

# B W I M M I N G

# P O O L

IMPROVEMENTS FOR  
**SHAMEL PARK**  
 3650 ARLINGTON AVENUE  
 RIVERSIDE, CALIFORNIA 92506

PREPARED FOR  
 CITY OF RIVERSIDE PARK & RECREATION DEPARTMENT  
 3900 MAIN STREET, RIVERSIDE, CALIFORNIA 92522

REVISIONS	BY
A6-BUILT	EB

**Rowley International Inc**  
 Engineering  
 Filtration  
 Solar  
 Hydro  
 2325 Palos Verdes Drive West  
 Second Floor  
 Palos Verdes Estates, California 90274  
 (213) 377-6724

**SHAMEL POOL**  
 Prepared for  
 City of Riverside Park & Recreation Department  
 3900 Main Street, Riverside, CA 92522

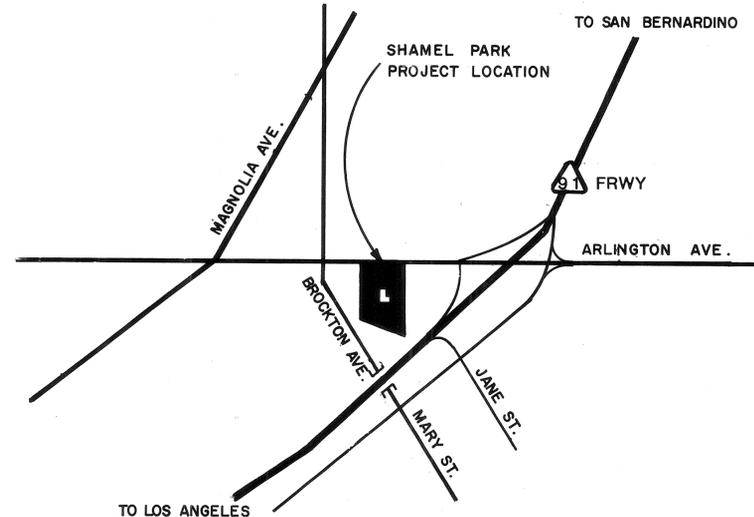
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Electrical Engineer  
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 Irvine, CA 92718  
 (714) 768-6911

### VICINITY MAP



THOMAS BROS. MAP NO. 13  
 RIVERSIDE COUNTY BOOK  
 GRID COORDINATES **A-4**

### SHEET INDEX

SHEET INDEX	
T-1	TITLE SHEET
SP/A1	SITE PLAN
SP/A2	POOL & DECK PLAN & SECTIONS (DEMO)
SP/A3	FILTRATION ROOM PLAN & SECTIONS (DEMO)
SP/A4	EQUIPMENT SCHEDULE & GENERAL NOTES
SP/A5	POOL PLAN & SECTIONS
SP/A6	DETAILS
SP/A7	CHLORINE ROOM PLAN, SECTIONS & ELEVATIONS
SP/A8	DETAILS
F-1	FILTRATION ROOM PLAN & SECTIONS/ELEVATIONS
F-2	DETAILS

### APPROVALS

*Dee W. Bachman* 7/1/87  
 Dee W. Bachman, Director of Park and Recreation / Date

*Terry Nielson* 10/23/87  
 Terry Nielson, Park Superintendent / Date

*Ron Reese* 10-23-87  
 Ron Reese, Recreation Superintendent / Date

*Robert L. Johnson* 10-23-87  
 Robert L. Johnson, Park Project Coordinator / Date

**SHEET 39 OF 65**  
 DRAWN  
**ANNE McCOWAN**  
 CHECKED  
**WNR**  
 DATE  
**MAY 6, 1987**  
 SCALE  
**NONE**  
 JOB NO.  
**86.113**  
 SHEET  
**TITLE SHEET w/  
 SHEET INDEX &  
 VICINITY MAP**  
 OF T-1 SHEETS

REVISIONS	BY
AS-BUILT	RB

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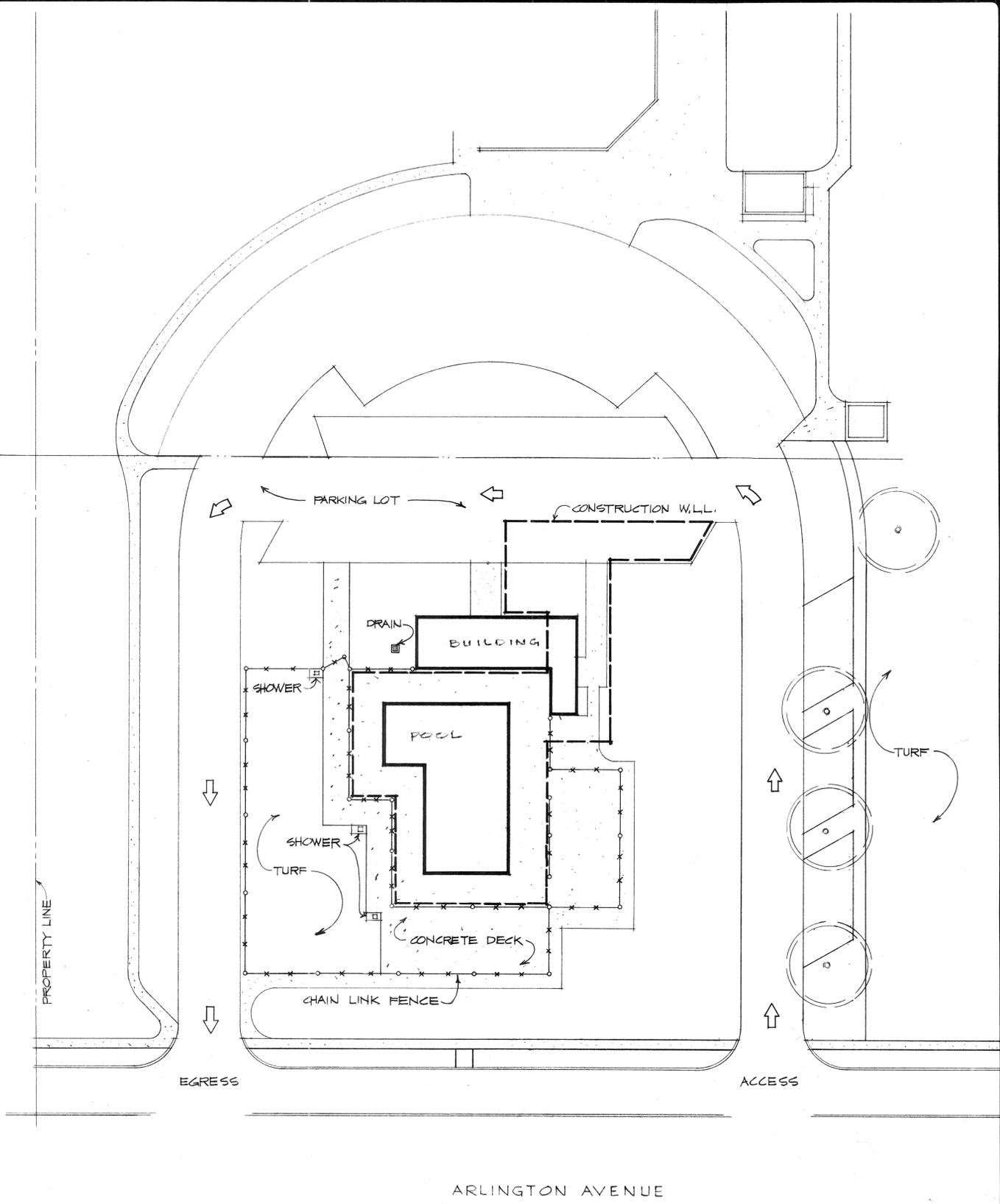
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SHEET 40 OF 65

DRAWN	ANNE MCCOWAN
CHECKED	W.N.R.
DATE	MAY 6, 1987
SCALE	AS SHOWN
JOB NO.	86.113
SHEET	SITE PLAN
SP/A-1	
OF	SHEETS

PLAN NO. P-0532



NO CONSTRUCTION EQUIPMENT BEYOND THIS LINE

**ADDITIVE ITEMS**

- REFER TO THE BID PROPOSAL DOCUMENTS FOR THE FOLLOWING ITEMS:  
 1. INSTALL AUTOMATIC FLOW CONTROL VALVE (ITEM #9 ON SHEET SP/A-4).

**SITE PLAN**  
 SCALE : 1" = 30'-0"



REVISIONS	BY
A6-BUILT	RB

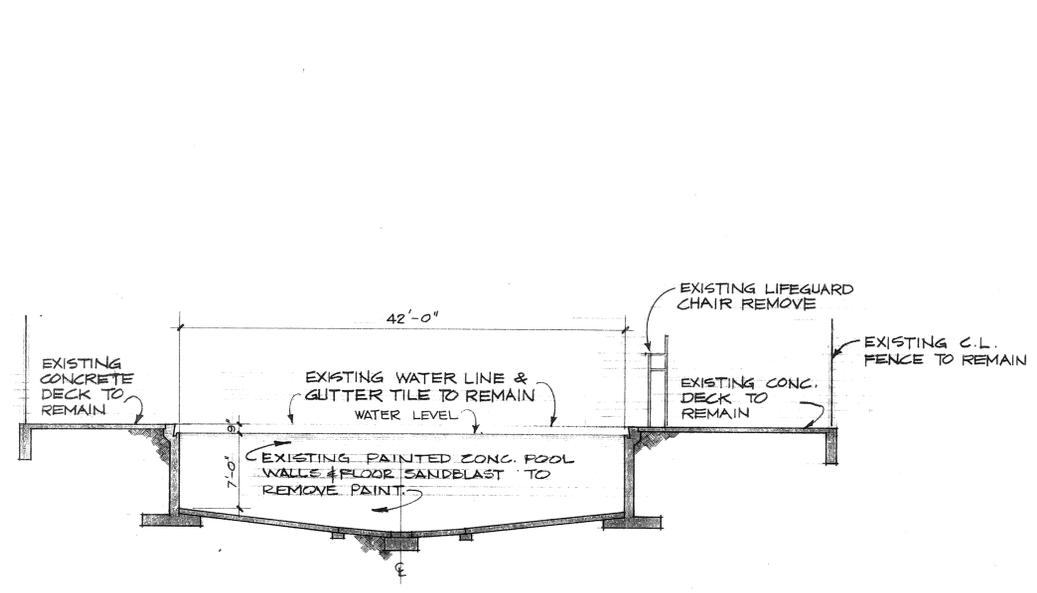
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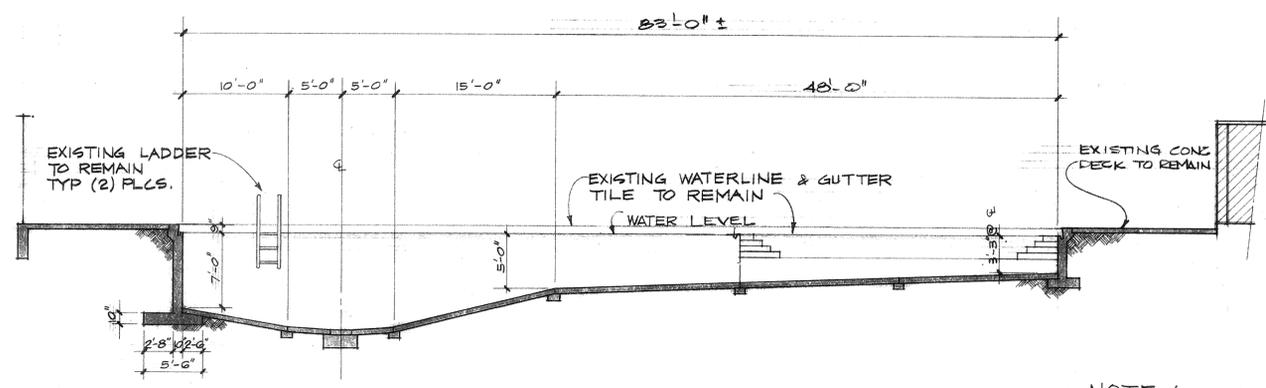
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SHEET 41 OF 65

