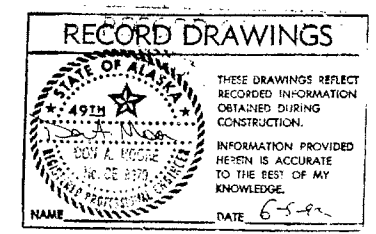
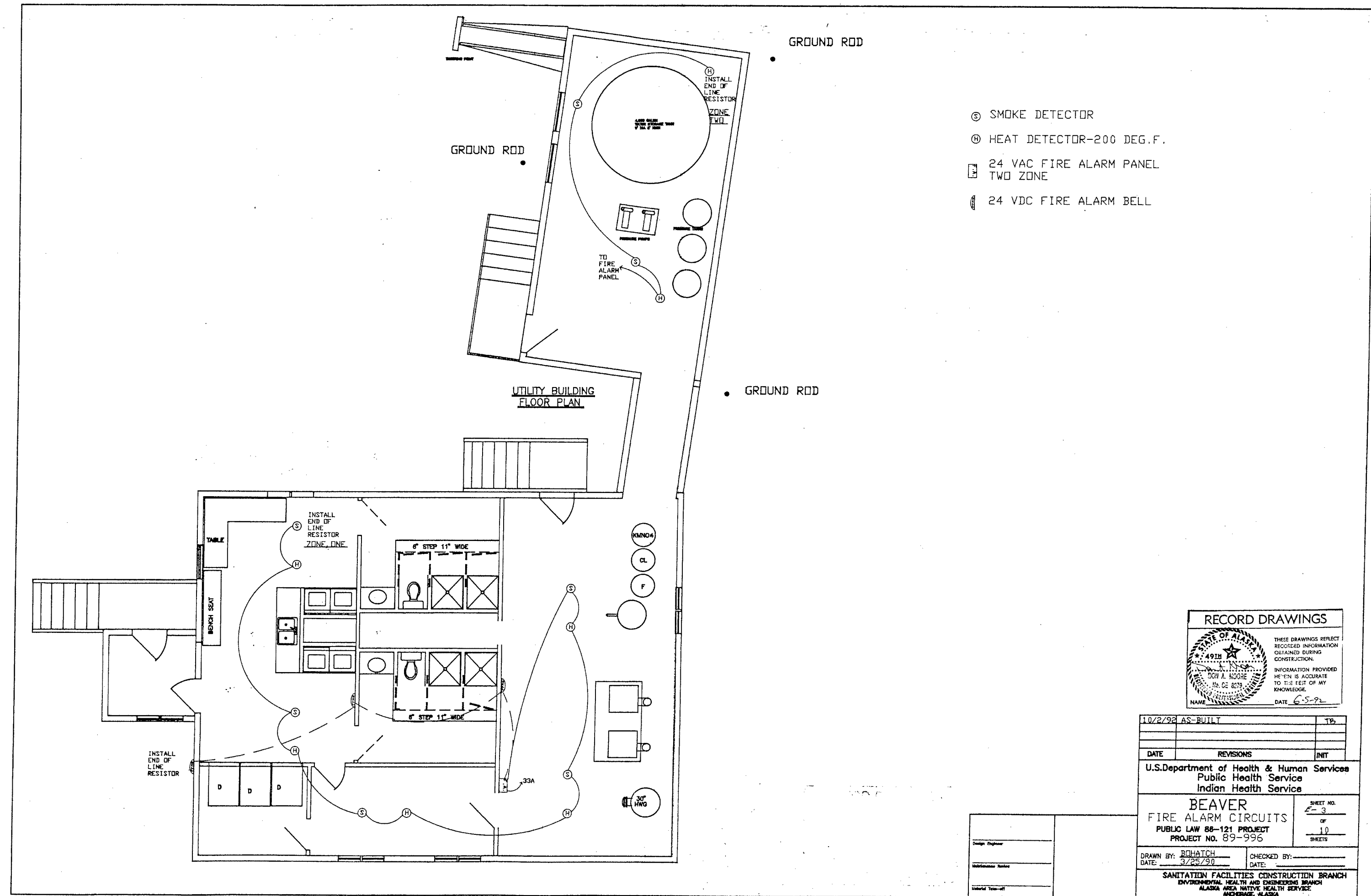


- EMERGENCY LIGHTING-BATTERY OPERATED-1.5 HOURS
- FOUR TUBE FLUORESCENT FIXTURE
- THREE WAY 115 VOLT LIGHT SWITCH (PILOT LIGHT ON IN OFF POSITION)
- SINGLE POLE LIGHT SWITCH (PILOT LIGHT ON IN OFF POSITION)
- CIRCUIT DESIGNATION
- 50 WATT HIGH PRESSURE SODIUM LIGHT FIXTURE WITH PHOTO EYE
- 200 WATT VAPOR PROOF LIGHT FIXTURE
- FAN/LIGHT COMBINATION FIXTURE



