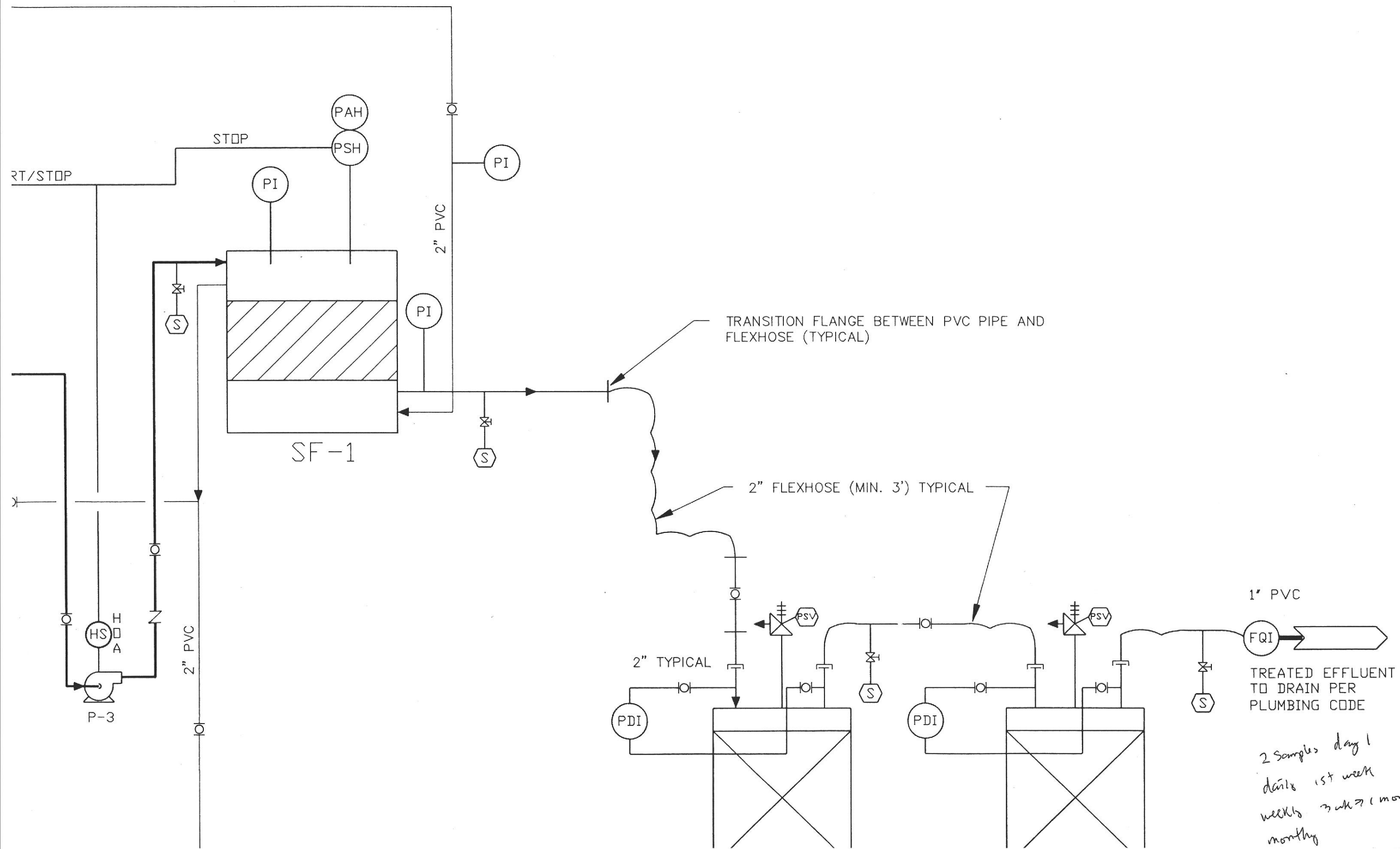
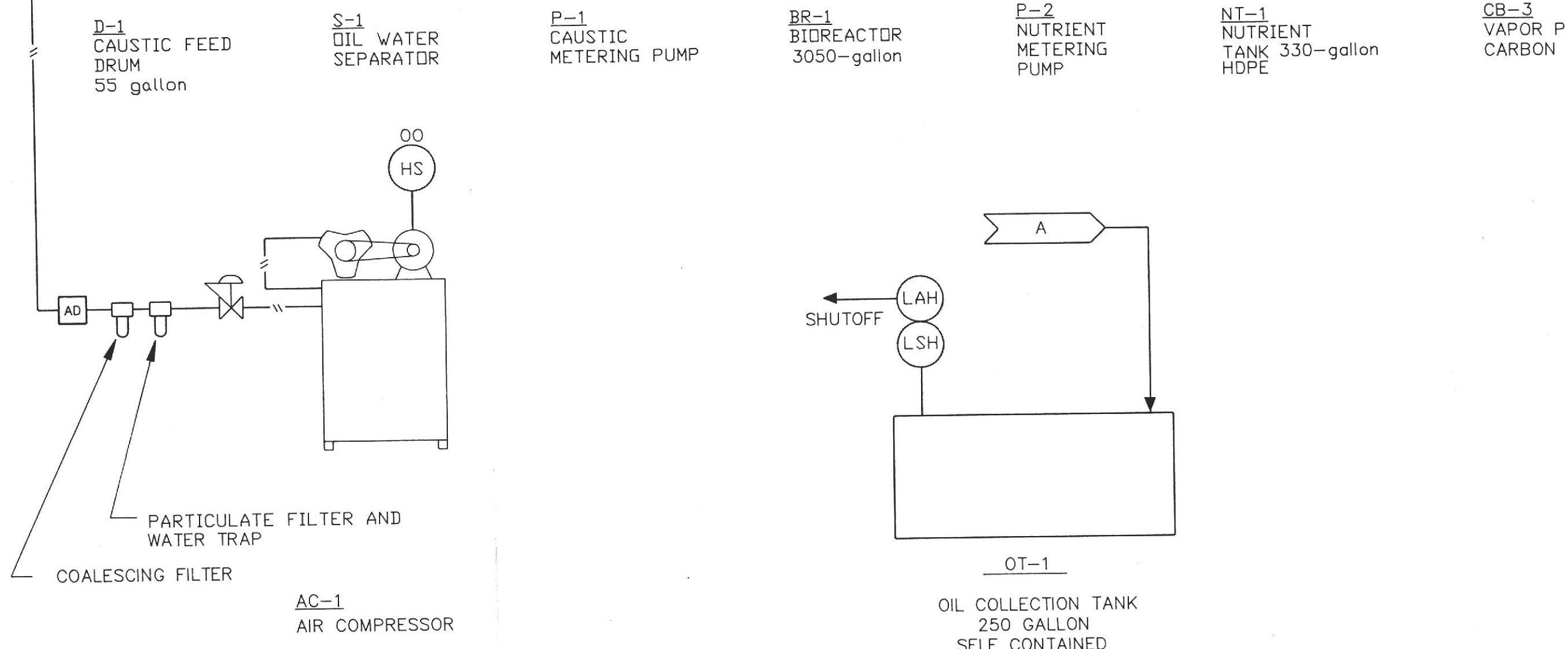


TYPICAL OF TWO
EXTRACTION WELLS
MW-1A & MW-4

2" PVC



2 Samples day 1
 daily 1st week
 weekly 2nd - 3rd week
 monthly



1=1
8-27-90
CB-PID

				SCALE: NONE
				DESIGNED BY: DRW
				DRAWN BY: BEH / A.H.B / ADJ
				CHECKED BY: DLM
				DATE: 8-21-90 <i>8-31-90</i>
				APPROVED BY:
				DATE:



