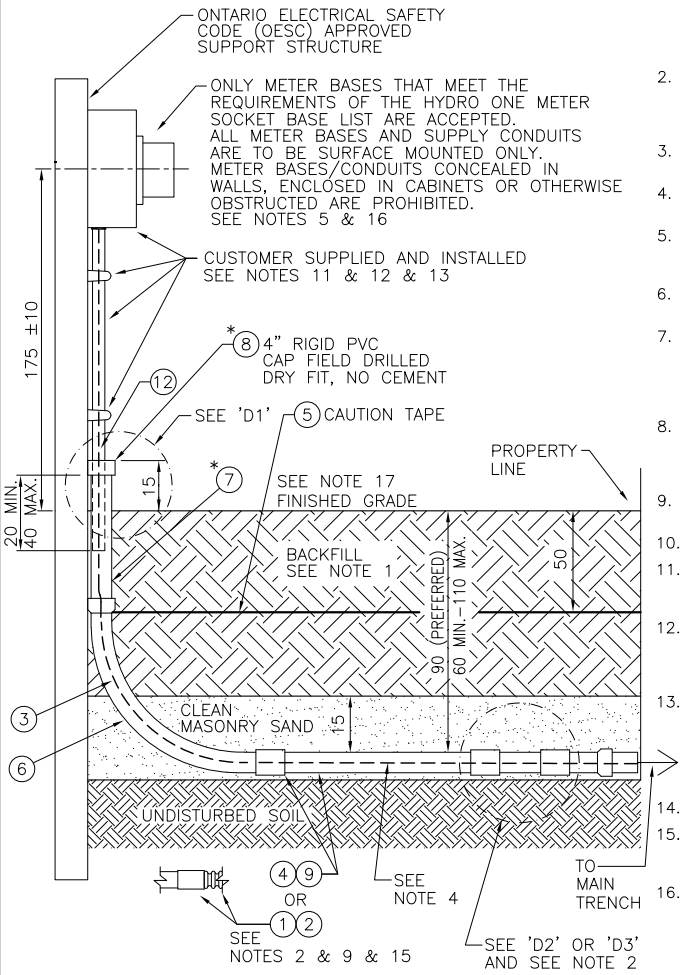
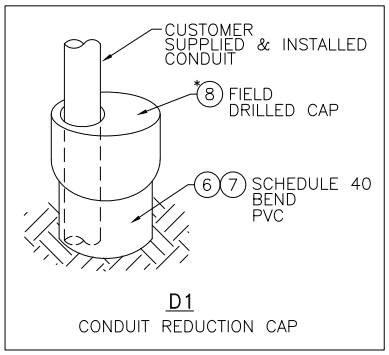


FIG.1

TYPICAL ALL–IN–DUCT TRENCH DETAIL



D1

CONDUIT REDUCTION CAP

FOR SHEET 2 OF THIS DRAWING SEE DU11–103–0501

ALL DIMENSIONS IN CENTIMETRES UNLESS OTHERWISE STATED

NOTES:

1. BACKFILL: ENSURE 5cm CLEAN MASONRY SAND BETWEEN THE TRENCH BASE AND THE DUCTS TO PROTECT THE DUCTS FROM SHARP ROCKS. IF THE TRENCH BOTTOM IS FREE OF SHARP ROCKS THE SAND MAY BE OMITTED. 15cm OF SAND BUFFER SHALL BE PLACED BETWEEN THE DUCTS AND NATIVE BACKFILL. NATIVE BACKFILL MUST BE CLEAN AND FREE OF DEBRIS TO PREVENT DAMAGE TO THE DUCT. BACKFILL SHALL BE WELL TAMPED.
2. WHEREVER POSSIBLE AVOID THE SECONDARY SPLICE AT THE PROPERTY LINE BY INSTALLING A CONTINUOUS DUCT FROM THE TRANSFORMER TO THE METER BASE. IF SPLICE IS REQUIRED, FLEXIBLE CONDUIT SHALL NOT BE USED.
3. THE TRENCH SHOULD BE AS STRAIGHT AS POSSIBLE, TO ENSURE AN OPTIMAL CABLE PULL.
4. PULL TAPE: A 5/8" WIDE POLYESTER PULLING TAPE MUST BE INSTALLED THROUGH THE ENTIRE LENGTH OF THE DUCT.
5. INSTALL METER COMPARTMENT AS PER ONTARIO ELECTRICAL SAFETY CODE (OESC), USE ONLY METER BASES THAT MEET THE REQUIREMENTS OF HYDRO ONE METER SOCKET BASE LIST.
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. FLEXIBLE CONDUIT, WITH APPROVED COUPLER MAY BE INSTALLED, IF SPLICE IS NOT REQUIRED.
10. RADIUS MUST BE GREATER THAN THE SPECIFIED CABLE MINIMUM BENDING RADIUS.
11. CUSTOMER SUPPLIED AND INSTALLED METER BASE, CONDUIT, CLAMPS AND ASSOCIATED HARDWARE INSTALLED PER ONTARIO ELECTRICAL SAFETY CODE (OESC).
12. THE METER BASE 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.
13. 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.
14. FOR TYPICAL TEMPORARY TERMINATION SEE FIG.2.
15. SCHEDULE 40 PVC CONDUIT AND ASSOCIATED FITTINGS ARE ACCEPTABLE POSITIVE DEVIATION, IF DB2 CONDUIT IS NOT AVAILABLE, PROVIDED SEPARATIONS SPECIFIED ON THIS DRAWING ARE MAINTAINED.
16. METER BASE TO MAINTAIN 1m MINIMUM CLEARANCE FROM DISCHARGE OF ANY NATURAL GAS RELIEF DEVICE OR VENT. IF 1m CLEARANCE IS NOT AVAILABLE IT CAN BE REDUCED TO 0.3m MINIMUM CLEARANCE WHICH IS ONLY APPLICABLE IF REGULATORS EQUIPPED WITH CERTIFIED OVERPRESSURE CUT–OFF/SHUT–OFF WITH LIMITED OR NO RELIEF IS INSTALLED FOR THE GAS DISCHARGE OPENING. THE OVERPRESSURE RELIEF DEVICES MUST BE MARKED "LR–OPCO", "P–OPCO" OR "OPSO". METER BASE TO MAINTAIN MINIMUM CLEARANCE OF 3m FROM THE VALVE OF A PROPANE TANK WITH A CAPACITY OF 475–3800L OR 7.5m FROM THE VALVE ON A PROPANE TANK WITH CAPACITY GREATER THAN 3800L.
17. IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THAT THE TRENCH END IS BACKFILLED AFTER CABLE INSTALLATION.

PARTS LIST

PART No.	MM No.	DESCRIPTION	QTY.
1	30031918	COUPLER KIT, 4", FLEX TO 4" RIGID	A/R
2	30031917	CONDUIT, FLEX, 4"	A/R
3	30005908 30005915 30005959	SERVICE CABLE, 3/0 AWG, 3–COND., AL. SERVICE CABLE, 250Kcmil, 3–COND., AL. SERVICE CABLE, 500Kcmil, 3–COND., AL.	A/R
4	30007710	CONDUIT, PVC, 4", DB2	A/R
5	20002181	CAUTION TAPE, BURIED ELECTRIC LINE	A/R
6	30007687	SWEEP, 4" x 16" RADIUS, SCHEDULE 40, PVC	A/R
7	30007583	CONDUIT, 4", SCHEDULE 40, PVC	A/R
8	30031602	CAP, 4", SCHEDULE 40, PVC	A/R
9	30031626	COUPLER, 4", DB2 TO 4" RIGID	
10	30003292	COUPLER, PVC DUCT, PUSH FIT, 4"	A/R
11	30031628	CONDUIT, 4", SPLIT DB2	A/R
12	20000007	TAPE, PULLING, 5/8" WIDE, POLYESTER	A/R
13	30006695 30006455 30006397	CONNECTOR, SPLICE, 600V, 3/0 AWG CONNECTOR, SPLICE, 600V, 250Kcmil CONNECTOR, SPLICE, 600V, 500Kcmil	A/R
14	30008346 30013875	COLD SHRINK, 600V, 2/0 AWG–250Kcmil COLD SHRINK, 600V, 500Kcmil	A/R
15	30013701	SWEEP, 4" x 16" RADIUS, PVC, FOR DB2	A/R

