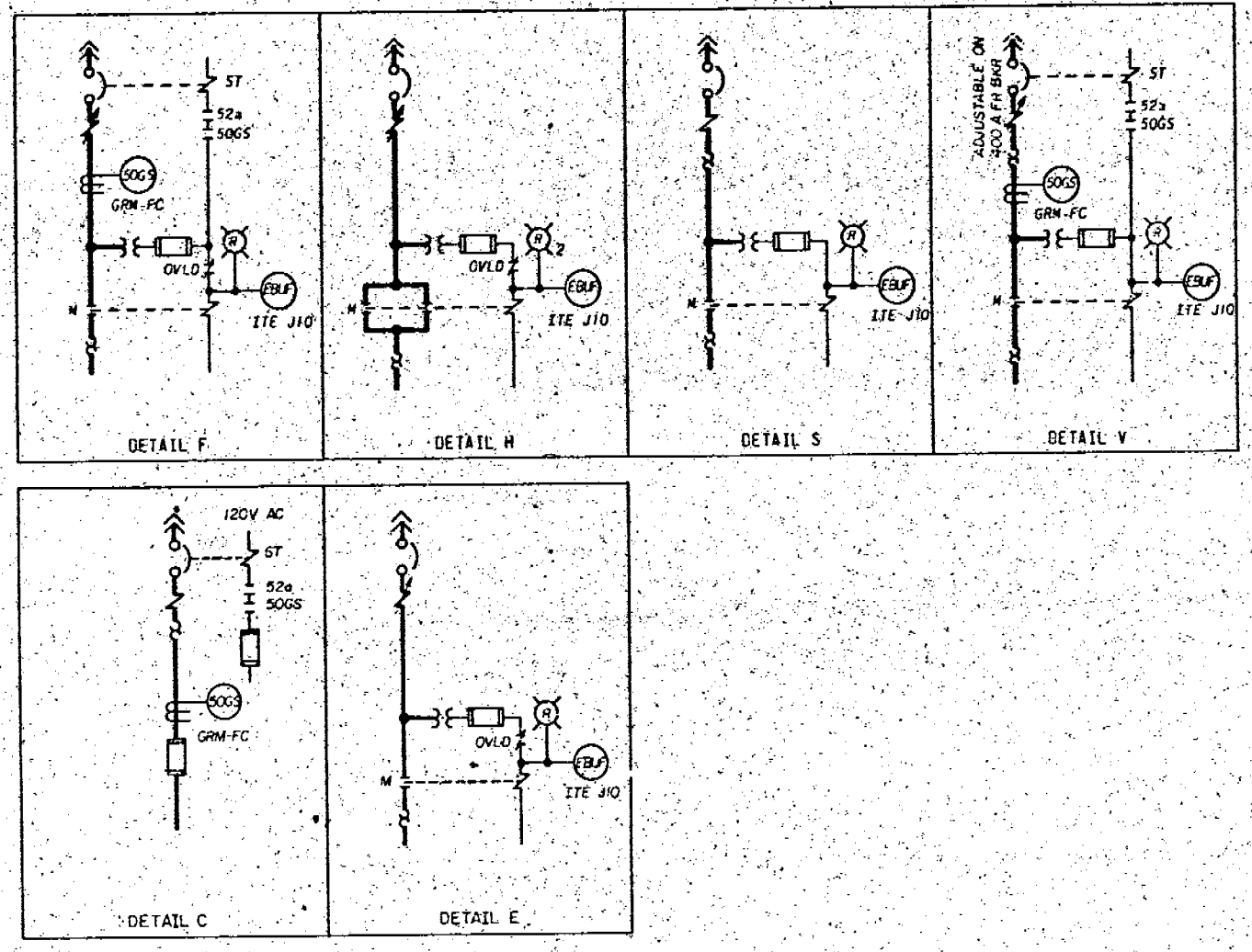


COMP NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCH DWG REFERENCE
A1	MAIN BREAKER	1E1-52NA-69F-B	SEE KEY DIAG		
B1	DSL GEN BLDG ELEC BD EXH FAN	IVG-EMOT-006-B	E	75HP	50W1740-VG-04
B2	DSL GEN 002-B LUBE OIL KEEP-ARM PUMP	IRT-EMOT-008-B	E	15HP	50W1740-RT-03
B3	DSL 03F TANK FUEL TRANS PUMP 1B2	IFF-EMOT-006-B	E	2HP	50W1740-FF-02
B4	DSL DAY TANK FUEL TRANS PUMP 1B1	IFF-EMOT-005-B	E	2HP	50W1740-FF-02
B5	DSL GEN 002-B LUBE OIL HTR	IRT-ENTR-012-B	V	48KW	50W1740-RT-03
C1	DSL GEN BLDG LTG CAB	1EN-ELT-006	C	75KVA	50W1747-EN-01
C2	SPARE	1E1	C		
C4	FUTURE - 12 INCH	1E1			
C5	STANDBY LUBE OIL PUMP	IRT-EMOT-004-B	F	60HP	50W1740-RT-04
D1	ERCW SUPPLY HDR B TO DSL GEN 1B-B NX MOV	1KE-IFCV-357-B	H	13HP	50W1740-KE-19
D2	SPARE	1E1	H		
D3	DSL GEN 002-B SPACE HTR	IRT-ENTR-010-B	S	8KW	50W1740-RT-05
D4	SPARE	1E1	F		
E6	FUTURE - 6 INCH	1E1			
E1	DSL GEN 002-B STARTING AIR CPRSR 012-B	IRG-EMOT-012-B	E	30HP	50W1740-RG-03
E3	DSL GEN 002-B STARTING AIR CPRSR 011-B	IRG-EMOT-011-B	E	30HP	50W1740-RG-03
E5	SPARE	1E1	F		