DRAWN	A. C. ROQUE
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DATE	MAY 6, 1987
SCALE	AS SHOWN
JOB NO.	86.113
SHEET	POOL & DECK PLAN (DEMOLITION)
OF SP/A-2 SHEETS	

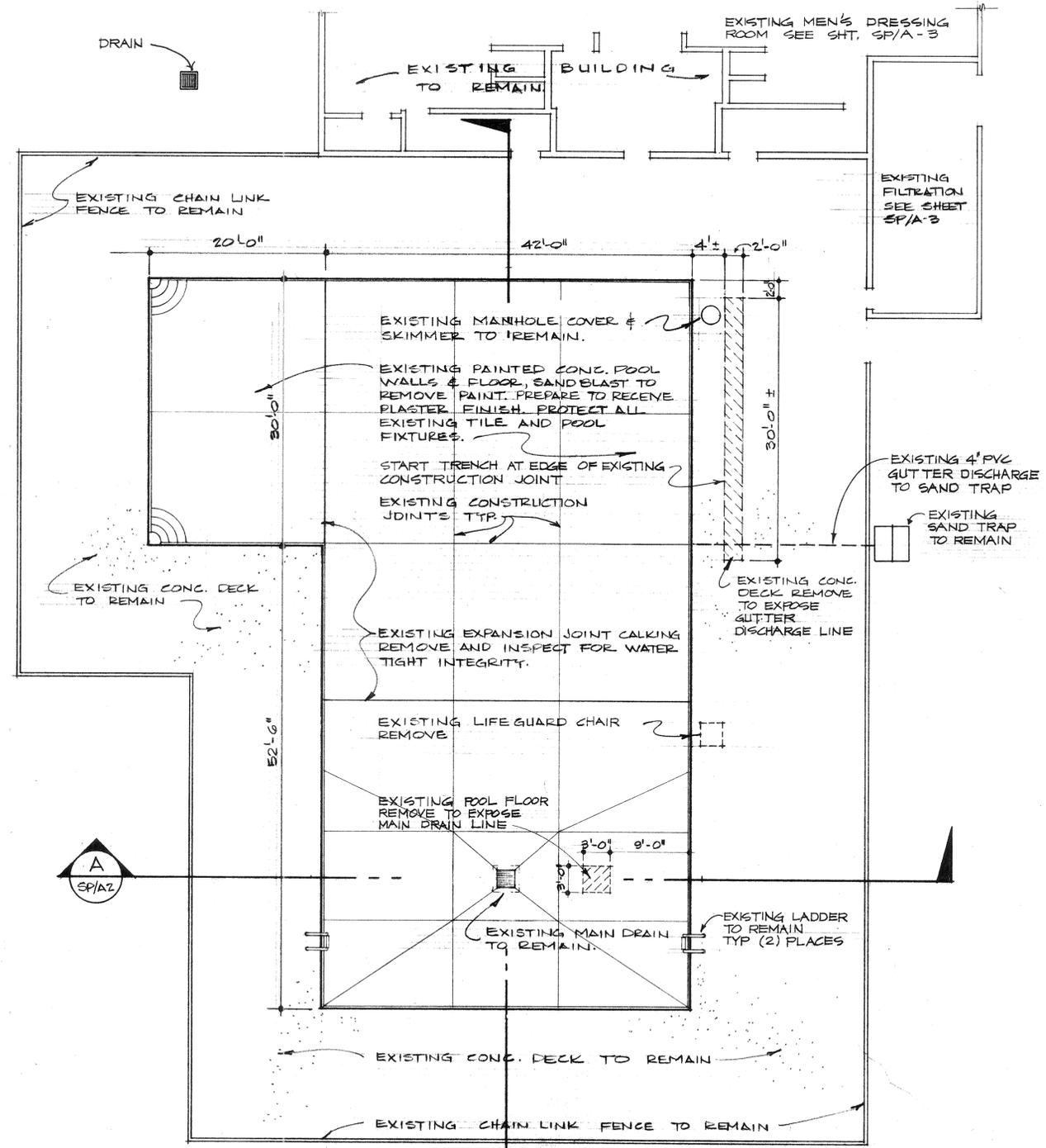


**A SECTION**  
 SP/A-2 SCALE: 1/8" = 1'-0"



**B SECTION**  
 SP/A-2 SCALE: 1/8" = 1'-0"

**NOTE:**  
 ADDITIONAL CONCRETE DECK REMOVAL AND REPLACEMENT BEYOND THE LIMITS SHOWN ON THE DRAWINGS SHALL BE DONE SOLELY AT THE EXPENSE OF THE CONTRACTOR UNLESS APPROVED OTHERWISE, IN WRITING BY THE CITY.



**NOTE:** SEE SHEET SP/A5 FOR RECONSTRUCTION.

**POOL & DECK PLAN**  
 SCALE: 1/8" = 1'-0" (DEMOLITION)



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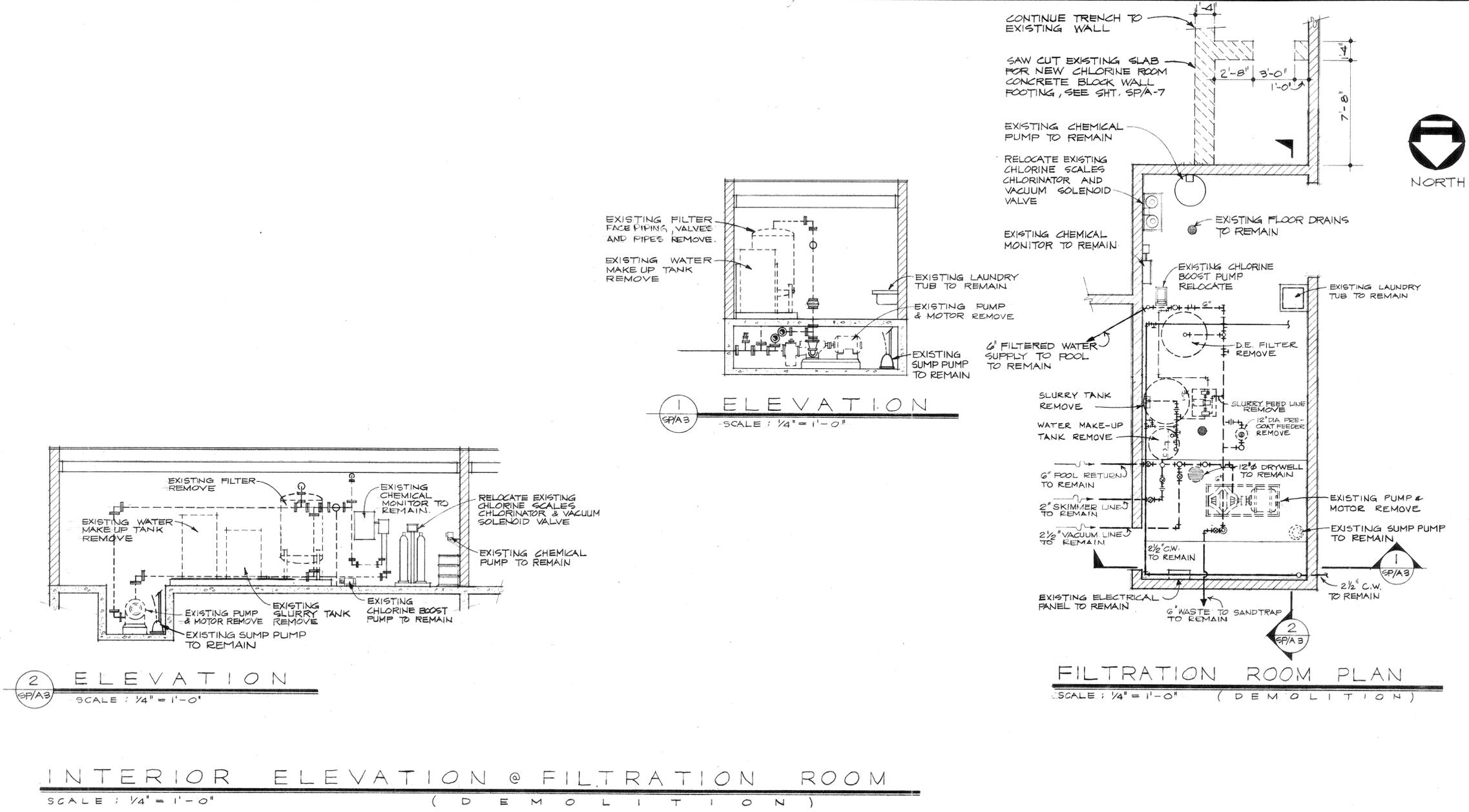
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SHEET 42 OF 65

DRAWN A. C. ROQUE
CHECKED W. N. R.
DATE MAY 6, 1987
SCALE AS SHOWN
JOB NO. 86.113
SHEET FILTRATION ROOM PLAN (DEMOLITION)
SP/A-3 SHEETS

PLAN NO. P - 0532



**DEMOLITION NOTES**

1. VERIFY EXISTING CONDITIONS AND ACCURACY OF DRAWING DIMENSIONS BEFORE STARTING WORK. REPORT DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS TO EXECUTIVE ENGINEER FOR INSTRUCTIONS BEFORE STARTING WORK.
2. PROTECT EXISTING WORK WHICH IS TO REMAIN IN PLACE OR IS TO BE REUSED PER SPECIFICATION REQUIREMENTS.
3. VERIFY THE INTEGRITY OF ALL WORK TO REMAIN.
4. ADDITIONAL WORK DETERMINED NECESSARY DURING CONSTRUCTION SHALL BE APPROVED BY THE CITY AND EXECUTIVE ENGINEER.
5. ALL BURIED SUCTION AND RETURN PIPING TO THE POOL IS TO REMAIN. CONNECT NEW PVC PIPING AT FLOOR IN FILTRATION ROOM.
6. ALL DECK EQUIPMENT AND MECHANICAL EQUIPMENT REMOVED AND NOT REUSED SHALL REMAIN PROPERTY OF THE CITY AND SHALL BE DELIVERED, BY THE CONTRACTOR, TO THE MULBERRY YARD AT 3880 MULBERRY, RIVERSIDE, CA., AT THE CITY'S OPTION. ANY EQUIPMENT THAT THE CITY ELECTS NOT TO SALVAGE SHALL BE DISPOSED OF OFF SITE IN A LEGAL MANNER BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.

