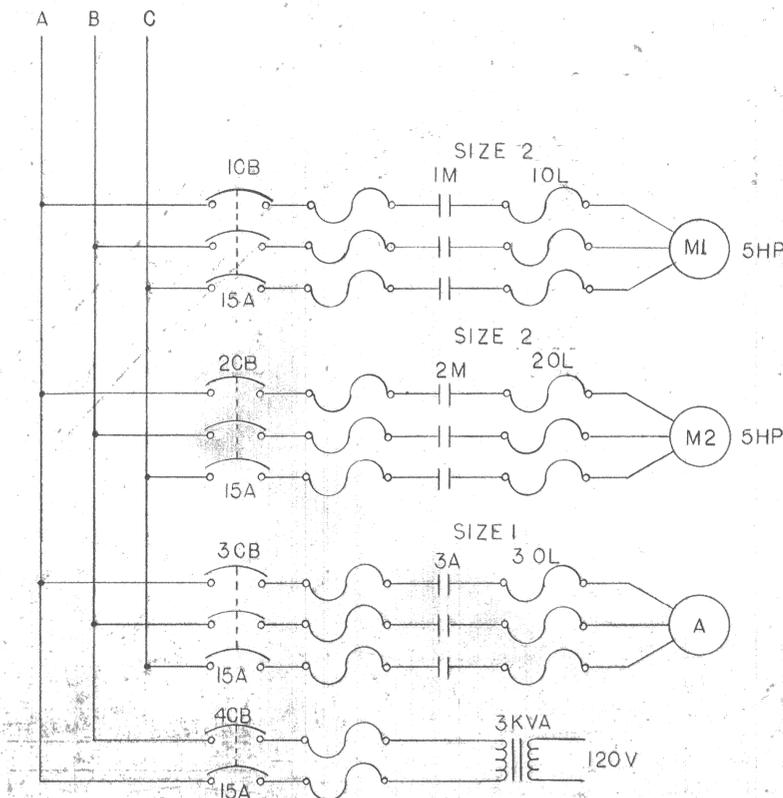
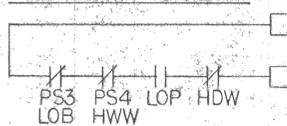


TO MAIN DISCONNECT
IN SERVICE PEDESTAL

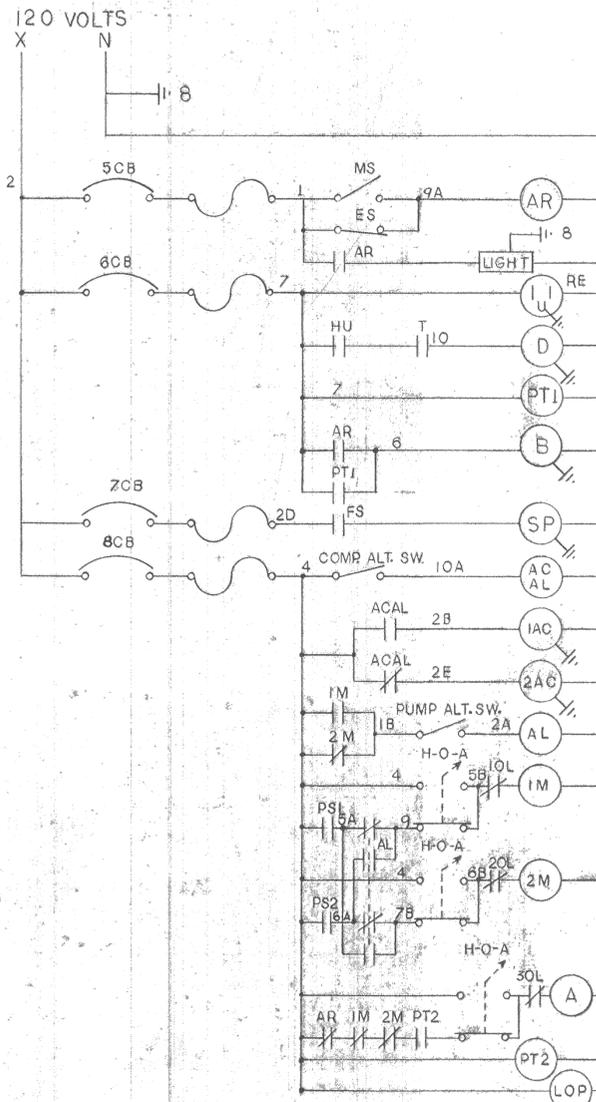
3 PHASE 3 WIRE
480 V



TELEMETRY CONTACTS



BASE COLOR	WIRE COLOR CODE		
	NONE	GREEN	WHITE
RED	1	1A	1B
BLACK	2	2A	2B
WHITE	3		
BROWN	4	4A	4B
BLUE	5	5A	5B
YELLOW	6	6A	6B
ORANGE	7	7A	7B
GREEN	8		
PINK	9	9A	9B
PURPLE	10	10A	10B



