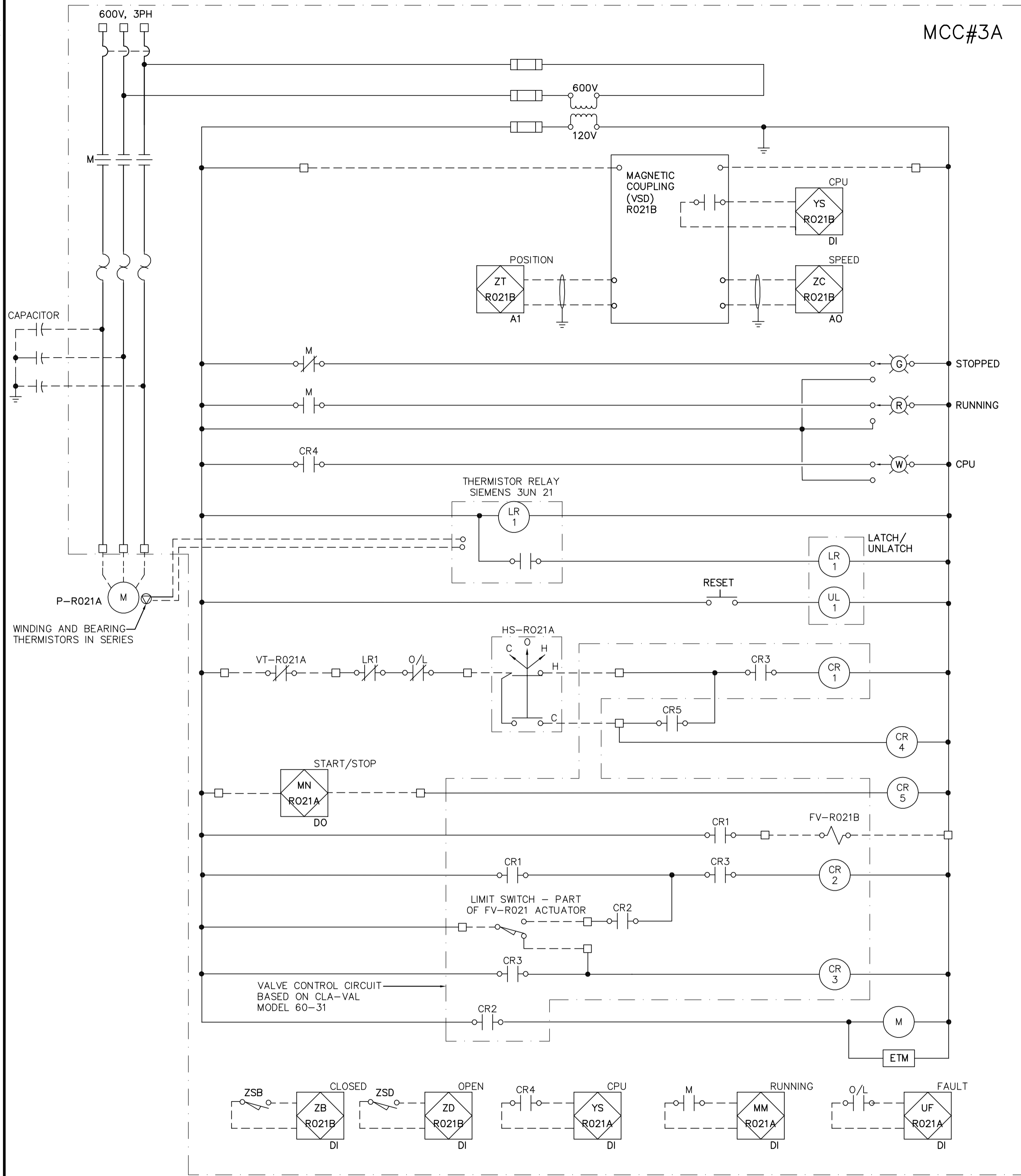


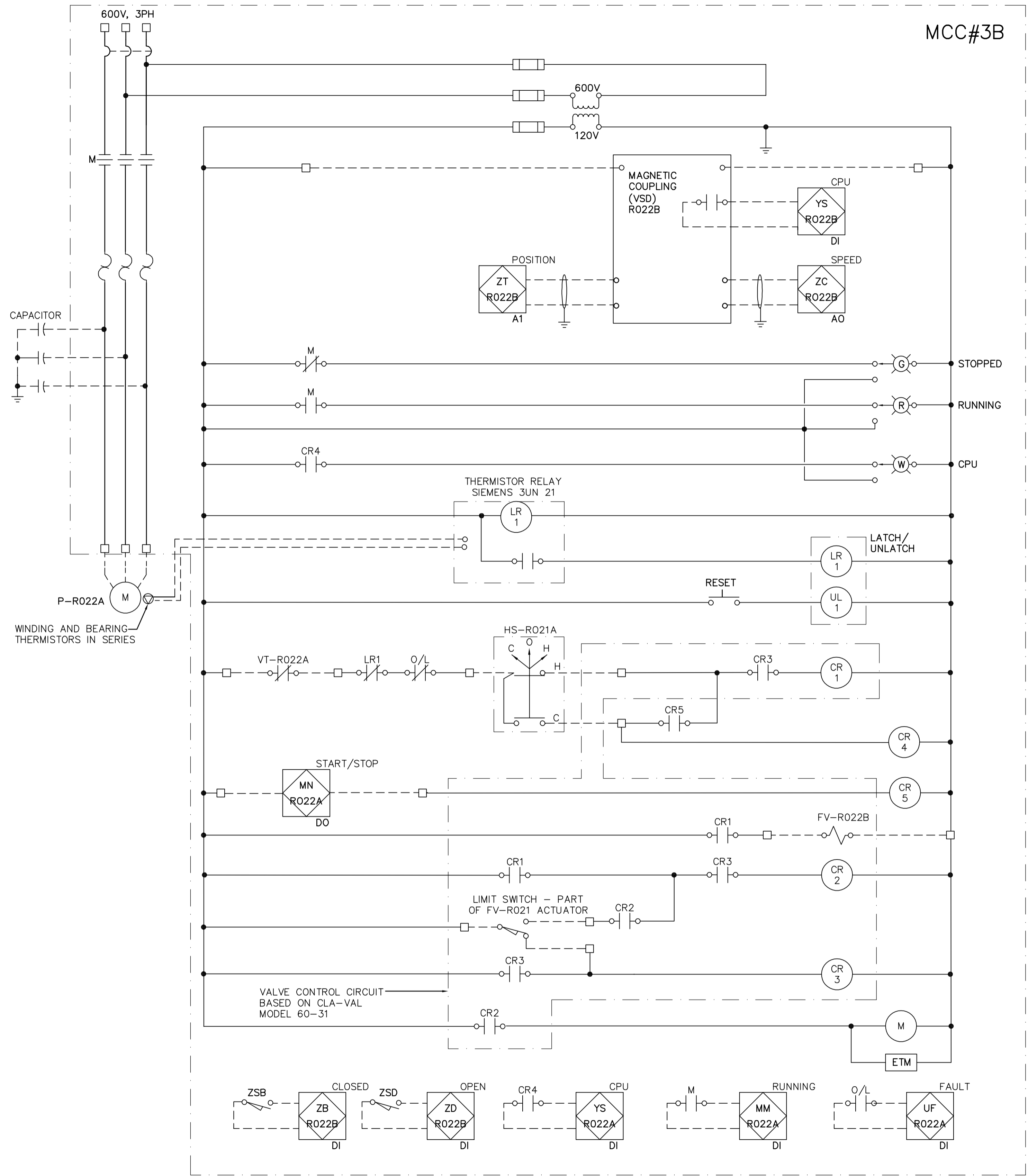
MCC#3A



SUPERNATANT PUMP 1 (P-R021A)

- NOTES:
 1. ALLOW 350A VA ADDITIONAL CAPACITY FOR MAGNETIC COUPLING (VSD).
 2. PUMP OPERATION:
 PUMP STARTS AGAINST A CLOSED VALVE. WHEN THE PUMP IS STARTED, THE SOLENOID CONTROL IS ENERGIZED AND THE VALVE BEGINS TO OPEN SLOWLY, GRADUALLY INCREASING LINE PRESSURE TO FULL PUMPING HEAD. WHEN THE PUMP IS SIGNALLED TO SHUT-OFF, THE SOLENOID CONTROL IS DE-ENERGIZED AND THE VALVE BEGINS TO CLOSE SLOWLY, GRADUALLY REDUCING FLOW WHILE PUMP CONTINUES TO RUN. WHEN THE VALVE IS CLOSED THE LIMIT SWITCH RELEASES THE STARTER AND THE PUMP STOPS.

MCC#3B



SUPERNATANT PUMP 2 (P-R022A)

<p>APEGN Certificate of Authorization CH2M HILL Canada Ltd. No. 1441 Expiry: April 30, 2006</p>	B.M. ELEV.	<p>Frederickson Cooper ARCHITECTS</p>	<p>EarthTech A Yoo International Ltd. Company</p>	ENGINEER'S SEAL ORIGINAL SIGNED BY L.D. LLEWELLYN 2006/03/29	<p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING DIVISION</p>
	00 ISSUED FOR TENDER 06/03/29 LL NO. REVISIONS DATE BY	DESIGNED BY JT CHECKED BY ND DRAWN BY KJ APPROVED BY AHL SCALE: NTS RELEASED FOR CONSTRUCTION BY: R. SOROKOWSKI DATE 2005/11/08 DATE 2006/03/29	CONSULTANT DRAWING NO. WB-E0561	WATER TREATMENT PLANT MAIN BUILDING MECHANICAL AND ELECTRICAL ELECTRICAL CONTROL DIAGRAM	