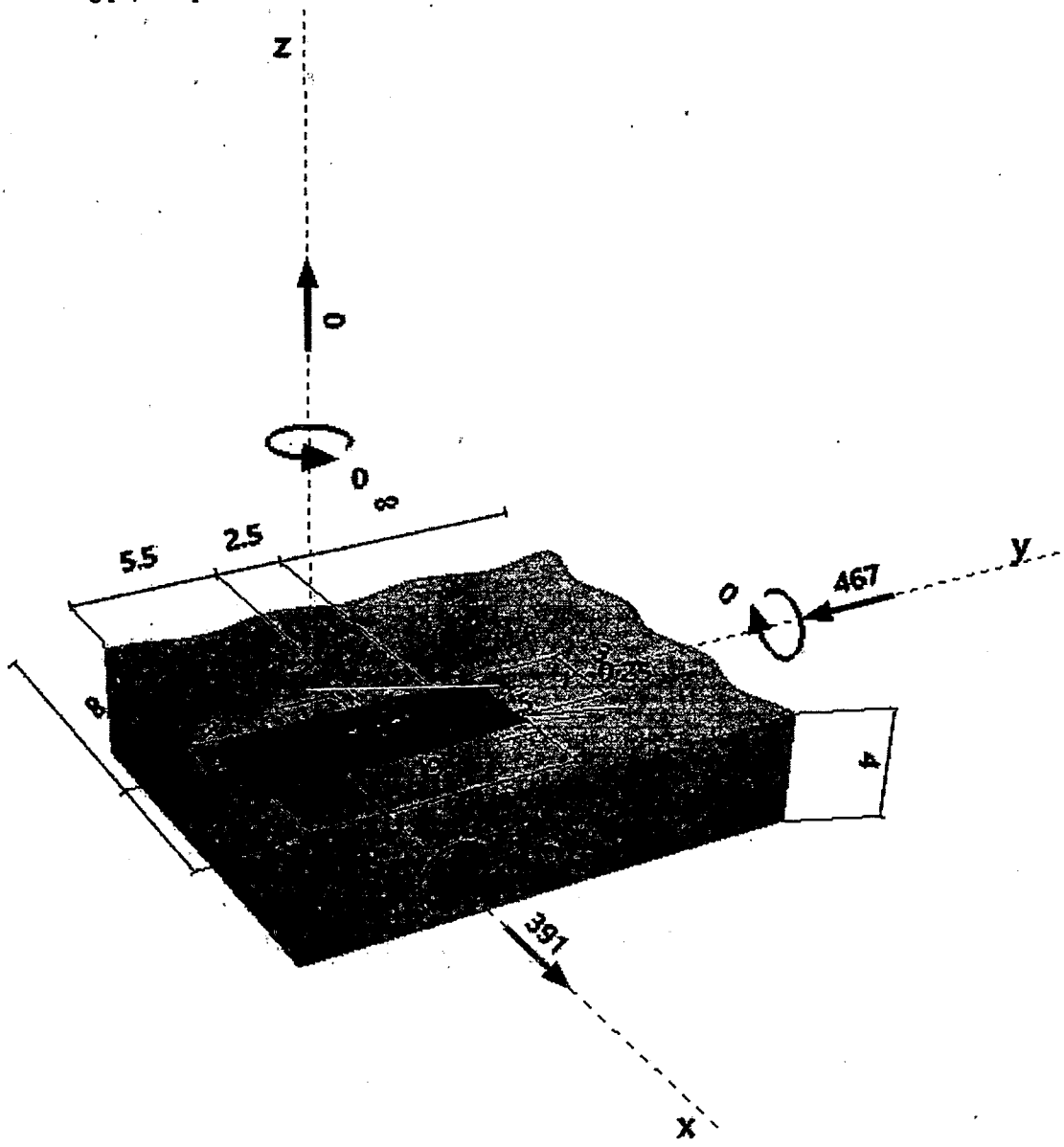
1. Input data

Anchor type and diameter:	**Kwik Bolt 3 - SS, 3/8**
Effective embedment depth:	h_{ef} = 1.625 in.
Material:	AISI 304
Proof:	design method Hilti ASD
Stand-off installation:	e_b = 0.000 in. (no stand-off); t = 0.250 in.
Anchor plate:	l_x x l_y x t = 3.000 x 9.000 x 0.250 in. (Recommended plate thickness: not calculated)
Profile	Rectangular HSS (AISC); (L x W x T) = 4.000 in. x 2.000 in. x 0.250 in.
Base material:	uncracked concrete , 2500, f_c' = 2500 psi; h = 4.000 in.
Reinforcement:	-



009

Geometry [in.] & Loading [lb, in.-lb]



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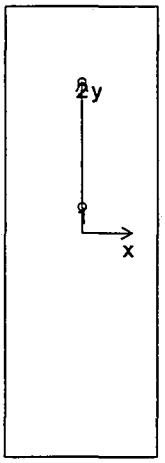
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2. Resulting anchor forces

Load case (governing):

Anchor reactions [lb]
Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	0	816	782	-234
2	0	455	-391	-234



max. concrete compressive strain [‰]: 0.00
max. concrete compressive stress [psi]: 0
resulting tension force in (x/y)=(0.000/0.000) [lb]: 0
resulting compression force in (x/y)=(0/0) [lb]: 0

3. Forces on the highest loaded anchor 1

	Design values [lb]		Utilization [%]	
Proof	Load	Capacity	β_N / β_V	Status
Shear load without lever arm	816	938	- / 87	OK

4. Combined tension and shear loads

β_N	β_V	α	Utilization $\beta_{N,V}$ [%]	Status
0.000	0.870	1.667	-	OK

$\beta_N^{\alpha} + \beta_V^{\alpha} <= 1$

5. Details

$f_{A,N}$	$f_{A,V}$	f_{RN}	f_{RV}	$Use_{shear,thread,red}$
0.772	0.943	1.000	1.000	yes

all N_c [lb]	all V_c [lb]	all N_s	all V_s	all M [in.-lb]	N_{res} [lb]	V_{res} [lb]
637	995	-	-	328.377	0	938

6. Warnings

- Refer to the manufacturer's product literature for cleaning and installation instructions.
- Load re-distributions on the anchors due to elastic deformations of the anchor plate are not considered. The anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the loading!

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Fastening meets the design criteria!

..:011

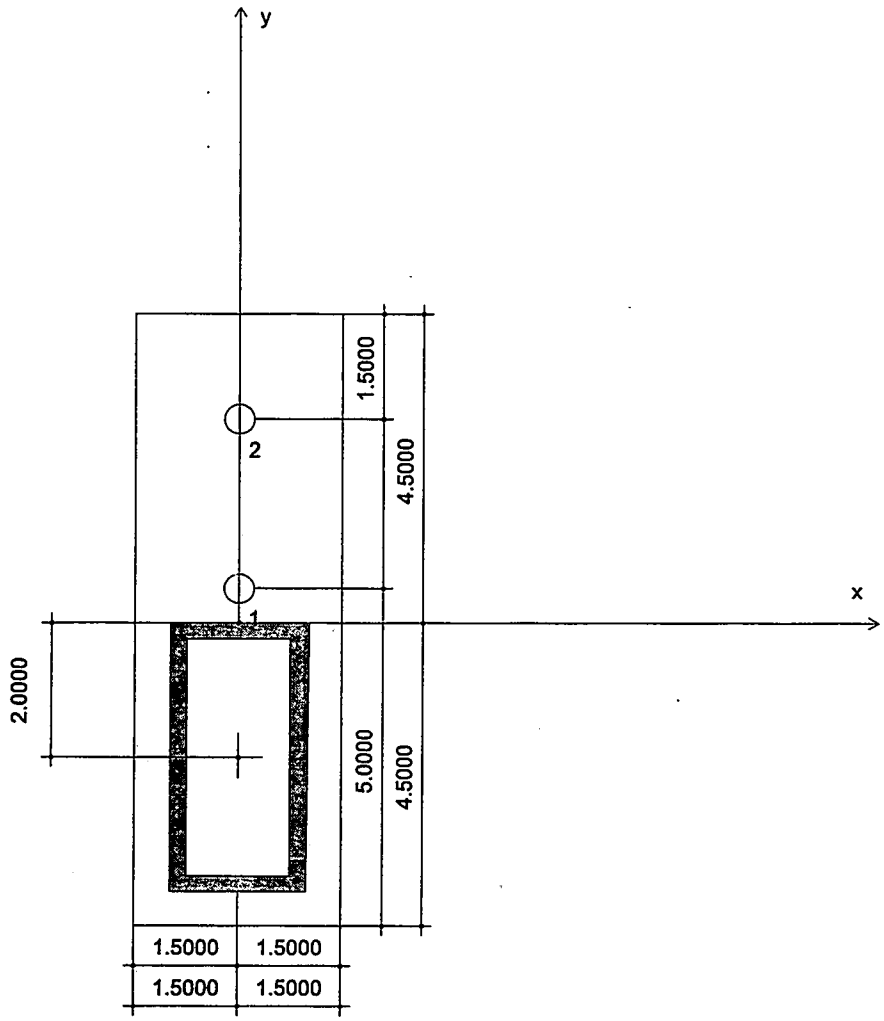
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7. Installation data

Anchor plate, steel: -
Profile: Rectangular HSS (AISC), 4.000 in. x 2.000 in. x 0.250 in.
Hole diameter in the fixture: d_f = 0.438 in.
Plate thickness (input): 0.250 in.
Recommended plate thickness: not calculated

Anchor type and diameter: Kwik Bolt 3 - SS, 3/8
Installation torque: 240.000 in.-lb
Hole diameter in the base material: 0.375 in.
Hole depth in the base material: 1.625 in.
Minimum thickness of the base material: 3.000 in.

012



Coordinates Anchor [in.]

Anchor	x	y	c_{-x}	c_{+x}	c_{-y}	c_{+y}
1	0.000	0.500	-	5.000	5.500	-
2	0.000	3.000	-	5.000	8.000	-

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8. Remarks; Your Cooperation Duties

- Any and all information and data contained in the Software concern solely the use of Hilti products and are based on the principles, formulas and security regulations in accordance with Hilti's technical directions and operating, mounting and assembly instructions, etc., that must be strictly complied with by the user. All figures contained therein are average figures, and therefore use-specific tests are to be conducted prior to using the relevant Hilti product. The results of the calculations carried out by means of the Software are based essentially on the data you put in. Therefore, you bear the sole responsibility for the absence of errors, the completeness and the relevance of the data to be put in by you. Moreover, you bear sole responsibility for having the results of the calculation checked and cleared by an expert, particularly with regard to compliance with applicable norms and permits, prior to using them for your specific facility. The Software serves only as an aid to interpret norms and permits without any guarantee as to the absence of errors, the correctness and the relevance of the results or suitability for a specific application.
- You must take all necessary and reasonable steps to prevent or limit damage caused by the Software. In particular, you must arrange for the regular backup of programs and data and, if applicable, carry out the updates of the Software offered by Hilti on a regular basis. If you do not use the AutoUpdate function of the Software, you must ensure that you are using the current and thus up-to-date version of the Software in each case by carrying out manual updates via the Hilti Website. Hilti will not be liable for consequences, such as the recovery of lost or damaged data or programs, arising from a culpable breach of duty by you.

013

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MIAMIBEACH

Building Department
1700 Convention Center Drive, 2nd Flr
Miami Beach, Fl 33139

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

I have been retained by: San Juan Hotel to perform special inspector services under the Florida Building Code at the 1680 Collins Avenue, Miami Beach, FL project on the below listed structures as of 04/21/2014 (date). I am a professional engineer licensed in the State of Florida.

Process Number: BK035666 **Master Permit (IF APPLICABLE):** _____

- ○ Special Inspector for Pilings, FBC 1822.1.20
- ○ Special Inspector for Lightweight Insulating Concrete, FBC 1917.2
- ○ Special Inspector for Soil Compaction, FBC 1820.3.1
- ○ Special Inspector for Precast Units and Attachments, FBC 1927.12.2 (By P.E. or R.A..)
- ⊗ Special Inspector for Reinforced Masonry, FBC 2122.4 (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 WELDED REINF. BARS 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. Douglas Wood, P.E. 2. Robert Santiago, P.E. 3. Marcos Perez, P.E. 4. Jorge Ruiz, P.E. 5. Maher Oueslati, E.I. 6. Navid Nemati, E.I., PhD. 7. Ricardo Fernandez, E.I.
1. _____ 2. _____
3. 8. Daniel Chaviano, E.I. 9. Wilfredo Melendez, E.I. 10. Alfredo Morales, E.I. 4. 11. Julio Monatno 12. Rogelio Martinez 13. Noel Ramirez, E.I.

* 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. Further, 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 sealed 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.

DOUGLAS WOOD LICENSE No. 32092 STATE OF FLORIDA PROFESSIONAL ENGINEER APR 21 2014

Signed and Sealed
PE-32092 / EB6358
License Number

Date: 04/21/2014

Architect/Engineer Signature: Douglas Wood, P.E., SECB for:
Architect/Engineer Name Printed: Douglas Wood Associates, Inc.
Address: 2100 Ponce de Leon Blvd., #1020, Coral Gables, FL 33134
Phone Number: (305) 461-3450
Owner/Agent Signature: _____
Owner/Agent Name Printed: _____
Building Department Accepted By: AV 7/9/14

B1403807

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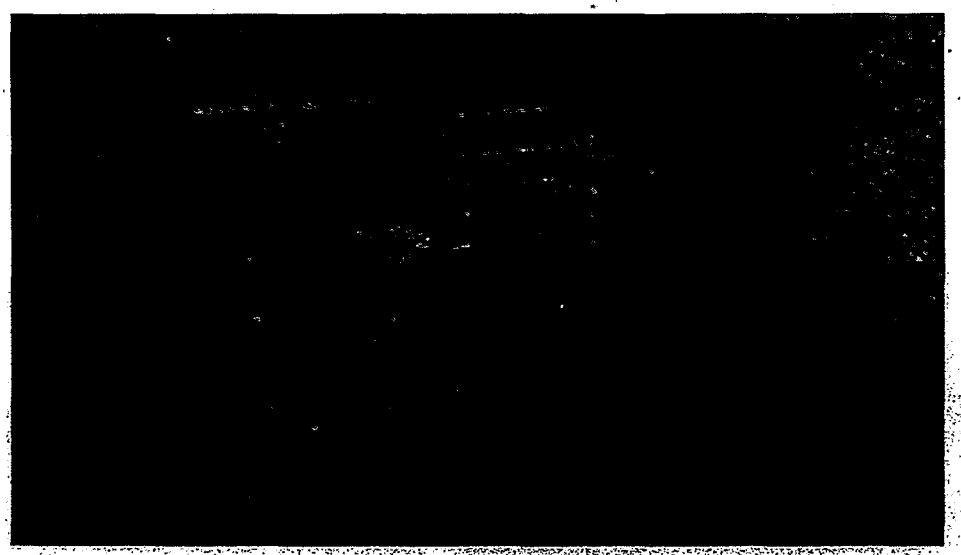
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2100 Ponce de Leon Boulevard □ SUITE 1020
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STRUCTURAL CALCULATIONS

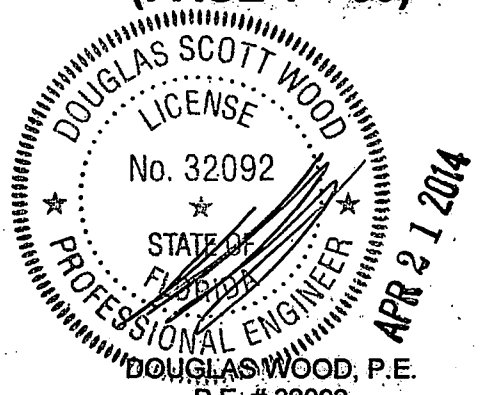
FOR

SAN JUAN HOTEL
1680 COLLINS AVENUE
MIAMI BEACH, FL

APRIL 21, 2014



VOLUME 1
(PAGE 1 – 50)



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P.E. # 32092

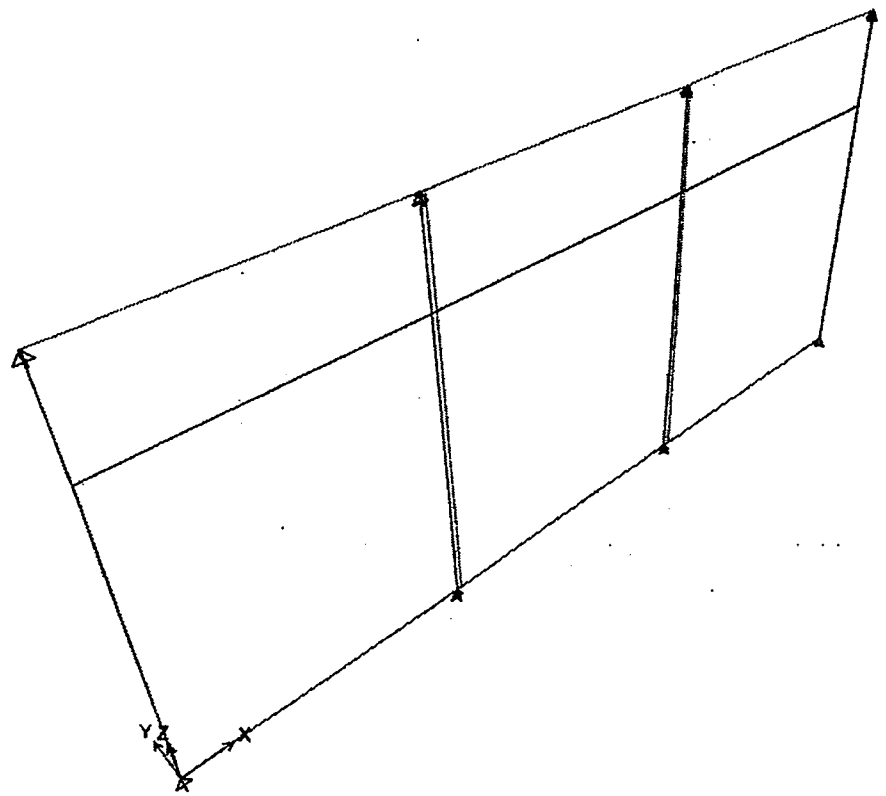
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ETABS® 2013

Integrated Building Design Software



San Juan Pool Door Framing

Model File: 20131204- NEW STEEL COL, CONC. BEAM, Revision 0

4/21/2014

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004

1 Structure Data

This chapter provides model geometry information, including items such as story levels, point coordinates, and element connectivity.

1.1 Story Data

Table 1.1 - Story Data

2ND FLOOR	171.75	171.75	Yes	None	No
Base	0	0	No	None	No

1.2 Grid Data

Table 1.2 - Grid Systems

G1	Cartesian	Default	0	0	0	60	ffa0a0a0

Table 1.3 - Grid Lines

G1	X	A	Yes	End	0
G1	X	B	Yes	End	9.625
G1	X	C	Yes	End	19.638
G1	X	D	Yes	End	29.66
G1	Y	1	Yes	Start	0

1.3 Point Coordinates

Table 1.4 - Joint Coordinates Data

1	0	0	0
19	156.16	0	0
20	175.578	0	39.9996
21	156.16	0	39.9996
5	0	0	71.9996
17	156.16	0	71.9996
10	0	0	42.9996
16	156.16	0	42.9996
2	113.5	0	71.9996
22	156.16	0	71.9996
6	113.5	0	0
24	156.16	0	0
8	113.5	0	42.9996
23	156.16	0	42.9996

2 Properties

This chapter provides property information for materials, frame sections, shell sections, and links.

2.1 Materials

Table 2.1 - Material Properties - Summary

5000Psi	Concrete	4030508.7	0.2	150	Fc=5000 lb/in²
A615Gr60	Rebar	29000000	0.3	490	Fy=60000 lb/in², Fu=90000 lb/in²

2.2 Frame Sections

Table 2.2 - Frame Sections - Summary

BM8X50	5000Psi	Concrete Rectangular
COL12X12	5000Psi	Concrete Rectangular

006

3 Assignments

This chapter provides a listing of the assignments applied to the model.

3.1 Frame Assignments

Table 3.1 - Frame Assignments - Summary

2ND FLOOR	C1	17	Column	99.7504	COL12X12	COL12X12	180		3
2ND FLOOR	C2	18	Column	74.9996	COL12X12	COL12X12	180		3
2ND FLOOR	C10	23	Column	99.7504	COL12X12	COL12X12	180		3
2ND FLOOR	C11	24	Column	74.9996	COL12X12	COL12X12	180		3
2ND FLOOR	C3	19	Column	99.7504	COL12X12	COL12X12	180		3
2ND FLOOR	C4	20	Column	74.9996	COL12X12	COL12X12	180		3
2ND FLOOR	C5	21	Column	99.7504	COL12X12	COL12X12	180		3
2ND FLOOR	C6	22	Column	74.9996	COL12X12	COL12X12	180		3
2ND FLOOR	B4	14	Beam	122.504	BM8X50	BM8X50		24	
2ND FLOOR	B5	12	Beam	118.5	BM8X50	BM8X50		24	
2ND FLOOR	B11	11	Beam	120.156	BM8X50	BM8X50		24	

007

4 Loads

This chapter provides loading information as applied to the model.

4.1 Load Patterns

Table 4.1 - Load Patterns

Dead	Dead	1	
Live	Live	0	
W2	Wind	0	User Loads

4.2 Applied Loads

4.2.1 Line Loads

Table 4.2 - Frame Loads - Distributed (Part 1 of 2)

2ND FLOOR	C1	17	Column	W2	Force	Global-Y	0	1	0	99.7504
2ND FLOOR	C10	23	Column	W2	Force	Global-Y	0	1	0	99.7504
2ND FLOOR	C3	19	Column	W2	Force	Global-Y	0	1	0	99.7504
2ND FLOOR	C5	21	Column	W2	Force	Global-Y	0	1	0	99.7504
2ND FLOOR	B4	14	Beam	Dead	Force	Gravity	0	1	0	122.504
2ND FLOOR	B5	7	Beam	Dead	Force	Gravity	0	1	0	113.5
2ND FLOOR	B11	11	Beam	Dead	Force	Gravity	0	1	0	120.156
2ND FLOOR	B4	14	Beam	Live	Force	Gravity	0	1	59.149	59.149
2ND FLOOR	B4	14	Beam	Live	Force	Gravity	0.482833	1	59.149	122.504
2ND FLOOR	B5	7	Beam	Live	Force	Gravity	0.537209	1	0	60.9733
2ND FLOOR	B5	7	Beam	Live	Force	Gravity	0.537209	1	60.9733	113.5
2ND FLOOR	B11	11	Beam	Live	Force	Gravity	0.518492	1	62.2999	62.2999
2ND FLOOR	B11	11	Beam	Live	Force	Gravity	0.518492	1	62.2999	120.156
2ND FLOOR	B4	14	Beam	W2	Force	Global-Y	0	0.482833	0	59.149
2ND FLOOR	B4	14	Beam	W2	Force	Global-Y	0.482833	1	59.149	122.504
2ND FLOOR	B5	7	Beam	W2	Force	Global-Y	0.537209	1	0	113.5
2ND FLOOR	B11	11	Beam	W2	Force	Global-Y	0	0.518492	0	62.2999
2ND FLOOR	B11	11	Beam	W2	Force	Global-Y	0.518492	1	62.2999	120.156

Table 4.2 - Frame Loads - Distributed (Part 2 of 2)

2ND FLOOR	C1	17	515	515
2ND FLOOR	C10	23	515	515
2ND FLOOR	C3	19	757	757
2ND FLOOR	C5	21	757	757
2ND FLOOR	B4	14	2596	2596

008

Table 4.2 - Frame Loads - Distributed (Part 2 of 2, continued)

2ND FLOOR	B5	7	2596	2596
2ND FLOOR	B11	11	2596	2596
2ND FLOOR	B4	14	740	740
2ND FLOOR	B4	14	740	740
2ND FLOOR	B5	7	740	740
2ND FLOOR	B5	7	740	740
2ND FLOOR	B11	11	740	740
2ND FLOOR	B11	11	740	740
2ND FLOOR	B4	14	387	387
2ND FLOOR	B4	14	387	387
2ND FLOOR	B5	7	468	468
2ND FLOOR	B11	11	387	387
2ND FLOOR	B11	11	387	387

$W = 468^{16}/_{ft}$ ↑ MAX. WIND DIST. LOAD ON BM'S

4.3 Load Cases

Table 4.3 - Load Cases - Summary

Dead	Linear Static
Live	Linear Static
W2	Linear Static

4.4 Load Combinations

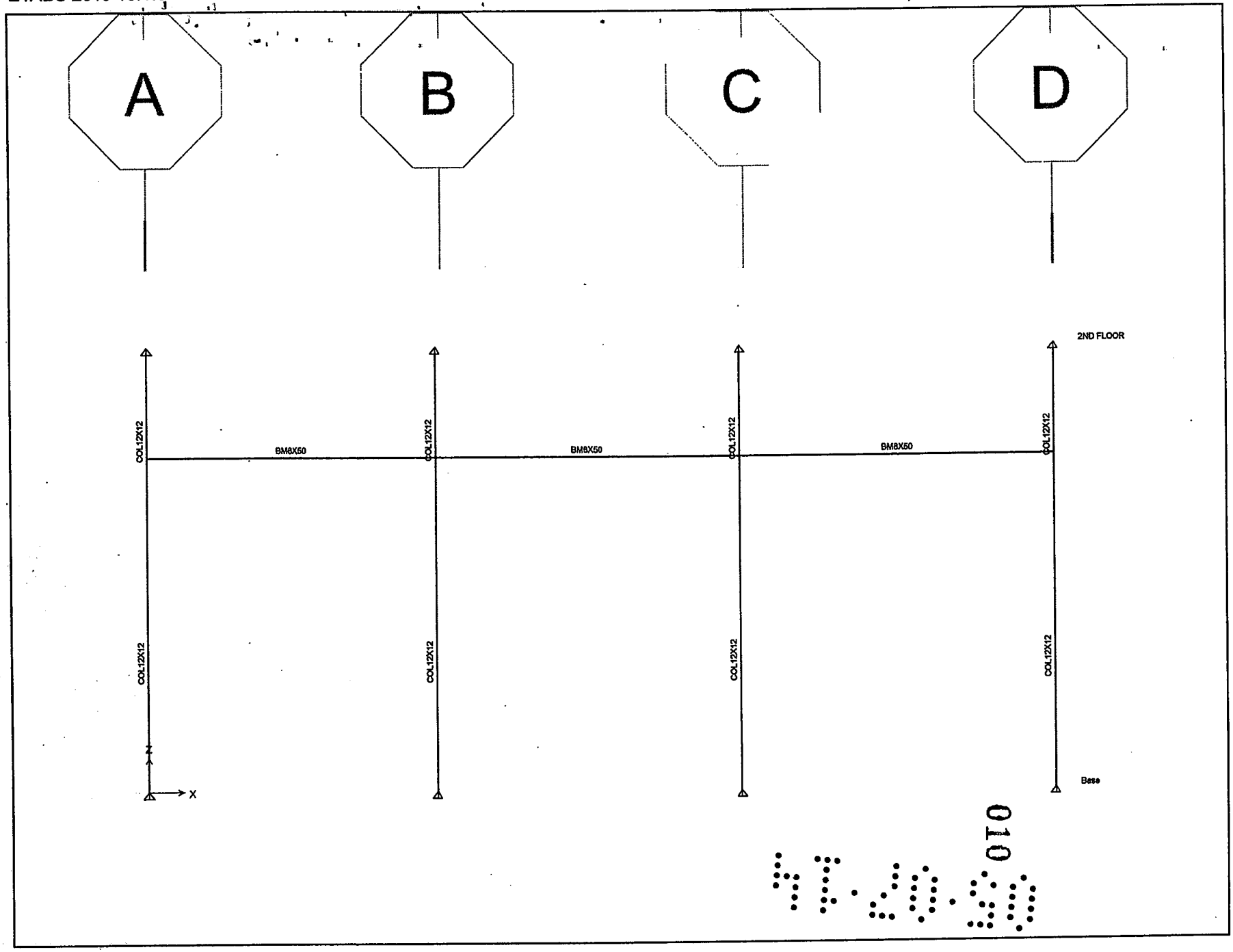
Table 4.4 - Load Combinations

DCon1	Dead	1.4	Linear Add	Yes
DCon2	Dead	1.2	Linear Add	Yes
DCon2	Live	1.6		No
DCon3	Dead	1.2	Linear Add	Yes
DCon3	Live	1		No
DCon3	W2	1		No
DCon4	Dead	1.2	Linear Add	Yes
DCon4	W2	-1		No
DCon5	Dead	1.2	Linear Add	Yes
DCon5	W2	0.5		No
DCon6	Dead	1.2	Linear Add	Yes
DCon6	W2	-0.5		No
DCon7	Dead	0.9	Linear Add	Yes
DCon7	W2	1		No
DCon8	Dead	0.9	Linear Add	Yes
DCon8	W2	-1		No

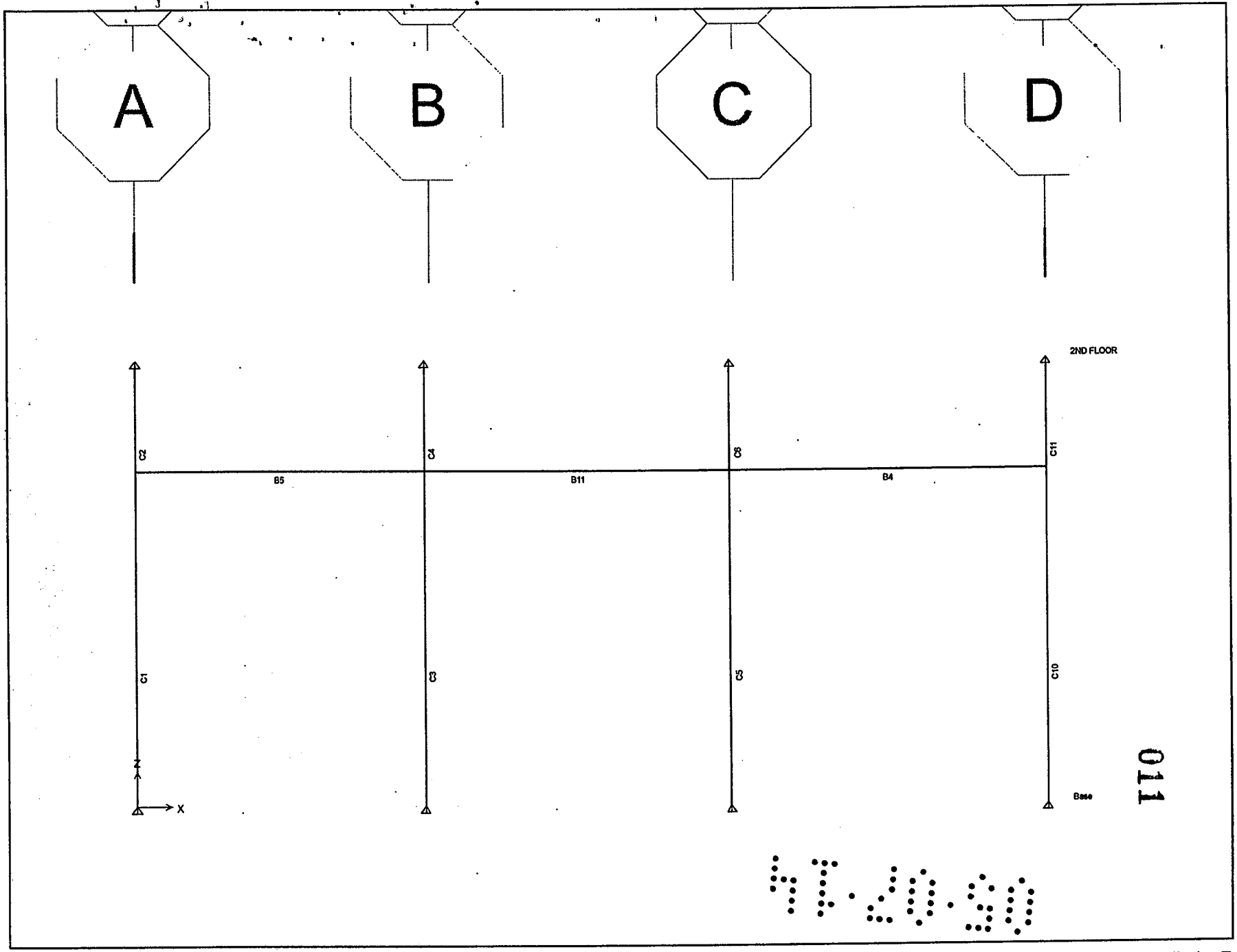
Table 4.4 - Load Combinations (continued)

DCon9	Dead	1.4	Linear Add	Yes
DCon10	Dead	1.2	Linear Add	Yes
DCon10	Live	1.6		No
DCon11	Dead	1.2	Linear Add	Yes
DCon11	Live	1		No
DCon11	W2	-1		No
DCon12	Dead	1.2	Linear Add	Yes
DCon12	Live	1		No
DCon12	W2	-1		No
DCon13	Dead	1.2	Linear Add	Yes
DCon13	W2	0.5		No
DCon14	Dead	1.2	Linear Add	Yes
DCon14	W2	-0.5		No
DCon15	Dead	0.9	Linear Add	Yes
DCon15	W2	1		No
DCon16	Dead	0.9	Linear Add	Yes
DCon16	W2	-1		No
DStlS1	Dead	1.4	Linear Add	Yes
DStlS2	Dead	1.2	Linear Add	Yes
DStlS2	Live	1		No
DStlS3	Dead	1.2	Linear Add	Yes
DStlS3	Live	1.6		No
DStlS3	W2	1		No
DStlS4	Dead	1.2	Linear Add	Yes
DStlS4	Live	1		No
DStlS4	W2	-1		No
DStlS5	Dead	0.9	Linear Add	Yes
DStlS5	W2	1		No
DStlS6	Dead	0.9	Linear Add	Yes
DStlS6	W2	-1		No
DStlD1	Dead	1	Linear Add	Yes
DStlD2	Dead	1	Linear Add	Yes
DStlD2	Live	1		No

009



010 41-20-99
ONE
3NO


A
B
C
D
2ND FLOOR
C2
C4
C8
C11
B5
B11
B4
C1
C3
C5
C10
Base
Z
X

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DESIGN CALCULATIONS

JOB 13073 - SAN JUAN HOTEL

SHEET NO. _____ OF _____

CALCULATED BY DJC DATE 4/21/14

CHECKED BY _____ DATE _____

SCALE _____

CALC. OF BM LOADS FOR ETABS

012

ROOF!

30 PSF L.L.
25 PSF D.L.

60 PSF (PARAPET)
100 PLF (EXIST BM.)

$A_T = \left(\frac{10'}{2} + \frac{10'}{2}\right)\left(\frac{13.33'}{2}\right) = 66.65\ SF$

DEAD: $100\ (10') + 25\ (66.6\ ft^2) + 60\ (2')(10') = 3876\ lbs$

LIVE: $30\ (66.6) = 2004\ lbs$

3RD FLOOR!

40 PSF L.L.
25 PSF D.L.

100 PLF (EXIST BM.)
60 PSF (CMU)

DEAD: $100\ (10') + 25\ (66.6) + 60\ (10)(10) = 8691\ lbs$

LIVE: $40\ (66.6) = 2672\ lbs$

2ND FLOOR:

40 PSF L.L.
25 PSF D.L.

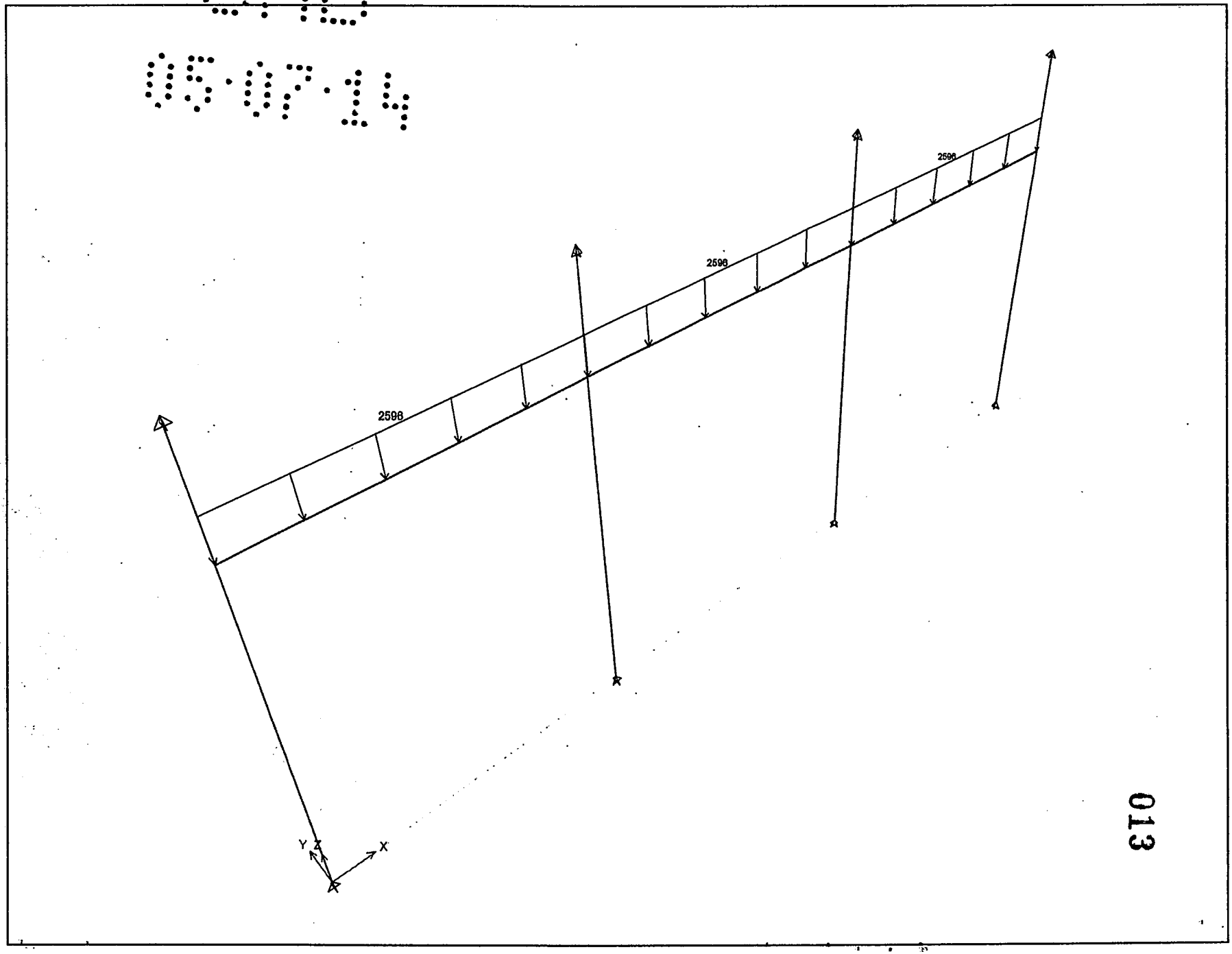
350 PLF (BM + EYEBROW)
60 PSF (CMU)

DEAD: $350\ (10') + 25\ (66.6) + 60\ (10')(10') = 11{,}209\ lbs$

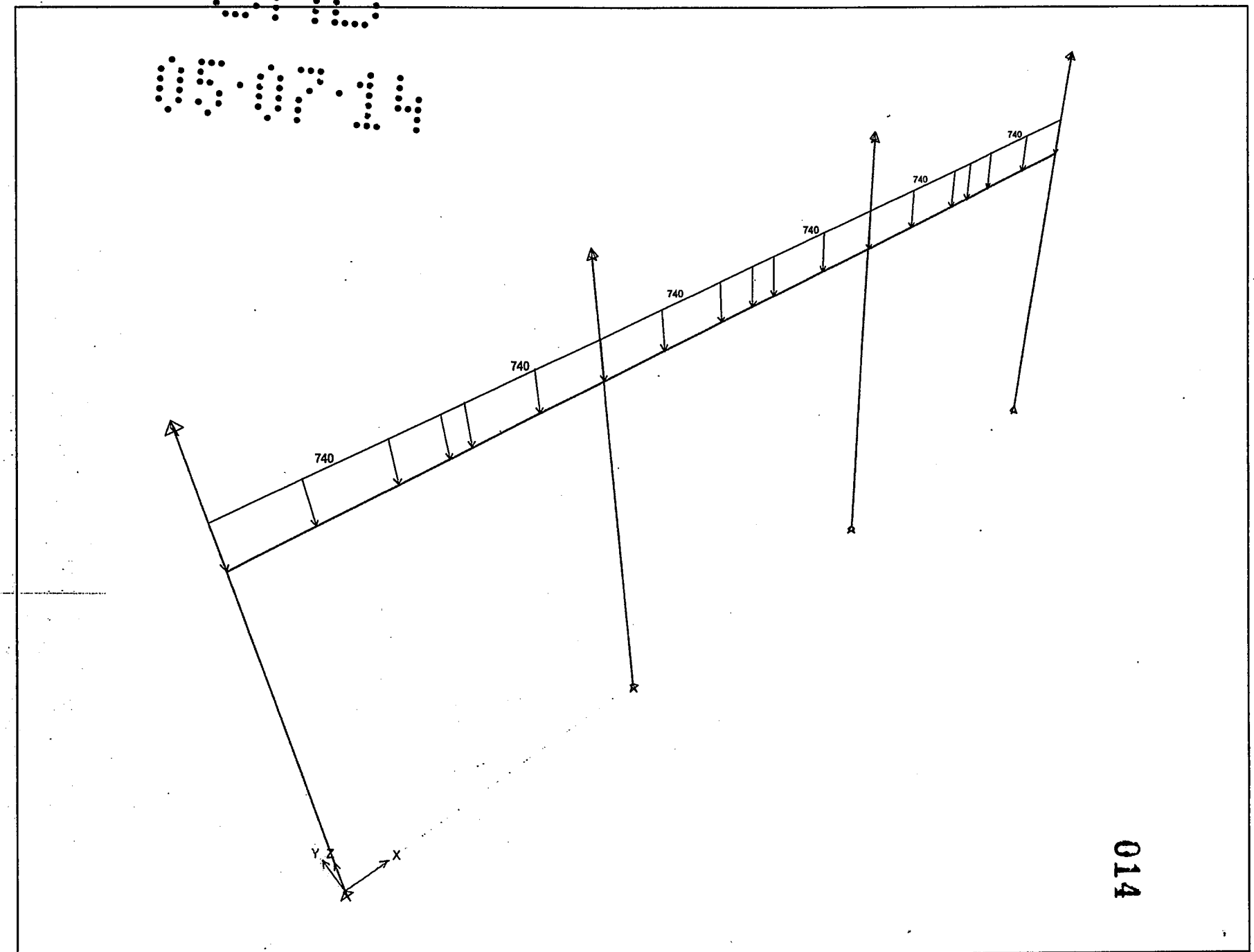
LIVE: $40\ (66.6) = 2672\ lbs$

ABOVE NEW DOORS: $200\ (10') + 3' \times 60\ (10') = 2187\ lbs$

TOTAL
- DEAD PLF: $25954 / 10' = \boxed{2596\ PLF}$
- LIVE PLF: $7348 / 10' = \boxed{740\ PLF}$

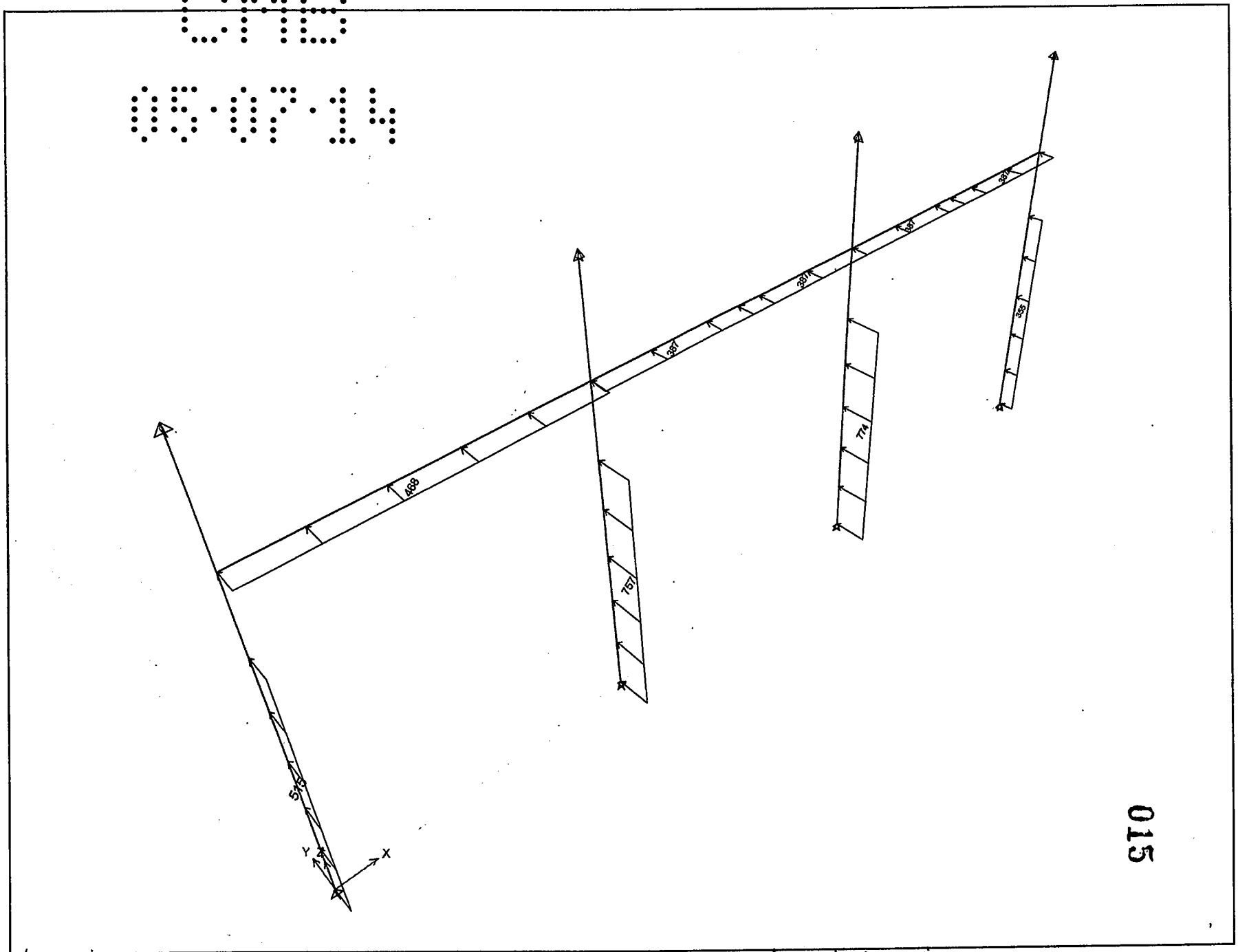


013



014

CHECKED
05-07-14


488
757
774
387
387
387

5 Design Data

This chapter provides design data and results.

016

5.1 Concrete Frame Design

Table 5.1 - Concrete Frame Preferences - ACI 318-11

Multi-Response Design	Step-by-Step - All
Seismic Design Category	D
# Interaction Curves	24
# Interaction Points	11
Minimum Eccentricity	Yes
Phi (Tension)	0.9
Phi (Compression Tied)	0.65
Phi (Compression Spiral)	0.75
Phi (Shear and Torsion)	0.85
Phi (Shear Seismic)	1.025
Phi (Shear Joint)	0.85
Pattern Live Load Factor	0.75
D/C Ratio Limit	1

Table 5.2 - Concrete Column Overwrites - ACI 318-11 (Part 1 of 2)

Story	Label	Unique Name	Design Type	Design Orientation	Length Factor	Major Direction Factor	Minor Direction Factor	Major Direction Reinforcing	Minor Direction Reinforcing	Reinforcing Configuration
2ND FLOOR	C1	17	Column	Program Determined	1	1.721798	1.721798	1	1	1
2ND FLOOR	C2	18	Column	Program Determined	1	0.697249	2.385443	1	1	1
2ND FLOOR	C10	23	Column	Program Determined	1	1.721798	1.721798	1	1	1
2ND FLOOR	C11	24	Column	Program Determined	1	0.697249	2.385443	1	1	1
2ND FLOOR	C3	19	Column	Program Determined	1	1.721798	1.721798	1	1	1
2ND FLOOR	C4	20	Column	Program Determined	1	0.697249	2.385443	1	1	1
2ND FLOOR	C5	21	Column	Program Determined	1	1.721798	1.721798	1	1	1
2ND FLOOR	C6	22	Column	Program Determined	1	0.697249	2.385443	1	1	1

Table 5.2 - Concrete Column Overwrites - ACI 318-11 (Part 2 of 2)

Story	Label	Unique Name	Confinement Bars	Check Protocol	Ductile Detailing	Joint Shear Check	Column Type
2ND FLOOR	C1	17	1	1	1	1	1
2ND FLOOR	C2	18	1	1	1	1	1
2ND FLOOR	C10	23	1	1	1	1	1
2ND FLOOR	C11	24	1	1	1	1	1
2ND FLOOR	C3	19	1	1	1	1	1
2ND FLOOR	C4	20	1	1	1	1	1
2ND FLOOR	C5	21	1	1	1	1	1
2ND FLOOR	C6	22	1	1	1	1	1

017

Table 5.3 - Concrete Beam Overwrites - ACI 318-11

2ND FLOOR	B4	14	Beam	Program Determined	1	1	1
2ND FLOOR	B5	17	Beam	Program Determined	1	1	1
2ND FLOOR	B11	11	Beam	Program Determined	1	1	1

Table 5.4 - Concrete Column PMM Envelope

C1	2ND FLOOR	COL12X12	Top	2502.719	-540.8379	-12413.6136	DCon16	1 %
C1	2ND FLOOR	COL12X12	Bottom	3624.91	-293.0316	0	DCon16	1 %
C2	2ND FLOOR	COL12X12	Top	-8927.187	-714.1749	0	DCon16	1 %
C2	2ND FLOOR	COL12X12	Bottom	-8453.41	-202.5385	9160.8467	DCon16	1 %
C10	2ND FLOOR	COL12X12	Top	2732.735	673.6645	-9879.6734	DCon16	1 %
C10	2ND FLOOR	COL12X12	Bottom	3854.927	381.6532	0	DCon16	1 %
C11	2ND FLOOR	COL12X12	Top	-9615.907	-769.2725	0	DCon16	1 %
C11	2ND FLOOR	COL12X12	Bottom	-9132.161	-280.6826	4355.7774	DCon16	1 %
C3	2ND FLOOR	COL12X12	Top	6934.356	565.9765	-19703.8548	DCon16	1 %
C3	2ND FLOOR	COL12X12	Bottom	8056.548	593.2468	0	DCon16	1 %
C4	2ND FLOOR	COL12X12	Top	-22196.496	1775.7197	0	DCon16	1 %
C4	2ND FLOOR	COL12X12	Bottom	-8474.576	270.5838	8000.6748	DCon16	1 %
C5	2ND FLOOR	COL12X12	Top	7353.482	-600.9203	-19237.9053	DCon16	1 %
C5	2ND FLOOR	COL12X12	Bottom	8475.674	624.9038	0	DCon16	1 %
C6	2ND FLOOR	COL12X12	Top	-23451.452	-1876.1162	0	DCon16	1 %
C6	2ND FLOOR	COL12X12	Bottom	-8990.32	-294.9232	8499.5001	DCon16	1 %

0.0111x12x12
11
1.6in²
#4#6 = 1.76in²

Table 5.5 - Concrete Column Shear Envelope

C1	2ND FLOOR	COL12X12	Top	64.597		0	657.809		0
C1	2ND FLOOR	COL12X12	Bottom	64.597		0	657.809		0
C2	2ND FLOOR	COL12X12	Top	565.201		0	2556.539		0
C2	2ND FLOOR	COL12X12	Bottom	565.201		0	2556.539		0
C10	2ND FLOOR	COL12X12	Top	80.408		0	296.239		0
C10	2ND FLOOR	COL12X12	Bottom	80.408		0	296.239		0
C11	2ND FLOOR	COL12X12	Top	664.385		0	1991.398		0
C11	2ND FLOOR	COL12X12	Bottom	664.385		0	1991.398		0
C3	2ND FLOOR	COL12X12	Top	7.682		0	822.939		0
C3	2ND FLOOR	COL12X12	Bottom	7.682		0	822.939		0
C4	2ND FLOOR	COL12X12	Top	52.743		0	5299.627	DCon16	0.1273
C4	2ND FLOOR	COL12X12	Bottom	52.743		0	5299.627	DCon16	0.1273
C5	2ND FLOOR	COL12X12	Top	13.908		0	951.313		0
C5	2ND FLOOR	COL12X12	Bottom	13.908		0	951.313		0
C6	2ND FLOOR	COL12X12	Top	142.341		0	5133.02	DCon16	0.1273

#3 5@ 12 O.C.

Table 5.5 - Concrete Column Shear Envelope (continued)

C6	2ND FLOOR	COL12X12	Bottom	142.341		0	5133.02	DCon16	0.1273

Table 5.6 - Concrete Beam Flexure Envelope

(2)#4's

B4	2ND FLOOR	End-I	BM8X50	-47322.9904	DCon10	0.2983	23661.4952	DCon10	0.1488
B4	2ND FLOOR	Middle	BM8X50	-11830.7476	DCon10	0.0743	23045.8033	DCon10	0.2436
B4	2ND FLOOR	End-J	BM8X50	-11830.7476	DCon10	0.0743	23045.8033	DCon10	0.145
B5	2ND FLOOR	End-I	BM8X50	-10422.1293	DCon10	0.0655	33606.6473	DCon10	0.2116
B5	2ND FLOOR	Middle	BM8X50	-10422.1293	DCon10	0.0655	33606.6473	DCon10	0.2116
B5	2ND FLOOR	End-J	BM8X50	-41688.5173	DCon10	0.2627	20844.2587	DCon10	0.1311
B11	2ND FLOOR	End-I	BM8X50	-41208.1062	DCon10	0.2596	20604.0531	DCon10	0.1296
B11	2ND FLOOR	Middle	BM8X50	-11539.0195	DCon10	0.0725	23534.0692	DCon10	0.1481
B11	2ND FLOOR	End-J	BM8X50	-46156.0779	DCon10	0.2909	23078.039	DCon10	0.1452

Table 5.7 - Concrete Beam Shear Envelope

B4	2ND FLOOR	BM8X50	End-I	20404.363	DCon10	0.0849	1950.7454	DCon16	0	1950.7454	DCon16	0
B4	2ND FLOOR	BM8X50	Middle	20423.498	DCon16	0	1950.7454	DCon16	0	1950.7454	DCon16	0
B4	2ND FLOOR	BM8X50	End-J	20423.498	DCon10	0.0849	1950.7454	DCon16	0	1950.7454	DCon16	0
B5	2ND FLOOR	BM8X50	End-I	5496.845	DCon16	0	4574.5341	DCon16	0	1574.1816	DCon16	0
B5	2ND FLOOR	BM8X50	Middle	4767.285	DCon16	0	1574.1816	DCon16	0	1574.1816	DCon16	0
B5	2ND FLOOR	BM8X50	End-J	20063.886	DCon10	0.0849	1574.1816	DCon16	0	1574.1816	DCon16	0
B11	2ND FLOOR	BM8X50	End-I	21355.871	DCon12	0.0849	91.7789	DCon16	0	91.7789	DCon16	0
B11	2ND FLOOR	BM8X50	Middle	4804.0	DCon16	0	91.7789	DCon16	0	91.7789	DCon16	0
B11	2ND FLOOR	BM8X50	End-J	22252.747	DCon12	0.0849	91.7789	DCon16	0	91.7789	DCon16	0

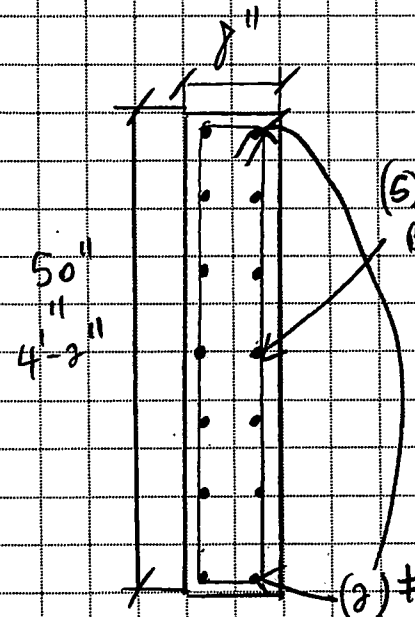
Table 5.8 - Concrete Joint Envelope

C1	2ND FLOOR	COL12X12								
C2	2ND FLOOR	COL12X12								
C10	2ND FLOOR	COL12X12								
C11	2ND FLOOR	COL12X12								
C3	2ND FLOOR	COL12X12								
C4	2ND FLOOR	COL12X12								
C5	2ND FLOOR	COL12X12								
C6	2ND FLOOR	COL12X12								

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DESIGN CALCULATIONS

JOB 13073 - SAN JUAN HOTEL.
SHEET NO. _____ OF _____
CALCULATED BY DC DATE 4/21/14.
CHECKED BY _____ DATE _____
SCALE N.T.S.

B-1 DESIGN FOR WIND



$w = 468\ lb/ft$ ← (ULTIMATE)

$M_u = 1.0\left[\frac{(468/12)(10\cdot12)}{8}\right]^2 = 703{,}200\ lb\text{-}in$

FIND ϕM_n:

$(7 \times 0.24\ in^2) = 0.75(5\ ksi)(50")\,a$

$a = 0.007"$

$\phi M_n = 0.9\left[7 \times 0.2 \times 60\left(5.875" - \frac{0.007}{2}\right)\right]$

$= 444\ k\text{-}in = 444{,}000\ lb\text{-}in$

$\phi M_n \gg M_u$ O.K. FOR FLEXURE

$\frac{\phi V_c}{2} = \frac{0.75(50 \cdot 5.875 \cdot \sqrt{5000})}{2} = 7790\ lbs$

$V_u = 468(10') = 4680 < 7790$ O.K. FOR SHEAR

SHEAR REINF. FOR DEEP BMS

(ACI 318 - 11.8) $A_v > 0.0025\, b_w \cdot s = 0.0025(50")(1.18") = 0.148\ in^2$ } WIND SHEAR

$s_{min.}$ { $d/5 = 5.875/5 = 1.175"$; $12 =$

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JOB 13073 - SAN JUAN HOTEL.

SHEET NO. _____ OF _____

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5 min $\left\{ \begin{matrix} d/5 \\ (10") \end{matrix} \right. = \frac{(50 - 1.5 - 0.375 - 0.5/2)}{5} = 9.6"$

020

$A_v = 0.0025(8")(9.6") = 0.192 in^2$

STIRRUPS → #4 @10" = $0.2 in^2 \times 2 = 0.4 in^2 > 0.192 in^2$

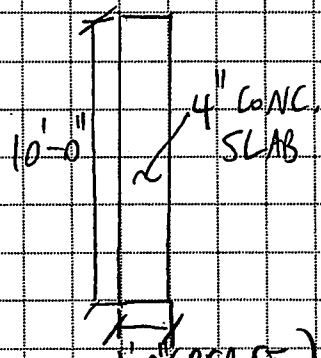
O.K.

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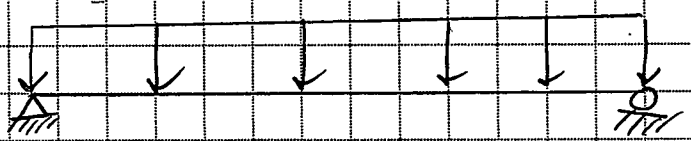
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SLAB DESIGN (ONE-WAY) - POOL BATHROOM ROOF SLAB

021



N.T.S.



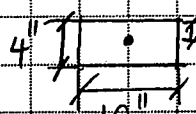
$W_u = 126$ lb/ft/ft

30 PSF LIVE LOAD
15 PSF DEAD LOAD

$f'_c = 5000$ psi

$$W_u = 1.2\left[(15 \times 1') + 150\left(\tfrac{4''}{12}\right) \times 1'\right] + 1.6\left[30 \times 1'\right] = 126 \text{ lb/ft/ft}$$

TRY #4's @ 8" $\rightarrow 0.2 \text{ in}^2 \times \left(\tfrac{12''}{8''}\right) = 0.3 \text{ in}^2/\text{ft}$



$$0.3(60) = 0.85(5)(12'')(a)$$

$$a = 0.353''$$

$$M_n = 0.3(60)\left(2'' - 0.353''/2\right) = 33 \text{ K-in} = 2.75 \text{ K-ft}$$

$$\phi M_n = 0.9(2.75) = 2.48 \text{ K-ft/ft}$$

$$M_u = \frac{126(10)^2}{8} = 1575 \text{ lb-ft} = 1.8 \text{ K-ft} < \phi M_n \quad \underline{\text{O.K.}}$$

$$M_{cr} = \frac{7.5\sqrt{5000} \cdot \frac{12 \cdot 4^2}{12}}{(4''/2)} = 42436 \text{ lb-in} = 0.354 \text{ K-ft}$$

CHECK LONG TERM DEFLECTION

Job #: San Juan Hotel
By:
Date: 11/14/2013

DEFLECTION DESIGN OF RECTANGULAR & T-SHAPED CONCRETE BEAMS

ACI 318-08, Section 9.5: Control of Deflections

Program written by Marcos R. Perez (11/10/08)

022

For rectangular sections: set flange width (bf) equal to width of beam web (bw), and set flange thickness (tf) equal to zero
For cantilever beams: set support condition to (4) and insert rebar and moment values under "LEFT" column.

INPUT

GENERAL PROPERTIES

Description =					
support condition =	3	→	support condition =	1 =	fixed left & right
				2 =	fixed left, pinned right
				3 =	pinned left & right
				4 =	cantilever (use "LEFT" column for rebar and moment values)
f_y =	60 ksi				
f'_c =	5,000 psi				
bf =	12.0 in.	flange width (see 8.10.2)			
bw =	12.0 in.	width of beam web			
h =	4.0 in.	beam depth			
t_f =	0.0 in.	flange thickness			
hw =	4.0 in.	web height			
Cct =	0.0 in.	cover to centroid top steel			
Ccb =	2.0 in.	cover to centroid bottom steel			
d' =	0.0 in.				
d =	2.0 in.				
Ln =	10.0 ft.	clear span			
P =	0 kip	axial load (comp. (+), tension (-))			
wt =	50.0 psf	system weight over width "bf"			

Es =	29,000	ksi	steel modulus (8.5.2)	
Ec =	3,834	ksi	conc. modulus (8.5.1)	
Overwrite Ec =	4,030	ksi	conc. modulus overwrite	
n =	7.6		modular ratio	
n-1 =	6.6		net modular ratio	
	6.2		modulus of rupture factor (9.5.2.3)	
P/A =	0	psi	axial stress	
f_r temp =	493	psi	modulus of rupture (9.5.2.3)	
f_r =	493	psi	effective modulus of rupture (9.5.2.3)	

		LEFT	MIDSPAN	RIGHT		
REBAR AREAS	A's =	0.00	0.00	0.00	$in.^2$	top rebar areas
	As =	0.00	0.30	0.00	$in.^2$	bottom rebar areas
SERVICE MOMENTS	M_D =	0.0	0.8	0.0	kip-ft	service DL moments
	M_{D+L} =	0.0	1.4	0.0	kip-ft	service DL + LL moments
	M_{cr} =	1.2	1.2	1.2	kip-ft	cracking moment

OUTPUT

NEUTRAL AXIS - TRANSFORMED GROSS SECTION (in.)	LEFT	MIDSPAN	RIGHT
y_{top} =	2.00	2.00	2.00
y_{bottom} =	2.00	2.00	2.00

TRANSFORMED GROSS MOMENT OF INERTIA ($in.^4$)	LEFT	MIDSPAN	RIGHT
	64.0	64.0	64.0

NEUTRAL AXIS - TRANSFORMED CRACKED SECTION (in.)	LEFT	MIDSPAN	RIGHT
y_{top} =	1.60	1.60	1.60
y_{bottom} =	2.40	2.40	2.40

TRANSFORMED CRACKED MOMENT OF INERTIA ($in.^4$)	LEFT	MIDSPAN	RIGHT
	25.6	25.6	25.6

EFFECTIVE MOMENT OF INERTIA ($in.^4$)	LEFT	MIDSPAN	RIGHT
	64.0	64.0	64.0

AVERAGE EFFECTIVE MOMENT OF INERTIA ($in.^4$)	1	2	3	4	= support condition
	64.0	64.0	64.0	64.0	= percent Ig

average Ie = 64.0 $in.^4$

ρ' = 0.0

ξ = 2.0 (see 9.5.2.5)

λ = 2.00 (see 9.5.2.5)

DEFLECTION RESULTS

DEFLECTIONS (in.)	support condition = 1	2	3	4	4
Δ DL =	0.00	0.00	0.00	0.00	0.00
Δ DL+LL =	0.00	0.00	0.00	0.00	0.00
Δ LL =	0.00	0.00	0.00	0.00	0.00
Δ LONG TERM =	0.00	0.00	0.00	0.00	0.00
TOTAL Δ LONG TERM =	0.00	0.00	0.00	0.00	0.00
L/	793				

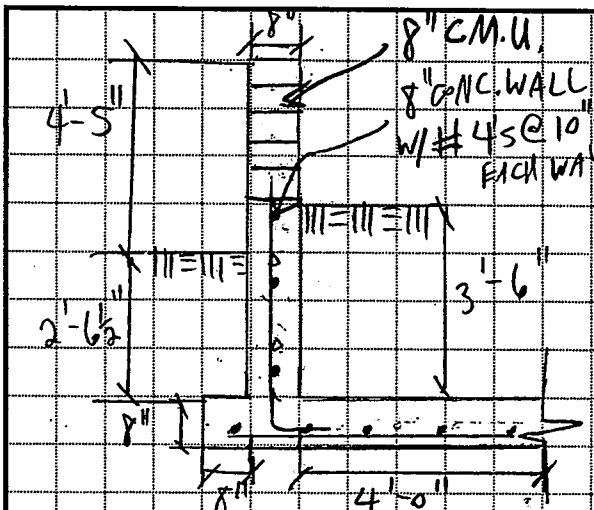
4A = cantilever deflection due to distributed line load
4B = cantilever deflection due to point load at cantilever end

ALLOWABLE DEFLECTION			ALLOW. **CANTILEVER** DEFLECTION	
L/480 =	0.25	in.	L/480 =	0.17 in.
L/360 =	0.33	in.	L/360 =	0.22 in.
L/240 =	0.50	in.	L/240 =	0.33 in.

793 > 240 ∴ O.K.

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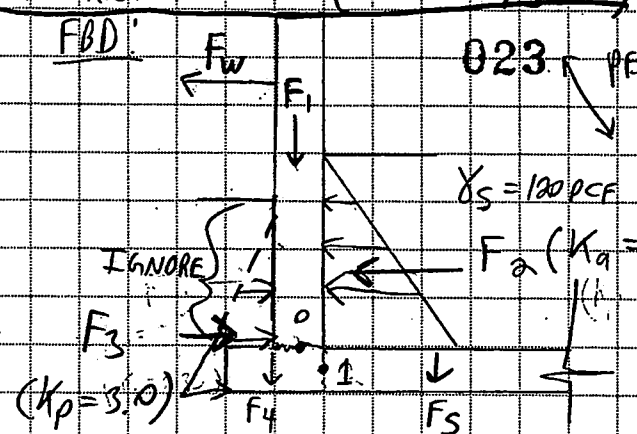
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N.T.S.

REINF. EXIST. CMU WALL (SECT. 2 / S300)

FBD:



$F_1 = 150\frac{lb}{ft^3}\left(\frac{8''}{12}\right)(6.96') = 696\ lb/ft$

$F_2 = 0.33\left(\frac{1}{2}\right)(120)(3.5)^2 = 243\ lb/ft$ (ACTIVE)

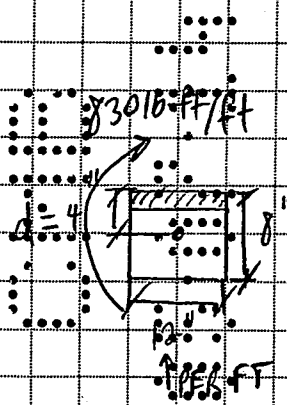
$F_3 = 3\left(\frac{1}{2}\right)(120)\left(\frac{8''}{12}\right)^2 = 80\ lb/ft$ (PASSIVE)

(ASCE 7-10: F = 37.6 PSF)

$F_w = 37.6\ (4.42') = 166\ lb/ft$

$\circlearrowleft M_{u(0)} = 1.6\times\left[-243\left(\frac{1}{3}\times 3.5\right) + 166\left(2.5+\frac{4.42}{2}\right)\right]$

$= 1716\ lb\text{-}ft/ft = 1.7\ k\text{-}ft/ft$



$\#4's\ @\ 10''\ o.c. = 0.2in^2\times\left(\frac{12}{10''}\right) = 0.24in^2/ft$

$0.24\ (40ksi) = 0.85\ (3ksi)(12'')\ a$

$a = 0.314''$

$\phi M_n = 0.9\left[0.24\times 40\left(4 - 0.314''/2\right)\right] = 33.2\ k\text{-}in/ft = 2.8\ k\text{-}ft/ft$

$= 2800\ lb\text{-}ft/ft$

$\phi M_n > M_u$ O.K.

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CHECK FOOTING

024

NO TOP BARS SHOWN IN DRAWING

∴ CHECK PLAIN CONC.

(ACI 318-CH.22) $M_n = 5\sqrt{3000} \cdot \frac{12(8)^2}{6} = 350541 \text{ lb-in/ft}$

$= 29211 \text{ lb-ft/ft}$

$M_u \approx -17161 \text{ lb-ft/ft}$)

$\phi M_n = 0.65(2921) = 1899 \text{ lb-ft/ft}$

$\phi M_n > M_u$ O.K.

Company	JOB TITLE SAN JUAN HOTEL
Address	
City, State	JOB NO. 13073 SHEET NO.
Phone	CALCULATED BY WM DATE 10.30.2013
	CHECKED BY DATE

Wind Loads - Other Structures:

Nominal Wind Pressures

Importance Factor =	0.60		
Gust Effect Factor (G) =	0.85	Wind Speed =	175 mph
Kzt =	1.00	Exposure =	C

025

A. Solid Freestanding Walls & Solid Signs (& open signs with less than 30% open)

		s/h =	1.00	Case A & B	
Dist to sign top (h)	4.0 ft	B/s =	8.50	C_f =	1.32
Height (s)	4.0 ft	Lr/s =	25.00	F = qz G Cf As =	**37.9 As**
Width (B)	34.0 ft	Kz =	0.849	As =	10.0 sf
Wall Return (Lr) =	100.0 ft	qz =	33.9 psf	F =	379 lbs
Directionality (Kd)	0.85				
Percent of open area		Open reduction		CaseC	
to gross area	0.0%	factor =	1.00	Horiz dist from windward edge	Cf / F=qzGCfAs (psf)
		Case C reduction factors		0 to s	1.73 / 49.9 **As**
		Factor if s/h>0.8 =	0.80	s to 2s	1.86 / 53.7 **As**
		Wall return factor		2s to 3s	1.38 / 39.8 **As**
		for Cf at 0 to s =	0.60	3s to 10s	0.82 / 23.7 **As**

B. Open Signs & Lattice Frameworks (openings 30% or more of gross area)

Height to centroid of Af (z)	15.0 ft			Kz =	0.849
				Base pressure (qz) =	33.9 psf
Width (zero if round)	0.0 ft				
Diameter (zero if rect)	2.0 ft	D(qz)^.5 =	11.65	$F = q_z G C_f A_f$ =	**31.7 Af**
Percent of open area		I =	0.65	Solid Area: A_f =	10.0 sf
to gross area	35.0%	C_f =	1.1	F =	317 lbs
Directionality (Kd)	0.85				

C. Chimneys, Tanks, Rooftop Equipment (h>60') & Similar Structures

Height to centroid of Af (z)	15.0 ft	Kz =	0.849
Cross-Section	Square	Base pressure (qz) =	35.9 psf
Directionality (Kd)	0.90		h/D = 15.00
Height (h)	15.0 ft		
Width (D)	1.0 ft		
Type of Surface	N/A		

Square (wind along diagonal)		Square (wind normal to face)	
Cf =	1.28	C_f =	1.67
F = qz G Cf Af =	**39.0 Af**	$F = q_z G C_f A_f$ =	**50.9 Af**
Af =	sf	A_f =	10.0 sf
F =	0 lbs	F =	509 lbs

D. Trussed Towers

Height to centroid of Af (z)	15.0 ft	Kz =	0.849
ϵ =	0.27	Base pressure (qz) =	39.9 psf
Tower Cross Section	square		
Member Shape	flat	Diagonal wind factor =	1.2
Directionality (Kd)	1.00	Round member factor =	1.000

Square (wind along tower diagonal)		Square (wind normal to face)	
Cf =	3.24	C_f =	2.70
F = qz G Cf Af =	**109.9 Af**	$F = q_z G C_f A_f$ =	**91.6 Af**
Solid Area: Af =	10.0 sf	Solid Area: A_f =	10.0 sf
F =	1099 lbs	F =	916 lbs

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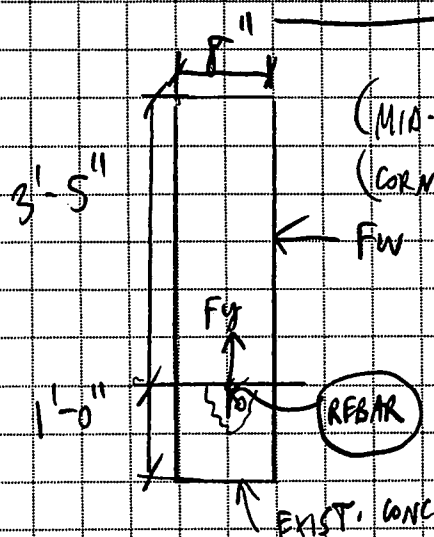
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SCALE N.T.S.

EXIST. CMU WALL (WIND FORCES)



(MID-WALL) → $F_w = 37.6\ lb/ft^2\ (3.417') = 128.5\ lb/ft$

(CORNER) → $F_w = 53.7\ lb/ft^2\ (3.417') = 183.5\ lb/ft$

$M_o = 128.5\ (3.417'/2) = 220\ lb\text{-}ft/ft$

$= 2640\ lb\text{-}in/ft$ (MID)

$= 3762\ lb\text{-}in/ft$ (CORNER)

$0.31\ (60) = 0.85 \times 12'' \times 3 \times a$

$a = 0.61''$

$1.0\ (2640) \times 4' = F_y\ (4'' - 0.61''/2)$

$F_y = 2858\ lbs$ } MID-WALL

$F_y = 4073\ lbs$ } CORNER

$F_{y\,(AVG.)} = \dfrac{2858 + 4073}{2} = 3465\ lbs$ (CORNER IS ACTUALLY BRACED, CONSERVATIVE)

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Address:		Sub-Project I Pos. No.:	
Phone I Fax:	|	Date:	11/21/2013
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Specifier's comments:

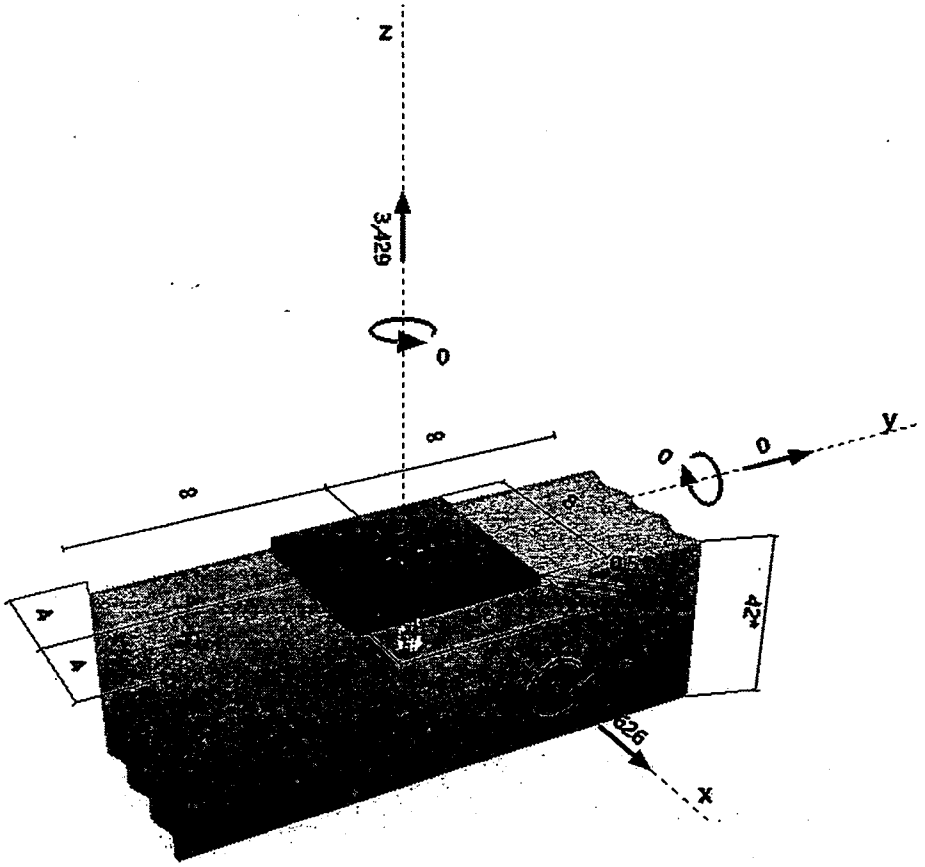
1 Input data



Anchor type and diameter:	**HIT-RE 500-SD + Rebar A 615 Gr.60 #5**
Effective embedment depth:	$h_{ef,opti}$ = 3.125 in. ($h_{ef,limit}$ = 12.500 in.)
Material:	ASTM A 615 Gr.60
Evaluation Service Report:	ESR-2322
Issued I Valid:	3/1/2013 | 4/1/2014
Proof:	design method ACI 318 / AC308
Stand-off installation:	e_b = 0.000 in. (no stand-off); t = 0.500 in.
Anchor plate:	l_x x l_y x t = 8.000 in. x 8.000 in. x 0.500 in.; (Recommended plate thickness: not calculated)
Profile:	S shape (AISC); (L x W x T x FT) = 3.000 in. x 2.330 in. x 0.170 in. x 0.260 in.
Base material:	uncracked concrete, 3000, f_c' = 3000 psi; h = 42.000 in., Temp. short/long: 32/32 °F
Installation:	diamond cored hole, installation condition: dry
Reinforcement:	tension: condition B, shear: condition B; no supplemental splitting reinforcement present edge reinforcement: none or < No. 4 bar
Seismic loads (cat. C, D, E, or F)	no

027

Geometry [in.] & Loading [lb, in.lb]

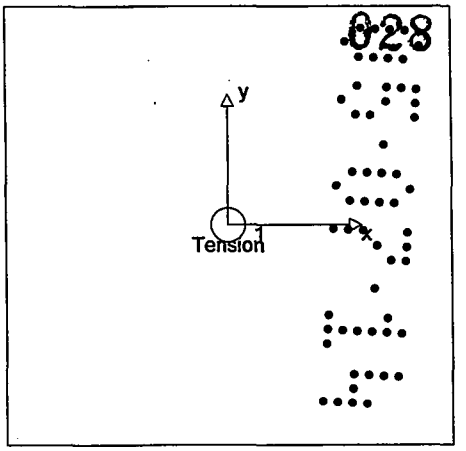


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Phone I Fax:	|	Date:	11/21/2013
E-Mail:			

2 Load case/Resulting anchor forces

Load case: Design loads



Anchor reactions [lb]

Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	3429	626	626	0

max. concrete compressive strain: - [‰]
max. concrete compressive stress: - [psi]
resulting tension force in (x/y)=(0.000/0.000): 3429 [lb]
resulting compression force in (x/y)=(0.000/0.000): 0 [lb]

3 Tension load

	Load N_{ua} [lb]	Capacity ϕN_n [lb]	Utilization $\beta_N = N_{ua}/\phi N_n$	Status
Steel Strength*	3429	18135	19	OK
Bond Strength**	3429	4550	76	OK
Concrete Breakout Strength**	3429	4093	84	OK

* anchor having the highest loading **anchor group (anchors in tension)

3.1 Steel Strength

N_{sa} = ESR value refer to ICC-ES ESR-2322
$\phi N_{steel} \geq N_{ua}$ ACI 318-08 Eq. (D-1)

Variables

n	$A_{se,N}$ [in.^{2}]	f_{uta} [psi]
1	0.31	90000

Calculations

N_{sa} [lb]
27900

Results

N_{sa} [lb]	ϕ_{steel}	ϕN_{sa} [lb]	N_{ua} [lb]
27900	0.650	18135	3429

Input data and results must be checked for agreement with the existing conditions and for plausibility!
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3.2 Bond Strength

$N_a = \left(\frac{A_{Na}}{A_{Na0}}\right) \psi_{ed,Na}\, \psi_{p,Na}\, N_{a0}$ ICC-ES AC308 Eq. (D-16a)

$\phi\, N_a \geq N_{ua}$ ACI 318-08 Eq. (D-1)

A_{Na} = see ICC-ES AC308, Part D.5.3.7

$A_{Na0} = s_{cr,Na}^2$ ICC-ES AC308 Eq. (D-16c)

$s_{cr,Na} = 20d \sqrt{\frac{\tau_{k,uncr}}{1450}} \leq 3\, h_{ef}$ ICC-ES AC308 Eq. (D-16d)

$c_{cr,Na} = \frac{s_{cr,Na}}{2}$ ICC-ES AC308 Eq. (D-16e)

$\psi_{ed,Na} = 0.7 + 0.3 \left(\frac{c_{a,min}}{c_{cr,Na}}\right) \leq 1.0$ ICC-ES AC308 Eq. (D-16m)

$\psi_{g,Na} = \psi_{g,Na0} + \left[\left(\frac{s_{avg}}{s_{cr,Na}}\right)^{0.5} \cdot (1 - \psi_{g,Na0})\right] \geq 1.0$ ICC-ES AC308 Eq. (D-16g)

$\psi_{g,Na0} = \sqrt{n} - \left[(\sqrt{n} - 1) \cdot \left(\frac{\tau_{k,c}}{\tau_{k,max,c}}\right)^{1.5}\right] \geq 1.0$ ICC-ES AC308 Eq. (D-16h)

$\tau_{k,max,c} = \frac{k_c}{\pi \cdot d} \sqrt{h_{ef} \cdot f'_c}$ ICC-ES AC308 Eq. (D-16i)

$\psi_{ec,Na} = \left(\frac{1}{1 + \frac{2e'_N}{s_{cr,Na}}}\right) \leq 1.0$ ICC-ES AC308 Eq. (D-16j)

$N_{a0} = \tau_{k,c} \cdot \kappa_{bond} \cdot \pi \cdot d \cdot h_{ef}$ ICC-ES AC308 Eq. (D-16f)

Variables

$\tau_{k,c,uncr}$ [psi]	d_{anchor} [in.]	h_{ef} [in.]	$c_{a,min}$ [in.]	s_{avg} [in.]	n	$\tau_{k,c}$ [psi]
1555	0.625	3.125	4.000	-	1	1555

k_c	f'_c [psi]	$e_{c1,N}$ [in.]	$e_{c2,N}$ [in.]	c_{ac} [in.]	κ_{bond}
24	3000	0.000	0.000	4.410	1.00

Calculations

$s_{cr,Na}$ [in.]	$c_{cr,Na}$ [in.]	A_{Na} [in.^{2}]	A_{Na0} [in.^{2}]	$\psi_{ed,Na}$	$\tau_{k,max}$ [psi]
9.375	4.688	75.00	87.89	0.956	1183

$\psi_{g,Na0}$	$\psi_{g,Na}$	$\psi_{ec1,Na}$	$\psi_{ec2,Na}$	$\psi_{p,Na}$	N_{a0} [lb]
1.000	1.000	1.000	1.000	1.063	9541

Results

N_a [lb]	ϕ_{bond}	$\phi\, N_a$ [lb]	N_{ua} [lb]
8273	0.550	4550	3429

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E-Mail:			

3.3 Concrete Breakout Strength

$$N_{cb} = \left(\frac{A_{Nc}}{A_{Nc0}}\right) \psi_{ed,N}\, \psi_{c,N}\, \psi_{cp,N}\, N_b \qquad \text{ACI 318-08 Eq. (D-4)}$$

$$\phi\, N_{cb} \geq N_{ua} \qquad \text{ACI 318-08 Eq. (D-1)}$$

A_{Nc} see ACI 318-08, Part D.5.2.1, Fig. RD.5.2.1(b)

$$A_{Nc0} = 9\, h_{ef}^2 \qquad \text{ACI 318-08 Eq. (D-6)}$$

$$\psi_{ec,N} = \left(\frac{1}{1 + \frac{2\, e'_N}{3\, h_{ef}}}\right) \leq 1.0 \qquad \text{ACI 318-08 Eq. (D-9)}$$

$$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}}\right) \leq 1.0 \qquad \text{ACI 318-08 Eq. (D-11)}$$

$$\psi_{cp,N} = \text{MAX}\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}}\right) \leq 1.0 \qquad \text{ACI 318-08 Eq. (D-13)}$$

$$N_b = k_c\, \lambda\, \sqrt{f'_c}\, h_{ef}^{1.5} \qquad \text{ACI 318-08 Eq. (D-7)}$$

Variables

h_{ef} [in.]	$e_{c1,N}$ [in.]	$e_{c2,N}$ [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$
3.125	0.000	0.000	4.000	1.000

c_{ac} [in.]	k_c	λ	f'_c [psi]
4.410	24	1	3000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ec1,N}$	$\psi_{ec2,N}$	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [lb]
75.00	87.89	1.000	1.000	0.956	1.063	7262

Results

N_{cb} [lb]	$\phi_{concrete}$	$\phi\, N_{cb}$ [lb]	N_{ua} [lb]
6297	0.650	4093	3429

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4 Shear load

	Load V_{ua} [lb]	Capacity ϕV_n [lb]	Utilization $\beta_V = V_{ua}/\phi V_n$	Status
Steel Strength*	626	10044	7	OK
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength (Concrete Breakout Strength controls)**	626	8815	8	OK
Concrete edge failure in direction x+**	626	3279	20	OK

* anchor having the highest loading **anchor group (relevant anchors)

4.1 Steel Strength

$V_{sa} = (n\ 0.6\ A_{se,V}\ f_{uta})$ refer to ICC-ES ESR-2322

$\phi\ V_{steel} \geq V_{ua}$ ACI 318-08 Eq. (D-2)

Variables

n	$A_{se,V}$ [in.^{2}]	f_{uta} [psi]	$(n\ 0.6\ A_{se,V}\ f_{uta})$ [lb]
1	0.31	90000	16740

Calculations

V_{sa} [lb]
16740

Results

V_{sa} [lb]	ϕ_{steel}	$\phi\ V_{sa}$ [lb]	V_{ua} [lb]
16740	0.600	10044	626

4.2 Pryout Strength (Concrete Breakout Strength controls)

$V_{cp} = k_{cp}\left[\left(\frac{A_{Nc}}{A_{Nc0}}\right)\psi_{ed,N}\ \psi_{c,N}\ \psi_{cp,N}\ N_b\right]$ ACI 318-08 Eq. (D-30)

$\phi\ V_{cp} \geq V_{ua}$ ACI 318-08 Eq. (D-2)

A_{Nc} see ACI 318-08, Part D.5.2.1, Fig. RD.5.2.1(b)

$A_{Nc0} = 9\ h_{ef}^2$ ACI 318-08 Eq. (D-6)

$\psi_{ec,N} = \left(\frac{1}{1 + \frac{2\ e'_N}{3\ h_{ef}}}\right) \leq 1.0$ ACI 318-08 Eq. (D-9)

$\psi_{ed,N} = 0.7 + 0.3\left(\frac{c_{a,min}}{1.5 h_{ef}}\right) \leq 1.0$ ACI 318-08 Eq. (D-11)

$\psi_{cp,N} = MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}}\right) \leq 1.0$ ACI 318-08 Eq. (D-13)

$N_b = k_c\ \lambda\ \sqrt{f'_c}\ h_{ef}^{1.5}$ ACI 318-08 Eq. (D-7)

Variables

k_{cp}	h_{ef} [in.]	$e_{c1,N}$ [in.]	$e_{c2,N}$ [in.]	$c_{a,min}$ [in.]
2	3.125	0.000	0.000	4.000

$\psi_{c,N}$	c_{ac} [in.]	k_c	λ	f'_c [psi]
1.000	4.410	24	1	3000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ec1,N}$	$\psi_{ec2,N}$	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [lb]
75.00	87.89	1.000	1.000	0.956	1.063	7262

Results

V_{cp} [lb]	$\phi_{concrete}$	$\phi\ V_{cp}$ [lb]	V_{ua} [lb]
12593	0.700	8815	626

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4.3 Concrete edge failure in direction x+

$$V_{cb} = \left(\frac{A_{Vc}}{A_{Vc0}}\right) \psi_{ed,V}\, \psi_{c,V}\, \psi_{h,V}\, \psi_{parallel,V}\, V_b \qquad \text{ACI 318-08 Eq. (D-21)}$$

$$\phi V_{cb} \geq V_{ua} \qquad \text{ACI 318-08 Eq. (D-2)}$$

A_{Vc} see ACI 318-08, Part D.6.2.1, Fig. RD.6.2.1(b)

$$A_{Vc0} = 4.5\, c_{a1}^2 \qquad \text{ACI 318-08 Eq. (D-23)}$$

$$\psi_{ec,V} = \left(\frac{1}{1 + \frac{2e_v}{3c_{a1}}}\right) \leq 1.0 \qquad \text{ACI 318-08 Eq. (D-26)}$$

$$\psi_{ed,V} = 0.7 + 0.3\left(\frac{c_{a2}}{1.5c_{a1}}\right) \leq 1.0 \qquad \text{ACI 318-08 Eq. (D-28)}$$

$$\psi_{h,V} = \sqrt{\frac{1.5c_{a1}}{h_a}} \geq 1.0 \qquad \text{ACI 318-08 Eq. (D-29)}$$

$$V_b = \left(7\left(\frac{l_e}{d_a}\right)^{0.2} \sqrt{d_a}\right) \lambda \sqrt{f'_c}\, c_{a1}^{1.5} \qquad \text{ACI 318-08 Eq. (D-24)}$$

Variables

c_{a1} [in.]	c_{a2} [in.]	e_{cV} [in.]	$\psi_{c,V}$	h_a [in.]
4.000	-	0.000	1.400	42.000

l_e [in.]	λ	d_a [in.]	f'_c [psi]	$\psi_{parallel,V}$
3.125	1.000	0.625	3000	1.000

Calculations

A_{Vc} [in.^{2}]	A_{Vc0} [in.^{2}]	$\psi_{ec,V}$	$\psi_{ed,V}$	$\psi_{h,V}$	V_b [lb]
72.00	72.00	1.000	1.000	1.000	3346

Results

V_{cb} [lb]	$\phi_{concrete}$	ϕV_{cb} [lb]	V_{ua} [lb]
4684	0.700	3279	626

5 Combined tension and shear loads

β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status
0.838	0.191	5/3	81	OK

$\beta_{NV} = \beta_N^{\zeta} + \beta_V^{\zeta} <= 1$

6 Warnings

- To avoid failure of the anchor plate the required thickness can be calculated in PROFIS Anchor. Load re-distributions on the anchors due to elastic deformations of the anchor plate are not considered. The anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the loading!
- Condition A applies when supplementary reinforcement is used. The Φ factor is increased for non-steel Design Strengths except Pullout Strength and Pryout strength. Condition B applies when supplementary reinforcement is not used and for Pullout Strength and Pryout Strength. Refer to your local standard.
- Design Strengths of adhesive anchor systems are influenced by the cleaning method. Refer to the INSTRUCTIONS FOR USE given in the Evaluation Service Report for cleaning and installation instructions
- The present version of the software does not account for adhesive anchor special design provisions corresponding to overhead applications. Refer to the ICC-ES Evaluation Service Report (e.g. section 4.1.1 of the ICC-ESR 2322) for details.
- Checking the transfer of loads into the base material and the shear resistance are required in accordance with ACI 318 or the relevant standard!

Fastening meets the design criteria!

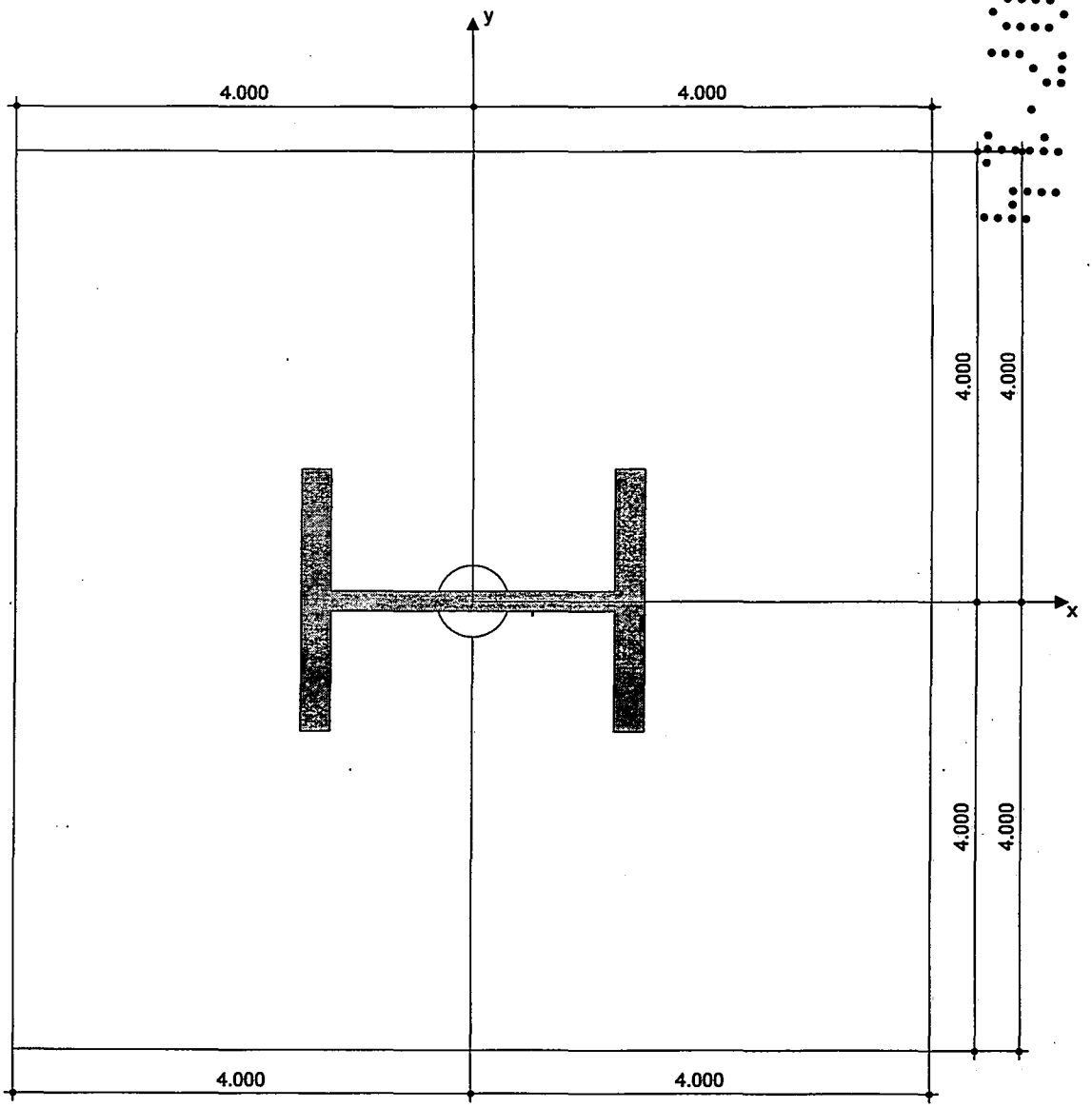
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7 Installation data

Anchor plate, steel: -
Profile: S shape (AISC); 3.000 x 2.330 x 0.170 x 0.260 in.
Hole diameter in the fixture: d_f = 0.625 in.
Plate thickness (input): 0.500 in.
Recommended plate thickness: not calculated
Cleaning: Premium cleaning of the drilled hole is required

Anchor type and diameter: HIT-RE 500-SD + Rebar A 615 Gr.60, #5
Installation torque: -0.009 in.lb
Hole diameter in the base material: 0.750 in.
Hole depth in the base material: 3.125 in.
Minimum thickness of the base material: 4.625 in.



Coordinates Anchor in.

Anchor	x	y	c_{-x}	c_{+x}	c_{-y}	c_{+y}
1	0.000	0.000	4.000	4.000	-	-

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8 Remarks; Your Cooperation Duties

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- You must take all necessary and reasonable steps to prevent or limit damage caused by the Software. In particular, you must arrange for the regular backup of programs and data and, if applicable, carry out the updates of the Software offered by Hilti on a regular basis. If you do not use the AutoUpdate function of the Software, you must ensure that you are using the current and thus up-to-date version of the Software in each case by carrying out manual updates via the Hilti Website. Hilti will not be liable for consequences, such as the recovery of lost or damaged data or programs, arising from a culpable breach of duty by you.

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MASONRY

DESIGN SYSTEM FOR CONCRETE AND CLAY MASONRY

The National Concrete Masonry Association | Brick Industry Association | Version 4.1 (Release 4.1.2)
Western States Clay Product Association | International Code Council

Prjct:	Name: 13073 San Juan Hotel
Topic: Existing CMU to be Reinforced	Date: 11/21/13
Page:	Chkd:

Design of a Reinforced Masonry Wall with Out-of-Plane Loads
Using the 2005 MSJC ASD Code

REINF. EXIST CMU WALL (SECT. 2/S300)
(FOR WIND)

Material and Construction Data
- 8 in. CMU, Partial grout, running bond
- Wall Weight = 41.03 psf
- Type S Masonry cement / Air-entrained PCL Mortar, Coarse Grout
- CMU Density = 115 pcf
- f'_m = 1340 psi (Specified)
- $E_m = 900f'_m$ = 1206000 psi

Wall Design Details
- Thickness = 7.625 in.
- Height = 49 in. (Cantilevered Wall, Effective height = 2H)
- x = 3.813 in.
- #5 Bars, Fy = 60000.0
- Reinforcement Spacing = 48 in. On-Center

Wall Design Section Properties
- A_o = 162.6 in^2
- I_o = 1328 in^4
- S_o = 348.4 in^3
- R_o = 2.858 in

The following design calculations are for the specified section forces

Section Design Forces Used
- V = 128.5 lb/ft (Specified)
- M_L = 2640 lb-in./ft (Specified)
- P = 0 lb/ft at e = 0 in (Specified)

Computed Design Values
- Note: 1/3 stress increase was not used
- Effective Width = 48 in.
- Web Width = 8.313 in. on effective width

- Allowable Shearing Force = 744 lb/ft
- The wall is adequate in shear

- Required A_s = 0.1221 in^2 each reinforced cell (0.03052 in^2/ft) OK
- d = 3.813 in.
- n = 24.05
- $k_{balanced}$ = 0.3092

Prjct:	Name: 13073 San Juan Hotel
Topic: Existing CMU to be Reinforced	Date: 11/21/13
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$j_{balanced}$ = 0.8969
k = 0.1638
j = 0.9454
P_{max} (Compression) = 5.12e+004 lbs (1.28e+004 lbs/ft) OK
P_{max} (Tension) = 7440 lbs (1860 lbs/ft) OK

036

The wall has adequate capacity.

Development and Splice Lengths for Longitudinal Reinforcement
K = 3.1250 in.
Required Development Length: l_d = 26.63 in.
Required Lap Splice Length: = 26.63 in.
Some codes may require epoxy-coated reinforcement to have longer development and splice lengths.

MASONRY

DESIGN SYSTEM FOR CONCRETE AND CLAY MASONRY

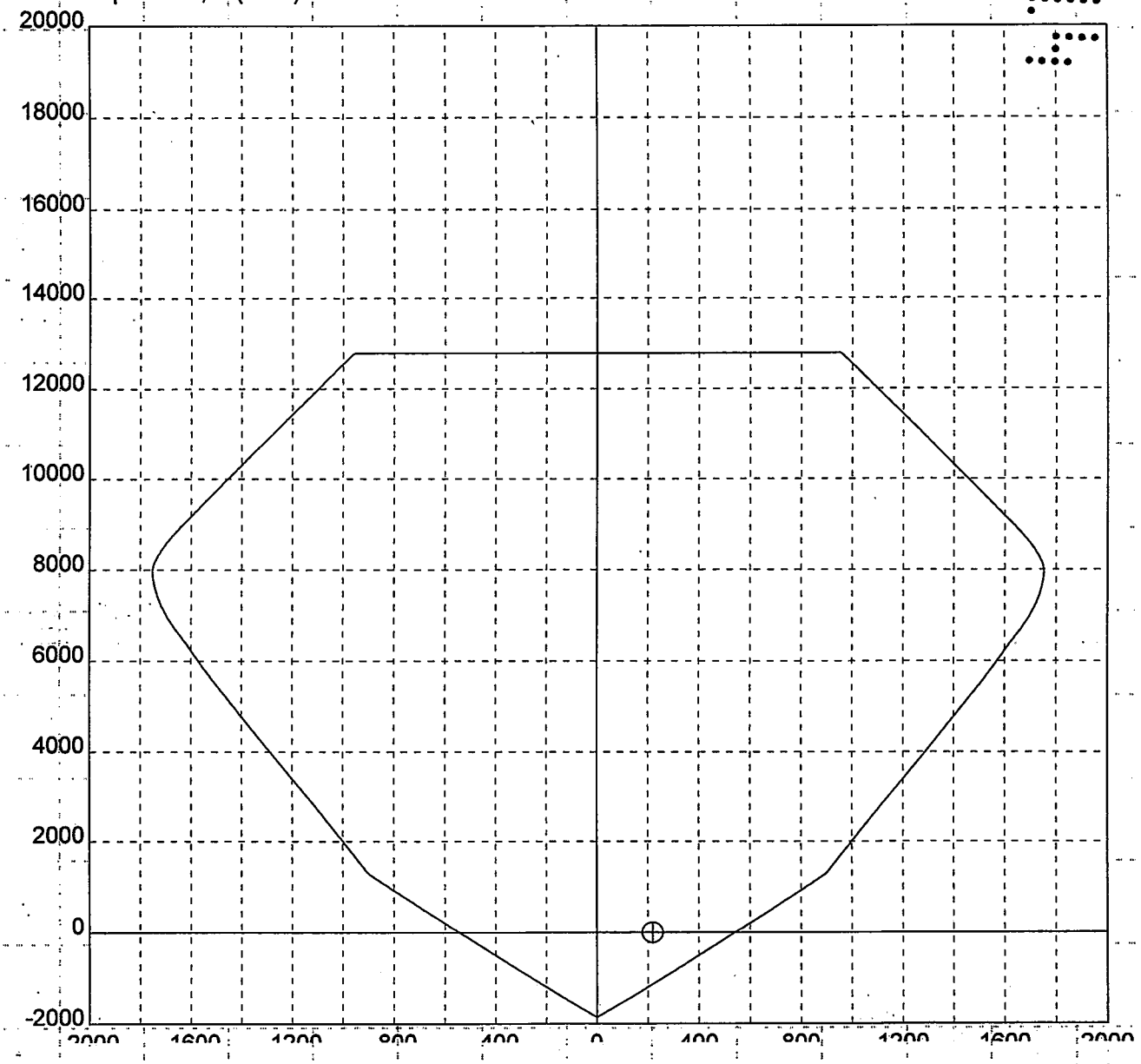
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Prjct:	Name: 13073 San Juan Hotel
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Reinforced Wall Interaction Diagram
Using the 2005 MSJC ASD Code

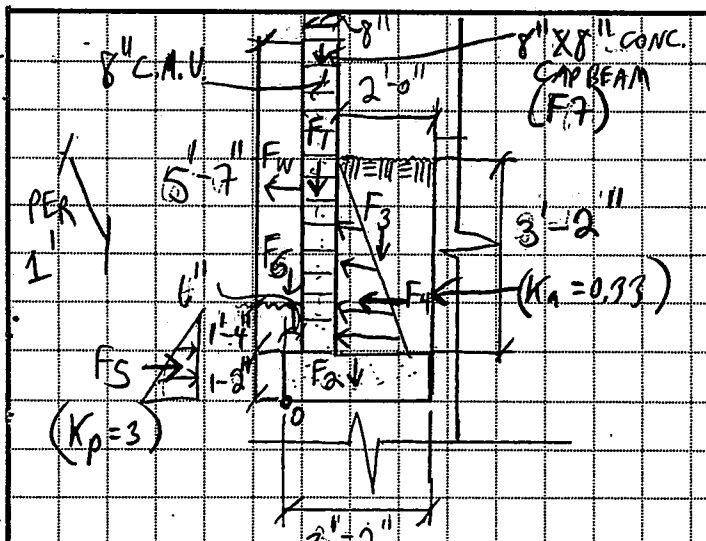
Masonry Unit Size = 8 in. (Partially grouted)
Reinforcement Spacing = 48 in.
Fy = 60 ksi fm' = 1340 psi
As = 0.31 sq.in. x = 3.813 in. H = 49 in. (4.084 ft)

037



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(305) 461-3450 ■ FAX (305) 461-3650
DESIGN CALCULATIONS

JOB SAN JUAN HOTEL
SHEET NO. 1 OF
CALCULATED BY DATE
CHECKED BY DATE
SCALE



DESIGN OF NEW CMU (SECT. 1/S300)

DEAD ONLY:

0.38

$F_1 = 75\ lb/ft^2 (6.25') = 469\ lb/ft$

$F_7 = 150 (8"/12)(8"/12) = 66.7\ lb/ft$

$F_a = 150 (1.17')(38"/12) = 556\ lb/ft$

$F_3 = 120 (2')(3.17') = 761\ lb/ft$

$F_6 = 120 (6"/12)(1.33') = 80\ lb/ft$

$P_{4(SOIL)} = K_a \cdot \gamma \cdot h = 0.33 (120)(3.17') = 126\ lb/ft^2$

(ACTIVE) $F_4 = 1/2 (3.17)(126) = 200\ lb/ft$

(PASSIVE) $F_S = 3 (1/2)(120)(2.5)^2 = 1130\ lb/ft$

$+\circlearrowleft M_{RES.(a)} = +469 (10"/12) + 66.7 (10"/12) + 555 (3.167'/2) + 761 (2.6"/12) + 80 (3"/12) + 1130 (1/3 \times 2.5')$

$= 3931\ lb\text{-}ft/ft$

$+\circlearrowleft M_{O.T.(a)} = 200 (1.167' + 1/3 \times 3.167') = 445\ lb\text{-}ft/ft$

$\frac{M_{RES} \times 0.6}{M_{O.T.}} = \frac{3931 (0.6)}{445} = 5.3 \geq 1.0$

O.K. FOR DEAD LOAD + SOIL

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DESIGN CALCULATIONS

JOB SAN JUAN HOTEL
SHEET NO. 2 OF
CALCULATED BY DATE
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SCALE

WIND:

$q_z = 0.00256(0.85)(1.0)(0.85)(175)^2$

$= 56.6 \times 0.6 = 34 PSF$ (ASD)

$F_W = 34(0.85)(1.0)(5.58') = 291\#/ft$

7.) $0.6D + 0.6W - 1.0H$:

$+(M_{RES(D)} = 3931$ lb-ft/ft

$+(M_{O.T.(D)} = 445$ lb-ft/ft (H) =

$+(M_{O.T.(D)} = 291\left(1.167' + 1.33' + \frac{5.583'}{2}\right) = 1540$ lb-ft/ft (W)

$$F.S. = \frac{0.6 M_{RES}}{0.6 M_{O.T.(W)} + 1.0 M_{O.T.(H)}} = \frac{0.6(3931)}{0.6(1540) + 1.0(445)} = 1.72 \geq 1.0$$

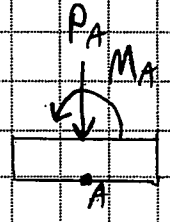
O.K. FOR DEAD + WIND + SOIL

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DESIGN CALCULATIONS

JOB SAN JUAN HOTEL
SHEET NO. 3 OF
CALCULATED BY DATE
CHECKED BY DATE
SCALE

CHECK BEARING PRESSURE:

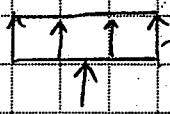
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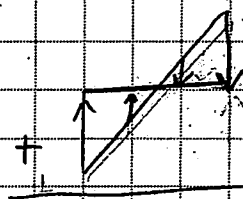
$\Sigma F_y: -F_1 - F_3 - F_2 = F_6 = F_7 = P$

$P_A = -469 - 761 - 556 - 80 = 1953$ lb/ft
$-66.7 +$

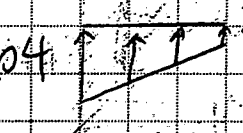
$+\circlearrowleft \Sigma M_A: -469\left(\frac{9''}{12}\right) + 761\left(\frac{7''}{12}\right) - 200(1.167' + 3.167')$
$+ 1130(2.5'/3) - 80\left(\frac{16''}{12}\right) - 66.7\left(\frac{9''}{12}\right)$
$+ 0.6\left[-291\left(1.167' + 1.33' + \frac{5.5'}{3}\right)\right] = +491.16$ ft-lb/ft

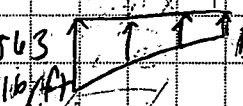


$P/L = 1953/(38''/12) = 610$ lb/ft/ft



$\frac{M(6)}{L^2} = \frac{-1491(6)}{(38''/12)^2} = -294$ lb/ft/ft





$f_{BR} = \frac{1000}{(38''/12)} + \frac{(2863 - 1000)}{\left(\frac{38}{12}\right) \cdot \frac{1}{2}} = 1493$ PSF

$f_{BR} = 1493$ PSF $<$ $f_{BR(ALL)} = 2000$ PSF

O.K.

MASONRY

DESIGN SYSTEM FOR CONCRETE AND CLAY MASONRY

The National Concrete Masonry Association | Brick Industry Association | Version 4.1 (Release 4.1.2)
Western States Clay Product Association | International Code Council

Prjct:	Name: 13073 San Juan Hotel
Topic: NEW POOL RETAINING WALL	Date: 11/21/13
Page:	Chkd:

Design of a Reinforced Masonry Wall with Out-of-Plane Loads
Using the 2005 MSJC ASD Code

041

Material and Construction Data
- 8 in. CMU, Partial grout, running bond
- Wall Weight = 48.89 psf
- Type S Masonry cement / Air-entrained PCL Mortar, Course Grout
- CMU Density = 115 pcf
- f'_m = 1500 psi (Specified)
- $E_m = 900f'_m$ = 1350000 psi

Wall Design Details
- Thickness = 7.625 in.
- Height = 86 in. (Cantilevered Wall, Effective height = 2H)
- x = 3.813 in.
- #8 Bars, Fy = 60000.0
- Reinforcement Spacing = 24 in. On-Center

Wall Design Section Properties
- A_O = 102.6 in^2
- I_O = 710.7 in^4
- S_O = 186.4 in^3
- R_O = 2.632 in

The following design calculations are for the specified section forces

Section Design Forces Used
- V = 171 lb/ft (Specified)
- M_L = 15228 lb-in./ft (Specified)
- P = 0 lb/ft at e = 0 in (Specified)

Computed Design Values
- Note: 1/3 stress increase was not used
- Effective Width = 24 in.
- Web Width = 8.313 in. on effective width

- Allowable Shearing Force = 993.4 lb/ft
- The wall is adequate in shear

- Required A_S = 0.6046 in^2 each reinforced cell (0.3023 in^2/ft) OK
- d = 3.813 in.
- n = 21.48
- $k_{balanced}$ = 0.3092

Prjct:
Topic: NEW POOL RETAINING WALL
Page:

Name: 13073 San Juan Hotel
Date: 11/21/13
Chkd:

$j_{balanced}$ = 0.8969
k = 0.4138
j = 0.8684
P_{max} (Compression) = 3.009e+004 lbs (1.505e+004 lbs/ft) OK
P_{max} (Tension) = 1.896e+004 lbs (9480 lbs/ft) OK

The wall has adequate capacity.

Development and Splice Lengths for Longitudinal Reinforcement
K = 3.3125 in.
Required Development Length: l_d = 91.20 in.
Required Lap Splice Length: = 91.20 in.
Some codes may require epoxy-coated reinforcement to have longer development and splice lengths.

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DESIGN SYSTEM FOR CONCRETE AND CLAY MASONRY

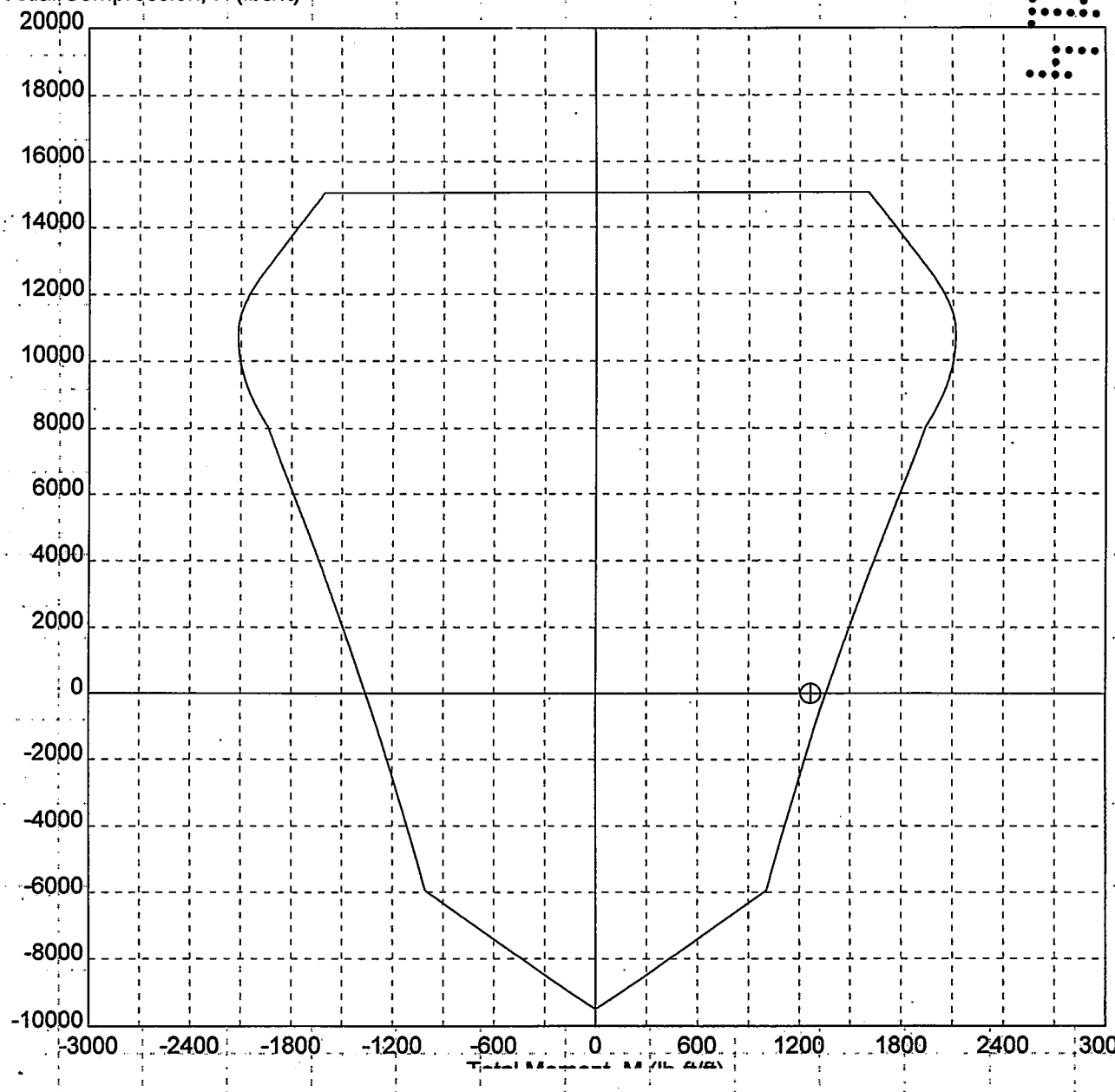
The National Concrete Masonry Association Brick Industry Association Version 4.1 (Release 4.1.2)
Western States Clay Product Association International Code Council

Prjct:	Name: 13073 San Juan Hotel
Topic: NEW POOL RETAINING WALL	Date: 11/21/13
Page:	Chkd:

Reinforced Wall Interaction Diagram
Using the 2005 MSJC ASD Code

043

Masonry Unit Size = 8 in. (Partially grouted)
Reinforcement Spacing = 24 in.
Fy = 60 ksi fm' = 1500 psi
As = 0.79 sq.in. x = 3.813 in. H = 86 in. (7.167 ft)



Company
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City, State
Phone

JOB TITLE SAN JUAN HOTEL

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044

STRUCTURAL CALCULATIONS

FOR

SAN JUAN HOTEL

1680 COLLINS AVE, MIAM BEACH, FL

Company
Address
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Phone

JOB TITLE SAN JUAN HOTEL

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www.struware.com

Code Search

Code: Florida Building Code 2010 - High Velocity Zone

045

Occupancy:

Occupancy Group = B Business

Risk Category & Importance Factors:

Risk Category =	II	
Wind factor =	1.00	use 0.60 NOTE: Output will be nominal wind pressures
Snow factor =	1.00	
Seismic factor =	1.00	

Type of Construction:

Fire Rating:

Roof =	0.0 hr
Floor =	0.0 hr

Building Geometry:

Roof angle (θ)	0.00 / 12	0.0 deg
Building length (L)	203.0 ft	
Least width (B)	50.0 ft	
Mean Roof Ht (h)	36.0 ft	
Parapet ht above grd	38.0 ft	
Minimum parapet ht	2.0 ft	

Live Loads:

Roof

0 to 200 sf:	30 psf
200 to 600 sf:	30 psf
over 600 sf:	30 psf

Floor:

Typical Floor	50 psf
Partitions	15 psf
Corridors above first floor	80 psf
Lobbies & first floor corridors	100 psf
Balconies (exterior)	100 psf

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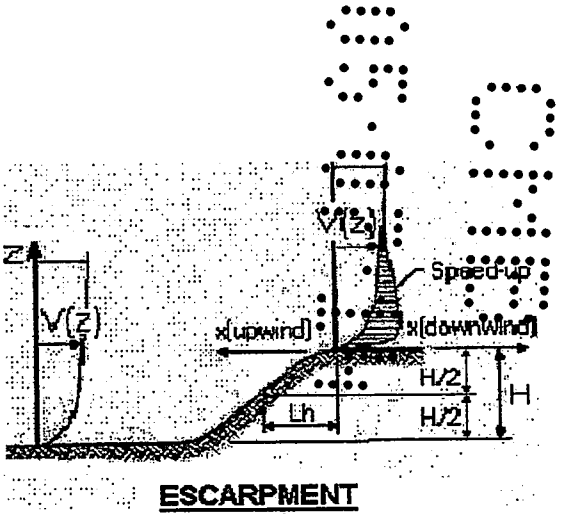
Wind Loads :

Ultimate Wind Speed	175 mph
Directionality (Kd)	0.85
Exposure Category	C
Enclosure Classif.	Enclosed Building
Internal pressure	+/-0.18
Kh case 1	1.021
Kh case 2	1.021
Type of roof	Monoslope

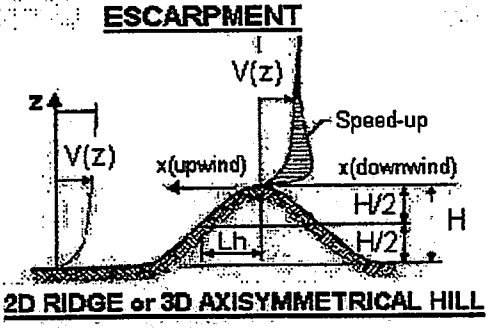
Topographic Factor (Kzt)

Topography		Flat
Hill Height	(H)	0.0 ft
Half Hill Length (Lh)		0.0 ft
Actual H/Lh	=	0.00
Use H/Lh	=	0.00
Modified Lh	=	0.0 ft
From top of crest: x =		0.0 ft
Bldg up/down wind?		upwind

H< 15ft;exp C
\ Kzt=1.0



ESCARPMENT



2D RIDGE or 3D AXISYMMETRICAL HILL

H/Lh= 0.00	K_1 =	0.000
x/Lh = 0.00	K_2 =	0.000
z/Lh = 0.00	K_3 =	1.000
At Mean Roof Ht:		
Kzt = $(1+K_1K_2K_3)^2$ =		1.00

Gust Effect Factor

h =	36.0 ft
B =	50.0 ft
/z (0.6h) =	21.6 ft

Flexible structure if natural frequency < 1 Hz (T > 1 second).
However, if building h/B < 4 then probably rigid structure (rule of thumb).
h/B = 0.72 Rigid structure

G = 0.85 Using rigid structure default

Rigid Structure

ē =	0.20
ℓ =	500 ft
z_{min} =	15 ft
c =	0.20
g_Q, g_v =	3.4
L_z =	459.4 ft
Q =	0.91
I_z =	0.21
G =	0.88 use G = 0.85

Flexible or Dynamically Sensitive Structure

Natural Frequency (η_1) =	0.0 Hz				
Damping ratio (β) =	0				
/b =	0.65				
/α =	0.15				
Vz =	156.3				
N_1 =	0.00				
R_n =	0.000				
R_h =	28.282	η =	0.000	h =	36.0 ft
R_B =	28.282	η =	0.000		
R_L =	28.282	η =	0.000		
g_R =	0.000				
R =	0.000				
G =	0.000				

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Enclosure Classification

Test for Enclosed Building: A building that does not qualify as open or partially enclosed.

Test for Open Building: All walls are at least 80% open.
Ao ≥ 0.8Ag

Test for Partially Enclosed Building:

	Input			Test	
Ao	0.0	sf	Ao ≥ 1.1Aoi	YES	
Ag	0.0	sf	Ao > 4' or 0.01Ag	NO	
Aoi	0.0	sf	Aoi / Agi ≤ 0.20	NO	Building is NOT Partially Enclosed
Agi	0.0	sf			

Conditions to qualify as Partially Enclosed Building. Must satisfy all of the following:
Ao ≥ 1.1Aoi
Ao > smaller of 4' or 0.01 Ag
Aoi / Agi ≤ 0.20
Where:
Ao = the total area of openings in a wall that receives positive external pressure.
Ag = the gross area of that wall in which Ao is identified.
Aoi = the sum of the areas of openings in the building envelope (walls and roof) not including Ao.
Agi = the sum of the gross surface areas of the building envelope (walls and roof) not including Ag.

Reduction Factor for large volume partially enclosed buildings (Ri) :

If the partially enclosed building contains a single room that is unpartitioned , the internal pressure coefficient may be multiplied by the reduction factor Ri.

Total area of all wall & roof openings (Aog): 0 sf
Unpartitioned internal volume (Vi) : 0 cf
Ri = 1.00

Altitude adjustment to constant 0.00256 (caution - see code) :

Altitude = 0 feet
Constant = 0.00256
Average Air Density = 0.0765 lbm/ft^3

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Wind Loads - MWFRS all h (Enclosed/partially enclosed only)

Kh (case 2) =	1.02	h =	36.0 ft	GCpi =	+/-0.18
Base pressure (q_h) =	40.8 psf	ridge ht =	36.0 ft	G =	0.85
Roof Angle (θ) =	0.0 deg	L =	203.0 ft	qi = qh	
Roof tributary area - (h/2)*L:	3654 sf	B =	50.0 ft		
(h/2)*B:	900 sf				

Nominal Wind Surface Pressures (psf)

Surface	Wind Normal to Ridge B/L = 0.25 Cp	q_hGC_p	h/L = 0.72 w/+q_iGC_{pi}	w/-q_hGC_{pi}	Wind Parallel to Ridge L/B = 4.06 Dist.*	Cp	q_hGC_p	h/L = 0.18 w/+q_iGC_{pi}	w/ -q_hGC_{pi}
Windward Wall (WW)	0.80	27.8	see table below			0.80	27.8	see table below	
Leeward Wall (LW)	-0.50	-17.3	-24.7	-10.0		-0.20	-6.9	-18.3	0.4
Side Wall (SW)	-0.70	-24.3	-31.6	-16.9		-0.70	-24.3	-34.6	-16.9
Leeward Roof (LR)		**				Included in windward roof			
Windward Roof: 0 to h/2*	-0.96	-33.4	-40.7	-26.0	0 to h/2*	-0.90	-31.2	-38.6	-23.9
h/2 to h*	-0.81	-28.2	-35.5	-20.8	h/2 to h*	-0.90	-31.2	-38.6	-23.9
h to 2h*	-0.59	-20.40	-27.74	-13.05	h to 2h*	-0.50	-17.3	-24.7	-10.0
					> 2h*	-0.30	-10.4	-17.8	-3.1

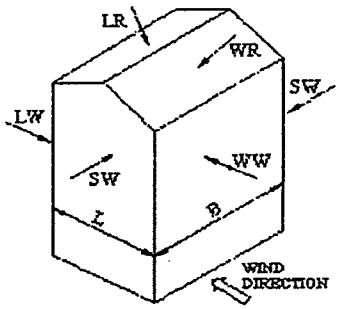
**Roof angle < 10 degrees. Therefore, leeward roof is included in windward roof pressure zones.

*Horizontal distance from windward edge

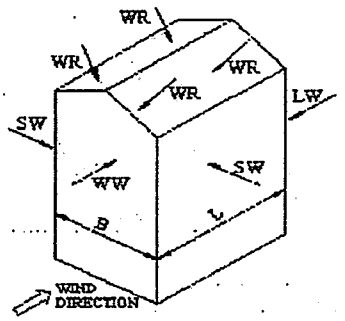
For monoslope roofs, entire roof surface is either windward or leeward surface.

Windward Wall Pressures at "z" (psf)

	z	Kz	Kzt	Windward Wall q_zGC_p	w/+q_iGC_{pi}	w/-q_hGC_{pi}	Combined WW + LW Normal to Ridge	Parallel to Ridge
	0 to 15'	0.85	1.00	23.1	15.7	30.4	40.4	30.0
	20.0 ft	0.90	1.00	24.5	17.2	31.9	41.9	31.5
	25.0 ft	0.95	1.00	25.7	18.4	33.0	43.0	32.6
	30.0 ft	0.98	1.00	26.7	19.4	34.1	44.1	33.6
h=	36.0 ft	1.02	1.00	27.8	20.4	35.1	45.1	34.7



WIND NORMAL TO RIDGE



WIND PARALLEL TO RIDGE

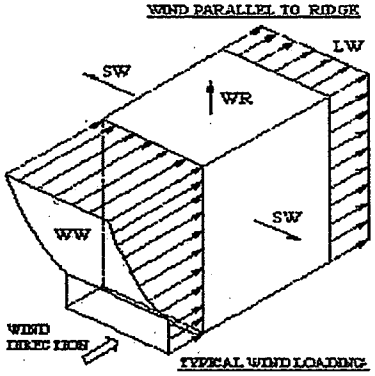
NOTE:
See figure in ASCE7 for the application of full and partial loading of the above wind pressures. There are 4 different loading cases.

Parapet

z	Kz	Kzt	qp (psf)
38.0 ft	1.03	1.00	41.3

Windward parapet: 61.9 psf (GCpn = +1.5)
Leeward parapet: -41.3 psf (GCpn = -1.0)

Windward roof overhangs (add to windward roof pressure) : 27.8 psf (upward)



TYPICAL WIND LOADING

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Wind Loads - Components & Cladding : h <= 60'

Nominal Wind Pressures

049

Kh (case 1) =	1.02	h =	36.0 ft
Base pressure (qh) =	**40.8 psf**	a =	5.0 ft
Minimum parapet ht =	2.0 ft	GCpi =	+/-0.18
Roof Angle (θ) =	0.0 deg		
Type of roof =	Monoslope		

Roof

	GCp +/- GCpi			Surface Pressure (psf)			User input	
Area	10 sf	50 sf	100 sf	10 sf	50 sf	100 sf	10 sf	48 sf
Negative Zone 1	-1.18	-1.11	-1.08	-48.2	-45.3	-44.1	-48.2	-45.4
Negative Zone 2	-1.98	-1.49	-1.28	-80.8	-60.8	-52.2	-80.8	-61.3
Negative Zone 3	-2.98	-1.79	-1.28	-121.6	-73.1	-52.2	-121.6	-74.4
Positive All Zones	0.48	0.41	0.38	19.6	16.7	15.5	19.6	16.8
Overhang Zone 1&2	-1.70	-1.63	-1.60	-69.4	-66.5	-65.3	-69.4	-69.6
Overhang Zone 3	-2.80	-1.40	-0.80	-114.3	-57.2	-32.6	-114.3	-58.7

Overhang pressures in the table above assume an internal pressure coefficient (Gcpi) of 0.0
Overhang soffit pressure equals adjacent wall pressure minus internal pressure of -7.3 / 7.3 psf

Parapet

qp = 41.3 psf

CASE A = pressure towards building (pos)
CASE B = pressure away from bldg (neg)

	Surface Pressure (psf)			User input
Solid Parapet Pressure	10 sf	100 sf	500 sf	40 sf
CASE A : Interior zone:	111.5	76.0	71.4	90.1
Corner zone:	152.7	76.0	71.4	106.5
CASE B : Interior zone:	-78.0	-64.9	-55.7	-70.1
Corner zone:	-89.2	-69.5	-55.7	-77.3

Walls

	GCp +/- GCpi			Surface Pressure (psf)			User input	
Area	10 sf	100 sf	500 sf	10 sf	100 sf	500 sf	26 sf	28 sf
Negative Zone 4	-1.17	-1.01	-0.90	-47.7	-41.3	-36.7	-45.1	-44.9
Negative Zone 5	-1.44	-1.12	-0.90	-58.8	-45.8	-36.7	-53.4	-53.0
Positive Zone 4 & 5	1.08	0.92	0.81	44.1	37.6	33.1	41.4	41.2

Note: GCp reduced by 10% due to roof angle <= 10 deg.

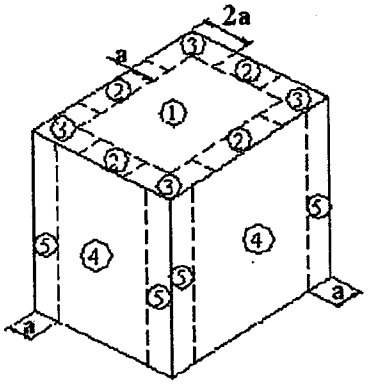
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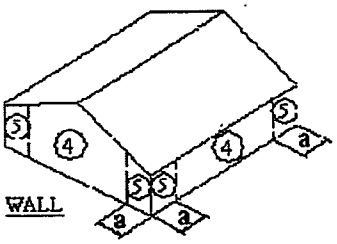
JOB NO. 13073 SHEET NO.
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Location of C&C Wind Pressure Zones

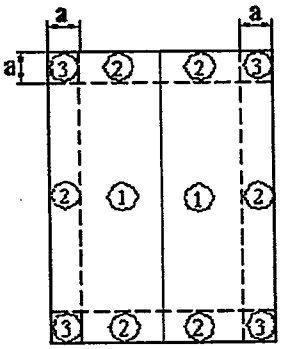
050



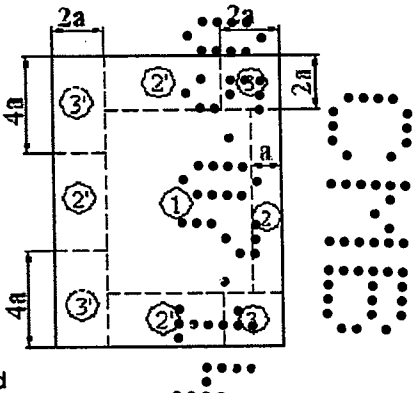
Roofs w/ $\theta \le 10°$
and all walls
h > 60'



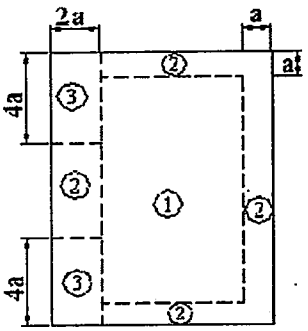
Walls h ≤ 60'
& alt design h<90'



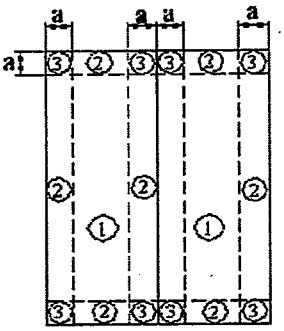
Gable, Sawtooth and
Multispan Gable $\theta \le 7$ degrees &
Monoslope ≤ 3 degrees
h ≤ 60' & alt design h<90'



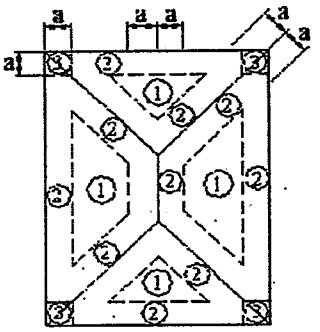
Monoslope roofs
$3° < \theta \le 10°$
h ≤ 60' & alt design h<90'



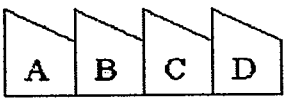
Monoslope roofs
$10° < \theta \le 30°$
h ≤ 60' & alt design h<90'

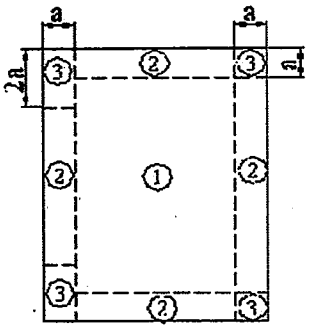


Multispan Gable &
#REF! $< \theta \le 45°$

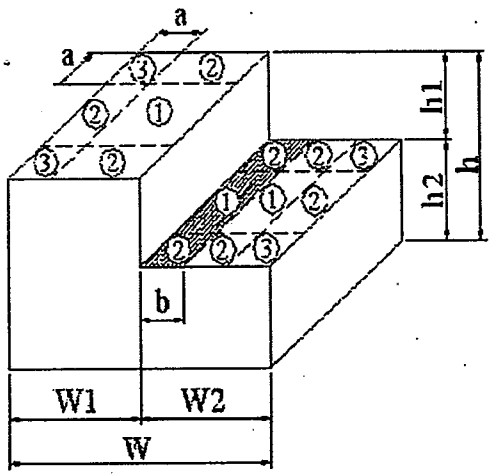


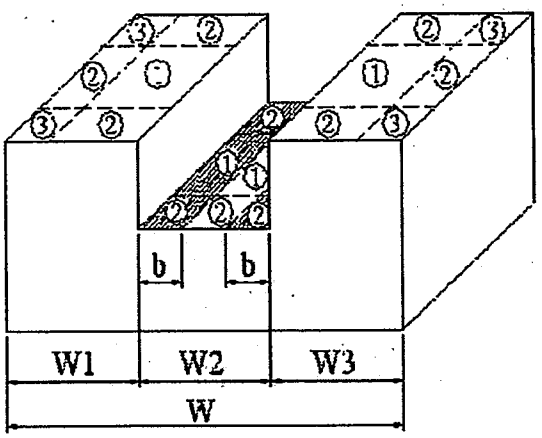
Hip $7° < \theta \le 27°$





Sawtooth $10° < \theta \le 45°$
h ≤ 60' & alt design h<90'





Stepped roofs $\theta \le 3°$
h ≤ 60' & alt design h<90'

B1403807

Mircom

INTELLIGENT FIRE ALARM CONTROL PANEL FX-2000 SERIES



Description

Mircom's FX-2000 Series Microprocessor Based Intelligent Fire Alarm Control Panel is designed to provide maximum flexibility of analog system requirements while also providing easy installation and operation at a cost-effective price.

The FX-2000 base panel consists of one intelligent analog loop controller capable of supporting 99 Analog Sensors and 99 Addressable Modules which can be wired in Class A (Style 6 or 7) or Class B (Style 4). The system can be expanded by adding additional Analog Loop Controller Modules. In addition the base panel supports 16 conventional hardwire adder modules such as the DM-1008A Initiating Circuit Module, SGM-1004A Indicating Circuit Module and the RM-1008A Relay Circuit Module. Additional conventional hardwire adder modules can be added with the ALC-H16 Adder Hardwire Loop Controller Module, which allows the system to support an additional 16 conventional adder modules. The base panel also consists of 4 Class A/B (Style Z/Y) Indicating Circuits rated at 1.7 Amps each and either a 6 or 12 Amp Power Supply.

Equipped with a large 4 x 20 Back-lit Alphanumeric LCD display, the FX-2000 utilizes a simple Menu system complete with a directional keypad, common control switches and LEDs, Alarm Queue switches and LEDs and two configurable input switches.

