

CONDUIT AND CABLE SCHEDULE 1 (NOTE 1)

CONDUIT AND CABLE SCHEDULE 1 (CONTINUED)


FEEDER NO.	CONDUIT		FROM	TO	SERVICE	CONTAINS CABLES	INSULATION 600V	REMARKS
	SIZE [INCHES]	MATERIAL						
P001	3	PVC RGS	SWITCHBOARD #2	MCC - SOUTH TOWER	POWER FOR MCC SOUTH TOWER	3 #350 kcmil, 1# 1/0 AWG GND	RW90, XLPE	
P002	3	PVC RGS	SWITCHBOARD #2	MCC - SOUTH TOWER	POWER FOR MCC SOUTH TOWER	3 #350 kcmil, 1# 1/0 AWG GND	RW90, XLPE	
P003	3	PVC RGS	SWITCHBOARD #2	SOUTH TOWER TC	POWER FOR NORTH TOWER 600A ATS	3 #350 kcmil, 1# 1/0 AWG GND	RW90, XLPE	
P004	3	PVC RGS	SWITCHBOARD #2	SOUTH TOWER TC	POWER FOR NORTH TOWER 600A ATS	3 #350 kcmil, 1# 1/0 AWG GND	RW90, XLPE	
P005	3	PVC RGS	SWITCHBOARD #2	SOUTH TOWER TC	POWER FOR NORTH TOWER 600A ATS	3 #350 kcmil, 1# 1/0 AWG GND	RW90, XLPE	
P006	3	PVC RGS	SWITCHBOARD #2	SOUTH TOWER TC	POWER FOR NORTH TOWER 600A ATS	3 #350 kcmil, 1# 1/0 AWG GND	RW90, XLPE	
P007			SOUTH TOWER TC	NORTH TOWER 600A ATS	POWER FOR NORTH TOWER 600A ATS	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	AERIAL CABLES
P008			SOUTH TOWER TC	NORTH TOWER 600A ATS	POWER FOR NORTH TOWER 600A ATS	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	AERIAL CABLES
P009			SOUTH TOWER TC	NORTH TOWER 600A ATS	POWER FOR NORTH TOWER 600A ATS	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	AERIAL CABLES
P010			SOUTH TOWER TC	NORTH TOWER 600A ATS	POWER FOR NORTH TOWER 600A ATS	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	AERIAL CABLES
P011			SOUTH TOWER TC	NORTH TOWER 600A ATS	POWER FOR NORTH TOWER 600A ATS	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	AERIAL CABLES
P012			SOUTH TOWER TC	NORTH TOWER 600A ATS	POWER FOR NORTH TOWER 600A ATS	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	AERIAL CABLES
P013	3	PVC RGS	NORTH TOWER 600A ATS	MCC- NORTH TOWER	POWER FOR MCC NORTH TOWER	3 #350 kcmil, 1# 1/0 AWG GND	RW90, XLPE	
P014	3	PVC RGS	NORTH TOWER 600A ATS	MCC- NORTH TOWER	POWER FOR MCC NORTH TOWER	3 #350 kcmil, 1# 1/0 AWG GND	RW90, XLPE	
P015	3/4	PVC RGS	SOUTH TOWER MCC	30A DISCONNECT SWITCH	POWER FOR LIGHTING PANEL LP2	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P016	3/4	PVC RGS	SOUTH TOWER MCC	SOUTH PIER LIGHHOUSE	POWER FOR SOUTH PIER LIGHHOUSE	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P017	3	PVC RGS	SOUTH TOWER MCC	VECTOR DRIVE E1-SL	POWER FOR VECTOR DRIVE E1-SL	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P018	3	PVC RGS	SOUTH TOWER MCC	VECTOR DRIVE E1-SL	POWER FOR VECTOR DRIVE E1-SL	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P019	1	PVC RGS	SOUTH TOWER MCC	MACH. RM SPACE HTR CONT.	POWER FOR SPACE HTR CABINET	3 #8 AWG, 1 #10 AWG GND	RW90, XLPE	
