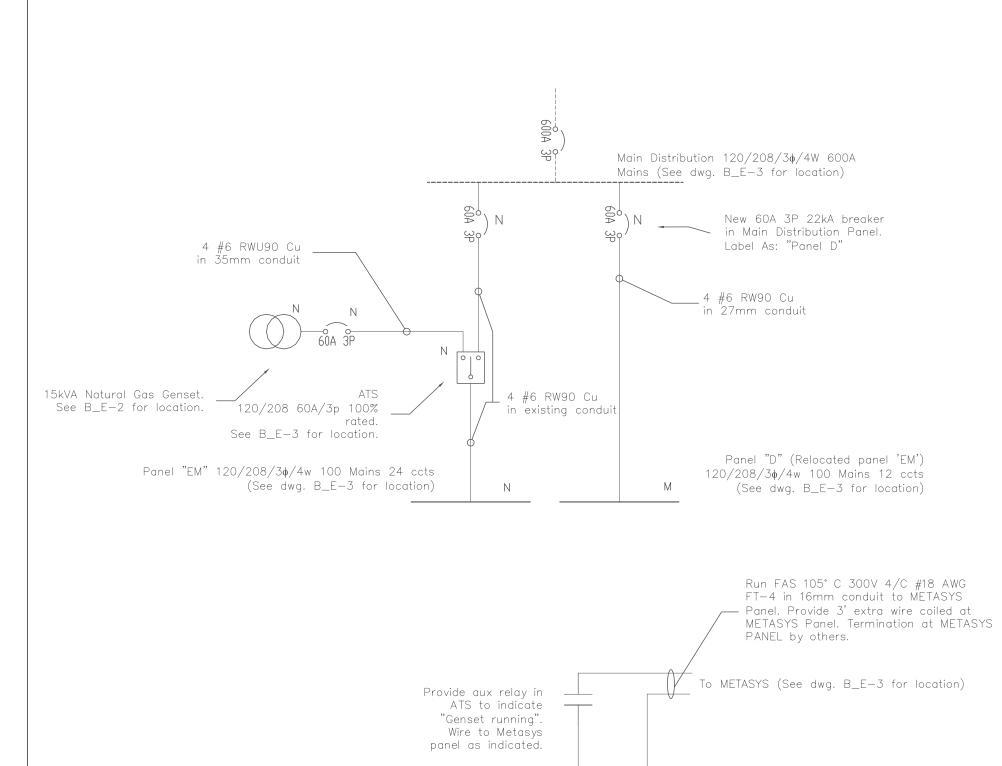


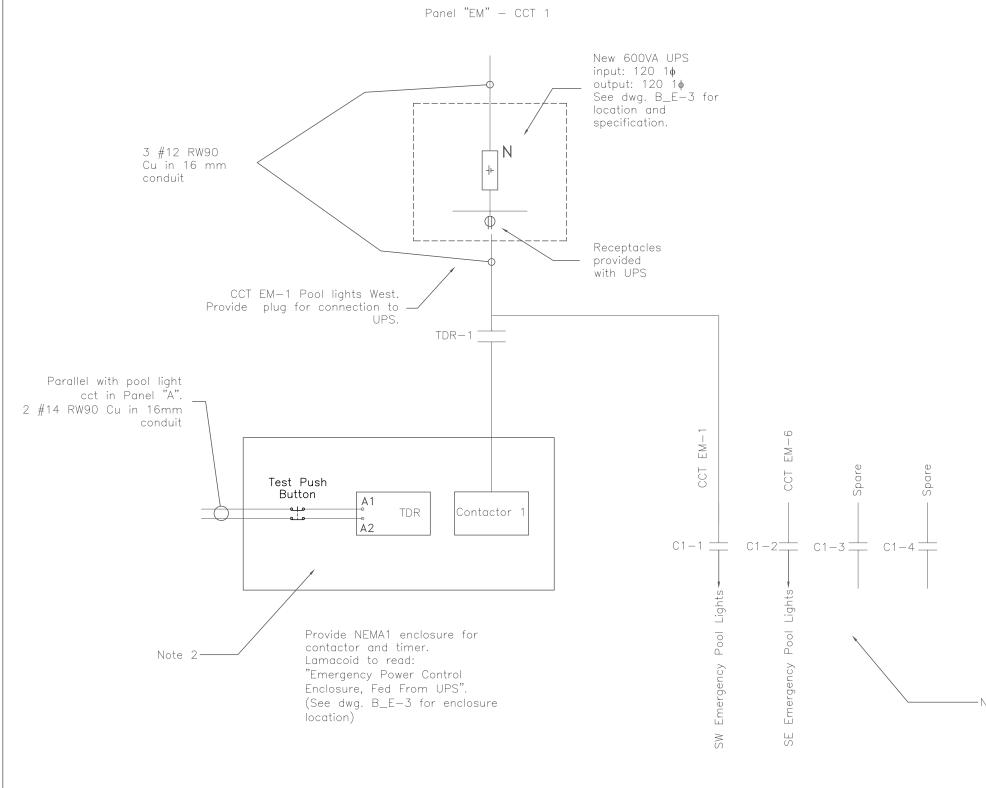
Notes:

1. 8 single pole and 1 double pole ccts to be reconnected to new panel "EM" 120/208/3\$\phi/4\$w 24ccts. 2. Transfer 11 single pole ccts from Panel "E" to to new Panel "EM". Extend wiring/conduits as required. 3. Old Panel "EM" to be reused as Panel "D". Transfer 4 ccts from deleted Panel "E". Extend wiring/conduit as

4. All Panelboard directories to be typewritten and updated as required.







1 Existing Partial Single Line

E-4 SCALE: N.T.S.

Notes:

- 1. Only cct EM-1 to be connected to UPS. CctEM-6 will be fed directly from emergency panel.
- On power outage, TDR contact will close energizing Contactor Relay and turning on Emergency Pool Lights. On restoration of power, TDR contact will "delay—on" for preset time allowing metal halide lamps to re—strike.

3. Supply and install:

Lights".

- a) Timer "Delay on make" ("ON—Delay") to monitor voltage of Pool Lighting Panel "A" (See dwg. B_E-2 for location). Timer initially set to 15 min. To be mounted in "Power Control Enclosure". Timer to be "1 SVR 430 100 R1100" — manufactured by ABB, or approved equal. Label as "Timer for Pool
- Emergency Lights". b) Contactor to be lighting contactor 20A, 4p and mounted in "Power Control Enclosure". c) Test push button with 2 N/C contacts, for pool emergency lights testing, to be mounted on "Power Control Enclosure". When pressed to open contacts and simulate power outage. Lamacoid to read: "Test of Pool Emergency

3 Pool Emergency Lights Power Supply E-4 SCALE: N.T.S.

| | New Emerg | ency | Pane | I EM | 12 | 0/ | 20 | 8 | /3ø/4 | -w 10 | OA M | ains 18kA | |
|-----------------|--|------|-------------|--------|----|----------|-----|---|--------|-------------|------|--|------|
| Note 1 | Description | ССТ | Pwr. (W) | Brk. A | А | В | : (| С | Brk. A | Pwr. (W) | ССТ | Description | Note |
| E-4 (Note 2) | Pool emergency lights West Side | 1 | 350 | 15 | | | | | 15 | 20 | 13 | Emergency water make—up for boilers | EM-4 |
| E-2 | Women's changeroom/shower emergency lights | 2 | 250 | 15 | | | | _ | 15 | 1250 | 14 | Condensate pump "P2" | EM- |
| E-5 | Men's showers and stairs emergency lights | 3 | 290 | 15 | - | | + | _ | 15 | 1250 | 15 | Condensate pump "P3" | EM- |
| E-6 | Lobby and observation rooms emergency lights | 4 | 290 | 15 | - | | | _ | 15 | 1020 | 16 | Compressor "P9" | EM- |
| E-8 | Lifeguard and first aid room emergency lights | 5 | 240 | 15 | - | \vdash | - | _ | 15 | 110 | 17 | Power supply boiler 1 | EM- |
| E-1 (Note 2) | Pool emergency lights East Side | 6 | 250 | 15 | _ | | + | - | 15 | 110 | 18 | Power supply boiler 2 | ЕМ- |
| E-12 | Chlorine room exhaust fan "F5" | 7 | 270 | 15 | - | \vdash | 1 | _ | 15 | 160 | 19 | METASYS | EM-5 |
| E-3 | Exit lights | 8 | 60 | 15 | - | | + | _ | 15 0- | 750 | 20 | Air intake fan in | EM-9 |
| E-11 E-13 | Power supply—relay transformer & Clock south pool wall | 9 | 40 | 15 | - | | + | _ | 15-2p | 750 | 21 | electrical room "F11" | |
| EM-4B | Basement emergency lights | 10 | 290 | 15 | - | \vdash | 1 | - | 15 | | 22 | Spare | |
| E-10 | Power supply pneumatic panel | 11 | 150 | 15 | - | | + | - | 15 | | 23 | Spare | |
| | Spare | 12 | | 15 | | | † | - | 15 | | 24 | Spare | |