Features

- Listed to UL 864, 9th edition
- Large system capacity
- Modular design
- Each Analog Loop is capable of supporting 99 Analog Sensors and 99 Addressable Modules which can be wired in Class A (Style 6 or 7) or Class B (Style 4)
- Base system supports 16 conventional hardwired modules with the provision to add more using the ALC-H16 Hardwire Loop Controller Module
- 6 or 12 Amp power supply
- Four Class A/B (Style Z/Y) Indicating Circuits rated at 1.7 Amps each
- Configurable for Two Stage operation
- Three level password protection with field programmable definition which enables the installer to determine what functions are accessible for each password level
- Panel Security to protect site configurations
- Manual Control Enable which allows password protection for all front panel function switches
- Correlatable Switch Inputs which allows for multi-functional outputs
- Four Alarm Queues with selector switches and LEDs for Alarm, Supervisory, Monitor and Trouble
- Auxiliary relay contacts for Common Alarm, Common Supervisory and Common Trouble
- RS-232 output for remote system printer or CRT
- Two Event History Logs comprised of a 1000 Alarm History Log for alarm related events and a 2000 Event Log for all events
- Front Panel Auto-Configure and/or Computer laptop Programmable
- Large 4 by 20 character Back-lit LCD Display with user friendly menu
- Common Control switches and/or indicating LEDs for System Reset, Signal Silence, Fire Drill, Acknowledge, General Alarm, Lamp Test, A.C. On, Pre-Alarm and Ground Fault
- Built-in One Man Walk Test operation
- Configurable for Coded Operation
- Supports an RS-485 interface to the QX-5000 Voice Evacuation System
- Panel selection for Canadian (ULC) or U.S.A. (UL) requirements for smoke sensors (sensitivity) via computer laptop
- Capability to adjust Intelligent Smoke Detector sensitivity level

S7010 S7010 7165-1477:111 7170-1477:119 FM 3013980 MEA approved 313-97-E City of Chicago Class I (Con) E15095 Class I (Con) E15096 Class I (Add) E15097 Class II (Add) E15098 Highrise

CATALOG NUMBER 5910

NOT TO BE USED FOR INSTALLATION PURPOSES.
Mircom reserves the right to make changes at any time without notice in prices, colours, materials, components, equipment, specifications and models and also to discontinue models.

Operation

The FX-2000 is field programmable via the front panel auto configuration or a laptop computer. In addition, it allows for a three level password protection that can be field defined via a laptop computer. This unique feature allows the installer to determine what functions are accessible for each password level.

The system is also equipped with two Event History Logs; one for Alarm and the other for full panel sequence events. The Alarm History Log (1000 events) contains all alarm related functions while the Event Log (2000 events) provides a full sequence log of all operations, as well as alarms and troubles. Both Event History Logs can be used during the One Man Walk Test operation. This allows the event logs to be downloaded to a laptop or printer for a permanent record.

The FX-2000 is a very flexible system which supports both internal and external annunciation modules. The internal annunciation modules consist of the RAX-1048TZDS Programmable Zone LED Annunciator, the IPS-2424DS Programmable Input Switches Module, the FDX-008 Fan Damper Module and the AGD-048 Adder Graphic Driver Module.

All of these modules mount within the panel and are driven from the main LCD display. The external annunciator modules include the RAM-1032TZDS and RAX-1048TZDS LED Remote Annunciators, the MGD-32 Master Graphic Driver Module, the MGDS-16/16 Master Graphic Driver Module and the RAX-LCD Remote LCD Shared Display. The RAX-LCD Remote LCD Shared Display provides the same features as the main display on the FX-2000. In addition the RAX-LCD also acts as a driver module that allows for the RAX-1048TZDS, IPS-2424DS, FDX-008 and AGD-048 to be connected to it. The RAX-LCD is required as a driver module any time any of the above mentioned external annunciator modules are programmed differently from those on the main panel or are mounted remote from the main panel.

In addition to these adder modules, the FX-2000 also supports the UDACT-300A Digital Communicator Module and the PR-300 Polarity Reversal/City Tie Module. The FX-2000 also supports an RS-485 interface to the QX-5000 Emergency Zoned Audio System.

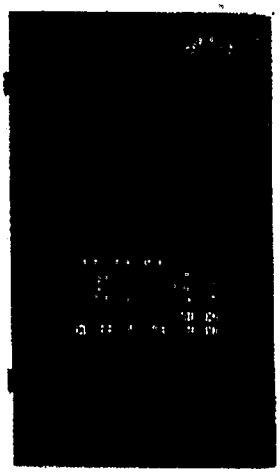
Input Correlations

All input circuits (addressable or hardwired) can be configured for non-verified alarm, verified alarm, waterflow, latching/non-latching supervisory, monitor, trouble only or remote switch inputs. All of the input configuration types listed above, with the exception of remote switch can be programmed to operate relays, signal and strobe circuits for hardwired or addressable devices. Please refer to the chart below for correlations. The input circuits configured as non-latching will cause the output circuits configured to them to follow the state of the input device. This feature allows for the connection of multiple panels together for signal operation.

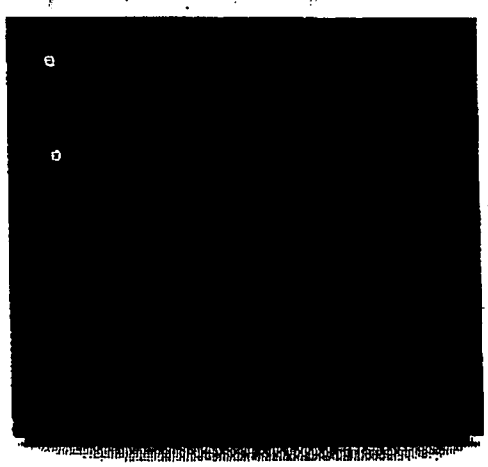
The Remote Switch Input, which must be momentary, allows any input type device (addressable or hardwired) to be configured as a common control functions such as fire drill, system reset, signal silence etc. The remote switches operate in a momentary mode like the control switches on the FX-2000 main panel. For functions such as fire drill, the remote switch functions in a toggle mode, with one press for "on" and one press for "off". The remote switch is supervised for "stuck in on" positions, where the switch input is activated (stuck) for more than 30 seconds. If this occurs, a trouble is generated and clears when the input goes away.

Intelligent or Conventional Input Types	Output			
	Relay	Signal	Strobe	Control Switches
Non-Verified Alarm	Yes	Yes	Yes	No
Verified	Yes	Yes	Yes	No
Waterflow	Yes	Yes	Yes	No
Non-Latching Supervisory	Yes	Yes	Yes	No
Latching Supervisory	Yes	Yes	Yes	No
Monitor	Yes	Yes	Yes	No
Trouble Only	Yes	Yes	Yes	No
Remote Switch Input	No	No	No	Yes

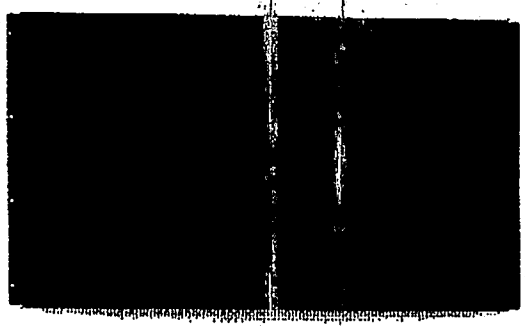
FX-2000 Standard Series



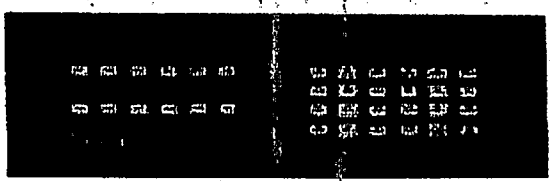
FX-2003-6DS/FX-2003-12DS Compact Main Control Units
The FX-2003-6DS and FX-2003-12DS Compact Main Control Units come complete with one Intelligent Signaling Line Circuit, Four Style Z/Y (Class A/B) Notification Appliance Circuits rated at 1.7 Amps each and a 4 line by 20 character back-lit LCD display. The FX-2003-6DS is equipped with a 6 Amp Power Supply which charges 10-24 AH batteries while the FX-2003-12DS includes a 12 Amp Power Supply which charges 17-55 AH batteries. The FX-2003-6DS/FX-2003-12DS provides space for 3 adder modules and 2 internal annunciator adder modules. The FX-2003-6DS/FX-2003-12DS mount in a UB-1024DS backbox.



FX-2017-12ADS Mid-Size Main Control Unit
The FX-2017-12ADS Mid-Size Main Control Unit comes complete with one Intelligent Signaling Line Circuit (SLC) Four Style Z/Y (Class A/B) NAC Circuits (1.7 Amps each), a 4 line by 20 character back-lit LCD display and a 12 Amp Power Supply which charges 17-55 AH batteries. The FX-2017-12ADS has space for up to 17 adder modules and 3 internal annunciator adder modules. The FX-2017-12ADS mounts in the BBX-1072ADS enclosure.



FX-2009-12DS Large Size Main Control Unit
The FX-2009-12DS Large Size Main Control Unit comes complete with one Analog Loop Controller (99 Analog Sensors and 99 Addressable Modules), 4 Class A/B (Style Z/Y) Indicating Circuits (1.7 Amps each), a 4 line by 20 character back-lit LCD display and a 12 Amp Power Supply which charges 17-55 AH batteries. The FX-2009-12DS supports 16 conventional adder modules and provides space for up to 9 adder modules and 3 internal annunciator adder modules. The FX-2009-12DS mounts in the BB-5000 Series enclosures.



ECX-0012 Expander Chassis
The ECX-0012 Expander Chassis for the FX-2009-12DS/FX-2009S-12 supports up to 12 adder modules and has space for 2 internal annunciator modules. The ECX-0012 mounts in the BB-5000 series enclosures.

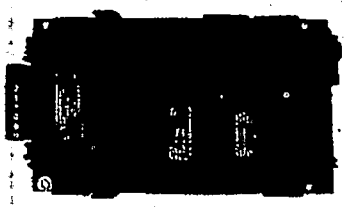
FX-2000 Standard Series System Maximums

- **500** Input Circuits
- **150** Output Circuits
- **5** Intelligent Addressable Loops
- **4** Remote LCD Annunciators
- **4** Main LED Annunciators
- **100** Manual Control Switches

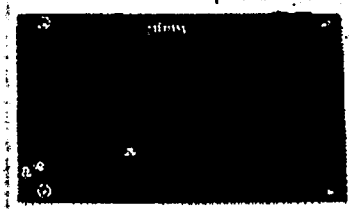
Adder Loop Controller Modules



ALC-198S Single Analog Loop Controller Module
The ALC-198S Single Analog Loop Controller Module provides an additional analog loop to the FX-2000 consisting of 99 Analog Sensors and 99 Addressable Modules. The ALC-198S occupies one module slot in the FX-2000 main or expander chassis.

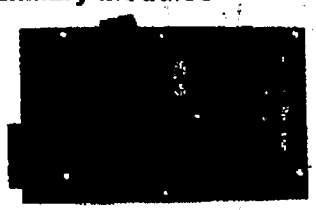


ALC-396S Dual Analog Loop Controller Module
The ALC-396S Dual Analog Loop Controller Module provides two additional analog loops to the FX-2000 consisting of 99 Analog Sensors and 99 Addressable Modules per loop. The ALC-396S occupies one module slot in the FX-2000 main or expander chassis.



ALC-H16 Hardwire Loop Controller Module
The ALC-H16 Hardwire Loop Controller Module allows the FX-2000 to support an additional sixteen (16) conventional hardwire adder modules. The hardwire modules consist of the DM-1008 Eight Initiating Circuit Module, SGM-1004 Four Indicating Circuit Module and the RM-1008 Eight Relay Circuit Module. The ALC-H16 occupies one module slot in the FX-2000 main or expander chassis.

Adder Auxiliary Modules

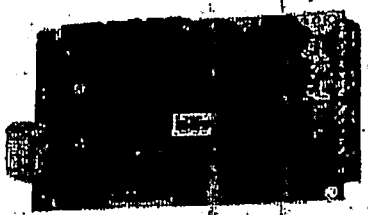


UDACT-300A Digital Alarm Communicator Module
The UDACT-300A Digital Alarm Communicator Module allows the FX-2000 to transmit addressable point information to a central station. The UDACT-300A can be configured locally via the on-board keypad and the CFG-300 Configuration Tool or with a UIMA programming tool and a computer with an available serial or USB port. The UDACT-300A occupies one module slot in the FX-2000 main or expander chassis.

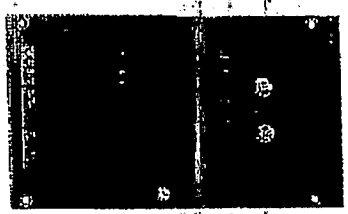
Adder Hardwire Modules



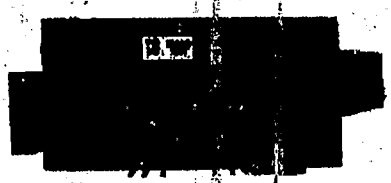
DM-1008A Eight Initiating Circuit Module
The DM-1008A provides 8 Class B (Style B) or 4 Class A (Style D) Initiating Circuits configurable for Alarm, Supervisory or Trouble zones. The DM-1008A occupies one module slot in the FX-2000 main or expander chassis.



SGM-1004A Four Indicating Circuit Module
The SGM-1004A provides 4 Class A/B (Style Z/Y) Indicating Circuits configurable as Silenceable or Non-Silenceable. Each Indicating Circuits is rated at 1.7 Amps. Each of the indicating circuits have individual signal silence inputs which are jumper selectable. The SGM-1004A occupies one module slot in the FX-2000 main or expander chassis.

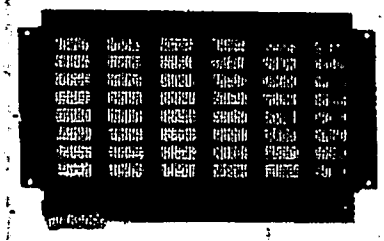


RM-1008A Eight Relay Circuit Module
The RM-1008A provides the FX-2000 with 8 individual configurable relays per module. Each relay provides one Form C contact rated at 28 VDC @1 Amp (resistive load). The RM-1008A occupies one module slot in the FX-2000 main or expander chassis.



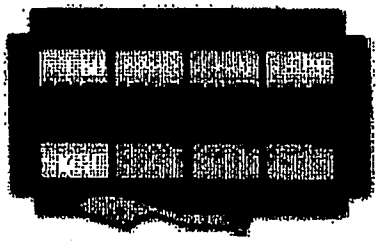
PR-300 Polarity Reversal/City Tie Module
The PR-300 Polarity Reversal/City Tie Module provides the system with a supervised City Tie (24 VDC/200 mA max.) and Polarity Reversal connection (24 VDC (open circuit), 8 mA max. (shorted)). The PR-300 mounts in the FX-2000 main chassis.

Programmable Modules



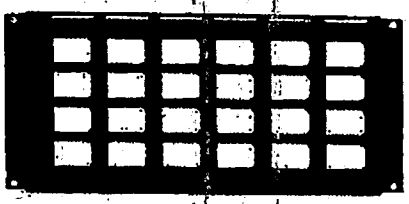
RAX-1048TZDS Programmable Zone LED Annunciator Module

The RAX-1048TZDS Programmable Zone LED Annunciator Module provides 48 programmable bi-coloured LEDs. The RAX-1048TZDS connects to the main panel or the RAX-LCD Shared Display when mounted remotely. The RAX-1048TZDS occupies one display position in the BB-1000 or BB-5000 enclosures.



FDX-008 Fan Damper Module

The FDX-008 Fan Damper Module provides individually programmed circuits which can be used for fan or damper control. Each circuit has a slide-in label, a three position selector switch, green "run or open" LED and an amber "off or closed" LED. The three-position selector switch has a centre "auto" position, a left "off or close" position and a right "on or open" position. The FDX-008 connects to the main panel or the RAX-LCD when mounted remotely. It uses MIX-M500CH for control of fans or dampers and two MIX-M501A for status. The FDX-008 occupies one display position in the BB-1000 or BB-5000 enclosures.



IPS-2424DS Programmable Input Switches Module

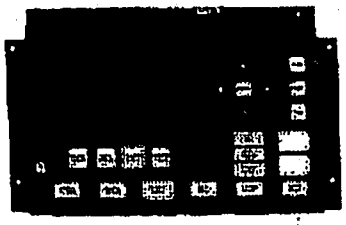
The IPS-2424DS Programmable Input Switches Module provides 24 programmable switches that can be configured for ancillary functions such as zone bypass or added common control functions. The switches operate in a toggle operation with one press for "on" and one press for "off". The IPS-2424DS connects to main panel or the RAX-LCD when mounted remotely. The IPS-2424DS occupies one display position in the BB-1000 or BB-5000 enclosures.

Electrical Ratings

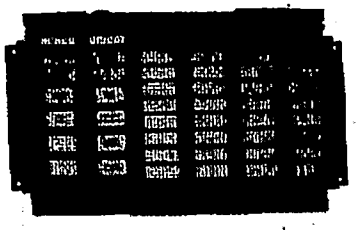
Current Consumption

FX-2003-6DS FX-2003-12DS	230 mA	380 mA
FX-2017-12ADS	230 mA	380 mA
FX-2009-12DS	230 mA	380 mA
ALC-198S/ALC-396S	35 mA	50 mA
ALC-H16	35 mA	50 mA
DM-1008A	80 mA	100 mA
SGM-1004A	35 mA	150 mA
RM-1008A	25 mA	150 mA
PR-300	50 mA	300 mA
UDACT-300A	40 mA	60 mA
RAX-LCD	100 mA	150 mA
IPS-2424DS	10 mA	144 mA
FDX-008	10 mA	100 mA
MGD-32	35 mA	1.6 Amps
AGD-048	25 mA	2.4 Amps
RAM-1032TZDS	50 mA	150 mA
RAX-1048TZDS	15 mA	100 mA

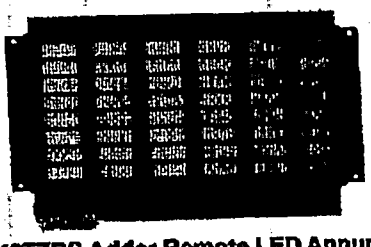
Remote Annunciators



RAX-LCD Remote Shared Display
The RAX-LCD Remote Shared Display is a remote annunciator that provides the same functions as the main display on the fire alarm control panel, less the 16 zone LEDs. In addition to operating as a remote annunciator, it can also be used as a driver module for standard LED annunciation or reduced zone annunciation (different from the main panel annunciation), graphic drivers programmed different from the main annunciators, programmable switch modules with a unique configuration and fan damper control also with a unique configuration. Each time a different type of annunciation configuration is needed an additional RAX-LCD is required. The RAX-LCD occupies one display position in the BB-1000 or BB-5000 enclosures.



RAM-1032TZDS Main Remote LED Annunciator
The RAM-1032TZDS Main Remote LED Annunciator provides common annunciator functions and 32 points of LED annunciation. Each display point can be identified by the slide-in label that slides in beside the LED. The RAM-1032TZDS is equipped with sealed membrane-like buttons for Common Control functions. The RAM-1032TZDS allows for the control switches to be disabled on a per function basis for areas that do not require certain common control functions to be remotely located from the fire alarm control panel. The RAM-1032TZDS can be programmed differently than the main panel annunciator or a remote RAX-LCD. All RAM-1032TZDS remote annunciators on the system must be programmed the same. The RAM-1032TZDS occupies one display position in the BB-1000 or BB-5000 enclosures.

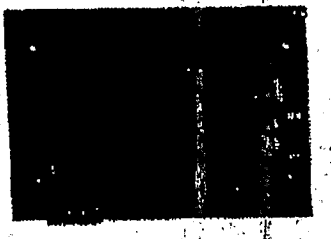


RAX-1048TZDS Adder Remote LED Annunciator
The RAX-1048TZDS Adder Remote LED Annunciator provides an additional 48 points of LED annunciation. The RAX-1048TZDS is an expandible module that connects to the RAM-1032TZDS. The RAX-1048TZDS occupies one display position in the BB-1000 or BB-5000 enclosures.

Graphic Annunciator Driver Modules



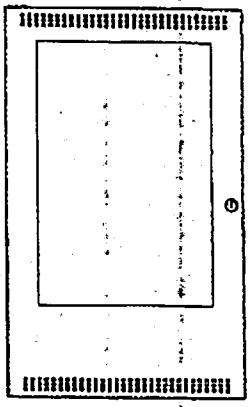
MGD-32 Master Graphic Driver Module
The MGD-32 Master Graphic Driver Module provides common control inputs for the common control switches such as System Reset, Signal Silence, Auxiliary Disconnect, Fire Drill, Lamp Test, Acknowledge and General Alarm. Any or all of these switch inputs can be used. There are supervised outputs for all of the support LEDs and the common control switches. The MGD-32 can also drive up to 32 supervised outputs. These output points are capable of driving LEDs or incandescent lamps. Mounts in a graphic annunciator wallbox or in the BB-5000 enclosures. External power supply required for incandescent lamps and lamp test.



AGD-048 Adder Graphic Driver Module
The AGD-048 Adder Graphic Driver Module can be used with either the MGD-32 or MGDS-16/16 Master Graphic Driver modules, or if located remotely it must be connected and mounted with the RAX-LCD Shared Display. The AGD-048 will support an additional 48 supervised outputs. As with the master modules, the AGD-048 will support both LEDs and incandescent lamps. Mounts in a graphic annunciator wallbox or in the BB-5000 enclosures.

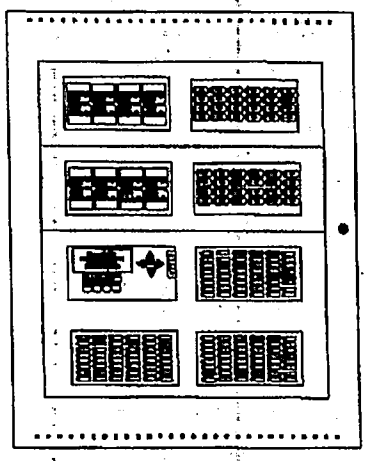
NOTE:
The combined total of RAM-1032TZDS and MGD-32 per system is eight. All RA-1000 Series annunciators or Graphic driver modules must have the zoned LED or graphic LED correlated to the same combination of addressable devices or hardwired zones. However, the zoned LED annunciator on the FX-2000 main panel can be programmed differently from the annunciators mounted remotely.

Enclosures



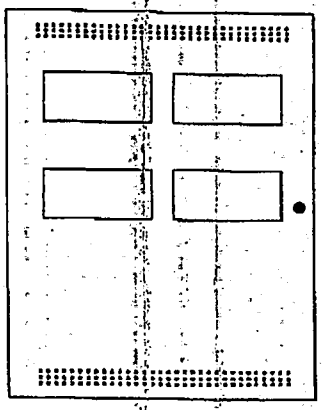
UB-1024DS Universal Backbox
The UB-1024DS Universal Backbox houses the FX-2003-6DS or FX-2003-12DS main control unit and provides space to mount up to 17 AH batteries. A DOX-1024DS(R) door is ordered separately.
Dimensions (minus built-in trim ring): 26"H x 14.5"W x 4.2"D

DOX-1024DS(R) Door
The DOX-1024DS mounts on the UB-1024DS backbox. The door features the universal CAT-30 lock and is available in a white (DOX-1024DS) or red exterior (DOX-1024DSR).

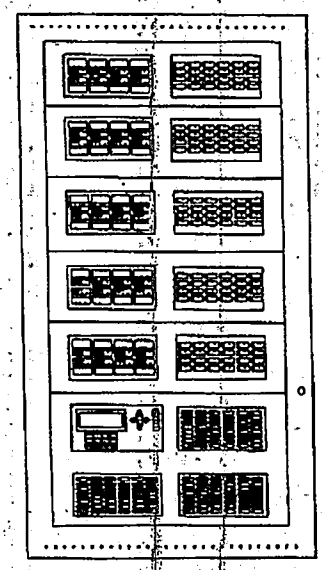


BB-5008
The BB-5008 is a lobby control centre enclosure which is capable of handling one FX-2009-12DS Large Main Control Unit which supports 2 internal annuciator modules such as the IPS-2424DS, FDX-008, RAX-1048TZDS, etc. In addition the BB-5008 allows for 4 footprints for mounting Audio Lobby Control modules, Fire Fighter's Lobby Control modules and FX-2000 Internal Annunciator modules. The cabinet hold up to 24 AH batteries. Door and Chassis hardware are ordered seperately.
Dimensions: 36"H x 30"W x 7"D

Other Enclosures
BB-1001: 9"H x 12.75"W x 1.2"D
BB-1002: 18"H x 12.75"W x 1.2"D
BB-1003: 26.4"H x 12.75"W x 1.2"D
BB-1008: 33"H x 22.5"W x 1.25"D
BB-1012: 45"H x 22.5"W x 1.25"D

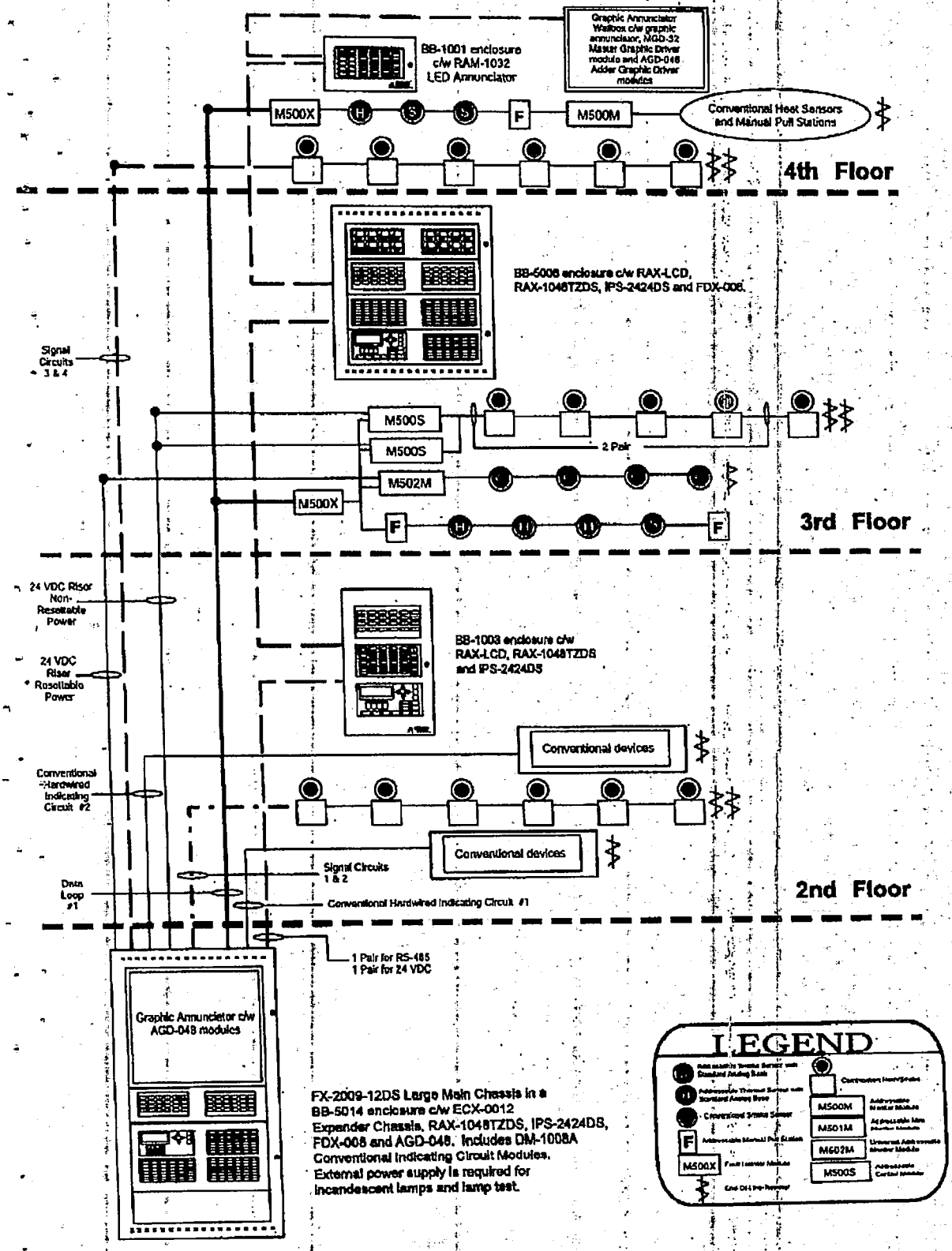


BBX-1072ADS
The BBX-1072ADS enclosure is capable of handling one FX-2017-12ADS Mid-Size Main Control Unit as well as up to 24 AH Batteries. The cabinet features the universal CAT-30 lock and a removable door for easy installation and servicing. The cabinet is available in a white or red exterior (BBX-1072ARDS).
Dimensions (minus built-in trim ring): 32.5"H x 25"W x 6 .5"D



BB-5014
The BB-5014 is a lobby control centre enclosure which is capable of handling one FX-2009-12DS Large Main Control Unit which supports 2 internal annuciator modules such as the IPS-2424DS, FDX-008, RAX-1048TZDS, etc. In addition the BB-5014 allows for 10 footprints for mounting Audio Lobby Control modules, Fire Fighter's Lobby Control modules and FX-2000 Internal Annunciator modules. The BB-5014 can also support a graphic annunciator in place of these modules. The cabinet holds up to 24 AH batteries. Door and Chassis hardware are ordered seperately.
Dimensions: 60"H x 30"W x 7"D

Typical FX-2000 Panel Wiring Class B (Style 4)



FX-2009-12DS Large Main Chassis in a BB-5014 enclosure c/w ECX-0012 Expander Chassis, RAX-1048TZDS, IPS-2424DS, FDX-008 and AGD-048. Includes DM-1008A Conventional Indicating Circuit Modules. External power supply is required for incandescent lamps and lamp test.

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NOT TO BE USED FOR INSTALLATION PURPOSES.

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Ordering Information

Model	Description
FX-2000 Standard Series	
FX-2003-6DS	Compact Main Control Unit c/w one Intelligent Analog Loop Controller (99 Analog Sensors and 99 Addressable Modules), 4 x 20 Back-lit LCD display, 4 Class A/B (Style Z/Y) Indicating Circuits (1.7 Amps each), a 6 Amp power supply and a backbox. Supports up to 16 Conventional Adder Modules. Provides space for 3 Adder Modules and 2 internal annunciation modules. Order UB-1024DS and DOX-1024DS(R) separately.
FX-2003-12DS	Compact Main Control Unit c/w one Intelligent Analog Loop Controller (99 Analog Sensors and 99 Addressable Modules), 4 x 20 Back-lit LCD display, 4 Class A/B (Style Z/Y) Indicating Circuits (1.7 Amps each), a 12 Amp power supply and a backbox. Supports up to 16 Conventional Adder Modules. Provides space for 3 Adder Modules and 2 internal annunciation modules. Order UB-1024DS and DOX-1024DS(R) separately.
FX-2017-12ADS	Mid-Size Main Control Unit c/w one Intelligent Analog Loop Controller (99 Analog Sensors and 99 Addressable Modules), 4 x 20 Back-lit LCD display, 4 Class A/B (Style Z/Y) Indicating Circuits (1.7 Amps each) and a 12 Amp power supply. Supports up to 16 Conventional Adder Modules. Provides space for 17 Adder Modules and 3 Internal Annunciation modules. Mounts in the BBX-1072ADS enclosure.
FX-2009-12DS	Large Main Control Unit c/w one Intelligent Analog Loop Controller (99 Analog Sensors and 99 Addressable Modules), 4 x 20 Back-lit LCD display, 4 Class A/B (Style Z/Y) Indicating Circuits (1.7 Amps each) and a 12 Amp power supply. Supports up to 16 Conventional Adder Modules. Provides space for 9 Adder Modules and 3 Internal Annunciation modules. Mounts in the BB-5000 series enclosures.
ECX-0012	Expander Chassis for the FX-2009-12DS c/w space to add up to 12 adder modules and 2 Internal Annunciation modules. Mounts in the BB-5000 series enclosures.
Adder Loop Controller Modules	
ALC-196S	Single Loop Intelligent Analog Loop Controller Module (99 Analog Sensors and 99 Addressable Modules)
ALC-396S	Dual Loop Intelligent Analog Loop Controller Module (198 Analog Sensors and 198 Addressable Modules)
ALC-H16	Hardwire Loop Controller Module. Supports 16 Conventional Hardwired Modules.
Adder Hardwire Modules	
DM-1008A	Eight Class B (Style B) or 4 Class A (Style D) Initiating Circuit Module
SGM-1004A	Four Class A/B (Style Z/Y) Indicating Circuit Module (Rated at 1.7 Amps per circuit)
RM-1008A	Eight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)
Adder Auxiliary Modules	
UDACT-300A	Digital Alarm Communicator Transmitter/Dialer Module
PR-300	Polarity Reversal and City Tie Module
Programmable Modules	
RAX-1048TZDS	Programmable Zone LED Annunciator Module c/w 48 bi-coloured LEDs
IPS-2424DS	Programmable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDs
FDX-008	Fan Damper Control Module c/w 8 programmable switches
Remote Annunciators	
RAM-1032TZDS	Main Annunciator Chassis c/w Common Control Features, Indicators and 32 Bi-Coloured LEDs
RAX-1048TZDS	Adder Annunciator Chassis c/w 48 Bi-Coloured LEDs
RTI-1	Remote Trouble Indicator
Remote Shared Display Annunciators	
RAX-LCD	Remote Shared Display LCD Annunciator c/w Display Queues and Common Controls.
Graphic Annunciator Driver Modules	
MGD-32	Master Graphic Driver Module c/w Fire Alarm Common Control Switch Inputs and 32 Supervised Outputs.
AGD-048	Adder Graphic Driver Module c/w 48 Supervised Outputs
Enclosures	
UB-1024DS	Universal backbox for FX-2003-6DS/FX-2003-12DS. Order DOX-1024DS separately.
DOX-1024DS	White door for UB-1024DS backbox.
DOX-1024DSR	Red door for UB-1024DS backbox.
BBX-1072ADS	Black backbox enclosure for FX-2000 c/w removable door and CAT-30 lock and key. Houses one FX-2017-12ADS Mid-Size Main Control Unit and up to 24 AH batteries. Includes White door.
BBX-1072ARDS	Black backbox enclosure for FX-2000 c/w removable door and CAT-30 lock and key. Houses one FX-2017-12ADS Mid-Size Main Control Unit and up to 24 AH batteries. Includes Red door.
BB-5008	Lobby Control Centre Wallbox Enclosure. Supports 8 Module Footprints.
DOX-5008M	White Metal Door for BB-5008.
DOX-5008MR	Red Metal Door for BB-5008.
CCH-5008	Custom Mounting Kit for BB-5008. One required per BB-5008.
BB-5014	Lobby Control Centre Wallbox Enclosure. Supports 14 Module Footprints.
DOX-5014M	White Metal Door for BB-5014.
DOX-5014MR	Red Metal Door for BB-5014.
CCH-5014	Custom Mounting Kit for BB-5014. One required per BB-5014.

NOT TO BE USED FOR INSTALLATION PURPOSES.

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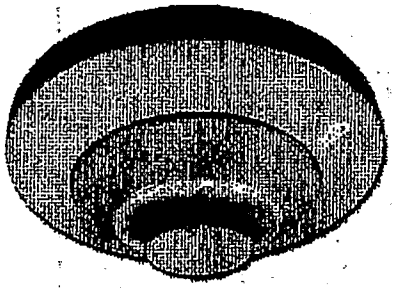
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Rev. 10

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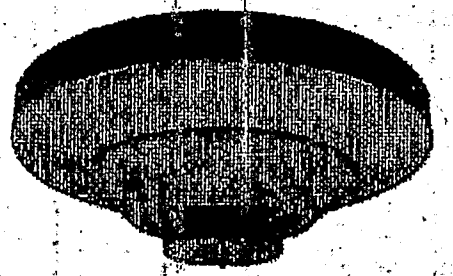
INTELLIGENT LOW PROFILE SENSORS MIX-200 SERIES

Mircom's MIX-200 Series intelligent plug-in smoke detectors with integral communication provide features that surpass conventional detectors. Detector sensitivity is continuously monitored and reported to the FX-2000 Fire Alarm Control Panel. Point ID capability allows each detector's address to be set with decade address switches, providing exact detector locations for selective maintenance when chamber contamination reaches an unacceptable level.



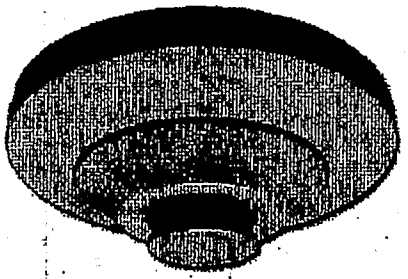
Intelligent Low Profile Ionization Smoke Sensor (MIX-1251B)

The Intelligent Ionization Smoke Sensor is constantly monitored to measure any change in its sensitivity due to the environment (dirt, aging, temperature, humidity, etc.) It can give an advance indication to the FX-2000 analog control panel of the need for maintenance and can be specific as to where the maintenance is needed. It can be mounted in a number of different bases. See the Ordering Information for a list of these bases and their descriptions.



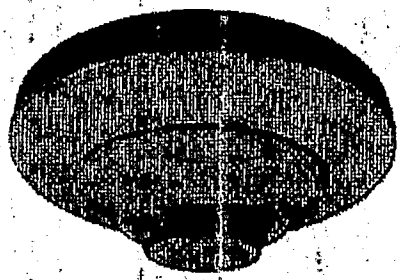
Intelligent Low Profile Photoelectronic Smoke Sensor (MIX- 2251B)

The Intelligent Photoelectronic Smoke Sensor is constantly monitored to measure any change in its sensitivity due to the environment (dirt, aging, temperature, humidity, etc.) It can give an advance indication to the FX-2000 analog control panel of the need for maintenance and can be specific as to where the maintenance is needed. It can be mounted in a number of different bases. See the Ordering Information for a list of these bases and their descriptions.



Intelligent Thermal Sensors (MIX-5251B/MIX-5251RB/MIX-5251H)

The Intelligent Thermal Sensors contain a dual thermistor sensing circuit for fast response. They provide open area protection with 50 foot spacing. The sensors rapid response characteristic virtually eliminates the thermal lag which is characteristic of conventional heat detectors and insures operation as soon as the temperature reaches its set point (MIX-5251B), or upon a temperature rise of 15°F per minute (MIX-5251RB). The MIX-5251H provides fixed high temperature detection at 190°F. These sensors can be mounted in a number of different bases. See the Ordering Information for a list of these bases and their descriptions.



Intelligent Low Profile Photoelectronic Smoke Sensor with Thermal (MIX-2251TB)

The MIX-2251TB has the same features as the MIX-2251B and includes a 135°F thermal sensor. It can be mounted in a number of different bases. See the Ordering Information for a list of these bases and their descriptions.

S6295 (MIX-1251B, MIX-2251B & MIX-2251TB)
S6299 (MIX-5251B/RB/H)

S6985 (MIX-1251B, MIX-2251B & MIX-2251TB)
S7498 (MIX-5251B/RB/H)

7271-1477:122 (MIX-1251B)
7271-1477:117 (MIX-2251B/TB)
7271-1477:114 (MIX-5251B/RB/H)

MEA approved
148-03-E (MIX-1251B)
219-02-E (MIX-2251B/TB)
390-02-E (MIX-5251B/RB/H)

MSFM approved
2151 (MIX-1251B)
2131 (MIX-2251B/TB)

FM APPROVED 3017996

CATALOG NUMBER 5904

NOT TO BE USED FOR INSTALLATION PURPOSES.
Mircom reserves the right to make changes at any time without notice in prices, colours, materials, components, equipment, specifications and models and also to discontinue models.

Specifications

Height
2.0 inches (51 mm)

Diameter
6.1 inches (155 mm) Installed in B210LP Base
4.1 inches (104 mm) Installed in B501 Base

Shipping Weight
Heat: 4.8 oz. (137 g)
Photo/Photo with Heat: 5.2 oz. (147 g)
Ion: 5.4 oz. (154 g)

Operating Temperature Range
Ion/Photo: 32°F to 120°F (0°C to 49°C)
Photo with Thermal: 32°F to 100°F (0°C to 38°C)
Thermal: -4°F to 100°F (-20°C to 38°C)
High Temperature: -4°F to 100°F (-20°C to 66°C)

UL Listed Velocity Range
Ion: 0 - 1200 fpm (0 - 5.1 m/sec)
Photo/Photo with Thermal: 0 - 4000 fpm (0 - 20 m/sec)

Relative Humidity
10% - 93% noncondensing

Insect Screen Hole Size
Photo: 0.016 inch (0.41mm) nominal
Ion: 0.035 inch (0.89mm) nominal

Thermal Ratings
Fixed Temperature Setpoint: 135°F (57°C)
Rate of Rise Detection: 15°F/min. (8.3°C/min.)
High Temperature: 190°F (88°C)

Voltage Range
15 - 32 volts DC peak

Standby Current
Ion/Thermal:
150 uA @ 24 VDC (without communication, LED off)
200 uA @ 24 VDC (one communication every 5 sec. with LED enabled)

Photo/Photo with Thermal:
250 uA @ 24 VDC (without communication, LED off)
300 uA @ 24 VDC (one communication every 5 sec. with LED enabled)

LED Current (max.)
6.5 mA @ 24 VDC (on)

Note: Mounting sensors outside of the specified temperature ranges will cause sensor failures and erratic panel operation.

Ordering Information

Model	Description
Intelligent Addressable Analog Sensors	
MIX-1251B	Intelligent Low Profile Ionization Smoke Sensor
MIX-2251B	Intelligent Low Profile Photoelectronic Smoke Sensor
MIX-2251TB	Intelligent Low Profile Photoelectronic Smoke Sensor c/w 135°F Fixed Temp. Thermal Sensor
MIX-5251B	Intelligent Low Profile Fixed Temp. Thermal Sensor 135°F
MIX-5251RB	Intelligent Low Profile Fixed Temp. and Rate of Rise Thermal Sensor 135°F
MIX-5251H	Intelligent Low Profile High Temperature Thermal Sensor 190°F
Intelligent Analog Bases	
B210LP	Intelligent Flanged Mounting Base
B224BI	Intelligent Isolator Base
B224RB	Intelligent Relay Base*
B501	Intelligent Flangeless Mounting Base
B501BH	Intelligent Sounder Base
B501BHT	Intelligent Temporal Tone Sounder Base
Accessories	
RA-400Z	Remote LED Annunciator

***Note:** For Canadian models add suffix "A".*
** When used with the M500X Fault Isolator Module, the number of relay bases between fault isolators is limited to 12.*

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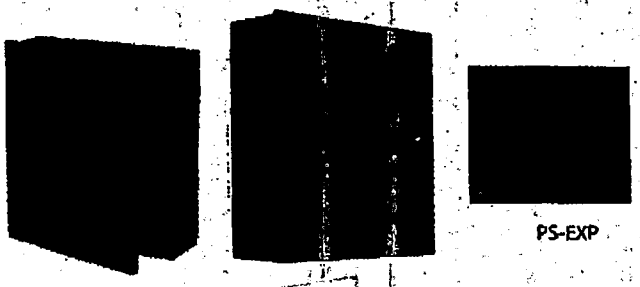
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Rev. 5

ISO 9001:2000 REGISTERED

COOPER Notification

POWERPATH™ NAC POWER SUPPLIES



PS-6 PS-8

Description

The Wheelock Series PS-6 and PS-8 are 24VDC, filtered and regulated, supervised remote power supply/battery chargers are used for supervision and expanded power driving capability of Fire Alarm Notification Appliance Circuits. The PS-6 provides 6 amps of power distributed across 4 outputs, while the PS-8 provides 8 Amps across 4 output. In addition the PS-8 provides additional room in the chassis for accessories like an Addressable Control Module, with mounting studs.

The Power Supplies may be connected to any 12V or 24V (FWR or DC) Fire Alarm Control Panel (FACP) by using a Notification Appliance Circuit (NAC) or a "Dry Contact". Primary applications include NAC expansion (supports ADA requirements) and auxiliary power to support system accessories. This unit provides filtered and regulated 24VDC, up to four (4) Class "B", two (2) Class "A", or two (2) Class "B" and one (1) Class "A" Notification Appliance Circuits. With the optional plug-in PS-EXP module the unit supports (8) Class "B" or (4) Class "A" Notification Appliance Circuits. Additionally, an auxiliary power output of 2.5 Amps (disconnected upon AC power loss or an alarm condition) or up to 0.240 A of constant power on the PS-8 and 0.075 A of constant power on the PS-6.

The Wheelock Power Supplies can accommodate 7 or 12 AH batteries inside its lockable chassis. Using an external battery cabinet it can charge up to 33 AH batteries (pending UL testing). Two FACP NAC circuits or two "Dry" contact initiating circuits can be connected to the inputs. These inputs can then be directed to control supervision and power delivery to any combination of the four (4) outputs. Each output is rated at 3.0 Amps (Class "B") or (Class "A") and can be programmed to generate a steady or Code 3 Temporal Horn sound and a strobe output under alarm condition. Total load for the PS-6 and PS-8 NAC circuits must not exceed the power supplies rated output.

The Power Suppliesunder non-alarm condition provides independent supervision for Class "A" and Class "B" FACP NAC circuits. In the event of circuit trouble, the FACP will be notified via the POWERPATH steered input (IN1 or IN2). In addition there are two sets of trouble reporting terminals, one used for AC power loss reporting and the other for all troubles. The AC power loss reporting, on the common trouble terminals and on IN1 or IN2, can be delayed for either 30 seconds or 170 minutes. The AC power loss terminals will always report the trouble within 1 second after loss of AC power.

The PS-6 and PS-8 Power Supplies are UL Listed under UL Standard 864, 9th Edition to be used with any 24 volt Listed Regulated notification appliances. They include the capability to synchronize Wheelock strobes and horns and to silence the horn signal when horn/strobes are operating on two wires.

Approvals

- Approvals include: UL Standard 864, 1481, California State Fire Marshal (CSFM), Factory Mutual (FM)
- Compliant with NFPA 72

Inputs

- 120VAC, 50/60Hz, 4.25 Amps (PS-6/8) and 5.32 Amps (PS-8) Operating Power in Alarm
- 240VAC, 60Hz, 2.42 Amps (PS-6E and 3.22 Amps (PS-8E) Operating Power in Alarm
- 24VDC Battery Backup Connection
- Two (2), 12V or 24V NAC Initiating Circuits (8-33V at 5mA) FWR or DC
- Two (2) "Dry" Contact Initiating Circuits
- Accepts two (2) Class "A" or two (2) Class "B" circuit inputs
- Built in battery charger for sealed lead acid or gel type batteries

Outputs

- NAC outputs are 24VDC, 3.0 Amps each, power limited
- 8 Amps on PS-8 and 6 Amps on the PS-6 total alarm current

...Features continued on next page

- Capable of four (4), Class "B" circuits
- Capable of two (2) Class "A" circuits
- Capable of one (1) Class "A" circuit and two (2) Class "B" circuits
- Capable of (8) Class "B" or four (4) Class "A" circuits with optional PS-EXP module
- Temporal (Code 3), constant voltage output, Wheelock Sync output or True Input to output follower mode
- Built-in Wheelock synchronization mode that can be fed to any or all of the output circuits
- Input and output can be synchronized with "IN>OUT SYNC" mode (DSM, 2nd POWERPATH™ or FACP with synchronization protocol is required)
- Audible silence capability
- Filtered and electronically regulated output
- 2.5 Amp auxiliary power limited output with reset capability. (Removed upon AC loss or alarm. Automatic reset 30 seconds after AC power returns or the alarm condition is over) or 0.075 Amps (PS-6) or 0.240 Amps (PS-8) of auxiliary power limited output which remains on during AC loss or an alarm condition when configured for 24 hour battery backup

Supervision

- Compatible with 12V or 24V (FWR or DC) FACP
- Signaling appliance circuits are supervised and steered to either IN1 or IN2
- 10K Ohm, 1 Watt (Wheelock Model #MPEOL) End of Line Resistor (EOLR) for supervision of all outputs
- 37 distinguishable trouble diagnostics
- AC loss trouble reported over a separate set of contacts (delay of 1 second)
- All troubles are reported over the common trouble contacts (AC loss can have a delay of 30 seconds or 170 minutes)
- Automatic switchover to standby battery when AC fails
- Thermal and short circuit protection with auto reset
- Input and output status LED indicators
- AC fail supervision
- Battery presence and low battery supervision
- Ground Fault Detection, with diagnostics to indicate which circuit fault is on
- Latching LED's for NAC trouble annunciation and Diagnostic trouble LED's (latching can be disabled)

Power

- Not Battery Dependent
- Automatic switch over to standby batteries when AC fails
- Supports sealed lead acid or gel type batteries
- Fused battery protection
- Thermal and short circuit protection with auto reset
- Supports both 7AH or 12AH batteries in the same cabinet

POWERPATH™ Operating Modes (refer to Installation Manual):

Normal Mode: Provides constant 24 VDC output upon initiation by a voltage to input IN1 or IN2 or by a contact opening on DRY1 or DRY2. The unit returns to standby mode when the input is deactivated.

Wheelock Sync Mode: Provides signals for synchronization of patented Wheelock audible and strobe notification appliances. Audibles can also be silenced in this mode while the strobes continue to flash.

In>Out Sync Mode: Accepts a synchronization signal on the input to provide a coded output or synchronized output. This signal may come from a FACP, another POWERPATH or a Wheelock DSM synchronization module. Caution: Do not use strobes on coded output circuits.

True Input Follower Mode: Accepts a coded signal on the input to provide a coded output with the same timing as the input. The signal may come from a FACP, another POWERPATH or other coded source. Caution: Do not use strobes on coded output circuits.

Temporal Mode: Codes the output voltage in a code-3 temporal pattern to drive audible appliances such as horns, bells or chimes. Caution: Do not use strobes on coded output circuits.

Specifications and Ordering Information

Model Number	Order Code	Input Voltage/Current	Approvals		
			UL	CSFM	FM
PS-6	105530	6 amp, red enclosure	X	X	X
PS-6B	100257	6 amp, black enclosure	X	X	X
PS-8	105531	8 amp, red enclosure	X	X	X
PS-8B	105830	8 amp, black enclosure	X	X	X
PS-6EXP	105083	6 amp power supply with preinstalled expansion module	X	X	X
PS-8EXP	105084	8 amp power supply with preinstalled expansion module	X	X	X
PS-EXP	105534	4 class B or 2 class A expansion module	X	X	X
PS-EXP-RETRO	105527	Field upgrade kit for models prior to January 2010*	X	X	X

X= Approved
*= Pending
#=Contact Technical Support for additional inforamation on upgrade options

Input Circuit	Input Voltage and Current
Input voltage Range	8 to 33 VDC
Input Current @ 12 VDC	0.005 amps
Input Current @ 24 VDC	0.005 amps
Output Circuit	Output Voltage and Current
Four (4) Class B or	24 VDC @ up to 3 amps per curcuit
Two (2) Class A or	
One (1) Class A and Two (2) Class "B" or	
8 Class B or 4 Class A (optional PS-EXP module necessary)	
Continuous duty up to 3 Amps per circuit, up to 4 Amps maximum per panel	
Standby Current	0.129 Amps
Alarm Current	0.129 Amps
Primary PS-6 (120 VAC models)	105 to 130 VAC, 50/60 Hz @ 4.25 Amps
Primary PS-8 (120VAC models)	105 to 130 VAC 50/60 Hz @ 5.32 Amps
Primary PS-6E (240 VAC models)	210 to 260 VAC, 50/60 Hz @ 2.42 Amps
Primary PS-8E (240 VAC models)	210 to 260 VAC 50/60 Hz @ 3.22 Amps
Secondary Power Charging Capacity	32 Amp hours @ 0.750 Amps per hour
Enclosure can house up to two 12 AH batteries	
Aux Output	PS-8 up to 250 mA
CP Mode	PS-6 up to 75 mA
MP Mode	2.5A during non alarm

Model	Dimensions	Weight	Comments
PS-6/PS-6B	17"H x 13"W x 3.5"D	11.5lbs. (Ship) 9.4lbs (Unit)	Small profile
PS-8/PS-8B	17"H x 15"W x 5.5"D	17.7lbs (Ship) 15.6lbs (Unit)	Additional room for modules
PS-EXP	4.3"H x 3.7"W x 1"D	1lb. (Ship & Unit)	Plugs into main pcb on all models

rchitects and Engineers Specifications

The power supply shall be Wheelock POWERPATH™ Series PS-8, or equivalent. The unit shall be stand alone power supply intended or powering fire alarm notification appliances via its own Notification Appliance Circuit(s) (NAC). The unit shall be UL 864 Listed for power limited operation of outputs and comply with NFPA 70 (NEC), article 760.
The power supply shall support a full 8A of notification power even if the battery is in a degraded mode and only AC power is connected.
The power supply shall be activated by a standard Notification Appliance Circuit (NAC) from any Fire Alarm Control Panel (FACP) or a "Dry contact" opening. The units shall be 8 ampere, 24 VDC, regulated and filtered, supervised remote power supply/charger. It shall operate over the voltage range of 8 to 33 VDC or FWR. The primary application of the unit shall be able to expand fire alarm system capabilities for additional NAC circuits to support ADA requirements and to provide auxiliary power to support system accessories or functions. The power supply shall provide four Class "B", two Class "A", or two Class "B" and one Class "A" NAC circuit(s). Eight Class "B" or Four Class "A" circuits shall be available with an optional PS-EXP module. The PS-8 unit shall supply up to 240 mA of auxiliary power that is available during both non-alarm and alarm or auxiliary power of not less than 2.5A at 24 VDC during non-alarm. The power supply shall be capable of charging batteries of up to 33 ampere hours per NFPA 72 at maximum rate of 0.750 Amps per hour.
Input activation options shall be from not less than two NAC circuits or Dry Contact closures. These inputs shall have the capability of being directed to any combination of the four NAC circuit outputs. Each NAC circuit output shall be rated at 3 amperes for Class "B" applications or 3 amperes each for Class "A". The outputs shall be programmable to generate a steady or Temporal (Code 3) output and or a synchronized strobe or horn output. The power supply shall provide independent loop supervision for either Class "A" or Class "B" FACP-NAC circuits and shall have the capability to "steer" all alarm or trouble conditions to either incoming NAC circuit. The units shall have common trouble terminals. The power supply shall be powered from a 120 VAC source with a current consumption of xx amperes max. The unit shall incorporate short circuit protection with auto reset. The power supply shall incorporate a built in battery charger for lead acid or gel type batteries with automatic switchover to battery back up in the event of AC power failure. The charger shall incorporate fused protection for the batteries and have the ability to report low battery and/or no battery condition(s). Standby current for battery back up shall be 0.129 Amps max. The power supply shall have the ability to latch trouble LED's so the circuit in trouble can be identified. The cabinet dimensions shall be 17"H x 15"W x 5.5"D.

The power supply shall be Wheelock POWERPATH™ Series PS-6, or equivalent. The unit shall be stand alone power supply intended for powering fire alarm notification appliances via its own Notification Appliance Circuit(s) (NAC). The unit shall be UL 864 Listed for power limited operation of outputs and comply with NFPA 70 (NEC), article 760.
The power supply shall support a full 6A of notification power even if the battery is in a degraded mode and only AC power is connected.
The power supply shall be activated by a standard Notification Appliance Circuit (NAC) from any Fire Alarm Control Panel (FACP) or a "Dry contact" opening. The units shall be 6 ampere, 24 VDC, regulated and filtered, supervised remote power supply/charger. It shall operate over the voltage range of 8 to 33 VDC or FWR. The primary application of the unit shall be able to expand fire alarm system capabilities for additional NAC circuits to support ADA requirements and to provide auxiliary power to support system accessories or functions. The power supply shall provide four Class "B", two Class "A", or two Class "B" and one Class "A" NAC circuit(s). Eight Class "B" or Four Class "A" circuits shall be available with an optional PS-EXP module. The PS-6 unit shall supply up to 200 mA of auxiliary power that is available during both non-alarm and alarm or auxiliary power of not less than 2.5A at 24 VDC during non-alarm. The power supply shall be capable of charging batteries of up to 33 ampere hours per NFPA 72 at a maximum rate of 0.750 Amps per hour.
Input activation options shall be from not less than two NAC circuits or Dry Contact closures. These inputs shall have the capability of being directed to any combination of the four NAC circuit outputs. Each NAC circuit output shall be rated at 3 amperes for Class "B" applications or 3 amperes each for Class "A". The outputs shall be programmable to generate a steady or Temporal (Code 3) output and or a synchronized strobe or horn output. The power supply shall provide independent loop supervision for either Class "A" or Class "B" FACP NAC circuits and shall have the capability to "steer" all alarm or trouble conditions to either incoming NAC circuit. The units shall have common trouble terminals. The power supply shall be powered from a 120 VAC source with a current consumption of xx amperes max. The unit shall incorporate short circuit protection with auto reset. The power supply shall incorporate a built in battery charger for lead acid or gel type batteries with automatic switchover to battery back up in the event of AC power failure. The charger shall incorporate fused protection for the batteries and have the ability to report low battery and/or no battery condition(s). Standby current for battery back up shall be 0.130 Amps max. The power supply shall have the ability to latch trouble LED's so the circuit in trouble can be identified. The cabinet dimensions shall be 17"H x 13"W x 3.5"D.

⚠ WARNING: PLEASE READ THESE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS AND WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Wheelock Inc. standard terms and conditions.

NEMA Member

WE ENCOURAGE AND SUPPORT NICET CERTIFICATION
1 YEAR WARRANTY

S9100 PS-6 & 8 06/11

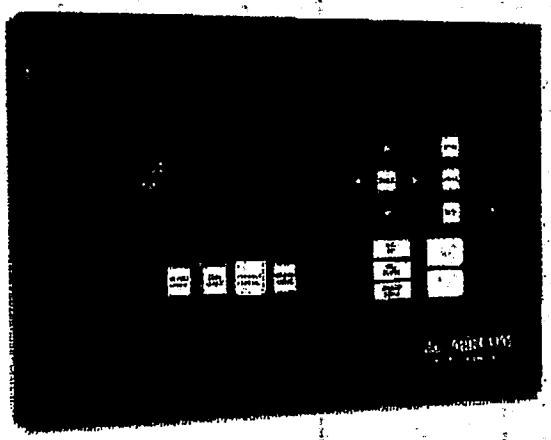
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COOPER Notification

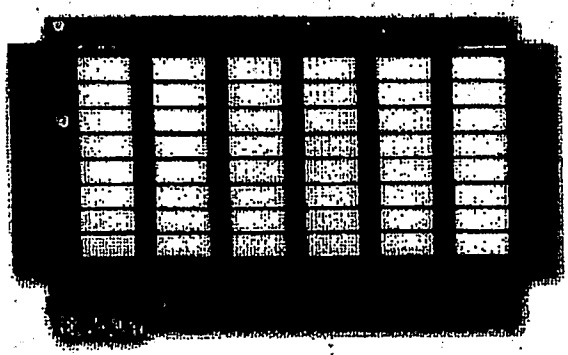
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FX-2000 SERIES PROGRAMMABLE MODULES

The FX-2000 Analog Fire Alarm Control Panel supports Programmable modules which can be connected either internally to the fire alarm panel or externally via the RAX-LCD Remote Shared Display. Connection to the RAX-LCD allows for unique configurations for a specific remote location.



RAX-LCD mounted in a BB-1001R enclosure



RAX-LCD Remote Shared Display

The RAX-LCD Remote Shared Display is a remote annunciator that provides the same functions as the main display on the fire alarm control panel, less 16 zone LEDs. It is equipped with a large 4 line x 20 character back-lit alphanumeric LCD display which uses a simple menu system complete with a directional keypad and switches for Enter, Menu, Cancel and Info. It also has 4 Alarm Queue switches and LEDs as well as common control switches and LEDs for Signal Silence, Fire Drill, System Reset, Lamp Test, General Alarm and Acknowledge. The RAX-LCD can be programmed to show different points than the main panel. In addition to being a remote annunciator, the RAX-LCD can also be used as a driver module for standard LED annunciation or reduced zone annunciation (different from the main panel annunciation), graphic drivers programmed different from the main annunciators, programmable switch modules with their unique configuration and fan damper control also with their unique configuration. Each time a different type of annunciation configuration is required or a different location is required an additional RAX-LCD will be needed. The RAX-LCD allows for the control switches to be disabled on a per function basis (via laptop configurator) for areas that do not require certain Common Control functions to be remotely located from the Fire Alarm Control Panel. The RAX-LCD occupies one display position in the BB-1000 or BB-5000 enclosures.

RAX-1048 Programmable Zone LED Annunciator Module

The RAX-1048 Programmable Zone LED Annunciator Module provides 48 programmable bi-coloured LEDs. The RAX-1048 is used if additional LED zone annunciation is required. The addressable points can be grouped together to light one LED, or they can be part of many groups and therefore may turn on many LEDs. The circuits can be selected as either Alarm to illuminate the red LED or for Supervisory to illuminate the amber LED. Any zone trouble condition will be displayed on the Shared Display. The RAX-1048 can be connected to the main panel or it can be connected to the RAX-LCD Remote Shared Display if a programmable remote LED annunciator is required. It takes up two frames when connected to either the main or remote shared display. The RAX-1048 is used in conjunction with the RAX-LCD when a different type of annunciation configuration or a different location is required. The RAX-1048 occupies one display position in the BB-1000 or BB-5000 enclosures.

S5434

7165-1477:111 (RAX-1048, IPS-2424 & FDX-005)
7120-1477:107 (RAX-LCD)

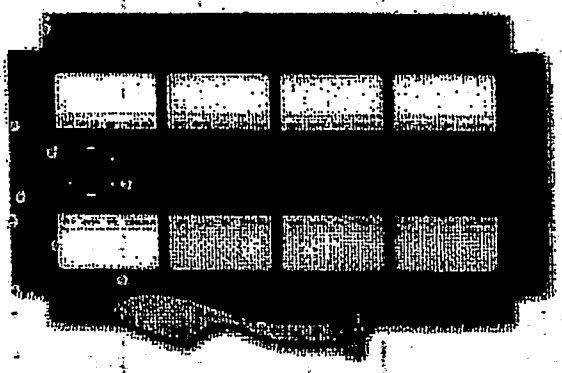
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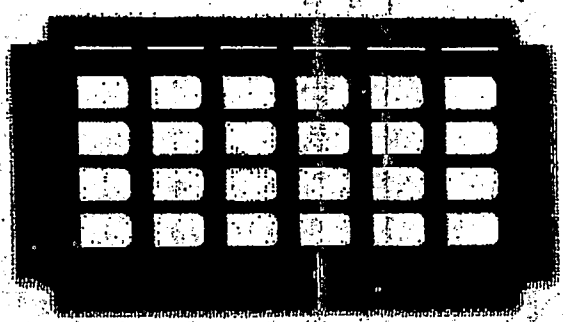
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FM APPROVED 3017996

CATALOG NUMBER 5912

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Mircom reserves the right to make changes at any time without notice in prices, colours, materials, components, equipment, specifications and models and also to discontinue models.





FDX-008 Fan Damper Module

The FDX-008 Fan Damper Module provides individually programmed circuits which can be used for fan or damper control. Each circuit has a slide-in label, a three position selector switch, green "run or open" LED and an amber "off or closed" LED. The three-position selector switch has a centre "auto" position, a left "off or close" position and a right "on or open" position. In the 'auto' position the fan or damper follows the fire alarm programming when an alarm occurs. When the switch is turned to the 'off' position the fan or damper is turned 'off or closed'. If the fan or damper is normally 'on or open' it will turn 'off or close' when the switch is moved to the 'off' position. When the switch is moved to the 'on' position the fan or damper is turned 'on or open'. If the fan or damper is normally 'off or closed' it will turn 'on or open' when the switch is moved to the 'on' position. The 'on', 'off' and the 'auto' positions are configurable to remote addressable output modules (MIX-M500CH) and can be configured for normally 'on or off' fans or normally 'open or closed' dampers. The LEDs can be controlled from the program or by proving switches through mini input modules (MIX-M501M). The FDX-008 can be connected to the main panel or it can be connected to the RAX-LCD Remote Shared Display when a different type of fan/damper configuration or a different location is required. The FDX-008 takes up one frame when connected to the main or remote shared display. The FDX-008 occupies one display position in the BB-1000 or BB-5000 enclosures.

IPS-2424 Programmable Input Switches Module

The IPS-2424 Programmable Input Switches Module, which provides 24 programmable switches complete with bi-coloured LEDs and slide-in labels, can be configured for ancillary functions such as zone by-pass or added common control functions. In a zone by-pass configuration, a group of addressable devices or hardwired circuits can be assigned to a programmable switch and when the switch is operated, those devices or zones are by-passed. The switches operate in a toggle operation for on and off. There are two LEDs for each switch; one for selection, the other is bi-coloured to indicate point status when the switch is returned to normal (unbypassed) position. The bi-coloured LED will flash red to indicate an alarm or it will flash amber to indicate that a supervisory alarm will be processed when the switch is returned to normal (unbypassed) position. The IPS-2424 can be connected to the main panel or it can be connected to the RAX-LCD Remote Shared Display if unique programmable input switches are required for a specific location. The IPS-2424 takes up two frames when connected to the main or remote shared display. The IPS-2424 occupies one display position in the BB-1000 or BB-5000 enclosures.

Ordering Information

Model	Description	Standby	Alarm
RAX-LCD	Remote Shared Display	100 mA	150 mA
RAX-1048	Programmable Zone LED Annunicator Module	15 mA	100 mA
IPS-2424	Programmable Input Switches Module	10 mA	144 mA
FDX-008	Fan Damper Module	10 mA	100 mA

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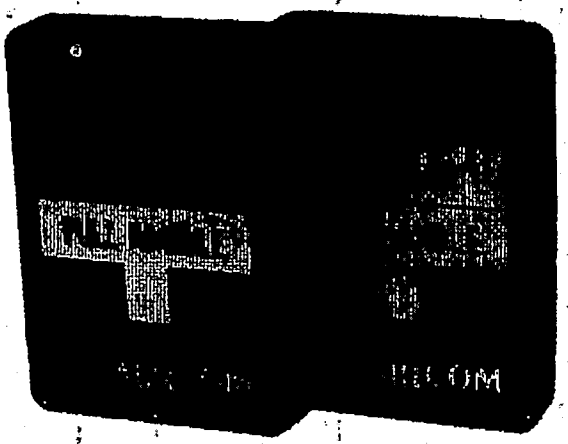
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CAT. 5912
Rev. 6

MIRCOM

INTELLIGENT ADDRESSABLE MANUAL STATIONS MS-700ADU SERIES



MS-701ADU
Intelligent Addressable
Single Action Manual Station

MS-710ADU
Intelligent Addressable
Dual Action Manual Station

Description

Mircom's MS-700ADU Series provide manual fire reporting. These high quality, die-cast metal Intelligent Fire Alarm Manual Stations are available in either single or dual action configurations with a permanently attached addressable module.

The MS-700ADU Series stations are available as single or dual-action devices with key resets and a permanently attached addressable module . The addressable manual station has a pair of rotary decimal switches which allows for two digit address setting. Pulling the handle initiates the operation of the addressable module.

All models are available with CAT-30 keys and mount on a standard single gang backbox, Mircom model BB-700 interior surface metal backbox, or BB-700WP weather proof backbox.

Features

- Single or Dual Action
- Key resettable
- Permanently Attached Intelligent Addressable Module
- High-gloss red enamel finish
- Plastic breakrod
- Meets ADA 5 lb. maximum manual-force
- Mounts on standard single gang box, Mircom's BB-700 surface metal backbox or BB-700WP weather proof backbox

Operation

The MS-701ADU Single Action Intelligent Manual Station is operated by pulling down the handle marked "PULL HANDLE" on the front of the station. The MS-710U Dual Action Intelligent Manual Station is operated by pushing the bar labelled "PUSH BAR" and then pulling down the handle marked "PULL HANDLE". The MS-700ADU Series Manual Stations are reset by opening the station with the key, placing the handle in the normal upright position and re-locking the station.

Specifications

The manual station shall be Mircom's MS-700ADU Series. Operating instructions shall be in raised English lettering and the unit shall be constructed of high quality die-cast metal and finished in red enamel paint to provide quick identification. Pulling the handle shall initiate immediate operation of the intelligent addressable module. All manual fire alarm stations shall be installed as per the specific requirements outlined in the UL codes, as well as all other applicable national or local codes. Final acceptance is subject to the local authority having jurisdiction.

S7005 S7005 7150-1477:128

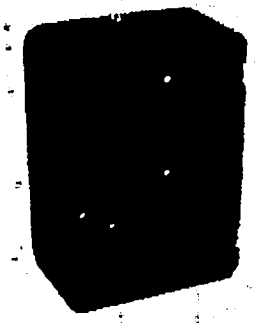
CATALOG NUMBER 5928

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Specifications

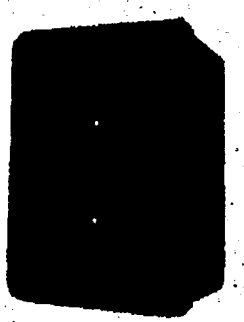
Switch Rating:	1 Amp @ 30 VDC 0.1 Amp @ 125 VAC
Manual Station Dimensions:	4.9" H x 3.5" W x 2.0" D
Color:	Red with raised white letters, white Manual bar with raised red letters.
Current Consumption:	Standby: 400 uA Alarm: 5.5 mA

Surface Mount Backboxes



BB-700 Surface Mount Backbox

Dimensions:
5" H x 3.6" W x 2.0" D

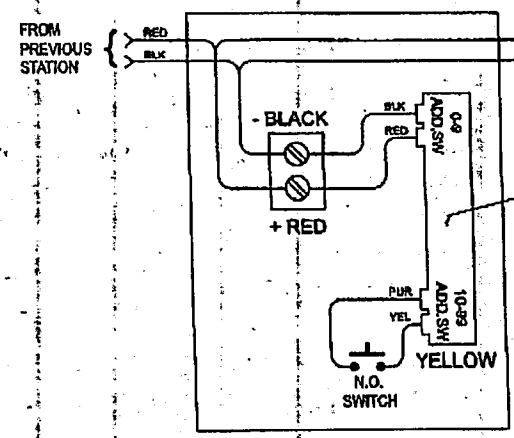


BB-700WP Weatherproof Surface Mount Backbox

Dimensions:
5" H x 3.6" W x 2.2" D

Typical Wiring Diagram

MS-701ADU and MS-710ADU



NOTES:

1. WIRE AS SHOWN SO THAT SUPERVISION OF CONNECTIONS IS MAINTAINED.
2. MOUNT STATION TO 4" SQUARE x 1 1/2" DEEP OUTLET BOX WITH PLASTER RING RAISED 1/2".
3. SWITCH RATING: ALL MODELS 1A @ 30VDC, 0.1A @ 125VAC
4. MAXIMUM WIRE SIZE: No. 12 AWG.
5. REFER TO FIRE ALARM CONTROL PANEL MANUAL FOR ADDRESSABLE MODULE SETTING.

Ordering Information

Model	Description
MS-701ADU	Intelligent Addressable Key Resettable Single Action Manual Station
MS-702ADU	Intelligent Addressable Key Resettable Dual Stage Single Action Manual Station
MS-710ADU	Intelligent Addressable Key Resettable Dual Action Manual Station
BB-700	Series 700 Interior Surface Mount Backbox, Red Finish
BB-700WP	Series 700 Weatherproof Surface Mount Backbox, Red Finish

Add suffix "NY" for New York Versions.

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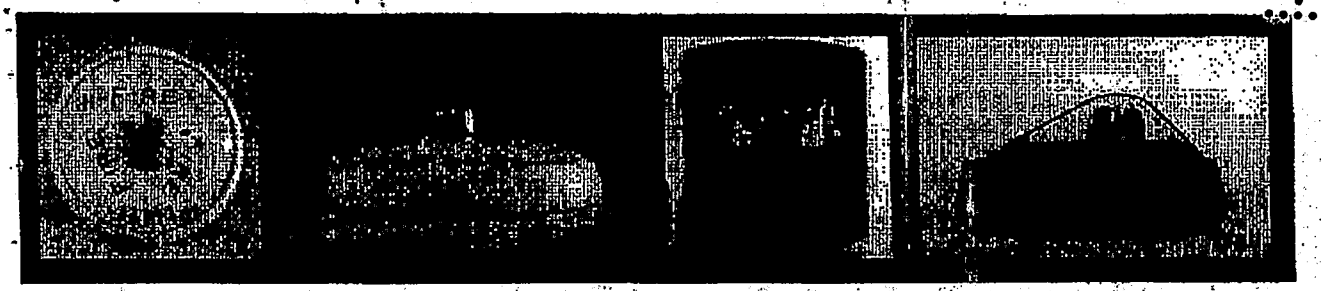
ISO 9001:2000 REGISTERED

CAT. 5928
Rev. 2

COOPER Notification

EXCEDER™

Strobe, Horn Strobe, and Horn Notification Appliances



Description:

The Wheelock® Exceder™ Series of notification appliances feature a sleek modern design that will please building owners with reduced total cost of ownership. Installers will benefit from its comprehensive feature list, including the most candela options in one appliance, low current draw, no tools needed for setting changes, voltage test points, 12/24 VDC operation, universal mounting base and multiple mounting options for both new and retrofit construction.

The Wheelock® Exceder™ Series incorporates high reliability and high efficiency optics to minimize current draw allowing for a greater number of appliances on the notification appliance circuit. All strobe models feature an industry first of 8 candela settings on a single appliance. Models with an audible feature 3 sound settings (90, 95, 99 dB). All switches to change settings, can be set without the use of a tool and are located behind the appliance to prevent tampering. Wall models feature voltage test points to take readings with a voltage meter for troubleshooting and AHJ inspection.

The Wheelock® Exceder™ Series of wall and ceiling notification appliances feature a Universal Mounting Base (UMB) designed to simplify the installation and testing of horns, strobes, and combination horn strobes. The separate universal mounting base can be pre-wired to allow full testing of circuit wiring before the appliance is installed and the surface is finished. It comes complete with a Contact Cover for protection against dirt, dust, paint and damage to the contacts. The Contact Cover also acts as a shunting device to allow pre-wire testing for common wiring issues. The Contact Cover is polarized to prevent it from being installed incorrectly and prevents the appliance from being installed while it is on the UMB. When the Contact Cover is removed the circuit will show an open until the appliance is installed. The UMB allows for consistent installation and easy replacement of appliances if required. Wall models provide an optional locking screw for extra secure installation, while the ceiling models provide a captivated screw to prevent the screw from falling during installation.

Compliance
- UL 1971, UL 464, ULC, CSFM, FM
- ADA/NFPA/ANSI/OSHA
- RoHS

- Save up to 43%* installation time
- Up to 9 models in 1 footprint**
- Save up to 44%* [illegible]

- **Sleek Modern Aesthetics**
- **Finger Slide Switches**
- **Voltage Test Points**
- **Multiple Voltages** (12/24 VDC)
- **3 Audible Settings**
  90, 95, 99 dB
- **8 Candela Settings*****
  Wall - 15/1575/30/75/95/110/135/185
  Ceiling - 15/30/60/75/95/115/150/177
- **Universal Mounting Base*****
  Ceiling and Wall
  Mounts to 6 Backbox Types
- **Environmentally Friendly**
  Low Current Draw

Compatibility and Synchronization
- Synchronize [illegible] Sync Protocol
- [illegible]
- Strobe products [illegible]

* Compared to competitive models
** Compared to previous models
*** Patented

NOTE: All CAUTIONS and WARNINGS [illegible]

General Notes

[illegible]

Low Current Draw = Fewer Power Supplies

Strobe Ratings per UL Standard 1971

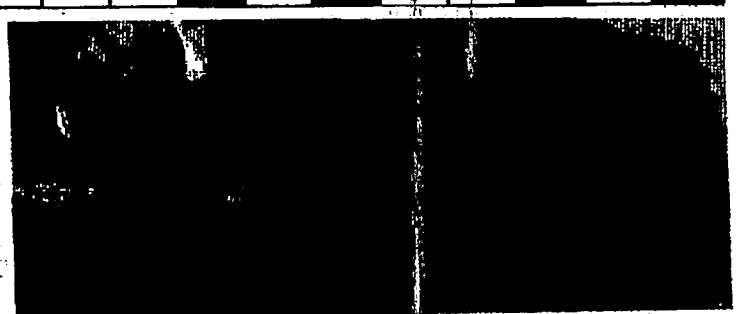
		[illegible]													
		24 VDC / 24 FWR												12 VDC	
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
ST	8.0-33.0	0.057	0.070	0.085		0.135	0.163	0.182		0.205			0.253	0.110	0.140
STC	8.0-33.0	0.061		0.085	0.103	0.135	0.163		0.182		0.205	0.253		0.110	

Horn Strobe Ratings per UL 1971 & Anechoic at 24 VDC

		[illegible]													
		24 VDC												12 VDC	
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.082	0.095	0.102		0.148	0.176	0.197		0.242			0.282	0.125	0.159
HSC	8.0-33.0	0.082		0.102	0.141	0.148	0.176		0.197		0.242	0.282		0.125	
		[illegible]													
		24 VDC												12 VDC	
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.073	0.083	0.087		0.139	0.163	0.186		0.230			0.272	0.122	0.153
HSC	8.0-33.0	0.073		0.087	0.128	0.139	0.163		0.186		0.230	0.272		0.122	
		[illegible]													
		24 VDC												12 VDC	
Model	Regulated Voltage Range VDC	15	15/75	30	60	75	95	110	115	135	150	177	185	15	15/75
HS	8.0-33.0	0.065	0.075	0.084		0.136	0.157	0.184		0.226			0.267	0.120	0.148
HSC	8.0-33.0	0.065		0.084	0.120	0.136	0.157		0.184		0.226	0.267		0.120	

Horn Ratings per UL Anechoic

Model	Regulated Voltage Range VDC	99 dB	95 dB	90 dB
HN	16-33.0	0.064	0.044	0.022
HNC	16-33.0	0.084	0.044	0.022
HN	8.0-17.5	0.047	0.026	0.017
HNC	8.0-17.5	0.047	0.026	0.017



[illegible]

Specification & Ordering Information

Easy to remember model codes

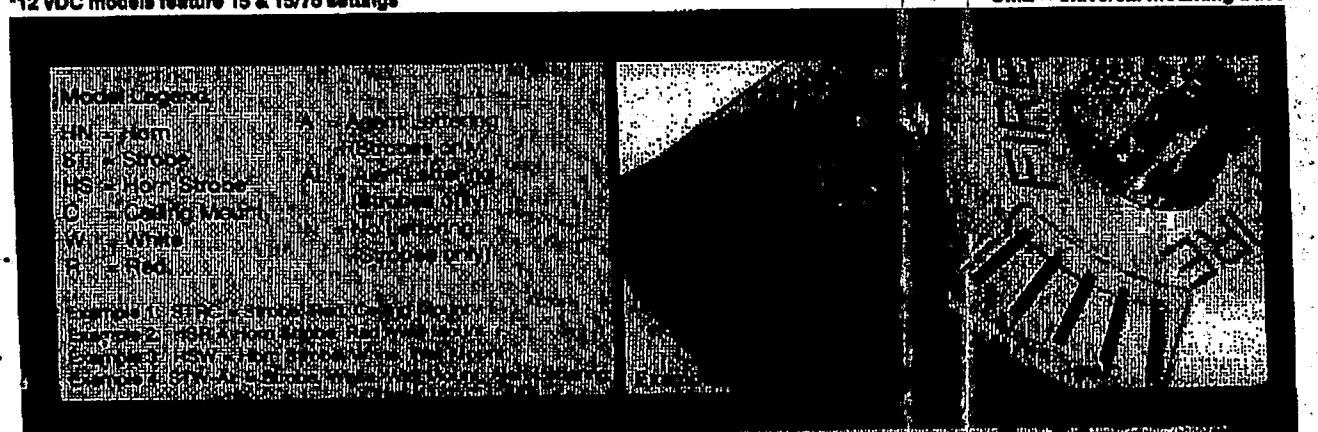
8 candelas on 1 device

1 gang, 2 gang, 4" sq, 3.5" octal & 4" octal boxes

Model	Strobe Candela	Sync w/ DSM or Wheelock Power Supplies	12/24 VDC*	Mounting Options
HSR	15/1575/30/75/95/110/135/185	X	X	UMB**
HSW	15/1575/30/75/95/110/135/185	X	X	UMB**
HSRC	15/30/60/75/95/115/150/177	X	X	UMB**
HSWC	15/30/60/75/95/115/150/177	X	X	UMB**
STR	15/1575/30/75/95/110/135/185	X	X	UMB**
STW	15/1575/30/75/95/110/135/185	X	X	UMB**
STRC	15/30/60/75/95/115/150/177	X	X	UMB**
STWC	15/30/60/75/95/115/150/177	X	X	UMB**
HNR		X	X	UMB**
HNW		X	X	UMB**
HNRC		X	X	UMB**
HNWC		X	X	UMB**

*12 VDC models feature 15 & 15/75 settings

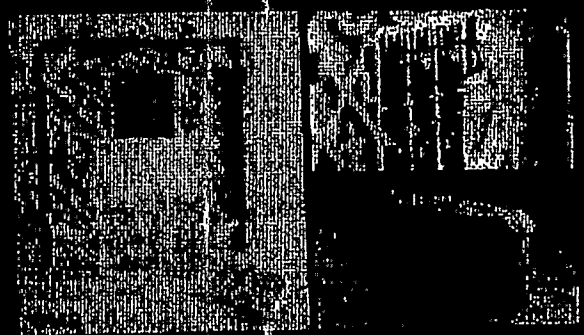
**UMB = Universal Mounting Base





Voltage test points for quick troubleshooting and easy spot checking (wall models only)

8 candela settings



Common base for wall and ceiling with 5 mounting options

NOTE: Due to continuous product improvement, specifications and ordering information are subject to change without notice. All products manufactured to conform to ANSI/UL 1638 standard.

Architects and Engineers Specifications

he notification appliances shall be Wheelock® Exceder™ Series HS Audible Strobe appliances, Series ST Visual Strobe appliances nd Series HN Audible appliances or approved equals. The Series HS and ST Strobes shall be listed for UL Standard 1971 (Emergency evices for the Hearing-Impaired) for Indoor Fire Protection Service. The Series HS and HN Audibles shall be UL Listed under Standard 64 (Fire Protective Signaling). All Series shall meet the requirements of FCC Part 15 Class B. All inputs shall be compatible with tandard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP) with the ability to operate from 8 to 33 VDC. ıdoor wall models shall incorporate voltage test points for easy voltage inspection.

he Series HS Audible Strobe and ST Strobe appliances shall produce a flash rate of one (1) flash per second over the Regulated oltage Range and shall incorporate a Xenon flashtube enclosed in a rugged Lexan® lens. The Series shall be of low current design. Where Multi-Candela appliances are specified, the strobe intensity shall have 8 field selectable settings at 15, 15/75, 30, 75, 95, 110, 35, 185 candela for wall mount and 15, 30, 60, 75, 95, 115, 150, 177 candela for ceiling mount. The selector switch for selecting he candela shall be tamper resistant. The 15/75 candela strobe shall be specified when 15 candela UL Standard 1971 Listing with '5 candela on-axis is required (e.g. ADA compliance). Appliances with candela settings shall show the candela selection in a visible ocation at all times when installed.

The audible shall have a minimum of three (3) field selectable settings for dBA levels and shall have a choice of continuous or temporal Code 3) audible outputs.

The Series HS Audible Strobe, ST Strobe and Series HN Audible shall incorporate a patented Universal Mounting Base that shall allow mounting to a single-gang, double-gang, 4-inch square, 3.5-inch octal, 4-inch octal or 100mm European type back boxes. Two wire appliance wiring shall be capable of directly connecting to the mounting base. Continuity checking of the entire NAC circuit prior to attaching any notification appliances shall be allowed. Product shall come with Contact Cover to protect contact springs. Removal of an appliance shall result in a supervision fault condition by the Fire Alarm Control Panel (FACP). The mounting base shall be the same base among all horn, strobe, horn strobe, wall and ceiling models. All notification appliances shall be backwards compatible.

The Series HS and ST wall models shall have a low profile measuring 5.24" H x 4.58" W x 2.19" D. Series HN wall shall measure 5.24" H x 4.58" W x 1.6" D. The Series HSC and STC shall been round and have a low profile with a diameter of 6.68" x 2.63" D. Series HNC ceiling shall have a diameter of 6.68" x 1.50" D.

When synchronization is required, the appliance shall be compatible with Wheelock®'s DSM Sync Modules, Wheelock® Power Supplies or other manufacturer's panels with built-in Wheelock® Patented Sync Protocol. The strobes shall not drift out of synchronization at any time during operation. If the sync protocol fails to operate, the strobe shall revert to a non-synchronized flash-rate and still maintain (1) flash per second over its Regulated Voltage Range. The appliance shall also be designed so that the audible signal may be silenced while maintaining strobe activation when used with Wheelock® synchronization protocol.

Wall Appliances – UL Standard 1971, UL Standard 464, California State Fire Marshal (CSFM), ULC, FM, RoHS
Ceiling Appliances – UL Standard 1971, UL Standard 464, California State Fire Marshal (CSFM), ULC, FM, RoHS

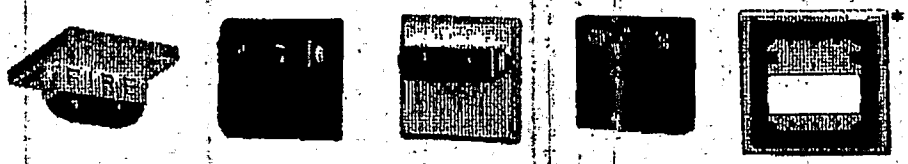
NEMA

WE ENCOURAGE AND SUPPORT NICET CERTIFICATION
3 YEAR WARRANTY

Exceder - Spec Sheet 5/13

COOPER Notification

Weatherproof Appliances - Series AH Audibles, AS Audible Strobes, MT Multitone Strobes, RSS Strobes and ET70 Speaker Strobes and Weatherproof Mounting Accessories



Description:

Designed for life safety, performance and reliability, Cooper Notification's Wheelock cost effective weatherpoof notification appliances include:

Weatherproof Appliances	Series
Strobes	RSSWP
Horn Strobes	ASWP
Horns	AH-24WP, AH-12WP
Multitone Horn Strobes	MTWP
Multitone Horns	MT
Speaker Strobes	ET70WP
Speakers	ET-1010

All strobe models are UL dual listed - meeting both UL1638 and UL1971 requirements. As dual listed appliances, these weatherproof strobes, horn strobes and speaker strobes are listed for outdoor applications under UL 1638 as well as under UL 1971, the Standard for Safety Signaling Devices for Hearing Impaired. With an extended temperature range of –31°F to 150°F (-35°C to 66°C), Wheelock weatherproof appliances meet or exceed UL outdoor test requirements for rain, humidity and corrosion resistance while providing multiple strobe intensity options, including the highest strobe ratings available for area coverage per NFPA 72 strobe spacing tables (up to 185 candela for wall mounting and 177 candela for ceiling mounting).

To enable weatherproof mounting, Cooper Notification provides the industry's widest choice of mounting options for surface or unique semi-flush installation. Models are available for surface mounting to Wheelock weatherproof backboxes on walls or ceilings. The optional WP-KIT allows the weatherproof backboxes (IOB, WPBB or WPSBB) to be mounted to a recessed electrical box for concealed conduit installation. For semi-flush installation, the WPA* and WFPA* kits allow a customer to mount the weatherproof appliances to a recessed electrical box without the need for an external weatherproof backbox. See the Backboxes, Plates and Gaskets Table on page three of this document for a summarization of these mounting options and the required accessories.

All models may be synchronized using the Wheelock DSM Sync Modules, Wheelock Power Supplies or other manufacturers panels incorporating the Wheelock Patented Sync Protocol. The horn output of horn strobes can be independently controlled on 2-wire circuits using the Wheelock patented sync protocol. MTWP horn strobe models are 4-wire appliances; the strobes can be synchronized while the audible can be connected to a coded fire alarm system or can be set to produce any of eight selectable tones.

Features:

- Approvals include: UL Standards 1971, 1638, 464 and 1480 California State Fire Marshal (CSFM), New York City (MEA), Factory Mutual (FM), Chicago (BFP) and ULC . See agency approvals by model number on page two of this document
- Compliance with the following requirements: NFPA, UFC, ANSI 117.1, OSHA Part 29, 1910.165, ADA
- Weatherproof with extended temperature range of –40°F to 150°F (-40°C to 66°C)*
- Dual Listed strobe models (UL 1638 and UL 1971)
- Industry's highest strobe candela options
- Synchronize using the Wheelock Sync Modules or panels with built-in Wheelock Patented Sync Protocol
- Models with field selectable tone, dBA and candela settings
- Wall or ceiling mounting options
- Surface or semi-flush mounting
- IN/OUT wiring termination accepting two #12-18 AWG wires at each terminal

The series RSSWP, ASWP, AH-24WP, MTWP-2475W, and MT-12/24 have UL / ULC approval down to -40°F. The ET-1010 and ET70WP have UL approval down to -40°F. The AH-12WP has UL approval down to -31°F.

E5948
S5361
S2652

151-92-E

7125-0785:131 (ASWP)
7125-0785:146 (ET70WP)
7125-0785:156 (MTWP)
7300-0785:154 (RSSWP)

ITE: All CAUTIONS and WARNINGS are identified by the symbol ⚠. All warnings are printed in bold capital letters.

WARNING: PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR PLYING THIS PRODUCT. VISIT WWW.COOPERNOTIFICATION.COM OR CONTACT COOPER WHEELOCK FOR THE CURRENT INSTALLATION INSTRUCTIONS. ILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS OR WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR ERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU D/OR OTHERS.

ieneral Notes:

Strobes are designed to flash at 1 flash per second minimum over their UL Listed Regulated Voltage Range.
All candela ratings represent minimum effective Strobe intensity based on UL Standards 1971 and 1638 as indicated in candela ratings table.

all Mount


RSSWP


MTWP

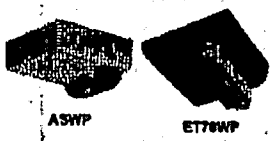

ASWP


ET70WP

Ceiling Mount



RSSWP MTWP


ASWP ET70WP

Wall or Ceiling Mount


MT AH


ET-1010

Strobe		Order Code
SSWP-2475W-FR	Red	9013
SSWP-2475W-FW	White	3034
SSWP-24MCWH-FR	Red	5161
SSWP-24MCWH-FW	White	5165
udible Strobe		
SWP-2475W-FR	Red	9012
SWP-24MCWH-FR	Red	5137
SWP-24MCWH-FW	White	5140
fulti-tone Strobe		
TWP-2475W-FR	Red	8420
TWP-2475W-FW	White	3112
TWP-24MCWH-FR	Red	5132
TWP-24MCWH-FW	White	5134
Speaker Strobe		
T70WP-2475W-FR	Red	9077
T70WP-2475W-FW	White	3179
T70WP-24185W-FR	Red	4885
T70WP-24185W-FW	White	4891
T70WP-24135W-FR	Red	4872
T70WP-24135W-FW	White	4875

Strobe		Order Code
RSSWP-2475C-FR	Red	4338
RSSWP-2475C-FW	White	4446
RSSWP-24MCCH-FR	Red	5167
RSSWP-24MCCH-FW	White	5187
Audible Strobe		
ASWP-2475C-FR	Red	4251
ASWP-2475C-FW	White	4502
ASWP-24MCCH-FR	Red	5149
ASWP-24MCCH-FW	White	5157
Multi-tone Strobe		
MTWP-2475C-FR	Red	4457
MTWP-2475C-FW	White	4478
MTWP-24MCCH-FR	Red	5102
MTWP-24MCCH-FW	White	5122
Speaker Strobe		
ET70WP-2475C-FR	Red	4452
ET70WP-2475C-FW	White	4454
ET70WP-24177C-FR	Red	4845
ET70WP-24177C-FW	White	4859
ET70WP-24115C-FR	Red	4550
ET70WP-24115C-FW	White	4732

Audible		Order Code
AH-24WP-R	Red	7416
AH-12WP-R	Red	7415
Horn		
MT-12/24-R	Red	5023
Speaker		
ET-1010-R	Red	3135
ET-1010-W	White	3137

UL Max. Current	AH	
	24 VDC	12 VDC
High (99) dBA	0.080	0.192
Med (95) dBA	0.043	0.108
Low (90) dBA	0.021	0.058

UL Reverberant dBA @ 10 Feet							
Watts	1/8	1/4	1/2	1	2	4	8
ET-1010	77	80	83	86	87	92	94
ET70WP	78	81	84	87	90	93	95

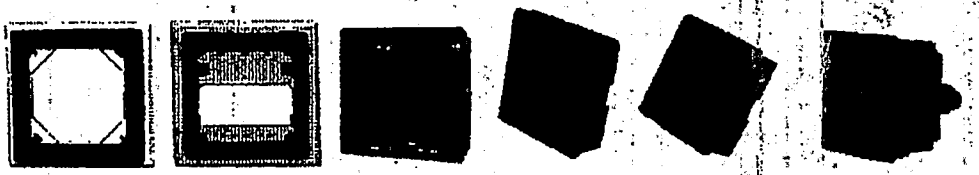
	Candela Ratings					
Series	UL 1971	UL 1638 @ 77°F	UL 1638 @ -40°F	RSS, ET70WP and MTWP UL Max Current (Strobe Only)	ASWP		
					High	Med	Low
2475	30**	180	115	0.138	0.168	0.155	0.150
MCWH	135	135	56	0.300	0.355	0.340	0.335
	185	185	77	0.420	0.480	0.465	0.460
MCCH	115	115	47	0.300	0.355	0.340	0.335
	177	177	73	0.420	0.480	0.465	0.460
24185	185	185	77	0.420			
24177	177	177	73	0.420			

**Wall mount rating only

UL Max. Current (Audible)	MTWP/MT 24 VDC		MT 12 VDC	
dBA	HI	STD	HI	STD
Horn	0.108	0.044	0.177	0.034
Bell	0.053	0.024	0.095	0.020
March Time	0.104	0.038	0.142	0.034
Code 3 Horn	0.091	0.035	0.142	0.034
Code 3 Tone	0.075	0.035	0.105	0.021
Slow Whoop	0.098	0.037	0.142	0.035
Siren	0.104	0.036	0.152	0.030
HI/Lo	0.057	0.025	0.114	0.026

Model Number	Agency Approvals				
Strobe	**UL**	**MEA**	**CSFM**	**FM**	**BFP**
RSSWP-2475	X	X	X	X	-
RSSWP-24MCWH	X	-	X	-	-
RSSWP-24MCCH	X	-	X	-	-
Audible Strobe					
ASWP-2475	X	X	X	X	X
ASWP-MCWH	X	-	X	-	-
ASWP-MCCH	X	-	X	-	-
Multitone Strobe					
MTWP-2475	X	X	X	X	-
MTWP-MCWH	X	-	X	-	-
MTWP-MCCH	X	-	X	-	-
Horns/Audibles					
AH-24WP	X	X	X	X	X
AH-12WP	X	X	X	X	X
MT-12/24	X	X	X	X	X
Speaker Strobe					
ET70WP-2475	X	-	X	X	-
ET70WP-185	X	-	X	X	-
ET70WP-177	X	-	X	X	-
ET70WP-115	X	-	X	X	-
ET70WP-135	X	-	X	X	-

Mounting Accessories



WFP WFPA IOB WPSBB WPBB WBB

Gasket Kit		Order Code
WP-KIT		4486
Flush Plates		
WFPA-R	Red	4698
WFPA-W	White	4701
WFP-R	Red	4696
WFP-W	White	4697
Backboxes		
IOB-R*	Red	5046
IOB-W*	White	5047
WPSBB-R*	Red	9751
WPSBB-W*	White	3033
WPBB-R*	Red	9014
WPBB-W*	White	4692
WBB-R	Red	2959
WBB-W	White	2960

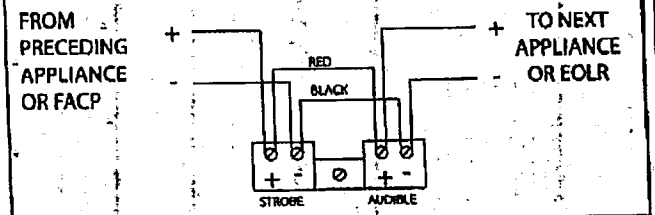
Mounting Options:

	Backboxes, Plates, Gasket Kits		
	Surface Mount		Flush Mount
	Exposed Conduit	Concealed Conduit	
RSSWP Strobes	WPSBB	WPSBB + WP-KIT	WFP
ET70WP Speaker Strobes	IOB	IOB + WP-KIT	WFP
ASWP Horn Strobes	WPBB	WPBB + WP-KIT	WFPA
AHWP Horns	WBB		WFP
ET-1010 Speakers	WBB		WFP
MTWP Multitone Horn Strobes	IOB	IOB + WP-KIT	WFP
Multitone Horn	IOB	IOB + WP-KIT	WFP

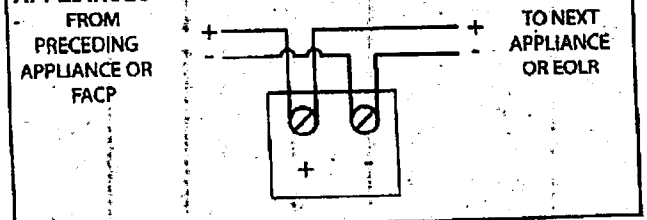
*IOB, WPSBB and WPBB models include weep holes and plug in the event that moisture may have entered the appliance

Wiring Diagrams

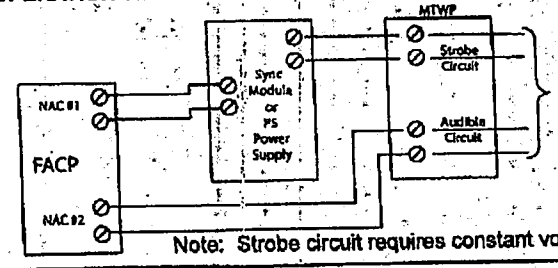
SERIES MTWP AUDIBLE APPLIANCE AND STROBE OPERATE IN UNISON. RED AND BLACK SHUNT-WIRES ARE SUPPLIED.



SERIES RSSWP, ASWP, AHWP, MTWP AND MT-12/24 APPLIANCES

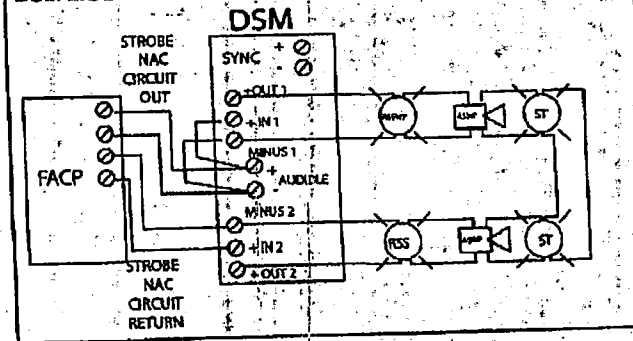


SERIES MTWP APPLIANCES SYNCHRONIZED STROBE OPERATION WITH CODED FACP



Note: Strobe circuit requires constant voltage.

SERIES RSSWP/ASWP APPLIANCES SYNCHRONIZED W/ DSM MODULE SINGLE CLASS "A" NAC CIRCUIT



Note: Models are available in Red or White. Contact Customer Service for Order Code and Delivery.
#Refer to Data Sheet S7000 for Mounting Options

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Cooper Wheelock Inc. dba Cooper Notification standard terms and conditions.

RCHITECTS AND ENGINEERS SPECIFICATIONS

eneral
Veatherproof notification appliances shall be UL listed for outdoor use. Weatherproof Strobe appliances shall be listed under UL Standard 38 (Standard for Visual Signaling Appliances) for Indoor/Outdoor use and UL Standard 1971 (Standard for Safety Signaling Devices r Hearing Impaired). The appliances shall be available for optional wall mounting or ceiling mounting to weatherproof backboxes using ther exposed conduit or concealed conduit, or semi-flush mounting to a recessed electrical box in walls or ceilings using Wheelock ounting accessories.

/eatherproof Strobes
Veatherproof Strobe appliances shall produce a minimum flash rate of 60 flashes per minute over the UL Regulated Voltage Range f 16 to 33 VDC and shall incorporate a Xenon flashtube. The weatherproof strobes shall be available with UL 1971 candela ratings p to 185 cd for wall mounting and 177 cd for ceiling mounting. UL 1638 candela ratings up to 180 cd at 77°F shall be available. The trobes shall operate over an extended temperature range of –40°F to 150°F (-40°C to 66°C) and be listed for maximum humidity of 5% RH. Strobe inputs shall be polarized for compatibility with standard reverse polarity supervision of circuit wiring by a Fire Alarm ontrol Panel (FACP).

Veatherproof Audibles and Audible/Strobe Combinations Weatherproof horns and multitone audibles shall be listed for Indoor/Outdoor se under UL Standard 464. The horns shall be able to produce a continuous output or a temporal code-3 output that can be synchronized. he horns shall have at least 3 sound level settings. Horn/Strobe combinations shall be able to be synchronized on a single NAC.

Aultitone audibles shall be able to produce 8 distinct tones selectable by dip switch and shall have at least 2 sound level settings. Multitone udible/Strobe combinations shall have independent inputs for the audible and strobe. The strobes shall be able to be synchronized. he audibles shall be able to be coded when operated on a separate NAC.

Veatherproof Speakers and Speaker/Strobes
Veatherproof speakers and speaker/strobes shall be listed for Indoor/Outdoor use under UL Standard 1480. All speakers shall provide ield selectable taps for 1/8W to 8W operation for either 25 VRMS or 70 VRMS audio systems and shall incorporate a sealed back onstruction for extra protection and improved audibility. Speakers without strobes shall be Wheelock Series ET-1010. They shall be isted to produce up to 94 dBA and shall incorporate a vandal resistant grille design. Speaker with strobes shall be Wheelock Series ET70WP. They shall be available for surface or semi-flush mounting to walls or ceilings and shall be listed to produce up to 93 dBA.

Synchronization Modules
When synchronization of strobes or temporal code-3 audibles is required, the appliances shall be compatible with the Wheelock Series DSM Sync Modules, Wheelock Power Supplies or other manufacturers panels with built-in Wheelock Patented Sync Protocol. The strobes and audibles shall not drift out of synchronization at any time during operation.

Series ASWP audibles and strobes shall be able to be synchronized on a 2-wire circuit with the ability to silence the audible if required. The strobes on Series MT multitone audible/strobe appliances shall be able to be synchronized and shall be able to be operated on a separate circuit from the audibles while the audible circuit is connected to a coded or continuous NAC.

Weatherproof Mounting Accessories
Weatherproof mounting options shall include surface mounting or semi-flush mounting to walls or ceilings. Surface mounted appliances shall mount to Wheelock IOB, WBB, WPBB or WPSBB weatherproof backboxes using either exposed conduit or concealed conduit. For concealed conduit the weatherproof backbox shall be mounted to a recessed electrical box with Wheelock's WP-KIT to provide a weatherproof seal for the electrical box. Semi-flush mounted appliances shall mount to a recessed electrical box using Wheelock WFP or WFPA flush plates to provide a weatherproof seal between the electrical box and the appliance.

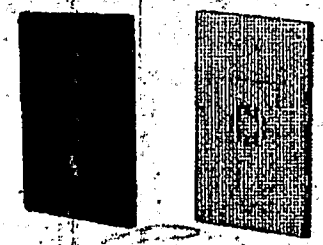
NEMA Member

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3 YEAR WARRANTY

S9004 WP 06/11

COOPER Notification

Series MIZ Mini Horn Appliances



SERIES MIZ

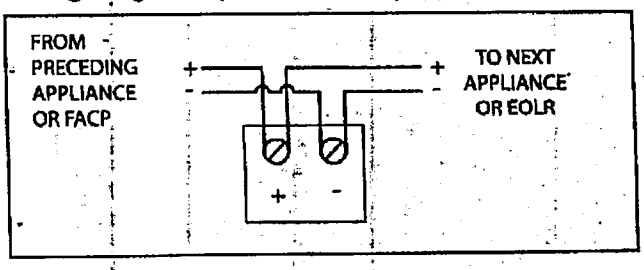
Description:

Wheelock Series MIZ piezoelectric Mini Horns are compact electronic alarm appliances that are listed under UL Standard 464 for Audible Appliances in Public Mode Fire Protection Systems. The Series MIZ-24S models provide a field selectable Continuous or Code 3 horn tone when connected directly to a fire alarm control panel. They can also provide a synchronized code 3 horn tone using the Wheelock DSM Sync Modules or Wheelock Power Supplies. The series MIZ appliances are attractive, offer high sound output along with low current draw and are ideal for alarm signaling in individual rooms, apartments, hotels, motels and offices. Color choices of red or off-white will blend with any décor.

Features:

- Approvals include: UL Standard 464, California State Fire Marshal (CSFM), New York City (MEA), and Factory Mutual (FM)
- Field selectable settings for Temporal (Code 3) or Continuous Horn
- Synchronized code 3 horn when used with Wheelock Sync Module
- Designed to meet or exceed NFPA/ANSI standards
- Convenient mounting to any standard single-gang box
- Beauty plugs to cover mounting screws
- No additional trimplate required for flush mounting
- Fast installation with In/Out screw terminals using #12 to #18 AWG
- High sound output with low current draw
- Available in red or off-white color

Wiring Diagrams (for all models)



Applications:

- Individual Rooms
- Apartments
- Hotels
- Motels
- Offices

Specifications and Ordering Information

Model	Order Code	Description	Mounting Options**	Agency Approvals			
				UL	MEA	CSFM	FM
MIZ-24S-R	8485	24 Volt, Red	B	X	X	X	X
MIZ-24S-W	8484	24 Volt, White	B	X	X	X	X

**Refer to Data Sheet S7000 for Mounting Options.

S5391 151-92-E 7125-0785:181

General Notes:

- **Mini Horn models are Listed for indoor use with a temperature range of 32° F to 120° F (0° C to 49° C) and maximum humidity of 93% RH ±2%.**
- **Rated input voltage (either filtered DC or unfiltered full-wave-rectified FWR): 16-33 VDC (for 24 VDC MIZ-24S models)**

Architects and Engineers Specifications

The notification appliance shall be a Wheelock MIZ-24S audible appliance or approved equal. The Notification Appliance shall be electronic and shall have field selectable settings for Temporal (Code 3) or continuous horn and support coded systems operation. The anechoic sound pressure measurement on Temporal (Code 3) setting shall be 87 dBA minimum at 24VDC. The anechoic sound pressure measurement on Continuous Horn setting shall be 87 dBA minimum at 24 VDC. Operating voltages shall be 24 VDC using filtered power or unfiltered power supply (full-wave-rectified). All models shall have provision for standard reverse polarity type supervision and IN/OUT wiring using terminals that accept #12 to #18 AWG wiring. The appliances shall be mounted indoors and mount on standard single-gang electrical backboxes requiring no additional trimplates or adapters.

Table 1: UL Listed Models and Ranges

Model	Regulated UL Voltage	Average RMS Current* (AMPS)	Reverberant dBA Per UL 464 @ 10 ft		Anechoic dBA @ 10 ft		Mounting Options
			Continuous	Code 3	Continuous	Code 3	
			dBA	dBA	dBA	dBA	
MIZ-24S	24 VDC	0.025	83.2	78.8	87.9	87.9	B
	UL max*	0.026	85.8	81.3	90.6	89.7	B

* RMS current ratings are per UL average RMS method. UL max current rating is the maximum RMS current within the listed voltage range (16-33v for 24v units). For strobes the UL max current is usually at the minimum listed voltage (16v for 24v units). For audibles the max current is usually at the maximum listed voltage (33v for 24v units). For unfiltered FWR ratings, see installation instructions.

NOTE: All CAUTIONS and WARNINGS are identified by the symbol. All warnings are printed in bold capital letters.

⚠ WARNING: PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS OR WARNINGS COULD RESULT IN IMPROPER APPLICATION,INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

⚠ WARNING: CONTACT WHEELOCK FOR THE CURRENT "INSTALLATION INSTRUCTIONS" (P84408) AND "GENERAL INFORMATION" SHEET (P82380) ON THESE PRODUCTS. THESE DOCUMENTS UNDERGO PERIODIC CHANGES. IT IS IMPORTANT THAT YOU HAVE CURRENT INFORMATION ON THESE PRODUCTS. THESE MATERIALS CONTAIN IMPORTANT INFORMATION THAT SHOULD BE READ PRIOR TO SPECIFYING OR INSTALLING THESE PRODUCTS, INCLUDING:

- **TOTAL CURRENT REQUIRED BY ALL APPLIANCES CONNECTED TO SYSTEM SECONDARY POWER SOURCES.**
- **FUSE RATINGS ON NOTIFICATION APPLIANCE CIRCUITS TO HANDLE PEAK CURRENTS FROM ALL APPLIANCES ON THOSE CIRCUITS.**
- **THE VOLTAGE APPLIED TO THESE PRODUCTS MUST BE WITHIN THEIR RATED VOLTAGE RANGE.**
- **FAILURE TO COMPLY WITH THE INSTALLATION INSTRUCTIONS OR GENERAL INFORMATION SHEETS COULD RESULT IN IMPROPER INSTALLATION, APPLICATION, AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.**
- **CONDUCTOR SIZE (AWG), LENGTH AND AMPACITY SHOULD BE TAKEN INTO CONSIDERATION PRIOR TO DESIGN AND INSTALLATION OF THESE PRODUCTS, PARTICULARLY IN RETROFIT INSTALLATIONS.**

Wheelock products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Wheelock Inc. standard terms and conditions.

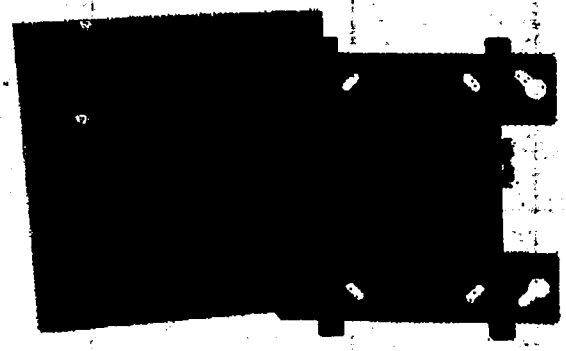
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3 YEAR WARRANTY

S1700 MIZ 06/11

Mircom

INTELLIGENT ADDRESSABLE MODULES MIX-500 SERIES



Features

- Designed to meet a wide range of applications
- SEMS screws for easy wiring
- Panel controlled status LED (except MIX-M501M)
- Analog communications
- Rotary address switches (except MIX-M500X)
- Low standby current
- Mounts in 4" square junction box

Description

Mircom's intelligent module products are designed to meet a wide range of applications. Monitor and control modules can be used to supervise and activate sounders, strobes, door closers, pull stations, waterflow switches, conventional smoke detectors, and more. Each module is rigorously designed and tested for electromagnetic compatibility and environmental reliability, in many cases exceeding industry standards. Modules are addressed with easy-to-use rotary code switches. Full size modules mount in standard 4" x 4" x 2 ⅛" junction box. Wiring terminals are easily accessible for troubleshooting purposes.

MIX-M500M Monitor Module, MIX-M501M Mini Monitor Module and MIX-M500DM Dual Input Monitor Module

Mircom's monitor modules provide an interface to contact devices, such as security contacts, waterflow switches, or manual stations. They are capable of Styles A and B supervised wiring to the load device (MIX-M500M is capable of Style D). Conventional 4-wire smoke detectors can be monitored through their alarm and trouble contacts, wired as an initiating loop to the module. In addition to transmitting the supervised state of the monitored device (normal, open, or short), the full analog supervision measurement is sent back to the panel. This allows impedance changes in the supervised loop to the monitored device to be detected.

The MIX-M500DM is capable of monitoring two separate Class B circuits simultaneously, making it ideal for waterflow tamper switch and flow switch monitoring. The small size of the MIX-M501M allows it to fit inside devices or junction boxes behind devices.

MIX-M500R Relay Module

The MIX-M500R Relay Module contains two isolated sets of Form-C contacts, which operate as a DPDT switch. The module allows the control panel to switch these contacts on command. No supervision is provided for the relay contacts.

MIX-M502M Zone Interface Module

The MIX-M502M Zone Interface Module allows Mircom's intelligent panels to interface and monitor two-wire conventional smoke detectors. All two-wire detectors being monitored must be UL or ULC compatible with the module. The MIX-M502M is addressed through the communication line of an intelligent Mircom system. It transmits the status of one zone of two-wire detectors to the fire alarm control panel. Status conditions are reported as normal, open, or alarm. The interface module supervises the zone of detectors and the connection of the external power supply.

MIX-M500S Supervised Control Module

The MIX-M500S Supervised Control Module provides supervised monitoring of wiring to load devices that require an external power supply to operate, such as horns, strobes, or bells. It is capable of Styles Y and Z supervision. Upon command from the control panel, the MIX-M500S will disconnect the supervision and connect the external power supply across the load device. The disconnection of the supervision provides a positive indication to the panel that the control relay actually turned on. The external power supply is always relay isolated from the communication loop, so that a trouble condition on the power supply will never interfere with the rest of the system. Full analog measurement of the supervised wiring is transmitted back to the panel and can be used to detect impedance changes or other special test functions.

S5434 S5434 7300-1477:113 (MIX-M501M, MIX-M502M, MIX-M500S & MIX-M502M) 7300-1477:125 (MIX-M500DM) 7300-1477:127 (MIX-M500M) 427-91-E (MIX-M500, MIX-M501M) 87-01-E (MIX-M500R, MIX-M500S) 227-03-E (MIX-M500DM) 3017998

CATALOG NUMBER 5903

NOT TO BE USED FOR INSTALLATION PURPOSES.

Mircom reserves the right to make changes at any time without notice in prices, colours, materials, components, equipment, specifications and models and also to discontinue models.

M500X Isolator Module

The M500X Isolator Module is an automatic switch that opens when the line voltage drops below four volts. Isolator modules should be spaced between groups of sensors or modules in a loop to protect the rest of the loop. If a short occurs between any two isolators, then both isolators immediately switch to an open circuit state and isolate the devices between them. The remaining units on the loop continue to fully operate. No more than 25 devices are recommended for each group.

Specifications

General Specifications

15-32 VDC	
40 Ω max.	
32° to 120°F (0° to 49°C)	
10% to 93%; noncondensing	
MIX-M501M	2.7"W x 1.7"H x 0.5"D
Others:	4.25"W x 4.65"H x 1.1"D
M501M: 1.2 oz (37g)	Others: 6.3 oz (196g)

MIX-M500M, MIX-M500S, MIX-M501M Specifications

400 µA max @ 24 VDC (one communication every 5 sec. with 47k EOL) 550 µA max @ 24 VDC (one communication every 5 sec. with EOL<1k) 5.5 mA (with LED latched on)
47 kΩ (included)

MIX-M500R Specifications

300 µA @ 24 VDC (one communication every 5 sec. with LED enabled)
5.5 mA (with LED latched on)
3.0 A @ 30 VDC resistive 0.9 A @ 110 VDC resistive 0.9 A @ 125 VAC resistive 0.5 A @ 125 VAC inductive (PF=.35) 0.7 A @ 75 VAC inductive (PF=.35)

MIX-M502M Specifications

300 µA max @ 24 VDC (one communication every 5 sec. with LED enabled)
18-28 VDC (100 mV ripple max.)
3.9 kΩ (included)
11.5 mA @ 24 VDC (nominal)
80 mA @ 24 VDC (nominal)

MIX-M500DM Specifications

750 µA max. @ 24 VDC (one communication every 5 sec. with 47k EOL)
970 µA max. (one communication every 5 sec.) 6 mA (with LED latched on)
47 kΩ (two included)

MIX-M500X Specifications

450 µA max
5 mA max
250 ms min.
4 Volts
7 Volts

Ordering Information

MIX-M500M	Monitor Module
MIX-M500R	Relay Module
MIX-M500S	Supervised Control Module
MIX-M501M	Mini Monitor Module
MIX-M502M	Zone Interface Module
MIX-M500X	Isolator Module
MIX-M500DM	Dual Input Monitor Module

Add suffix "A" for Canadian model.

NOT TO BE USED FOR INSTALLATION PURPOSES.

Mircom

Canada
25 Interchange Way
Vaughan, Ontario L4K 5W3
Telephone: (905) 660-4655
Fax: (905) 660-4113

U.S.A.
4575 Witmer Industrial Estates
Niagara Falls, NY 14305
Toll Free: (888) 660-4655
Fax Toll Free: (888) 660-4113

Web page: http://www.mircom.com
Email: mail@mircom.com

Distributed by:

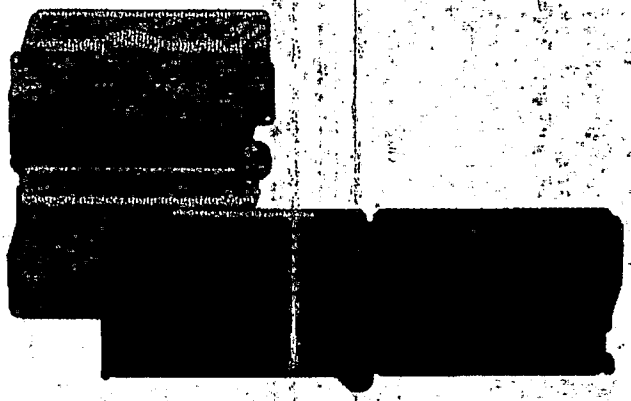
ISO 9001:2008 REGISTERED

CAT. 5903 Rev. 6

SYSTEM SENSOR®

Intelligent Non-Relay Photoelectric Duct Smoke Detector

The InnovairFlex™ Series are the only duct smoke detectors flexible enough to fit configurations from square to rectangular and everything in between.



InnovairFlex™

Features

- Photoelectric, integrated low-flow technology (detector head sold separately)
- Air velocity rating from 100 ft/min to 4,000 ft/min
- Adjusts to square and rectangular mounting configurations
- Broad ranges for operating temperature (–4°F to 158°F) and humidity (0% to 95% non-condensing)
- Patented tool-free, plug-in sampling tubes
- New cover tamper signal
- Increased wiring space with a new ¾-inch conduit knockout
- Housing has space for mounting a relay module
- Easily accessible code wheels on sensor head (sold separately)
- Clear cover for convenient visual inspection
- UL 268A listed
- Remote testing capability
- Requires com line power only
- NEMA Type 4 UL listed for non-hazardous indoor and outdoor applications (**DNRW only**)
- UV-resistant, UL-listed housing and cover material (**DNRW only**)

Agency Listings

UL LISTED 7911 · FM APPROVED 3029703 · 3242-1653:209/210 · MSFM approved 2125

The **InnovairFlex Series DNR** and **DNRW** are intelligent (addressable) non-relay photoelectric duct smoke detectors. Like all InnovairFlex detectors, the DNR and DNRW both feature an adjustable housing design that fits square and rectangular installation footprints, mounts to both round and rectangular ductwork, and utilizes tool-free, plug-in sampling tubes for increased application flexibility and installation ease.

These units sense smoke in challenging conditions, operating in airflow speeds of 100 to 4,000 feet per minute, temperatures of –4°F to 158°F, and a humidity range of 0 to 95 percent (non-condensing). For even more extreme environments like rooftops, the DNRW's NEMA 4-rated watertight and UV-resistant housing protects against windblown dirt and dust, rain, and hose directed water, enabling it to be installed without a costly enclosure, saving time and money.

The InnovairFlex housing cover isolates the sensor head from the low-flow feature for simple maintenance, and a cover tamper feature initiates a trouble signal for a removed or improperly installed sensor cover. The housing also provides a ¾-inch conduit knockout and ample space to facilitate easy wiring and mounting of a relay module to meet specific application requirements. These detectors can be customized to meet local codes and specifications without additional wiring.

The InnovairFlex line is compatible with all previous Innovair models, including remote test accessories, for easy retrofits.

WARNING: Duct smoke detectors have specific limitations.

InnovairFlex Duct Smoke Detector Specifications

Architectural/Engineering Specifications

The air duct smoke detector shall be a System Sensor InnovairFlex™ DNR Intelligent Non-Relay Photoelectric Duct Smoke Detector and DNRW Watertight NEMA 4 Duct Smoke Detector. The detector housing shall be UL listed per UL 268A specifically for use in air handling systems. The flexible housing of the duct smoke detector fits both square and rectangular footprints. The detector shall operate at air velocities of 100 ft/min to 4,000 ft/min (0.5 m/sec to 20.32 m/sec). The unit shall be capable of providing a trouble signal in the event that the sensor cover is removed or improperly installed. It shall be capable of local testing via magnetic switch or remote testing using the RTS151KEY remote test station. Terminal connections shall be of the strip and clamp method suitable for 12–18 AWG wiring.

Physical Specifications

Size: (Rectangular)	14.38 in (37 cm) Length; 5 in (12.7 cm) Width; 2.5 in (6.6 cm) Depth
(Square)	7.75 in (19.7 cm) Length; 9 in (22.9 cm) Width ; 2.5 in (6.35 cm) Depth
Weight:	1.6 lb (0.73 kg)
Environmental Rating:	NEMA 4 (DNRW only)
Operating Temperature Range:	–4°F to 158°F (–20°C to 70°C)
Storage Temperature Range:	–22°F to 158°F (–30°C to 70° C)
Operating Humidity Range:	0% to 95% relative humidity (non-condensing)
Air Duct Velocity:	100 to 4,000 ft/min (0.5 to 20.32 m/s)
DCOIL (if included):	17.5 – 26.4 VDC, 95 mA max

Electrical Ratings

Please see detector head installation manual for electrical specifications

Accessory Current Loads at 24 VDC

Device	Standby	Alarm
RA100Z	0 mA	12 mA Max.
RTS151/RTS151KEY	0 mA	12 mA Max.

Installing the InnovairFlex Sampling Tube

The InnovairFlex sampling tube may be installed from the front or back of the detector. The tube locks securely into place and can be removed by releasing the front or rear locking tab (front locking tab shown below right).



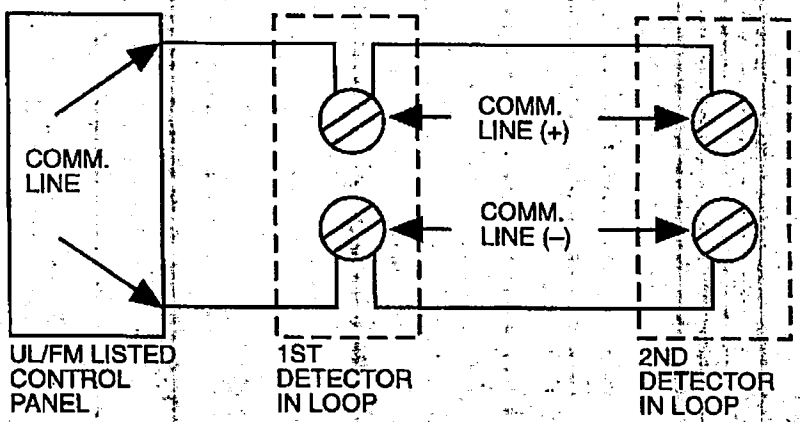




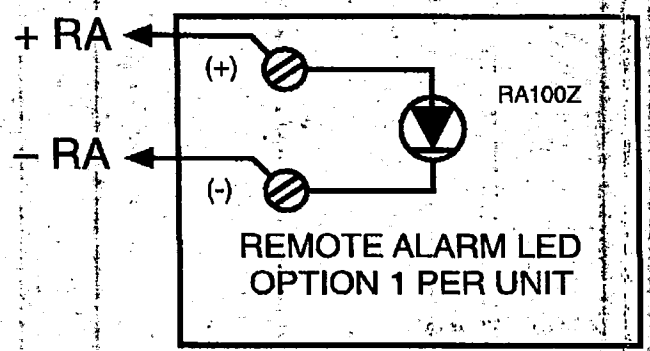
A05-0422-005

Wiring for Intelligent Non-Relay Duct Smoke Detector

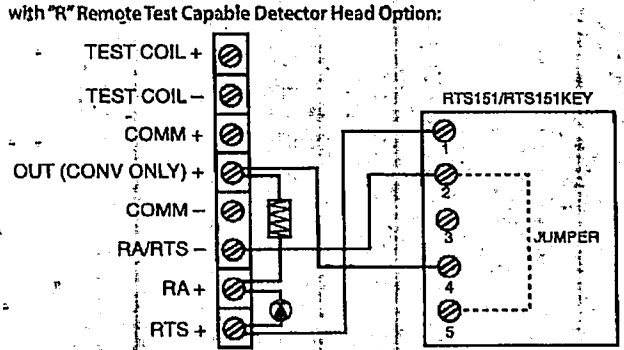
System wiring diagram for DNR:



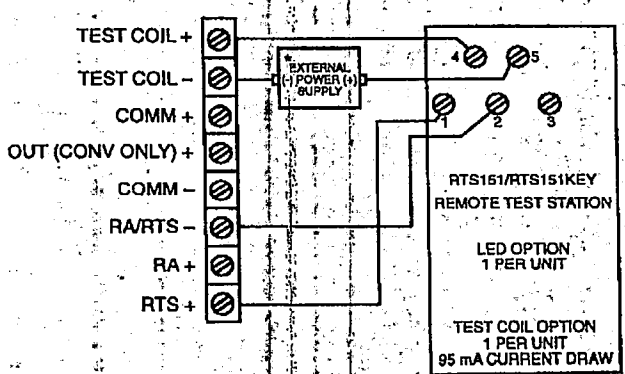
DNR to RA100Z:



DNR to RTS151/RTS151KEY with "R" Remote Test Capable Detector Head Option:



DNR to RTS151/RTS151KEY with DCOIL Option*:



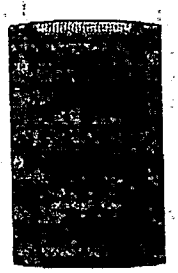
***Important Notes**

- The use of either the RTS151 or RTS151KEY requires the installation of an accessory coil, DCOIL, sold separately. Please refer to the DNR or DNRW installation manual for more information.
- The RTS151/RTS151KEY test coil circuit requires an external 24 VDC power supply which must be UL listed.

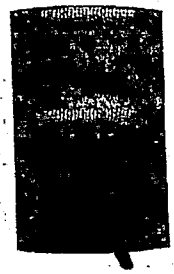
A05-0422-005

Accessories

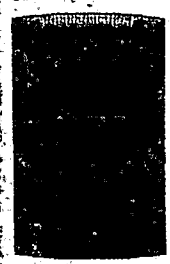
System Sensor provides system flexibility with a variety of accessories, including two remote test stations and different means of visible and audible system annunciation. As with our duct smoke detectors, all duct smoke detector accessories are UL listed.



RTS151 UL S2522



RTS151KEY UL S2522



RA100Z UL S2522

Ordering Information

Part No.	Description
DNR	Intelligent non-relay photoelectric low-flow duct smoke detector
DNRW	Watertight intelligent non-relay photoelectric low-flow duct smoke detector
Accessories	
DCOIL	Remote test coil required with RTS451/RTS451KEY/RTS151/RTS151KEY
DST1	Metal sampling tube duct width up to 1ft (0.3m)
DST1.5	Metal sampling tube duct widths 1 ft to 2 ft (0.3 to 0.6 m)
DST3	Metal sampling tube duct widths 2 ft to 4 ft (0.6 to 1.2 m)
DST5	Metal sampling tube duct widths 4 ft to 8 ft (1.2 to 2.4 m)
DST10	Metal sampling tube duct widths 8 ft to 12 ft (2.4 to 3.7 m)
P48-21-00	End cap for metal sampling tubes
ETX	Metal exhaust tube duct width 1ft (0.3 m)
M02-04-00	Test magnet
RA100Z	Remote annunciator alarm LED
RTS151	Remote test station
RTS151KEY	Remote test station with key lock
DH400OE-1	Weatherproof enclosure

SYSTEM SENSOR

3825 Ohio Avenue • St. Charles, IL 60174
Phone: 800-SENSOR2 • Fax: 630-377-6495

©2010 System Sensor.
Product specifications subject to change without notice. Visit systemsensor.com for current product information, including the latest version of this data sheet.
A05-0422-005 • 9/10 • #2470

FIRE-LITE® ALARMS

www.firelite.com

March 17, 2005 DF-51410 • I-100

FM Series
Electromagnetic Door Holders

Section: Miscellaneous

GENERAL

FM Series electromagnetic door holders are designed for virtually any remote door release application. They are primarily used to hold fire and smoke barrier doors open until released by a remote smoke detector or other switching device. The complete assembly consists of: an armature contact plate with adjustable pivot mounting for installation in the door, and a heavy-duty electromagnet, in a durable plastic enclosure, mounted on the wall or floor behind the door. A separate closing device is required.

c UL us LISTED R11746

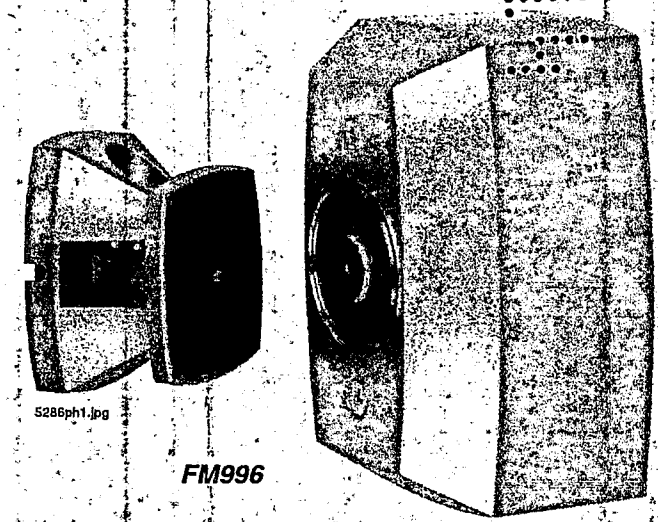
BSA 750-76-SA *(FM980, FM998)*

MEA 447-00-E

California State Fire Marshal 3550-0075:173

FEATURES

- All models support 12 VDC, 24 VAC/VDC, or 120 VAC.
- Improperly applied voltage does not damage the unit.
- Spacing kit for odd angles.
- 25 to 40 pounds (11.3 kg) holding power.
- Magnet protected against transients and surges up to 600 volts (AC models).
- Fail-safe operation; power failure releases door to close.
- Positive release button initiates closing motion.
- Two-year warranty.
- Floor- and wall-mount models.



5286ph1.jpg

FM996

INSTALLATION

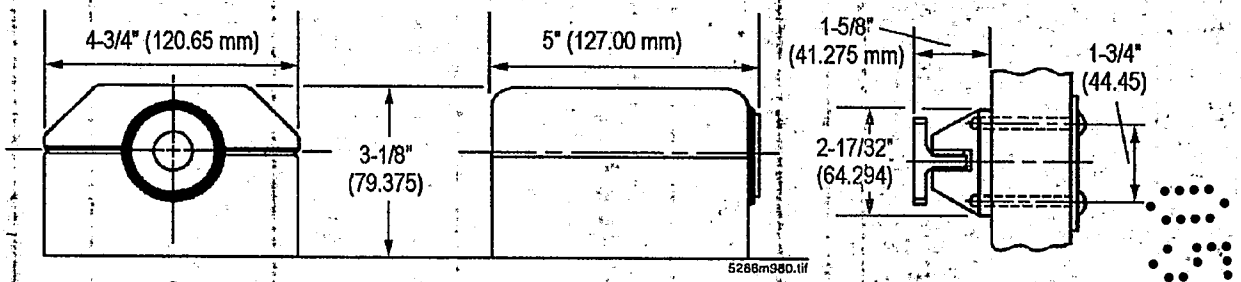
- Used in hospitals, schools, offices, nursing homes, and public buildings.
- Install where required by code, where doors may be used to confine smoke or fire, or wherever remote control or automatic closing doors are required.
- Ensure that door hardware and trim projections are compatible with total projection of door release.
- Anchor the electromagnet firmly, as the wall portion will function as a doorstop.
- Locate magnet approximately 6" (15.24 cm) in from the lock stile at the door. Wall magnets should be mounted approximately two to four feet (0.61 to 1.22 meters) above the floor for optimum performance.
- Door-mounted contact plate includes hardware for thrubolting or concealed mounting.
- Spotting template included with unit assures correct alignment.
- 14 AWG (2.0 mm²) maximum wire size.

ORDERING INFORMATION

FM980	Surface floor-mount model for single door; 12 VDC, 24 VAC/VDC, 120 VAC.
FM996	Surface wall-mount model; 12 VDC, 24 VAC/VDC, 120 VAC.
FM998	Flush wall-mount model; 12 VDC, 24 VAC/VDC, 120 VAC.
FM900	Extension kit.
FM900-Z	Extension kit, 90°.
FM900-50	Spacer, 1/2" (1.27 cm).
FM900-75	Spacer, 3/4" (1.905 cm).
FM-900-100	Spacer, 1" (2.54 cm).

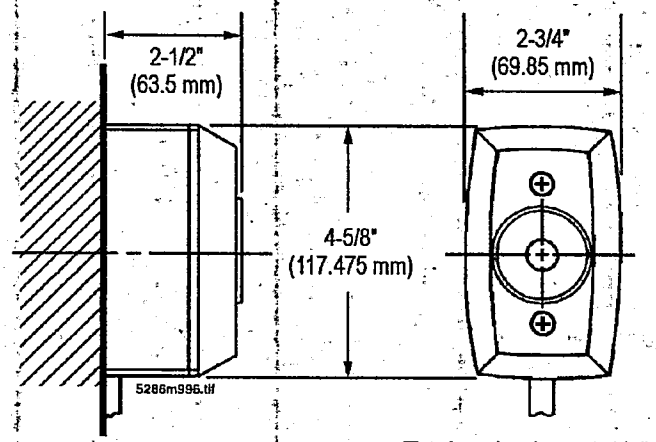
Fire•Lite® Alarms is a Honeywell company.
This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.
For more information, contact **Fire•Lite Alarms**, One Fire-Lite Place, Northford, Connecticut 06472. Phone: (800) 627-3473, Toll-Free FAX: (877) 699-4105.

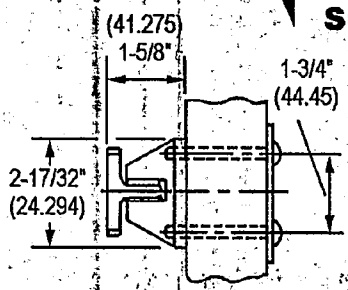
ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING QUALITY SYSTEMS



Model 980
Floor-Mount
Single Door

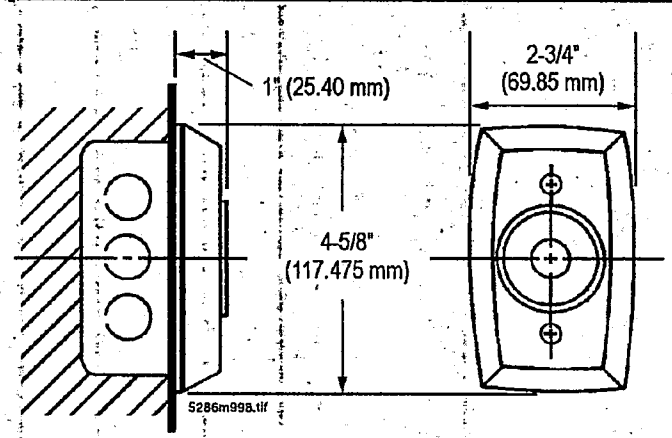
- Concealed wiring.
- Total floor space required: 6-5/8" (168 mm).
- Mounting requirements: Conduit connects directly to floor plate.
- UL-Listed door holder.
- Voltage/current:
  120 VAC, 60 Hz, 0.020 amp.
  24 VAC/VDC, 60 Hz, 0.020 amp.
  12 VDC, 0.040 amp.
- Shipping weight: 4 lbs. (1.8 kg).

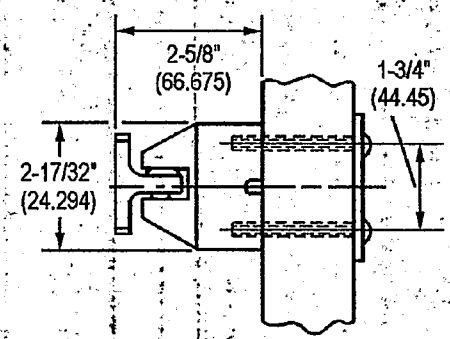




Model 996
Wall-Mount
Surface Wiring

- Total projection: 4-1/8" (105 mm).
- Mounting requirements: 1-1/2" (38 mm) deep adapter housing.
- UL-Listed door holder.
- Voltage/current:
  120 VAC, 60 Hz, 0.020 amp.
  24 VAC/VDC, 60 Hz, 0.020 amp.
  12 VDC, 0.040 amp.
- Shipping weight: 3 lbs. (1.4 kg).





Model 998
Wall-Mount
Standard Doors
Concealed Wiring

- Total projection: 3-5/8" (92 mm).
- Mounting requirements: 2" x 4" x 1-3/4" (51 x 102 x 45 mm) outlet box.
- Wall must be properly reinforced and outlet box adequately fastened.
- UL-Listed door holder.
- Voltage/current:
  120 VAC, 60 Hz, 0.020 amp.
  24 VAC/VDC, 60 Hz, 0.020 amp.
  12 VDC, 0.040 amp.
- Shipping weight: 2-1/2 lbs. (1.1 kg).

EXFILTRATION TRENCH LENGTH CALCULATIONS

K =	1.10E-05	cfs/sf-ft
H_2 =	3.87	ft.
W =	11.00	ft.
D_u =	2.87	ft.
D_s =	11.13	ft.
GWT	2.23	ft.
Vtreat	0.10	ac-inch

Top Elevation =	6.10	ft. NGVD.
GWT =	2.23	ft. NGVD.
Pipe Diameter =	15.00	inches
Inv. Elevation =	1.50	ft. NGVD.
Bottom Elevation =	-8.90	ft. NGVD.