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P-3
EFFLUENT
PUMP

SF-1
SAND
FILTER

SLUDGE COLLECTION DRUM

CB-1









CB-1,2
LIQUID PHASE
CARBON BEDS


















CB-2

3.0 *ppm*

LEGEND

FQI ----- FLOW TOTALIZER METER
 HS ----- HAND SWITCH
 LAH ----- LEVEL ALARM HIGH
 LAL ----- LEVEL ALARM LOW
 LG ----- LEVEL GAUGE
 LSHH ----- LEVEL SWITCH HIGH HIGH
 LSH ----- LEVEL SWITCH HIGH
 LSL ----- LEVEL SWITCH LOW
 PAH ----- PRESSURE ALARM HIGH
 PC ----- PUMP CONTROLLER
 PDI ----- PRESSURE DIFFERENTIAL INDICATOR
 pHC ----- PH CONTROLLER
 PI ----- PRESSURE INDICATOR
 GS ----- GALVANIZED STEEL
 PLC ----- PUMP LEVEL CONTROL
 PSH ----- PRESSURE SWITCH HIGH
 PSV ----- PRESSURE SAFETY VALVE

 ----- LOCAL MOUNTED INSTRUMENT
 ----- PANEL MOUNTED INSTRUMENT
 ----- LOGIC INTERLOCK
 ----- SPRING BALL CHECK VALVE
 ----- BALL VALVE
 ----- GLOBE VALVE
 ----- GATE VALVE
 ----- AIR FILTER

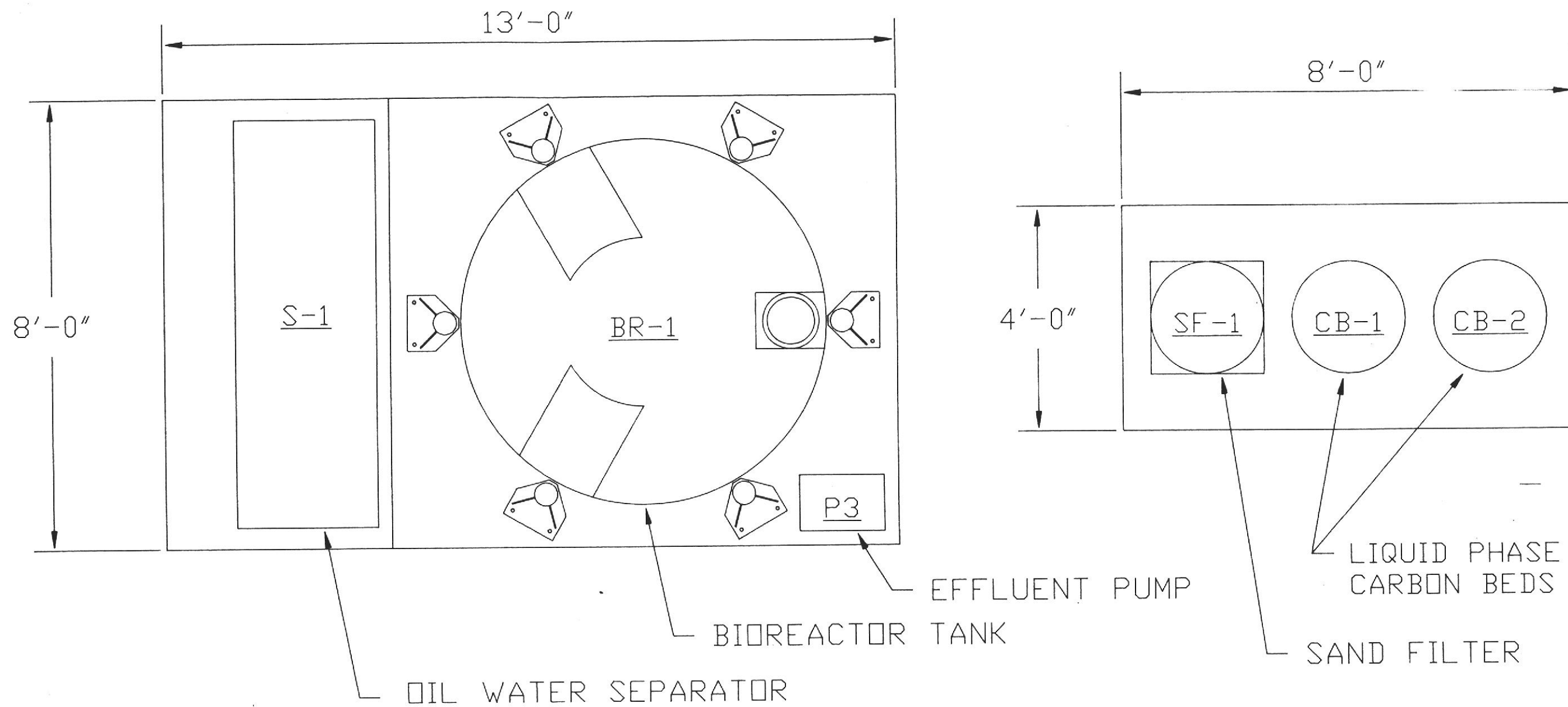
 ----- BALL CHECK VALVE
 ----- LABCOCK VALVE 1/4"
 ----- PRESSURE INDICATOR CONTROL VALVE
 ----- PRESSURE INDICATOR CONTROL VALVE
 ----- BACKFLOW PREVENTER
 ----- SOLENOID VALVE
 ----- HAND SWITCH; (SS) START-STOP; (OO) ON-OFF;
 (HOA) HAND-ON-OFF
 ----- PRESSURE SAFETY VALVE
 ----- SAMPLING POINT
 ----- PRESSURE REGULATOR
 ----- REDUCER
 ----- UNION
 ----- FLANGE
 ----- CAMLOCK
 ----- ROTOMETER
 ----- FLEXIBLE CONNECTION
 ----- AIR DRYER

Dynalco
 3-31-97
 Novato

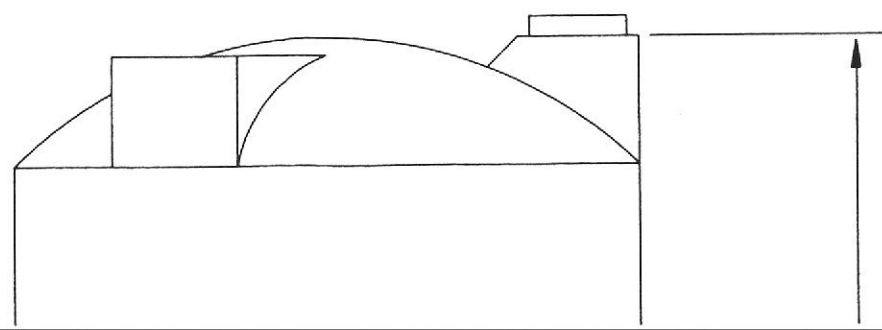
BLUE PRINT SERVICE COMPANY
 TYPICAL BLUE PRODUCTION FACILITY
 OAKLAND, CALIFORNIA