F1	MCC LOSS OF VOLTAGE RLY		SEE KEY DIAG		
F2	120V-1P-CKT BKR COMPT		SEE KEY DIAG		
F4	FUSE COMPT		SEE KEY DIAG		
F5	MCC CONTROL TRANSFORMER AND DISCONNECT SWITCH		SEE KEY DIAG		
G1	DSL GEN 002-B JACKET WATER KEEP-ARM PUMP	IRT-EMOT-006-B	E	15HP	50W1740-RT-03
G2	SPARE	1E1	E		
G3	FUTURE - 12 INCH	1E1			
G4	DSL GEN EXH FAN 1B1	IVG-EMOT-003-B	F	100HP	50W1740-VG-03
G6	FUTURE - 6 INCH	1E1			
H1	DSL GEN FUEL OIL DRIP RETURN PUMP 1B	IFF-EMOT-015-B	E	1HP	50W1740-FF-03
H2	FUTURE - 12 INCH	1E1			
H3	SPARE	1E1	S		
H4	DSL GEN EXH FAN 1B2	IVG-EMOT-004-B	F	100HP	50W1740-VG-03
H6	FUTURE - 6 INCH	1E1			
J1	DSL GEN 002-B STARTING AIR CPRSR 012-B AFTER COOLER	IRG-EMOT-014-B	E	1HP	50W1740-RG-03

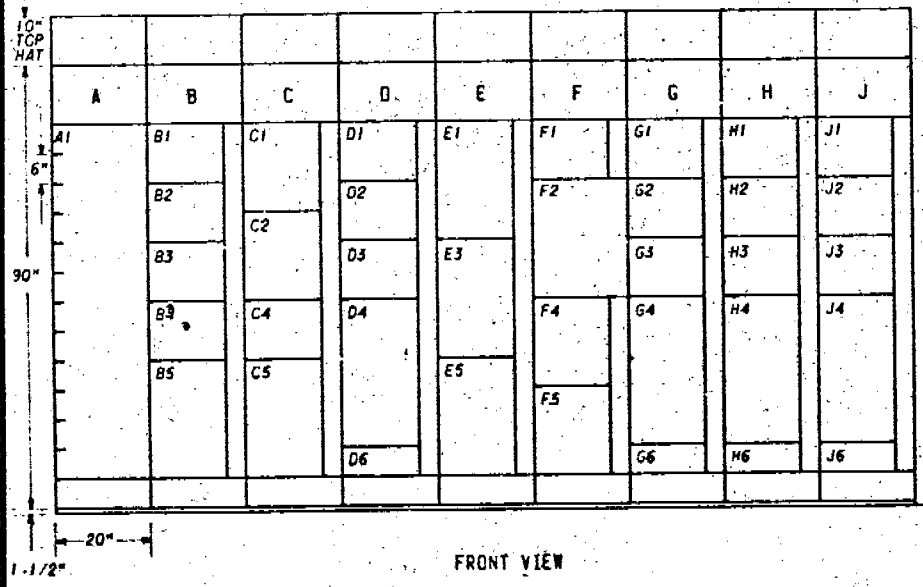
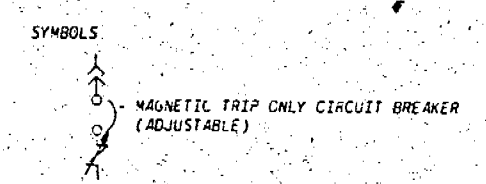
COMP NO.	LOAD	UNID	DETAIL	LOAD SIZE	SCH DWG REFERENCE
J2	DSL GEN 002-B STARTING AIR CPRSR 011-B AFTER COOLER	IRG-EMOT-013-B	E	1HP	50W1740-RG-03
J3	ERCW HDR B YARD DRAINAGE POND ISOLATION MOV	1KE-IFCV-041-B	H	1.6HP	50W0740-KE-01
J4	DSL GEN 002-B JACKET WATER HEATER	IRT-ENTR-004-B	V	75KW	50W1740-RT-03
J6	FUTURE - 6 INCH	1E1			