10/2/92 AS-BUILT		YB
DATE	REVISIONS	INIT
U.S. Department of Health & Human Services Public Health Service Indian Health Service		
BEAVER LIGHTING PUBLIC LAW 88-121 PROJECT PROJECT NO. 89-996		SHEET NO. E-1 OF 10 SHEETS
DRAWN BY: POHATCH DATE: 3/25/90	CHECKED BY: _____ DATE: _____	
SANITATION FACILITIES CONSTRUCTION BRANCH ENVIRONMENTAL HEALTH AND ENGINEERING BRANCH ALASKA AREA NATIVE HEALTH SERVICE ANCHORAGE, ALASKA		



- Ⓢ SMOKE DETECTOR
- Ⓜ HEAT DETECTOR-200 DEG.F.
- Ⓛ 24 VAC FIRE ALARM PANEL TWO ZONE
- Ⓛ 24 VDC FIRE ALARM BELL

RECORD DRAWINGS

THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION.

INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

NAME: JOHN A. MOORE DATE: 6-5-92

10/2/92 AS-BUILT	TP	
DATE	REVISIONS	INIT
U.S. Department of Health & Human Services Public Health Service Indian Health Service		
BEAVER FIRE ALARM CIRCUITS PUBLIC LAW 88-121 PROJECT PROJECT NO. 89-996		SHEET NO. 5-3 OF 10 SHEETS
DRAWN BY: <u>BOHATCH</u> DATE: <u>3/25/90</u>		CHECKED BY: _____ DATE: _____
SANITATION FACILITIES CONSTRUCTION BRANCH ENVIRONMENTAL HEALTH AND ENGINEERING BRANCH ALASKA AREA NATIVE HEALTH SERVICE ANCHORAGE, ALASKA		

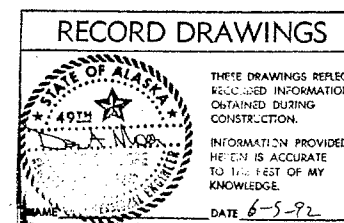
		L1 L2 L3			L1 L2 L3				
		A	B	C	A	B	C		
LIGHTS, WASHETERIA	15	1	1.33		.95		2	15	LIGHTS, HALL
LIGHTS, BATHROOM	15	3		.68		.68	4	15	LIGHTS, BATHROOM
LIGHTS, PLUMBING WALL	15	5					6	15	LIGHTS, MECH. ROOM
LIGHTS, OUTSIDE	15	7	.56		.36		8	20	RECEPTACLE-WASHETERIA
BATHROOM, RECEPTACLE	20	9		.18		.36	10	20	RECEPTACLE-WASHETERIA
BATHROOM, RECEPTACLE	20	11		.28		.18	12	15	BOILER #1
DRYER RM RECEPTACLE	20	13	.36		1.04		14	15	BOILER #2
WORK BENCH RECEPTACLE	20	15		.36		1.04	16	20	RECEPTACLE, DESK
RECEPTACLES, MECH. RM	20	17		.36		.36	18	20	RECEPTACLE, MECH RM
RECEPTACLES, CHEMICAL	20	19	1.4		.36		20	20	DRYER
LIFT	20	21		6.9		1.4	22	20	CIRCULATING
STATION	20	23		6.9		1.4	24	15	PUMP
PANEL	40	25	6.9		1.4		26	15	BOILER #1
UTILITY	40	27		.28		1.4	28	15	CIRCULATING
BUILDING	40	29		.28		1.4	30	15	PUMP
SERVICE	100	31	.28		1.4		32	15	BOILER #2
FIRE ALARM PANEL	15	33		.2		1.4	34	15	CIRCULATING
BUILDING ALARM PANEL	15	35		.2		1.4	36	15	PUMP
PANEL	15	37	.28		1.4		38	15	H.W.G. CIRC. PUMP
B	100	39		.28		.69	40	15	UNIT HEATERS
	100	41		1.4		.4	42	15	SOLENOIDS, SHOWERS

		L1 L2 L3			L1 L2 L3				
		A	B	C	A	B	C		
DRYER	15	1	.83		.83		2	15	DRYER
#1	15	3		.83		.83	4	15	#2
DRYER	15	5		.83		1.4	6	20	WASHER #1
#3	15	7	.83		1.4		8	20	WASHER #2
WATERING POINT	20	9		1.4		1.4	10	20	WASHER #3
	20	11				1.4	12	20	WASHER #4
	20	13					14		
	20	15					16		
	20	17					18		
	20	19					20		
	20	21					22		
	20	23					24		

		L1 L2 L3			L1 L2 L3				
		A	B	C	A	B	C		
HEATER	15	1	3.12		3.12		2	15	HEATER
#1	20	3		3.12		3.12	4	20	#2
HEATER	20	5		3.12		3.12	6	20	HEATER
#3	20	7	3.12		3.12		8	20	#4
HEATER	20	9		3.12		3.12	10	20	HEATER
#5	20	11		3.12		3.12	12	20	#6
	20	13					14		
	20	15					16		
	20	17					18		
	20	19					20		
	20	21					22		
	20	23					24		