β (sec)	γ (ft^2)	δ (ft^2/sec)	α(ft^3)	$t_{cs(Sec.)}$	$t_{cs(Min.)}$
2628	15.8	0.002	832	5141	86

Required exfiltration trench length for quality volume (ft.)	Required length of exfiltration trench for quantity volume (ft.)	Provided Length (ft)
18	23	**25**

PROVIDED LENGTH = 25.0 feet

SAN JUAN HOTEL (1680 Collins Avenue)
MIAMI BEACH, FLORIDA

BASIN INFORMATION (5 YEAR STORM EVENT)

Total Drainage Area (A) =	**0.050**	acres.
Impervious Area (A_{imp})=	0.040	acres.
Pervious Area (A_{perv})=	0.010	acres.
Lowest Grnd. Elev. for Prop. System =	6.10	feet NGVD
Proposed Lowest Grate or Weir Elevation =	6.10	feet NGVD
Water Table Elev. (GWT) =	2.23	feet NGVD
Weighted Runoff Coefficient (C):		
Runoff Coefficient Impervious (C1) =	0.95	
Runoff Coefficient Pervious (C2) =	0.35	
C = [(A1 x C1) + (A2 x C2)] / A=	0.83	
C x A = Total Contributing Area;	0.04 (Acres)	**1,807.74 (sft)**
Design storm frequency (years), T=	5	
Minimum time of Concentration (min.), t_{tc}=	10	
Weighted Hyd. Conductivity (cfs/sf - ft), K=	1.10E-05	

QUALITY VOLUME TO BE TREATED BY EXFILTRATION TRENCH

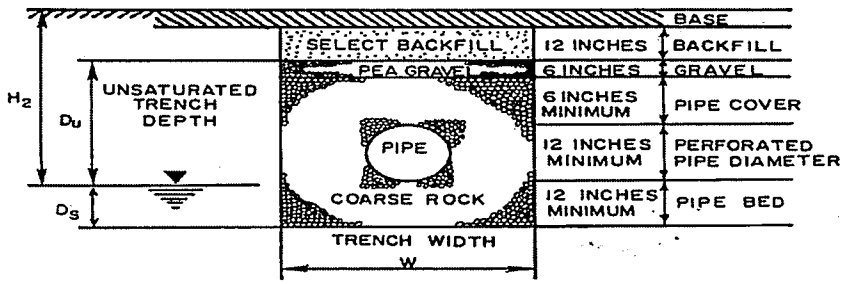
Required volume to be pre-treated through exfiltration is the highest of:

A) 1" over Site Area = 1.0 inch x Site Area (acre-in.) = 0.050 acre-in.

B) 2.5 inches x % impervious x Site Area (acre-in.) = 0.10 acre-in.

Total required volume to be pre-treated through exfiltration, V_{treat} = 0.10 acre-in.

EXFILTRATION TRENCH



W = Trench width (ft)

D_u = Non-Saturated Trench Depth (ft)

D_s = Saturated Trench Depth (ft)

L = Provided Length of Exfiltration Trench

4/9/14

WALTER M. LUGO, P.E.
FL REG. No. 61747

EXFILTRATION TRENCH LENGTH CALCULATIONS

K =	1.10E-05	cfs/sf-ft
H_2 =	3.87	ft.
W =	11.00	ft.
D_u =	2.87	ft.
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GWT	2.23	ft.
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Top Elevation =	6.10	ft. NGVD.
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β (sec)	γ (ft^2)	δ (ft^2/sec)	α(ft^3)	$t_{cs(Sec.)}$	$t_{cs(Min.)}$
2628	15.8	0.002	832	5141	86

Required exfiltration trench length for quality volume (ft.)	Required length of exfiltration trench for quantity volume (ft.)	Provided Length (ft)
18	23	**25**

PROVIDED LENGTH = 25.0 feet

March 25, 2014

Mr. Ben Dennis
ADD, Inc
One Biscayne Tower, Suite 1670
2 South Biscayne Boulevard
Miami, FL 33131
Phone: (305) 482-8743

RE: Exfiltration Test
San Juan Hotel Pool
1680 Collins Avenue
Miami Beach, FL 33139
GFA Project No.: 13-1455.01

Dear Mr. Dennis,

GFA International performed one (1) exfiltration test (EX-1) at the location shown in **Figure 1** for the above-mentioned project to assess the hydraulic conductivity coefficient data for the design of the drainage areas. The exfiltration test was performed in accordance with the SFWMD Falling Head "Usual Condition" Open Hole Test Method to a depth of 15 feet below the ground surface. The calculated hydraulic conductivity coefficient for the exfiltration test was 1.1 x 10^{-5} ft3/sec/ft^2-ft of head. The test results are attached to this letter.

We appreciate the opportunity to be of service to you on this project and look forward to a continued association. Please do not hesitate to contact us if you have any questions or comments, or if we may further assist you as your plans proceed.

Sincerely,
GFA International, Inc.
FBPE CA # 4930

CARLOS A. MERCADO LICENSE No. 71707 STATE OF FLORIDA PROFESSIONAL ENGINEER

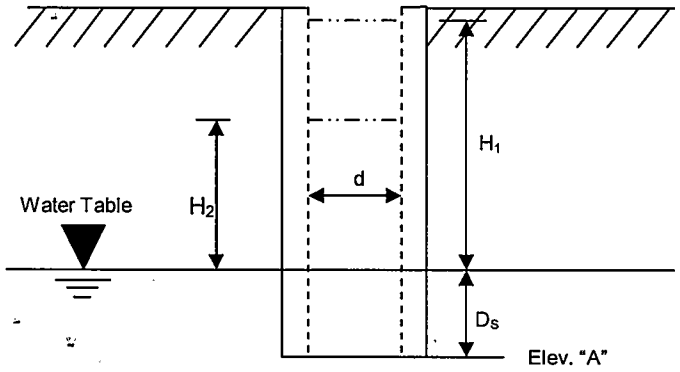
Carlos Mercado
Mar 26 2014 4:05 PM

GoSign

Carlos A. Mercado, P.E.
Professional Engineer # 71707
State of Florida

GPA

HYDRAULIC CONDUCTIVITY TEST RESULTS



K = Hydraulic Conductivity (cfs/ft.^{2}-ft.Head)

d = Diameter of Test Hole (feet)

H_1 = Height of Water in Hole Above Water Table at Time, t_1 (feet)

H_2 = Height of Water in Hole Above Water Table at Time, t_2 (feet)

D_s = Saturated Hole Depth (feet)

Elevation "A" = Proposed Trench Bottom Elevation

t_1; t_2 = Time (seconds)

Tests were performed and calculated as presented in the manual "Design of Exfiltration Trench to meet SFWMD Regulatory Criteria".

GFA

HYDRAULIC CONDUCTIVITY TEST RESULTS

Project name: San Juan Hotel

Project number: 13-1455.01

Date: 3/24/2014

SFWMD USUAL Open Hole Formula:

$$K = \frac{d * \ln(\frac{H_1}{H_2})}{(2H_1 + 2H_2 + 4D_s + d)(t_1 - t_2)}$$

Exfiltration Number	Elapsed time (t_2 - t_1)	Perforated casing diameter or hole diameter (d)	Depth of water level at start of test	Water level above ground water at start of test (H_1)	Depth of water level at end of test	Water Level above ground water at end of test (H_2)	Water table	Total length of bore hole	Length of bore hole below stabilized ground water (Ds)	Hydraulic Conductivity (K)
	min.	ft	ft	ft	ft	ft	ft	ft	ft	$ft^3/sec/ft^2$ - ft of head
EX-1	5.00	0.33	0	4.25	1.83	2.42	4.25	15.0	10.75	1.1E-05

EX-1	
Time (s)	Drop Depth (ft)
30	1.00
60	1.17
90	1.25
120	1.42
150	1.50
180	1.58
210	1.58
240	1.75
270	1.75
300	1.83

41-32-80

GFA GNO

SAN JUAN HOTEL

B14038O7

1680 COLLINS AVE, MIAMI BEACH

DRAWING LOG
VOLUME I

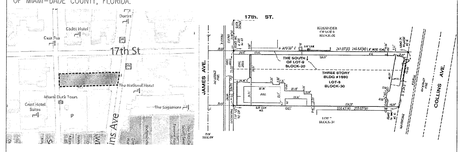
DWG. NO.	TITLE	REVISION 1 ISSUED FOR EXT. FACADE PERMIT 05/09/14	REVISION 2 RESPONSE TO CMB COMMENTS 06/26/14	REVISION 3 PERMIT COMMENTS 07/31/14
	GENERAL			
G001	COVER / DRAWING INDEX	●	●	●
	CIVIL			
C100	GENERAL NOTES AND SPECIFICATIONS		●	
C200	PAVING AND DRAINAGE PLAN		●	
	LANDSCAPE			
LH-1	POOL DECK PAVING PLAN		●	●
LP-1	GROUND FLOOR PLANTING PLAN		●	●
	LIFE SAFETY			
LS100	LIFE SAFETY PHASING PLAN			●
LS101	FIRST FLOOR LIFE SAFETY PLAN		●	●
	DEMOLITION			
AD101	FIRST FLOOR DEMOLITION PLAN		●	●
AD102	EXTERIOR DEMOLITION NOTES		●	●
	ARCHITECTURE			
A001	ARCHITECTURAL SITE PLAN		●	●
A101	ARCHITECTURAL FIRST FLOOR PLAN		●	●
A111	ENLARGED LOBBY PLAN		●	●
A112	ENLARGED POOL DECK PLAN		●	●
A182	UL ASSEMBLIES		●	●
A183	UL ASSEMBLIES		●	●
A191	EXTERIOR ELEVATIONS AND DOOR & WINDOW SCHEDULE		●	●
A201	FIRST FLOOR PLAN RCP & LIGHTING SCHEDULE		●	●
A202	SECOND & THIRD FLOOR PLAN RCP		●	
A211	ENLARGED LOBBY RCP & FINISH PLAN		●	●
A212	OUTDOOR ENLARGED POOL LOUNGE & GARDEN RCP AND FINISH PLAN		●	●
A431	WINDOW TYPES, STOREFRONT DETAILS, AND STAIR DETAILS	●	●	●
A601	ELEVATOR FINISHES & PLAN AND SECTION DETAILS		●	●
A711	FIRST FLOOR FINISH PLAN		●	●
A712	LOBBY FINISH PLAN		●	●
A721	FIRST FLOOR FURNITURE PLAN		●	●
A731	INTERIOR ELEVATIONS		●	●
A732	EXTERIOR ELEVATIONS		●	●
A800	MILLWORK DETAILS		●	●
	STRUCTURAL		●	
S100	GENERAL STRUCTURAL NOTES		●	
S101	SCHEDULES, TYPICAL DETAILS, CONCRETE REPAIR DETAILS		●	
S300	SECTIONS AND DETAILS		●	
S302	SECTIONS AND DETAILS		●	
S400	EXTERIOR WINDOWS AND DOOR DESIGN WIND PRESSURES		●	
SR101	GENERAL STRUCTURAL NOTES - EAST FACADE CONCRETE REPAIRS	●	●	
SR102	TYPICAL CONCRETE REPAIR DETAILS EAST - FACADE CONCRETE REPAIRS	●	●	
SR301	SECTIONS AND DETAILS EAST - FACADE CONCRETE REPAIRS	●	●	
SR401	EAST FACADE CONCRETE REPAIRS - EAST ELEVATION	●	●	
	PLUMBING / MECHANICAL		●	
MP001	PLUMBING INDEX, SYMBOL, LEGEND AND NOTES	●	●	●
MP101	FIRST FLOOR PLUMBING / MECHANICAL PLAN	●	●	●
P201	2ND AND 3RD FLOOR PLUMBING PLAN	●	●	
P301	PLUMBING PIPING ISOMETRICS	●	●	●
	ELECTRICAL		●	
E001	ELECTRICAL INDEX, SYMBOL LEGEND AND NOTES		●	
E100	ELECTRICAL DEMOLITION PLAN		●	
E101A	1ST FLOOR PARTIAL POWER PLAN		●	
E101C	1ST FLOOR PARTIAL LIGHTING PLAN		●	
E101D	1ST FLOOR PARTIAL LIGHTING PLAN		●	
E401	ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES		●	
	POOL CONSULTANT		●	
SP-1.01	POOL LOCATION PLAN		●	
SP-1.02	POOL AREA PLAN		●	
SP-1.03	SWIMMING POOL LAYOUT PLAN		●	
SP-1.04	SWIMMING POOL SECTION		●	
SP-1.05	SWIMMING POOL PIPING PLAN & DETAILS		●	
SP-1.06	SWIMMING POOL DETAILS		●	
SP-1.07	SWIMMING POOL EQUIPMENT		●	

APPLICABLE CODES

ZONING:	CODE OF THE CITY OF MIAMI BEACH
RESTORATION:	FLORIDA BUILDING CODE, EXISTING BUILDINGS, 2010 EDITION
NEW CONSTRUCTION:	FLORIDA BUILDING CODE, 2010 EDITION
PLUMBING:	FLORIDA BUILDING CODE, PLUMBING, 2010 EDITION
MECHANICAL:	FLORIDA BUILDING CODE, MECHANICAL, 2010 EDITION
ELECTRICAL:	NFPA 70-NATIONAL ELECTRICAL CODE
FIRE:	FLORIDA FIRE PREVENTION CODE, 2010 EDITION NFPA 1-UNIFORM FIRE CODE NFPA 101-LIFE SAFETY CODE NFPA 10-STANDARD FOR PORTABLE FIRE EXTINGUISHERS NFPA 13-STANDARD FOR THE INSTALLATION OF SPRINKLERS NFPA 14-STANDARD FOR THE INSTALLATION OF STANDPIPE, HYDRANT AND HOSE SYST. NFPA 72-NATIONAL FIRE ALARM CODE NFPA 80-FIRE DOORS AND OPENING PROTECTIVES NFPA 90A-STANDARD FOR INSTALLATION OF AIR CONDITIONING/VENTILATION UNITS NFPA 96-STANDARD FOR VENTILATION CONTROL OF FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS
FLOODPROOFING:	FEMA 102-FLOODPROOFING FOR NON-RESIDENTIAL STRUCTURES

PROJECT LOCATION/LEGAL DESCRIPTION

PROJECT IS ONE BUILDING LOCATED UPON 1 1/2 LOTS
LOT 8 AND THE SOUTH HALF OF LOT 9, BLOCK 50
LOCATED AT 1680 COLLINS AVENUE.
LOT AREA: 11,334 SQ SF
ALTON BEACH FIRST SUBDIVISION ACCORDING TO THE PLAT THEREOF,
AS RECORDED IN PLAT BOOK 2, PAGE 77, OF THE PUBLIC RECORDS
OF MIAMI-DADE COUNTY, FLORIDA.



ZONING DATA

CODE OF THE CITY OF MIAMI BEACH

SITE DATA	CRITERIA	PROPOSED
ZONING DISTRICT	CD-3 (COMMERCIAL HIGH INTENSITY)	
HISTORIC DISTRICT	HPD-5 (MUSEUM HISTORIC DISTRICT)	
BUILDINGS DESIGNATION	CONTRIBUTING HISTORIC STRUCTURES	
LOT AREA:		18,766 S.F.
FOOTPRINT:		11,162.6 S.F.
LOT COVERAGE:	11334.6 SQ. FT./18554 SQ. FT.	60%
SITE FRONTAGE:		
	COLLINS AVENUE:	76'-0"
	JAMES AVENUE:	75'-0"

BUILDING DATA	EXISTING
EXISTING F.A.R.	30,349 S.F.

BUILDING HEIGHTS	EXISTING
THE SAN JUAN HOTEL COLLINS AVENUE	3 STORIES (38'-0")

PARKING REQUIREMENTS
NO NEW ROOMS ADDED, THEREFORE NO ADDITIONAL PARKING REQUIRED

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

HISTORIC NOTES

- THE SAN JUAN HOTEL IS CATEGORIZED AS A CONTRIBUTING STRUCTURE IN BOTH, THE NATIONAL REGISTER HISTORIC DISTRICT OF MIAMI BEACH AND THE LOCAL MUSEUM HISTORIC DISTRICT DESIGNATED BY THE CITY IN 1990.
- NO SUBSTANTIAL IMPROVEMENTS ARE BEING PROPOSED UNDER THIS PERMIT.

SCOPE OF WORK

THIS PROJECT IS LIMITED TO THE INTERIOR RENOVATION OF A HISTORIC HOTEL (R-1 OCCUPANCY). THE ALTERATION UNDER THIS PERMIT IS CLASSIFIED AS A MODIFICATION AS DEFINED BY NFPA 101, CHAPTER 43.

- MAINTAIN AND UPDATE ALL REQUIRED LIFE SAFETY SYSTEMS.
- REFINISH ALL ARCHITECTURAL HISTORICAL FEATURES SUCH AS THE TERRAZZO FLOORS AT ENTRY AND LOBBY, HISTORIC SOFFITS.
- REPLACE FRONT FACADE WINDOWS AND FIRST BAY OF NORTH AND SOUTH FACADE WITH NEW IMPACT RESISTANT DOORS AND WINDOWS AND EMULATE ORIGINAL ARCHITECTURAL DESIGN AND CONFIGURATION.
- REPLACE SPALLED CONCRETE AT EAST FACADE AND SELECTED AREAS
- ADD NEW BATHROOM AND STORAGE SPACE IN POOL AREA
- DECREASE POOL SIZE AND DEPTH
- REFINISH ROOM 101 AND TURN TO POOL LOUNGE
- MOVE STAIRS TO ACCOMMODATE APPROPRIATE LANDING AT POOL AREA FOR SAFETY
- BACK OF HOUSE RECONFIGURED AND LUGGAGE ROOM ADDED
- PLANTING ADDED AROUND PERIMETER OF POOL AREA AND ENTRY
- NEW CHECK-IN DESK MAINTAIN ALL ELECTRICAL OUTLETS
- NEW LOBBY BAR PROVIDE PROPER ELECTRICAL AND PLUMBING
- REDUCED SIZE POOL, NEW PLANTING AREA, REMOVABLE SEATING, AND PAVING ADDED TO POOL AREA
- TOTAL AREA OF RENOVATION AND ADDITION UNDER THIS PERMIT: 1,902 SF

Miami Beach Building Department NOTICE – A separate permit is required for the indicated items:	
Awnings	
Doors/Windows	✓
Docks/Piers/Seawalls	
Elevators	
Generators	
Kitchen hoods	
Roofing/Waterproofing	✓
Shutters/Flood Panels	
Pools/Spas/Water Features	✓

CLIENT
SAN JUAN HOTEL, LLC

ADD Inc Architecture Interiors Planning
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Miami, Fl 33131
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F. 305.482.8770
www.addinc.com

9.15.14
Jonathan Cardello
Lic.#AA26001507
Boston Miami

Contact: Jonathan Cardello PH: 305.482.8700

GENERAL CONTRACTOR
NBCP
NEW BEACH CONSTRUCTION PARTNERS
328 NW 29TH STREET
MIAMI, FL 33127
Contact: CHAD ADAMS PH: 305.577.6406

MEP
DELTA G ENGINEERS
707 NE 3RD AVE. SUITE 200
FT. LAUDERDALE, FL 33304
Contact: STEEVE ROBITAILLE PH: 954.527.1112

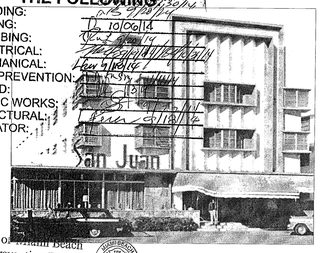
STRUCTURAL ENGINEER
DOUGLAS WOOD ASSOCIATES
2100 PONCE DE LEON BOULEVARD. SUITE 1020
CORAL GABLES, FL 33134
Contact: DOUGLAS WOOD PH: 305.461.3450

POOL CONSULTANT
AQUADYNAMICS
5000 SW 75TH AVE. SUITE 103
MIAMI, FL 33155
Contact: JOHN WAHLER PH: 304.667.8795

CIVIL ENGINEER
OCEAN ENGINEERING INC
333 NE 24 ST. SUITE 408
MIAMI, FL 33137
Contact: WALTER LUGO PH: 786.253.5252

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

BUILDING:
ZONING: 10/09/14
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
FLOOD:
PUBLIC WORKS:
STRUCTURAL:
ELEVATOR:



City of Miami Beach
Fire Prevention Division
PLANS APPROVED

PERMIT SET
06.26.14

PUBLIC WORKS
PLAN REVIEW NOTICE
Phone 305-673-7080 Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Permit and/or ... prior to start of construction

Permit Requirements: Proof of existing sidewalk conditions (pictures) and/or posting of sidewalk ... (Public Works Inspection of the ... prior to final sign-off on the C.C./C.O. ...

Approved/Disapproved ... 9/22/14

Miami Beach Building Department
NOTICE - A separate permit is required for the indicated items:
Awnings
Doors/Windows
Docks/Piers/Seawalls
Elevators
Generators
Kitchen hoods
Roofing
Shutters/Flood Panels
Pools/Spas/Water Features

SAN JUAN HOTEL

1680 COLLINS AVE, MIAMI BEACH

B1405807

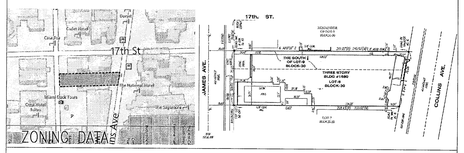
DRAWING LOG VOLUME I		ISSUED FOR: ESTERO FACADE PERMIT 05/26/14	REVISIONS TO PERMIT 06/26/14					
DWG. NO.	TITLE							
	GENERAL		●					
G001	COVER / DRAWING INDEX	●	●					
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LH-1	POOL DECK PAVING PLAN		●					
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A431	WINDOW TYPES, STOREFRONT DETAILS, AND STAIR DETAILS	●	●					
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	POOL CONSULTANT		●					
SP-1.01	POOL LOCATION PLAN		●					
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SP-1.06	SWIMMING POOL DETAILS		●					
SP-1.07	SWIMMING POOL EQUIPMENT		●					

APPLICABLE CODES

ZONING:	CODE OF THE CITY OF MIAMI BEACH
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FLOODPROOFING:	FEMA 102–FLOODPROOFING FOR NON–RESIDENTIAL STRUCTURES

PROJECT LOCATION/LEGAL DESCRIPTION

PROJECT IS ONE BUILDING LOCATED UPON 1 1/2 LOTS
LOT 8 AND THE SOUTH HALF OF LOT 9, BLOCK 30
LOCATED AT 1680 COLLINS AVENUE:
LOT AREA: 11,334 SQ SF
ALTON BEACH FIRST SUBDIVISION ACCORDING TO THE PLAT THEREOF,
AS RECORDED IN PLAT BOOK 2, PAGE 77, OF THE PUBLIC RECORDS
OF MIAMI–DADE COUNTY, FLORIDA.



ZONING DATA

CODE OF THE CITY OF MIAMI BEACH

SITE DATA	CRITERIA	PROPOSED
ZONING DISTRICT	CD–3 (COMMERCIAL, HIGH INTENSITY)	
HISTORIC DISTRICT	HPD–5 (MUSEUM HISTORIC DISTRICT)	
BUILDINGS DESIGNATION	CONTRIBUTING HISTORIC STRUCTURES	
LOT AREA:		19,766 S.F.
FOOTPRINT:		11,162.6 S.F.
LOT COVERAGE:	11334.6 SQ. FT./18554 SQ. FT.	60%
SITE FRONTAGE:		
	COLLINS AVENUE:	76'–0"
	JAMES AVENUE:	75'–0"

BUILDING DATA	EXISTING
EXISTING F.A.R.	30,349 S.F.

BUILDING HEIGHTS	EXISTING
THE SAN JUAN HOTEL COLLINS AVENUE	3 STORIES (38'–0")

PARKING REQUIREMENTS
NO NEW ROOMS ADDED, THEREFORE NO ADDITIONAL PARKING REQUIRED

DERM
PLAN REVIEW
FINAL
APPROVAL
DEPARTMENT OF ENVIRONMENTAL RESOURCE MANAGEMENT
CORE REVIEWER (PRINT): Miguel De Armas
SIGNATURE: [signature] DATE 8-20-2014

CITY OF MIAMI BEACH
REFERENCE
ONLY

SCOPE OF WORK

- MAINTAIN AND UPDATE ALL REQUIRED LIFE SAFETY SYSTEMS.
- REFINISH ALL ARCHITECTURAL HISTORICAL FEATURES SUCH AS THE TERRAZZO FLOORS AT ENTRY AND LOBBY, HISTORIC SOFFITS.
- REPLACE FRONT FACADE WINDOWS AND FIRST BAY OF NORTH AND SOUTH FACADE WITH NEW IMPACT RESISTANT DOORS AND WINDOWS AND EMULATE ORIGINAL ARCHITECTURAL DESIGN AND CONFIGURATION.
- REPLACE SPALLED CONCRETE AT EAST FACADE AND SELECTED AREAS
- ADD NEW BATHROOM AND STORAGE SPACE IN POOL AREA
- DECREASE POOL SIZE AND DEPTH
- REFINISH ROOM 101 AND TURN TO POOL LOUNGE
- MOVE STAIRS TO ACCOMMODATE LARGER LANDING AT POOL AREA FOR SAFETY
- BACK OF HOUSE RECONFIGURED AND LUGGAGE ROOM ADDED
- PLANTING ADDED AROUND PERIMETER OF POOL AREA AND ENTRY
- NEW CHECK–IN DESK MAINTAIN ALL ELECTRICAL OUTLETS
- NEW LOBBY BAR PROVIDE PROPER ELECTRICAL AND PLUMBING
- REDUCED SIZE POOL, NEW PLANTING AREA, REMOVABLE SEATING, AND PAVING ADDED TO POOL AREA
- REPLACE SPALLED CONCRETE AT EAST FACADE AND SELECTED AREAS
- REPLACE SELECTED WINDOWS AT EAST FACADE
- ADDITION OF LOBBY BAR
- ADDITION OF OUTDOOR TOILET

PUBLIC WORKS
PLAN REVIEW NOTICE
Phone 305-673-7080 Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR OBTAINING BUILDING PERMITS ONLY.

All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.

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

Approved/Reviewed by: DF Date: 7/10/14

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Jonathan Cardello
Lic.#AA26001507
Boston Miami

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CORAL GABLES, FL 33134

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MIAMI, FL 33155

Contact: JOHN WAHLER PH: 304.667.8795

CIVIL ENGINEER
OCEAN ENGINEERING INC
333 NE 24 ST. SUITE 408
MIAMI, FL 33137

Contact: WALTER LUGO PH: 786.253.5252

CITY OF MIAMI BEACH
REFERENCE
ONLY



Fire Prevention Division
PLANS APPROVED

PERMIT SET
06.26.14
OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:	
ZONING:	
PLUMBING:	
ELECTRICAL:	
MECHANICAL:	
FIRE PREVENTION:	
FLOOD:	
PUBLIC WORKS:	DF 7/10/2014
STRUCTURAL:	
ELEVATOR:	

CITY OF MIAMI BEACH
REFERENCE
ONLY

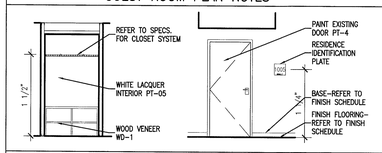
FINISH PLAN LEGEND

- PT-1 — PAINTED CONCRETE
- C-1 — GUESTROOM CARPET TILE
- C-2 — HALLWAY CARPET TILE
- TL-1 — PORCELAIN TILE W/ RINGS 2' x4'
- TL-2 — KEYSTONE RESTAURANT FLOORING
- ST-1 — STONE PAVERS
- ST-2 — STONE PAVERS
- P 1 — WALL FINISH
- PLAM 1 — HORIZONTAL FINISH MATERIAL
- CG-1 — CORNER GUARD –
- T-1 — TERRAZZO

REFLECTED CEILING PLAN LEGEND

- 2 X 2 SUSPENDED CEILING GRID SYSTEM
- GWB CEILING/SOFFIT
- 9'-0" ACT — CEILING HEIGHT KEY: CEILING HEIGHT – AFF; CEILING TYPE
- 4' FLUORESCENT STRIP
- 2' X 4' FLUORESCENT
- DOWNLIGHT
- WALLWASHER
- PENDANT FIXTURE
- WALL SCONCE
- EMERGENCY LIGHT BATTERY POWERED WALL MOUNTED
- SURFACE MOUNTED LIGHT FIXTURE
- EXIT SIGN ARROWS INDICATE DIRECTION
- EXIT SIGN – WALL MOUNTED ARROWS INDICATE DIRECTION
- S — SMOKE DETECTOR
- S — SPEAKER
- SPRINKLER
- SPRINKLER – DELUGE
- SPRINKLER – CONCEALED
- LINEAR DIFFUSER
- WA — WIRELESS ACCESS W/ DATA CONNECTION
- CAM — SECURITY CAMERA
- AP-1 — HVAC ACCESS PANEL

GUEST ROOM PLAN NOTES



PLAN NOTES

1. ALL WORK TO BE NEW U.O.N.
2. ALL WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL BUILDING CODES AND REGULATIONS.
3. ANY CONFLICTS BETWEEN SITE CONDITIONS AND DRAWINGS SHALL BE BROUGHT TO THE IMMEDIATE
4. ATTENTION OF THE ARCHITECT/DESIGNER.
5. ALL DOORS TO BE 6" FROM NEAREST PERPENDICULAR PARTITION, U.O.N.
   REVIEW LAYOUTS FOR PARTITIONS IN FIELD WITH ARCHITECT/DESIGNER PRIOR TO START OF CONSTRUCTION.
6. PROVIDE FIRE EXTINGUISHERS (RECESSED WITH CABINETS) IN QUANTITIES AND LOCATIONS ON DWGS (EVERY 3000 SQ-FT & 75' MAX TRAVEL DISTANCE) . REVIEW FINAL LOCATIONS WITH THE ARCHITECT/DESIGNER PRIOR TO CONSTRUCTION. PARTITION DEPTH AT FIRE EXTINGUISHER CABINET LOCATIONS TO ACCOMMODATE FULL CONCEALMENT OF RECESSED CABINETS, U.O.N.
7. COORDINATE BLOCKING REQUIREMENTS AND LOCATIONS WITH ELEVATIONS AND DETAILS. ALL BLOCKING TO BE FIRE TREATED.
   ALIGN CENTERLINES OF ALL FIRE EXTINGUISHER CABINETS AND MET-FP DEVICES ON WALLS IN THE SAME LOCATION.
8. DIMENSIONS:
   A. ALL DIMENSIONS ARE TO FINISHED FACE OF WALL U.O.N.
   B. DRAWINGS ARE NOT TO BE SCALED; VERIFY ANY MISSING OR CONFLICTING WRITTEN DIMENSIONS WITH THE ARCHITECT/DESIGNER PRIOR TO CONSTRUCTION.
   C. NOTIFY ARCHITECT OF CONDITIONS WHERE CLEAR OR CRITICAL DIMENSIONS ARE DESIGNATED BUT CANNOT BE MET OR WHERE CORRIDOR/AISLE WIDTH CANNOT MEET THE MINIMUM REQUIREMENTS (3'-8" U.O.N.)
   D. MAINTAIN FINISH FLOOR BASE ELEVATION THROUGHOUT THE CONTRACT AREA SUCH THAT ALL DIMENSIONS INDICATED AS ABOVE FINISH FLOOR ARE AT THE SAME ELEVATION.
9. EXTREME CARE SHALL BE EXERCISED IN CUTTING, DRILLING, ANCHORING, ETC. TO THE EXISTING STRUCTURE. IF ANY DETERIORATION, OR DAMAGE TO THE EXISTING STRUCTURE OCCURS DURING CONSTRUCTION, IT SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
10. ALL EXISTING EXPOSED CMU BLOCK / CONCRETE AREAS (WALLS AND FLOORS) TO BE PATCHED, FILLED, AND SKIM COATED WITH NOW ANTI-CRACKING SUBSTRATE, AND SEALED.
11. PROVIDE TEMPORARY SECURE ACCESS TO SPACE THROUGH CONSTRUCTION AND TEMPORARY LIGHT & POWER.
12. PROVIDE STRICT CONTROL OF JOB CLEANING AND PREVENT DUST AND DEBRIS FROM EMANATING FROM CONSTRUCTION AREA. GENERAL CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF TRASH AND DEBRIS DURING CONSTRUCTION.
13. CAP AND SHUT OFF ALL UNUSED UTILITIES PER CITY AND STATE REQUIREMENTS, WHERE REQUIRED. PROVIDE TEMPORARY FIRE / SAFETY DEVICES THROUGHOUT CONSTRUCTION. SECURE DEVICES AS NCESSARY.
14. PROTECT ALL BASE BUILDING SERVICES, TYPICAL.
15. ALL REQUIREMENTS FOR FIRE RATINGS TO BE MAINTAINED DURING CONSTRUCTION.
    THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID, ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITION OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. ABSOLUTELY NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BLDG.
16. THE CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THEIR WORK. POTENTIAL PROBLEM AREAS SHALL BE BROUGHT TO THE ATTN. OF THE ARCHITECT AND/OR ENGINEER IMMEDIATELY.
    SHUTDOWN OF EXISTING SYSTEMS FOR CONNECTION TO EXISTING SERVICES SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER AND BUILDING OWNER. THE CONTRACTOR SHALL SUBMIT REQUESTS, WHERE THEY AFFECT THE OPERATION OF THE BUILDING SYSTEMS, AT LEAST ONE WEEK IN ADVANCE OF ANY REQUIRED SHUTDOWN. THE ACTUAL SHUTDOWN PERIOD SHALL BE AS SHORT AS POSSIBLE AND AT A TIME MUTUALLY AGREEABLE TO THE BUILDING OWNER AND THE CONSTRUCTION MANAGER.

GENERAL LEGEND

- DETAIL KEY: 1 / A901 — DETAIL NUMBER; DRAWING NUMBER
- ROOM KEY: ROOM NAME / 1.0065 — ROOM NAME; ROOM NUMBER
- CEILING FINISH KEY: 9'-0" / ACT — CEILING HEIGHT; MATERIAL
- FINISH KEY: VB / 1 — FINISH TYPE; FINISH NUMBER
- ELEV 25'-0" — SPOT ELEVATION KEY
- ALIGN KEY — ALIGN FINISH SURFACES
- LIMIT OF WORK
- MATCH LINE / SEE X/XXXX — MATCH LINE
- 4'-0" — DIMENSION LINE
- FLOOR DRAIN
- N.I.C. SHADING
- NEW PARTITION
- 1 / A301 — BUILDING SECTION KEY
- ELEVATION KEY: 22 / A802 — DRAWING NUMBER; ELEVATION NUMBER
- ELEVATION KEY: 4 A802 2 3 — MULTIPLE ELEVATIONS
- ENLARGED PLAN KEY: 1 / A901 — ENLARGED PLAN NUMBER; DRAWING NUMBER
- REVISION KEY — REVISION NUMBER
- 10 — KEYNOTE INDICATOR
- 10 — WINDOW TYPE KEY
- 6A — PARTITION TYPE
- 1038 — DOOR NUMBER

FINISH PLAN NOTES

1. ALL WALLS TO BE PAINTED PT-1, U.O.N.
2. ALL FLOORING TRANSITIONS AT DOOR OPENING TO OCCUR UNDERNEATH DOOR, U.O.N.
3. FLOOR FINISHES AND WALL BASE TO CONTINUE UNDER COUNTER TOPS, ANY MILLWORK OPENINGS, AND HC KITCHEN SINK CABINETS.
4. PROVIDE TRANSITIONS STRIPS AT ALL LOCATIONS WHERE CARPET AND TILE/WOOD/SHEET FLOORING MEET. VERIFY COLOR WITH ARCHITECT PRIOR TO INSTALLATION.
5. VINYL BASE TO BE COVE AT VCT/SHEET FLOORING AREAS.
6. VERIFY FLOOR FINISH LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION. (TILE LAYOUT, SEAMING DIAGRAMS, ETC.)
7. DOORS TO BE PAINTED PT-4, FLAT, WITH SCUFFMASTER FINISH ON TOP U.O.N. FRAMES TO BE PAINTED PT-4, FLAT, WITH SCUFFMASTER FINISH ON TOP U.O.N.
8. ALL GWB SOFFITS TO BE PAINTED PT-1, U.O.N.

ABBREVIATIONS

AC – AIR CONDITIONING
AD – ACCESS DOOR
AFF – ABOVE FINISHED FLOOR
AL – ALUMINUM
APP – APPROXIMATELY
ARCH – ARCHITECTURAL

BETW – BETWEEN
BLDG – BUILDING
BO – BY OTHERS
BOT – BOTTOM
BR – BRASS
BRZ – BRONZE
BU – BUILT UP

C – COURSE
C – CENTERLINE
CAB – CABINET
CPT – CARPET
CHR – CHROME
CI – CAST IRON
℄J – CONTROL JOINT
CLG – CEILING
CLR – CLEAR(ANCE)
CMU – CONCRETE MASONRY UNITS
COL – COLUMN
COMP – COMPRESSIBLE
CONC – CONCRETE
CONT – CONTINUOUS
COP – COPPER
CT – CERAMIC TILE
CW – CURTAIN WALL

℄ – DIAMETER
DEMO – DEMOLITION
DTL – DETAIL
DIM – DIMENSION
DN – DOWN
DR – DOOR
DWG – DRAWING

E – EAST
EA – EACH
EL – ELEVATION
ELEC – ELECTRICAL
ELEV – ELEVATOR
EQ – EQUAL

ETR – EXISTING TO REMAIN
EXIST – EXISTING
EXP – EXPANSION
EXT – EXTERIOR

FD – FLOOR DRAIN
FE – FIRE EXTINGUISHER
FEC – FIRE EXTINGUISHER CABINET
FF – FABRIC FLASHING
FIN – FINISHED
FL – FLOOR
FLUOR – FLUORESCENT
FOF – FACE OF FINISH
FR – FIRE RESISTANT
FV – FIELD VERIFY

GA – GAUGE
GC – GENERAL CONTRACTOR
GL – GLASS
GR – GUESTROOM
GWB – GYPSUM WALL BOARD

HC – HANDICAPPED
HDW – HARDWARE
HT – HEIGHT
HORIZ – HORIZONTAL
HP – HIGH POINT
HVAC – HEAT, VENTILATION & A.C.

ID – INSIDE DIAMETER
INSUL – INSULATION
INT – INTERIOR

JNT – JOINT

KD – KNOCKED DOWN

L – LENGTH

LAM – LAMINATE
LAV – LAVATORY
LH – LEFT HAND
LP – LOW POINT
LR – LEATHER
LT – LIGHT

MAX – MAXIMUM
MDO – MEDIUM DENSITY OVERLAY
MECH – MECHANICAL
MFR – MANUFACTURER
MIN – MINIMUM
MS – METAL STUD
MTL – METAL

N – NORTH
NIC – NOT IN CONTRACT
NTS – NOT TO SCALE

OA – OVERALL
OC – ON CENTER
OD – OUTSIDE DIAMETER
OH – OVERHEAD
OPG – OPENING
OPP – OPPOSITE

PAR – PARALLEL
PC – PRECAST
PERF – PERFORATED
PERP – PERPENDICULAR
PLAM – PLASTIC LAMINATE
PM – PRESSED METAL
PNL – PANEL
PTD – PAINTED
PWD – PLYWOOD

R – RADIUS OR (STAIR) RISERS
RAD – RADIATOR
RCP – REFLECTED CEILING PLAN
RD – ROOF DRAIN
REINF – REINFORCING
REQD – REQUIRED
REQMTS – REQUIREMENTS
RH – RIGHT HAND
RM – ROOM
RO – ROUGH OPENING

S – SOUTH
SCR – SCREW
SECT – SECTION
SHT – SHEET
SF – SQUARE FOOT

SIM – SIMILAR
SPEC – SPECIFICATIONS
SS – STAINLESS STEEL
STD – STANDARD
STL – STEEL
STR – STRUCTURAL
SVF – SHEET VINYL FLOORING
S4S – SURFACE FOUR SIDES

T – TREADS (STAIRS)
TB – TOGGLE BOLT
TBD – TO BE DETERMINED
TEMP – TEMPERED
TEL – TELEPHONE
THK – THICK
T&G – TONGUE AND GROOVE
TO – TOP OF
TOC – TOP OF CONCRETE
TOM – TOP OF MASONRY
TOS – TOP OF STEEL
TOW – TOP OF WALL
TPH – TOILET PAPER HOLDER
TRANS – TRANSLUCENT
TYP – TYPICAL

UON – UNLESS OTHERWISE NOTED
UV – UNIT VENTILATOR

VB – VAPOR BARRIER OR VINYL BASE
VEN – VENEER
VER – VERIFY
VERT – VERTICAL
VEST – VESTIBULE
VIF – VERIFY IN FIELD
VWC – VINYL WALL COVERING

W – WEST
WC – WATER CLOSET
WD – WOOD
W/ – WITH
W/O – WITHOUT
WGL – WIRED GLASS
WP – WORKING POINT
WTH – WIDTH

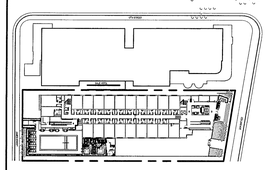
REFLECTED CEILING PLAN NOTES

1. ALL WORK TO BE NEW U.O.N.
2. ALL DOWNLIGHTS, WALLWASHERS, SMOKE DETECTORS, SPRINKLER HEADS, EXIT SIGNS, ETC. TO BE CENTERED IN CEILING TILE, U.O.N.
3. WALLWASHERS AND DOWNLIGHTS TO BE CENTERED, IN BOTH DIRECTIONS, IN ALL GWB SOFFITS, U.O.N.
4. ALL DIMENSIONS OF FIXTURES, DEVICES, SPRINKLER HEADS, ETC. ARE TO CENTERLINE OF FIXTURE, U.O.N. WHERE ITEMS ARE IN LINE, CENTERLINE OF ITEMS OR GROUP OF ITEMS TO ALIGN, U.O.N.
5. ALL MEP–FP DEVICE LOCATIONS NOT SHOWN ON DRAWINGS, OR IN CONFLICT WITH MEP–FP DRAWINGS, ARE TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
6. CONTRACTOR TO COORDINATE LOCATIONS OF ALL CEILING ELEMENTS AND PROVIDE COMPLETE COORDINATION DRAWINGS FOR THE ARCHITECT AND ENGINEER'S REVIEW FOR APPROVAL.
7. CONTRACTOR TO VERIFY ALL PENDANT FIXTURE HEIGHTS AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
8. COORDINATE CAMERA LOCATIONS, IF PRESENT, WITH FINISH WORK. SEE ACCESS CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
9. ALL EXPOSED MEP TO BE PAINTED PT–1.
10. SEE A200 DRAWINGS FOR LOCATIONS OF EXISTING SMOKE DETECTORS, SPRINKLER HEAD, EXIT SIGNS, ETC.
11. HISTORIC SOFFIT TRIM & MOLDING
    GENERAL CONTRACTOR TO OBTAIN MAXIMUM HEIGHT THROUGHOUT THE SPACE

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS		
NO.	DESCRIPTION	ISSUE DATE
1	ISSUE FOR EXTERIOR FACADE PERMIT	05.06.14
2	RESPONSE TO CMB COMMENTS	06.28.14
3	PERMIT COMMENTS	09.10.14

PERMIT SET

NORTH SEAL

9.15.14
Jonathan Cardello
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JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
SCALE: NTS

SHEET TITLE

SCHEDULES
LEGENDS AND
ABBREVIATIONS

SHEET NUMBER

G-001

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GENERAL NOTES AND SPECIFICATIONS

I. APPLICABLE CODES

1. ALL WORK AND MATERIALS SHALL CONFORM TO CURRENT CITY OF MIAMI BEACH AND MIAMI-DADE COUNTY STANDARDS AS WELL AS ALL LOCAL, STATE, AND NATIONAL CODES AND REGULATORY REQUIREMENTS, AS APPLICABLE.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL THE REQUIREMENTS OF FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, AND ALL STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.

3. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER SITE FEATURES SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SURVEY BY OTHERS.

4. EXISTING UTILITIES TO BE ADJUSTED IN ACCORDANCE WITH PROPOSED GRADES AND REQUIREMENTS OF UTILITY OWNERS, AS REQUIRED.

5. EXISTING STRUCTURES, UTILITIES AND OTHER IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, TREES SUCH AS BUILDING SEWERS, DRAINS, WATER OR GAS PIPES, CONDUITS, POLES, WALLS, COLUMNS, ETC., WHETHER OR NOT SHOWN ON THE PLANS, ARE TO BE CAREFULLY PROTECTED FROM DAMAGE. IF DAMAGE OCCURS FROM WORK PERFORMED UNDER THIS CONTRACT, THE CONTRACTOR SHALL PROMPTLY REPAIR THE DAMAGED ITEM(S) TO THE CONDITION OF THE ITEM(S) PRIOR TO THE DAMAGE. THIS WORK SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

6. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.

7. CONTRACTOR SHALL PRESERVE ALL STREET SIGNS, PARKING METERS, BENCHES, TRAFFIC CONTROL SIGNS, ETC. WHEN DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REINSTALL OR DELIVER SAID PUBLIC PROPERTY TO THE COUNTY YARD.

8. THE CONTRACTOR SHALL COORDINATE HIS/HERS WORK WITH ANY OTHER UTILITY AND BUILDING TRADES WORKING ON THIS OR ADJACENT PROJECT.

9. ALL DITCH EXCAVATION SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE FLORIDA TRENCH SAFETY ACT.

10. THE CONTRACTOR SHALL TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, EITHER PUBLIC OR PRIVATE, DURING EXCAVATION OF SUBSOIL MATERIAL OR DURING THE FILLING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

II. PRECONSTRUCTION RESPONSIBILITIES

1. THE INFORMATION PROVIDED IN THESE PLANS IS TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT ANY INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED AND UPON WHICH THEIR BIDS WILL BE BASED.

2. 48 HOURS BEFORE BEGINNING CONSTRUCTION IN THE AREA, THE CONTRACTOR SHALL NOTIFY SUNSHINE STATE CALL ONE OF FLORIDA, INC. AT 1-800-432-4770 AND ANY OTHER UTILITIES WHICH MIGHT BE AFFECTED.

3. UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND ARRANGE A PRECONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER, AND THE ENGINEER OF RECORD.

4. THE CONTRACTOR SHALL APPLY FOR AND PROCURE ALL PERMITS AND LICENSES, PAY ALL CHARGES, TAXES, ROYALTIES & FEES, AND GIVE ALL NOTICES NECESSARY TO COMPLETE THIS PROJECT. (WITH THE EXCEPTION OF DRAINAGE AND WATER & SEWER APPROVALS FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND FDOT WHICH WILL BE OBTAINED BY THE ENGINNEER OF RECORD.)

5. THE CONTRACTORS SHALL COORDINATE WITH UTILITY COMPANIES TO ARRANGE FOR ANY REMOVAL, RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK, IF APPLICABLE.

6. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING UTILITIES TO BE CONNECTED SUFFICIENTLY AHEAD OF CONSTRUCTION TO ALLOW REDESIGN BY THE ENGINEER IF SUCH UTILITIES ARE FOUND TO BE DIFFERENT THAN THOSE SHOWN ON PLANS.

III. INSPECTION AND TESTING

THE ENGINEER SHALL REQUIRE A COLOR T.V. SURVEY AND SHALL REQUIRE AN EXFILTRATION/INFILTRATION TEST PRIOR TO ACCEPTANCE. THE SURVEY AND TESTING SHALL BE AT THE CONTRACTOR'S EXPENSE.

INSPECTIONS:
THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS:

1.) STORM DRAINAGE
2.) SANITARY SEWER
3.) WATER SYSTEM SUBGRADE – SUBMIT AND HAVE APPROVED DENSITIES PRIOR TO PLACEMENT OF ROCK.
4.) LIMEROCK BASE – SUBMIT AND HAVE APPROVED DENSITIES AND AS-BUILTS PRIOR TO THE PLACEMENT OF ANY ASPHALT.
5.) ASPHALTIC CONCRETE
6.) FINAL WALK-TRROUGH INSPECTION
7.) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL APPLICABLE REGULATORY AGENCIES FOR INSPECTION REQUIREMENTS.

IV. SHOP DRAWINGS

1. PRIOR TO CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD FOR THE FOLLOWING ITEMS: WATER/SEWER MAIN PIPING AND ASSOCIATED FITTINGS, CATCH BASINS AND ALL OTHER DRAINAGE STRUCTURES, DRAINAGE PIPE, BALLAST ROCK, EXFILTRATION TRENCH FILTER FABRIC. IN ADDITION, SOME CITIES, COUNTIES, STATE AND/OR NATIONAL REGULATORY AGENCIES REQUIRE THEIR OWN INDIVIDUAL REVIEW AND APPROVAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY SHOP DRAWING APPROVALS IF REQUIRED.

V. TEMPORARY FACILITIES

1. TEMPORARY FACILITIES

A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY, DURING CONSTRUCTION.

B. THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS ENTRANCE TO COMMERCIAL PROPERTIES AT ALL TIMES, IF APPLICABLE.

C. THE CONTRACTOR SHALL MAINTAIN A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION, IF APPLICABLE.

2. TRAFFIC REGULATION

A. THE CONTRACTOR SHALL PROVIDE ALL WARNING SIGNALS, SIGNS, LIGHTS AND FLAG PERSONS AS NECESSARY FOR THE MAINTENANCE OF TRAFFIC WITHIN PUBLIC RIGHT-OF-WAYS IN ACCORDANCE WITH M.U.T.C.D. AND FDOT.

B. ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.

C. NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT THE EXPRESS PERMISSION OF THE CITY OF MIAMI BEACH PUBLIC WORKS DEPARTMENT.

VI. PROJECT CLOSE OUT:

1. CLEANING UP

A. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEANUP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEPT BROOM CLEAN.

B. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS/HER WORK, EQUIPMENT AND/OR EMPLOYEES TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS.

C. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, CURBS, DRIVEWAYS, SIDEWALKS, FENCES, MAILBOXES, SIGNS AND ANY OTHER IMPROVEMENTS REMOVED DURING CONSTRUCTION WITH THE SAME TYPE OF MATERIAL AND TO THE CONDITION WHICH EXISTED PRIOR TO THE BEGINNING OF OPERATIONS.

D. WHERE MATERIAL OR DEBRIS HAVE WASHED OR FLOWED INTO, OR HAVE BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.

E.. ALL DISPOSAL OF EXCESS AND UNSUITABLE EXCAVATED MATERIAL, DEMOLITION, VEGETATION, RUBBISH AND DEBRIS SHALL BE MADE OUTSIDE THE LIMITS OF CONSTRUCTION AT A LEGAL DISPOSAL SITE PROVIDED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE, WITH THE PRIOR APPROVAL OF THE ENGINEER. MATERIAL CLEARED FROM THE SITE SHALL NOT BE DEPOSITED ON ADJACENT AND/OR NEARBY PROPERTY.

2. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

3. PROJECT RECORD DOCUMENTS

A. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.

B. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH AS-BUILT GRADES AND LOCATIONS OF FINISHED PAVEMENT, SIDEWALKS, CURBS, AND ALL PHYSICAL IMPROVEMENTS. SUCH GRADES SHALL BE OBTAINED BY A LICENSED SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF FLORIDA, AND SHALL DOCUMENT THE INTENT OF THE PROPOSED GRADES SHOWN ON THE PLANS. THIS SHALL BE DONE AT NO COST TO THE OWNER.

4. CONTRACTOR TO REPLACE ALL FOUND PIPES WITH NAIL AND DISKS.

VII. STORM DRAINAGE

GENERAL

1. THE TRENCH FILTER FABRIC SHALL BE SELECTED FROM THE MANUFACTURERS AND FABRIC TYPES APPROVED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT. IT SHALL BE USED TO WRAP ALL SIDES, BOTTOM AND TOP OF THE EXFILTRATION TRENCH. THE TOP SECTION OF THE MATERIAL SHALL BE LAPPED A MINIMUM OF 12 INCHES AND THE CONTRACTOR SHALL TAKE EXTREME CARE IN BACKFILLING TO AVOID BUNCHING OF THE FABRIC.

2. SOLID AND PERFORATED STORM DRAINAGE PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE (H.D.P.E.) SELECTED FROM THE MANUFACTURES AND TYPES APPROVED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT. PERFORATED PIPE SHALL TERMINATE 4'-0" FROM THE DRAINAGE STRUCTURE. THE REMAINING 4'-0" SHALL BE NON-PERFORATED PIPE.

3. PROVIDE A MINIMUM PROTECTIVE COVER OF 24 INCHES OVER STORM SEWER AND AVOID UNNECCSSARY CROSSING BY HEAVY CONSTRUCTION VEHICLES DURING CONSTRUCTION.

4. THE CONTRACTOR SHALL PROTECT COMPLETED DRAINAGE STRUCTURES AND EXFILTRATION TRENCH SYSTEMS FROM CONTAMINATION OF SILT AND CONSTRUCTION DEBRIS. PLACE PLYWOOD ON, OR FILTER FABRIC BETWEEN, THE FRAME AND INLET GRATE UNTIL CONSTRUCTION OPERATIONS ARE FINISHED.

VII. PAVING

1. GENERAL

A. ALL UNDERGROUND UTILITIES SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF LIMEROCK BASE.

B. ALL EXISTING PAVEMENT, CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT THE CONTRACTOR'S EXPENSE.

C. WHERE ANY PROPOSED PAVEMENT IS TO BE CONNECTED TO EXISTING PAVEMENT, THE EXISTING EDGE OF PAVEMENT SHALL BE SAW CUT.

D. PROPOSED ASPHALT PAVEMENT SHALL BE CONNECTED TO EXISTING AS PER CITY OF MIAMI BEACH STANDARD DETAILS. CONTRACTOR SHALL MATCH EXISTING ELEVATIONS ON NEW SIDEWALK OR NEW PAVEMENT.

E. CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING CONC. CURB, CURB & GUTTER, SIDEWALK AND ASPHALT WHERE NEW SIDEWALK, CURB & GUTTER AND MEDIAN IS PROPOSED TO BE CONSTRUCTED.

F. NONE OF THE EXISTING LIMEROCK BASE THAT IS REMOVED IS TO BE INCORPORATED INTO THE PROPOSED LIMEROCK BASE.

G. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY, CERTIFIED BY THE STATE OF FLORIDA, WHERE DIRECTED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT INSPECTOR OR THE GEOTECHNICAL ENGINEER.

VIII. PAVEMENT MARKINGS AND TRAFFIC SIGNS

1. PAVEMENT MARKINGS

A. INSTALLATION OF ALL PAVEMENT MARKINGS SHALL BE MADE IN ACCORDANCE WITH FDOT STANDARDS.

B. MATERIALS: (1) WHERE THE PLANS CALL FOR PAINTED PAVEMENT MARKINGS (P), INSTALLATION AND MATERIALS SHALL MEET ALL REQUIREMENTS OF SECTION 710 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. (2) WHERE THE PLANS CALL FOR THERMOPLASTIC PAVEMENT MARKINGS (T), INSTALLATION AND MATERIALS SHALL MEET ALL REQUIREMENTS OF SECTION 710 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

C. PROTECTION: THE CONTRACTOR SHALL NOT ALLOW TRAFFIC ONTO NEWLY APPLIED PAVEMENT STRIPING/MARKINGS UNTIL THEY ARE SUFFICIENTLY DRY TO PERMIT VEHICLES TO CROSS THEM WITHOUT DAMAGE. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REMOVE AND REPLACE ANY PORTION OF THE PAVEMENT STRIPING/MARKINGS DAMAGED BY PASSING TRAFFIC OR FROM ANY OTHER CAUSE.

2. TRAFFIC SIGNS

A. INSTALLATION: TRAFFIC SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), PART II, IN LOCATIONS SHOWN ON PLANS.

B. MATERIALS: FOLLOW SECTION NO. 700, HIGHWAY SIGNING, OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND M.U.T.C.D.

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

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No.	Date	Revision Description

GENERAL NOTES AND SPECIFICATIONS

SAN JUAN HOTEL
1680 COLLINS AVENUE
MIAMI BEACH, FLORIDA 33139

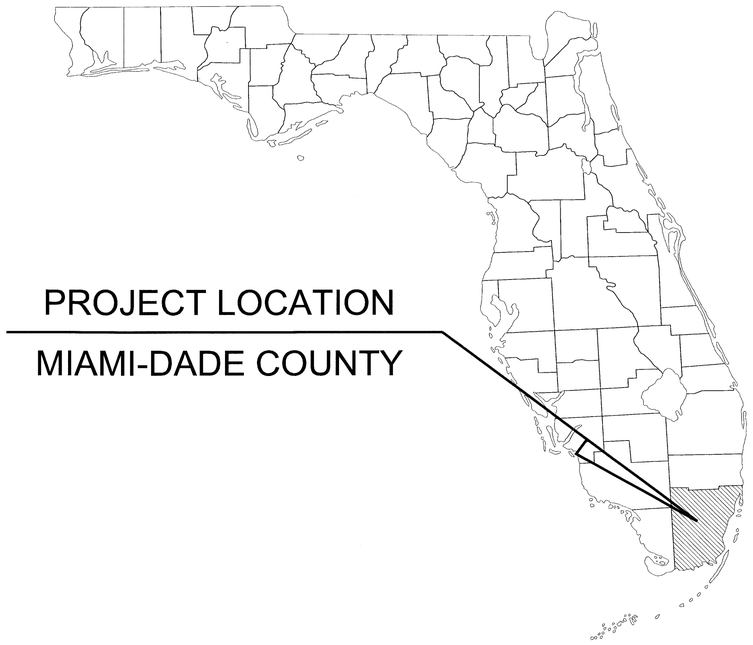
ENGINEER OF RECORD
4/4/14
WALTER M. LUGO, P.E.
FLORIDA PE LIC. No. 61747

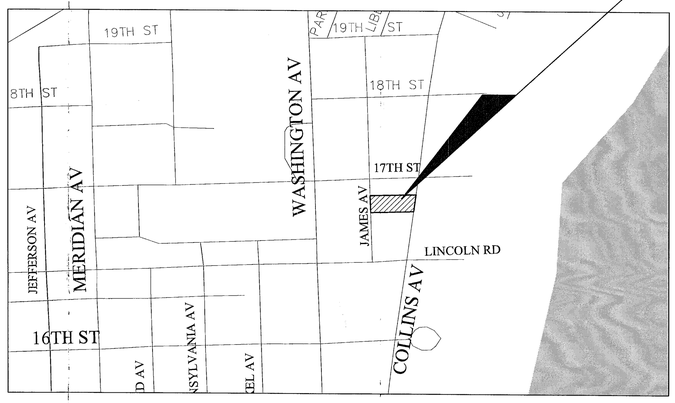
OCEAN ENGINEERING, INC.
333 NE 24th Street, Suite 404, Miami, FL 33137
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www.oceaneng.com
Certificate of Authorization: 28490

Date: 04/05/14
Scale:
Designed By: W.M.L
Drawn By: L.K.
Checked By: W.M.L
CAD File:
Project No.: 2013-0328-05
Dwg. No.:
Sheet: C100

SAN JUAN HOTEL

1680 COLLINS AVENUE
MIAMI BEACH, FLORIDA 33139
APRIL 2014





LOCATION MAP

SCALE 1" = 500'

SHEET INDEX

CS	COVER SHEET
C100	GENERAL NOTES AND SPECIFICATIONS
C200	DRAINAGE PLAN

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

MIAMI BEACH FIRE DEPARTMENT

No.	Date	Revision Description

COVER SHEET
SAN JUAN HOTEL
1680 COLLINS AVENUE
MIAMI BEACH, FLORIDA 33139

ENGINEER OF RECORD
4/9/14
WALTER N. LUGO, P.E.
FLORIDA PE I.C. No. 61747

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Certificate of Authorization: 28480

Date: 04/05/14
Scale:
Designed By: W.M.L
Drawn By: L.K.
Checked By: W.M.L
CAD File:
Project No.: 2013-0328-05
Dwg. No.:
Sheet: CS

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ALT. TRANS. SECTION*
N.T.S.

*MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL, OR WHERE CAVE-IN BELOW THE WATER TABLE IS LIKELY TO OCCUR. TO BE USED AT THE ENGINEER'S DISCRETION.

TRANSVERSE SECTION
N.T.S.

17TH STREET

EXIST. BUILDING

EXIST. BLDG
(SAN JUAN HOTEL)

JAMES AVENUE

COLLINS AVENUE

R/W

PL

STORM INLET#2
RIM EL. 6.10'
INV. EL. 2.50' (S) PRB

25LF OF PROP. 15"ø
HDPE EXFIL. TRENCH

EXIST. ASPHALT
PARKING LOT

STORM INLET#1
RIM EL. 6.20'
INV. EL. 2.50' (N)(S) PRB

PROP. 12"ø SOLID
STORM PIPE

SEE MEP PLANS
FOR CONTINUATION

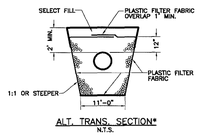
RENOVATED POOL DECK AND PROP.
GARDEN AREA (REFER TO ARCH & MEP
PLANS FOR DETAILS)

EXIST. EDGE OF
PAVEMENT

EXIST. CURB &
GUTTER

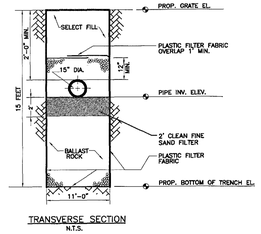
8.3'

GRAPHIC SCALE
0 5 10 20
(IN FEET)
1" = 10'

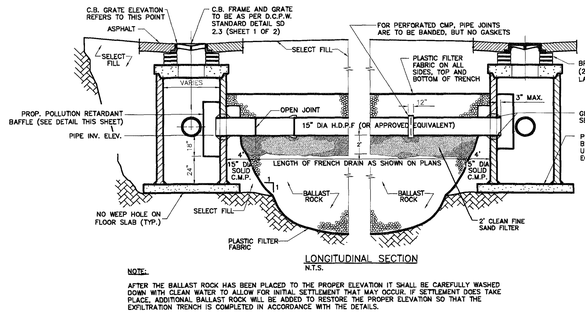


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TRANSVERSE SECTION
N.T.S.

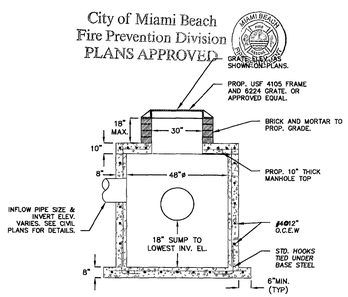


LONGITUDINAL SECTION
N.T.S.

NOTE:
AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION IF SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF SETTLEMENT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE PROPER ELEVATION SO THAT THE EXFILTRATION TRENCH IS COMPLETED IN ACCORDANCE WITH THE DETAILS.

TYPICAL CATCH BASIN AND EXFILTRATION TRENCH DETAIL
W/ 2' DEEP SAND FILTER.

City of Miami Beach
Fire Prevention Division
PLANS APPROVED



S-1 / S-2 PRECAST
CONCRETE CATCH BASIN

NOTES:

1. REFER TO CITY OF MIAMI BEACH DETAIL SD-1 & SD-2 FOR ADDITIONAL INFORMATION.

LEGEND:

- R/W — — PL — R/W LINE / PROPERTY LINE
- —— ℄ —— CENTER LINE
- ========== EXISTING CURBING
- × 8.42 EXISTING ELEVATIONS (NGVD)
- PROP. EXFILTRATION TRENCH

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No.	Date	Revision Description
1	7/7/2014	DERM COMMENTS

DRAINAGE PLAN
SAN JUAN HOTEL
1680 COLLINS AVENUE
MIAMI BEACH, FLORIDA 33139

ENGINEER OF RECORD
7/8/14
WALTER M. LUGO, P.E.
FLORIDA PE LIC. No. 61747

OCEAN ENGINEERING, INC.
333 NE 24th Street, Suite 406, Miami, FL 33137.
Phone: 786-315-2232 Fax: 786-476-8250
www.oceaneng.com
Certificate of Authorization: 29480

Date:	04/05/14
Scale:	AS SHOWN
Designed By:	W.M.L
Drawn By:	L.K.
Checked By:	W.M.L
CAD File:	PG&D PLAN
Project No.:	2013-0328-05
Dwg. No.:	
Sheet:	C200

GENERAL NOTES

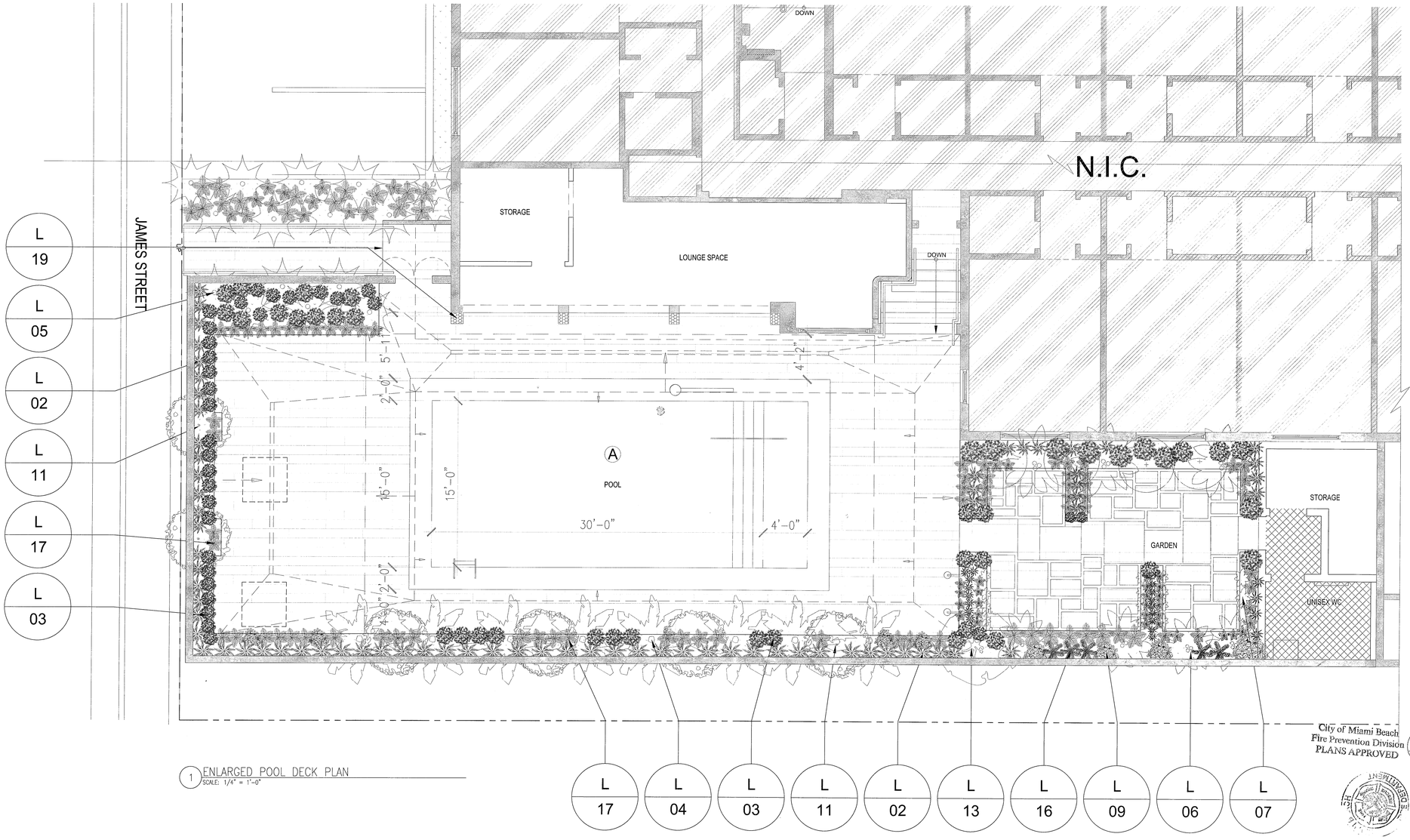
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22. POOL DWG's INCLUDED FOR REFERENCE. POOL TO BE PERMITTED SEPARATELY.
23. HARDSCAPE TO BE LEVEL AND SLIP-RESTANT PER THE FFPC 2010 CHAPTER 7.

SHEET NOTES

A. NEW INFINITY POOL WITH SLOT OVERFLOW FLUSH WITH POOL DECK - REFER TO AQUADYNAMICS PLANS FOR DETAILS
B. LANDSCAPING - REFER TO LANDSCAPE PLAN SHEET LP-1
C. DRYWALL
D. PAINT STAIRS
E. REFINISH ELEVATOR

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- N.I.C. SHADING
- EXISTING STRUCTURE
- CMB CEILING/SOFFIT
- EXISTING DOOR TO REMAIN
- DOOR NUMBER NEW DOOR
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- DETAIL REFERENCE
- F.S. FLOOR SINK
- FD - FLOOR DRAIN
- W - WASTE OUTLET
- TD - TRENCH DRAIN
- LEVEL CHANGE
- (1) STUD PARTITION
- (2) NEW CMU WALL

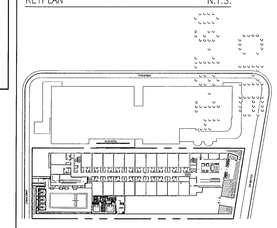


1 ENLARGED POOL DECK PLAN
SCALE: 1/4" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE
1	ISSUE FOR EXTERIOR FACADE PERMIT	05.06.14
2	RESPONSE TO CMB COMMENTS	06.28.14
3	PERMIT COMMENTS	09.10.14

PERMIT SET

NORTH SEAL

4-15-14
Jonathan Cardello
Lic. # AR93391

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Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
SCALE: 1/8" = 1'-0"

SHEET TITLE

POOL DECK PAVING PLAN

SHEET NUMBER

LH-1

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GENERAL NOTES

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SH

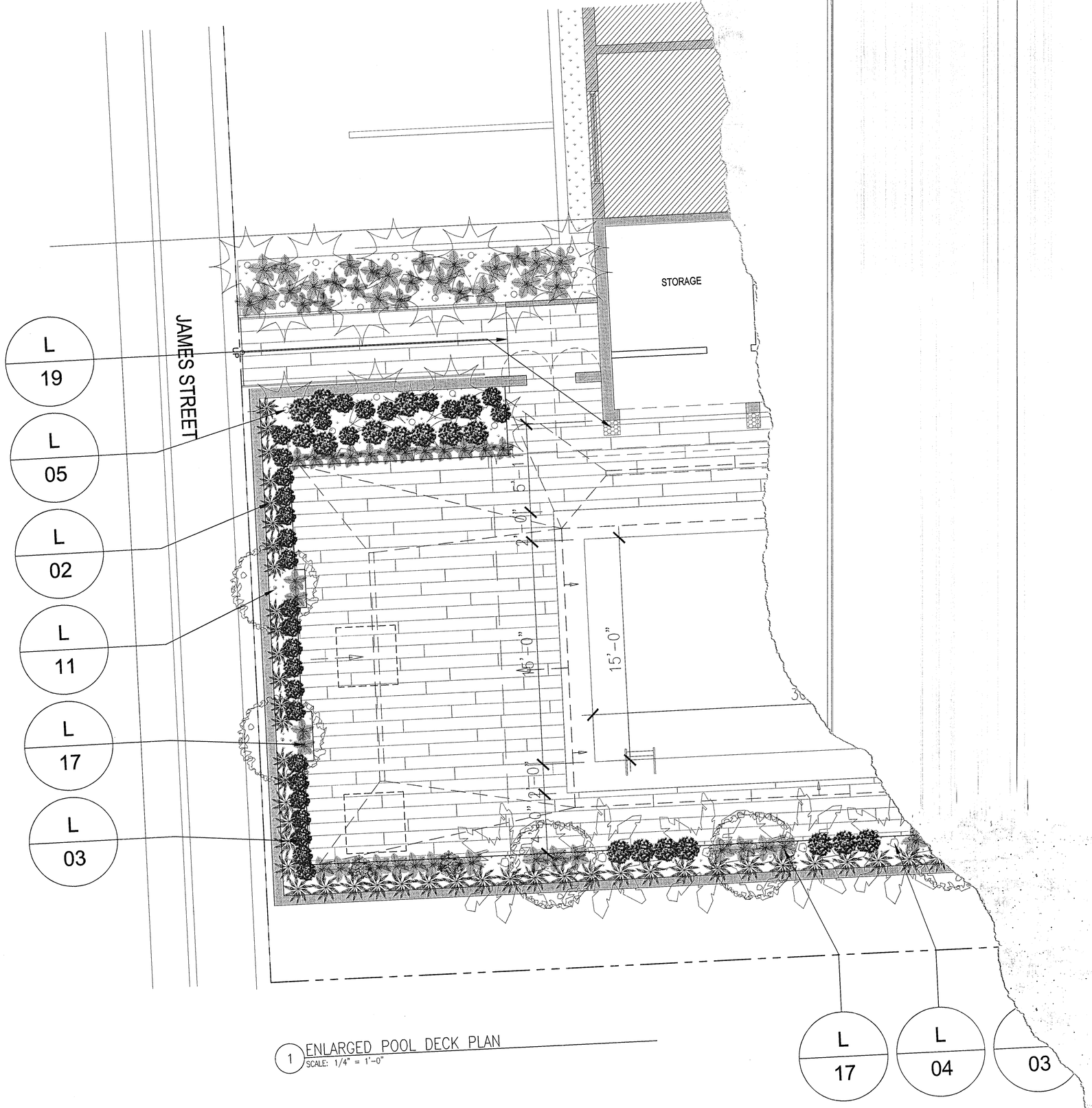
A

B

C D

D

E



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

GENERAL NOTES

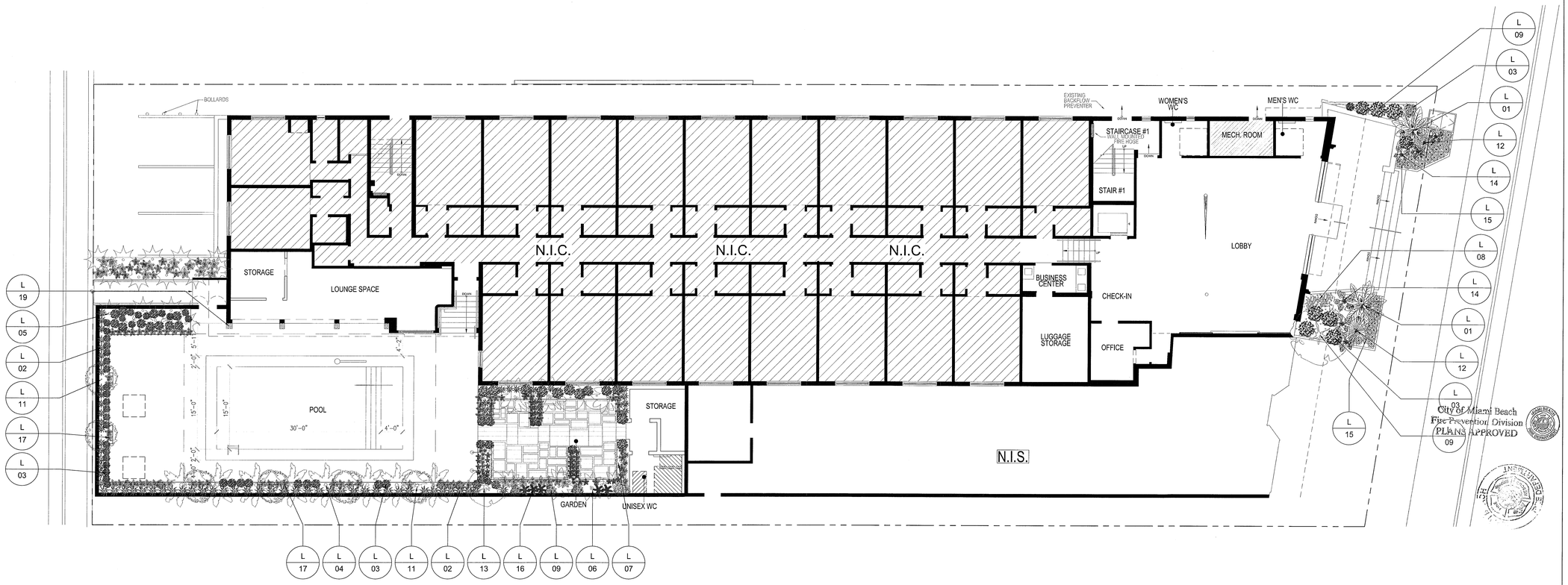
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SHEET NOTES

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- N.I.C. SHADING
- EXISTING STRUCTURE
- GWB CEILING/SOFFIT
- EXISTING DOOR TO REMAIN
- DOOR NUMBER NEW DOOR
- ELEVATION REFERENCE
- DETAIL REFERENCE
- F.S. FLOOR SINK
- FD.-FLOOR DRAIN
- W.-WASTE OUTLET
- TD – TRENCH DRAIN
- LEVEL CHANGE
- 1 — STUD PARTITION
- 2 — NEW CMU WALL

TREE SCHEDULE					
TAG	DESCRIPTION	#	TYPE	SUPPLIER	CONTACT
L-01	CARYOTA MITIS	20	6' OA		
L-02	CARYOTA MITIS	20	12' OA		
L-03	RHAPIS EXCELSA	20	4' OA		
L-04	DWARF COCONUT PALM	5	8' WOOD		
L-05	ALEXANDER PALM	15	18' OA		
L-06	VEITCHIA MONTGOMERYANA	26	(QTY14: 4' OA)	, (QT 12: 18' OA)	
L-07	HELICONIA CARIBBEA	6	7 GALLON		
L-08	SCHIZOSTACHYUM BRACHYCLADUM-YELLOW BAMBOO	1	15' GALLON		
L-09	MUSSAENDA	5	5' TALL PLANT		
L-10	MICHELLIA CHAMPACA	2	10' TALL PLANT		
L-11	YLANG YLANG	6	6' OA		
L-12	DIOON MEJIAE CYCIAD	4	7 GALLON		
L-13	BULNESIA ARBOREA	1	24' OA SPECIMEN		
L-14	MONSTERA DELICIOSA	50	1 GALLON		
L-15	MISCELLNEOUS BROMELIADS	34	2 GALLON		
L-16	DYPSIS LUTESCENS	8	8' OA		
L-18	FICUS PUMILA	10			
L-19	CONFEDERATE JASMINE	4			
20 (40 POUND) GREY GRADE A BEACH PEBBLE MEDIUM (2"-3")					
NOTE: ANGLE COCONUT PALM AND VEITCHIA PALMS OUT AT ANGLE TOWARDS POOL ARCHITECT TO APPROVE PLANT SELECTIONS AND BE ON SITE FOR INSTALLATION LOCATIONS					

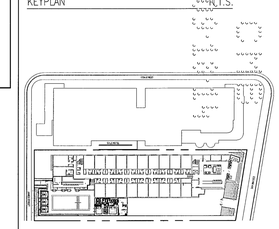


1 LANDSCAPE PLAN
SCALE: 1/8" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
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PERMIT SET

NORTH SEAL

9-15-14
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Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
SCALE: 1/8" = 1'-0"

SHEET TITLE

GROUND FLOOR PLANTING AND LIGHTING PLAN

SHEET NUMBER

LP-1

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GENERAL NOTES

1 NOTIFY THE ARCHITECT OF ANY UNEXPECTED FIELD CONDITION OR ANY DISCREPANCY BEFORE PROCEEDING. GENERAL CONTRACTOR IS TO COORDINATE THE COMPLETE SCOPE OF WORK WITH CONSTRUCTION DOCUMENTS.

2 PROVIDE TEMPORARY SECURE ACCESS TO SPACE THROUGH CONSTRUCTION AND TEMPORARY LIGHT & POWER.

3 PROVIDE STRICT CONTROL OF JOB CLEANING AND PREVENT DUST AND DEBRIS FROM EMANATING FROM CONSTRUCTION AREA. GENERAL CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF TRASH AND DEBRIS DURING CONSTRUCTION.

4 CAP AND SHUT OFF ALL UNUSED UTILITIES PER CITY AND STATE REQUIREMENTS, WHERE REQUIRED.

5 PROVIDE TEMPORARY FIRE / SAFETY DEVICES THROUGHOUT CONSTRUCTION. SECURE DEVICES AS NECESSARY.

6 PROTECT ALL BASE BUILDING SERVICES, TYPICAL.

7 ALL REQUIREMENTS FOR FIRE RATINGS TO BE MAINTAINED DURING CONSTRUCTION.

8 THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID, ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITION OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. ABSOLUTELY NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BLDG.

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11 ELECTRICAL DEVICES SHALL BE TERMINATED IN A SAFE AND PROPER METHOD BY A LICENSED PROFESSIONAL.

12 ALL WORK SHALL CONFORM WITH ALL APPLICABLE CITY, STATE, AND FEDERAL CODES AND REGULATIONS.

13 ARCHITECT TO REVIEW WALL LAYOUTS PRIOR TO CONSTRUCTION.

14 EXTREME CARE SHALL BE EXERCISED IN CUTTING, DRILLING, ANCHORING, ETC. TO THE EXISTING STRUCTURE. IF ANY DETERIORATION, OR DAMAGE TO THE EXISTING STRUCTURE OCCURS DURING CONSTRUCTION, IT SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ARCHITECT.

15 REFER TO ENGINEERING DRAWINGS FOR ALL POWER, DATA, MECHANICAL, PLUMBING, & SECURITY REQUIREMENTS, LOCATIONS, AND SPECIFICATIONS. GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DOCUMENTS, AND TO NOTIFY ARCHITECT OF ANY DISCREPANCIES / CONFLICTS.

16 REFER TO STRUCTURAL DRAWINGS FOR ALL SLAB THICKNESS VARIANCES, TRANSFER BEAM LOCATIONS, AND OTHER STRUCTURAL SPECIFICATIONS. GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DOCUMENTS, AND TO NOTIFY ARCHITECT OF ANY DISCREPANCIES / CONFLICTS.

17 ANY NECESSARY FIRE EXTINGUISHERS ARE TO BE LOCAT... RECESSED CABINETS WITH DOORS. COORDINATE L... WITH ARCHITECT.

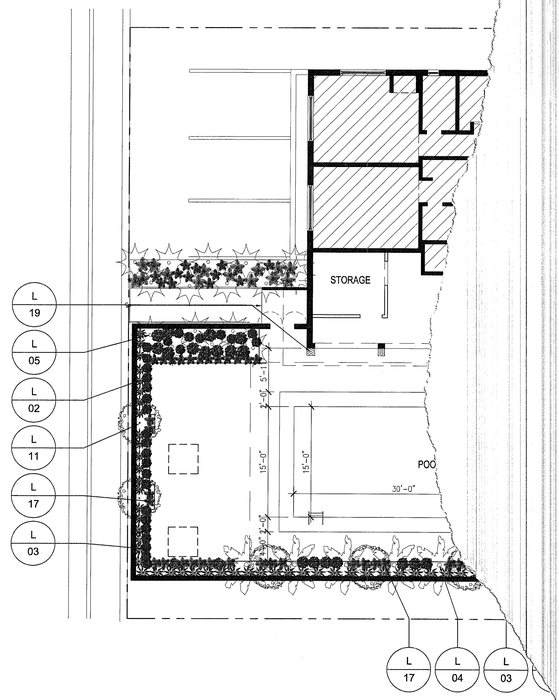
18 ALL EXISTING EXPOSED CMU BLOCK AND FLOORS) TO BE PATCHED, R... NEW ANTI-CRACKING SUBSTRATE.

19 ELECTRICAL OUTLETS ARE SH... REFERENCE, IF REQUIRED UNDER SEPARATE PERM...

20 ALL LANDSCAPE MAT... LANDSCAPE UNDER...

21. ALL ELECTRICAL... LEVELS

22. POOL DRAI... PERMITTED



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

GENERAL DEMOLITION NOTES

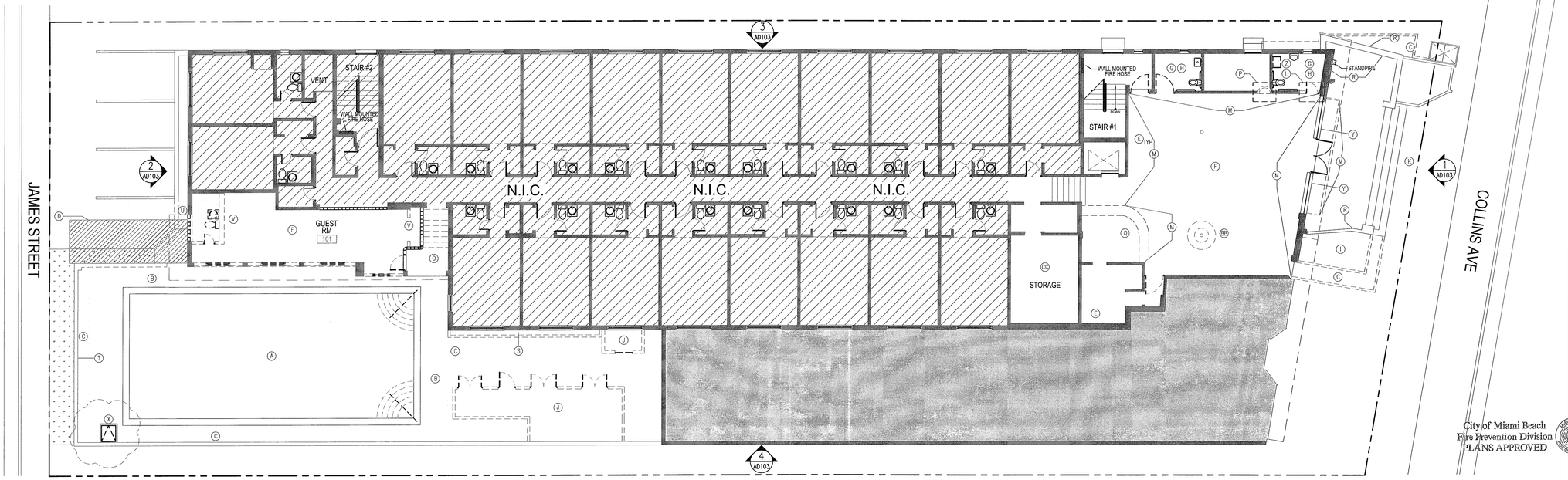
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16. REMOVE ALL MISC. UNUSED CLIPS, ANCHORS, ETC FROM MASONRY, WALLS, COLUMNS, BEAMS & DECKS.
17. WHERE APPLICABLE, CUT AND CAP EXISTING GREASE TRAP LINES BELOW EXISTING SLAB. ENSURE LOCATION OF CUT IN RELATION TO FITTING IS ADEQUATE FOR FUTURE CONNECTION AND EXTENSION. REFER TO MEP DRAWINGS FOR LOCATIONS.
18. WHERE APPLICABLE, SAW CUT EXISTING SLAB TO PROVIDE FOR ROUTING OF NEW SANITARY PIPE, G.C. TO LAYOUT ROUTING OF ALL PIPING PRIOR TO CUTTING AND X-RAY SLAB TO ENSURE NO ELECTRICAL, PLUMBING OR FIRE LINES ARE DISRUPTED. SEE MEP DRAWINGS FOR LOCATIONS, SPLICING REQUIREMENTS, AND WATERPROOFING DETAILS.
19. SEE PLAN FOR EXISTING DRYWALL / MASONRY AREAS TO BE DEMOLISHED.
20. SEE PLAN FOR EXISTING INTERIOR SUPPORT COLUMNS TO BE DEMOLISHED. INTERIOR COLUMN FOOTING TO BE REMOVED AS WELL. REMOVE EXISTING ATTACHED FLOOR LEVELS TO BE REBUILT AT SPECIFIED HEIGHT UNDER NEW WORK. SUPPORT EXTERIOR WALLS PER APPROVED BRACING PLANS.
21. UNLESS NOTED OTHERWISE, ALL INTERIOR STRUCTURES TO BE DEMOLISHED, INCLUDING COLUMNS, BEAMS, CEILING, ROOF, AND EXISTING MEP STRUCTURES NOT BEING REUSED REFER TO MEP DRAWINGS FOR NEW LOCATIONS.
22. G.C. TO PHOTO DOCUMENT ALL HISTORIC CONDITIONS, FLOOR PATTERNS, AND CEILING CONDITIONS PRIOR TO DEMOLITION.
23. REMOVE ALL EXTERIOR CONDUIT, OR SERVICE FENESTRATION (HOSE BIBS, LIGHT, HVAC, ETC) AND PATCH WALL TO ADJACENT SURFACE.
24. PATCH AND REPAIR AREAS IN CEILING, WALLS, AND FLOORS WITH MOLD, MILDEW, AND ROT, TYP.
25. FIRE/SMOKE RATING INTEGRITY BETWEEN FLOORS SHALL BE MAINTAINED DURING DEMO.

SHEET NOTES

A. POOL AREA TO BE FILLED IN WITH SMALLER INFINITY POOL SEE POOL DRAWINGS
B. DEMOLISH ALL POOL DECKING MATERIAL, SURFACE TO RECEIVE NEW DECKING MATERIAL
C. DREDGE AREA OF NEW LANDSCAPE AND PREPARE FOR NEW SOIL AND PLANTING MATERIAL
D. REMOVE PARKING SPOT, PREPARE FOR NEW SOIL AND PLANTING AS DRAWN
E. NOT USED
F. REMOVE ALL LIGHTING FIXTURES
G. REMOVE ALL FINISHES AND FIXTURES
H. ALL TILE TO BE DEMOLISHED
I. DEMOLISH PLANTING AREA, REPLACE WITH NEW SOIL AND PLANTING MATERIAL
J. REMOVE ENTIRE STRUCTURE IN TOTALITY
K. DEMOLISH AWNING
L. REMOVE DOOR AND WIDEN OPENING
M. RE STUCCO ENTIRE HISTORIC SOFFIT TO GET NEW AND SMOOTH FINISH. REPLACE LIGHTING WITH TINGLI TAPE LIGHT 2700K TEMP. SEE SHEET A191
N. NOT USED
O. ALL LIFE SAFETY SYSTEMS SHALL REMAIN ACTIVE DURING DEMO
P. REMOVE WATER FOUNTAIN
Q. REMOVE DESK AND CLEAR LOW CEILING HEIGHT UP TO HISTORIC SOFFIT SURROUND.
R. REMOVE STONE SIDING
S. REMOVE EXISTING PLANTER
T. WALL TO BE REMOVED AND NEW WALL ERECTED ON EDGE OF PROPERTY; REFER TO GROUND FLOOR PLAN
U. PLANTER TO BE PARTIALLY DEMOLISHED TO LOCATION OF NEW ENTRY, SEE SHEET A112
V. REMOVE WALLS AND RECONFIGURE SPACE, LIGHTS, ELECTRICAL OUTLETS
W. NOT USED
X. EXISTING POOL EQUIPMENT HATCH, COORDINATE WITH POOL SUB-CONTRACTOR FOR NEW POOL EQUIPMENT LOCATION
Y. REMOVE EXISTING FACADE LIGHTING FIXTURES AND PATCH AS NEEDED
Z. REMOVE MOP SINK AND URINAL, AND CAP URINAL
AA. DEMOLISH ALL DRAPERIES AND VALENCES AND PATCH ALL WALLS IN GUESTROOMS
BB. REMOVE DISKS ON CEILING ON SOUTH COLUMN IN LOBBY
CC. REMOVE ALL SHELVES IN EXISTING STORAGE ROOM

LEGEND

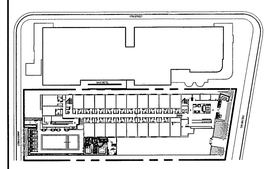
- PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING BLOCK WALL TO REMAIN
- NEW PARTITION
- NEW PLANTER LOCATION
- N.I.C. SHADING
- EXISTING STRUCTURE
- EXISTING DOOR TO REMAIN
- DOOR TO BE REMOVED
- KEYNOTE INDICATOR
- EXISTING OUTLET – VOICE/DATA
- EXISTING SWITCH
- EXISTING POWER OUTLET
- EXISTING VOICE/DATA OUTLET
- EXISTING THERMOSTAT
- EXISTING FIRE STROBE
- EXISTING FIRE EXTINGUISHER CABINET
- RELOCATED THERMOSTAT
- NEW POWER OUTLET
- RELOCATED SWITCH



1 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



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10/6/17
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CHECKED BY:
ISSUE DATE: JUNE 26, 2014
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City of Miami Beach
Fire Prevention Division
PLANS APPROVED

FIRST FLOOR DEMOLITION PLAN

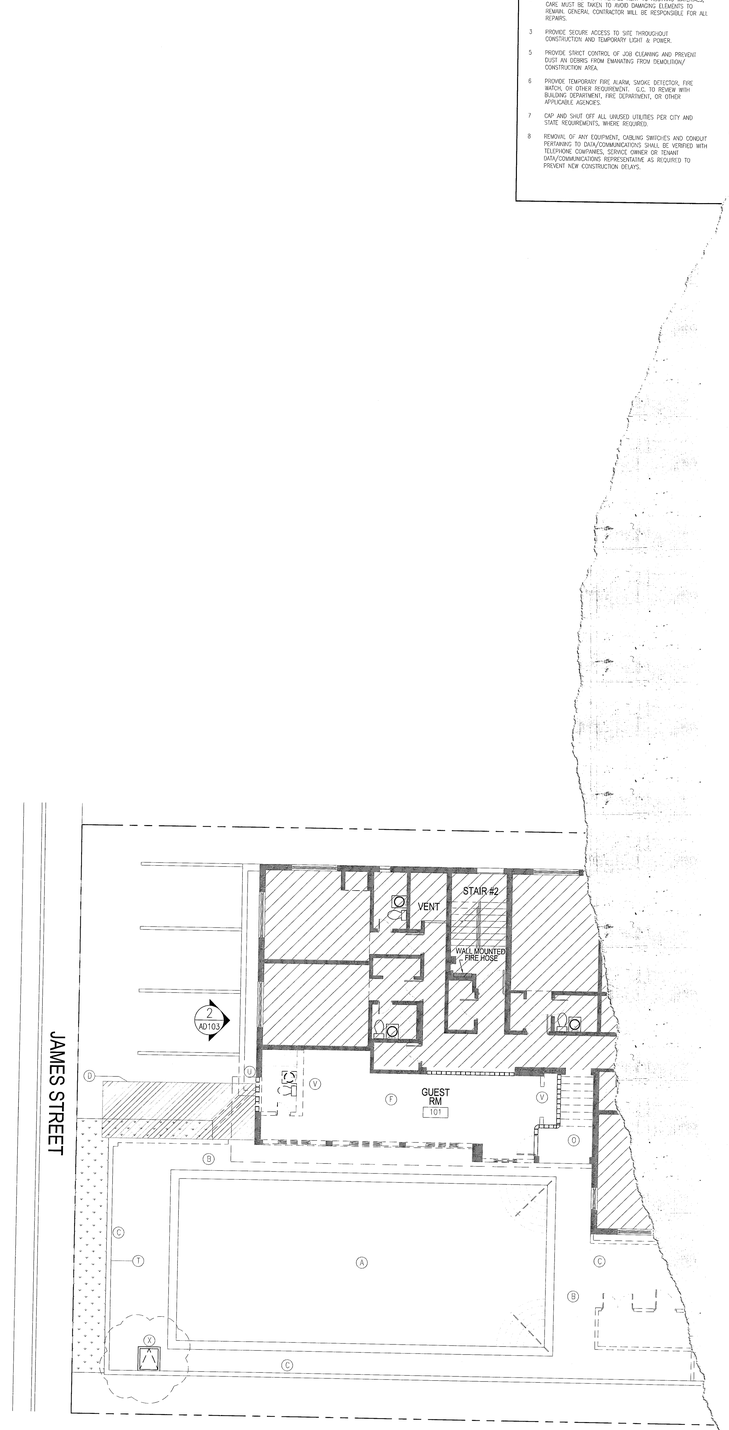
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AD101

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13. ALL REMOVED UNLESS OTHERWISE



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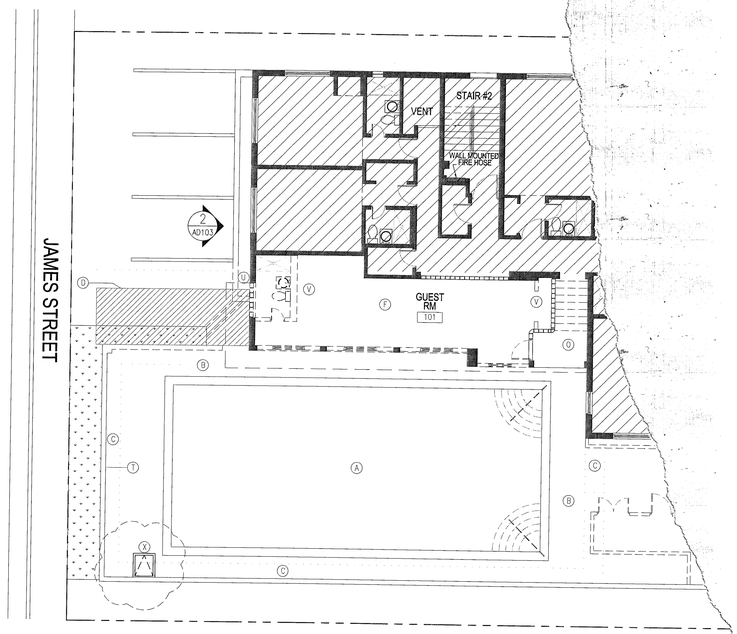
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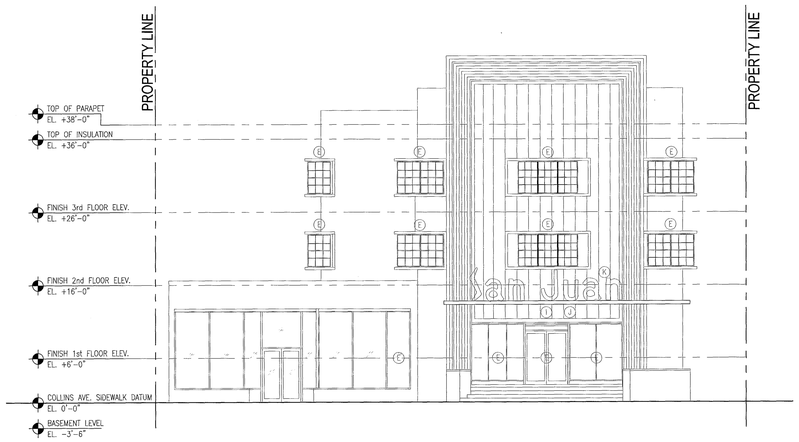
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15. DE-ENERGIZE AND REMOVE ALL CONDUCTORS AND RACEWAYS TO THEIR POINTS OF ORIGIN WITHIN THE AREA OF DEMOLITION SCOPE. ITEMS IDENTIFIED FOR DEMOLITION SHALL NOT BE ABANDONED IN PLACE. RACEWAYS THAT ENTER MASONRY WALLS AND FLOORS SHALL BE CUT FLUSH AT THE SURFACE. PATCH ALL HOLES FLUSH WITH ADJACENT SURFACE.
16. REMOVE ALL MISC. UNUSED CLIPS, ANCHORS, ETC FROM MASONRY WALLS, COLUMNS, BEAMS & DECKS.
17. WHERE APPLICABLE, CUT AND CAP EXISTING GREASE TRAP LINES BELOW EXISTING SLAB. ENSURE LOCATION OF CUT IN RELATION TO FITTING IS ADEQUATE FOR FUTURE CONNECTION AND EXTENSION. REFER TO MEP DRAWINGS FOR LOCATION.
18. WHERE APPLICABLE, SAW CUT EXISTING SLAB TO PROVIDE FOR ROUTING OF NEW SANITARY PIPE. G.C. TO LAYOUT ROUTING OF ALL PIPING PRIOR TO CUTTING SLAB AND X-RAY SLAB TO ENSURE NO ELECTRICAL, PLUMBING OR FIRE LINES ARE DISRUPTED. SEE MEP DRAWINGS FOR LOCATIONS, SPLICING REQUIREMENTS, AND WATERPROOFING DETAILS.
19. SEE PLAN FOR EXISTING DRYWALL / MASONRY AREAS TO BE DEMOLISHED.
20. SEE PLAN FOR EXISTING INTERIOR SUPPORT COLUMNS TO BE DEMOLISHED. INTERIOR COLUMN FOOTING TO BE REMOVED AS WELL. REMOVE EXISTING ATTACHED FLOOR LEVELS TO BE REBUILT AT SPECIFIED HEIGHT UNDER NEW WORK. SUPPORT EXTERIOR WALLS PER APPROVED BRACING PLANS.
21. UNLESS NOTED OTHERWISE, ALL INTERIOR STRUCTURES TO BE DEMOLISHED, INCLUDING COLUMNS, BEAMS, CEILING, ROOF, AND EXISTING MEP STRUCTURES NOT BEING REUSED. REFER TO MEP DRAWINGS FOR NEW LOCATIONS.
22. G.C. TO PHOTO DOCUMENT ALL HISTORIC CONDITIONS, FLOOR PATTERNS, AND CEILING CONDITIONS PRIOR TO DEMOLITION.
23. REMOVE ALL EXTERIOR CONDUIT, OR SERVICE FENESTRATION (HOSE BIBS, LIGHT, HVAC, ETC) AND PATCH WALL TO ADJACENT SURFACE.
24. PATCH AND REPAIR AREAS IN CEILING, WALLS, AND FLOORS WITH MOLD, MILDEW, AND ROT, TYP.

SHEET NOTES

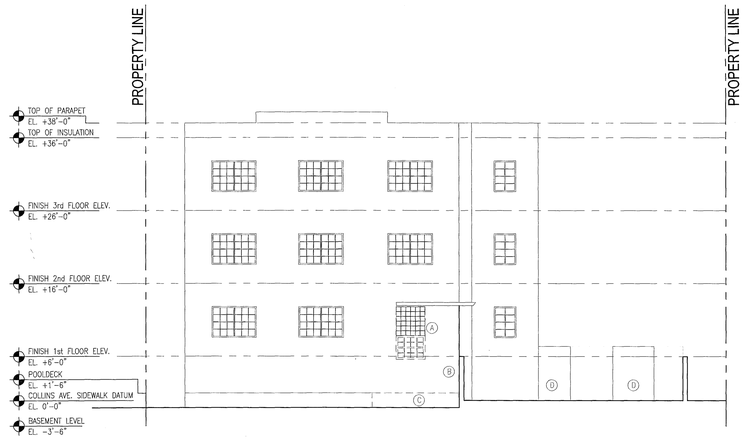
- A WINDOW TO BE REMOVED AND CMU TO BE USED AS INFILL. POSSIBLE LOCATION FOR EXHAUST VENTS FROM KITCHEN, COORDINATE WITH RESTAURANT OPERATOR
- B POOL WALL DEMOLISHED ON NORTHERN SIDE, SEE SHEET A101 FOR NEW WALL LOCATION
- C PORTION OF PLANTER DEMOLISHED TO ALLOW FOR NEW ENTRY
- D EXISTING STRUCTURE TO BE DEMOLISHED. SEE SHEET A101 FOR LOCATION
- E REMOVE WINDOW/DOOR, SEE WINDOW AND DOOR SCHEDULE SHEET A191 FOR EXACT SPECIFICATIONS
- F DEMOLISH WALL TO ACCOMMODATE PIVOT DOORS SEE SHEET A191 FOR EXACT SPECIFICATIONS
- G COVER GLASS BLOCK WITH STUCCO FOR A SMOOTH FINISH AND PAINT PT-X
- H REMOVE EXISTING STAIRS, BUILD OUT TO LOCATION ACCORDING TO SHEET A101
- I REMOVE AWNING
- J REMOVE EXISTING FACADE LIGHTING FIXTURES AND PATCH AS NECCED
- K REFURBISH "SAN JUAN SIGNAGE TO MAKE "LIKE-NEW".

LEGEND

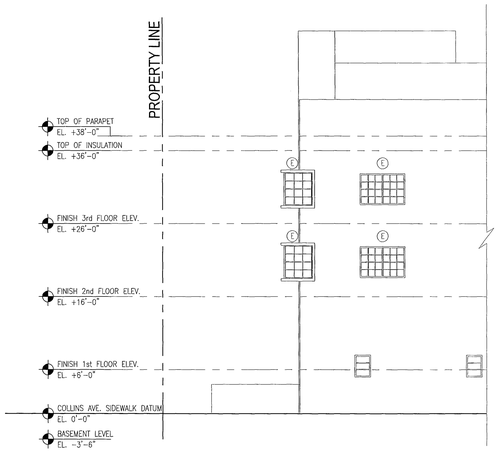
- PARTITION TO BE DEMOLISHED
- EXISTING PARTITION TO REMAIN
- EXISTING BLOCK WALL TO REMAIN
- NEW PARTITION
- NEW PLANTER LOCATION
- N.I.C. SHADING
- EXISTING STRUCTURE
- EXISTING DOOR TO REMAIN
- DOOR TO BE REMOVED
- KEYNOTE INDICATOR
- EXISTING OUTLET - VOICE/DATA
- EXISTING SWITCH
- EXISTING POWER OUTLET
- EXISTING VOICE/DATA OUTLET
- EXISTING THERMOSTAT
- EXISTING FIRE STROBE
- EXISTING FIRE EXTINGUISHER CABINET
- RELOCATED THERMOSTAT
- NEW POWER OUTLET
- RELOCATED SWITCH



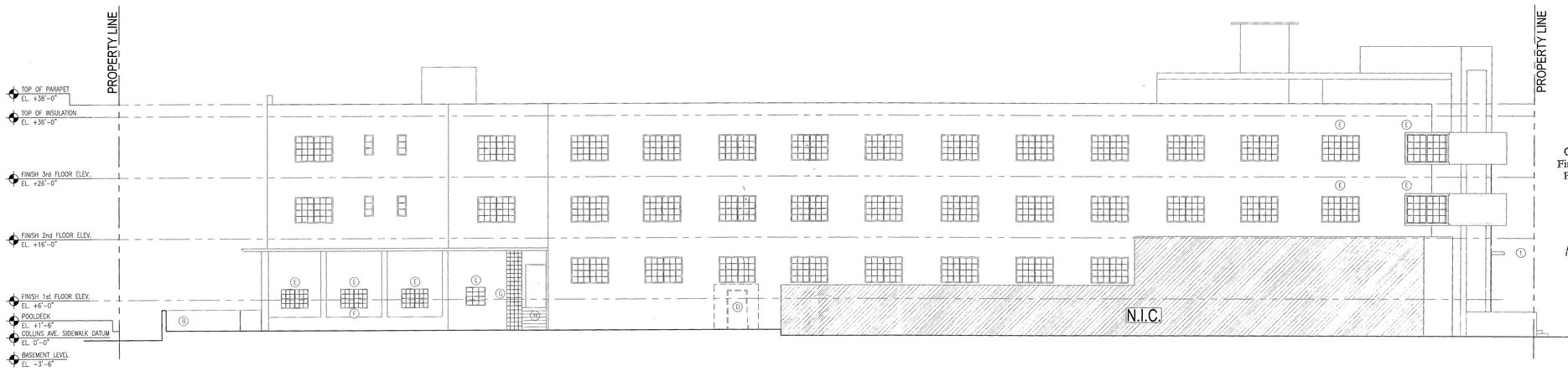
1 EAST ELEVATION
SCALE: 1/8" = 1'-0"



2 WEST ELEVATION
SCALE: 1/8" = 1'-0"



3 PARTIAL NORTH ELEVATION
SCALE: 1/8" = 1'-0"



4 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.

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PERMIT SET

NORTH SEAL

9-15-14
Jonathan Cardello
Lic. # AR93391

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Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
1/8" = 1'-0"

SHEET TITLE

EXTERIOR DEMO ELEVATIONS

SHEET NUMBER

AD102

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GENERAL DEMOLITION NOTES

1 NOTIFY THE ARCHITECT OF ANY UNEXPECTED FIELD CONDITION OR ANY DISCREPANCY BEFORE PROCEEDING. GENERAL CONTRACTOR IS TO COORDINATE THE COMPLETE SCOPE OF WORK FOR DEMO WITH CONSTRUCTION DOCUMENTS.

2 WHEN DEMOLISHING MATERIALS NEXT TO ABUTTING MATERIALS, CARE MUST BE TAKEN TO AVOID DAMAGING ELEMENTS TO REMAIN. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL REPAIRS.

3 PROVIDE SECURE ACCESS TO SITE THROUGHOUT CONSTRUCTION AND TEMPORARY LIGHT & POWER.

5 PROVIDE STRICT CONTROL OF JOB CLEANING AND PREVENT DUST AN DEBRIS FROM EMANATING FROM DEMOLITION/ CONSTRUCTION AREA.

6 PROVIDE TEMPORARY FIRE ALARM, SMOKE DETECTOR, FIRE WATCH, OR OTHER REQUIREMENT. G.C. TO REVIEW WITH BUILDING DEPARTMENT, FIRE DEPARTMENT, OR OTHER APPLICABLE AGENCIES.

7 CAP AND SHUT OFF ALL UNUSED UTILITIES PER CITY AND STATE REQUIREMENTS, WHERE REQUIRED.

8 REMOVAL OF ANY EQUIPMENT, CABLING SWITCHES AND CONDUIT PERTAINING TO DATA/COMMUNICATIONS SHALL BE VERIFIED WITH TELEPHONE COMPANIES, SERVICE OWNER OR TENANT DATA/COMMUNICATIONS REPRESENTATIVE AS REQUIRED TO PREVENT NEW CONSTRUCTION DELAYS.

9 COORDINATION OF DEBRIS REMOVAL TO BE APPROVED BY OWNER. ALL DEBRIS REMOVAL MUST BE PERFORMED IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS AND PROCEDURES.

10 ELECTRICAL DEVICES SHALL BE TERMINATED IN A SAFE AND PROPER METHOD BY A LICENSED PROFESSIONAL.

11 THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID, ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITION OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. ABSOLUTELY NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BLDG.

12 THE CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON HIS WORK. POTENTIAL PROBLEM AREAS SHALL BE BROUGHT TO THE ATTN. OF THE ARCHITECT AND/OR ENGINEER IMMEDIATELY.

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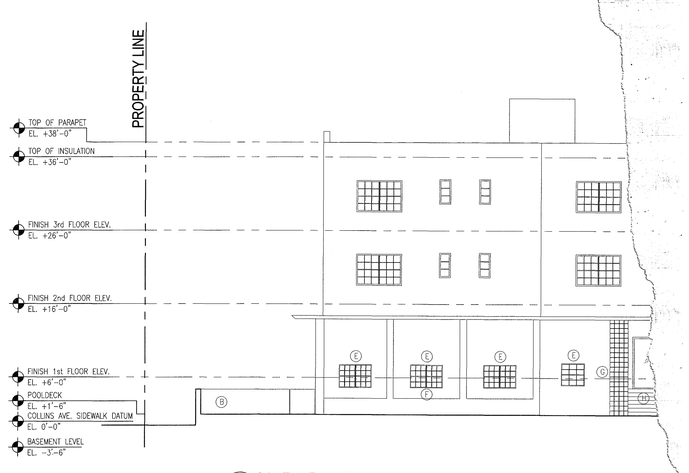
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SCALE: 1/8" = 1'-0"



4 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

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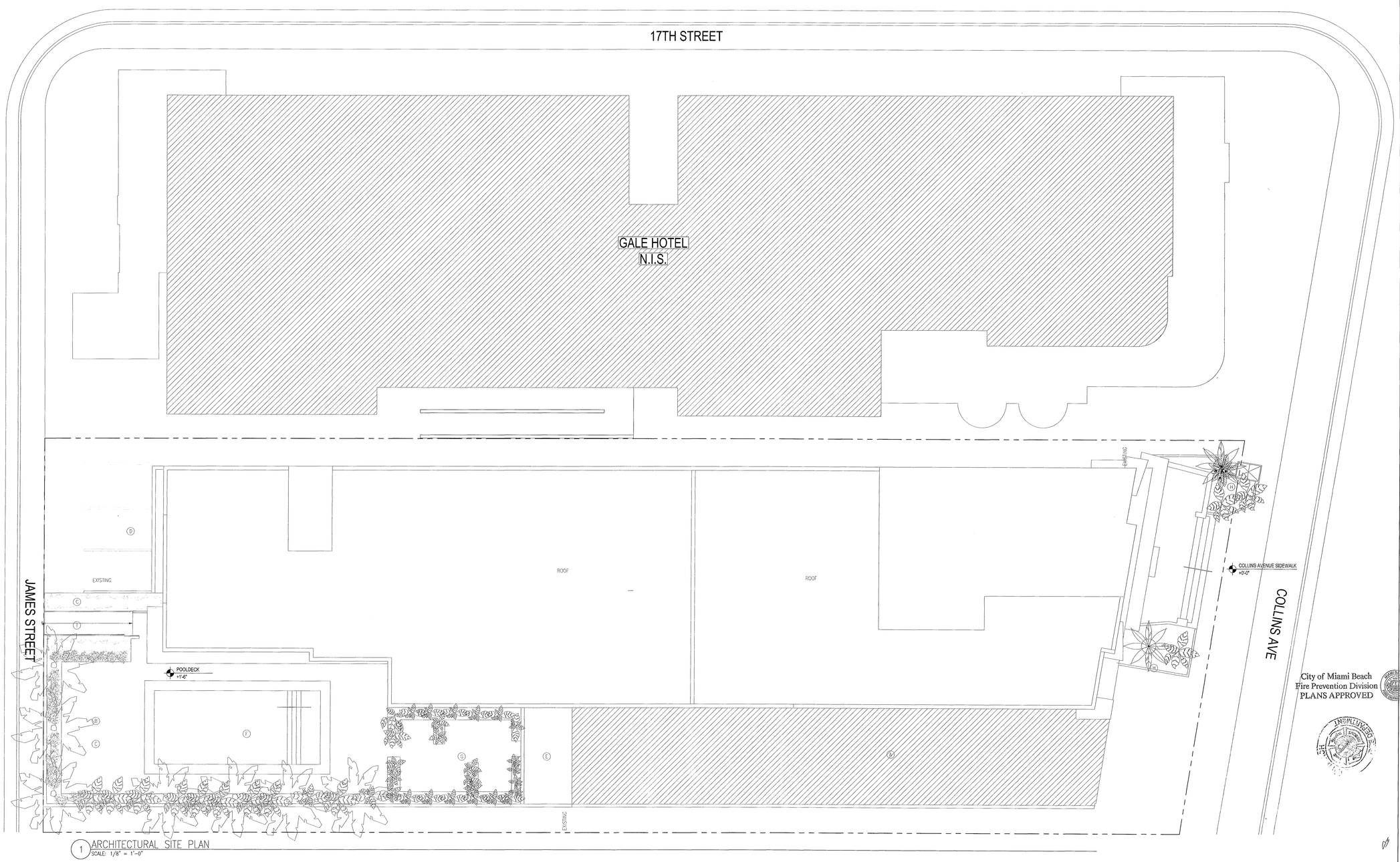
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22. POOL DWG's INCLUDED FOR REFERENCE. POOL TO BE PERMITED SEPARATELY
23. HARDSCAPE TO BE LEVEL AND SLIP-RESRAINT PER THE FFPC 2010 CHAPTER 7

SHEET NOTES

- A "I LOVE LIQUOR" NOT IN SCOPE
- B NEW WALL TO BE PUSHED BACK TO THE WEST PROPERTY LINE
- C NEW PLANTERS TO BE FILLED WITH SOIL TO DEPTH OF 6'-0", SEE LANDSCAPE PLAN LP-1 FOR DETAILS
- D PLANTERS TO BE REFILLED WITH SOIL AND REPLANTED
- E OUTDOOR BATHROOM
- F INFINITY POOL WITH SLOT OVERFLOW FLUSH WITH POOL DECK. SEE AQUADYNAMICS DRAWINGS SP-1.01 - SP-1.07 AND STRUCTURAL S100 - S400 FOR DETAILS.
- G GARDEN AND AREA
- H EXTENDED PLANTING AREA, VERIFY EXACT LAYOUT ON SITE WITH ARCHITECT
- I POOL DECK AND CAFE ENTRANCE
- J DEMO WORK SHALL NOT IMPEDE EGRESS ON THE NEXT BUILDING OR LOCATION OF DUMPSTERS (3)

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- N.I.C. SHADING
- EXISTING STRUCTURE
- CMB CEILING/SOFFIT
- EXISTING DOOR TO REMAIN
- DOOR NUMBER NEW DOOR
- ELEVATION REFERENCE
- DETAIL REFERENCE
- F.S. FLOOR SINK
- FD.-FLOOR DRAIN
- W.-WASTE OUTLET
- TD - TRENCH DRAIN
- LEVEL CHANGE
- (1) STUD PARTITION
- (2) NEW CMU WALL

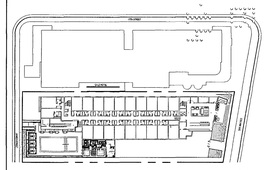


1 ARCHITECTURAL SITE PLAN
SCALE: 1/8" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

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1	ISSUE FOR EXTERIOR FACADE PERMIT	05.06.14
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PERMIT SET

NORTH SEAL

9-15-14
Jonathan Cardello
Lic. # AR93391

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Boston Miami

JOB NUMBER:	13023.00
CHECKED BY:	
ISSUE DATE:	JUNE 26, 2014
SCALE:	1/8" = 1'-0"

SHEET TITLE

ARCHITECTURAL SITE PLAN

SHEET NUMBER

A001

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15 REFER
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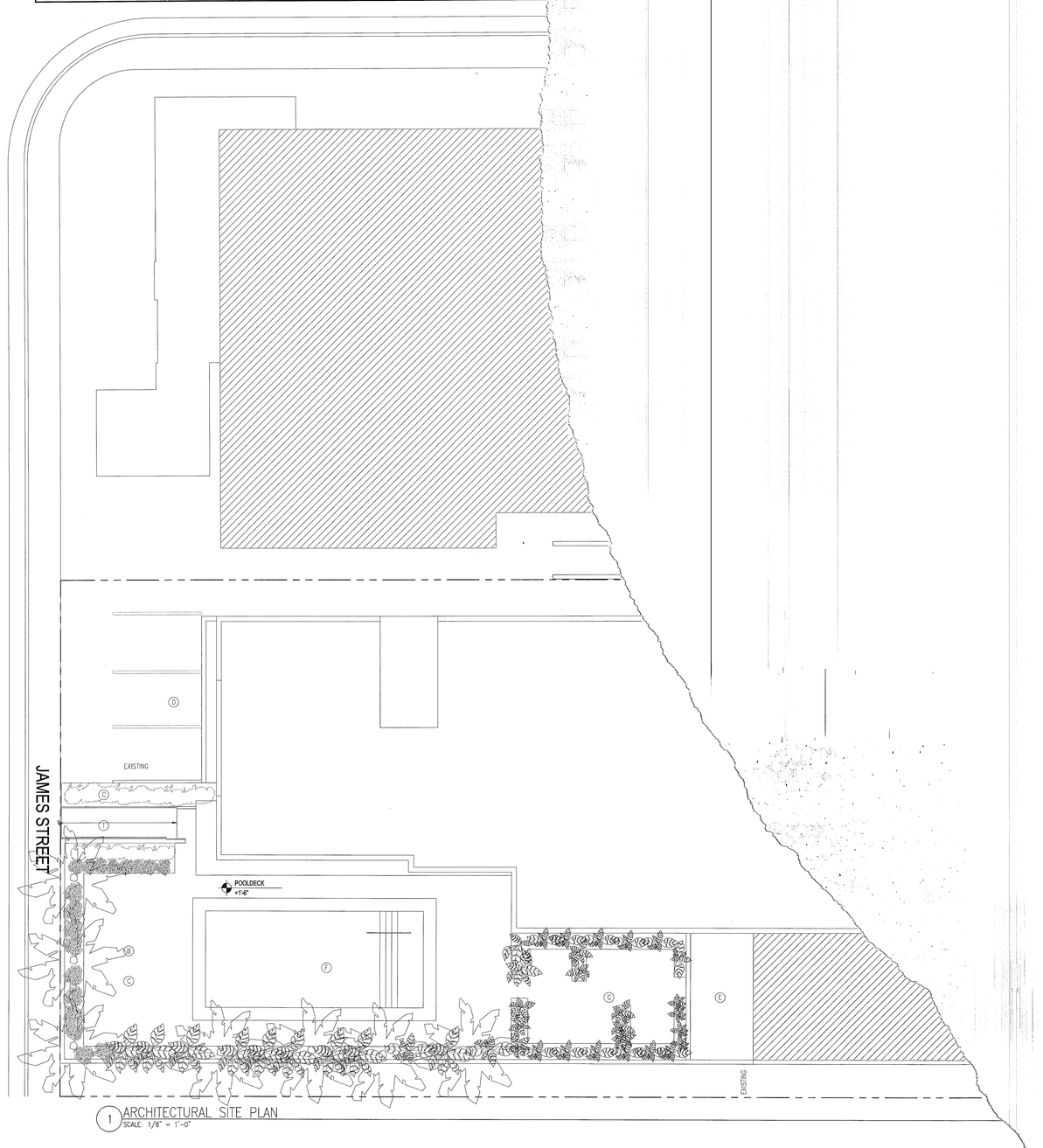
18 ALL EXISTIN
AND FLOOR
NEW ANTI-

19 ELECTRIC
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20 ALL S
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22.



1 ARCHITECTURAL SITE PLAN
SCALE: 1/8" = 1'-0"

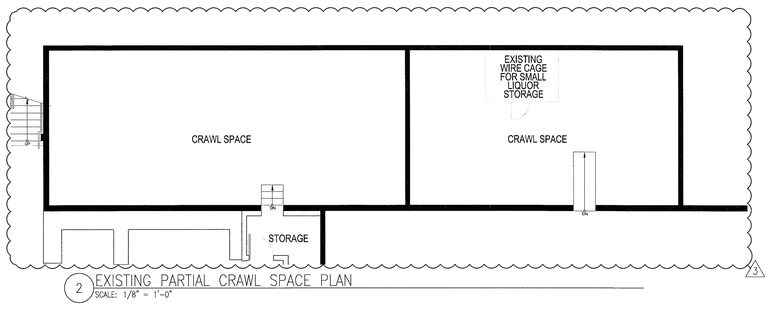
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- EXISTING PARTITION TO REMAIN
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- N.I.C. SHADING
- EXISTING STRUCTURE
- GWB CEILING/SOFFIT
- EXISTING DOOR TO REMAIN
- DOOR NUMBER NEW DOOR
- ELEVATION REFERENCE
- DETAIL REFERENCE
- F.S. FLOOR SINK
- FD.-FLOOR DRAIN
- W.-WASTE OUTLET
- TD - TRENCH DRAIN
- LEVEL CHANGE
- 1 STUD PARTITION
- 2 NEW CMU WALL



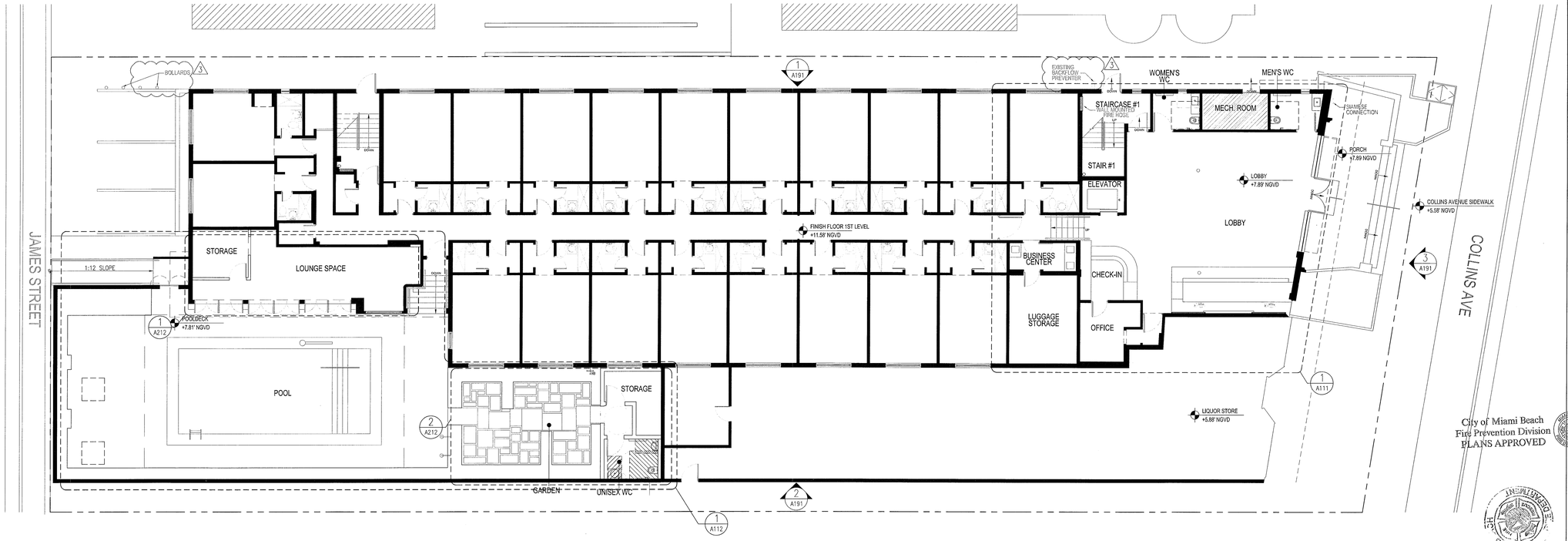
2 EXISTING PARTIAL CRAWL SPACE PLAN
SCALE: 1/8" = 1'-0"

LOBBY BAR INFORMATION:

NUMBER OF SEATS: 22
TOTAL AREA: 1006 SF

BATHROOM / STORAGE ADDITION
AREA: 150 SF

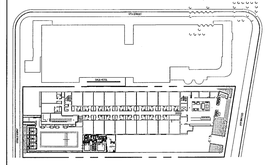
3



1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE
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2	RESPONSE TO CMB COMMENTS	06.28.14
3	PERMIT COMMENTS	09.10.14

PERMIT SET

NORTH SEAL

9.15.14
Jonathan Cardello
Lic. # AR93391

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Lic. # AA26001507

Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
SCALE: 1/8" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SHEET TITLE

ARCHITECTURAL
FIRST FLOOR PLAN

SHEET NUMBER

A101

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22. POOL DWG's INCLUDED FOR REFERENCE. POOL TO BE PERMITTED SEPARATELY
23. HARDSCAPE TO BE LEVEL AND SLIP-RESISTANT PER THE FFPC 2010 CHAPTER 7

SHEET NOTES

A. DOOR WIDTH WIDENED TO 36"

B. PROVIDE WATER LINE FOR BAR EQUIPMENT AND DRAIN IN FLOOR

C. FOLLOW TERRAZZO LINE AND OFFSET 6". VERIFY IN FIELD FOR LOCATION AND SIZE OF CHECK-IN BAR.

D. NEW BUILT-IN TEAK BENCH WITH LED LIGHTING ON UNDERSIDE. PROVIDE RECESSED STEEL SUPPORTS FOR CANTILEVER.

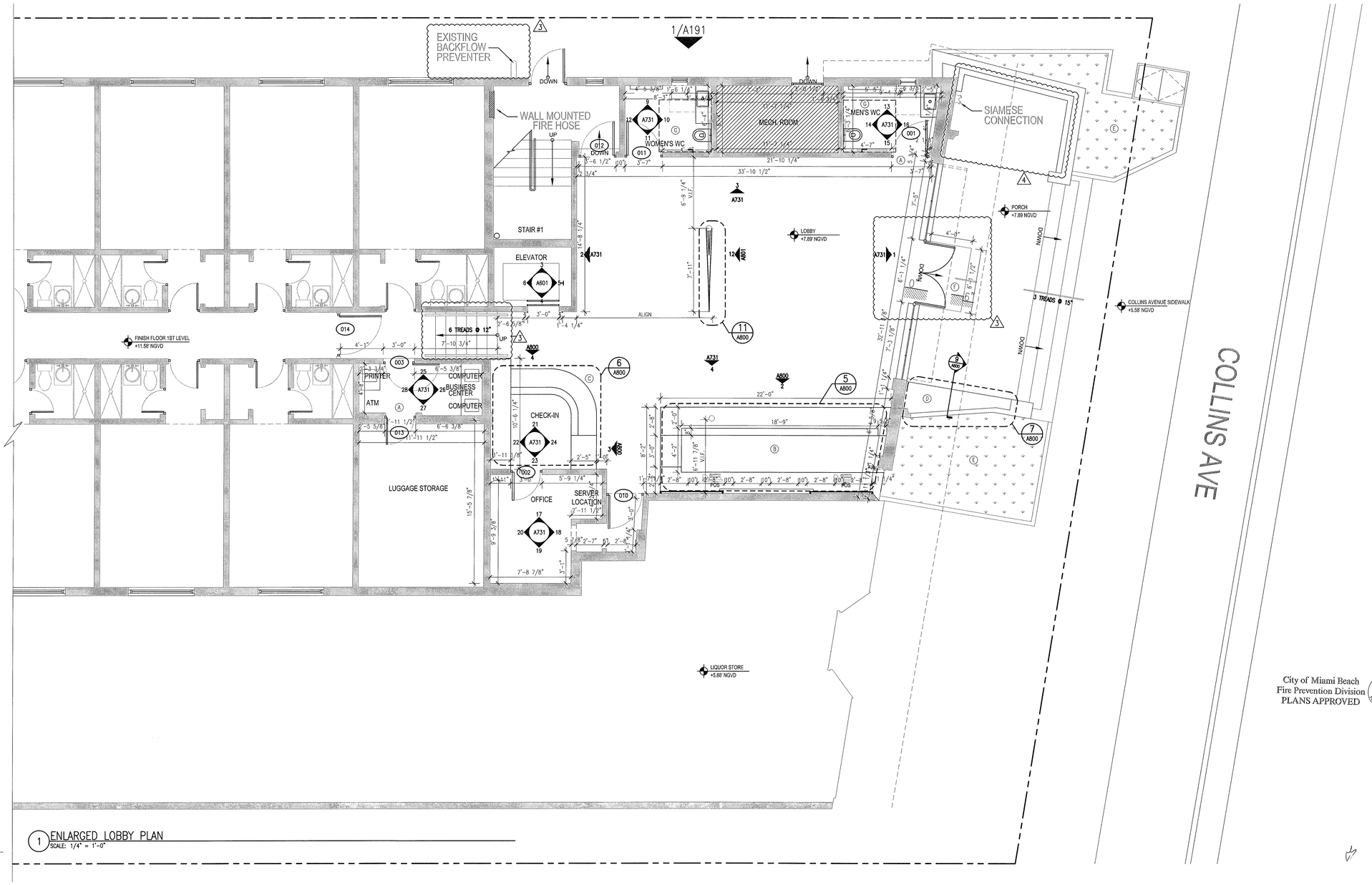
E. EXPANDED LANDSCAPE AREA

F. POUR CONCRETE LANDING AT ENTRY DOOR BASE AND FINISH WITH TERRAZZO TO MATCH EXISTING.

G. BOTH BATHROOMS ARE EXISTING. ONLY NEW FINISHES AND FIXTURES TO BE REPLACED.

LEGEND

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- NEW PARTITION
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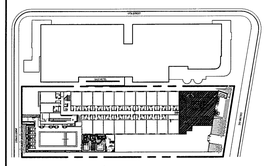


1 ENLARGED LOBBY PLAN
SCALE: 1/4" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS		
NO.	DESCRIPTION	ISSUE DATE
1	ISSUE FOR EXTERIOR FACADE PERMIT	05.05.14
2	RESPONSE TO CMB COMMENTS	06.26.14
3	PERMIT COMMENTS	09.10.14
4	PERMIT COMMENTS	10.06.17

PERMIT SET

NORTH SEAL

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Boston Miami

JOB NUMBER:	13023.00
CHECKED BY:	
ISSUE DATE:	JUNE 26, 2014
SCALE:	1/4" = 1'-0"

SHEET TITLE

ENLARGED LOBBY PLAN

SHEET NUMBER

A111

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SHEET NOTES

A. INSTALL RECESSED PIT FOR POOL EQUIPMENT WITH LOUVERED HATCH AT SIDES WITH PISTON HINGES 4" ABOVE GRADE SEE POOL SHOP DRAWINGS FOR SIZES AND DETAILS. COORDINATE ON SITE WITH ARCHITECTS.

B. NEW PLANTING AREA. SEE STRUCTURAL DRAWINGS FOR DETAILS

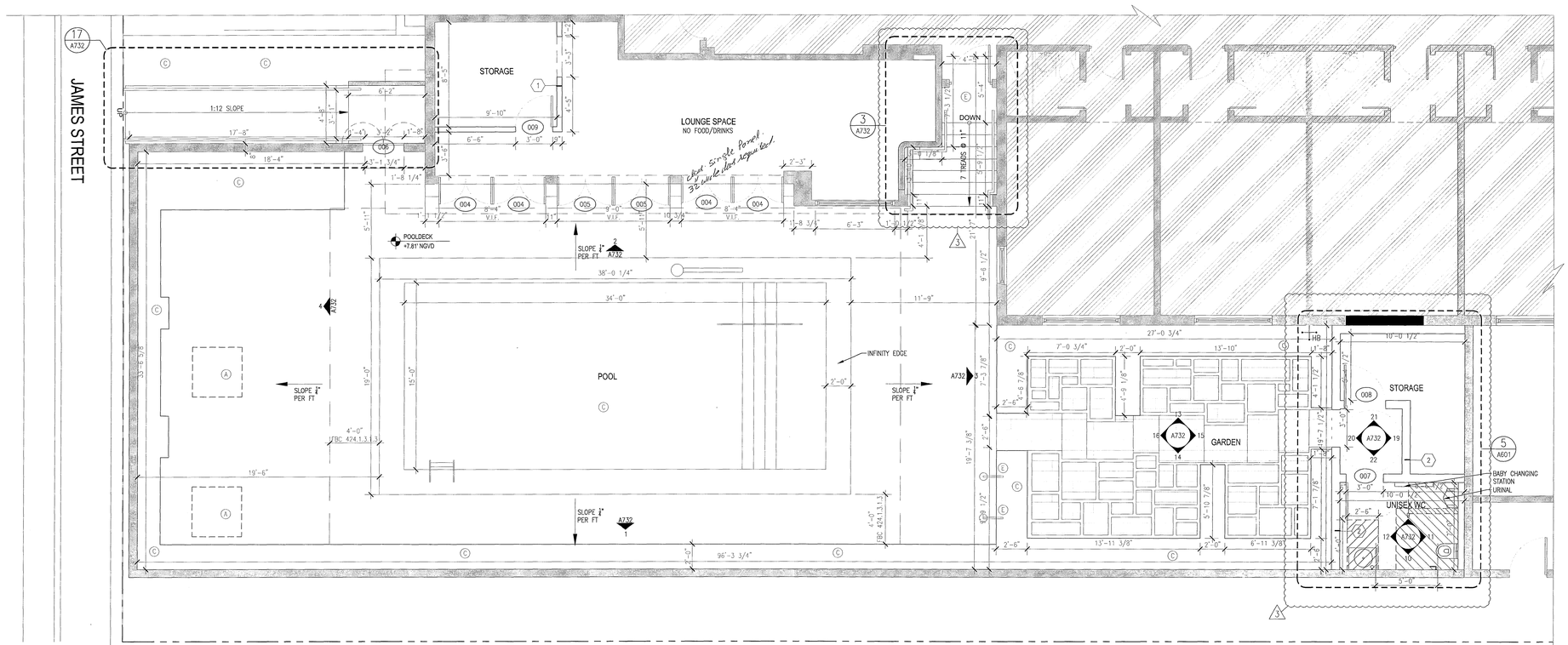
C. SEE POOL DRAWINGS FROM POOL CONSULTANT AND STRUCTURAL ENGINEER FOR SCOPE OF NEW POOL. POOL TO BE SUBMITTED AS SEPARATE PERMIT.

D. EXTEND STAIRS FOR SAFETY.

E. EXTERIOR SHOWER HEAD

LEGEND

- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- N.I.C. SHADING
- EXISTING STRUCTURE
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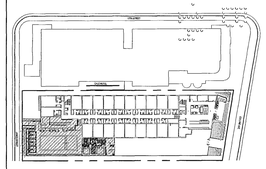


1 ENLARGED POOL DECK PLAN
SCALE: 1/4" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN -N.T.S.



REVISIONS		
NO.	DESCRIPTION	ISSUE DATE
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SHEET TITLE

ENLARGED POOL DECK PLAN

SHEET NUMBER

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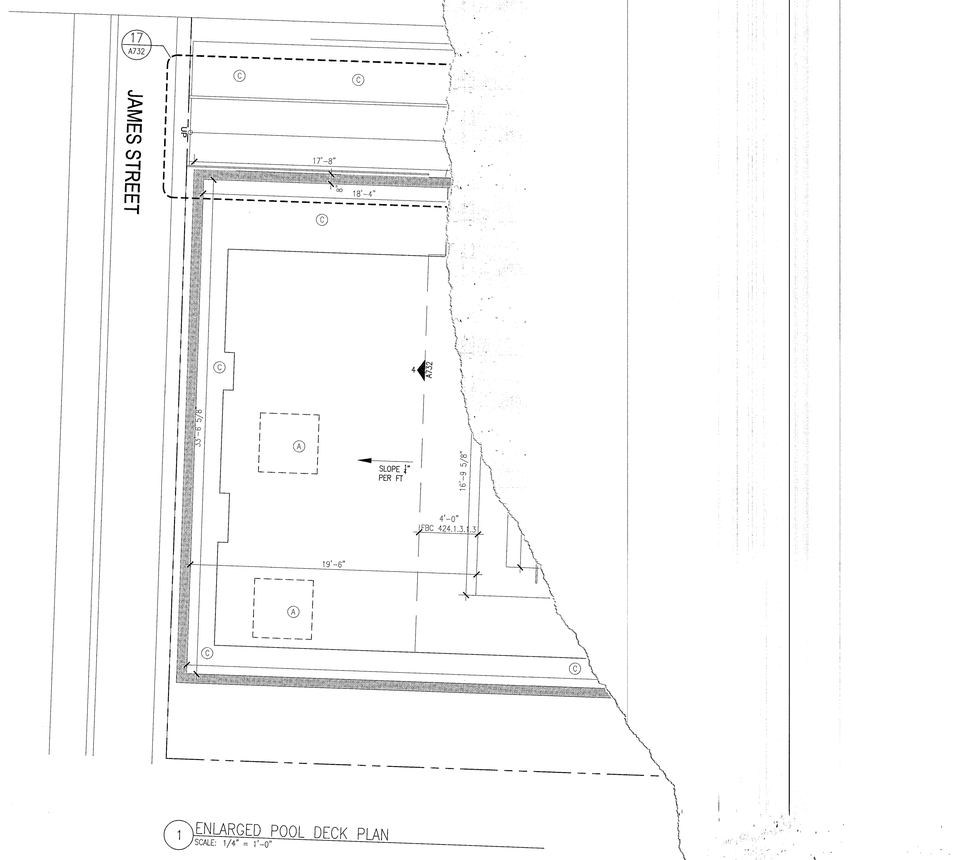
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21. ALL ELECTRICAL EQUIPME LEVELS

22. POOL DRAWINGS INCLU PERMITTED SEPARATE



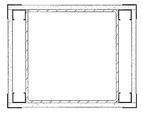
1 ENLARGED POOL DECK PLAN
SCALE: 1/4" = 1'-0"

COLUMNS, NONCOMBUSTIBLE

GA FILE NO. CM 1851	GENERIC	1 HOUR FIRE

GYPSUM WALLBOARD, STEEL STUDS

One layer 5/8" type X gypsum wallboard applied without horizontal joints and parallel to 1 5/8" studs located at each corner of TS8x8x0.250 tube steel column with 1" Type S drywall screws 24" o.c. Steel cornerbead, 1 1/2" flanges, applied with 1" Type S drywall screws 12" o.c in each flange. Joint compound 1/16" thick applied over corner bead.



