PANEL 74EQD

120/208V-3Ø-4W SURFACE CIRCUIT BREAKER PANELBOARD WITH 400A MAIN BUS

CIRCUIT Nº	TRIP AMPS	POLES	I.C. RATING (AMPS)	VOLT-AMPERES ØA	VOLT-AMPERES ØB	VOLT-AMPERES ØC	REMARKS
1	100	3	18,000	8900	8900	10500	PANEL 74EQ1 SOLID STATE *
2	100	3	18,000	9450	10800	10400	PANEL 74EQ2 SOLID STATE *
3	100	3	18,000	—	—	—	SPACE
4	20	3	18,000	1000	1000	1000	FIRE ALARM COMPRESSOR
5	20	1	18,000	1400	—	—	RECEPTACLES
6	20	1	18,000	1400	—	—	RECEPTACLES
7	20	1	18,000	—	1400	—	RECEPTACLES
8	20	1	18,000	—	1400	—	RECEPTACLES
9	20	1	18,000	—	—	1400	LIGHTS & RECEPTACLES
10	20	1	18,000	—	—	1400	RECEPTACLES
11	20	1	18,000	0	—	—	LIGHTS & RECEPTACLES
12	200	3	25000	9000	9000	9000	ELEVATOR SOLID STATE **
13	—	—	18,000	—	0	—	SPACE
14	—	—	18,000	—	0	—	SPACE
TOTAL LOAD (KVA)				31.2	32.5	33.7	

TOTAL AVAILABLE CONNECTED LOAD (KVA) = 97.4
TOTAL AVAILABLE CONNECTED LOAD (AMPS) = 270A
TOTAL DEMAND LOAD (AMPS) = 210A
* SET SHORT TIME AT 10X CURRENT RATING
** SET SHORT TIME AT 5X CURRENT RATING
} BASED ON WESTINGHOUSE "SELTRONIC" BREAKER.

PANEL 74LSD

120/208V-3Ø-4W SURFACE CIRCUIT BREAKER PANELBOARD WITH 225A MAIN BUS

CIRCUIT Nº	TRIP AMPS	POLES	I.C. RATING (AMPS)	VOLT-AMPERES ØA	VOLT-AMPERES ØB	VOLT-AMPERES ØC	REMARKS
1	100	3	18,000	7600	8000	8000	PANEL 74LS1 SOLID STATE *
2	100	3	18,000	7400	7500	8000	PANEL 74LS2 SOLID STATE *
3	100	3	18,000	7800	7500	8000	PANEL 74LS3 SOLID STATE *
4	—	—	18,000	6600	6900	7200	PANEL 74LS4 SOLID STATE *
5	—	—	18,000	0	0	0	SPACE
6	—	—	18,000	0	0	0	SPACE
TOTAL LOAD (KVA)				29.4	29.9	31.2	