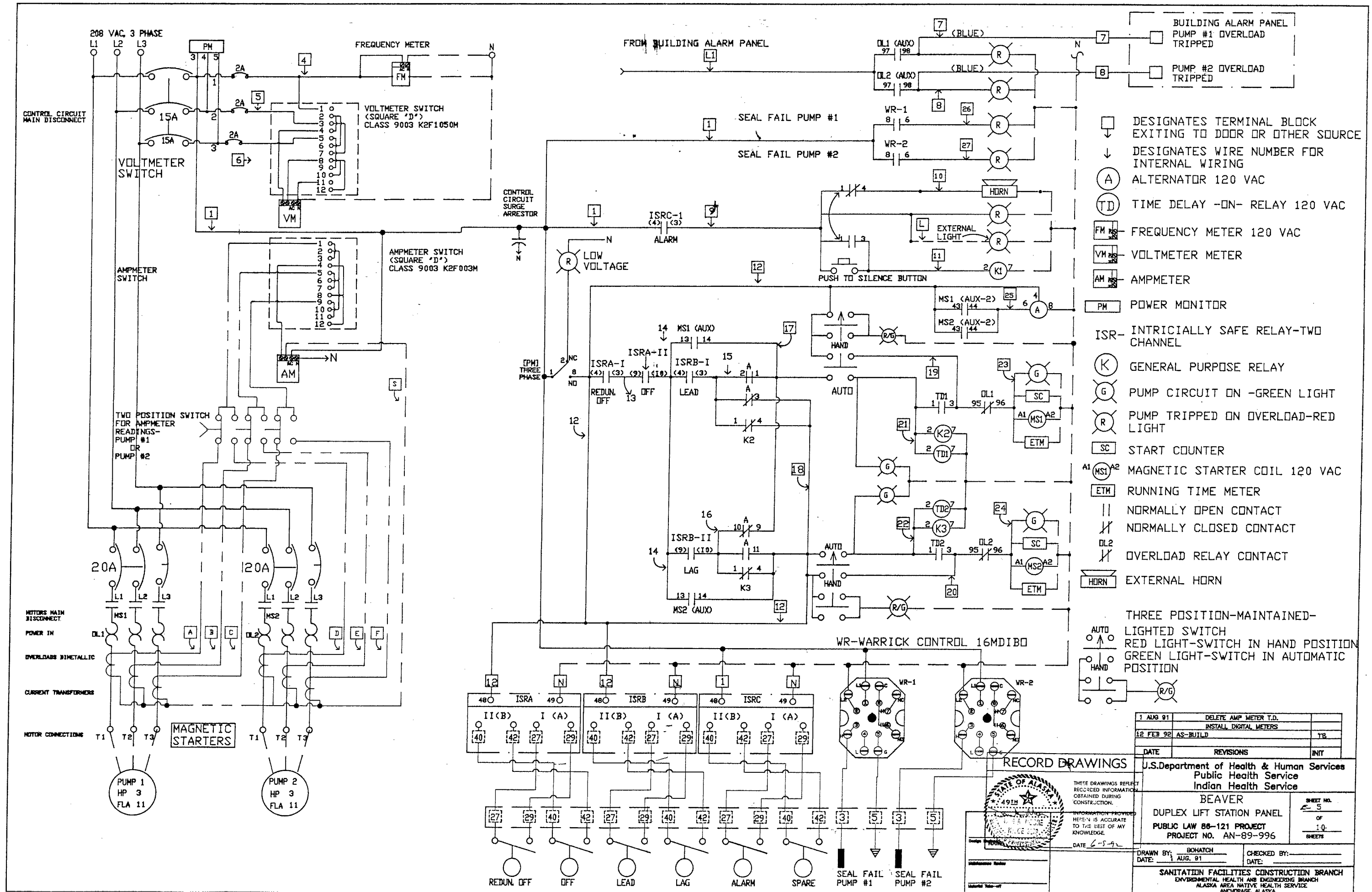
		L1 L2 L3			L1 L2 L3				
		A	B	C	A	B	C		
MAIN LIGHTNING	15	1	1.2				2	15	OUTSIDE LIGHTS
RECEPTACLES	20	3		1.4			4	20	RECEPTACLE
PRESSURE	20	5		8.3			6	20	WATERING POINT
PUMP	20	7	6.9				8		
PANEL	40	9		6.9			10		
AREA,	40	11					12		
	40	13					14		
	40	15					16		
	40	17					18		
	40	19					20		
	40	21					22		
	40	23					24		
	40	25					26		
	40	27					28		
	40	29					30		

