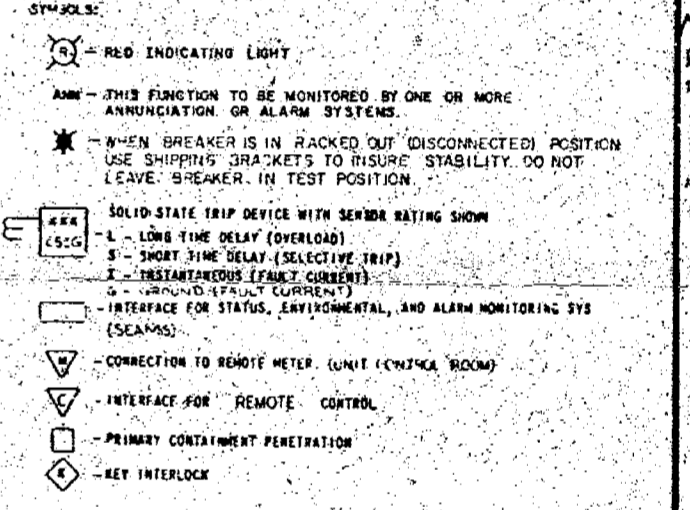


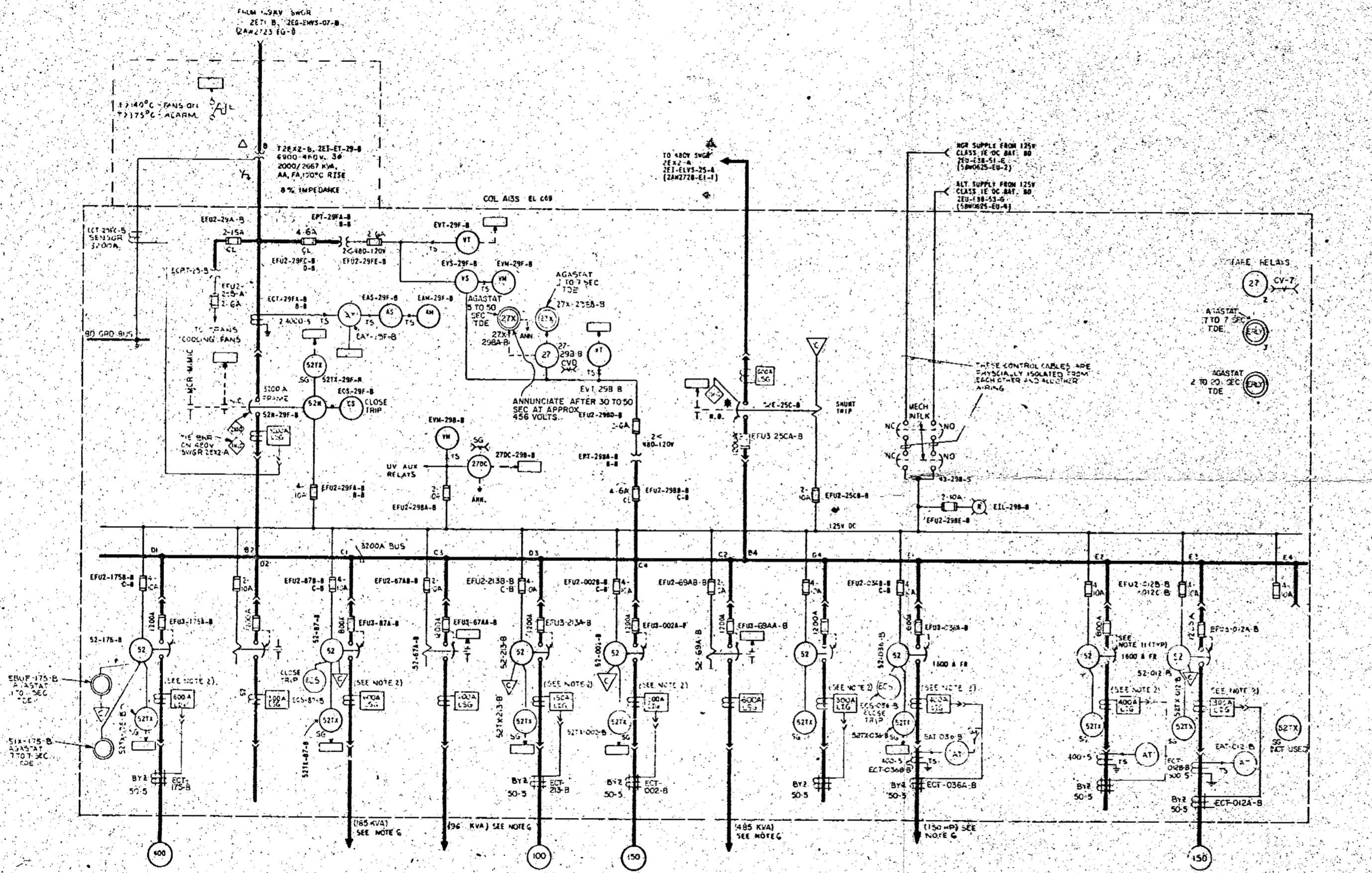
REVISIONS	
NO.	DESCRIPTION
1	ISSUED FOR CONSTRUCTION
2	REVISED FOR CHANGES
3	REVISED FOR CHANGES
4	REVISED FOR CHANGES
5	REVISED FOR CHANGES
6	REVISED FOR CHANGES
7	REVISED FOR CHANGES
8	REVISED FOR CHANGES
9	REVISED FOR CHANGES
10	REVISED FOR CHANGES
11	REVISED FOR CHANGES
12	REVISED FOR CHANGES