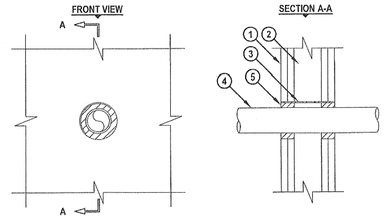
Fire Test: UL NC505, 77NK1747: 6-13-77, UL Design X528

8 FIRE PROTECTION AT STEEL COLUMN
SCALE: N.T.S.

UL SYSTEM NO. W-L-2128
PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.

WL-2128f.060106

FRONT VIEW / SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. [OPTIONAL] SHEET METAL PIPE SLEEVE (MAXIMUM 3-1/2" DIAMETER, MINIMUM 28 GA. THICKNESS, WITH MINIMUM 1-1/4" LAP ALONG LONGITUDINAL SEAM).
4. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 2" NOMINAL DIAMETER PVC PLASTIC PIPE (SCHEDULE 40) (CELLULAR OR SOLID CORE) (CLOSED OR VENTED PIPING SYSTEM).
   B. MAXIMUM 2" NOMINAL DIAMETER CPVC PLASTIC PIPE (SDR 13.5) (CLOSED PIPING SYSTEM ONLY).
5. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT :
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 3-1/2".
2. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 11/16".
3. PIPE MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.

HILTI Hilti Firestop Systems | HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000 | Sheet 1 of 1 | Scale 3/16" = 1" | Date Aug. 01, 2006 | Drawing No. WL 2128f

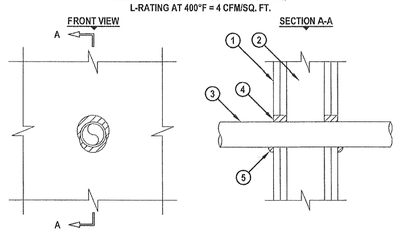
Saving Lives through Innovation and Education

7 FIRE PREVENTION AT GYPSUM WALL ASSEMBLY
SCALE: N.T.S.

UL SYSTEM NO. W-L-2377
FGB/BM/CZ SYSTEM COMPATIBLE
FLOWGUARD GOLD OR BLAZEMASTER PIPE THROUGH GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.
T-RATING = 1-HR. OR 2-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L-RATING AT 400°F = 4 CFM/SQ. FT.

WL-2377e.021109

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   A. MAXIMUM 2" NOMINAL DIAMETER FLOWGUARD GOLD® CPVC PIPE (SDR 11).
   B. MAXIMUM 2" NOMINAL DIAMETER BLAZEMASTER® CPVC PIPE (SDR 13.5).
4. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT :
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 3".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-1/4".

FGB/BM/CZ™ System Compatible Indicates that this product has been tested, and is monitored on an ongoing basis, to assure its chemical compatibility with FlowGuard Gold®, BlazeMaster® and Corzan® pipe and fittings. FGB/BM/CZ™, FlowGuard Gold®, BlazeMaster®, and Corzan® are licensed trademarks of the Lubrizol Corporation.

HILTI Hilti Firestop Systems | HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000 | Sheet 1 of 1 | Scale 3/16" = 1" | Date Feb. 11, 2009 | Drawing No. WL 2377e

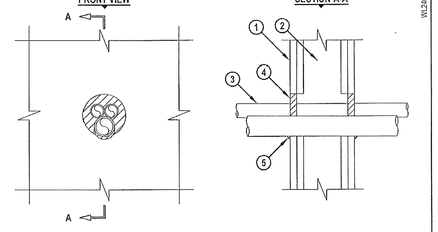
Saving Lives through Innovation and Education

6 FIRE PREVENTION AT GYPSUM WALL ASSEMBLY
SCALE: N.T.S.

UL SYSTEM NO. W-L-2466
MULTIPLE PLASTIC PIPE THROUGH GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR. OR 1-HR.

WL-2466a.042706

FRONT VIEW / SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL CLASSIFIED U300, U400 OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" X 4" LUMBER. STEEL STUDS TO BE MINIMUM 3-1/2" WIDE.
3. PENETRATING ITEMS TO BE ONE OR MORE OF THE FOLLOWING :
   A. MAXIMUM 1-1/2" NOMINAL DIAMETER PVC PLASTIC PIPE (CELLULAR OR SOLID CORE) (CLOSED PIPING SYSTEM).
   B. MAXIMUM 1-1/2" NOMINAL DIAMETER CPVC PLASTIC PIPE (CLOSED PIPING SYSTEM).
   C. MAXIMUM 1-1/2" NOMINAL DIAMETER RIGID NONMETALLIC CONDUIT (RNC).
   D. MAXIMUM 1" NOMINAL DIAMETER CROSS-LINKED POLYETHYLENE (PEX) TUBING (CLOSED PIPING SYSTEM).
4. MINIMUM 5/8" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/4" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1".
3. PVC, RNC = SCHEDULE 40; CPVC = SDR 13.5; PEX = SDR 9.

HILTI Hilti Firestop Systems | HILTI, Inc. Tulsa, Oklahoma USA (918) 252-6000 | Sheet 1 of 1 | Scale 3/16" = 1" | Date Apr. 27, 2006 | Drawing No. WL 2466a

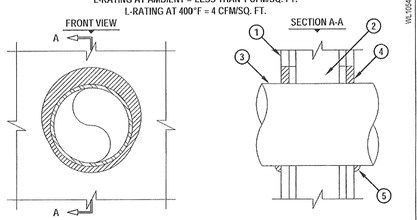
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5 FIRE PREVENTION AT GYPSUM WALL ASSEMBLY
SCALE: N.T.S.

UL/cUL SYSTEM NO. W-L-1054
METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L-RATING AT 400°F = 4 CFM/SQ. FT.

WL1054a.110802

FRONT VIEW / SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MINIMUM 5/8" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING :
A. 32-1/4" FOR STEEL STUD WALLS.
B. 14-1/2" FOR WOOD STUD WALLS.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/4".
3. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT OF CONTACT.
4. PIPE MAY BE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.

HILTI FIRESTOP SYSTEMS | HILTI, Inc. Tulsa, Oklahoma USA (918) 252-6000 | Sheet 1 of 1 | Scale 3/32" = 1" | Date Nov. 6, 2002 | Drawing No. WL 1054q

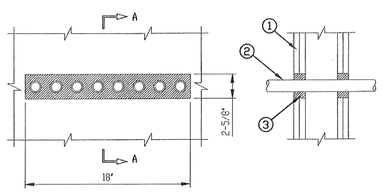
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4 FIRE PREVENTION AT GYPSUM WALL ASSEMBLY
SCALE: N.T.S.

UL/cUL SYSTEM NO. WL1095
METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL
F RATING = 1-HR. OR 2-HR.
T RATING = 1-HR. OR 2-HR.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400° F = 4 CFM/SQ. FT.

WL1095d090699

FRONT VIEW / SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. ONE OR MORE 1" NOMINAL DIAMETER EMT.
3. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT:
   A. MINIMUM 5/8" DEPTH, FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH, FOR A 2-HR. FIRE-RATING.

NOTE : ANNULAR SPACE = MINIMUM 1/2", MAXIMUM 1".

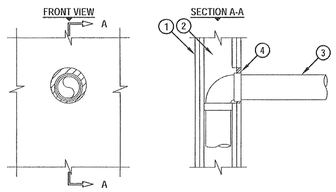
HILTI FIRESTOP SYSTEMS | HILTI, Inc. Tulsa, Oklahoma USA (918) 252-6000 | Sheet 1 of 1 | Scale 5/32" = 1" | Date SEPT. 16, 1999 | Drawing No. WL 1095d

3 FIRE PREVENTION AT GYPSUM WALL ASSEMBLY
SCALE: N.T.S.

UL/cUL SYSTEM NO. W-L-1410
METAL PIPE THROUGH GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.

WL1410b103112

FRONT VIEW / SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300, U400, V400, OR W400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER (SPACED 16" O/C). STEEL STUDS TO BE MINIMUM 3-1/2" WIDE (SPACED 24" O/C).
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 3" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 5 OR HEAVIER).
   B. MAXIMUM 3" NOMINAL DIAMETER STEEL CONDUIT OR EMT.
   C. MAXIMUM 1" NOMINAL DIAMETER COPPER TUBING.
   D. MAXIMUM 1" NOMINAL DIAMETER FLEXIBLE STEEL CONDUIT.
4. MINIMUM 5/8" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT, HILTI CP 606 FLEXIBLE FIRESTOP SEALANT, HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT OR HILTI CP 618 FIRESTOP PUTTY STICK.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 5".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1".
3. [NOT SHOWN] WHEN ANNULAR SPACE IS 0", APPLY MINIMUM 1/2" BEAD HILTI SEALANT OR PUTTY AT POINT OF CONTACT.

HILTI Hilti Firestop Systems | HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000 | Sheet 1 of 1 | Scale 1/8" = 1" | Date Mar. 21, 2012 | Drawing No. WL 1410b

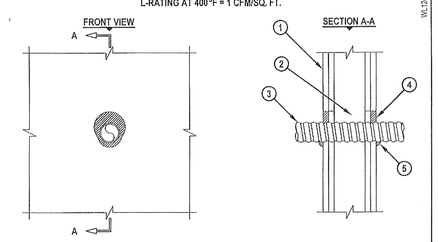
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2 FIRE PREVENTION AT GYPSUM WALL ASSEMBLY
SCALE: N.T.S.

UL/cUL SYSTEM NO. W-L-1243
FLEXIBLE ALUMINUM CONDUIT THROUGH GYPSUM WALL ASSEMBLY
F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = 5 CFM/SQ. FT.
L-RATING AT 400°F = 1 CFM/SQ. FT.

WL1243d082211

FRONT VIEW / SECTION A-A



1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. [NOT SHOWN] WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 2" NOMINAL DIAMETER FLEXIBLE ALUMINUM OR STEEL CONDUIT.
   B. MAXIMUM 2" NOMINAL DIAMETER FLEXIBLE STEEL GAS PIPING MANUFACTURED BY OMEGA FLEX INC.
   C. MAXIMUM 1" NOMINAL DIAMETER FLEXIBLE STEEL GAS PIPING MANUFACTURED BY GASTITE, DIVISION OF TITEFLEX OR WARD MFG. LLC.
4. MINIMUM 5/8" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 3-1/2".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1".

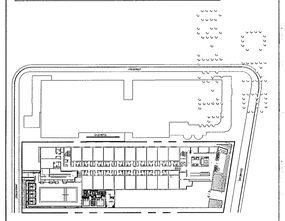
HILTI Hilti Firestop Systems | HILTI, Inc. Tulsa, Oklahoma USA (800) 879-8000 | Sheet 1 of 1 | Scale 5/32" = 1" | Date June 22, 2011 | Drawing No. WL 1243d

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1 FIRE PREVENTION AT GYPSUM WALL ASSEMBLY
SCALE: N.T.S.

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE
1	ISSUE FOR EXTERIOR FACADE PERMIT	05.06.14
2	RESPONSE TO CMB COMMENTS	06.28.14
3	PERMIT COMMENTS	09.10.14

PERMIT SET

NORTH SEAL

9-15-14
Jonathan Cardello
Lic. # AR93391

ADD Inc Architecture Interiors Planning

One Biscayne Tower
Suite 1670
Two South
Biscayne Boulevard
Miami, Fl 33131
T. 305.482.8700
F. 305.482.8770
www.addinc.com
Lic. # AA26001507

Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
AS NOTED

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

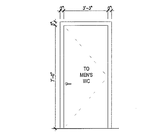
SHEET TITLE

UL ASSEMBLIES

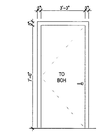
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A182

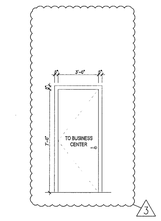
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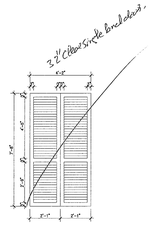
001 DOOR 001
SCALE: 1/4" = 1'-0"



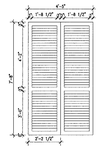
002 DOOR 002
SCALE: 1/4" = 1'-0"



003 DOOR 003
SCALE: 1/4" = 1'-0"



004 DOOR 004
SCALE: 1/4" = 1'-0"



005 DOOR 005
SCALE: 1/4" = 1'-0"



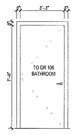
006 DOOR 006
SCALE: 1/4" = 1'-0"



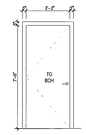
007 DOOR 007
SCALE: 1/4" = 1'-0"



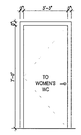
008 DOOR 008
SCALE: 1/4" = 1'-0"



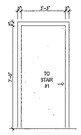
009 DOOR 009
SCALE: 1/4" = 1'-0"



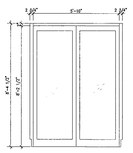
010 DOOR 010
SCALE: 1/4" = 1'-0"



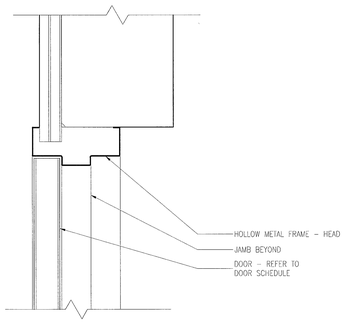
011 DOOR 011
SCALE: 1/4" = 1'-0"



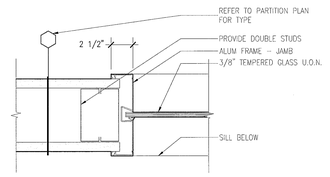
012 DOOR 012
SCALE: 1/4" = 1'-0"



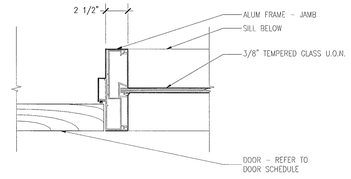
013 DOOR 013
SCALE: 1/4" = 1'-0"



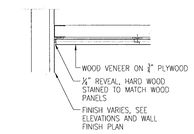
9 HOLLOW METAL FRAME AT CMU W/FURRING – HEAD
SCALE: 3" = 1'-0"



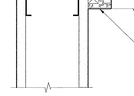
8 ALUMINUM FRAME – GLAZING JAMB W/GWB
SCALE: 3" = 1'-0"



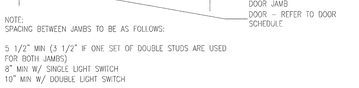
7 ALUMINUM FRAME – DOOR JAMB W/GLAZING
SCALE: 3" = 1'-0"



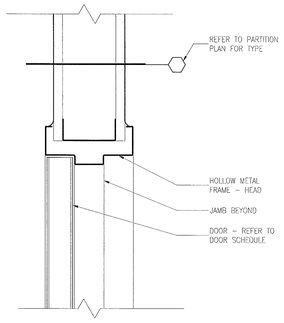
6 TYPICAL WOOD CEILING TO PARTITION DETAIL
SCALE: 1 1/2" = 1'-0"



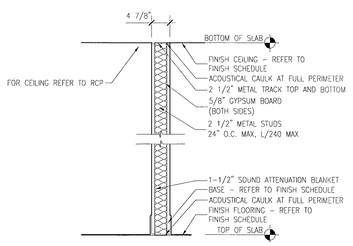
5 ALUMINUM FRAME – GLAZING JAMBS AT GWB
SCALE: 3" = 1'-0"



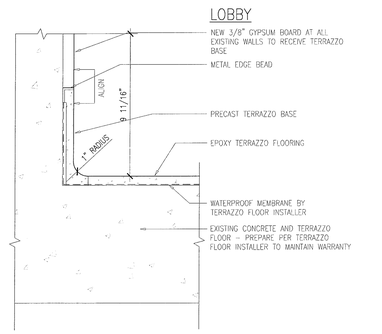
4 ALUMINUM FRAME – DOOR/GLAZING JAMBS AT GWB
SCALE: 3" = 1'-0"



3 HOLLOW METAL FRAME – HEAD
SCALE: 3" = 1'-0"



2 SINGE STUD PARTITION (2 1/2" STUD)
SCALE: 1" = 1'-0"



1 DETAILS AT TERRAZZO COVE BASE
SCALE: 3" = 1'-0"

DOOR SCHEDULE

Qty	Mark	Arch Door No.	HwSet	Mode	Width	Height	Thick	DrType	FrType	Rating	OUTSIDE LOCATION	INSIDE LOCATION	REMARKS
1	001	001	1		3'-0"	7'-0"		WD	HMF		LOBBY	MEN'S WC	
1	002	002	1		3'-0"	7'-0"		WD	HMF		CHECK-IN DESK	LUGGAGE STORAGE	
1	003	003	1		3'-0"	7'-0"		WD	HMF	45 min RATED	CORRIDOR	BUSINESS CENTER	180 DEGREE SWING / MAGNETIC HOLD OPEN
4 (PAIR)	004	004	3 1/2" Offset Single Bored Stop		4'-2"	7'-8"		WD	HMF		POOL DECK	~~RESTAURANT~~	
2 (PAIR)	005	005			4'-5"	7'-8"		WD	HMF		POOL DECK	~~RESTAURANT~~	
1 (PAIR)	006	006			3'-4"	3'-10"		WD	HMF		JAMES STREET	POOLDECK	
1	007	007			3'-0"	7'-0"		HMD	HMF		WC VESTIBULE	OUTDOOR WC	
~~1~~	~~008~~	~~008~~			~~3'-0"~~	~~7'-0"~~		~~HMD~~	~~HMF~~		~~WC VESTIBULE~~	~~STORAGE ENTRANCE~~	
1	009	009			3'-0"	7'-0"		HMD	HMF	45 min RATED	STORAGE	LOUNGE SPACE	
~~1~~	~~010~~	~~010~~	1		~~3'-0"~~	~~7'-0"~~		~~HMD~~	~~HMF~~		~~LOBBY~~	~~LUGGAGE STORAGE~~	
1	011	011	1		3'-0"	7'-0"		HMD	HMF		LOBBY	WOMEN'S WC	
1	012	012	1		3'-0"	7'-0"		HMD	HMF	90 min RATED	LOBBY	STAIRCASE #1	
~~1 (PAIR)~~	~~013~~	~~013~~			~~6'-0"~~	~~8'-4"~~		~~GLASS~~	~~HMF~~		~~ENTRY PORCH~~	~~LOBBY~~	
1	014	014	1		4'-0"	7'-0"		HMD	HMF	45 min RATED	CORRIDOR	CORRIDOR	MAGNETIC HOLD OPEN

Hardware Group No. 01 LOBBY
Provide each PR door(s) with the following:

Quantity		Description	Model Number
2	EA	MORTISE CYLINDER	986 1-1/4
		BALANCE OF HARDWARE BY STOREFRONT MFGR.	

NOTE: ALL DIMENSIONS TO BE USED AS A GUIDE FOR ESTIMATION PURPOSES ONLY. ALL OPENINGS MUST BE VERIFIED IN FIELD.

ALL NEW AND EXISTING WINDOWS TO BE TESTED FOR LEAKING AND REPAIRED WHERE NECESSARY.

EGRESS DOORS SHALL NOT REQUIRE A KEY OR SPECIAL KNOWLEDGE TO OPEN FOR EGRESS

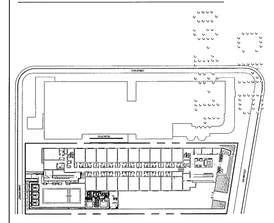
HARDWARE

TYPE	DESCRIPTION
TYPE 1	DOOR HANDLE: NANZ #2072 STUDIO LINE
TYPE 2	
TYPE 3	

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE
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3	PERMIT COMMENTS	09.10.14

PERMIT SET

NORTH SEAL

9.15.14
Jonathan Cardello
Lic. # AR93391

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Lic. # AA26001507

Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
SCALE: 1/8" = 1'-0"

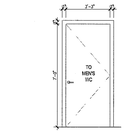
SHEET TITLE

DOOR SCHEDULE AND DETAILS

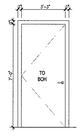
SHEET NUMBER

A191

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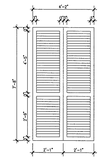


001 DOOR 001
SCALE: 1/4" = 1'-0"

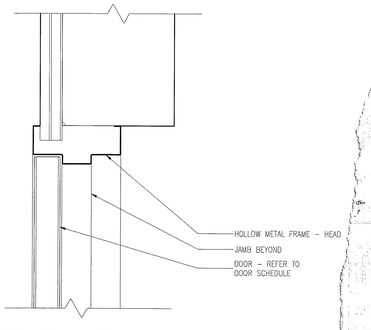


002 DOOR 002
SCALE: 1/4" = 1'-0"

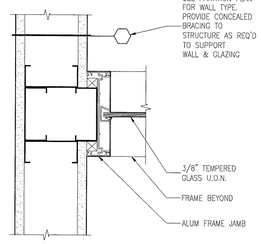
003 DOOR 003
SCALE: 1/4" = 1'-0"



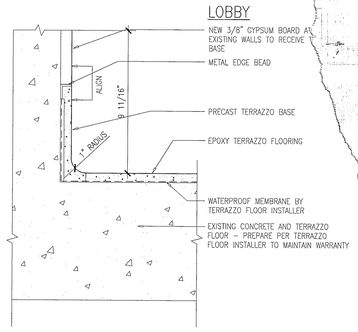
004 DOOR 004
SCALE: 1/4" = 1'-0"



9 HOLLOW METAL FRAME AT CMU W/FURRING
SCALE: 3" = 1'-0"



5 ALUMINUM FRAME - GLAZING JAMBS AT GWB
SCALE: 3" = 1'-0"



1 DETAILS AT TERRAZZO COVE BASE
SCALE: 3" = 1'-0"

GENERAL NOTES

1. NOTIFY THE ARCHITECT OF ANY UNEXPECTED FIELD CONDITION OR ANY DISCREPANCY BEFORE PROCEEDING. GENERAL CONTRACTOR IS TO COORDINATE THE COMPLETE SCOPE OF WORK WITH CONSTRUCTION DOCUMENTS.
2. REVIEW LAYOUT FOR CONSTRUCTION WITH ARCHITECT/DESIGNER IN FIELD PRIOR TO CONSTRUCTION.
3. GC TO FOLLOW LAYOUT AS SHOWN AS CLOSELY AS POSSIBLE. NOTIFY ARCHITECT/DESIGNER IMMEDIATELY OF ANY CONFLICTS WITH LIGHTING LAYOUT.
4. CONTRACTOR TO COORDINATE LOCATION OF ACCESS PANELS AT DRYWALL CEILINGS WITH ARCHITECT/DESIGNER.
5. U.O.N. ALL CEILING HEIGHTS TO BE 9'-0".
6. PROVIDE STRICT CONTROL OF JOB CLEANING AND PREVENT DUST AND DEBRIS FROM EMANATING FROM CONSTRUCTION AREA.
7. ALL REQUIREMENTS FOR FIRE RATINGS TO BE MAINTAINED DURING CONSTRUCTION.
8. PROVIDE ACCESS PANELS FOR ALL VALVES, WAH BORES, CONTROLS, J-BOXES, ETC. THAT ARE ABOVE DRYWALL CEILING. COORDINATE WITH ARCHITECT TO LOCATE AND SPECIFY ACCESS PANELS. CONTRACTOR TO COORDINATE LOCATION OF ACCESS PANELS AT DRYWALL CEILINGS WITH ARCHITECT/DESIGNER.
9. DOWNLIGHTS, SMOKE DETECTORS, EXIT SIGNS, ETC. TO BE CENTERED IN CEILING TILE U.O.N. SPRINKLER HEADS TO BE CENTERED IN ONE DIRECTION U.O.N.
10. MEP-FP DEVICE LOCATIONS NOT SHOWN ON DRAWINGS OR IN CONFLICT WITH MEP-FP DRAWINGS ARE TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
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12. G.C. TO COORDINATE ALL AUDIO/VISUAL EQUIPMENT NEEDS WITH CLIENT.
14. LOCATION OF THERMOSTATS, EXIT SIGNAGE, 24 HOUR EMERGENCY LIGHTING TO BE COORDINATED WITH ARCHITECT.
15. U.N.O. ALL WALL MOUNTED LIGHT SWITCHES SHALL BE INSTALLED AT ADA HEIGHT TO THE CENTER OF SWITCH PLATE.
16. ALL MULTIPLE SWITCH LOCATIONS TO BE GROUPED TOGETHER AND LABELED WITH A SINGLE DEVICE SWITCHPLATE.
17. DRYWALL CORRIDOR LEVELS TO BE COORDINATED WITH CONTRACTOR TO PROVIDE MAXIMUM HEIGHT.
18. DRYWALL ENTRY LEVEL SOFFITS AT ROOMS TO BE COORDINATED WITH CONTRACTOR TO PROVIDE MAXIMUM HEIGHT.
19. REFER TO SHEET A281 FOR LIGHTING FIXTURE SCHEDULE
20. ELECTRICAL OUTLETS ARE SHOWN FOR LOCATION REFERENCE, IF REQUIRED ALL ELECTRICAL WORK SHALL BE UNDER SEPARATE PERMIT.

KEY NOTES

A NOT USED

B NOT USED

C RE STUCCO ENTIRE HISTORIC SOFFIT TO GET NEW AND SMOOTH FINISH. REPLACE LIGHTING WITH TWISU TAPE LIGHT 2700K TEMP. SEE SHEET A181

D LOBBY, RESTAURANT, CORRIDOR, AND EXTERIOR LIGHTING ON DIMMERS

E RELOCATE EXISTING CORRIDOR LIGHTS TO NEW WALL SCONCES, L1-14 FOR OVERHEAD CLEARANCE ON ALL FLOORS.

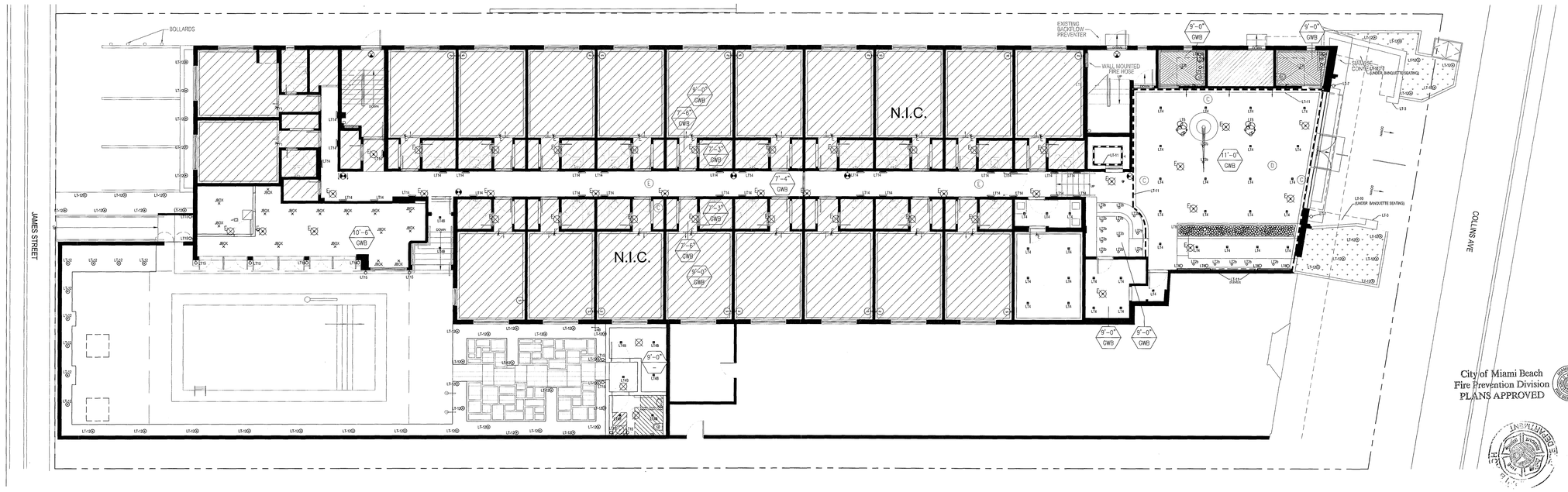
GENERAL RCP PLAN LEGEND

- NEW PARTITION
- EXISTING PARTITION TO REMAIN
- N.I.C. SHADING
- EXISTING STRUCTURE
- CEILING GRID SYS.
- GWB CEILING/SOFFIT
- CEILING HEIGHT KEY: CEILING HEIGHT - A.F.F. / CEILING TYPE
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- KEY NOTE INDICATOR
- LINEAR DIFFUSER
- DOWNLIGHT
- PENDANT LIGHT FIXTURE
- WALL SCONCE
- WALL MOUNTED EXIT SIGN (EXISTING)
- NEW SPRINKLER HEAD
- EXISTING SPRINKLER HEAD
- EXISTING WALL SPRINKLER HEAD
- EXIT SIGN
- UNDER CABINET LIGHT

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	MANUFACTURER	FIXTURE SPECIFICATION	LAMP SPECIFICATION	NOTES
LT-1	NOT USED				
LT-2B	2" LED PIN LIGHT AT LOBBY AREA	DELTA		2700K LED	DIMMABLE
LT-3	STEP LIGHT AT FRONT ENTRY	BEGA	2038 LED	2700K LED	
LT-4	3" GU-10 CAN LIGHT	LITHONIA	LK3GMW M6	2700 LED	DIMMABLE
LT-4B	3" EXTERIOR CAN AT POOL BATH	DELTA		2700 LED	DIMMABLE
LT-5	LOBBY CHANDELIER	CENTURY LIGHTING	CUSTOM	480 WATT INCANDESCENT.	DIMMABLE
LT-6	LOBBY SCONCE	CENTURY LIGHTING	CUSTOM	40 WATT INCANDESCENT	DIMMABLE
LT-7	FRONT ENTRY SCONCE	CENTURY LIGHTING	CUSTOM	24 WATT LED 2700K	DIMMABLE
LT-8	LOBBY BAR FEATURE LIGHT	CENTURY LIGHTING	CUSTOM	720 WATT G9	DIMMABLE
LT-9	NOT USED				
LT-10	ENTRY BANQUETTE LIGHTING	TIVOLI	EXTERIOR TAPELIGHT	2700K LED	DIMMABLE
LT-11	LOBBY BAR (3 SHELVES), SOFFIT SURROUND	TIVOLI	INTERIOR TAPELIGHT	2700K LED	DIMMABLE
LT-12	LANDSCAPE LIGHTING	BK LIGHTING	DENALI PPH SOLID STATE BKSSL	2700K LED	WITH STAKE FOR IN-GROUND USE
LT-13	NOT USED				
LT-14	CORRIDOR WALL SCONCE	CENTURY LIGHTING	CUSTOM	60 WATT INCANDESCENT.	INSTALL AT 6'-8" HEIGHT. DIMMABLE
LT-15	POOL AREA WALL SCONCE	CENTURY LIGHTING	CUSTOM	100 WATT INCANDESCENT.	

**NOTE: CUSTOM LIGHTING BY CENTURY LIGHTING PROVIDED BY OWNER. INSTALLED AND COORDINATED BY G.C.

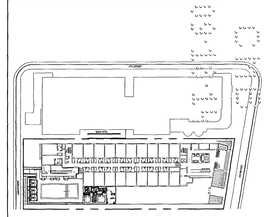


1 FIRST FLOOR RCP
SCALE: 1/8" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
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Boston Miami

JOB NUMBER:	13023.00
CHECKED BY:	
ISSUE DATE:	JUNE 26, 2014
SCALE:	1/8" = 1'-0"

SHEET TITLE

FIRST FLOOR REFLECTED CEILING PLAN

SHEET NUMBER

A201

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S

VEXPECTED FIELD CONDITION
ROCEEDING. GENERAL
THE COMPLETE SCOPE OF
MENTS.

IN WITH ARCHITECT/DESIGNER
I.

N AS CLOSELY AS POSSIBLE.
DIATELY OF ANY CONFLICTS

ATION OF ACCESS PANELS AT
T/DESIGNER.

E X'-X".

T CLEANING AND PREVENT
NG FROM CONSTRUCTION

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20 ELECTRICAL OUTLETS ARE SHOWN FOR LOCATION REFERENCE, IF REQUIRED ALL ELECTRICAL WORK SHALL BE UNDER SEPARATE PERMIT

KEY NOTES

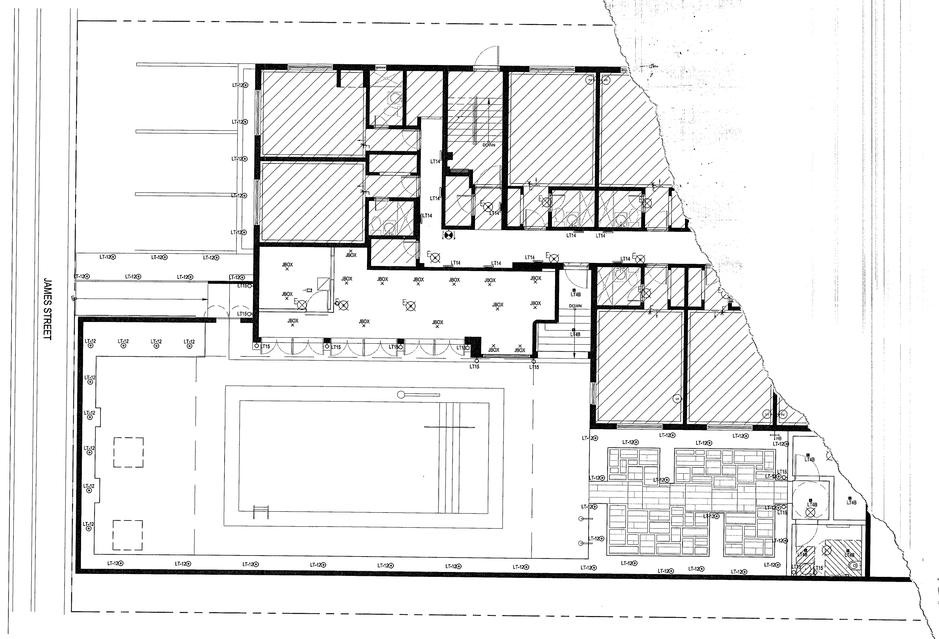
A NOT USED

B NOT USED

C RE ST
AND
TYP

D LOB
LIGH

E RELO
WALL
ON



1 FIRST FLOOR RCP
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GENERAL NOTES

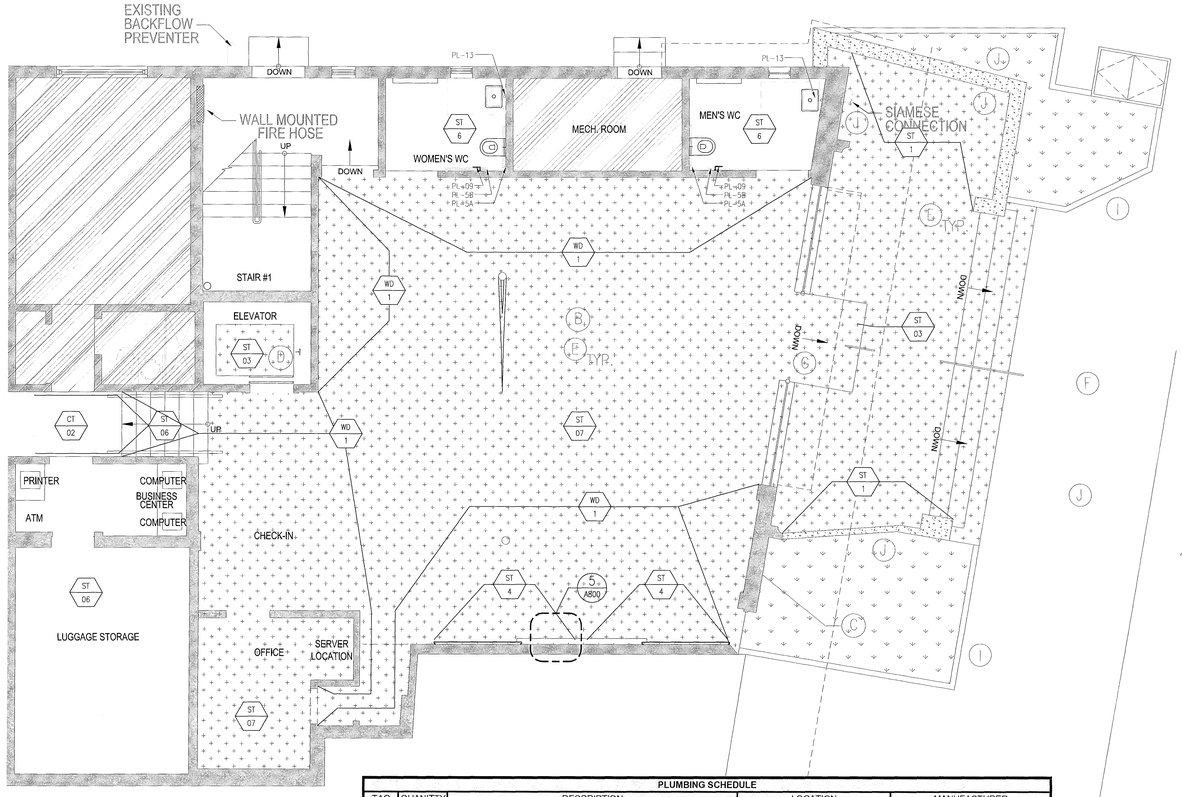
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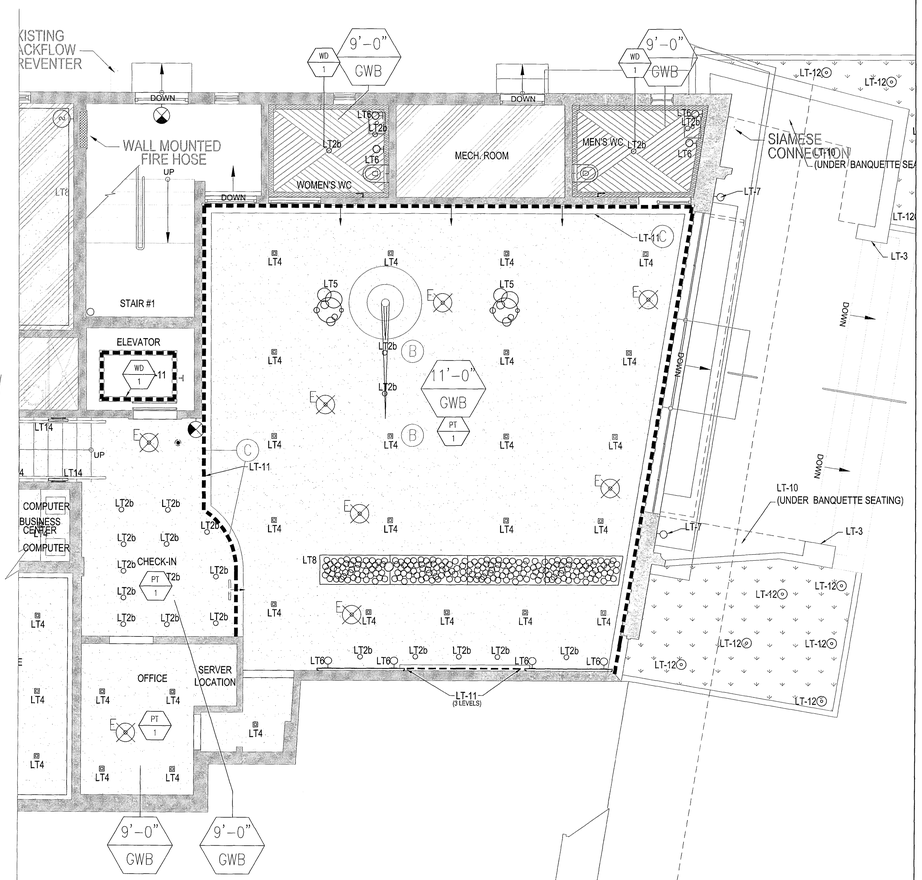
KEY NOTES

A. ALL LIGHT FIXTURES EXISTING. ONLY LABELED FIXTURES TO BE REPLACED WITH NEW FIXTURE OF SAME SCOPE
B. CEILING FIXTURES ARE EXISTING TO BE REPLACED WITH NEW FIXTURE
C. RE STUCCO ENTIRE HISTORIC SOFFIT TO GET NEW AND SMOOTH FINISH. ALSO INCLUDE HISTORIC CIRCULAR COVE AT COLUMN. REPLACE LIGHTING WITH TIVOLI TAPE LIGHT 2700K TEMP. SEE SHEET A191
D. LOBBY, RESTAURANT, CORRIDOR, AND EXTERIOR LIGHTING ON DIMMERS
E. PATCH AND REPAIR HISTORIC TERRAZZO FLOOR WHERE NEEDED
F. REFINISH DRIVEWAY
G. NEW LANDING TO RECEIVE MATCHING TERRAZZO FINISH
H. REPLACE HVAC VENTS WITH TRUFIG SLOT DIFFUSERS AT LOBBY. MOVE DIFFUSERS ABOVE CHECK-IN AS NEEDED. REPLACE WITH TRUFIG. VERIFY EXISTING VENT LOCATIONS
I. CURB TO BE WRAPPED IN S1-1, TYP.
J. ENTRY FACADE EXISTING FAUX STONE TO BE REPLACED WITH CORAL STONE S1-1 AT BUILDING FACADE AND PARTIAL HEIGHT WALL AT TERRACE. SLAB TOP.

GENERAL RCP PLAN LEGEND

- NEW PARTITION
- EXISTING PARTITION TO REMAIN
- N.I.C. SHADING
- EXISTING STRUCTURE
- CEILING GRID SYS.
- GWB CEILING/SOFFIT
- CEILING HEIGHT KEY: CEILING HEIGHT – A.F.F. / CEILING TYPE
- SUPPLY DIFFUSER
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- LINEAR DIFFUSER
- DOWNLIGHT
- PENDANT LIGHT FIXTURE
- WALL SCONCE
- WALL MOUNTED EXIT SIGN (EXISTING)
- NEW SPRINKLER HEAD
- EXISTING SPRINKLER HEAD
- EXISTING WALL SPRINKLER HEAD
- EXIT SIGN
- UNDER CABINET LIGHT





PLUMBING SCHEDULE

TAG	QUANITTY	DESCRIPTION	LOCATION	MANUFACTURER
PL-1	5	WALL MOUNTED TOILET - DURAVIT 222509	GR228/328/106 - OUTDOOR WC	DURAVIT
PL-2	5	WASHBASIN WITH OVERFLOW - DURAVIT D30025 SINGLE HOLE	GR228/328/106 - OUTDOOR WC	DURAVIT
PL-3	5	KV1 ONE HANDLE MIXER BRASS FINISH	GR228/328/106	VOLA
PL-4	5	VOLA T10 SOAP DISPENSER NATURAL BRASS	GR228/328/106 - OUTDOOR WC	VOLA
PL-5A	7	32" KOHLER PURIST GRAB BAR BRASS FINISH	GR228/328 - OUTDOOR MEN WC	KOHLER
PL-5B	1	24" KOHLER PURIST GRAB BAR BRASS FINISH	OUTDOOR WOMEN'S WC	KOHLER
PL-6	3	LOURE 24" DOUBLE TOWEL BAR BRASS FINISH	GR 106/228/328	KOHLER
PL-7	3	PURIST WALL MOUNT SHOWERHEAD BRASS FINISH	GR 106/228/328	KOHLER
PL-8	3	PURIST WALL MOUNTED VALVE BRASS FINISH	GR 106/228/328	KOHLER
PL-9	5	PURIST TOILET PAPER HOLDER BRASS FINISH	GR228/328/106 - OUTDOOR WC	KOHLER
PL-10	5	ARCHER ROBE HOOK BRASS FINISH	GR228/328/106 - OUTDOOR WC	KOHLER
PL-11	2	PIPE RFFP02 - FLOOR STANDING SHOWER	POOL DECK	CUSTOM (ORIG. BY BOFFI)
PL-13	2	SINGLE HOLE FAUCET. DORNBRACHT 22513892. MATTE WHITE	OUTDOOR BATHROOMS	DORNBRACHT
PL-14	2	DRAIN. DORNBRACHT 10200970. MATTE WHITE	OUTDOOR BATHROOMS	DORNBRACHT
PL-15	1	24" SINGLE TOWEL BAR BRASS FINISH	GUESTROOM WC	KOHLER
ALL METAL FIXTURES TO HAVE SAME FINISH				

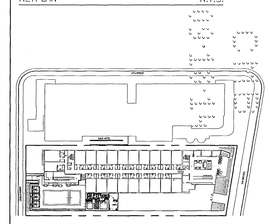
1 ENLARGED LOBBY FINISH PLAN
SCALE: 1/4" = 1'-0"

2 ENLARGED LOBBY RCP
SCALE: 1/4" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



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PERMIT SET

NORTH SEAL

9.15.14
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JOB NUMBER: 13023.00
CHECKED BY:
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SHEET TITLE

ENLARGED LOBBY RCP AND FINISH PLAN

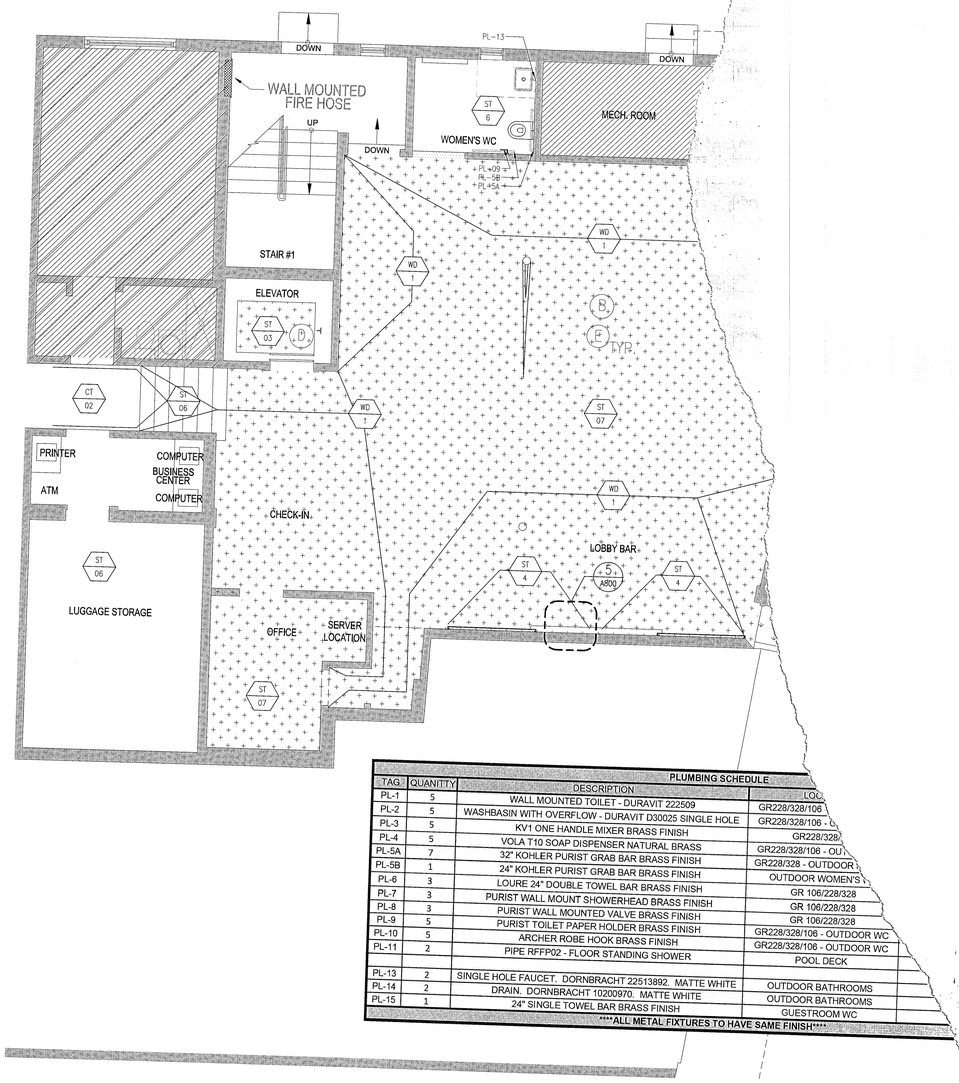
SHEET NUMBER

A211

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GENERAL NOTES

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2. REVIEW LAYOUT FOR CONSTRUCTION WITH ARCHITECT/DESIGNER IN FIELD PRIOR TO CONSTRUCTION.
3. GC TO FOLLOW LAYOUT AS SHOWN AS CLOSELY AS POSSIBLE. NOTIFY ARCHITECT/DESIGNER IMMEDIATELY OF ANY CONFLICTS WITH LIGHTING LAYOUT.
4. CONTRACTOR TO COORDINATE LOCATION OF ACCESS PANELS AT DRYWALL CEILINGS WITH ARCHITECT/DESIGNER.
5. U.O.N. ALL CEILING HEIGHTS TO BE X'-X".
6. PROVIDE STRICT CONTROL OF JOB CLEANING AND PREVENT DUST AND DEBRIS FROM EMANATING FROM CONSTRUCTION AREA.
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19. REFER TO SHEET A281 FOR LIGHTING FIXTURE SCHEDULE.
20. ELECTRICAL OUTLETS ARE SHOWN FOR LOCATION REFERENCE, IF REQUIRED ALL ELECTRICAL WORK IS UNDER SEPARATE PERMIT



PLUMBING SCHEDULE			
TAG	QUANITITY	DESCRIPTION	LOC
PL-1	5	WALL MOUNTED TOILET - DURAVIT 222509	
PL-2	5	WASHBASIN WITH OVERFLOW - DURAVIT D30025 SINGLE HOLE	GR228/328/106
PL-3	5	KV1 ONE HANDLE MIXER BRASS FINISH	GR228/328/106 -
PL-4	5	VOLA T10 SOAP DISPENSER NATURAL BRASS	GR228/328
PL-5A	7	32" KOHLER PURIST GRAB BAR BRASS FINISH	GR228/328/106 - OU
PL-5B	1	24" KOHLER PURIST GRAB BAR BRASS FINISH	GR228/328 - OUTDOOR
PL-6	3	LOURE 24" DOUBLE TOWEL BAR BRASS FINISH	OUTDOOR WOMEN'S
PL-7	3	PURIST WALL MOUNT SHOWERHEAD BRASS FINISH	GR 106/228/328
PL-8	3	PURIST WALL MOUNTED VALVE BRASS FINISH	GR 106/228/328
PL-9	5	PURIST TOILET PAPER HOLDER BRASS FINISH	GR 106/228/328
PL-10	5	ARCHER ROBE HOOK BRASS FINISH	GR228/328/106 - OUTDOOR WC
PL-11	2	PIPE RFFP02 - FLOOR STANDING SHOWER	GR228/328/106 - OUTDOOR WC
			POOL DECK
PL-13	2	SINGLE HOLE FAUCET. DORNBRACHT 22513892 MATTE WHITE	
PL-14	2	DRAIN. DORNBRACHT 10200970. MATTE WHITE	OUTDOOR BATHROOMS
PL-15	1	24" SINGLE TOWEL BAR BRASS FINISH	OUTDOOR BATHROOMS
			GUESTROOM WC
****ALL METAL FIXTURES TO HAVE SAME FINISH****			

1 ENLARGED LOBBY FINISH PLAN
SCALE: 1/4" = 1'-0"

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KEY NOTES

A. JUNCTION BOX TO BE INSTALLED BUT NO LIGHT FIXTURE

B. POOL STORAGE

C. AT RESTAURANT SHELL SPACE PROVIDE JOINT BOXES FOR FUTURE LIGHTING

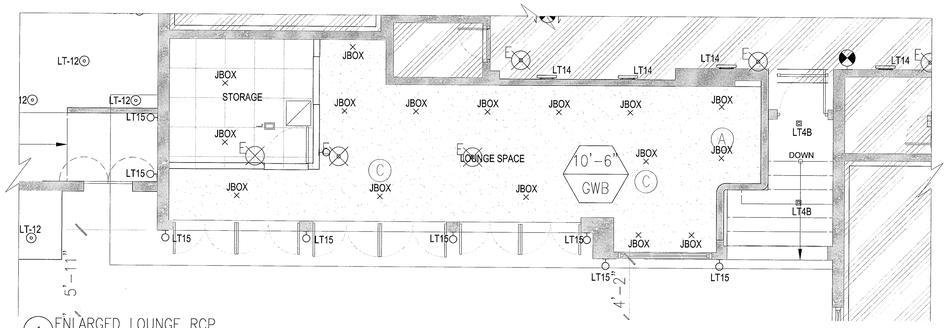
D. STORAGE

PLUMBING SCHEDULE

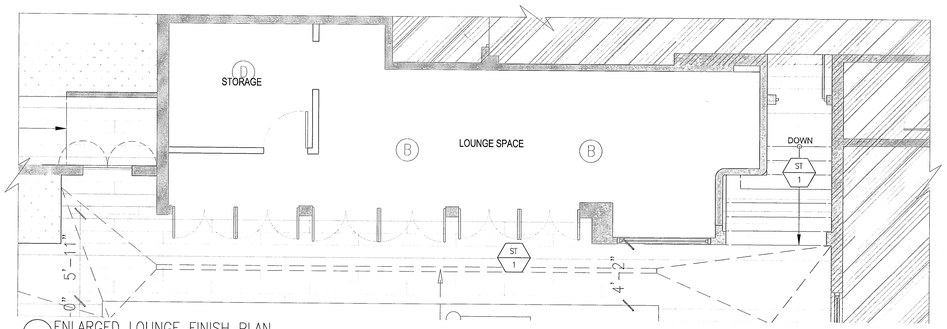
TAG	QUANITTY	DESCRIPTION	LOCATION	MANUFACTURER
PL-1	5	WALL MOUNTED TOILET - DURAVIT 222509	GR228/328/106 - OUTDOOR WC	DURAVIT
PL-2	5	WASHBASIN WITH OVERFLOW - DURAVIT D30025 SINGLE HOLE	GR228/328/106 - OUTDOOR WC	DURAVIT
PL-3	5	KV1 ONE HANDLE MIXER BRASS FINISH	GR228/328/106	VOLA
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		****ALL METAL FIXTURES TO HAVE SAME FINISH****		

GENERAL RCP PLAN LEGEND

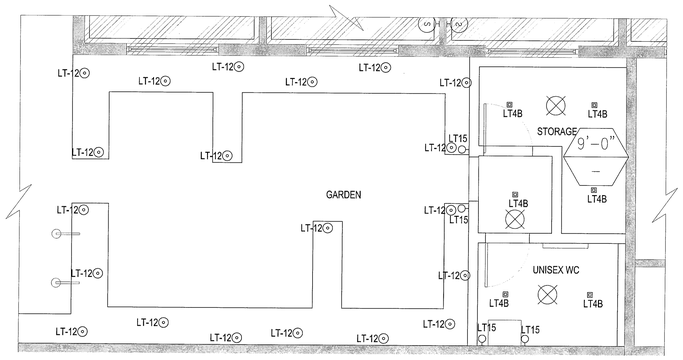
- NEW PARTITION
- EXISTING PARTITION TO REMAIN
- N.I.C. SHADING
- EXISTING STRUCTURE
- CEILING GRID SYS.
- GWB CEILING/SOFFIT
- CEILING HEIGHT KEY — CEILING HEIGHT - A.F.F. / CEILING TYPE
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- KEY NOTE INDICATOR
- LINEAR DIFFUSER
- DOWNLIGHT
- PENDANT LIGHT FIXTURE
- WALL SCONCE
- WALL MOUNTED EXIT SIGN (EXISTING)
- NEW SPRINKLER HEAD
- EXISTING SPRINKLER HEAD
- EXISTING WALL SPRINKLER HEAD
- EXIT SIGN
- UNDER CABINET LIGHT



1 ENLARGED LOUNGE RCP
SCALE: 1/4" = 1'-0"

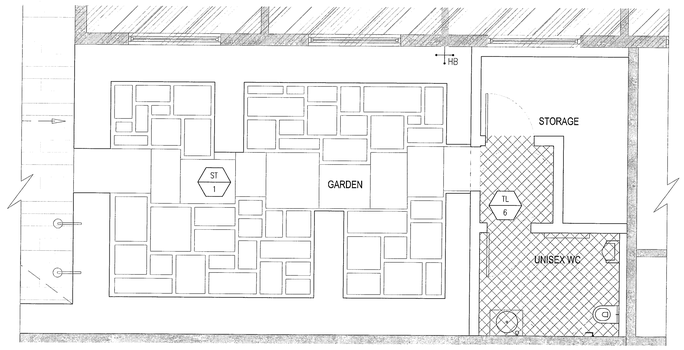


2 ENLARGED LOUNGE FINISH PLAN
SCALE: 1/4" = 1'-0"

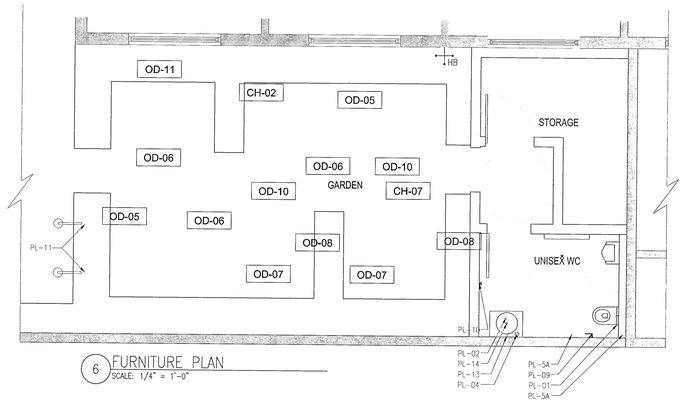


3 ENLARGED OUTDOOR BATHROOM RCP
SCALE: 1/4" = 1'-0"

4 NOT USED
SCALE: 1/4" = 1'-0"



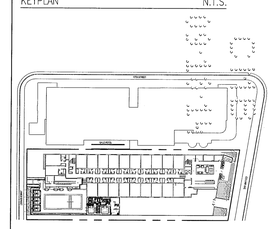
5 GARDEN & OUTDOOR BATHROOM FINISH PLAN
SCALE: 1/4" = 1'-0"



6 FURNITURE PLAN
SCALE: 1/4" = 1'-0"

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE
1	ISSUE FOR EXTERIOR FACADE PERMIT	05.06.14
2	RESPONSE TO CMB COMMENTS	06.28.14
3	PERMIT COMMENTS	09.10.14

PERMIT SET

NORTH SEAL

9.15.14
Jonathan Cardello
Lic. # AR93391

ADD Inc Architecture Interiors Planning

One Biscayne Tower
Suite 1670
Two South
Biscayne Boulevard
Miami, Fl 33131
T. 305.482.8700
F. 305.482.8770
www.addinc.com
Lic. # AA26001507

Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
SCALE: 1/4" = 1'-0"

SHEET TITLE

GARDEN AND LOUNGE RCP AND FINISH PLAN

SHEET NUMBER

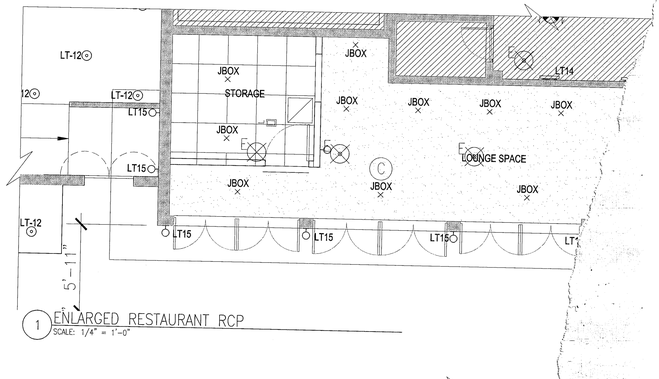
A212

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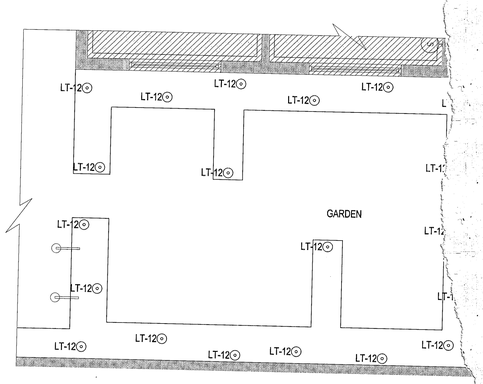
City of Miami Beach
Fire Prevention Division
PLANS APPROVED

GENERAL NOTES

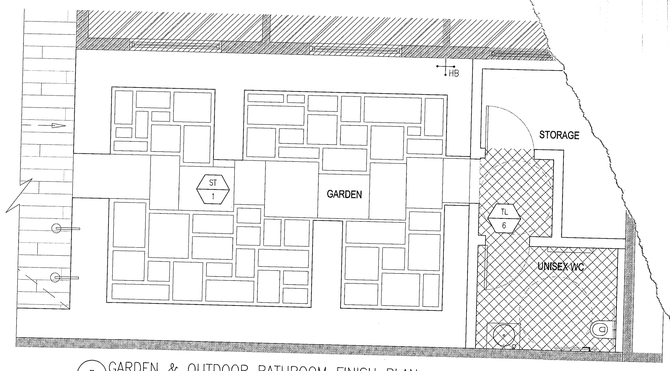
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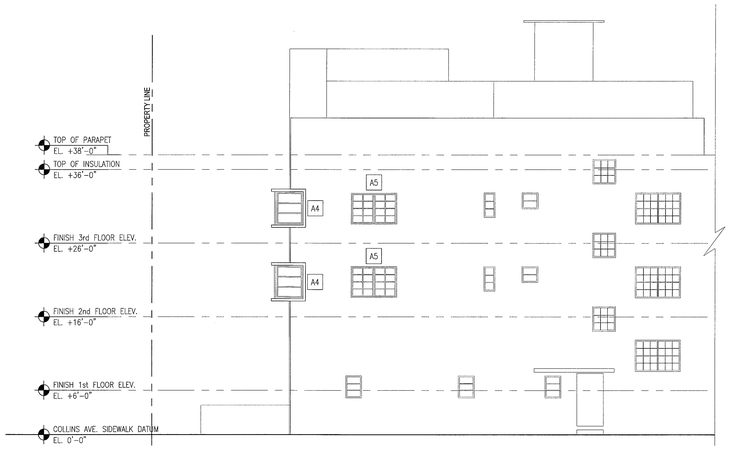
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SCALE: 1/4" = 1'-0"



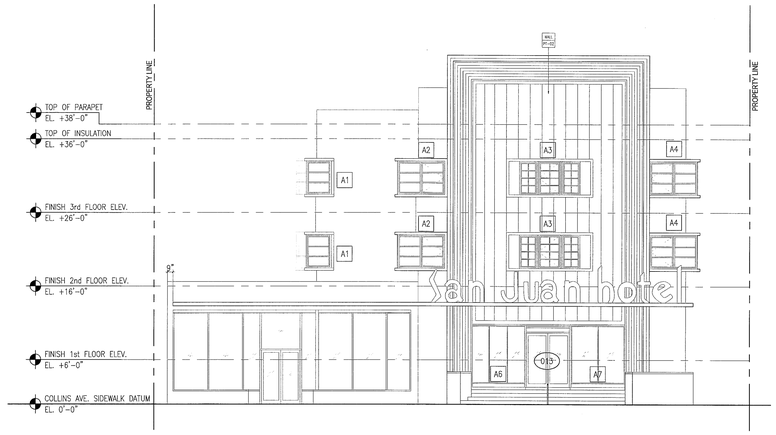
3 ENLARGED OUTDOOR BATHROOM RCP
SCALE: 1/4" = 1'-0"



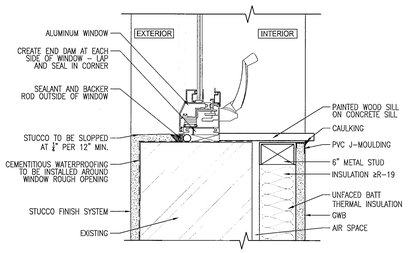
5 GARDEN & OUTDOOR BATHROOM FINISH PLAN
SCALE: 1/4" = 1'-0"



1 PARTIAL NORTH FACADE
SCALE: 1/8" = 1'-0"



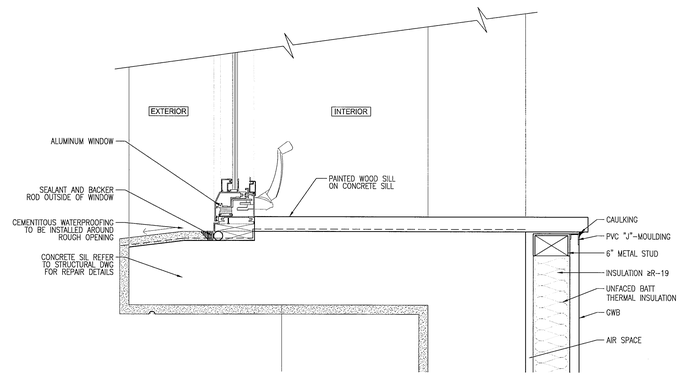
3 EAST FACADE
SCALE: 1/8" = 1'-0"



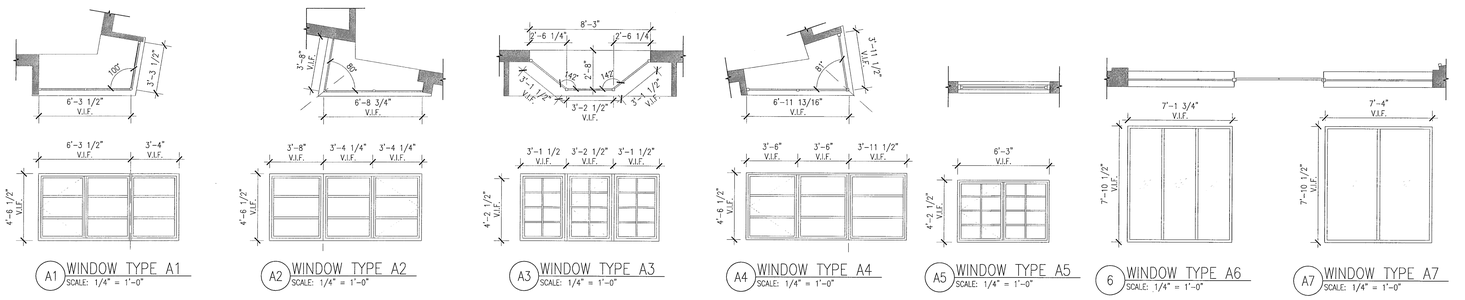
4 TYPICAL WINDOW SECTION DETAIL
SCALE: 1" = 1'-0"



2 SOUTH FACADE
SCALE: 1/8" = 1'-0"



5 WINDOW SECTION DETIAL
SCALE: 1" = 1'-0"



A1 WINDOW TYPE A1
SCALE: 1/4" = 1'-0"

A2 WINDOW TYPE A2
SCALE: 1/4" = 1'-0"

A3 WINDOW TYPE A3
SCALE: 1/4" = 1'-0"

A4 WINDOW TYPE A4
SCALE: 1/4" = 1'-0"

A5 WINDOW TYPE A5
SCALE: 1/4" = 1'-0"

6 WINDOW TYPE A6
SCALE: 1/4" = 1'-0"

A7 WINDOW TYPE A7
SCALE: 1/4" = 1'-0"

SHEET NOTES

A	NEW SKIM COAT STUCCO FINISH TO MAKE SMOOTH (PAINT PT-02) ON VISIBLE FACADE	H	NEW PIVOT DOORS..
B	NEW STOREFRONT IMPACT GLASS	I	EXTENDED STAIRCASE AND MOVE OUT TO CREATE LANDING
C	EXTENDED EYEBROW	J	NEW ENTRY, SIGNAGE BEYOND, AND LOCKABLE GATE, PROVIDE POWER FOR NEW SIGNAGE
D	REPLACE STONE WALL W/ HISTORIC KEYSTONE ST-1	K	MANUFACTURE NEW HISTORIC SIGNAGE TO BE REPLICATED TO "SAN JUAN HOTEL"
E	REFINISH TERRAZZO STAIRS AS NEEDED	L	NEW OUTDOOR BATHROOM AND STORAGE
F	NEW WINDOWS ON ENTIRE EAST FACADE AND FIRST BAY OF NORTH & SOUTH FACADE	M	WIDEN BAY TO ACCOMMODATE WINDOW A12
G	ALL "I LOVE LIQUOR" STOREFRONT WINDOWS TO REMAIN	N	NEW LANDING TO MATCH HISTORIC TERRAZZO

WINDOWS

Qty	Mark	Window No.	Width	Height	LOCATION
2	A1	A1	10'-11 1/2"	4'-6 1/2"	RM 203/303 - S. FACADE
2	A2	A2	10'-4 1/2"	4'-6 1/2"	RM 202/302 - E. FACADE
2	A3	A3	9'-6 1/2"	4'-6 1/2"	RM 201/301 - N. FACADE
2	A4	A4	9'-7 1/2"	4'-6 1/2"	RM 200/300 - E. FACADE
5	A5	A5	5'-0 3/4"	4'-2 1/2"	N./S. FACADES
1	A6	A6	7'-1 3/4"	7'-10 1/2"	STOREFRONT - LOBBY
1	A7	A7	7'-4"	7'-10 1/2"	STOREFRONT - LOBBY

FENESTRATION NOAs (Notice of Acceptance)

1	CA-740 OUTSWING ALUMINUM CASEMENT WINDOW	L.M.I. NOA 12-1218.09
2	CA-740 FIXED ALUMINUM WINDOW	L.M.I. NOA 12-1218.09

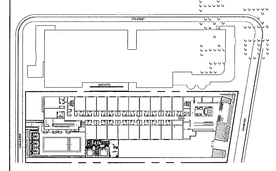
NOTES:

1. ALL DIMENSIONS TO BE USED AS A GUIDE FOR ESTIMATION PURPOSES ONLY. ALL OPENINGS MUST BE VERIFIED IN FIELD.
2. A MINIMUM OF 1" OVERALL INSULATED GLASS ASSEMBLY WITH RATING 52 STC
3. MATCH "U" FACTOR ≤ 0.45 TO MEET ENERGY CODE CALCULATIONS
4. SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO FABRICATION
5. WINDOW FRAME TO HAVE KYNAR ANTIQUE SILVER FINISH
6. ALL CASEMENT WINDOWS SHALL HAVE A MAX OPENING OF 4"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE

WINDOW REPLACEMENT PERMIT SET

NORTH SEAL

Jonathan Cardello
Lic. # AR93391

ADD Inc Architecture Interiors Planning

One Biscayne Tower
Suite 1670
Two South
Biscayne Boulevard
Miami, Fl 33131
T. 305.482.8700
F. 305.482.8770
www.addinc.com
Lic. # AA26001507

Boston Miami

JOB NUMBER:	13023.00
CHECKED BY:	
ISSUE DATE:	MAY 06, 2014
SCALE:	AS NOTED

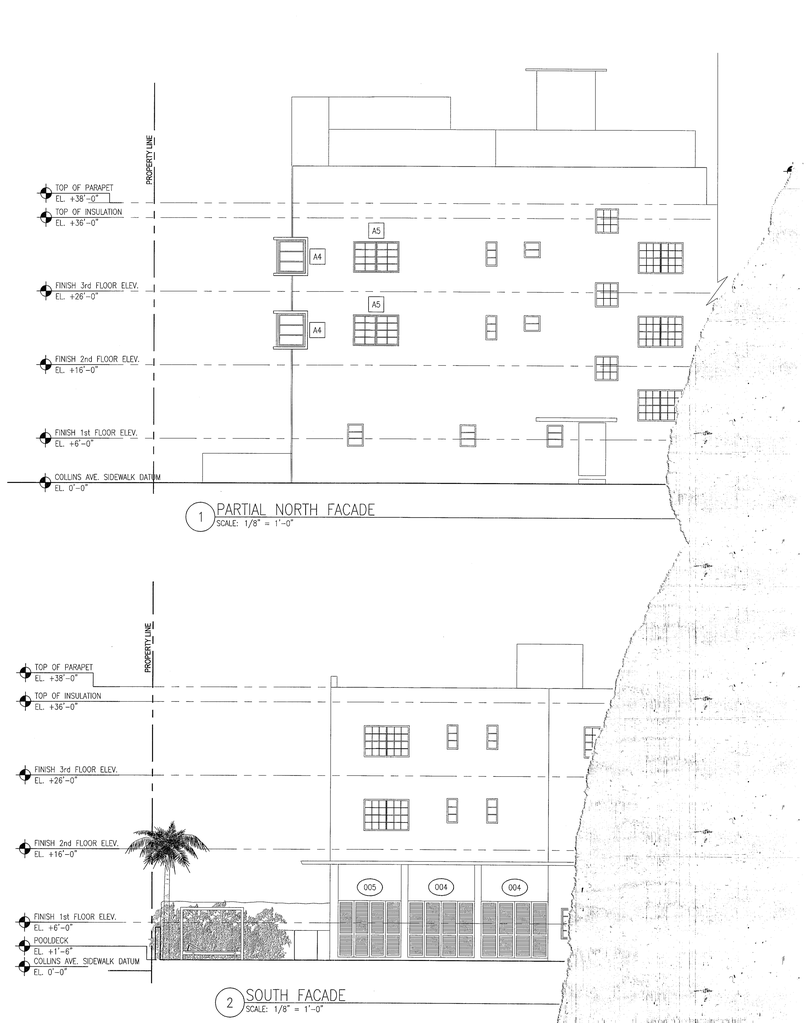
TITLE

WINDOW AND STOREFRONT DETAILS

SHEET NUMBER

A431

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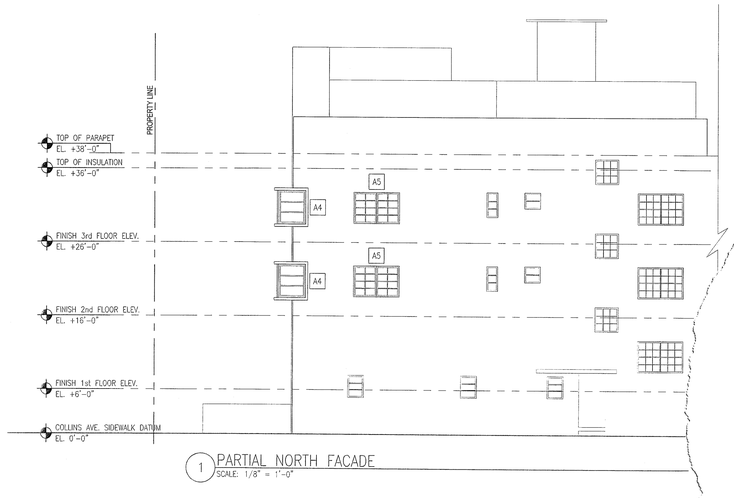


1 PARTIAL NORTH FACADE
SCALE: 1/8" = 1'-0"

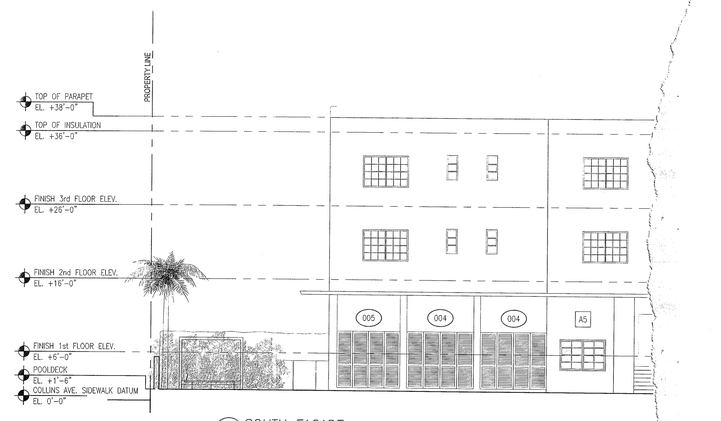
2 SOUTH FACADE
SCALE: 1/8" = 1'-0"

SHEET NOTES

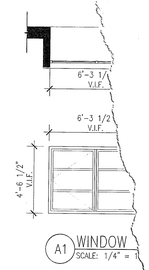
A	NEW SKIM COAT STUCCO FINISH TO MAKE SMOOTH (PAINT PT-02) ON VISIBLE FACADE
B	NEW STOREFRONT IMPACT GLASS
C	EXTENDED EYEBROW
D	REPLACE STONE WALL W/ HISTORIC KEYSTONE ST-1
E	REFINISH TERRAZZO STAIRS AS NEEDED
F	NEW WINDOWS ON ENTIRE EAST FACADE AND FIRST BAY OF NORTH & SOUTH FACADE
G	ALL "I LOVE LIQUOR" STOREFRONT WINDOWS TO REMAIN
H	NEW I
I	EXTENDED CREATE LAN
J	NEW ENTRY, SIGN GATE, PROVIDE POW
K	MANUFACTURE NEW HIST REPLICATED TO "SAN JUAN
L	NEW OUTDOOR BATHROOM AND
M	WIDEN BAY TO ACCOMMODATE WINDO
N	NEW LANDING TO MATCH HISTORIC TERRA



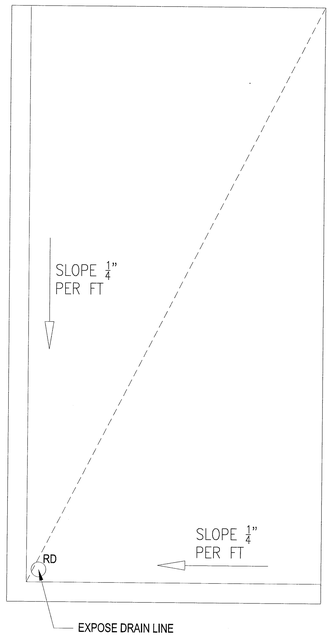
1 PARTIAL NORTH FACADE
SCALE: 1/8" = 1'-0"



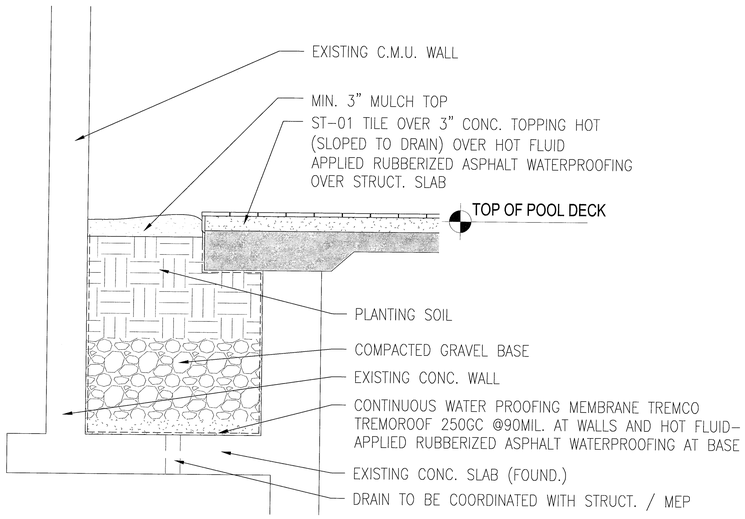
2 SOUTH FACADE
SCALE: 1/8" = 1'-0"



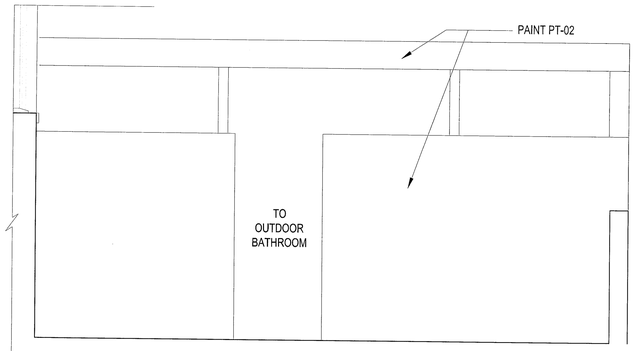
A1 WINDOW
SCALE: 1/4" = 1



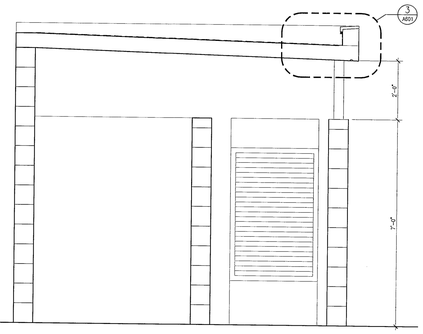
5 OUTDOOR BATHROOM ROOF PLAN
SCALE: 1/2" = 1'-0"



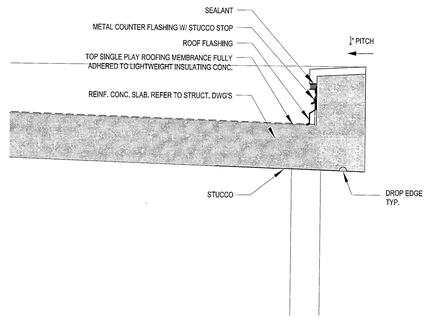
4 POOL SIDE PLANTER DETAIL
SCALE: 1" = 1'-0"



1 OUTDOOR BATHROOM ELEVATION
SCALE: 1/2" = 1'-0"



2 OUTDOOR BATHROOM ELEVATION
SCALE: 1/2" = 1'-0"

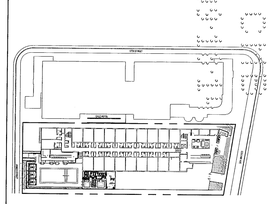


3 ROOF PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

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1	ISSUE FOR EXTERIOR FACADE PERMIT	05.06.14
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PERMIT SET

NORTH SEAL

9-15-14
Jonathan Cardello
Lic. # AR93391

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Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
SCALE: AS NOTED

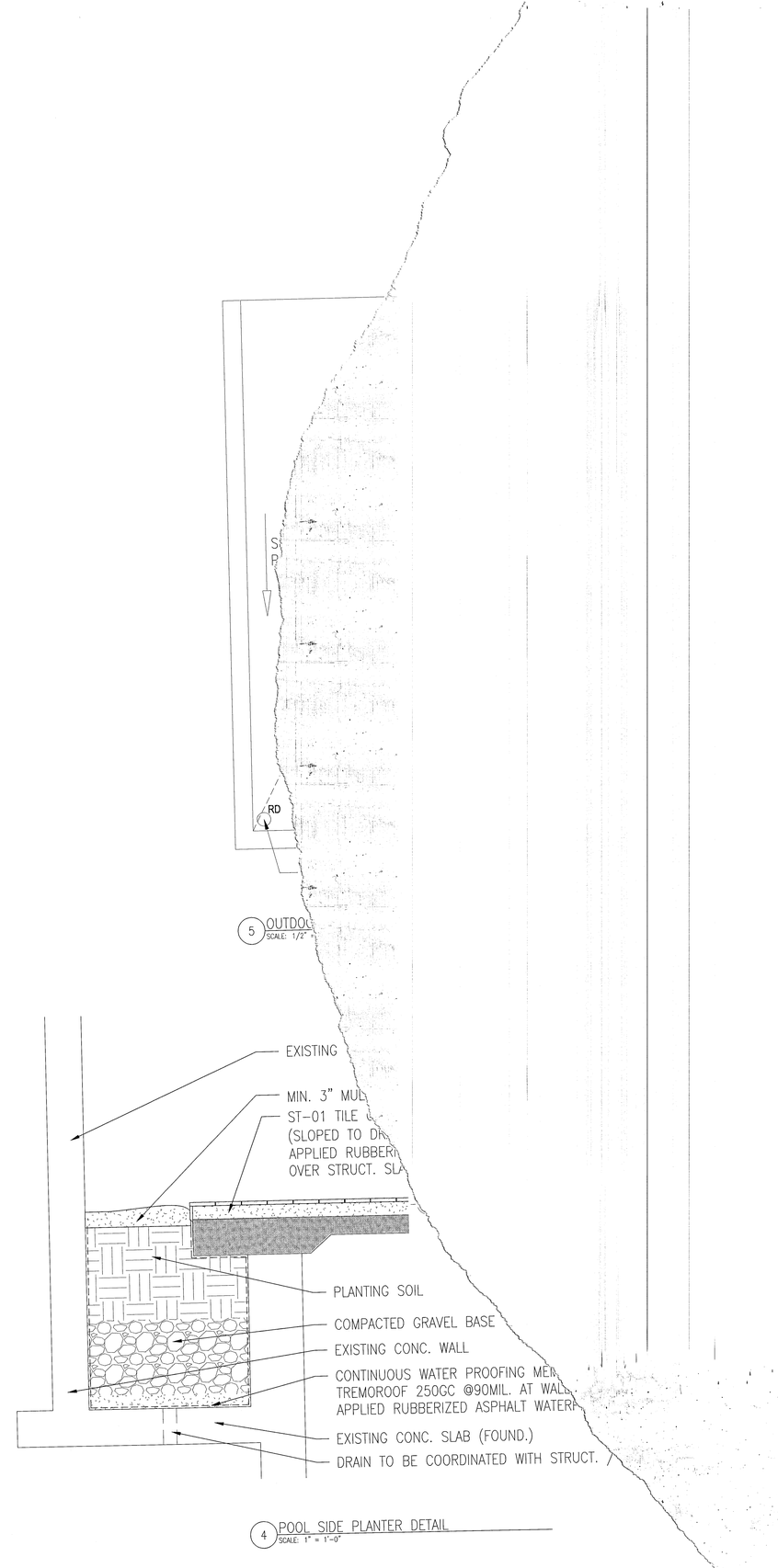
SHEET TITLE

OUTDOOR BATHROOM PLANS & ELEVATIONS PLANTER DETAIL

SHEET NUMBER

A601

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5 OUTDOO
SCALE: 1/2" =

4 POOL SIDE PLANTER DETAIL
SCALE: 1" = 1'-0"

SHEET NOTES

1. FLOORING TRANSITIONS AT DOOR OPENING TO OCCUR UNDERNEATH DOOR, U.O.N. PROVIDE "SCHLUTER" METAL TRANSITION STRIPS AT ALL CARPET–TILE/VINYL TRANSITIONS. METAL COLOR TBD BY ARCHITECT PRIOR TO INSTALLATION.
2. FLOOR FINISHES AND WALL BASE TO CONTINUE UNDER COUNTER TOPS, ANY MILLWORK OPENINGS, AND HC KITCHEN SINK CABINETS.
3. PROVIDE TRANSITION STRIPS AT ALL LOCATIONS WHERE CARPET AND TILE/SHEET FLOORING MEET. VERIFY COLOR WITH ARCHITECT PRIOR TO INSTALLATION. SEE TRANSITION DETAILS ON M-A712 FOR FURTHER INFORMATION.
4. VINYL BASE TO BE STRAIGHT AT CARPETED AREAS AND COVE AT VCT/SHEET FLOORING AREAS, TYPICAL.
5. VERIFY FLOOR FINISH LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION. (TILE LAYOUT, SEAMING DIAGRAMS, ETC.)
6. FOR ADDITIONAL FINISH INFORMATION, SEE FINISH SCHEDULE.
7. ALL BASE TO BE B-1, U.O.N.
8. TILE/CARPET TRANSITION TO BE LEVELED. FLOAT FLOOR AS REQUIRED.
9. IN ORDER TO RECEIVE FURNITURE SYSTEM INSTALLATION, EXISTING CONCRETE FLOOR MUST BE LEVELED BEFORE APPLYING ANY NEW FLOORING.
10. ALL CARPET ADHESIVES, WALLPAPER ADHESIVES, PAINTS AND PRIMERS TO BE LOW VOC AND PRODUCT NO OFF GASSING.
11. NOTIFY THE ARCHITECT OF ANY UNEXPECTED FIELD CONDITION OR ANY DISCREPANCY BEFORE PROCEEDING. GENERAL CONTRACTOR IS TO COORDINATE THE COMPLETE SCOPE OF WORK WITH CONSTRUCTION DOCUMENTS.
12. ALL GENERAL WALLS (IN AND OUT OF GREY AREA) ARE TO BE PAINTED P-2 UNLESS OTHERWISE NOTED FOR ACCENT WALLS.
    NEW SURFACES: 1-COAT PRIMER, 2-TOP COATS
    EXIST SURFACES: 1-COAT PRIMER, 1-TOP COAT
    M.W.DOORS & FRAMES: 2-TOP COATS P-3
13. U.O.N. ALL EXISTING VINYL WALL BASE TO REMAIN, PROTECT & PRESERVE.
14. SEE ELEVATIONS ON SHEET LM-A734 FOR ADDITIONAL FINISH INFORMATION.
15. TYPICAL: ALL EXISTING AND NEW METAL DOOR FRAMES TO BE PAINTED IN SATIN FINISH. SEE DOOR SCHEDULE SHEET LM-102 FOR ADDITIONAL FINISH REQUIREMENTS.
16. ALL WOOD MATERIAL SHALL BE USED, ALL WOOD SHALL BE INHERENTLY FIRE RETARDANT PER THE FFPC 2010 CHAP 10 & TABLE A.10.2.2 FOR EXISTING HOTEL

KEY NOTES

- (A) REFER TO ELEVATIONS FOR ALL WALL FINISH INFORMATION.
- (B) REFINISH TERRAZZO AND PATCH ANY CRACKS
- (C) ALL WOOD FINISHES TO BE INHERENTLY FIRE RETARDANT
- (D) NOT USED
- (E) NOT USED
- (F) ELEVATOR FLOOR, WALLS, AND CEILING TO BE REFINISHED
- (G) EXISTING ACCESS TO BASEMENT
- (H) NOT USED
- (I) COORDINATE TYPICAL DRAINAGE WITH G.C.
- (J) NOT USED

GENERAL PLAN LEGEND

NEW PARTITION
EXISTING PARTITION TO REMAIN
N.I.C. SHOWING
EXISTING STRUCTURE
KEY NOTE INDICATOR
INDICATES DIRECTION OF DOMINANT STRIPE IN CARPET
TYP.
DETAIL REF.
XX / X — FINISH TAG
VCT / 1–4 — DENOTES SPEC. SEE FINISH SCHEDULE FOR CORRESPONDING NUMBER

C/1 · C/2 · W/2 · TL/4 · ST/1 · TL/1 · TL/2 · TL/3 · ST/1 · ST/2 · ST/3 · M/1

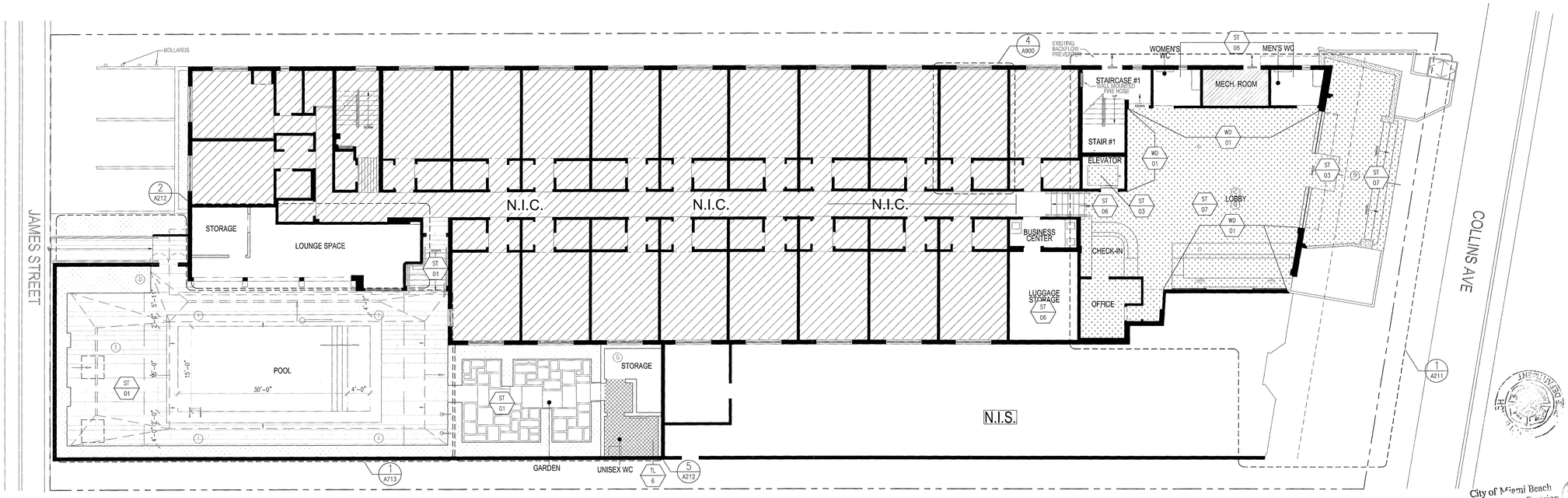
FINISH SCHEDULE

TAG	DESCRIPTION	LOCATION	TYPE	MANUFACTURER/SUPPLIER
TL-01	NOT USED			
TL-02	NOT USED			
TL-03	NOT USED			
TL-04	NOT USED			
TL-05	ROYAL MINK HONED 9 X18	OUTDOOR BATHROOM	WALL	TILE & MARBLE BY BRASTILE
TL-06	BIANCO CORAL STONE 12 X 24	OUTDOOR BATHROOM	FLOOR	TILE & MARBLE BY BRASTILE
ST-01	KEYSTONE / SHELLSTONE	POOL DECK TILE / REST.	FLOOR	TILE & MARBLE BY BRASTILE
ST-02	WHITE QUARTZ	LOBBY BAR & BATHROOM	COUNTERTOP	TILE & MARBLE BY BRASTILE
ST-03	NEW TERRAZZO MATCH EXISTING TERRAZZO COLOR	ELEVATOR / LOBBY STAIRS	FLOOR	TBD
ST-04	SEQUOIA BROWN LEATHER SLAB BOOKMATCHED	LOBBY	WALL	OPUS STONE
ST-05	CORAL STONE	OUTDOOR BATHROOM	COUNTERTOP	TILE & MARBLE BY BRASTILE
ST-06	MOCA CREAM	HALLWAY/GR/OFFICE/LOBBY WC	FLOOR	TILE & MARBLE BY BRASTILE
ST-07	EXISTING TERRAZZO REFINISHED	LOBBY / BOH	FLOOR	
CT-01	NOT USED			
WD-01	RIFT CUT OAK WOOD LIGHT STAIN FINISH	GUESTROOM/LOBBY/BAR	BAR/WALL/CEILING	
WD-02	TEAK WOOD	ENTRY PORCH	BUILT IN SEATING	
PT-01	WHITE MATTE PAINT	RESTAURANT	FLOOR / WALLS	
PT-02	EXTERIOR WHITE MATTE PAINT	N, S, E, W FACADES	EXTERIOR WALLS	SHERWIN WILLIAMS W/ INSULAD*
PT-03	NOT USED			
PT-04	CERAMIC FINISH	GUESTROOMS/CORRIDOR	WALL/CEILINGS	MDC CERAMIC
PT-05	NOT USED			
PT-06	NOT USED			
PT-07	638 SILVER GRAY (56)	OUTDOOR WC ANTEROOM	WALLS	SHERWIN WILLAMS

*ADDITIVE AS ALTERNATE

SOURCES

#	COMPANY	CONTACT	PHONE	EMAIL
1	DALTILE			
2	TILE AND MARBLE BY BRASTILE	BARBAREE KING	305 770-9298 x 117	
3	INTERFACE	GLENDA KISNER		GLENDA.KISNER@INTERFACE.COM

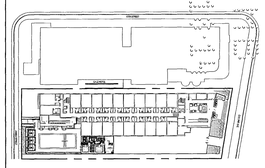


1 FIRST FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



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Lic. # AA26001507

Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
SCALE: 1/8" = 1'-0"

SHEET TITLE

FIRST FLOOR FINISH PLAN

SHEET NUMBER

A711

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SHEET NOTES

1. FLOORING TRANSITIONS AT DOOR OPENING TO OCCUR UNDERNEATH DOOR, U.O.N. PROVIDE "SCHLUTER" METAL TRANSITION STRIPS AT ALL CARPET-TILE/VINYL TRANSITIONS. METAL COLOR TBD BY ARCHITECT PRIOR TO INSTALLATION.
2. FLOOR FINISHES AND WALL BASE TO CONTINUE UNDER COUNTER TOPS, ANY MILLWORK OPENINGS, AND HC KITCHEN SINK CABINETS.
3. PROVIDE TRANSITION STRIPS AT ALL LOCATIONS WHERE CARPET AND TILE/SHEET FLOORING MEET. VERIFY COLOR WITH ARCHITECT PRIOR TO INSTALLATION. SEE TRANSITION DETAILS ON M-A712 FOR FURTHER INFORMATION.
4. VINYL BASE TO BE STRAIGHT AT CARPETED AREAS AND COVE AT VCT/SHEET FLOORING AREAS, TYPICAL
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6. FOR ADDITIONAL FINISH INFORMATION, SEE FINISH SCHEDULE.
7. ALL BASE TO BE B-1, U.O.N.
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10. ALL CARPET ADHESIVES, WALLPAPER ADHESIVES, PAINTS AND PRIMERS TO BE LOW VOC AND PRODUCT NO OFF GASSING.
11. NOTIFY THE ARCHITECT OF ANY UNEXPECTED FIELD CONDITION OR ANY DISCREPANCY BEFORE PROCEEDING. GENERAL CONTRACTOR IS TO COORDINATE THE COMPLETE SCOPE OF WORK WITH CONSTRUCTION DOCUMENTS.
12. ALL GENERAL WALLS (IN AND OUT OF GREY AREA) ARE TO BE PAINTED P-2 UNLESS OTHERWISE NOTED FOR ACCENT WALLS.
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    H.M.DOORS & FRAMES: 2-TOP COATS P-3
13. U.O.N. ALL
14. SEE ELE
15. TYPICA FINISH REQUI
16. ALL RETAI

1 FIRST FLOOR FINISH PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

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14. SEE ELEVATIONS ON SHEET LM-A734 FOR ADDITIONAL FINISH INFORMATION.
15. TYPICAL: ALL EXISTING AND NEW METAL DOOR FRAMES TO BE PAINTED IN SATIN FINISH. SEE DOOR SCHEDULE SHEET LM-102 FOR ADDITIONAL FINISH REQUIREMENTS.
16. ALL WOOD MATERIAL SHALL BE USED, ALL WOOD SHALL BE INHERENTLY FIRE RETARDANT PER THE FFPC 2010 CHAP 10 & TABLE A.10.2.2 FOR EXISTING HOTEL

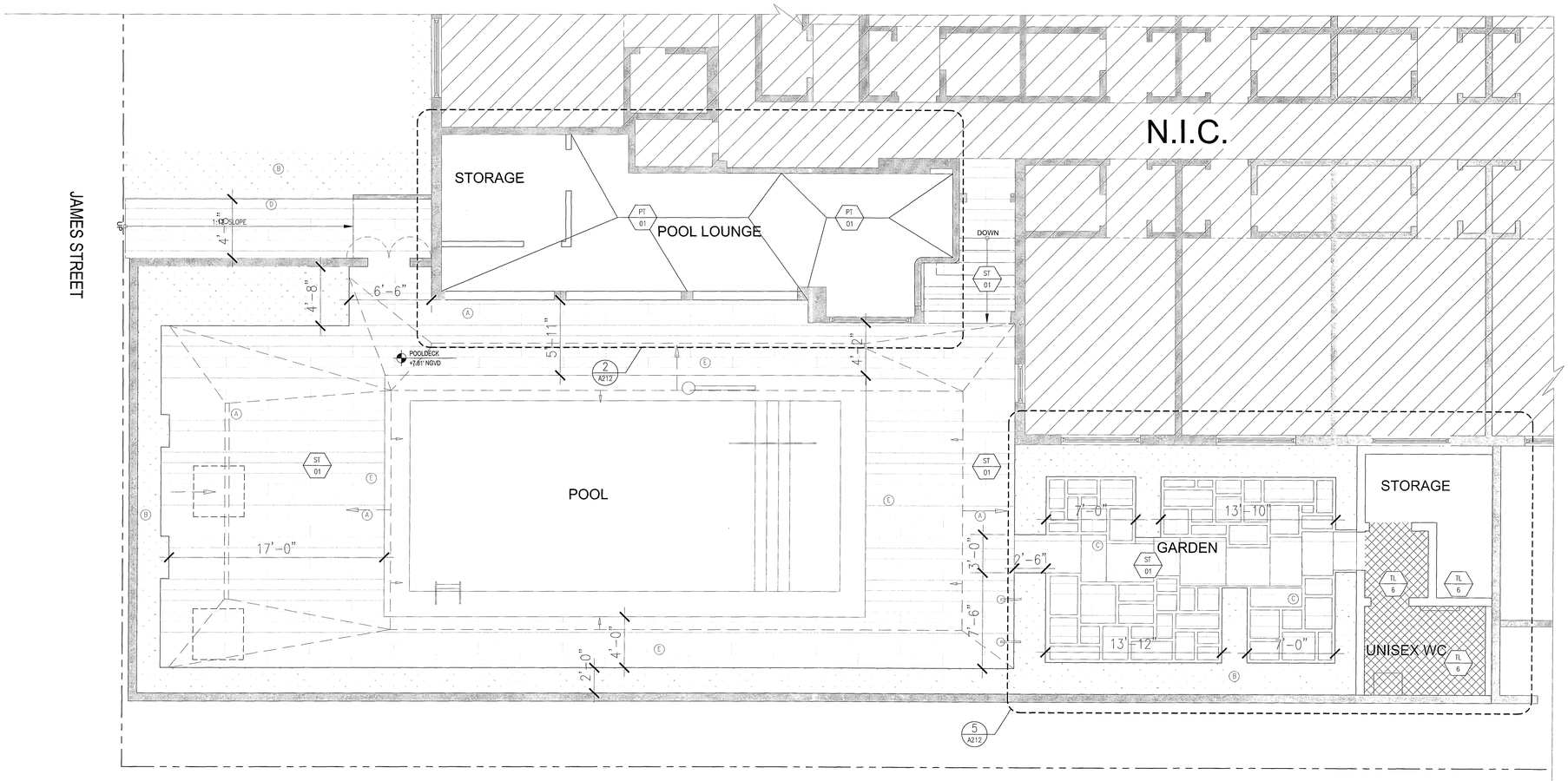
KEY NOTES

- (A) SEE PLUMBING DRAWINGS FOR LOCATION / COORDINATION OF DECK DRAINAGE.
- (B) NEW SOIL TO BE USED TO A MINIMUM DEPTH OF 6'0" IN NEW PLANTER AREAS.
- (C) MONDO GRASS AT GAPS BETWEEN STONE PAVERS IN GARDEN AREA
- (D) CURB CLAD IN ST-01, TYP.
- (E) ALL POOL DECK SHALL SLOPE 2% AWAY FROM POOL TO DRAINS OR LANDSCAPED AREAS. THE SLOPE SHALL BE CONTINUOUS WITH NO BREAKS FOR A 4' MIN. APRON AROUND POOL PERIMETER.

GENERAL PLAN LEGEND

NEW PARTITION
EXISTING PARTITION TO REMAIN
N.I.C. SHADING
EXISTING STRUCTURE
KEY NOTE INDICATOR
INDICATES DIRECTION OF DOMINANT STRIPE IN CARPET
TYP.
DETAIL REF.
FINISH TAG
# DENOTES SPEC SEE FINISH SCHEDULE FOR CORRESPONDING NUMBER

C 1 | C 2 | W 2 | TL 4 | ST 1 | FL 1 | FL 2 | FL 3 | VCT 1-4 | ST 1 | ST 2 | W 1

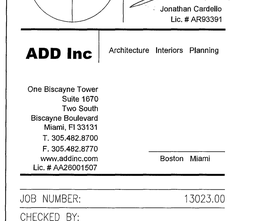


1 ENLARGED POOL DECK, RESTAURANT, AND GARDEN FINISH PLAN
SCALE: 1/4" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
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SHEET TITLE

ENLARGED POOL DECK FINISH PLAN

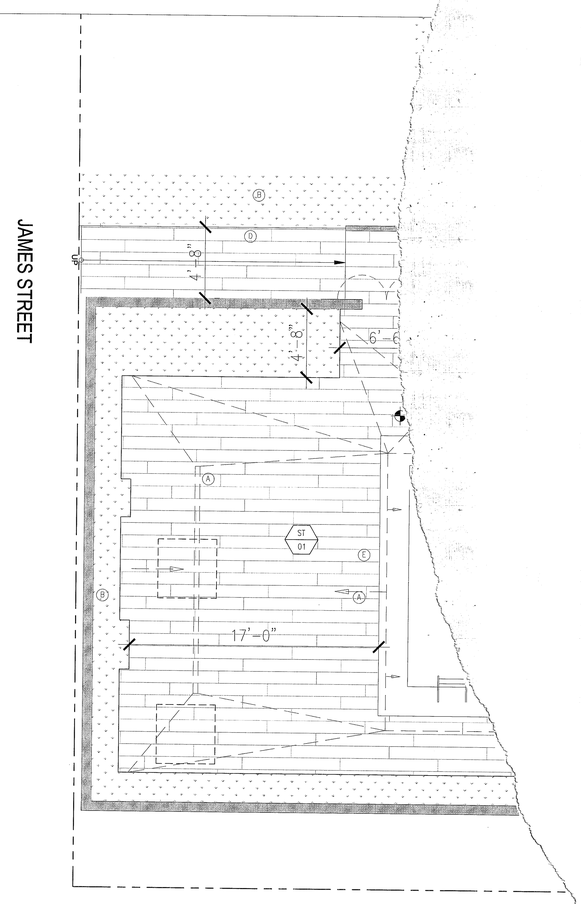
SHEET NUMBER

A712

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SHEET NOTES

1. FLOORING TRANSITIONS AT DOOR OPENING TO OCCUR UNDERNEATH DOOR, U.O.N. PROVIDE "SCHLUTER" METAL TRANSITION STRIPS AT ALL CARPET-TILE/VINYL TRANSITIONS. METAL COLOR TBD BY ARCHITECT PRIOR TO INSTALLATION.
2. FLOOR FINISHES AND WALL BASE TO CONTINUE UNDER COUNTER TOPS, ANY MILLWORK OPENINGS, AND HC KITCHEN SINK CABINETS.
3. PROVIDE TRANSITION STRIPS AT ALL LOCATIONS WHERE CARPET AND TILE/SHEET FLOORING MEET. VERIFY COLOR WITH ARCHITECT PRIOR TO INSTALLATION. SEE TRANSITION DETAILS ON M-A712 FOR FURTHER INFORMATION.
4. VINYL BASE TO BE STRAIGHT AT CARPETED AREAS AND COVE AT VCT/SHEET FLOORING AREAS, TYPICAL
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13. U.O.N. ALL EXISTING VINYL WALL BASE TO
14. SEE ELEVATIONS ON SHEET LM-A734 FO
15. TYPICAL: ALL EXISTING AND NEW METAL FINISH. SEE DOOR SCHEDULE SHEET REQUIREMENTS.
16. ALL WOOD FINISHES MUST COMPLY WITH RETARDANT.



1 ENLARGED POOL DECK, RESTAURANT, AND GARDEN FINISH PLAN
SCALE: 1/4" = 1'-0"

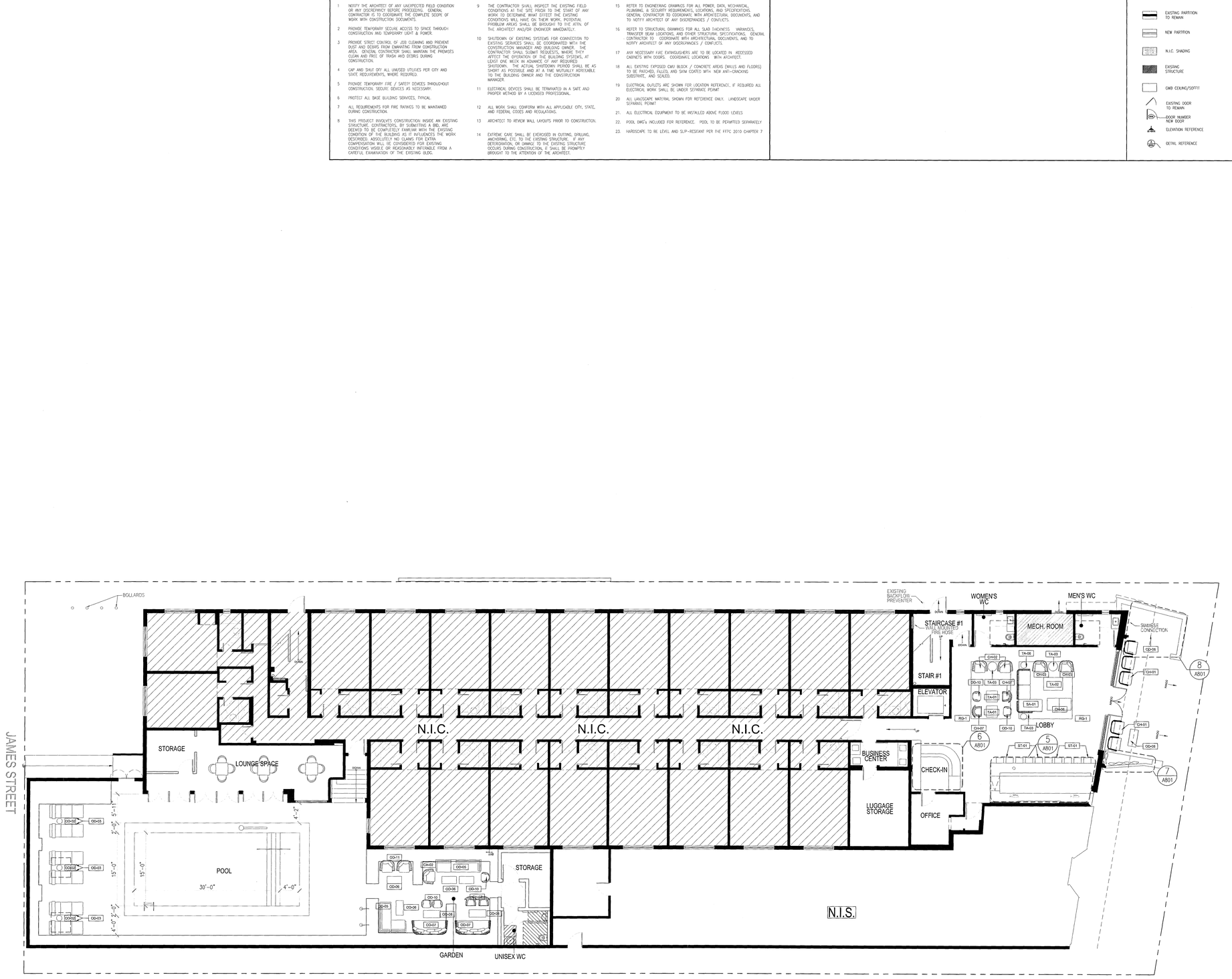
GENERAL NOTES

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2. PROVIDE TEMPORARY SECURE ACCESS TO SPACE THROUGH CONSTRUCTION AND TEMPORARY LIGHT & POWER.
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9. THE CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THEIR WORK. POTENTIAL PROBLEM AREAS SHALL BE BROUGHT TO THE ATTN. OF THE ARCHITECT AND/OR ENGINEER IMMEDIATELY.
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15. REFER TO ENGINEERING DRAWINGS FOR ALL POWER, DATA, MECHANICAL, PLUMBING, & SECURITY REQUIREMENTS, LOCATIONS, AND SPECIFICATIONS. GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DOCUMENTS, AND TO NOTIFY ARCHITECT OF ANY DISCREPANCIES / CONFLICTS.
16. REFER TO STRUCTURAL DRAWINGS FOR ALL SLAB THICKNESS VARIANCES, TRANSFER BEAM LOCATIONS, AND OTHER STRUCTURAL SPECIFICATIONS. GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DOCUMENTS, AND TO NOTIFY ARCHITECT OF ANY DISCREPANCIES / CONFLICTS.
17. ANY NECESSARY FIRE EXTINGUISHERS ARE TO BE LOCATED IN RECESSED CABINETS WITH DOORS. COORDINATE LOCATIONS WITH ARCHITECT.
18. ALL EXISTING EXPOSED CMU BLOCK / CONCRETE AREAS (WALLS AND FLOORS) TO BE PATCHED, FILLED, AND SKIM COATED WITH NEW ANTI-CRACKING SUBSTRATE, AND SEALED.
19. ELECTRICAL OUTLETS ARE SHOWN FOR LOCATION REFERENCE, IF REQUIRED ALL ELECTRICAL WORK SHALL BE UNDER SEPARATE PERMIT
20. ALL LANDSCAPE MATERIAL SHOWN FOR REFERENCE ONLY. LANDSCAPE UNDER SEPARATE PERMIT
21. ALL ELECTRICAL EQUIPMENT TO BE INSTALLED ABOVE FLOOD LEVELS
22. POOL DWG's INCLUDED FOR REFERENCE. POOL TO BE PERMITTED SEPARATELY
23. HARDSCAPE TO BE LEVEL AND SLIP-RESISTANT PER THE FFPC 2010 CHAPTER 7

SHEET NOTES

LEGEND

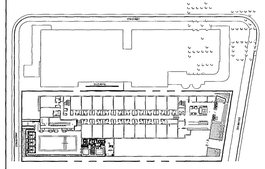
- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- N.I.C. SHADING
- EXISTING STRUCTURE
- CMB CEILING/SOFFIT
- EXISTING DOOR TO REMAIN
- DOOR NUMBER NEW DOOR
- ELEVATION REFERENCE
- DETAIL REFERENCE
- F.S. FLOOR SINK
- FD.-FLOOR DRAIN
- W.-WASTE OUTLET
- TD - TRENCH DRAIN
- LEVEL CHANGE
- 1 — STUD PARTITION
- 2 — NEW CMU WALL



1 FIRST FLOOR FURNITURE PLAN
SCALE: 1/8" = 1'-0"

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS		
NO.	DESCRIPTION	ISSUE DATE
1	ISSUE FOR EXTERIOR FACADE PERMIT	05.06.14
2	RESPONSE TO CMB COMMENTS	06.28.14
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PERMIT SET

NORTH SEAL

9.15.14
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Boston Miami

JOB NUMBER:	13023.00
CHECKED BY:	
ISSUE DATE:	JUNE 26, 2014
SCALE:	1/8" = 1'-0"

SHEET TITLE

FIRST FLOOR FURNITURE PLAN

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SHEET NUMBER

A721

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GENERAL NOTES

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16 REFER TO STRUCTU VARIANCES, TRAN STRUCTURAL DR COORDINATE W ARCHITECT OF

17 ANY NECESSA RECESSED CA WITH ARCHITEC

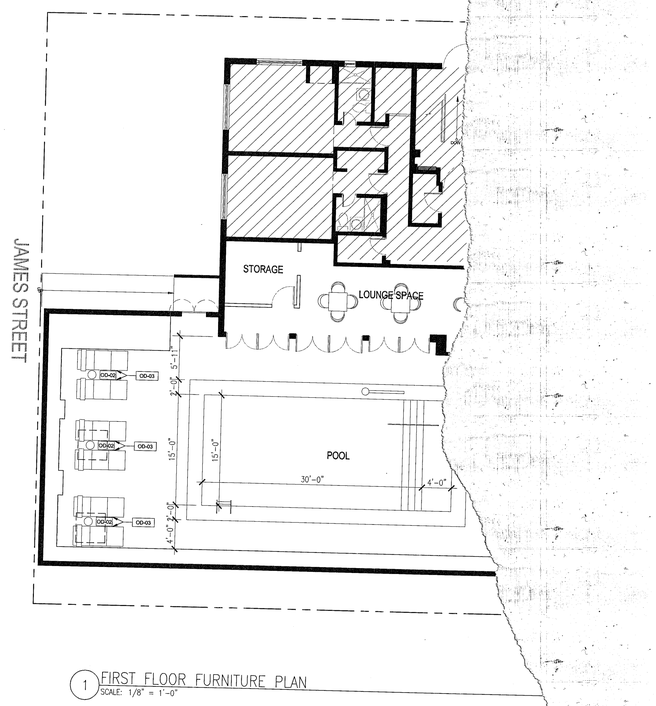
18 ALL EXISTING EX AND FLOORS) TO NEW ANTI-CRACK

19 ELECTRICAL OUTL REFERENCE, IF F UNDER SEPARA

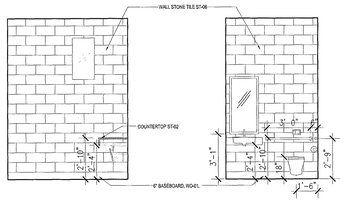
20 ALL LANDSC LANDSCAPI

21. ALL ELE LEVEL

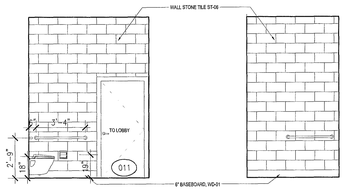
22. PO



1 FIRST FLOOR FURNITURE PLAN
SCALE: 1/8" = 1'-0"



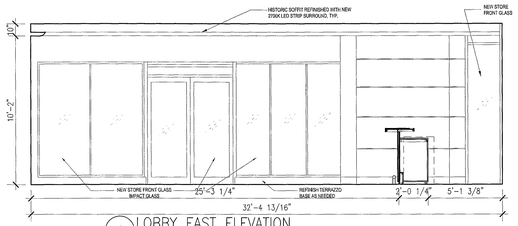
9 WOMEN'S WC N. ELEVATION
SCALE: 1/4" = 1'-0"



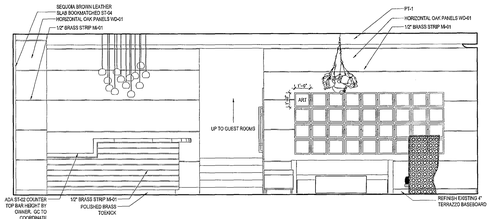
10 WOMEN'S WC E. ELEVATION
SCALE: 1/4" = 1'-0"

11 WOMEN'S WC S. ELEVATION
SCALE: 1/4" = 1'-0"

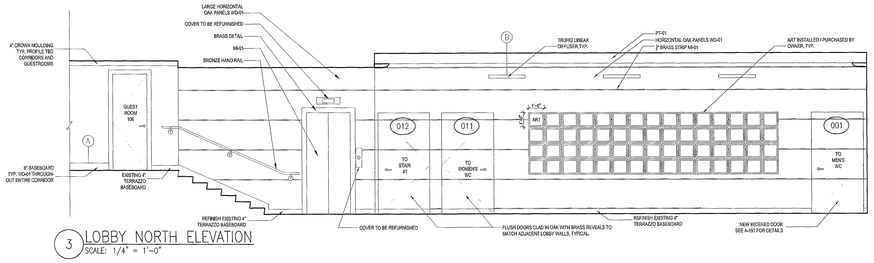
12 WOMEN'S WC W. ELEVATION
SCALE: 1/4" = 1'-0"



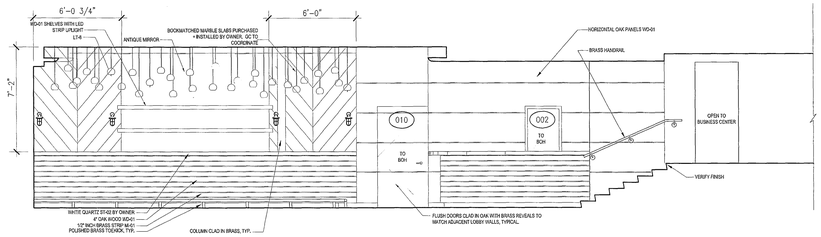
1 LOBBY EAST ELEVATION
SCALE: 1/4" = 1'-0"



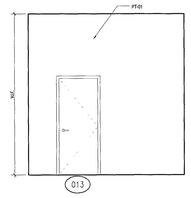
2 LOBBY WEST ELEVATION
SCALE: 1/4" = 1'-0"



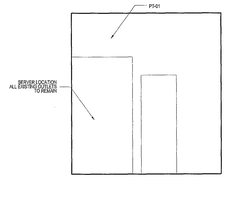
3 LOBBY NORTH ELEVATION
SCALE: 1/4" = 1'-0"



4 LOBBY SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



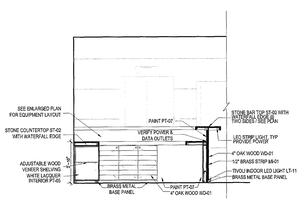
17 LUGGAGE ROOM N. ELEV.
SCALE: 1/4" = 1'-0"



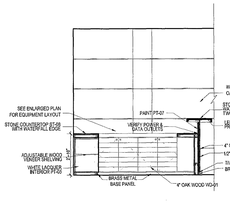
18 LUGGAGE ROOM W. ELEV.
SCALE: 1/4" = 1'-0"

19 LUGGAGE ROOM S. ELEV.
SCALE: 1/4" = 1'-0"

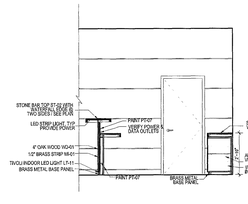
20 LUGGAGE ROOM E. ELEV.
SCALE: 1/4" = 1'-0"



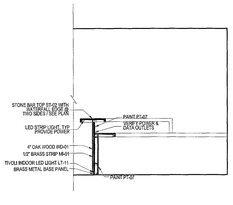
21 CHECK-IN DESK ELEV.
SCALE: 1/4" = 1'-0"



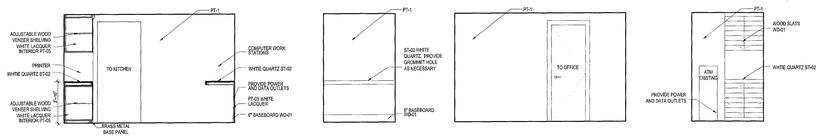
22 CHECK-IN DESK ELEV.
SCALE: 1/4" = 1'-0"



23 CHECK-IN DESK ELEV.
SCALE: 1/4" = 1'-0"



24 CHECK-IN DESK ELEV.
SCALE: 1/4" = 1'-0"



25 BUSINESS CENTER
SCALE: 1/4" = 1'-0"

26 BUSINESS CENTER
SCALE: 1/4" = 1'-0"

27 BUSINESS CENTER
SCALE: 1/4" = 1'-0"

28 BUSINESS CENTER
SCALE: 1/4" = 1'-0"

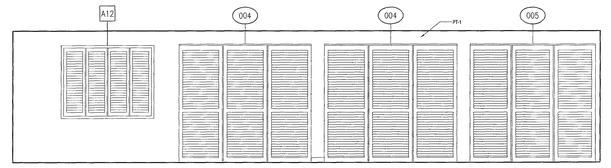
SHEET NOTES

A WD-01 FOR BASEBOARD TYPICAL THROUGHOUT CORRIDORS ON LEVEL 1, 2, AND 3

B VERIFY LOCATION OF EXISTING DIFFUSERS TO BE REPLACED WITH TRUFIG DIFFUSER

C ALL WOOD SHALL BE INHERENTLY FIRE RETARDENT PER THE FFPC 2010 CHAP 10 & TABLE A.10.2.2

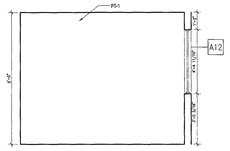
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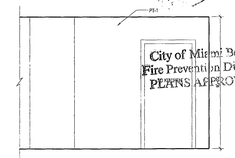
5 LOUNGE SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



6 LOUNGE NORTH ELEVATION
SCALE: 1/4" = 1'-0"



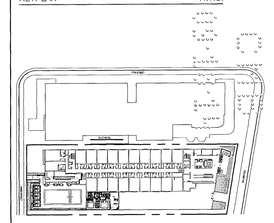
7 LOUNGE EAST ELEVATION
SCALE: 1/4" = 1'-0"



8 LOUNGE WEST ELEVATION
SCALE: 1/4" = 1'-0"

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KEYPLAN N.T.S.