- ALL ELECTRICAL INSTALLATIONS TO BE INSTALLED IN ACCORDANCE WITH 1990 NEC SPECIFICATIONS.
- CLEAR AREA REQUIRED FOR ALL ELECTRICAL PANELS:
36" FROM FACE OF PANEL
75" FROM FLOOR UP TO FIRST OBSTRUCTION
15" CLEAR EACH SIDE FROM CENTER LINE OF PANEL
- ALL CIRCUIT INSTALLATIONS WILL BE INSTALLED IN GALVANIZED E.M.T. CONDUIT WITH THE EXCEPTION - MOTORS, FANS AND BOILERS - SEALTIGHT WITH FLEXIBLE METAL CORE WILL BE USED.
- ALL CIRCUITS WILL BE GROUNDED TO THE CONDUIT PLUS A SEPARATE GROUNDING WIRE WILL BE INSTALLED (GREEN).
- CIRCUITS TO BE GFCI DESIGNATED - BATHROOMS (LIGHTING AND RECEPTACLES), RECEPTACLES IN WATER STORAGE TANK ROOM, AND GENERAL PURPOSE RECEPTACLES IN AREA SUBJECT TO MINOR FLOODING (BOILER ROOMS, PLUMBING WALLS, ETC.).
- MINIMUM OF FOUR GROUND RODS TO BE INSTALLED, ONE IN EACH CORNER OF BUILDING TO FORM A SCREEN GRID. #6 BARE SOLID COPPER WIRE WILL BE USED FOR BONDING FROM GROUND RODS TO LOAD CENTERS. IN AREAS WHERE SALT WATER IS CONCENTRATED OR A HIGH SALT-SILT SOIL IS EVIDENT GROUND WIRE BONDING TO GROUND RODS WILL BE MADE WITH CAD WELL FUSION AS PRIMARY CHOICE OR SILVER SOLDER AS SECONDARY CHOICE.
- ALL ELECTRICAL INSTALLATIONS SHALL BE INSTALLED BY LICENSED ELECTRICIAN. IN THE CASE WHERE ELECTRICAL TRAINEES ARE ASSISTING WITH THE ELECTRICAL WORK, ALL ELECTRICAL WORK SHALL BE PHYSICALLY INSPECTED BY LICENSED PERSONNEL PRIOR TO ENERGIZING THE CIRCUITS.
- TEMPORARY WIRING USED DURING CONSTRUCTION PHASE OF PROJECTS TO BE WIRED TO GFCI BREAKERS AND INSTALLED BY LICENSED ELECTRICIAN. TEMPORARY WIRING TO BE CONSIDERED AS PERMANENT.
- HIGH PRESSURE SODIUM FIXTURES WILL BE MARKED INDICATING WATTAGE AND BULB SIZE WITH A 1"x3" TAG MOUNTED NEAR THE BASE OF THE FIXTURE.
- J-BOXES MOUNTED IN ENCLOSED AREAS (SUSPENDED CEILINGS) WILL BE MARKED ON THE FRONT COVER INDICATING CIRCUIT NUMBERS AND PURPOSE.
- DURING CONSTRUCTION PHASE WHEN ELECTRICAL PANELS AND CIRCUITS ARE EXPOSED WARNING SIGNS WILL BE POSTED INDICATING - DANGER HIGH VOLTAGE, ELECTRICAL CIRCUITS ENERGIZED, DO NOT TOUCH. CONSTRUCTION FOREMAN WILL BE ASKED TO INCLUDE THESE WARNINGS DURING WEEKLY SAFETY MEETINGS. ALL ELECTRICAL PANELS AND CIRCUITS WILL BE COVERED PRIOR TO LICENSED ELECTRICIAN DEPARTING THE
- CIRCUITS WILL BE WIRED ACCORDINGLY:
LIGHTING CIRCUITS-BLACK THHN STRANDED
CARRIER SIDE OF SWITCH-YELLOW THHN STRANDED
GENERAL PURPOSE RECEPTACLES-RED THHN STRANDED
ALARM CIRCUITS-BROWN THHN STRANDED
ALARM CIRCUITS SUPPLY-BLUE THHN STRANDED
208/240 V CIRCUITS-PURPLE THHN STRANDED
- WIRE SIZES ARE AS FOLLOWS:
#14 THHN-15A BREAKER
#12 THHN-20A BREAKER
#10 THHN-30A BREAKER
#8 THHN-50A BREAKER
#6 THHN-70A BREAKER
#4 THHN-80A BREAKER
#1/0THHN-150ABREAKER
#3/0THHN-200ABREAKER



Design Engineer	
Mathematics Review	
Material Take-off	

10/2/92	AS-BUILT	TB
DATE	REVISIONS	INT
U.S. Department of Health & Human Services Public Health Service Indian Health Service		
BEAVER		
CIRCUIT BREAKER PANELS		
PUBLIC LAW 86-121 PROJECT		
PROJECT NO. 89-996		
DRAWN BY: BOHATCH	CHECKED BY:	
DATE: 3/25/90	DATE:	
SANITATION FACILITIES CONSTRUCTION BRANCH ENVIRONMENTAL HEALTH AND ENGINEERING BRANCH ALASKA AREA NATIVE HEALTH SERVICE ANCHORAGE, ALASKA		