| Power (W) | | | | | | | | | | |
|-----------|------|---|------|---|------|--|--|--|--|--|
| А | 2400 | В | 2810 | С | 2590 | | | | | |

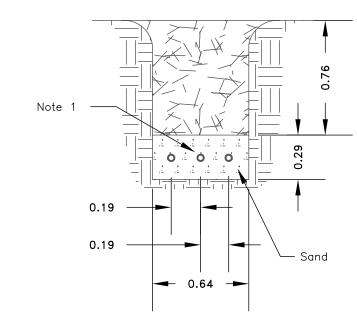
| | Panel D (Re | elocat | ed po | nel "l | ЕМ' | ") | 12 | 20/20 | 8/3ø/ | /4w 1 | 00A Mains | |
|----------------|---------------------------------------|--------|-------------|--------|-----|----|----|--------|-------------|-------|--------------------------------------|-------------------|
| Note 1 | Description | ССТ | Pwr. (W) | Brk. A | А | В | С | Brk. A | Pwr. (W) | ССТ | Description | Note |
| | Test Receptacle 208V | 1 | 1800 | | | + | + | 15 | 500 | 7 | Genset space heater | NEW |
| E-15/ 16/17 | | 2 | 1800 | 30-3p | | + | + | 15 | 1100 | 8 | Genset receptacles and Motor dampers | NEW |
| | | 3 | 1800 | | | + | + | 15-2p | 1100 | 9 | Test Receptacle 208V | E-18 _/ |
| E-14 E-20 | Receptacles lobby front desk | 4 | 500 | 15 |] 🚽 | + | + | 13-2ρ | 1100 | | Test Neceptacie 2007 | 19 |
| E-7 | Photocopier receptacle lifeguard room | 5 | 950 | 15 |] - | + | + | 20 | 0 | 11 | Spare | |
| NEW | Genset block heater | 6 | 1100 | 15 | + | | + | 20 | 0 | 12 | Spare | |

Power (W) 3850 2900

4 Panelboard Schedule E-4 SCALE: N.T.S.

Note:

1. Designation denotes existing panel/cct that cct has been transferred from. Panel locations shown on dwg. B_E-3. 2. See dwg. B_E-4/3.

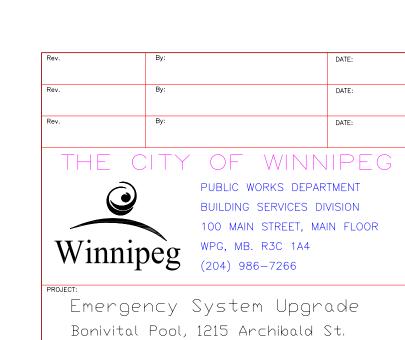


All dimensions in meters



Note 1:

- a) 27mm PVC conduit and 3 ccts from panel "D" to Genset for block heater, space heater and receptacles. Wiring to be #12 RWU90 Cu.
- b) 35mm PVC conduit with 4#6 RWU 90 Cu for emergency power from generator.
 c) 16mm PVC conduit with 2#12 RWU 90 Cu from ATS to generator control panel (Generator start signal).



SYMBOL SCHEDULE

Panelboard Surface Mounted

Panelboard flush mounted

Generator

Automatic Transfer Switch

Luminaire Wall Mounted

Receptacle 120V

Receptacle 208V

Surface Luminaire 1x4

Circuit Breaker

Switch

E Existing to Remain

N New

D Deleted

R Existing to be relocated

M Relocated device/equipmen

M Relocated device/equipment



DWG. NO.

B_E-4