REVISIONS

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Jonathan Cardello
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Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
SCALE: 1/4" = 1'-0"

SHEET TITLE

INTERIOR ELEVATIONS

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

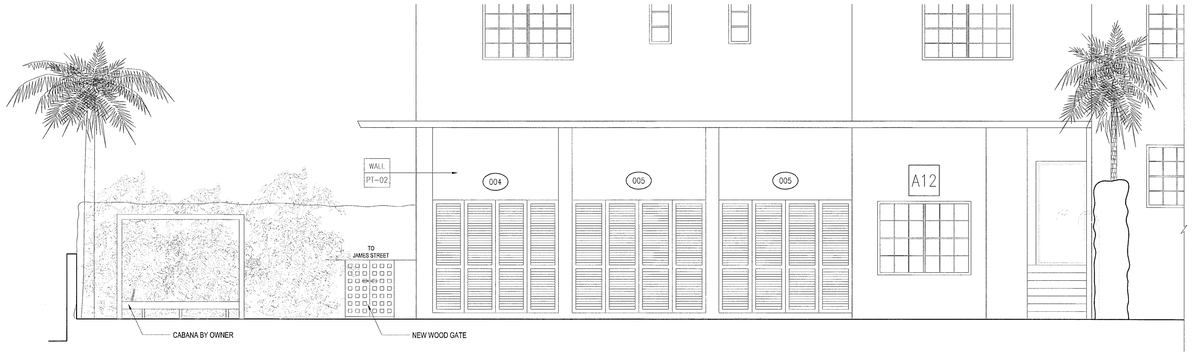
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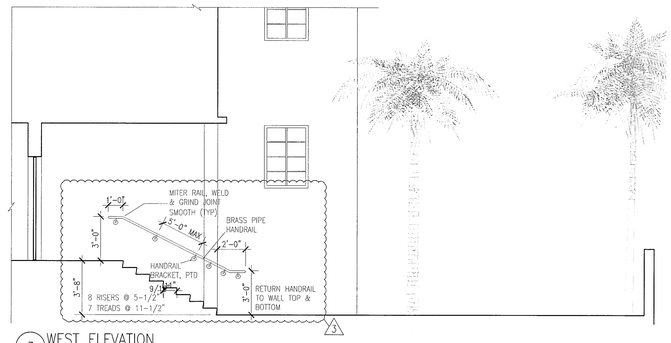
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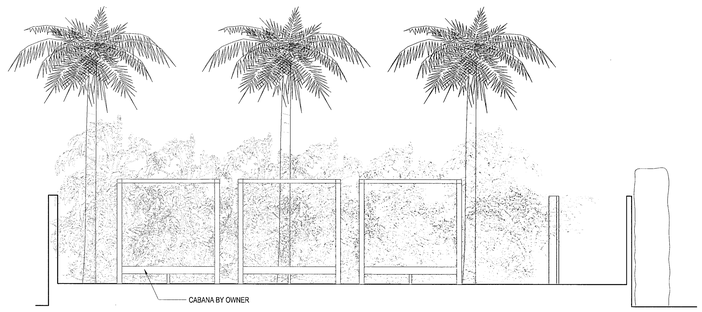
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3 WEST ELEVATION
SCALE: 1/4" = 1'-0"



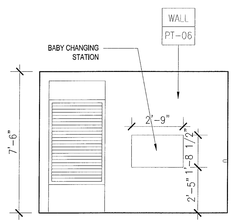
4 EAST ELEVATION
SCALE: 1/4" = 1'-0"

5 NOT USED
SCALE: 1/4" = 1'-0"

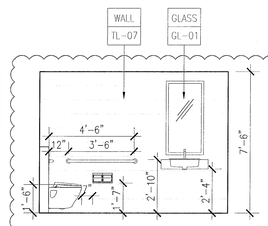
6 NOT USED
SCALE: 1/4" = 1'-0"

7 NOT USED
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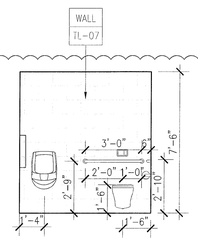
8 NOT USED
SCALE: 1/4" = 1'-0"



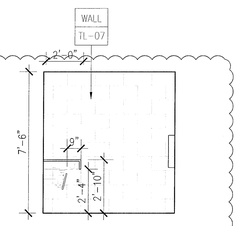
9 OUTDOOR BATHROOM
SCALE: 1/4" = 1'-0"



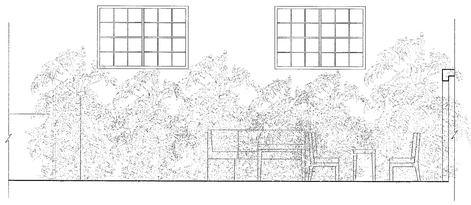
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SCALE: 1/4" = 1'-0"



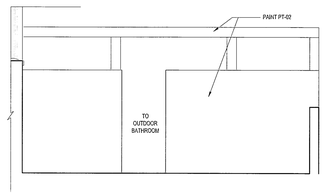
11 OUTDOOR BATHROOM
SCALE: 1/4" = 1'-0"



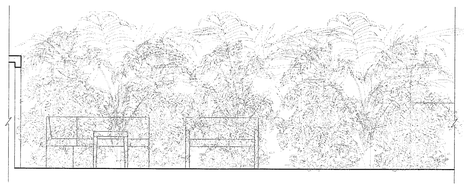
12 OUTDOOR BATHROOM
SCALE: 1/4" = 1'-0"



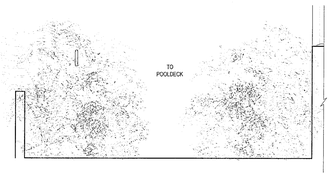
13 GARDEN NORTH ELEVATION
SCALE: 1/4" = 1'-0"



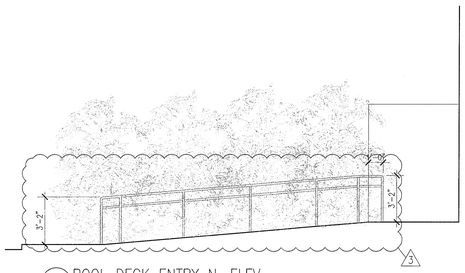
15 GARDEN EAST ELEVATION
SCALE: 1/4" = 1'-0"



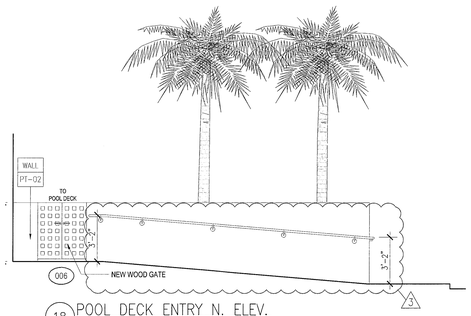
14 GARDEN SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



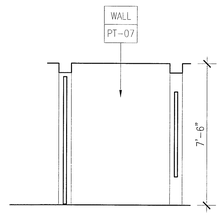
16 GARDEN WEST ELEVATION
SCALE: 1/4" = 1'-0"



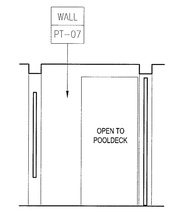
17 POOL DECK ENTRY N. ELEV.
SCALE: 1/4" = 1'-0"



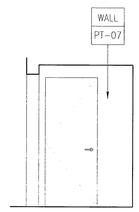
18 POOL DECK ENTRY N. ELEV.
SCALE: 1/4" = 1'-0"



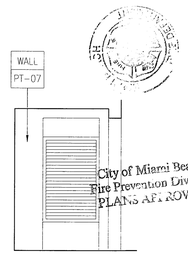
19 OUTDOOR WC ANTEROOM
SCALE: 1/4" = 1'-0"



20 OUTDOOR WC ANTEROOM
SCALE: 1/4" = 1'-0"



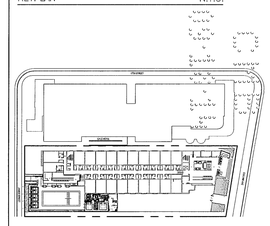
21 OUTDOOR WC ANTEROOM
SCALE: 1/4" = 1'-0"



22 OUTDOOR WC ANTEROOM
SCALE: 1/4" = 1'-0"

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE
1	ISSUE FOR EXTERIOR FACADE PERMIT	05.06.14
2	RESPONSE TO CMB COMMENTS	06.28.14
3	PERMIT COMMENTS	09.10.14

PERMIT SET

NORTH SEAL

9.15.14
Jonathan Cardello
Lic. # AR93391

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Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
SCALE: 1/4" = 1'-0"

SHEET TITLE

EXTERIOR ELEVATIONS

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SHEET NUMBER

A732

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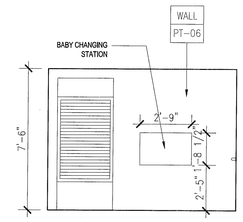
1 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



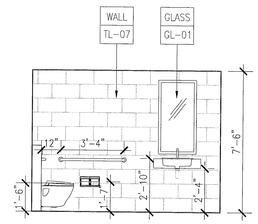
2 NORTH ELEVATION
SCALE: 1/4" = 1'-0"

5 NOT USED
SCALE: 1/4" = 1'-0"

6 NOT USED
SCALE: 1/4" = 1'-0"

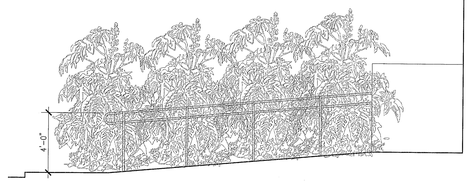


9 OUTDOOR BATHROOM
SCALE: 1/4" = 1'-0"

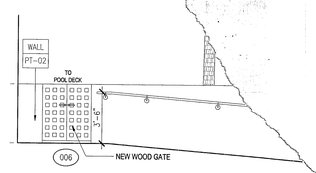


10 OUTDOOR BATHROOM
SCALE: 1/4" = 1'-0"

11 OUTD
SCALE: 1/4



17 POOL DECK ENTRY N. ELEV.
SCALE: 1/4" = 1'-0"



18 POOL DECK ENTRY N. ELEV.
SCALE: 1/4" = 1'-0"

SHEET NOTES

1. FLOORING TRANSITIONS AT DOOR OPENING TO OCCUR UNDERNEATH DOOR, U.O.N. PROVIDE "SCHLUTER" METAL TRANSITION STRIPS AT ALL CARPET-TILE/VINYL TRANSITIONS. METAL COLOR TBD BY ARCHITECT PRIOR TO INSTALLATION.
2. FLOOR FINISHES AND WALL BASE TO CONTINUE UNDER COUNTER TOPS, ANY MILLWORK OPENINGS, AND NO KITCHEN SINK CABINETS.
3. PROVIDE TRANSITION STRIPS AT ALL LOCATIONS WHERE CARPET AND TILE/SHEET FLOORING MEET. VERIFY COLOR WITH ARCHITECT PRIOR TO INSTALLATION. SEE TRANSITION DETAILS ON M-A712 FOR FURTHER INFORMATION.
4. VINYL BASE TO BE STRAIGHT AT CARPETED AREAS AND COVE AT VCT/SHEET FLOORING AREAS, TYPICAL.
5. VERIFY FLOOR FINISH LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION. (TILE LAYOUT, SEAMING DIAGRAMS, ETC.)
6. FOR ADDITIONAL FINISH INFORMATION, SEE FINISH SCHEDULE.
7. ALL BASE TO BE B-1, U.O.N.
8. TILE/CARPET TRANSITION TO BE LEVELED. FLOAT FLOOR AS REQUIRED.
9. IN ORDER TO RECEIVE FURNITURE SYSTEM INSTALLATION, EXISTING CONCRETE FLOOR MUST BE LEVELED BEFORE APPLYING ANY NEW FLOORING.
10. ALL CARPET ADHESIVES, WALLPAPER ADHESIVES, PAINTS AND PRIMERS TO BE LOW VOC AND PRODUCT NO OFF GASSING.
11. NOTIFY THE ARCHITECT OF ANY UNEXPECTED FIELD CONDITION OR ANY DISCREPANCY BEFORE PROCEEDING. GENERAL CONTRACTOR IS TO COORDINATE THE COMPLETE SCOPE OF WORK WITH CONSTRUCTION DOCUMENTS.
12. ALL GENERAL WALLS (N AND OUT OF GREY AREA) ARE TO BE PAINTED P-2 UNLESS OTHERWISE NOTED FOR ACCENT WALLS.
    NEW SURFACES: 1-COAT PRIMER, 2-TOP COATS
    EXIST SURFACES: 1-COAT PRIMER, 1-TOP COAT
    H.M.DOORS & FRAMES: 2-TOP COATS P-3
13. U.O.N. ALL EXISTING VINYL WALL BASE TO REMAIN, PROTECT & PRESERVE.
14. SEE ELEVATIONS ON SHEET LM-A734 FOR ADDITIONAL FINISH INFORMATION.
15. TYPICAL: ALL EXISTING AND NEW METAL DOOR FRAMES TO BE PAINTED IN SATIN FINISH. SEE DOOR SCHEDULE SHEET LM-T02 FOR ADDITIONAL FINISH REQUIREMENTS.
16. ALL WOOD MATERIAL SHALL BE USED, ALL WOOD SHALL BE INHERENTLY FIRE RETARDANT PER THE FFPC 2010 CHAP 10 & TABLE A.10.2.2 FOR EXISTING HOTEL

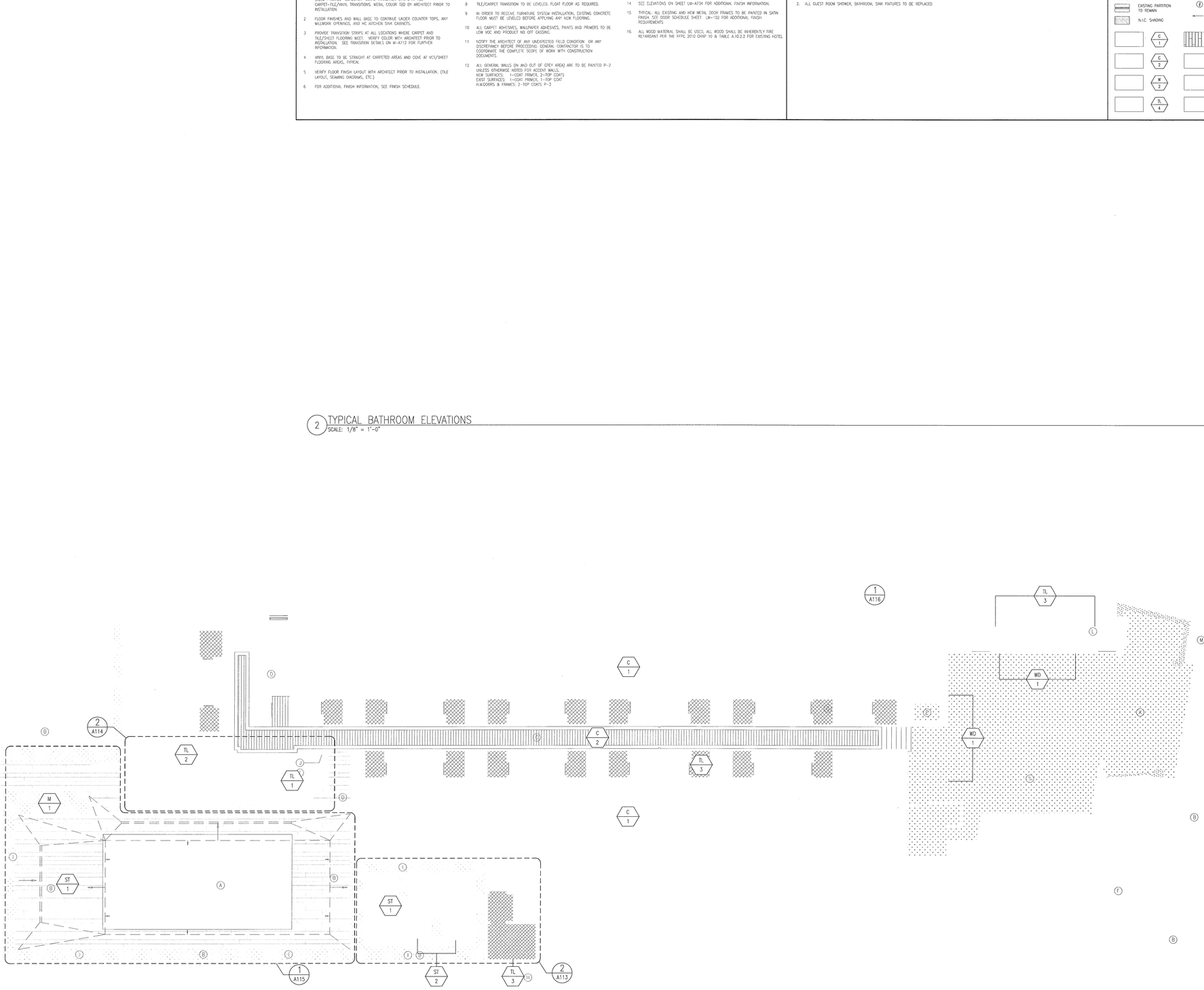
KEY NOTES

1. ALL GUEST ROOM BATHROOM TILE TO be REPLACED
2. ALL GUEST ROOM SHOWER, BATHROOM, SINK FIXTURES TO BE REPLACED

GENERAL PLAN LEGEND

NEW PARTITION
EXISTING PARTITION TO REMAIN
N.I.C. SHADING
EXISTING STRUCTURE
KEY NOTE INDICATOR
INDICATES DIRECTION OF DOMINANT STRIPE IN CARPET
TYP.
DETAIL REF.
FINISH TAG
DENOTES SPEC SEE FINISH SCHEDULE FOR CORRESPONDING NUMBER

C 1 | ST 1 | VCT 1-4 | C 2 | TL 1 | ST 1 | W 2 | TL 2 | ST 2 | TL 4 | TL 3 | W 1



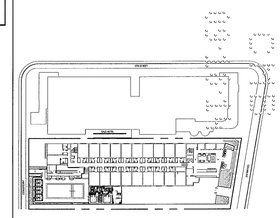
2 TYPICAL BATHROOM ELEVATIONS
SCALE: 1/8" = 1'-0"

1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



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PERMIT SET

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Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
SCALE: 1/8" = 1'-0"

TITLE

FIRST FLOOR
FINISH PLAN

SHEET NUMBER

A741

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SHEET NOTES

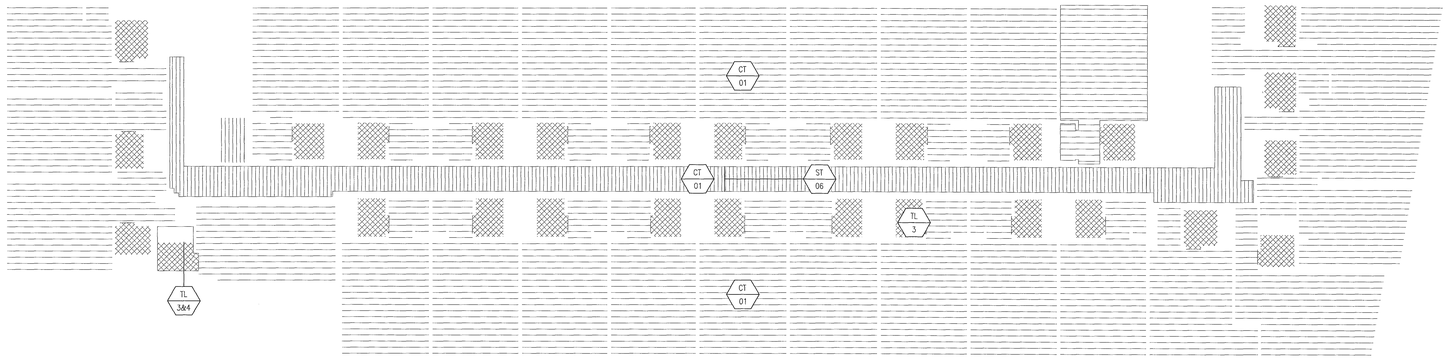
1. FLOORING TRANSITIONS AT DOOR OPENING TO OCCUR UNDERNEATH DOOR, U.O.N. PROVIDE "SCHLUTER" METAL TRANSITION STRIPS AT ALL CARPET-TILE/VINYL TRANSITIONS. METAL COLOR TBD BY ARCHITECT PRIOR TO INSTALLATION.
2. FLOOR FINISHES AND WALL BASE TO CONTINUE UNDER COUNTER TOPS, ANY MILLWORK OPENINGS, AND HC KITCHEN SINK CABINETS.
3. PROVIDE TRANSITION STRIPS AT ALL LOCATIONS WHERE CARPET AND TILE/SHEET FLOORING MEET. VERIFY COLOR WITH ARCHITECT PRIOR TO INSTALLATION. SEE TRANSITION DETAILS ON A-A712 FOR FURTHER INFORMATION.
4. VINYL BASE TO BE STRAIGHT AT CARPETED AREAS AND COVE AT VCT/SHEET FLOORING AREAS, TYPICAL.
5. VERIFY FLOOR FINISH LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION. (TILE LAYOUT, SEAMING DIAGRAMS, ETC.)
6. FOR ADDITIONAL FINISH INFORMATION, SEE FINISH SCHEDULE.
7. ALL BASE TO BE B-1, U.O.N.
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12. ALL GENERAL WALLS (IN AND OUT OF GREY AREA) ARE TO BE PAINTED P-2 UNLESS OTHERWISE NOTED FOR ACCENT WALLS. NEW SURFACES: 1-COAT PRIMER, 2-TOP COATS EXIST SURFACES: 1-COAT PRIMER, 1-TOP COAT H.M.DOORS & FRAMES: 2-TOP COATS P-3
13. U.O.N. ALL EXISTING VINYL WALL BASE TO REMAIN, PROTECT & PRESERVE.
14. SEE ELEVATIONS ON SHEET LM-A734 FOR ADDITIONAL FINISH INFORMATION.
15. TYPICAL. ALL EXISTING AND NEW METAL DOOR FRAMES TO BE PAINTED IN SATIN FINISH. SEE DOOR SCHEDULE SHEET LM-102 FOR ADDITIONAL FINISH REQUIREMENTS.
16. ALL WOOD MATERIAL SHALL BE USED, ALL WOOD SHALL BE INHERENTLY FIRE RETARDANT PER THE FFPC 2010 CHAP 10 & TABLE A.10.2.2 FOR EXISTING HOTEL

KEY NOTES

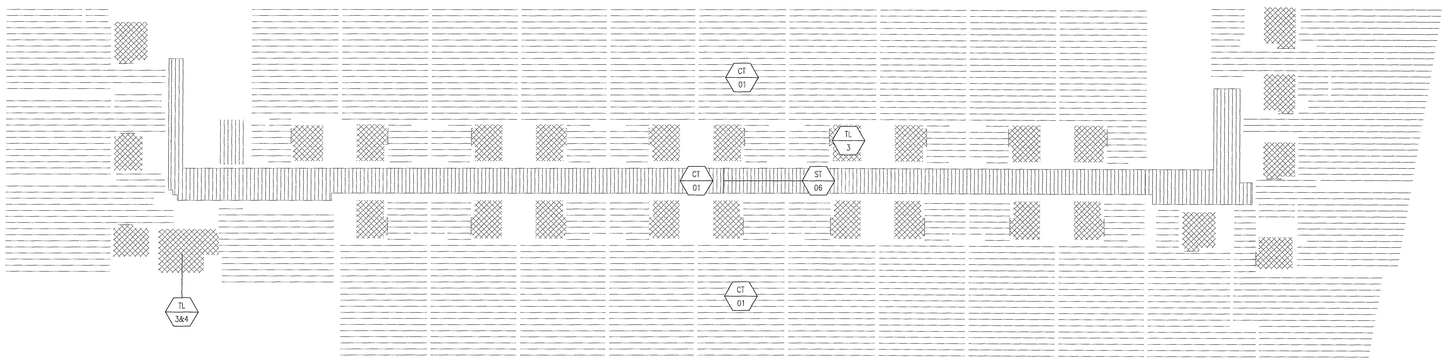
1. ALL GUEST ROOM BATHROOM TILE TO REPLACED
2. ALL GUEST ROOM SHOWER, BATHROOM, SINK FIXTURES TO BE REPLACED

GENERAL PLAN LEGEND

NEW PARTITION
EXISTING PARTITION TO REMAIN
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KEY NOTE INDICATOR
INDICATES DIRECTION OF DOMINANT STRIPE IN CARPET
TYP.
DETAIL REF.
XX / X
FINISH TAG
C 1
C 2
W 2
TL 4
ST 1
TL 1
TL 2
TL 3
VCT 1-4
ST 1
ST 2
W 1
# DENOTES SPEC. SEE FINISH SCHEDULE FOR CORRESPONDING NUMBER



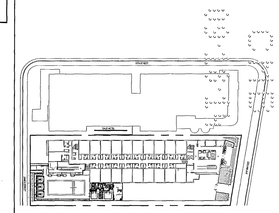
2 THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

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JOB NUMBER:	13023.00
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ISSUE DATE:	JUNE 26, 2014
SCALE:	1/8" = 1'-0"

SHEET TITLE

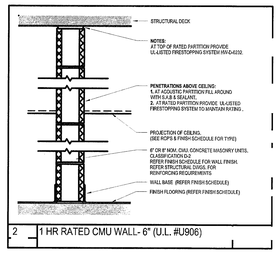
SECOND & THIRD FLOOR FINISH PLAN

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

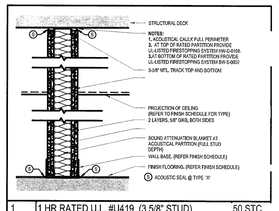
SHEET NUMBER

A742

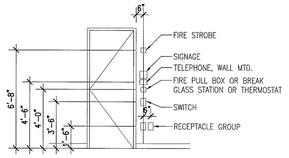
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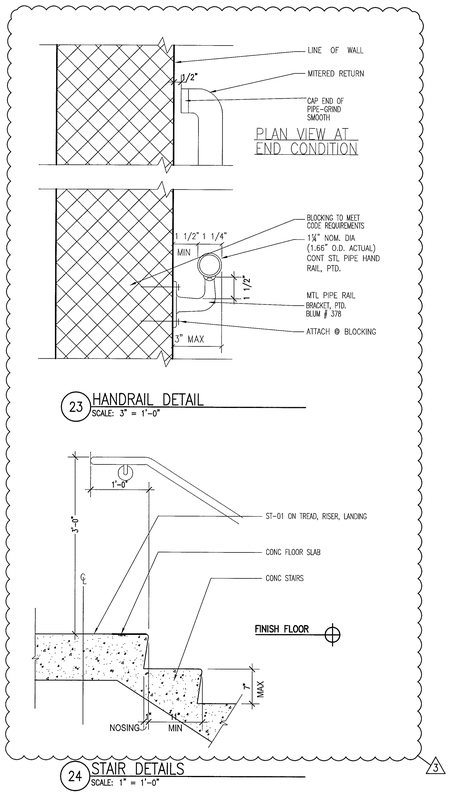
22 NEW CMU WALL
SCALE: 1" = 1'-0"



21 STANDARD STUD PARTITION
SCALE: 1" = 1'-0"



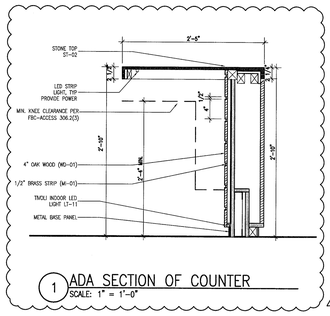
20 STANDARD MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"



23 HANDRAIL DETAIL
SCALE: 3" = 1'-0"

24 STAIR DETAILS
SCALE: 1" = 1'-0"

3



1 ADA SECTION OF COUNTER
SCALE: 1" = 1'-0"

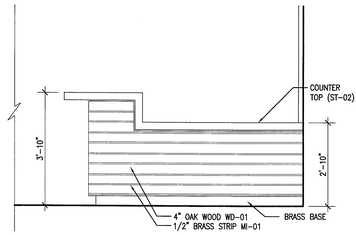
3

GENERAL NOTES

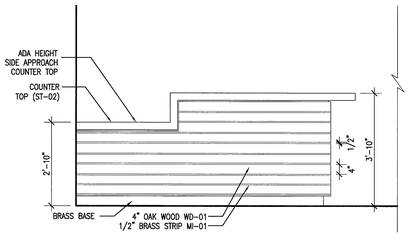
1. NOTIFY THE ARCHITECT OF ANY UNEXPECTED FIELD CONDITION OR ANY DISCREPANCY BEFORE PROCEEDING. GENERAL CONTRACTOR IS TO COORDINATE THE COMPLETE SCOPE OF WORK WITH CONSTRUCTION DOCUMENTS.
2. PROVIDE TEMPORARY SECURE ACCESS TO SPACE THROUGH CONSTRUCTION AND TEMPORARY LIGHT & POWER.
3. PROVIDE STRICT CONTROL OF JOB CLEANING AND PREVENT DUST AND DEBRIS FROM EMANATING FROM CONSTRUCTION AREA. GENERAL CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF TRASH AND DEBRIS DURING CONSTRUCTION.
4. CAP AND SHUT OFF ALL UNUSED UTILITIES PER CITY AND STATE REQUIREMENTS, WHERE REQUIRED.
5. PROVIDE TEMPORARY FIRE / SAFETY DEVICES THROUGHOUT CONSTRUCTION. SECURE DEVICES AS NECESSARY.
6. PROTECT ALL BASE BUILDING SERVICES, TYPICAL.
7. ALL REQUIREMENTS FOR FIRE RATINGS TO BE MAINTAINED DURING CONSTRUCTION.
8. THIS PROJECT INVOLVES CONSTRUCTION INSIDE AN EXISTING STRUCTURE. CONTRACTORS, BY SUBMITTING A BID, ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITION OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. ABSOLUTELY NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BLDG.
9. THE CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT EFFECT THE EXISTING CONDITIONS WILL HAVE ON THEIR WORK. POTENTIAL PROBLEM AREAS SHALL BE BROUGHT TO THE ATTN. OF THE ARCHITECT AND/OR ENGINEER IMMEDIATELY.
10. SHUTDOWN OF EXISTING SYSTEMS FOR CONNECTION TO EXISTING SERVICES SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER AND BUILDING OWNER. THE CONTRACTOR SHALL SUBMIT REQUESTS, WHERE THEY AFFECT THE OPERATION OF THE BUILDING SYSTEMS, AT LEAST ONE WEEK IN ADVANCE OF ANY REQUIRED SHUTDOWN. THE ACTUAL SHUTDOWN PERIOD SHALL BE AS SHORT AS POSSIBLE AND AT A TIME MUTUALLY AGREEABLE TO THE BUILDING OWNER AND THE CONSTRUCTION MANAGER.
11. ELECTRICAL DEVICES SHALL BE TERMINATED IN A SAFE AND PROPER METHOD BY A LICENSED PROFESSIONAL.
12. ALL WORK SHALL CONFORM WITH ALL APPLICABLE CITY, STATE, AND FEDERAL CODES AND REGULATIONS.
13. ARCHITECT TO REVIEW WALL LAYOUTS PRIOR TO CONSTRUCTION.
14. EXTREME CARE SHALL BE EXERCISED IN CUTTING, DRILLING, ANCHORING, ETC. TO THE EXISTING STRUCTURE. IF ANY DETERIORATION, OR DAMAGE TO THE EXISTING STRUCTURE OCCURS DURING CONSTRUCTION, IT SHALL BE PROMPTLY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
15. REFER TO ENGINEERING DRAWINGS FOR ALL POWER, DATA, MECHANICAL PLUMBING, & SECURITY REQUIREMENTS, LOCATIONS, AND SPECIFICATIO GENERAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DOCUMEN TO NOTIFY ARCHITECT OF ANY DISCREPANCIES / CONFLICTS.
16. REFER TO STRUCTURAL DRAWINGS FOR ALL SLAB THICKNESS VARIA TRANSFER BEAM LOCATIONS, AND OTHER STRUCTURAL SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DOCUMENTS, AND NOTIFY ARCHITECT OF ANY DISCREPANCIES / CONFLICTS.
17. ANY NECESSARY FIRE EXTINGUISHERS ARE TO BE LOCATED IN RECES CABINETS WITH DOORS. COORDINATE LOCATIONS WITH ARCHITECT.
18. ALL EXISTING EXPOSED CMU BLOCK / CONCRETE AREAS (WALLS AND TO BE PATCHED, FILLED, AND SKIM COATED WITH NEW ANTI-CRACKIN SUBSTRATE, AND SEALED.
19. ELECTRICAL OUTLETS ARE SHOWN FOR LOCATION REFERENCE, IF REQU ELECTRICAL WORK SHALL BE UNDER SEPARATE PERMIT
20. ALL LANDSCAPE MATERIAL SHOWN FOR REFERENCE ONLY. LANDSCAPE SEPARATE PERMIT
21. ALL ELECTRICAL EQUIPMENT TO BE INSTALLED ABOVE FLOOD LEVELS
22. POOL DWG's INCLUDED FOR REFERENCE. POOL TO BE PERMITTED SE
23. HARDSCAPE TO BE LEVEL AND SLIP-RESITANT PER THE FFPC 2010 C

LEGEND

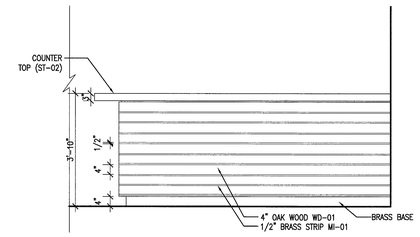
- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- N.I.C. SHADING
- EXISTING STRUCTURE
- GWB CEILING/SOFFIT
- EXISTING DOOR TO REMAIN
- DOOR NUMBER NEW DOOR
- ELEVATION REFERENCE
- DETAIL REFERENCE
- F.S. FLOOR SINK
- FD.-FLOOR DRAIN
- W.-WASTE OUTLET
- TD - TRENCH DRAIN
- LEVEL CHANGE
- 1 STUD PARTITION
- 2 NEW CMU WALL



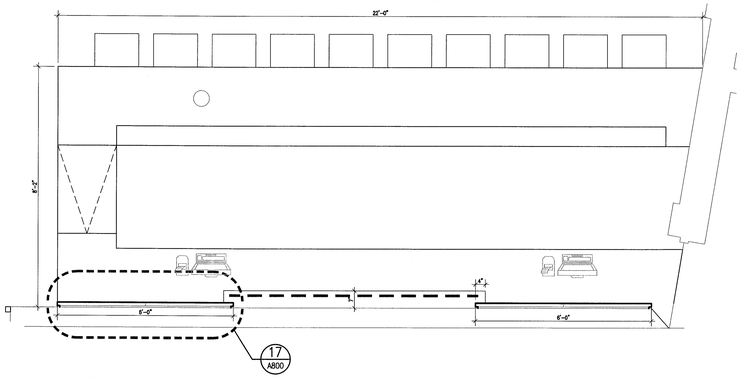
2 LOBBY BAR ELEVATION
SCALE: 1/2" = 1'-0"



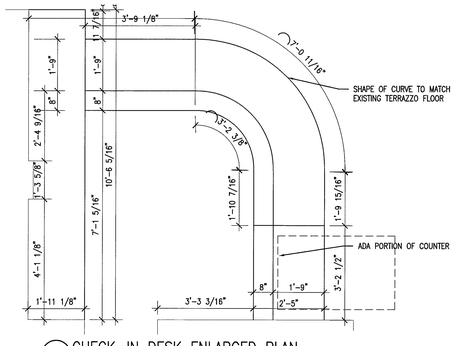
3 CHECK-IN BAR ELEVATION
SCALE: 1/2" = 1'-0"



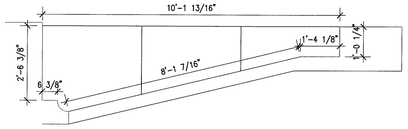
4 CHECK-IN BAR ELEVATION
SCALE: 1/2" = 1'-0"



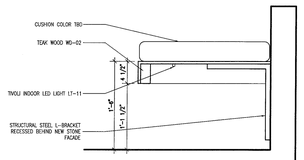
5 LOBBY BAR ENLARGED PLAN
SCALE: 1/2" = 1'-0"



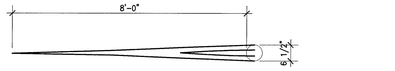
6 CHECK-IN DESK ENLARGED PLAN
SCALE: 1/2" = 1'-0"



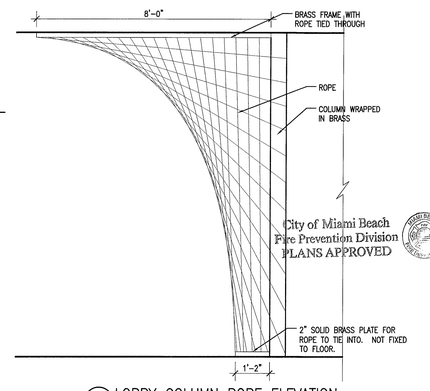
7 ENTRY PORCH BENCH ENLARGED PLAN (SOUTH)
SCALE: 1/2" = 1'-0"



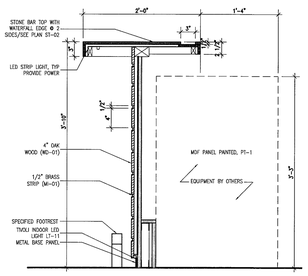
9 ENTRY PORCH BENCH SECTION (SOUTH)
SCALE: 1/2" = 1'-0"



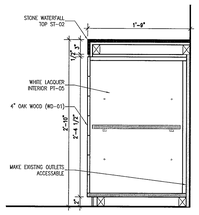
11 LOBBY COLUMN ROPE PLAN
SCALE: 1/2" = 1'-0"



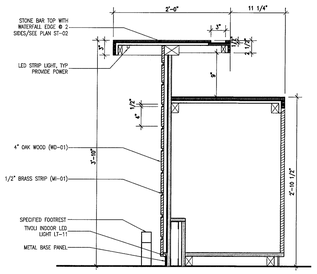
12 LOBBY COLUMN ROPE ELEVATION
SCALE: 1/2" = 1'-0"



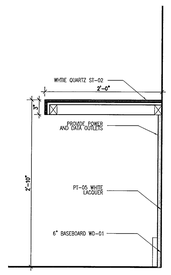
13 LOBBY BAR FRONT COUNTER SECTION
SCALE: 1" = 1'-0"



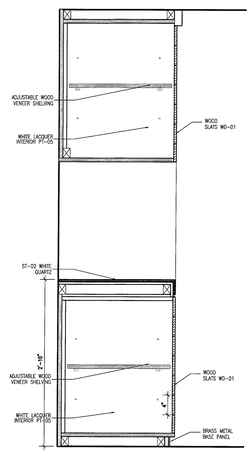
14 LOBBY BACK COUNTER SECTION
SCALE: 1" = 1'-0"



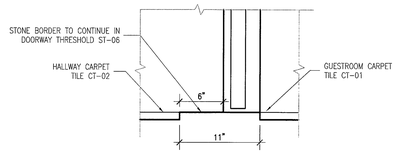
15 CHECK-IN FRONT COUNTER SECTION
SCALE: 1" = 1'-0"



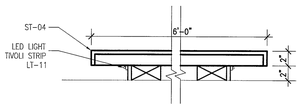
18 BUSINESS CENTER DESK
SCALE: 1" = 1'-0"



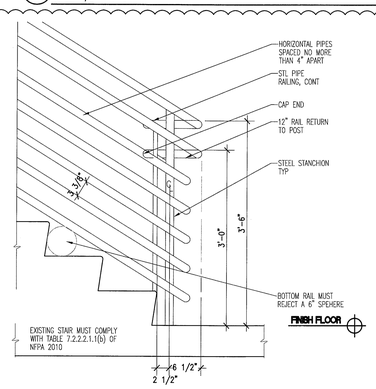
19 BUSINESS CENTER CABINET
SCALE: 1" = 1'-0"



16 THRESHOLD TRANSITION DETAIL AT GR DOOR
SCALE: 1-1/2" = 1'-0"



17 LOBBY MARBLE SLAB PLAN DETAIL
SCALE: 1-1/2" = 1'-0"



8 RAILING AT EXISTING STAIRS
SCALE: 1" = 1'-0"

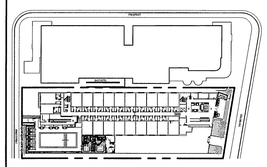
3

10 NOT USED
SCALE: -

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS		
NO.	DESCRIPTION	ISSUE DATE
1	ISSUE FOR EXTERIOR FACADE PERMIT	05.06.14
2	RESPONSE TO CMB COMMENTS	06.26.14
3	PERMIT COMMENTS	08.10.14

PERMIT SET

NORTH SEAL

Jonathan Cardello
Lic. # AR93391

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Boston Miami

JOB NUMBER:	13023.00
CHECKED BY:	
ISSUE DATE:	JUNE 26, 2014
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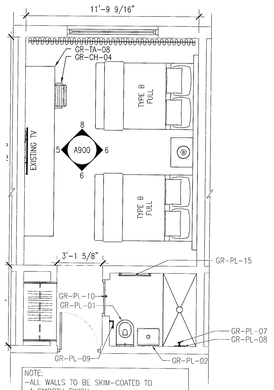
SHEET TITLE

MILLWORK DETAILS

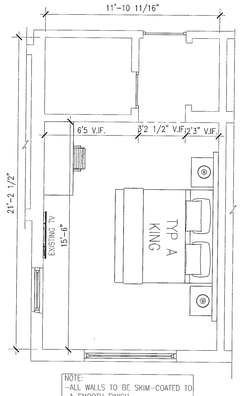
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A800

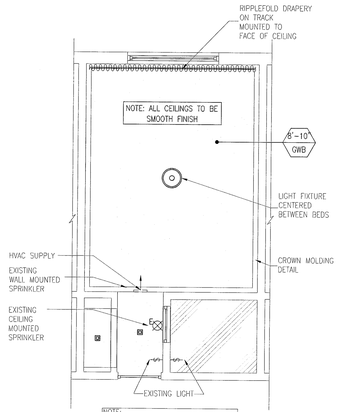
COPYRIGHT ADD INC 2013



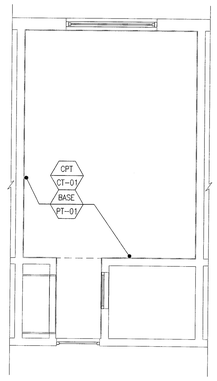
1 FURNITURE / FIXTURE PLAN
SCALE: 1/4" = 1'-0"



2 MODIFIED PLAN 123, 223
SCALE: 1/4" = 1'-0"



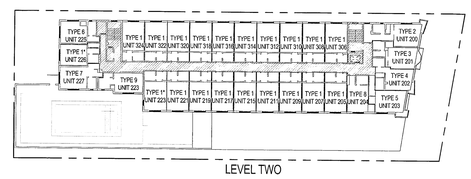
3 RCP
SCALE: 1/4" = 1'-0"



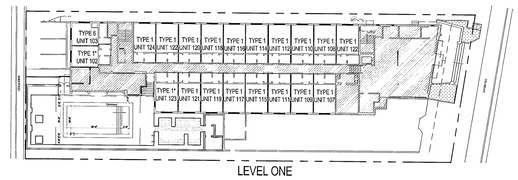
4 TYPICAL FINISH PLAN
SCALE: 1/4" = 1'-0"



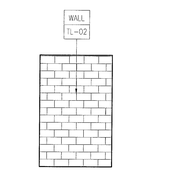
LEVEL THREE



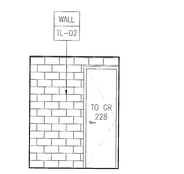
LEVEL TWO



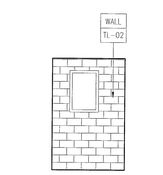
LEVEL ONE



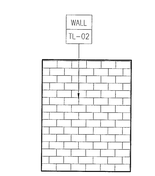
11 GR 228 ELEVATIONS
SCALE: 1/4" = 1'-0"



12 GR 228 ELEVATIONS
SCALE: 1/4" = 1'-0"



13 GR 228 ELEVATIONS
SCALE: 1/4" = 1'-0"



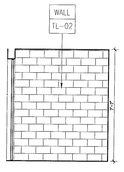
14 GR 228 ELEVATIONS
SCALE: 1/4" = 1'-0"

15 GR 328 ELEVATIONS
SCALE: 1/4" = 1'-0"

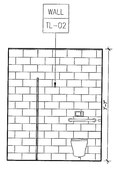
16 GR 328 ELEVATIONS
SCALE: 1/4" = 1'-0"

17 GR 328 ELEVATIONS
SCALE: 1/4" = 1'-0"

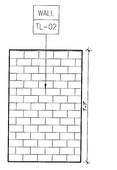
18 GR 328 ELEVATIONS
SCALE: 1/4" = 1'-0"



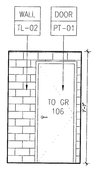
19 GR 106 ELEVATIONS
SCALE: 1/4" = 1'-0"



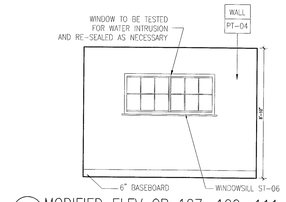
20 GR 106 ELEVATIONS
SCALE: 1/4" = 1'-0"



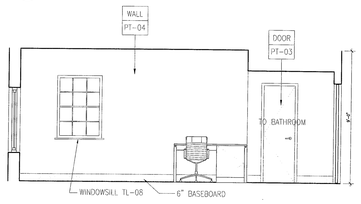
21 GR 106 ELEVATIONS
SCALE: 1/4" = 1'-0"



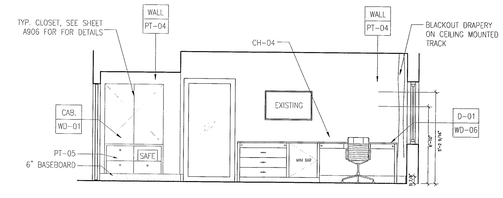
22 GR 106 ELEVATIONS
SCALE: 1/4" = 1'-0"



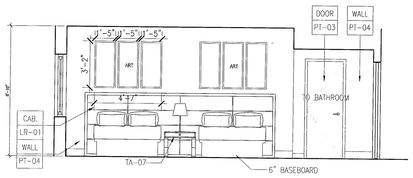
10 MODIFIED ELEV GR 107, 109, 111, 115, 117
SCALE: 1/4" = 1'-0"



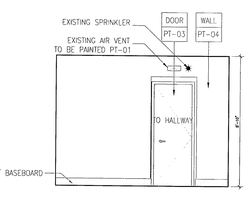
11 MODIFIED ELEV GR 123, 223, 323
SCALE: 1/4" = 1'-0"



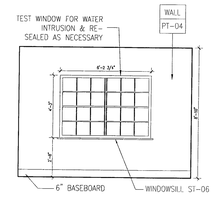
6 TYPE 1 GUESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



8 TYPE 1 GUESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



7 TYPE 1 GUESTROOM ELEVATION
SCALE: 1/4" = 1'-0"



9 TYPE 1 GUESTROOM ELEVATION
SCALE: 1/4" = 1'-0"

FOR REFERENCE ONLY AS APPROVED UNDER PERMIT NUMBER: B1403807

REFLECTED CEILING PLAN LEGEND

- GWB CEILING/SOFFIT
- 9'-0" ACT — CEILING HEIGHT KEY: CEILING HEIGHT – AFF; CEILING TYPE
- DOWNLIGHT
- WALL SCONCE
- SMOKE DETECTOR
- SPRINKLER
- SUPPLY DIFFUSER
- RETURN AIR GRILLE
- AP-1 — HVAC ACCESS PANEL

POWER & SIGNAL PLAN LEGEND

- OUTLET – DUPLEX
- D — OUTLET – DEDICATED TO APPLIANCE
- GFI — OUTLET – GROUND FAULT INTERRUPTOR
- OUTLET – QUADRAPLEX
- OUTLET – SPECIAL PURPOSE
- OUTLET – VOICE
- W — OUTLET – VOICE WALL MOUNTED
- OUTLET – DATA
- OUTLET – VOICE/DATA
- CR — CARD READER
- T — THERMOSTAT
- WA — WIRELESS ACCESS
- DOORBELL IN ACCORDANCE WITH ARCHITECT
- VOICE, DATA & VIDEO OUTLET
- S — SMOKE DETECTOR
- E — EXISTING

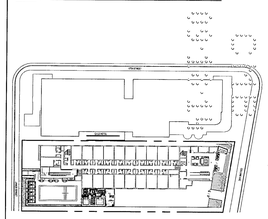
City of Miami Beach
Fire Prevention Division
PLANS APPROVED

GENERAL NOTES

1. CUSTOM CLOSET BUILD OUT – WIDTH & HEIGHTS TYPICAL. CONTRACTOR TO VERIFY EXISTING CONDITIONS AND ADVISE THE ARCHITECT OF ANY VARIATIONS ENCOUNTERED IN THE FIELD

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE
1	ISSUE FOR EXTERIOR FACADE PERMIT	05.06.14
2	RESPONSE TO CMB COMMENTS	06.28.14
3	PERMIT COMMENTS	09.10.14

PERMIT SET

NORTH SEAL

9.15.14
Jonathan Cardello
Lic. # AR93391

ADD Inc Architecture Interiors Planning

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T. 305.482.8700
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Lic. # AA26001507

Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: JUNE 26, 2014
SCALE: 1/4" = 1'-0"

SHEET TITLE

TYPICAL GUESTROOM ENLARGED PLANS AND ELEVATIONS REFERENCE ONLY

SHEET NUMBER

A900

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GENERAL STRUCTURAL NOTES

1. CODES:
ALL WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2010 EDITION AND ALL OTHER APPLICABLE LOCAL CODES.

2. DESIGN CRITERIA FOR WORK INDICATED IN THESE DRAWINGS:
A. ROOF LOADS:
LIVE LOAD: 30 PSF
SUPERIMPOSED DEAD LOAD: 15 PSF (@ ROOF)
10 PSF (@ CEILING)
B. FLOOR LOADS:
LIVE LOAD: GUEST ROOMS - 40 PSF
CORRIDORS & STAIRS - 100 PSF
POOL DECK & PUBLIC AREAS - 100 PSF
SUPERIMPOSED DEAD LOAD: LOBBY & POOL DECK - 35 PSF
ALL OTHER AREAS - 15 PSF
C. WIND LOADS: IN ACCORDANCE WITH ASCE 7-10 (RISK CATEGORY II; 175 MPH ULTIMATE DESIGN WIND SPEED; EXPOSURE C; INTERNAL PRESSURE COEFFICIENTS, ± 0.18). SEE CALCULATIONS FOR ADDITIONAL INFORMATION.

3. BUILDING PERMIT:
A. OBTAIN BUILDING PERMIT.
B. COMPLY WITH THE REQUIREMENTS OF THE BUILDING PERMIT AND WITH OTHER REQUIREMENTS OF THE PERMITTING AUTHORITY.
C. IF CHANGES TO STRUCTURAL DESIGN ARE ISSUED BY THE ENGINEER, SUBMIT CHANGES TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL. MAINTAIN PERMIT APPROVALS CONCURRENT WITH CONSTRUCTION.

4. CONSTRUCTION DOCUMENTS:
A. EXAMINE AND STUDY ALL CONSTRUCTION DOCUMENTS PRIOR TO COMMENCEMENT OF WORK. DIRECT ANY QUESTIONS TO THE ENGINEER.

5. ELEVATION DATUM:
ALL ELEVATIONS ON THESE STRUCTURAL DRAWINGS REFER TO COLLINS AVENUE SIDEWALK DATUM = +0'-0" (SEE ARCHITECTURAL DRAWINGS).

6. COORDINATION AND DIMENSIONS:
A. COORDINATE ALL DIMENSIONS AND ELEVATIONS BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. VERIFY ALL DIMENSIONS AND CONDITIONS RELATED TO EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION. BRING ANY DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ENGINEER. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE. SCALE IS FOR GUIDELINE PURPOSES ONLY. IF DIMENSIONS ARE UNCLEAR, DO NOT SCALE. REQUEST CLARIFICATION FROM THE ENGINEER.
B. COORDINATE THE STRUCTURAL WORK WITH THE WORK OF ALL OTHER TRADES.
C. COORDINATE THE STRUCTURAL WORK WITH SLAB DEPRESSIONS, MECHANICAL OPENINGS, PIPING AND CONDUITS AS SHOWN ON OTHER DRAWINGS.
D. COORDINATE ALL DIMENSIONS RELATIVE TO MANUFACTURED ITEMS, SUCH AS ELEVATORS, ESCALATORS, DOORS,WINDOWS, SKYLIGHTS, ACCESS PANELS AND HEATING, VENTILATING AND AIR-CONDITIONING EQUIPMENT.

7. CONFLICTS IN DOCUMENTS:
IF CONFLICTS OCCUR IN OR BETWEEN ARCHITECTURAL AND ENGINEERING DOCUMENTS, BETWEEN DOCUMENTS AND FIELD CONDITIONS OR OTHERWISE, IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND DIRECTION BEFORE PROCEEDING. COORDINATE ALL DIMENSIONS BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.

8. METHODS & SAFETY:
THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION. PROVIDE APPROPRIATE SUPERVISION THROUGHOUT THE PROJECT. CONSTRUCTION SITE SAFETY, INCLUDING ALL ADEQUATE TEMPORARY BRACING AND SHORING, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY THE NECESSARY PROFESSIONAL SERVICES TO DETERMINE THE NECESSARY METHODS AND SUPPORTS REGARDING FORMING AND CONSTRUCTION LOADS. TEMPORARY BRACING AND SHORING SHALL BE DESIGNED TO RESIST ALL CONSTRUCTION LOADS INCLUDING THE WEIGHTS OF ALL SUPPORTED MATERIALS PLUS A LIVE LOAD OF 50 PSF ON HORIZONTAL SURFACES. MAINTAIN TEMPORARY BRACING AND RETAIN IN PLACE UNTIL PERMANENT STRUCTURAL SYSTEMS ARE CAPABLE OF RESISTING ALL CONSTRUCTION PHASE LOADS.

9. PROTECTION OF EXISTING CONSTRUCTION:
DO NOT DAMAGE EXISTING CONSTRUCTION WHICH IS TO REMAIN. LOCATE AND PROTECT CONCEALED PIPES, CONDUITS AND OTHER EXISTING CONSTRUCTION PRIOR TO DEMOLITION AND TAKE APPROPRIATE ACTION TO PROTECT THEM AND TO PROVIDE FOR SAFETY.

10. CONSTRUCTION INSPECTIONS:
NOTIFY THE BUILDING INSPECTOR FOR INSPECTION OF ALL STRUCTURAL ELEMENTS. VERIFY THAT EACH AND EVERY STRUCTURAL ITEM HAS BEEN ACCEPTED BY THE INSPECTOR PRIOR TO PROCEEDING WITH SUBSEQUENT WORK AND/OR CONCEALING ANY STRUCTURAL ITEM. ANY STRUCTURAL ITEM WHICH HAS NOT BEEN SPECIFICALLY ACCEPTED BY THE INSPECTOR AND/OR ANY CONCEALING CONSTRUCTION WILL BE SUBJECT TO REMOVAL AND RECONSTRUCTION.

11. SPECIAL INSPECTION:
BY PROVISION OF THE FLORIDA BUILDING CODE 2010, SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING STRUCTURAL SYSTEMS: SOIL PREPARATION (BY GEOTECHNICAL ENGINEER), STRUCTURAL STEEL CONNECTIONS, REINFORCED MASONRY AND AS MAY OTHERWISE BE REQUIRED BY THE BUILDING OFFICIAL. NOTIFY SPECIAL INSPECTOR FOR INSPECTION OF ALL COMPONENTS OF THESE SYSTEMS PRIOR TO THEIR CONCEALMENT BY OTHER CONSTRUCTION. DO NOT CONCEAL ANY COMPONENT OF THESE SYSTEMS UNTIL ACCEPTED BY SPECIAL INSPECTOR AND UNTIL SO INDICATED ON THE SPECIAL INSPECTION LOG. THE SPECIAL INSPECTION LOG WILL BE PREPARED BY SPECIAL INSPECTOR AND GIVEN TO CONTRACTOR FOR KEEPING ON SITE. KEEP THE SPECIAL INSPECTION LOG IN A CLEAR DRY AREA AT THE SITE AND MAKE IT AVAILABLE TO THE SPECIAL INSPECTOR AND TO THE MUNICIPAL BUILDING INSPECTOR UPON REQUEST. THE SPECIAL INSPECTOR WILL MAKE ENTRIES ON THE LOG FOR EACH SITE VISIT AND WILL INDICATE ACCEPTANCE OR REJECTION OF THE ITEMS OBSERVED. ACCEPTANCE APPLIES ONLY TO THOSE SPECIFIC ITEMS SO INDICATED. NO OTHER ITEMS OR AREAS ARE TO BE ASSUMED TO BE ACCEPTED. ANY COMPONENTS OF THE STRUCTURAL SYSTEMS WHICH HAVE BEEN CONCEALED WITHOUT SPECIFIC ACCEPTANCE BY THE SPECIAL INSPECTOR WILL BE REJECTED, AND ANY CONCEALING CONSTRUCTION MUST BE REMOVED. UPON ACCEPTANCE OF ALL COMPONENTS OF ALL SYSTEMS, RETURN SPECIAL INSPECTION LOG TO THE SPECIAL INSPECTOR.

12. SHOP DRAWINGS:
A. SUBMIT TO THE ENGINEER COMPLETE SHOP DRAWINGS AS REQUIRED BY THESE CONTRACT DOCUMENTS.
B. CHECK ALL SHOP DRAWINGS FOR COMPLIANCE AND COMPLETENESS PRIOR TO SUBMITTAL. ALL SHOP DRAWINGS SHALL BEAR EVIDENCE OF CONTRACTOR'S REVIEW AND APPROVAL.
C. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR CONFORMANCE WITH DESIGN CONCEPT AND INFORMATION INDICATED IN CONTRACT DOCUMENTS. ACCURACY, COMPLETENESS, DIMENSIONS, QUANTITIES, SAFETY PRECAUTIONS, CONSTRUCTION MEANS AND METHODS, SEQUENCE OF CONSTRUCTION, COORDINATION WITH OTHER TRADES AND PERFORMANCE OF SYSTEMS REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
D. REVIEW BY THE ENGINEER IS NOT FOR THE PURPOSE OF APPROVING CHANGES OR SUBSTITUTIONS.

13. SOILS:
A. INFORMATION ABOUT THE SOILS ON THIS SITE IS PRESENTED IN A REPORT PREPARED BY GFA INTERNATIONAL, DATED AUGUST 2, 2013. REVIEW THIS REPORT AND FOLLOW ITS RECOMMENDATIONS UNLESS OTHERWISE INDICATED IN THESE DRAWINGS. CONTRACTOR MAY OBTAIN SUPPLEMENTAL INFORMATION THROUGH ADDITIONAL SOILS EXPLORATION, TESTING AND ANALYSIS IF DESIRED. COORDINATE WITH THE OWNER FOR SITE ACCESS.
B. ACCORDING TO THE ABOVE REFERENCED REPORT, THE SOILS AT THE BORING LOCATIONS CONSIST OF LOOSELY POORLY GRADED SAND WITH SOME SHELL FRAGMENTS.

14. SOILS PREPARATION & ALLOWABLE BEARING:
A. STRIP ALL AREAS OF NEW CONSTRUCTION PLUS A FIVE FOOT PERIMETER OF EXISTING CONSTRUCTION TO BE REMOVED, PLANT, TOP SOIL AND OTHER DELETERIOUS MATERIAL. FURTHER EXCAVATE EXISTING SOIL TO TWO FEET BELOW EXITING GRADE. WHERE REQUIRED, EXCAVATE THE EXISTING SOIL TO THE BOTTOM OF PROPOSED SLAB OR FOOTING ELEVATION. VISUALLY INSPECT THE ENTIRE BUILDING AREA. IF SOILS DIFFERENT FROM THOSE INDICATED ABOVE ARE ENCOUNTERED, NOTIFY THE ENGINEER FOR DIRECTION. THOROUGHLY COMPACT ENTIRE AREA, INCLUDING THE FIVE FOOT PERIMETER BY AT LEAST EIGHT PASSES IN EACH OF TWO PERPENDICULAR DIRECTIONS OF A VIBRATING COMPACTOR TO ACHIEVE A MINIMUM OF 98% OF MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D1557. WHERE REQUIRED, PLACE CRUSHED LIMEROCK FILL (NO ROCKS GREATER THAN 2 INCHES). EXCAVATED MATERIAL MAY BE USED FOR BACKFILL IF FREE OF ORGANIC, MUCK OR OTHER DELETERIOUS MATERIALS AND IF DEEMED TO BE ACCEPTABLE BY THE GEOTECHNICAL ENGINEER. PLACE FILL IN MAXIMUM EIGHT INCH LIFTS. COMPACT EACH LIFT TO A MINIMUM OF 98% OF MAXIMUM DENSITY. PRIOR TO COMPACTION, MOISTEN OR DRY SOIL TO ACHIEVE A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557.
B. MONITOR NEARBY EXISTING STRUCTURES DURING COMPACTION. CEASE OPERATIONS IF ANY SIGNS OF SETTLEMENT OR OTHER DELETERIOUS CONDITIONS ARE OBSERVED. NOTIFY ENGINEER FOR DIRECTION.
C. TEST ALL LAYERS OF SOILS, INCLUDING EXPOSED EXISTING SOILS, FILL AND BACKFILL FOR DENSITY. SUBMIT TEST REPORTS TO THE ENGINEER. CONDUCT A MINIMUM OF ONE TEST IN EACH ISOLATED FOOTING, FOR EACH 2,000 SQUARE FEET OF FLOOR OR PAVEMENT AREA, FOR EACH 50 LINEAR FEET OF WALL FOOTING AND AS OTHERWISE DIRECTED BY THE ENGINEER.
D. ALL SOIL PREPARATION OPERATIONS SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER (EXPOSE, BLEMISH, INSPECT). WHO SHALL ISSUE A STATEMENT OF COMPLIANCE.
E. DO NOT PLACE ANY CONSTRUCTION ON PREPARED SOILS UNTIL A MINIMUM OF TWO WEEKS AFTER SOIL PREPARATION IS COMPLETED.
F. WITH THE SOILS PREPARATION DESCRIBED ABOVE, THE ALLOWABLE SOIL BEARING CAPACITY IS EXPECTED TO BE AT LEAST 2,000 PSF.

15. POLYETHYLENE SHEET:
PLACE MINIMUM 6 MIL. THICK POLYETHYLENE SHEET CONTINUOUSLY UNDER CONCRETE SLABS PLACED ON GROUND. LAP SPLICE ALL JOINTS MINIMUM 12 INCHES AND CONTINUOUSLY TAPE WITH MINIMUM OF TWO-INCH WIDE VINYL TAPE. AT ALL PENETRATIONS, EXTEND POLYETHYLENE SHEET TO WITHIN 1/2 INCH OF PENETRATING OBJECT AND SEAL TO OBJECT ALL AROUND WITH TWO-INCH WIDE VINYL TAPE. ALSO, EXTEND POLYETHYLENE SHEET ONE INCH ON TO STEM WALL GRADE BEAM OR FOOTING. IF THIS IS NOT POSSIBLE, THEN ASSURE CONTACT WITH VERTICAL STRUCTURAL MEMBER AND EXTEND VERTICALLY, BUT NOT MORE THAN ONE HALF THE SLAB THICKNESS. REPAIR ANY HOLES OR TEARS IN SHEET BY INSTALLING AN OVERLAY SHEET EXTENDING TWELVE INCHES BEYOND DAMAGED AREA AND SEALED TO LOWER SHEET WITH TWO INCH WIDE VINYL TAPE.

16. CONCRETE (CAST-IN-PLACE):
A. STANDARDS: ACI 301, ACI 347, ACI 207 AND ACI 117.
B. CONCRETE MIXES
1. SUBMIT CONCRETE MIX DESIGNS TO ENGINEER FOR REVIEW PRIOR TO USE.
2. PROPORTION ALL NORMAL-WEIGHT CONCRETE IN ACCORDANCE WITH ACI 301 TO ATTAIN THE FOLLOWING PROPERTIES:

CONCRETE LOCATION	COMPRESSIVE STRENGTH	NOTES
ALL LOCATIONS	5,000 PSI @ 28 DAYS	

3. SLUMP SHALL BE 4" (±1") FOR REGULAR MIXES AND NOT GREATER THAN 9" FOR MIXES WITH WATER-REDUCING ADMIXTURES. ADD NO WATER TO THE CONCRETE AT THE SITE, UNLESS OTHERWISE APPROVED BY THE ENGINEER IN ADVANCE AND ONLY IF TEST SAMPLES ARE TAKEN AFTER ADDITION OF THE APPROVED WATER.
4. CEMENTITIOUS MATERIALS:
a. CEMENT: ASTM C150, TYPE I, UNLESS OTHERWISE NOTED.
b. FLY ASH: ASTM C818, CLASS F.
c. GROUND GRANULATED BLAST-FURNACE SLAG: ASTM C989 GRADE 100 OR 120
d. LIMIT PERCENTAGE OF FLY ASH, SLAG OR COMBINATION FLY ASH AND SLAG TO 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIALS, UNLESS OTHERWISE NOTED.
5. CONCRETE FOR AREAS WHICH WILL REMAIN EXPOSED TO WEATHER AFTER CONSTRUCTION SHALL HAVE 3 PERCENT TO 5 PERCENT ENTRAINED AIR. DO NOT USE AIR ENTRAINING ADMIXTURE FOR HARD-TROWEL FINISHED (POWER TROWEL) SLABS.
6. MAXIMUM WATER:CEMENT RATIO FOR ALL CONCRETE SHALL BE 0.50 (UNLESS OTHERWISE NOTED). FOR INTERIOR SLABS ON POLYETHYLENE SHEET ON GROUND, MAXIMUM WATER CONTENT SHALL BE 33 GALLONS PER CUBIC YARD.
7. PUMP MIXES MAY BE USED FOR FOUNDATIONS AND COLUMNS WITH PRIOR APPROVAL BY THE ENGINEER.
8. LARGE-AGGREGATE PUMP MIXES WITH WATER-REDUCING ADMIXTURES MAY BE USED FOR BEAMS AND SLABS WITH PRIOR APPROVAL OF THE ENGINEER. PEA ROCK PUMP MIXES WILL NOT BE APPROVED.
9. COARSE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-33.
10. WATER: ASTM C-1602.
11. READY-MIX CONCRETE: ASTM C-94.
C. CONTRACT AN INDEPENDENT TESTING LABORATORY TO PERFORM THE CONCRETE CYLINDER SAMPLING AND TESTING AS REQUIRED BY SECTION 1903.2 OF THE FLORIDA BUILDING CODE, 2010. SUBMIT TEST REPORTS TO THE ENGINEER.
D. PROVIDE ALL FORMING AND TEMPORARY SHORING.
E. DO NOT EMBED PIPES OR CONDUITS EXCEEDING 1/3 THE SLAB THICKNESS IN OUTSIDE DIAMETER IN THE CONCRETE FLOOR WITHOUT THE WRITTEN APPROVAL FROM THE ENGINEER. WHERE PIPES OR CONDUITS ARE PERMITTED, PLACE NO CLOSER THAN THREE DIAMETERS O.C. AND LOCATE SO AS NOT TO IMPAIR THE STRENGTH OR PERFORMANCE OF THE STRUCTURE.
F. REINFORCEMENT:
1. STANDARD: ASTM A-615, GRADE 60, ASTM A185 FOR WELDED WIRE FABRIC, ASTM A706 WHERE WELDED.
2. GALVANIZED: ASTM A-615, GRADE 60, ASTM A767 CLASS 1 ZINC COATED AFTER FABRICATION AND BENDING. REPAIR ALL DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS IN ACCORDANCE WITH ASTM A-780. USE GALVANIZED OR EPOXY-COATED WIRE REINFORCEMENT OR ALL PLASTIC REINFORCEMENT SUPPORTS. USE GALVANIZED TIE WIRES.
3. WELDED WIRE FABRIC (W.W.F.): ASTM A185, PLAIN. GALVANIZED FOR ALL EXTERIOR LOCATIONS AND WHERE OTHERWISE INDICATED IN THESE DRAWINGS.
4. REINFORCEMENT PLACEMENT TOLERANCES: COMPLY WITH SECTION 2.2 OF ACI 117-90

G. CONCRETE COVER OVER REINFORCEMENT: UNLESS OTHERWISE INDICATED IN THESE DRAWINGS, PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS:
1. 3 INCHES WHERE CAST AGAINST EARTH
2. 2 INCHES FOR COLUMNS AND BEAMS AND 1-1/2 INCHES FOR SLABS WHERE CAST IN FORMS OR ON POLYETHYLENE SHEET AND PERMANENTLY EXPOSED TO WEATHER OR EARTH
3. 1-1/2 INCHES FOR INTERIOR COLUMNS AND BEAMS, AND FOR EXTERIOR WALLS, SLABS AND STAIRS AND AT OTHER LOCATIONS NOT OTHERWISE LOCATED HERE
4. 3/4-INCH FOR INTERIOR WALLS, SLABS AND STAIRS
H. STEEL REINFORCEMENT SHOP DRAWINGS:
SUBMIT REINFORCEMENT PLACING DRAWINGS TO ENGINEER THAT DETAIL BENDING AND PLACEMENT. INCLUDE BAR SIZES, LENGTHS, MATERIAL AND GRADE. INCLUDE DRAWINGS, SCHEDULES AND DIAGRAMS AS NECESSARY TO CLEARLY INDICATE ALL BARS, ARRANGEMENT, SPLICES, SPACING AND SUPPORTS.
I. CASTING TOLERANCES: THESE TOLERANCES ARE A MINIMUM STANDARD FOR GENERAL STRUCTURAL PERFORMANCE. PROVIDE MORE STRINGENT TOLERANCES WHERE REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS FOR ESTHETICS, FINISH SYSTEMS, EQUIPMENT OR OTHER CONSTRUCTION.
1. COMPLY WITH ALL REQUIREMENTS OF ACI 117-90
2. FLOOR FLATNESS:
a. "FLAT" AS DEFINED IN 4.5.7 OF ACI 117-90, WITH MAXIMUM 3/16 INCH GAP UNDER A 10 ft. STRAIGHTEDGE PLACED ANYWHERE ON THE SLAB AND ALLOWING IT TO REST UPON ANY TWO HIGH SPOTS.
J. MAKE CONSTRUCTION JOINTS IN THE MANNER AND LOCATIONS INDICATED IN THESE DRAWINGS OR AS APPROVED BY THE ENGINEER IN ADVANCE. APPLY ENGINEER-APPROVED BONDING AGENT TO PREVIOUSLY-CAST CONCRETE SURFACES AT VERTICAL CONSTRUCTION JOINTS (SUCH AS BEAM-COLUMN JOINTS).
K. EMBEDMENT OF REINFORCEMENT: UNLESS OTHERWISE INDICATED IN THESE DRAWINGS, EMBED ALL REINFORCING BARS TO THE FAR SIDE (LESS APPROPRIATE COVERAGE) OF CONNECTING AND SUPPORTING MEMBERS.
L. REINFORCING LAP SPLICES
1. UNLESS OTHERWISE INDICATED OR APPROVED BY THE ENGINEER IN ADVANCE, MAKE SPLICES FOR REINFORCING BARS BY LAPPING BARS. UNLESS OTHERWISE NOTED, LAP SPLICE COLUMN AND WALL BARS ABOVE FLOOR AND FOOTING LEVELS. UNLESS OTHERWISE NOTED FOR BEAMS AND SLABS, PLACE LAP SPLICES FOR TOP BARS WITHIN THE MIDDLE THIRD OF THE SPANS AND PLACE LAP SPLICES FOR BOTTOM BARS AND INTERMEDIATE BARS CENTERED OVER SUPPORTS, OR WHEN THIS IS NOT POSSIBLE, PLACE THEM WITHIN ONE THIRD OF THE SPAN LENGTH FROM THE CENTERLINE OF THE SUPPORTING COLUMN OR WALL. U.O.N., LENGTHS OF TENSION LAP SPLICES SHALL BE IN ACCORDANCE WITH "TENSION DEVELOPMENT AND LAP SPLICE LENGTHS FOR REINFORCING BARS" ON DRAWING No. S101.
2. LAP SPLICE WELDED WIRE FABRIC MINIMUM ONE FULL MESH DIMENSION.
M. SAWCUT CONTROL JOINTS AS SOON AS THE CONCRETE SURFACE WILL NOT BE DAMAGED BY SAWCUTTING, AND NO MORE THAN TWELVE HOURS AFTER CONCRETE PLACEMENT. MAKE SAW-CUT JOINTS WHERE INDICATED.
N. FINISH ALL CONCRETE IN ACCORDANCE WITH ACI 117-301 AND ACI 301, AS INDICATED IN THESE DRAWINGS AND AS APPROPRIATE FOR THE ARCHITECTURAL FINISHES INDICATED IN THE ARCHITECTURAL DRAWINGS. GIVE A LIGHT BROOM FINISH TO ALL EXTERIOR CONCRETE WALKING SURFACES AND TO ALL SURFACES WHICH ARE TO RECEIVE A TILE OR STONE FINISH.
O. CURE ALL CONCRETE FOR MINIMUM OF SEVEN DAYS. THE CURING SHALL ENTAIL MAINTENANCE OF THE MOISTURE IN THE CONCRETE. GENERALLY, THIS SHALL BE ACCOMPLISHED BY TREATING EXPOSED CONCRETE SURFACES WITH A CHEMICAL CURING COMPOUND IMMEDIATELY AFTER FINISHING AND IMMEDIATELY AFTER REMOVAL OF FORMS. FORMS SHALL BE KEPT MOIST BY FREQUENT WATER SPRAYING PRIOR TO REMOVAL. CURING COMPOUND SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-309. VERIFY COMPATIBILITY OF CURING COMPOUND WITH PROPOSED FINISHES, OR COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLYING FINISHES.

17. SPLICING OF REINFORCING BARS TO EXISTING REINFORCING BARS:
A. STANDARDS: ACI 318, AWS D1.4 AND AWS D1.1.
B. MECHANICAL SPLICES MAY BE USED, PROVIDED THEY DEVELOP AT LEAST 125% OF THE YIELD STRENGTH OF THE ATTACHED BAR. CONTRACTOR SHALL SUBMIT MANUFACTURER'S TEST DATA.
C. WELDED SPLICES SHALL LIKEWISE DEVELOP AT LEAST 125% OF THE YIELD STRENGTH OF THE ATTACHED BAR. A COMPLETE CHEMICAL ANALYSIS SHALL BE PROVIDED FOR ALL BARS, INCLUDING EXISTING BARS. ALL BARS WHICH ARE TO BE WELDED SHALL HAVE A CARBON EQUIVALENT OF LESS THAN 0.55%. REINFORCING BARS SHALL BE BUTT WELDED USING A SINGLE VEE OR DOUBLE VEE GROOVE JOINT WITH A GROOVE ANGLE OF 45° TO 60°. THE ROOT OPENING SHALL BE 1/8" ETOXX OR E60XX. (AS INDICATED IN AWS D1.4), AND LOW-HYDROGEN ELECTRODES SHALL BE USED. THE REINFORCING BARS SHALL BE PREHEATED AS REQUIRED BY AWS D1.4
D. LAP SPLICE BARS AS INDICATED ABOVE.
E. REINFORCING BARS FOR WELDING SHALL COMPLY WITH ASTM A706.

18. REINFORCED CONCRETE MASONRY:
A. HOLLOW CONCRETE MASONRY UNITS: ASTM C90 "STANDARD SPECIFICATIONS FOR HOLLOW LOAD BEARING CONCRETE MASONRY UNITS." MINIMUM ALLOWABLE COMPRESSIVE STRESS ON NET AREA SHALL BE FC' = 1900 PSI, OR AS OTHERWISE REQUIRED. C.M.U. SHALL MEET THE MINIMUM EQUIVALENT THICKNESS FOR 2-HOUR FIRE-RATED WALLS AS INDICATED IN TABLE 721.3.2 OF THE FLORIDA BUILDING CODE 2010. SUBMIT CERTIFICATES OF FIRE RATING FROM C.M.U. MANUFACTURER
B. MORTAR SHALL COMPLY WITH ASTM, C270, TYPE M OR S.
C. REINFORCEMENT BARS: ASTM A615, GRADE 60.
D. PLACE CONCRETE MASONRY UNITS: IN STANDARD RUNNING BOND PATTERN. BOND MASONRY WITH OVERLAPPING UNITS AT WALL CORNERS AND INTERSECTIONS, UNLESS OTHERWISE NOTED. ALL MORTAR JOINTS SHALL BE 3/8" THICK. WHERE C.M.U. WILL REMAIN EXPOSE TO VIEW, TOOL MORTAR JOINTS WITH ROUNDED JOINTER. IN OTHER LOCATIONS, STRIKE FLUSH. FULLY MORTAR FACE SHELLS AT ALL HORIZONTAL AND VERTICAL JOINTS. FULLY MORTAR WEB SHELLS AS WELL AT FOUNDATION. FULLY MORTAR WEB SHELLS AT ALL CELLS WHICH ARE TO BE GROUTED. UNUSED MORTAR SHALL BE DISCARDED WITHIN 2 1/2 HOURS AFTER INITIAL MIXING
E. WHEREVER ANCHOR BOLT IS TO BE SET IN MASONRY, FILL C.M.U. CELLS WITH CONCRETE GROUT FOR MINIMUM 8 INCHES ALL AROUND BOLT.
F. INSTALL GALVANIZED STEEL HORIZONTAL JOINT REINFORCEMENT (No. 9 GAGE, LADDER TYPE) AT EVERY OTHER COURSE. EXTEND HORIZONTAL JOINT REINFORCEMENT MINIMUM 4 INCHES INTO ALL TIE COLUMNS. PROVIDE PREFABRICATED "L" AND "T" SHAPED REINFORCEMENT UNITS AT ALL CORNERS AND INTERSECTIONS RESPECTIVELY. LAP SPLICE REINFORCEMENT MINIMUM SIX INCHES.
G. GROUT: MINIMUM 3000 PSI (OR AS OTHERWISE REQUIRED TO ACHIEVE SPECIFIED fm WHEN VERIFYING MASONRY STRENGTH BY PRISM TESTING) CONCRETE GROUT CONFORMING TO THE REQUIREMENTS OF ASTM C476.
H. COMPLY WITH THE REQUIREMENTS OF SECTION 2122 OF THE FLORIDA BUILDING CODE 2010 AND CURRENT EDITIONS OF ACI 530 AND ACI 530.1.
I. REINFORCED CONCRETE MASONRY PRISM STRENGTH SHALL BE MINIMUM fm = 1,500 psi, AND SHALL BE VERIFIED BY CERTIFICATION OF MASONRY UNIT STRENGTH AND FIELD SAMPLING AND LABORATORY TESTING OF MORTAR AND GROUT. ALTERNATIVELY, PRISM STRENGTH MAY BE VERIFIED BY PRISM TESTING IN ACCORDANCE WITH ASTM E447, METHOD B AND AS OTHERWISE MODIFIED IN ACI 530.1, 1.4.
J. LINTELS: ANY C.M.U. WALL OPENINGS WHICH ARE NOT OTHERWISE FRAMED WITH CONCRETE SHALL HAVE 8"x8" CONCRETE LINTELS OR GROUTED LINTEL BLOCK WITH 2#5 BOTTOM. EXTEND REINFORCEMENT MINIMUM 8" PAST OPENING AND CAST LINTEL WITH MINIMUM 8" BEARING ON ADJACENT COLUMNS OR REINFORCED CELLS.
K. SILLS: UNLESS OTHERWISE FRAMED IN CONCRETE, PROVIDE 8" X 8" CONCRETE (FORMED OR BOND-BEAM BLOCK) WITH 2#5 MID-DEPTH AT ALL SILLS. EXTEND REINFORCEMENT MINIMUM 8" INTO ADJACENT COLUMN OR REINFORCED CELL AND CAST CONCRETE/GROUT MINIMUM 8" INTO ADJACENT COLUMN OR REINFORCED CELL.
L. REINFORCEMENT PLACEMENT: PLACE ALL HORIZONTAL BARS IN BOND BEAM UNITS. WHEN TWO BARS ARE USED, STAGGER LAPS A MINIMUM OF 5-0". VERTICAL REINFORCING SHALL BE HELD IN POSITION USING REBAR POSITIONERS AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS. FOR PARTIALLY GROUTED WALLS, METAL LATH STRIPS, CELL CAPS OR EQUAL SHALL BE USED AS GROUT STOPS AT THE BOTTOM OF STRUCTURAL CONCRETE BEARING ON C.M.U. AND AT THE BOTTOM OF C.M.U. COURSES TO BE FILLED FOR THE EMBEDMENT OF HORIZONTAL BARS. DO NOT USE PAPER OR OTHER UNAPPROVED MATERIAL. LAP SPLICE BARS ONLY WHERE NECESSARY. ALL LAP SPLICE LENGTHS SHALL BE A MINIMUM OF THOSE IN "REBAR DEVELOPMENT AND LAP SPLICE LENGTH "Ld" SCHEDULE FOR MASONRY" ON DRAWING S101
M. PROVIDE CLEANOUT HOLES AT BOTTOMS OF ALL VERTICALLY REINFORCED CELLS. REMOVE ALL DEBRIS AND EXCESS MORTAR. INSPECT FOR COMPLETE GROUT PLACEMENT UPON REMOVAL OF FORM OVER CLEANOUT HOLE.
N. GROUT LIFT HEIGHT: PLACE GROUT IN LIFTS NOT EXCEEDING 5 FEET.
O. GROUT CONSOLIDATION: CONSOLIDATE ALL GROUT BY MECHANICAL VIBRATION USING A 3/4" Ø HEAD LOW VELOCITY VIBRATOR FOR A COUPLE OF SECONDS IN EACH FILLED CELL. RECONSOLIDATION BY VIBRATION MUST BE DONE AFTER THE INITIAL WATER LOSS AND BEFORE INITIAL SET HAS OCCURRED. WHEN GROUTING IS STOPPED FOR A PERIOD OF 1 HOUR OR LONGER, FORM HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUT POUR 1-1/2 INCHES MINIMUM BELOW THE UPPERMOST UNIT, EXCEPT AT TOP OF WALL.
P. PROVIDE MIN. 20 GAGE, GALVANIZED STEEL CONTINUOUS DOVETAIL SLOTS IN ADJACENT CONCRETE COLUMNS WHERE C.M.U. IS INSTALLED AFTER COLUMNS. ANCHOR C.M.U. TO CONCRETE COLUMNS USING MIN. 18 GAGE GALVANIZED CORRUGATED STEEL DOVETAIL MASONRY ANCHORS AT EVERY OTHER COURSE OF C.M.U. IF DOVETAIL SLOTS ARE DAMAGED OR MISPLACED AND CAN NOT BE USED, REMOVE SLOTS, PATCH CONCRETE AND INSTALL MASONRY ANCHORS WITH (1) 3/16" Ø TAPCON SCREW WITH MIN. 1 1/4" EMBED.
Q. DO NOT EMBED PIPES, CONDUIT, OR ANY OTHER CONSTRUCTION IN MASONRY WALLS WITHOUT PRIOR APPROVAL OF ENGINEER.

19. STRUCTURAL STEEL:
A. MATERIALS:
1. STRUCTURAL TUBING: ASTM A500, GRADE B
2. STEEL PIPE: ASTM A53, TYPE E OR S, GRADE B
3. W-SHAPES: ASTM A992
4. ALL OTHER STRUCTURAL STEEL: ASTM A36 (U.O.N.)
5. ANCHOR BOLTS: ASTM A307
6. THREADED RODS: ASTM A36
7. HEADED SHEAR STUDS: AWS D1.1, TYPE B
8. ALL OTHER BOLTS: ASTM A325
B. SHOP DRAWINGS: SUBMIT COMPLETE SHOP DRAWINGS FOR STRUCTURAL STEEL FOR REVIEW BY ENGINEER PRIOR TO FABRICATION.
C. STANDARDS:
1. AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS."
2. AWS D1-1, E-70 SERIES ELECTRODES. ALL WELDERS SHALL BE CERTIFIED BY AWS FOR THE MATERIALS AND FOR THE WELD TYPES, SIZES AND ORIENTATIONS INDICATED IN THESE DRAWINGS. SUBMIT WELDER CERTIFICATIONS TO ENGINEER.
D. CORROSION CONTROL: EXCEPT WHERE STRUCTURAL STEEL IS INDICATED TO BE GALVANIZED, WHERE STRUCTURAL STEEL IS TO BE EMBEDDED IN CONCRETE, WHERE STRUCTURAL STEEL IS TO BE FIELD WELDED AND WHERE STRUCTURAL STEEL IS TO RECEIVE DIRECTLY APPLIED FIREPROOFING MATERIALS, SHOP PAINT ALL STRUCTURAL STEEL WITH RUST- INHIBITIVE PRIMER. TOUCH-UP PRIMER AFTER ERECTION.
E. CORROSION CONTROL: WHERE INDICATED, HOT DIP GALVANIZE STRUCTURAL STEEL (AND ALL ADJOINING CLIPS AND BRACKETS) AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 AND A653. WELDED JOINTS SHALL BE MADE WITH LOW-SILICON ELECTRODES (<0.30%) AND ALL SLAG AND FLUX FROM WELDS MUST BE REMOVED PRIOR TO GALVANIZING. FOR WELDING OF GALVANIZED MEMBERS, REMOVE THE ZINC COATING AT LEAST ONE TO FOUR INCHES FROM BOTH SIDES OF THE INTENDED WELD ZONE ON BOTH PIEC

GENERAL STRUCTURAL NOTES

1. CODES:
ALL WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2010 EDITION AND ALL OTHER APPLICABLE LOCAL CODES.

2. DESIGN CRITERIA FOR WORK INDICATED IN THESE DRAWINGS:
A. ROOF LOADS:
LIVE LOAD: 30 PSF
SUPERIMPOSED DEAD LOAD: 15 PSF (@ ROOF)
10 PSF (@ CEILING)
B. FLOOR LOADS:
LIVE LOAD: GUEST ROOMS - 40 PSF
CORRIDORS & STAIRS - 100 PSF
POOL DECK & PUBLIC AREAS - 100 PSF
SUPERIMPOSED DEAD LOAD: LOBBY & POOL DECK - 35 PSF
ALL OTHER AREAS - 15 PSF
C. WIND LOADS: IN ACCORDANCE WITH ASCE 7-10 [RISK CATEGORY II; 175 MPH ULTIMATE DESIGN WIND SPEED; EXPOSURE C; INTERNAL PRESSURE COEFFICIENTS, ± 0.18]. SEE CALCULATIONS FOR ADDITIONAL INFORMATION.

3. BUILDING PERMIT:
A. OBTAIN BUILDING PERMIT.
B. COMPLY WITH THE REQUIREMENTS OF THE BUILDING PERMIT AND WITH OTHER REQUIREMENTS OF THE PERMITTING AUTHORITY.
C. IF CHANGES TO STRUCTURAL DESIGN ARE ISSUED BY THE ENGINEER, SUBMIT CHANGES TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL. MAINTAIN PERMIT APPROVALS CONCURRENT WITH CONSTRUCTION.

4. CONSTRUCTION DOCUMENTS:
A. EXAMINE AND STUDY ALL CONSTRUCTION DOCUMENTS PRIOR TO COMMENCEMENT OF WORK. DIRECT ANY QUESTIONS TO THE ENGINEER.

5. ELEVATION DATUM:
ALL ELEVATIONS ON THESE STRUCTURAL DRAWINGS REFER TO COLLINS AVENUE SIDEWALK DATUM = +0'-0" (SEE ARCHITECTURAL DRAWINGS).

6. COORDINATION AND DIMENSIONS:
A. COORDINATE ALL DIMENSIONS AND ELEVATIONS BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. VERIFY ALL DIMENSIONS AND CONDITIONS RELATED TO EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION. BRING ANY DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ENGINEER. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE. SCALE IS FOR GUIDELINE PURPOSES ONLY. IF DIMENSIONS ARE UNCLEAR, DO NOT SCALE. REQUEST CLARIFICATION FROM THE ENGINEER.
B. COORDINATE THE STRUCTURAL WORK WITH THE WORK OF ALL OTHER TRADES.
C. COORDINATE THE STRUCTURAL WORK WITH SLAB DEPRESSIONS, MECHANICAL OPENINGS, PIPING AND CONDUITS AS SHOWN ON OTHER DRAWINGS.
D. COORDINATE ALL DIMENSIONS RELATIVE TO MANUFACTURED ITEMS, SUCH AS ELEVATORS, ESCALATORS, DOORS,WINDOWS, SKYLIGHTS, ACCESS PANELS AND HEATING, VENTILATING AND AIR-CONDITIONING EQUIPMENT.

7. CONFLICTS IN DOCUMENTS:
IF CONFLICTS OCCUR IN OR BETWEEN ARCHITECTURAL AND ENGINEERING DOCUMENTS, BETWEEN DOCUMENTS AND FIELD CONDITIONS OR OTHERWISE, IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND DIRECTION BEFORE PROCEEDING. COORDINATE ALL DIMENSIONS BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.

8. METHODS & SAFETY:
THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION. PROVIDE APPROPRIATE SUPERVISION THROUGHOUT THE PROJECT. CONSTRUCTION SITE SAFETY, INCLUDING ALL ADEQUATE TEMPORARY BRACING AND SHORING, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY THE NECESSARY PROFESSIONAL SERVICES TO DETERMINE THE NECESSARY METHODS AND SUPPORTS REGARDING FORMING AND CONSTRUCTION LOADS. TEMPORARY BRACING AND SHORING SHALL BE DESIGNED TO RESIST ALL CONSTRUCTION LOADS INCLUDING THE WEIGHTS OF ALL SUPPORTED MATERIALS PLUS A LIVE LOAD OF 50 PSF ON HORIZONTAL SURFACES. MAINTAIN TEMPORARY BRACING AND RETAIN IN PLACE UNTIL PERMANENT STRUCTURAL SYSTEMS ARE CAPABLE OF RESISTING ALL CONSTRUCTION PHASE LOADS.

9. PROTECTION OF EXISTING CONSTRUCTION:
DO NOT DAMAGE EXISTING CONSTRUCTION WHICH IS TO REMAIN. LOCATE AND PROTECT CONCEALED PIPES, CONDUITS AND OTHER EXISTING CONSTRUCTION PRIOR TO DEMOLITION AND TAKE APPROPRIATE ACTION TO PROTECT THEM AND TO PROVIDE FOR SAFETY.

10. CONSTRUCTION INSPECTIONS:
NOTIFY THE BUILDING INSPECTOR FOR INSPECTION OF ALL STRUCTURAL ELEMENTS. VERIFY THAT EACH AND EVERY STRUCTURAL ITEM HAS BEEN ACCEPTED BY THE INSPECTOR PRIOR TO PROCEEDING WITH SUBSEQUENT WORK AND/OR CONCEALING ANY STRUCTURAL ITEM. ANY STRUCTURAL ITEM WHICH HAS NOT BEEN SPECIFICALLY ACCEPTED BY THE INSPECTOR AND/OR ANY CONCEALING CONSTRUCTION WILL BE SUBJECT TO REMOVAL AND RECONSTRUCTION.

11. SPECIAL INSPECTION:
BY PROVISION OF THE FLORIDA BUILDING CODE 2010, SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING STRUCTURAL SYSTEMS: SOIL PREPARATION (BY GEOTECHNICAL ENGINEER), STRUCTURAL STEEL CONNECTIONS, REINFORCED MASONRY AND AS MAY OTHERWISE BE REQUIRED BY THE BUILDING OFFICIAL. NOTIFY SPECIAL INSPECTOR FOR INSPECTION OF ALL COMPONENTS OF THESE SYSTEMS PRIOR TO THEIR CONCEALMENT BY OTHER CONSTRUCTION. DO NOT CONCEAL ANY COMPONENT OF THESE SYSTEMS UNTIL ACCEPTED BY SPECIAL INSPECTOR AND UNTIL SO INDICATED ON THE SPECIAL INSPECTION LOG. THE SPECIAL INSPECTION LOG WILL BE PREPARED BY SPECIAL INSPECTOR AND GIVEN TO CONTRACTOR FOR KEEPING ON SITE. KEEP THE SPECIAL INSPECTION LOG IN A CLEAN DRY AREA AT THE SITE AND MAKE IT AVAILABLE TO THE SPECIAL INSPECTOR AND TO THE MUNICIPAL BUILDING INSPECTOR UPON REQUEST. THE SPECIAL INSPECTOR WILL MAKE ENTRIES ON THE LOG FOR EACH SITE VISIT AND WILL INDICATE ACCEPTANCE OR REJECTION OF THE ITEMS OBSERVED. ACCEPTANCE APPLIES ONLY TO THOSE SPECIFIC ITEMS SO INDICATED. NO OTHER ITEMS OR AREAS ARE TO BE ASSUMED TO BE ACCEPTED. ANY COMPONENTS OF THE STRUCTURAL SYSTEMS WHICH HAVE BEEN CONCEALED WITHOUT SPECIFIC ACCEPTANCE BY THE SPECIAL INSPECTOR WILL BE REJECTED, AND ANY CONCEALING CONSTRUCTION MUST BE REMOVED. UPON ACCEPTANCE OF ALL COMPONENTS OF ALL SYSTEMS, RETURN SPECIAL INSPECTION LOG TO THE SPECIAL INSPECTOR.

12. SHOP DRAWINGS:
A. SUBMIT TO THE ENGINEER COMPLETE SHOP DRAWINGS AS REQUIRED BY THESE CONTRACT DOCUMENTS.
B. CHECK ALL SHOP DRAWINGS FOR COMPLIANCE AND COMPLETENESS PRIOR TO SUBMITTAL. ALL SHOP DRAWINGS SHALL BEAR EVIDENCE OF CONTRACTOR'S REVIEW AND APPROVAL.
C. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR CONFORMANCE WITH DESIGN CONCEPT AND INFORMATION INDICATED IN CONTRACT DOCUMENTS. ACCURACY, COMPLETENESS, DIMENSIONS, QUANTITIES, SAFETY PRECAUTIONS, CONSTRUCTION MEANS AND METHODS, SEQUENCE OF CONSTRUCTION, COORDINATION WITH OTHER TRADES AND PERFORMANCE OF SYSTEMS REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
D. REVIEW BY THE ENGINEER IS NOT FOR THE PURPOSE OF APPROVING CHANGES OR SUBSTITUTIONS.

13. SOILS:
A. INFORMATION ABOUT THE SOILS ON THIS SITE IS PRESENTED IN A REPORT PREPARED BY GFA INTERNATIONAL, DATED AUGUST 2, 2013. REVIEW THIS REPORT AND FOLLOW ITS RECOMMENDATIONS UNLESS OTHERWISE INDICATED IN THESE DRAWINGS. CONTRACTOR MAY OBTAIN SUPPLEMENTAL INFORMATION THROUGH ADDITIONAL SOILS EXPLORATION, TESTING AND ANALYSIS IF DESIRED. COORDINATE WITH THE OWNER FOR SITE ACCESS.
B. ACCORDING TO THE ABOVE REFERENCED REPORT, THE SOILS AT THE BORING LOCATIONS CONSIST OF LOOSELY POORLY GRADED SAND WITH SOME SHELL FRAGMENTS.

14. SOILS PREPARATION & ALLOWABLE BEARING:
A. STRIP ALL AREAS OF NEW CONSTRUCTION PLUS A FIVE FOOT PERIMETER OF EXISTING CONSTRUCTION TO BE REMOVED, PLANT, TOP SOIL AND OTHER DELETERIOUS MATERIAL. FURTHER EXCAVATE EXISTING SOIL TO TWO FEET BELOW EXITING GRADE. WHERE REQUIRED, EXCAVATE THE EXISTING SOIL TO THE BOTTOM OF PROPOSED SLAB OR FOOTING ELEVATION. VISUALLY INSPECT THE ENTIRE BUILDING AREA. IF SOILS DIFFERENT FROM THOSE INDICATED ABOVE ARE ENCOUNTERED, NOTIFY THE ENGINEER FOR DIRECTION. THOROUGHLY COMPACT ENTIRE AREA, INCLUDING THE FIVE FOOT PERIMETER BY AT LEAST EIGHT PASSES IN EACH OF TWO PERPENDICULAR DIRECTIONS OF A VIBRATING COMPACTOR TO ACHIEVE A MINIMUM OF 98% OF MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D1557, WHERE REQUIRED, PLACE CRUSHED LIMEROCK FILL (NO ROCKS GREATER THAN 2 INCHES). EXCAVATED MATERIAL MAY BE USED FOR BACKFILL IF FREE OF ORGANIC, MUCK OR OTHER DELETERIOUS MATERIALS AND IF DEEMED TO BE ACCEPTABLE BY THE GEOTECHNICAL ENGINEER. PLACE FILL IN MAXIMUM EIGHT INCH LIFTS. COMPACT EACH LIFT TO A MINIMUM OF 95% OF MAXIMUM DENSITY. PRIOR TO COMPACTION, MOISTEN OR DRY SOIL TO ACHIEVE A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D1557.
B. MONITOR NEARBY EXISTING STRUCTURES DURING COMPACTION. CEASE OPERATIONS IF ANY SIGNS OF SETTLEMENT OR OTHER DELETERIOUS CONDITIONS ARE OBSERVED. NOTIFY ENGINEER FOR DIRECTION.
C. TEST ALL LAYERS OF SOILS, INCLUDING EXPOSED EXISTING SOILS, FILL AND BACKFILL FOR DENSITY. SUBMIT TEST REPORTS TO THE ENGINEER. CONDUCT A MINIMUM OF ONE TEST IN EACH ISOLATED FOOTING, FOR EACH 2,000 SQUARE FEET OF FLOOR OR PAVEMENT AREA, FOR EACH 50 LINEAR FEET OF WALL FOOTING AND AS OTHERWISE DIRECTED BY THE ENGINEER.
D. ALL SOIL PREPARATION OPERATIONS SHALL BE MONITORED BY A GEOTECHNICAL ENGINEER (SPECIAL INSPECTOR), WHO SHALL ISSUE A STATEMENT OF COMPLIANCE.
E. DO NOT PLACE ANY CONSTRUCTION ON PREPARED SOILS UNTIL A MINIMUM OF TWO WEEKS AFTER SOIL PREPARATION IS COMPLETED.
F. WITH THE SOILS PREPARATION DESCRIBED ABOVE, THE ALLOWABLE SOIL BEARING CAPACITY IS EXPECTED TO BE AT LEAST 2,000 PSF.

15. POLYETHYLENE SHEET:
PLACE MINIMUM 6 MIL. THICK POLYETHYLENE SHEET CONTINUOUSLY UNDER CONCRETE SLABS PLACED ON GROUND. LAP SPLICE ALL JOINTS MINIMUM 12 INCHES AND CONTINUOUSLY TAPE WITH MINIMUM OF TWO-INCH WIDE VINYL TAPE. AT ALL PENETRATIONS, EXTEND POLYETHYLENE SHEET TO WITHIN 1/2 INCH OF PENETRATING OBJECT AND SEAL TO OBJECT ALL AROUND WITH TWO-INCH WIDE VINYL TAPE. ALSO, EXTEND POLYETHYLENE SHEET ONE INCH ON TO STEM WALL GRADE BEAM OR FOOTING. IF THIS IS NOT POSSIBLE, THEN ASSURE CONTACT WITH VERTICAL STRUCTURAL MEMBER AND EXTEND VERTICALLY, BUT NOT MORE THAN ONE HALF THE SLAB THICKNESS. REPAIR ANY HOLES OR TEARS IN SHEET BY INSTALLING AN OVERLAY SHEET EXTENDING TWELVE INCHES BEYOND DAMAGED AREA AND SEALED TO LOWER SHEET WITH TWO INCH WIDE VINYL TAPE.

16. CONCRETE (CAST-IN-PLACE):
A. STANDARDS: ACI 301, ACI 347, ACI 207 AND ACI 117.
B. CONCRETE MIXES
1. SUBMIT CONCRETE MIX DESIGNS TO ENGINEER FOR REVIEW PRIOR TO USE.
2. PROPORTION ALL NORMAL-WEIGHT CONCRETE IN ACCORDANCE WITH ACI 301 TO ATTAIN THE FOLLOWING PROPERTIES:

CONCRETE LOCATION	COMPRESSIVE STRENGTH	NOTES
ALL LOCATIONS	5,000 PSI @ 28 DAYS	

3. SLUMP SHALL BE 4" (±1") FOR REGULAR MIXES AND NOT GREATER THAN 9" FOR MIXES WITH WATER-REDUCING ADMIXTURES. ADD NO WATER TO THE CONCRETE AT THE SITE, UNLESS OTHERWISE APPROVED BY THE ENGINEER IN ADVANCE AND ONLY IF TEST SAMPLES ARE TAKEN AFTER ADDITION OF THE APPROVED WATER.
4. CEMENTITIOUS MATERIALS:
a. CEMENT: ASTM C150, TYPE I, UNLESS OTHERWISE NOTED.
b. FLY ASH: ASTM C618, CLASS F.
c. GROUND GRANULATED BLAST-FURNACE SLAG: ASTM C989 GRADE 100 OR 120
d. LIMIT PERCENTAGE OF FLY ASH, SLAG OR COMBINATION FLY ASH AND SLAG TO 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIALS, UNLESS OTHERWISE NOTED.
5. CONCRETE FOR AREAS WHICH WILL REMAIN EXPOSED TO WEATHER AFTER CONSTRUCTION SHALL HAVE 3 PERCENT TO 5 PERCENT ENTRAINED AIR. DO NOT USE AIR ENTRAINING ADMIXTURE FOR HARD-TROWEL FINISHED (POWER TROWEL) SLABS.
6. MAXIMUM WATER-CEMENT RATIO FOR ALL CONCRETE SHALL BE 0.50 (UNLESS OTHERWISE NOTED), FOR INTERIOR SLABS ON POLYETHYLENE SHEET ON GROUND, MAXIMUM WATER CONTENT SHALL BE 33 GALLONS PER CUBIC YARD.
7. PUMP MIXES MAY BE USED FOR FOUNDATIONS AND COLUMNS WITH PRIOR APPROVAL BY THE ENGINEER.
8. LARGE-AGGREGATE PUMP MIXES WITH WATER-REDUCING ADMIXTURES MAY BE USED FOR BEAMS AND SLABS WITH PRIOR APPROVAL OF THE ENGINEER. PEA ROCK PUMP MIXES WILL NOT BE APPROVED.
9. COARSE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-33.
10. WATER: ASTM C-1602.
11. READY-MIX CONCRETE: ASTM C-94.
C. CONTRACT AN INDEPENDENT TESTING LABORATORY TO PERFORM THE CONCRETE CYLINDER SAMPLING AND TESTING AS REQUIRED BY SECTION 1923.2 OF THE FLORIDA BUILDING CODE, 2010. SUBMIT TEST REPORTS TO THE ENGINEER.
D. PROVIDE ALL FORMING AND TEMPORARY SHORING.
E. DO NOT EMBED PIPES OR CONDUITS EXCEEDING 1/3 THE SLAB THICKNESS IN OUTSIDE DIAMETER IN THE CONCRETE FLOOR WITHOUT THE WRITTEN APPROVAL FROM THE ENGINEER. WHERE PIPES OR CONDUITS ARE PERMITTED, PLACE NO CLOSER THAN THREE DIAMETERS O.C. AND LOCATE SO AS NOT TO IMPAIR THE STRENGTH OR PERFORMANCE OF THE STRUCTURE.
F. REINFORCEMENT:
1. STANDARD: ASTM A-615, GRADE 60, ASTM A185 FOR WELDED WIRE FABRIC, ASTM A706 WHERE WELDED.
2. GALVANIZED: ASTM A-615, GRADE 60, ASTM A767 CLASS 1 ZINC COATED AFTER FABRICATION AND BENDING. REPAIR ALL DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS IN ACCORDANCE WITH ASTM A-780. USE GALVANIZED OR EPOXY-COATED WIRE REINFORCEMENT OR ALL PLASTIC REINFORCEMENT SUPPORTS. USE GALVANIZED TIE WIRES.
3. WELDED WIRE FABRIC (W.W.F.): ASTM A185, PLAIN. GALVANIZED FOR ALL EXTERIOR LOCATIONS AND WHERE OTHERWISE INDICATED IN THESE DRAWINGS.
4. REINFORCEMENT PLACEMENT TOLERANCES: COMPLY WITH SECTION 2.2 OF ACI 117-90

G. CONCRETE COVER OVER REINFORCEMENT: UNLESS OTHERWISE INDICATED, PROVIDE MINIMUM COVER FOR REINFORCEMENT AS FOLLOWS:
1. 3 INCHES WHERE CAST AGAINST EARTH
2. 2 INCHES FOR COLUMNS AND BEAMS AND 1-1/2 INCHES FOR SLABS WHERE CAST ON POLYETHYLENE SHEET AND PERMANENTLY EXPOSED TO WEATHER
3. 1-1/2 INCHES FOR INTERIOR COLUMNS AND BEAMS, AND FOR SLABS AND WALLS NOT EXPOSED AT OTHER LOCATIONS NOT OTHERWISE LOCATED HERE
4. 3/4-INCH FOR INTERIOR WALLS, SLABS AND STAIRS
H. STEEL REINFORCEMENT SHOP DRAWINGS:
SUBMIT REINFORCEMENT PLACING DRAWINGS TO ENGINEER FOR REVIEW. INDICATE MATERIAL AND GRADE. INCLUDE DRAWINGS, SCHEDULE AND ARRANGEMENT, SPLICES, SPACING AND SUPPORTS.
I. CASTING TOLERANCES: THESE TOLERANCES ARE A MINIMUM. PROVIDE STRINGENT TOLERANCES WHERE REQUIRED ELSEWHERE BY ARCHITECTURAL EQUIPMENT OR OTHER CONSTRUCTION.
1. COMPLY WITH ALL REQUIREMENTS OF ACI 117-90.
2. FLOOR FLATNESS:
a. "FLAT" AS DEFINED IN 4.5.7 OF ACI 117-90, WITH A 10 FOOT STRAIGHTEDGE PLACED ANYWHERE ON THE SURFACE, MAXIMUM 1/4" SPOTS.
J. MAKE CONSTRUCTION JOINTS IN THE MANNER INDICATED OR AS APPROVED IN ADVANCE. APPLY ENGINEER-APPROVED BONDING AGENT AT ALL JOINTS (SUCH AS BEAM-COLUMN JOINTS).
K. EMBEDMENT OF REINFORCEMENT: UNLESS OTHERWISE INDICATED, PROVIDE FULL SIDE (LESS APPROPRIATE COVERAGE) OF
L. REINFORCING LAP SPLICES
1. UNLESS OTHERWISE INDICATED OR APPROVED, LAP REINFORCING BARS BY LAPPING BARS ABOVE FLOOR AND FOOT
LAP SPLICES FOR TOP BARS, BOTTOM BARS AND INTERME
PLACE THEM WITHIN ONE
COLUMN OR WALL. U.O.N
DEVELOPMENT AND LAP
2. LAP SPLICE WELDED P
M. SAWCUT CONTROL JOINTS
TWELVE HOURS AFTER
N. FINISH ALL CONCRE
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17. SPLICING OF REINF
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B. SHOP DRAWIN
C. STANDARDS:
1. AISC "SPECIFI
2. AWS D1-1, E-70
SIZES AND ORIEN
D. CORROSION CONTROL:
EMBEDDED IN CONCRETE
DIRECTLY APPLIED FIREPR
PRIMER AFTER ERECTION.
E. CORROSION CONTROL WHERE
AFTER FABRICATION IN ACCORDANCE
(<0.30%) AND ALL SLAG AND FLUX FRO
REMOVE THE ZINC COATING AT LEAST O
TO WELDING ACCORDING TO AWS D-19.0.
COATINGS AFTER ERECTION AND/OR WELD

20. COLD-FORMED STEEL FRAMING:
A. STANDARDS:
1. ASTM A1003 (STEEL SHEET)
2. ASTM C955 (STEEL STUDS)
3. AISI, SPECIFICATION FOR THE DESIGN OF COLD-FORMED STE
4. ASTM C1007 (INSTALLATION)
5. AWS D1.3 (WELDING)
6. MIL-P-21035 (GALVANIZED REPAIR)
7. FF-P-395 (POWER DRIVEN FASTENERS)
B. GALVANIZING: G60
C. SCREWS: ASTM C1513, ZINC COATED.
D. PROVIDE ALL ACCESSORIES, CONNECTIONS, FASTENERS, ETC., AS REQUIRED TO MEE

REBAR DEVELOPMENT & LAP SPLICE LENGTH SCHEDULE FOR MASONRY (INCHES)

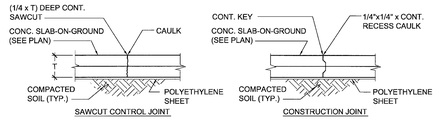
BLOCK SIZE	f 'm	REINFORCING BAR SIZE						
		#3	#4	#5	#6	#7	#8	#9
8"	1500 psi	18"	24"	30"	43"	60"	92"	118"

REBAR DEVELOPMENT & LAP SPLICE SCHEDULE FOR CONCRETE

fc'= 5000 PSI	#6 & SMALLER		#7 & LARGER	
	TOP BARS (2)	OTHER BARS	TOP BARS (2)	OTHER BARS
DEVELOPMENT LENGTH & CLASS "A" SPLICE LENGTH	45 db	34 db	55 db	43 db
CLASS "B" SPLICE LENGTH	58 db	45 db	72 db	55 db

NOTES:

1. "db" DENOTES BAR DIAMETER.
2. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12 IN. OF CONCRETE CAST IN THE MEMBER BELOW THE SPLICE.
3. ALL SPLICES SHALL BE CLASS "B" SPLICE U.O.N.
4. DEVELOPMENT AND LAP SPLICE LENGTHS SHOWN IN SCHEDULE ABOVE ARE BASED ON CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN db, CLEAR COVER NOT LESS THAN db, AND STIRRUPS OR TIES THROUGHOUT THE DEVELOPMENT OR SPLICE LENGTH NOT LESS THAN THE CODE MINIMUM, OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db. FOR OTHER CASES, INCREASE LENGTHS GIVEN IN SCHEDULE ABOVE BY 50%.



C.J. ON PLAN MAY BE CONTROL JOINT OR CONSTRUCTION JOINT

TYPICAL SLAB-ON-GROUND C.J. DETAIL

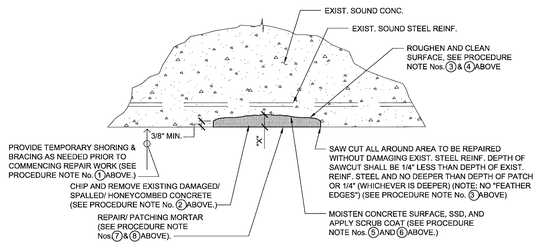
3/4" = 1'-0"

1 S101

PROCEDURE:

1. REMOVE UNNECESSARY LOADS AND PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING TO STRUCTURAL MEMBERS TO REMOVE LOAD TO MEMBER WHICH IS TO BE REPAIRED. WHERE SHORING IS NOT PRACTICAL OR POSSIBLE, REMOVE EXISTING DETERIORATED CONCRETE AND COMPLETE REPAIRS IN SECTIONS SMALL ENOUGH NOT TO REQUIRE SHORING OR BRACING. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES.
2. REMOVE LOOSE AND UNSOUND CONCRETE.
3. PREPARE CONCRETE SURFACE TO BE REPAIRED SUCH THAT THE SURFACE IS ROUGH (SURFACE PROFILE SHALL COMPLY WITH CSP-5 LEVEL IN ACCORDANCE WITH ICRI GUIDELINE 03720 AND HAVE MINIMUM PROJECTIONS OF 1/8"), FREE OF DELAMINATIONS & VOIDS, AND SQUARE ALL EDGES TO ENSURE A MINIMUM 3/8" THICKNESS.
4. CLEAN EXISTING CONCRETE SURFACES OF ALL DIRT, DUST AND OTHER DELETERIOUS MATERIALS SUCH THAT PORE STRUCTURE IS UNCLOGGED AND OPEN. USE BLASTING AND/OR VACUUMING METHODS TO ENSURE PORE STRUCTURE IS PROPERLY PREPARED. INSPECT ALL SURFACES FOR FOREIGN MATERIALS WHICH MIGHT INHIBIT BOND.
5. MOISTEN CONCRETE SURFACES TO BE REPAIRED (SUBSTRATE SHALL BE SATURATED SURFACE DRY (SSD) W/ NO STANDING WATER DURING APPLICATION).
6. APPLY A SCRUB COAT * (FLUID PASTE) OF PATCHING MORTAR (SIKATOP 123 FOR VERTICAL AND OVERHEAD APPICATIONS, SIKATOP 122 PLUS FOR HORIZONTAL APPLICATIONS, OR SIKACRETE 211 MAY BE USED FOR HORIZONTAL PATCHES GREATER THAN 1 INCH THICK (OR APPROVED SUBSTITUTE)) FILLING ALL PORES & VOIDS.
7. WHILE SCRUB COAT IS STILL WET, APPLY PATCHING MORTAR (USE SAME MATERIAL AS SCRUB COAT) USING LOW OR HIGH VELOCITY IMPACT OR OTHER APPROVED INTIMATE CONTACT TECHNIQUE.
8. FOR APPLICATIONS WHERE "X" IS GREATER THAN 1-1/2", APPLY PATCHING MORTAR IN LIFTS OF 1-1/2" MAXIMUM. SCORE THE TOP SURFACE OF EACH PREVIOUS LIFT TO PRODUCE A ROUGHENED SURFACE FOR THE NEXT LIFT. ALLOW EACH PRECEDING LIFT TO REACH FINAL SET (APPROX. 30 MINS.). REPEAT STEPS (4) AND (5) FOR EACH LIFT. (NOTE: THIS STEP IS NOT APPLICABLE TO SIKACRETE 211 APPLICATIONS).

NOTE: USE ALL PRODUCTS IN STRICT ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS.



* FOR OVERHEAD APPLICATIONS ONLY: USE ARMATEC 110 EPOCEM (OR APPROVED SUBSTITUTE) AS A BONDING AGENT IN LIEU OF A SCRUB COAT (FLUID PASTE). MIX, HANDLE AND APPLY BONDING AGENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. APPLY FRESH PATCHING MORTAR WHILE BONDING AGENT IS STILL WET OR W/IN ACCEPTABLE "OPEN TIME", SEE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

TYPICAL REPAIR DETAIL FOR HORIZONTAL, OVERHEAD AND/OR VERTICAL (DAMAGED, HONEYCOMBED, ETC.) CONCRETE SURFACES (NO EXPOSED REINFORCEMENT FOUND),

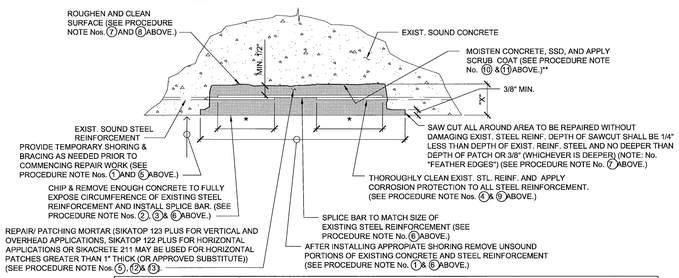
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PROCEDURE:

1. REMOVE UNNECESSARY LOADS AND PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING TO STRUCTURAL MEMBERS TO REMOVE LOAD TO MEMBER WHICH IS TO BE REPAIRED. WHERE SHORING IS NOT PRACTICAL OR POSSIBLE, REMOVE EXISTING DETERIORATED CONCRETE AND COMPLETE REPAIRS IN SECTIONS SMALL ENOUGH NOT TO REQUIRE SHORING OR BRACING. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES.
2. REMOVE ALL LOOSE, DETERIORATED AND UNSOUND CONCRETE.
3. EXPOSE ENTIRE CIRCUMFERENCE OF EXISTING STEEL REINFORCEMENT.
4. CLEAN ALL LOOSE RUST FROM EXISTING STEEL REINFORCEMENT USING HIGH PRESSURE WATER OR ABRASIVE BLAST CLEANING (MECHANICALLY POWERED WIRE BRUSHES MAY ONLY BE USED IF ENTIRE CIRCUMFERENCE OF REINFORCEMENT IS ACCESSIBLE) OR OTHER APPROPRIATE MEANS.
5. WHERE APPROX. 20% OR MORE OF MATERIAL LOSS HAS OCCURRED TO THE EXISTING STEEL REINFORCEMENT, ADEQUATELY SHORE THE DIRECTLY AND INDIRECTLY AFFECTED MEMBERS AND CONTINUE TO STEP 6, OTHERWISE SKIP TO STEP 7 BELOW.
6. CHIP JUST ENOUGH OF THE EXISTING CONCRETE TO EXPOSE THE ADEQUATE LENGTH REQUIRED TO INSTALL SPLICE BAR TO MATCH SIZE OF EXISTING REINFORCEMENT. PROVIDE ADEQUATE CONCRETE COVERAGE. BARS MAY BE LAP SPLICED (MINIMUM 45 BAR DIAMETERS FOR 3/4" Ø BARS AND SMALLER AND 55 BAR DIAMETERS FOR LARGER BARS) OR WELD SPLICED (CONTACT ENGINEER FOR ADDITIONAL INSTRUCTIONS), OR WHERE ADEQUATE COVERAGE IS PROVIDED, BARS MAY BE MECHANICALLY SPLICED (SUBMIT PRODUCT INFORMATION TO ENGINEER).
7. PREPARE CONCRETE SURFACE TO BE REPAIRED SUCH THAT THE SURFACE IS ROUGH (SURFACE PROFILE SHALL COMPLY WITH CSP-5 LEVEL IN ACCORDANCE WITH ICRI GUIDELINE 03720 AND HAVE MINIMUM PROJECTIONS OF 1/8"), FREE OF DELAMINATIONS & VOIDS, AND SQUARE ALL EDGES TO ENSURE A MINIMUM 3/8" THICKNESS.
8. CLEAN EXISTING CONCRETE SURFACES OF ALL DIRT, DUST AND OTHER DELETERIOUS MATERIALS SUCH THAT PORE STRUCTURE IS UNCLOGGED AND OPEN. USE BLASTING AND/OR VACUUMING METHODS TO ENSURE PORE STRUCTURE IS PROPERLY PREPARED. INSPECT ALL SURFACES FOR FOREIGN MATERIALS WHICH MIGHT INHIBIT BOND.
9. CLEAN AND COAT ALL STEEL WITH CORROSION INHIBITING PRIMER, SIKA ARMATEC 110 EPOCEM (OR APPROVED SUBSTITUTE).
10. MOISTEN CONCRETE SURFACES TO BE REPAIRED (SUBSTRATE SHALL BE SATURATED SURFACE DRY (SSD) W/ NO STANDING WATER DURING APPLICATION).
11. APPLY A SCRUB COAT ** (FLUID PASTE) OF PATCHING MORTAR (SIKATOP 123 PLUS FOR VERTICAL AND OVERHEAD APPLICATIONS, SIKATOP 122 PLUS FOR HORIZONTAL APPLICATIONS OR SIKACRETE 211 MAY BE USED FOR HORIZONTAL PATCHES GREATER THAN ONE INCH THICK (OR APPROVED SUBSTITUTE)), FILLING ALL PORES AND VOIDS.
12. WHILE SCRUB COAT AND CORROSION INHIBITING PRIMER ARE IS STILL WET, APPLY PATCHING MORTAR (USE SAME MATERIAL AS SCRUB COAT), USING LOW OR HIGH VELOCITY IMPACT OR OTHER APPROVED INTIMATE CONTACT TECHNIQUE.
13. FOR APPLICATIONS WHERE "X" IS GREATER THAN 1-1/2", APPLY PATCHING MORTAR IN LIFTS OF 1-1/2" MAXIMUM. SCORE THE TOP SURFACE OF EACH PREVIOUS LIFT TO PRODUCE A ROUGHENED SURFACE FOR THE NEXT LIFT. ALLOW EACH PRECEDING LIFT TO REACH FINAL SET (APPROX. 30 MINS). REPEAT STEPS (4) AND (12) FOR EACH LIFT. (NOTE: THIS STEP IS NOT APPLICABLE TO SIKACRETE 211 APPLICATIONS)

NOTE : USE ALL PRODUCTS IN STRICT ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS.



* SEE PROCEDURE NOTE No. 6 ABOVE FOR SPLICE LENGTH

** FOR OVERHEAD APPLICATIONS ONLY: USE ARMATEC 110 EPOCEM (OR APPROVED SUBSTITUTE) AS A BONDING AGENT IN LIEU OF A SCRUB COAT (FLUID PASTE). MIX, HANDLE AND APPLY BONDING AGENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. APPLY FRESH PATCHING MORTAR WHILE BONDING AGENT IS STILL WET OR W/IN ACCEPTABLE "OPEN TIME", SEE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

TYPICAL REPAIR DETAIL FOR HORIZONTAL, OVERHEAD AND/OR VERTICAL SPALLED CONCRETE SURFACES WITH POSSIBLE REPLACEMENT OF STEEL REINFORCEMENT

N.T.S.

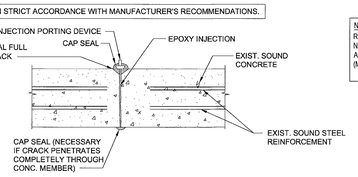
4 S101

1. DO NOT REPAIR ANY CRACK THAT IS LESS THAN 0.005 INCH AT ITS WIDEST POINT, U.O.N.
2. STANDARDS: ASTM C 881-02 "STANDARD SPECIFICATION FOR EPOXY-RESIN-BASED BONDING SYSTEMS FOR CONCRETE."

PROCEDURE:

1. THOROUGHLY CLEAN ALL DUST, DIRT, OIL, GREASE, CHEMICALS, WATER AND OTHER DELETERIOUS MATERIALS FROM AREA OF CRACK TO BE REPAIRED.
2. SCORE FULL LENGTH OF CRACK
3. SET APPROPRIATE INJECTION PORTS. SPACING OF PORTS SHALL EQUAL THICKNESS OF MEMBER BEING INJECTED OR AS OTHERWISE REQUIRED TO ENSURE PROPER INJECTION OF CRACK.
4. SEAL PORTS AND ENTIRE LENGTH OF CRACK (BOTH SIDES OF CRACK IF CRACK PENETRATES COMPLETELY THROUGH CONCRETE MEMBER) BY APPLYING PLANIBOND AE, HIGH - STRENGTH, EPOXY GEL, CONFORMING TO ASTM C 881 TYPES I, II, IV OR V, AND GRADE 3 CLASSES B AND C) BY MAPEI OR APPROVED SUBSTITUTE. APPLY NEATLY AND SMOOTHLY. FOR CONCRETE WHICH IS TO BE EXPOSED TO VIEW, EXTRA CARE MUST BE TAKEN TO KEEP PASTE IN CRACK ONLY (APPLY WITH NARROW-TIPPED, MANUALLY OPERATED CAULKING GUN OR OTHER APPROPRIATE MEANS TO KEEP PASTE OFF THE EXPOSED SURFACES).
5. ALLOW SEAL TO CURE IN ACCORDANCE WITH PRODUCT RECOMMENDATIONS (USUALLY AT LEAST 24 HOURS.)
6. INJECT PLANIBOND CR50 (LOW-VISCOSITY, HIGH-STRENGTH, EPOXY RESIN ADHESIVE CONFORMING TO ASTM C 881 TYPES I, II, IV OR V, AND GRADE 1 CLASSES B AND C) BY MAPEI OR APPROVED SUBSTITUTE, USING AUTOMATED INJECTION EQUIPMENT AND STEADY PRESSURE. FOR VERTICAL AND INCLINED CRACKS, COMMENCE INJECTION AT THE LOWEST END OF CRACK AND PROCEED UPWARD. COMPLETELY FILL CRACK WITH ADHESIVE. IF FLOW FROM PORT TO SUCCESSIVE PORTS CANNOT BE ACHEIVED, REPORT TO THE ENGINEER. TEN MINUTES AFTER INITIAL INJECTION HAS BEEN COMPLETED AT THE HIGHER ELEVATION PORT, REINJECT AT THAT PORT UNTIL NO ADDITIONAL ADHESIVE CAN BE INJECTED. FOR ALL TYPES OF CRACKS (VERTICAL, INCLINED & HORIZONTAL), REPEAT THE REINJECTION PROCEDURE UNTIL ALL PORTS REFUSE INJECTION ADHESIVE TEN MINUTES AFTER PREVIOUS INJECTION RESULTED IN THE PORT ACCEPTING ADHESIVE.
7. REMOVE INJECTION PORTS AND PATCH SURFACE. GRIND ANY EXCESS SEALANT, PASTE AND/OR EPOXY ADHESIVE SUCH THAT THE SURFACE IMMEDIATELY ADJACENT AND AROUND THE REPAIRED CRACK IS FLUSH AND SMOOTH. MATCH EXISTING SURFACE TEXTURE IN AREAS WHICH ARE EXPOSED TO VIEW.
8. CLEAN AND REMOVE ALL SPILLS AND LEAKS OF INJECTION ADHESIVE AND STAINS.

NOTE: USE ALL PRODUCTS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



NOTE: REMOVE EXISTING FINISHES AS NECESSARY TO PERFORM REPAIRS AND REPLACE FINISHES TO MATCH (MATERIAL, TEXTURES, COLOR, ETC.)

TYPICAL REPAIR DETAIL FOR EPOXY INJECTION FOR HORIZONTAL AND VERTICAL CONCRETE CRACK

N.T.S.

3 S101

COLUMN SCHEDULE

MARK	SIZE	REINFORCEMENT		REMARKS
		VERTICAL	TIES	
SC1	8" x 8"	2 #5	--	STARTER COL.
TC1	8" x 12"	4 #5	#3 @ 8"	TIE COLUMN DETAIL A
TC2	8" x 16" x 12" *	6 #5	(2)#3 @ 8"	* COORD. DIM. W/ ARCH. TIE COL. DETAIL B
TC3	8" x 18" *	6 #5	(2)#3 @ 8"	* COORD. DIM. W/ ARCH. TIE COL. DETAIL C
TC4	8" x 12" x 12"	3 #6	#3 @ 8"	TIE COLUMN DETAIL D
TC5	8" x 12" x 12"	3 #6	#3 @ 8"	TIE COLUMN DETAIL E
C1	12" x 12"	4 #6	#3 @ 12"	SEE 1 & 2 /S302

COLUMN NOTES:

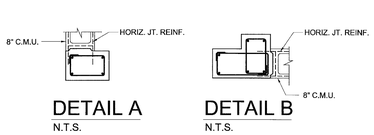
1. HOOKED DOWELS, SAME SIZE AND NUMBER AS VERTICAL REINFORCEMENT, SHALL BE EMBEDDED TO BOTTOM OF FOOTING BELOW AND SHALL LAP MINIMUM 34 BAR DIAMETERS WITH VERTICAL REINFORCEMENT IN COLUMNS.
2. HOOK ALL VERTICAL COLUMN REINFORCEMENT AT TOP, U.O.N.

BEAM SCHEDULE

MARK	SIZE (INCHES)	REINFORCEMENT			STIRRUPS	REMARKS
		TOP	INT.	BOTT.		
S-1	8 x 8	--	2#5	--	--	C.M.U. OPNG. SILL
CB-1	8 x 8	--	2#5	--	--	C.M.U. CAP BEAM
TB-1	8 x 12	2#5	--	2#5	#3 @ 12"	TIE BEAM
B-1	8 x 50 *	2#4	10#4	2#4	#4 @ 10"	* COORD. WITH EXIST. & WITH DOOR HEADS SEE 1&2/S302
B-2	8 x 50 *	2#4	10#4	2#4	#4 @ 10"	* COORD. WITH EXIST. & WITH WINDOW HEAD SEE 1/S302 & 2/S302 (SIM.)

BEAM NOTES:

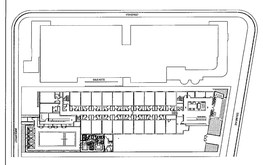
1. AT ALL BEAM CORNERS AND INTERSECTIONS, PROVIDE 2#5 L-SHAPED CORNER BARS WITH 30-INCH LONG LEGS AT TOP AND BOTTOM.
2. HOOK ALL TOP BARS AT ENDS.
3. ALL TOP AND BOTTOM BARS SHALL BE CONTINUOUS. WHERE NECESSARY, LAP SPLICE TOP BARS IN MIDDLE THIRD OF SPAN AND LAP SPLICE BOTTOM BARS AT SUPPORTS.
4. WHERE BEAMS BEGIN FROM EXISTING CONSTRUCTION, DRILL 6" INTO SIDE OF EXISTING CONCRETE AND SET 2#7 x 3'-0" DOWELS IN EPOXY ADHESIVE.



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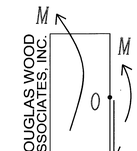
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KEYPLAN N.T.S.



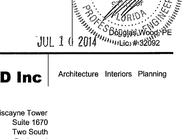
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NO.	DESCRIPTION	ISSUE DATE



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SCALE: AS SHOWN

SHEET TITLE

SCHEDULES, TYPICAL DETAILS, CONCRETE REPAIR DETAILS

SHEET NUMBER

S101

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REBAR DEVELOPMENT & LAP SPLICE LENGTH SCHEDULE FOR MASONRY (INCHES)

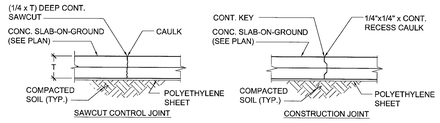
BLOCK SIZE	f 'm	REINFORCING BAR SIZE						
		#3	#4	#5	#6	#7	#8	#9
8"	1500 psi	18"	24"	30"	43"	60"	92"	116"

REBAR DEVELOPMENT & LAP SPLICE SCHEDULE FOR CONCRETE

fc'= 5000 PSI	#6 & SMALLER		#7 & LARGER	
	TOP BARS (2)	OTHER BARS	TOP BARS (2)	OTHER BARS
DEVELOPMENT LENGTH & CLASS "A" SPLICE LENGTH	45 db	34 db	55 db	43 db
CLASS "B" SPLICE LENGTH	58 db	45 db	72 db	55 db

NOTES:

1. "db" DENOTES BAR DIAMETER.
2. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12 IN. OF CONCRETE CAST IN THE MEMBER BELOW THE SPLICE.
3. ALL SPLICES SHALL BE CLASS "B" SPLICE U.O.N.
4. DEVELOPMENT AND LAP SPLICE LENGTHS SHOWN IN SCHEDULE ABOVE ARE BASED ON CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN db, CLEAR COVER NOT LESS THAN db, AND STIRRUPS OR TIES THROUGHOUT THE DEVELOPMENT OR SPLICE LENGTH NOT LESS THAN THE CODE MINIMUM, OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db. FOR OTHER CASES, INCREASE LENGTHS GIVEN IN SCHEDULE ABOVE BY 50%.



C.J. ON PLAN MAY BE CONTROL JOINT OR CONSTRUCTION JOINT

TYPICAL SLAB-ON-GROUND C.J. DETAIL

3/4" = 1'-0"

1 / S101

PROCEDURE:

1. REMOVE UNNECESSARY LOADS AND PROVIDE ADEQUATE TEMPO MEMBER WHICH IS TO BE REPAIRED. WHERE SHORING IS NOT P COMPLETE REPAIRS IN SECTIONS SMALL ENOUGH NOT TO REQ TIMES.
2. REMOVE LOOSE AND UNSOUND CONCRETE.
3. PREPARE CONCRETE SURFACE TO BE REPAIRED SUCH T ACCORDANCE WITH ICRI GUIDELINE 03720 AND HAVE M ENSURE A MINIMUM 3/8" THICKNESS.
4. CLEAN EXISTING CONCRETE SURFACES OF ALL DIR AND OPEN. USE BLASTING AND/OR VACUUMING ME FOREIGN MATERIALS WHICH MIGHT INHIBIT BOND.
5. MOISTEN CONCRETE SURFACES TO BE REPAIRED APPLICATION).
6. APPLY A SCRUB COAT * (FLUID PASTE) OF PA HORIZONTAL APPLICATIONS, OR SIKACRET FILLING ALL PORES & VOIDS.
7. WHILE SCRUB COAT IS STILL WET, AF OTHER APPROVED INTIMATE CONT
8. FOR APPLICATIONS WHERE "X" IS PREVIOUS LIFT TO PRODUCE A F REPEAT STEPS 4 AND 5 FOR F

NOTE: USE ALL PRODUCTS IN S

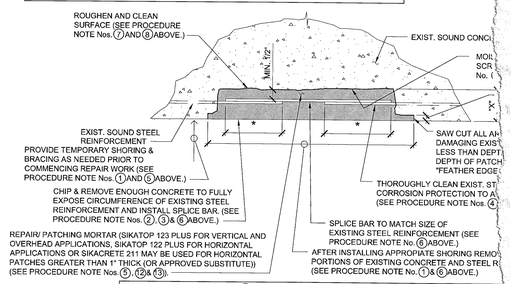
PROVIDE TEMPORARY SH BRACING AS NEEDED PR COMMENCING REPAIR W PROCEDURE NOTE No. CHIP AN SPALLE (SEE F

TY C H

PROCEDURE:

1. REMOVE UNNECESSARY LOADS AND PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING TO STRUCTURAL MEMB REPAIRED. WHERE SHORING IS NOT PRACTICAL OR POSSIBLE, REMOVE EXISTING DETERIORATED CONCRETE AND COM REQUIRE SHORING OR BRACING. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES.
2. REMOVE ALL LOOSE, DETERIORATED AND UNSOUND CONCRETE.
3. EXPOSE ENTIRE CIRCUMFERENCE OF EXISTING STEEL REINFORCEMENT.
4. CLEAN ALL LOOSE RUST FROM EXISTING STEEL REINFORCEMENT USING HIGH PRESSURE WATER OR ABRASIVE BLAST ONLY BE USED IF ENTIRE CIRCUMFERENCE OF REINFORCEMENT IS ACCESSIBLE) OR OTHER APPROPRIATE MEANS.
5. WHERE APPROX. 20% OR MORE OF MATERIAL LOSS HAS OCCURRED TO THE EXISTING STEEL REINFORCEMENT, ADEQ MEMBERS AND CONTINUE TO STEP 6, OTHERWISE SKIP TO STEP 7 BELOW.
6. CHIP JUST ENOUGH OF THE EXISTING CONCRETE TO EXPOSE THE ADEQUATE LENGTH REQUIRED TO INSTALL SPLICE I ADEQUATE CONCRETE COVERAGE. BARS MAY BE LAP SPLICED (MINIMUM 45 BAR DIAMETERS FOR 3/4" Ø BARS AND SM SPLICED (CONTACT ENGINEER FOR ADDITIONAL INSTRUCTIONS), OR WHERE ADEQUATE COVERAGE IS PROVIDED, BAR INFORMATION TO ENGINEER).
7. PREPARE CONCRETE SURFACE TO BE REPAIRED SUCH THAT THE SURFACE IS ROUGH (SURFACE PROFILE SHALL COMP 03720 AND HAVE MINIMUM PROJECTIONS OF 1/8"), FREE OF DELAMINATIONS & VOIDS, AND SQUARE ALL EDGES TO ENSU
8. CLEAN EXISTING CONCRETE SURFACES OF ALL DIRT, DUST AND OTHER DELETERIOUS MATERIALS SUCH THAT PORE ST AND/OR VACUUMING METHODS TO ENSURE PORE STRUCTURE IS PROPERLY PREPARED. INSPECT ALL SURFACES FOR
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12. WHILE SCRUB COAT AND CORROSION INHIBITING PRIMER ARE IS STILL WET, APPLY PATCHING MORTAR (USE SAME MATE OR OTHER APPROVED INTIMATE CONTACT TECHNIQUE.
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NOTE : USE ALL PRODUCTS IN STRICT ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS.



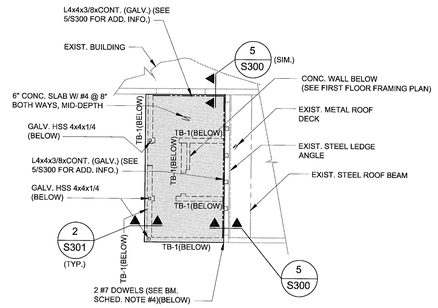
* SEE PROCEDURE NOTE No. 6 ABOVE FOR SPLICE LENGTH

** FOR OVERHEAD APPLICATIONS ONLY:
USE ARMATEC 110 EPOCEM (OR APPROVED SUBSTITUTE) AS A BONDING AGENT IN LIEU OF A SCRU AND APPLY BONDING AGENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION WHILE BONDING AGENT IS STILL WET OR WIN ACCEPTABLE "OPEN TIME", SEE MANUFACTURER'S WR

TYPICAL REPAIR DETAIL FOR HORIZONTAL, OVERHEA AND/OR VERTICAL SPALLED CONCRETE SURFACES WI POSSIBLE REPLACEMENT OF STEEL REINFORCEMENT

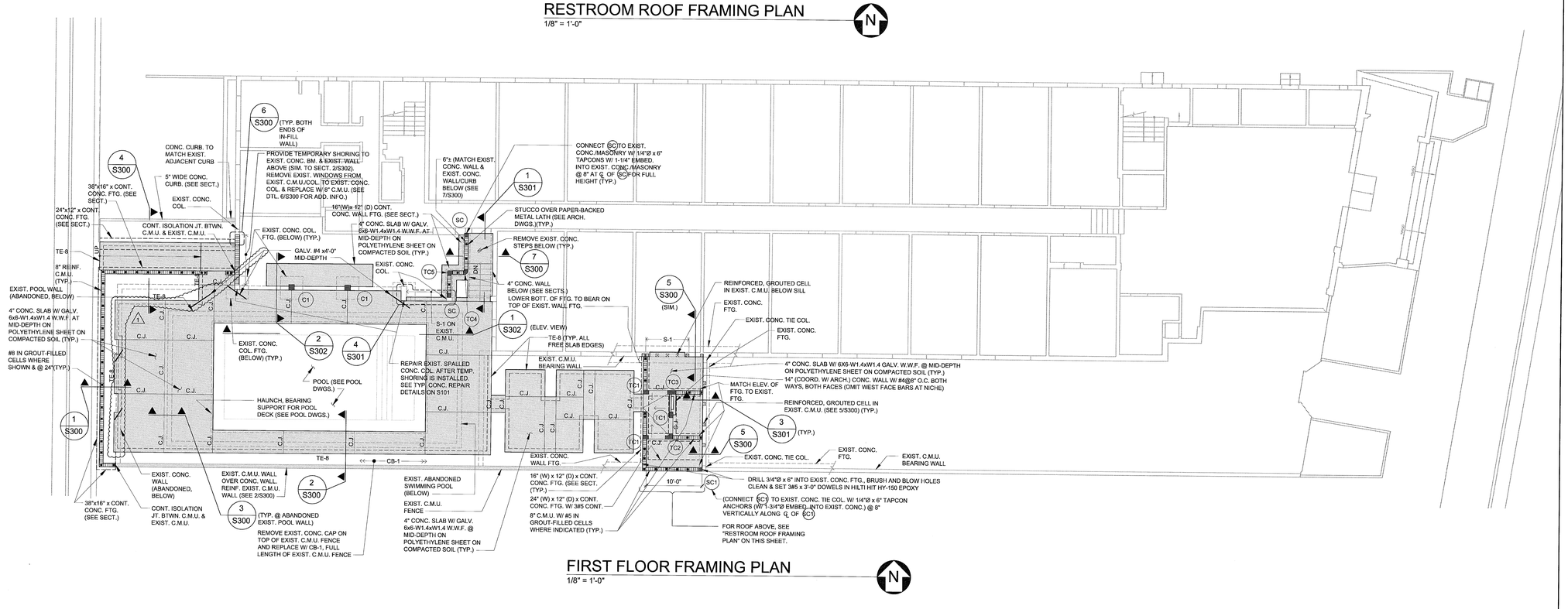
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S10



RESTROOM ROOF FRAMING PLAN

1/8" = 1'-0"



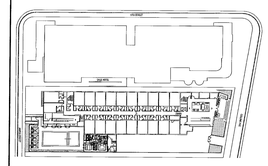
FIRST FLOOR FRAMING PLAN

1/8" = 1'-0"

SEE "GENERAL STRUCTURAL NOTES" ON S100.
SEE SCHEDULES AND TYPICAL DETAILS ON S101.
SHADING ON THIS SHEET DENOTES AREAS OF CONSTRUCTION.
TE-8 DENOTES: 8"x8" x CONT. THICKENED EDGE W/ 2#5 CONT. BOTT.
VERIFI EXISTING CONDITIONS PRIOR TO FABRICATION & CONSTRUCTION.
COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND WITH MANUFACTURED ITEMS PRIOR TO FABRICATION & CONSTRUCTION.

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1	REVISION	06.02.14

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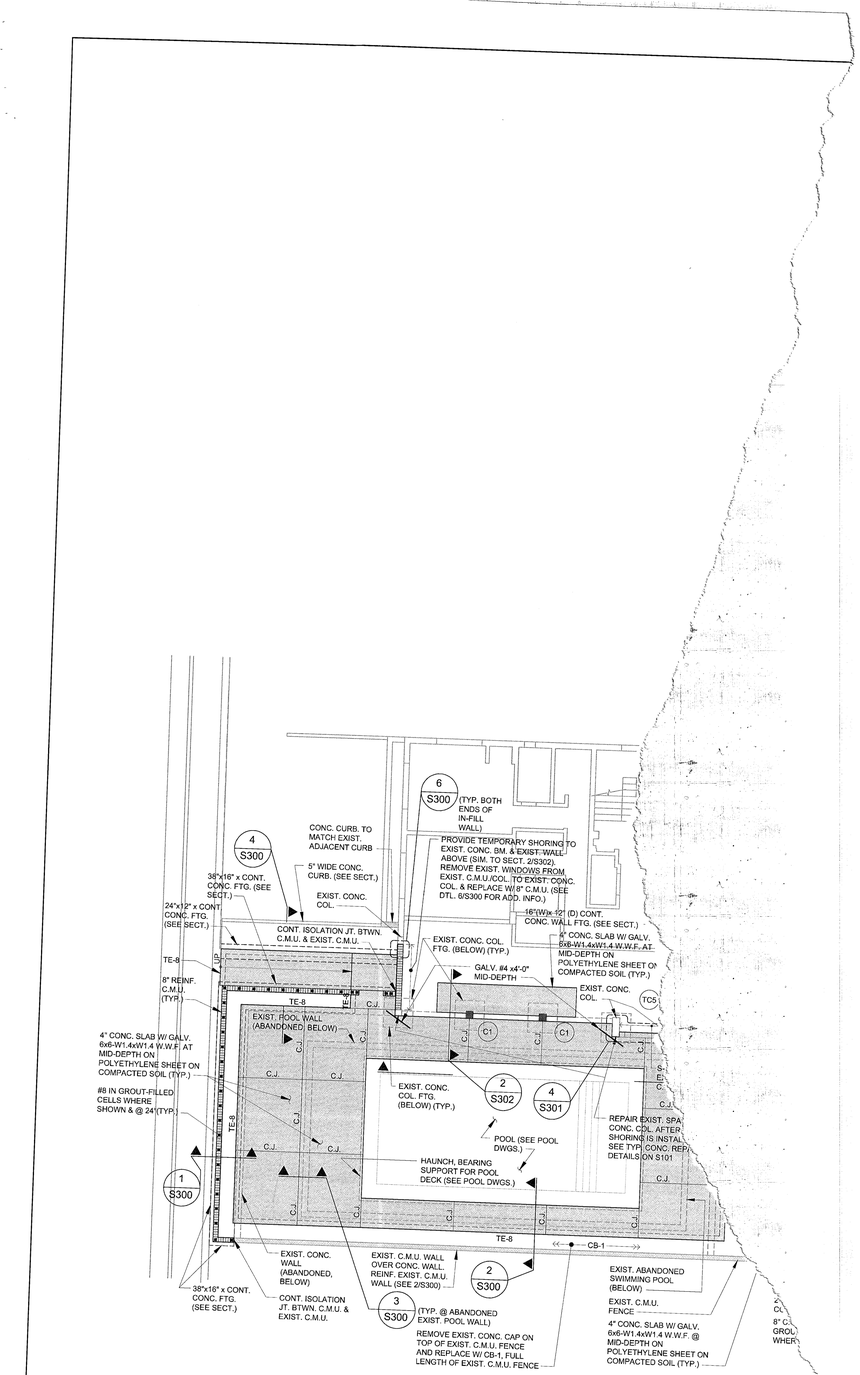
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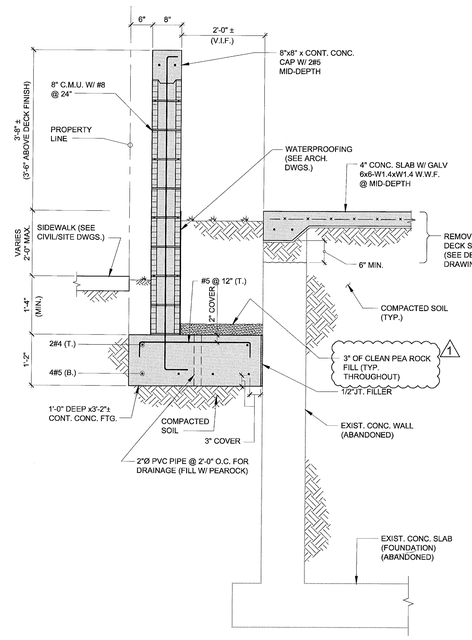
FIRST FLOOR FRAMING PLAN

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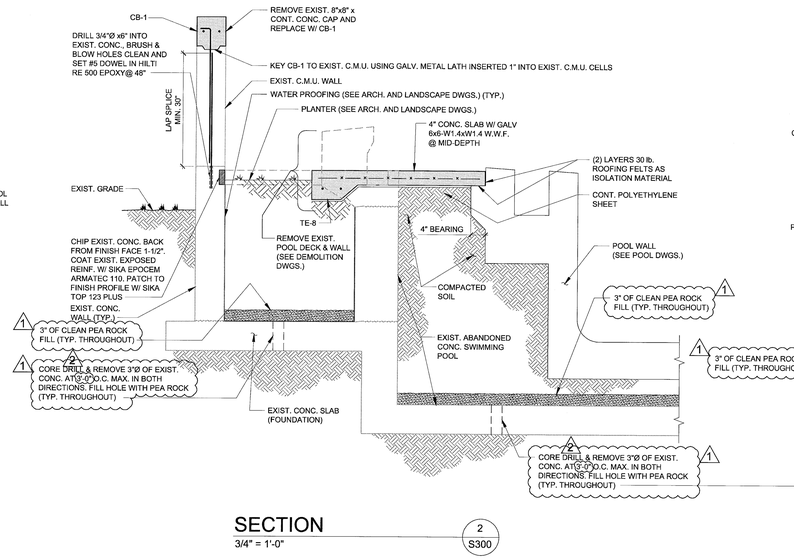
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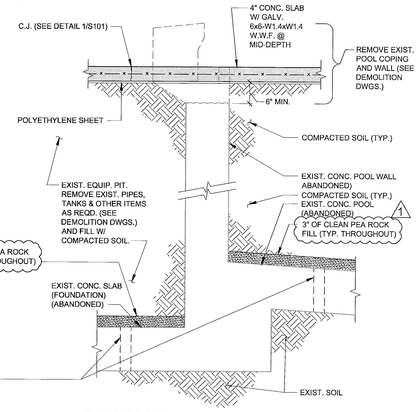

6
S300
(TYP. BOTH ENDS OF IN-FILL WALL)
4
S300
CONC. CURB, TO MATCH EXIST. ADJACENT CURB
5" WIDE CONC. CURB. (SEE SECT.)
PROVIDE TEMPORARY SHORING TO EXIST. CONC. BM. & EXIST. WALL ABOVE (SIM. TO SECT. 2/S302). REMOVE EXIST. WINDOWS FROM EXIST. C.M.U./COL. TO EXIST. CONC. COL. & REPLACE W/ 8" C.M.U. (SEE DTL. 6/S300 FOR ADD. INFO.)
38"x16" x CONT. CONC. FTG. (SEE SECT.)
EXIST. CONC. COL.
16"(W)x 12" (D) CONT. CONC. WALL FTG. (SEE SECT.)
24"x12" x CONT. CONC. FTG. (SEE SECT.)
CONT. ISOLATION JT. BTWN. C.M.U. & EXIST. C.M.U.
EXIST. CONC. COL. FTG. (BELOW) (TYP.)
4" CONC. SLAB W/ GALV. 6x6-W1.4xW1.4 W.W.F. AT MID-DEPTH ON POLYETHYLENE SHEET ON COMPACTED SOIL (TYP.)
TE-8
GALV. #4 x4'-0" MID-DEPTH
8" REINF. C.M.U. (TYP.)
EXIST. CONC. COL.
TCS
EXIST. POOL WALL (ABANDONED, BELOW)
C.J.
C1
4" CONC. SLAB W/ GALV. 6x6-W1.4xW1.4 W.W.F. AT MID-DEPTH ON POLYETHYLENE SHEET ON COMPACTED SOIL (TYP.)
#8 IN GROUT-FILLED CELLS WHERE SHOWN & @ 24"(TYP.)
EXIST. CONC. COL. FTG. (BELOW) (TYP.)
2
S302
4
S301
REPAIR EXIST. SPA CONC. COL. AFTER SHORING IS INSTAL SEE TYP. CONC. REP DETAILS ON S101
POOL (SEE POOL DWGS.)
HAUNCH, BEARING SUPPORT FOR POOL DECK (SEE POOL DWGS.)
1
S300
EXIST. CONC. WALL (ABANDONED, BELOW)
EXIST. C.M.U. WALL OVER CONC. WALL. REINF. EXIST. C.M.U. WALL (SEE 2/S300)
2
S300
EXIST. ABANDONED SWIMMING POOL (BELOW)
38"x16" x CONT. CONC. FTG. (SEE SECT.)
CONT. ISOLATION JT. BTWN. C.M.U. & EXIST. C.M.U.
3
S300
(TYP. @ ABANDONED EXIST. POOL WALL)
REMOVE EXIST. CONC. CAP ON TOP OF EXIST. C.M.U. FENCE AND REPLACE W/ CB-1, FULL LENGTH OF EXIST. C.M.U. FENCE
CB-1
EXIST. C.M.U. FENCE
4" CONC. SLAB W/ GALV. 6x6-W1.4xW1.4 W.W.F. @ MID-DEPTH ON POLYETHYLENE SHEET ON COMPACTED SOIL (TYP.)