P020	3/4	PVC RGS	SOUTH TOWER MCC	SOUTH MOTOR RM LOCK/GATES PB	POWER FOR PED. GATE PG-SW	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P021	1-1/2	PVC RGS	SOUTH TOWER MCC	EXISTING (20HP) AUX MTS	POWER FOR EXISTING (20HP) AUX	3 #4AWG, 1 #8 AWG GND	RW90, XLPE	
P022	3	PVC RGS	SOUTH TOWER MCC	VECTOR DRIVE 2W-MA	POWER FOR VECTOR DRIVE 2W-MA	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P023	3	PVC RGS	SOUTH TOWER MCC	VECTOR DRIVE 2W-MA	POWER FOR VECTOR DRIVE 2W-MA	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P024	1-1/2	PVC RGS	SOUTH TOWER MCC	SOUTH MOTOR RM LOCK/GATES PB	POWER FOR LOCK/GATES/BARRIER	12 #10AWG, 4 #10 AWG GND	RW90, XLPE	
P025	1-1/2	PVC RGS	SOUTH TOWER MCC	MACH. RM BRK/BLOWER PB	POWER BRAKES S1, S2, S3, AND S4	12 #10AWG, 4 #10 AWG GND	RW90, XLPE	
P026	1-1/2	PVC RGS	SOUTH TOWER MCC	SOUTH ELEVATOR	POWER FOR SOUTH ELEVATOR	3 #8AWG, 1 #8AWG GND	RW90, XLPE	
P027	1-1/2	PVC RGS	SOUTH TOWER MCC	MACH. RM BRK/BLOWER PB	POWER FOR DIFL-S, BL-1E, BL-2W	9 #10AWG, 3 #10 AWG GND	RW90, XLPE	
P028	3	PVC RGS	VECTOR DRIVE E1-SL	SPAN MOTOR E1-SL	POWER FOR SPAN MOTOR E1-SL	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P029	3	PVC RGS	VECTOR DRIVE E1-SL	SPAN MOTOR E1-SL	POWER FOR SPAN MOTOR E1-SL	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P030	3	PVC RGS	VECTOR DRIVE 2W-MA	SPAN MOTOR 2W-MA	POWER FOR SPAN MOTOR 2W-MA	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P031	3	PVC RGS	VECTOR DRIVE 2W-MA	SPAN MOTOR 2W-MA	POWER FOR SPAN MOTOR 2W-MA	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P032	2	PVC RGS	MACH. RM LOCK/GATES PB	LOCK/GATES PB	POWER FOR LOCK/GATES/BARRIER	15 #10AWG, 5 #10 AWG GND	RW90, XLPE	
P033	1	PVC RGS	LOCK/GATES PB	SPAN LOCK MOTOR SOUTH	POWER FOR SPAN LOCK SOUTH	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P034	1-1/2	PVC RGS	LOCK/GATES PB	SOUTH PASSAGE NW PB	POWER FOR GATES/BARRIER	12 #10AWG, 4 #10 AWG GND	RW90, XLPE	
P035	1	PVC RGS	SOUTH PASSAGE NW PB	PEDESTRIAN GATE PG-SW	POWER FOR PED. GATE PG-SW	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P036	1	PVC RGS	SOUTH PASSAGE NW PB	SOUTH PASSAGE SW PB	POWER FOR GATES/BARRIER	9 #10AWG, 1 #10AWG GND	RW90, XLPE	
P037	1	PVC RGS	SOUTH PASSAGE SW PB	TRAFFIC GATE TG-SW	POWER FOR GATE TG-SW	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P038	1	PVC RGS	SOUTH PASSAGE SW PB	TRAFFIC LIGHT TL-SW	POWER FOR TRAFFIC LIGHT TL-SW	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P039	1	PVC RGS	SOUTH PASSAGE SW PB	SOUTH PASSAGE SE PB	POWER FOR GATES/BARRIER	6 #10AWG, 1 #10AWG GND	RW90, XLPE	