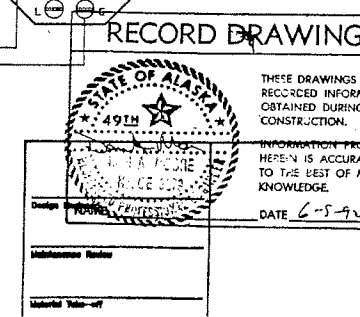


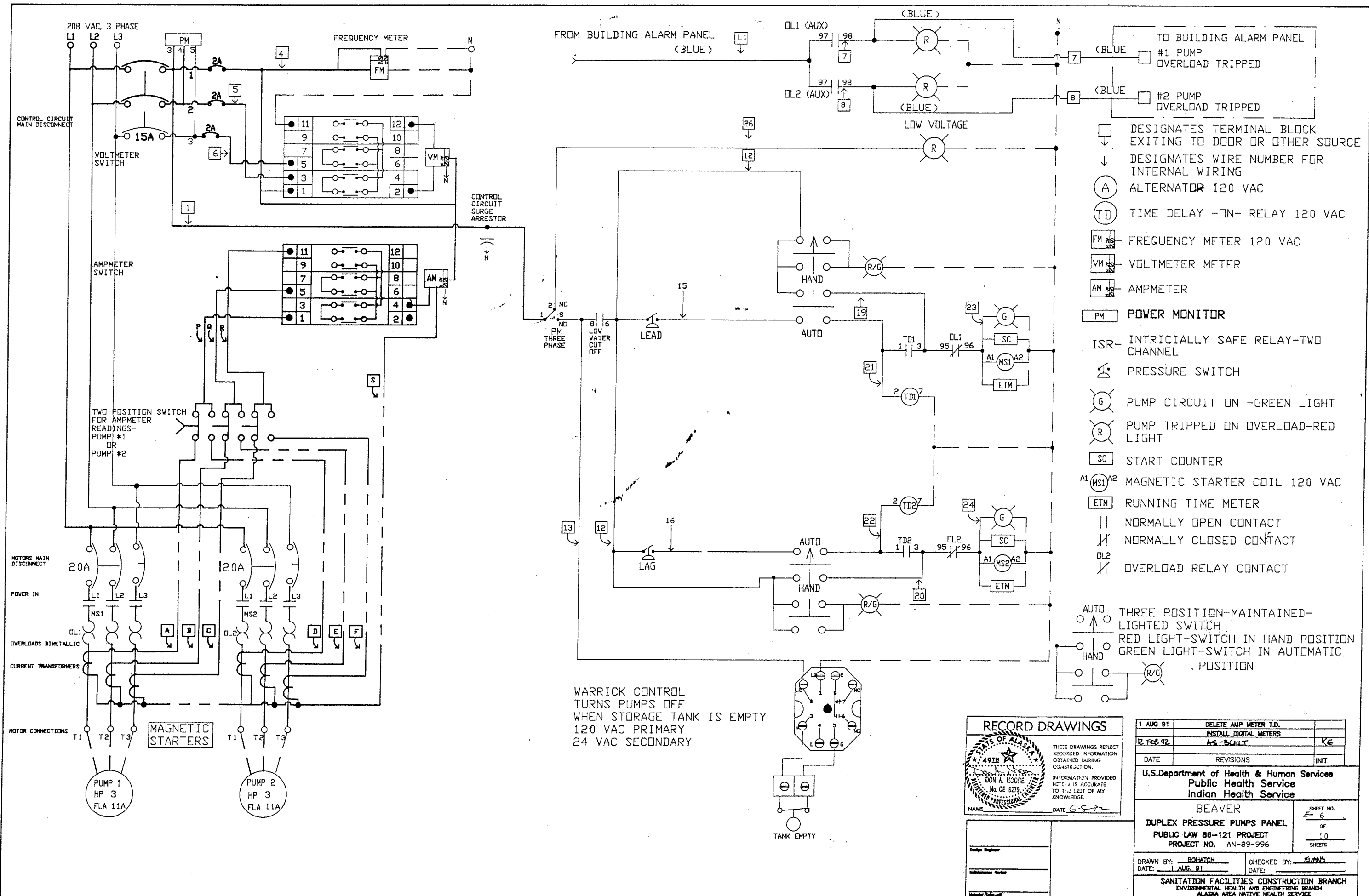
- DESIGNATES TERMINAL BLOCK EXITING TO DOOR OR OTHER SOURCE
- ↓ DESIGNATES WIRE NUMBER FOR INTERNAL WIRING
- (A) ALTERNATOR 120 VAC
- (TD) TIME DELAY -ON- RELAY 120 VAC
- FM FREQUENCY METER 120 VAC
- VM VOLT METER
- AM AMPMETER
- PM POWER MONITOR
- ISR- INTRINSICALLY SAFE RELAY-TWO CHANNEL
- (K) GENERAL PURPOSE RELAY
- (G) PUMP CIRCUIT ON -GREEN LIGHT
- (R) PUMP TRIPPED ON OVERLOAD-RED LIGHT
- SC START COUNTER
- A1 (MS1) A2 MAGNETIC STARTER COIL 120 VAC
- ETM RUNNING TIME METER
- || NORMALLY OPEN CONTACT
- || NORMALLY CLOSED CONTACT
- DL2 OVERLOAD RELAY CONTACT
- HORN EXTERNAL HORN

