

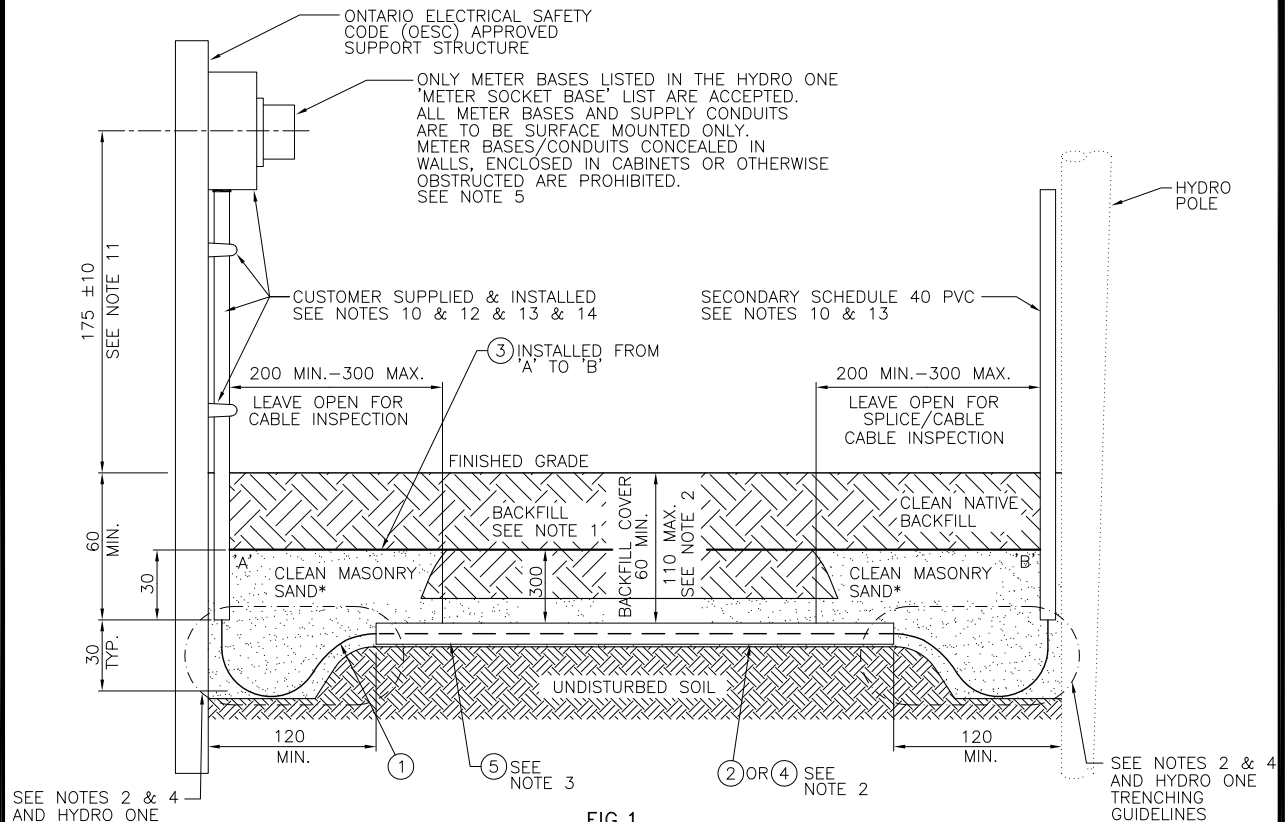
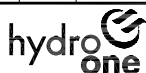


FIG. 1
TYPICAL INSTALLATION WITH SLACK LOOP TRANSITION

FOR SHEET 2 OF THIS DRAWING SEE DU15-132-0501

ALL DIMENSIONS IN CENTIMETRES
UNLESS OTHERWISE STATED

02	MAY 2026	UPDATED PART #5 DESCRIPTION, AND NOTE #3 TO CONFORM WITH AN ENGINEERING MATERIAL CATALOG.	PC	MM	VM	MM
01	SEPT 2023	DIRECT BURIED CONTENT FROM ORIGINAL DU-03-209.1-0500-R05 IS NOW SUPERSEDED BY THIS NEW DRAWING/REVISION. CHANGED TO SECTION 11. FOR ALL-IN-DUCT AND FLEXIBLE CONDUIT TRANSITIONS REFER TO DU11-102-0500/0501/0502.	PC	MM	MM	MM
Rev No.	Date	Revision Particulars	dwn	ckd	des	app