# EQUIPMENT SCHEDULE

ITEM NO.	LOCATION	DET.	QTY.	DESCRIPTION	MFGR.
1	DECK EQUIPMENT	2 SPA-6	1	LIFEGUARD CHAIR - 6' HIGH, WITH 304 STAINLESS STEEL FRAME, BRONZE ANCHORS, ANCHOR STUB.	KDI PARAGON 20002
2		2 SPA-5	1	LIFE LINE - 3/4" POLYETHYLENE ROPE 42' LONG WITH HOOKS AND (14) 5" X 9" FLOATS.	KDI PARAGON C2983, C3030, & C3040
3		1 SPA-6	2	CUP WALL ANCHORS - CHROME PLATED CAST BRONZE ANCHOR WITH THREADED CHROME PLATED BRONZE EYEBOLT.	KDI PARAGON 70316
4					
5	POOL FIXTURES	3 SPA-6	1	MAIN DRAIN OUTLET - 12" X 12" CHROME PLATED BRONZE FRAME AND GRATE, VANDAL PROOF.	SWIMQUIP 7120
6					
7	FILTRATION EQUIPMENT	7 F-1	1	FILTER SYSTEM - FULLY AUTOMATED PERMANENT MEDIA HI-RATE SAND FILTER WITH (2) TANKS AND 6" FACE PIPING.	EPD MODEL 201
8		8 F-1	1	PUMP - 15 H.P., 3450 RPM, 3Ø, 60 HZ, 2ØBV, BRONZE FITTED, SELF-PRIMING WITH ATTACHED STRAINER BASKET AND EPOXY COATED WETTED SURFACES. 4" DISCHARGE X 6" SUCTION. 450 GPM @ 80' HEAD.	PUREX CMK-150
9		9 F-1	1	FLOW CONTROL VALVE - STAINLESS STEEL BODY WITH ELASTOMETRIC CONTROL MEMBER, AND AUTOMATIC PILOT CONTROL. 6" SIZE.	ROLL SEAL 06-S-S7-L-15 140-RF - 450 GPM
10		10 F-1	1	FLOWMETER - SELF POWERED WITH ANALOG READOUT, 0-1200 GPM SCALE RANGE FOR 6" PIPE.	SIGNET MK 509
11		11 F-1	1	FLWSENSOR - PADDLEWHEEL TYPE WITH 1-50 FT/SEC. RANGE, AND SADDLE FOR 6" PIPE.	SIGNET MK 515
12		12 F-1	1	THERMOMETER - STAINLESS STEEL CASE AND STEM, 30°-130° F RANGE, MOUNTED IN 6" POOL RETURN LINE.	LETRO SL-1D
13					
14					
15					
16	CHEMICAL TREATMENT	5 F-2	1	CHLORINE DETECTOR - DETECTS 1 PPM OF CHLORINE WITH INTEGRAL FAN FOR POSITIVE SAMPLING OF AIR. WALL MOUNTED 115 V, 0.4 A.	WALLACE & TIERNAN #50-125
17		7 SPA-6	1	EYEWASH AND SHOWER STATION - 1 1/4" GALVANIZED PIPE WITH 9" FLOOR FLANGE, SELF-CLOSING SHOWER BALL VALVE, 1 1/4" SUPPLY AND WASTE.	HAWS #8300
18		5 SPA-8	1	EXHAUST FAN - 645 CFM @ 1/2" TSP, FRACTIONAL HP MOTOR, 1550 RPM, 115V, 1Ø, 60 HZ, WALL MOUNTED IN-LINE FAN, WITH ACOUSTICALLY INSULATED HOUSING, EISENHEISS COATING, AMCA AND UL RATED.	PENN VENTILATOR CO. #Z11 TDA
19		19 SPA-7	1	CHLORINE ALARM HORN - LOW CURRENT, HIGH DECIBEL HORN OR SIREN. 120 V, 0.28A.	EDWARDS SIGNALING DEVICES #5520-N5
20		20 SPA-7	1	CHLORINE STROBE BEACON - HIGH INTENSITY STROBES RED LENS, 80 DOUBLE FLASHES PER MINUTE, WITH FLANGE FOR MOUNTING ON 1" PIPE. 120V, 0.40A.	EDWARDS SIGNALING DEVICES #57R-AY
21				SAFETY SIGNS - SEE SPECIFICATIONS SECTION 1315.4.	
22					
23					
24					
25					
26					

NOTE :  
ALL ITEMS LISTED IN THE EQUIPMENT SCHEDULE ARE NEW UNLESS STATED OTHERWISE. THIS IS A LIST OF MAJOR EQUIPMENT ONLY. ADDITIONAL ITEMS REQUIRED TO COMPLETE THIS WORK SHALL BE PROVIDED BY THE CONTRACTOR.

## GENERAL NOTES

### FILTRATION

1. FILTER TANK ASSEMBLIES BEAR THE NATIONAL SANITATION SEAL OF APPROVAL FOR A MAXIMUM FLOW RATE OF 20 G.P.M. PER SQ. FT. OF FILTER AREA.
2. FILTER TANKS WITH EXTERNAL AND INTERNAL ACCESSORIES: MANUFACTURER TO PROVIDE GUARANTEES AND WARRANTIES AND SPARE PARTS NECESSARY FOR STANDARD FILTER OPERATION AND MAINTENANCE.
3. FILTER MANUFACTURER TO CERTIFY FILTER MEDIA.
4. POST ON WALL FILTER OPERATING INSTRUCTIONS WITH VALVE OPERATING SEQUENCES CHART. MOUNT IN WATER RESISTANT / WATERTIGHT CONTAINER - 48" ABOVE FLOOR NEAR FILTERS, NUMBER VALVES TO CORRESPOND WITH INSTRUCTIONS ON VALVE SEQUENCING PROCEDURE PER SPECIFICATIONS.
5. PROTECT POTABLE WATER CONNECTION TO FILTER AUTOMATIC BACKWASH VALVES WITH A PRESSURE VACUUM BREAKER.

### PLUMBING

1. SANDBLAST ALL FERROUS METAL TO WHITE METAL INCLUDING FACE OF FLANGES AND COAT PER SPECIFICATIONS.
2. SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS.
3. INSTALL ALL PIPING PER SPECIFICATION REQUIREMENTS.
4. IDENTIFY ALL FILTER ROOM PIPING WITH PAINTING CODE AND ARROWS PER SPECIFICATIONS.
5. ALL BUTTERFLY VALVES UP TO 6" : LEVER OPERATED, ALL BUTTERFLY VALVES OVER 6" GEAR OPERATED. USE VALVES RATED FOR 150 P.S.I. AND 200 °F.
6. POOL CIRCULATION PIPING AND ALL P.V.C. FITTINGS SHALL BE SCHEDULE 80 P.V.C. INJECTION MOLDED AND SOLVENT WELDED.
7. ALL VALVES 1/2" THRU 3" I.P.S. "TRUE UNION" STYLE SOCKET WITH REPLACEABLE TEFLON SEAT INJECTION MOLDED AND SOLVENT WELDED.
8. ALL PIPING PASSING THROUGH WALLS OF WATER HOLDING TANKS AND FITS SHALL HAVE A FLANGE TYPE WATERSTOP OF FULL PIPE SIZE DIAMETER INSTALLED.
9. COORDINATE THE INTERFACING OF THE EXISTING CITY WATER AND BACKWASH TO WASTE LINES WITH THE CITY OF RIVERSIDE.

### PUMPS

1. PROVIDE ALL PUMPS WITH SEPARATE "ON/OFF" SWITCH, INSTALL A MASTER CONTROL SWITCH WITH "ON/OFF" FOR EMERGENCY OPERATION.
2. INTERLOCK FILTER PUMP WITH CHEMICAL METERING PUMP AND CHLORINE BOOST PUMP.

### CONCRETE

1. DO NOT PLASTER POOL UNTIL NEW CONCRETE AT MAIN DRAIN HAS CURED FOR 28 DAYS.

### CHEMICAL

1. CHEMICAL METERING PUMP FEED LINES: SECURE TO WALL AND/OR OVERHEAD WITH CLIPS OR DEVICES THAT DO NOT CRIMP, DISTORT OR ALLOW HIGH AND LOW AREAS IN RUNS, PLACE CHECK VALVE AND SHUT OFF VALVE BEFORE LINES ENTER POOL RETURN PIPING.
2. CONTRACTOR PROVIDE A LABELED SWITCH OUTSIDE OF CHLORINATION ROOM WHICH WILL TURN ON THE EXHAUST FAN & LIGHT OF THE CHLORINATION ROOM. LABEL "TURN ON BEFORE ENTERING".
3. ALL COMPONENTS OF THE EXISTING AUTOMATED CHEMICAL CONTROL SYSTEM SHALL BE RELOCATED AS REQUIRED AND RECONNECTED TO THE NEW PIPING.
4. CONTRACTOR SHALL VERIFY PROPER OPERATION OF THE AUTOMATED CHEMICAL CONTROL SYSTEM.
5. THE CHEMICAL CONTROL MONITOR SHALL SAMPLE WATER AFTER FILTERS AND BEFORE ANY CHEMICAL INJECTION, AND RETURN TO SUCTION SIDE OF PUMP.

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SHEET 43 OF 65

DRAWN  
A. C. ROQUE

CHECKED  
WNR

DATE  
MAY 6, 1987

SCALE  
NONE

JOB NO.  
86.113

SHEET  
EQUIPMENT  
SCHEDULE &  
GENERAL NOTES

OF SP/A-4 SHEETS

PLAN NO. P - 0532

REVISIONS	BY
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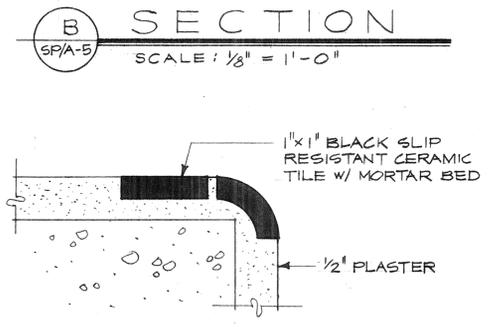
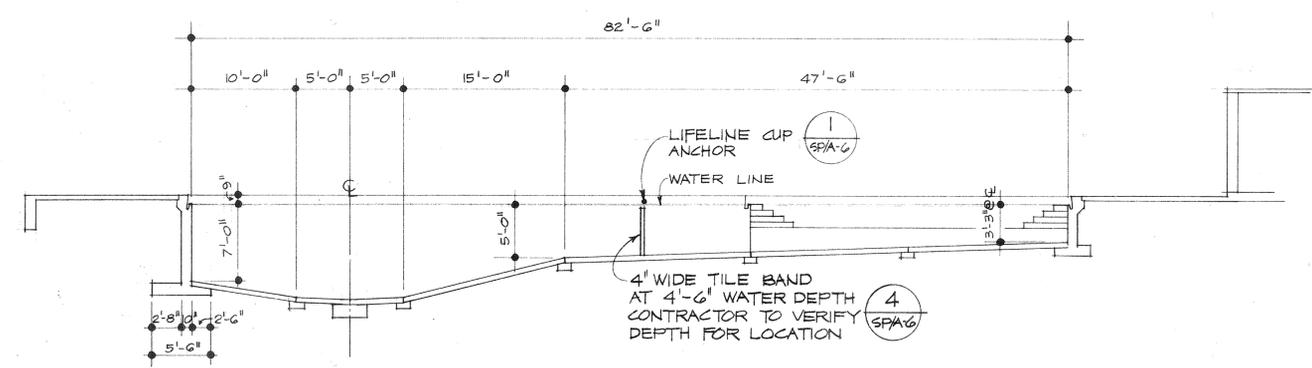
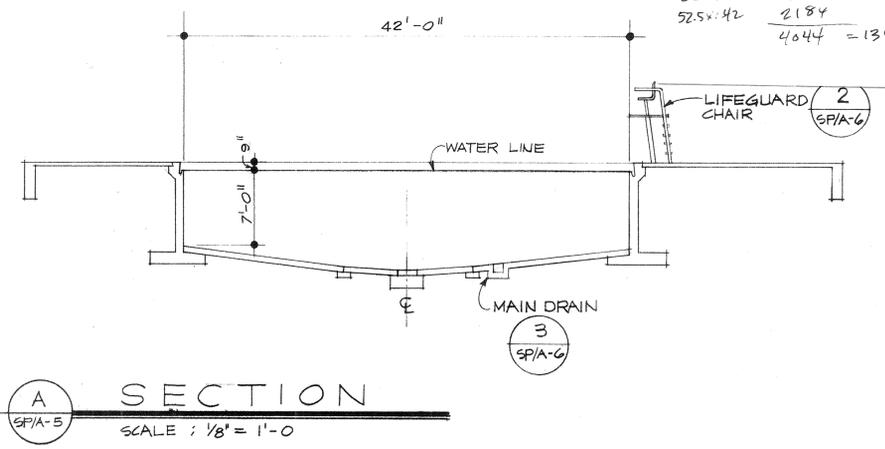
SHEET 44 OF 65

