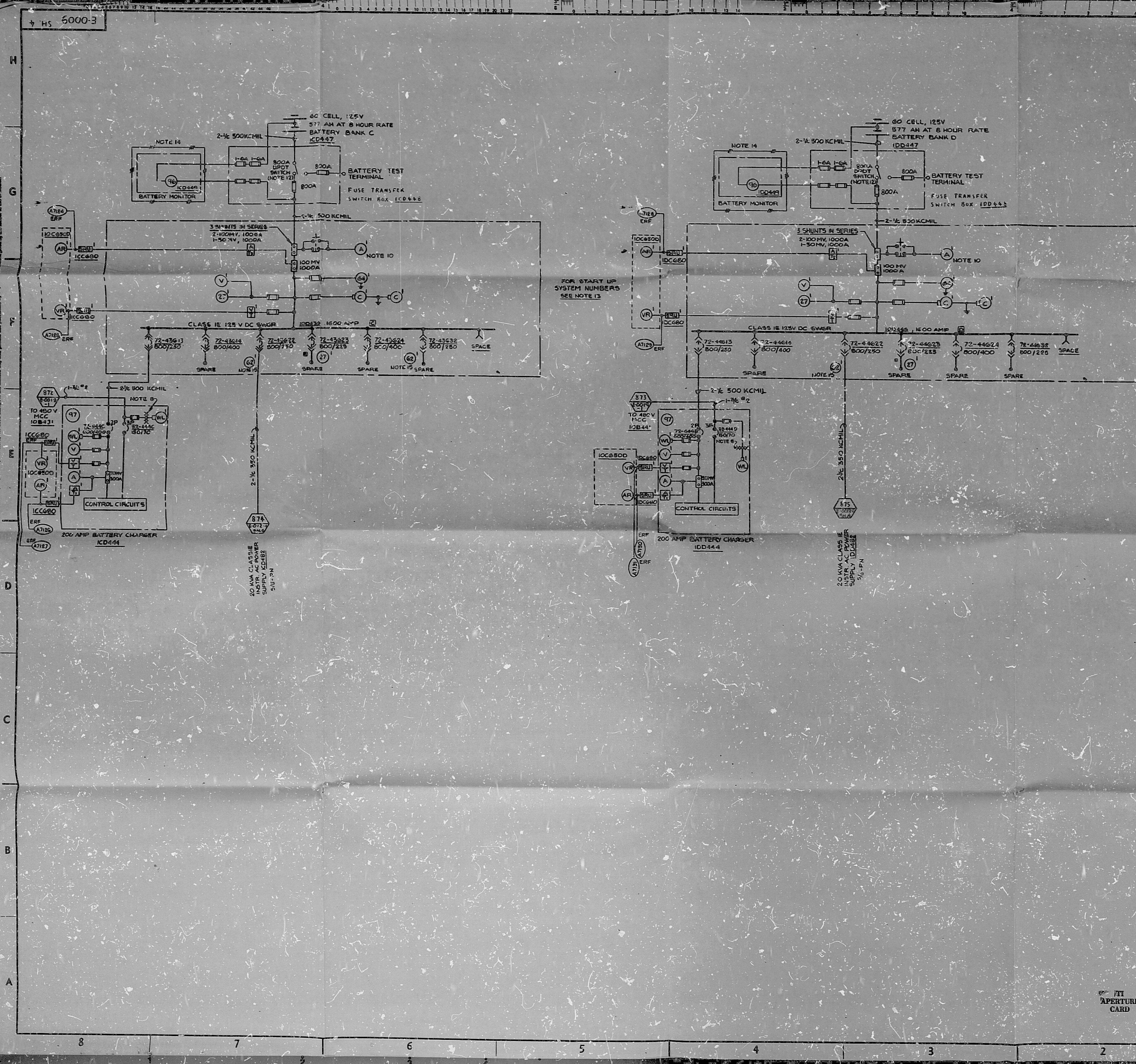


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ITEM	DESCRIPTION	QUANTITY	REMARKS
77	DC UNDERVOLTAGE RELAY	2	REMARK 9
84	GROUND DETECTOR RELAY	2	REMARK 10
97	BATTERY CHARGER FAILURE ALARM	2	REMARK 11
98	BATTERY MONITOR TO BATTERY	2	REMARK 12
A	AMMETER	2	REMARK 13
V	VOLTMETER	2	REMARK 14
ATI	CURRENT TRANSDUCER	2	REMARK 15
AVI	VOLTAGE TRANSDUCER	2	REMARK 16
VT	VOLTMETER (CONTROL RM.)	2	REMARK 17
AR	AMMETER (CONTROL RM.)	2	REMARK 18
VR	VOLTMETER (CONTROL RM.)	2	REMARK 19
SFU	MANUAL FEEDBACK UNIT (CONTROL RM.)	2	REMARK 20
GE	TIME DELAY RELAY	2	REMARK 21

