

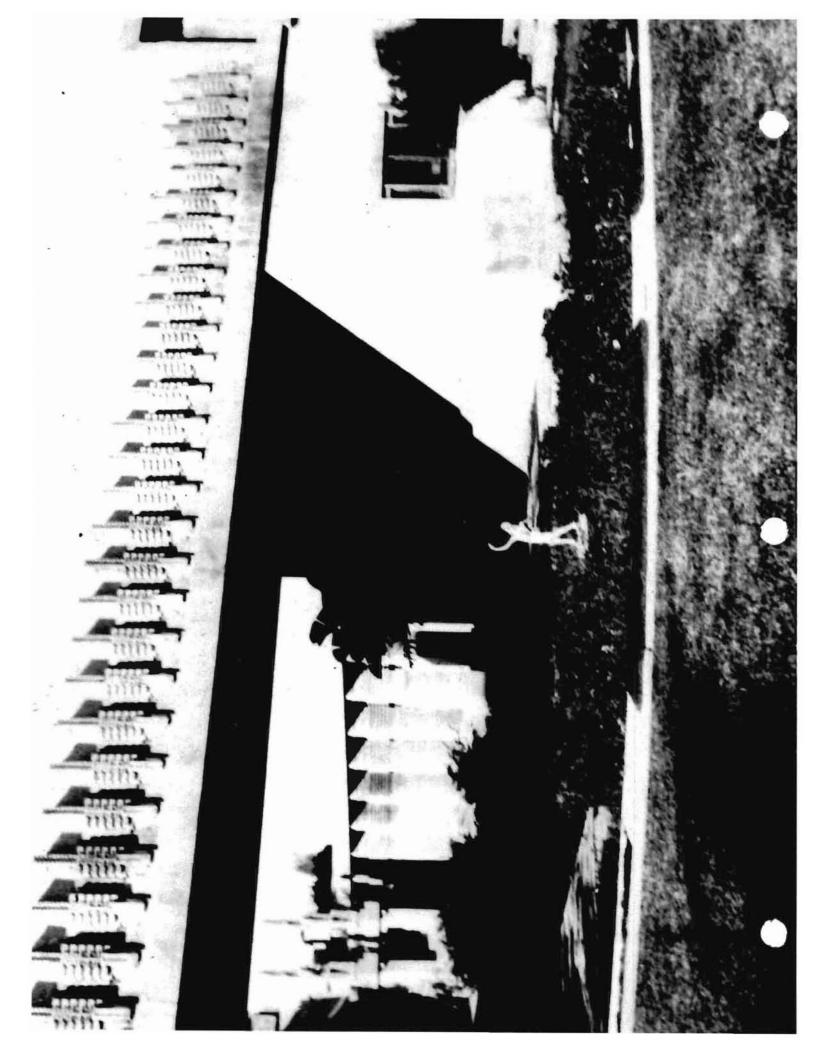
10835 Magnolia Boulevard North Hollywood, CA 91601