DRAWN	A. C. ROQUE
CHECKED	WNR
DATE	MAY 6, 1987
SCALE	AS SHOWN
JOB NO.	86.113
SHEET	POOL & DECK PLAN & SECTIONS
SP/A-5	SHEETS

PLAN NO. P-0532

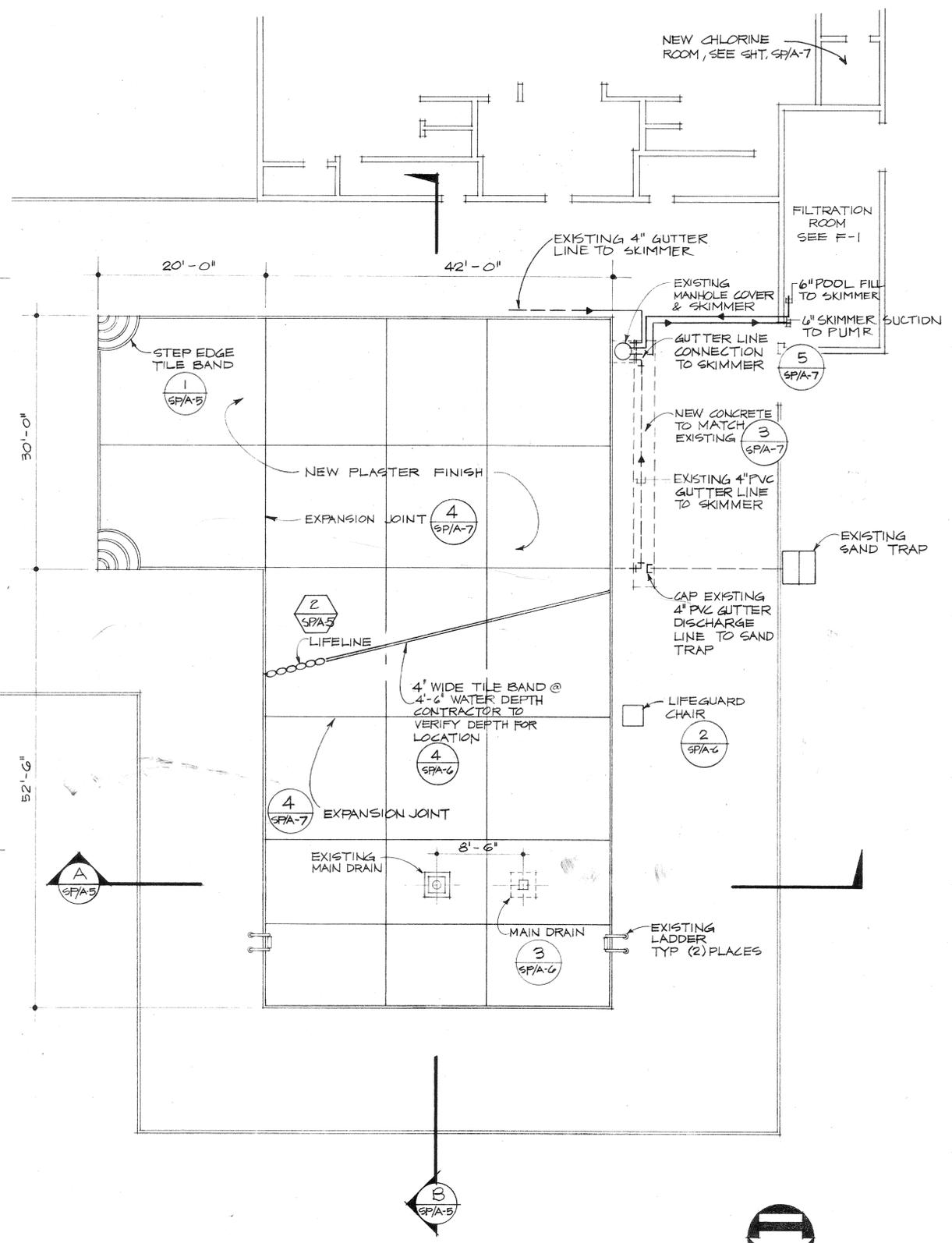
4065 SF X .333 FT = 1355 CU. FT.  
 fins 7.48 gals/c.F. = 10,135 Gals

62x30 = 1,860  
 52.5x42 = 2,184  
 4044 = 1348 x 7.48 = 10,083



**POOL STATISTICS**

<b>DIMENSIONS</b>	
OVERALL LENGTH	82'-6"
OVERALL WIDTH	42'
PERIMETER	289'
SURFACE AREA	4,065 SQ FT
DEPTHS	3'-6", 5'-0", 8'-0"
VOLUME	21,400 CU FT
TOTAL GALLONS	160,000 GAL
BATHING LOAD - 1/20 SQ FT	203
<b>LIGHTING</b>	
NUMBER OF LIGHTS	3
WATTAGE PER LIGHT	400 W
WATTAGE PER SQ FT	0.3 W
WATTAGE TOTAL	1,200 W
<b>FILTERS</b>	
FILTER AREA	27 SQ FT
FILTER FLOW RATE	450 GPM
TURNOVER	UNDER 6 HRS
FILTER MEDIA	HI-RATE SAND
BACKWASH RATE	225 GPM
BACKWASH VALVE	AUTOMATIC
<b>PUMP</b>	
FILTER PUMP	450 GPM @ 80' OF HEAD 15 HP



**POOL & DECK PLAN**  
 SCALE : 1/8" = 1'-0"

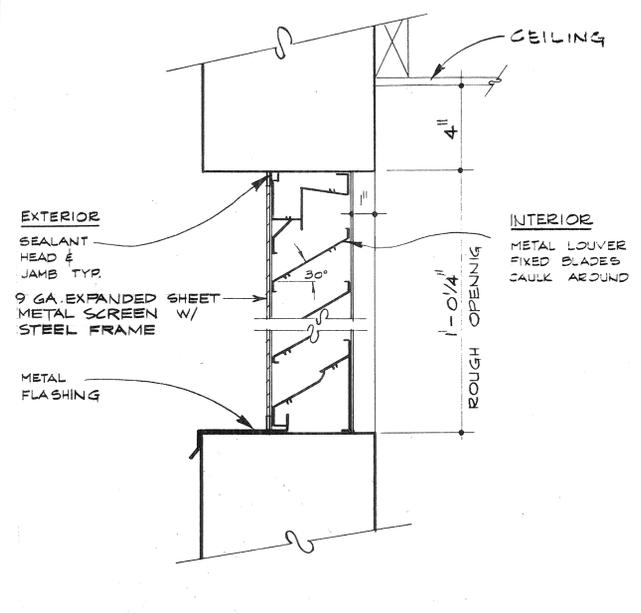
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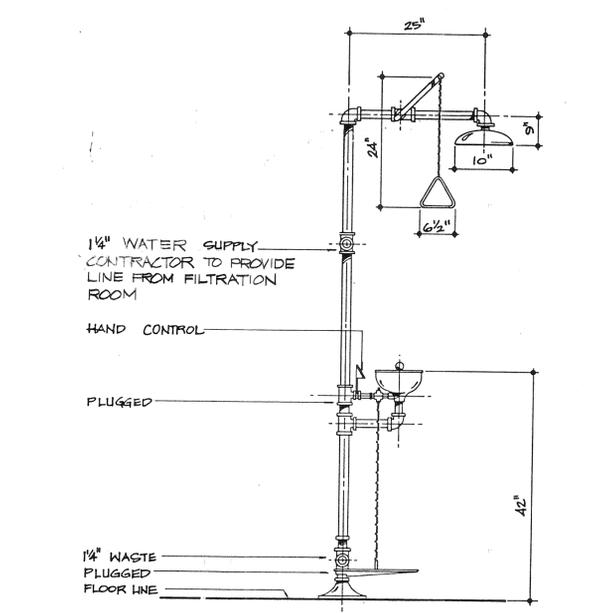
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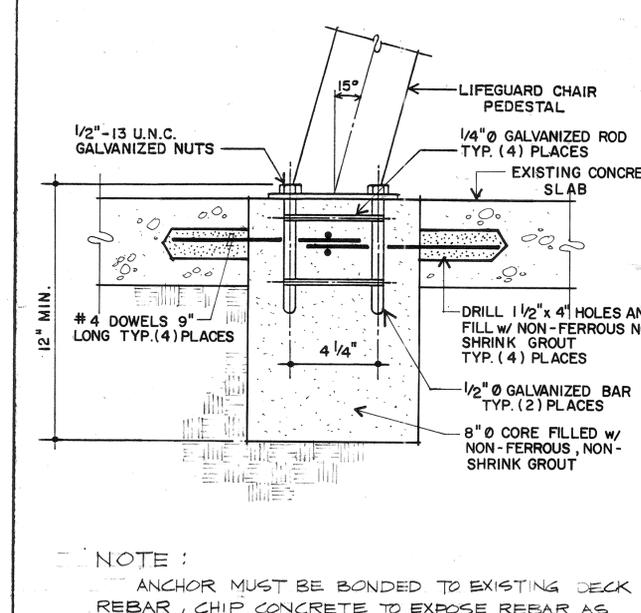
SHEET 45 OF 65  
 DRAWN  
**D. COLLOCA**  
 CHECKED  
**WNR**  
 DATE  
**MAY 6, 1987**  
 SCALE  
**AS SHOWN**  
 JOB NO.  
**86.113**  
 SHEET  
**DETAILS**  
 SP/A-6  
 OF SHEETS  
 PLAN NO. P-0532