P040	1	PVC RGS	SOUTH PASSAGE SE PB	BARRIER GATE BG-SE	POWER FOR GATE BG-SE	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P041	1	PVC RGS	SOUTH PASSAGE SE PB	TRAFFIC GATE TG-SE	POWER FOR GATE TG-SE	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P042	3/4	LFMC	MACH. RM BRK/BLOWER PB	MOTOR BRAKE S1	POWER FOR MOTOR BRAKE S1	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P043	3/4	LFMC	MACH. RM BRK/BLOWER PB	MOTOR BLOWER BL-1E	POWER FOR MOTOR BLOWER BL-1E	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P044	3/4	LFMC	MACH. RM BRK/BLOWER PB	MACHINERY BRAKE S2	POWER FOR MACHINERY BRAKE S2	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P045	3/4	LFMC	MACH. RM BRK/BLOWER PB	SOUTH DIFFERENTIAL LOCK	POWER FOR DIFF LOCK DIFL-S	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P046	3/4	LFMC	MACH. RM BRK/BLOWER PB	MACHINERY BRAKE S3	POWER FOR MACHINERY BRAKE S3	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P047	3/4	LFMC	MACH. RM BRK/BLOWER PB	MOTOR BLOWER BL-2W	POWER FOR MOTOR BLOWER BL-2W	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P048	3/4	LFMC	MACH. RM BRK/BLOWER PB	MOTOR BRAKE S4	POWER FOR MOTOR BRAKE S4	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P049	1	PVC RGS	MACH. RM SPACE HTR CONT.	MACH. RM SPACE HTR	POWER FOR MACH. RM SPACE HTR	3 #8AWG, 1 #10AWG GND	RW90, XLPE	
P050	1	PVC RGS	MACH. RM SPACE HTR CONT.	30A DISCONNECT SWITCH	POWER FOR 15kVA TRANSFORMER	3 #6 AWG, 1#10 GND	RW90, XLPE	600V
P051	1	PVC RGS	30A DISCONNECT SWITCH	15kVA TRANSFORMER	POWER FOR 15kVA TRANSFORMER	3 #6 AWG, 1#10 GND	RW90, XLPE	600V
P052	1	PVC RGS	15kVA TRANSFORMER	PANEL LP-6	POWER FOR LP-6	4#2 AWG, 1#2 GND	RW90, XLPE	208/120V
P053								
P054								
P055								
P056								
P057								
P058								
P059								
P060	3/4	PVC RGS	NORTH TOWER MCC	30A DISCONNECT SWITCH	POWER FOR LIGHTING PANEL LP3	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P061	3/4	PVC RGS	NORTH TOWER MCC	30A DISCONNECT SWITCH	POWER FOR LIGHTING PANEL LP4	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P062	3	PVC RGS	NORTH TOWER MCC	VECTOR DRIVE 3E-MA	POWER FOR VECTOR DRIVE 3E-MA	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P063	3	PVC RGS	NORTH TOWER MCC	VECTOR DRIVE 3E-MA	POWER FOR VECTOR DRIVE 3E-MA	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P064	1	PVC RGS	NORTH TOWER MCC	MACH. RM SPACE HTR CONT.	POWER FOR SPACE HTR CABINET	3 #8 AWG, 1 #10 AWG GND	RW90, XLPE	
P065	3/4	PVC RGS	NORTH TOWER MCC	NORTH MOTOR RM LOCK/GATES PB	POWER FOR PED. GATE PG-NW	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P066	1-1/2	PVC RGS	NORTH TOWER MCC	EXISTING (20HP) AUX MTS	POWER FOR EXISTING (20HP) AUX	3 #4AWG, 1 #8 AWG GND	RW90, XLPE	
P067	3	PVC RGS	NORTH TOWER MCC	VECTOR DRIVE 4W-SL	POWER FOR VECTOR DRIVE 4W-SL	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P068	3	PVC RGS	NORTH TOWER MCC	VECTOR DRIVE 4W-SL	POWER FOR VECTOR DRIVE 4W-SL	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	