- NOTES:
- BATTERY CHARGER FAILURE ALARM (DEVICE #97) CONSISTS OF:
 - A- AC POWER FAILURE RELAY
 - B- DC UNDERVOLTAGE RELAY
 - C- OUTPUT CIRCUIT BREAKER POSITION CONTACT
 - D- INSUFFICIENT CHARGER CURRENT DEVICE
 - E- DC OVERVOLTAGE RELAY
 - F- DC HIGHVOLTAGE SHUTDOWN RELAY
 - G- INPUT CIRCUIT BREAKER POSITION CONTACTS
 - UNLESS OTHERWISE NOTED ALL FUSES SHALL BE 1/2 INCH 1/16 INCH FOR ELECTRICAL WIRING 75-400 SEE DWS 4005-4-1102
 - 500/250 FUSE (DIV. OF STERLING CORP.)
 - FOR ELECTRICAL DEVICE SCHEDULE SEE DWS 10055 E-111-0
 - ALARMS AFTER A PREDETERMINED TIME DELAY
 - CONTROL TRANSFORMER 480V-120V-1/2
 - CABLES SHALL BE COPPER
 - DUAL SCALE AMMETER
 - BATTERY MONITOR CONTINUOUSLY MONITOR THE BATTERY VOLTAGE AND PROVIDES AN ALARM UPON LOSS OF THE BATTERY AVAILABILITY INCLUDING BLOWN FUSE
 - FIXED TRANSFER SWITCH MANUAL LOCKABLE IN THE ON LINE POSITION
 - ALL ITEMS 311-PK (START UP SYSTEM-PK) EXCEPT AS NOTED
 - BATTERY MONITORS WILL BE SEISMICALLY QUALIFIED PER SUPPLIER'S SEISMIC QUALIFICATION METHOD. BECHTEL WILL PROVIDE SEISMICALLY QUALIFIED MOUNTING SUPPORT FOR THE BATTERY MONITOR
 - TIMERS ARE DISCONNECTED AND NOT USED

- ADDITIONAL SYMBOLS:
- 87A REFERENCE NOTATION
 - 87B CONTINUATION DRAWING NUMBER
 - 87C CLASS II CHANNEL C
 - 87D DRAWOUT TYPE CIRCUIT BREAKER INDICATES SHORT AND LONG TIME TRIP ELEMENTS ONLY
 - 87E DRAWOUT TYPE CIRCUIT BREAKER WITH LONG AND INSTANTANEOUS TRIP ELEMENTS
 - 87F NON DRAWOUT TYPE CIRCUIT BREAKER
 - 87G ALL EQUIPMENT ON THIS DWS IS Q-LISTED EXCEPT THAT WHICH IS IDENTIFIED BY ADJACENT BOUNDARY

EQUIPMENT LOCATION NUMBER:
ICD447 - 125V BATTERY BANK D-UNIT 1 (TYPICAL)
ICD442 - MAIN VERTICAL BOARD, SECTION D.

87A-87G ERF EMERGENCY RESPONSE FACILITY
L-COMPUTER 10

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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REVISIONS

NO.	DATE	REVISION	BY	CHKD	APPD
1	10/1/55	REVISED & ADDED AS SHOWN	J. H. HO	APA	

SCALE: NONE

BECHTEL
SAN FRANCISCO

PUBLIC SERVICE ELECTRIC AND GAS COMPANY
HOPE CREEK GENERATING STATION

SINGLE LINE METERING RELAY DIAGRAM
125V DC SYSTEM CHANNELS C&D

JOB NO. 10855 DRAWING NO. E0009-1 SH. 6 OF 6 REV. 4 Q

PDR RID'S

8602270645