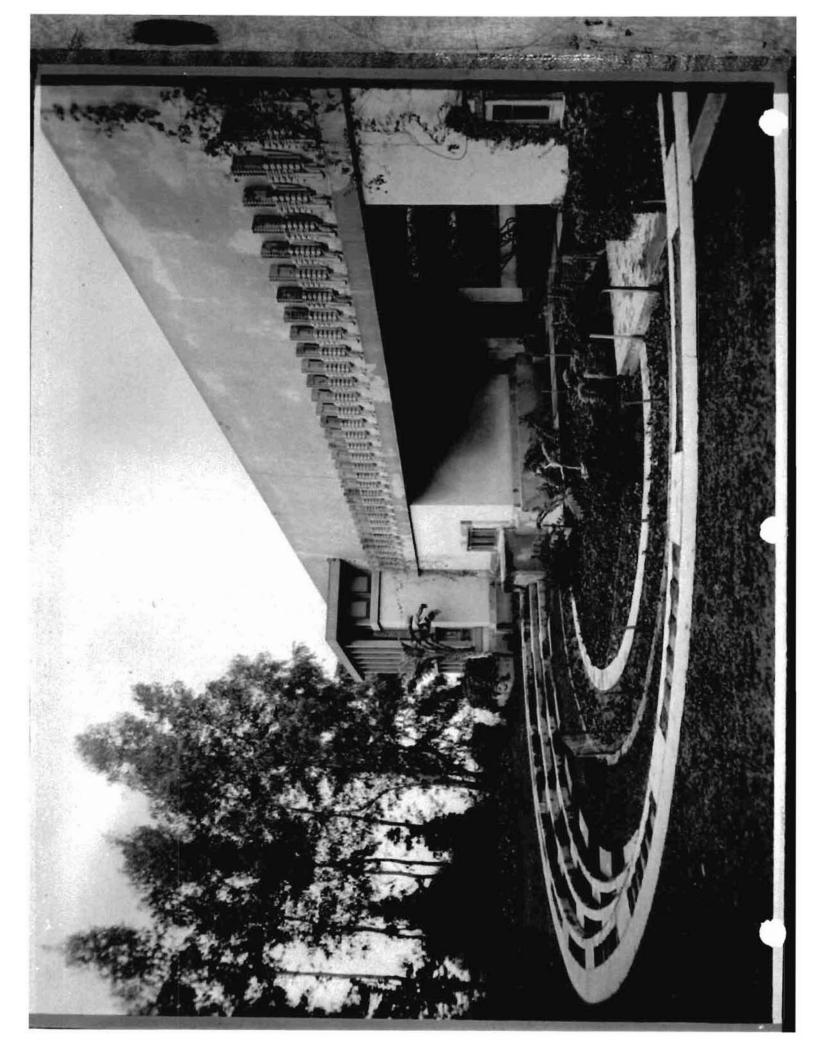
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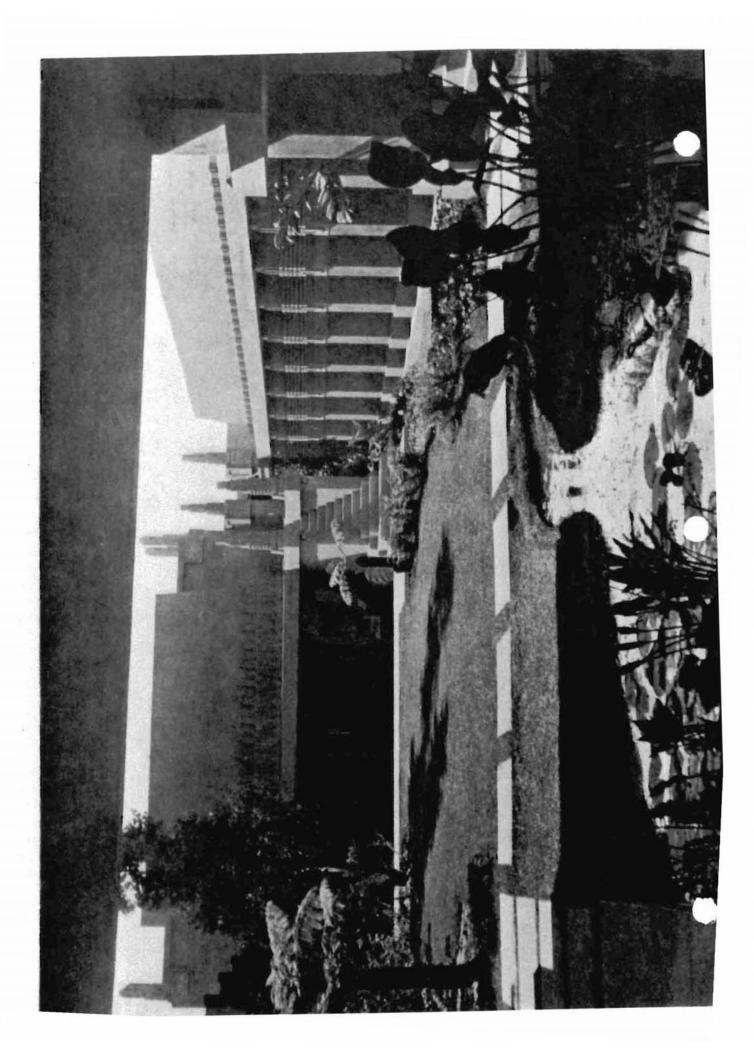
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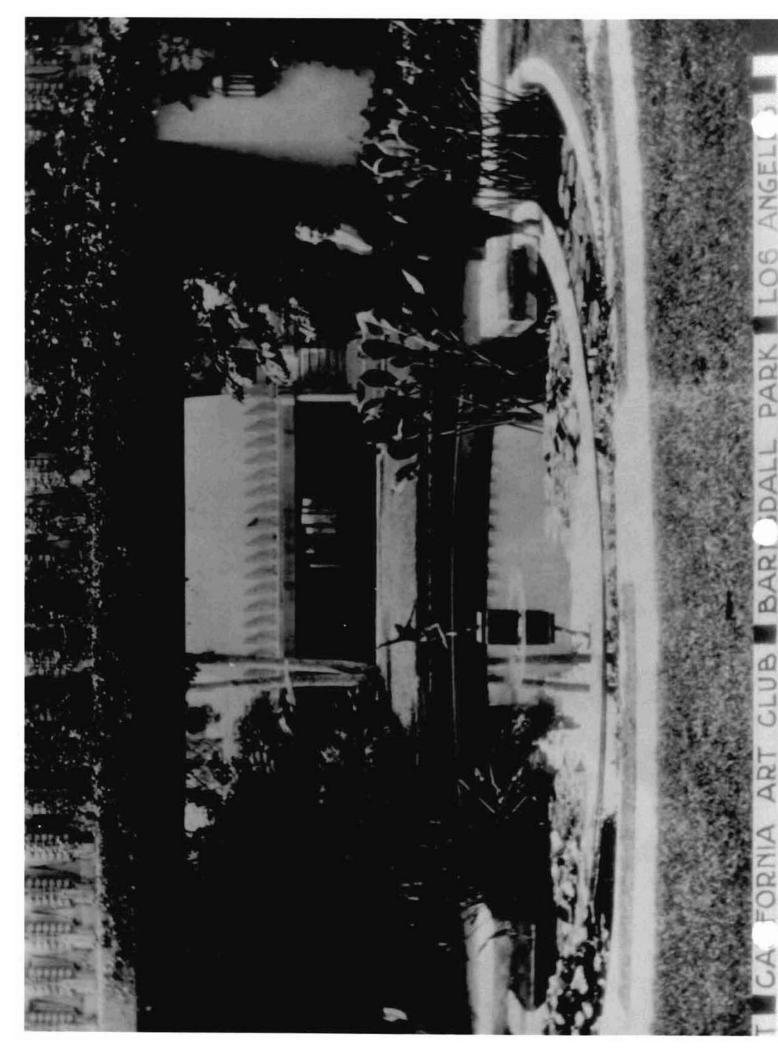
## Appendix

- 1. Archival photo of round fountain
- 2. Archival photo of round fountain
- 3. Archival photo of round fountain
- 4. Archival photo of round fountain
- 5. Existing round fountain overall photo
- 6. Crack detail; north and south
- 7. Piping detail, overflow pipe and possible pump location
- 8. Make-up water detail
- 9. Interior surface detail
- 10. Archival photo of square photo
- 11. Archival photo of square fountain
- 12. Existing square fountain overall photo
- 13. Crack detail
- 14. Make-up water detail
- 15. Interior surface detail
- 16. Typical detail of structural repair method for round fountain
- 17. Typical underground filtration device Vault Pack
- 18. Typical automatic fill device with overflow
- 19. Typical lighting suggestions
- 20. Bonding requirement