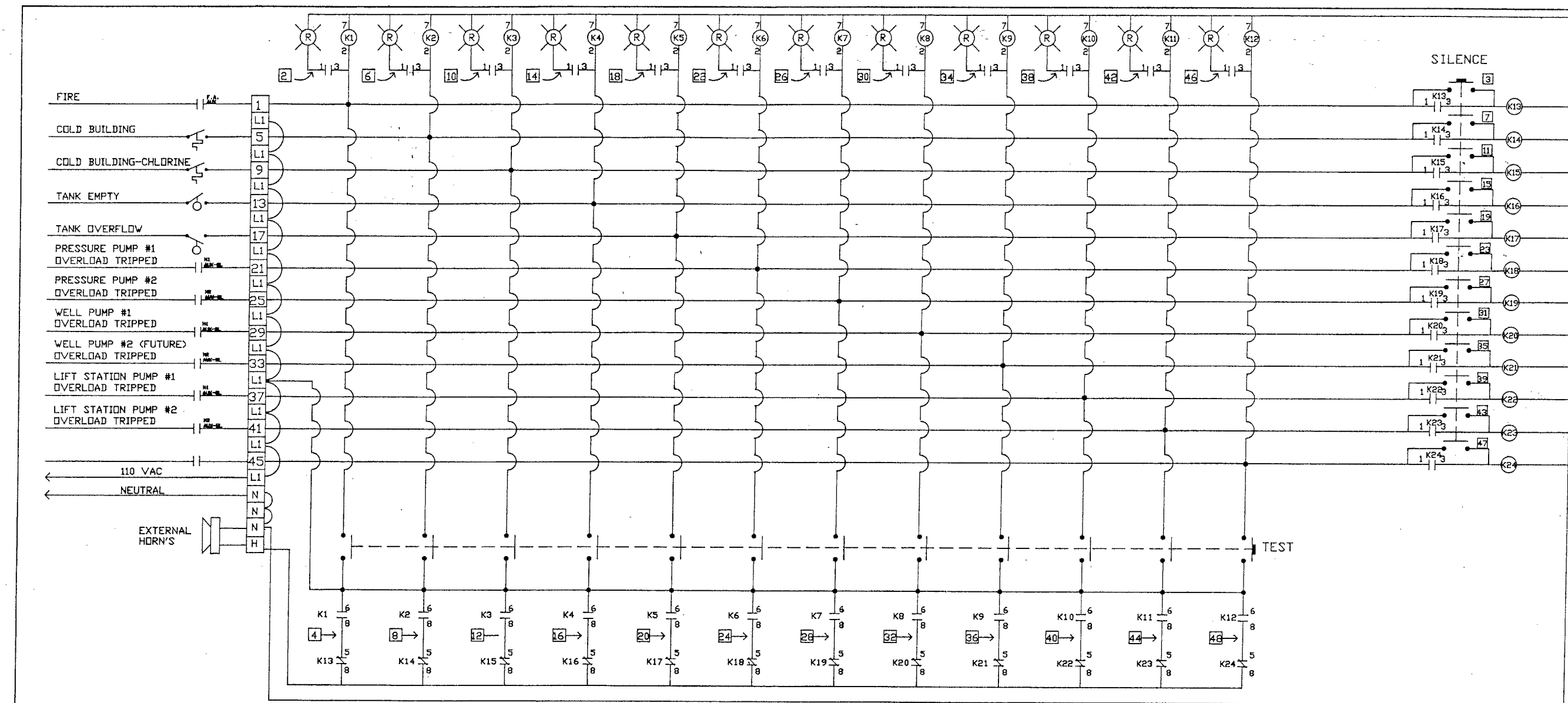
THREE POSITION-MAINTAINED-LIGHTED SWITCH
RED LIGHT-SWITCH IN HAND POSITION
GREEN LIGHT-SWITCH IN AUTOMATIC POSITION

1 AUG 91	DELETE AMP METER T.D.	
12 FEB 92	AS-BUILD	TS
DATE	REVISIONS	INIT

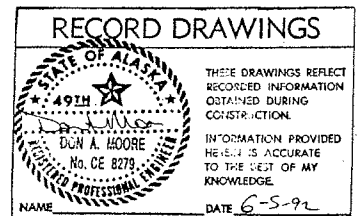
U.S. Department of Health & Human Services Public Health Service Indian Health Service	
BEAVER	
DUPLIX LIFT STATION PANEL	
PUBLIC LAW 88-121 PROJECT PROJECT NO. AN-89-996	
DRAWN BY: BOHATCH DATE: 1 AUG 91	CHECKED BY: _____ DATE: _____
SANITATION FACILITIES CONSTRUCTION BRANCH ENVIRONMENTAL HEALTH AND ENGINEERING BRANCH ALASKA AREA NATIVE HEALTH SERVICE ANCHORAGE, ALASKA	



