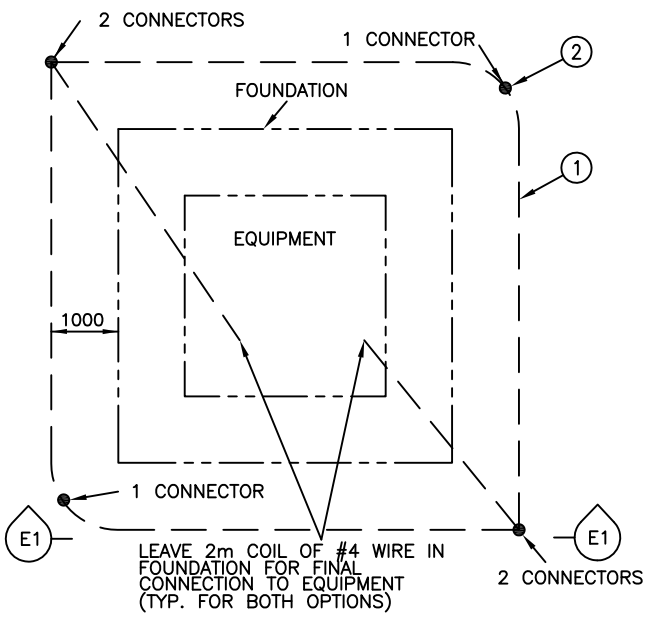
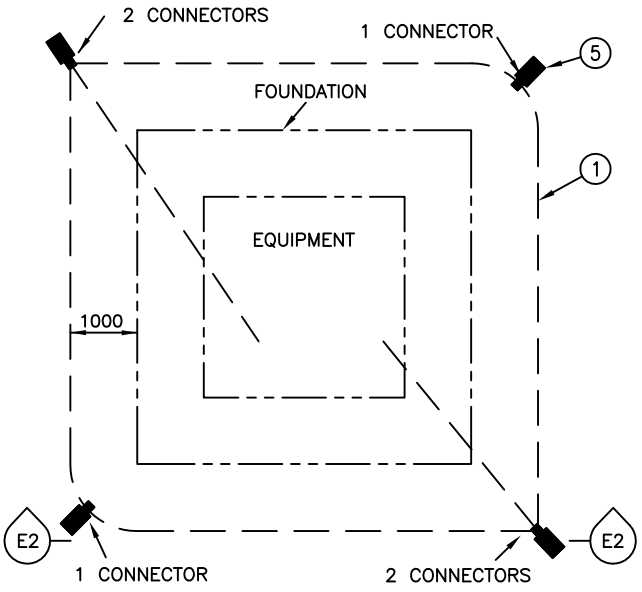
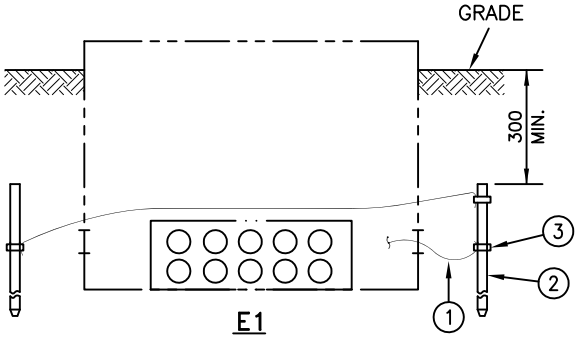


PLAN VIEW OF GROUND GRADIENT GRID

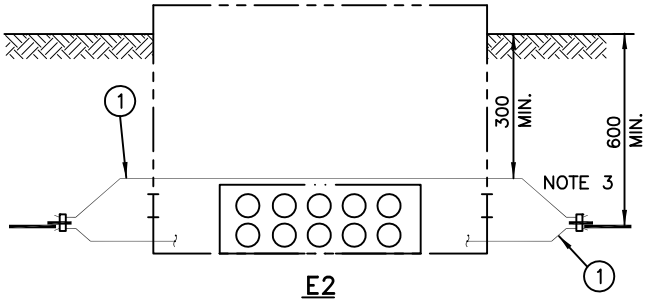


PLAN VIEW OF GROUND GRADIENT GRID



E1

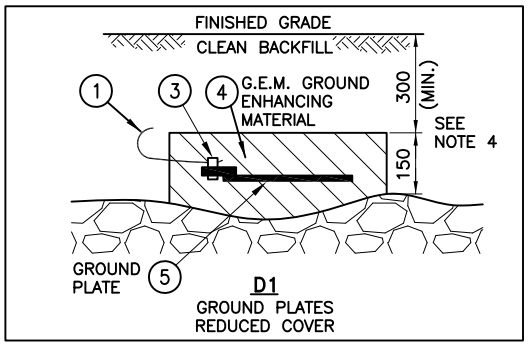
TYPICAL INSTALLATION – GROUND RODS



E2

ALTERNATE INSTALLATION – GROUND PLATES

PARTS LIST			
PART No.	MM No.	DESCRIPTION	QTY.
1	30014488	BARE CONDUCTOR, COPPER, #4 AWG	A/R
2	30014142	ROD, GROUND, 19mm x 3m, GALV.	4
3	30006646	CONNECTOR, GRD. WEDGE, GROUND ROD TO #4 COPPER WIRE	6
4	30025402	GROUND ENHANCING MATERIAL (G.E.M.)	A/R
5	30025401	GROUND PLATE	4
MM# = REFER TO SECTION 16 ONLY		A/R = AS REQUIRED	



D1
GROUND PLATES REDUCED COVER

REFERENCES:

SECTION 1 – DEFINITIONS
SECTION 3C – CONSTRUCTION GUIDE
SECTION 16 – MATERIALS

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. GAS PIPE LINES SHALL MAINTAIN MINIMUM 300mm (PREFERRED 600mm) SEPARATION FROM HYDRO ONE EQUIPMENT GROUND GRID.
3. GROUND RODS MAY BE SUBSTITUTED WITH GROUND PLATES ONLY IF GROUND RODS CANNOT BE DRIVEN DUE TO ROCKY GROUND CONDITIONS. MAINTAIN 600mm MINIMUM NATIVE SOIL COVER OVER PLATES AND 300mm OVER GROUND WIRE(S). PLATES INSTALLED AT REDUCED DEPTH MUST BE INSTALLED PER INSET 'D1'.
4. MECHANICAL PROTECTION (75mm 21 MPa CONCRETE) IS REQUIRED OVER PLATES AND GROUND WIRES FOR BURIAL DEPTHS LESS THAN 300mm.

Rev. No.	Issue Date	Revision	Dwn	Approved By	Chk	Date
				*		*
*	*	*	*	*	*	*
	*	*				

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hydro one **Hydro One Networks Inc.**

Drawn:	Approved:	Date:
LS	*	NOV.26,2013

PAD-MOUNTED EQUIPMENT GROUNDING DETAILS - TYPICAL (CONCRETE FOUNDATION)

Dwg. No.	Rev.
DU-14-101	00