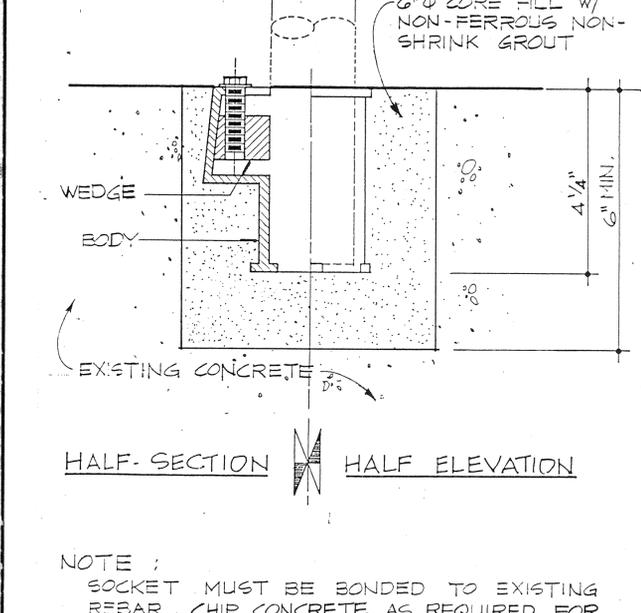
**8** **DETAIL @ AIR VENT**  
 SP/A-6  
 SCALE: 3" = 1'-0"



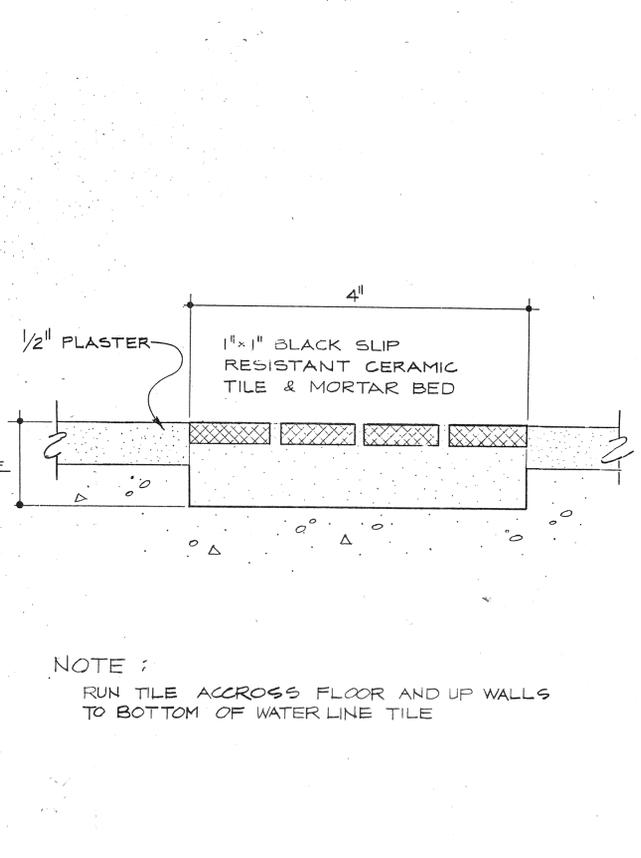
**7** **DETAIL @ EYEWASH & SHOWER**  
 SP/A-6  
 SCALE: 1" = 1'-0"



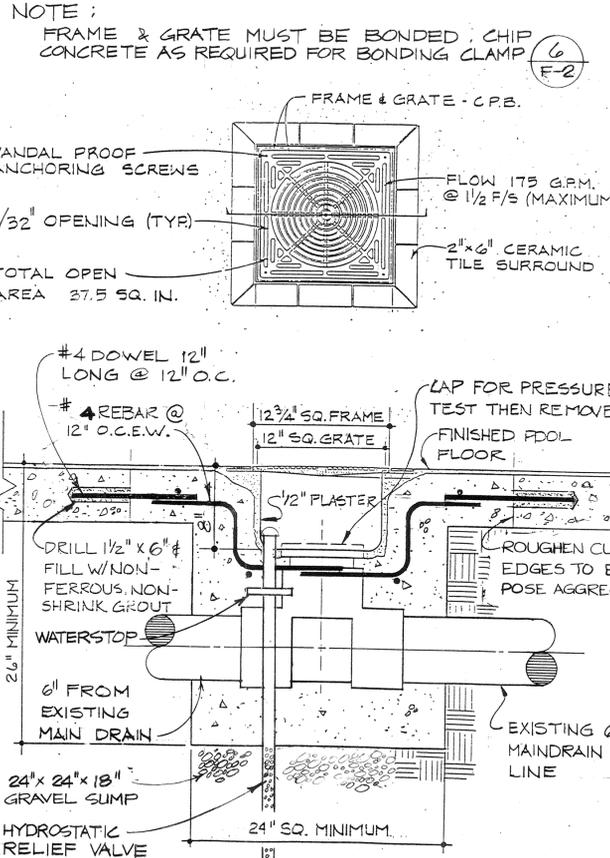
**6** **DETAIL @ LIFEGUARD CHAIR ANCHOR**  
 SP/A-6  
 SCALE: 1/2" = 1'-0"



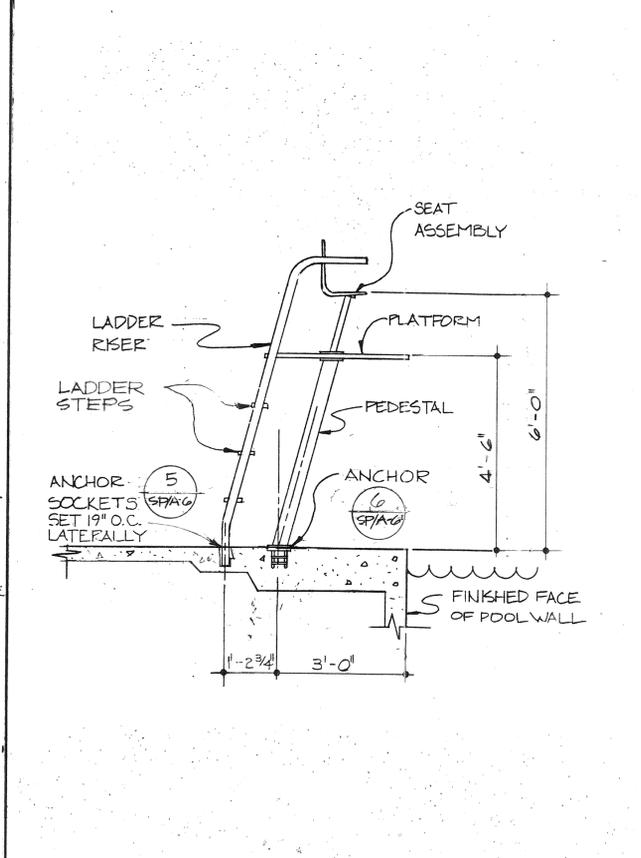
**5** **DETAIL @ ANCHOR SOCKET**  
 SP/A-6  
 SCALE: HALF SCALE



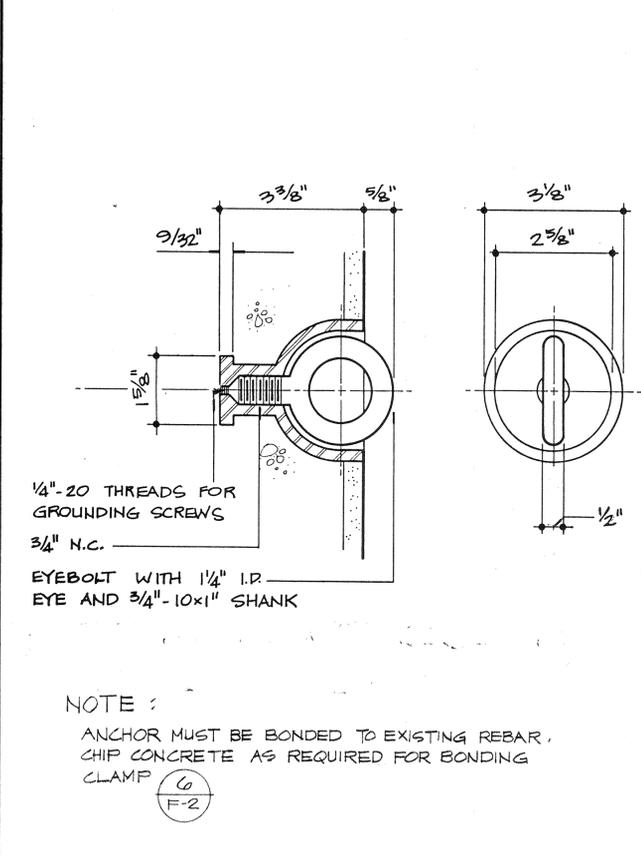
**4** **DETAIL @ 4'-6" TILE BAND**  
 SP/A-6  
 SCALE: FULL



**3** **DETAIL @ MAIN DRAIN**  
 SP/A-6  
 SCALE: 1/2" = 1'-0"



**2** **DETAIL @ LIFEGUARD CHAIR**  
 SP/A-6  
 SCALE: 1/2" = 1'-0"



**1** **DETAIL @ CUP ANCHOR**  
 SP/A-6  
 SCALE: HALF SCALE

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AS-BUILT	RB

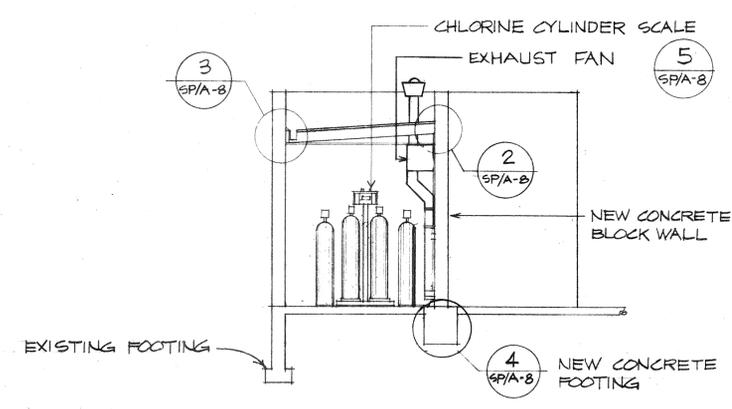
**Rowley International Inc**  
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 Second Floor  
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 (213) 377-6724

**SHAMEL POOL**  
 Prepared for  
 City of Riverside Park & Recreation Department  
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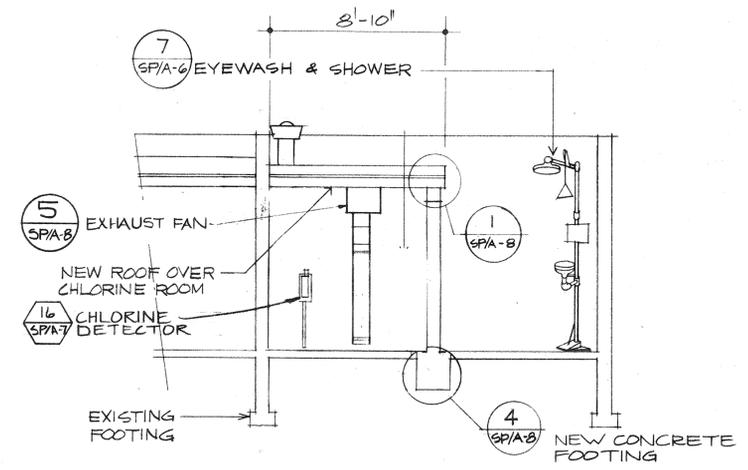
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SHEET 46 OF 65