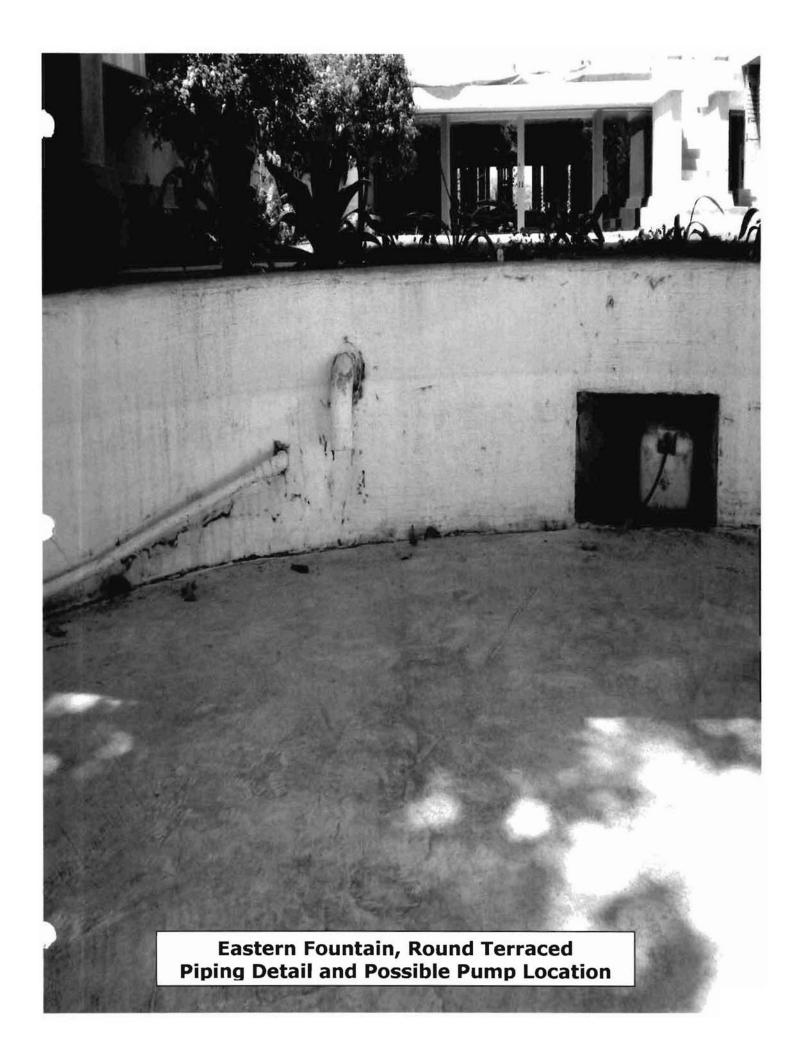


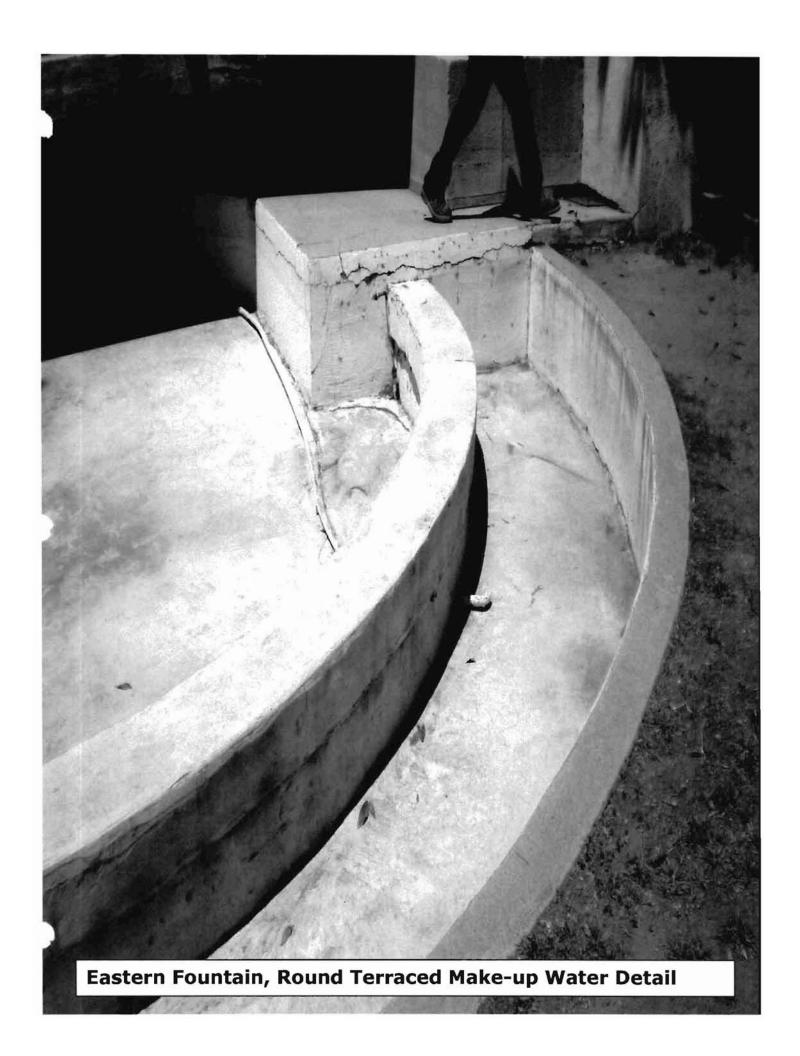


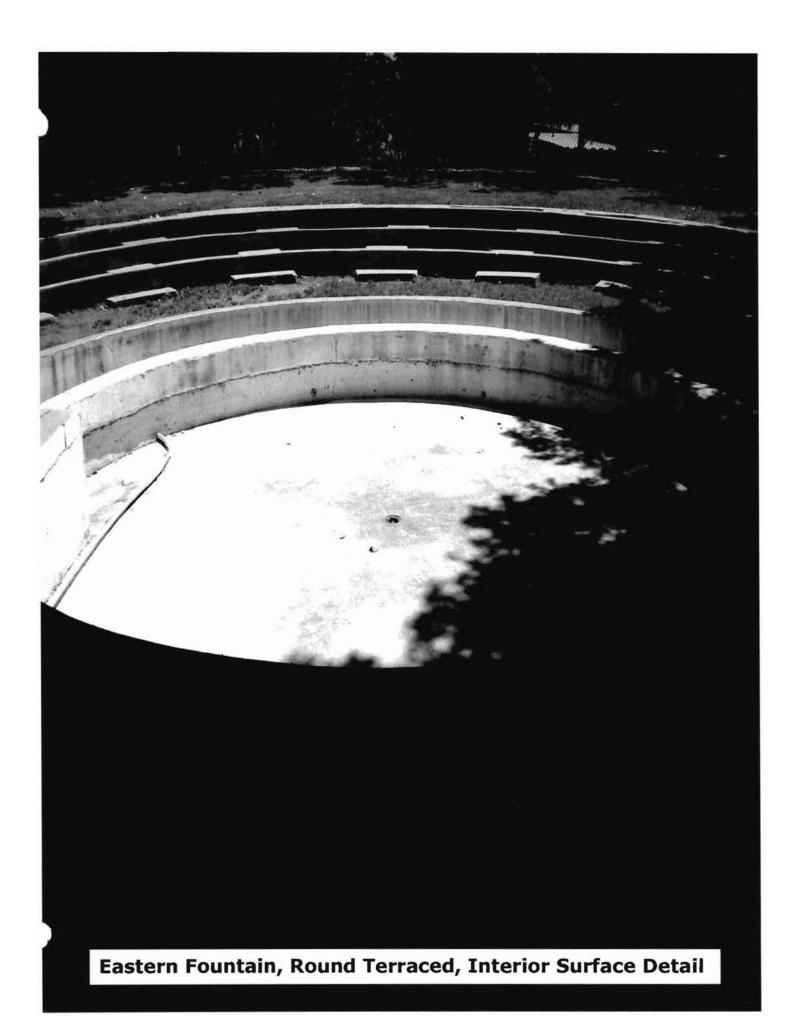


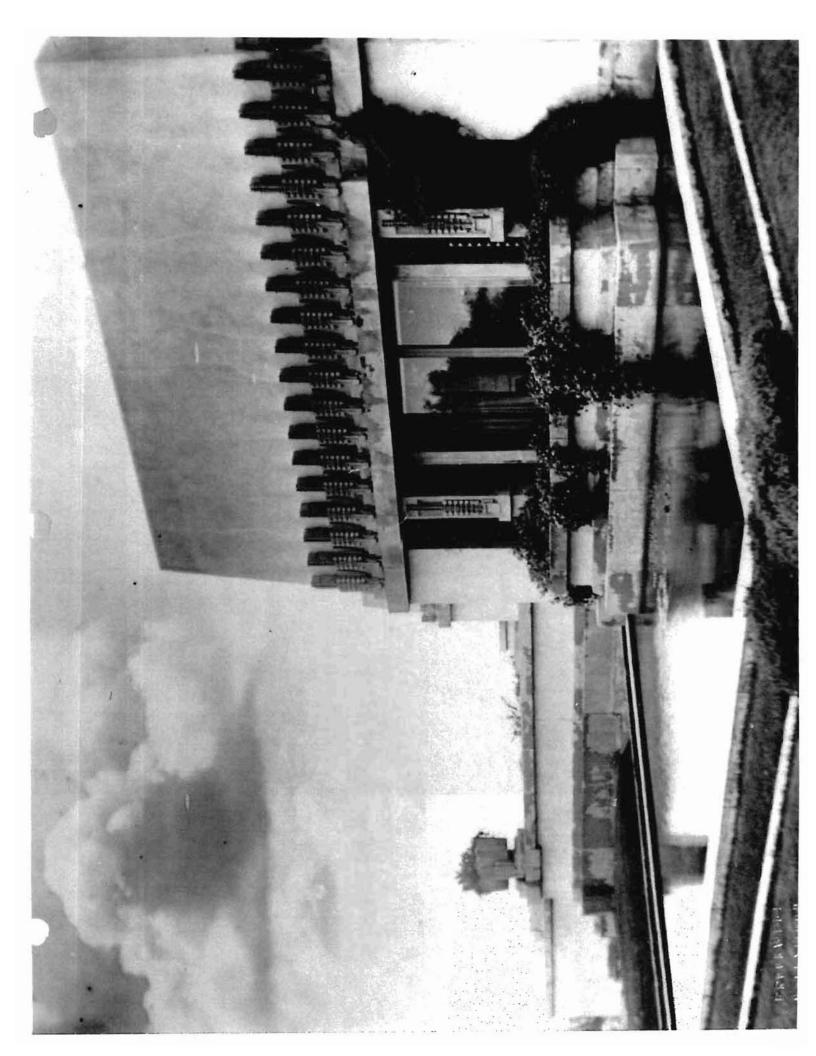


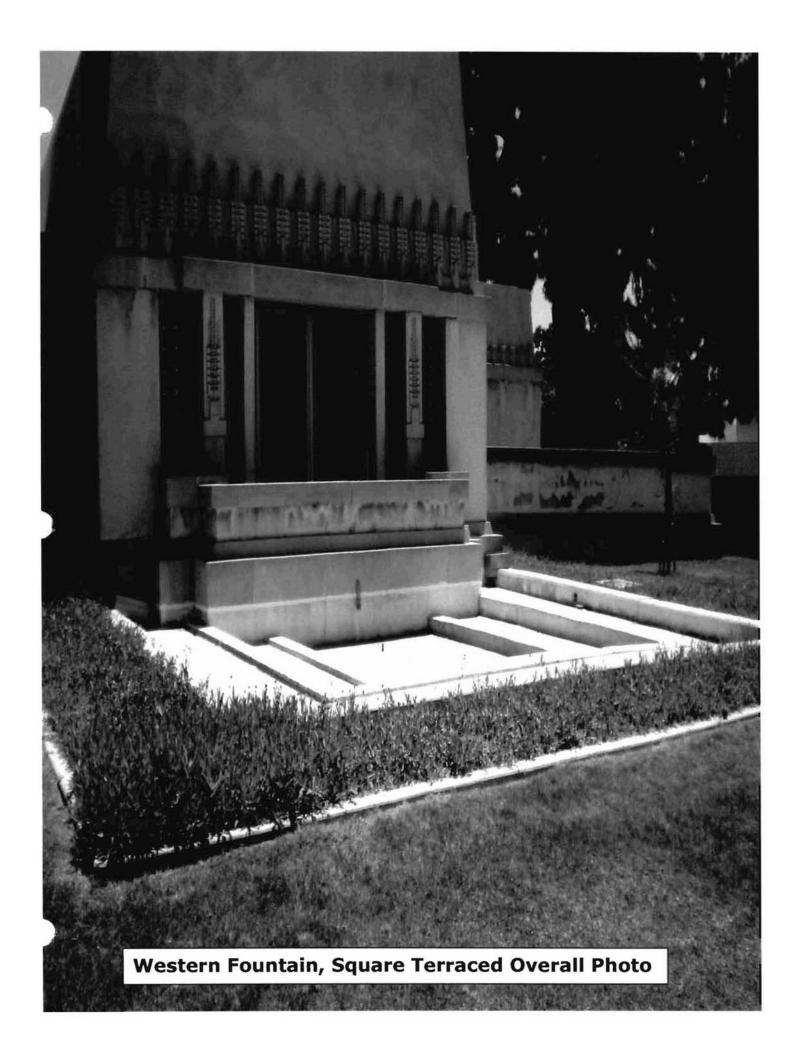




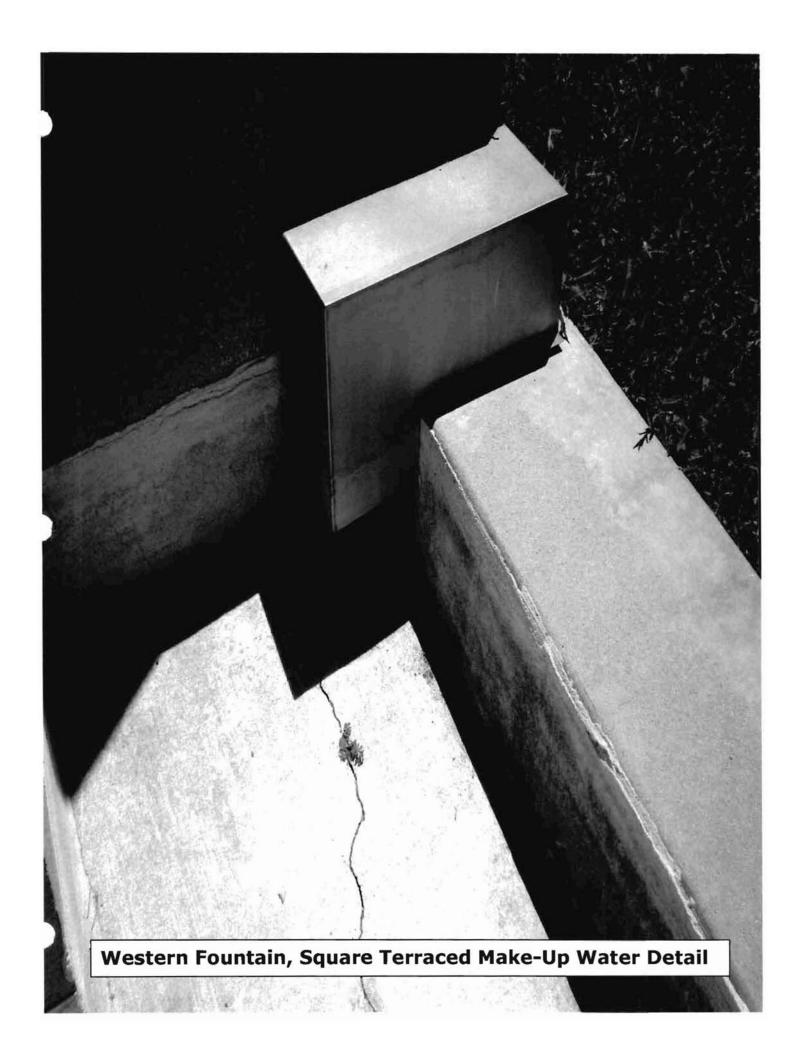






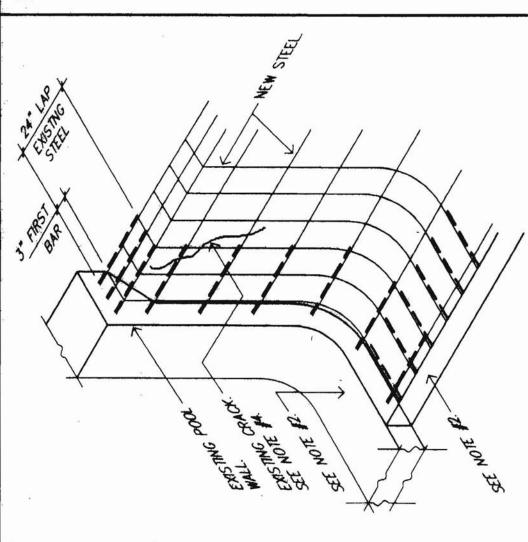












## GENERAL NOTES:

- 1. EPOXY TO BE SIMPSON STRONGTIE
  ACRYLIC-TIE EPOXY OR EQUAL
  INSTALL PER MANUFACTURERS
  SPECIFICATIONS' (ICC REPORT ER-5791)
  - 2. BONDING TO EXISTING SURFACE:
- A. EXISTING SURFACES MUST BE SOUND, FREE OF DEFECTS, CLEAN AND FREE OF BOND INHIBITING MATERIALS.
- B. EXISTING SURFACES SHALL BE ROUGHENED BY CHIPPING OR OTHER SUITABLE MEANS TO PROVIDE OPEN PORE STRUCTURE. ALL LOOSE, CRACK OR DETERIORATED MATERIALS SHALL BE REMOVED.
- C. CLEAN EXISTING SURFACES BY WATER BLASTING.
- D. CEMENT PASTE OR OTHER BONDING AGENTS SHALL BE BRUSHED ONTO THE SUBSTRATE FOR ABSORPTION INTO PORE STRUCTURE. SATURATED, SURFACE DRY CONDITION OF THE SUBSTRATE SHALL BE MAINTAINED TO PREVENT PREMATURE DRYING OF BONDING PASTE.