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PARTS LIST			
PART No.	MM No.	DESCRIPTION	QTY.
1	30005908	SERVICE CABLE, 3/0 AWG, 3-COND., AL.	A/R
	30005915	SERVICE CABLE, 250Kcmil, 3-COND., AL.	
	30005959	SERVICE CABLE, 500Kcmil, 3-COND., AL.	
2	30007710	CONDUIT, PVC, 4", DB2	A/R
3	20002181	CAUTION TAPE, BURIED ELECTRIC LINE	A/R
4	30007583	CONDUIT, 4", SCHEDULE 40, PVC	A/R
5	20000007	TAPE, PULLING, 5/8" WIDE, POLYESTER	A/R
MM# = REFER TO SECTION 16 ONLY			A/R = AS REQUIRED
* = SUPPLIED BY CUSTOMER			

Drawn By: PC	Checked By: M.MATEVSKI	Designed By: M.MATEVSKI	Design Approved By: M.MATEVSKI P.Eng.
Scale: N.T.S.	Date: (yyyy/mm/dd) 2022/10/11	Pole ID:	

Title:
TRENCH DETAIL – SECONDARY SERVICE CABLE
FROM DIP POLE TO METER BASE
DIRECT BURIED

Drawing No. DU15-132-0500	Rev. No. 02
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NOTES:

1. BACKFILL: ENSURE DB2 OR SCHEDULE 40 PVC CONDUIT IS ENVELOPED WITH MASONRY SAND UPON INSTALLATION (7.5cm MINIMUM BELOW AND 15cm MINIMUM ABOVE). REMAINDER OF BACKFILL MUST BE CLEAN AND FREE OF DEBRIS TO PREVENT DAMAGE TO THE DUCT. BACKFILL SHALL BE WELL TAMPED.
2. STRAIGHT DUCT SHALL BE EMPLOYED IN THE TRENCH TO HOUSE THE CABLE. IT SHALL BE 100mm (4") DIAMETER PVC TYPE DB2 OR SCHEDULE 40 CONDUIT. THE ENDS OF THE DUCT SHALL BE CAPPED OR BAGGED TO PREVENT DEBRIS AND MOISTURE FROM ENTERING THE DUCT PRIOR TO CABLE INSTALLATION. IF OPEN TRENCH ENDS MUST BE LEFT UNATTENDED AFTER CABLE INSTALLATION, INSTALL THE OPTION WITH A LENGTH OF FLEXIBLE CONDUIT TO MAKE 90° TRANSITION, PER DU11-102-0500, AS CABLE SHALL NOT BE LEFT EXPOSED.
3. PULL TAPE: A 5/8" WIDE POLYESTER PULLING TAPE MUST BE INSTALLED THROUGH THE ENTIRE LENGTH OF THE DUCT.
4. RADIUS MUST BE GREATER THAN THE SPECIFIED CABLE MINIMUM BENDING RADIUS.
5. INSTALL METER COMPARTMENT AS PER ONTARIO ELECTRICAL SAFETY CODE (OESC), USE ONLY HYDRO ONE APPROVED METER BASES LISTED IN THE HYDRO ONE 'METER SOCKET BASE' LIST. METER BASE TO MAINTAIN 1M MINIMUM CLEARANCE FROM DISCHARGE OF ANY COMBUSTIBLE GAS RELIEF DEVICE OR VENT.
6. TELECOMMUNICATION PLANT MAY SHARE SERVICE TRENCH BUT MUST BE INSTALLED IN ITS OWN CONDUIT.
7. PREFERRED ROUTING FOR GAS SERVICE SHALL BE ON OPPOSITE SIDE OF THE BUILDING THAN THAT OF THE ELECTRICAL SERVICE. IF COMMON TRENCHING IS UNAVOIDABLE, 30cm MINIMUM CLEAR SEPARATION SHALL BE MAINTAINED IN ALL DIRECTIONS BETWEEN GAS SERVICE AND ELECTRICAL SUPPLY CABLE.
8. CLEARANCES, DEPTHS, SEPARATIONS AND FORMS OF MECHANICAL PROTECTION OF THE CABLE ARE MINIMUM REQUIREMENTS. INCREASED CLEARANCES AND OR ADDITIONAL FORMS OF MECHANICAL PROTECTION ARE CONSIDERED POSITIVE DEVIATIONS AND ARE ALLOWED.
9. IF FURTHER TRENCHING ALONG ROAD ALLOWANCE IS REQUIRED, IT SHALL BE CONSTRUCTED PER HYDRO ONE STANDARD TRENCH PROFILES.
10. RISER CONDUIT TO BE EASILY REMOVED BY HYDRO ONE FOR CABLE INSTALLATION PURPOSES.
11. FINAL METER BASE HEIGHT IN REFERENCE TO FINISHED GRADE.
12. CUSTOMER SUPPLIED AND INSTALLED CONDUIT, METER BASE, CLAMPS AND ASSOCIATED HARDWARE INSTALLED PER ONTARIO ELECTRICAL SAFETY CODE (OESC).
13. THE METER BASE AND DIP POLE CONDUITS WILL VARY IN SIZE DEPENDING ON CONDUCTOR SIZE (i.e. 2" DIAMETER FOR 3/0 AWG, 3" FOR 250 kcmil OR 500 kcmil CONDUCTOR). ONLY ONE SERVICE CABLE PERMITTED PER CONDUIT.
14. THE SUPPLY SERVICE CABLE AT THE METER BASE SHALL BE HOUSED IN ITS OWN DISTINCT CUSTOMER SUPPLIED CONDUIT (CONDUIT SHALL NOT HOUSE ANY OTHER PLANT), AND SHALL NOT HAVE ANY ACCESS PORT (LB CONDUIT FITTING, JUNCTION BOX, ETC.). ANY MODIFICATION TO CUSTOMER OWNED METER-BASE WHICH VOIDS CSA CERTIFICATION IS NOT PERMITTED.