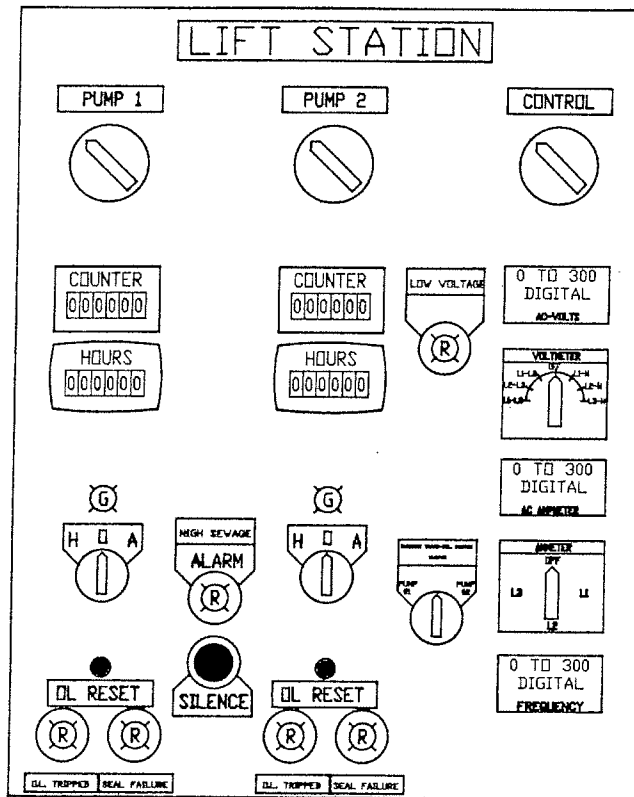




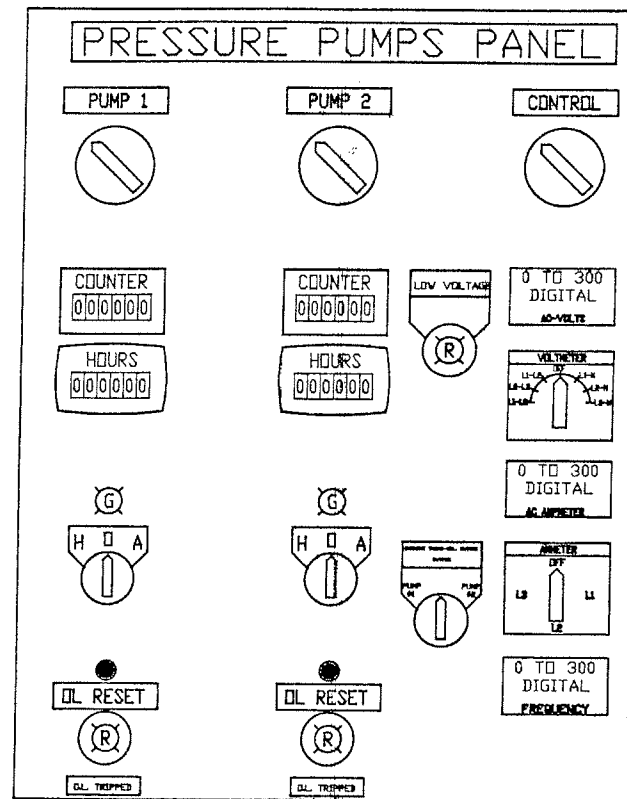
- | | |
|--|--|
| FIRE | — FIRE ALARM AUXILLARY CONTACTS |
| COLD BUILDING | — HONEYWELL AIR THERMOSTAT |
| COLD BUILDING-CHLORINE | — HONEYWELL AIR THERMOSTAT |
| TANK EMPTY | — NORMALLY CLOSED CONTACTS (FLOAT) |
| TANK OVERFLOW | — NORMALLY OPEN CONTACTS (FLOAT) |
| PRESSURE PUMP #1 OVERLOAD TRIPPED | — MOTOR STARTER NO.1 OVERLOAD AUXILLARY CONTACTS |
| PRESSURE PUMP #2 OVERLOAD TRIPPED | — MOTOR STARTER NO.2 OVERLOAD AUXILLARY CONTACTS |
| WELL PUMP #1 OVERLOAD TRIPPED | — MOTOR STARTER NO.1 OVERLOAD AUXILLARY CONTACTS |
| WELL PUMP #2 (FUTURE) OVERLOAD TRIPPED | — MOTOR STARTER NO.2 OVERLOAD AUXILLARY CONTACTS |
| LIFT STATION PUMP #1 OVERLOAD TRIPPED | — MOTOR STARTER NO.1 OVERLOAD AUXILLARY CONTACTS |
| LIFT STATION PUMP #2 OVERLOAD TRIPPED | — MOTOR STARTER NO.2 OVERLOAD AUXILLARY CONTACTS |