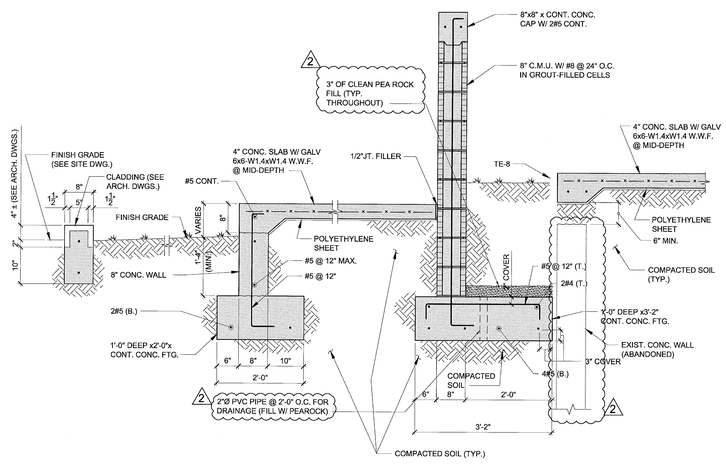
SECTION
3/4" = 1'-0" — 1 / S300



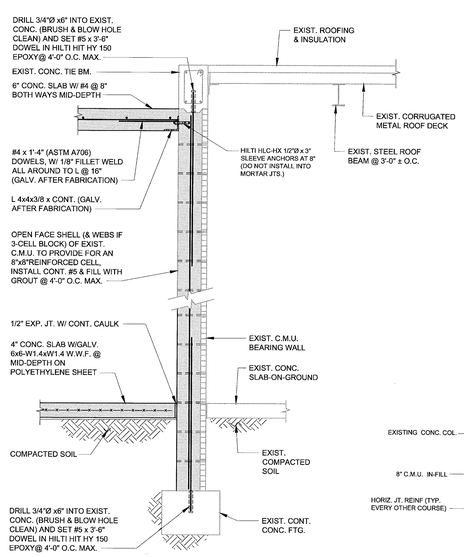
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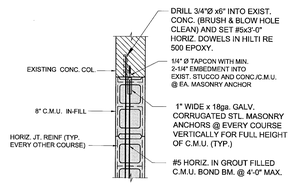
SECTION
3/4" = 1'-0" — 3 / S300



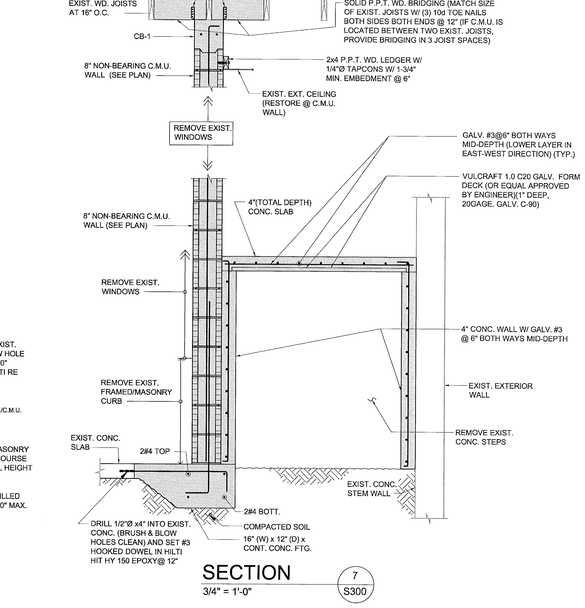
SECTION
3/4" = 1'-0" — 4 / S300



SECTION
3/4" = 1'-0" — 5 / S300



SECTION
3/4" = 1'-0" — 6 / S300

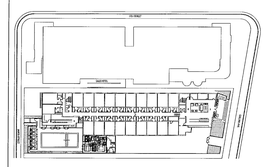


SECTION
3/4" = 1'-0" — 7 / S300

SEE "GENERAL STRUCTURAL NOTES" ON S100.
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KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE
1	REVISION	06.02.14
2	REVISION	07.07.14

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Boston Miami

JOB NUMBER: 13073
CHECKED BY: D.W.
ISSUE DATE: 4.21.2014
SCALE: AS SHOWN

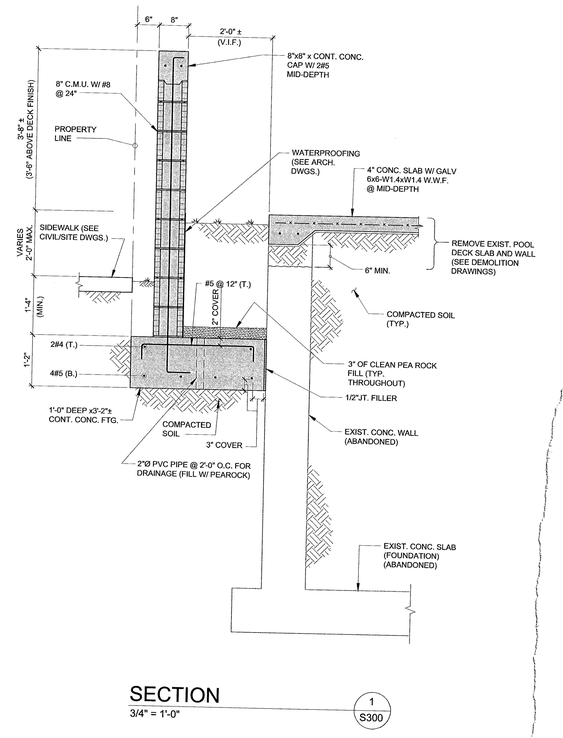
SHEET TITLE

SECTIONS AND DETAILS

SHEET NUMBER

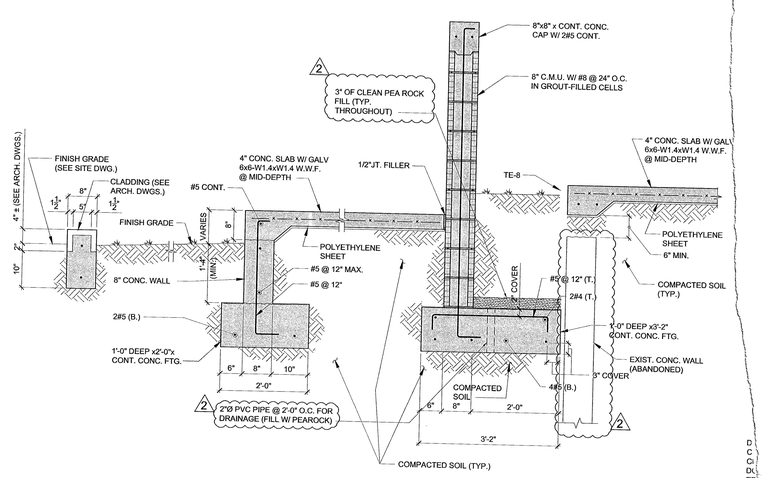
S300

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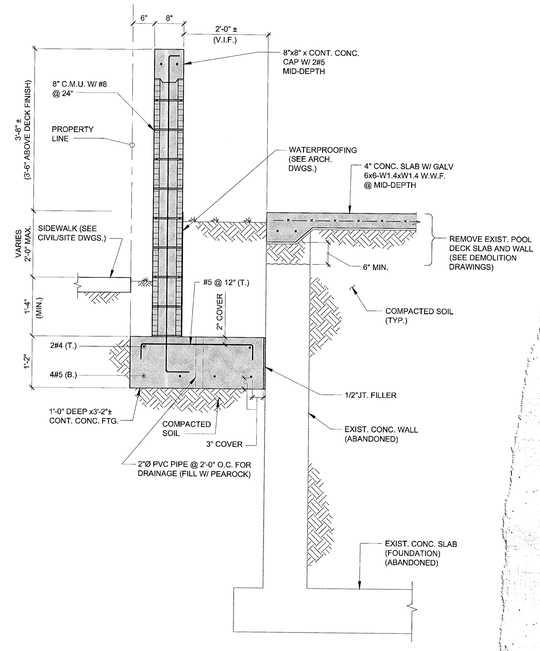
SECTION
3/4" = 1'-0"

1
S300

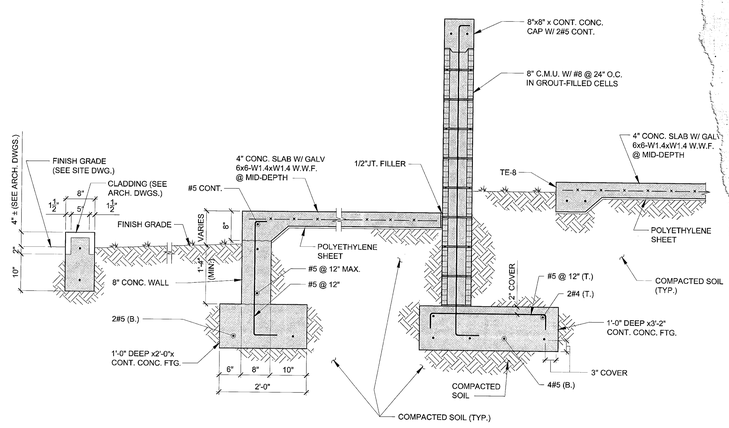


SECTION
3/4" = 1'-0"

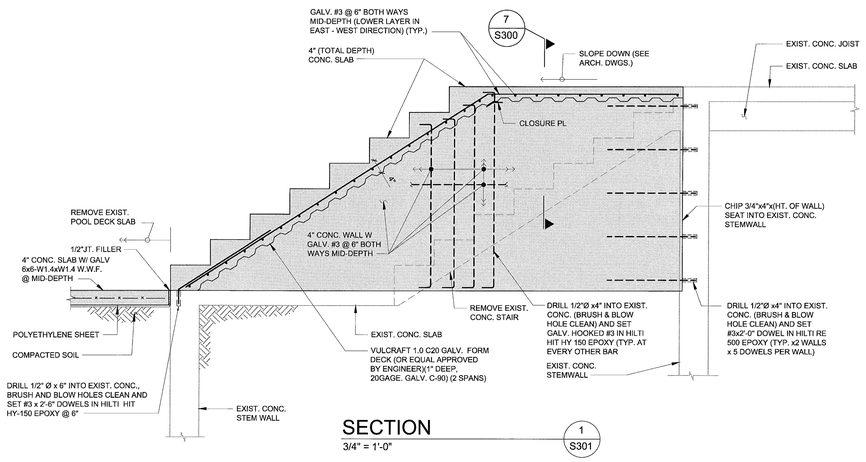
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S300



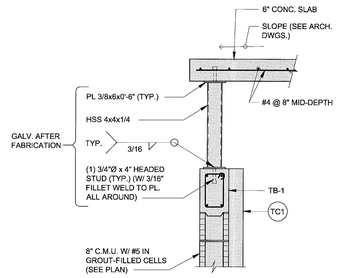
SECTION
3/4" = 1'-0"
1
S300



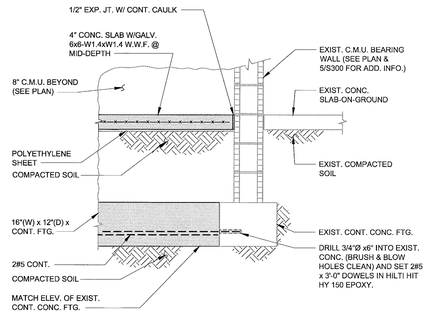
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3/4" = 1'-0"
4
S300



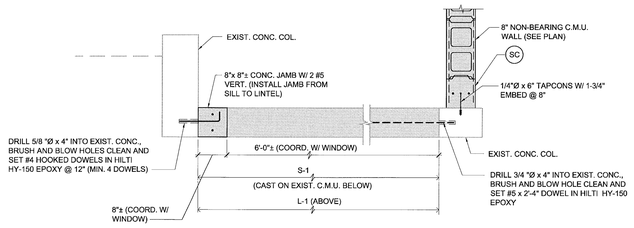
SECTION
3/4" = 1'-0"
1
S301



SECTION
3/4" = 1'-0"
2
S301



SECTION
3/4" = 1'-0"
3
S301

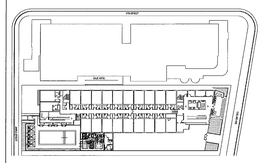


PLAN VIEW DETAIL
3/4" = 1'-0"
4
S301

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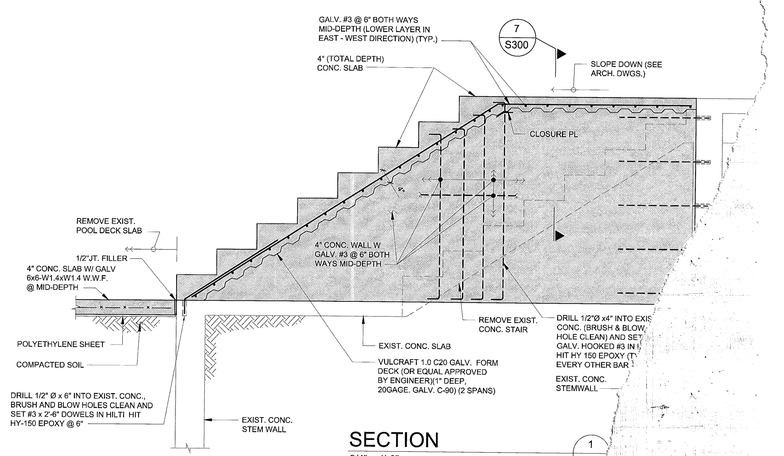
SHEET TITLE

SECTIONS AND DETAILS

SHEET NUMBER

S301

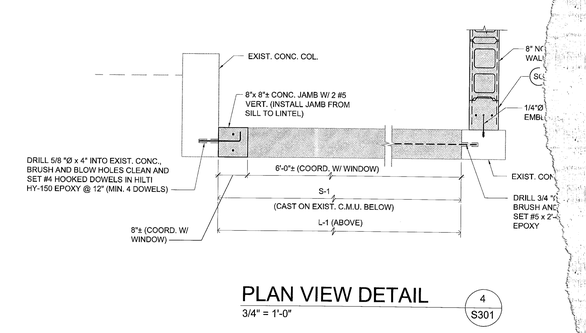
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SECTION

3/4" = 1'-0"

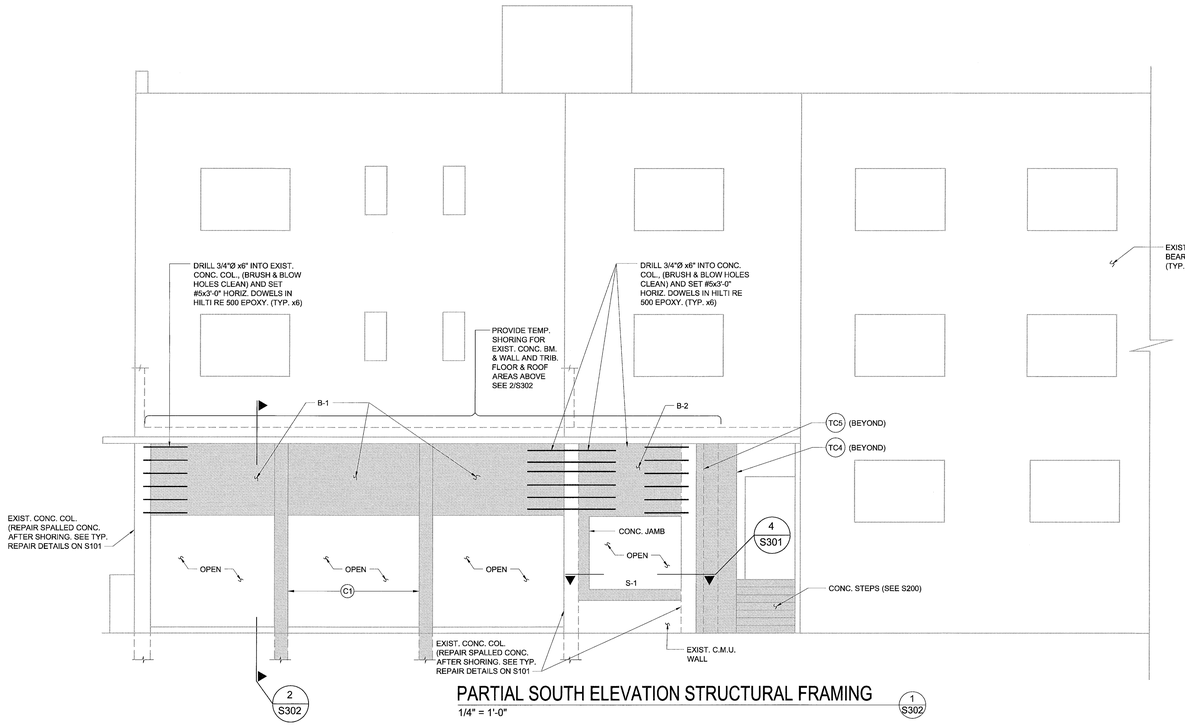
1 S301



PLAN VIEW DETAIL

3/4" = 1'-0"

4 S301



PARTIAL SOUTH ELEVATION STRUCTURAL FRAMING

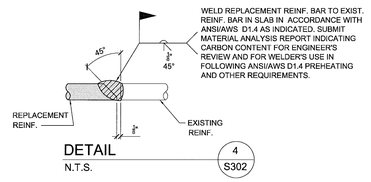
1/4" = 1'-0"

1 S302

SECTION

1-1/2" = 1'-0"

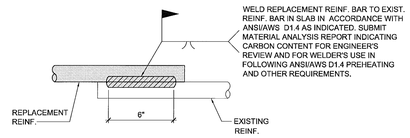
3 S302



DETAIL

N.T.S.

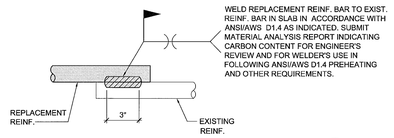
4 S302



WELD LAP SPLICE DETAIL - ONE SIDE

N.T.S.

5A S302

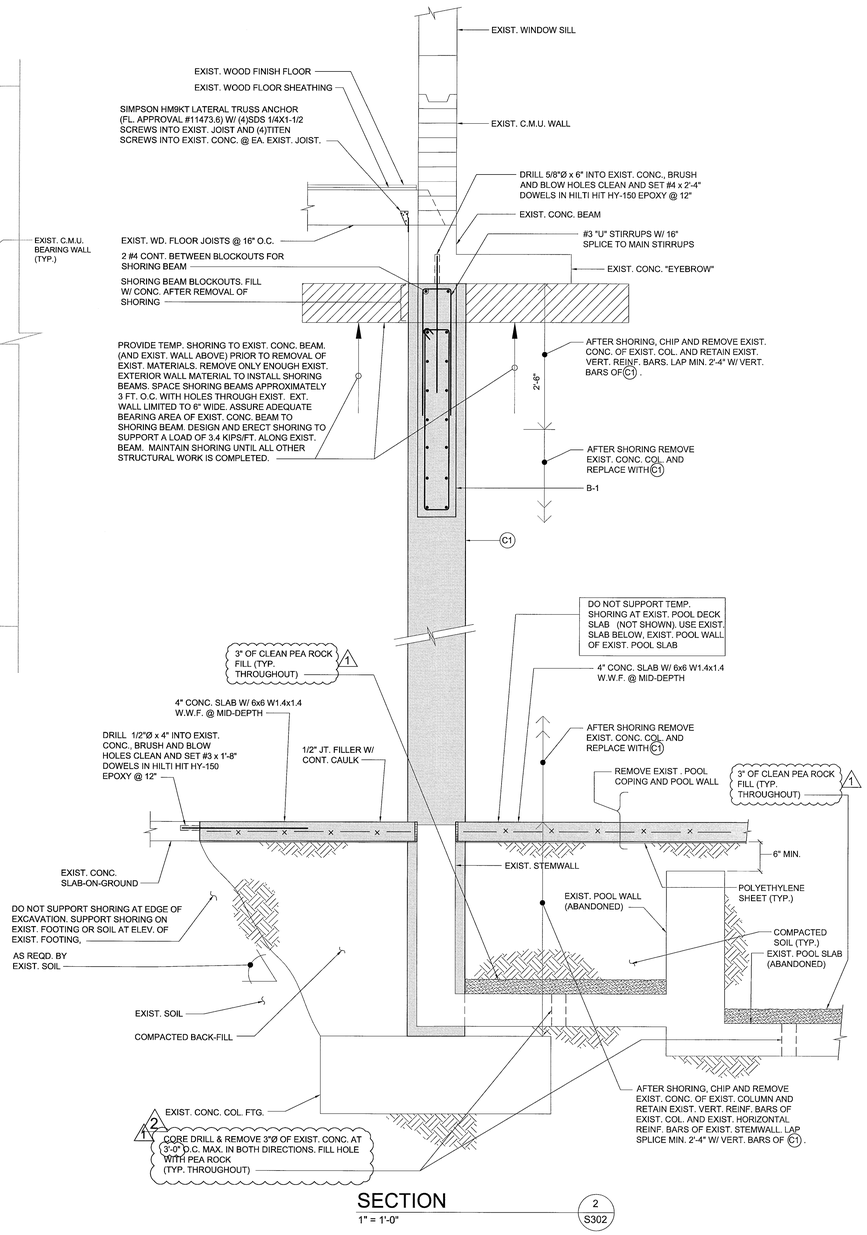


WELD LAP SPLICE DETAIL - BOTH SIDES

N.T.S.

5B S302

TYPICAL DETAILS FOR SLAB RESTORATION AT UTILITY TRENCHES IN HOTEL LOBBY AREA.



SECTION

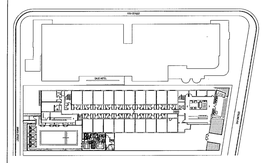
1" = 1'-0"

2 S302

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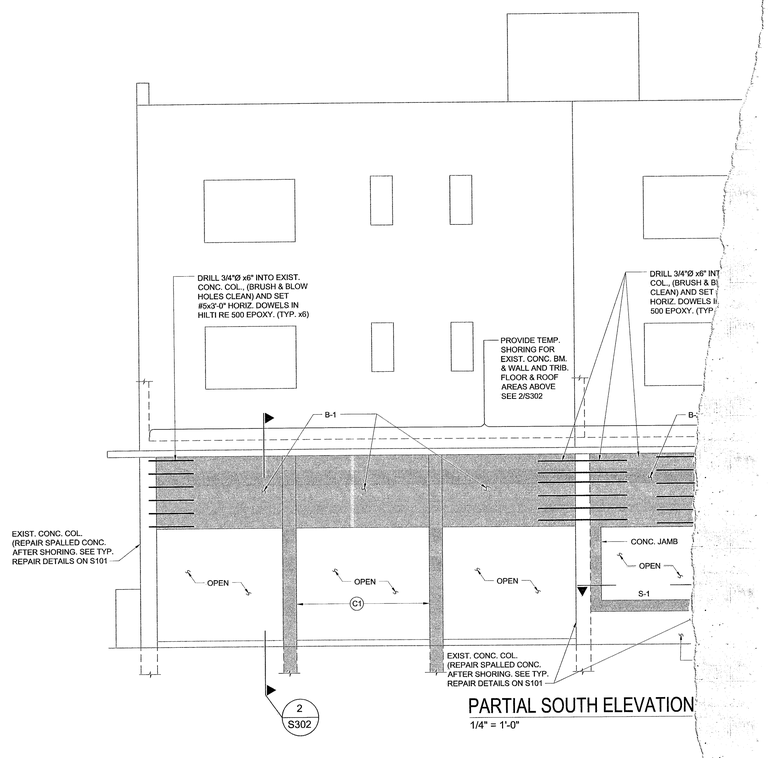
SHEET TITLE

SECTIONS AND DETAILS

SHEET NUMBER

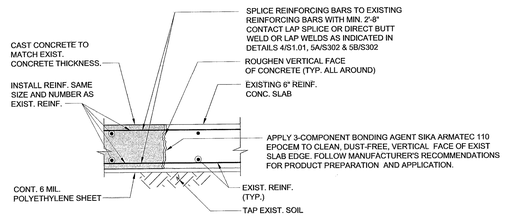
S302

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PARTIAL SOUTH ELEVATION

1/4" = 1'-0"



SECTION

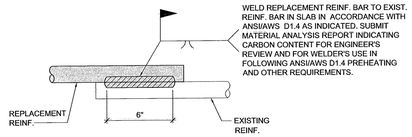
1-1/2" = 1'-0"

3
S302



DETAIl

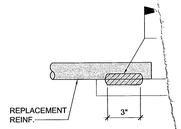
N.T.S.



WELD LAP SPLICE DETAIL - ONE SIDE

N.T.S.

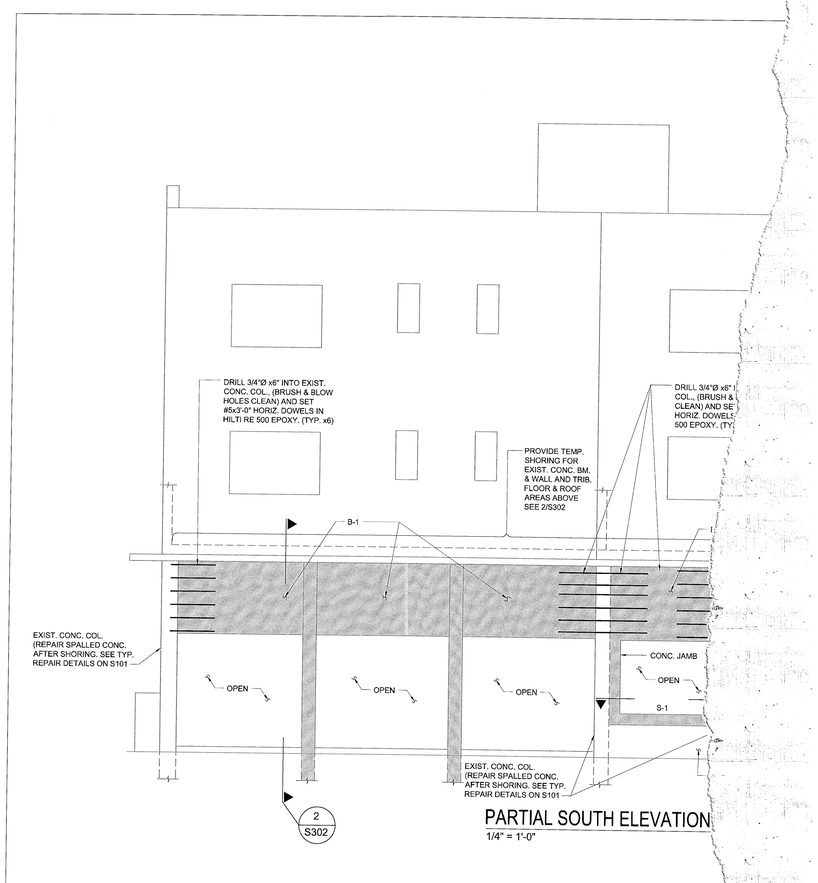
5A
S302



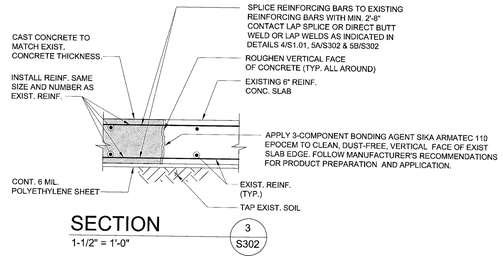
WELD LAP SPLICE DET.

N.T.S.

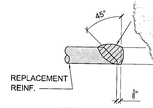
TYPICAL DETAILS FOR SLAB RESTORATION AT UTILITY TRENCHES IN HOTEL LOBBY AREA.



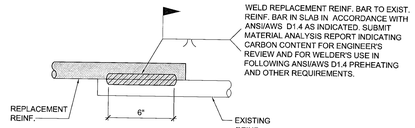
PARTIAL SOUTH ELEVATION
1/4" = 1'-0"



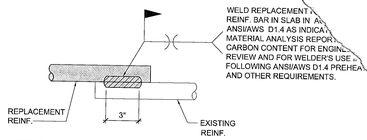
SECTION
1-1/2" = 1'-0"
3
S302



DETAIL
N.T.S.

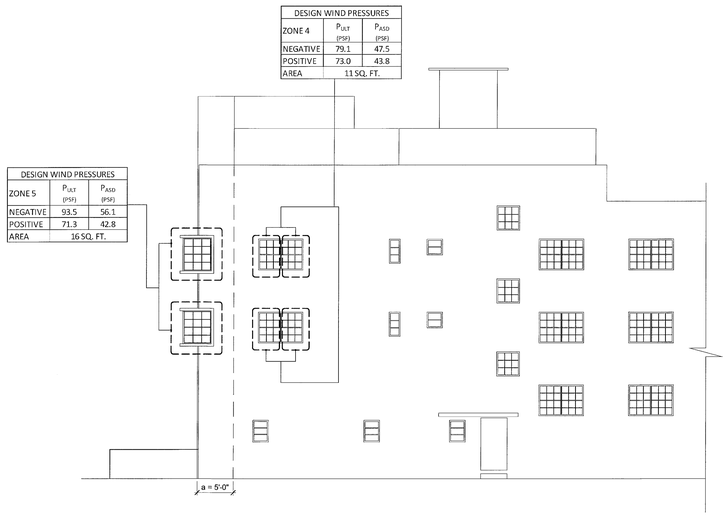


WELD LAP SPLICE DETAIL - ONE SIDE
N.T.S.
5A
S302



WELD LAP SPLICE DETAIL - BOTH SIDES
N.T.S.
5B
S302

TYPICAL DETAILS FOR SLAB RESTORATION AT UTILITY TRENCHES IN HOTEL LOBBY AREA.

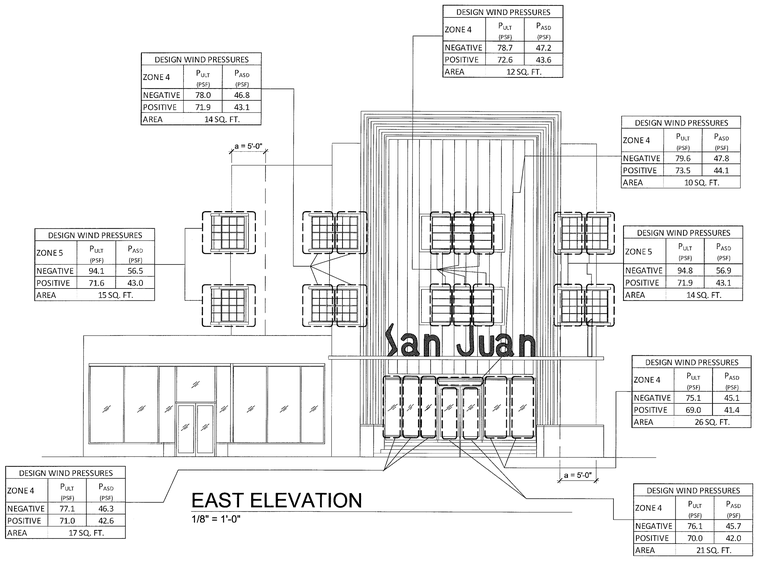


DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	79.1	47.5
POSITIVE	73.0	43.8
AREA	11 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 5	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	93.5	56.1
POSITIVE	71.3	42.8
AREA	16 SQ. FT.	

PARTIAL NORTH ELEVATION

1/8" = 1'-0"



DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	78.7	47.2
POSITIVE	72.6	43.6
AREA	12 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	78.0	46.8
POSITIVE	71.9	43.1
AREA	14 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	79.6	47.8
POSITIVE	73.5	44.1
AREA	10 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 5	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	94.1	56.5
POSITIVE	71.6	43.0
AREA	15 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 5	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	94.8	56.9
POSITIVE	71.9	43.1
AREA	14 SQ. FT.	

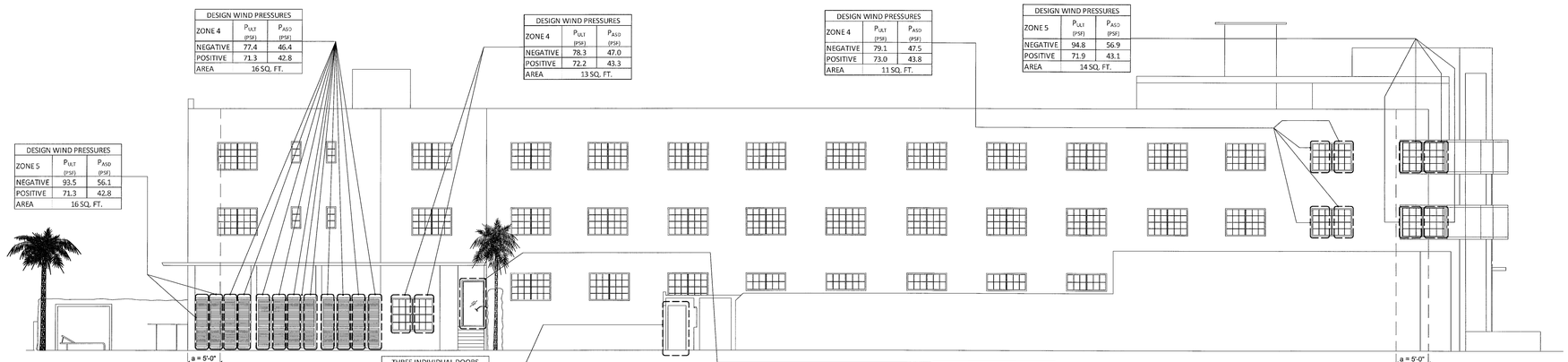
DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	75.1	45.1
POSITIVE	69.0	41.4
AREA	26 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	77.1	46.3
POSITIVE	71.0	42.6
AREA	17 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	76.1	45.7
POSITIVE	70.0	42.0
AREA	21 SQ. FT.	

EAST ELEVATION

1/8" = 1'-0"



DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	77.4	46.4
POSITIVE	71.3	42.8
AREA	16 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	78.3	47.0
POSITIVE	72.2	43.3
AREA	13 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	79.1	47.5
POSITIVE	73.0	43.8
AREA	11 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 5	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	94.8	56.9
POSITIVE	71.9	43.1
AREA	14 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 5	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	93.5	56.1
POSITIVE	71.3	42.8
AREA	16 SQ. FT.	

THREE INDIVIDUAL DOORS (SEE ARCH. PLANS) DESIGN WIND PRESSURES		
ZONE 5	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	91.0	54.6
POSITIVE	70.0	42.0
AREA	21 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	76.1	45.7
POSITIVE	70.0	42.0
AREA	21 SQ. FT.	

SOUTH ELEVATION

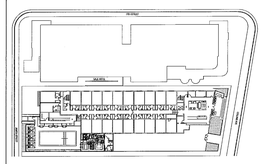
1/8" = 1'-0"

EXTERIOR WINDOWS AND DOOR NOTES:

1. IN ACCORDANCE WITH ASCE 7-10 COMPONENTS AND CLADDING [RISK CATEGORY II, 175 MPH ULTIMATE DESIGN WIND SPEED; DIRECTIONALITY FACTOR K_d= 0.85; EXPOSURE C; INTERNAL PRESSURE COEFFICIENTS ± 0.18]
2. DESIGN WIND PRESSURES (PERPENDICULAR TO SURFACE) FOR ALL EXTERIOR WINDOWS AND DOORS ARE INDICATED IN EACH WINDOW/DOOR.
3. NEGATIVE VALUES REPRESENT WIND PRESSURES AWAY FROM SURFACE AND POSITIVE VALUES REPRESENT WIND PRESSURES TOWARDS SURFACE.
4. BOTH ULTIMATE PRESSURES AND ALLOWABLE PRESSURES (0.6 x P_{ULT}) ARE INDICATED ON THIS DRAWING.
5. END WALL ZONE 5 WIDTH a = 5'-0".

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MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE

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NORTH



JUL 10 2014

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ISSUE DATE: 4.21.2014

SCALE: AS SHOWN

SHEET TITLE

EXTERIOR WINDOWS AND DOORS DESIGN WIND PRESSURES

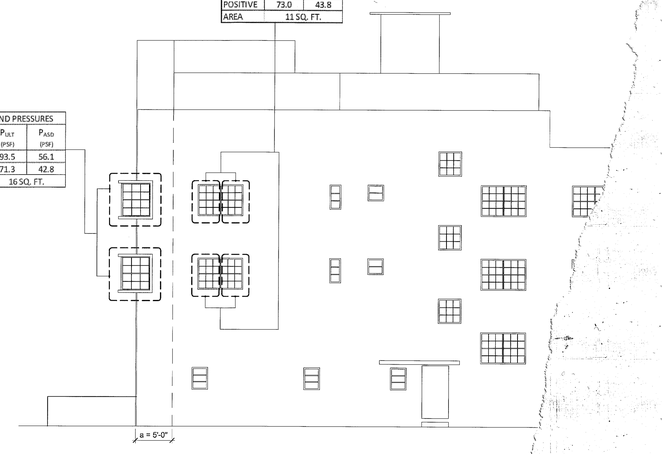
SHEET NUMBER

S400

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DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	79.1	47.5
POSITIVE	73.0	43.8
AREA	11 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 5	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	93.5	56.1
POSITIVE	71.3	42.8
AREA	16 SQ. FT.	

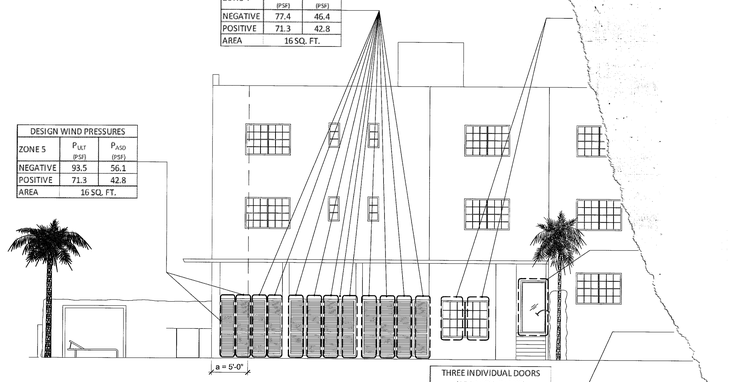


PARTIAL NORTH ELEVATION

1/8" = 1'-0"

DESIGN WIND PRESSURES		
ZONE 4	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	77.4	46.4
POSITIVE	71.3	42.8
AREA	16 SQ. FT.	

DESIGN WIND PRESSURES		
ZONE 5	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	93.5	56.1
POSITIVE	71.3	42.8
AREA	16 SQ. FT.	



THREE INDIVIDUAL DOORS (SEE ARCH. PLANS) DESIGN WIND PRESSURES		
ZONE 5	P_{ULT} (PSF)	P_{ASD} (PSF)
NEGATIVE	91.0	54.6
POSITIVE	70.0	42.0
AREA	21 SQ. FT.	

SOUTH

1/8" = 1'-0"

GENERAL STRUCTURAL NOTES (EAST FACADE CONCRETE REPAIRS)

1. CODES:
   ALL WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2010 EDITION AND ALL OTHER APPLICABLE LOCAL CODES.
2. BUILDING PERMIT:
   A. OBTAIN BUILDING PERMIT.
   B. COMPLY WITH THE REQUIREMENTS OF THE BUILDING PERMIT AND WITH OTHER REQUIREMENTS OF THE PERMITTING AUTHORITY.
   C. IF CHANGES TO STRUCTURAL DESIGN ARE ISSUED BY THE ENGINEER, SUBMIT CHANGES TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL. MAINTAIN PERMIT APPROVALS CONCURRENT WITH CONSTRUCTION.
3. CONSTRUCTION DOCUMENTS:
   A. EXAMINE AND STUDY ALL CONSTRUCTION DOCUMENTS PRIOR TO COMMENCEMENT OF WORK. DIRECT ANY QUESTIONS TO THE ENGINEER.
4. COORDINATION AND DIMENSIONS:
   A. COORDINATE ALL DIMENSIONS AND ELEVATIONS BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. VERIFY ALL DIMENSIONS AND CONDITIONS RELATED TO EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION. BRING ANY DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ENGINEER. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE. SCALE IS FOR GUIDELINE PURPOSES ONLY. IF DIMENSIONS ARE UNCLEAR, DO NOT SCALE. REQUEST CLARIFICATION FROM THE ENGINEER.
   B. COORDINATE THE STRUCTURAL WORK WITH THE WORK OF ALL OTHER TRADES.
   C. COORDINATE ALL DIMENSIONS RELATIVE TO WINDOWS.

5. CONFLICTS IN DOCUMENTS:
   IF CONFLICTS OCCUR BETWEEN DOCUMENTS AND FIELD CONDITIONS OR OTHERWISE, IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND DIRECTION BEFORE PROCEEDING.
6. METHODS & SAFETY:
   THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION. PROVIDE APPROPRIATE SUPERVISION THROUGHOUT THE PROJECT. CONSTRUCTION SITE SAFETY, INCLUDING ALL ADEQUATE TEMPORARY BRACING AND SHORING, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY THE NECESSARY PROFESSIONAL SERVICES TO DETERMINE THE NECESSARY METHODS AND SUPPORTS REGARDING FORMING AND CONSTRUCTION LOADS. TEMPORARY BRACING AND SHORING SHALL BE DESIGNED TO RESIST ALL CONSTRUCTION LOADS INCLUDING THE WEIGHTS OF ALL SUPPORTED MATERIALS PLUS A LIVE LOAD OF 50 PSF ON HORIZONTAL SURFACES. MAINTAIN TEMPORARY BRACING AND RETAIN IN PLACE UNTIL PERMANENT STRUCTURAL SYSTEMS ARE CAPABLE OF RESISTING ALL CONSTRUCTION PHASE LOADS.
7. PROTECTION:
   A. EXISTING CONSTRUCTION - DO NOT DAMAGE EXISTING CONSTRUCTION WHICH IS TO REMAIN. LOCATE AND PROTECT CONCEALED PIPES, CONDUITS AND OTHER EXISTING CONSTRUCTION PRIOR TO DEMOLITION AND TAKE APPROPRIATE ACTION TO PROTECT THEM AND TO PROVIDE FOR SAFETY.

8. CONSTRUCTION INSPECTIONS:
   NOTIFY THE BUILDING INSPECTOR FOR INSPECTION OF ALL STRUCTURAL WORK. VERIFY THAT EACH AND EVERY STRUCTURAL ITEM HAS BEEN ACCEPTED BY THE INSPECTOR PRIOR TO PROCEEDING WITH SUBSEQUENT WORK AND/OR CONCEALING ANY STRUCTURAL ITEM. ANY STRUCTURAL ITEM WHICH HAS NOT BEEN SPECIFICALLY ACCEPTED BY THE INSPECTOR AND/OR ANY CONCEALING CONSTRUCTION WILL BE SUBJECT TO REMOVAL AND RECONSTRUCTION.
9. SPECIAL INSPECTION:
   THE MUNICIPAL BUILDING OFFICIAL MAY REQUIRE SPECIAL INSPECTION FOR ALL STRUCTURAL CONCRETE REPAIRS. COMMUNICATE AND COORDINATE W/ SPECIAL INSPECTOR PRIOR TO COMMENCING WORK TO UNDERSTAND AND MEET ALL SPECIAL INSPECTION REQUIREMENTS. NOTIFY SPECIAL INSPECTOR FOR INSPECTION OF ALL COMPONENTS OF THESE REPAIRS PRIOR TO THEIR CONCEALMENT BY OTHER CONSTRUCTION. DO NOT CONCEAL ANY COMPONENT OF THESE REPAIRS UNTIL ACCEPTED BY SPECIAL INSPECTOR AND UNTIL SO INDICATED ON THE SPECIAL INSPECTION LOG. THE SPECIAL INSPECTION LOG WILL BE PREPARED BY SPECIAL INSPECTOR AND GIVEN TO CONTRACTOR FOR KEEPING ON SITE. KEEP THE SPECIAL INSPECTION LOG IN A CLEAN DRY AREA AT THE SITE AND MAKE IT AVAILABLE TO THE SPECIAL INSPECTOR AND TO THE MUNICIPAL BUILDING INSPECTOR UPON REQUEST. THE SPECIAL INSPECTOR WILL MAKE ENTRIES ON THE LOG FOR EACH SITE VISIT AND WILL INDICATE ACCEPTANCE OR REJECTION OF THE ITEMS OBSERVED. ACCEPTANCE APPLIES ONLY TO THOSE SPECIFIC ITEMS SO INDICATED. NO OTHER ITEMS OR AREAS ARE TO BE ASSUMED TO BE ACCEPTED. ANY COMPONENTS OF THE STRUCTURAL SYSTEMS WHICH HAVE BEEN CONCEALED WITHOUT SPECIFIC ACCEPTANCE BY THE SPECIAL INSPECTOR WILL BE REJECTED, AND ANY CONCEALING CONSTRUCTION MUST BE REMOVED. UPON ACCEPTANCE OF ALL COMPONENTS OF ALL SYSTEMS, RETURN SPECIAL INSPECTION LOG TO THE SPECIAL INSPECTOR.
10. CONCRETE (CAST-IN-PLACE):
    A. STANDARDS: ACI 318, ACI 301, ACI 347, ACI 207 AND ACI 117.
    B. CONCRETE MIXES
       1. SUBMIT CONCRETE MIX DESIGNS TO ENGINEER FOR REVIEW PRIOR TO USE.
       2. PROPORTION ALL NORMAL-WEIGHT CONCRETE IN ACCORDANCE WITH ACI 301 TO ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
       3. SLUMP SHALL BE 4" (±1") FOR REGULAR MIXES AND NOT GREATER THAN 9" FOR MIXES WITH WATER-REDUCING ADMIXTURES. ADD NO WATER TO THE CONCRETE AT THE SITE, UNLESS OTHERWISE APPROVED BY THE ENGINEER IN ADVANCE AND ONLY IF TEST SAMPLES ARE TAKEN AFTER ADDITION OF THE APPROVED WATER.
       4. CEMENTITIOUS MATERIALS:
          a. CEMENT: ASTM C150, TYPE I, UNLESS OTHERWISE NOTED.
          b. FLY ASH: ASTM C618, CLASS F.
          c. GROUND GRANULATED BLAST-FURNACE SLAG: ASTM C989 GRADE 100 OR 120
          d. LIMIT PERCENTAGE OF FLY ASH, SLAG OR COMBINATION FLY ASH AND SLAG TO 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIALS, UNLESS OTHERWISE NOTED.
       5. CONCRETE SHALL HAVE 3 PERCENT TO 5 PERCENT ENTRAINED AIR.
       6. MAXIMUM WATER: CEMENT RATIO FOR ALL CONCRETE SHALL BE 0.50 (UNLESS OTHERWISE NOTED).
       7. LARGE-AGGREGATE PUMP MIXES WITH WATER-REDUCING ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. PEA ROCK PUMP MIXES WILL NOT BE APPROVED.
       8. COARSE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-33.
       9. WATER SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-1602.
       10. READY-MIX CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-94
    C. CONTRACT AN INDEPENDENT TESTING LABORATORY TO PERFORM THE CONCRETE CYLINDER SAMPLING AND TESTING AS REQUIRED BY SECTION 1923.2 OF THE FLORIDA BUILDING CODE, 2010. SUBMIT TEST REPORTS TO THE ENGINEER.
    D. PROVIDE ALL FORMING AND TEMPORARY SHORING.
    E. DO NOT EMBED PIPES OR CONDUITS IN THE CONCRETE WITHOUT THE WRITTEN APPROVAL FROM THE ENGINEER.
    F. REINFORCEMENT:
       1. STANDARD: ASTM A-615, GRADE 60, ASTM A185 FOR WELDED WIRE FABRIC. COAT ALL REINFORCEMENT WITH "BONDING AGENT" SEE "CONCRETE REPAIR PRODUCT SCHEDULE" ON SR102.
    G. CONCRETE COVER OVER REINFORCEMENT: UNLESS OTHERWISE INDICATED IN THESE DRAWINGS, PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS:
       1. 3 INCHES WHERE CAST AGAINST EARTH
       2. 2 INCHES FOR NO. 6 AND LARGER AND 1 - 1/2 INCHES FOR NO. 5 AND SMALLER DIAMETER BARS WHERE CAST IN FORMS OR ON POLYETHYLENE SHEET AND PERMANENTLY EXPOSED TO WEATHER OR EARTH
       3. 1-1/2 INCHES FOR INTERIOR COLUMNS AND BEAMS
       4. 3/4-INCH FOR INTERIOR WALLS, SLABS, JOISTS AND STAIRS.
    H. REINFORCEMENT PLACEMENT TOLERANCES: THE TOLERANCES FOR PLACING REINFORCING BARS SHALL BE AS FOLLOWS:
       1. MEMBERS WITH EFFECTIVE DEPTH LESS THAN 8":
          a. TOLERANCE ON EFFECTIVE DEPTH = +/- 3/8"
          b. TOLERANCE ON CONCRETE COVER = - 3/8"
       2. MEMBERS WITH EFFECTIVE DEPTH GREATER THAN 8":
          a. TOLERANCE ON EFFECTIVE DEPTH = +/- 1/2"
          b. TOLERANCE ON CONCRETE COVER = - 1/2" THE EFFECTIVE DEPTH OF A MEMBER IS DEFINED AS THE OVERALL DEPTH LESS THE APPROPRIATE CONCRETE COVER FOR EACH MEMBER AS DEFINED ABOVE, STIRRUP OR TIE DIAMETER, AND MINUS THE DISTANCE TO THE CENTER OF THE REINFORCING BARS. THE EFFECTIVE DEPTH OF MEMBERS INDICATED TO BE REINFORCED AT MID-DEPTH SHALL BE ONE HALF THE OVERALL MEMBER THICKNESS. THE TOLERANCE FOR LONGITUDINAL LOCATIONS OF BENDS AND ENDS OF REINFORCEMENT SHALL BE ± 2", EXCEPT THE TOLERANCE SHALL BE ± 1/2" AT THE DISCONTINUOUS ENDS OF BRACKETS AND CORBELS, AND ± 1" AT THE DISCONTINUOUS ENDS OF OTHER MEMBERS.
    I. TOLERANCES
       1. MEMBER DIMENSION TOLERANCES
          a. MEMBER OVERALL DIMENSION LESS THAN OR EQUAL TO 12" : +3/8", -1/4"
          b. MEMBER OVERALL DIMENSION GREATER THAN 12" AND LESS THAN 36" : +1/2", -3/8"
          c. MEMBER OVERALL DIMENSION GREATER THAN 36" : +1", -3/4"
       2. VARIATIONS FROM PLUMB:
          a. FOR COLUMNS, PIERS AND WALLS: IN ANY TEN FOOT LENGTH: 1/4" MAXIMUM FOR ENTIRE LENGTH: 1"
          b. FOR EXPOSED CORNER COLUMNS, CONTROL JOINTS, GROOVE AND OTHER LINES: IN ANY TEN FOOT LENGTH: 1/4" MAXIMUM FOR ENTIRE LENGTH: 1/2"
       3. VARIATIONS FROM LEVEL OR FROM INDICATED GRADES
          a. SLABS AND BEAMS IN ANY TEN FOOT LENGTH: 1/4" IN ANY BAY OR IN ANY 20 FOOT LENGTH: 3/8" MAXIMUM FOR ENTIRE LENGTH: 1/4"
          b. FOR EXPOSED LINTELS, SILLS, PARAPETS, HORIZONTAL GROOVES AND OTHER LINES: IN ANY BAY OR IN ANY 20 FOOT LENGTH: 1/4" MAXIMUM FOR ENTIRE LENGTH: 1/2"
    J. EMBEDMENT OF REINFORCEMENT: UNLESS OTHERWISE INDICATED IN THESE DRAWINGS, EMBED ALL REINFORCING BARS TO THE FAR SIDE (LESS APPROPRIATE COVERAGE) OF CONNECTING AND SUPPORTING MEMBERS.
    K. REINFORCING LAP SPLICES
       1. UNLESS OTHERWISE INDICATED OR APPROVED BY THE ENGINEER IN ADVANCE, MAKE SPLICES FOR REINFORCING BARS BY LAPPING BARS. UNLESS OTHERWISE NOTED, LAP SPLICE COLUMN AND WALL BARS ABOVE FLOOR AND FOOTING LEVELS. UNLESS OTHERWISE NOTED FOR BEAMS AND SLABS, PLACE LAP SPLICES FOR TOP BARS WITHIN THE MIDDLE THIRD OF THE SPANS AND PLACE LAP SPLICES FOR BOTTOM BARS AND INTERMEDIATE BARS CENTERED OVER SUPPORTS, OR WHEN THIS IS NOT POSSIBLE, PLACE THEM WITHIN ONE THIRD OF THE SPAN LENGTH FROM THE CENTERLINE OF THE SUPPORTING COLUMN OR WALL. U.O.N., LENGTHS OF TENSION LAP SPLICES SHALL BE IN ACCORDANCE WITH "REBAR DEVELOPMENT AND LAP SPLICE LENGTHS FOR REINFORCING BARS" ON THIS SHEET.
    L. FINISH ALL CONCRETE TO MATCH ADJACENT EXISTING CONCRETE SURFACES.
    M. CURE ALL CONCRETE FOR MINIMUM OF SEVEN DAYS. THE CURING SHALL ENTAIL MAINTENANCE OF THE MOISTURE IN THE CONCRETE. GENERALLY, THIS SHALL BE ACCOMPLISHED BY TREATING EXPOSED CONCRETE SURFACES WITH A CHEMICAL CURING COMPOUND IMMEDIATELY AFTER FINISHING AND IMMEDIATELY AFTER REMOVAL OF FORMS. FORMS SHALL BE KEPT MOIST BY FREQUENT WATER SPRAYING PRIOR TO REMOVAL. CURING COMPOUND SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-309. VERIFY COMPATIBILITY OF CURING COMPOUND WITH PROPOSED FINISHES, OR COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLYING FINISHES.
11. SPLICING OF REINFORCING BARS TO EXISTING REINFORCING BARS:
    A. STANDARDS: ACI 318, AWS D1.4 AND AWS D1.1.
    B. MECHANICAL SPLICES MAY BE USED, PROVIDED THEY DEVELOP AT LEAST 125% OF THE YIELD STRENGTH OF THE ATTACHED BAR. CONTRACTOR SHALL SUBMIT MANUFACTURER'S TEST DATA.
    C. WELDED SPLICES SHALL LIKEWISE DEVELOP AT LEAST 125% OF THE YIELD STRENGTH OF THE ATTACHED BAR. A COMPLETE CHEMICAL ANALYSIS SHALL BE PROVIDED FOR ALL BARS, INCLUDING EXISTING BARS. ALL BARS WHICH ARE TO BE WELDED SHALL HAVE A CARBON EQUIVALENT OF LESS THAN 0.55%. REINFORCING BARS SHALL BE BUTT WELDED USING A SINGLE VEE OR DOUBLE VEE GROOVE JOINT WITH A GROOVE ANGLE OF 45° TO 60°. THE ROOT OPENING SHALL BE 1/8" E70XX OR E80XX (AS INDICATED IN AWS D1.4), AND LOW-HYDROGEN ELECTRODES SHALL BE USED. THE REINFORCING BARS SHALL BE PREHEATED AS REQUIRED BY AWS D1.4
    D. LAP SPLICE BARS AS INDICATED ABOVE.
12. SUBSTITUTIONS
    SUBSTITUTIONS FOR CONCRETE REPAIR PRODUCTS WILL NOT BE CONSIDERED. AT LEAST, TWO PRODUCTS HAVE BEEN SPECIFIED FOR EACH REPAIR TYPE FOR THE CONTRACTOR TO CHOOSE FROM. TO AVOID COMPATIBILITY ISSUES, USE ALL PRODUCTS FROM THE SAME MANUFACTURER.

REBAR DEVELOPMENT & LAP SPLICE SCHEDULE fc'= 5000 PSI

fc'= 5000 PSI	#6 & SMALLER		#7 & LARGER	
	TOP BARS (2)	OTHER BARS	TOP BARS (2)	OTHER BARS
DEVELOPMENT LENGTH & CLASS "A" SPLICE LENGTH	45 db	34 db	55 db	43 db
CLASS "B" SPLICE LENGTH	58 db	45 db	72 db	55 db

NOTES:
1. "db" DENOTES BAR DIAMETER.
2. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12 IN. OF CONCRETE CAST IN THE MEMBER BELOW THE SPLICE.
3. ALL SPLICES SHALL BE CLASS "B" SPLICE U.O.N.
4. DEVELOPMENT AND LAP SPLICE LENGTHS SHOWN IN SCHEDULE ABOVE ARE BASED ON CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN db, CLEAR COVER NOT LESS THAN db, AND STIRRUPS OR TIES THROUGHOUT THE DEVELOPMENT OR SPLICE LENGTH NOT LESS THAN THE CODE MINIMUM, OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db. FOR OTHER CASES, INCREASE LENGTHS GIVEN IN SCHEDULE ABOVE BY 50%.

ESTIMATED REPAIR QUANTITIES

REPAIR TYPE	NOTE AND DETAIL REFERENCES	DESCRIPTION OF WORK	ESTIMATED QUANTITY	UNIT OF MEASUREMENT
101	1S , 1/SR102	SPALLED CONCRETE REPAIRS INCLUDING STEEL REINFORCEMENT REPAIRS. FULL-DEPTH HORIZONTAL APPLICATIONS.	10.00	CF
102	1S , 1/SR102	SPALLED CONCRETE REPAIRS INCLUDING STEEL REINFORCEMENT REPAIRS. VERTICAL FULL-DEPTH APPLICATIONS.	3.0	CF
103	1S , 1/SR102	SPALLED CONCRETE REPAIRS INCLUDING STEEL REINFORCEMENT REPAIRS OVERHEAD PARTIAL-DEPTH APPLICATIONS (DEPTH <= 3")	1.0	CF
104	SEE SECTIONS	REMOVE EXIST. CONC. WINDOW BOX SLAB AND REPLACE.	FULL REPLACEMENT + WINDOW BOX SLAB	LUMP SUM
105	1S , 1/SR102	SPALLED CONCRETE REPAIRS INCLUDING STEEL REINFORCEMENT REPAIRS - VERT. PARTIAL-DEPTH APPLICATIONS (3"<DEPTH<=6")	40.0	CF
106		REMOVE STUCCO AND REPLACE (SEE ARCH. DWGS.)	75.00	SF
107	3S 3/SR102	CRACKED CONCRETE REPAIRS- EPOXY INJECTION - VERTICAL	6.0	LF
108	6S	SEAL CRACK		LUMP SUM
109	7E 4S	CLEAN, REPAIR AND COAT 7E . WHERE CONC. SLAB IS REMOVED FOR PATCHING OR REPLACEMENT, CLEAN REPAIR AND COAT ANCHORS AND PLATES FOR 7E .		LUMP SUM

NOTES:
1. ACTUAL REPAIR QUANTITIES WILL BE VERIFIED BY SPECIAL INSPECTOR AT THE TIME OF INSPECTION OF EACH REPAIR AREA. DO NOT PLACE PATCHING CONCRETE OR EPOXY REPAIR MATERIALS UNTIL PREPARED AREAS ARE INSPECTED, MEASURED AND APPROVED.
2. LINEAR QUANTITIES WILL BE MEASURED AND RECORDED TO THE NEAREST INCH. DIMENSIONS FOR DETERMINING REPAIR AREAS AND VOLUMES WILL BE MEASURED TO THE NEAREST INCH AND MULTIPLIED TO OBTAIN AREA OR VOLUME. THE RESULTANT WILL BE CONVERTED TO SQUARE FEET OR CUBIC FEET AND ROUNDED TO THE NEAREST ONE-TENTH (0.10) SQUARE FOOT OR CUBIC FOOT.
3. CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES OF THE UNIT PRICE REPAIRS INDICATED IN THIS SCHEDULE AS APPROVED BY THE SPECIAL INSPECTOR. ALL OTHER WORK (INCLUDING GENERAL CONDITIONS, OVERHEAD AND PROFIT, ETC.) SHALL BE INCLUDED IN THE LUMP SUM AMOUNT UNDER THE BASE CONTRACT.
4. ABBREVIATION INDEX: L.F. = LINEAR FEET, S.F. = SQUARE FEET, C.F. = CUBIC FEET.

GENERAL REPAIR NOTES:

1. ALL WORK SHALL BE INCLUDED AS A LUMP SUM IN THE BASE CONTRACT, EXCEPT AS NOTED ON THE "ESTIMATED REPAIR QUANTITIES FOR UNIT PRICE WORK" SCHEDULE.
2. CONTRACTOR SHALL BE PAID FOR ACTUAL QUANTITIES OF CONCRETE SPALLS AND CRACKS REPAIRED BASED ON UNIT PRICES IN ACCORDANCE WITH THE "ESTIMATED REPAIR QUANTITIES FOR UNIT PRICE WORK" SCHEDULE ON THIS SHEET.
3. MEASUREMENTS OF CONCRETE SPALL AND CRACK REPAIRS SHALL BE TAKEN BY CONTRACTOR AND AGREED UPON WITH SPECIAL INSPECTOR PRIOR TO PERFORMING ANY AND ALL REPAIRS AND CONCEALING ANY AREA W/ REPAIR MORTAR.
4. SUBMIT ANY PROPOSED SUBSTITUTES AND/OR ALTERNATIVE DETAILS ALONG WITH BID TO ENGINEER FOR REVIEW AND APPROVAL IN ORDER TO HAVE IT CONSIDERED PRIOR TO AWARD OF CONTRACT.

STRUCTURAL DRAWING NOTES:

1S REPAIR SPALLED CONC. AND CORRODED STL. REINFORCEMENT IN ACCORDANCE W/ TYP. REPAIR DETAIL 1 ON SR102.

2S REPLACE MISSING 6E W/ CORRUGATED OPAQUE, FIBERGLASS (MIN. 12 OZ. PER SQUARE FOOT) PANELS. MATCH CORRUGATION DIMENSIONS TO EXISTING CORRUGATION IN ADJACENT PANELS. OVERLAP ENDS OF EXISTING PANELS MIN. 3 INCHES. OVERLAP HORIZ. JOINT (IF REQUIRED) ONE CORRUGATION. ANCHOR PANEL TO 5E THROUGH ALL PANEL VALLEYS AT 24" O.C. MAX. STAGGER ROWS OF ANCHORS. USE 3/16" DIAM. STAINLESS STEEL TAPCON ANCHORS WITH MIN. 1-1/2" EMBEDMENT INTO 5E. DO NOT FASTEN THROUGH EXISTING CORRUGATED PANELS.

3S EPOXY INJECT CRACK IN CONC. IN ACCORDANCE W/ TYP. REPAIR DETAIL 3 ON SR102.

4S REMOVE ALL CORROSION AND CLEAN STEEL SURFACE. PATCH SMALL CORRODED AREAS W/ ADEQUATE EPOXY METAL REPAIR COMPOUND (SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO APPLICATION). REPORT TO ENGINEER IF SEVERE CORROSION ENCOUNTERED.

5S WHERE INDICATED, REMOVE EXIST. CONC. BY CHIPPING SO THAT EXIST. REINFORCEMENT IS RETAINED. LAP SPLICE REINFORCING BARS W/ EXISTING REINFORCING BARS. SEE "REBAR DEVELOPMENT AND LAP SPLICE SCHEDULE FOR CONCRETE" ON SR101.

6S SEAL CRACK IN EXIST. CONCRETE NEATLY W/ KNIFE-GRADE CAULK.

STRUCTURAL DRAWING NOTES - EXISTING CONDITIONS:

1E EXIST. DECORATIVE CONC. RIB
2E EXIST. DECORATIVE CONC. FRAME
3E EXIST. SUCCO
4E EXIST. C.M.U. WALL
5E EXIST. DECORATIVE CORRUGATED PANELS
6E EXIST. DECORATIVE WOOD RIB
7E EXIST. STEEL PIPE COLUMN / MULLION
8E EXIST. CONC. BEAM
9E EXIST. CONC. WALL
10E EXIST. CONC. WINDOW BOX
11E EXIST. CONC. COLUMN / TIE COLUMN

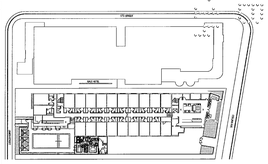
1N HSS 4X2X1/4 STEEL TUBE COLUMN/MULLION (GALV.)

ABBREVIATION LEGEND

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
#5	REBAR SIZE	INFO.	INFORMATION
ADD.	ADDITIONAL	INT.	INTERMEDIATE
ADJ.	ADJACENT	K	KIP (1000 LBS)
A.F.F.	ABOVE FINISHED FLOOR	LB. (S)	POUNDS (S)
AHU.	AIR HANDLING UNIT	L.P.	LOW POINT
ALUM.	ALUMINUM	LWC.	LIGHTWEIGHT CONCRETE
ANCH.	ANCHOR	MAX.	MAXIMUM
APPROX.	APPROXIMATE	MECH.	MECHANICAL
ARCH.	ARCHITECTURAL	MFR.	MANUFACTURER
B.E.	BOTH ENDS	MIN.	MINIMUM
B.F.	BOTH FACES	MISC.	MISCELLANEOUS
B.W.	BOTH WAYS (PERPENDICULAR)	MW- X	C.M.U. WALL MARK
BLDG.	BUILDING	N/A	NOT APPLICABLE
BLK.	BLOCKING	N.I.C.	NOT IN CONTRACT
BM.	BEAM	N.T.S.	NOT TO SCALE
BOTT.	BOTTOM	NWC	NORMAL WEIGHT CONCRETE
BRDG.	BRIDGING	O.C.	ON CENTER
BRG.	BEARING	OPNG. (S)	OPENING (S)
BTWN.	BETWEEN	OPP. HAND	OPPOSITE HAND
CANT.	CANTI LEVER	PCF	POUNDS PER CUBIC FOOT
C.I.P.	CAST IN PLACE CONCRETE	P/C	PRECAST
C.J.	CONSTRUCTION JOINT OR CONTROL JOINT	P.C.J.	PRECAST JOIST
C.M.U.	CONCRETE MASONRY UNIT	PC	PILECAP
C/C	CENTER TO CENTER	PL	PLATE
℄	DIMENSION CENTERLINE OF ELEMENTS	PLF	POUNDS PER LINEAR FOOT
CLR.	CLEAR DISTANCE BETWEEN ELEMENTS	P.P.T.	PRESSURE PRESERVATIVE TREATED
COL.	COLUMN	PRELIM.	PRELIMINARY
CONC.	CONCRETE	PROP.	PROPERTY
CONN.	CONNECTION	PSF	POUNDS PER SQUARE FOOT
CONST.	CONSTRUCTION	PSI	POUNDS PER SQUARE INCH
CONT.	CONTINUOUS CONDITION	QTY.	QUANTITY
COORD.	COORDINATE	REINF.	REINFORCING OR REINFORCEMENT
CORR.	CORRUGATED	REQD.	REQUIRED
CTR.	CENTER	REV.	REVISION
db	BAR DIAMETER	RTU.	ROOF TOP UNIT
DIA.	DIAMETER	SCHED.	SCHEDULE
DIAG.	DIAGONAL	SECT.	SECTION
DIM.	DIMENSION	S.H.	SHEAR HEAD
DIST.	DISTANCE	SHT.	SHEET
DN.	DOWN	SIM.	SIMILAR
DTL.	DETAIL	SPECS.	SPECIFICATIONS
DWG.	DRAWING	SQ.	SQUARE
EA.	EACH	STAGG.	STAGGERED
E.J.	EXPANSION JOINT	STD.	STANDARD
EL.	ELEVATION	STIFF.	STIFFENER
EMBED.	EMBEDMENT	STL.	STEEL
ENGR.	ENGINEER	STIR.	STIRRUP
E.O.R.	ENGINEER-OF-RECORD	STRUCT.	STRUCTURE OR STRUCTURAL
EQ.	EQUAL	SW -X	SHEARWALL MARK
EQUIP.	EQUIPMENT	SYM.	SYMMETRICAL CONDITION
E.W.	EACH WAY	T.O.	TOP OF
EXIST.	EXISTING	T.O.B	TOP OF BEAM
EXT.	EXTERIOR	T.O.C.	TOP OF CONCRETE
FAB.	FABRICATE	T.O.S.	TOP OF SLAB
FDN.	FOUNDATION	T.O.W.	TOP OF WALL
FIN.	FINISH(ED)	TYP.	TYPICAL
FLR.	FLOOR	U.N.O.	UNLESS NOTED OTHERWISE
FTG.	FOOTING	U.O.N.	UNLESS OTHERWISE NOTED
FUT.	FUTURE	VERT.	VERTICAL
GEN.	GENERAL	V.I.F.	VERIFY IN FIELD
G.L.	GRID LINE	WP	WATER PROOFING
GALV.	GALVANIZED	WD.	WOOD
H.P.	HIGH POINT	WT.	WEIGHT
HORIZ.	HORIZONTAL	W.W.F	WELDED WIRE FABRIC

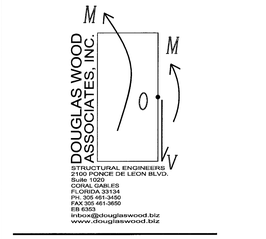
SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

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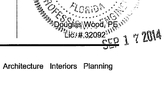


REVISIONS

NO.	DESCRIPTION	ISSUE DATE
1	REVISION 1	9.17.2014



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SHEET TITLE

GENERAL STRUCT. NOTES-EAST FACADE CONC. REPAIRS

SHEET NUMBER

SR101

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GENERAL STRUCTURAL NOTES (EAST FACADE CONCRETE REPAIRS)

1. CODES:
   ALL WORK SHALL CONFORM TO THE FLORIDA BUILDING CODE, 2010 EDITION AND ALL OTHER APPLICABLE LOCAL CODES.

2. BUILDING PERMIT:
   A. OBTAIN BUILDING PERMIT.
   B. COMPLY WITH THE REQUIREMENTS OF THE BUILDING PERMIT AND WITH OTHER REQUIREMENTS OF THE PERMITTING AUTHORITY.
   C. IF CHANGES TO STRUCTURAL DESIGN ARE ISSUED BY THE ENGINEER, SUBMIT CHANGES TO THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL. MAINTAIN PERMIT APPROVALS CONCURRENT WITH CONSTRUCTION.

3. CONSTRUCTION DOCUMENTS:
   A. EXAMINE AND STUDY ALL CONSTRUCTION DOCUMENTS PRIOR TO COMMENCEMENT OF WORK. DIRECT ANY QUESTIONS TO THE ENGINEER.

4. COORDINATION AND DIMENSIONS:
   A. COORDINATE ALL DIMENSIONS AND ELEVATIONS BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. VERIFY ALL DIMENSIONS AND CONDITIONS RELATED TO EXISTING CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION. BRING ANY DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ENGINEER. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE. SCALE IS FOR GUIDELINE PURPOSES ONLY. IF DIMENSIONS ARE UNCLEAR, DO NOT SCALE. REQUEST CLARIFICATION FROM THE ENGINEER.
   B. COORDINATE THE STRUCTURAL WORK WITH THE WORK OF ALL OTHER TRADES.
   C. COORDINATE ALL DIMENSIONS RELATIVE TO WINDOWS.

5. CONFLICTS IN DOCUMENTS:
   IF CONFLICTS OCCUR BETWEEN DOCUMENTS AND FIELD CONDITIONS OR OTHERWISE, IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND DIRECTION BEFORE PROCEEDING.

6. METHODS & SAFETY:
   THE CONTRACTOR IS RESPONSIBLE FOR ALL METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION. PROVIDE APPROPRIATE SUPERVISION THROUGHOUT THE PROJECT. CONSTRUCTION SITE SAFETY, INCLUDING ALL ADEQUATE TEMPORARY BRACING AND SHORING, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY THE NECESSARY PROFESSIONAL SERVICES TO DETERMINE THE NECESSARY METHODS AND SUPPORTS REGARDING FORMING AND CONSTRUCTION LOADS. TEMPORARY BRACING AND SHORING SHALL BE DESIGNED TO RESIST ALL CONSTRUCTION LOADS INCLUDING THE WEIGHTS OF ALL SUPPORTED MATERIALS PLUS A LIVE LOAD OF 50 PSF ON HORIZONTAL SURFACES. MAINTAIN TEMPORARY BRACING AND RETAIN IN PLACE UNTIL PERMANENT STRUCTURAL SYSTEMS ARE CAPABLE OF RESISTING ALL CONSTRUCTION PHASE LOADS.

7. PROTECTION:
   A. EXISTING CONSTRUCTION - DO NOT DAMAGE EXISTING CONSTRUCTION WHICH IS TO REMAIN. LOCATE AND PROTECT CONCEALED PIPES, CONDUITS AND OTHER EXISTING CONSTRUCTION PRIOR TO DEMOLITION AND TAKE APPROPRIATE ACTION TO PROTECT THEM AND TO PROVIDE FOR SAFETY.

8. CONSTRUCTION INSPECTIONS:
   NOTIFY THE BUILDING INSPECTOR FOR INSPECTION OF ALL STRUCTURAL WORK. VERIFY THAT EACH AND EVERY STRUCTURAL ITEM HAS BEEN ACCEPTED BY THE INSPECTOR PRIOR TO PROCEEDING WITH SUBSEQUENT WORK AND/OR CONCEALING ANY STRUCTURAL ITEM. ANY STRUCTURAL ITEM WHICH HAS NOT BEEN SPECIFICALLY ACCEPTED BY THE INSPECTOR AND/OR ANY CONCEALING CONSTRUCTION WILL BE SUBJECT TO REMOVAL AND RECONSTRUCTION.

9. SPECIAL INSPECTION:
   THE MUNICIPAL BUILDING OFFICIAL MAY REQUIRE SPECIAL INSPECTION FOR ALL STRUCTURAL CONCRETE REPAIRS. COMMUNICATE AND COORDINATE W/ SPECIAL INSPECTOR PRIOR TO COMMENCING WORK TO UNDERSTAND AND MEET ALL SPECIAL INSPECTION REQUIREMENTS. NOTIFY SPECIAL INSPECTOR FOR INSPECTION OF ALL COMPONENTS OF THESE REPAIRS PRIOR TO THEIR CONCEALMENT BY OTHER CONSTRUCTION. DO NOT CONCEAL ANY COMPONENT OF THESE REPAIRS UNTIL ACCEPTED BY SPECIAL INSPECTOR AND UNTIL SO INDICATED ON THE SPECIAL INSPECTION LOG. THE SPECIAL INSPECTION LOG WILL BE PREPARED BY SPECIAL INSPECTOR AND GIVEN TO CONTRACTOR FOR KEEPING ON SITE. KEEP THE SPECIAL INSPECTION LOG IN A CLEAN DRY AREA AT THE SITE AND MAKE IT AVAILABLE TO THE SPECIAL INSPECTOR AND TO THE MUNICIPAL BUILDING INSPECTOR UPON REQUEST. THE SPECIAL INSPECTOR WILL MAKE ENTRIES ON THE LOG FOR EACH SITE VISIT AND WILL INDICATE ACCEPTANCE OR REJECTION OF THE ITEMS OBSERVED. ACCEPTANCE APPLIES ONLY TO THOSE SPECIFIC ITEMS SO INDICATED. NO OTHER ITEMS OR AREAS ARE TO BE ASSUMED TO BE ACCEPTED. ANY COMPONENTS OF THE STRUCTURAL SYSTEMS WHICH HAVE BEEN CONCEALED WITHOUT SPECIFIC ACCEPTANCE BY THE SPECIAL INSPECTOR WILL BE REJECTED, AND ANY CONCEALING CONSTRUCTION MUST BE REMOVED. UPON ACCEPTANCE OF ALL COMPONENTS OF ALL SYSTEMS, RETURN SPECIAL INSPECTION LOG TO THE SPECIAL INSPECTOR.

10. CONCRETE (CAST-IN-PLACE):
   A. STANDARDS: ACI 318, ACI 301, ACI 347, ACI 207 AND ACI 117.
   B. CONCRETE MIXES
      1. SUBMIT CONCRETE MIX DESIGNS TO ENGINEER FOR REVIEW PRIOR TO USE.
      2. PROPORTION ALL NORMAL-WEIGHT CONCRETE IN ACCORDANCE WITH ACI 301 TO ATTAIN A COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS.
      3. SLUMP SHALL BE 4" (±1") FOR REGULAR MIXES AND NOT GREATER THAN 9" FOR MIXES WITH WATER-REDUCING ADMIXTURES. ADD NO WATER TO THE CONCRETE AT THE SITE, UNLESS OTHERWISE APPROVED BY THE ENGINEER IN ADVANCE AND ONLY IF TEST SAMPLES ARE TAKEN AFTER ADDITION OF THE APPROVED WATER.
      4. CEMENTITIOUS MATERIALS:
         a. CEMENT: ASTM C150, TYPE I, UNLESS OTHERWISE NOTED.
         b. FLY ASH: ASTM C618, CLASS F.
         c. GROUND GRANULATED BLAST-FURNACE SLAG: ASTM C989 GRADE 100 OR 120
         d. LIMIT PERCENTAGE OF FLY ASH, SLAG OR COMBINATION FLY ASH AND SLAG TO 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIALS, UNLESS OTHERWISE NOTED.
      5. CONCRETE SHALL HAVE 3 PERCENT TO 5 PERCENT ENTRAINED AIR.
      6. MAXIMUM WATER: CEMENT RATIO FOR ALL CONCRETE SHALL BE 0.50 (UNLESS OTHERWISE NOTED),
      7. LARGE-AGGREGATE PUMP MIXES WITH WATER-REDUCING ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. PEA ROCK PUMP MIXES WILL NOT BE APPROVED.
      8. COARSE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-33.
      9. WATER SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-1602.
      10. READY-MIX CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-94
   C. CONTRACT AN INDEPENDENT TESTING LABORATORY TO PERFORM THE CONCRETE CYLINDER SAMPLING AND TESTING AS REQUIRED BY SECTION 1923.2 OF THE FLORIDA BUILDING CODE, 2010. SUBMIT TEST REPORTS TO THE ENGINEER.
   D. PROVIDE ALL FORMING AND TEMPORARY SHORING.
   E. DO NOT EMBED PIPES OR CONDUITS IN THE CONCRETE WITHOUT THE WRITTEN APPROVAL FROM THE ENGINEER.
   F. REINFORCEMENT:
      1. STANDARD: ASTM A-615, GRADE 60, ASTM A185 FOR WELDED WIRE FABRIC. COAT ALL REINFORCEMENT WITH "BONDING AGENT". SEE "CONCRETE REPAIR PRODUCT SCHEDULE" ON SR102.
   G. CONCRETE COVER OVER REINFORCEMENT: UNLESS OTHERWISE INDICATED IN THESE DRAWINGS, PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS:
      1. 2 INCHES FOR COLUMNS AND BEAMS AND 1-1/2 INCHES FOR SLABS WHERE CAST IN FORMS AND PERMANENTLY EXPOSED TO WEATHER OR EARTH.
      2. 1-1/2 INCHES FOR INTERIOR COLUMNS AND BEAMS, AND FOR EXTERIOR WALLS, SLABS AND STAIRS AND AT OTHER LOCATIONS NOT OTHERWISE LOCATED HERE.
      3. 3/4-INCH FOR INTERIOR WALLS, SLABS AND STAIRS
   H. REINFORCEMENT PLACEMENT TOLERANCES: THE TOLERANCES FOR PLACING REINFORCING BARS SHALL BE AS FOLLOWS:
      1. MEMBERS WITH EFFECTIVE DEPTH LESS THAN 8":
         a. TOLERANCE ON EFFECTIVE DEPTH = +/- 3/8"
         b. TOLERANCE ON CONCRETE COVER = -3/8"
      2. MEMBERS WITH EFFECTIVE DEPTH GREATER THAN 8":
         a. TOLERANCE ON EFFECTIVE DEPTH = +/- 1/2"
         b. TOLERANCE ON CONCRETE COVER = - 1/2" THE EFFECTIVE DEPTH OF A MEMBER IS DEFINED AS THE OVERALL DEPTH LESS THE APPROPRIATE CONCRETE COVER FOR EACH MEMBER AS DEFINED ABOVE, STIRRUP OR TIE DIAMETER, AND MINUS THE DISTANCE TO THE CENTER OF THE REINFORCING BARS. THE EFFECTIVE DEPTH OF MEMBERS INDICATED TO BE REINFORCED AT MID-DEPTH SHALL BE ONE HALF THE OVERALL MEMBER THICKNESS. THE TOLERANCE FOR LONGITUDINAL LOCATIONS OF BENDS AND ENDS OF REINFORCEMENT SHALL BE ± 2", EXCEPT THE TOLERANCE SHALL BE ± 1/2" AT THE DISCONTINUOUS ENDS OF BRACKETS AND CORBELS, AND ± 1" AT THE DISCONTINUOUS ENDS OF OTHER MEMBERS.
   I. TOLERANCES
      1. MEMBER DIMENSION TOLERANCES
         a. MEMBER OVERALL DIMENSION LESS THAN OR EQUAL TO 12" : +3/8", -1/4"
         b. MEMBER OVERALL DIMENSION GREATER THAN 12" AND LESS THAN 36" : +1/2", -3/8"
         c. MEMBER OVERALL DIMENSION GREATER THAN 36" : +1", -3/4"
      2. VARIATIONS FROM PLUMB:
         a. FOR COLUMNS, PIERS AND WALLS: IN ANY TEN FOOT LENGTH: 1/4" MAXIMUM FOR ENTIRE LENGTH: 1"
         b. FOR EXPOSED CORNER COLUMNS, CONTROL JOINTS, GROOVE AND OTHER LINES: IN ANY TEN FOOT LENGTH: 1/4" MAXIMUM FOR ENTIRE LENGTH: 1/2"
      3. VARIATIONS FROM LEVEL OR FROM INDICATED GRADES
         a. SLABS AND BEAMS IN ANY TEN FOOT LENGTH: 1/4" IN ANY BAY OR IN ANY 20 FOOT LENGTH: 3/8" MAXIMUM FOR ENTIRE LENGTH: 1/4"
         b. FOR EXPOSED LINTELS, SILLS, PARAPETS, HORIZONTAL GROOVES AND OTHER LINES: IN ANY BAY OR IN ANY 20 FOOT LENGTH: 1/4" MAXIMUM FOR ENTIRE LENGTH: 1/2"
   J. EMBEDMENT OF REINFORCEMENT: UNLESS OTHERWISE INDICATED IN THESE DRAWINGS, EMBED ALL REINFORCING BARS TO THE FAR SIDE (LESS APPROPRIATE COVERAGE) OF CONNECTING AND SUPPORTING MEMBERS.
   K. REINFORCING LAP SPLICES
      1. UNLESS OTHERWISE INDICATED OR APPROVED BY THE ENGINEER IN ADVANCE, MAKE SPLICES FOR REINFORCING BARS BY LAPPING BARS. UNLESS OTHERWISE NOTED, LAP SPLICE COLUMN AND WALL BARS ABOVE FLOOR AND FOOTING LEVELS. UNLESS OTHERWISE NOTED FOR BEAMS AND SLABS, PLACE LAP SPLICES FOR TOP BARS WITHIN THE MIDDLE THIRD OF THE SPANS AND PLACE LAP SPLICES FOR BOTTOM BARS AND INTERMEDIATE BARS CENTERED OVER SUPPORTS, OR WHEN THIS IS NOT POSSIBLE, PLACE THEM WITHIN ONE THIRD OF THE SPAN LENGTH FROM THE CENTERLINE OF THE SUPPORTING COLUMN OR WALL. U.O.N., LENGTHS OF TENSION LAP SPLICES SHALL BE IN ACCORDANCE WITH "REBAR DEVELOPMENT AND LAP SPLICE LENGTHS FOR REINFORCING BARS" ON THIS SHEET.
   L. FINISH ALL CONCRETE TO MATCH ADJACENT EXISTING CONCRETE SURFACES.
   M. CURE ALL CONCRETE FOR MINIMUM OF SEVEN DAYS. THE CURING SHALL ENTAIL MAINTENANCE OF THE MOISTURE IN THE CONCRETE. GENERALLY, THIS SHALL BE ACCOMPLISHED BY TREATING EXPOSED CONCRETE SURFACES WITH A CHEMICAL CURING COMPOUND IMMEDIATELY AFTER FINISHING AND IMMEDIATELY AFTER REMOVAL OF FORMS. FORMS SHALL BE KEPT MOIST BY FREQUENT WATER SPRAYING PRIOR TO REMOVAL. CURING COMPOUND SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-309. VERIFY COMPATIBILITY OF CURING COMPOUND WITH PROPOSED FINISHES, OR COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLYING FINISHES.

11. SPLICING OF REINFORCING
   A. STANDARDS: ACI 318
   B. MECHANICAL SPLICE
      THE ATTACHED BAR.
   C. WELDED SPLICES SHALL
      BAR. A COMPLETE CHEM
      BARS WHICH ARE TO BE W
      BARS SHALL BE BUTT WELD
      OF 45° TO 60°. THE ROOT OPE
      LOW-HYDROGEN ELECTRODE
      REQUIRED BY AWS D1.4
   D. LAP SPLICE BARS AS INDICA

12. SUBSTITUTIONS
   SUBSTITUTIONS FOR CO
   BEEN SPECIFIED FOR E
   ISSUES, USE ALL PROC

REBAR
fc'= 5000
DEVELO CLASS "A
CLASS "B"

NOTES

1. "db" DEN
2. TOP BAR
   THE MEA
3. ALL SPL
4. DEVELO
   OF BARS
   STIRRUP
   SPACING
   CASES, IF

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         c. GROUND GRANULATED BLAST-FURNACE SLAG: ASTM C989 GRADE 100 OR 120
         d. LIMIT PERCENTAGE OF FLY ASH, SLAG OR COMBINATION FLY ASH AND SLAG TO 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIALS, UNLESS OTHERWISE NOTED.
      5. CONCRETE SHALL HAVE 3 PERCENT TO 5 PERCENT ENTRAINED AIR.
      6. MAXIMUM WATER: CEMENT RATIO FOR ALL CONCRETE SHALL BE 0.50 (UNLESS OTHERWISE NOTED).
      7. LARGE-AGGREGATE PUMP MIXES WITH WATER-REDUCING ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. PEA ROCK PUMP MIXES WILL NOT BE APPROVED.
      8. COARSE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-33.
      9. WATER SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-1602.
      10. READY-MIX CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-94
   C. CONTRACT AN INDEPENDENT TESTING LABORATORY TO PERFORM THE CONCRETE CYLINDER SAMPLING AND TESTING AS REQUIRED BY SECTION 1923.2 OF THE FLORIDA BUILDING CODE, 2010. SUBMIT TEST REPORTS TO THE ENGINEER.
   D. PROVIDE ALL FORMING AND TEMPORARY SHORING.
   E. DO NOT EMBED PIPES OR CONDUITS IN THE CONCRETE WITHOUT THE WRITTEN APPROVAL FROM THE ENGINEER.
   F. REINFORCEMENT:
      1. STANDARD: ASTM A-615, GRADE 60, ASTM A185 FOR WELDED WIRE FABRIC. COAT ALL REINFORCEMENT WITH "BONDING AGENT". SEE "CONCRETE REPAIR PRODUCT SCHEDULE" ON SR102.
   G. CONCRETE COVER OVER REINFORCEMENT: UNLESS OTHERWISE INDICATED IN THESE DRAWINGS, PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS:
      1. 2 INCHES FOR COLUMNS AND BEAMS AND 1-1/2 INCHES FOR SLABS WHERE CAST IN FORMS AND PERMANENTLY EXPOSED TO WEATHER OR EARTH.
      2. 1-1/2 INCHES FOR INTERIOR COLUMNS AND BEAMS, AND FOR EXTERIOR WALLS, SLABS AND STAIRS AND AT OTHER LOCATIONS NOT OTHERWISE LOCATED HERE.
      3. 3/4-INCH FOR INTERIOR WALLS, SLABS AND STAIRS
   H. REINFORCEMENT PLACEMENT TOLERANCES: THE TOLERANCES FOR PLACING REINFORCING BARS SHALL BE AS FOLLOWS:
      1. MEMBERS WITH EFFECTIVE DEPTH LESS THAN 8":
         a. TOLERANCE ON EFFECTIVE DEPTH = +/- 3/8"
         b. TOLERANCE ON CONCRETE COVER = - 3/8"
      2. MEMBERS WITH EFFECTIVE DEPTH GREATER THAN 8":
         a. TOLERANCE ON EFFECTIVE DEPTH = +/- 1/2"
         b. TOLERANCE ON CONCRETE COVER = - 1/2" THE EFFECTIVE DEPTH OF A MEMBER IS DEFINED AS THE OVERALL DEPTH LESS THE APPROPRIATE CONCRETE COVER FOR EACH MEMBER AS DEFINED ABOVE, STIRRUP OR TIE DIAMETER, AND MINUS THE DISTANCE TO THE CENTER OF THE REINFORCING BARS. THE EFFECTIVE DEPTH OF MEMBERS INDICATED TO BE REINFORCED AT MID-DEPTH SHALL BE ONE HALF THE OVERALL MEMBER THICKNESS. THE TOLERANCE FOR LONGITUDINAL LOCATIONS OF BENDS AND ENDS OF REINFORCEMENT SHALL BE ± 2", EXCEPT THE TOLERANCE SHALL BE ± 1/2" AT THE DISCONTINUOUS ENDS OF BRACKETS AND CORBELS, AND ± 1" AT THE DISCONTINUOUS ENDS OF OTHER MEMBERS.
   I. TOLERANCES
      1. MEMBER DIMENSION TOLERANCES
         a. MEMBER OVERALL DIMENSION LESS THAN OR EQUAL TO 12" : +3/8", -1/4"
         b. MEMBER OVERALL DIMENSION GREATER THAN 12" AND LESS THAN 36" : +1/2", -3/8"
         c. MEMBER OVERALL DIMENSION GREATER THAN 36" : +1", -3/4"
      2. VARIATIONS FROM PLUMB:
         a. FOR COLUMNS, PIERS AND WALLS: IN ANY TEN FOOT LENGTH: 1/4" MAXIMUM FOR ENTIRE LENGTH: 1"
         b. FOR EXPOSED CORNER COLUMNS, CONTROL JOINTS, GROOVE AND OTHER LINES: IN ANY TEN FOOT LENGTH: 1/4" MAXIMUM FOR ENTIRE LENGTH: 1/2"
      3. VARIATIONS FROM LEVEL OR FROM INDICATED GRADES
         a. SLABS AND BEAMS IN ANY TEN FOOT LENGTH: 1/4" IN ANY BAY OR IN ANY 20 FOOT LENGTH: 3/8" MAXIMUM FOR ENTIRE LENGTH: 1/4"
         b. FOR EXPOSED LINTELS, SILLS, PARAPETS, HORIZONTAL GROOVES AND OTHER LINES: IN ANY BAY OR IN ANY 20 FOOT LENGTH: 1/4" MAXIMUM FOR ENTIRE LENGTH: 1/2"
   J. EMBEDMENT OF REINFORCEMENT: UNLESS OTHERWISE INDICATED IN THESE DRAWINGS, EMBED ALL REINFORCING BARS TO THE FAR SIDE (LESS APPROPRIATE COVERAGE) OF CONNECTING AND SUPPORTING MEMBERS.
   K. REINFORCING LAP SPLICES
      1. UNLESS OTHERWISE INDICATED OR APPROVED BY THE ENGINEER IN ADVANCE, MAKE SPLICES FOR REINFORCING BARS BY LAPPING BARS. UNLESS OTHERWISE NOTED, LAP SPLICE COLUMN AND WALL BARS ABOVE FLOOR AND FOOTING LEVELS. UNLESS OTHERWISE NOTED FOR BEAMS AND SLABS, PLACE LAP SPLICES FOR TOP BARS WITHIN THE MIDDLE THIRD OF THE SPANS AND PLACE LAP SPLICES FOR BOTTOM BARS AND INTERMEDIATE BARS CENTERED OVER SUPPORTS, OR WHEN THIS IS NOT POSSIBLE, COLUMN OR WALL. U.O.N., LENGTHS OF TENSION LAP SPLICES SHALL BE IN ACCORDANCE WITH "REBAR DEVELOPMENT AND LAP SPLICE LENGTHS FOR REINFORCING BARS" ON THIS SHEET.
   L. FINISH ALL CONCRETE TO MATCH ADJACENT EXISTING CONCRETE SURFACES.
   M. CURE ALL CONCRETE FOR MINIMUM OF SEVEN DAYS. THE CURING SHALL ENTAIL MAINTENANCE OF THE MOISTURE IN THE CONCRETE. GENERALLY, THIS SHALL BE ACCOMPLISHED BY TREATING EXPOSED CONCRETE SURFACES WITH A CHEMICAL CURING COMPOUND IMMEDIATELY AFTER FINISHING AND IMMEDIATELY AFTER REMOVAL OF FORMS. FORMS SHALL BE KEPT MOIST BY FREQUENT WATER SPRAYING PRIOR TO REMOVAL. CURING COMPOUND SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-309. VERIFY COMPATIBILITY OF CURING COMPOUND WITH PROPOSED FINISHES, OR COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLYING FINISHES.

11. SPLICING OF REINFORCING BARS TO EXISTING R
   A. STANDARDS: ACI 318, AWS D1.4 AND AWS
   B. MECHANICAL SPLICES MAY BE USED, PRO THE ATTACHED BAR. CONTRACTOR SHAL
   C. WELDED SPLICES SHALL LIKEWISE DEVE BAR. A COMPLETE CHEMICAL ANALYSIS BARS WHICH ARE TO BE WELDED SHAL BARS SHALL BE BUTT WELDED USING OF 45° TO 60°. THE ROOT OPENING SH LOW-HYDROGEN ELECTRODES SHALL B REQUIRED BY AWS D1.4
   D. LAP SPLICE BARS AS INDICATED ABOV

12. SUBSTITUTIONS
   SUBSTITUTIONS FOR CONCRETE R BEEN SPECIFIED FOR EACH REP ISSUES, USE ALL PRODUCTS FRO

REBAR DEVE

fc'= 5000 PSI

DEVELOPMENT LENGTH
CLASS "A" SPLICE LENG
CLASS "B" SPLICE LENG

NOTES:

1. "db" DENOTES BAR DIAME
2. TOP BARS ARE HORIZON THE MEMBER BELOW TH
3. ALL SPLICES SHALL BE
4. DEVELOPMENT AND LA OF BARS BEING DEVEL STIRRUPS OR TIES THR SPACING OF BARS BEI CASES, INCREASE LEN

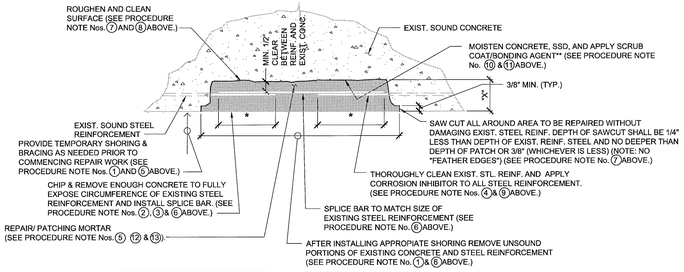
EXTENT OF WORK

AREAS OF EXISTING CONCRETE REQUIRING REPAIR ARE INDICATED IN THESE DRAWINGS. NOTIFY SPECIAL INSPECTOR FOR OBSERVATION PRIOR TO ALL PHASES OF CONCRETE REPAIR WORK INCLUDING MIXING OF REPAIR PRODUCTS, SURFACE PREPARATION, APPLICATION OF BONDING AGENT (IF ANY) AND REPAIR MORTAR.

PROCEDURE:

1. REMOVE UNNECESSARY LOADS AND PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING TO STRUCTURAL MEMBERS TO REMOVE LOAD TO MEMBER WHICH IS TO BE REPAIRED. WHERE SHORING IS NOT PRACTICAL OR POSSIBLE, REMOVE EXISTING DETERIORATED CONCRETE AND COMPLETE REPAIRS IN SECTIONS SMALL ENOUGH NOT TO REQUIRE SHORING OR BRACING. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES.
2. REMOVE LOOSE, UNSOUND AND HONEYCOMBED CONCRETE.
3. EXPOSE ENTIRE CIRCUMFERENCE OF EXISTING STEEL REBAR.
4. CLEAN ALL LOOSE RUST FROM EXISTING STEEL REINFORCEMENT USING HIGH PRESSURE WATER, ABRASIVE BLAST CLEANING MECHANICALLY POWERED WIRE BRUSHES OR OTHER APPROPRIATE MEANS.
5. WHERE APPROX. 20% OR MORE OF MATERIAL LOSS HAS OCCURRED TO THE EXISTING STEEL REINFORCEMENT, ADEQUATELY SHORE THE DIRECTLY AND INDIRECTLY AFFECTED MEMBERS AND CONTINUE TO STEP 6, OTHERWISE SKIP TO STEP 7 BELOW.
6. CHIP JUST ENOUGH OF THE EXISTING CONCRETE TO EXPOSE THE ADEQUATE LENGTH REQUIRED TO INSTALL SPLICE BAR TO MATCH SIZE OF EXISTING REINFORCEMENT. PROVIDE ADEQUATE CONCRETE COVERAGE. BARS MAY BE LAP SPLICED (MINIMUM 45 BAR DIAMETERS FOR 3/4" Ø BARS AND SMALLER AND 55. BAR DIAMETERS FOR LARGER BARS) OR WELD SPLICED (CONTACT ENGINEER FOR ADDITIONAL INSTRUCTIONS), OR WHERE ADEQUATE COVERAGE IS PROVIDED, BARS MAY BE MECHANICALLY SPLICED USING A REBAR COUPLER (SUBMIT PRODUCT INFORMATION TO ENGINEER).
7. PREPARE CONCRETE SURFACE TO BE REPAIRED SUCH THAT THE SURFACE IS ROUGH (SURFACE PROFILE SHALL COMPLY WITH CSP-7 LEVEL IN ACCORDANCE WITH ICRI GUIDELINE 03720 AND HAVE MINIMUM PROJECTIONS OF 1/8"), FREE OF DELAMINATIONS AND VOIDS. SQUARE ALL EDGES TO ENSURE A MINIMUM 3/8" THICKNESS.
8. CLEAN EXISTING CONCRETE SURFACES OF ALL DIRT, DUST AND OTHER DELETERIOUS MATERIALS SUCH THAT PORE STRUCTURE IS UNCLOGGED AND OPEN. USE BLASTING AND/OR VACUUMING METHODS TO ENSURE PORE STRUCTURE IS PROPERLY PREPARED. INSPECT ALL SURFACES FOR FOREIGN MATERIALS WHICH MIGHT INHIBIT BOND.
9. CLEAN AND COAT ALL STEEL WITH CORROSION INHIBITING PRIMER, APPLY (2) TWO COATS AT 10 MILS EACH. ALLOW COATING TO PROPERLY DRY (USUALLY 2 - 3 HOURS) PRIOR TO APPLYING PATCHING MORTAR. IF COATING DRIES FOR OVER 24 HOURS, RE-APPLY ONE (1) COAT.
10. MOISTEN CONCRETE SURFACES TO BE REPAIRED (SUBSTRATE SHALL BE SATURATED SURFACE DRY (SSD) W/ NO STANDING WATER DURING APPLICATION).
11. APPLY A SCRUB COAT (FLUID PASTE) OF PATCHING MORTAR FILLING ALL PORES AND VOIDS. USE BONDING AGENT**, IN LIEU OF SCRUB COAT FOR OVERHEAD APPLICATIONS ONLY AND WITH THE PRIOR APPROVAL OF ENGINEER AND SPECIAL INSPECTOR.
12. WHILE SCRUB COAT OR BONDING AGENT IS STILL WET, APPLY PATCHING MORTAR. USING LOW OR HIGH VELOCITY IMPACT OR OTHER APPROVED INTIMATE CONTACT TECHNIQUE.
13. FOR APPLICATIONS WHERE "X" IS GREATER THAN 1-1/2", APPLY PATCHING MORTAR IN LIFTS. SCORE THE SURFACE OF EACH PREVIOUS LIFT TO PRODUCE A ROUGHENED SURFACE FOR THE NEXT LIFT. ALLOW EACH PRECEDING LIFT TO REACH FINAL SET (APPROX. 30-50 MINS). REPEAT STEPS (8) AND (9) FOR EACH LIFT. DO NOT EXCEED 8" IN TOTAL DEPTH (NOTE: THIS STEP IS NOT APPLICABLE TO FORM-AND-CAST REPAIRS.
14. FINISH REPAIR AREA IMMEDIATELY AFTER INITIAL SET. MATCH FINISH OF EXISTING ADJACENT AREAS. ALLOW AREA TO PROPERLY CURE.

NOTE : USE ALL PRODUCTS IN STRICT ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS.



* SEE PROCEDURE NOTE No. (6) ABOVE FOR SPLICE LENGTH

** FOR OVERHEAD APPLICATIONS ONLY:
USE BONDING AGENT IN LIEU OF A SCRUB COAT (FLUID PASTE). MIX, HANDLE AND APPLY BONDING AGENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. APPLY FRESH PATCHING MORTAR WHILE BONDING AGENT IS STILL WET OR WIN ACCEPTABLE "OPEN TIME", SEE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

TYPICAL REPAIR DETAIL FOR HORIZONTAL, OVERHEAD AND VERTICAL (SPALLED, DAMAGED, HONEYCOMBED, ETC.) CONCRETE SURFACES (WITH EXPOSED REINFORCEMENT)

N.T.S. — 1 SR102

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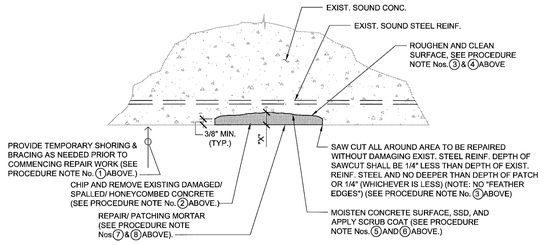
EXTENT OF WORK

AREAS OF EXISTING CONCRETE REQUIRING REPAIR ARE INDICATED IN THESE DRAWINGS. NOTIFY SPECIAL INSPECTOR FOR OBSERVATION PRIOR TO ALL PHASES OF CONCRETE REPAIR WORK INCLUDING MIXING OF REPAIR PRODUCTS, SURFACE PREPARATION, APPLICATION OF BONDING AGENT (IF ANY) AND REPAIR MORTAR.

PROCEDURE:

1. REMOVE UNNECESSARY LOADS AND PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING TO STRUCTURAL MEMBERS TO REMOVE LOAD TO MEMBER WHICH IS TO BE REPAIRED. WHERE SHORING IS NOT PRACTICAL OR POSSIBLE, REMOVE EXISTING DETERIORATED CONCRETE AND COMPLETE REPAIRS IN SECTIONS SMALL ENOUGH NOT TO REQUIRE SHORING OR BRACING. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES.
2. REMOVE LOOSE AND UNSOUND CONCRETE.
3. PREPARE CONCRETE SURFACE TO BE REPAIRED SUCH THAT THE SURFACE IS ROUGH (SURFACE PROFILE SHALL COMPLY WITH CSP-7 LEVEL IN ACCORDANCE WITH ICRI GUIDELINE 03720 AND HAVE MINIMUM PROJECTIONS OF 1/8"), FREE OF DELAMINATIONS AND VOIDS, AND SQUARE ALL EDGES TO ENSURE A MINIMUM 3/8" THICKNESS.
4. CLEAN EXISTING CONCRETE SURFACES OF ALL DIRT, DUST AND OTHER DELETERIOUS MATERIALS SUCH THAT PORE STRUCTURE IS UNCLOGGED AND OPEN. USE BLASTING AND/OR VACUUMING METHODS TO ENSURE PORE STRUCTURE IS PROPERLY PREPARED. INSPECT ALL SURFACES FOR FOREIGN MATERIALS WHICH MIGHT INHIBIT BOND.
5. MOISTEN CONCRETE SURFACES TO BE REPAIRED (SUBSTRATE SHALL BE SATURATED SURFACE DRY (SSD) W/ NO STANDING WATER DURING APPLICATION).
6. APPLY A SCRUB COAT (FLUID PASTE) OF PATCHING MORTAR FILLING ALL PORES AND VOIDS. USE BONDING AGENT*, IN LIEU OF SCRUB COAT FOR OVERHEAD APPLICATIONS ONLY AND WITH THE PRIOR APPROVAL OF ENGINEER AND SPECIAL INSPECTOR.
7. WHILE SCRUB COAT OR BONDING AGENT IS STILL WET, APPLY PATCHING MORTAR. USING LOW OR HIGH VELOCITY IMPACT OR OTHER APPROVED INTIMATE CONTACT TECHNIQUE.
8. FOR APPLICATIONS WHERE "X" IS GREATER THAN 1-1/2", APPLY PATCHING MORTAR IN LIFTS. SCORE THE SURFACE OF EACH PREVIOUS LIFT TO PRODUCE A ROUGHENED SURFACE FOR THE NEXT LIFT. ALLOW EACH PRECEDING LIFT TO REACH FINAL SET (APPROX. 30 MINS.). REPEAT STEPS 4 AND (5) FOR EACH LIFT (NOTE: THIS STEP IS NOT APPLICABLE TO FORM-AND-CAST REPAIRS).

NOTE: USE ALL PRODUCTS IN STRICT ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS.



* FOR OVERHEAD APPLICATIONS ONLY:
USE A BONDING AGENT IN LIEU OF A SCRUB COAT (FLUID PASTE). MIX, HANDLE AND APPLY BONDING AGENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. APPLY FRESH PATCHING MORTAR WHILE BONDING AGENT IS STILL WET OR WIN ACCEPTABLE "OPEN TIME", SEE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

TYPICAL REPAIR DETAIL FOR HORIZONTAL, OVERHEAD AND VERTICAL (DAMAGED, HONEYCOMBED, ETC.) CONCRETE SURFACES (NO EXPOSED REINFORCEMENT FOUND)

N.T.S. — 2 SR102

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EXTENT OF WORK

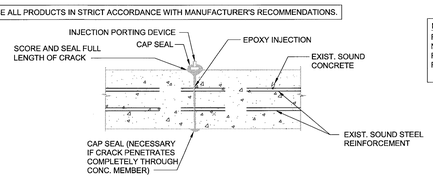
1. CRACKS TO BE REPAIRED ARE INDICATED IN THESE DRAWINGS.
2. DO NOT REPAIR ANY CRACK THAT IS LESS THAN 0.005 INCH AT ITS WIDEST POINT, U.O.N.

STANDARDS:
ASTM C 881-02 "STANDARD SPECIFICATION FOR EPOXY-RESIN-BASED BONDING SYSTEMS FOR CONCRETE."

PROCEDURE:

1. THOROUGHLY CLEAN ALL DUST, DIRT, OIL, GREASE, CHEMICALS, WATER AND OTHER DELETERIOUS MATERIALS FROM AREA OF CRACK TO BE REPAIRED.
2. SCORE FULL LENGTH OF CRACK
3. SET APPROPRIATE INJECTION PORTS. SPACING OF PORTS SHALL EQUAL THICKNESS OF MEMBER BEING INJECTED OR AS OTHERWISE REQUIRED TO ENSURE PROPER INJECTION OF CRACK.
4. SEAL PORTS AND ENTIRE LENGTH OF CRACK (BOTH SIDES OF CRACK IF CRACK PENETRATES COMPLETELY THROUGH CONCRETE MEMBER) BY APPLYING, HIGH - STRENGTH, EPOXY GEL, CONFORMING TO ASTM C 881 TYPES I, II, IV OR V, AND GRADE 3 CLASSES B AND C). APPLY NEATLY AND SMOOTHLY. FOR CONCRETE WHICH IS TO BE EXPOSED TO VIEW, EXTRA CARE MUST BE TAKEN TO KEEP PASTE IN CRACK ONLY (APPLY WITH NARROW-TIPPED, MANUALLY OPERATED CAULKING GUN OR OTHER APPROPRIATE MEANS TO KEEP PASTE OFF THE EXPOSED SURFACES).
5. ALLOW SEAL TO CURE IN ACCORDANCE WITH PRODUCT RECOMMENDATIONS (USUALLY AT LEAST 24 HOURS.)
6. INJECT LOW-VISCOSITY, HIGH-STRENGTH, EPOXY RESIN ADHESIVE CONFORMING TO ASTM C 881 TYPES I, II, IV OR V, AND GRADE 1 CLASSES B AND C USING AUTOMATED INJECTION EQUIPMENT AND STEADY PRESSURE. FOR VERTICAL AND INCLINED CRACKS, COMMENCE INJECTION AT THE LOWEST END OF CRACK AND PROCEED UPWARD. COMPLETELY FILL CRACK WITH ADHESIVE. IF FLOW FROM PORT TO SUCCESSIVE PORTS CANNOT BE ACHEIVED, REPORT TO THE ENGINEER. TEN MINUTES AFTER INITIAL INJECTION HAS BEEN COMPLETED AT THE HIGHER ELEVATION PORT, REINJECT AT THAT PORT UNTIL NO ADDITIONAL ADHESIVE CAN BE INJECTED. FOR ALL TYPES OF CRACKS (VERTICAL, INCLINED & HORIZONTAL), REPEAT THE REINJECTION PROCEDURE UNTIL ALL PORTS REFUSE INJECTION ADHESIVE TEN MINUTES AFTER PREVIOUS INJECTION RESULTED IN THE PORT ACCEPTING ADHESIVE.
7. REMOVE INJECTION PORTS AND PATCH SURFACE. GRIND ANY EXCESS SEALANT, PASTE AND/OR EPOXY ADHESIVE SUCH THAT THE SURFACE IMMEDIATELY ADJACENT AND AROUND THE REPAIRED CRACK IS FLUSH AND SMOOTH. MATCH EXISTING SURFACE TEXTURE IN AREAS WHICH ARE EXPOSED TO VIEW.
8. CLEAN AND REMOVE ALL SPILLS AND LEAKS OF INJECTION ADHESIVE AND STAINS.

NOTE: USE ALL PRODUCTS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



NOTE:
REMOVE EXISTING FINISHES AS NECESSARY TO PERFORM REPAIRS AND REPLACE FINISHES (SEE ARCH. DWGS.)

TYPICAL REPAIR DETAIL FOR EPOXY INJECTION FOR HORIZONTAL AND VERTICAL CONCRETE CRACK

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EAST FACADE

CONCRETE REPAIR PRODUCT SCHEDULE

APPLICATION DESCRIPTION	CONCRETE REPAIR PRODUCT	MANUFACTURER	REMARKS
BONDING AGENT	ARMATEC 110 EPOCEM	SIKA CORP.	ONLY FOR OVERHEAD APPLICATIONS OR WHERE OTHERWISE INDICATED. USE SCRUB COAT FOR VERTICAL AND HORIZONTAL APPLICATIONS (OPEN AND UNCLOG PORE STRUCTURE)
	PLANIBOND 3C	MAPEI	
CORROSION INHIBITING PRIMER	ARMATEC 110 EPOCEM	SIKA CORP.	APPLY TO ALL EXPOSED SURFACES OF STEEL REINFORCEMENT AND OTHER EMBEDDED STEEL MEMBERS.
	PLANIBOND 3C	MAPEI	
VERTICAL AND OVERHEAD REPAIRS	SIKATOP 123 OR SIKAQUICK VOH	SIKA CORP.	TROWEL APPLIED IN LIFTS. LIFT THICKNESS = 1/8" MIN. AND 1-1/2" MAX. DO NOT EXCEED 8" TOTAL THICKNESS.
	PLANITOP XS	MAPEI	
HORIZONTAL REPAIRS	SIKATOP 122 PLUS	SIKA CORP.	TROWEL APPLIED IN LIFTS. LIFT THICKNESS = 1/8" MIN. AND 1" MAX. (IF NEAT) OR 4" MAX. (IF EXTENDED, SEE MANUFACTURER'S DATA SHEET).
	MAPECEM 202	MAPEI	
FORM-AND-CAST REPAIRS (FULL-DEPTH)	SIKACRETE 211 SCC PLUS	SIKA CORP.	UP TO 8" THICK APPLICATIONS. FOR APPLICATIONS GREATER THAN 8" THICK, NOTIFY ENGINEER.
	PLANITOP 11 SCC	MAPEI	
FORM-AND-CAST REPLACEMENT SLABS FOR (10E)	SEE "FORM-AND-CAST REPAIRS" OR CONCRETE (SEE GEN.STRUCT. NOTES" No.10)		COAT ALL REINF. BARS WITH "BONDING AGENT" (SEE ABOVE).

NOTES:

1. COORDINATE AND SCHEDULE A PRE-CONSTRUCTION METING W/ GENERAL CONTRACTOR, CONCRETE REPAIR CONTRACTOR, PRODUCT MANUFACTURER REPRESENTATIVE, SPECIAL INSPECTOR AND ENGINEER PRIOR TO COMMENCEMENT OF THIS WORK.
2. SUBMIT PRODUCT DATA SHEETS FOR PRODUCTS TO BE USED TO ENGINEER AND KEEP A COPY OF ALL CURRENT PRODUCT SHEETS ON SITE.
3. NO SUBSTITUTIONS WILL BE ACCEPTED. USE PRODUCTS IN STRICT ACCORDANCE W/ MANUFACTURER'S WRITTEN RECOMMENDATIONS.

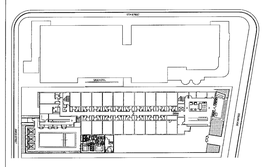
STORE, HANDLE, PREPARE SURFACES, FORM, MIX AND APPLY ALL PRODUCTS IN STRICT ACCORDANCE W/ MANUFACTURER'S WRITTEN RECOMMENDATIONS

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.

SAN JUAN HOTEL
1680 COLLINS AVE

MIAMI BEACH, FL

KEYPLAN N.T.S.



REVISIONS

NO.	DESCRIPTION	ISSUE DATE

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CHECKED BY: D.W.

ISSUE DATE: 04.21.2014

SCALE: AS SHOWN

SHEET TITLE

TYP. CONC. REPAIR DETAILS EAST FACADE CONC. REPAIRS

SHEET NUMBER

SR102

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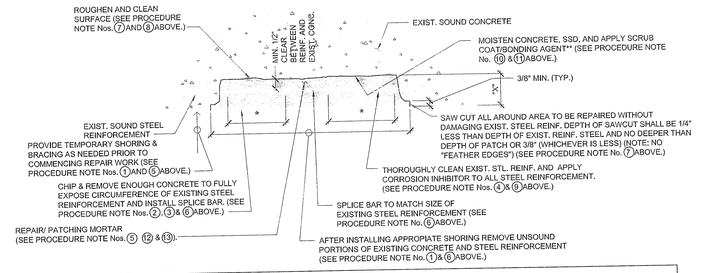
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PROCEDURE:

1. REMOVE UNNECESSARY LOADS AND PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING TO STRUCTURAL MEMBERS TO REMOVE LOAD TO MEMBER WHICH IS TO BE REPAIRED. WHERE SHORING IS NOT PRACTICAL OR POSSIBLE, REMOVE EXISTING DETERIORATED CONCRETE AND COMPLETE REPAIRS IN SECTIONS SMALL ENOUGH NOT TO REQUIRE SHORING OR BRACING. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES.
2. REMOVE LOOSE, UNSOUND AND HONEYCOMBED CONCRETE.
3. EXPOSE ENTIRE CIRCUMFERENCE OF EXISTING STEEL REBAR.
4. CLEAN ALL LOOSE RUST FROM EXISTING STEEL REINFORCEMENT USING HIGH PRESSURE WATER, ABRASIVE BLAST CLEANING MECHANICALLY POWERED WIRE BRUSHES OR OTHER APPROPRIATE MEANS.
5. WHERE APPROX. 20% OR MORE OF MATERIAL LOSS HAS OCCURRED TO THE EXISTING STEEL REINFORCEMENT, ADEQUATELY SHORE THE DIRECTLY AND INDIRECTLY AFFECTED MEMBERS AND CONTINUE TO STEP 6, OTHERWISE SKIP TO STEP 7 BELOW.
6. CHIP JUST ENOUGH OF THE EXISTING CONCRETE TO EXPOSE THE ADEQUATE LENGTH REQUIRED TO INSTALL SPLICE BAR TO MATCH SIZE OF EXISTING REINFORCEMENT. PROVIDE ADEQUATE CONCRETE COVERAGE. BARS MAY BE LAP SPLICED (MINIMUM 45 BAR DIAMETERS FOR 3/4" Ø BARS AND SMALLER AND 55 BAR DIAMETERS FOR LARGER BARS) OR WELD SPLICED (CONTACT ENGINEER FOR ADDITIONAL INSTRUCTIONS), OR WHERE ADEQUATE COVERAGE IS PROVIDED, BARS MAY BE MECHANICALLY SPLICED USING A REBAR COUPLER (SUBMIT PRODUCT INFORMATION TO ENGINEER).
7. PREPARE CONCRETE SURFACE TO BE REPAIRED SUCH THAT THE SURFACE IS ROUGH (SURFACE PROFILE SHALL COMPLY WITH CSP-7 LEVEL IN ACCORDANCE WITH ICRI GUIDELINE 03720 AND HAVE MINIMUM PROJECTIONS OF 1/8"), FREE OF DELAMINATIONS AND VOIDS, SQUARE ALL EDGES TO ENSURE A MINIMUM 3/8" THICKNESS.
8. CLEAN EXISTING CONCRETE SURFACES OF ALL DIRT, DUST AND OTHER DELETERIOUS MATERIALS SUCH THAT PORE STRUCTURE IS UNCLOGGED AND OPEN. USE BLASTING AND/OR VACUUMING METHODS TO ENSURE PORE STRUCTURE IS PROPERLY PREPARED. INSPECT ALL SURFACES FOR FOREIGN MATERIALS WHICH MIGHT INHIBIT BOND.
9. CLEAN AND COAT ALL STEEL WITH CORROSION INHIBITING PRIMER. APPLY (2) TWO COATS AT 10 MILS EACH, ALLOW COATING TO PROPERLY DRY (USUALLY 2 - 3 HOURS) PRIOR TO APPLYING PATCHING MORTAR. IF COATING DRIES FOR OVER 24 HOURS, RE-APPLY ONE (1) COAT.
10. MOISTEN CONCRETE SURFACES TO BE REPAIRED (SUBSTRATE SHALL BE SATURATED SURFACE DRY (SSD) W/ NO STANDING WATER DURING APPLICATION).
11. APPLY A SCRUB COAT (FLUID PASTE) OF PATCHING MORTAR FILLING ALL PORES AND VOIDS. USE BONDING AGENT**, IN LIEU OF SCRUB COAT FOR OVERHEAD APPLICATIONS ONLY AND WITH THE PRIOR APPROVAL OF ENGINEER AND SPECIAL INSPECTOR.
12. WHILE SCRUB COAT OR BONDING AGENT IS STILL WET, APPLY PATCHING MORTAR. USING LOW OR HIGH VELOCITY IMPACT OR OTHER APPROVED INTIMATE CONTACT TECHNIQUE.
13. FOR APPLICATIONS WHERE "X" IS GREATER THAN 1-1/2", APPLY PATCHING MORTAR IN LIFTS. SCORE THE SURFACE OF EACH PREVIOUS LIFT TO PRODUCE A ROUGHENED SURFACE FOR THE NEXT LIFT. ALLOW EACH PRECEDING LIFT TO REACH FINAL SET (APPROX. 30-50 MINS). REPEAT STEPS 8 AND 9 FOR EACH LIFT. DO NOT EXCEED 9" IN TOTAL DEPTH (NOTE: THIS STEP IS NOT APPLICABLE TO FORM-AND-CAST REPAIRS.
14. FINISH REPAIR AREA IMMEDIATELY AFTER INITIAL SET. MATCH FINISH OF EXISTING ADJACENT AREAS. ALLOW AREA TO PROPERLY CURE.

NOTE : USE ALL PRODUCTS IN STRICT ACCORDANCE W/ MANUFACTURER'S RECOMMENDATIONS.



* SEE PROCEDURE NOTE No. 6 ABOVE FOR SPLICE LENGTH

** FOR OVERHEAD APPLICATIONS ONLY:
USE BONDING AGENT IN LIEU OF A SCRUB COAT (FLUID PASTE). MIX, HANDLE AND APPLY BONDING AGENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. APPLY FRESH PATCHING MORTAR WHILE BONDING AGENT IS STILL WET OR WIN ACCEPTABLE "OPEN TIME", SEE MANUFACTURER'S WRITTEN RECOMMENDATIONS.

TYPICAL REPAIR DETAIL FOR HORIZONTAL, OVERHEAD AND VERTICAL (SPALLED, DAMAGED, HONEYCOMBED, ETC.) CONCRETE SURFACES (WITH EXPOSED REINFORCEMENT)

1 SR102

N.T.S.

EAST FACADE

EXTENT OF WORK

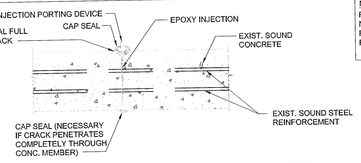
1. CRACKS TO BE REPAIRED ARE INDICATED IN THESE DRAWINGS.
2. DO NOT REPAIR ANY CRACK THAT IS LESS THAN 0.005 INCH AT ITS WIDEST POINT, U.O.N.

STANDARDS:
ASTM C 881-02 "STANDARD SPECIFICATION FOR EPOXY-RESIN-BASED BONDING SYSTEMS FOR CONCRETE."

PROCEDURE:

1. THOROUGHLY CLEAN ALL DUST, DIRT, OIL, GREASE, CHEMICALS, WATER AND OTHER DELETERIOUS MATERIALS FROM AREA OF CRACK TO BE REPAIRED.
2. SCORE FULL LENGTH OF CRACK
3. SET APPROPRIATE INJECTION PORTS. SPACING OF PORTS SHALL EQUAL THICKNESS OF MEMBER BEING INJECTED OR AS OTHERWISE REQUIRED TO ENSURE PROPER INJECTION OF CRACK.
4. SEAL PORTS AND ENTIRE LENGTH OF CRACK (BOTH SIDES OF CRACK IF CRACK PENETRATES COMPLETELY THROUGH CONCRETE MEMBER) BY APPLYING, HIGH - STRENGTH, EPOXY GEL, CONFORMING TO ASTM C 881 TYPES I, II, IV OR V, AND GRADE 3 CLASSES B AND C). APPLY NEATLY AND SMOOTHLY. FOR CONCRETE WHICH IS TO BE EXPOSED TO VIEW, EXTRA CARE MUST BE TAKEN TO KEEP PASTE IN CRACK ONLY (APPLY WITH NARROW-TIPPED, MANUALLY OPERATED CAULKING GUN OR OTHER APPROPRIATE MEANS TO KEEP PASTE OFF THE EXPOSED SURFACES).
5. ALLOW SEAL TO CURE IN ACCORDANCE WITH PRODUCT RECOMMENDATIONS (USUALLY AT LEAST 24 HOURS.)
6. INJECT LOW-VISCOSITY, HIGH-STRENGTH, EPOXY RESIN ADHESIVE CONFORMING TO ASTM C 881 TYPES I, II, IV OR V, AND GRADE 1 CLASSES B AND C USING AUTOMATED INJECTION EQUIPMENT AND STEADY PRESSURE. FOR VERTICAL AND INCLINED CRACKS, COMMENCE INJECTION AT THE LOWEST END OF CRACK AND PROCEED UPWARD. COMPLETELY FILL CRACK WITH ADHESIVE. IF FLOW FROM PORT TO SUCCESSIVE PORTS CANNOT BE ACHEIVED, REPORT TO THE ENGINEER. TEN MINUTES AFTER INITIAL INJECTION HAS BEEN COMPLETED AT THE HIGHER ELEVATION PORT, REINJECT AT THAT PORT UNTIL NO ADDITIONAL ADHESIVE CAN BE INJECTED. FOR ALL TYPES OF CRACKS (VERTICAL, INCLINED & HORIZONTAL), REPEAT THE REINJECTION PROCEDURE UNTIL ALL PORTS REFUSE INJECTION ADHESIVE TEN MINUTES AFTER PREVIOUS INJECTION RESULTED IN THE PORT ACCEPTING ADHESIVE.
7. REMOVE INJECTION PORTS AND PATCH SURFACE. GRIND ANY EXCESS SEALANT, PASTE AND/OR EPOXY ADHESIVE SUCH THAT THE SURFACE IMMEDIATELY ADJACENT AND AROUND THE REPAIRED CRACK IS FLUSH AND SMOOTH. MATCH EXISTING SURFACE TEXTURE IN AREAS WHICH ARE EXPOSED TO VIEW.
8. CLEAN AND REMOVE ALL SPILLS AND LEAKS OF INJECTION ADHESIVE AND STAINS.

NOTE: USE ALL PRODUCTS IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



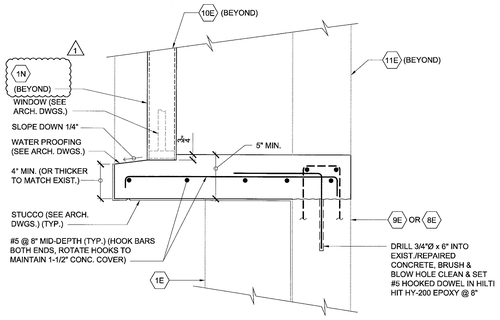
NOTE:
REMOVE EXISTING FINISHES AS NECESSARY TO PERFORM REPAIRS AND REPLACE FINISHES (SEE ARCH. DWGS.)

TYPICAL REPAIR DETAIL FOR EPOXY INJECTION FOR HORIZONTAL AND VERTICAL CONCRETE CRACK

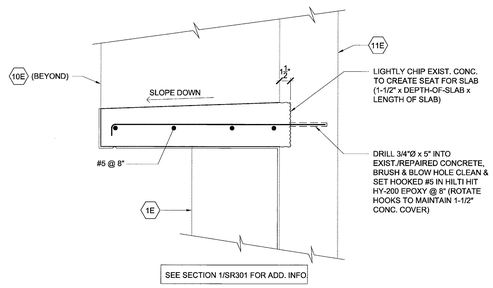
3 SR102

N.T.S.

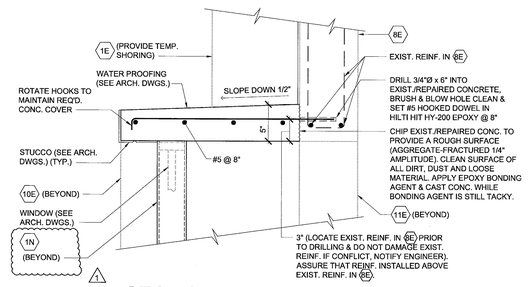
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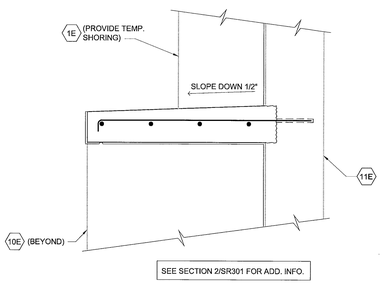
SECTION
1-1/2" = 1'-0"
1 SR301



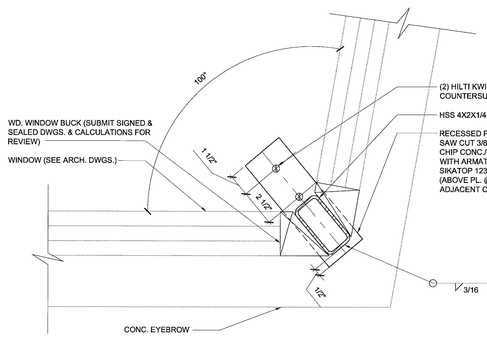
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2 SR301



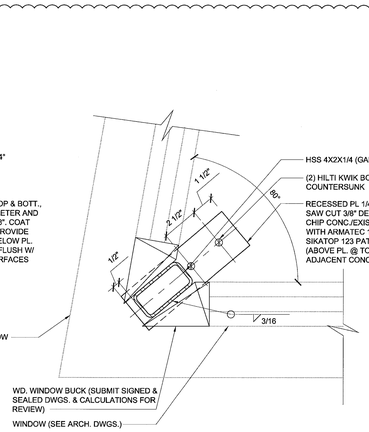
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3 SR301



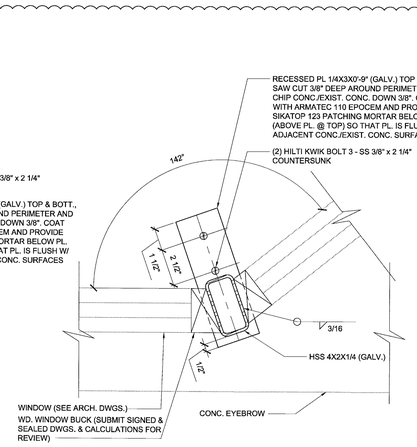
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1-1/2" = 1'-0"
4 SR301



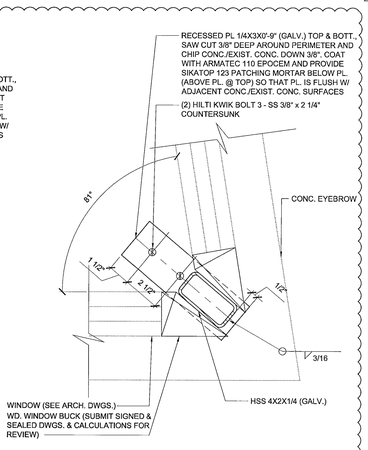
SECTION
3" = 1'-0"
5 SR301



SECTION
3" = 1'-0"
6 SR301



SECTION
3" = 1'-0"
7 SR301



SECTION
3" = 1'-0"
8 SR301

STRUCTURAL DRAWING NOTES:

1S REPAIR SPALLED CONC. AND CORRODED STL. REINFORCEMENT IN ACCORDANCE W/ TYP. REPAIR DETAIL 1 ON SR102.

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3S EPOXY INJECT CRACK IN CONC. IN ACCORDANCE W/ TYP. REPAIR DETAIL 3 ON SR102.

4S REMOVE ALL CORROSION AND CLEAN STEEL SURFACE. PATCH SMALL CORRODED AREAS W/ ADEQUATE EPOXY METAL REPAIR COMPOUND (SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO APPLICATION). REPORT TO ENGINEER IF SEVERE CORROSION ENCOUNTERED.

5S WHERE INDICATED, REMOVE EXIST. CONC. BY CHIPPING SO THAT EXIST. REINFORCEMENT IS RETAINED. LAP SPLICE REINFORCING BARS W/ EXISTING REINFORCING BARS. SEE "REBAR DEVELOPMENT AND LAP SPLICE SCHEDULE FOR CONCRETE" ON SR101.

6S SEAL CRACK IN EXIST. CONCRETE NEATLY W/ KNIFE-GRADE CAULK.

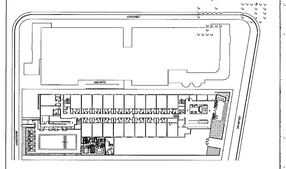
STRUCTURAL DRAWING NOTES - EXISTING CONDITIONS:

1E EXIST. DECORATIVE CONC. RIB
2E EXIST. DECORATIVE CONC. FRAME
3E EXIST. SUCCO
4E EXIST. C.M.U. WALL
5E EXIST. DECORATIVE CORRUGATED PANELS
6E EXIST. DECORATIVE WOOD RIB
7E EXIST. STEEL PIPE COLUMN / MULLION
8E EXIST. CONC. BEAM
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11E EXIST. CONC. COLUMN / TIE COLUMN

1N HSS 4X2X1/4 STEEL TUBE COLUMN/MULLION (GALV.)

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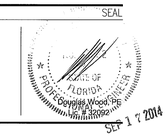
REVISIONS

NO.	DESCRIPTION	ISSUE DATE
1	REVISION 1	9.17.2014

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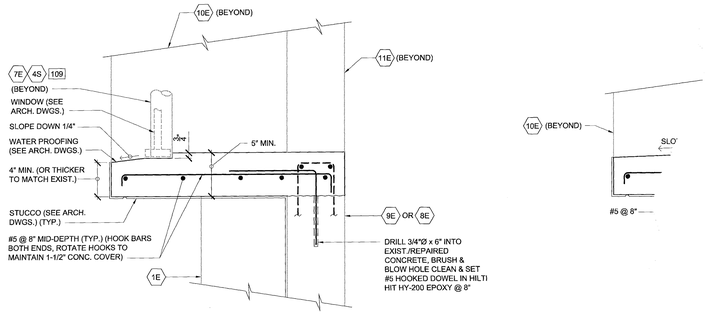
SHEET TITLE

SECTIONS AND DETAILS- EAST FACADE CONCRETE REPAIRS

SHEET NUMBER

SR301

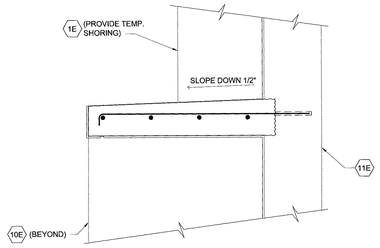
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SECTION

1-1/2" = 1'-0"

1 / SR301

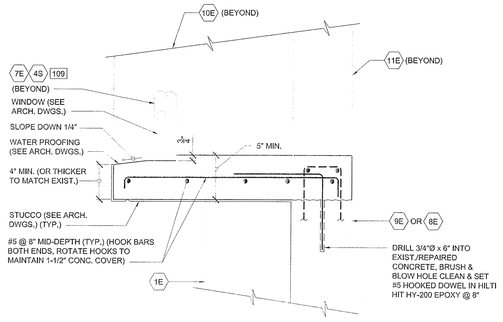


SEE SECTION 2/SR301 FOR ADD. INFO.

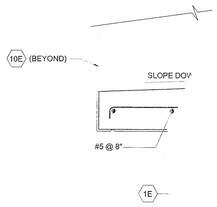
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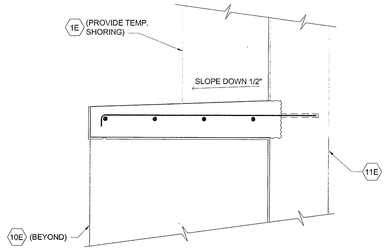
4 / SR301



SECTION
1-1/2" = 1'-0"
1 SR301

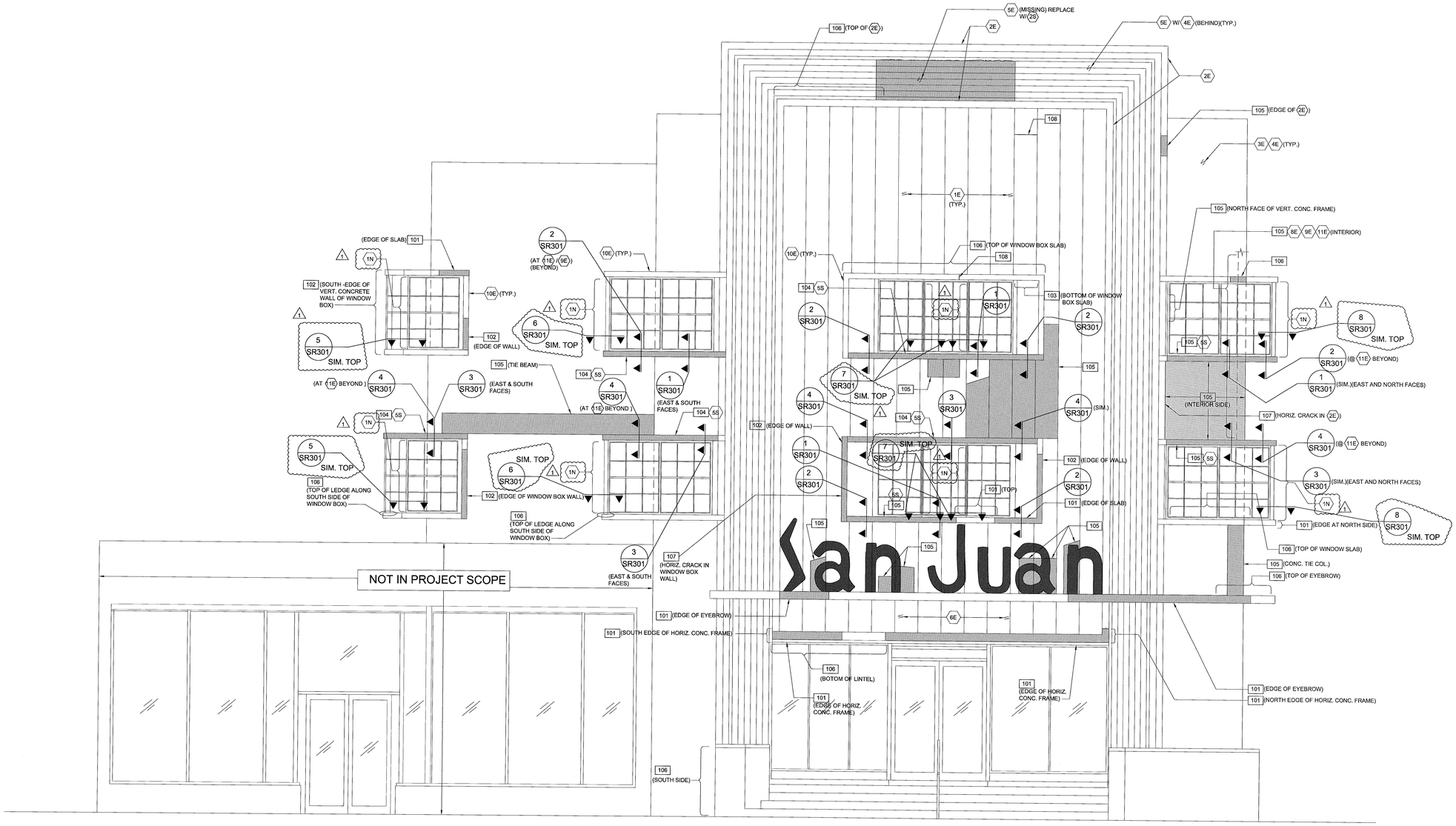


SEC
1-1/2" =



SEE SECTION 2/SR301 FOR ADD. INFO.

SECTION
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4 SR301



STRUCTURAL DRAWING NOTES:

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4S REMOVE ALL CORROSION AND CLEAN STEEL SURFACE. PATCH SMALL CORRODED AREAS W/ ADEQUATE EPOXY METAL REPAIR COMPOUND (SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO APPLICATION). REPORT TO ENGINEER IF SEVERE CORROSION ENCOUNTERED.

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3E EXIST. STUCCO

4E EXIST. C.M.U. WALL

5E EXIST. DECORATIVE CORRUGATED PANELS

6E EXIST. DECORATIVE WOOD RIB

7E EXIST. STEEL PIPE COLUMN / MULLION

8E EXIST. CONC. BEAM

9E EXIST. CONC. WALL

10E EXIST. CONC. WINDOW BOX

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1N HSS 4X2X1/4 STEEL TUBE COLUMN/MULLION (GALV.)

