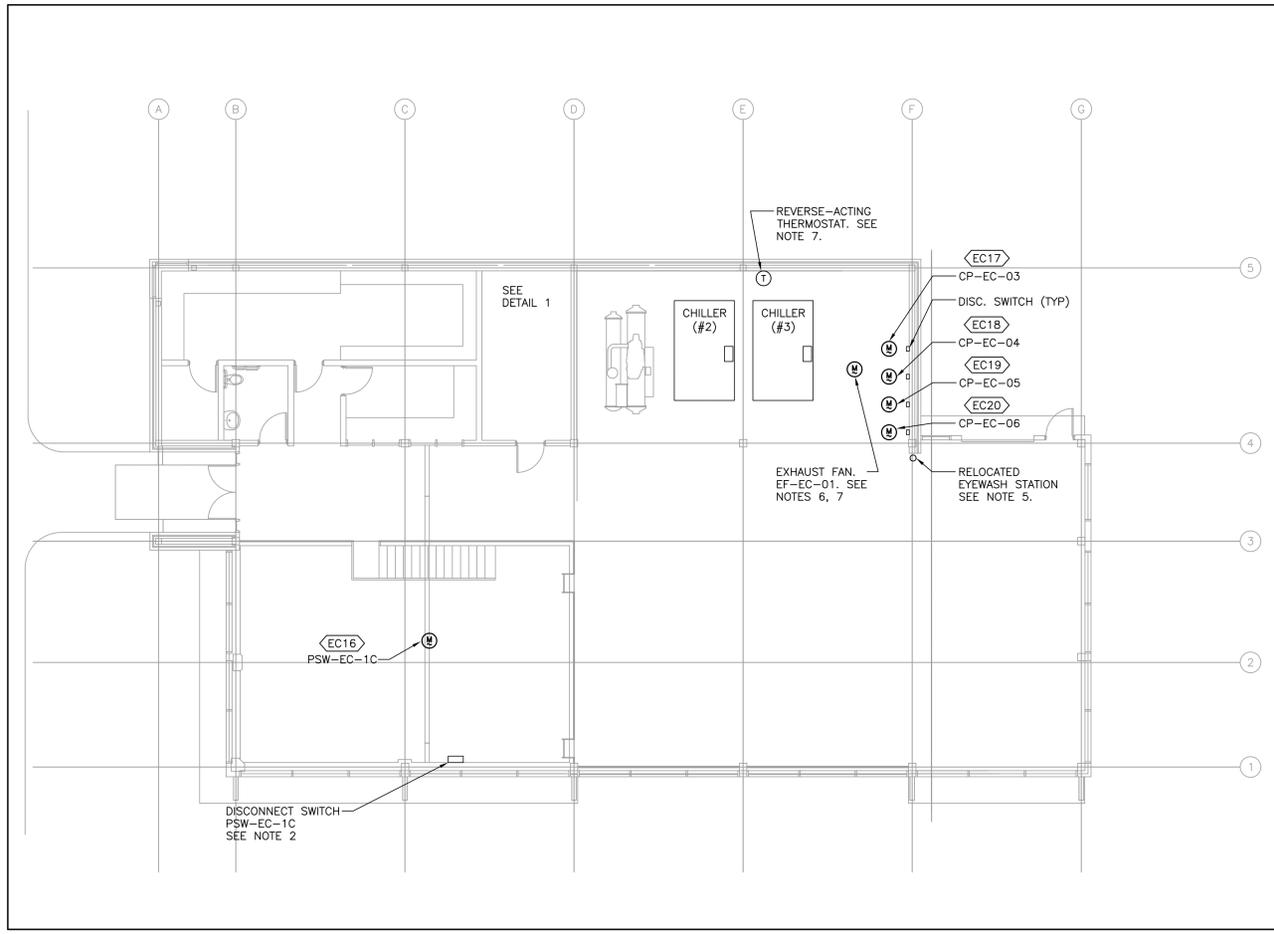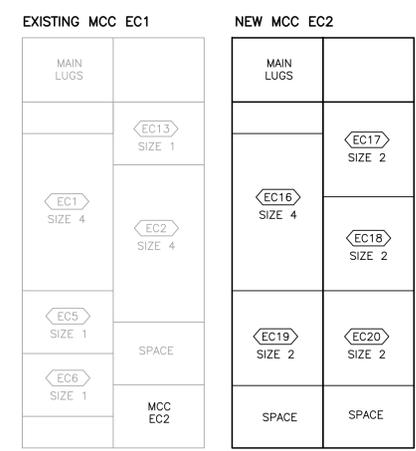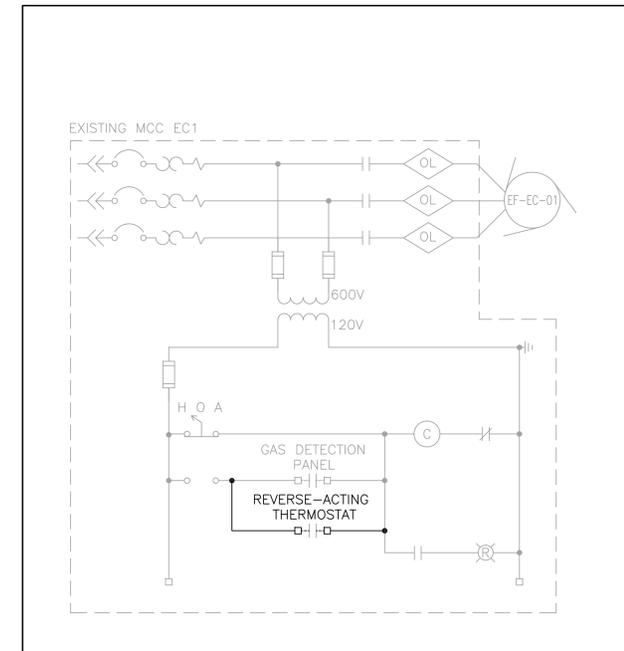# NOTES:

1. ALL WORK IS NEW UNLESS OTHERWISE NOTED.

2. WIRING TO EC16 SHALL BE IN RIGID PVC CONDUIT.

3. RELOCATE THE EXISTING CONTROL PANEL LOCATED BESIDE THE EXISTING SWITCHBOARD TO ALLOW SPACE FOR THE SWITCHBOARD SECTION. EXISTING CONTROL PANEL SHALL BE MOVED NORTH APPROXIMATELY 1200mm AND ASSOCIATED WIRING AND CONDUIT EXTENDED.

4. RELOCATE TWO EXISTING SWITCHES AND FOUR CONTROL TRANSFORMERS LOCATED BESIDE EXISTING MCC EC1 TO ALLOW INSTALLATION OF MCC (MCC EC2). EXISTING SWITCHES AND CONTROL TRANSFORMERS SHALL BE MOVED APPROXIMATELY 500mm SOUTH . ASSOCIATED CONTROL WIRING AND CONDUIT SHALL BE EXTENDED AND RELOCATED. EXISTING PHOTOVOLTAIC INVERTER, (APPROX. 16kg WITH DIMENSIONS OF 838mmH x 330mmW X 127mmD), SHALL BE RELOCATED TO ALLOW RELOCATION OF SWITCHES AND CONTROL TRANSFORMERS. ASSOCIATED WIRING AND CONDUIT SHALL BE EXTENDED/RELOCATED FOR EXISTING INVERTER.