- 3. USE GRADE 40 REINFORCING STEEL
  - 4. IF REINFORCING SHOWS SIGNS OF EXCESSIVE DETERIORATION (RUST), CUT EXISTING REINFORCING 6" PAST DETERIORATION SECTION & LAP WITH NEW STEEL 24".

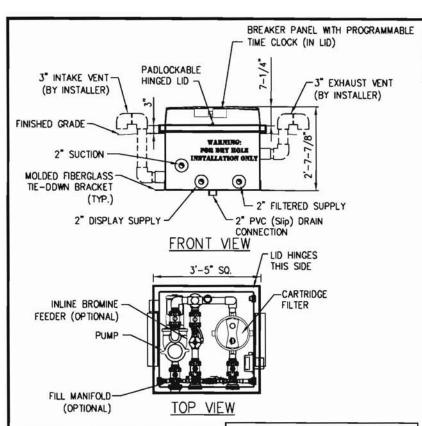
DETAIL FOR REBAR SPACING & GUNITE

**THOKNESS** 

SEE APPROPRIATE

REMOVE GUNITE OR CONCRETE TO EXPOSE 24" OF REINFORCING STEEL (EXISTING) EACH SIDE OF CRACK FOR 24" MIN. LAP SPLICE WITH NEW REINFORCING. POOL REMODEL OR REPAIR

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NOTE:

Due to our continuing product improvement progrom, Romon Fountoins reserved the right to change the specifications without notice.





PUMP PERFORMANCE CURVES (FILTER/DISPLAY COMBINED) GALLONS PER MINUTE (GPM)

NOTE: THIS INFORMATION REPRESENTS MANUFACTURERS TYPICAL UNIT. VARIATIONS MAY OCCUR IN SPECIFIED UNIT TO MEET FOUNTAIN DESIGN & MECHANICAL REQUIREMENTS.