FEEDER NO.	CONDUIT		FROM	TO	SERVICE	CONTAINS CABLES	INSULATION 600V	REMARKS
	SIZE [INCHES]	MATERIAL						
P069	1-1/2	PVC RGS	NORTH TOWER MCC	NORTH MOTOR RM LOCK/GATES PB	POWER FOR LOCK/GATES/BARRIER	12 #10AWG, 4 #10 AWG GND	RW90, XLPE	
P070	1-1/2	PVC RGS	NORTH TOWER MCC	MACH. RM BRK/BLOWER PB	POWER BRAKES N1, N2, N3, AND N4	12 #10AWG, 4 #10 AWG GND	RW90, XLPE	
P071	1-1/2	PVC RGS	NORTH TOWER MCC	NORTH ELEVATOR	POWER FOR NORTH ELEVATOR	3 #6AWG, 1 #8AWG GND	RW90, XLPE	
P072	1-1/2	PVC RGS	NORTH TOWER MCC	MACH. RM BRK/BLOWER PB	POWER FOR DIFL-S, BL-1E, BL-2W	9 #10AWG, 3 #10 AWG GND	RW90, XLPE	
P073	3	PVC RGS	VECTOR DRIVE 3E-MA	SPAN MOTOR 3E-MA	POWER FOR SPAN MOTOR 3E-MA	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P074	3	PVC RGS	VECTOR DRIVE 3E-MA	SPAN MOTOR 3E-MA	POWER FOR SPAN MOTOR 3E-MA	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P075	3	PVC RGS	VECTOR DRIVE 4W-SL	SPAN MOTOR 4W-SL	POWER FOR SPAN MOTOR 4W-SL	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P076	3	PVC RGS	VECTOR DRIVE 4W-SL	SPAN MOTOR 4W-SL	POWER FOR SPAN MOTOR 4W-SL	3 #4/0AWG, 1# 1/0 AWG GND	RW90, XLPE	
P077	2	PVC RGS	MACH. RM LOCK/GATES PB	LOCK/GATES PB	POWER FOR LOCK/GATES/BARRIER	15 #10AWG, 5 #10 AWG GND	RW90, XLPE	
P078	1	PVC RGS	LOCK/GATES PB	SPAN LOCK MOTOR NORTH	POWER FOR SPAN LOCK NORTH	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P079	1-1/2	PVC RGS	LOCK/GATES PB	NORTH PASSAGE SW PB	POWER FOR GATES/BARRIER	12 #10AWG, 4 #10 AWG GND	RW90, XLPE	
P080	1	PVC RGS	NORTH PASSAGE SW PB	PEDESTRIAN GATE PG-NW	POWER FOR PED. GATE PG-NW	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P081	1	PVC RGS	NORTH PASSAGE SW PB	NORTH PASSAGE NW PB	POWER FOR GATES/BARRIER	9 #10AWG, 1 #10AWG GND	RW90, XLPE	
P082	1	PVC RGS	NORTH PASSAGE NW PB	TRAFFIC GATE TG-NW	POWER FOR GATE TG-NW	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P083	1	PVC RGS	NORTH PASSAGE NE PB	TRAFFIC LIGHT TL-NE	POWER FOR TRAFFIC LIGHT TL-NE	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P084	1	PVC RGS	NORTH PASSAGE NW PB	NORTH PASSAGE NE PB	POWER FOR GATES/BARRIER	6 #10AWG, 1 #10AWG GND	RW90, XLPE	
P085	1	PVC RGS	NORTH PASSAGE NE PB	BARRIER GATE BG-NE	POWER FOR GATE BG-NE	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P086	1	PVC RGS	NORTH PASSAGE NE PB	TRAFFIC GATE TG-NE	POWER FOR GATE TG-NE	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P087	3/4	LFMC	MACH. RM BRK/BLOWER PB	MOTOR BRAKE N1	POWER FOR MOTOR BRAKE N1	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P088	3/4	LFMC	MACH. RM BRK/BLOWER PB	MOTOR BLOWER BL-3E	POWER FOR MOTOR BLOWER BL-3E	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P089	3/4	LFMC	MACH. RM BRK/BLOWER PB	MACHINERY BRAKE N2	POWER FOR MACHINERY BRAKE N2	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P090	3/4	LFMC	MACH. RM BRK/BLOWER PB	NORTH DIFFERENTIAL LOCK	POWER FOR DIFF LOCK DIFL-N	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P091	3/4	LFMC	MACH. RM BRK/BLOWER PB	MACHINERY BRAKE N3	POWER FOR MACHINERY BRAKE N3	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P092	3/4	LFMC	MACH. RM BRK/BLOWER PB	MOTOR BLOWER BL-4W	POWER FOR MOTOR BLOWER BL-4W	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P093	3/4	LFMC	MACH. RM BRK/BLOWER PB	MOTOR BRAKE N4	POWER FOR MOTOR BRAKE N4	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P094	3/4	PVC RGS	NORTH PASSAGE NW PB	TRAFFIC LIGHT TL-NW	POWER FOR TRAFFIC LIGHT TL-NW	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P095	3/4	PVC RGS	SOUTH PASSAGE SE PB	TRAFFIC LIGHT TL-SE	POWER FOR TRAFFIC LIGHT TL-SE	3 #10AWG, 1 #10AWG GND	RW90, XLPE	
P096	1	PVC RGS	MACH. RM HTR CONT.	MACH. RM SPACE HTR	POWER FOR MACH. RM SPACE HTR	3 #8AWG, 1 #10AWG GND	RW90, XLPE	
P097	1	PVC RGS	MACH. RM HTR CONT.	30A DISCONNECT SWITCH	POWER FOR 15kVA TRANSFORMER	3#6 AWG, 1#10 GND	RW90, XLPE	600V
P098	1	PVC RGS	30A DISCONNECT SWITCH	15kVA TRANSFORMER	POWER FOR 15kVA TRANSFORMER	3#6 AWG, 1#10 GND	RW90, XLPE	600V
P099	1	PVC RGS	15kVA TRANSFORMER	PANEL LP-5	POWER FOR LP-5	4#2 AWG, 1#2 GND	RW90, XLPE	208/120V
P100								