5. RECONNECT ALARM AT EXISTING RELOCATED EYEWASH STATION. SEE DRAWING M-02.

6. DISCONNECT EXISTING EXHAUST FAN AND CONNECT NEW EXHAUST FAN TO EXISTING WIRING. SEE DRAWING M-02.

7. REVERSE-ACTING THERMOSTAT FOR EF-EC-01, (PROVIDED BY MECHANICAL CONTRACTOR), SHALL BE WIRED TO MCC EC1, SEE DETAIL 4 AND DRAWING M-02.
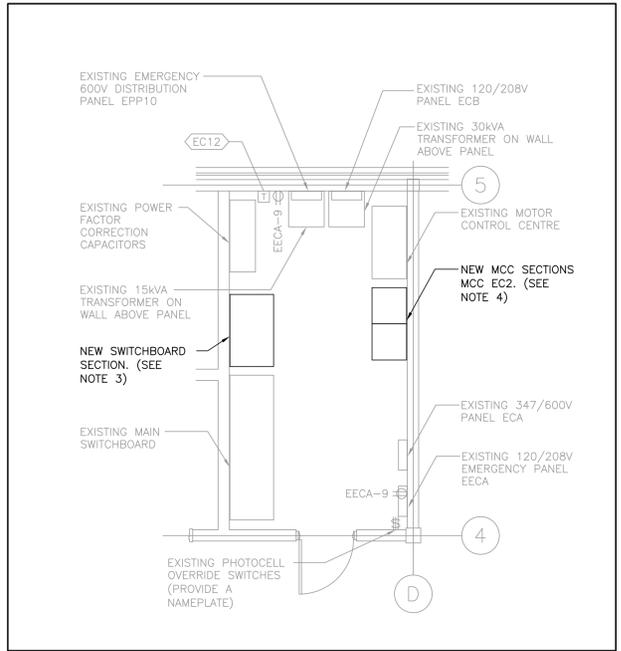

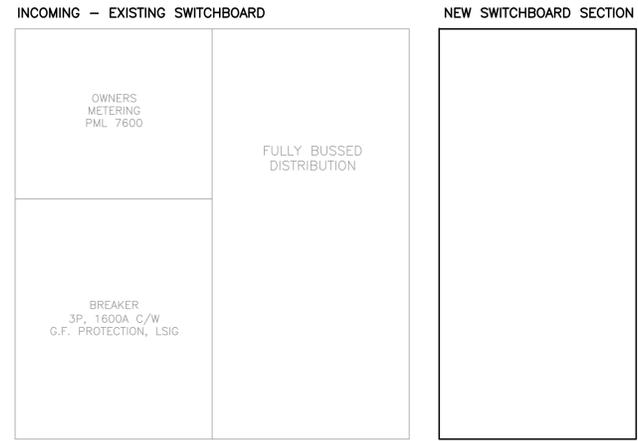
POWER PLAN — ENERGY CENTRE
SCALE: 1:100

REVERSE-ACTING THERMOSTAT. SEE NOTE 7.

SEE DETAIL 1

CHILLER (#2)
CHILLER (#3)

DISC. SWITCH (TYP)

EC17 / CP-EC-03
EC18 / CP-EC-04
EC19 / CP-EC-05
EC20 / CP-EC-06

EXHAUST FAN. EF-EC-01. SEE NOTES 6, 7.

RELOCATED EYEWASH STATION SEE NOTE 5.

EC16 / PSW-EC-1C

DISCONNECT SWITCH PSW-EC-1C SEE NOTE 2

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3 — FRONT ELEVATION — MCCs
SCALE: N.T.S.

EXISTING MCC EC1

MAIN LUGS	
EC1 SIZE 4	EC13 SIZE 1
	EC2 SIZE 4
EC5 SIZE 1	SPACE
EC6 SIZE 1	MCC EC2

NEW MCC EC2

MAIN LUGS	
EC16 SIZE 4	EC17 SIZE 2
	EC18 SIZE 2
EC19 SIZE 2	EC20 SIZE 2
SPACE	SPACE

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4 — EF-EC-01 WIRING SCHEMATIC
SCALE: N.T.S.