WARNING: FOR 'DRY HOLE' INSTALLATION ONLY.

TEC	CHNICA	L AND HYDRAUL	IC DATA		
MODEL NO.	PUMP HP	AVAILABLE SYSTEM POWER OPTIONS			
RDP-1-050	1/2	120/208-240v., 1¢;	208/240/460v., 3ø		
RDP-1-075	3/4	120/208-240v., 1¢;	208/240/460v., 3¢		
RDP-1-100	1	120/208-240v., 1¢;	208/240/460v., 3¢		
RDP-1-150	1-1/2	120/208-240v., 1¢;			
RDP-1-200	2	120/208-240v., 1¢;			

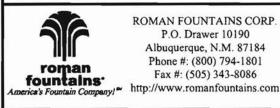
- NOTES: 1. Hatch opening must be located in flood-safe area.
  - 2. Slope finished grade away from pump module.
  - 3. Protect pump module gravity drain from back flow and gas.
  - 4. Top of pump module must be at, or below lowest pool water level.

SPECIFICATION DATA: Pre-Fabricoted Direct Burial Pump Vault; includes a recirculating pump with the horsepower as designated by the catalog number, a 50 sq. ft. cartridge filter, (optional) in-line bromine feeder, (optional) 3/4" make-up/fill manifold; necessary isolation and check valves, power distribution breaker panel and lid-mounted solid state programmable time clock. Pump box is constructed af heovy duty fiberglass with white gel-coat interior and brawn gel-coat exterior furnished with stainless steel piano-hinged lid with padlack point, 'hold-open' arm and trovel limiting cable, 2" floor drain, tie-dawn brackets and 115 CFM fan-farced ventilation system. Unit is pre-wired and pre-plumbed Schd. 80 PVC) and factory tested, prior to shipment. See power aptions above.

DESIGN/APPLICATION DATA: Ramon fountains RDP-Series 1, direct burial pump stations are designed for small fountains where concrete pump stations are not practical and interior mechanical space is not available. All units are factory assembled and tested prior to shipment to job site, minimizing installation and maintenance costs. Systems can be furnished with optional fill manifold, C.F.C.I. protected lighting circuit and bromine chemical feeder; consult factory.