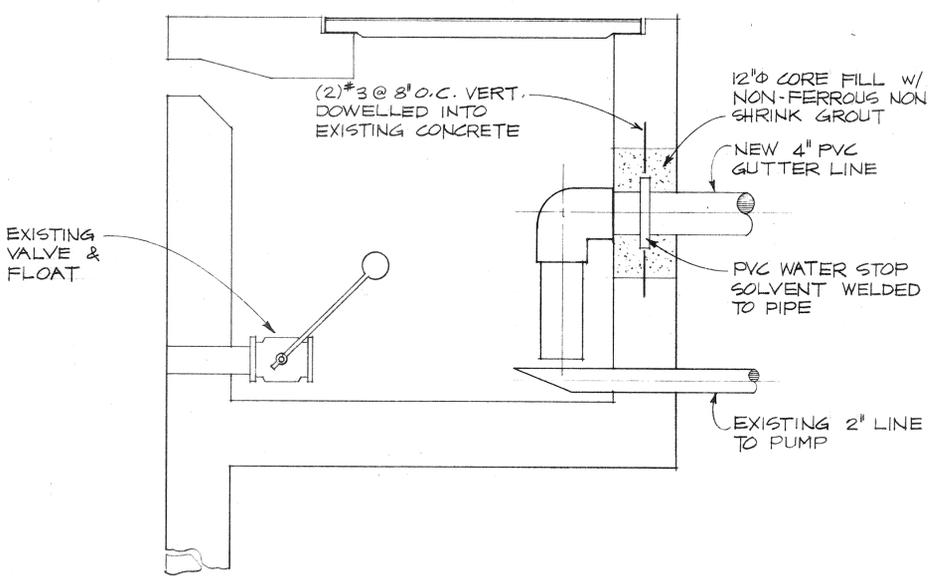
DRAWN	A. C. ROQUE
CHECKED	WNR
DATE	MAY 6, 1987
SCALE	AS SHOWN
JOB NO.	86.113
SHEET	
CHLORINE ROOM PLAN SECTIONS & ELEVATIONS	
OF SP/A-7 SHEETS	



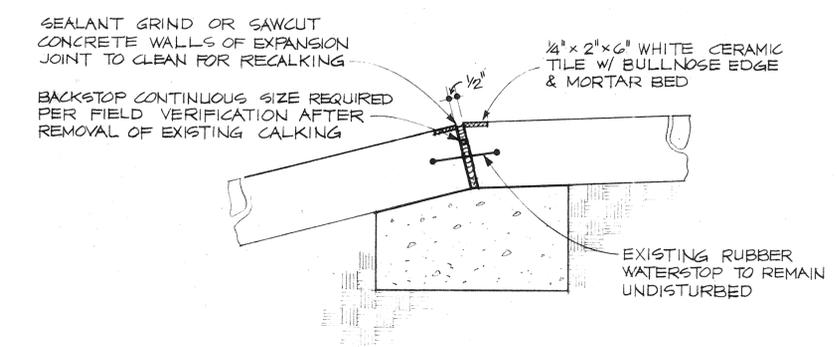
**2 ELEVATION**  
 SCALE: 1/4" = 1'-0"



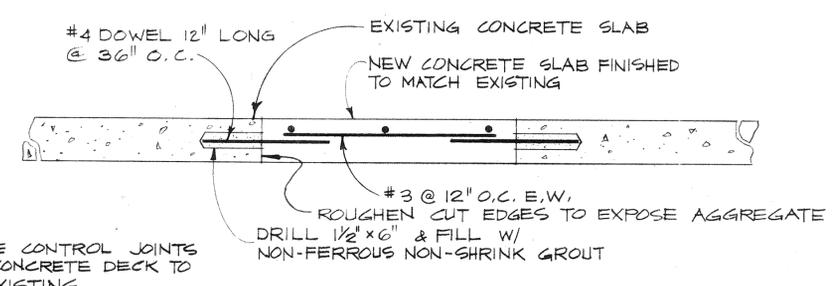
**1 ELEVATION**  
 SCALE: 1/4" = 1'-0"



**5 DETAIL @ SKIMMER**  
 SCALE: 1/2" = 1'-0"

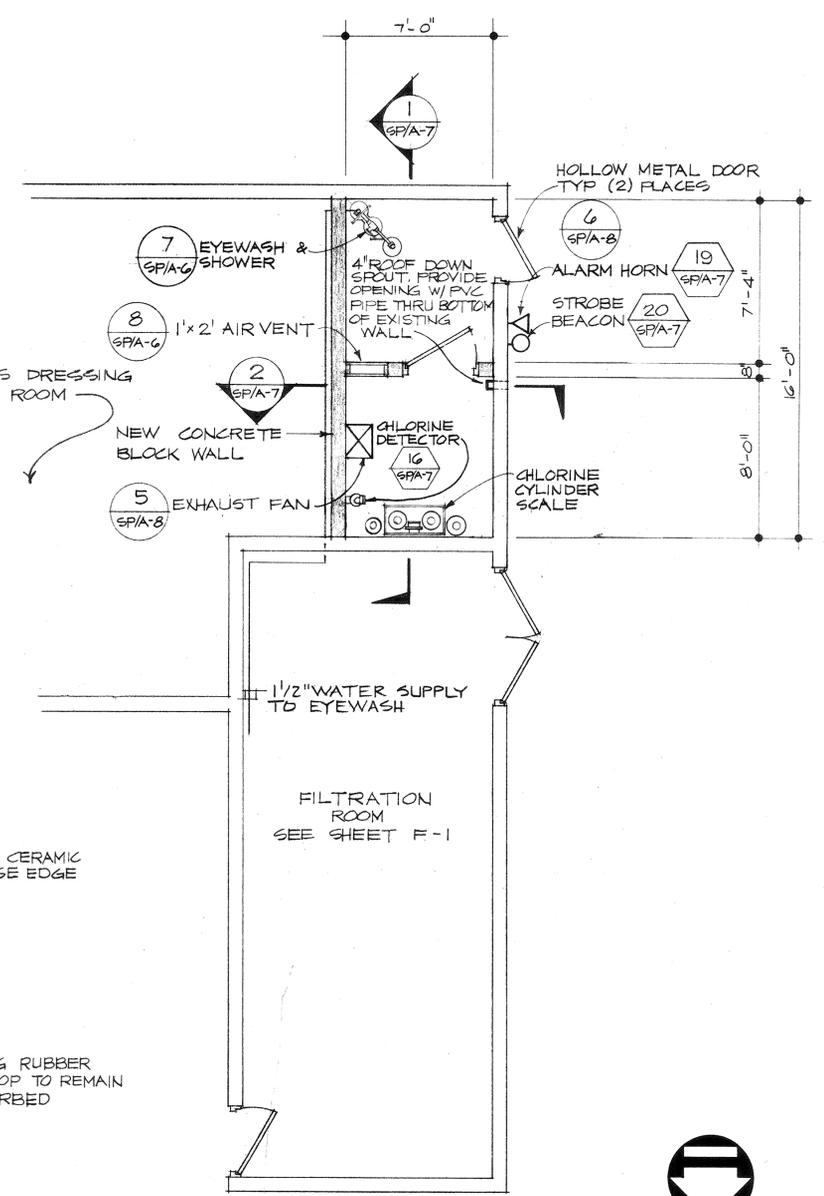


**4 DETAIL @ EXPANSION JOINT**  
 SCALE: 1/2" = 1'-0"



NOTE:  
 PROVIDE CONTROL JOINTS IN NEW CONCRETE DECK TO MATCH EXISTING

**3 DETAIL @ DECK TRENCH**  
 SCALE: 1/2" = 1'-0"



**CHLORINE ROOM PLAN**  
 SCALE: 1/4" = 1'-0"



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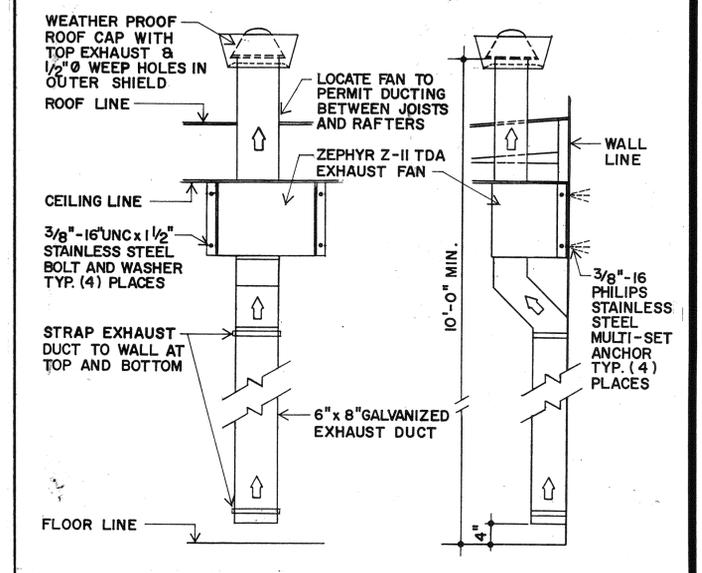
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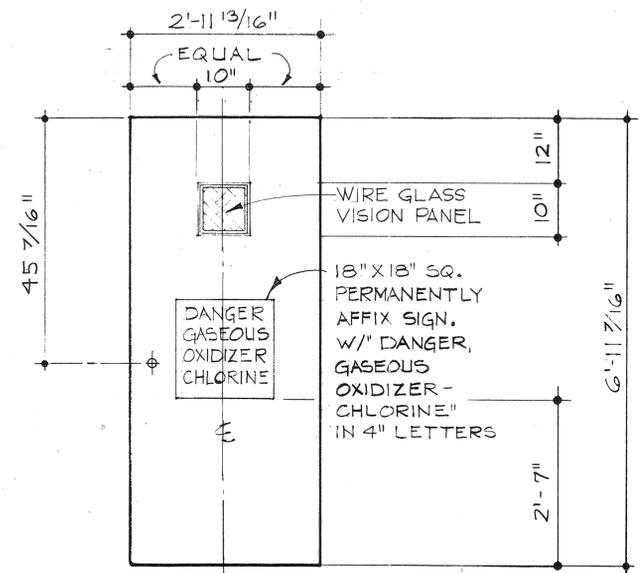
SHEET 47 OF 65

DRAWN  
**A. C. ROQUE**  
 CHECKED  
**WNR**  
 DATE  
**MAY 6, 1987**  
 SCALE  
**AS SHOWN**  
 JOB NO.  
**86.113**  
 SHEET  
**DETAILS**