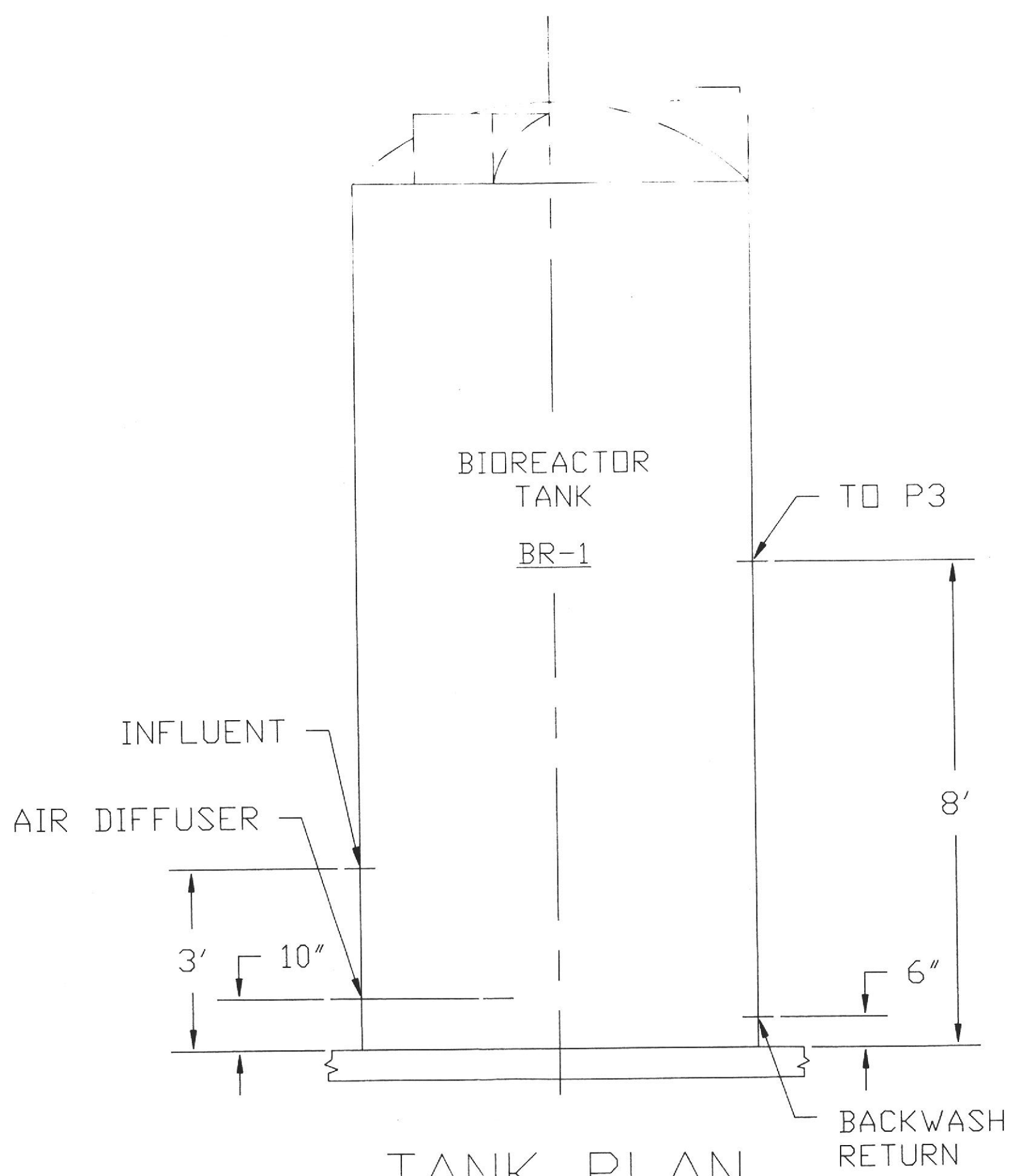
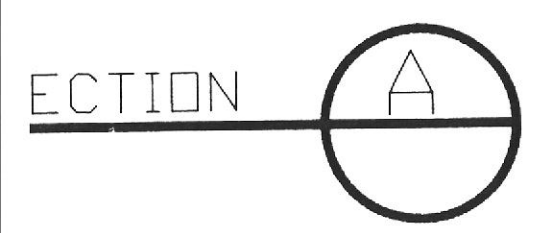
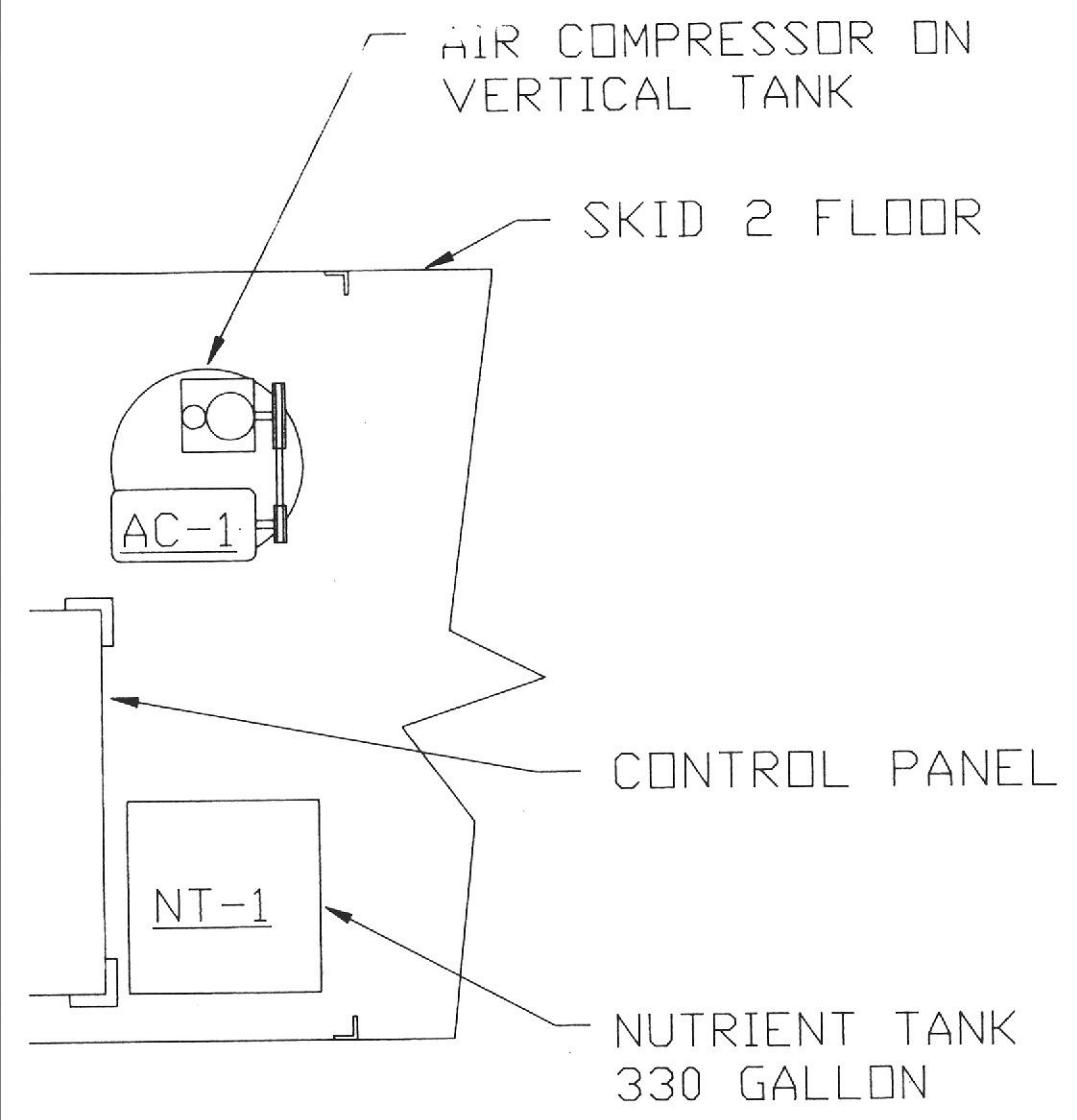
GROUNDWATER TREATMENT
 SYSTEM
 PIPING & INSTRUMENTATION
 DIAGRAM