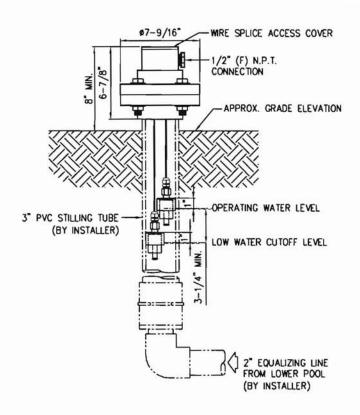
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TYP. ( ) ITEM # \_\_\_\_\_



ROMAN FOUNTAINS CORP. P.O. Drawer 10190 Albuquerque, N.M. 87184 Phone #: (800) 794-1801 Fax #: (505) 343-8086

F	Revisions:		Pre-Fabricated Direct Burial		
No.	Date	By			
7	01/31/08	FG			
-		-1	Drawn By: F.J.G.	Model No.	
			Checked By: J.M.	RDP-1	
			Scale: None	Drawing No.	
			Date: 04/05/99	7.7	



Due to our continuing product improvement program, Roman Fountoins reserved the right to change the specifications without notice.



DESIGNED FOR REMOTE, ABOVE GRADE SENSOR APPLICATIONS.

	TE	CHNICAL DA	TA	
MODEL	MOUNTING TYPE	CONDUIT CONNECTION	PRIMARY VOLTAGE	PROBE VOLTAGE
RCOM-RNF	3" PVC RISER	1/2"	120V.	12V.

WARNING: Do not run sensor cable in conduit with any other conductors.

NOTES:

- 1. Ideal for opplications where minimal pool depth or freeboard exist, or where sensor may not be visible within pool structure.
- 2. Sensor mounting height and (level) equalizing line depth as required for application.
- 3. A normally closed electrically actuated, 120V, solenoid valve is required to operate water makeup function; specify RSV-
- 4. A lighting and/or motor contactor is required to operate the low level cutoff function; consult factory.
- 5. Unit is designed to manitor the lower pool water level from a remote location.

SPECIFICATION DATA: Remote Location Sensor Houing Make-up/Low Level Cutoff Housing, consisting of heavy duty Schedule 80 PVC housing with two (2) suspension type float switches each with integral 6 foot long float cable standard; 100 feet of pre-ottached, 4-conductor, color-coded sensor cable; 1/2" (F) N.P.T. conduit connection and stainless steel fasteners. When specified as a system, package includes a RCOM-Series dual function solid state relay control board in a NEMA 1 enclosure (for indoor use only) rated for 120VAC with internally transformed 24 VAC sensor output circuit.

DESIGN/APPLICATION DATA: RCOM Series, combination water moke-up and low water level cutoff housing is designed for use in fountains and reflecting pools where automatic water level manitoring is required. Unit provides simultaneous water level control and automatic fill, in addition to law water level monitoring, enabling circuit shutdown for pump and/or lighting circuit(s) in the event of a low water level condition.

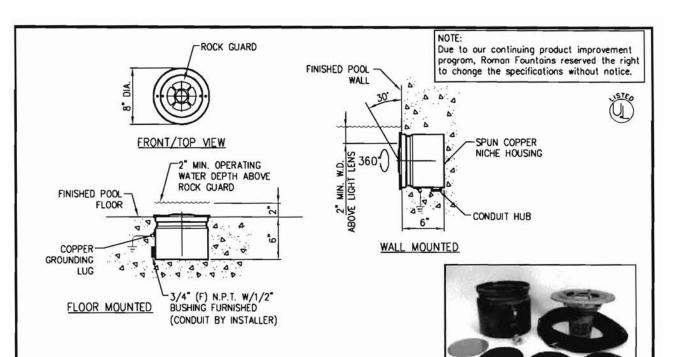
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TYP. ( ) ITEM #



ROMAN FOUNTAINS CORP. P.O. Drawer 10190 Albuquerque, N.M. 87184 Phone #: (800) 794-1801 Fax #: (505) 343-8086

r	cevisions.	_	Remote Locatio	on Sensor Housing
No.	Date	Ву		
1	05/31/07	FG	Make-up/Low Le	vel Cutoff Housing
2	01/31/08	FG	Drawn By: F.J.G.	Model No.
_			Checked By: J.M.	RCOM-RNF
		17	Scale: None	Drawing No.
			Date: 04/10/06	4.14a



NOTE: NOT TO BE USED IN SWIMMING POOL OR SPA APPLICATIONS.

20' CORD LENGTH IS STANDARD

NOTE: PHOTO SHOWN WITH COLOR LENS COVER OPTIONS.

			TECHNICAL	DATA		
MODEL	WATTAGE	VOLTAGE	AVAILABLE REFLECTORS	LAMP TYPE	APPROXIMATE INITIAL LUMENS	APPROXIMATE LAMP LIFE
RFL-100-EN	100 W.	120 V.	(SP)(M)(FL)	100 Q/CL	1900	2000 HOURS
RFL-150-EN	150 W.	120 V.	(SP)(M)(FL)	150 Q/CL	2800	2000 HOURS
RFL-250-EN	250 W.	120 V.	(SP)(M)(FL)	250 Q/CL	4800	2000 HOURS
RFL-500-EN	500 W.	120 V.	(SP)(M)(FL)	500 Q/CL	9800	2000 HOURS

NOTE: LAMP IS FURNISHED SEPARATELY (WHEN ORDERED) & INSTALLED BY ELECTRICIAN.

- NOTES: \*1. Lomps are not included with fixtures unless specifically listed in specification data or quotation.
  - 2. Lamp life and lumens published by lamp manufacturer; not guaranteed by Roman Fountains.
  - 3. A submersible junction box and potting compound may be required far installation; consult factory.

  - All fixtures are thermally protected with an internal cutoff device.
     Additional cable lengths, in 10' increments, available; consult factory.

SPECIFICATION DATA: Adjustable, Niche-Mounted Submersible Light Fixture, Adjustable aiming underwater light fixture of cost bronze construction with integral rockguard, stainless steel and bronze fasteners, spun copper niche with 3/4" (F) N.P.T. conduit entry with 3/4"x1/2" brass reducer bushing, clear tempered glass lens, silicone molded, U-shaped gasket, integral thermal cutoff device and 20 feet of submersible 16-3 S/T cord.