Hydro One trenching guidelines (not for new construction):
Secondary service trench with supply taken from dip pole
per Hydro One Networks Inc. standard drawing DU15-132-0500

Note: This installation standard is to be used as a reference only for existing installations designed to this standard and for like-for-like replacements.

The installation options listed below explain Hydro One Networks' Standard (DU15-132-0500) for the installation of Hydro One owned single-phase secondary underground cables. Regardless of who installs the cable, the trench must be constructed per DU15-132-0500/0501.

Note: Option described below requires that the cable installer crew must perform their work with a coordinated site visit with the trench installer. For new construction options see DU11-102-0500/0501/0502.

Option 1 (requires minimum cover of 60cm): Direct buried cable encapsulated in masonry sand at trench ends as shown in DU15-132-0500 – Fig.1

- The trench can be backfilled, excluding open pit area, at either end of trench prior to cable installation.
- The trench must be backfilled with clean masonry sand in areas indicated in DU15-132-0500 and clean native backfill to finished grade immediately after installation of cable.

If the trench end(s) is(are) temporarily left open see new construction drawing DU11-102-0500.

Option 2 (reduced cover): Schedule 40 PVC / flexible conduit, and sweeps

- See new construction drawing DU11-102-0500.

NOTE: If any discrepancies between this document and the referenced standard are found, the standard shall prevail. It is the customer's responsibility to ensure compliance to the standard. Not complying with the standard will result in Hydro One not completing their work and an "extra trip charge" being applied.

FOR SHEET 1 OF THIS DRAWING SEE DU15-132-0500

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Title:
TRENCH DETAIL – SECONDARY SERVICE CABLE FROM DIP POLE TO METER BASE DIRECT BURIED

Drawing No. DU15-132-0501	Rev. No. 02
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