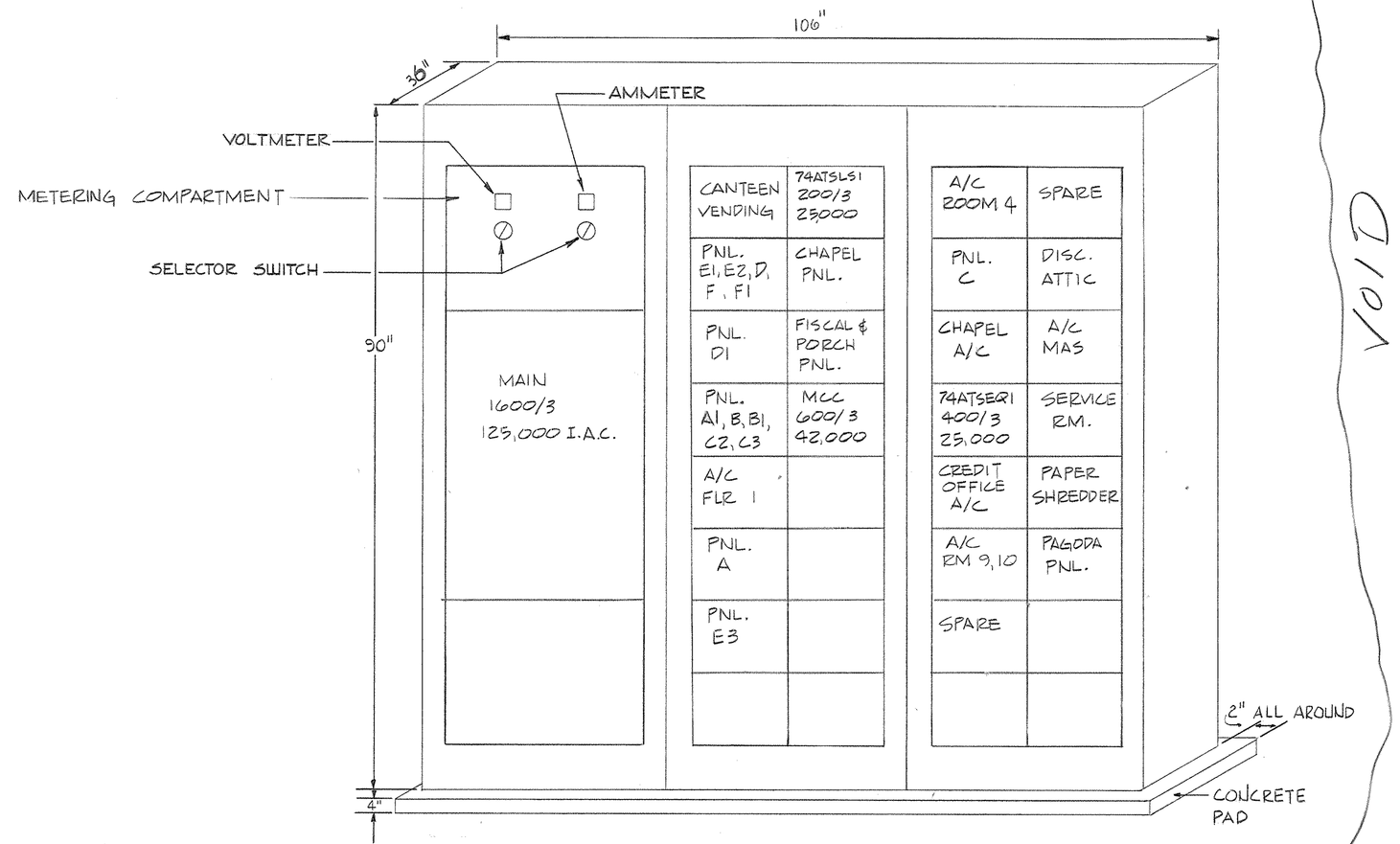
TOTAL AVAILABLE CONNECTED LOAD (KVA) = 90.5
TOTAL AVAILABLE CONNECTED LOAD (AMPS) = 231.1A
TOTAL DEMAND LOAD (AMPS) = 190 A.
* SET SHORT TIME AT 10X CURRENT RATING (BASED ON WESTINGHOUSE "SELTRONIC" BKRS.