LEGEND

- A AERATOR MOTOR STARTER
- AC AIR COMPRESSOR MOTOR
- ACAL AIR COMPRESSOR ALTERNATOR (MOTOR DRIVEN)
- AL PUMP ALTERNATOR (SOLENOID)
- AR AUX. RELAY
- B BLOWER (VENTILATING)
- CB CIRCUIT BREAKER
- D DEHUMIDIFIER
- ES ENTRANCE DOOR SWITCH
- FS FLOAT SWITCH
- HDW HIGH DRY WELL FLOAT SWITCH
- H-O-A HAND OFF AUTO SELECTOR SWITCH
- HU HUMIDISTAT
- LOP LOSS OF POWER RELAY
- M MOTOR STARTER
- MS MANUAL SWITCH
- OL OVERLOAD RELAY
- PS1 PRESSURE SWITCH LOW LEVEL
- PS2 PRESSURE SWITCH HIGH LEVEL
- PS3 LOSS OF BUBBLER (LOB) PRESSURE SWITCH
- PS4 HIGH WET WELL (HW) PRESSURE SWITCH
- PT1 PERCENTAGE ON TIMER (BLOWER)
- PT2 PERCENTAGE ON TIMER (AERATOR)
- RE RECEPTACLE (GROUND FAULT INTERRUPT TYPE)
- SP SUMP PUMP
- T THERMOSTAT

PUMP MOTOR STARTERS 1M AND 2M SHALL BE SIZE 2 WITH THERMAL OVERLOAD HEATERS SIZED FOR THE 5HP MOTORS USED.

AERATOR MOTOR STARTER IA SHALL BE SIZE 1 WITH THERMAL OVERLOAD HEATERS SIZED FOR THE 2HP MOTOR USED.

CIRCUIT BREAKERS FOR EACH PUMP MOTOR SHALL BE 15 AMPERE E FRAME TYPE FOR 5HP, BUT WIRING AND PHYSICAL ARRANGEMENT SHALL ACCOMMODATE A LATER INCREASE TO 40AMP BREAKERS SUITABLE FOR 15HP MOTORS.

ALL WIRING SHALL BE STRANDED COPPER THHN GRADE OR BETTER

ALL ELECTRICAL CONDUITS GOING OUTSIDE THE DRY WELL SHALL BE SCHEDULE 40 P.V.C. WITH PROPER GROUTING AND SEALS SUCH THAT NO WATER MAY ENTER THE CONDUIT OR FLOW FROM IT INTO THE STATION.

WEATHER PROOF OUTSIDE SERVICE PEDESTAL SHALL BE COMPARTMENTED, WITH ONE AREA FOR ENTRANCE AND METER AND ANOTHER FOR MAIN DISCONNECT. A 100AMP/480 VOLT CIRCUIT BREAKER, ENTRANCE PANELS INTO BOTH SIDES SHALL BE LOCKABLE. METER SOCKET AND COMPARTMENT SHALL MEET APPLICABLE PG&E SPECIFICATIONS. THE P.V.C. CONDUIT SHALL TERMINATE WITHIN THE APPROPRIATE AREAS OF THE PEDESTAL. A TESCO 20-LB OR EQUAL WILL BE SATISFACTORY.

THE 3KVA 480/120 TRANSFORMER SHALL BE MOUNTED ON THE REAR OF THE CONTROL CABINET AND SHALL BE OF THE DRY SILENT CLOSED TYPE. CONTRACTOR SHALL TAKE CARE THAT IT IS CONNECTED TO ONE OF THE TWO CLOSED SIDES OF THE OPEN DELTA 480 VOLT SUPPLY.

A PERMANENT PLASTIC, WATERPROOF, SIGN SHALL BE PUT ON THE CONTROL CABINET:

TELEMETRY ALARMS ARE SENT BY:

- 1 HIGH WET WELL
- 2 HIGH DRY WELL
- 3 LOSS OF BUBBLER PRESSURE
- 4 LOSS OF POWER

HIGH DRY WELL (HDW) SWITCH SHALL BE A FLOAT TYPE SUCH AS HYDRAMATICS MODEL 3900-1 WITH NORMALLY CLOSED CONTACTS, HANGING FROM THE BOTTOM OF THE CONTROL CABINET, HEIGHT ADJUSTED TO WITHIN 1/2" OF THE FLOOR.

LOSS OF BUBBLER (LOB) PRESSURE SWITCH SHALL BE A NORMALLY OPEN TYPE THAT CLOSSES WITH PRESSURE RISE. SWITCH SHALL BE CLOSED WITH 4" OF WATER AND SHALL BE ABLE TO WITHSTAND UP TO 15PSIG WITHOUT DAMAGE. SWITCH SHALL BE FAIRCHILD PES 100A-40 OR EQUAL.

HIGH WET WELL (HW) PRESSURE SWITCH SHALL BE A 0-15 PSIG TYPE WITH SINGLE POLE, OPEN ON PRESSURE RISE OR SPDT CONTACTS, SUCH AS HONEYWELL TYPE L604A-1169.

RELAY LOP (LOSS OF POWER) SHALL BE IN THE CONTROL CABINET.

TELEMETRY WIRING SHALL USE TERMINAL BLOCKS TO TERMINATE EACH CONTACT SET AND TELEPHONE LINE.

ALL COMPONENTS, WIRING, ETC. SHALL MEET APPLICABLE NATIONAL AND LOCAL ELECTRICAL CODES.

480 VOLT WIRING TO AND FROM MAIN DISCONNECT TO BE #2 STRANDED COPPER THHN.

PUMP #1 & #2 WIRING TO BE SIZED FOR 15 H.P.



AS BUILT 7/6/81

AVERY ENGINEERING Drawer 2469 • Donnan Lake, CA 95731		
3-14-80	<i>E. Smith</i>	<i>R. G.</i>
CITY OF OROVILLE INDUSTRIAL UNIT 2 ELECTRICAL E.D.A. PROJECT NO. 07-01-02169 1079		