- NOTES:
- 480V SWGR PROVIDED ON CONTRACT NO. 22-3-8552G.
 - ALL CKT BRKS ARE 3-POLE BRK OR WITH REAR MOUNTED CURRENT LIMITING FUSE ON LINE SIDE OF EACH POLE, EXCEPT AS NOTED.
 - 500A FR BRKS HAVE 2000,000A RMS SIM INTERRUPTING RATING AT 480V. 1500A FR BRKS HAVE 50,000A RMS SIM INTERRUPTING RATING AT 480V. 2500A FR BRKS HAVE 65,000A RMS SIM INTERRUPTING RATING AT 480V. AS NOTED, BRKS ARE EQUIPPED WITH ELECTRICAL LOCKOUT ATTACHMENT. MECHANICAL LOCKS ARE PROVIDED AUTOMATICALLY BY THE BRK MFG.
 - RELAYS SHALL BE THE TYPES SHOWN ON THIS DRAWING OR THE APPROVED EQUAL.
 - THIS SWGR IS SUBJECT TO ALL REQUIREMENTS FOR CLASS II ELEC EQPT.
 - EACH DEVICE ASSOCIATED WITH THE SWGR BUS, TRANSFORMER, AND THE WGR ON THE CAT BUS, IS PART OF THE 480V CLASS II AC BUS PWR DISTRIBUTION SYS WITH UNIT AND SYS DESIGNATION. THE DEVICE UNIT IS SHOWN BY PREFIXING THE DESIGNATIONS SHOWN ON THE BUS WITH '2E1', EXCEPT AS NOTED. ALL OTHER BRKS WITH THEIR ASSOCIATED DEVICES ARE PART OF THE SYS WHICH THEY SUPPLY. THE UNIT IS FORMED BY PREFIXING THE DESIGNATIONS SHOWN ON THE SWGR WITH THE UNIT AND SYS DESIGNATION SHOWN IN THE HEXAGON SYMBOL, EXCEPT AS NOTED. THE SWGR PWR. UNIT DESIGNATIONS ARE FORMED AS FOLLOWS (USING THE PWR. INDEX): AND THE TRAIL DESIGNATION (Y) A ON B: 2E1-ELV-29X-Y.
 - KVA LOADS SHOWN ARE ESTIMATED MAXIMUM DEMAND.
 - SEE DWG 208014-RY FOR LOADS THAT REQUIRE DIESEL PWR.
 - BLEWN FUSE TRIPS BREAKER.

- SYMBOLS:
- RED INDICATING LIGHT
 - THIS FUNCTION TO BE MONITORED BY ONE OR MORE ANNUNCIATION OR ALARM SYSTEMS.
 - WHEN BREAKER IS RACKED OUT (DISCONNECTED) POSITION USE SHIPPING BRACKETS TO INSURE STABILITY. DO NOT LEAVE BREAKER IN TEST POSITION.
 - SOLID STATE TRIP DEVICE WITH SENSOR RATING SHOWN
 - L - LONG TIME DELAY (OVERLOAD)
 - S - SHORT TIME DELAY (SELECTIVE TRIP)
 - X - INSTANTANEOUS (FAULT CURRENT)
 - INTERFACE FOR STATUS, ENVIRONMENTAL, AND ALARM MONITORING SYS (SEAMS)
 - CONNECTION TO REMOTE METER. (UNIT (CONTROL ROOM))
 - INTERFACE FOR REMOTE CONTROL.
 - PRIMARY CONTAINMENT PENETRATION
 - KEY INTERLOCK
 - UNIT AND SYS DESIGNATION (SEE NOTE 5)



NO.	DATE	DESCRIPTION
1	11/23/81	ISSUED FOR CONSTRUCTION
2	1/14/82	REVISED FOR CHANGES
3	1/14/82	REVISED FOR CHANGES
4	1/14/82	REVISED FOR CHANGES
5	1/14/82	REVISED FOR CHANGES
6	1/14/82	REVISED FOR CHANGES
7	1/14/82	REVISED FOR CHANGES
8	1/14/82	REVISED FOR CHANGES
9	1/14/82	REVISED FOR CHANGES
10	1/14/82	REVISED FOR CHANGES
11	1/14/82	REVISED FOR CHANGES
12	1/14/82	REVISED FOR CHANGES



- 2E1 120VAC/25VDC VITAL CONTROL PWR CHANNEL 2E 2E1-EMOT-07-B (58W2740-VE-07)
- 2E1 480V MCC 2E1-EMCC-67-B (58W2735-EI-1)
- 2E1 ZONE 28 CHILLED WATER PUMP-28-B 2E1-EMOT-213-B (58W2740-VE-08)
- 2E1 AIR COMPRESSOR 2E1-EMOT-002-B (58W2640-RK-06)
- 2E1 480V MCC 2E1-EMCC-69-B (58W2733-EI-1)
- 2E1 RBC FAN 2E1-EMOT-036-B VIA 480V MCC (E2-B COMPT S) 2E1-EMCC-67SI-B
- 2E1 SPARE
- 2E1 ERV-0275-ER PUMP 2E1 2E1-EMOT-012-B (58W2740-VE-14)
- 2E1 FUTURE (EQ)

PRC APERTURE CARD

INSPECTED AND APPROVED FOR ISSUE

DESIGN PROJECT NUMBER: *R.M. Hodges*

APPROVED: *R.M. Hodges*

DATE: 1/14/82

NO. 45W720-4

BELLEFRONTE NUCLEAR PLANT	
TENNESSEE VALLEY AUTHORITY	
DIVISION OF ENGINEERING DESIGN	
UNIT 2	Q
SINGLE LINE DIAGRAM	
480V SWITCHGEAR 2E1-ELV-29-B	
2E1-ELV-29-B	
45W720-4	NO