NOTES:
1. CONDUIT AND CABLE SCHEDULE AND SERVICE DESIGNATIONS ARE INTENDED AS A GUIDE FOR THE CONTRACTOR AND ARE NOT CONSIDERED TO BE COMPLETE. THE CONTRACTOR MUST COMPLETE THE SCHEDULE AND SUBMIT WITH THE SHOP DRAWINGS BASED ON CONTRACTOR SELECTED EQUIPMENT BRANDS AND MODELS AND FINAL CONFIGURATIONS.

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Name: Mark VanDeRee
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Limitations: Electrical system design for the Burlington Canal Bridge in Burlington, Ontario for Public Works and Government Services Canada

Collaborator: Zvonko Trajkovic, P. Eng.
Expiry Date : July 31, 2013
Association of Professional Engineers of Ontario

Mark VanDeRee 243-07-08



07	FOR TENDER 2	2013-06-30
06	FOR TENDER	2013-06-04
05	FINAL DESIGN COMPLETION	2013-05-31
04	99% DESIGN COMPLETION	2013-05-31
03	90% DESIGN SUBMITTAL	2013-03-31
02	66% DESIGN SUBMITTAL	2013-02-14
01	33% DESIGN SUBMITTAL	2012-12-10

revision		date
Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.		

A

B

C

A Detail No.
No. du détail

B drawing no. - where detail required
dessin no. - où détail exigé

C drawing no. - where detailed
dessin no. - où détaillé

project title
titre du projet
**HAMILTON ONTARIO
BURLINGTON CANAL
VERTICAL LIFT BRIDGE
REPLACEMENT OF CONTROLS,
DRIVES AND OVERHEAD CABLES**

drawing title
titre du dessin
CONDUIT AND CABLE SCH. 1

drawn by
dessiné par
D. Buro

designed by
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D. Raffington/J. Chin

approved by
approuvé par
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bid
soumission
A. Ghubril

project manager
administrateur
de projets

project date
date du projet
2013-05-31

project no.
no. du projet
R.012641.001

drawing no.
dessiné no.
E-86