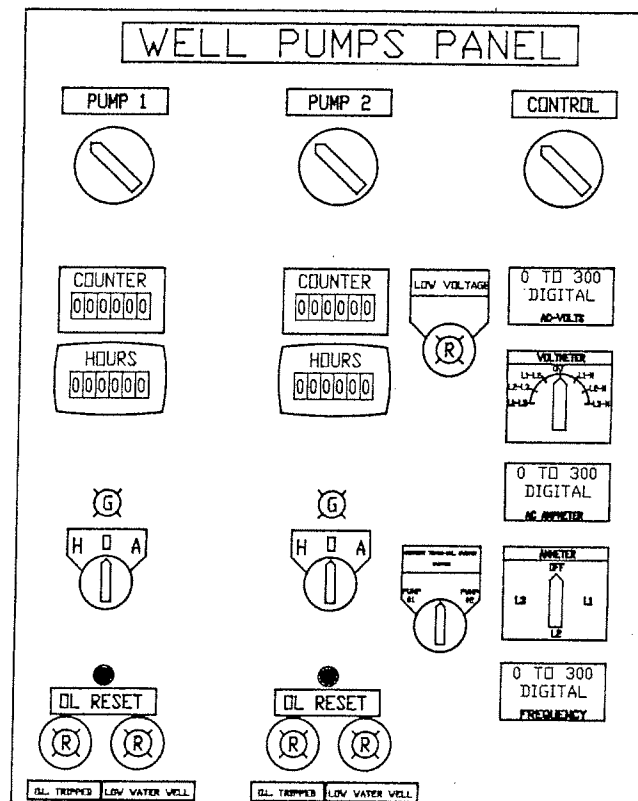
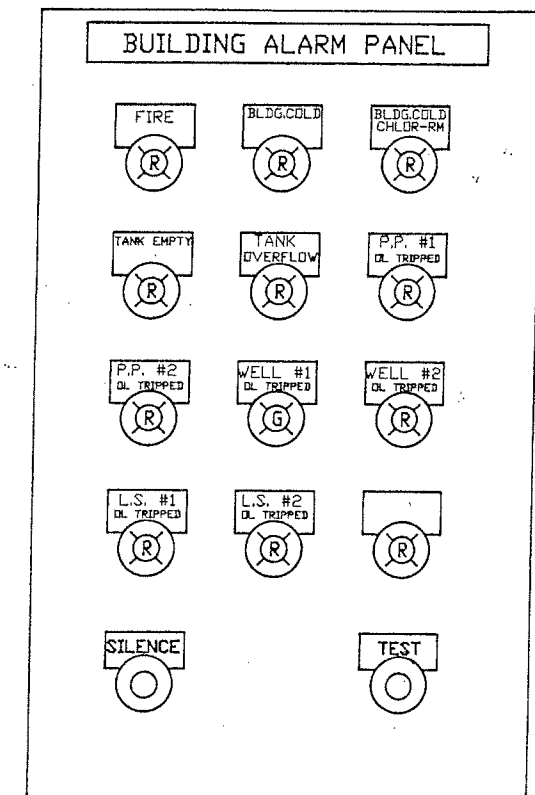
RECORD DRAWINGS		
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION.		
INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.		
NAME	DATE	
12 FEB 92	AS-BUILT	KE
DATE	REVISIONS	INIT
U.S. Department of Health & Human Services Public Health Service Indian Health Service		
BEAVER		
12 CIRCUIT ALARM PANEL		SHEET NO. E-7
PUBLIC LAW 86-121 PROJECT		OF 10
PROJECT NO. AN-89-996		SHEETS
DRAWN BY: BOHATCH	CHECKED BY: EUMS	
DATE: FEBRUARY 1991	DATE:	
SANITATION FACILITIES CONSTRUCTION BRANCH ENVIRONMENTAL HEALTH AND ENGINEERING BRANCH ALASKA AREA NATIVE HEALTH SERVICE ANCHORAGE, ALASKA		



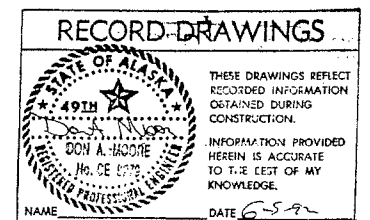
LIFT
STATION
PUMPS
3 HP
208 VAC
11 FLA



PRESSURE
PUMPS
3 HP
208 VAC
11 FLA



WELL
PUMPS
3 HP
208 VAC
11 FLA



12 FEB 92	AS BUILT	KE
DATE	REVISIONS	INIT

U.S. Department of Health & Human Services
Public Health Service
Indian Health Service

BEAVER
PANEL FACES
PUBLIC LAW 86-121 PROJECT
PROJECT NO. AN 89-996

DRAWN BY: BQHATCH
DATE: 1989
CHECKED BY: _____
DATE: _____

SANITATION FACILITIES CONSTRUCTION BRANCH
ENVIRONMENTAL HEALTH AND ENGINEERING BRANCH
ALASKA AREA NATIVE HEALTH SERVICE

Design Engineer	
Manufacturing Review	
Material Test-off	