- NOTES
- 480V MOTOR CONTROL CENTER PROVIDED ON TIA CONTRACT NO. 76K5-86242 BY GOULD/ITE.
  - ALL MOLDED CASE 480V CIRCUIT BREAKERS ARE 30, 600V WITH AN INTERRUPTING RATING OF NOT LESS THAN 25,000 RMS SYMMETRICAL AMPS AT 480V. CIRCUIT BREAKERS SHOWN WITH SHUNT TRIP COILS HAVE A TRIP COIL CAPABLE OF OPERATING AT 55 PERCENT RATED VOLTAGE. ALL 100A FRAME 480V CIRCUIT BREAKERS ARE ITE "E" SERIES AND THE 400A FRAME 480V CIRCUIT BREAKERS ARE ITE "JL" SERIES.
  - ALL MOLDED CASE 120V CIRCUIT BREAKERS ARE 15, 100A FRAME THERMAL MAGNETIC WITH 15A TRIP, TTE "BQ" SERIES.
  - ALL 5A AND 10A FUSES ARE GOULD/SHAWMUT, AMP-TRAP, FORM 600, WIDGET TYPE 2.
  - FUSES IN THE POWER CIRCUITS ARE GOULD/SHAWMUT CLASS "J" CURRENT LIMITING FUSES ARE REQUIRED TO PROVIDE REDUNDANT PROTECTION FOR PRIMARY CONTAINMENT PENETRATIONS.
  - ALL CONTROL TRANSFORMERS ARE 10, 400-120V WITH GROUNDED SECONDARY. THE SECONDARY OF THE 150 VA TRANSFORMER IS FUSED WITH A 1.5A DUAL-ELEMENT TIME-DELAY, BUSSMAN TYPE FNO FUSE. THE SECONDARY OF THE 350 VA TRANSFORMER IS FUSED WITH A 3.5A DUAL-ELEMENT TIME-DELAY GOULD/SHAWMUT TYPE TRM FUSE.
  - GROUND FAULT PROTECTION (50GS), ITE TYPE GRM-FC, PICKS UP AT APPROXIMATELY 10 AMPS PRIMARY CURRENT WITH NO INTENTIONAL TIME DELAY.
  - THE PRIMARY OF THE 5KVA CONTROL POWER TRANSFORMER IS FUSED WITH A 15A TIME DELAY, BUSSMAN TYPE JHC-15 FUSE.
  - THE MOTOR CONTROL CENTER ARRANGEMENT IS CONTROLLED BY THE FRONT VIEW LOCATED ON THIS DRAWING. COMPARTMENT CONFIGURATION CONTROL CIRCUITS ARE REFERENCED IN THE MOTOR CONTROL CENTER COMPUTERIZED CIRCUIT SCHEDULE. THE MOTOR CONTROL CENTER COMPUTERIZED CIRCUIT SCHEDULE DOCUMENTS DEVICE RATINGS, AND ADJUSTABLE CIRCUIT BREAKER SETTINGS.
  - THIS MCC IS CLASS 1S.
  - ALL AGASTAT RELAYS ARE OF THE 7000 SERIES.

REFERENCED DRAWINGS AND DOCUMENTS

PLANT AC AUXILIARY POWER SYSTEM SINGLE LINE: 20W0720-RP-01  
 SINGLE LINE DIAGRAM 480V SWITCHGEAR 1E4-B: 24W1729-EI-1  
 480V CLASS 1E AC AUXILIARY POWER DISTRIBUTION SYSTEM SCHEMATIC: 50W1740-EI-14  
 480V MCC COMPARTMENT TYPICALS: 50W0747-RP  
 480V MCC 1E4-B COMPUTERIZED CIRCUIT SCHEDULE: 50C1763-EI



EL 655 COL 01J

Doc # 83-438  
 Control # 8306050536  
 Date 3-25-83 of Document  
 REGULATORY DOCKET FILE

PRC  
 APERTURE  
 CAP

COMPARISON DWG:  
 50W1733-EI-03  
 50W1733-EI-02 HAS BEEN VOIDED

INSPECTED AND APPROVED FOR ISSUE

3	SI	5-1-82	REVISED	ADD'D LOAD SIZE AND SCHEMATIC DWG REF COLUMN TO TABLES, REVISED NOTES B1-B3 AND MOVED KEY DIAGRAM TO B1-B3
2	SI	1-3-80	REVISED	RECORDED DWG REV FOR THE MCC COMPUTERIZED CKT SCH HISTORICAL DATA BASE, R4
1	SI	4-2-76	REVISED	INCORPORATED UNID SYS. GEN REV PER EGN 'S1' VARIOUS
REV	NO.	DATE	BY	REASON
DESIGN	E. N. IRWIN/R. E. MILLSAPS			
DRAWN	R. W. MANLEY/R. E. MILLSAPS			
CHECKED	L. D. GIESLER			
SUPV	W. L. ALFREDO			
SCALE: NTS EXCEPT AS NOTED				
DIESEL GENERATOR BUILDING UNIT 1				
SINGLE LINE 480V MCC 1E4-B 1E1-EMCC-69-3				
BELLEFONTE NUCLEAR PLANT TENNESSEE VALLEY AUTHORITY DIVISION OF ENGINEERING DESIGN				
SUBMITTED: C. T. BARNER, APPROVED: R. M. HODGINS				
KNOXVILLE 12-6-74 88E 50W1733-EI-1 R3				

THIS DRAWING IS UNDER