EAST ELEVATION

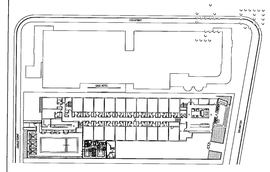
3/8" = 1'-0"

1XX	DENOTES REPAIR TYPE. SEE TABLE ON SR101
XE	DENOTES "STRUCTURAL DRAWING NOTES-EXISTING CONDITIONS" SEE LIST ON THIS SHEET.
XS	DENOTES "STRUCUTRAL DRAWINGS NOTES". SEE LIST ON THIS SHEET.

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REVISIONS

NO.	DESCRIPTION	ISSUE DATE
1	REVISION 1	9.17.2014

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JOB NUMBER: 13073

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ISSUE DATE: 04.21.2014

SCALE: AS SHOWN

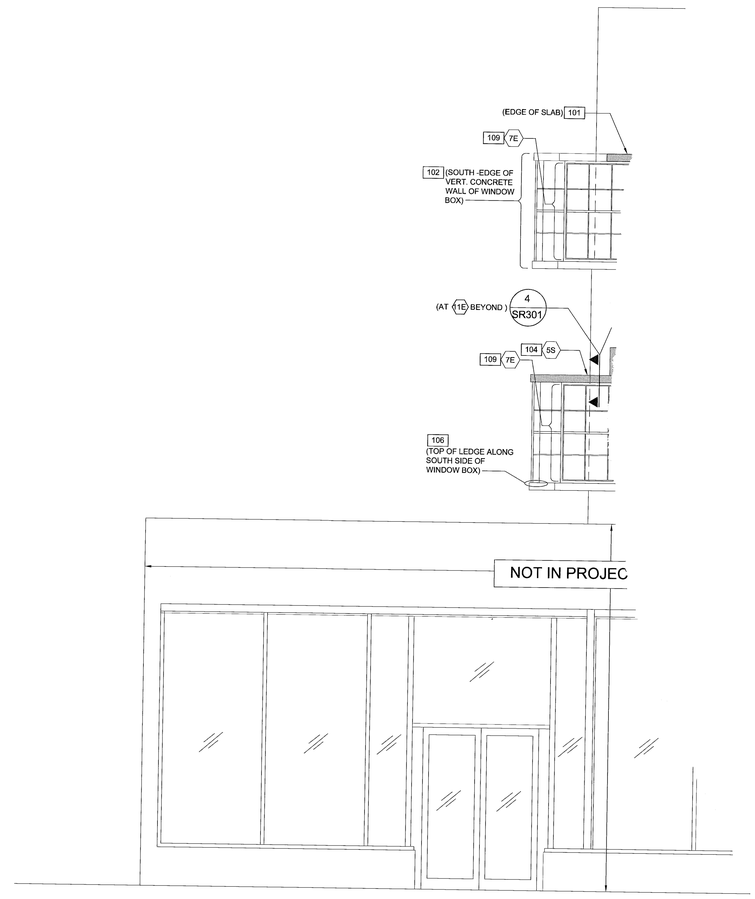
SHEET TITLE

EAST FACADE CONCRETE REPAIRS -EAST ELEVATION

SHEET NUMBER

SR401

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STRUCTURAL DRAWING NOTES:

1S REPAIR SPALLED CONC. AND CORRODED STL. REINFORCEMENT IN ACCORDANCE W/ TYP. REPAIR DETAIL 1 ON SR102.

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5E EXIST. DECORATIVE CORRUGATED PANELS

6E EXIST. DECORATIVE WOOD RIB

7E EXIST. STEEL PIPE COLUMN / MULLION

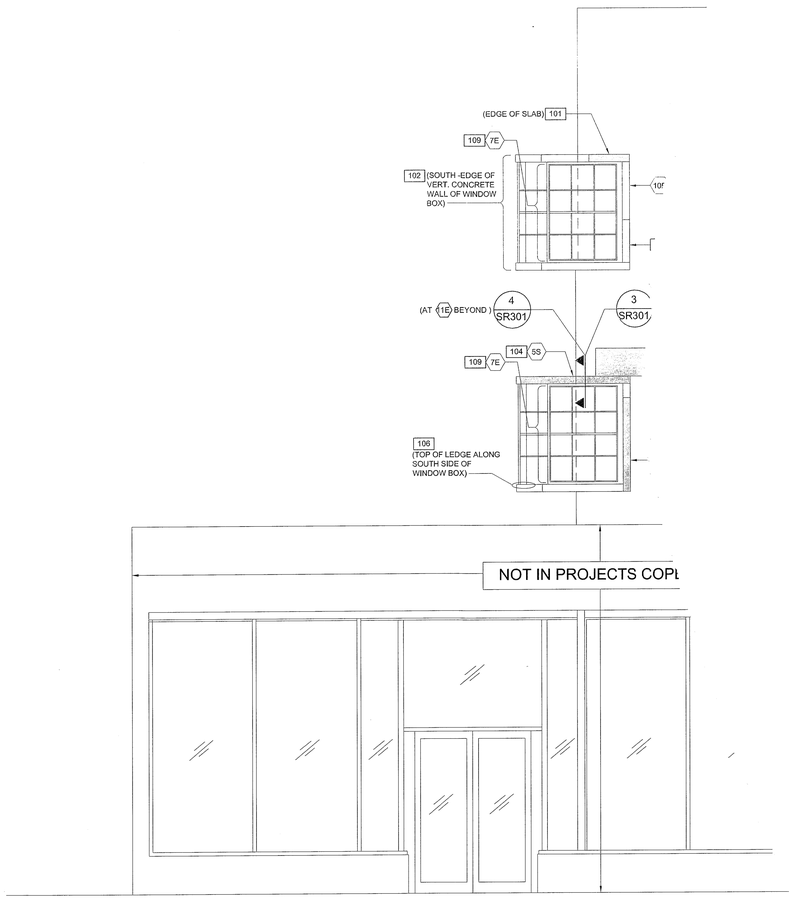
8E EXIST. CONC. BEAM

9E EXIST. CONC. WALL

10E EXIST. CONC. WINDOW BOX

11E EXIST. CONC. COLUMN / TIE COLUMN

L
3/8"



EAST
3/8" = 1'-0"

STRUCTURAL DRAWING NOTES:

1S REPAIR SPALLED CONC. AND CORRODED STL. REINFORCEMENT IN ACCORDANCE W/ TYP. REPAIR DETAIL 1 ON SR102.

2S REPLACE MISSING 5E W/ CORRUGATED OPAQUE, FIBERGLASS (MIN. 12 OZ. PER SQUARE FOOT) PANELS, MATCH CORRUGATION DIMENSIONS TO EXISTING CORRUGATION IN ADJACENT PANELS. OVERLAP ENDS OF EXISTING PANELS MIN. 3 INCHES. OVERLAP HORIZ. JOINT (IF REQUIRED) ONE CORRUGATION. ANCHOR PANEL TO 5E THROUGH ALL PANEL VALLEYS AT 24" O.C. MAX. STAGGER ROWS OF ANCHORS. USE 3/16" DIAM. STAINLESS STEEL TAPCON ANCHORS WITH MIN. 1-1/2" EMBEDMENT INTO 5E. DO NOT FASTEN THROUGH EXISTING CORRUGATED PANELS.

3S EPOXY INJECT CRACK IN CONC. IN ACCORDANCE W/ TYP. REPAIR DETAIL 3 ON SR102.

4S REMOVE ALL CORROSION AND CLEAN STEEL SURFACE. PATCH SMALL CORRODED AREAS W/ ADEQUATE EPOXY METAL REPAIR COMPOUND (SUBMIT PRODUCT DATA FOR APPROVAL PRIOR TO APPLICATION). REPORT TO ENGINEER IF SEVERE CORROSION ENCOUNTERED.

5S WHERE INDICATED, REMOVE EXIST. CONC. BY CHIPPING SO THAT EXIST. REINFORCEMENT IS RETAINED. LAP SPLICE REINFORCING BARS W/ EXISTING REINFORCING BARS. SEE "REBAR DEVELOPMENT AND LAP SPLICE SCHEDULE FOR CONCRETE" ON SR101.

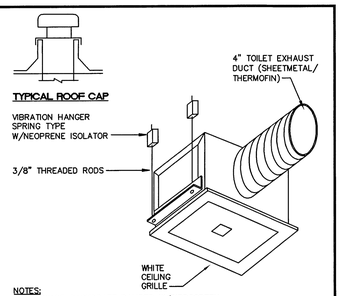
6S SEAL CRACK IN EXIST. CONCRETE NEATLY W/ KNIFE-GRADE CAULK.

STRUCTURAL DRAWING NOTES - EXISTING CONDITIONS:

1E EXIST. DECORATIVE CONC. RIB
2E EXIST. DECORATIVE CONC. FRAME
3E EXIST. SUCCO
4E EXIST. C.M.U. WALL
5E EXIST. DECORATIVE CORRUGATED PANELS
6E EXIST. DECORATIVE WOOD RIB
7E EXIST. STEEL PIPE COLUMN / MULLION
8E EXIST. CONC. BEAM
9E EXIST. CONC. WALL
10E EXIST. CONC. WINDOW BOX
11E EXIST. CONC. COLUMN / TIE COLUMN

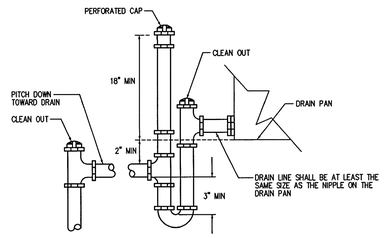
8 MECHANICAL GENERAL NOTES
MP001

1. THE CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL PARTS OF THE BUILDING, ITS CONTENTS AND OCCUPANTS WHEREVER WORK UNDER THIS CONTRACT IS PERFORMED.
2. DEMOLITION SHALL INCLUDE REMOVAL OF EXISTING BUILDING CONSTRUCTION TO EXTENT REQUIRED TO PERFORM CONSTRUCTION ACTIVITIES INDICATED.
3. THE DEMOLITION PROCEDURES SHALL PROVIDE FOR SAFE CONDUCT OF THE WORK, PROTECTION OF PERSONNEL, CAREFUL REMOVAL AND DISPOSITION OF MATERIALS SPECIFIED TO BE SALVAGED, PROTECTION OF PROPERTY TO REMAIN UNDISTURBED, COORDINATION WITH OTHER WORK IN PROGRESS, AND TIMELY DISCONNECTION OF UTILITY SERVICES.
4. EXISTING WORK TO REMAIN SHALL BE PROTECTED FROM DAMAGE. WORK DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO MATCH EXISTING WORK OR WORK INSTALLED UNDER THIS CONTRACT DEPENDING ON CONTRACT REQUIREMENTS.
5. FOR ALL ADDITION INFORMATION REGARDING CONTRACTUAL RESPONSIBILITIES, COORDINATE WITH ARCH. PLANS.
6. EXISTING WORK SHALL BE CUT, DRILLED, ALTERED, REMOVED OR TEMPORARILY REMOVED AND REPLACED FOR PERFORMANCE OF WORK UNDER THE CONTRACT. WORK DEFACED DURING THIS CONTRACT SHALL BE RESTORED TO THE CONDITION AT TIME OF AWARD OF CONTRACT. CUT, ALTER, REMOVE OR TEMPORARILY REMOVE AND REPLACE EXISTING WORK FOR THE INSTALLATION OF MECHANICAL, PLUMBING AND ELECTRICAL WORK AND OTHER CONSTRUCTION.
7. PROPERLY REMOVE AND DISPOSE OF ALL EXISTING FIXTURES AS REQUIRED TO ACCOMMODATE NEW PLAN. REFER TO THE ARCHITECTURAL DEMOLITION PLANS. CONSULT WITH THE OWNER AND OBTAIN OWNERS APPROVAL PRIOR TO DISPOSAL OF REMOVED MATERIAL.
8. REMOVE HVAC SYSTEMS IN THEIR ENTIRETY, INCLUDING, BUT NOT LIMITED TO, SPLIT SYSTEMS, PIPING AS REQUIRED, DUCTWORK, HANGERS, GRILLES/REGISTERS, WIRING, CONTROLS AND ALL OTHER ASSOCIATED APPURTENANCES AS REQUIRED FOR THIS PROJECT.



NOTES:
1.- PROVIDE BACKDRAFT DAMPER W/BIRDSCREEN
2.- FLASH & SEAL WALL AND ROOF CAP
3.- PROVIDE INTERNAL ISOLATION AND SOUND INSULATION
4.- SUPPORT FAN FROM STRUCTURE

9 CABINET EXHAUST FAN DETAIL
MP001
SCALE: N.T.S.



5 TYPICAL CONDENSATE DRAIN TRAP
MP001
SCALE: N.T.S.

10 PLUMBING FIXTURE SCHEDULE
MP001

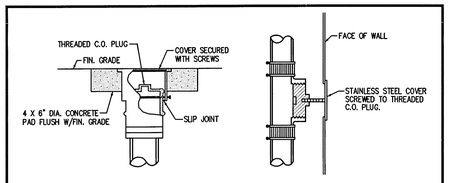
SYMBOL	FIXTURE	DESCRIPTION
WC	WATER CLOSET	WALL MOUNTED, SELECTED BY ARCH./OWNER
LAV	LAVATORY	SELECTED BY ARCH./OWNER
HS	HAND SINK	SELECTED BY ARCH./OWNER
SH	SHOWER	SELECTED BY ARCH./OWNER
UR	URINAL	SELECTED BY ARCH./OWNER (3)
FS	FLOOR SINK	ZURN MODEL Z1750-HP-P-Y-19 OR EQUAL
FD	FLOOR DRAIN	ANCON MODEL FD-100 OR EQUAL PROVIDE 1/2" TRAP PRIMER (5)

FIXTURE	WATER PIPE SIZE	NOMINAL SAN. SIZE	MAXIMUM FLOW RATES
WATER CLOSET (TANK TYPE)	1/2"	4"	1.28 GPF
LAVATORY	1/2"	1 1/4"	0.5 GPM
URINAL	1/2"	2"	0.5 GPM (8)
SINK	1/2"	1 1/2"	1.5 GPM
SHOWER	1/2"	2"	1.5 GPM
FLOOR SINK	---	3"	---
FLOOR DRAIN	1/2"	3"	---

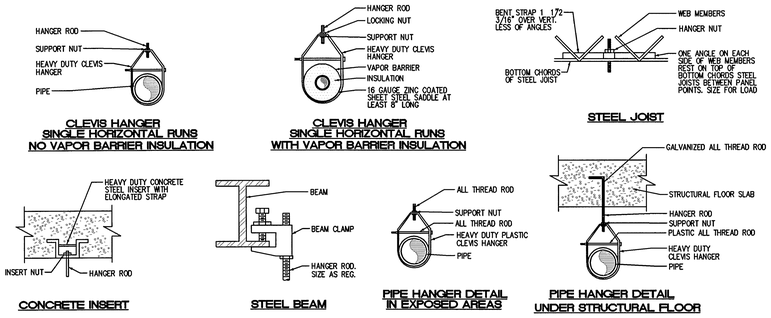
* TRAP INSULATION TO MEET ADA REQUIREMENTS AND COMPLY WITH ASTM E-84, PLUMBEREX MODEL#396 OR EQUAL

NOTE:
1. ALL FIXTURES SHALL COMPLY WITH TABLE 604.4 OF THE F.B.C.-P.
2. ALL WALL HUNG PLUMBING FIXTURES SHALL COMPLY W/ FBC 2318.1.15 OR 2517.5.1.1

NOTE: FOR PLUMBING FIXTURES DETAILED INFORMATION, MANUFACTURER AND MODEL # REFER TO ARCHITECTURAL DRAWINGS.



6 TYPICAL CLEANOUT DETAILS
MP001
SCALE: N.T.S.



7 PIPE SUPPORT DETAILS (FOR SANITARY & WATER PIPING)
MP001
SCALE: N.T.S.

4 PLUMBING GENERAL NOTES
MP001

1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
2. CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
3. ALL MATERIAL SHALL BE NEW.
4. ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE.
5. ALL EXCAVATION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
6. REQUIRED INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK.
7. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION AND TESTS.
8. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
9. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINING CONSTRUCTION.
10. VERIFY LOCATION, SIZE, INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINING CONSTRUCTION. ADVICE ENGINEER OF ANY DISCREPANCIES.
11. WATER PIPING SHALL BE TYPE "L" COPPER FOR 2" AND UNDER AND TYPE "K" COPPER FOR 2-1/2" AND ABOVE. ALL UNDERGROUND WATER PIPING SHALL BE TYPE "K" COPPER.
12. SOIL, WASTE AND VENT PIPING SHALL BE CAST IRON NO HUB 301-72 ABOVE GRADE, PVC SCHEDULE 40 BELOW GRADE, MECHANICAL JOINTS W/S.S. CLAMPS BELOW GRADE.
13. AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE COPPER DRAIN WASTE AND VENT PIPING AND FITTINGS. INSULATE ALL CONDENSATE PIPING .
14. INSULATE ALL HOT WATER, HOT WATER RETURN, RAINWATER, CONDENSATE LINES, EXHAUST LINES ABOVE GRADE AS FOLLOWS: CW, HW SUPPLY AND RETURN - 1" THICK PREFORMED FIBERGLASS PIPE INSULATION W/ FACTORY JACKET. HORIZONTAL STORM DRAIN PIPING - 1 1/2" THICK PREFORMED FIBERGLASS PIPE INSULATION W/ FACTORY JACKET. CONDENSATE PIPING - 3/4" ARMAFLEX PREFORMED. EXHAUST PIPE - 3" THICK CALCIUM SILICATE BLOCK INSULATION W/1200 F. STEVENS CLASS CLOTH WRAP.
15. ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS AND APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
16. FURNISH AND INSTALL APPROVED AIR CHAMBERS, AT EACH PLUMBING FIXTURE AND P.D.I. APPROVED SHOCK ARRESTORS ON MAIN LINES ON RISERS.
17. DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.
18. ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD (HAIR FELT LINING).
19. ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE AND WALL/FLOOR SLEEVES WITH FIRE RATED FOAM, CHASE TECHNOLOGY CORP.- CTC PR-855 OR 3M, CP-25 CAULKING OR 303 PUTTY, TO ACHIEVE SAME RATING AS WALLS OR FLOORS.
20. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
21. PROVIDE 1/2" TRAP PRIMER LINE FOR ALL FLOOR DRAINS FROM THE NEAREST PLUMBING FIXTURE.
22. PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTERS. ACCESS PANELS IN RATED WALLS MUST MAINTAIN THE SAME RATING AND MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
23. PROVIDE CHROME PLATED COMBINATION COVER PLATE AND CLEANOUT PLUG OR ACCESS PANEL FOR ALL WALL CLEANOUTS - ZURN ZS-1469 SERIES C.O. OR APPROVED ACCESS PANEL.
24. NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
25. NO WATER, SANITARY OR DRAINAGE PIPING PERMITTED IN ELECTRICAL OR ELEVATOR EQUIPMENT ROOMS.; WATER STUBBED THRU FOR ELECTRICAL GROUND AND SPRINKLER HEAD AND PIPE W/CONTROL VALVE AS APPROVED BY LOCAL BUILDING AND FIRE DEPARTMENTS.
26. INTERIOR FLOOR CLEANOUTS SHALL BE ZURN ZN1400.
27. ALL CONTROL VALVES SHALL BE TAGGED AND MARKED. A REPRODUCEABLE DIAGRAM LOCATING ALL VALVES SHALL BE PROVIDED FOR OWNER/OPERATOR.
28. ALL FIRE MAINS, HOT & COLD WATER PIPES, HOT WATER RETURN PIPING, STORM DRAIN AND CONDENSATE PIPING AND GAS PIPING SHALL HAVE IDENTIFICATION AND FLOW DIRECTIONS BANDS.
29. CONTRACTOR SHALL KEEP A SET OF AS BUILTS DWG. ON THE JOB SITE AT ALL TIMES AND DELIVER A SET OF UP TO DATE AS-BUILTS TO THE ENGINEER AND OWNER AT THE COMPLETION OF THE PROJECT.

PLUMBING/MECH. INDEX OF DRAWINGS

No	DRAWING	DESCRIPTION	
1	MP001	PLUMBING INDEX, SYMBOL LEGEND AND NOTES.	
2	MP101	FIRST FLOOR PLUMBING / MECHANICAL PLAN	
3	P201	2ND AND 3RD FLOOR PLUMBING PLAN	
4	P301	PLUMBING PIPING ISOMETRICS	

SHOP DRAWING REQUIREMENTS

1. CONTRACTOR SHALL SUBMIT 6 COPIES OF COMPLETED SHOP DRAWINGS, TOGETHER AT ONE TIME AND MUST COME THROUGH THE ARCHITECT. ALL SUBMITTALS SHALL BE MADE WITHIN 30 DAYS OF NOTICE TO PROCEED.
2. ALL SUBMITTALS MUST CLEARLY INDICATE EXACTLY WHICH ITEMS ARE BEING PROPOSED FOR USE. IF NOT, THE SUBMITTAL SHALL BE REJECTED.
3. SUBSTITUTIONS SHALL BE LIMITED TO ONE OF THE ALTERNATES LISTED IN THE CONSTRUCTION DOCUMENTS. PRODUCTS CONSIDERED TO BE EQUAL SHALL BE REVIEWED AND ACCEPTED BY THE ENGINEER, ARCHITECT AND OWNER (10) DAYS PRIOR TO BID DATE.
4. THE CONTRACTOR ASSUMES ALL DESIGN RESPONSIBILITY AND ALL FINANCIAL RISKS FOR PROCEEDING PRIOR TO SHOP DRAWINGS PROCESSING, AND ON ANY ITEM OR WORK THAT IS AT VARIANCE TO THE CONSTRUCTION DOCUMENTS.
5. SHOP DRAWINGS AND SUBMITTALS FOR EACH ITEM SHALL BE REVIEWED NO MORE THAN TWICE. A THIRD SUBMITTAL ON AN ITEM MUST BE ACCOMPANIED BY A PURCHASE ORDER FROM THE CONTRACTOR OR IT SHALL BE REJECTED.
6. CIRCUMSTANCES NECESSITATING A REVISION TO THE PERMITTED DOCUMENTS NOT PROCESSED PRIOR TO INSTALLATION MAY NOT BE ACCEPTED. IF ACCEPTED IT MUST BE LEGIBLE, ACCURATE AND ACCOMPANIED BY A PURCHASE ORDER CHECK FROM THE CONTRACTOR. THE REVISION SHALL BE CHARGED TO THE CONTRACTOR AND DELIVERED TO HIM ON A C.O.D. BASIS.
7. SUBSTITUTIONS FROM THE BASE DESIGN OR VARIATIONS TO THE PERMITTED CONTRACT DOCUMENTS, WHETHER RESULTING FROM PROCESSED SHOP DRAWINGS OR NOT, THAT RESULT IN REQUIREMENTS IN LETTERS OF AUTHORIZATION AND/OR PERMIT CONTRACT DOCUMENT CHANGES MANDATED BY THE AUTHORITY HAVING JURISDICTION WILL NOT BE MADE BY THIS OFFICE UNLESS ACCOMPANIED BY A PURCHASE ORDER FROM THE CONTRACTOR, AND RELEASED ON A C.O.D. BASIS.

1 PLUMBING SYMBOL LEGEND
MP001

SYMBOL		DESCRIPTION
———	S OR W	SANITARY/WASTE PIPING ABOVE SLAB
———	S OR W	SANITARY/WASTE PIPING BELOW SLAB
- - - - - -	SV	SANITARY VENT PIPING
——CD——	CD	CONDENSATE DRAIN
———	CW	COLD WATER PIPING
———	HW	HOT WATER PIPING
——CWF——	CWF	COLD WATER FILTERED
——TW——	TW	TEMPERED WATER
——G——	G	GAS PIPING
	BV	BALL VALVE
	GV, SOV	GATE VALVE, SHUTOFF VALVE
	CH. V	CHECK VALVE
	MV	MIXING VALVE
	HB	HOSE BIBB
S		SHOCK ABSORBER
		STRAINER
	CO	WALL CLEANOUT
	FCO	FLOOR CLEANOUT
	FD	FLOOR DRAIN W/ TRAP PRIMER
M	WM	WATER METER
	(E)	DENOTES "EXISTING TO REMAIN"
	(N)	DENOTES "NEW"
		FLOOR PENETRATION
	VTR	VENT THRU ROOF
	I.D.	INDIRECT DRAIN
	A.A.V.	AIR ADMITTANCE VALVE
	HS	HAND SINK
	I.M.	ICE MAKER
	G.W.	GLASS WASHER

NOTE: NOT ALL SYMBOLS ARE IN USE FOR THIS PROJECT

2 SHOCK ARRESTOR SCHEDULE
MP001

P.D.I. DESIGNATION	MANUF. & MODEL	FIXTURE UNITS	CONNECTION	
A	SIOUX CHIEF 652-A	1-11	1/2"	
B	SIOUX CHIEF 653-B	12-32	3/4"	
C	SIOUX CHIEF 654-C	33-60	1"	

SIOUX CHIEF SHOCK ARRESTORS APPROVED FOR INSTALLATION WITH NO ACCESS DOOR REQUIRED. CONFORMS TO ANSI/ASSE 1010 STANDARDS.

3 SLOPE OF HORIZ. DRAINAGE PIPE
MP001

SIZE (inches)	MINIMUM SLOPE (inch per foot)	
2-1/2 or less	1/4	
3 to 6	1/8	
8 or larger	1/16	

TABLE 704.1 OF THE FLORIDA BUILDING CODE - PLUMBING 2010

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

4 for 9/18/14

DELTA G CONSULTING ENGINEERS, INC.
707 N.E. 3rd AVE., SUITE 200
FORT LAUDERDALE, FL. 33304
(954) 527-1112
CA#0000019181
9/15/14
J. GEORGE SANJUAN, P.E.
FLORIDA LICENSE #46100
DATE: 12/3/2013
PJT. MGR: SHAWN WALKER
PROJECT #: 130818

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.

REVISIONS

NO.	DESCRIPTION	ISSUE DATE
	LOBBY AND POOL	12/03/2013
5	BUILDING DEPT COMMENT	6/11/2014
8	ARCH. REVISION	9/15/2014

PERMIT SET

NORTH SEAL

Jonathan Cardello
Lic. # AR93391

ADD Inc Architecture Interiors Planning
One Biscayne Tower
Suite 1670
Two South
Biscayne Boulevard
Miami, Fl 33131
T. 305.482.8700
F. 305.482.8770
www.addinc.com
Lic. # AA26001507
Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: DECEMBER 3, 2013
SCALE:

SHEET TITLE

MECHANICAL / PLUMBING INDEX, NOTES AND LEGEND

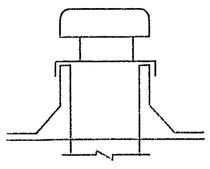
SHEET NUMBER

MP001

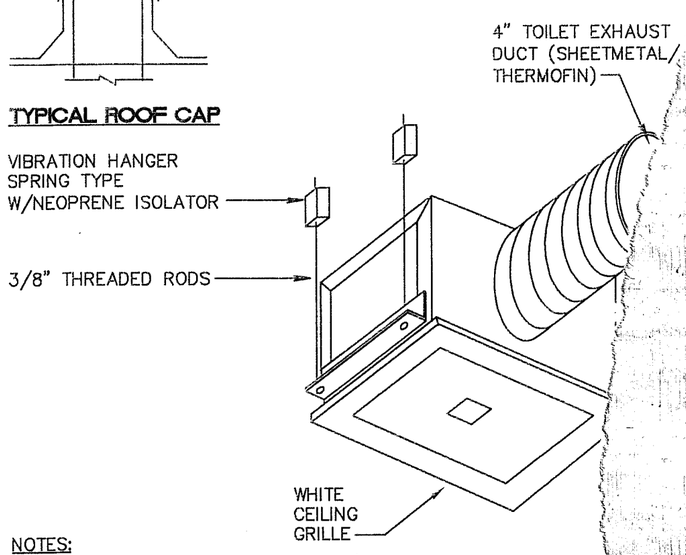
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MP001

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6. EXIST
REMO
DEFAC
AWARI
EXIST
WORK
7. PR
AC
CC
R
8



TYPICAL ROOF CAP



NOTES:
1.– PROVIDE BACKDRAFT DAMPER W/BIRDSCREEN
2.– FLASH & SEAL WALL AND ROOF CAP
3.– PROVIDE INTERNAL ISOLATION AND SOUND INSULATION
4.– SUPPORT FAN FROM STRUCTURE

9 CABINET EXHAUST FAN DETA
MP001

SCALE:

10 PLUMBING FIXTURE SCHEDU
MP001

SYMBOL	FIXTURE	DESCRIPTION
WC	WATER CLOSET	WALL MOUNTED, SELECTED BY ARCH./OWNER
LAV	LAVATORY	SELECTED BY ARCH./OWNER
HS	HAND SINK	SELECTED BY ARCH./OWNER
SH	SHOWER	SELECTED BY ARCH./OWNER
FS	FLOOR SINK	ZURN MODEL Z1750–HP–P–Y–19 OR EQUAL

FIXTURE	WATER PIPE SIZE	NOMINAL SAN. SIZE	MAXIMUM FLOW RATES
WATER CLOSET (TANK TYPE)	1/2"	4"	1.28 GPF
LAVATORY	1/2"	1 1/4"	0.5 GPM
SINK	1/2"	1 1/2"	1.5 GPM
SHOWER	1/2"	2"	1.5 GPM
FLOOR SINK	---	3"	---

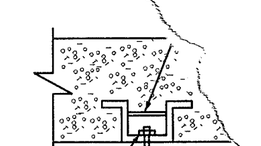
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NOTE:

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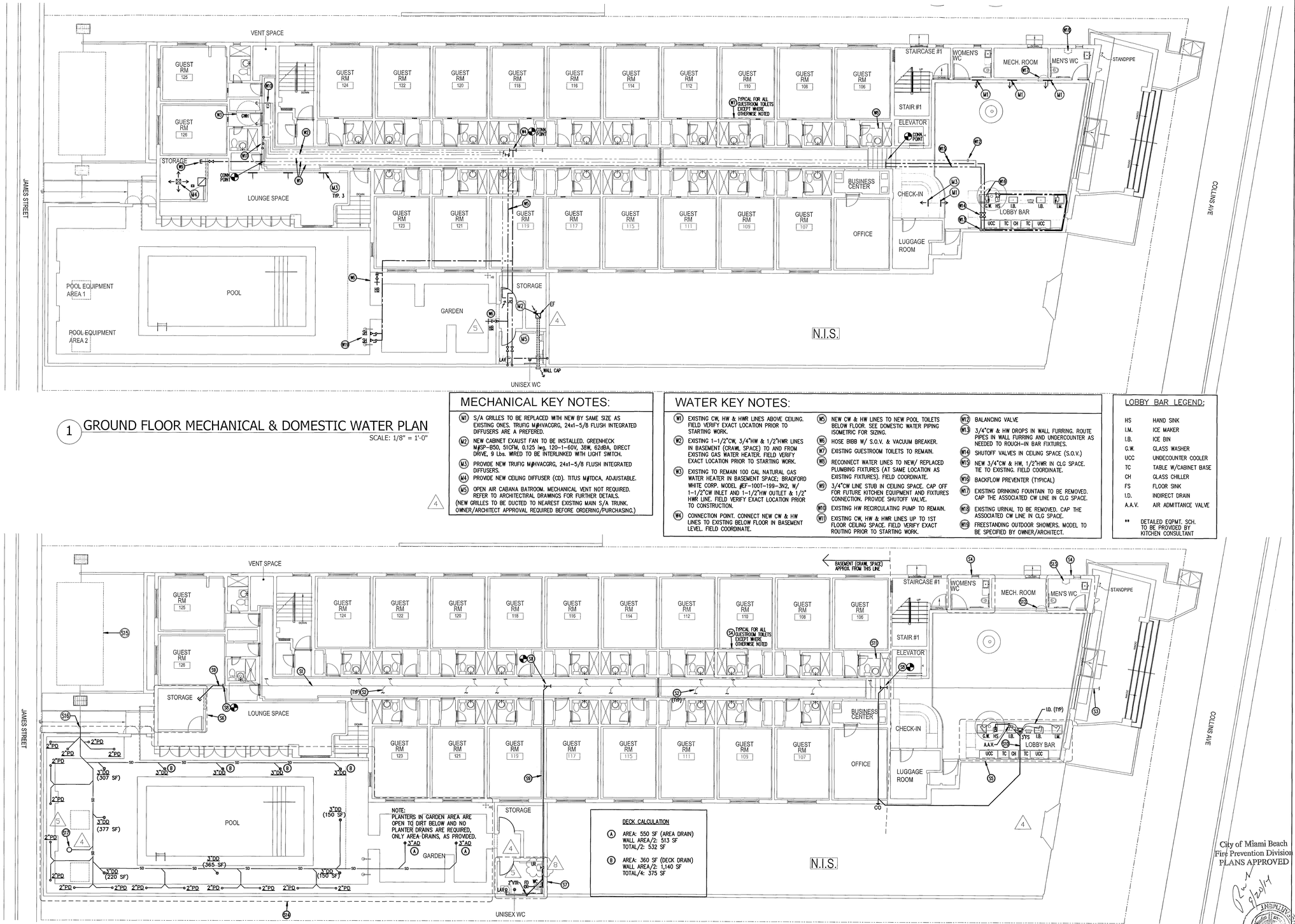
NOTE: FOR PLUMBING FIXTURES DETAILED INFORMATION, MANUFACTURER AND MODEL # REFER TO ARCHITECTURAL DRAWINGS.

NO



CONCRETE INSERT

7 PIPE SUP
MP001



1 GROUND FLOOR MECHANICAL & DOMESTIC WATER PLAN

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

MECHANICAL KEY NOTES:

(M1) S/A GRILLES TO BE REPLACED WITH NEW BY SAME SIZE AS EXISTING ONES. TRUFIG MJHVACGRG, 24x1-5/8 FLUSH INTEGRATED DIFFUSERS ARE A PREFERED.

(M2) NEW CABINET EXAUST FAN TO BE INSTALLED. GREENHECK MJSP-B50, 51CFM, 0.125 iwg, 120-1-60V, 38W, 62dBA, DIRECT DRIVE, 9 Lbs. WIRED TO BE INTERLINKED WITH LIGHT SWITCH.

(M3) PROVIDE NEW TRUFIG MJHVACGRG, 24x1-5/8 FLUSH INTEGRATED DIFFUSERS.

(M4) PROVIDE NEW CEILING DIFFUSER (CD). TITUS MJTDCA, ADJUSTABLE.

(M5) OPEN AIR CABANA BATROOM. MECHANICAL VENT NOT REQUIRED. REFER TO ARCHITECTRAL DRAWINGS FOR FURTHER DETAILS.

(NEW GRILLES TO BE DUCTED TO NEAREST EXISTING MAIN S/A TRUNK. OWNER/ARCHITECT APPROVAL REQUIRED BEFORE ORDERING/PURCHASING.)

WATER KEY NOTES:

(W1) EXISTING CW, HW & HWR LINES ABOVE CEILING. FIELD VERIFY EXACT LOCATION PRIOR TO STARTING WORK.

(W2) EXISTING 1-1/2"CW, 3/4"HW & 1/2"HWR LINES IN BASEMENT (CRAWL SPACE) TO AND FROM EXISTING GAS WATER HEATER. FIELD VERIFY EXACT LOCATION PRIOR TO STARTING WORK.

(W3) EXISTING TO REMAIN 100 GAL NATURAL GAS WATER HEATER IN BASEMENT SPACE; BRADFORD WHITE CORP. MODEL #EF-100T-199-3N2, W/ 1-1/2"CW INLET AND 1-1/2"HW OUTLET & 1/2" HWR LINE. FIELD VERIFY EXACT LOCATION PRIOR TO CONSTRUCTION.

(W4) CONNECTION POINT. CONNECT NEW CW & HW LINES TO EXISTING BELOW FLOOR IN BASEMENT LEVEL. FIELD COORDINATE.

(W5) NEW CW & HW LINES TO NEW POOL TOILETS BELOW FLOOR. SEE DOMESTIC WATER PIPING ISOMETRIC FOR SIZING.

(W6) HOSE BIBB W/ S.O.V. & VACUUM BREAKER.

(W7) EXISTING GUESTROOM TOILETS TO REMAIN.

(W8) RECONNECT WATER LINES TO NEW/ REPLACED PLUMBING FIXTURES (AT SAME LOCATION AS EXISTING FIXTURES). FIELD COORDINATE.

(W9) 3/4"CW LINE STUB IN CEILING SPACE. CAP OFF FOR FUTURE KITCHEN EQUIPMENT AND FIXTURES CONNECTION. PROVIDE SHUTOFF VALVE.

(W10) EXISTING HW RECIRCULATING PUMP TO REMAIN.

(W11) EXISTING CW, HW & HWR LINES UP TO 1ST FLOOR CEILING SPACE. FIELD VERIFY EXACT ROUTING PRIOR TO STARTING WORK.

(W12) BALANCING VALVE

(W13) 3/4"CW & HW DROPS IN WALL FURRING. ROUTE PIPES IN WALL FURRING AND UNDERCOUNTER AS NEEDED TO ROUGH-IN BAR FIXTURES.

(W14) SHUTOFF VALVES IN CEILING SPACE (S.O.V.)

(W15) NEW 3/4"CW & HW, 1/2"HWR IN CLG SPACE. TIE TO EXISTING. FIELD COORDINATE.

(W16) BACKFLOW PREVENTER (TYPICAL)

(W17) EXISTING DRINKING FOUNTAIN TO BE REMOVED. CAP THE ASSOCIATED CW LINE IN CLG SPACE.

(W18) EXISTING URINAL TO BE REMOVED. CAP THE ASSOCIATED CW LINE IN CLG SPACE.

(W19) FREESTANDING OUTDOOR SHOWERS. MODEL TO BE SPECIFIED BY OWNER/ARCHITECT.

LOBBY BAR LEGEND:

HS	HAND SINK
I.M.	ICE MAKER
I.B.	ICE BIN
G.W.	GLASS WASHER
UCC	UNDECOUNTER COOLER
TC	TABLE W/CABINET BASE
CH	GLASS CHILLER
FS	FLOOR SINK
I.D.	INDIRECT DRAIN
A.A.V.	AIR ADMITTANCE VALVE

** DETAILED EQPMT. SCH. TO BE PROVIDED BY KITCHEN CONSULTANT

2 FIRST FLOOR SANITARY PLAN

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

DRAWING NOTES:

1-ALL HORIZONTAL SANITARY PIPING 3" AND LARGER SHALL SLOPE AT 1/8 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE. ALL PIPING 2" AND SMALLER SHALL SLOPE AT 1/4 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.

2-ALL INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP OR AIR BREAK (SEE FBC - PLUMBING SECTION 802.2.1 & 802.2.2) INTO A WASTE RECEPTOR. WASTE RECEPTOR SHALL BE TRAPPED AND VENTED AND SHALL CONNECT TO THE BUILDING DRAINAGE SYSTEM. ALL INDIRECT WASTE PIPING THAT EXCEEDS 2 FEET IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 4 FEET IN TOTAL, SHALL BE TRAPPED.

3-ROUTE ALL NEW SANITARY LINES AWAY FROM EXISTING STRUCTURAL FOOTINGS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

4-CONTRACTOR SHALL FIELD VERIFY EXISTING SANITARY INVERT ELEVATION AT PROPOSED POINTS OF CONNECTION PRIOR TO CONSTRUCTION. NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCY.

5-ALL UNDER SLAB SANITARY WASTE LINES SHOWN LAYOUT MARKED AS EXISTING IS APPROXIMATE AND NEEDS TO BE VERIFIED PRIOR TO CONSTRUCTION. CONTRACTOR TO VERIFY AND CONFIRM ALL UNDERGROUND UTILITIES BEFORE STARTING WORK AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCY.

6-INSULATE PER A.D.A. ALL EXPOSED HANDICAP LAVATORIES DRAIN PIPING AND HOT & COLD STOP AND SUPPLIES. COVERS SHALL BE SOFT, REMOVABLE AND UPC APPROVED. MANUFACTURE: PLUMBEREX HANDY-SHIELD OR PRO-SERIES.

7-RECONNECT NEW WATER PIPING TO EXISTING PIPING ABOVE IN EXISTING CEILING SPACE. FIELD COORDINATE EXACT LOCATION OF CONNECTION POINT PRIOR TO START CONSTRUCTION.

SANITARY KEY NOTES:

(S1) EXISTING 4" SANITARY LINE IN CRAWL SPACE. FIELD VERIFY EXACT LOCATION PRIOR TO STARTING WORK.

(S2) EXISTING SANITARY BRANCHES FROM GUESTROOM BATHROOMS (TYPICAL).

(S3) 4" UNDERGROUND SANITARY LINE TO CITY SEWER. SEE CIVIL DRAWINGS FOR CONT.

(S4) EXISTING TOILETS TO REMAIN.

(S5) NEW LOBBY BAR. DETAILED EQUIPMENT SCHEDULE TO BE PROVIDED AT LATER TIME.

(S6) NEW KITCHEN LOCATED IN AREA OF DEMOLISHED TOILET ROOM. CAP-OFF NEW 3" SAN. LINE BELOW SLAB FOR FUTURE USE. DETAILED EQUIPMENT SCHEDULE TO BE PROVIDED BY KITCHEN CONSULTANT.

(S7) NEW POOL BATHROOM. ALL NEW PLUMBING PIPING TO BE PROVIDED IN BASEMENT LEVEL.

(S8) SANITARY LINE CONNECTION POINTS. FIELD COORDINATE EXACT LOCATION.

(S9) NEW 4" SANITARY LINE. TIE TO EXISTING 6" SANITARY LINE. FIELD COORDINATE.

(S10) NEW 3" SANITARY LINE FROM LOBBY BAR. TIE TO EXISTING 4" SANITARY LINE. ROUTE PIPE AS SHOWN (BYPASS) TO CONNECT WITHIN CRAWL SPACE IN ORDER TO MINIMIZE TRENCHING AS MUCH AS POSSIBLE. FIELD COORDINATE (NO TRENCHING IN LOBBY AREA).

(S11) REPLACE EXISTING PLUMBING FIXTURES BY NEW, AT SAME LOCATION. RECONNECT PLUMBING LINES AS NEDED.

(S12) EXISTING DRINKING FOUNTAIN TO BE REMOVED. CAP THE ASSOCIATED SANITARY LINE IN WALL.

(S13) EXISTING URINAL TO BE REMOVED. CAP THE ASSOCIATED SANITARY LINE IN WALL.

(S14) REFER TO POOL CONSULTANT DRAWINGS FOR SLOPES AT POOL DECK AREA, POOL EQUIPMENT AND POOL DETAILS.

(S15) EXFILTRATION TANK REFER TO CIVIL ENGINEERING DRAWINGS FOR DETAILS.

(S16) CONNECT 6" STORMDRAIN LINE @ 1/8"/FT (4,133 S.F.) TO 12" STORMDRAIN LINE. REFER TO CIVIL DRAWINGS FOR SIZE AND EXACT LOCATION.

(S17) 12" COLLAR (BY POOL CONTRACTOR) TO RECEIVE 2" PIPE WITH POOL WASTE DISPOSAL FROM SUMP PUMP LOCATED WITHIN POOL EQUIPMENT ROOM. PROVIDE MIN 2D AIR GAP ON DISCHARGE POINT OVER COLLAR. REFER TO POOL CONSULTANT DWG SP-1.07 FOR PUMP SPECIFICATION AND DETAILS. 2" WASTE LINE EXACT ROUTING TO BE FIELD COORDINATED.

City of Miami Beach
Fire Prevention Division
PLANS APPROVED
4/18/14

DELTA G CONSULTING ENGINEERS, INC.
707 N.E. 3rd AVE., SUITE 200
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CA#0000181
PJT. MGR: SHAWN WALKER
PROJECT #: 130816
GEORGE SANJUAN, P.E.
FLORIDA LICENSE #46100
DATE: 12/3/2013

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.

REVISIONS

NO.	DESCRIPTION	ISSUE DATE
	LOBBY AND POOL	12/03/2013
4	FIELD COORDINATION	5/23/2014
5	BUILDING DEPT COMMENT	6/11/2014
6	BUILDING DEPT. COMMENT	7/11/2014
7	BUILDING DEPT. COMMENT	7/17/2014
8	ARCH. REVISION	9/15/2014

PERMIT SET

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Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: DECEMBER 3, 2013
SCALE:

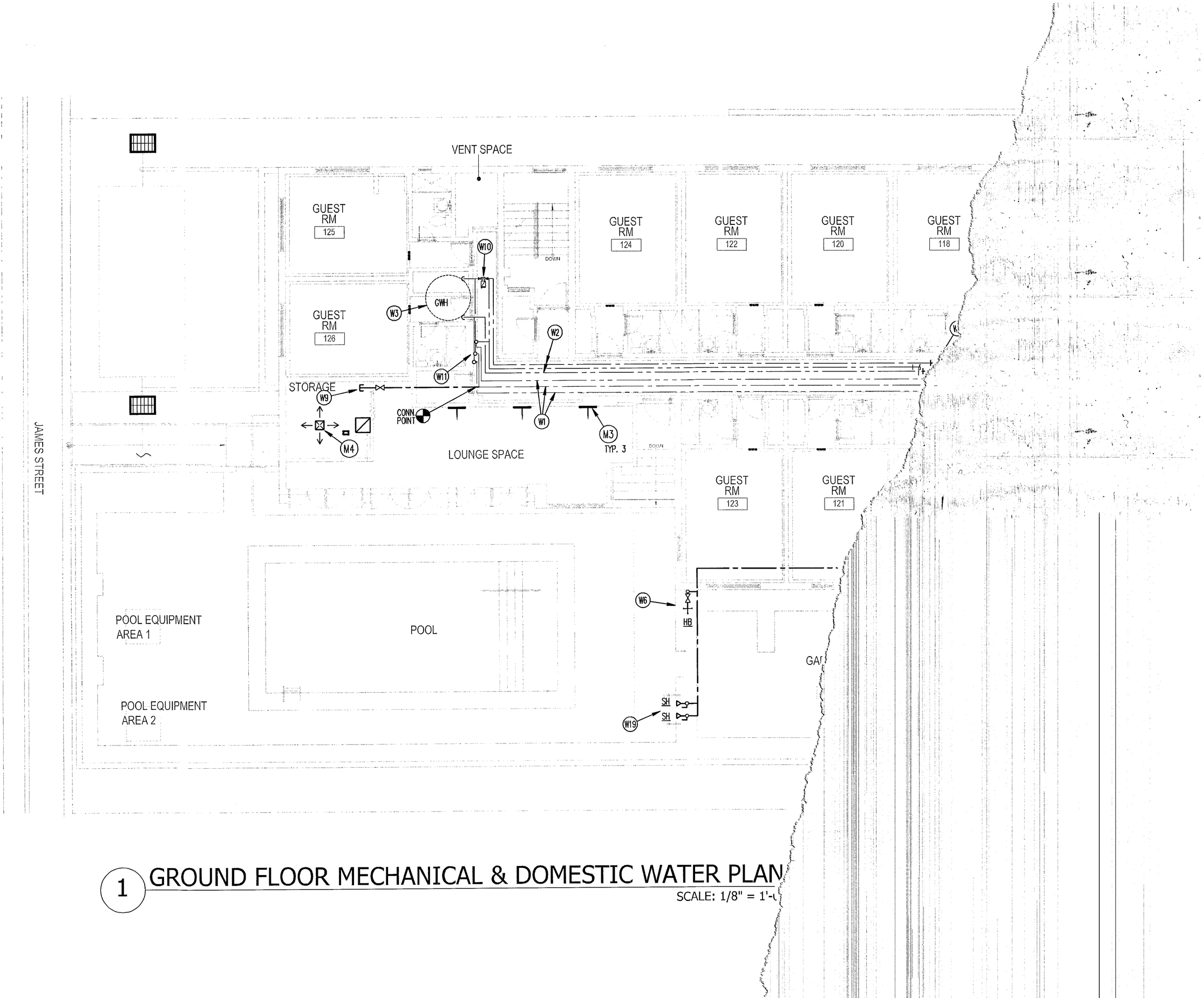
SHEET TITLE

FIRST FLOOR MECHANICAL/ PLUMBING FLOOR PLANS

SHEET NUMBER

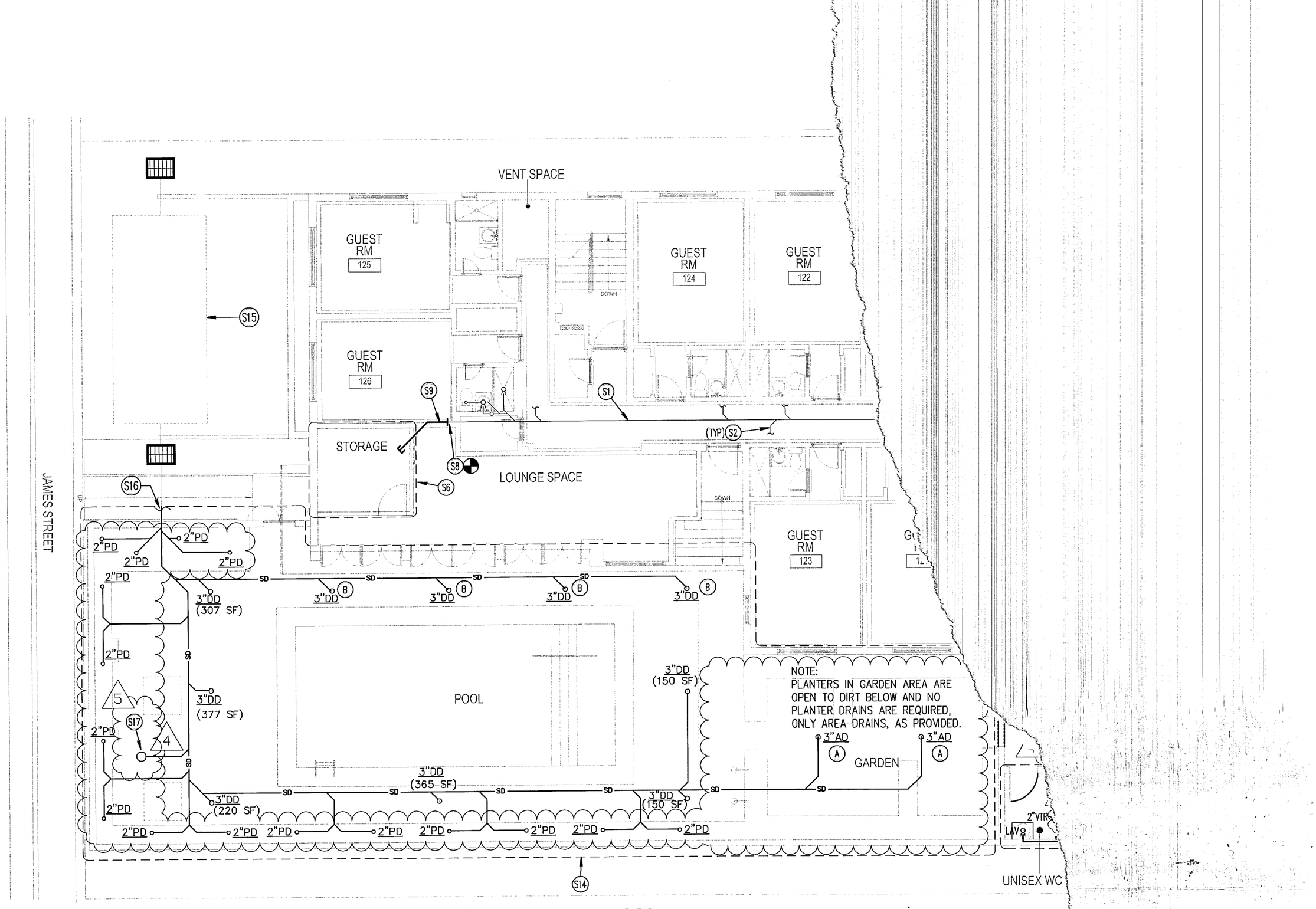
MP101

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1 GROUND FLOOR MECHANICAL & DOMESTIC WATER PLAN

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



2 FIRST FLOOR SANITARY PLAN

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

DRAWING NOTES:

1–ALL HORIZONTAL SANITARY PIPING 3" AND LARGER SHALL SLOPE AT 1/8 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE. ALL PIPING 2" AND SMALLER SHALL SLOPE AT 1/4 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.

2–ALL INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP OR AIR BREAK (SEE FBC – PLUMBING SECTION 802.2.1 & 802.2.2) INTO A WASTE RECEPTOR. WASTE RECEPTOR SHALL BE TRAPPED AND VENTED AND SHALL CONNECT TO THE BUILDING DRAINAGE SYSTEM. ALL INDIRECT WASTE PIPING THAT EXCEEDS 2 FEET IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 4 FEET IN TOTAL, SHALL BE TRAPPED.

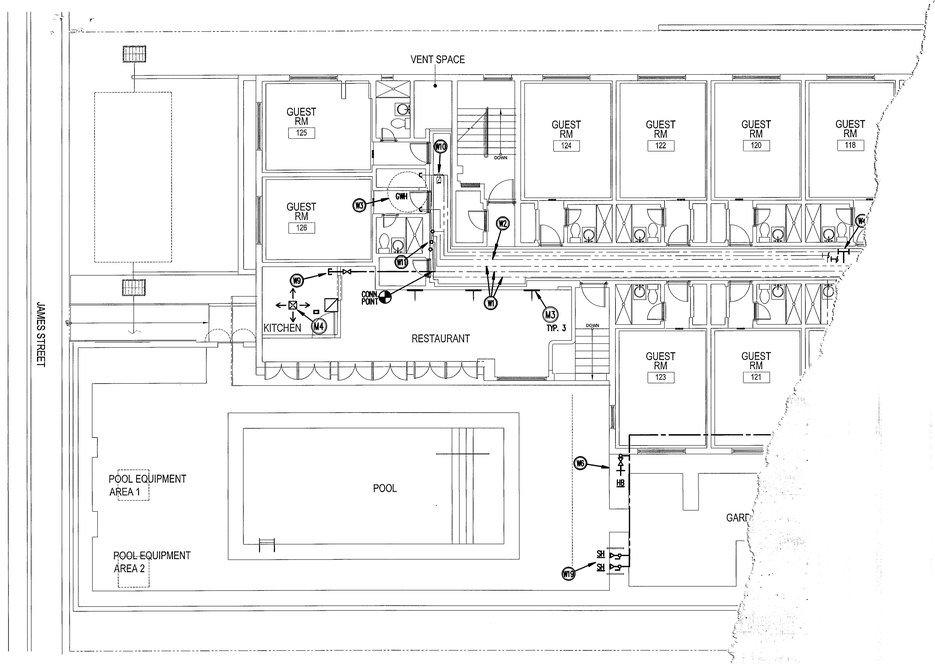
3–ROUTE ALL NEW SANITARY LINES AWAY FROM EXISTING STRUCTURAL FOOTINGS. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

4–CONTRACTOR SHALL FI
ELEVATION AT PROPOSED
CONSTRUCTION. NOTIFY EN

5–ALL UNDER SLAB SANI
EXISTING IS APPROXIMATE
CONSTRUCTION. CONTRAC
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ANY DISCREPANCY.

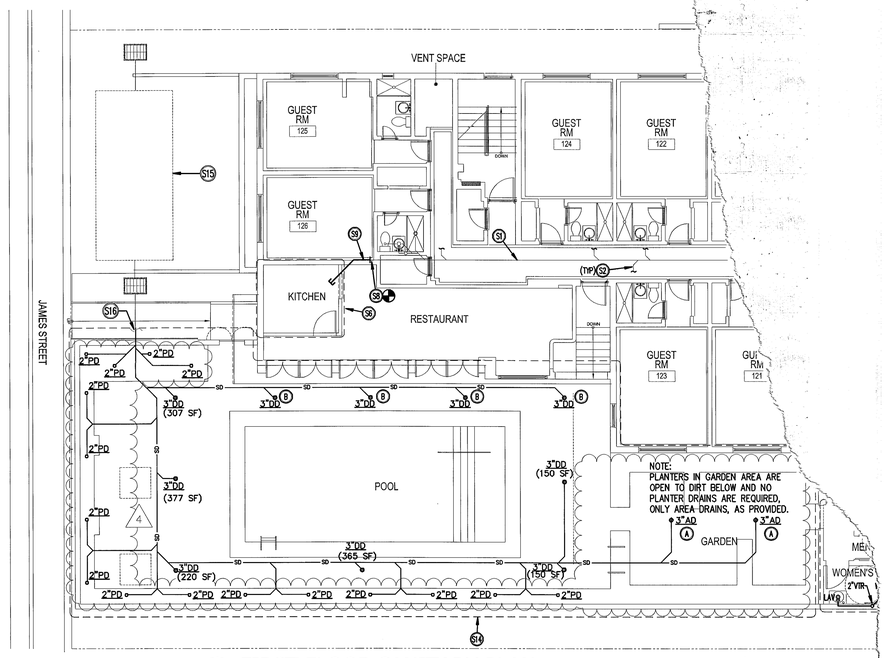
6–INSULATE PER A.D.A. ALL
PIPING AND HOT & COLD STOP
REMOVABLE AND UPC APPROVED.
HANDY–SHIELD OR PRO–SERIES.

7–RECONNECT NEW WATER PIPING TO EX
CEILING SPACE. FIELD COORDINATE EXACT
POINT PRIOR TO START CONSTRUCTION.



1 GROUND FLOOR MECHANICAL & DOMESTIC WATER PLAN

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



2 FIRST FLOOR SANITARY PLAN

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

DRAWING NOTES:

1–ALL HORIZONTAL SANITARY PIPING 3" AND LARGER SHALL SLOPE AT 1/8 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE. ALL PIPING 2" AND SMALLER SHALL SLOPE AT 1/4 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.

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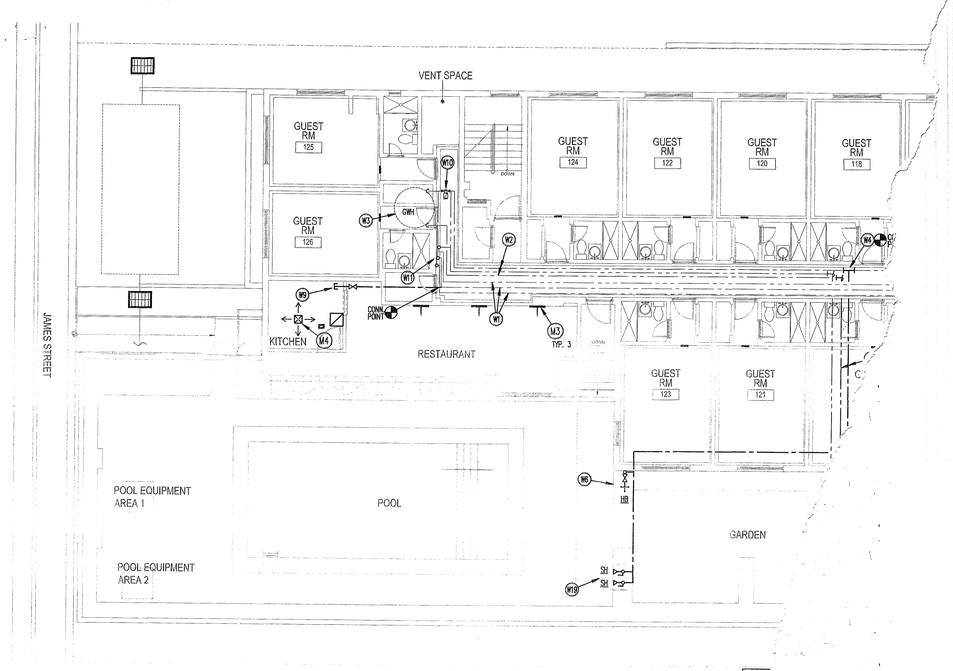
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4–CONTRACTOR SHALL FIELL ELEVATION AT PROPOSED P CONSTRUCTION. NOTIFY ENG

5–ALL UNDER SLAB SANITA EXISTING IS APPROXIMATE CONSTRUCTION. CONTRACTO UTILITIES BEFORE STARTING ANY DISCREPANCY.

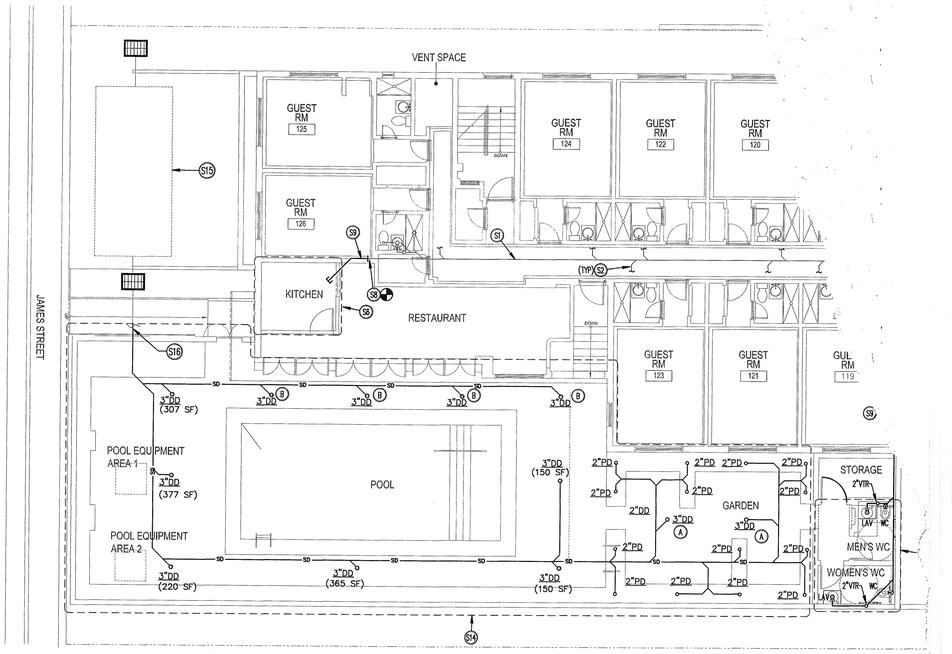
6–INSULATE PER A.D.A. ALL E PIPING AND HOT & COLD STOP REMOVABLE AND UPC APPROVED. HANDY–SHIELD OR PRO–SERIES.

7–RECONNECT NEW WATER PIPING TO EXIS CEILING SPACE. FIELD COORDINATE EXACT L POINT PRIOR TO START CONSTRUCTION.



1 GROUND FLOOR MECHANICAL & DOMESTIC WATER PLAN

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



2 FIRST FLOOR SANITARY PLAN

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

DRAWING NOTES:

1–ALL HORIZONTAL SANITARY PIPING 3" AND LARGER SHALL SLOPE AT 1/8 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE. ALL PIPING 2" AND SMALLER SHALL SLOPE AT 1/4 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.

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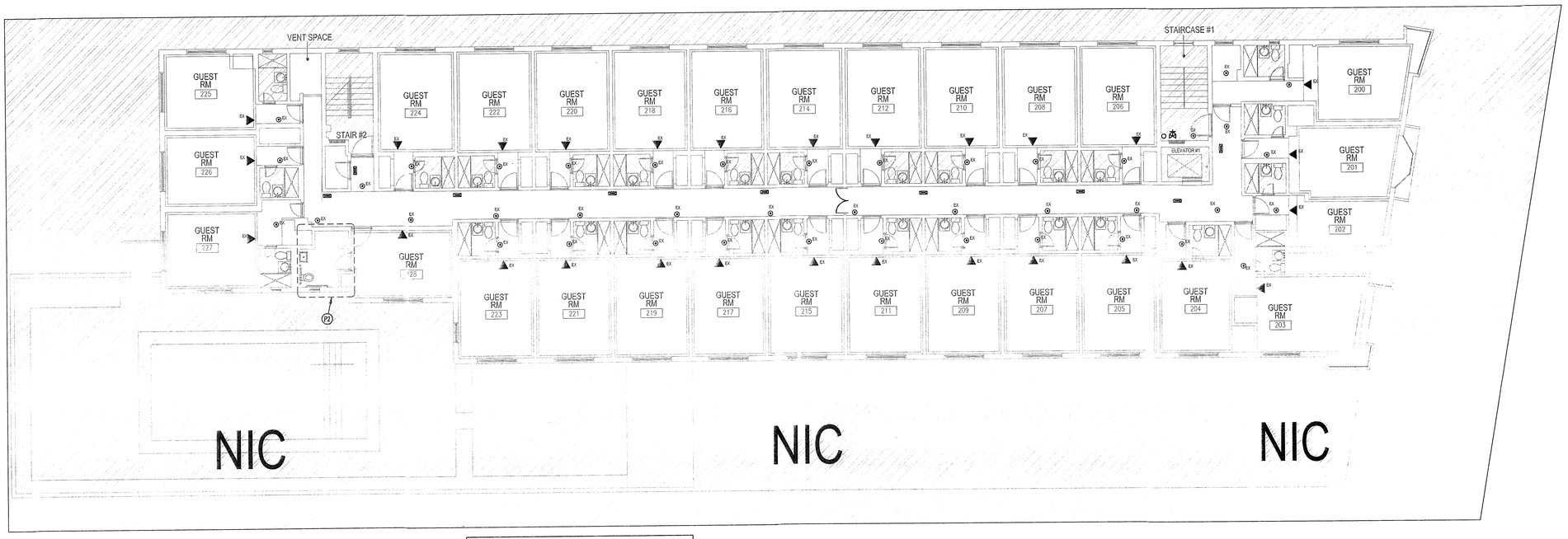
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4–CONTRACTOR SHALL FIELD VERIFY EXIS ELEVATION AT PROPOSED POINTS OF CON CONSTRUCTION. NOTIFY ENGINEER/ARCHIT

5–ALL UNDER SLAB SANITARY WASTE LINE EXISTING IS APPROXIMATE AND NEEDS TO BE CONSTRUCTION. CONTRACTOR TO VERIFY AND UTILITIES BEFORE STARTING WORK AND NOTIFY A ANY DISCREPANCY.

6–INSULATE PER A.D.A. ALL EXPOSED HANDICAP L PIPING AND HOT & COLD STOP AND SUPPLIES. COV REMOVABLE AND UPC APPROVED. MANUFACTURE HANDY–SHIELD OR PRO–SERIES.

7–RECONNECT NEW WATER PIPING TO EXISTING PIPIN CEILING SPACE. FIELD COORDINATE EXACT LOCATION O POINT PRIOR TO START CONSTRUCTION.



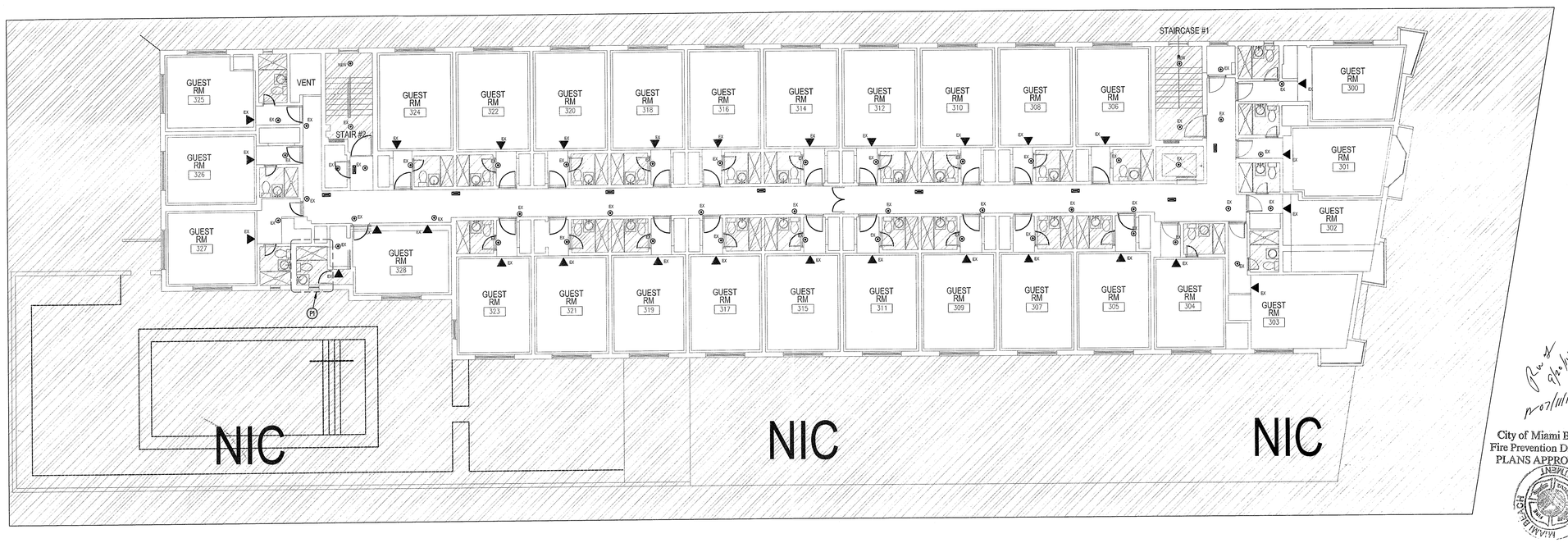
1 SECOND FLOOR PLUMBING PLAN

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

PLUMBING KEY NOTES:

(P1) REPLACE EXISTING PLUMBING FIXTURES WITHIN GUESTROOM TOILET BY NEW FIXTURES AT SAME LOCATION. RECONNECT PLUMBING LINES AS NEEDED.

(P2) REPLACE EXISTING PLUMBING FIXTURES WITHIN GUESTROOM TOILET BY NEW. RELOCATE FIXTURES SLIGHTLY TO MATCH ADA REQUIREMENTS. EXTEND AND ADJUST PLUMBING LINES TO ROUGH-IN NEW LOCATION. FIELD COORDINATE.



2 THISRD FLOOR PLUMBING PLAN

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

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

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PJT. MGR: SHAWN WALKER
PROJECT #: 130818
GEORGE SANJUAN, P.E.
FLORIDA LICENSE #46100
DATE: 12/3/2013

SAN JUAN HOTEL
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MIAMI BEACH, FL

KEYPLAN N.T.S.

REVISIONS

NO.	DESCRIPTION	ISSUE DATE
	LOBBY AND POOL	12/03/2013

PERMIT SET

NORTH SEAL

5.6.14
Jonathan Cardello
Lic. # AR93391

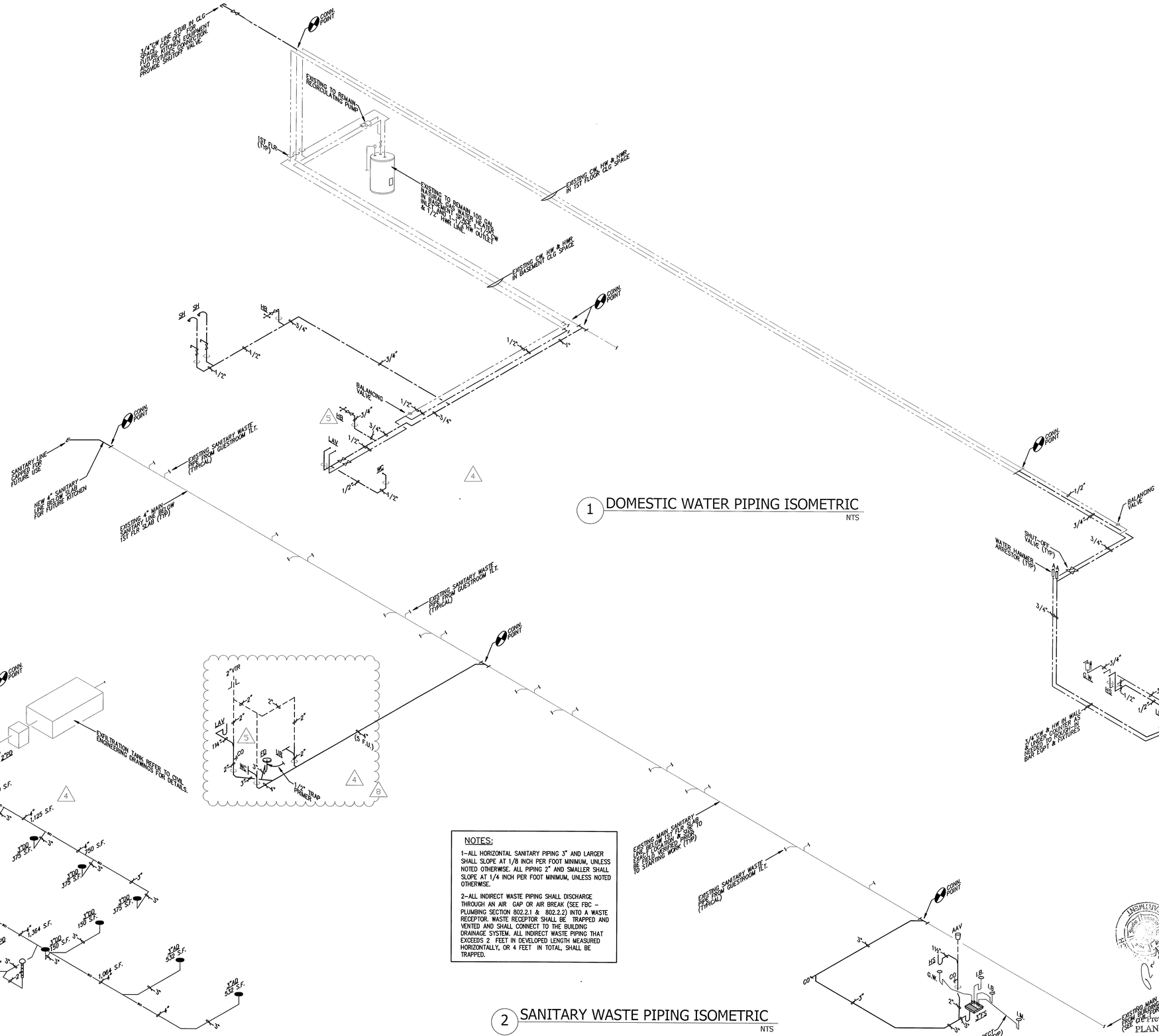
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JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: DECEMBER 3, 2013
SCALE:

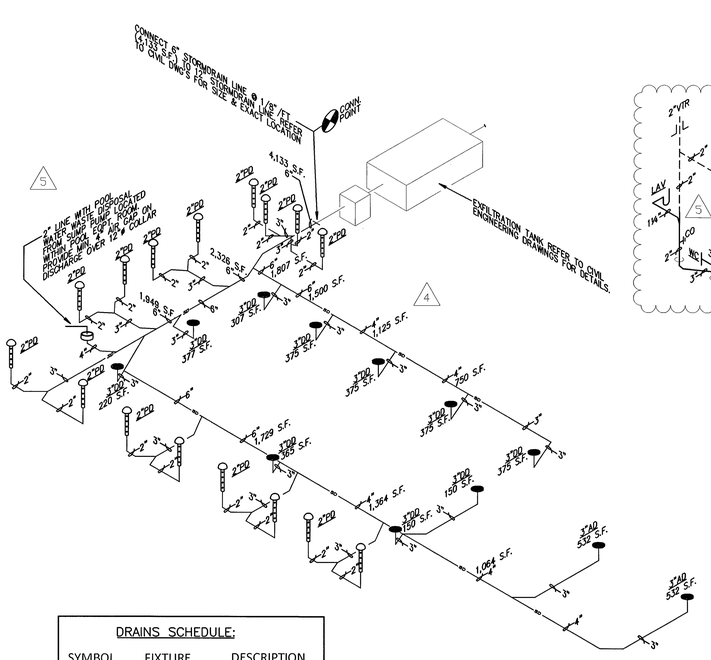
SHEET TITLE
SECOND & THIRD FLOORS PLUMBING PLANS

SHEET NUMBER
P201

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1 DOMESTIC WATER PIPING ISOMETRIC
NTS



DRAINS SCHEDULE:		
SYMBOL	FIXTURE	DESCRIPTION
PD	PLANTER DRAIN	2" ZURN MODEL # Z350
DD	DECK DRAIN	3" ZURN MODEL # Z531
AD	AREA DRAIN	3" ZURN MODEL # Z531

3 STORM & PLANTER DRAINAGE PIPING ISOMETRIC
NTS

NOTES:

1–ALL HORIZONTAL SANITARY PIPING 3" AND LARGER SHALL SLOPE AT 1/8 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE. ALL PIPING 2" AND SMALLER SHALL SLOPE AT 1/4 INCH PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.

2–ALL INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP OR AIR BREAK (SEE FBC – PLUMBING SECTION 802.2.1 & 802.2.2) INTO A WASTE RECEPTOR. WASTE RECEPTOR SHALL BE TRAPPED AND VENTED AND SHALL CONNECT TO THE BUILDING DRAINAGE SYSTEM. ALL INDIRECT WASTE PIPING THAT EXCEEDS 2 FEET IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 4 FEET IN TOTAL, SHALL BE TRAPPED.

2 SANITARY WASTE PIPING ISOMETRIC
NTS

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CA#0000818
P.M. MGR: SHAWN WALKER
PROJECT #: 130818
GEORGE SANJUAN, P.E.
FLORIDA LICENSE #46100
DATE: 12/3/2013

Reviewed for Code Compliance
Miami Beach Fire Prevention Division
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.

REVISIONS

NO.	DESCRIPTION	ISSUE DATE
	LOBBY AND POOL	12/03/2013
4	FIELD COORDINATION	5/23/2014
5	BUILDING DEPT COMMENT	6/11/2014
8	ARCH. REVISION	9/15/2014

PERMIT SET

NORTH SEAL

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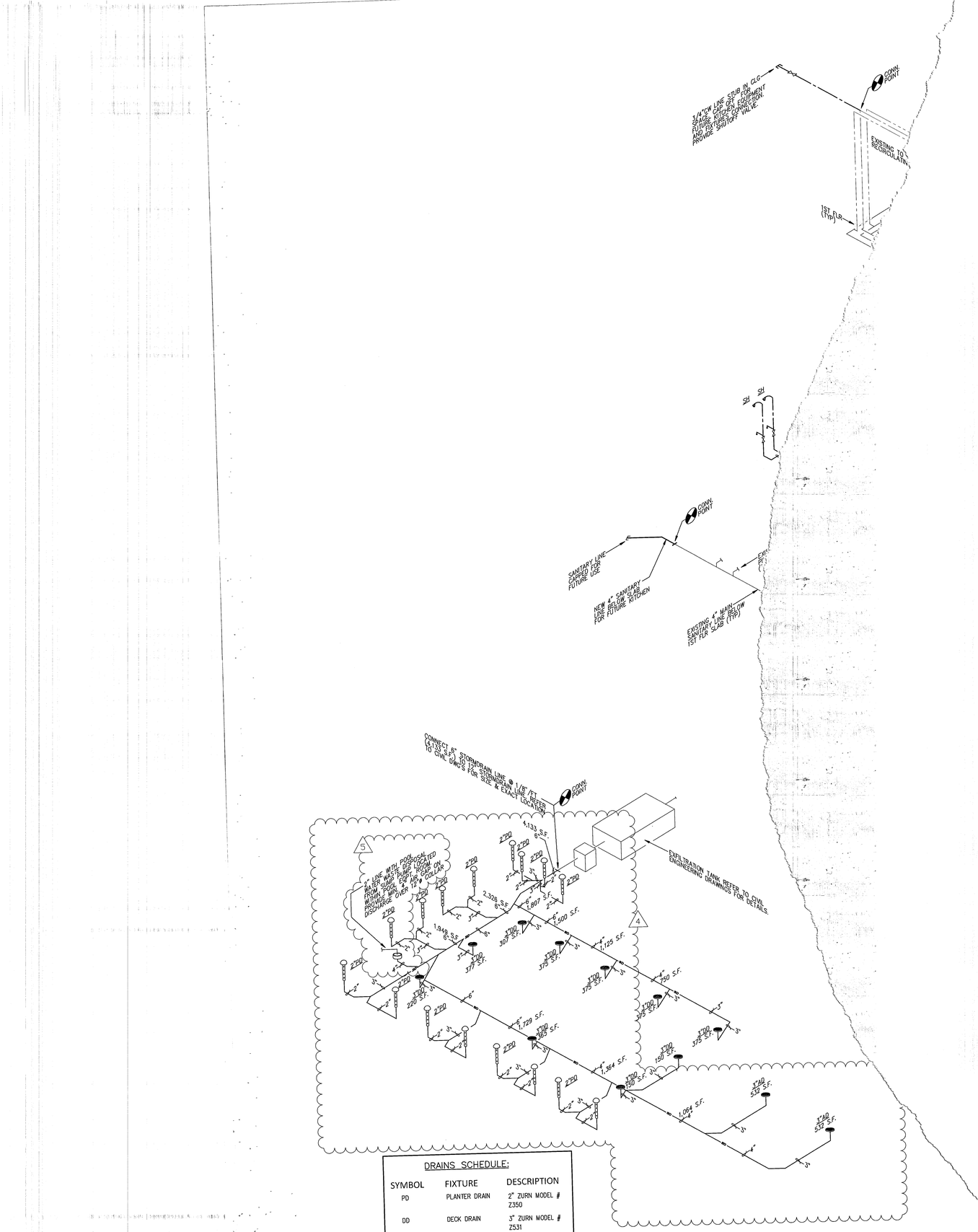
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PLUMBING PIPING ISOMETRICS

SHEET NUMBER

P301

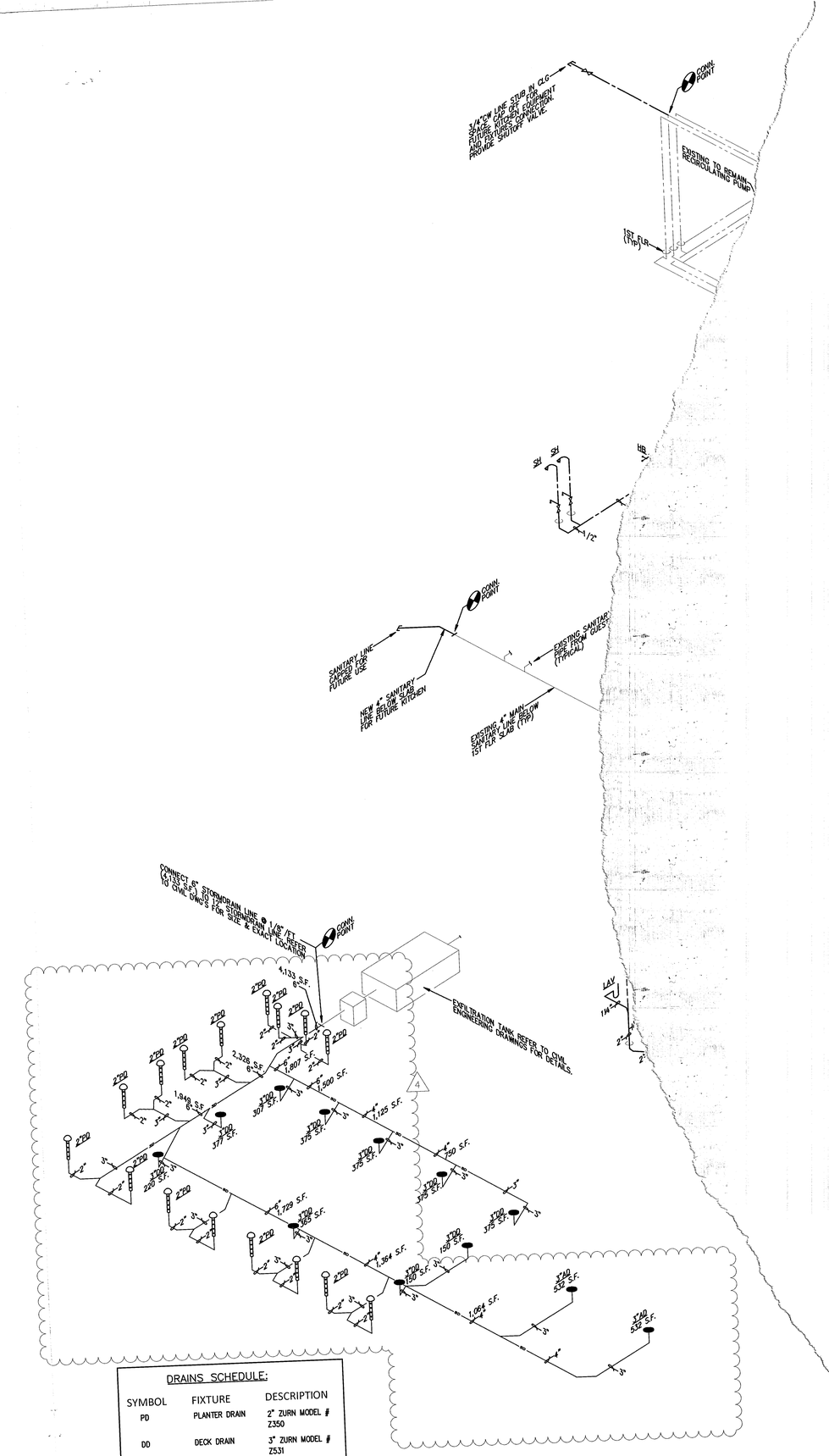
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DRAINS SCHEDULE:

SYMBOL	FIXTURE	DESCRIPTION
PD	PLANTER DRAIN	2" ZURN MODEL # Z350
DD	DECK DRAIN	3" ZURN MODEL # Z531
AD	AREA DRAIN	3" ZURN MODEL # Z531

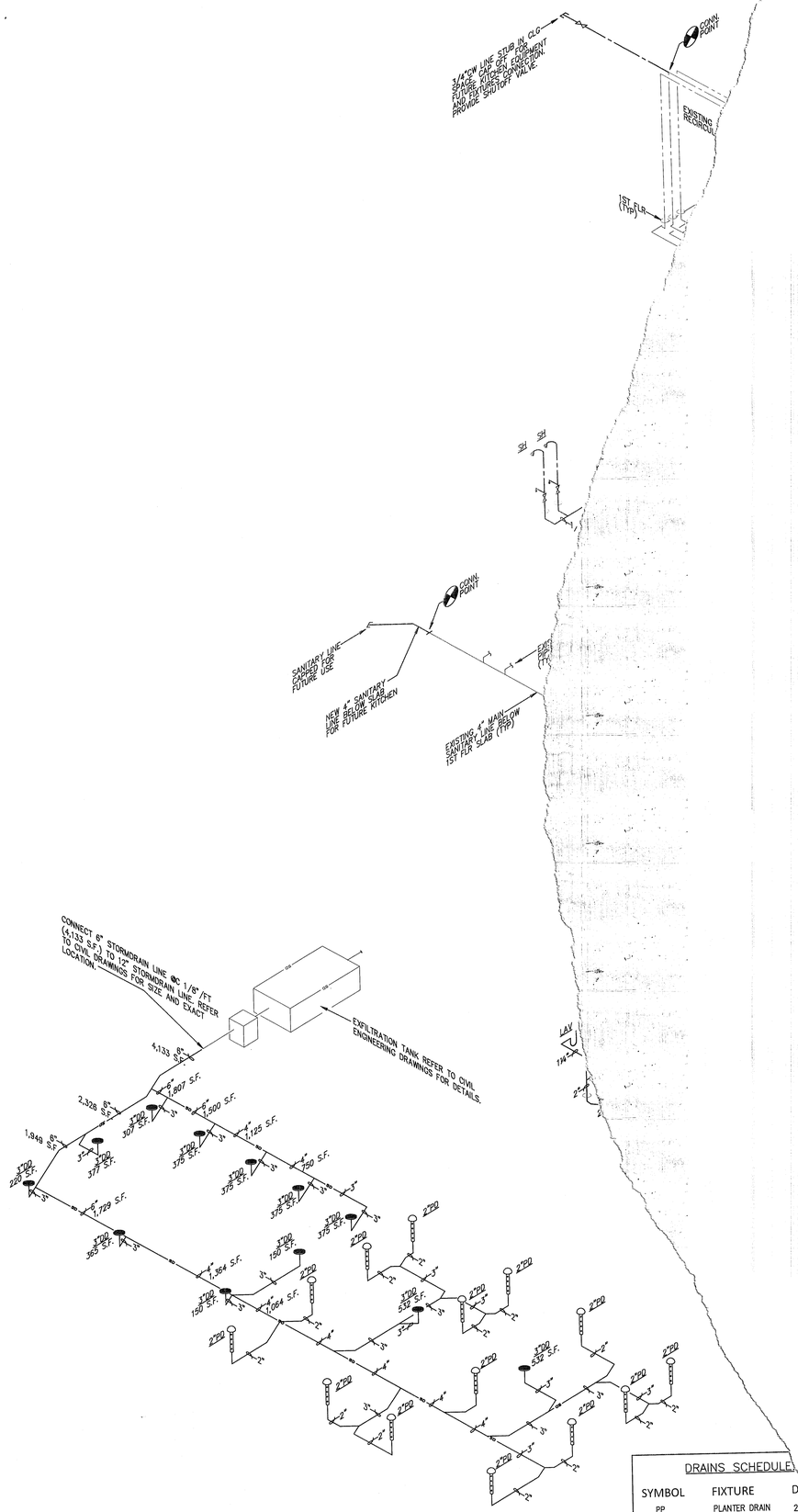
3 STORM & PLANTER DRAINAGE PIPING ISOMETRIC
NTS



DRAINS SCHEDULE:

SYMBOL	FIXTURE	DESCRIPTION
PD	PLANTER DRAIN	2" ZURN MODEL # Z350
DD	DECK DRAIN	3" ZURN MODEL # Z531
AD	AREA DRAIN	3" ZURN MODEL # Z531

3 STORM & PLANTER DRAINAGE PIPING ISOMETRIC
NTS



DRAINS SCHEDULE		
SYMBOL	FIXTURE	DES
PP	PLANTER DRAIN	2" ZURN M. Z350
DD	DECK DRAIN	3" ZURN MODEL # Z531

3 DESK AND PLANTERS STORM PIPING ISOMETRIC
NTS

GENERAL ELECTRICAL NOTES

(GENERAL NOTES ARE PROVIDED AS A BASIC DESCRIPTION OF THE EXTENT AND QUALITY EXPECTED IN THIS PROJECT. IF A CONFLICT EXISTS BETWEEN THESE GENERAL NOTES AND THE REMAINDER OF THE CONTRACT DOCUMENTS THE SPECIFICATIONS, PLANS AND DETAILS WILL GOVERN.)

1. THE ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, LATEST EDITION (NEC) AND THE LATEST EDITIONS OF ALL LOCAL CODES, RULES AND ORDINANCES HAVING JURISDICTION.
2. AS A MINIMUM, ALL EQUIPMENT SHALL MEET APPLICABLE STANDARDS, FOR THE TYPE OF EQUIPMENT AND INTENDED USE, OF THE FOLLOWING:
   A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
   B. ILLUMINATING ENGINEERS SOCIETY (IES)
   C. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
   D. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATES.(NEMA)
   E. NOTE: THESE STANDARDS ARE SUBORDINATE TO CODES AND STANDARDS SET BY U.L.

   ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR INTENDED USE, WITH UNDERWRITER'S LABORATORIES INC. (U.L.), WHERE STANDARDS HAVE BEEN ESTABLISHED BY U.L.
3. CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE DRAWINGS.
4. THE CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY ALL CONDITIONS, LOCATIONS, DIMENSIONS AND COUNTS AS SHOWN OR NOTED ON THE DRAWINGS, PRIOR TO SUBMITTING BID.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND/OR NOTED ON THE PLANS.
6. ELECTRICAL CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT UNLESS NOTED OTHERWISE.
7. IT SHALL BE UNDERSTOOD THAT ALL WORK PERFORMED SHALL BE DONE BY A LICENSED CONTRACTOR AND IN A FIRST-CLASS WORKMANLIKE MANNER. SAID CONTRACTOR SHALL MEET ALL REQUIREMENTS SET FORTH BY ANY LOCAL ORDINANCE AND GOVERNING AUTHORITIES.
8. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED INSURANCE FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
9. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE, UNLESS INDICATED OR SPECIFIED OTHERWISE.
10. IT SHALL NOT BE THE INTENT OF THESE PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR SHALL BE EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE FOR ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING TO ORIGINAL CONDITIONS, ANY AND ALL DAMAGES TO BUILDING SURFACES, EQUIPMENT, ETC. CAUSED DURING THE PERFORMANCE OF WORK.
12. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE OR DELAYS AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
13. FOR ELECTRIC POWER SYSTEM, COORDINATE POWER SERVICE WITH POWER COMPANY;
   A. VERIFY LOCATION OF POWER SERVICE TERMINATION WITH POWER COMPANY, PRIOR TO SUBMITTING BID. CONTRACTOR TO VERIFY AVAILABLE SERVICE VOLTAGE AND PHASES WITH POWER COMPANY PRIOR TO BID AND PROVIDE BID ALLOWANCE FOR ALTERNATES.
   B. PROVIDE TEMPORARY ELECTRICAL SERVICE FOR USE BY ALL TRADES DURING CONSTRUCTION AND REMOVE SAME AT COMPLETION OF PROJECT.
14. CONTRACTOR SHALL KEEP ALL AREAS IN WHICH WORK IS BEING PERFORMED, FREE FROM DEBRIS AT ALL TIMES AND SAID AREAS SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.
15. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTING COSTS.
16. COORDINATE ALL ELECTRICAL SITE WORK WITH ALL OTHER TRADES CONTRACTORS.
17. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR FOR THE ADVANCE ORDERING OF LONG LEAD ITEMS, AS TO NOT INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME. THE CONTRACTOR IN ALL SHALL NOT ORDER ANY ITEMS UNTIL APPROVED SHOP DRAWINGS ARE RETURNED TO HIM.
18. ELECTRICAL CONTRACTOR SHALL SUBMIT (6 COPIES) EQUIPMENT LAYOUT OF ALL ELECTRICAL SPACES, ROOMS, ETC., TO ENGINEER FOR APPROVAL PRIOR TO ORDERING EQUIPMENT OR INSTALLING CONDUITS, ETC. LAYOUT SHALL CONSIST OF PLAN VIEWS (SCALED AS REQUIRED) AND ELEVATIONS (DIMENSIONED) FOR EACH SUCH SPACE, ROOM, ETC.
19. CONTRACTOR SHALL SUBMIT AT ONE TIME, SIX (6) SETS OF LOOSE-LEAF BOUND BOOKS, INDEXED WITH ALL PRODUCTS, MATERIALS, LIGHTING FIXTURES, LAMPS, WIRING DEVICES, SWITCHGEAR, ETC. CLEARLY HIGHLIGHTING ALL EQUIPMENT QUANTITIES AND DETAILS. ALL EQUIPMENT SHALL BE AS SPECIFIED ON PLANS; THE RESPONSIBILITY TO ACCEPT OR REJECT ANY PROPOSED SUBSTITUTION REMAINS WITH THE PROJECT ENGINEER. THE CONTRACTOR MAY AT HIS JUDGMENT USE ANY ARTICLE, DEVICE, PRODUCT, OR MATERIAL WHICH IN THE JUDGMENT OF THE ENGINEER EXPRESSED IN WRITING ARE EQUAL TO THAT SPECIFIED.
20. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN EXCEPT WHERE OTHERWISE REQUIRED BY U.L. OR CODES. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING. ALUMINUM CONDUCTORS ARE NOT PERMITTED.
21. ALL CONDUCTORS SHALL BE IN CONDUITS. ALL CONDUITS SHALL BE GALVANIZED RIGID STEEL (GRS) EXCEPT THAT: (a) PVC CONDUITS MAY BE USED UNDERGROUND PROVIDED ELBOWS AND RISERS ARE GALVANIZED RIGID STEEL OR SCHEDULE 80 PVC, WHERE SUBJECT TO PHYSICAL DAMAGE (b) ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN OR ON WALLS OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP OR CORROSIVE CONDITIONS, (c) LIQUID TIGHT FLEXIBLE CONDUIT WHERE REQUIRED, (d) FLEXIBLE METALLIC CONDUIT WHERE REQUIRED IN DRY LOCATIONS ONLY, (e) MC CABLE WITH DEDICATED GREEN GROUNDING CONDUCTOR WHERE PERMITTED. (f) CONDUITS IN HAZARDOUS AREAS (PER NEC) SHALL MEET THE REQUIREMENTS OF NEC CHAPTER 5.
22. FOR UNDERGROUND ELECTRICAL CONDUITS, PROVIDE PULL BOXES, SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WARNING TAPE WHICH SAYS "WARNING BURIED ELECTRIC" SHALL BE PLACED IN TRENCHES ABOVE ALL UNDERGROUND ELECTRIC CONDUITS. WHERE CONDUITS PASS UNDERNEATH PAVED AREAS, THEY SHALL BE PVC. WHERE UNDERGROUND CONDUITS ARE NOT EXPOSED TO MECHANICAL DAMAGE OR ARE NOT UNDER PAVED AREAS, THEY SHALL BE SCHEDULE 40 PVC.
23. ALL CONDUIT RUNS ARE SHOWN DIAGRAMMATIC. EXACT ROUTING SHALL BE DETERMINED IN THE FIELD, UNLESS OTHERWISE NOTED.
24. WIREWAYS SHALL BE SIZED AS REQUIRED, PER NEC, UNLESS OTHERWISE NOTED (UON).
25. WHERE CORE DRILLING OF FLOOR/WALLS IS REQUIRED, CONTRACTOR SHALL SEAL OPENINGS WATERTIGHT AFTER UTILITIES HAVE BEEN INSTALLED. LOCATION OF CORED HOLES SHALL COORDINATE WITH LOCATION OF EQUIPMENT IN A MANNER TO BE CLEAN AND FUNCTIONAL. THE CONTRACTOR SHALL INSTALL ONLY ONE CONDUIT PER HOLE AND SEAL THE OPENING AROUND THE CONDUIT AS SPECIFIED.
26. PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL PENETRATIONS OF FIRE RATED PARTITIONS, WALLS AND STRUCTURAL SLABS. CONTRACTOR TO VERIFY, PRIOR TO SUBMITTING BID, LOCATIONS OF ALL SUCH FIRE RATED PARTITIONS, WALL AND STRUCTURAL SLABS.
27. UNLESS NOTED AS EXISTING, ALL EQUIPMENT, WIRING, DEVICES, ETC. SHALL BE NEW.
28. ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME TYPE (THERMAL MAGNETIC OR SOLID STATE AS REQUIRED BY SPECIFICATION). TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP. NO TIE HANDLES PERMITTED.
29. ALL FUSES SHALL BE CURRENT LIMITING, PER U.L., RATED 600V., UON.
   A. NON-TIME DELAY FUSES IN MAIN SWITCHES AND SWITCHES FEEDING PANELS.
   B. TIME DELAY FUSES FOR MOTOR AND A/C CIRCUITS.
30. ALL DISCONNECT SWITCHES SHALL BE SIZED BY NEC REQUIREMENTS TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES U.O.N. SWITCHES SHALL BE HORSEPOWER RATED FOR MAX. HORSEPOWER, HEAVY DUTY TYPE.
31. CONTRACTOR SHALL VERIFY CIRCUIT PROTECTIVE DEVICE RATING FOR EQUIPMENT PRIOR TO INSTALLATION.
32. FURNISH AND INSTALL DISCONNECT SWITCHES AND WIRING FOR AIR CONDITIONING SYSTEM AS PER MANUFACTURER RECOMMENDATIONS. CONTROLS ARE TO BE SUPPLIED BY AIR CONDITIONING CONTRACTOR AND CONNECTED, PROVIDE ALL CONTROL WIRING FOR A/C SENSORING AND CONTROL UNITS, COORDINATE WITH A/C CONTRACTOR FOR WIRING DIAGRAMS AND EXACT MOUNTING LOCATIONS.
33. ALL ELECTRICAL EQUIPMENT SHALL BE RAINTIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE LIQUID TIGHT.
34. EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND NEMA RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
35. ALL CONNECTIONS TO GROUND RODS SHALL BE MADE WITH U.L. APPROVED WELDED CONNECTIONS, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL FORM A GROUNDING ELECTRODE SYSTEM AS PER NEC 250-50.
36. OUTLET IN DRY LOCATIONS BOXES SHALL BE PRESSED STEEL, IN WET OR DAMP LOCATIONS SHALL BE CAST ALLOY WEATHER-RESISTANT OUTLET WITH THREADED HUBS AND IN OTHER CLASSIFIED AREAS IF SHALL BE IN A SPECIAL ENCLOSURE. PROPER PLASTER RINGS SHALL BE USED WITH OUTLET BOXES. PROPER COORDINATION BETWEEN ELECTRICAL SUBCONTRACTOR AND GENERAL CONTRACTOR FOR PLASTER RING INITATION WILL BE REQUIRED. NO "COOP" RINGS SHALL BE ALLOWED. ALL OUTLET BOXES SHALL BE SECURELY FASTENED.
37. WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE RESISTIVE ASSEMBLIES, (CLASSIFIED AS FIRE/SMOKE AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED WITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
   A. ALL ELECTRICAL BOXES SHALL BE METALLIC.
   B. BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
   C. BOX OPENING SHALL NOT EXCEED 10322.56 SQUARE MM (16SQUARE INCHES).
   D. ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL).
   E. PROVIDE A WALL AROUND OUTLETS LARGER THAN 10322.56 SQUARE MM (16 SQUARE INCHES). THE INTEGRITY OF THE WALL RATING SHALL BE MAINTAINED.
   F. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 64516 SQUARE MM (100 SQUARE INCHES) PER 9.29 SQUARE METERS (100 SQUARE FEET).
   G. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 609.6MM (24 INCHES).
   H. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.
   I. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 3.175MM (1/8 INCH) BETWEEN THE EDGES OF THE OUTLET BOX AND EDGES OF THE OPENING.
38. SMOKE DETECTORS SHALL BE PROVIDED NO CLOSER THAN 36" FROM SUPPLY AIR DIFFUSERS.
39. CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY OF EACH PANELBOARD. HAND WRITTEN DIRECTORY IS NOT ACCEPTABLE, EXCEPT SPARE AND SPACES SHALL BE HANDWRITTEN IN PENCIL.
40. PROVIDE A 4" STEEL REINFORCED CONCRETE HOUSEKEEPING PAD UNDER ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
41. A. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC 110.26

    B. THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC 408.
42. METER CANS, HUBS, & LUGS FOR SAME ARE TO BE FURNISHED & INSTALLED BY CONTRACTOR. CONTRACTOR TO VERIFY SPECIFIC TYPE OF METER CAN TO BE USED WITH F.P.L. PRIOR TO BID.
43. A. PROVIDE A PERMANENT SIGN ON THE MAIN ELECTRICAL ROOM DOOR TO THE BLDG. STATING THAT THE SERVICE DISCONNECTS ARE LOCATED INSIDE.

    B. SIGNS SHALL BE PLACED AT THE MAIN DISCONNECT EQUIPMENT INDICATING TYPE AND LOCATION OF ON-SITE EMERGENCY POWER SOURCES.
44. THE EQUIPMENT GROUNDING TERMINAL BARS OF THE NORMAL AND EMERGENCY ELECTRICAL SYSTEM PANELBOARDS SERVING THE SAME BUILDING SHALL BE BONDED TOGETHER WITH AN INSULATED, CONTINUOUS, COPPER CONDUCTOR NOT SMALLER THAN NUMBER 6.
45. THE ELECTRICAL CONTRACTOR SHALL FURNISH A COMPLETE SET OF AS-BUILT DRAWINGS, SHOWING ALL CHANGES AND DEVIATIONS TO THE ARCHITECT/ENGINEER PRIOR TO COMPLETION OF THE PROJECT.
46. ARCHITECTURAL AND/OR ENGINEERING EXPENSES THAT ARE INCURRED DUE TO REVISIONS OR SUBSTITUTIONS REQUESTED BY THE CONTRACTOR SHALL BE PAID FOR BY THAT CONTRACTOR.
47. FOR TELEPHONE SYSTEMS:
   A. PROVIDE GROUNDING FOR ALL TELEPHONE OUTLETS AND EQUIPMENT PER REQUIREMENTS OF THE TELEPHONE COMPANY.
   B. COORDINATE INSTALLATION OF ALL TELEPHONE OUTLETS, RACEWAYS, ENCLOSURES AND BACKBOARDS WITH TELE. CO.
   C. VERIFY LOCATION OF TELEPHONE SERVICE WITH TELEPHONE COMPANY. PROVIDE SERVICE CONDUIT TO EXTERIOR FROM SERVICE POINT PER TELCO. INSTRUCTIONS, INCLUDE ALL ASSOCIATED COSTS IN BID.
   D. MARK TERMINATIONS OF TELEPHONE CONDUIT AS DIRECTED BY THE TELEPHONE COMPANY.
   E. VERIFY LOCATION OF TELEPHONE SERVICE WITH TELEPHONE COMPANY PRIOR TO SUBMITTING BID, INCLUDE ALL ASSOCIATED COSTS IN BID.
   F. USE EXTERIOR GRADE 3/4" PLYWOOD BACKBOARDS FOR MOUNTING TELEPHONE EQUIPMENT AND TERMINAL STRIPS. PAINT BOARD ON ALL SIDES AND EDGES WITH TWO COATS OF FLAT BLACK FIRE RETARDANT PAINT.
48. INDUSTRIAL CONTROL TYPE TRANSFORMERS SHALL BE PROVIDED WITH FINGERSAFE COVERS AND PRIMARY FUSE PROTECTION AS REQUIRED PER NEC 450-3. MOUNT TRANSFORMERS ON 4"X4" JUNCTION BOX ABOVE ACCESSIBLE CEILINGS OR ELECTRICAL ROOMS.
49. FOR RESIDENTIAL WORK PROVIDE COMBINATION TYPE ARC-FAULT CIRCUIT INTERRUPTER PROTECTION THROUGHOUT THE DWELLING UNIT, EXCEPT IN KITCHEN BATHROOM, GARAGES AND OUTDOORS. ALL DWELLING UNIT RECEPTACLE OUTLETS MUST BE LISTED TAMPER-RESISTANT.
50. PROVIDE U.L. LISTED COMPOUND APPLIED TO BACK OF "BACK TO BACK" BOXES IN RATED WALLS WHERE THE BOXES ARE LESS THAN 609.6MM (24 INCHES) APART MEASURED HORIZONTALLY.
51. CONTRACTOR SHALL PROVIDE TYPED, UPDATED PANEL DIRECTORIES ON ALL PANELS THAT ARE AFFECTED AT THE COMPLETION OF THE JOB.
52. FOR RECEPTACLES IN DAMP AND WET LOCATIONS THE CONTRACTOR SHALL PROVIDE ALL 125V. AND 250V., 15A. AND 20A. RECEPTACLES THAT ARE LISTED AS WEATHER RESISTANT TYPE TO COMPLY WITH NEC ARTICLE 406.8.

GENERAL LIGHTING NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.
2. COORDINATE TYPE OF CEILING FOR EACH FIXTURE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND PROVIDE FIXTURE TRIM AS REQUIRED.
3. COORDINATE FIXTURE TYPES WITH ARCHITECTURAL DRAWINGS.
4. PROVIDE APPROVED FIRE RATED ENCLOSURES FOR ALL LIGHT FIXTURES LOCATED IN FIRE RATED CEILINGS.
5. FIXTURES IN AREAS WITHOUT CEILINGS, OR IN MECHANICAL AND ELECTRICAL ROOMS SHALL BE MOUNTED WITH 1 ½"X1 ½"KINDORF CHANNEL SUPPORT SUSPENDED FROM ROOF STRUCTURE WITH THREAD RODS. FIXTURES SHALL BE MOUNTED 10'-0" A.F.F.
6. ALL ACRYLIC LENSED FIXTURES SHALL HAVE A LENS THICKNESS OF .125 INCHES MINIMUM.
7. HALF SHADED FIXTURES DENOTE EMERGENCY FIXTURES EITHER WITH 1100 LUMEN EMERGENCY BATTERY PACK OR ON LIFE SAFETY CIRCUIT.
8. FOR EMERGENCY EXIT SIGNS AND EMERGENCY BATTERY PACKS MAKE CONNECTION AHEAD OF ALL SWITCHES AND CONTROLS.
9. ALL BALLASTS SHALL HAVE MINIMUM POWER FACTOR OF 0.90. ALL BALLASTS FOR METAL HALIDE AND HIGH PRESSURE SODIUM FIXTURES SHALL BE CONSTANT WATTAGE TYPE WITH +/-5% LAMP WATTS FOR +/-10% NOMINAL LINE VOLTAGE VARIATION.
10. FLUORESCENT LUMINARES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLAST(S) OR MULTIWIRE BALASTED LUMINAIRES SHALL CONTAIN AN INTEGRATED INTERNAL DISCONNECT AND TO BE COMPLIED WITH NEC 410.73(G).
11. ALL OPENINGS FOR LIGHT FIXTURES IN CEILINGS SHALL BE PROTECTED IN A MANNER (PER ALL GOVERNING CODES) THAT WILL PROVIDE THE SAME RATING AS THE CEILING. (THIS APPLIES TO ALL FIRE RATED CEILINGS).
12. CONTRACTOR MUST BID PROJECT USING SPECIFIED LIGHTING FIXTURES AS BASE BID (NO EXCEPTIONS). IF ALTERNATE FIXTURES ARE PROPOSED, THEY MUST BE BID AS AN ALTERNATE BID MUST INCLUDE:
   A) TOTAL DOLLAR CREDIT TO OWNER IF ALTERNATE IS ACCEPTED.
   B) LINE ITEM CREDIT FOR EACH ALTERNATE FIXTURE PROPOSED.
   C) CATALOG SUBMITTAL DATA FOR EACH ALTERNATE FIXTURE PROPOSED.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
A	LIGHTING (REFER TO LIGHTING FIXTURE SCHEDULE)
	LIGHT FIXTURE DESIGNATION.
	LIGHTING FIXTURE, SURFACE MOUNTED
	LIGHTING FIXTURE (HID, FLUORESCENT OR INCANDESCENT), RECESSED MTD.
H⊗	LIGHTING FIXTURE, WALL MOUNTED
	EXIT LIGHT FIXTURE, DIRECTION ARROWS AS SHOWN
	WALL MOUNTED EXIT LIGHT FIXTURE (SHADED QUADRANT INDICATES FACE(S) OF FIXTURE)
	2 X 2 FLUORESCENT LIGHT FIXTURE
	2 X 4 FLUORESCENT LIGHT FIXTURE
	DIAGONAL SHADING DENOTES LIGHT FIXTURE CONNECTED TO EMERGENCY BRANCH CIRCUIT OR, W/EMERG. BATTERY PACK.
	1 X 4 FLUORESCENT LIGHT FIXTURE DIAGONAL SHADING DENOTES LIGHT FIXTURE CONNECTED TO EMERGENCY BRANCH CIRCUIT OR, W/EMERG. BATTERY PACK. FLUORESCENT WALL MOUNTED FIXTURE WITH WALL OUTLET BOX
	FLUORESCENT STRIP FIXTURE DIAGONAL SHADING DENOTES LIGHT FIXTURE CONNECTED TO EMERGENCY BRANCH CIRCUIT OR, W/EMERG. BATTERY PACK.
	EXTERIOR LIGHT FIXTURE WITH ARMS AS SHOWN ON DRAWINGS
	EMERGENCY BATTERY WALL PACK WITH TWIN HEADS
$S	TOGGLE SWITCH 120/277V. 20 AMP.,(M.H. = 48" A.F.F.)
$3	TOGGLE SWITCH 120/277V. 20 AMP. (M.H. = 48" A.F.F.) , 3-WAY
$4	TOGGLE SWITCH 120/277V. 20 AMP., (M.H. = 48" A.F.F.), 4-WAY
$K	TOGGLE SWITCH 120/277V. 20 AMP. KEYSWITCH, (M.H. = 48" A.F.F.)
$F	FAN SWITCH 120/277V. 20 AMP, (HORSEPOWER RATED)
$4D	SINGLE PHASE MANUAL MOTOR STARTER, (M.H.=48" A.F.F.)
$D	DIMMER SWITCH 120/277V. 20 AMP., (M.H.=48" A.F.F.) (1500 WATTS UNLESS OTHERWISE INDICATED)
$3D	THREE-WAY DIMMER SWITCH (48" A.F.F.)
$a	SINGLE POLE SWITCH (48" A.F.F.) (SUBSCRIPT INDICATES ITEM CONTROLLED)
Pa,b	WALL MOUNTED – OCCUPANCY SENSOR SWITCH,(M.H.=48"A.F.F.) MFGR./MODEL# SENSOR SWITCH/#WSD-PDT a) OR (2) INDICATES TWO POLE SWITCH – WSD-PDT-2P LV INDICATES LOW VOLTAGE – WSD-PDT-LV
CS	CEILING MOUNTED OCCUPANCY SENSOR – LIGHTING CIRCUIT CONTROLLER. MFGR./MODEL# (SENSOR SWITCH/#CM-PDT)
CSLV	CEILING MOUNTED DUAL TECHNOLOGY EXTENDED RANGE OCCUPANCY SENSOR – LIGHTING CIRCUIT CONTROLLER. SENSOR SWITCH/#CM-PDT-10.
P	WALL MOUNTED – OCCUPANCY SENSOR (M.H.=96"A.F.F.) MFGR./MODEL#WV-PDT
PP	POWER PACK

OCCUPANCY SENSOR NOTE:
CONTRACTOR SHALL PROVIDE ALL SWITCHPACKS AND CONDUCTORS AS REQUIRED FOR LAYOUTS AND CONTROLS SHOWN ON PLANS.

IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AND INSTALL A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM IN ACCORDANCE WITH THE PLANS, DETAILS, INTENT OF THE DESIGN AND SPECIFICATIONS SHOWN ON THESE PLANS.

BASIC MATERIALS

	DUPLEX RECEPTACLE, 20 AMP., 125V., (M.H.=18"A.F.F.) FLOOR OUTLET BOX AND DUPLEX RECEPTACLE 20A, 125V., WITH APPROPRIATE FLANGE.
	CEILING OUTLET BOX AND DUPLEX RECEPTACLE 20A, 125V.
	DUPLEX RECEPTACLE, 20 AMP., 125V., TOP HALF SWITCHED, M.H. = 18" A.F.F. UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE, 20 AMP., 125V., ISOLATED GROUND AND SURGE PROTECTED, (M.H.=18"A.F.F.)
	SINGLE RECEPTACLE, 20 AMP., 125V., COORDINATE M.H. WITH EQUIPMENT.
EWC	SIMPLEX RECEPTACLE (16" A.F.F.) (EWC DENOTES ELECTRIC WATER COOLER. COORDINATE WITH EWC INSTALLER FOR MOUNTING HEIGHT)
	TWO DUPLEX RECEPTACLES WITH COMMON COVER 20A., 125V.,(18" A.F.F.)
	SPECIAL PURPOSE OUTLET e.g. RANGE OUTLET, COORD. W/ EQUIPT.
	DUPLEX RECEPTACLE, 20 AMP., 125V., MOUNT ABOVE COUNTER @42"AFF.
	GFCI DUPLEX RECEPTACLE, 20 AMP., 125V., (M.H.=18"A.F.F.)
	GFCI DUPLEX RECEPTACLE, 20 AMP., 125V., MTD. ABOVE COUNTER (VERIFY HEIGHT)
2	30 AMP., 125V., TWIST LOCK RECEPTACLE FOR FLOOR POLISHING MACHINE
	JUNCTION BOX, MOUNTING AS SHOWN
	POWER POLE
	ELECTRIC MOTOR, NUMBER INDICATES HORSEPOWER
	MAGNETIC MOTOR STARTER OR CONTACTOR.
	COMBINATION MAGNETIC MOTOR STARTER, SIZE AS NOTED
3 100	DISCONNECT SWITCH, SIZE AS NOTED # OF POLES AMP RATING/FRAME FUSE SIZE (* DENOTES AS PER MANUFACTURER) ENCLOSURE TYPE: NEMA 3R- FOR EXTERIOR NEMA 1- FOR INTERIOR
	LIGHTING CONTROL TIME CLOCK
	PHOTOCELL, MOUNTED ON ROOF FACING NORTH
X	SHUNT-TRIP BUTTON – FLUSH MOUNTED UNLESS OTHERWISE NOTED
	GROUND OR GROUND ROD AS NOTED
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB
2	CONDUIT CONTINUED
SP	CEILING MOUNTED SOUND SPEAKER CONNECTED TO BUILDING SOUND SYSTEM EXCEPT FOR CONFERENCE ROOM WHERE THEY SHALL BE LOCAL AND BUILDING SYSTEM ABLE.

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

SYSTEMS SYMBOL LEGEND

SYMBOL	DESCRIPTION
	CALL BACK PUSH BUTTON
KP	CIRCUIT BREAKER, TYPE AND SIZE AS PER DRAWINGS.
	SECURITY SYSTEM KEYPAD
C	CLOCK
B	BELL
R	AIR HANDLING UNIT SHUT-DOWN RELAY
R	POWER ON INDICATOR WITH KEYED RESET

SERVICE AND DISTRIBUTION

	ELECTRICAL BRANCH CIRCUIT PANELBOARD, RECESS MOUNTED. (SEE PANEL SCHEDULE FOR DETAILS)
	ELECTRICAL BRANCH CIRCUIT PANELBOARD, SURFACE MOUNTED. (SEE PANEL SCHEDULE FOR DETAILS)
T	TRANSFORMER, SIZE AS NOTED
	AUTOMATIC TRANSFER SWITCH
	EXISTING EQUIPMENT TO REMAIN
	NEW EQUIPMENT OR WORK OF THIS PROJECT

TELEPHONE/COMPUTER RACEWAY SYSTEM

	TELEPHONE/COMPUTER TERMINAL BOARD "TTB"
S	INTERCOM SYSTEM SPEAKER
	COMPUTER/TELEPHONE OUTLET WITH (2) 8-CONDUCTOR RJ-45 JACKS IN A SINGLE-GANG BOX MOUNTED AT 18" A.F.F. C = ABOVE THE COUNTER P = PUBLIC PAY (48" A.F.F.) W = WALL MOUNTED (18" A.F.F.)
	DATA/TELEPHONE PORT – FLOOR MOUNTED
	DATA/TELEPHONE PORT – FLOOR MOUNTED
	TELEVISION SIGNAL WALL OUTLET (M.H. = 18" A.F.F.) WITH 8-CONDUCTOR RJ-45 JACK AND F-TYPE RG6 COAX JACK IN SINGLE-GANG BOX.
	TELEVISION SIGNAL WALL OUTLET F-TYPE RG6 COAX JACK & COMPUTER/TELEPHONE OUTLET (2) 8-CONDUCTOR RJ-45 JACKS IN SINGLE-GANG BOX. (18" A.F.F.)

SECURITY SYSTEM

	SECURITY SYSTEM CAMERA, PROVIDE POWER AND SIGNAL CONNECTION, SEE SPECS.
	SECURITY SYSTEM MONITORS AND RECORDERS, SEE SPECS.
M	SECURITY SYSTEM CARD READER, SEE SPECS.
	SECURITY SYSTEM CABLES IN CONDUIT, SEE SPECS.
JB	SECURITY SYSTEM JUNCTION BOX AT ACCESSIBLE LOCATION.
	SECURITY SYSTEM HIDDEN PUSH BUTTON FOR DOOR STRIKE RELEASE, COORDINATE INSTALLATION WITH FURNITURE OR EQUIPMENT.
S	SECURITY SYSTEM SPEAKER WITH INTEGRAL MICROPHONE
KP	SECURITY SYSTEM KNOX BOX

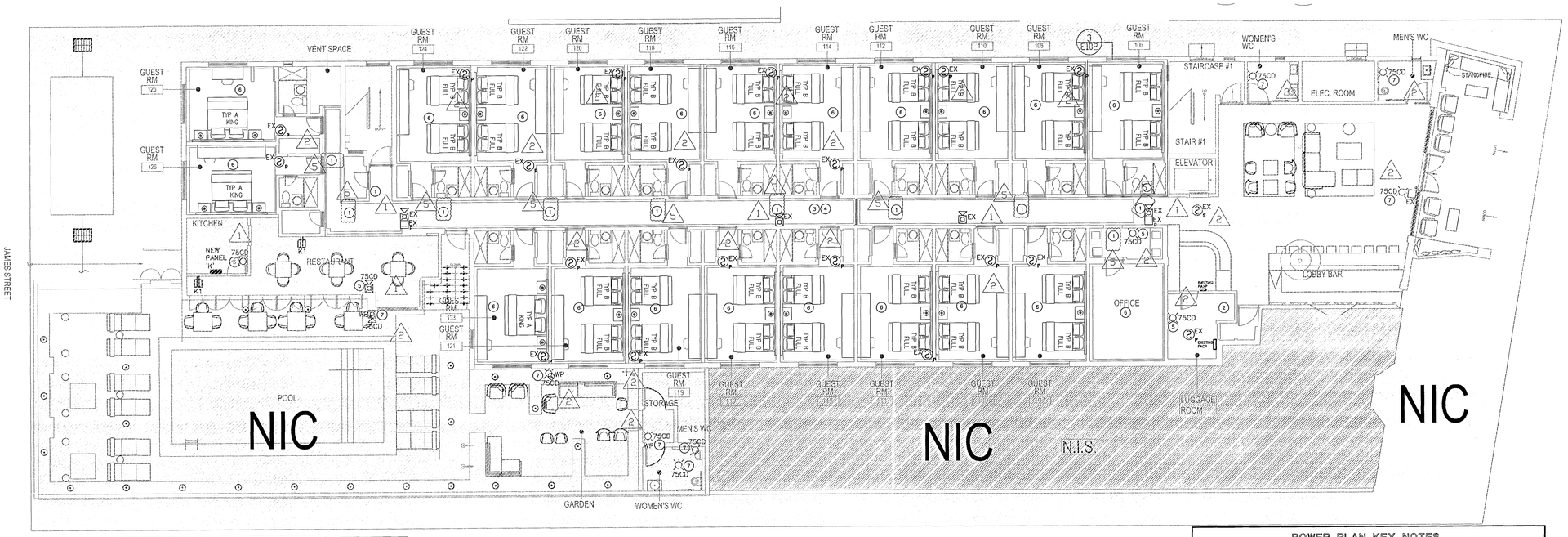
NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

ABBREVIATIONS

A.C.	ABOVE COUNTER	EX	EXISTING
A.F.	ARC FAULT	ER	EXISTING RELOCATED
A.F.F.	ABOVE FINISHED FLOOR	G.F.I.	GROUND FAULT INTERRUPTER
A.S.W.	ABOVE SHOW WINDOW RCPT.	L.C.	LOCKABLE COVER
B.F.C.	BELOW FINISHED CEILING	M.H.	MOUNTING HEIGHT
B.F.G.	BELOW FINISHED GRADE	N	NEW DEVICE
C.B.	CIRCUIT BREAKER	N.F.	NON FUSED
CL	CENTER LINE	NL	NIGHT LIGHT
D	DEDICATED FOR COMPUTER, PROVIDE DEDICATED GROUND AND NEUTRAL	RE	EXISTING TO BE REMOVED
IG	ISOLATED GROUND (ORANGE DEVICE)	T.C.	TERMINAL CABINET
EM	PROVIDE EMERGENCY BATTERY PACK W/FIXTURE, CONNECT AHEAD OF ALL SWITCHES.	T.S.	TIME SWITCH
FPL	FLORIDA POWER AND LIGHT	U.O.N.	UNLESS OTHERWISE NOTED
		WP.	WEATHER PROOF ENCLOSURE
		XFMR.	TRANSFORMER.
		X / Y-XX	DETAIL SHEET NUMBER

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

TO THE BEST OF THE ENGINEER'S KNO



DRAWING NOTES

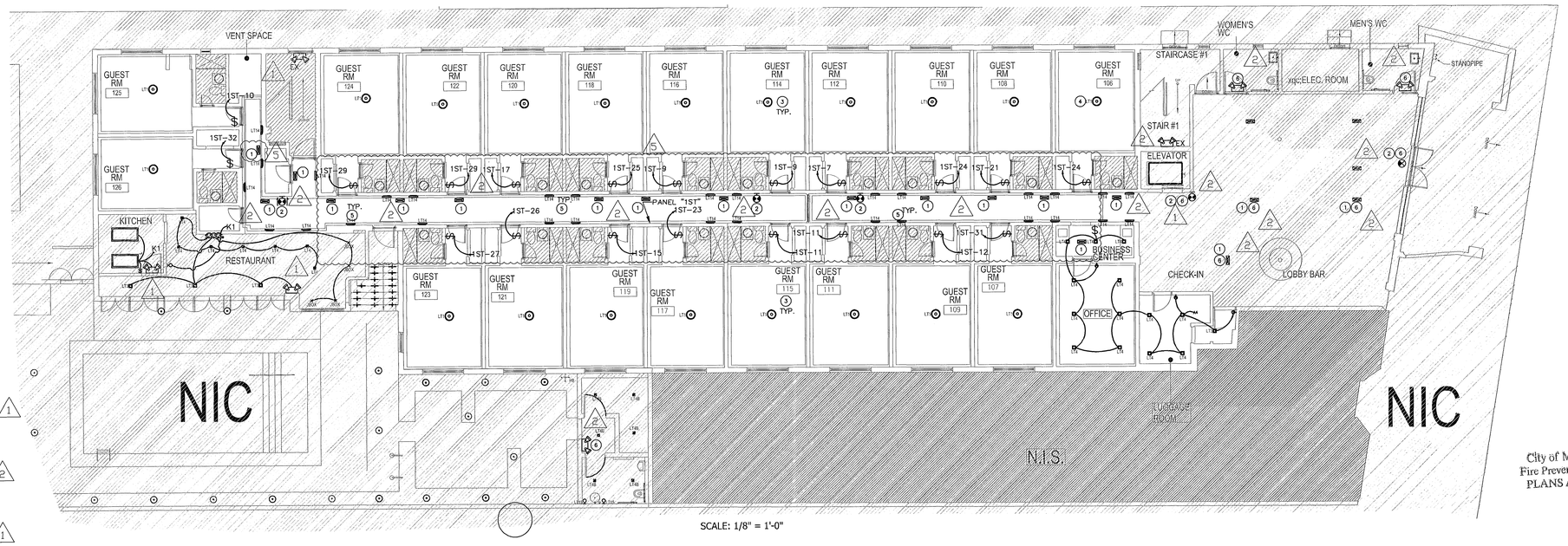
1. ALL NEW ELECTRICAL EQUIPMENT SHALL BE INSTALLED ABOVE FLOOR LEVELS.
2. ALL FIRE SAFETY SYSTEMS SHALL REMAIN FULLY OPERATIONAL DURING CONSTRUCTION.
3. REPLACE ALL EXISTING BRANCH CIRCUIT WIRING AND CONDUIT FROM PANEL "1ST" AND PANEL "2ND" TO EACH GUEST ROOM, ON THE FIRST AND SECOND FLOORS, WITH NEW AS INDICATED. RECONNECT FOR OPERATION.
4. NONMETALLIC SHEATHED CABLE (ROMEX) WAS USED IN SOME AREAS IN THE ORIGINAL BRANCH CIRCUIT WIRING FOR THIS PROJECT. THESE AREAS ARE NOT INCLUDED IN THE SCOPE OF WORK. THE EXISTING BRANCH CIRCUIT WIRING WITH NONMETALLIC SHEATHED CABLE IS TO REMAIN AS IS.
5. ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS SHALL BE PROVIDED WITH 90 MINUTE BATTERY BACKUP.
6. CONTRACTOR SHALL PROVIDE COMPLETE FIRE ALARM SHOP DRAWINGS, INCLUDING RISER DIAGRAM AND BATTERY CALCULATIONS, FOR SUBMISSION TO THE BUILDING DEPARTMENT.

1 FIRST FLOOR POWER PLAN

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

POWER PLAN KEY NOTES

1. EXISTING CORRIDOR RECEPTACLES TO REMAIN AND MAINTAIN EXISTING ELECTRICAL CONNECTION.
2. LOCATION OF EXISTING SERVER EQUIPMENT. EXISTING RECEPTACLES TO REMAIN. MAINTAIN EXISTING ELECTRICAL CONNECTION. REROUTE TELEPHONE LINES FROM CORRIDOR TO THIS LOCATION.
3. ALL EXISTING EXPOSED CONDUITS FOR FIRE ALARM, LIGHTING, POWER, AND SECURITY TO BE REMOVED AND RECESSED OUT OF SITE.
4. EXISTING FIRE ALARM DEVICES IN CORRIDOR TO REMAIN. RECESS SURFACE MOUNTED DEVICES INTO WALL. FIRE ALARM CONTRACTOR TO SUBMIT FIRE ALARM DRAWINGS AS PART OF THIS PERMIT.
5. NEW FIRE ALARM DEVICES TO BE TIED INTO EXISTING FIRE ALARM BRANCH CIRCUIT. UPDATE EXISTING BUILDING'S BATTERY CALCULATIONS.
6. EXISTING OUTLETS IN GUESS ROOMS TO BE REUSED. MAINTAIN EXISTING ELECTRICAL CONNECTION.
7. NEW FIRE ALARM DEVICES IN AREAS THAT ARE NOT PART OF THIS CONTRACT AND SHOWN HERE FOR REFERENCE TO BE INSTALLED DURING CONSTRUCTION OF THOSE AREAS.



LIGHTING PLAN KEY NOTES

1. CONNECT NEW CEILING MOUNTED EMERGENCY LIGHTS TO EXISTING CORRIDOR LIGHTS BRANCH CIRCUIT AND AHEAD OF LIGHT SWITCH. PROVIDE EMERGENCY LIGHT WITH 90 MINUTES BATTERY BACK UP. PHILIPS F3NW65K6CDC WITH A REMOTE EMERGENCY BATTERY UNIT IN AN ACCESSIBLE SPACE.
2. NEW EXIT LIGHTS TO BE TIED TO EXISTING EXIT LIGHTS BRANCH CIRCUIT AHEAD OF LIGHT SWITCH. PROVIDE EDGE LIT EXIT SIGN WITH 90 MINUTES BATTERY BACK UP.
3. CONNECT NEW LIGHTS TO REPLACE EXISTING LIGHTS IN GUEST ROOMS TO EXISTING BRANCH CIRCUIT AND SWITCHING.
4. CONNECT NEW GUEST ROOM LIGHTS TO REPLACE EXISTING GUEST ROOM LIGHTS TO EXISTING BRANCH CIRCUIT AND SWITCHING.
5. CONNECT NEW WALL MOUNTED CORRIDOR LIGHTS TO EXISTING CORRIDOR LIGHTS BRANCH CIRCUIT AND SWITCHING.
6. NEW EXIT/EMERGENCY LIGHTS IN THESE AREAS THAT ARE NOT PART OF THIS CONTRACT AND SHOWN HERE FOR REFERENCE AND TO BE INSTALLED DURING CONSTRUCTION OF THOSE AREAS.

REFER TO ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

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

2 FIRST FLOOR LIGHTING PLAN

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

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CA#00009181
PJT. MGR: SHAWN WALKER
PROJECT #: 130818
GEORGE RANJAN, P.E.
FLORIDA LICENSE #47700
DATE: 12/4/2013

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.

REVISIONS

NO.	DESCRIPTION	ISSUE DATE
	ROOMS AND CORRIDORS	11/6/2013
1	PERMIT COMMENTS	12/26/2013
2	2ND ROUND PERMIT COMMENTS	1/30/2014
3	3RD ROUND PERMIT COMMENTS	2/4/2014
4	FIELD COORDINATION	5/23/2014
5	FIRE DEPT. COMMENT	10/23/14

PERMIT SET

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ISSUE DATE: NOVEMBER 6, 2013
SCALE:

SHEET TITLE

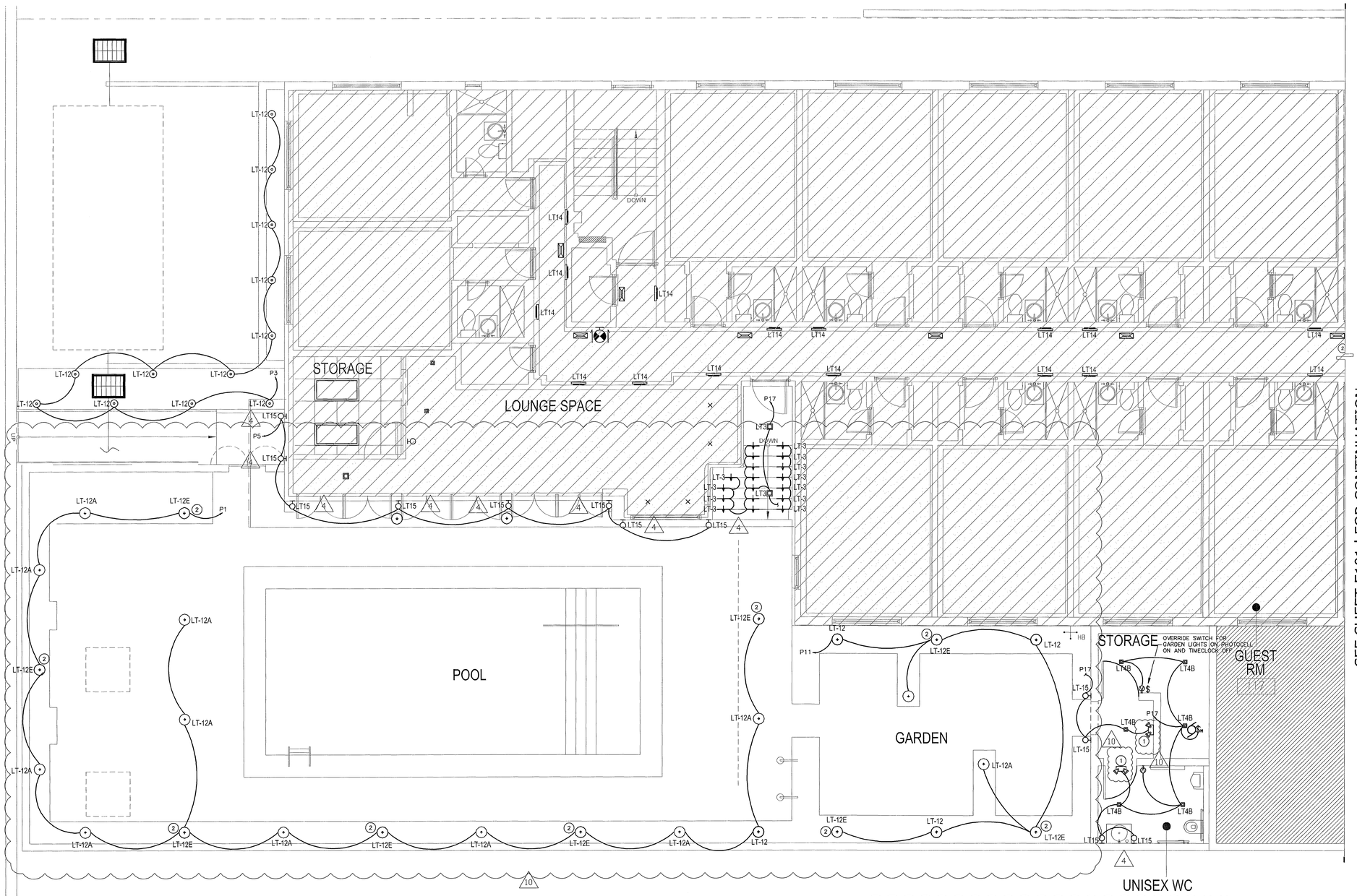
FIRST FLOOR POWER AND LIGHTING PLANS

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1 PARTIAL FIRST FLOOR LIGHTING PLAN

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

GENERAL NOTES

A. REFER TO THE ARCHITECTURAL DRAWINGS AND THE PHOTOMETRICS DRAWINGS FOR THE LIGHT FIXTURE SCHEDULE, UNLESS OTHERWISE NOTED.

B. ALL EXIT SIGNS, EMERGENCY LIGHTING UNITS AND BATTERY PACKS IN EMERGENCY LIGHT FIXTURES SHALL HAVE BATTERY BACKUP POWER RATED FOR 90 MINUTES.