JOB NO.:
 18106,009.04
 DRAWING NO.:
 PID-1

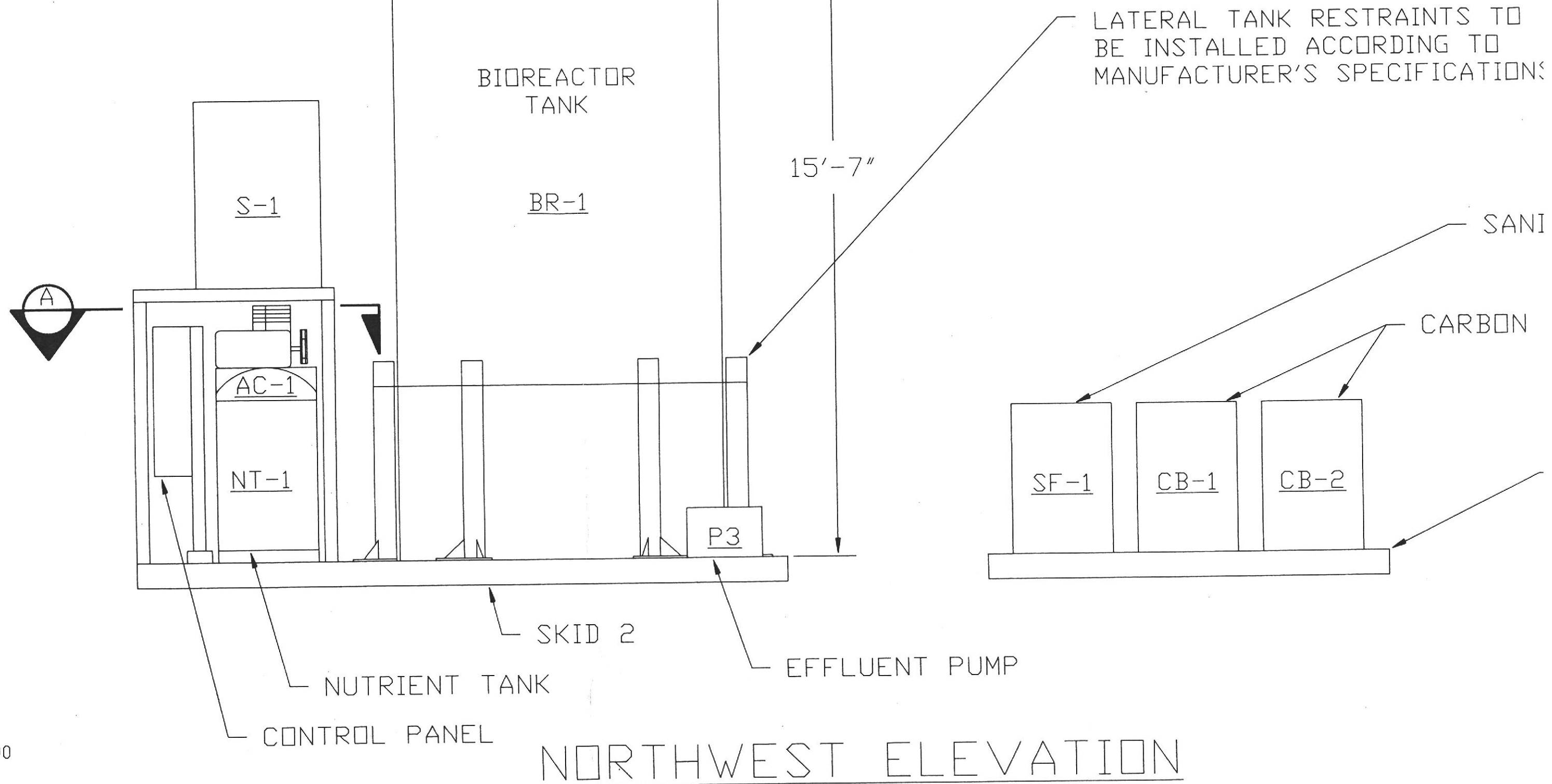


PLAN VIEW





TANK PLAN
NOZZLE ORIENTATION

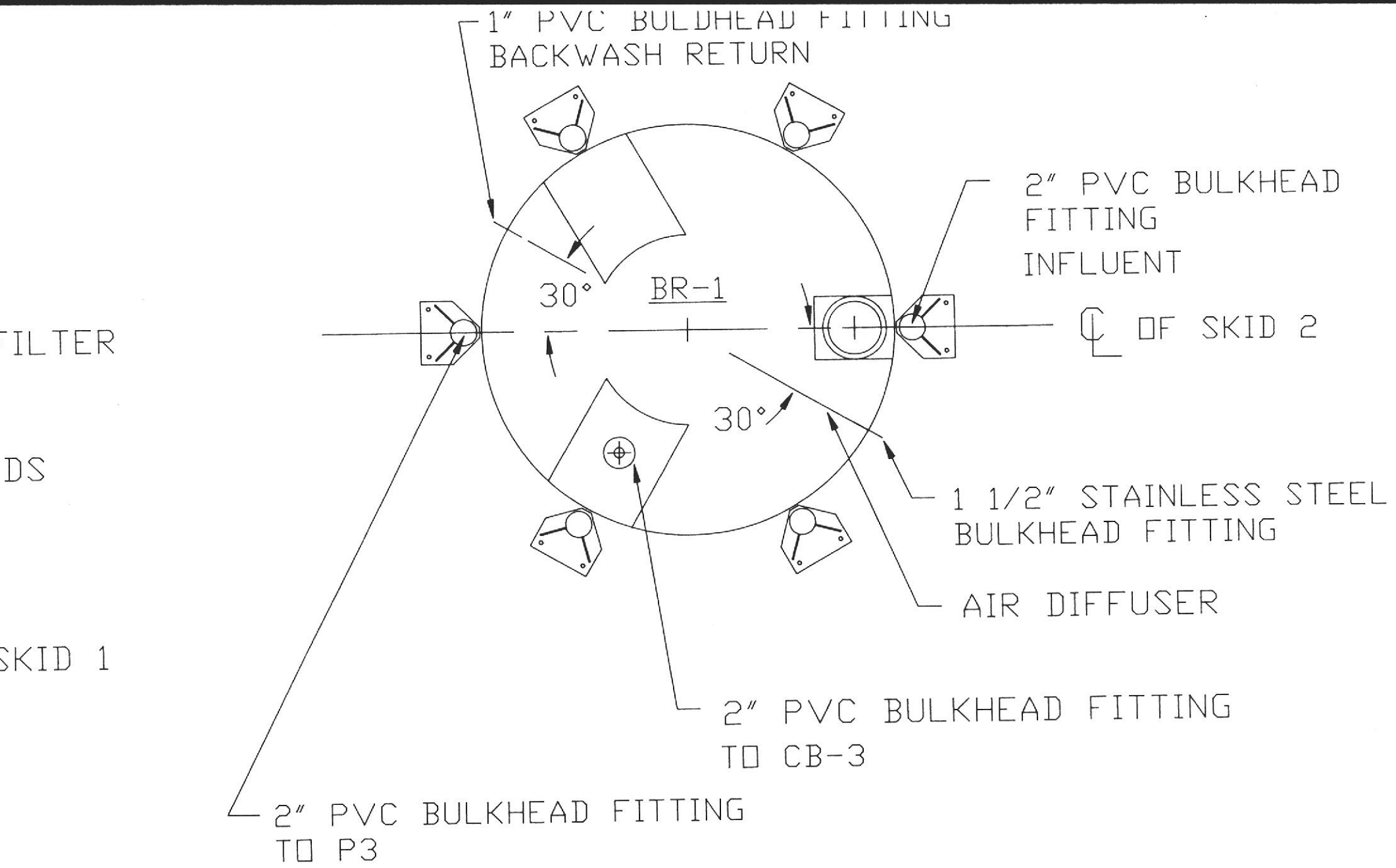


NO.	DATE	REVISIONS	BY

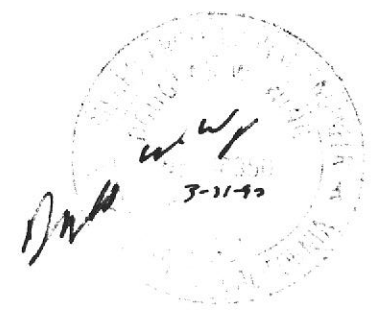
SCALE: 1/2" = 1'
 DESIGNED BY: DWW
 DRAWN BY: ADJ
 CHECKED BY: *DWW*
 DATE: 8-31-90
 APPROVED BY: _____
 DATE: _____



