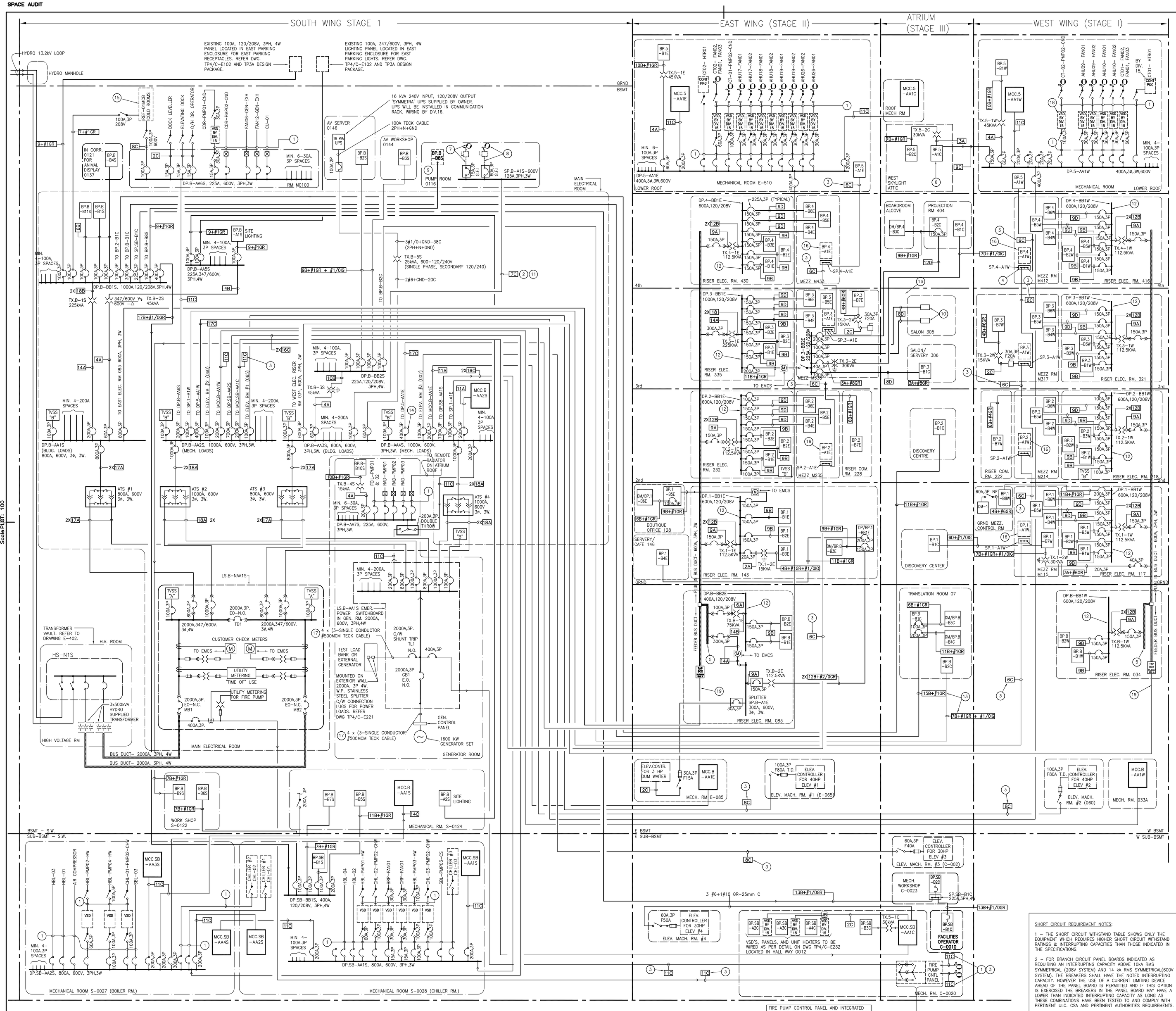

1 POWER RISER DIAGRAM
E303 N.T.S.

SPECIFIC NOTES:

1. REFER TO MOTOR CONTROL SCHEDULE – SPECIFICATION SECTION 16225-1.
2. TYPICAL: REFER TO DRAWING TP4/C-E304 FOR FEEDER SCHEDULE.
3. FEEDER IN 2 HR'S RATED ENCLOSURE OR MICC CABLES OR APPROVED 2HR'S RATED CABLE CONDUIT ASSEMBLIES.
4. TYPICAL: 125A, 600V, 3PH, 3W SPLITTER WITH LUGS. (UNLESS NOTED OTHERWISE)
5. TERMINATE PLUG IN BUS DUCT 600mm A.F.F.
6. RELOCATED FROM ATRIUM ATTIC PANELS AND AND 30kVA, 600–120V DRY TYPE TRANSFORMER. REFER DWG'S. TP4/C–DE154 & TP4/C–E236B. RECONNECT TO NEW SOURCE.
7. WIRING AND CONTROLS FOR 3HP, 600V, 3ø, 3W FILTER PUMP PROVIDED BY OTHERS. G.F.I. ENCLOSED C.B. BY DIV.16.
8. WIRING AND CONTROLS FOR 20HP, 600V, 3ø, 3W WATERFALL PUMP PROVIDED BY OTHER. G.F.I. ENCLOSED C.B. BY DIV.16.
9. WATER FEATURE PANEL BY OTHERS. FEEDER TO PANEL PROVIDED BY DIV.16.
10. SWITCH FOR PORTABLE LIGHTING, REFER DETAIL 2 ON DRAWING TP4/C–E502.
11. TYPICAL: REFER TO GROUNDING RISER, DRAWING TP4/C–E304 FOR SIZES OF GROUND CONDUCTORS IN FEEDER CONDUITS AS WELL AS OTHER LOCATIONS.
12. PROVIDE MINIMUM 4–100A, 3P. SPACES IN DISTRIBUTION PANEL IN ADDITION TO THE BREAKERS INDICATED.
13. TYPICAL: INCREASE FEEDER CONDUIT SIZES TO ACCOMMODATE INDICATED GROUND WIRES.
14. TYPICAL: ALL BREAKERS 400A AND ABOVE SHALL BE 100% RATED.
15. REFER CONTROL SCHEMATIC #12 ON DRAWING TP4/C–E408.
16. FUTURE PANEL. PROVIDE LUGS ON SPLITTER AND SPACE TO INSTALL THE PANEL NEXT TO THE SPLITTER.
17. SINGLE CONDUCTOR TECK CABLES TO BE INSTALLED ON CABLE TROUGH. INSTALL CABLES TO ACHIEVE FREE AIR RATINGS.
18. TYPICAL: UNLESS NOTED OTHERWISE ALL VSD TO BE INSTALLED NEXT TO THE MOTOR.
19. BUS DUCT FEEDER PARALLEL FEEDERS 2 X 75 mm COMPLETE WITH 4 X 350 MCM CABLES.

DISTRIBUTION TRANSFORMER SCHEDULE

TRANSFORMER NO.	PRIMARY VOLTAGE	PRIMARY WINDING	SECONDARY VOLTAGE	SECONDARY WINDING	SPEC. DISGN NO.
TX.B–1S	600	Δ	120/208	Y⏚	1
TX.B–2S	600	Δ	347/600	Y⏚	1
TX.B–3S	600	Δ	120/208	Y⏚	2
TX.B–4S	600	Δ	120/208	Y⏚	1
TX.B–1E	600	Δ	120/208	Y⏚	1
TX.B–2E	600	Δ	120/208	Y⏚	1
TX.1–1E	600	Δ	120/208	Y⏚	1
TX.1–2E	208	Δ	120/208	Y⏚	2
TX.2–1E	600	Δ	120/208	Y⏚	1
TX.3–1E	600	Δ	120/208	Y⏚	1
TX.3–2E	208	Δ	120/208	Y⏚	2
TX.4–1E	600	Δ	120/208	Y⏚	1
TX.5–1E	600	Δ	120/208	Y⏚	1
TX.B–1W	600	Δ	120/208	Y⏚	1
TX.1–1W	600	Δ	120/208	Y⏚	1
TX.1–2W	600	Δ	120/208	Y⏚	2
TX.2–1W	600	Δ	120/208	Y⏚	1
TX.3–1W	600	Δ	120/208	Y⏚	1
TX.4–1W	600	Δ	120/208	Y⏚	1
TX.5–1W	600	Δ	120/208	Y⏚	1
TX.5–2C	600	Δ	120/208	Y⏚	1

NOTE:
A. – REFER TO SPECIFICATION SECTION 16271 FOR DETAILS OF THE "SPEC TYPES" INDICATED.
B. – FOR TRANSFORMER CAPACITIES REFER RISER DIAGRAM.