EXISTING MCC EC1

EF-EC-01
OL OL OL
600V
120V
H O A
GAS DETECTION PANEL
REVERSE-ACTING THERMOSTAT

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1 — FLOOR PLAN — EC MAIN ELECTRICAL ROOM
SCALE: 1:50
0m 1m 2m 3m 4m 5m

EXISTING EMERGENCY 600V DISTRIBUTION PANEL EPP10

EXISTING 120/208V PANEL ECB

EXISTING 30kVA TRANSFORMER ON WALL ABOVE PANEL

EC12

EXISTING POWER FACTOR CORRECTION CAPACITORS

EXISTING MOTOR CONTROL CENTRE

EXISTING 15kVA TRANSFORMER ON WALL ABOVE PANEL

NEW MCC SECTIONS MCC EC2. (SEE NOTE 4)

NEW SWITCHBOARD SECTION. (SEE NOTE 3)

EECA-9

EXISTING MAIN SWITCHBOARD

EXISTING 347/600V PANEL ECA

EECA-9

EXISTING 120/208V EMERGENCY PANEL EECA

EXISTING PHOTOCELL OVERRIDE SWITCHES (PROVIDE A NAMEPLATE)

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2 — FRONT ELEVATION — EC MAIN SWITCHBOARD
SCALE: N.T.S.

INCOMING — EXISTING SWITCHBOARD

OWNERS METERING PML 7600

FULLY BUSSED DISTRIBUTION

BREAKER 3P, 1600A C/W G.F. PROTECTION, LSIG

NEW SWITCHBOARD SECTION

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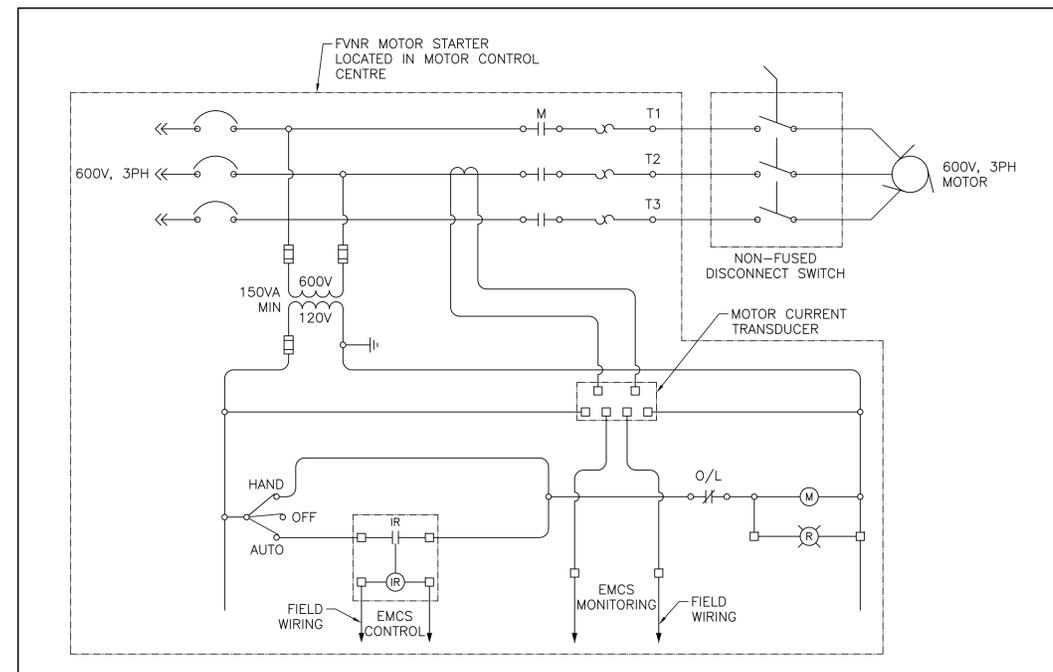
5 — SCHEMATIC — FVNR MCC MOTOR STARTER
SCALE: N.T.S.

FVNR MOTOR STARTER LOCATED IN MOTOR CONTROL CENTRE

M   T1
T2
T3

600V, 3PH
600V, 3PH MOTOR

NON-FUSED DISCONNECT SWITCH

150VA MIN
600V
120V

MOTOR CURRENT TRANSDUCER

HAND
OFF
AUTO

O/L
M
R
IR
IR

FIELD WIRING
EMCS CONTROL
EMCS MONITORING
FIELD WIRING

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C01	ISSUED FOR TENDER	JULY 21 2016
revisions		date