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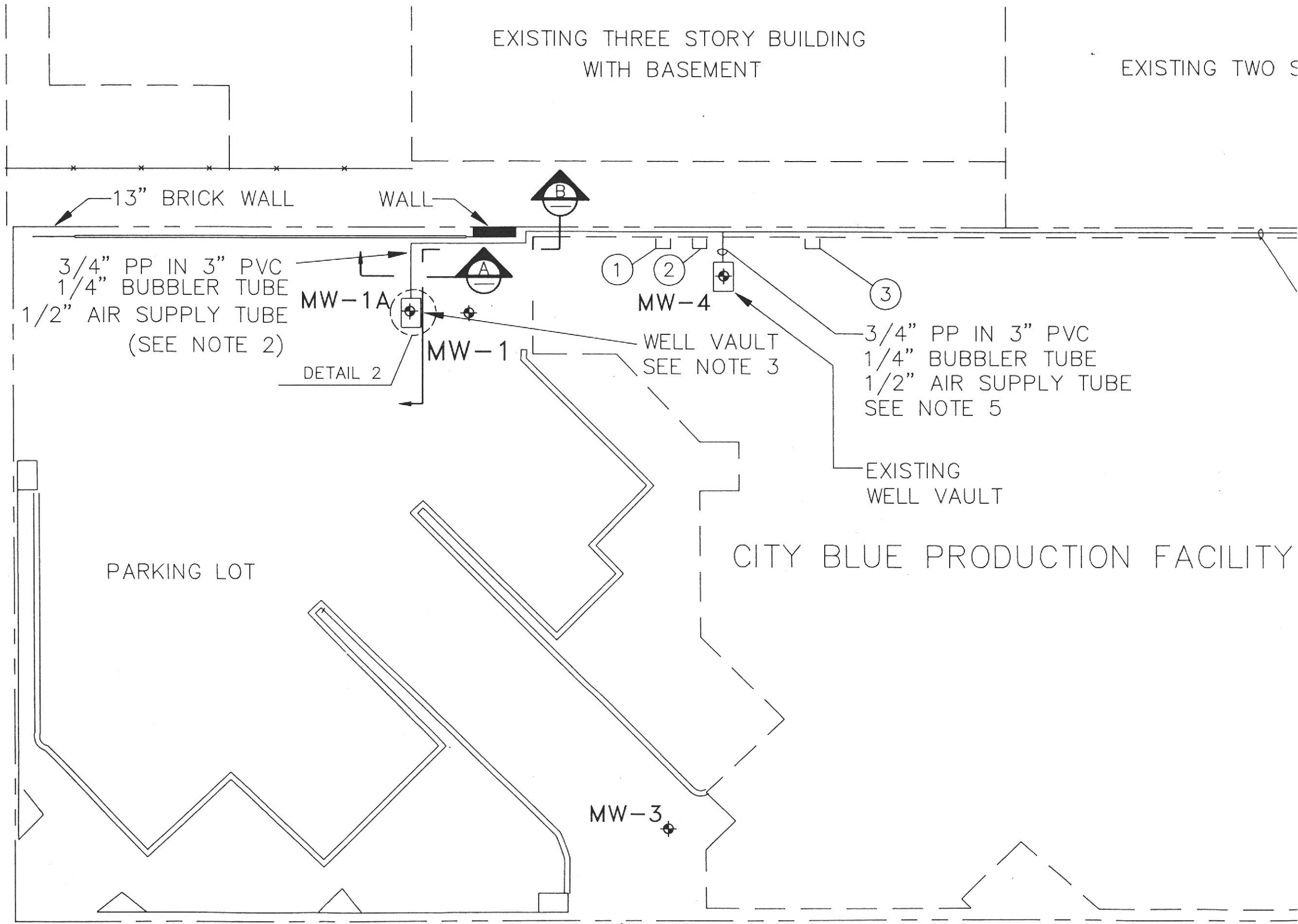
TANK ELEVATION
NOZZLE ELEVATIONS



BLUE PRINT SERVICE COMPANY CITY BLUE PRODUCTION FACILITY OKLAND, CALIFORNIA	GROUNDWATER TREATMENT SYSTEM MECHANICAL EQUIPMENT PLAN & SECTION	JOB NO.: 18106,009.04	
		DRAWING NO.: M-1	REV.:

JEFERSON STREET

CONCRETE SIDEWALK



EXISTING THREE STORY BUILDING WITH BASEMENT

EXISTING TWO S

13" BRICK WALL

WALL

3/4" PP IN 3" PVC
1/4" BUBBLER TUBE
1/2" AIR SUPPLY TUBE
(SEE NOTE 2)

MW-1A

DETAIL 2

MW-1

WELL VAULT
SEE NOTE 3

1

2

MW-4

3

3/4" PP IN 3" PVC
1/4" BUBBLER TUBE
1/2" AIR SUPPLY TUBE
SEE NOTE 5

EXISTING WELL VAULT

PARKING LOT

CITY BLUE PRODUCTION FACILITY

MW-3

Y BUILDING

CONCRETE BLOCK WALL

1/2% SLOPE

(2) FLEX HOSE FROM EACH WELL TO MANIFOLD
3/4" AIR SUPPLY TO AC-1.
IN 3" PVC MOUNTED TO WALL
AT APPROX 5' ABOVE GRADE

1% SLOPE

-1" PP IN 3" PVC
3/4" AIR SUPPLY TUBE
SEE NOTE 6

EXISTING AMMONIA TANK

A.C. PAVEMENT
ADD 2" A.C. LIFT
AND 6" CURB
AROUND PERIMETER

EXISTING GAS METER

SKID 2
(SEE NOTE 7 & 8)

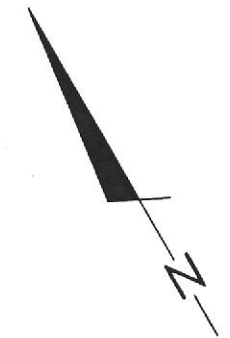
1" PVC EFFLUENT
LINE TO EXISTING
DRAIN IN UTILITY
ROOM. CONTRACTOR
TO VERIFY ROUTE
ROUTE THROUGH
EXISTING VENT

