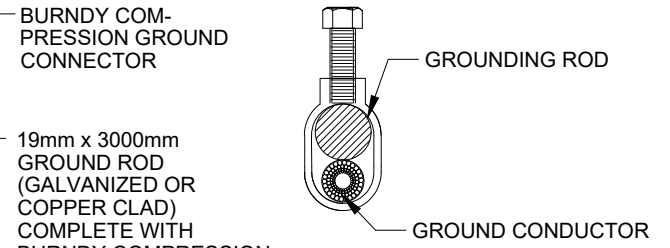


**NOTES:**

- A. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- B. THE GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE AND INSPECTED HYDRO OTTAWA PRIOR TO BACKFILLING. WHEN THE ELECTRICAL EQUIPMENT IS TO SUPPLY A CUSTOMER ON PRIVATE PROPERTY, ESA INSPECTION IS REQUIRED PRIOR TO BACKFILLING.
- C. ADDITIONAL GROUNDING RODS AND/OR PLATES SHALL BE ADDED TO OBTAIN A SATISFACTORY GROUND RESISTANCE OF  $\leq 25$  OHMS (ISOLATED) OR  $< 6$  OHMS CONNECTED TO SYSTEM NEUTRAL.
- D. ALL GROUNDING EQUIPMENT TO BE CSA APPROVED.
- E. PROTECTIVE BOLLARDS REQUIRED AS STATED IN DESIGN.
- F. EXCAVATION TO BE BACKFILLED AND COMPACTED TO 600mm WITH THE BALANCE OF THE EXCAVATION TO REMAIN OPEN FOR GROUNDING INSTALLATION BY CONTRACTOR. UNTIL INSPECTION COMPLETE.
- G. METAL BOUNDARY FENCE OR OTHER METAL STRUCTURES WITHIN 2400mm OR LESS OF THE PAD-MOUNTED EQUIPMENT SHALL BE BOUNDED TO THE GROUND LOOP WITH A CONDUCTOR SIZE APPROPRIATE FOR THE AVAILABLE FAULT CURRENT (MIN. 2/0 CU.) AND A SEPARATE CONNECTOR APPROVED BY HYDRO OTTAWA.



**DETAIL 'A'**

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**GROUND LOOP PLAN**

REVISIONS		PREP	CHKD	APPD
REV: 1	DATE: 2009-01-12 CHANGE: TITLE TO SHOW SIDE BY SIDE INSTALLATION NOTE B REVISED RE ESA INSPECTION	CP	PL	CSM
REV: 2	DATE: 2010-05-27 CHANGE: TITLE CHANGE	FB	RW	CSM
REV: 3	DATE: 2020-04-08 CHANGE: UPDATED NOTE 'G'	EV	AK	MW

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PREP: G. MOLNAR  
CHKD: P. LEMAY  
APPD: C. MALONE P. Eng  
DATE: 2008-05-13  
SCALE: N.T.S. @ ANSI B

TITLE		ENGINEERING SPECIFICATION GROUNDING TRANSFORMER BASE & SWITCHGEAR MANHOLE COMBINATION SIDE BY SIDE GROUNDING DETAIL	
NO:		UGS0007	
1	REV:	1	3

LAST SAVED: 2020-04-14 9:21 AM