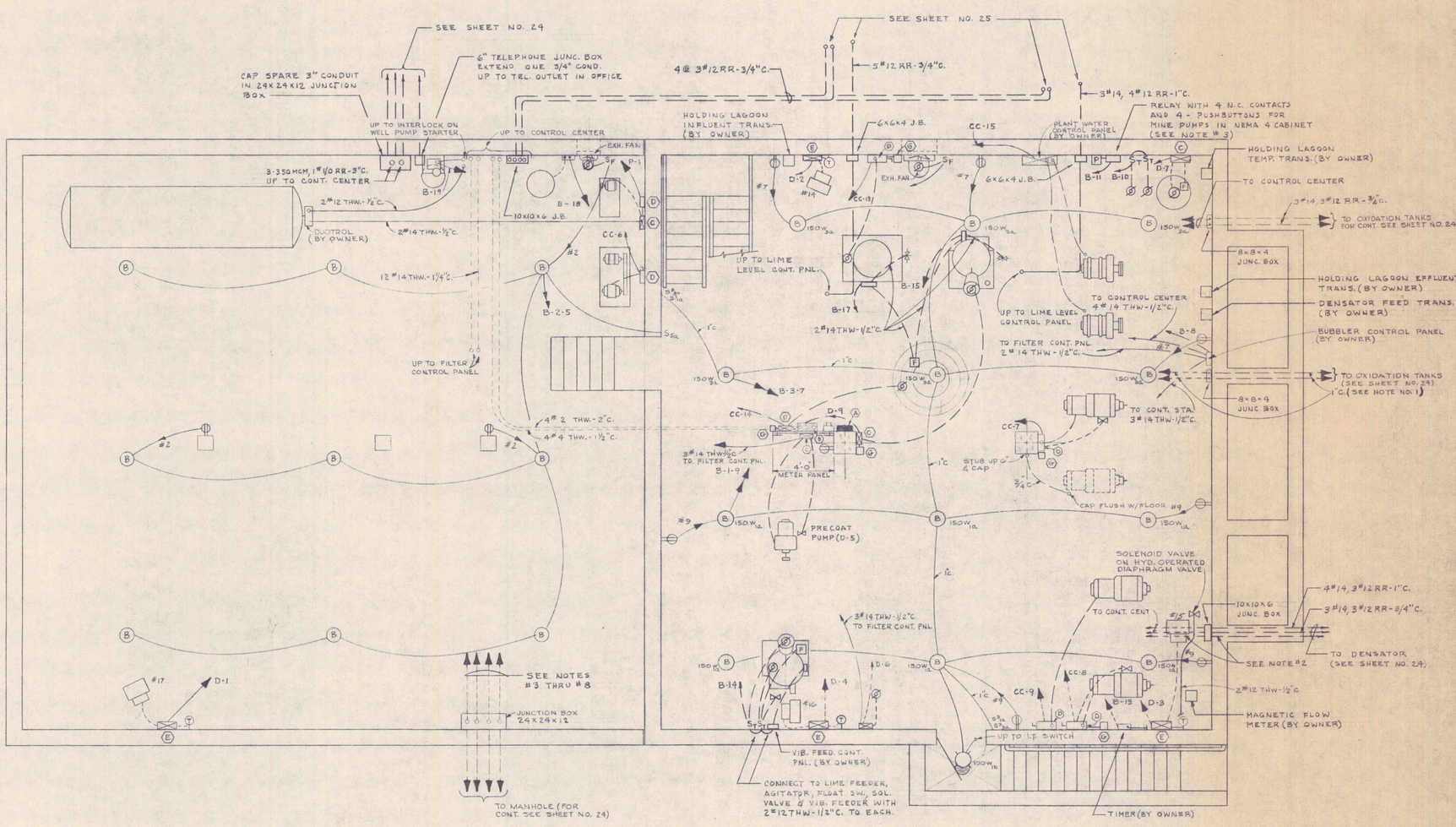
LIGHTING PANEL B - 120/208V-3 PHASE-4 WIRE

CIRCUIT NO.	DESCRIPTION	BREAKER	FEEDER
1	LIGHTS, BSM'T., NORTH END	20A-SP	2#12 THW-½"C.
2	RECEPTACLES, EXHAUST FAN		
3	LIGHTS, BSM'T., SOUTH END		
4	LIGHTS, SLUDGE PUMPING STATION		2#10 RR -¾"C.
5	LIGHTS		2#12 THW-½"C.
6	EXHAUST FAN	30A-SP	
7	RECP'T., BSM'T., SOUTH	20A-SP	
8	BUBBLER CONTROL PANEL		
9	RECP'T., BSM'T., NORTH		
10	SAMPLING PUMPS		
11	RELAY PANEL (MINE PUMPS)		
12	SUMP PUMP - SLUDGE PUMPING STATION		2#10 RR-¾"C.
13	TIMER FOR DENSATOR SLUDGE BLOW-OFF		2#12 THW-½"C.
14	PRECOAT FEEDER & AGITATOR	30A-SP	
15	HYDRATED LIME FEEDER CONTROL PANEL	20A-SP	
16	PLANT WATER SUMP (LTS & METERS)		2#10 RR-¾"C.
17	QUICKLIME FEEDER CONTROL PANEL		2#12 THW-½"C.
18	HOT WATER HEATER	30A-DP	3#10 THW-¾"C.
19	HYPOCHLORINATOR MOTOR	20A-SP	2#12 THW-½"C.
20	V13. FEEDER (LIME NEUT. UNIT)	20A-DP	2#10 RR-¾"C.
21	SPARE	20A-SP	
22	"		
23	"		
24-26	"		