PANEL 74EQ1

120/208V-3Ø-4W SURFACE CIRCUIT BREAKER PANELBOARD WITH 100A MAIN BUS

CIRCUIT Nº	TRIP AMPS	POLES	I.C. RATING (AMPS)	VOLT-AMPERES ØA	VOLT-AMPERES ØB	VOLT-AMPERES ØC	REMARKS
1	20	1	10,000	75	—	—	LIGHTS
2	20	1	10,000	1400	—	—	LIGHTS & RECEPTACLES
3	20	1	10,000	—	700	—	RECEPTACLE
4	20	1	10,000	—	50	—	LIGHTS
5	20	1	10,000	—	—	1400	RECEPTACLES
6	20	1	10,000	—	—	1400	RECEPTACLES
7	20	1	10,000	1400	—	—	RECEPTACLES
8	20	1	10,000	50	—	—	LIGHTS
9	20	1	10,000	—	1400	—	LIGHTS & RECEPTACLES - PENTHOUSE
10	20	1	10,000	—	700	—	RECEPTACLES
11	20	1	10,000	—	—	1000	SPARE
12	20	1	10,000	—	—	700	RECEPTACLES
13	20	1	10,000	1000	—	—	SPARE
14	20	1	10,000	1000	—	—	SPARE
15	20	1	10,000	—	1000	—	SPARE
16	20	1	10,000	—	1000	—	SPARE
17	20	1	10,000	—	—	1000	SPARE
18	20	1	10,000	—	—	1000	SPACE
19	20	1	10,000	1000	—	—	SPACE
20	20	1	10,000	1000	—	—	SPACE
21	20	1	10,000	—	1000	—	SPACE
22	20	1	10,000	—	1000	—	SPACE
23	20	1	10,000	—	—	1000	SPACE
24	20	1	10,000	1000	—	—	SPACE
26	20	1	10,000	1000	—	—	SPACE
27	20	1	10,000	—	1000	—	SPACE
28	20	1	10,000	—	1000	—	SPACE
29	20	1	10,000	—	—	1000	SPACE
30	20	1	10,000	—	—	1000	SPACE
TOTAL LOAD (KVA)				8.9	8.9	10.5	

TOTAL AVAILABLE CONNECTED LOAD (KVA) = 28.3
TOTAL AVAILABLE CONNECTED LOAD (AMPS) = 79A.
TOTAL DEMAND LOAD (AMPS) = 63A



BLDG. 74 NEW MAIN SECONDARY SWITCHBOARD 74 MSB

NO SCALE

PANEL 74LS1

120/208V-3Ø-4W SURFACE CIRCUIT BREAKER PANELBOARD WITH 100A MAIN BUS

CIRCUIT Nº	TRIP AMPS	POLES	I.C. RATING (AMPS)	VOLT-AMPERES ØA	VOLT-AMPERES ØB	VOLT-AMPERES ØC	REMARKS
1	20	1	10,000	800	—	—	LIGHTS
2	20	1	10,000	800	—	—	LIGHTS
3	20	1	10,000	—	1000	—	SPARE
4	20	1	10,000	—	1000	—	SPARE
5	20	1	10,000	—	—	1000	SPARE
6	20	1	10,000	—	—	1000	SPARE
7	20	1	10,000	1000	—	—	SPARE
8	20	1	10,000	1000	—	—	SPARE
9	20	1	10,000	—	1000	—	SPARE
10	20	1	10,000	—	1000	—	SPARE
11	20	1	10,000	—	—	1000	SPARE
12	20	1	10,000	—	—	1000	SPARE
13	20	1	10,000	1000	—	—	SPACE
14	20	1	10,000	1000	—	—	SPACE
15	20	1	10,000	—	1000	—	SPACE
16	20	1	10,000	—	1000	—	SPACE
17	20	1	10,000	—	—	1000	SPACE
18	20	1	10,000	—	—	1000	SPACE
19	20	1	10,000	1000	—	—	SPACE
20	20	1	10,000	1000	—	—	SPACE
21	20	1	10,000	—	1000	—	SPACE
22	20	1	10,000	—	1000	—	SPACE
23	20	1	10,000	—	—	1000	SPACE
24	20	1	10,000	—	—	1000	SPACE
TOTAL LOAD (KVA)				7.6	8.0	8.0	

TOTAL AVAILABLE CONNECTED LOAD (KVA) = 23.6
TOTAL AVAILABLE CONNECTED LOAD (AMPS) = 65A.
TOTAL DEMAND LOAD (AMPS) = 50A.

VOID

BLDG. 74 MAIN SECONDARY SWITCHBOARD '74 MSB'

120/208 VOLTS - 3 PHASE - 4 WIRE
PROVIDE 1600 AMP BUS, BRACED FOR 42,000 I.A.C.

DESIG.	I.C. RATING	TRIP AMPS	POLES	FOR	
①	125000	ΔΔ 1600	3	MAIN *	
②	18,000	ΔΔ 30	3	Δ EXISTING EQUIPMENT	EX. LOADS ARE 1Ø
③	18000	100	3	Δ EXISTING EQUIPMENT ***	
④	18000	—	3	SPACE	
⑤	25,000	ΔΔ 225	3	Δ EXISTING EQUIPMENT ***	
⑥	25,000	—	3	SPACE	
⑦	42000	ΔΔ 400	3	Δ EXISTING EQUIPMENT ***	
⑧	18000	70	3	CREDIT OFFICE A/C	
⑨	18000	70	3	Δ EXISTING EQUIPMENT	
⑩	18000	100	3	ROOM 4 A/C ***	
⑪	18000	—	3	SPACE	
⑫	25000	—	3	SPACE	
⑬	25000	200	3	CHAPEL ***	
⑭	25000	200	3	Δ EXISTING EQUIPMENT ***	
⑮	18000	30	3	Δ AIR CONDITIONING	
⑯	42000	250	3	Δ AIR CONDITIONING ***	
⑰	42000	600	3	MOTOR CONTROL CENTER ***	
⑱	25000	200	3	A.T.S. '74ATSLS-1' **	
⑲	25000	400	3	A.T.S. '74ATSEQ-1' **	
㉒	25000	—	3	SPACE	
㉑	25000	—	3	SPACE	

ALL CIRCUIT BREAKER IN '74 MSB' SHALL BE SOLID STATE, EXCEPT ②, ⑧, ⑨ & ⑱ WHICH SHALL BE MOLDED CASE

Δ ELECTRICAL CONTRACTOR SHALL VERIFY WHAT LOADS ARE CONNECTED TO THESE CIRCUIT BREAKERS & INSTALL LABELS FOR SAME IN DIRECTORY

ΔΔ CONNECT 100A & 30A. CIRCUIT BREAKERS ACROSS PHASES A & B: CONNECT 225A. CIRCUIT BREAKER ACROSS PHASES B & C: CONNECT 400A. CIRCUIT BREAKER ACROSS PHASES C & A

* SET SHORT TIME AT 2.5 x CURRENT RATING
** SET SHORT TIME AT 5x CURRENT RATING
*** SHORT TIME SETTINGS TO BE VERIFIED IN FIELD.
SHORT TIME SETTINGS BASED ON WESTINGHOUSE "SELTRONIC" BKRS.

VOID

NO.	DATE	DESCRIPTION
	9-30-81	RECORD DRAWINGS

REVISIONS:

SHEET TITLE: SCHEDULES & DETAILS

BLDG. NO. 74

PROJECT TITLE: EMERGENCY ELECTRICAL POWER SYSTEM

JOB Nº 7793

DRAWN | CHECKED | DATE 6-25-79

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL TERRY R. YEAGER ENGINEER No. 18942-E

BARTON ASSOCIATES, INC.
CONSULTING ENGINEERS
415 NORWAY STREET
YORK, PENNA. 17403

APPROVED: PROJECT DIRECTOR

DRAWING NUMBER 74-E5

DWG OF

PROJECT NUMBER 638 - 049

VETERANS ADMINISTRATION

LOCATION VAH, SALEM, VA.

THREE INCHES EQUALS ONE FOOT (0, 1)
ONE AND ONE HALF INCHES EQUALS ONE FOOT (0, 1, 2)
ONE INCH EQUALS ONE FOOT (0, 1, 2, 3)
THREE QUARTER INCH EQUALS ONE FOOT (0, 1, 2, 3, 4)
ONE HALF INCH EQUALS ONE FOOT (0, 1, 2, 3, 4, 5, 6)
THREE EIGHTH INCH EQUALS ONE FOOT (2, 4, 6, 8, 10)
ONE QUARTER INCH EQUALS ONE FOOT (2, 4, 6, 8, 10, 12, 14)
ONE EIGHTH INCH EQUALS ONE FOOT (2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26)