SP/A-8 SHEETS  
 PLAN NO. P-0532

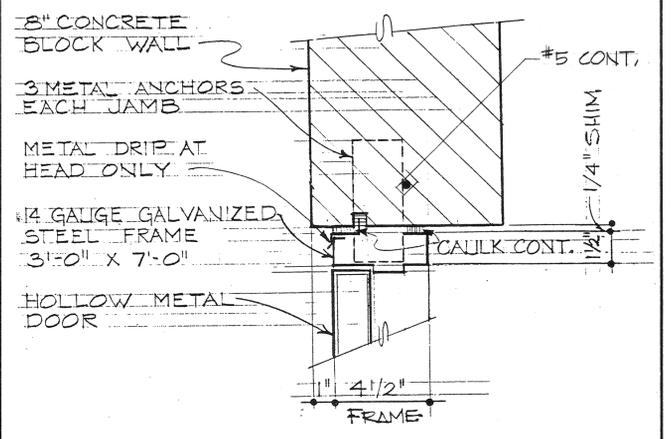


5 DETAIL @ EXHAUST FAN  
 SCALE: 3/4" = 1'-0"

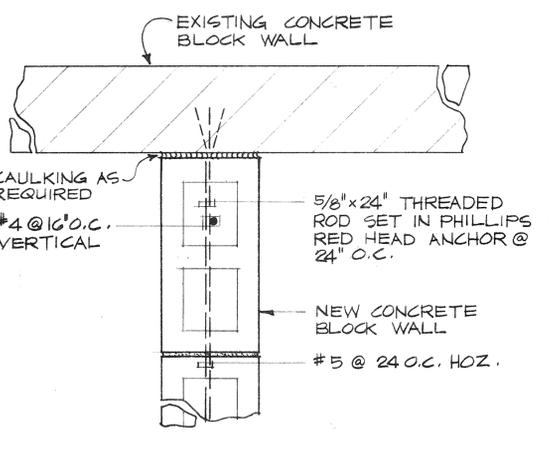


NOTE: PROVIDE FRAME & HARDWARE COMPLETE  
 7 SP/A-8

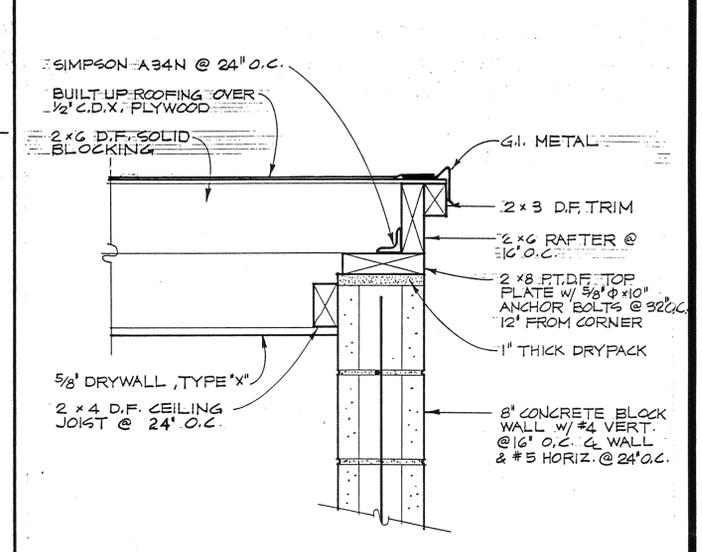
6 DETAIL @ HOLLOW METAL DOOR  
 SCALE: 3/4" = 1'-0"



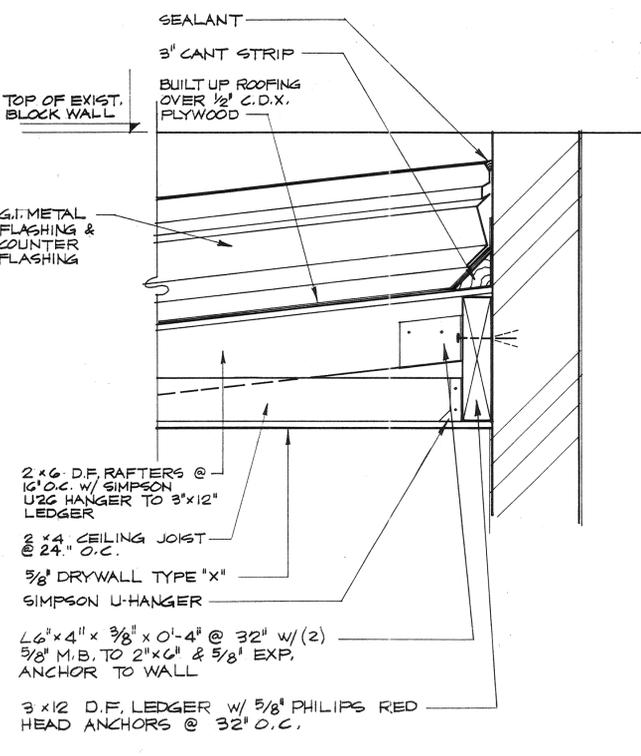
7 DETAIL @ DOOR JAMB  
 SCALE: 3" = 1'-0"



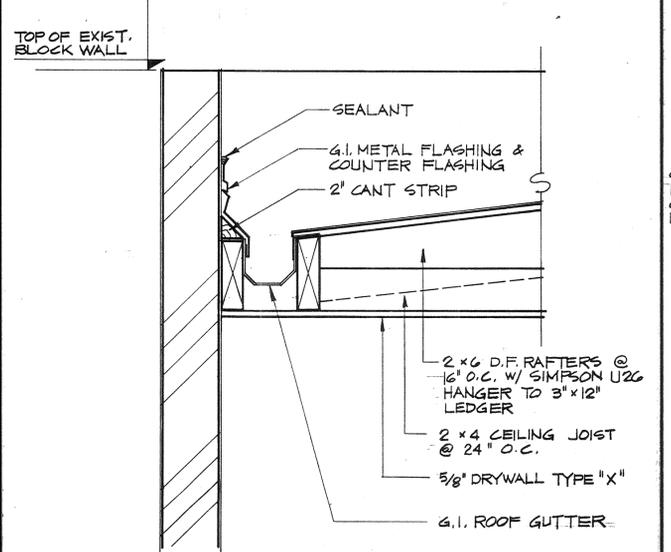
8 DETAIL @ WALL CONNECTION  
 SCALE: 1/2" = 1'-0"



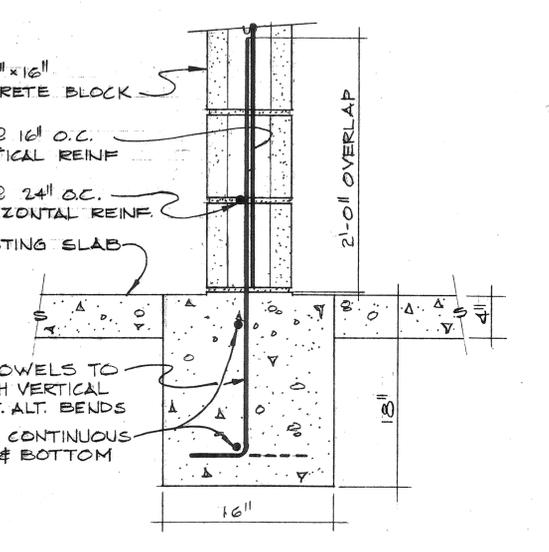
1 DETAIL @ RAKE  
 SCALE: 1/2" = 1'-0"



2 DETAIL @ LEDGER  
 SCALE: 1/2" = 1'-0"



3 DETAIL @ ROOF GUTTER  
 SCALE: 1/2" = 1'-0"



4 DETAIL @ NEW WALL  
 SCALE: 1/2" = 1'-0"

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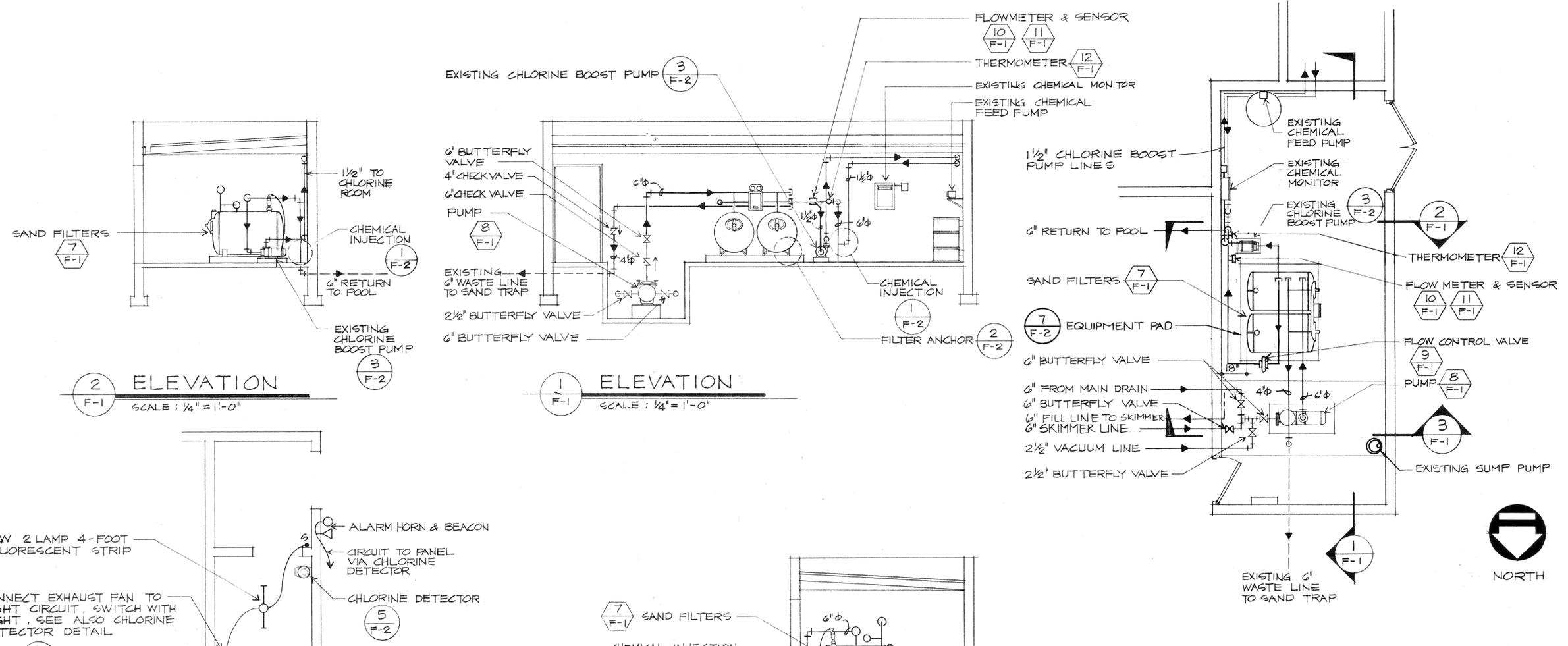
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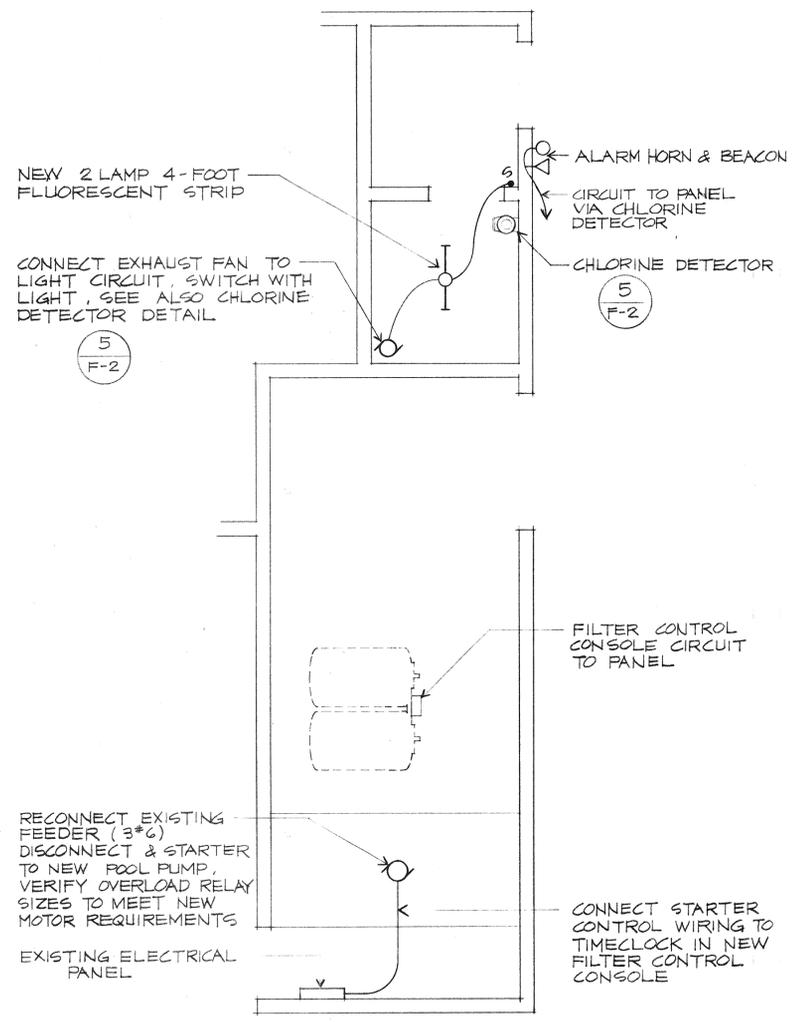
SHEET 48 OF 65