HEATER SCHEDULE

MARK NO.	LOCATION	WATTS	VOLTS	BTU	TYPE	AMPS	PHASE	MOTOR VOLTS	HP
1	OFFICE & MEETING RM.	5,000	277	17,100	CASINCT CEILING	19	1	277	1/80
2	LABORATORY	5,000	277	17,100	CABINET CEILING	19	1	277	1/80
3	INSTRUMENT RM.	5,000	480	17,060	UNIT HEATER	9	3	120	1/80
4	LIME ROOM	5,000	480	17,060	"	9	3	120	1/80
5	SAMPLING ROOM	6,000	480	20,500	"	7.2	3	120	1/40
6	KITCHEN	1,250	120	4,269	WALL BUILT-IN	10.5	1	120	1/80
7	TOILET	1,500	120	5,122	WALL BUILT	13.2	1	120	1/80
8	SLEEPING RM.	5,000	277	17,060	CABINET WALL	19	1	277	1/80
9,10,11, 12,13	FILTER RM.	6,000	480	20,472	UNIT HEATER	7.2	3	120	1/40
14,15,16 17	BASEMENT	5,000	480	17,060	UNIT HEATER	9.0	3	120	1/80
18	SLUDGE PUMPING STA.1	3,000	480	10,236	"	5.4	3	120	1/80
19	PROCTOR NO. 1	5,000	480	17,060	"	9.0	3	120	1/80
20	PROCTOR NO. 2	6,000	480	30,798	"	11.4	3	120	1/40
21	BENNETTS BRANCH	5,000	480	20,472	"	9.0	3	120	1/80

BASEMENT PLAN

GENERAL NOTES

1. 2#14, 3/c CABLE-1"C., 3/c CABLE-1"C. AND SPECIAL CABLE-1"C. TO INSTRUMENT PANEL. SPECIAL CABLE AND 3/c CABLE (FURNISHED BY OWNER) SHALL BE INSTALLED UNDER THIS CONTRACT.
2. 2#14 RR-½"C., SPECIAL CABLE-½"C., 2#14 RR, 3/c CABLE-1"C., AND SPECIAL CABLE-1"C. TO INSTRUMENT PANE. SPECIAL CABLE AND 3/c CABLE (FURNISHED BY OWNER) SHALL BE INSTALLED UNDER THIS CONTRACT.
3. 16#14 RR-1¼"C. TO RELAY CABINET UNDER BASE BID AND ALTERNATE 'A' AND 'B'. TAPE ENDS OF FOUR LEADS IN RELAY CABINET UNDER ALTERNATE 'A' ONLY. TAPE ENDS OF EIGHT LEADS IN RELAY CABINET UNDER ALTERNATE 'B' ONLY. 4#14 RR-½"C. TO RELAY CABINET UNDER ALTERNATE 'C' ONLY.
4. EXTEND THE FOLLOWING CIRCUITS TO THE CONTROL CENTER:
   - A. 4#4 RR-1½"C.-PROCTOR NO.1 FEEDER
   - B. 4#4 RR-1½"C.-GARAGE FEEDER
   - C. 3#14, 3#12 RR-¾"C. - SLUDGE PUMP NO.1
   - D. 3#14, 3#8 RR-1"C. - DRUM DRIVE
   - E. 2#14, 3#10 RR-1"C.-WELL PUMP
5. EXTEND CIRCUIT NO. D-8 TO PANEL D.
6. EXTEND CIRCUIT NO. B-4-12 (3#10 RR), NO. B-16 (2#10 RR) AND NO. B-20 (2#10 RR) IN A 1"C. TO PANEL B.
7. EXTEND PH WIRING-1"C. AND 4#14 RR-½"C. TO INSTRUMENT PANEL. EXTEND 2#14 RR-½"C. TO PLANT WATER CONTROL PANEL.
8. 4#2 RR-2"C. (PROCTOR NO.2 & BENNETT BRANCH FEEDER) TO CONTROL CENTER UNDER BASE BID AND ALTERNATE 'A' AND 'B'. OMIT CONDUIT AND FEEDER UNDER ALTERNATE 'C' ONLY. CIRCUIT BREAKER TO BECOME SPARE UNDER ALTERNATE 'C' ONLY.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL CECIL MALLORY FEPPERMAN ENGINEER No. 6790

Cecil M. Fepperman

DRAWN	E.M.M.
TRACED	D.S.
CHECKED	C.K.M.
APPROVED	G.G.B.
APPROVED	

GANNETT FLEMING CORDDRY & CARPENTER, INC.
ENGINEERS
600 N. SECOND ST. HARRISBURG, PENNA.

JOB No. 4590
SCALE 1/4"=1'-0"
DATE JUNE 1967

THE PENNSYLVANIA STATE UNIVERSITY
CONSTRUCTION OF
A MINE DRAINAGE TREATMENT PLANT
HUSTON TOWNSHIP, CLEARFIELD CO., PA.

CONTROL BUILDING BASEMENT ELECTRICAL

SHEET No. 26
DRAWING No. I-17535