



WORK REQUIRED

- 1 REMOVE EXISTING 50/51-A, 50/51-C AND 50/51-N CO-11 ELECTROMECHANICAL RELAYS. INSTALL NEW DIRECT PLUG-IN ELECTRONIC REPLACEMENTS RELAYS FOR PHASES A, B, C IN THE EXISTING CASES. CONFIGURE THE RELAYS WITH THE SAME SETTINGS AS EXISTING OR WITH NEW SETTINGS PROVIDED BY THE CITY OF WINNIPEG.
- 2 INSTALL NEW 50/51-N RELAY AND CASE INTO THE LOCATION INDICATED ON THE ELEVATION DRAWING. MODIFY THE METAL SWITCHGEAR DOOR AS REQUIRED TO ACCOMMODATE THE NEW RELAY. CONFIGURE RELAY WITH THE SAME SETTINGS AS EXISTING OR WITH NEW SETTINGS PROVIDED BY THE CITY OF WINNIPEG. MODIFY AND LABEL WIRING AS SHOWN.
- 3 PROVIDE AND INSTALL A LAMACOID NAMEPLATE FOR EACH RELAY INDICATING THE RELAY IDENTIFIER 50/51-A, 50/51-B, 50/51-C AND 50/51-N.
- 4 INSTALL WIRE LABELS ON ALL NEW AND EXISTING CT WIRING, BACK TO THE TERMINAL BLOCKS.

NOTES:

1. THIS DRAWING SUPERCEDES PART OF THE ORIGINAL WESTINGHOUSE SHOP DRAWING 739C329.
2. THIS DRAWING IS BASED ON THE ORIGINAL SHOP DRAWING AND VISUAL INSPECTION. ALL WIRING HAS NOT BEEN FIELD VERIFIED. DESIGN RESPONSIBILITY IS LIMITED TO THE MODIFICATIONS SHOWN.



NO.	ISSUED FOR TENDER	DATE	BDK	CJR
00	ISSUED FOR TENDER	2009/08/17	BDK	CJR
01	REVISIONS	DATE	DESIGN	CHECK

SNC-LAVALIN INC.
 148 Hutterly Park Way
 Winnipeg, MB, Canada R3P 0X7
 204-786-8080

DESIGNED BY: B. KING
 DRAWN BY: B. KING
 SCALE: NTS
 DATE: 2009/08/17

CHECKED BY: C. REIMER
 APPROVED BY: C. REIMER
 RELEASED FOR CONSTRUCTION BY:
 DATE:

ENGINEER'S SEAL

ORIGINAL DRAWING SEALED BY:
 B. D., KING
 2009/08/14
 REV. 00

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION

THREE LINE DIAGRAM
 4160V MAIN BREAKER

CITY DRAWING NUMBER: 1-0640M-E0017
 SHEET: 001
 REV: 00
 SIZE: A1

D-2227	LOOP DIAGRAM - 4160 V POWER FAILURE
1-0640M-E0002	SINGLE LINE DIAGRAM
DRAWING NUMBER	REFERENCE DRAWINGS