DRAWN	A. C. ROQUE
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SCALE	AS SHOWN
JOB NO.	86.113
SHEET	
FILTRATION ROOM PLAN and ELEVATIONS	
OF F-1 SHEETS	

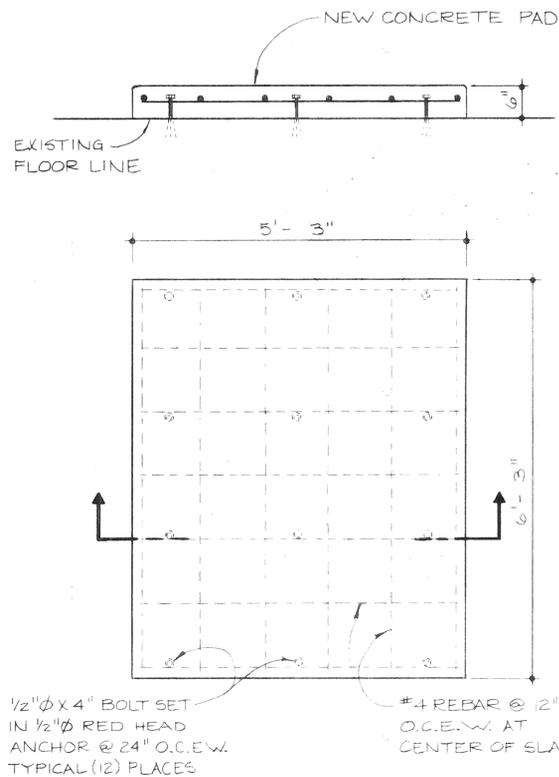
PLAN NO. P-0532



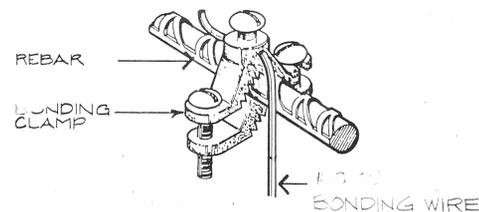
**FILTRATION ROOM PLAN**  
 SCALE: 1/4" = 1'-0"



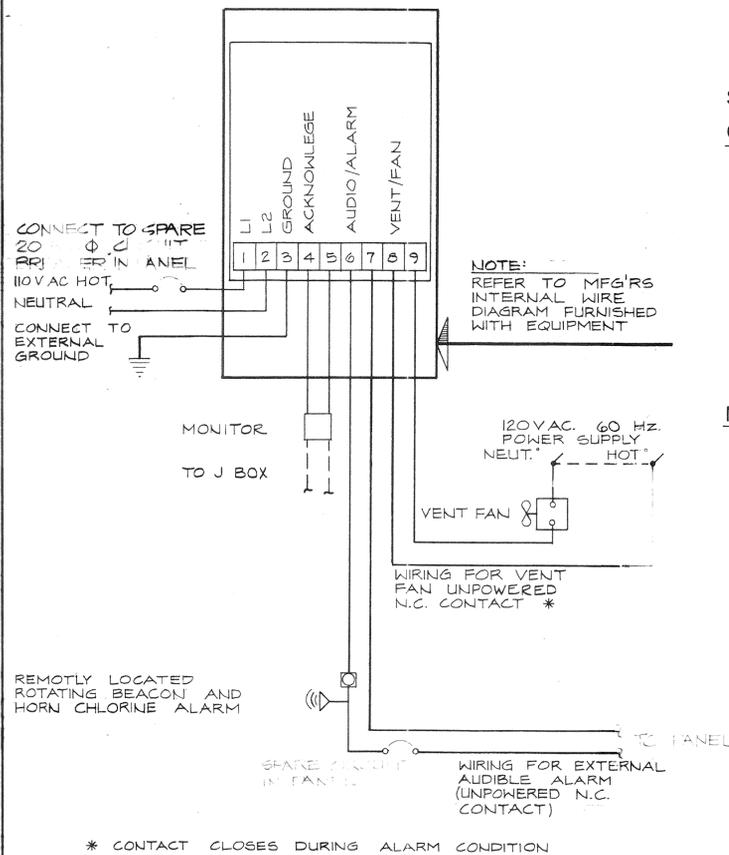
**ELECTRICAL PLAN**  
 SCALE: 1/4" = 1'-0"



7 DETAIL @ EQUIPMENT PAD  
F-2 SCALE: 3/4" = 1'-0"



6 DETAIL @ REBAR BONDING CLAMP  
F-2 SCALE: NONE



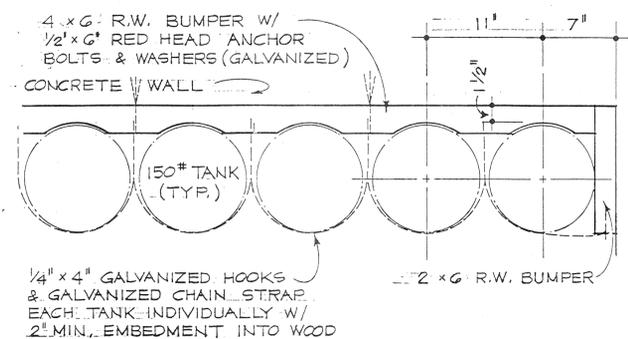
5 DETAIL @ CHLORINE DETECTOR  
F-2 SCALE: NONE

SEQUENCE OF OPERATIONS  
CHLORINE ALARM CONDITION

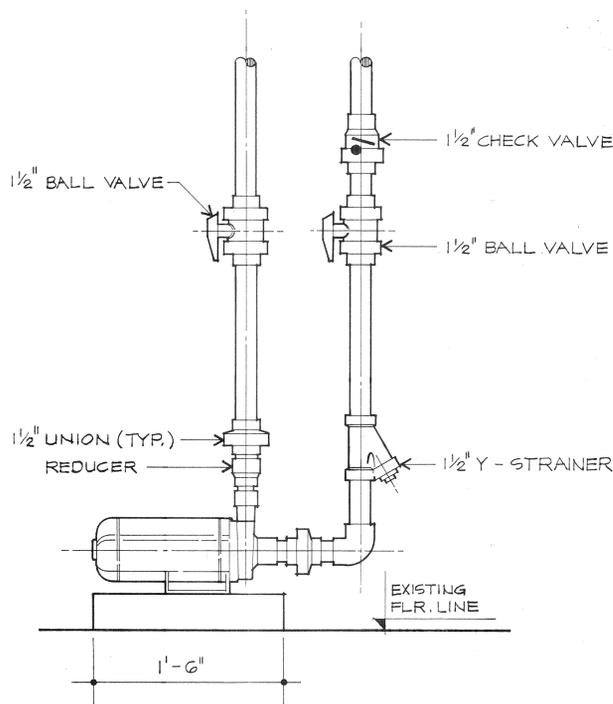
1. EXHAUST FAN, LIGHT, HORN AND BEACON LIGHT ARE INTERLOCKED IN "ON" POSITION TURN "OFF" WITH KEY SWITCH.
2. EXHAUST FAN INTERLOCKED WITH LIGHTS IN CHLORINE ROOM ANYTIME LIGHTS COME ON.
3. 110 V CIRCUIT FOR ACCESSORY ITEMS (HORN, BEACON, LIGHT(S)) TERMINALS 6 & 9 ACT AS SWITCHES ONLY.

NOTE:

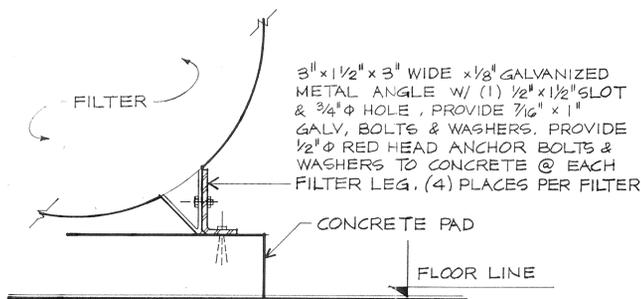
1. CHLORINE DETECTOR WALL MOUNTED AT 5'-0" ABOVE FINISH FLOOR EXTEND 1" Ø SK 80 P.V.C. PIPE TO A POINT 2" ABOVE THE FINISH FLOOR. SUPPORT BOTTOM OF 1" Ø PIPE WITH BRACKET TO WALL PIPE NOT SHOWN FOR CLARITY.
2. MONITOR IS NORMALLY OPEN PUSH BUTTON WITH INDICATOR LIGHT.



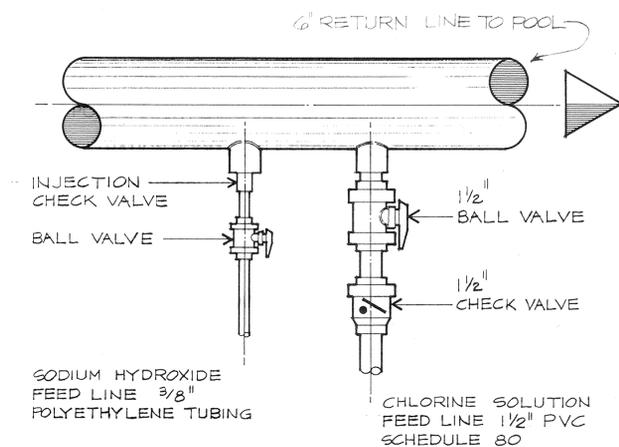
4 DETAIL @ CHLORINE CYLINDER ANCHOR  
F-2 SCALE: 1/2" = 1'-0"



3 DETAIL @ CHLORINE BOOST PUMP  
F-2 SCALE: NONE



2 DETAIL @ FILTER ANCHOR  
F-2 SCALE: NONE



1 DETAIL @ CHEMICAL INJECTION  
F-2 SCALE: NONE

REVISIONS	BY
AS-BUILT	RFS

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SHEET	
DETAILS	
OF	F-2 SHEETS

PLAN NO. P - 0532