Fixture shall be U.L. Listed for 120-volt operation, 500 watt max.

DESIGN/APPLICATION DATA: Roman Fauntains RFL-EN Series adjustable niche-mounted submersible light fixtures are designed for use in fountoin or reflecting pools where a niche-mounted fixture with angle and rotation adjustments is required. Available in a ronge of wattages, their compact design allows use in depths as shallow as 2", when floor mounted (see illustration above).

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) ITEM # \_ TYP. (



ROMAN FOUNTAINS CORP. P.O. Drawer 10190 Albuquerque, N.M. 87184 Phone #: (800) 794-1801 Fax #: (505) 343-8086 http://www.romanfountains.com

H	devisions:		Adjustable	Niche Mounted
No.	Date	Ву	3	
1	02/25/04	FG	Submersib	le Light Fixture
2	01/03/05	FG	Drawn By: F.J.G.	Model No.
3	08/09/05	FG		
4	10/18/05	FG	Checked By: J.M.	RFL-EN Series
5	01/13/06	FG	Scale: None	Drawing No.
6	01/31/08	FG	Date: 04/07/99	5.3

## #20. 680.26 EQUIPOTENTIAL BONDING

This change requires an equipotential bonding grid to be installed to reduce voltage gradients in and around permanently installed pools, outdoor spas, and outdoor hot tubs.

(B) Bonded Parts. The following parts of a permanently installed pool, outdoor spa, and outdoor hot tub must be bonded to a equipotential bonding grid of the type specified in 680.26(C).

Author's Comment: See 680.42(B) for the bonding methods permitted for outdoor spas and hot tubs.

(1) Metallic Parts of Structure. All metallic parts of the water structure, including the reinforcing metal of the permanently installed pool, outdoor spa, and outdoor hot tub shell and deck, must be bonded to the equipotential grid. The usual steel tie wires are considered suitable for bonding the reinforcing steel together for this purpose. Welding or special clamping is not required, but the tie wires must be made tight. (Fig. 20)

Where the reinforcing steel of the permanently installed pool, outdoor spa, and outdoor hot tub shell and deck are encapsulated with a nonconductive compound or if it's not available, an equipotential grid constructed in accordance with 680.26(C) must be installed to mask stray voltage gradients.

(2) Underwater Lighting. All metal forming shells for underwater permanently installed pool, outdoor spa, and outdoor hot tub luminaires and speakers.

Permanently Installed Pools
Bonding Metal Parts
Section 680.26(B)(1)

Equipotential Bonding Grid

All metal parts of pool
structures must be bonded
together. Nonconductive steel
cannot be used because it does
not eliminate voltage gradients.

- (3) Metal Fittings. Metal fittings within or attached to the permanently installed pool, outdoor spa, and outdoor hot tub structure, such as ladders and handrails.
- (4) Electrical Equipment. Metal parts of electrical equipment associated with the permanently installed pool, outdoor spa, and outdoor hot tub water circulating system, such as water heaters and pump motors. Accessible metal parts of listed equipment incorporating a system of double insulation and providing a means for grounding internal metal parts are not required to be directly bonded to the equipotential grid.
- (5) Metal Wiring Methods and Equipment. Metal-sheathed cables and raceways, metal piping, and all fixed metal parts, as well as metallic surfaces of electrical equipment, must be bonded to the equipotential grid if located:
- (1) Within 5 ft horizontally of the inside walls of the permanently installed pool, and outdoor spa or hot tub, and
- (2) Within 12 ft measured vertically above the maximum water level of the permanently installed pool, outdoor spa, and outdoor hot tub, or any observation stands, towers, or platforms or any diving structures.

An equipotential grid is now required in or under the permanently installed pool, outdoor spa, and outdoor hot tub deck to help mask stray voltage from utility wiring errors, deteriorating primary utility neutral conductors, ground faults that haven't cleared, as well as appliance and equipment leakage current.

(C) <u>Equipotential</u> Grid. A solid copper conductor not smaller than 8 AWG must be used to bond the metallic parts of a permanently installed pool, outdoor spa, and outdoor hot tub as specified in 680.26(B) to an <u>equipotential</u> grid. The termination of the bonding conductor must be made by exothermic welding, listed

Pools, Outdoor Spas, and Outdoor Hot Tubs
Equipotential Bonding Grid
Section 680.26(C)

Equipotential Bonding
Grid [680.26(C)(1)]

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A solid copper conductor not smaller than 8 AWG bonds the metallic parts to an equipotential bonding grid.

pressure connectors, or listed clamps that are suitable for the purpose. (Fig. 21)

To properly mask stray voltage, an equipotential grid must extend under the permanently installed pool, outdoor spa, and outdoor hot tub, and walking surfaces for 3 ft horizontally from the water. The equipotential grid must be formed from one or more of the following: (Fig. 22 below)

- (1) Structural Reinforcing Steel. Structural reinforcing steel of the concrete permanently installed pool, outdoor spa, and outdoor hot tub.
- (2) Bolted or Welded Metal Pools. The walls of a bolted or welded metal permanently installed pool, outdoor spa, and outdoor hot tub.
- (3) Other Methods. The equipotential grid can be constructed as specified in (a) through (c).
- (a) Materials and Connections. The equipotential grid can be constructed with 8 AWG bare solid copper conductors that are bonded to each other at all points of crossing.
- (b) Grid. The equipotential grid must cover the contour of the permanently installed pool, outdoor spa, and outdoor hot tub, and deck extending 3 ft horizontally from the water. The equipotential grid must be arranged in a 1 ft × 1 ft network of conductors in a uniformly spaced perpendicular grid pattern with a tolerance of 4 in.
- (c) Securing. The equipotential grid must be secured.