SHORT CIRCUIT WITHSTAND REQUIREDMENTS

PANEL	MINIMUM INTERRUPTING CAPACITY KA . RMS . SYM	NOTES
LS.B–NAA1S	50	–
ATS 1	42	–
ATS 2	42	–
ATS 3	42	–
ATS 4	42	–
DP.B–AA1S	35	–
DP.B–AA2S	35	–
DP.B–AA3S	35	–
DP.B–AA4S	35	–
LS.B–AA1S	50	–
DP.B–AA5S	35	–
DP.B–AA6S	18	–
DP.B–AA7S	35	–
DP.SB–BB1S	18	–
DP.B–BB1S	18	–
SP.B–A1S	18	–
DP.SB–AA1S	25	–
DP.SB–AA2S	25	–
MCC.SB–AA1S	18	–
MCC.SB–AA2S	18	–
MCC.SB–AA3S	18	–
MCC.SB–AA4S	18	–
MCC.B–AA1S	18	–
FIRE PUMP ATS	18	–
MCC.SB–AA1C	18	–
DP.B–BB2E	18	–
SP.B–A1E	18	–
DP.B–BB1W	18	–
BP.3–B1E	18	2
BP.3–B2E	18	2
BP.3–B3E	18	2
DP.1–BB1E	18	–
DP.2–BB1E	18	–
DP.3–BB1E	18	–
DP.4–BB1E	18	–
DP.1–BB1W	18	–
DP.2–BB1W	18	–
DP.3–BB1W	18	–
DP.4–BB1W	18	–
DP.5–AA1E	18	–
MCC.5–AA1E	18	–
MCC.5–AA1C	18	–
DP.5–AA1W	18	–
MCC.5–AA1W	18	–

SHORT CIRCUIT REQUIREMENT NOTES:

1 – THE SHORT CIRCUIT WITHSTAND TABLE SHOWS ONLY THE EQUIPMENT WHICH REQUIRES HIGHER SHORT CIRCUIT WITHSTAND RATINGS & INTERRUPTING CAPACITIES THAN THOSE INDICATED IN THE SPECIFICATIONS.

2 – FOR BRANCH CIRCUIT PANEL BOARDS INDICATED AS REQUIRING AN INTERRUPTING CAPACITY ABOVE 10kA RMS SYMMETRICAL (208V SYSTEM) AND 14 kA RMS SYMMETRICAL(600V SYSTEM), THE BREAKERS SHALL HAVE THE NOTED INTERRUPTING CAPACITY. HOWEVER THE USE OF A CURRENT LIMITING DEVICE AHEAD OF THE PANEL BOARD IS PERMITTED AND IF THIS OPTION IS EXERCISED THE BREAKERS IN THE PANEL BOARD MAY HAVE A LOWER THAN INDICATED INTERRUPTING CAPACITY AS LONG AS THESE COMBINATIONS HAVE BEEN TESTED TO AND COMPLY WITH PERTINENT ULC. CSA AND PERTINENT AUTHORITIES REQUIREMENTS.

3 – > MEANS "EQUAL TO OR GREATER THAN" AS APPLICABLE.

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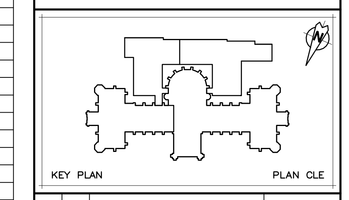

revision révision	issue émission	description	date
01		RECORD DRAWING	04 JUNE 2010

A C – A detail no. no. du d'tail; B location drawing no. no. de localisation; C drawing no. no.du dessin

project / projet
VICTORIA MEMORIAL MUSEUM BUILDING Rehabilitation project
PROJET DE RÉHABILITATION DE L'ÉDIFICE COMMÉMORATIF VICTORIA

drawing / dessin

measured / mesuré	
date	
drawn / dessiné	
date	15 OCT 04
reviewed / examiné	
date	15 OCT 04
approved / approuvé	
date	15 OCT 04
tender / soumission	MARIA SOMJEN
PWC Project Manager	Administrateur de projets TPC
project no. / no. du projet	
drawing no. / no. du dessin	