



SCHEDULE OF ENERGY METERS					
NUMBER	LOAD(S) TO BE MEASURED	CT VOLTAGE	CT RATING (AMPS)	METER SERIES	NOTES
1	SWITCHBOARD SB	480V-3Ø	2000	8000	1
2	PANEL L1B	480V-3Ø	100	8000	1
3	PANEL M1B	480V-3Ø	100	8000	1
4	PANEL E1 (VA ATS-1)	480V-3Ø	100	8000	1
5	PANEL S1 (VA ATS-2)	480V-3Ø	200	8000	1
6	DOAS-2	480V-3Ø	200	8000	2
7	DOAS-3	480V-3Ø	200	8000	2
8	DWH-1	480V-3Ø	100	8000	2
9	DWH-2	480V-3Ø	100	8000	2
10	RHPU-3	480V-3Ø	100	8000	2
11	PANEL PB	208V-3Ø	400	4100	3
12	PANEL MPB	208V-3Ø	100	4100	3
13	PANEL K	208V-3Ø	200	4100	3
14	PANEL L1B	480V-3Ø	100	8000	4
15	PANEL M1B	480V-3Ø	100	8000	4
16	PANEL L2B	480V-3Ø	100	8000	4
17	PANEL M2B	480V-3Ø	400	8000	4
18	PANEL MP1B	208V-3Ø	100	8000	5
19	PANEL P1B	208V-3Ø	200	8000	5
20	PANEL MP1A	208V-3Ø	100	8000	5
21	PANEL P1A	208V-3Ø	200	8000	5
22	PANEL MP2B	208V-3Ø	200	8000	5
23	PANEL P2B	208V-3Ø	200	8000	5
24	PANEL P2A	208V-3Ø	200	8000	5
25	PANEL MP2A	208V-3Ø	100	8000	5
26	PANEL LC	480V-3Ø	100	4100	6
27	PANEL MC	480V-3Ø	200	4100	6
28	PANEL MPC	208V-3Ø	400	4100	7
29	PANEL PC	208V-3Ø	100	4100	7

NOTES:
1. LOCATE METER NEAR SWITCHBOARD SB. PROVIDE CT CONNECTIONS WITHIN SWITCHBOARD SB.
2. LOCATE METER NEAR SWITCHBOARD SB. PROVIDE CT CONNECTIONS WITHIN SWITCHBOARD SB.
3. LOCATE METER NEAR DISTRIBUTION PANEL DPPB. PROVIDE CT CONNECTIONS WITHIN DISTRIBUTION PANEL DPPB.
4. LOCATE METER NEAR DISTRIBUTION PANEL DPPB. PROVIDE CT CONNECTIONS WITHIN DISTRIBUTION PANEL DPPB.
5. LOCATE METER NEAR DISTRIBUTION PANEL DPP1B. PROVIDE CT CONNECTIONS WITHIN DISTRIBUTION PANEL DPP1B.
6. LOCATE METER NEAR DISTRIBUTION PANEL DPC. PROVIDE CT CONNECTIONS WITHIN DISTRIBUTION PANEL DPC.
7. LOCATE METER NEAR PANEL MPC. PROVIDE CT CONNECTIONS WITHIN DISTRIBUTION PANEL MPC.

The diagram illustrates a typical single-line power distribution system for a building, showing connections between various electrical equipment across two floors.

- FIRST FLOOR:**
 - Four sets of "CURRENT TRANSFORMERS TO DISTRIBUTION PANEL MPC" feed into "SINGLE-METER UNIT"s.
 - A "MULTI-METER UNIT" is connected to a busbar labeled "DPB-9".
 - Three more "SINGLE-METER UNIT"s are connected to a busbar labeled "DPB-4".
 - A "SWITCHGEAR" unit labeled "SB-14" is shown.
- SECOND FLOOR:**
 - Four sets of "CURRENT TRANSFORMERS TO DISTRIBUTION PANEL DPC" feed into "SINGLE-METER UNIT"s.
 - A "MULTI-METER UNIT" is connected to a busbar labeled "DPB-6".
 - Three more "SINGLE-METER UNIT"s are connected to a busbar labeled "DPB-8".
 - A "SWITCHGEAR" unit labeled "SB-14" is shown.
 - An "ENERGY METER GATEWAY" is connected to a "BUILDING LAN NETWORK" and "DATA CABLEING TO DATA OUTLET".
 - A "PULSE MODULE" is connected to the "ENERGY METER GATEWAY".
- Labels and Notes:**
 - "PROVIDE UNDER ADDITION ALTERNATE" points to the top section of the diagram.
 - "TYPICAL OF 2" is noted near several meter units.
 - Busbars are labeled "MPIC-37", "DPB-9", "DPB-4", "DPB-6", and "DPB-8".
 - Switchgear units are labeled "SB-14".

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E601
- RISER DIAGRAM**
ENERGY METER NETWORK
SCALE: NOT TO SCALE

- DETAIL**
3A
E601
PLACARD AT SWITCHBOARD
NOT TO SCALE

- 3B
E601
- DETAIL**
PLACARD AT SWITCHBOARD
NOT TO SCALE

- PROVIDE REMOTE INCOMING FROM GENERATOR CONTROL PANEL TO GENERATOR REMOTE ALARM ANNUNCIATOR PANEL. WIRING SHALL BE AS PER MANUFACTURER'S REQUIREMENTS AND IEC STANDARDS FOR GENERATOR REMOTE ALARM ANNUNCIATOR PANEL IN BUILDING SERVICE ENCLOSURE.
- PROVIDE 250A GENERATOR DOCKING SWITCH IN NEUMA TYPE 3R ENCLOSED WITH 100% INTERLOCKED WITH 10-POLE CIRCUIT BREAKERS, WORKKEY INTERLOCKED FOR CONNECTIONS TO ATS-1 AND PORTABLE MOUNTED ON THE SAME RACK. PROVIDE 250A GENERATOR DOCKING SWITCH FOR 250A. PROVIDE SIGN ON FRONT OF GENERATOR DOCKING STATION TO READ "GENERATOR DOCKING STATION". PROVIDE 250V SWITCH (ATS-1) IN ELECTRICAL ROOM, 27/48VDC, 3-PHASE, 4-WIRE.
- PROVIDE 4 #50xAL, #4 GRNDING IN CONDUIT FROM 250-250A ELECTRONIC TRIP CIRCUIT BREAKER AT GENERATOR SERVING EMERGENCY LIFE SAFETY. PROVIDE GENERATOR DOCKING STATION SIZED FOR LOAD BANK CONNECTION
- PROVIDE 4P-100A AUTOMATIC TRANSFER SWITCH (ATS)-1 TO SERVE ALL 100W LIFESAFETY LOADS. PROVIDE 100W LIFESAFETY LOADS 100% WITHSTAND AND CLOSING RATING OF 69kVAC. PROVIDE NAMEPLATE ON THE FACE OF ITS 100W LIFESAFETY LOADS.
- PROVIDE 4P-250A AUTOMATIC TRANSFER SWITCH (ATS)-2 TO SERVE STANDBY LOADS. ITS SHALL HAVE A MINIMUM 100L WTHSTAND AND CLOSING RATING OF 69K VAC. PROVIDE NAMEPLATE ON FRONT OF ITS TO READ "STANDBY ATS"
- PROVIDE 4 #4 + .8B GRNDING IN CONDUIT. REFER TO DETAIL 4#501 FOR DISCRETE LIFE SAFETY.
- PROVIDE 4 #4B + .8B GRNDING IN CONDUIT. REFER TO DETAIL 4#501 FOR GENERATOR OUTBACK.
- PROVIDE 3P-100A/60V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL IN NEUMA TYPE 1 ENCLOSURE TO SERVE GENERATOR EMERGENCY LIFE SAFETY LOAD.
- PROVIDE 3P-100A/60V NON-FUSED ENCLOSED SWITCH WITH NEUTRAL IN NEUMA TYPE 1 ENCLOSURE TO SERVE GENERATOR STANDBY BY LOADS.
- PROVIDE 3P-100A/60V FUSED ENCLOSED SWITCH WITH NEUTRAL IN NEUMA TYPE 1 ENCLOSURE. PROVIDE WITH 250A CURRENT-LIMITING FUSES.
- PROVIDE 3P-100A/60V FUSED ENCLOSED SWITCH WITH NEUTRAL IN NEUMA TYPE 1 ENCLOSURE. PROVIDE WITH 250A CURRENT-LIMITING FUSES.
- REFER TO DETAIL 1#503 FOR GROUNDING CONDITIONS AT SWITCHBOARD.

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