SKID 1

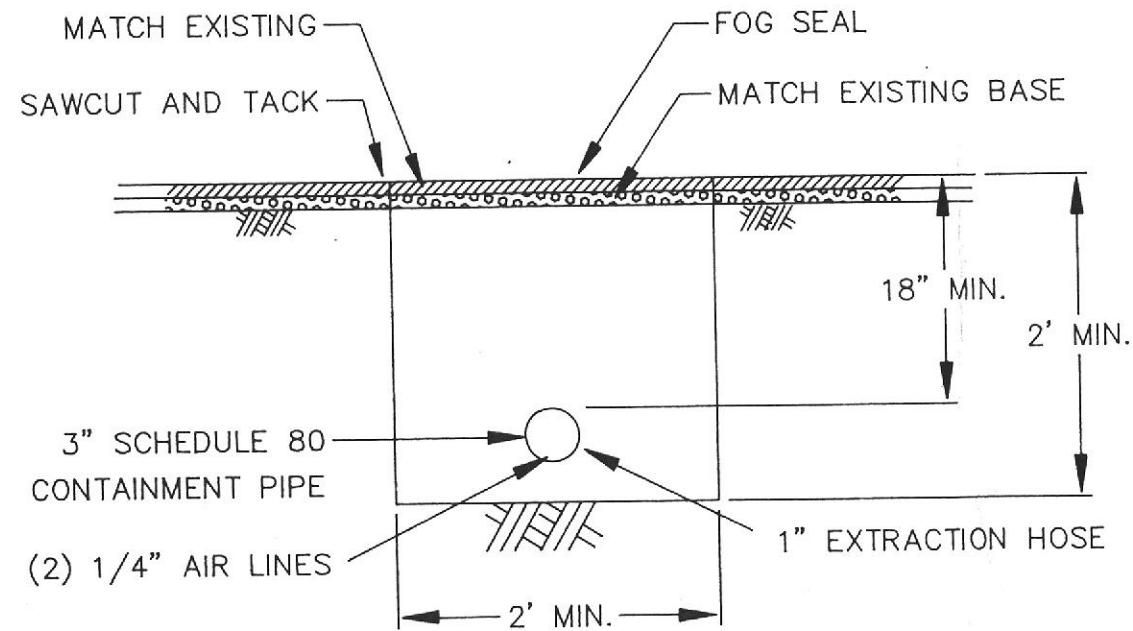
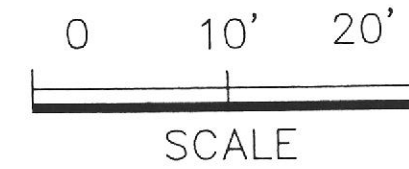
250 GALLON
RECOVERED PRODUCT
TANK (CONVAULT)

EXISTING DUMPSTER

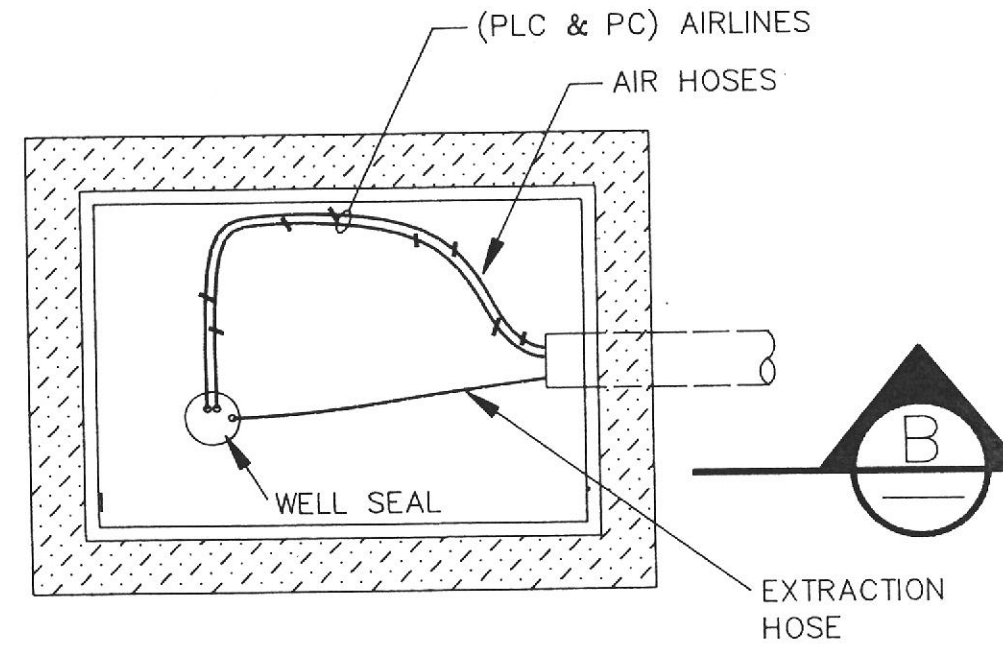
7' HIGH
CYCLONE FENCE
WITH GATE



SITE PLAN



SECTION A
(TYPICAL TRENCH)
NOT TO SCALE



DETAIL 2
GROUNDWATER EXTRACTION WELL HEAD VAULT
NOT TO SCALE

CB-C1
1"=10'
8-24-90

NO.	DATE	REVISIONS	BY

SCALE:
DESIGNED BY: DWW
DRAWN BY: EBH / A.H.B
CHECKED BY: DLM / DWW
DATE: 8-31-90
APPROVED BY:
DATE:



Harding Lawson Associates

Engineers and Geoscientists

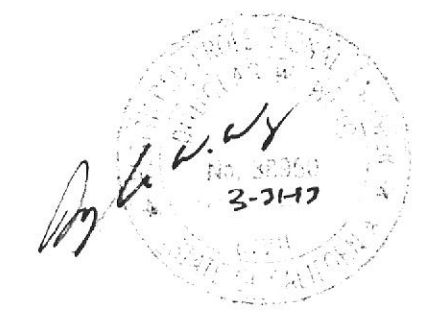
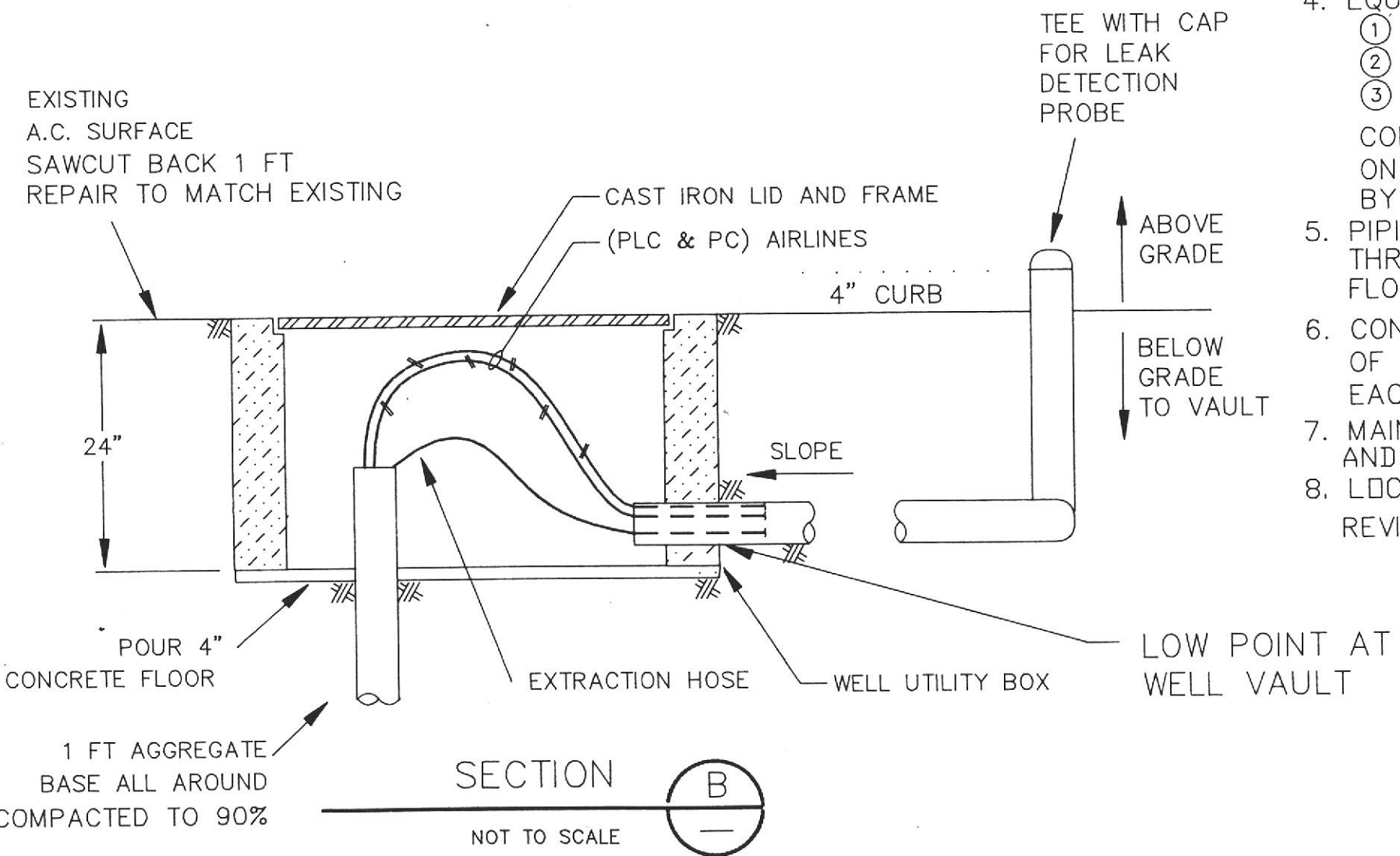
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BL
CI
OA

