FOUNDATION

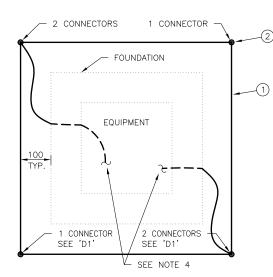
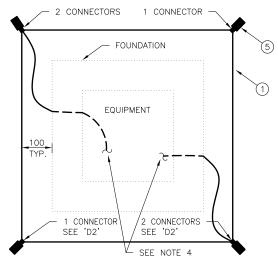
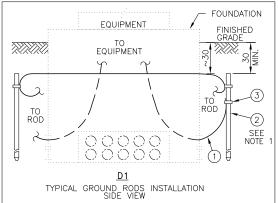
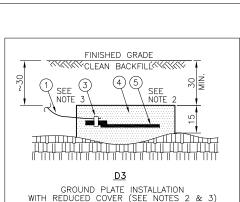


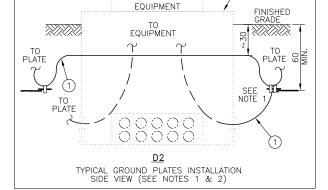
FIG. 1 GROUND GRID WITH GROUND RODS PLAN VIEW



ALT. 1 GROUND GRID WITH GROUND PLATES PLAN VIEW (SEE NOTES 1 & 2)







- GROUND RODS MAY BE SUBSTITUTED WITH GROUND PLATES ONLY IF GROUND RODS CANNOT BE DRIVEN DUE TO ROCKY GROUND CONDITIONS. MAINTAIN 60cm MINIMUM NATIVE SOIL COVER OVER PLATES, 30cm MINIMUM OVER GROUND RODS AND APPROX. 30cm OVER GROUND WIRE(S).
- PLATES INSTALLED WITH LESS THAN 60cm OF COVER MUST BE INSTALLED PER 'D3'. EACH GROUND PLATE REQUIRES MINIMUM ONE BAG OF G.E.M. PLATE TO BE CENTERED WITHIN MIXTURE.
- MECHANICAL PROTECTION (7.5cm OF CONCRETE, 20MPa MIN. STRENGTH) IS REQUIRED OVER PLATES AND GROUND WIRES FOR BURIAL DEPTHS LESS THAN 30cm.
- 4. LEAVE MINIMUM 2m COIL OF #4 AWG BARE COPPER WIRE IN FOUNDATION FOR FINAL CONNECTION TO EQUIPMENT.

	PARTS LIST					
PART MM No.		DESCRIPTION	QTY. FIG.1 ALT.1			
140.				ALT.1		
1	30014480	CONDUCTOR, BARE, COPPER, #4 AWG	A/R	A/R		
		GROUND ROD, 3/4" x 10', GALV.	4	N/A		
		CONNECTOR, GROUND ROD TO #4 AWG COPPER WIRE	6	6		
		REDUCED DUST GROUND ENHANCEMENT MATERIAL (G.E.M.)	N/A	A/R		
5	30025401	GROUND PLATE, GALV., 10" x 16", C/W 8" BAR	N/A	4		
ММ	MM# = REFER TO SECTION 16 ONLY A/R = AS REQUIRED					
	\triangle = SUPPLIED WITH EQUIPMENT N/A = NOT APPLICABLE					

1	ММ	Drawn By: GJ	Checked By: PC
		Scale: N.T.S.	Date: (yyyy/n 2020/03/
_	ann		/

M.MATEVSKI P.Eng M.MATEVSKI

Design Approved By: nm/dd) 12

CHANGED TO NEW DWG. & NUMBERING FORMAT. hydro<u>ne</u> Hydro One Networks Inc.

ORIGINAL DU-14-101-RO IS NOW SUPERSEDED BY

THIS NEW DRAWING/REVISION.
GENERAL UPDATES. CHANGED TO NEW SECTION 12.

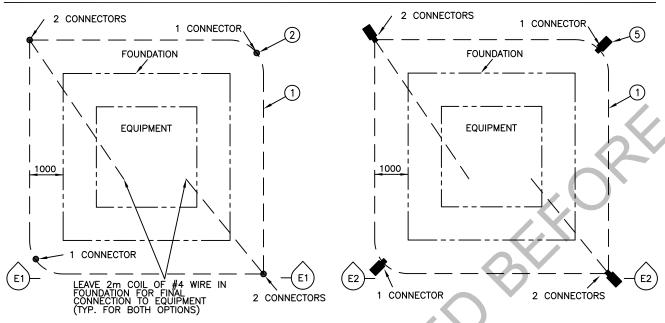
ormation contained in this drawing is considered to be confidential. Recipients r its intended purpose and shall take necessary measures to prevent disclosure or t

GROUNDING FOR PAD-MOUNTED EQUIPMENT - TYPICAL CONCRETE FOUNDATION INSTALLATIONS WITH GROUND ROD OR GROUND PLATE

DU12-101-0500

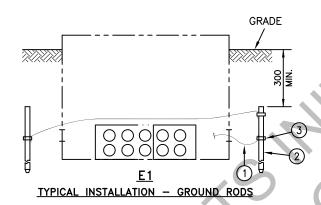
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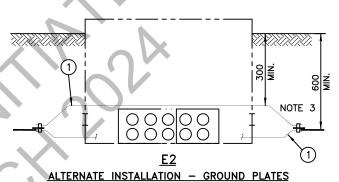
ALL DIMENSIONS IN CENTIMETRES UNLESS OTHERWISE STATED



PLAN VIEW OF GROUND GRADIENT GRID

PLAN VIEW OF GROUND GRADIENT GRID

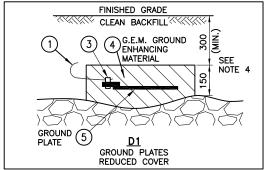




		PARTS LIST			
PART No.	MM No.	DESCRIPTION	QTY.		
1	30014488	BARE CONDUCTOR, COPPER, #4 AWG	A/R		
		ROD, GROUND, 19mm x 3m, GALV.	4		
3	30006646	CONNECTOR, GRD. WEDGE, GROUND ROD TO #4 COPPER WIRE	6		
4	30025402	GROUND ENHANCING MATERIAL (G.E.M.)	A/R		
5	30025401	GROUND PLATE	4		
MM#	MM# = REFER TO SECTION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

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 MPg CONCRETE) IS REQUIRED OVER PLATES AND GROUND WIRES FOR BURIAL DEPTHS LESS THAN 300mm.

			:	hydro	Hydro On	e Networks Inc.
*	*	* .	*	′ one		
	*	*	* *	Drawn:	Approved:	Date:
Rev.	Issue Date	Revision	Dwn Approved By	LS	* '	NOV.26,2013
NO.	Date		Chk Date	PAD-MOUNTE	D EQUIPMENT GRO	UNDING DETAILS
copied, medla o	© Copyright Hydro One Networks Inc. All rights reserved. This drawing may not be reproduced or copied, in whole or in part, in any printed, mechanical, electronic, film, or other distribution and storage medla or used In any Information storage or retrieval system outside of Hydro One Networks Inc., without the written consent of Hydro One Networks Inc.			TYPICAL (CONCRETE FOLINDATION)		
Informat drawing	Information contained in this drawing is considered to be confidential. Recipients shall only use the drawing for its intended purpose and shall take necessary measures to prevent disclosure or transmittal to outside parties.			Dwg. No.	U-14-101	Rev. 00