KEYNOTES

1. EMERGENCY LIGHTING UNIT WITH 90 MINUTE BATTERY BACKUP.
2. LIGHT FIXTURE WITH 90 MINUTE BATTERY BACKUP.

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MIAMI BEACH, FL

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REVISIONS

NO.	DESCRIPTION	ISSUE DATE
	LOBBY AND POOL	12/03/2013
4	FIELD COORDINATION	5/23/2014
5	BUILDING DEPT COMMENT	6/11/2014
6	BUILDING DEPT. COMMENT	7/11/2014
7	BUILDING DEPT. COMMENT	7/17/2014
8	ARCH. REVISION	9/15/2014
9	FIELD COORDINATION	10/9/2014
10	FIRE DEPT. COMMENT	10/23/2014

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ISSUE DATE: DECEMBER 3, 2013

SCALE:

SHEET TITLE

PARTIAL FIRST FLOOR LIGHTING PLAN

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Fire Prevention Division
PLANS APPROVED

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PJT. MGR: SHAWN WALKER
PROJECT #: 130818

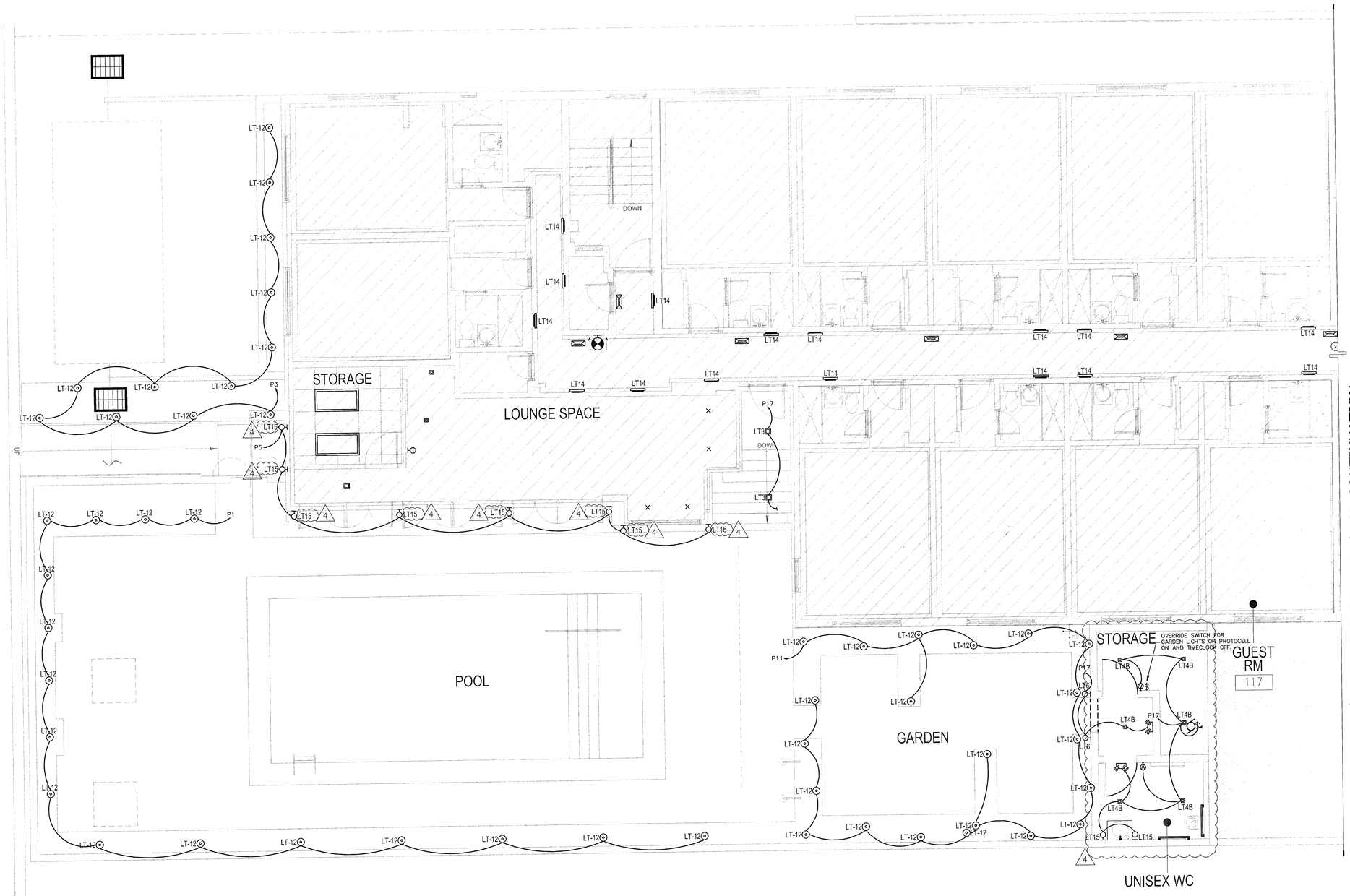
GEORGE SANJUAN, P.E.
FLORIDA LICENSE NO. 70705
DATE: 12/3/2013

SHEET NUMBER

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1 PARTIAL FIRST FLOOR LIGHTING PLAN
SCALE: 1/4" = 1'-0"

REFER TO ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

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MIAMI BEACH, FL

KEYPLAN N.T.S.

REVISIONS

NO.	DESCRIPTION	ISSUE DATE
	LOBBY AND POOL	12/03/2013
4	FIELD COORDINATION	5/23/2014
5	BUILDING DPT COMMENTS	6/11/2014

PERMIT SET

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ISSUE DATE: DECEMBER 3, 2013
SCALE:

SHEET TITLE
PARTIAL FIRST FLOOR LIGHTING PLAN

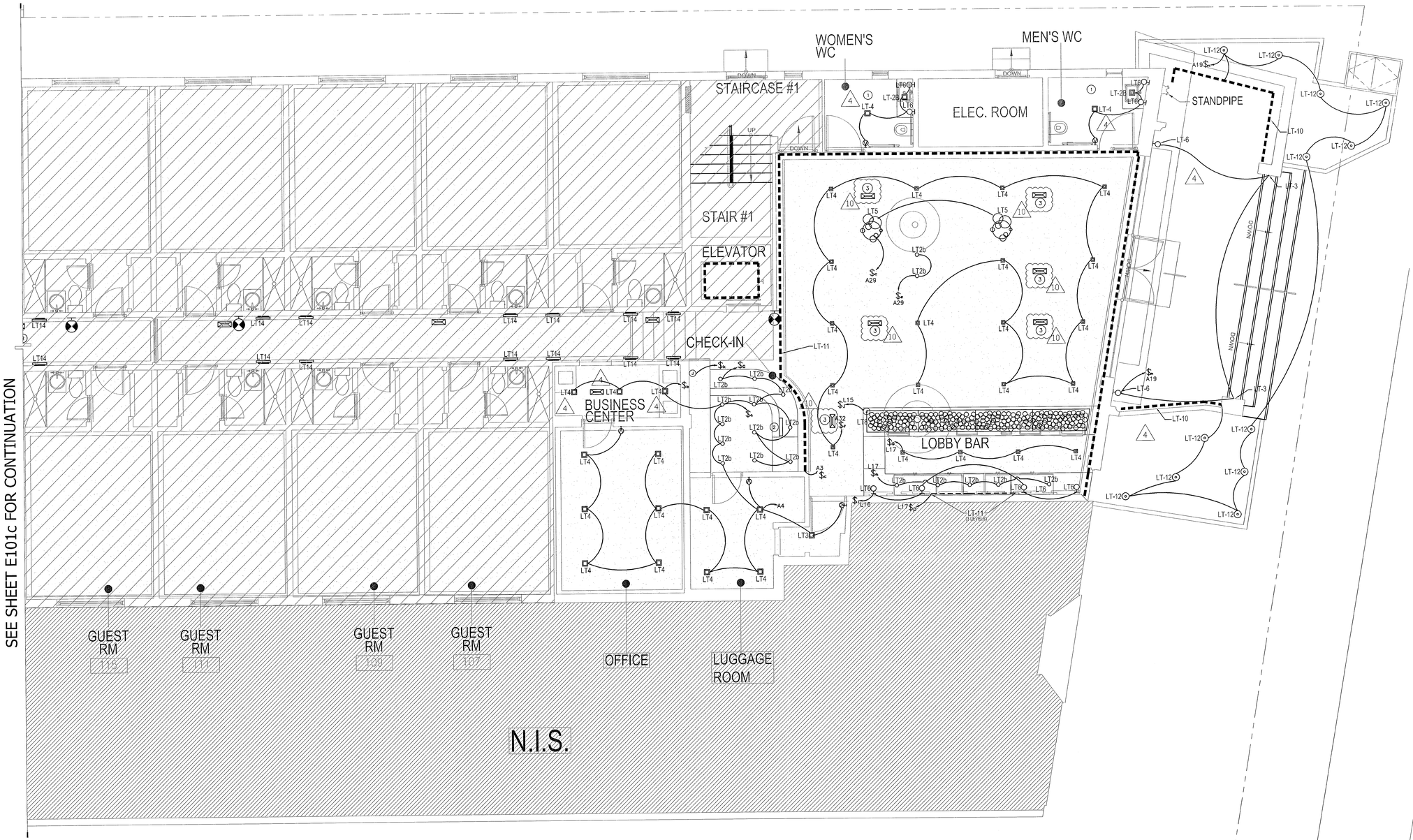
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CA#0000181
STATE OF FLORIDA
JOSE M. PEREZ
PROFESSIONAL ENGINEER
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PRT. MGR. SHAWN WALKER
PROJECT #: 130818
DATE: 11/19/2013

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SEE SHEET E101c FOR CONTINUATION



1 PARTIAL FIRST FLOOR LIGHTING PLAN
SCALE: 1/4" = 1'-0"

		LABEL
$a	DIMMER	CHECK IN WALL WASH
$b	DIMMER	BUSINESS CENTER
$c	DIMMER	LOBBY COVE
$d	DIMMER	LOBBY CHANDELIER
$e	DIMMER	LOBBY CHANDELIER
$k	DIMMER	CHECK IN DESK LIGHT
$j	DIMMER	EXTERIOR COVE LIGHT
$o	DIMMER	CHECK IN LIGHTS
		1ST CORR, 2ND CORR, 3RD CORR
$p	DIMMER	BAR WALL LIGHTS
$n	DIMMER	LANDSCAPE LIGHTS
$m	DIMMER	FRONT PATIO LIGHTS
$f	DIMMER	LOBBY DOWNLIGHTS
$g	DIMMER	BAR DOWNLIGHTS
$h	DIMMER	BAR DOWNLIGHTS
$i	DIMMER	BAR WALL SCONCE
$j	DIMMER	BAR DECORATIVE LIGHTS

DIMMER SWITCHBANK DETAIL

KEYNOTES

1. CONNECT NEW BATHROOM LIGHTS TO EXISTING BATHROOM LIGHTS BRANCH CIRCUIT. PROVIDE NEW SWITCHING AS SHOWN.
2. LOCATION OF SWITCHBANK. REFER TO DETAIL ON THIS PAGE. COORDINATE INSTALLATION WITH MILLWORK AND ARCHITECT DRAWINGS.
3. EMERGENCY LIGHTING UNIT WITH 90 MINUTE BATTERY BACKUP. CONNECT TO NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF ANY LIGHTING CONTROL DEVICE.

GENERAL NOTES

A. REFER TO THE ARCHITECTURAL DRAWINGS AND THE PHOTOMETRICS DRAWINGS FOR THE LIGHT FIXTURE SCHEDULE, UNLESS OTHERWISE NOTED.

B. ALL EXIT SIGNS, EMERGENCY LIGHTING UNITS AND BATTERY PACKS IN EMERGENCY LIGHT FIXTURES SHALL HAVE BATTERY BACKUP POWER RATED FOR 90 MINUTES.

City of Miami Beach
Fire Prevention Division
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	LOBBY AND POOL	12/03/2013
4	FIELD COORDINATION	5/23/2014
5	BUILDING DEPT COMMENT	6/11/2014
6	BUILDING DEPT. COMMENT	7/11/2014
7	BUILDING DEPT. COMMENT	7/17/2014
8	ARCH. REVISION	9/15/2014
9	FIELD COORDINATION	10/9/2014
10	FIRE DEPT. COMMENT	10/23/2014

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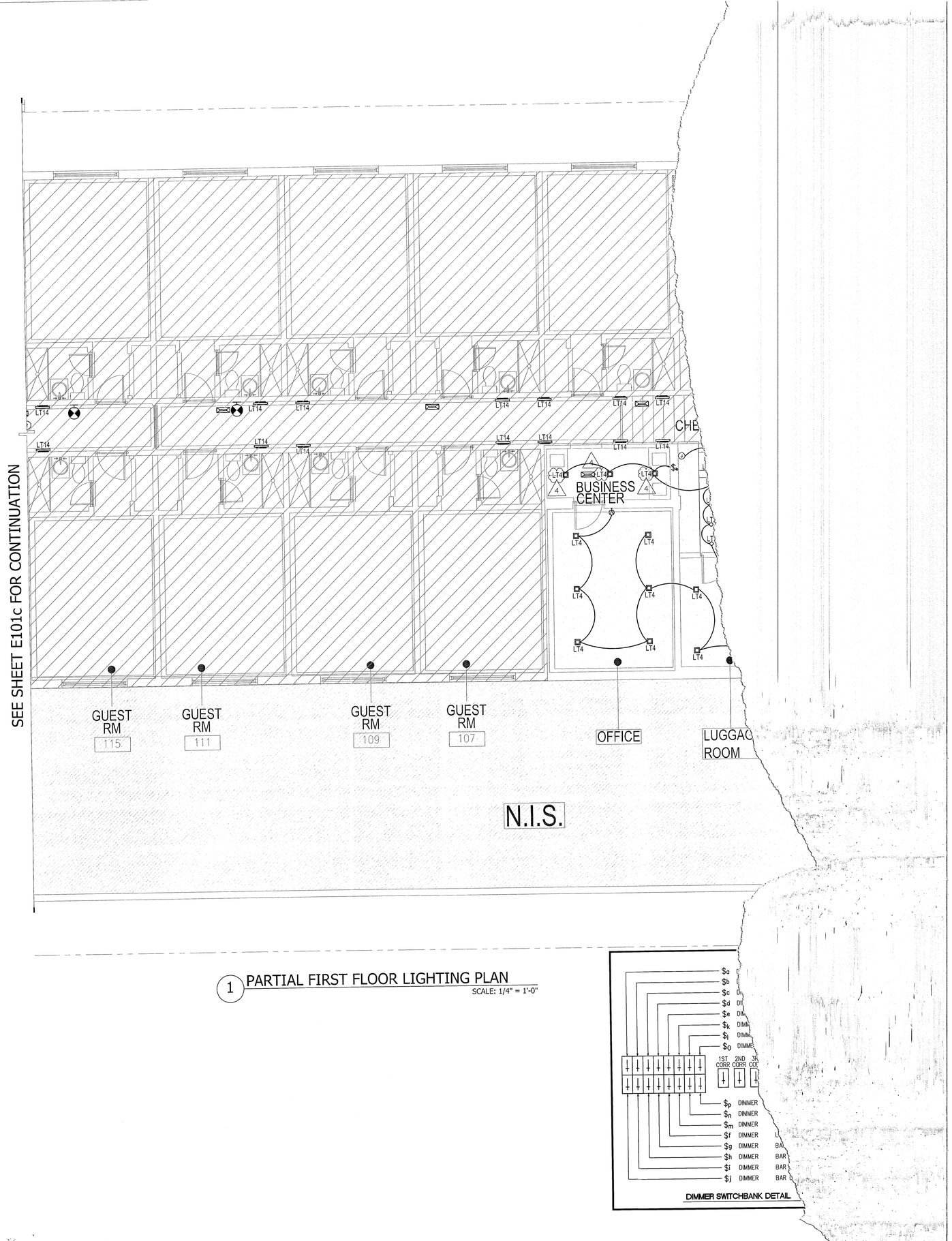
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SHEET TITLE
PARTIAL FIRST FLOOR LIGHTING PLAN

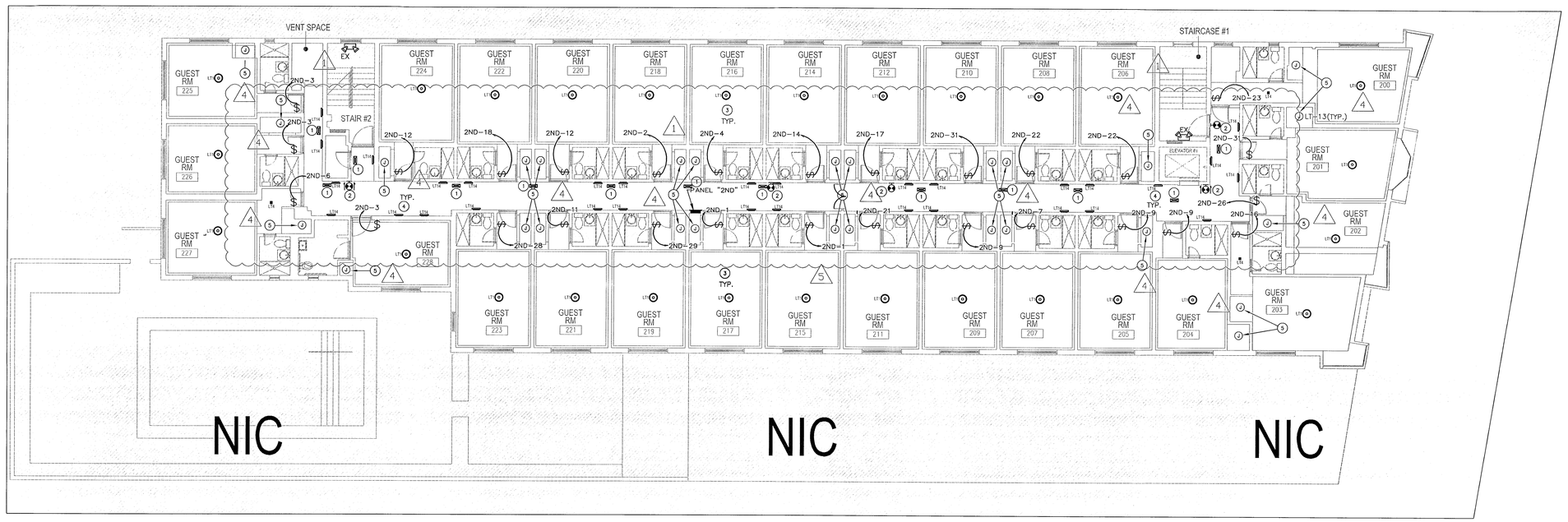
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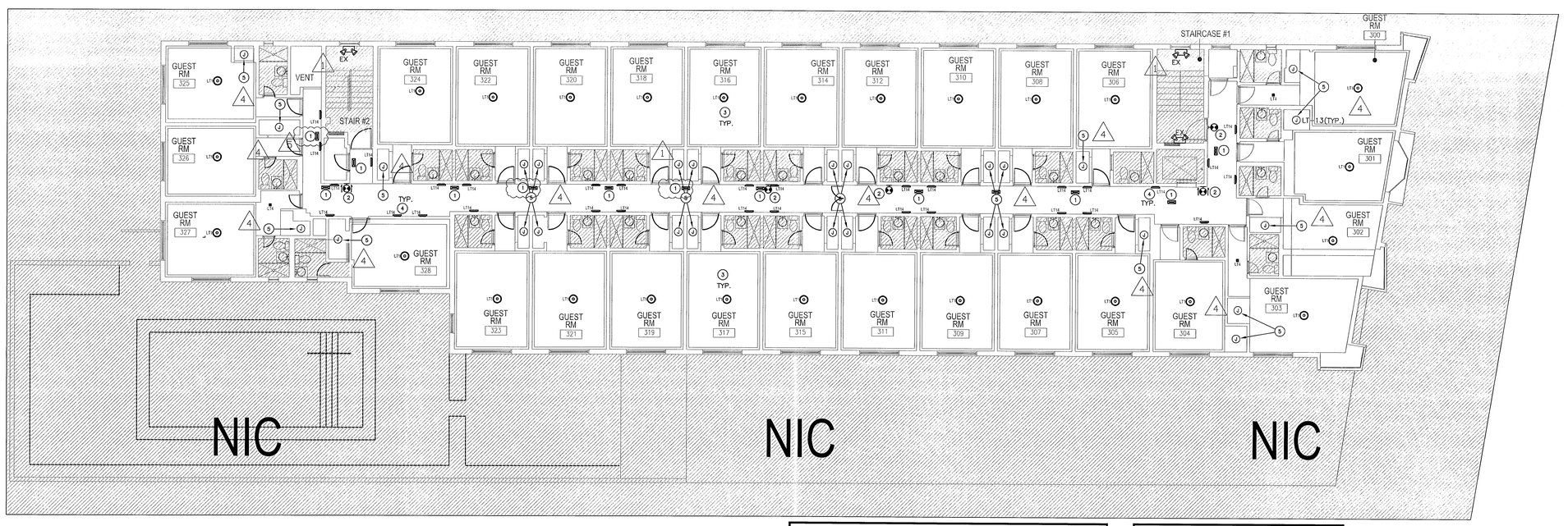
1 PARTIAL FIRST FLOOR LIGHTING PLAN

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



1 SECOND FLOOR LIGHTING PLAN

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



2 THIRD FLOOR LIGHTING PLAN

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

REFER TO ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

DRAWING NOTES

A. NONMETALLIC SHEATHED CABLE (ROMEX) WAS USED IN SOME AREAS IN THE ORIGINAL BRANCH CIRCUIT WIRING FOR THIS PROJECT. THESE AREAS ARE NOT INCLUDED IN THE SCOPE OF WORK. THE EXISTING BRANCH CIRCUIT WIRING WITH NONMETALLIC SHEATHED CABLE IS TO REMAIN AS IS.

B. ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS SHALL BE PROVIDED WITH 90 MINUTE BATTERY BACKUP.

C. CONTRACTOR SHALL PROVIDE COMPLETE FIRE ALARM SHOP DRAWINGS, INCLUDING RISER DIAGRAM AND BATTERY CALCULATIONS, FOR SUBMISSION TO THE BUILDING DEPARTMENT.

KEYNOTES

1. CONNECT NEW CEILING MOUNTED EMERGENCY LIGHTS TO EXISTING CORRIDOR LIGHTS BRANCH CIRCUIT AND AHEAD OF LIGHT SWITCH. PROVIDE EMERGENCY LIGHT WITH 90 MINUTES BATTERY BACK UP. PHILIPS F3NW65KICDC WITH A REMOTE EMERGENCY BATTERY UNIT IN AN ACCESSIBLE SPACE.
2. NEW EXIT LIGHTS TO BE TIED TO EXISTING EXIT LIGHTS BRANCH CIRCUIT AHEAD OF LIGHT SWITCH; PROVIDE EDGE LIT EXIT SIGN WITH 90 MINUTES BATTERY BACK UP.
3. CONNECT NEW LIGHTS TO REPLACE EXISTING LIGHTS IN GUEST ROOMS TO EXISTING BRANCH CIRCUIT AND SWITCHING.
4. CONNECT NEW WALL MOUNTED CORRIDOR LIGHTS TO EXISTING CORRIDOR LIGHTS BRANCH CIRCUIT AND SWITCHING.
5. CAP J-BOX AT CEILING AT THIS LOCATION. PREPARE SPACE FOR NEW CLOSET. INSTALL BATTERY POWER PUCK-LITES AT EACH LOCATION.

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Fire Prevention Division
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STATE OF FLORIDA
GEORGE SANJUAN, P.E.
LICENSE: 66100
DATE: 2/4/2014

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KEYPLAN N.T.S.

REVISIONS

NO.	DESCRIPTION	ISSUE DATE
	ROOMS AND CORRIDORS	11/6/2013
1	PERMIT COMMENTS	12/26/2013
2	2ND ROUND PERMIT COMMENTS	1/30/2014
3	3RD ROUND PERMIT COMMENTS	2/4/2014
4	FIELD COORDINATION	5/23/2014
5	FIRE DEPT. COMMENT	10/23/14

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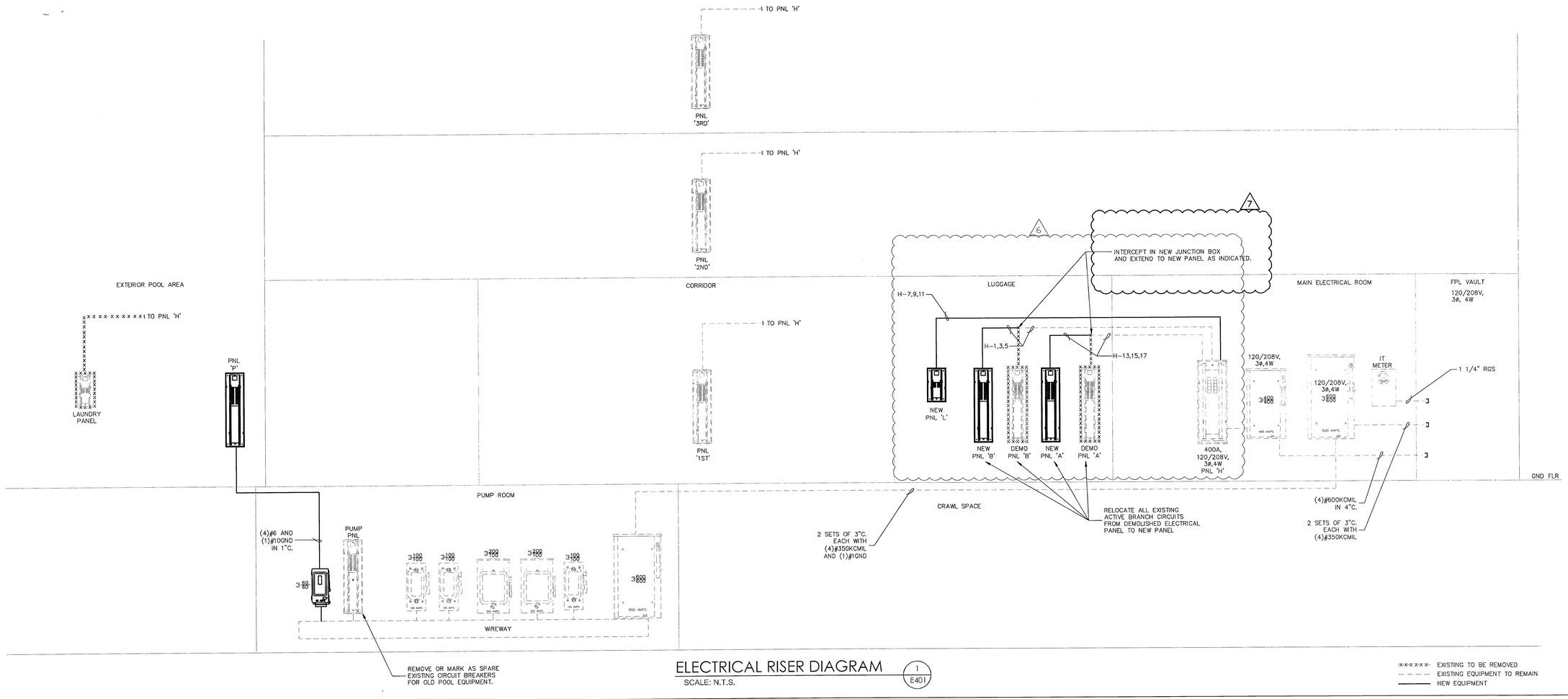
SECOND & THIRD FLOORS LIGHTING PLANS

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ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.

1 / E401

xxxxxx EXISTING TO BE REMOVED
– – – – EXISTING EQUIPMENT TO REMAIN
——— NEW EQUIPMENT

EXISTING PANEL "H" SCHEDULE

LOCATION: SEE FLOOR PLAN — ■ EXISTING ☐ NEW
SPEC: EXISTING — ■ COPPER BUS ☐ ALUMINUM BUS

CKT.	LOAD DESCRIPTION	TYP.	WIRE	GRD.	COND.	POLE/TRIP	KVA A PHASE	KVA B PHASE	KVA C PHASE	POLE/TRIP	COND.	GRD.	WIRE	TYP.	LOAD DESCRIPTION	CKT.
1						30	2.7	2.4		30						2
3	PANEL "B"	E	#10	#10	3/4"	3		2.6	2.4	3	3/4"	#10	#10	E	PANEL "101"	4
5							1.5	1.2	4							6
7	EXISTING EQUIPMENT					60	4.8	6.0		60						8
9	PANEL "L"	E	#6	#10	1"	3		5.4	6.0	3	1"	#10	#6	E	ELEVATOR	10
11							4.7	6.0								12
13	EXISTING EQUIPMENT					100	9.5	6.0		100						14
15	PANEL "A"	E	#3	#8	1-1/4"	3		9.1	6.0	3	1-1/4"	#8	#3	E	PANEL "2ND"	16
17								6.5	6.0							18
19	EXISTING EQUIPMENT					100	7.2	6.0		100						20
21	PANEL "1ST"	E	#3	#8	1-1/4"	3		7.2	6.0	3	1-1/4"	#8	#3	E	PANEL "3RD"	22
23								7.2	6.0							24
							SUBTOTAL	44.6	44.7	40.3						

ALL FEEDER CALCULATIONS ARE BASED ON THWN/THHN CU. NOT MORE THAN 4 CONDUCTORS IN A RACEWAY
TOTAL KVA IS 129.6 KVA
TOTAL AMPERES IS 360.0 AMPS

CIRCUIT TYPE : (E) ARC FAULT (T) TIME SWITCH CONTROL (S) SHUNT TRIP (G) GROUND FAULT (D) DEDICATED (I) ISOLATED GRD.

RATED VOLTAGE= 120/208 VOLTS 3 PHASE 4 WIRE ■ EQPT. GRD. ☐ ISOL. GRD.
FEEDER SIZE IS: ■ CABLE = SEE RISER ☐ BUSWAY
MOUNTING: ☐ SURFACE ■ FLUSH ☐ FREE STANDING ☐ KEYED DOOR
NEUTRAL BUS IS: ☐ HALF SIZE ■ FULL SIZE ☐ K RATED (1.5) ☐ K RATED (2.0)
ENCLOSURE : ☐ NEMA 1 ■ NEMA 3R ☐ NEMA 4X CLASS( ) DIV ( )
PANEL TYPE : ☐ FUSED ☐ CB PLUG IN ■ CB BOLT IN
NOTE:

	POLE	TRIP	TYPE
MAINS: ■ M.L.O. ☐ BREAKER :	—	—	
BRANCH POLES: 42	BRANCH BREAKERS=	10	KAIC
BUS RATING: 400A	BRACING =	10	KAIC
GROUND BAR: ■ EQUIPMENT ☐ ISOLATED ☐ BOTH			
FEED LOCATION: ☐ TOP ■ BOTTOM ☐ FEED THRU			
FED FROM: ■ NORMAL ☐ EMERGENCY ☐ UNINTERRUPTABLE			

NOTES FOR EXISTING BRANCH CIRCUIT PANELS

(P1) EXISTING BRANCH CIRCUIT AND CIRCUIT BREAKER TO REMAIN.

(P2) NEW BRANCH CIRCUIT AND EXISTING CIRCUIT BREAKER WITH LOAD MODIFIED.

6

PANEL "A" SCHEDULE

LOCATION: SEE FLOOR PLAN — ☐ EXISTING ■ NEW
SPEC: SQUARE D, ITE , G.E. — ■ COPPER BUS ☐ ALUMINUM BUS

CKT.	LOAD DESCRIPTION	TYP.	WIRE	GRD.	COND.	POLE/TRIP	KVA A PHASE	KVA B PHASE	KVA C PHASE	POLE/TRIP	COND.	GRD.	WIRE	TYP.	LOAD DESCRIPTION	CKT.
1	COVER FRONT DOOR		12	12	1/2	20	0.6	0.9		20	1/2	12	12		EXISTING EQUIPMENT	2
3	COVE LIGHTING		12	12	1/2	20		1.5	0.5	20	1/2	12	12		OFFICE LIGHTS	4
5	COVE LIGHTING		12	12	1/2	20			1.5 0.8	20	1/2	12	12		EXISTING EQUIPMENT	6
7	EXISTING EQUIPMENT		12	12	1/2	20	0.8	0.9		20	1/2	12	12		CARD ROOM	8
9	FRONT LIGHT		12	12	1/2	20		0.4	0.6	20	1/2	12	12		2ND FLR OUTSIDE SPOTS	10
11	CEILING LHTS ON PORCH		12	12	1/2	20			0.8 0.2	20	1/2	12	12		CLOCK OUTLET	12
13	EXISTING EQUIPMENT		12	12	1/2	20	1.0	0.6		20	1/2	12	12		EXISTING EQUIPMENT	14
15	LOBBY FLOOD LIGHTS		12	12	1/2	20		0.6	0.9	20	1/2	12	12		EXISTING EQUIPMENT	16
17	POST		12	12	1/2	20			0.2 0.8	20	1/2	12	12		MANAGER OFFICE	18
19	CANOPY LIGHTS		12	12	1/2	20	1.2	1.0		20	1/2	12	12		EXISTING EQUIPMENT	20
21	CELLAR LIGHTS		12	12	1/2	20		0.8	1.2	20	1/2	12	12		AIR COND	22
23	SG. OUTLET (LOBBY)		12	12	1/2	20			0.6 1.2	20	1/2	12	12		FRONT SIGN	24
25	OUTSIDE TERRACE		12	12	1/2	20	0.2	0.9		20	1/2	12	12		FRONT OFFICE	26
27	BASE OUTLETS LAST LOBBY		12	12	1/2	20		0.6	0.8	20	1/2	12	12		3RD FLR SPOTS	28
29	EAST LIGHTS (LOBBY)		12	12	1/2	20			0.2 0.2	20	1/2	12	12		MAID CHIMES	30
31	COMPUTER FRONT DESK		12	12	1/2	20	0.8	0.6		20	1/2	12	12		LOBBY LIGHTS	32
33	VENDING MACHINE		12	12	1/2	20		1.2	—	—	—	—	—		SPACE	34
35	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	36
37	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	38
39	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	40
41	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	42
							SUBTOTAL	9.5	9.1	6.5						

ALL FEEDER CALCULATIONS ARE BASED ON THWN/THHN CU. NOT MORE THAN 4 CONDUCTORS IN A RACEWAY
TOTAL KVA IS 25.1 KVA
TOTAL AMPERES IS 70 AMPS

CIRCUIT TYPE : (E) ARC FAULT (T) TIME SWITCH CONTROL (S) SHUNT TRIP (G) GROUND FAULT (D) DEDICATED (I) ISOLATED GRD.

RATED VOLTAGE= 120/208 VOLTS 3 PHASE 4 WIRE ■ EQPT. GRD. ☐ ISOL. GRD.
FEEDER SIZE IS: ■ CABLE = SEE RISER ☐ BUSWAY
MOUNTING: ☐ SURFACE ■ FLUSH ☐ FREE STANDING ☐ KEYED DOOR
NEUTRAL BUS IS: ☐ HALF SIZE ■ FULL SIZE ☐ K RATED (1.5) ■ K RATED (2.0)
ENCLOSURE : ☐ NEMA 1 ■ NEMA 3R ☐ NEMA 4X CLASS( ) DIV ( )
PANEL TYPE : ☐ FUSED ☐ CB PLUG IN ■ CB BOLT IN
NOTE:

	POLE	TRIP	TYPE
MAINS: ■ M.L.O. ☐ BREAKER :	—	—	
BRANCH POLES: 42	BRANCH BREAKERS=	10	KAIC
BUS RATING: 100A	BRACING =	10	KAIC
GROUND BAR: ■ EQUIPMENT ☐ ISOLATED ☐ BOTH			
FEED LOCATION: ☐ TOP ■ BOTTOM ☐ FEED THRU			
FED FROM: ■ NORMAL ☐ EMERGENCY ☐ UNINTERRUPTABLE			

PANEL "B" SCHEDULE

LOCATION: SEE FLOOR PLAN — ☐ EXISTING ■ NEW
SPEC: SQUARE D, ITE , G.E. — ■ COPPER BUS ☐ ALUMINUM BUS

CKT.	LOAD DESCRIPTION	TYP.	WIRE	GRD.	COND.	POLE/TRIP	KVA A PHASE	KVA B PHASE	KVA C PHASE	POLE/TRIP	COND.	GRD.	WIRE	TYP.	LOAD DESCRIPTION	CKT.
1	HALLWAY 2ND FLR LHTS		12	12	1/2	20	1.0	0.6		20	1/2	12	12		EXIT	2
3	HALLWAY 3RD FLR LHTS		12	12	1/2	20		1.0	0.6	20	1/2	12	12		EXIT	4
5	1ST FLR EXIT PL FIRE ALARM		12	12	1/2	20			0.5 1.0	20	1/2	12	12		HALLWAY 1ST FLR LHTS	6
7	FIRE EXIT LOBBY		12	12	1/2	20	0.5	0.6		20	1/2	12	12		FRONT STAIRS	8
9	SPACE		—	—	—	—	—	—	1.0	20	1/2	12	12		DOWNSTAIRS	10
11	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	12
13	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	14
15	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	16
17	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	18
							SUBTOTAL	2.7	2.6	1.5						

ALL FEEDER CALCULATIONS ARE BASED ON THWN/THHN CU. NOT MORE THAN 4 CONDUCTORS IN A RACEWAY
TOTAL KVA IS 6.8 KVA
TOTAL AMPERES IS 19 AMPS

CIRCUIT TYPE : (E) ARC FAULT (T) TIME SWITCH CONTROL (S) SHUNT TRIP (G) GROUND FAULT (D) DEDICATED (I) ISOLATED GRD.

RATED VOLTAGE= 120/208 VOLTS 3 PHASE 4 WIRE ■ EQPT. GRD. ☐ ISOL. GRD.
FEEDER SIZE IS: ■ CABLE = SEE RISER ☐ BUSWAY
MOUNTING: ☐ SURFACE ■ FLUSH ☐ FREE STANDING ☐ KEYED DOOR
NEUTRAL BUS IS: ☐ HALF SIZE ■ FULL SIZE ☐ K RATED (1.5) ■ K RATED (2.0)
ENCLOSURE : ■ NEMA 1 ☐ NEMA 3R ☐ NEMA 4X CLASS( ) DIV ( )
PANEL TYPE : ☐ FUSED ☐ CB PLUG IN ■ CB BOLT IN
NOTE:

	POLE	TRIP	TYPE
MAINS: ■ M.L.O. ☐ BREAKER :	—	—	
BRANCH POLES: 18	BRANCH BREAKERS=	10	KAIC
BUS RATING: 60A	BRACING =	10	KAIC
GROUND BAR: ■ EQUIPMENT ☐ ISOLATED ☐ BOTH			
FEED LOCATION: ☐ TOP ■ BOTTOM ☐ FEED THRU			
FED FROM: ■ NORMAL ☐ EMERGENCY ☐ UNINTERRUPTABLE			

PANEL "P" SCHEDULE

LOCATION: SEE FLOOR PLAN — ☐ EXISTING ■ NEW
SPEC: SQUARE D, ITE , G.E. — ■ COPPER BUS ☐ ALUMINUM BUS

CKT.	LOAD DESCRIPTION	TYP.	WIRE	GRD.	COND.	POLE/TRIP	KVA A PHASE	KVA B PHASE	KVA C PHASE	POLE/TRIP	COND.	GRD.	WIRE	TYP.	LOAD DESCRIPTION	CKT.
1	POOL AREA LIGHTS	(S)	12	12	1/2	20	0.8	0.6		20	1/2	12	12		BATHROOM RECS	2
3	POOL AREA LIGHTS	(S)	12	12	1/2	20		0.8	1.0	20	1/2	12	12	(G)	POOL AREA RECS	4
5	POOL AREA LIGHTS	(S)	12	12	1/2	20			0.8 1.0	20	1/2	12	12		ELECTRONIC DOOR OPENER	6
7	SPARE		—	—	—	20	0.8	0.9		20	1/2	12	12		GARDEN GFI RECS	8
9	POOL AREA LIGHTS	(S)	12	12	1/2	20		0.8	1.0	3/20	1/2	12	12	(G)	POOL CONTROL PANEL	10
11	POOL AREA LIGHTS	(S)	12	12	1/2	20			0.8 1.0							12
13	SPARE		—	—	—	20	0.8	1.0								14
15	SPARE		—	—	—	20		0.8	0.8	20	1/2	12	12	(P)	POOL LIGHTS	16
17	POOL AREA LIGHTS	(S)	12	12	1/2	20			0.8 —	—	—	—	—		SPACE	18
19	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	20
21	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	22
23	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	24
25	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	26
27	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	28
29	SPACE		—	—	—	—	—	—	—	—	—	—	—		SPACE	30
							SUBTOTAL	4.9	5.2	4.4						

ALL FEEDER CALCULATIONS ARE BASED ON THWN/THHN CU. NOT MORE THAN 4 CONDUCTORS IN A RACEWAY
TOTAL KVA IS 14.5 KVA
TOTAL AMPERES IS 40.3 AMPS

CIRCUIT TYPE : (E) ARC FAULT (T) TIME SWITCH CONTROL (S) SHUNT TRIP (G) GROUND FAULT (D) DEDICATED (I) ISOLATED GRD.

RATED VOLTAGE= 120/208 VOLTS 3 PHASE 4 WIRE ■ EQPT. GRD. ☐ ISOL. GRD.
FEEDER SIZE IS: ■ CABLE = SEE RISER ☐ BUSWAY
MOUNTING: ■ SURFACE ☐ FLUSH ☐ FREE STANDING ☐ KEYED DOOR
NEUTRAL BUS IS: ☐ HALF SIZE ■ FULL SIZE ☐ K RATED (1.5) ☐ K RATED (2.0)
ENCLOSURE : ☐ NEMA 1 ■ NEMA 3R ☐ NEMA 4X CLASS( ) DIV ( )
PANEL TYPE : ☐ FUSED ☐ CB PLUG IN ■ CB BOLT IN
NOTE:

	POLE	TRIP	TYPE
MAINS: ■ M.L.O. ☐ BREAKER :	—	—	
BRANCH POLES: 30	BRANCH BREAKERS=	10	KAIC
BUS RATING: 100A	BRACING =	10	KAIC
GROUND BAR: ■ EQUIPMENT ☐ ISOLATED ☐ BOTH			
FEED LOCATION: ☐ TOP ■ BOTTOM ☐ FEED THRU			
FED FROM: ■ NORMAL ☐ EMERGENCY ☐ UNINTERRUPTABLE			

PANEL "L" SCHEDULE

LOCATION: SEE FLOOR PLAN — ☐ EXISTING ■ NEW
SPEC: SQUARE D, ITE , G.E. — ■ COPPER BUS ☐ ALUMINUM BUS

CKT.	LOAD DESCRIPTION	TYP.	WIRE	GRD.	COND.	POLE/TRIP	KVA A PHASE	KVA B PHASE	KVA C PHASE	POLE/TRIP	COND.	GRD.	WIRE	TYP.	LOAD DESCRIPTION	CKT.
1	OFFICE RECS		12	12	1/2	20	1.0	0.8		20	1/2	12	12		CHECK IN RECS	2
3	ATM		12	12	1/2	20			1.0 1.2	20	1/2	12	12		BAR ICE MAKER	4
5	BUSINESS CENTER PRINTER		12	12	1/2	20			1.0 0.8	20	1/2	12	12		BACKBAR COOLER	6
7	BUSINESS CENTER COMPUTERS		12	12	1/2	20	0.8	0.6		20	1/2	12	12		FROST CHILLER	8
9	BATHROOM GFIS		12	12	1/2	20		0.4	0.8	20	1/2	12	12		BACKBAR COOLER	10
11	BAR POS		12	12	1/2	20			1.0 1.1	20	1/2	12	12		BAR GLASSWARE	12
13	BAR GENERAL RECS		12	12	1/2	20	0.4	1.2		20	1/2	12	12		BAR POS	14
15	BAR LIGHTS		12	12	1/2	20		1.2	0.8	20	1/2	12	12		BAR LIGHTS	16
17	BAR LIGHTS		12	12	1/2	20			0.8 —	—	—	—	—		SPACE	18
							SUBTOTAL	4.8	5.4	4.7						

ALL FEEDER CALCULATIONS ARE BASED ON THWN/THHN CU. NOT MORE THAN 4 CONDUCTORS IN A RACEWAY
TOTAL KVA IS 14.9 KVA
TOTAL AMPERES IS 41 AMPS

CIRCUIT TYPE : (E) ARC FAULT (T) TIME SWITCH CONTROL (S) SHUNT TRIP (G) GROUND FAULT (D) DEDICATED (I) ISOLATED GRD.

RATED VOLTAGE= 120/208 VOLTS 3 PHASE 4 WIRE ■ EQPT. GRD. ☐ ISOL. GRD.
FEEDER SIZE IS: ■ CABLE = SEE RISER ☐ BUSWAY
MOUNTING: ☐ SURFACE ■ FLUSH ☐ FREE STANDING ☐ KEYED DOOR
NEUTRAL BUS IS: ☐ HALF SIZE ■ FULL SIZE ☐ K RATED (1.5) ☐ K RATED (2.0)
ENCLOSURE : ☐ NEMA 1 ■ NEMA 3R ☐ NEMA 4X CLASS( ) DIV ( )
PANEL TYPE : ☐ FUSED ☐ CB PLUG IN ■ CB BOLT IN
NOTE:

	POLE	TRIP	TYPE
MAINS: ■ M.L.O. ☐ BREAKER :	—	—	
BRANCH POLES: 18	BRANCH BREAKERS=	10	KAIC
BUS RATING: 60A	BRACING =	10	KAIC
GROUND BAR: ■ EQUIPMENT ☐ ISOLATED ☐ BOTH			
FEED LOCATION: ☐ TOP ■ BOTTOM ☐ FEED THRU			
FED FROM: ■ NORMAL ☐ EMERGENCY ☐ UNINTERRUPTABLE			

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PJT. MGR: SHAWN WALKER
PROJECT #: 130818
GEORGE SANJUAN, PE
FLORIDA LICENSE #66100
DATE: 12/3/2013

City of Miami Beach
Fire Prevention
PLANS APPROVED

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.

REVISIONS

NO.	DESCRIPTION	ISSUE DATE
	LOBBY AND POOL	12/03/2013
4	FIELD COORDINATION	5/23/2014
5	BUILDING DEPT COMMENT	6/11/2014
6	BUILDING DEPT. COMMENT	7/11/2014
7	BUILDING DEPT. COMMENT	7/17/2014

PERMIT SET

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Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: DECEMBER 3, 2013
SCALE:

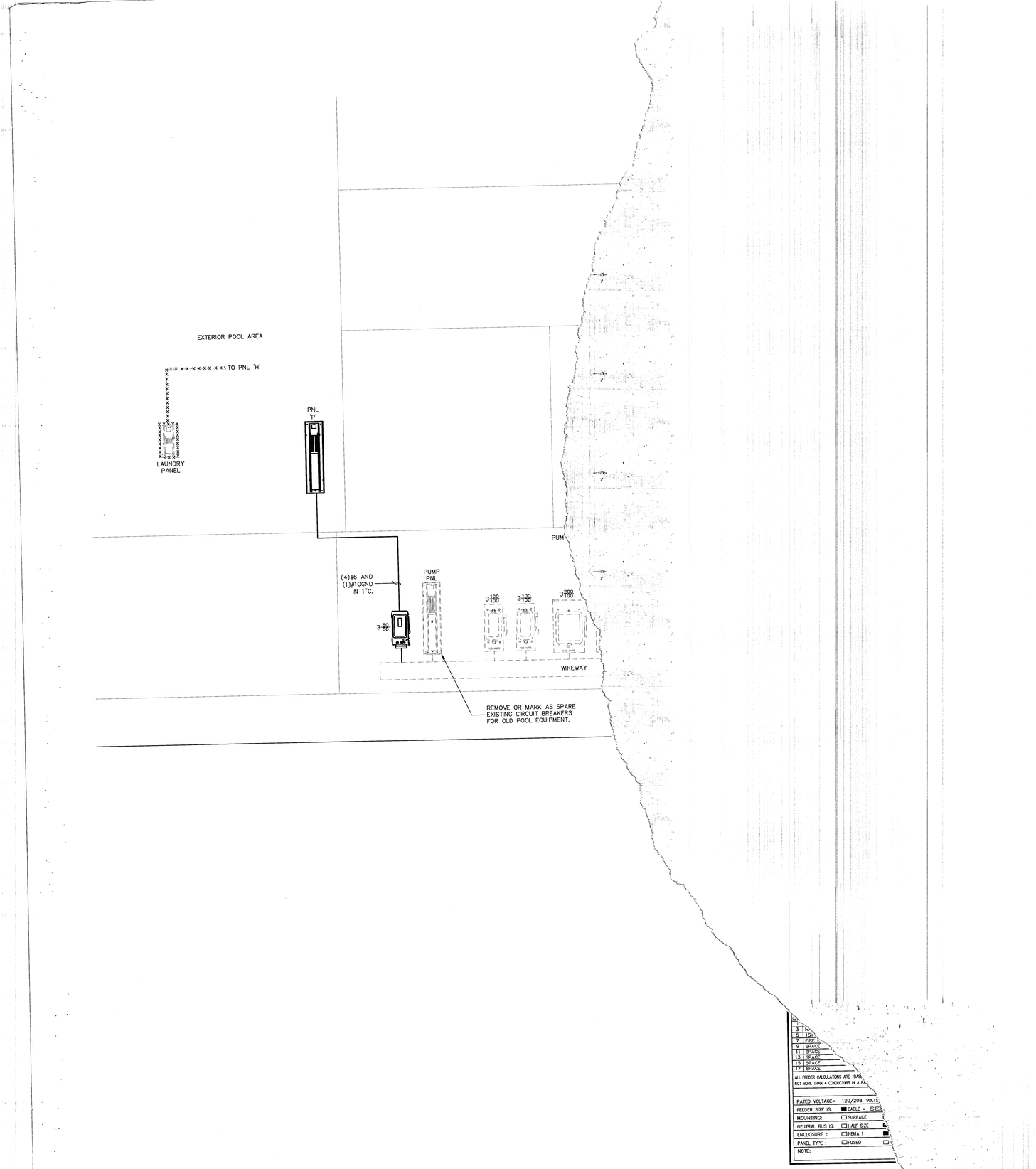
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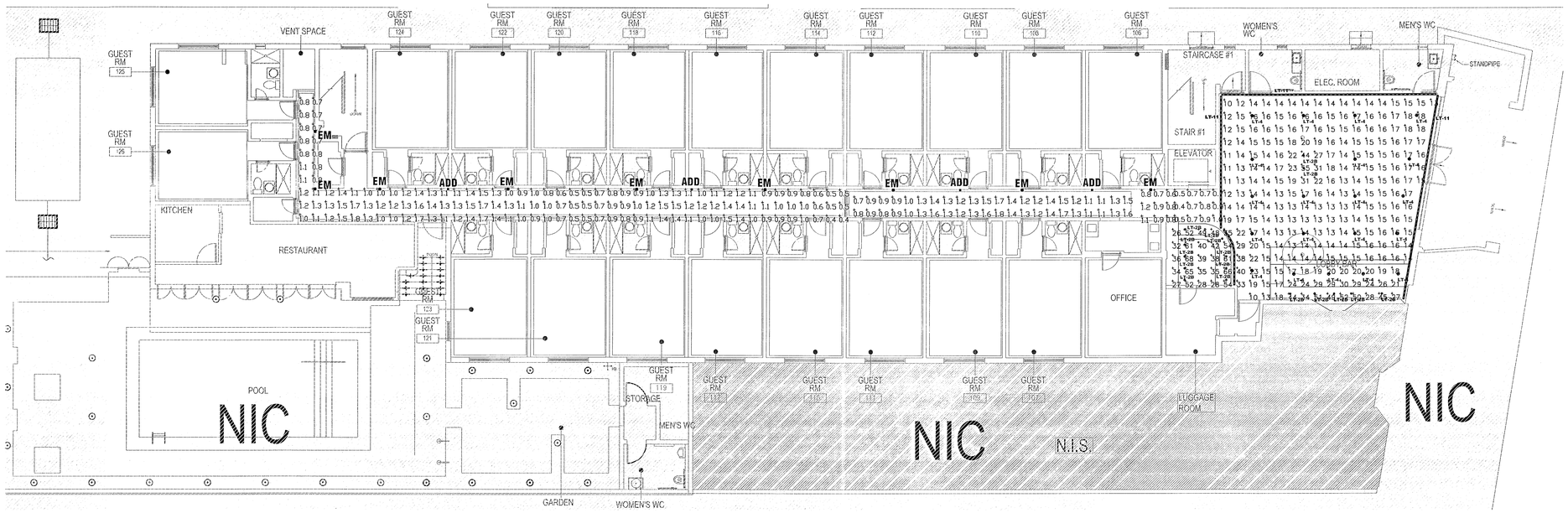
ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES

SHEET NUMBER

E401

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EXTERIOR POOL AREA
TO PNL 'H'
LAUNDRY PANEL
PNL 'P'
PUMP PNL
(4)#6 AND (1)#10GND IN 1"C.
3-60/60
3-100/100
3-100/100
3-200/100
WIREWAY
REMOVE OR MARK AS SPARE EXISTING CIRCUIT BREAKERS FOR OLD POOL EQUIPMENT.
3 Ho
5 TSU
7 FIRE S
9 SPACE
11 SPACE
13 SPACE
15 SPACE
17 SPACE
ALL FEEDER CALCULATIONS ARE BAS
NOT MORE THAN 4 CONDUCTORS IN A RA
RATED VOLTAGE= 120/208 VOLTS
FEEDER SIZE IS: ■ CABLE = SE
MOUNTING: □ SURFACE
NEUTRAL BUS IS: □ HALF SIZE
ENCLOSURE : □ NEMA 1
PANEL TYPE : □ FUSED
NOTE:



1 FIRST FLOOR EMERGENCY PHOTOMETRICS PLAN

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

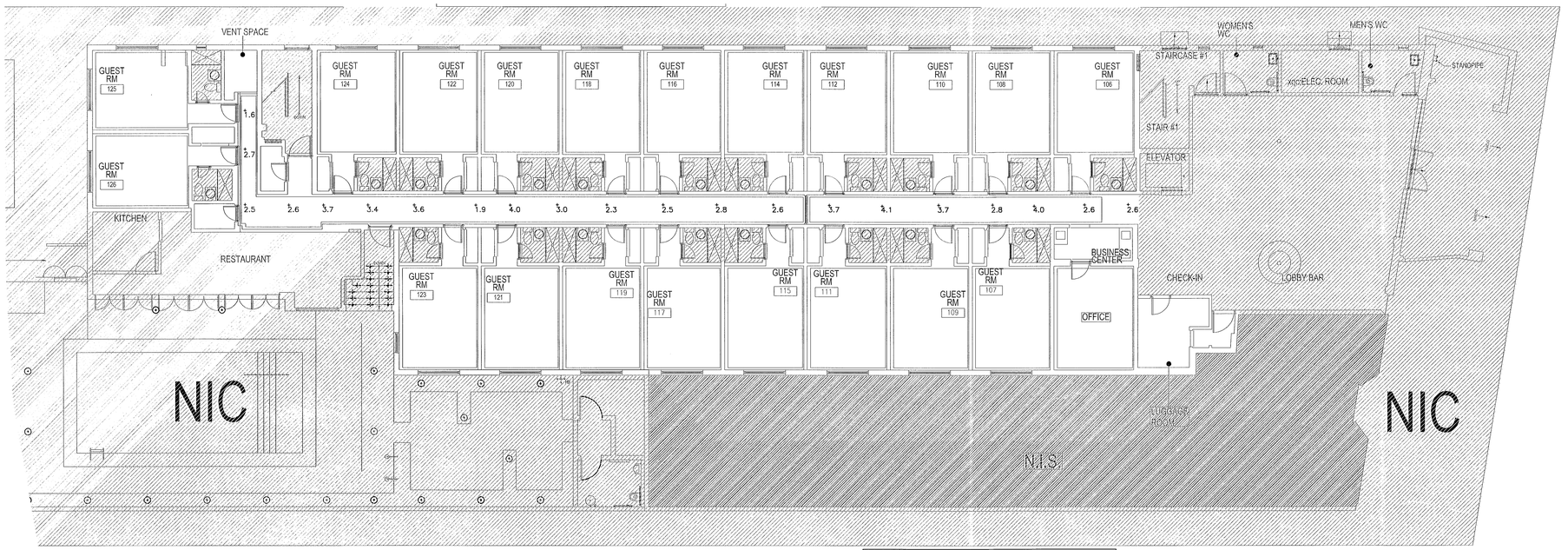
Luminaire Schedule							
Project: SAN JUAN HOTEL - LOBBY MIAMI BEACH, FL 10/23/2014							
Symbol	Label	Description	Lumens/Lamp	LLD	LDD	LLF	Lum. Watts	Total Watts
	LT-4	LITHONIA LK301-FINISH-BR20 LED MH: 9' CEILING MOUNT A.F.G.	N.A.	0.900	0.950	0.855	8.06	161.2
	LT-2B	DELTA ULTRA S REO 3033 (6 279 71 8122) MH: 9' CEILING MOUNT A.F	660	0.900	0.950	0.855	7	119
	LT-11	TIVOLI CVL 120-DM-27-LN6	N.A.	0.900	0.950	0.855	6.8	503.2

Calculation Summary					
Project: SAN JUAN HOTEL - LOBBY MIAMI BEACH, FL 10/23/2014					
Label	Avg	Max	Min	Avg/Min	Max/Min
LOBBY	20.06	68	10	2.01	6.80

Luminaire Schedule						
Project: SAN JUAN HOTEL - 1ST FLOOR EGRESS PHOTOMETRICS MIAMI BEACH, FL 02-04-2014						
Symbol	Label	Description	Lumens/Lamp	LLF	Lum. Watts	Total Watts
	EM	BEGHELLI DECO	90	1.000	20	240
	ADD	BEGHELLI DECO	90	1.000	20	140

Calculation Summary						
Project: SAN JUAN HOTEL - 1ST FLOOR EGRESS PHOTOMETRICS MIAMI BEACH, FL 02-04-2014						
Label	Avg	Max	Min	Avg/Min	Max/Min
CORRIDOR	1.08	1.8	0.4	2.70	4.50
LOBBY	0.99	1.5	0.4	2.48	3.75

5 NEW SHEET ADDED



Calculation Summary					
Project: SAN JUAN HOTEL - TYPICAL OF 2 FLOORS EGRESS REV 1 CODE 10-22-2014					
Label	Avg	Max	Min	Avg/Min	Max/Min
CORRIDOR 2ND FLOOR_Floor	2.8	4.1	1.6	1.75	2.56

2 FIRST FLOOR NORMAL PHOTOMETRICS PLAN

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

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.

REVISIONS

NO.	DESCRIPTION	ISSUE DATE
	ROOMS AND CORRIDORS	11/6/2013
1	PERMIT COMMENTS	12/26/2013
2	2ND ROUND PERMIT COMMENTS	1/30/2014
3	3RD ROUND PERMIT COMMENTS	2/4/2014
4	FIELD COORDINATION	5/23/2014
5	FIRE DEPT. COMMENT	10/23/14

PERMIT SET

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JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: NOVEMBER 6, 2013
SCALE:

SHEET TITLE

FIRST FLOOR EMERGENCY AND NORMAL PHOTOMETRICS

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

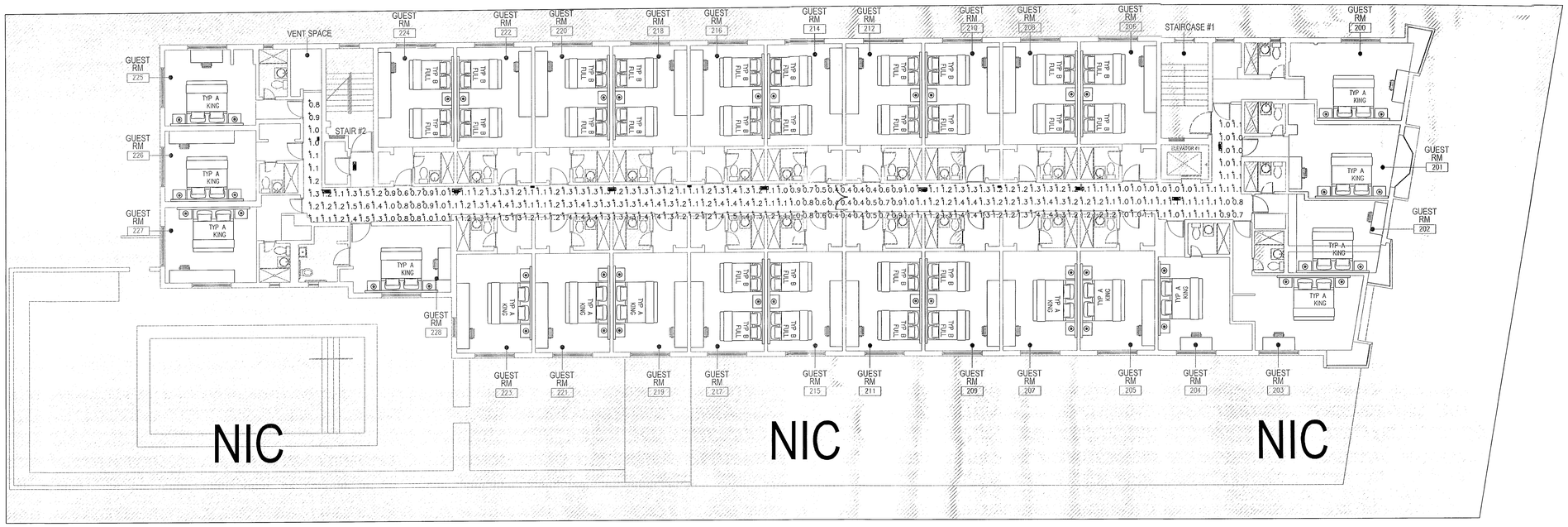
DELTA G CONSULTING ENGINEERS, INC.
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PROJECT #: 130818
GEORGE RAMIAN, P.E.
FLORIDA LICENSE 19481
DATE: 2/4/2014

SHEET NUMBER

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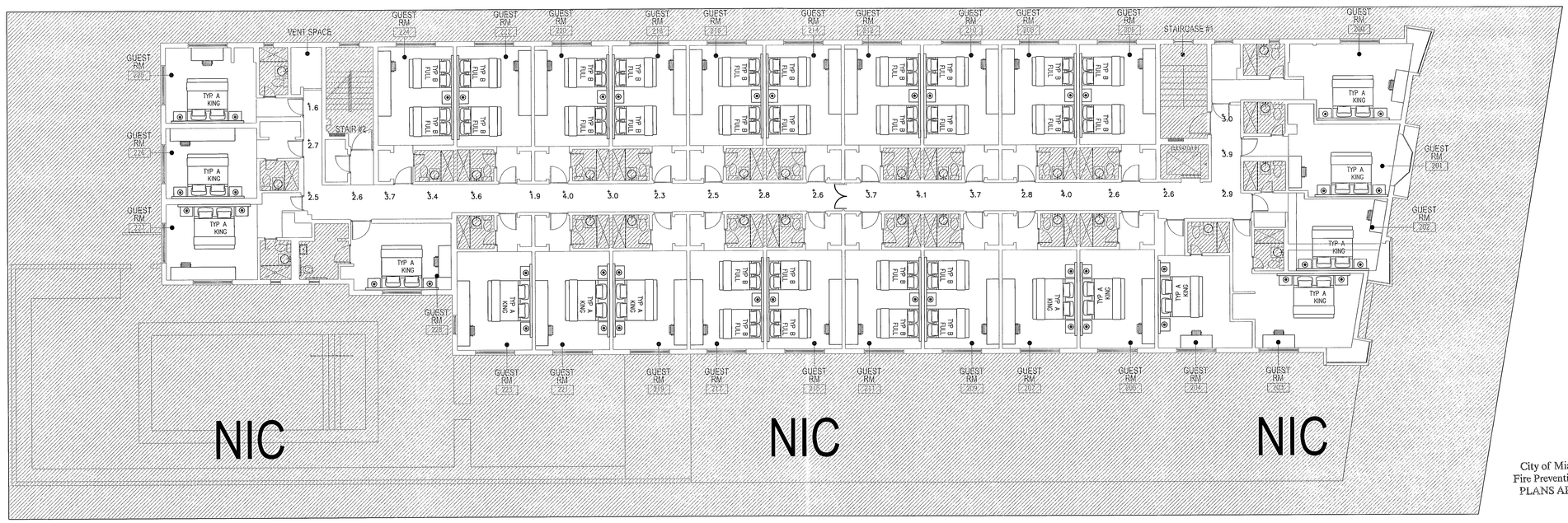
1 SECOND FLOOR EMERGENCY PHOTOMETRICS PLAN

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

Luminaire Schedule						
Project: SAN JUAN HOTEL - TYPICAL OF 2 FLOORS EGRESS REV 1 CODE 10-22-2014						
Symbol	Label	Description	Lumens/Lamp	LLF	Lum. Watts	Total Watts
→	ADD	BEGHELLI DECO	90	1.000	20	80
→	EM	BEGHELLI DECO	90	1.000	20	180

Calculation Summary					
Project: SAN JUAN HOTEL - TYPICAL OF 2 FLOORS EGRESS REV 1 CODE 10-22-2014					
Label	Avg	Max	Min	Avg/Min	Max/Min
CORRIDOR 2ND FLOOR_Floor	1.11	1.6	0.4	2.78	4.00

5 NEW SHEET ADDED



2 SECOND FLOOR NORMAL PHOTOMETRICS PLAN

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

Calculation Summary					
Project: SAN JUAN HOTEL - TYPICAL OF 2 FLOORS EGRESS REV 1 CODE 10-22-2014					
Label	Avg	Max	Min	Avg/Min	Max/Min
CORRIDOR 2ND FLOOR_Floor	2.8	4.1	1.6	1.75	2.56

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

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PROJECT #: 130818
STATE OF FLORIDA
GEORGE GIANNANI, PE
FLORIDA LICENSE NO. 44100
DATE: 2/4/2014

SAN JUAN HOTEL
1680 COLLINS AVE.
MIAMI BEACH, FL

KEYPLAN N.T.S.

REVISIONS		
NO.	DESCRIPTION	ISSUE DATE
	ROOMS AND CORRIDORS	11/6/2013
1	PERMIT COMMENTS	12/26/2013
2	2ND ROUND PERMIT COMMENTS	1/30/2014
3	3RD ROUND PERMIT COMMENTS	2/4/2014
4	FIELD COORDINATION	5/23/2014
5	FIRE DEPT. COMMENT	10/23/14

PERMIT SET

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Boston Miami

JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: NOVEMBER 6, 2013
SCALE:

SHEET TITLE

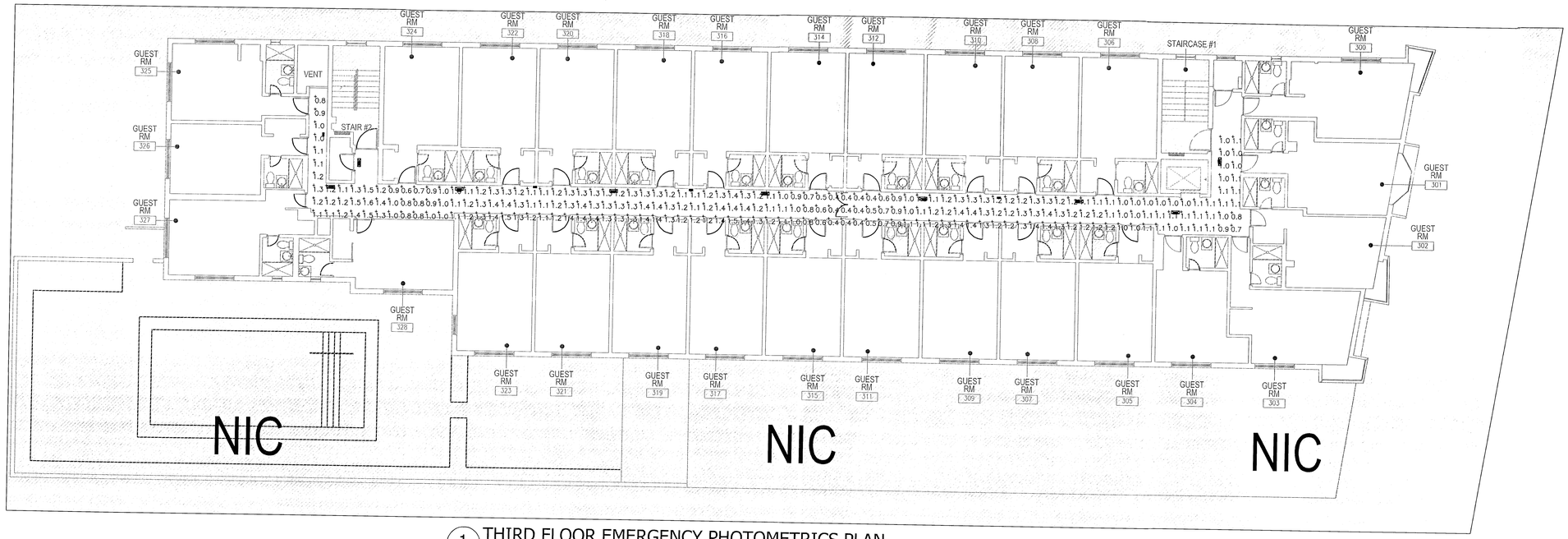
SECOND FLOOR EMERGENCY AND NORMAL PHOTOMETRICS

SHEET NUMBER

EPH102

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1 THIRD FLOOR EMERGENCY PHOTOMETRICS PLAN

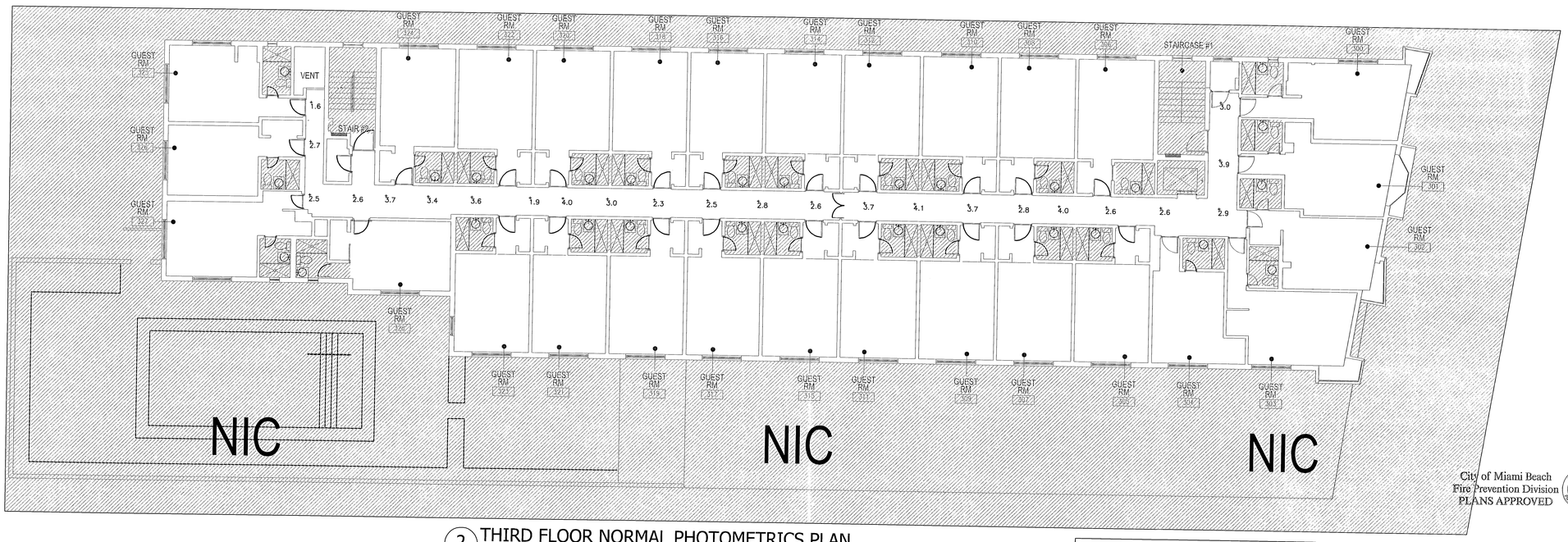
SCALE: 1/8" = 1'-0"

Luminaire Schedule						
Project: SAN JUAN HOTEL - TYPICAL OF 2 FLOORS EGRESS REV 1 CODE 10-22-2014						
Symbol	Label	Description	Lumens/Lamp	LLF	Lum. Watts	Total Watts
→	ADD	BEGHELLI DECO	90	1.000	20	80
→	EM	BEGHELLI DECO	90	1.000	20	180

Calculation Summary					
Project: SAN JUAN HOTEL - TYPICAL OF 2 FLOORS EGRESS REV 1 CODE 10-22-2014					
Label	Avg	Max	Min	Avg/Min	Max/Min
CORRIDOR 2ND FLOOR_Floor	1.11	1.6	0.4	2.78	4.00

5

NEW SHEET ADDED



2 THIRD FLOOR NORMAL PHOTOMETRICS PLAN

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

Calculation Summary					
Project: SAN JUAN HOTEL - TYPICAL OF 2 FLOORS EGRESS REV 1 CODE 10-22-2014					
Label	Avg	Max	Min	Avg/Min	Max/Min
CORRIDOR 2ND FLOOR_Floor	2.8	4.1	1.6	1.75	2.56

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

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PJT. MGR: SHAWN WALKER
PROJECT #: 130818

GEORGE ZANIYAR, P.E.
FLORIDA LICENSE #46100
DATE: 2/4/2014

SAN JUAN HOTEL
1680 COLLINS AVE
MIAMI BEACH, FL

KEYPLAN N.T.S.

REVISIONS

NO.	DESCRIPTION	ISSUE DATE
	ROOMS AND CORRIDORS	11/6/2013
1	PERMIT COMMENTS	12/26/2013
2	2ND ROUND PERMIT COMMENTS	1/30/2014
3	3RD ROUND PERMIT COMMENTS	2/4/2014
4	FIELD COORDINATION	5/23/2014
5	FIRE DEPT. COMMENT	10/23/14

PERMIT SET

NORTH SEAL

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JOB NUMBER: 13023.00
CHECKED BY:
ISSUE DATE: NOVEMBER 6, 2013
SCALE:

SHEET TITLE

THIRD FLOOR EMERGENCY AND NORMAL PHOTOMETRICS PLANS

SHEET NUMBER

EPH103

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Electrical Plans Examiner

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SAN JUAN HOTEL

1680 Collins Avenue- Miami Beach, FL 33149

AQUATICS DRAWINGS FOR
SWIMMING POOL

AQUADYNAMICS DESIGN GROUP, INC
AQUATIC ENGINEERING CONSULTANTS

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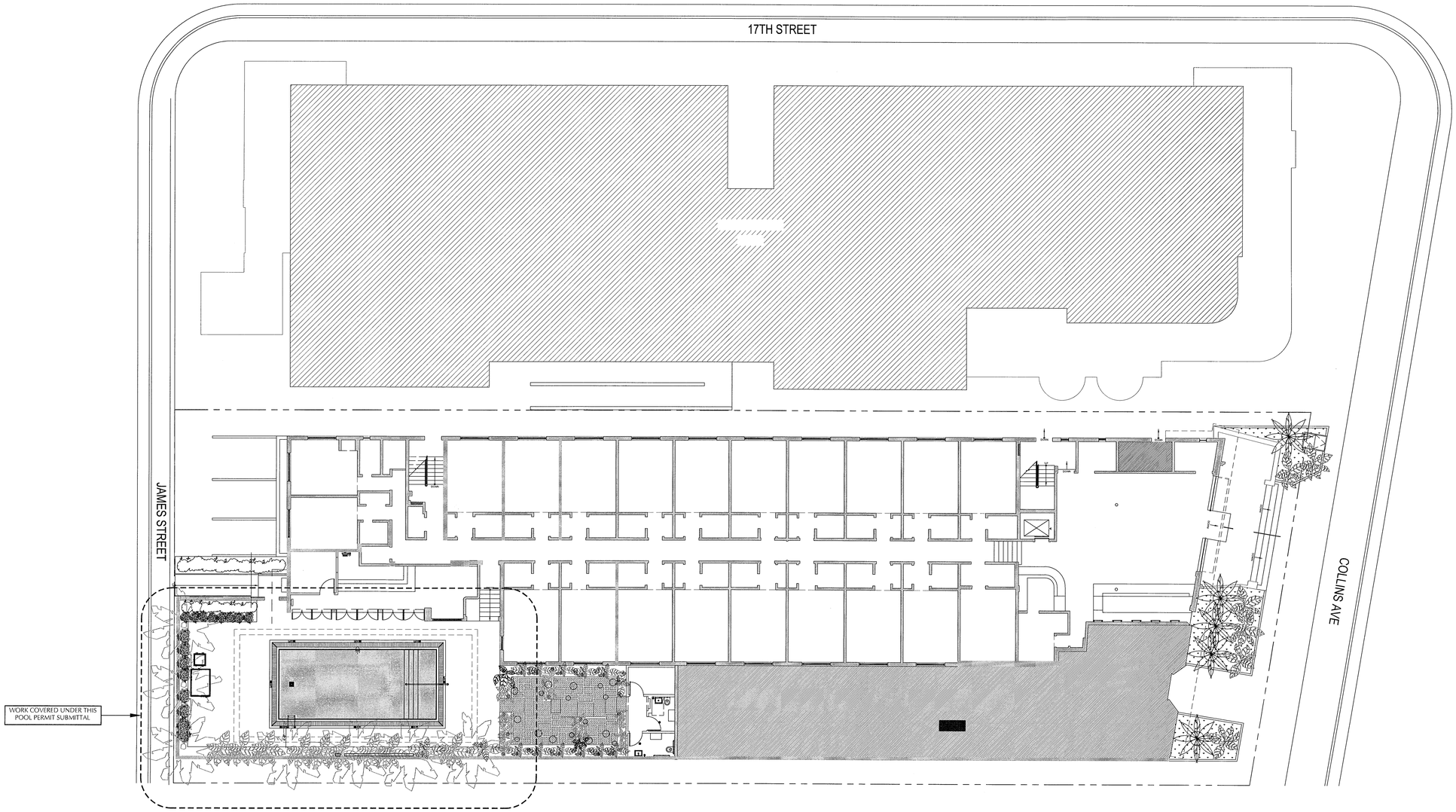
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SP-1.03:	SWIMMING POOL LAYOUT PLAN
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REFRENCE ONLY

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SEPTEMBER 13th, 2013



POOL LOCATION PLAN (GROUND LEVEL)
SCALE: 1" = 10'-0"

City of Miami Beach
Fire Prevention Division
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AQUADYNAMICS
DESIGN GROUP, INC.
AQUATIC ENGINEERING CONSULTANTS
APPLIED RESEARCH & ANALYSIS FOR SOLUTIONS, VARIANCES, PERMITTING, CUSTOM RESIDENTIAL DESIGN
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SWIMMING POOL
1680 Collins Avenue- Miami Beach, FL 33149

DRAWING TITLE:
SWIMMING POOL
LOCATION PLAN

REVISIONS

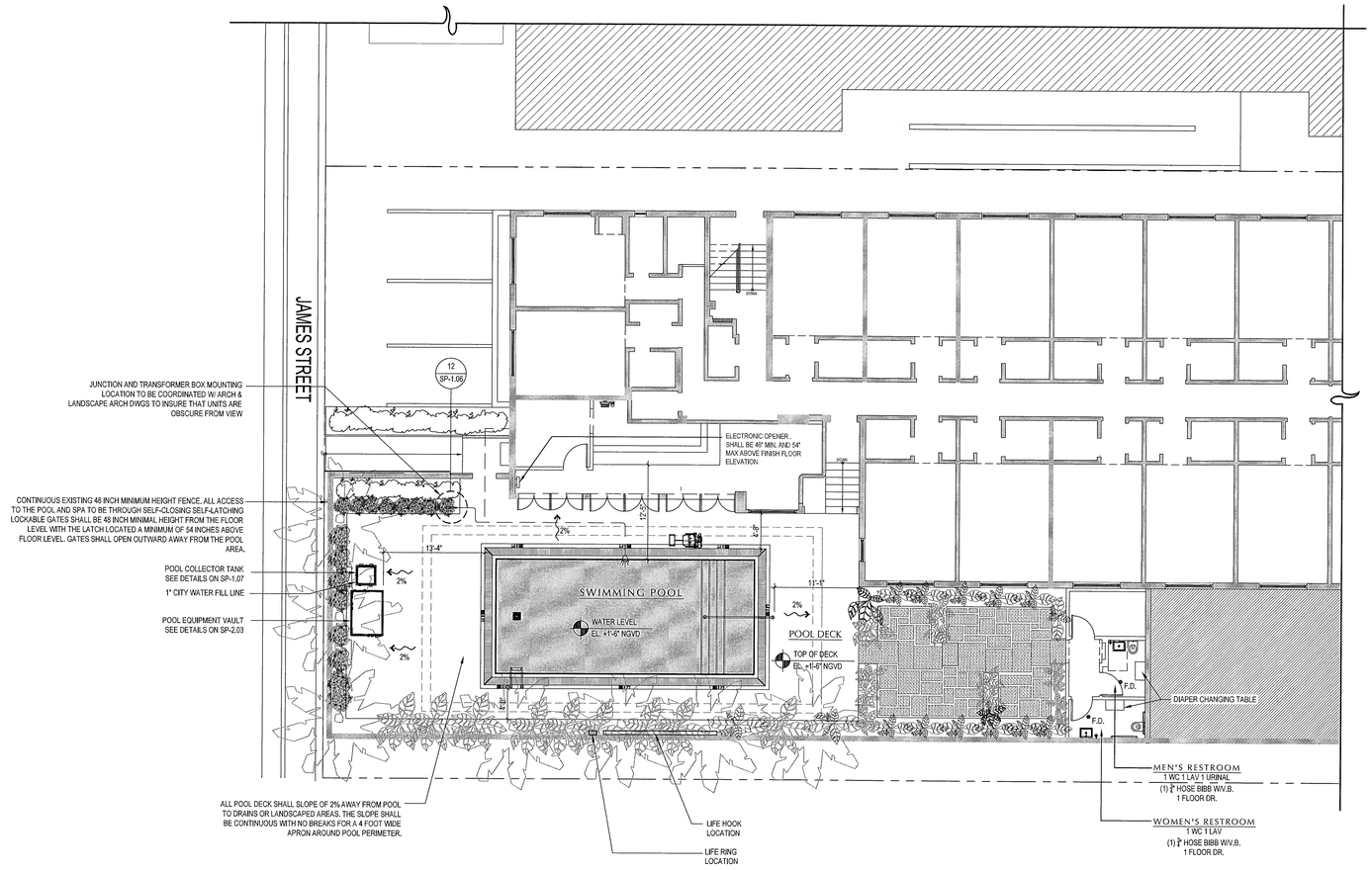
SEAL:

OFELIA TABOADA, P.E.
PROFESSIONAL REG. No. 55339
CIVIL ENGINEER

DATE: 06-15-2012	DRAWN BY: A.M.
SCALE: AS NOTED	SHEET: 2 OF 8

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September 12, 2013

SP-1.01



POOL AREA PLAN

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

NOTES:

1. STORAGE OF CHEMICALS SHALL BE LOCATED IN AN ENCLOSED LOCKABLE AREA TO PREVENT UNAUTHORIZED ACCESS.
2. ALL POOL SURFACES SHALL HAVE A SMOOTH LIKE SLIP RESISTANT FINISH.
3. ALL ELECTRICAL WORK SHALL BE DONE BY QUALIFIED LICENSED CONTRACTORS AND IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE 2011.
4. ELECTRICAL EQUIPMENT WIRING AND INSTALLATION INCLUDING THE GROUNDING OF POOL COMPONENTS TO CONFORM WITH THE NATIONAL FIRE PROTECTION ASSOCIATION 70, NATIONAL ELECTRICAL CODE (NEC), 2008 AND WITH APPLICABLE LOCAL CODES.
5. ALL POOL PIPING SHALL BE PVC PW SCHEDULE 40 NON-THREADED NSF APPROVED. ALL PIPE SHALL DISPLAY THE NSF-PW LOGO.
6. DEPTH MARKERS SHALL INDICATE THE DEPTH AT NORMAL OPERATING WATER LEVEL, WITHIN 3 INCHES, WHEN MEASURED 3 FEET FROM THE WALL OF THE POOL. SYMMETRICAL POOL DESIGNS WITH THE DEEP POINT AT THE CENTER, MAY BE ALLOWED TO DISPLAY A DUAL MARKING SYSTEM WHICH INDICATES THE DEPTH AT THE WALL AND THE DEEP POINT. DEPTH MARKERS SHALL BE LOCATED ON BOTH SIDES OF THE POOL.
7. THE MINIMUM DEPTH SHALL BE 3 FEET AT THE SHALLOW END
8. POOL RESTROOM FACILITIES SHALL BE LOCATED WITHIN A 200 FOOT WALKING DISTANCE OF THE POOL.

RESTROOM FACILITIES REQUIREMENTS:

9. THE FLOORS SHALL BE CONSTRUCTED OF CONCRETE OR OTHER NONABSORBENT MATERIALS AND SHALL HAVE A SMOOTH SLIP RESISTANT FINISH AND THE FLOORS SHALL SLOPE TO A FLOOR DRAIN AT LEAST 3 INCHES IN DIAMETER.
10. EACH SEX SHALL BE LABELED ON THEIR RESPECTIVE DOORS.
11. DIRECT ACCESS FROM THE POOL OR THE SPA DECK TO THE RESTROOM FACILITIES IS REQUIRED.
12. WALLS IN RESTROOM FACILITIES SHALL BE COVED.
13. ONE DIAPER CHANGING TABLE SHALL BE PROVIDED AT EACH RESTROOM

	MEN'S RESTROOM			WOMEN'S RESTROOM	
	URINALS	WC	LAVATORY	WC	LAVATORY
REQUIRED	1	1	1	1	1
PROVIDED	1	1	1	1	1

POOL AREA REQUIREMENTS:

14. ALL DECKS SHALL SLOPE AWAY FROM THE POOL 2%.
15. ALL DECK SURFACES SHALL HAVE A SMOOTH SLIP RESISTANT FINISH.
16. 3/4" HOSE BIBBS W/ VACUUM BREAKERS SHALL BE LOCATED AROUND THE POOL DECK FOR CLEANING.
17. A RINSE SHOWER SHALL BE LOCATED WITHIN 20 FEET OF THE POOL.
18. ALL WALKWAYS BETWEEN THE POOL AND SANITARY FACILITIES SHALL BE CONSTRUCTED OF CONCRETE OR OTHER NON-ABSORBENT MATERIAL FOR THE FIRST FIFTEEN FEET AND SHALL HAVE A SLIP RESISTANT SURFACE FINISH.
19. IF SANITARY FACILITIES ARE NOT VISIBLE FROM THE DECK, A SIGN OR SIGNS INDICATING THE DIRECTION TO THE RESTROOMS SHALL BE POSTED ON THE POOL DECK.
20. POOL WET DECKS LIGHTING PROVIDES FOR USE DURING DAYLIGHT HOURS ONLY. FOR NIGHT USE, PLANS MUST BE SUBMITTED TO THE LOCAL BOARD OF HEALTH ENGINEERING DEPARTMENT, WITH ALL REQUIREMENTS PER CHAPTER 64E-9 FLORIDA ADMINISTRATIVE CODE FOR NIGHT SWIMMING.
21. FOR NIGHT SWIMMING, OVERHEAD LIGHTING PROVIDES FOR A MINIMUM OF 3 FOOT CANDLES OF ILLUMINATION AT THE WATER AND DECK LEVEL.
22. DISTRIBUTION OF FOOD OR DRINK WITHIN 12 FEET OF THE POOL WATERS EDGE IS PROHIBITED.
23. NO OVERHEAD WIRING SHALL BE LOCATED WITHIN 10 FEET OF THE POOL.
24. MINIMUM DECK WIDTH SHALL NOT BE LESS THAN 4 FOOT WIDE. WHEN THE COPING IS RAISED ABOVE THE DECK, THE CLEARANCE SHALL BE MEASURED FROM THE BACK OF THE COPING, HANDRAIL OR LADDER.
25. WHEN A SPA IS EQUIPPED WITH AN EMERGENCY CUT-OFF OR KILL SWITCH, PROVISIONS FOR A MINIMUM 80 DECIBEL AUDIBLE ALARM NEAR THE SPA TO SOUND CONTINUOUSLY UNTIL DEACTIVATED WHEN SUCH DEVICE IS TRIGGERED SHALL BE INCORPORATED. THIS IS TO ALERT POOL PATRONS AND OPERATORS OF A POTENTIAL PUBLIC HEALTH SITUATION OR TO INDICATE THAT THE SPA FILTRATION AND TREATMENT SYSTEM MAY BE OFF.
26. ALL PUBLIC POOLS SHALL BE SURROUNDED BY A MINIMUM 48 INCH HIGH FENCE. THE FENCE SHALL BE CONTINUOUS AROUND THE PERIMETER OF THE POOL AREA THAT IS NOT OTHERWISE BLOCKED OR OBSTRUCTED BY ADJACENT BUILDINGS OR STRUCTURES AND SHALL ADJOIN WITH ITSELF OR ABUT TO THE ADJACENT MEMBERS. ACCESS THROUGH THE BARRIER OTHER THAN FROM DOORED EXITS OF ADJACENT BUILDING(S) SHALL BE THROUGH SELF-CLOSING SELF-LATCHING LOCKABLE GATES OF 48 INCH MINIMAL HEIGHT WITH THE LATCH LOCATED A MINIMUM OF 54 INCHES FROM THE BOTTOM OF THE GATE OR AT LEAST 3 INCHES BELOW THE TOP OF THE GATE ON THE POOL SIDE. GATES SHALL OPEN OUTWARD AWAY FROM THE POOL AREA.
27. A SIGN SHALL BE POSTED IN THE POOL AREA INDICATING THE DIRECTION TO THE POOL RESTROOMS.

A "POOL CLOSED" SIGN MUST BE CONSPICUOUSLY PLACED NEAR THE ENTRANCE TO EACH BATHING UNIT. THIS SIGN SHALL BE PLACED EACH DAY, NO LATER THAN ONE HALF (1/2) HOUR BEFORE SUNSET AND SHALL NOT BE REMOVED EARLIER THAN ONE HALF (1/2) HOUR AFTER SUNRISE. THE LETTERING MUST BE A MINIMUM OF 4 INCHES HIGH, WITH CONTRASTING BACKGROUND COLOR OF THE SIGN, STATING: POOL CLOSED.

COORDINATION NOTES:

THE POOL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE FOLLOWING ISSUES WITH THE GENERAL CONTRACTOR:

- UNLESS THIS FACILITY IS APPROVED BY THE COUNTY FOR NIGHT SWIMMING, THE OPERATOR SHALL POST A SIGN IN THE POOL AREA AT DUSK OR EARLIER THAT "NIGHT SWIMMING IS PROHIBITED"
- 2% DECK SLOPE
- DRAINAGE OF DECK
- SHOWERS & HOSE BIBBS
- CITY WATER SUPPLY TO COLLECTOR TANKS WASTE WATER REMOVAL FROM EQUIPMENT ROOM
- SLIP RESISTANT RESTROOM TILE & FLOOR DRAIN

FAILURE TO COORDINATE THESE ISSUES CAN RESULT IN SIGNIFICANT DEPARTMENT OF HEALTH PENALTIES UPON COMPLETION OF THE PROJECT.

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

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-
September 12, 2013

AQUADYNAMICS
DESIGN GROUP, INC.
AQUATIC ENGINEERING CONSULTANTS
SWIMMING POOLS, SPAS, WATER FEATURES, WATER PARKS, COMMERCIAL RECREATIONAL & MUNICIPAL FACILITIES, RESIDENTIAL CUSTOM DESIGN
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SWIMMING POOL
1680 Collins Avenue- Miami Beach, FL 33149

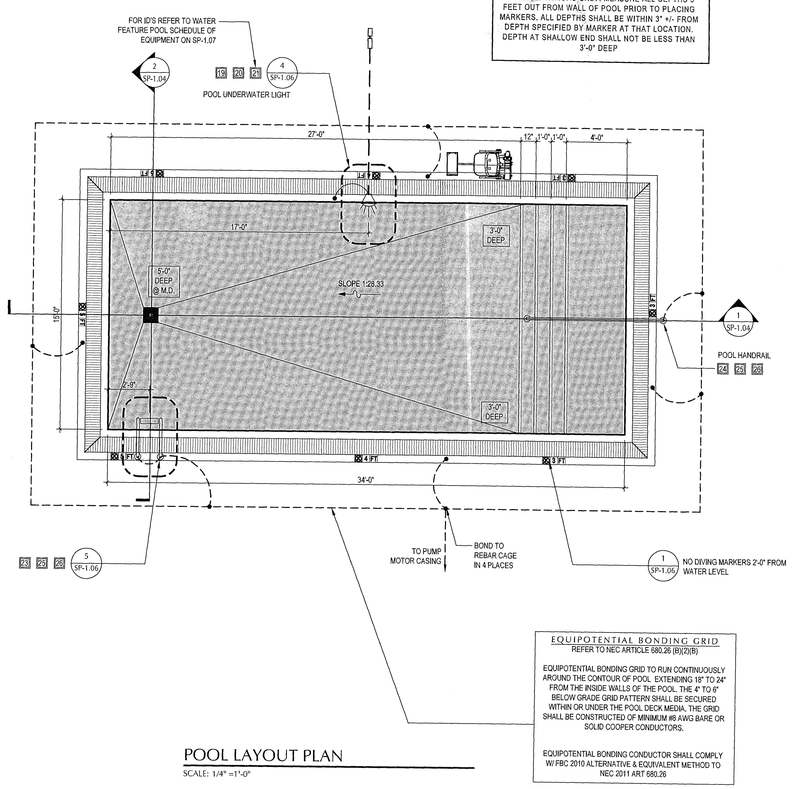
DRAWING TITLE:
SWIMMING POOL
AREA PLAN

REVISIONS
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4
5

SEAL:
OFELIA TABOADA, P.E.
PROFESSIONAL REG. No. 55339
CIVIL ENGINEER

DATE:	DRAWN BY:
06-15-2012	A.M.
SCALE: AS NOTED	SHEET 2 OF 6

SP-1.02



POOL LAYOUT PLAN

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

SWIMMING POOL DATA CHART

UNITS= 76
POOL AREA= 510 FT²
POOL PERIMETER= 98 FT
POOL VOLUME REQUIRED= 13,680 GALS.
POOL VOLUME PROVIDED= 15,159 GALS
FILTER RATE= 100 GPM
TURNOVER RATE= 2.53 HOUR
BATHING LOAD= 20 PERSONS

POOL CONTRACTOR:

MARKER DEPTHS SHOWN ARE GRAPHIC REPRESENTATIONS ONLY. MEASURE ALL DEPTHS 3 FEET OUT FROM WALL OF POOL PRIOR TO PLACING MARKERS. ALL DEPTHS SHALL BE WITHIN 3" +/- FROM DEPTH SPECIFIED BY MARKER AT THAT LOCATION. DEPTH AT SHALLOW END SHALL NOT BE LESS THAN 3'-0" DEEP

EQUIPOTENTIAL BONDING GRID

REFER TO NEC ARTICLE 680.26 (B)(2)(B)

EQUIPOTENTIAL BONDING GRID TO RUN CONTINUOUSLY AROUND THE CONTOUR OF POOL EXTENDING 18" TO 24" FROM THE INSIDE WALLS OF THE POOL. THE 4" TO 6" BELOW GRADE GRID PATTERN SHALL BE SECURED WITHIN OR UNDER THE POOL DECK MEDIA. THE GRID SHALL BE CONSTRUCTED OF MINIMUM #8 AWG BARE OR SOLID COOPER CONDUCTORS.

EQUIPOTENTIAL BONDING CONDUCTOR SHALL COMPLY W/ FBC 2010 ALTERNATIVE & EQUIVALENT METHOD TO NEC 2011 ART 680.26

City of Miami Beach
Fire Prevention Division
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September 12, 2013

AQUADYNAMICS INC
DESIGN GROUP
AQUATIC ENGINEERING CONSULTANTS
ENGINEERING & ARCHITECTURE CERTIFICATE HOLDER: HOTELS & CONDOMINIUM POOL DESIGN PHOTENCIL
AMERICAN SOCIETY OF CIVIL ENGINEERS - MEMBER: SOCIETY OF AMERICAN MILITARY ENGINEERS
5200 SW 57th AVE. SUITE 201 MIAMI, FLORIDA 33143 PH: (305) 665-3478 FAX: (305) 665-3480
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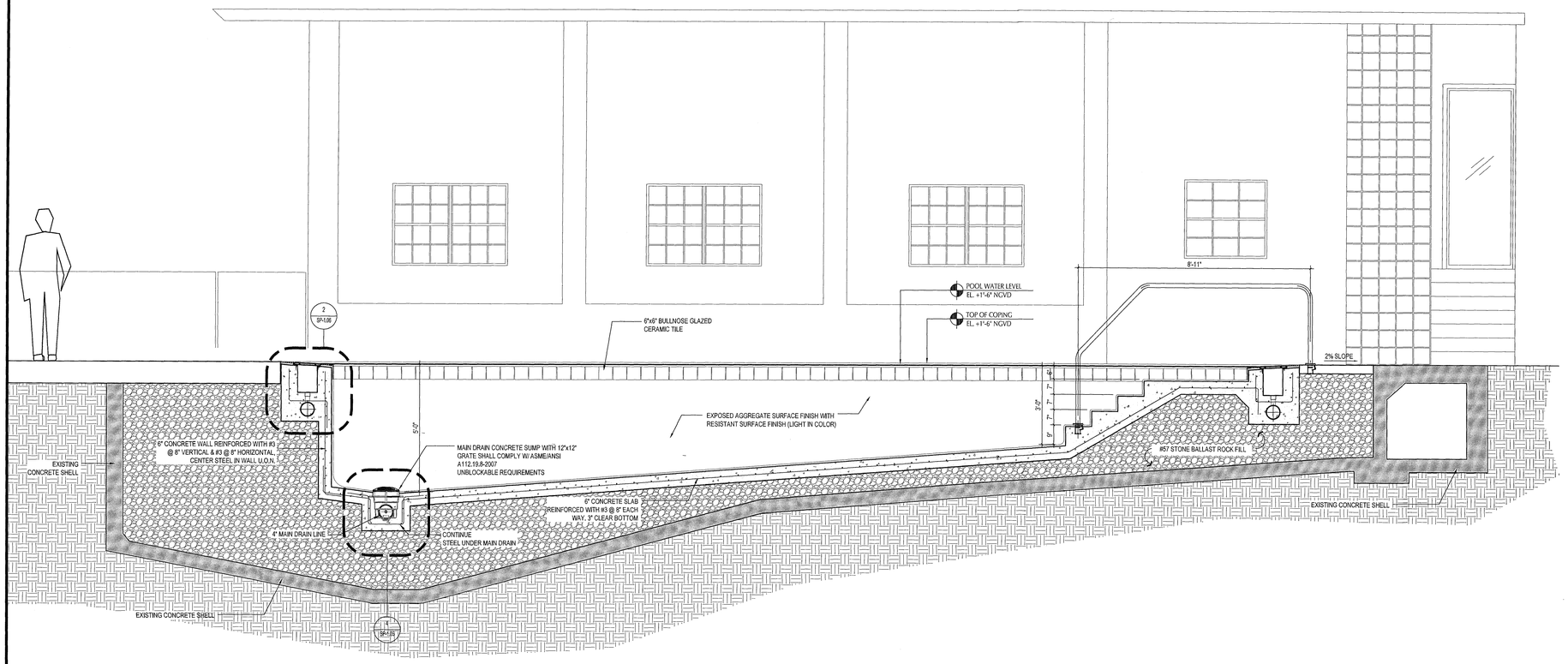
DRAWING TITLE:
SWIMMING POOL
LAYOUT PLAN

REVISIONS
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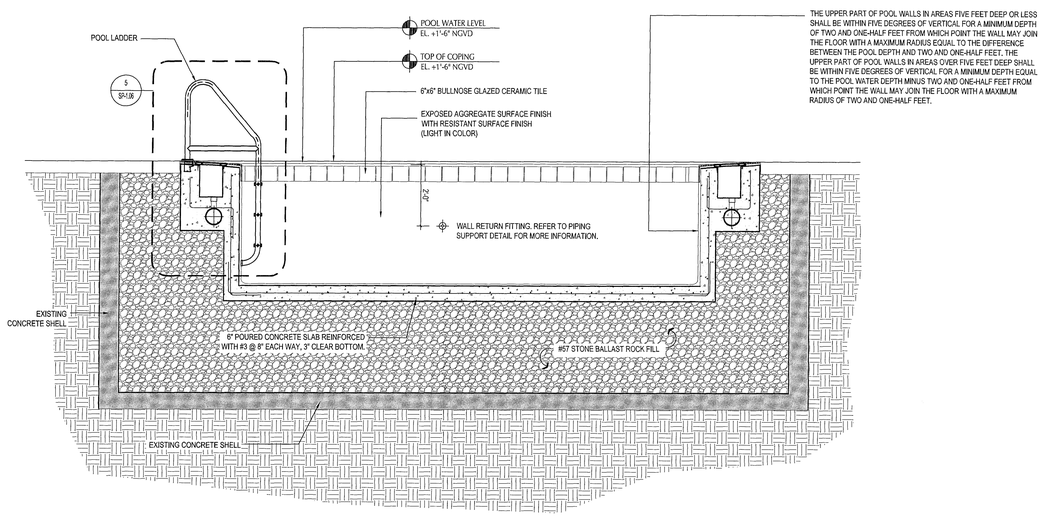
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PROFESSIONAL REG. No. 55339
CIVIL ENGINEER

DATE: 08-15-2012
DRAWN BY: A.M.
SCALE: AS NOTED
SHEET: 2 OF 9

SP-1.03



2 SP-1.04 POOL SECTION
SCALE: 1/2"-1'-0"



1 SP-1.04 POOL SECTION
SCALE: 1/2"-1'-0"

STRUCTURAL NOTES:

1.- GENERAL:

1.01.- ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE FLORIDA BUILDING CODE 2010, ASCE/SEI 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS, THE ACI 318-05 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AND ALL APPLICABLE FEDERAL, STATE AND LOCAL ORDINANCES.

1.02.- THESE DRAWINGS AND SPECIFICATIONS COMPLY, TO THE BEST OF MY KNOWLEDGE WITH THE APPLICABLE MINIMUM BUILDING CODE.

1.03.- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS OF EXISTING STRUCTURES AFFECTING NEW CONSTRUCTION BEFORE COMMENCING ANY WORK ANY VARIATIONS IN ACTUAL FIELD CONDITIONS/DIMENSIONS FROM THOSE SHOWN IN THE CONTRACT DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR DETERMINING THE NEED OF REDESIGN PRIOR TO CONTRACTOR'S SUBMITTAL OF SHOP WORKING DRAWINGS FOR REVIEW.

1.04- THESE DRAWINGS SHALL BE WORKED TOGETHER WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, ETC. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

1.05- WHEN PERFORMING WORK BELOW GRADE, CARE SHALL BE TAKEN TO AVOID DAMAGING ANY EXISTING UTILITIES. ALL UNKNOWN UTILITIES DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. ANY DAMAGE TO THE EXISTING UTILITIES SHALL BE REPORTED TO ALL AFFECTED PARTIES, INCLUDING THE ARCHITECT/ENGINEER.

1.06- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING HIS CONSTRUCTION DOCUMENTS WITH THE REVISED DRAWINGS AND SPECIFICATIONS, FIELD ORDERS, CHANGE ORDERS AND CLARIFICATIONS SKETCHES ISSUED DURING THE COURSE OF CONSTRUCTION.

1.07- TYPICAL DETAILS AND NOTES ON THESE DRAWINGS SHALL APPLY UNLESS SPECIFICALLY NOTED DO OTHERWISE. CONSTRUCTION DETAILS AND SECTIONS NOT COMPLETELY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS AND SECTIONS SHOWN OR NOTED FOR SIMILAR CONDITIONS.

1.08- THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.

1.09- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER FROM EXCAVATIONS AND DEWATERING OPERATIONS IN SUCH A WAY AS TO NOT CAUSE INCONVENIENCE TO THE WORK AND DAMAGE TO THE STRUCTURAL ELEMENTS.

1.10- SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.

1.11- THE CONTRACTOR SHALL SUPPLY THE ENGINEER THREE COPIES OF SHOP DRAWINGS A MINIMUM OF ONE WEEK PRIOR TO PLACEMENT. THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THE REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT NOR DOES IT INFER THAT THEY SUPERSEDE THE STRUCTURAL DRAWINGS.

1.12- SUBMITTALS TO STRUCTURAL ENGINEER:
I. CONCRETE TEST REPORT FOR CAST-IN-PLACE CONCRETE AS PER ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
II. REINFORCING STEEL SHOP DRAWINGS IF APPLICABLE.

2.- POURED IN PLACE CONCRETE / PNEUMATICALLY APPLIED CONCRETE

2.01- ALL CONCRETE WORK SHALL CONFORM ALL REQUIREMENTS OF ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".

2.02- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4000 PSI.

2.03- FORM WORK SHALL COMPLY WITH ACI 347-88 "RECOMMENDED PRACTICE FOR CONCRETE FOAMWORK".

2.04- MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK.

2.05- NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

2.06- THE BUILDER SHALL CONTRACT AN INDEPENDENT TESTING LABORATORY TO PERFORM CONCRETE CYLINDER TESTS AS FOLLOWS: FOUR CYLINDER TEST FOR ANY 50 CUBIC YARDS OF CONCRETE POURED, OR THREE CYLINDER TESTS PER ANY DAY. POUR LESS THAT 50 CUBIC YARDS, ONE CYLINDER SHALL BE TESTED AT 7 DAYS, TWO AT 28 DAYS.

2.07- TRANSPORTING, PLACING, CURING AND DEPOSITING OF CONCRETE SHALL COMPLY WITH ACI 301.

2.08- ALL PNEUMATICALLY PLACED CONCRETE SHALL CONFORM TO APPLICABLE REQUIREMENTS OF ACI 506.2 SPECIFICATIONS FOR SHOTCRETE

2.09- ALL PNEUMATICALLY PLACED CONCRETE SHALL COMPLY WITH FBC 2010, CHAPTER 19, SECTIONS 1913 & 1929

2.10- THE BUILDER SHALL CONTRACT AN INDEPENDENT TESTING LABORATORY TO PERFORM PNEUMATICALLY PLACE CONCRETE COMPRESSIVE STRENGTH TEST IN ACCORDANCE WITH APPLICABLE SECTIONS ACI & FBC 2010

3- REINFORCING STEEL:

3.01- REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 318-05.

3.02- REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615/A615M-09b. (GRADE 60)

3.03- ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185-02.

3.04- REINFORCING SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES DURING PLACING OF CONCRETE.

3.05- ALL TOP REINFORCING SHALL TERMINATE WITH STANDARD HOOKS AT DISCONTINUOUS EDGES OR ENDS.

3.06- ALL BOTTOM BARS SHALL BEAR 6" MINIMUM OVER SUPPORTS, U.O.N.

3.07- ALL REINFORCING BARS MARKED CONTINUOUS SHALL BE LAPPED 36 DIA. AT SPLICES AND CORNERS UNLESS OTHERWISE NOTED. LAP CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AS REQUIRED. TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS ENDS WITH STANDARD HOOKS, U.O.N.

3.08- MINIMUM CONCRETE COVER FOR REINFORCEMENT:

I. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"

II. CONCRETE EXPOSED TO EARTH OR WEATHER
#6 BARS AND LARGER: 2"
#5 BARS AND SMALLER: 1.5"

III. CONCRETE NOT EXPOSED TO WEATHER OR IN IN CONTACT WITH EARTH:
SLABS AND WALLS: 1.5"
BEAMS AND COLUMNS: 1.5"

4.- GENERAL REQUIREMENTS/ NOTES PER FLORIDA DEPARTMENT OF HEALTH:

4.01.- INTERIOR POOL FINISH SHALL BE WHITE OR LIGHT PASTEL IN COLOR.

4.02.- INTERIOR POOL FINISH IS IMPERVIOUS AND SLIP RESISTANT.

4.03.- THE MAXIMUM VELOCITY THROUGH THE MAIN DRAIN GRATE DOES NOT EXCEED 1.5 F.P.S.

4.04.- SECURE THE MAIN DRAIN GRATE WITH TAMPERPROOF SCREWS. (THE MAIN DRAIN GRATE IS NOT READILY REMOVABLE.)

4.05.- THE ACTUAL DEPTH AT OPERATING WATER LEVEL SHALL NOT DEVIATE MORE THAN 3 INCHES FROM THE DEPTH SPECIFIED BY THE MARKER WHEN MEASURED 3 FEET FROM THE POOL WALL.

4.06.- THE DEPTH AT THE SHALLOW END SHALL NOT BE LESS THAN 3'-0"

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SAN JUAN HOTEL
SWIMMING POOL
1680 Collins Avenue- Miami Beach, FL 33149

DRAWING TITLE:
SWIMMING POOL SECTIONS

REVISIONS
1
2
3
4
5

SEAL:
OFELIA TABOADA, P.E.
PROFESSIONAL REG. No. 55339
CIVIL ENGINEER

DATE:	DRAWN BY:
06-15-2012	A.M.
SCALE: AS NOTED	SHEET: 2 OF 9

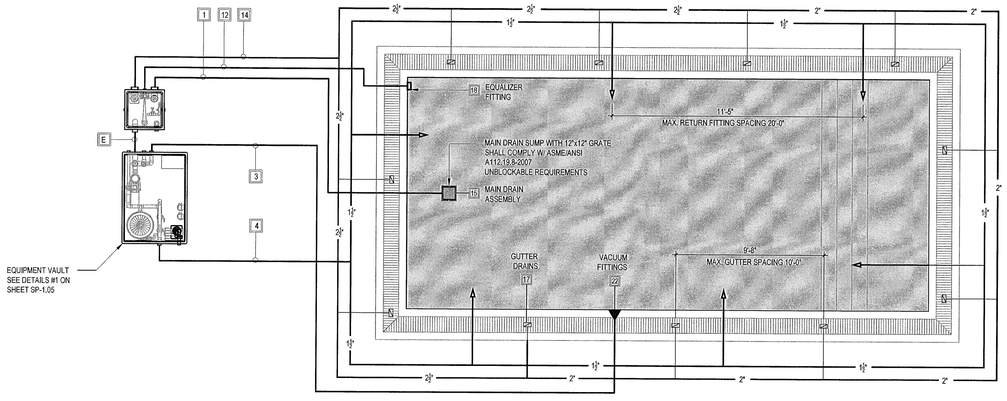
SP-1.04

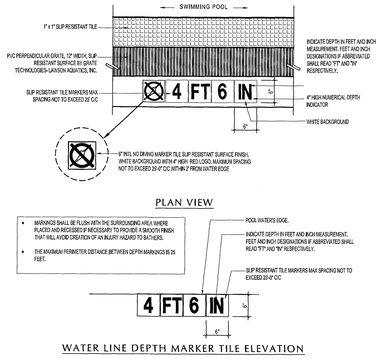
DESIGN VELOCITIES

GRAVITY LINES = 3 FPS
SUCTION LINES = 6 FPS
PRESSURE LINES = 10 FPS

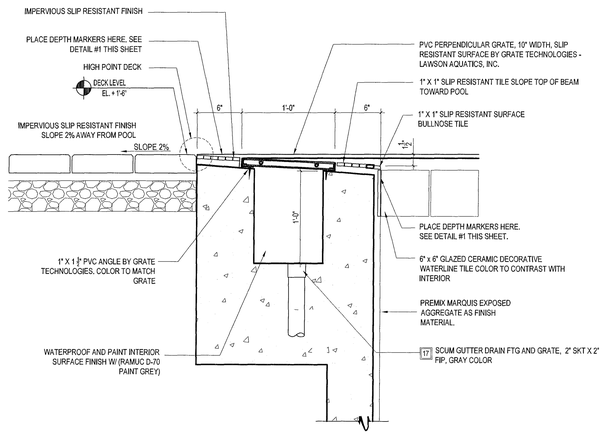
NOTE:
THE PIPING SHOWN IS A GRAPHIC REPRESENTATION OF PIPE ROUTE. ACTUAL ROUTING OF PIPING AROUND POOL MAY DIFFER FROM THIS PLAN

POOL PIPING LEGEND				
ID#	DESCRIPTION	GPM	FPS	PIPE SIZE
1	MAIN DRAIN LINE TO COLLECTOR TANK	100.00	3.00	4"
2	WASTE LINE TO DEDICATED STORM DRAIN SYSTEM (VIA AIR GAP) (SEE PLUMBING DRAWINGS)			3"
3	VACUUM LINE			2"
4	RETURN LINE FROM POOL FILTER PUMP	100.00	10.00	2"
5	SUCTION LINE TO POOL FILTER PUMP	100.00	6.00	3"
6	DRAIN LINE TO STORM SYSTEM (REFER TO CIVIL ENGINEER FOR PIPE CONTINUATION)			2"
7	MAKE UP WATER LINE (MDWASA)			1"
8	TANK DRAIN			1"
9	TO HEATER			N/A
10	FROM HEATER			N/A
11	COLLECTOR TANK OVERFLOW LINE TO DEDICATED STORM DRAIN SYSTEM			2"
12	EQUALIZER LINE TO COLLECTOR TANK			2"
13	SUMP PUMP TO WASTE			1.5"
14	GUTTER LINE TO COLLECTOR TANK	100.00	3.00	4"

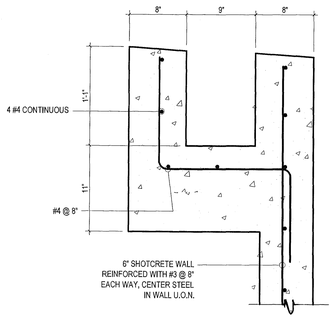

EQUALIZER FITTING
MAIN DRAIN SUMP WITH 12"x12" GRATE SHALL COMPLY W/ ASME/ANSI A112.19.8-2007 UNBLOCKABLE REQUIREMENTS
MAIN DRAIN ASSEMBLY
11'-5" MAX. RETURN FITTING SPACING 20'-0"
GUTTER DRAINS
VACUUM FITTINGS
5'-8" MAX. GUTTER SPACING 10'-0"
EQUIPMENT VAULT SEE DETAILS #1 ON SHEET SP-1.05
2'
1'
2'
2'
2'
1'
2'
2'
2



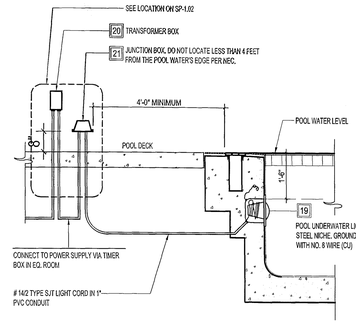
1 SP-1.06 **WATERLINE TILE DEPTH MARKER DETAIL**
SCALE 3/4"=1'-0"



2 SP-1.06 **DECK LEVEL GRATED GUTTER (Finish)**
SCALE 1 1/2"=1'-0"



3 SP-1.06 **DECK LEVEL GRATED BEAM DETAIL (Structural)**
SCALE 1 1/2"=1'-0"

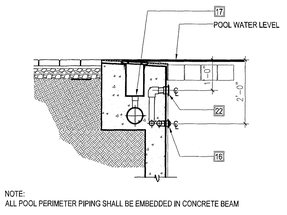


ALL ELECTRICAL WORK SHALL BE DONE BY LICENSED CONTRACTORS ONLY! ALL WORK SHALL BE DONE IN STRICT COMPLIANCE W/ ARTICLE 680 N.E.C. AND ALL LOCAL BUILDING DEPT. REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR MEETING THESE CRITERIA.

4 SP-1.06 **POOL LIGHT DETAIL**
SCALE 1/2"=1'-0"

5 SP-1.06 **3 TREAD CROSS-BRACED LADDER DETAIL**
SCALE 1/2"=1'-0"

1. WALL INLETS SHALL BE INSTALLED A MINIMUM OF 12 INCHES BELOW THE NORMAL OPERATING WATER LEVEL.
2. VACUUM FITTINGS SHALL BE MOUNTED NO MORE THAN 15 INCHES BELOW THE WATER LEVEL, FLUSH WITH THE POOL WALLS, AND SHALL BE PROVIDED WITH A SPRING LOADED SAFETY COVER WHICH SHALL BE IN PLACE AT ALL TIMES.
3. BACKFILL AROUND PIPING WITH CLEAN SAND ONLY NO ROCKS OR DEBRIS.
4. ALL EXPOSED METAL TO BE TREATED AGAINST RUST PRIOR TO BACKFILL.



NOTE:
ALL POOL PERIMETER PIPING SHALL BE EMBEDDED IN CONCRETE BEAM

6 SP-1.06 **PIPING SUPPORT DETAIL**
SCALE 1/2"=1'-0"

POOL RULES

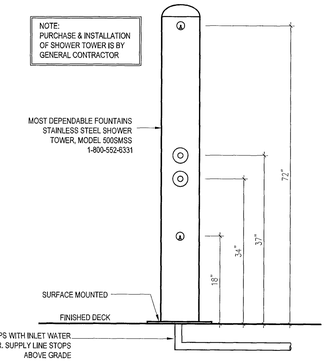
1. NO FOOD OR BEVERAGES IN POOL OR ON POOL WET DECK.
2. NO GLASS OR ANIMALS IN THE FENCED POOL AREA (OR 50 FEET FROM UNFENCED POOL).
3. BATHING LOAD: 20 PERSONS.
4. POOL HOURS: DAWN TO DUSK
5. SHOWER BEFORE ENTERING POOL.
6. "NO DIVING" ALLOWED IN THIS POOL.
7. DO NOT SWALLOW THE POOL WATER.

GENERAL SPECIFICATIONS:

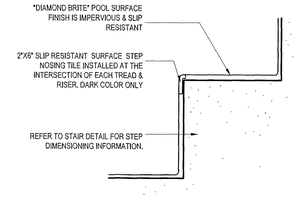
- POST SIGN WITHIN CONFINES OF POOL AREA.
- SIGN LETTERING SHALL CONTRAST WITH BACKGROUND COLOR.
- SIGN LETTERS SHALL BE AT LEAST 1" HIGH.
- LETTERS SPECIFYING NO ,DIVING SHALL BE AT LEAST 4" HIGH.

8 SP-1.06 **RULES SIGN DETAIL**
SCALE N.T.S.

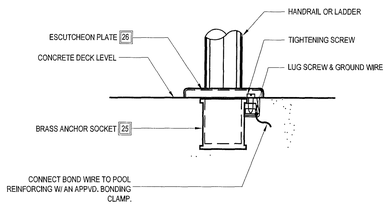
NOTE:
PURCHASE & INSTALLATION OF SHOWER TOWER IS BY GENERAL CONTRACTOR



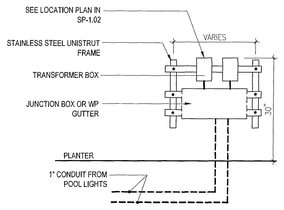
9 SP-1.06 **TOWERSHOWER DETAIL**
SCALE 1/2" = 1'-0"



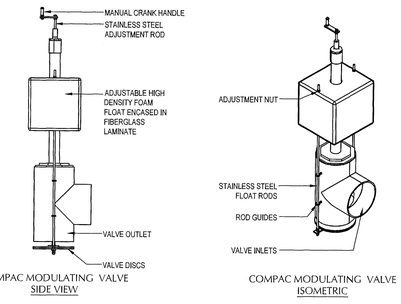
10 SP-1.06 **STEP NOSING DETAIL**
SCALE N.T.S.



11 SP-1.06 **ANCHOR SOCKET DETAIL**
SCALE N.T.S.



12 SP-1.06 **T-BOX WALL MOUNTING DETAIL**
SCALE 1/2" = 1'-0"

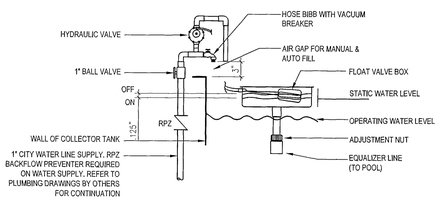


COMPAC MODULATING VALVE
SIDE VIEW

COMPAC MODULATING VALVE
ISOMETRIC

13 SP-1.07 **COMPAC COLLECTOR TANK MODULATING VALVE DETAIL**
SCALE N.T.S.

COMPAC FILTRATION
2020 WEST BEAVER STREET
JACKSONVILLE, FL 32209
PHONE: (904) 356-4003
FAX: (904) 354-1624



14 SP-1.07 **AUTOMATIC WATER LEVEL CONTROL DETAIL**
SCALE N.T.S.

City of Miami Beach
Fire Prevention Division
PLANS APPROVED

REVIEW SET
NOT ISSUED FOR CONSTRUCTION
-
September 12, 2013

AQUADYNAMICS
DESIGN GROUP INC
AQUATIC FACILITY CONSULTANTS
WATER PARK & LEISURE POOL DESIGN, ENGINEERING, CONSTRUCTION MANAGEMENT, CONSULTING
2 LOCUST PLACE, SANTA FE, NEW MEXICO 87508 (505) 466-1369
3500 BISCAYNE AVE., SUITE 103, MIAMI, FLORIDA 33137 (PHONE, DISSERTATING, POOL FOR RESIDENTIAL DESIGN)
E-MAIL: AQUADYNAMICS@MSN.COM

NOTICE TO BUILDER
TO THE BEST OF OUR KNOWLEDGE AND BELIEF, THE INFORMATION CONTAINED ON THESE DRAWINGS CONFORMS TO THE STANDARDS SET IN THE FLORIDA BUILDING CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING AND COMPARING ALL DRAWINGS AND CONDITIONS PRIOR TO THE START OF THE WORK, AND NOTIFYING THE ENGINEER, AT ONCE, OF ANY DISCREPANCIES FOUND. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE SUCCESSFUL COMPLETION OF THE PROJECT INDICATED. USE OR REPRODUCTION OF ANY PORTION OF THESE DRAWINGS WITHOUT THE EXPRESSED WRITTEN PERMISSION OF AQUADYNAMICS DESIGN GROUP, INC IS STRICTLY PROHIBITED

SAN JUAN HOTEL
SWIMMING POOL
1680 Collins Avenue- Miami Beach, FL 33149

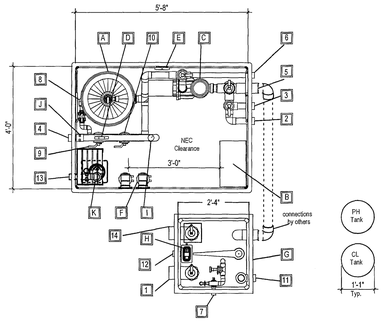
DRAWING TITLE:
SWIMMING POOL DETAILS

REVISIONS

SEAL:
OFELIA TABOADA, P.E.
PROFESSIONAL REG. No. 55339
CIVIL ENGINEER

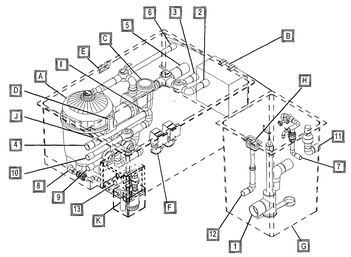
DATE: 09-15-2012	DRAWN BY: A.M.
SCALE: AS NOTED	SHEET: 2 OF 8

SP-1.06



PH-36C COMPAC PLAN VIEW

SCALE: 1/2" = 1'-0"



PH-36C COMPAC ISOMETRIC

SCALE: 1/2" = 1'-0"

FILTER NOTES

1. VALVES FOR PROPORTIONING FLOW ARE DESIGNED FOR SUCH THE MAIN DRAIN AND RETURN
2. ALL ELECTRICAL EQUIPMENT SHALL CONFORM WITH THE N.E.C. AND UL LISTED ELECTRICAL CONTROL PANEL W/ ACCUPUMP™(tm)(tm) FLOW CONTROL
3. FILTER VAULT SHALL NOT BE USED FOR STORAGE OF CHEMICALS OR OTHER ITEMS THAT COULD IMPAIR OPERATION OR INSPECTION SYSTEM
4. ALL COMPONENTS ARE DESIGNED FOR CONTINUOUS USE
5. FILTER TANK HAS COVED INTERSECTION BETWEEN WALL AND FLOOR, TANK FLOOR SLOPES TO DRAIN
6. ALL CHEMICAL FEEDERS ARE INTERLOCKED WITH RECIRCULATION PUMP
7. ALL VALVES, PIPES, CHEMICAL FEEDERS & CROCKS ARE PERMANENTLY MARKED
8. ALL PIPING IS NSF-PW RATED AND IS MARKED
9. ALL PUMPS ARE SELF-PRIMING OR FLOODED SUCTION
10. SYSTEM DRAINAGE BY FLOOR DRAIN OR SUMP WITH PUMP
11. FLOWMETER IS LOCATED AS PER MANUFACTURERS INSTRUCTIONS AND IS CAPABLE OF READING 0.5 TO 1.5 TIMES THE DESIGNED FLOW RATE
12. NO DISSIMILAR METALS USED
13. 30 FT.CANDLE (MIN.) LIGHTING PROVIDED
14. FRESH WATER SUPPLY SHALL BE FROM AN APPROVED POTABLE WATER SYSTEM OR SHALL MEET THE POTABLE WATER SYSTEM REQUIREMENTS & PROVIDE LABORATORY DOCUMENTATION TO THE CO. PUBLIC HEALTH UNIT
15. ALL FACE PIPING SHALL BE PVC SCHEDULE 40 NSF-PW. ALL JOINTS SHALL BE NON-THREADED SOLVENT WELD TYPE.
16. THE CHEMICAL STORAGE TANK SHALL BE LABELED ACCORDING TO THE SOLUTION OF WHICH IT CONTAINS.
17. SECURE ALL CHEMICAL FEEDER TUBING TO WALL. NO LOOSE TUBING.
18. ALL EXPOSED PVC PIPE SHALL BE TREATED AGAINST U. V. LIGHT. ALL SPLASH PAD EQUIPMENT INDICATED IS APPROVED BY MANUFACTURER FOR OUTDOOR USE.

COMPAC FILTRATION
2020 WEST BEAVER STREET
JACKSONVILLE , FL 32209
PHONE: (904) 356-4003
FAX: (904) 354-1624

SWIMMING POOL PH-36C COMPAC - SCHEDULE OF EQUIPMENT

FILTRATION EQUIPMENT SYSTEM

ID. No.	QTY.	ITEM	MFR	CAT. No.	DESCRIPTION
A	1	FILTER UNIT	HAYWARD	C3025	325 SQ. FT. FILTER AREA.
B	1	ELECTRICAL CONTROL PANEL			UL LISTED ELECTRICAL CONTROL PANEL
C	1	FILTER PUMP	WATERCO	2405100A	2 H.P. WATERCO 2405200A HYDROSTORM PLUS RECIRC. PUMP MAX. 100 GPM- 36,000 GALLONS IN 6 HOURS @ 60 TDH
D	1	FLOWMETER	BLUE WHITE	F-30200P	BLUE WHITE 2" FLOWMETER, F-30200P, 40-150 GPM RANGE
E	2	PRESSURE GAUGES			2" FACE VACUUM GAUGE, 0-30 HG, 2" FACE PRESSURE GAUGE, 0-60 PSI
F	1	CL2 FEEDER	STENNER	45M5 CL2	LIQUID CHLORINE FEEDER 45 GPD CAPACITY. INTERLOCK ELECTRICALLY WITH FILTER PUMP.
CHEMICAL FEED EQUIPMENT	2	CL2 STORAGE TANK	COMPAC		26 GALLON LOCKABLE CHEMICAL CROCK, 50 GAL./DAY STORAGE TANK WITH LID CONTENTS OF TANK TO BE CLEARLY LABELED ON FRONT OF TANK.
	1	PH FEEDER	STENNER	45M5 PH	STENNER 45M-5 PH WITH 50 GALLON LOCKABLE CHEMICAL CROCK, 10 GAL./DAY LOCKABLE CHEMICAL CROCK. INTERLOCK ELECTRICALLY WITH FILTER PUMP.
	1	ACID STORAGE TANK	COMPAC		13 GALLON LOCKABLE CHEMICAL CROCK, 10 GAL./DAY STORAGE TANK WITH LID CONTENTS OF TANK TO BE CLEARLY LABELED ON FRONT OF TANK.
G	1	COLLECTOR TANK	COMPAC	F-150	COMPAC , 120 GALLON CAPACITY COLLECTOR TANK
H	1	WATER LEVEL CONTROLLER	COMPAC		WATER LEVELING DEVICE, AND FLOAT VALVE ASSEMBLY. THE VALVE IS ALSO EQUIPPED WITH A 1" PVC FILL LINE AND MANUALLY OPERATED BALL VALVE.
J	1	CHEMICAL INJECTION POINT			CHEMICAL INJECTION POINT
K	1	SUMP PUMP	EBARA	MODEL OPTIMA-3MS	COMMON - EBARA 1/3 H.P. SUMP PUMP

RECREATIONAL POOL - SCHEDULE OF EQUIPMENT

PERIMETER OVERFLOW & RECIRCULATION SYSTEM

MARK	QTY.	ITEM	MFR	CAT. No.	DESCRIPTION
15	1	MAIN DRAIN ASSEMBLY	LAWSON AQUATICS, INC.	MLD-SG-1212 SUMP & GRATE	12"X12" MAIN DRAIN W/ ONE 6 IN. SIDE PORT, 81.3 SQIN OPEN AREA EACH, MAXIMUM FLOW 380 GPM AT 1.5 FPS EACH, MEET THE MAXIMUM WATER VELOCITY (1.5FPS) ALLOWED BY FLORIDA RULE, 64E-9, FLORIDA ADMINISTRATIVE CODE, PUBLIC SWIMMING POOLS AND BATHING PLACES, AND THE FLORIDA BUILDING CODE SECTION 424.1 AND ARE CERTIFIED TO ASME/ANSI A112.19.8, AS REQUIRED BY THE VIRGINIA GRAEME BAKER POOL & SPA SAFETY ACT OF 2007 AND MEET THE FLORIDA STATUTES S. 514.0315.
16	6	WALL RETURN FITTINGS	HAYWARD	SP1419D	RETURN FTG 1 1/2" X 3/4" WHITE ABS PLASTIC, DIRECTIONALLY ADJUSTABLE. EYEBALL RETURN FITTING ON WALL.
17	11	GUTTER DRAINS	HAYWARD	SP1019	SCUM GUTTER DRAIN FTG AND GRATE, 2" SKT X 2" FIP
18	1	EQUALIZER FITTING	HAYWARD	SP1019	GRATE END FITTING FOR EQUALIZER/ MAKE-UP WATER LINE. FTG TO BE INSTALLED 12" BELOW POOL WATER LEVEL.

LIGHTING SYSTEM

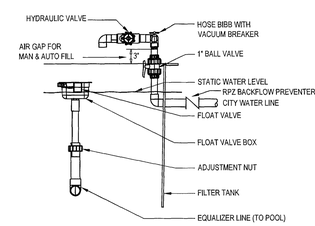
ID. No.	QTY.	ITEM	MFR	CAT. No.	DESCRIPTION
19	1	POOL LIGHTS	PENTAIR -AMERLITE-	#78432500	POOL UNDERWATER LIGHT WITH STAINLESS STEEL FACE RING, 300W, 12V, 75 FT CORD, INCLUDE AMERICAN PRODUCTS #782106 STAINLESS STEEL NICHE WITH 1" REAR HUB OR EQUAL.
20	1	TRANSFORMER BOX	A.J. GIAMMANCO	MT300	TRANSFORMER BOX IN WEATHER PROOF ENCLOSURE. A.J. GIAMMANCO SAF-T-VOLT DUAL WINDING TYPE.
21	1	JUNCTION BOX	PENTAIR -AMERLITE-	#783107	JUNCTION BOX IN WEATHER PROOF NON-CORROSIVE ENCLOSURE REQUIRED.

DECK EQUIPMENT

ID. No.	QTY.	ITEM	MFR	CAT. No.	DESCRIPTION
22	1	VACUUM FITTINGS	HAYWARD	#W400AWHP	VACUUM FTG 1-1/2" X 2" SLIP SOCKET. VACUUM FITTINGS SHALL BE MOUNTED NO MORE THAN 15 INCHES BELOW THE WATER LEVEL, FLUSH WITH THE POOL WALLS, AND SHALL BE PROVIDED WITH A SPRING LOADED SAFETY COVER WHICH SHALL BE IN PLACE AT ALL TIMES.
23	1	LADDER	S.R. SMITH	50-795S	3-TREAD LADDER, STAINLESS STEEL RAILS, 1.90" X 0.065" THICK WALL, TREADS TO HAVE A SLIP RESISTANT SURFACE FINISH, REFER TO PLAN FOR LOCATION OF FOUR TREAD LADDERS.
24	1	HANDRAIL	S.R. SMITH	3HR-5-065 60"	3 BEND A-304 STAINLESS STEEL HANDRAIL HAVING AN OUTSIDE DIAMETER OF 1.90 INCHES AND A WALL THICKNESS OF 0.065 INCHES. THE RAIL SHALL BE ANCHORED IN THE DECK AND THE BOTTOM TREAD.
25	3	ANCHOR SOCKET	PERMA-CAST HANOVER	#4190B	BRASS SOCKET WITH GROUNDING LUG, EACH SOCKET SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE STANDARDS.
26	3	ESCUTCHEON PLATE	PENTAIR	542048	STAINLESS STEEL COVER PLATE.

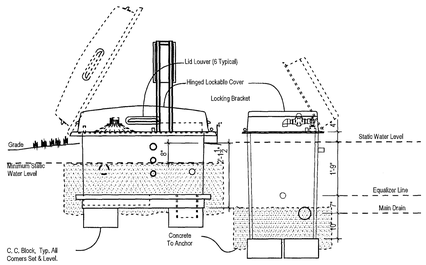
SAFETY EQUIPMENT

ID. No.	QTY.	ITEM	MFR	CAT. No.	DESCRIPTION
27	1	LIFE RING	GIAMMANCO	#20	20 INCH DIAMETER PLASTIC RING WITH 1/4" DIAMETER X 40 FT LONG SAFETY LINE.
28	1	LIFE HOOK	RAINBOW	#153	SHEPHERD TYPE LIFE HOOK, END ANCHORED TO A 16 FT ALUMINUM HANDLE.
29	1	LIFE RING HOLDER		#101	
30	1	VACUUM CLEANER HEAD	RAINBOW	PRO-VAC	14 INCH WIDE VACUUM HEAD WITH FOUR WHEEL BASE, 16 FT HANDLE, AND 1-1/2" X 40 FT FLEX HOSE.
31	1	ADA LIFT	AQUACREEK		



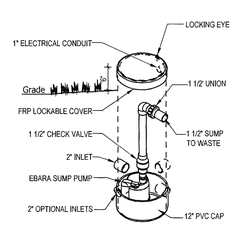
1 SP-1.08 SINGLE FLOAT LEVEL CONTROL DETAIL

SCALE: N.T.S.



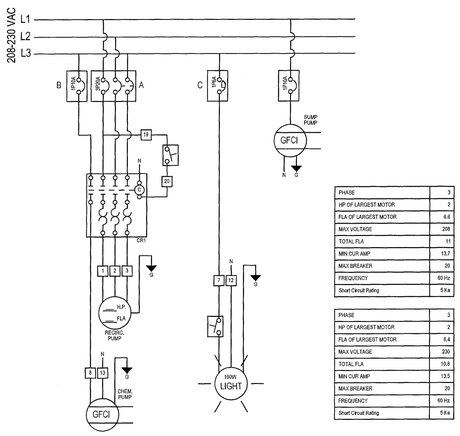
2 SP-1.08 STANDARD MODULAR SYSTEM

SCALE: N.T.S. STANDARD MODULAR SYSTEM



3 SP-1.08 SUMP PUMP DETAIL

SCALE: N.T.S.



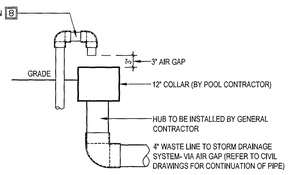
PHASE	3
HP OF LARGEST MOTOR	2
FLA OF LARGEST MOTOR	6.6
MAX VOLTAGE	269
TOTAL FLA	11
MIN CUR AMP	13.7
MAX BREAKER	20
FREQUENCY	60 Hz
Short Circuit Rating	5 Ka

PHASE	3
HP OF LARGEST MOTOR	2
FLA OF LARGEST MOTOR	6.4
MAX VOLTAGE	230
TOTAL FLA	19.8
MIN CUR AMP	13.5
MAX BREAKER	20
FREQUENCY	60 Hz
Short Circuit Rating	5 Ka

VC-126C COMPAC VACUUM CARTRIDGE ELECTRICAL SCHEMATIC

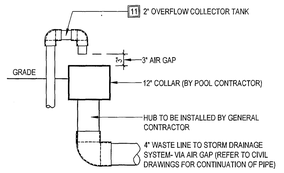
SCALE: 1/2" = 1'-0" THREE PHASE

POOL PIPING LEGEND				
ID#	DESCRIPTION	GPM	FPS	PIPE SIZE
1	MAIN DRAIN LINE TO COLLECTOR TANK	100.00	3.00	4"
2	WASTE LINE TO DEDICATED STORM DRAIN SYSTEM (VIA AIR GAP) (SEE PLUMBING DRAWINGS)			3"
3	VACUUM LINE			2"
4	RETURN LINE FROM POOL FILTER PUMP	100.00	10.00	2"
5	SUCTION LINE TO POOL FILTER PUMP	100.00	6.00	3"
6	DRAIN LINE TO STORM SYSTEM (REFER TO CIVIL ENGINEER FOR PIPE CONTINUATION)			2"
7	MAKE UP WATER LINE (MDWASA)			1"
8	TANK DRAIN			1"
9	TO HEATER			N/A
10	FROM HEATER			N/A
11	COLLECTOR TANK OVERFLOW LINE TO DEDICATED STORM DRAIN SYSTEM			2"
12	EQUALIZER LINE TO COLLECTOR TANK			2"
13	SUMP PUMP TO WASTE			1.5"
14	GUTTER LINE TO COLLECTOR TANK	100.00	3.00	4"



4 SP-1.08 TANK DRAIN TO STORM DRAINAGE DETAIL

SCALE: 3/4" = 1'-0"



5 SP-1.08 OVERFLOW LINE TO STORM DRAINAGE SYSTEM DETAIL

SCALE: 3/4" = 1'-0"

City of Miami Beach Fire Prevention Division PLANS APPROVED

REVIEW SET

NOT ISSUED FOR CONSTRUCTION

-

September 12, 2013

AQUADYNAMICS
DESIGN GROUP - INC.
AQUATIC ENGINEERING CONSULTANTS
INTERNATIONAL AQUATIC CONSULTANTS, COMMERCIAL & RESIDENTIAL DESIGNERS, +SPECIALIZING IN WATER CONVOLUTIONS, WATERFALLS, INTIMATE CUSTOM RESIDENTIAL DESIGN
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SAN JUAN HOTEL
SWIMMING POOL
1680 Collins Avenue- Miami Beach, FL 33149

DRAWING TITLE: EQUIPMENT DETAILS

REVISIONS

SEAL:

OFELIA TABOADA, P.E.
PROFESSIONAL REG. No. 55339
CIVIL ENGINEER

DATE:	DRAWN BY:
06-15-2012	A.M.
SCALE: AS NOTED	SHEET: OF 8

SP-1.07

B14038O7

1680 Collins Ave

OFFICE COPY



B14038O7

1680 COLLINS AV

WASD NEW CUSTOMER DIVISION
Reviewed by
Initial
Date
VERIFICATION FORM Required / Not Required
ORD. LETTER 89-85 Required / Not Required
OTHER

Delm Number: 2014-0627-0932-4637
Contact Name: MR FRITZ MASSON
Contact Phone: (305)710-1118
Folio: 02-3284-019-0630
Project Name: SAN JUAN HOTEL
Date Received: 06/27/2014

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