SEVENTEENTH STREET

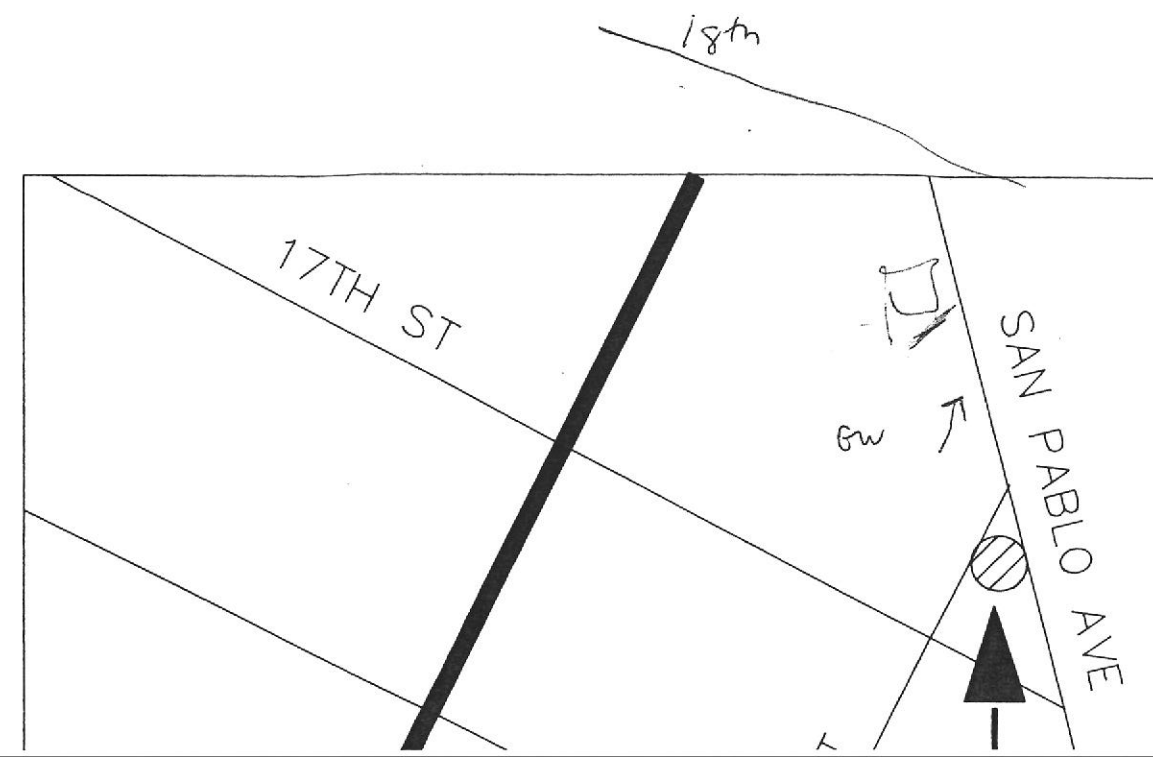
NOTES:

1. GROUNDWATER PIPING OUTSIDE & INSIDE SHALL BE DOUBLE CONTAINED.
2. PIPING FROM MW-1A, INCLUDING AIR TUBING, SHALL BE BELOW GRADE IN DRIVEWAY AREA. LOCATION OF PIPING TO BE CONFIRMED WITH ENGINEER PRIOR TO INSTALLATION.
3. WELL VAULT SHALL BE FORNI. SEE DETAIL 2.
4. EQUIPMENTS CALLOUTS
 - ① PUMP LEVEL CONTROLLER PLC (W-1A)
 - ② PUMP CONTROLLER PC (W-1A & W-4)
 - ③ PUMP LEVEL CONTROLLER PLC (W-4)
 CONTROLLERS SHALL BE MOUNTED ON INSIDE WALL AS DIRECTED BY ENGINEER.
5. PIPING AND TUBING SHALL BE RUN THROUGH A 3" PVC PIPE. SAWCUT FLOOR, RUN PIPE BELOW SLAB. REPAIR SLAB.
6. CONTAINMENT PIPE SHALL BE RUN ON TOP OF CONCRETE. EXPANSION LOOPS AT EACH END OF RUN.
7. MAINTAIN 12" SEPARATION BETWEEN BUILDING AND BASE OF EQUIPINT AND SKIDS.
8. LOCATION OF EQUIPMENT SKIDS SHALL BE REVIEWED BY ENGINEER BEFORE INSTALLATION.



PRINT SERVICE COMPANY BLUE PRODUCTION FACILITY AND, CALIFORNIA	GROUNDWATER TREATMENT SYSTEM SITE PLAN	JOB NO.: 18106,009.04	
		DRAWING NO.: C1	REV.:

CITY BLUE PRODUCTION GROUNDWATER TREATMENT

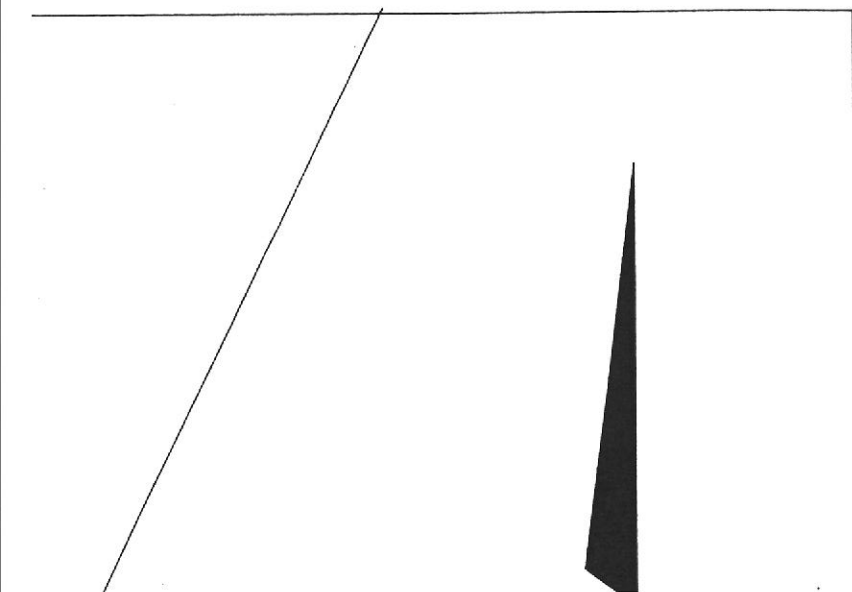


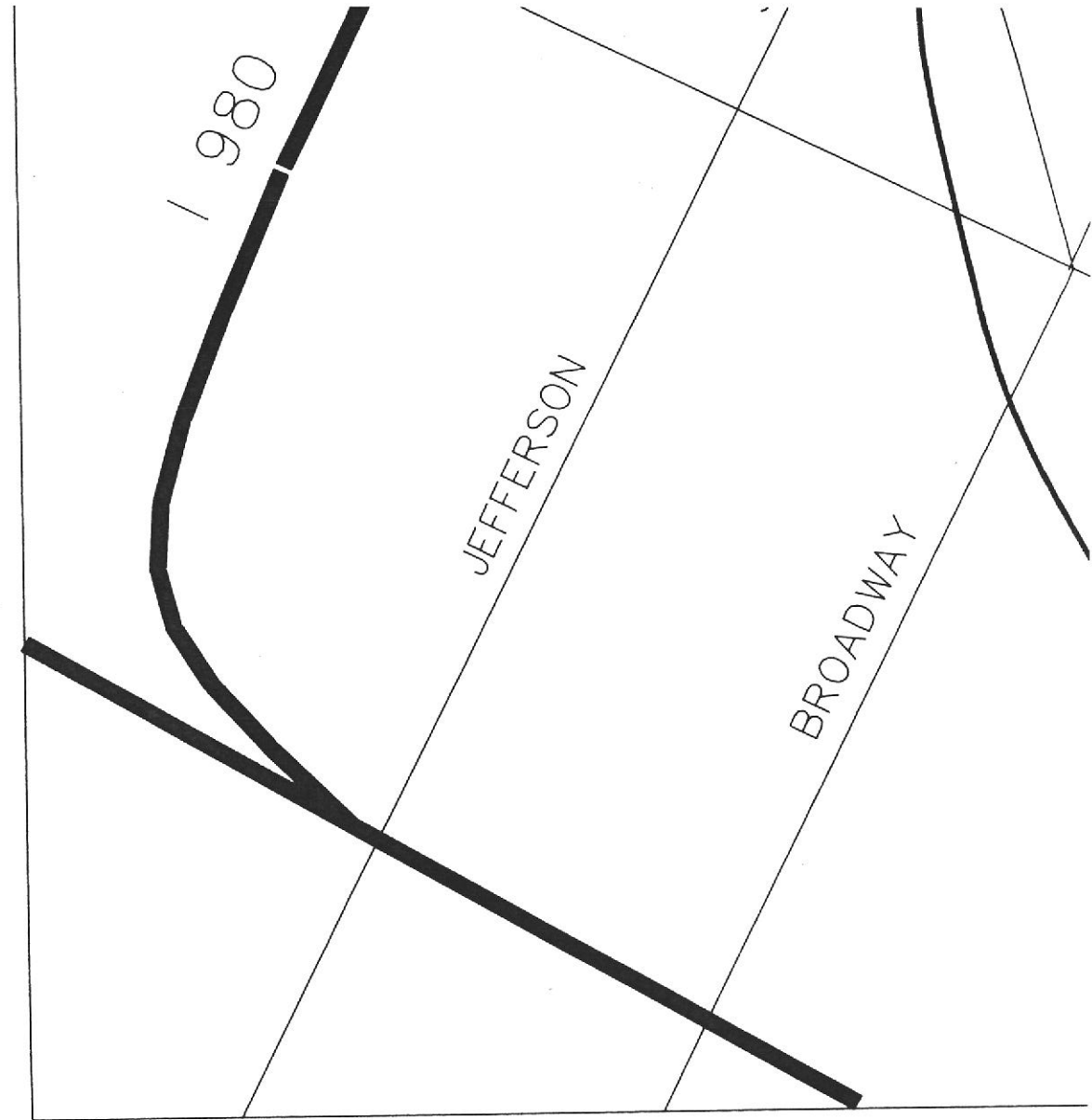
TION FACILITY TMENT SYSTEM

Engineer



Harding Lawson Associates
7655 Redwood Blvd.
Novato, California 94945
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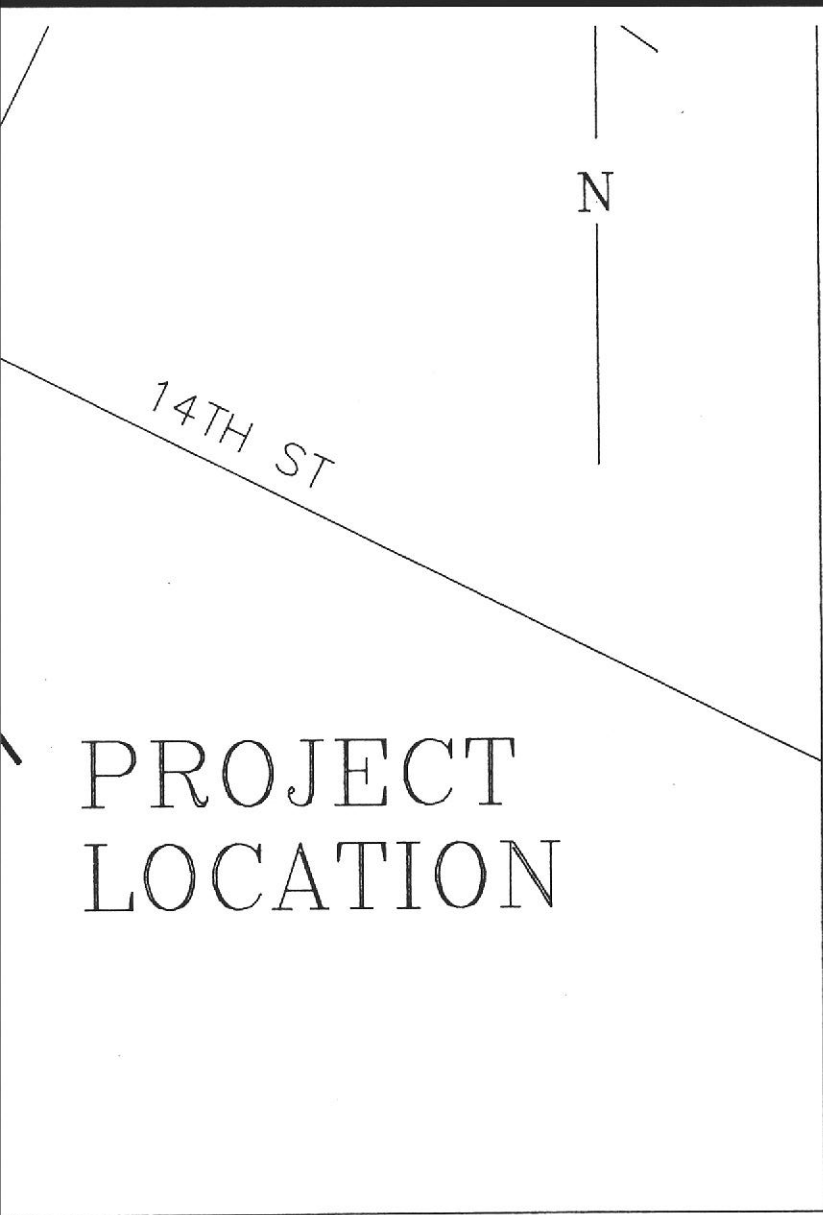
Vicinity
N. T. S

			SCALE: N.T.S.
			DESIGNED BY:
			DRAWN BY: EBH
			CHECKED BY: <i>EBH</i>
			DATE: 8-31-90
			APPROVED BY:



Harding Lawson Associates
Engineering and
Environmental Services

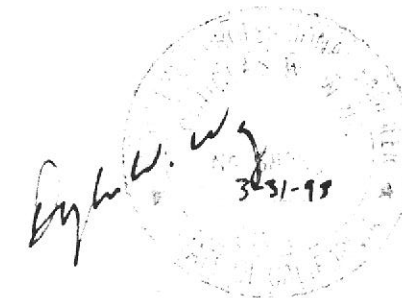
BLI
CIT
OA



Map

DRAWING LIST

- C-1 SITE PLAN
- M-1 MECHANICAL EQUIPMENT ELEVATIONS
- P&ID PIPING AND INSTRUMENT DIAGRAM



PRINT SERVICE COMPANY
 BLUE PRODUCTION FACILITY
 AND, CALIFORNIA

GROUNDWATER TREATMENT
 SYSTEM

JOB NO.: 18106,009.04

DRAWING NO.: