## SWITCHBOARD MPA

277/480 VOLTS | 3 ϕ 4 W | 800 A AMP MCB | 800 A AMP BUS | 65000 A.I.C. RATING | SURFACE MOUNTED

| CKT NO. | TRIP/ POLES | DESCRIPTION | DEMAND LOAD VA | COMMENTS |
|---|---|---|---|---|
| 1 | 125/3 | PANEL RPA via TA | 49020 | |
| 2 | 70/3 | PANEL RPB via TB | 33400 | |
| 3 | 50/3 | PANEL HPC | 163689 | |
| 4 | 250/3 | PANEL HPA | 119731 | |
| 5 | 200/3 | X-RAY MACHINE | 126000 | SHUNT TRIP OPERATOR |
| 6 | 30/3 | LIFT STATION | 3732 | |
| 7 | 20/3 | DOCK LIFT | 4851 | |
| 8 | 125/3 | CH-1, CHILLER | 76500 | |
| 9 | 100/3 | SPARE | 0 | |
| 10 | 100/3 | SPARE | 0 | |
| 10 | 60/3 | TVSS | 0 | INTEGRAL, BUSS MOUNTED, 65KA |

| Load Category | Connected Load (KVA) x | Demand Factor = | Demand Load (KVA) |
|---|---|---|---|
| Appliance | 4.1 | 0.75 | 3.1 |
| Cooling | 76.5 | 1.00 | 76.5 |
| Lighting | 23.2 | 1.25 | 29.0 |
| Kitchen Equipment – Non-Dwelling Unit | 6.7 | 0.65 | 4.4 |
| Motors | 190.4 | 1.00 | 190.4 |
| Motors (Largest) | 26.5 | 1.25 | 33.1 |
| Receptacles (0 – 10 KVA) | 10.0 | 1.00 | 10.0 |
| Receptacles (Over 10 KVA) | 303.2 | 0.50 | 151.6 |

TOTAL CONN. LOAD: 640.6 KVA
TOTAL DEMAND LOAD: 498.1 KVA
TOTAL DEMAND LOAD: 599.1 AMPS
SPARE CAPACITY: 200.9 AMPS

## PANEL HPA

| | | | |
|---|---|---|---|
| VOLTAGE (L–N): | | ENCLOSURE TYPE: | NEMA 1 |
| VOLTAGE (L–L): | 480 | MOUNTING: | SURFACE |
| PHASES, WIRES: | 3 ϕ 3 W | AIC RATING (A): | 22000 |
| MINIMUM BUS CAPACITY (A): | 225 A | NOTES: | ---- |
| MAIN O.C. DEVICE (A): | 225 A | | |

| CKT NO | DESCRIPTION | TRIP AMPS | POLE | PHASE LOADS (VA) A | | B | | C | | POLE | TRIP AMPS | DESCRIPTION | CKT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5 | COOLING TOWER FAN | 70 | 3 | 8820 | 746 | | | | | 3 | 20 | P–1 | 2,4,6 |
| | | | | | | 8820 | 746 | | | | | | |
| | | | | | | | | 8820 | 746 | | | | |
| 7,9,11 | P–2 | 20 | 3 | 746 | 746 | | | | | 3 | 20 | P–3 | 8,10,12 |
| | | | | | | 746 | 746 | | | | | | |
| | | | | | | | | 746 | 746 | | | | |
| 13,15,17 | PANEL WSHP | 150 | 3 | 41300 | 0 | | | | | 3 | 20 | P–4 (ALTERNATE) | 14,16,18 |
| | | | | | | 41300 | 0 | | | | | | |
| | | | | | | | | 41300 | 0 | | | | |
| 19,21,23 | CT–1 SPRAY PUMP | 20 | 3 | 150 | 667 | | | | | 3 | 20 | CT–1 BASIN HEATER | 20,22,24 |
| | | | | | | 150 | 667 | | | | | | |
| | | | | | | | | 150 | 667 | | | | |
| 19,21,23 | SPARE | 20 | 3 | 0 | 0 | | | | | 3 | 20 | SPARE | 20,22,24 |
| | | | | | | 0 | 0 | | | | | | |
| | | | | | | | | 0 | 0 | | | | |
| | | | | CONNECTED LOAD PHASE TOTALS (VA) | | | | | | | | | |
| | | | | 52358 | | 52358 | | 52358 | | | | | |

| | CONNECTED LOAD (KVA) | DEMAND FACTOR | DEMAND LOAD (KVA) |
|---|---|---|---|
| Motors | 130.6 | 1.00 | 130.6 |
| Motors (Largest) | 26.5 | 1.25 | 33.1 |
| TOTAL: | 157.1 | | 163.7 |
| LOAD (AMPS): | 188.9 | | 196.9 |

DEMAND LOAD 163.7 KVA
SPARE CAPACITY 23.4 KVA
SPARE CAPACITY 28.1 AMPS
SPARE CAPACITY 12 %
PHASE BALANCE
A TO B 100 %
B TO C 100 %
C TO A 100 %

## PANEL LPE

| | | | |
|---|---|---|---|
| VOLTAGE (L–N): | 277 | ENCLOSURE TYPE: | NEMA 1 |
| VOLTAGE (L–L): | 480 | MOUNTING: | SURFACE |
| PHASES, WIRES: | 3 ϕ 4 W | AIC RATING (A): | 22000 |
| MINIMUM BUS CAPACITY (A): | 60 A | NOTES: | ---- |
| MAIN O.C. DEVICE (A): | 60 A | | |

| CKT NO | DESCRIPTION | TRIP AMPS | POLE | PHASE LOADS (VA) A | | B | | C | | POLE | TRIP AMPS | DESCRIPTION | CKT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LTG, CORR. | 20 | 1 | 2152 | 1212 | | | | | 1 | 20 | LTG, CORR. | 2 |
| 3 | LTG, ROOMS A05–A15 | 20 | 1 | | | 1763 | 1868 | | | 1 | 20 | LTG, ROOMS A04 & A18–A27 | 4 |
| 5 | LGT, INFO DESK, VEST. | 20 | 1 | | | | | 2438 | 2322 | 1 | 20 | LTG, B01–B23, & B25 | 6 |
| 7 | LTG, B26–B39, & B24 | 20 | 1 | 1913 | 3214 | | | | | 1 | 20 | LTG, C15–C45 | 8 |
| 9 | LTG, C01–C15 | 20 | 1 | | | 1996 | 2734 | | | 1 | 20 | LTG, AREA D | 10 |
| 11 | LTG, CANOPY | 20 | 1 | | | | | 1300 | 0 | 1 | 20 | SPARE | 12 |
| 13 | SPARE | 20 | 1 | 0 | 0 | | | | | 1 | 20 | SPARE | 14 |
| 15 | SPARE | 20 | 1 | | | 0 | 0 | | | 1 | 20 | SPARE | 16 |
| 17 | SPARE | 20 | 1 | | | | | 0 | 0 | 1 | 20 | SPARE | 18 |
| 19 | SPARE | 20 | 1 | 0 | 0 | | | | | 1 | 20 | SPARE | 20 |
| 21 | SPARE | 20 | 1 | | | 0 | 0 | | | 1 | 20 | SPARE | 22 |
| 23 | SPARE | 20 | 1 | | | | | 0 | 0 | 1 | 20 | SPARE | 24 |
| | | | | CONNECTED LOAD PHASE TOTALS (VA) | | | | | | | | | |
| | | | | 8491 | | 8361 | | 6060 | | | | | |

| | CONNECTED LOAD (KVA) | DEMAND FACTOR | DEMAND LOAD (KVA) |
|---|---|---|---|
| Lighting | 22.9 | 1.25 | 28.6 |
| TOTAL: | 22.9 | | 28.6 |
| LOAD (AMPS): | 27.6 | | 34.4 |

DEMAND LOAD 28.6 KVA
SPARE CAPACITY 21.2 KVA
SPARE CAPACITY 25.6 AMPS
SPARE CAPACITY 43 %
PHASE BALANCE
A TO B 98 %
B TO C 72 %
C TO A 71 %

## PANEL HPE

| | | | |
|---|---|---|---|
| VOLTAGE (L–N): | 277 | ENCLOSURE TYPE: | NEMA 1 |
| VOLTAGE (L–L): | 480 | MOUNTING: | SURFACE |
| PHASES, WIRES: | 3 ϕ 4 W | AIC RATING (A): | 22000 |
| MINIMUM BUS CAPACITY (A): | 225 A | NOTES: | ---- |
| MAIN O.C. DEVICE (A): | 225 A | | |

| CKT NO | DESCRIPTION | TRIP AMPS | POLE | PHASE LOADS (VA) A | | B | | C | | POLE | TRIP AMPS | DESCRIPTION | CKT NO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3,5 | AHU–1 | 30 | 3 | 5300 | 5300 | | | | | 3 | 30 | AHU–2 | 2,4,6 |
| | | | | | | 5300 | 5300 | | | | | | |
| | | | | | | | | 5300 | 5300 | | | | |
| 7,9,11 | CP–1 CIRC. PUMP | 20 | 3 | 4000 | 13080 | | | | | 3 | 70 | PANEL RPE via T–E | 8,10,12 |
| | | | | | | 4000 | 10750 | | | | | | |
| | | | | | | | | 4000 | 8400 | | | | |
| 13,15,17 | PANEL LPE | 60 | 3 | 8491 | 6125 | | | | | 3 | 50 | PANEL RPC via T–C | 14,16,18 |
| | | | | | | 8361 | 6950 | | | | | | |
| | | | | | | | | 6060 | 5675 | | | | |
| 19,21,23 | ERV–1 | 15 | 3 | 2771 | 2771 | | | | | 3 | 15 | ERV–2 | 20,22,24 |
| | | | | | | 2771 | 2771 | | | | | | |
| | | | | | | | | 2771 | 2771 | | | | |
| 25,27,29 | SPARE | 20 | 3 | 0 | 0 | | | | | 3 | 20 | SPARE | 26,28,30 |
| | | | | | | 0 | 0 | | | | | | |
| | | | | | | | | 0 | 0 | | | | |
| | | | | CONNECTED LOAD PHASE TOTALS (VA) | | | | | | | | | |
| | | | | 47838 | | 46203 | | 40277 | | | | | |

| | CONNECTED LOAD (KVA) | DEMAND FACTOR | DEMAND LOAD (KVA) |
|---|---|---|---|
| Appliance – Dwelling Unit | 3.7 | 0.75 | 2.8 |
| Lighting | 23.2 | 1.25 | 29.0 |
| Kitchen Equipment – Non-Dwelling Unit | 0.4 | 1.00 | 0.4 |
| Motors | 32.8 | 1.00 | 32.8 |
| Motors (Largest) | 15.9 | 1.25 | 19.9 |
| Receptacles (0 – 10 KVA) | 10.0 | 1.00 | 10.0 |
| Receptacles (Over 10 KVA) | 46.9 | 0.50 | 23.4 |
| TOTAL: | 132.9 | | 118.3 |
| LOAD (AMPS): | 159.9 | | 142.3 |

DEMAND LOAD 118.3 KVA
SPARE CAPACITY 68.7 KVA
SPARE CAPACITY 82.7 AMPS
SPARE CAPACITY 37 %
PHASE BALANCE
A TO B 97 %
B TO C 87 %
C TO A 84 %

FINAL SUBMISSION

| Revisions: | Date |
|---|---|
| | |


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Drawing Title: PANEL SCHEDULES

Approved: Project Director

Project Title: PANAMA CITY JOINT OUTPATIENT CLINIC VA GULF COAST HEALTH CARE

Location: PANAMA CITY, FLORIDA

Date: MARCH 2012 | Checked: – | Drawn: GWS

Project Number: 520-326

Building Number: –

Drawing Number: EP602

Dwg. 13 of 17

Office of Construction and Facilities Management

Department of Veterans Affairs

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