MM# = REFER TO SECTION 16 ONLY | A/R = AS REQUIRED

* = SUPPLIED BY CUSTOMER

Rev No.	Date	Revision Particulars	dwn	ckd	des	app
03	JUNE 2026	UPDATED REFERENCE TO METER BASE REQUIREMENTS ON FIG. 1 AND NOTE 5. UPDATED NOTE 16 TO INCLUDE CLEARANCE REQUIREMENTS FOR PROPANE TANKS. UPDATED PULLING TAPE DESCRIPTION FOR PART #12 AND IN NOTE 4.	PC	MM	VM	MM
02	JUNE 2024	ADDED NOTE 17 AND PROVIDED A REFERENCE TO IT FOR CUSTOMER'S BACKFILLING RESPONSIBILITIES.	GJ	PC	DK	MM

Drawn By:	Checked By:	Designed By:	Design Approved By:
PC	M.MATEVSKI	M.MATEVSKI	M.MATEVSKI P.Eng.
Scale: N.T.S.	Date: (yyyy/mm/dd) 2022/05/03	Pole ID:	

Hydro One Networks Inc.

Title: TRENCH DETAIL – SECONDARY SERVICE CABLE FROM UNDERGROUND ALL–IN–DUCT TRENCH TO METER BASE

Drawing No. DU11–103–0500 Rev. No. 03

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TITLE BLOCK REV 02 – AUGUST 2014

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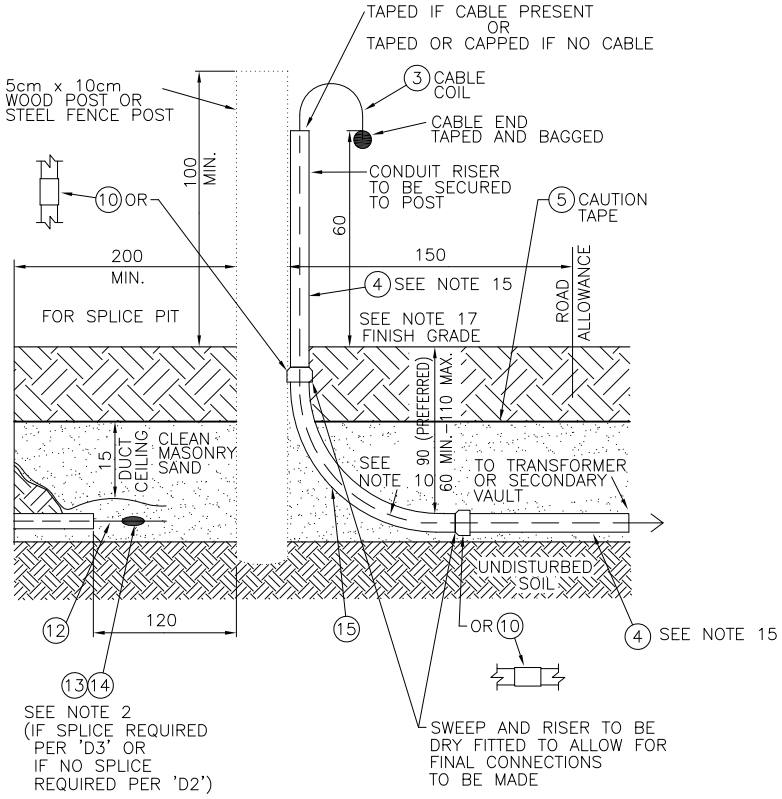
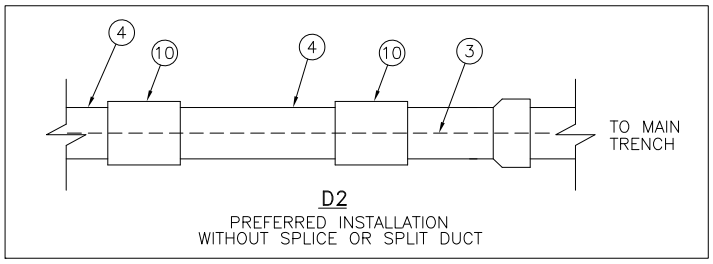


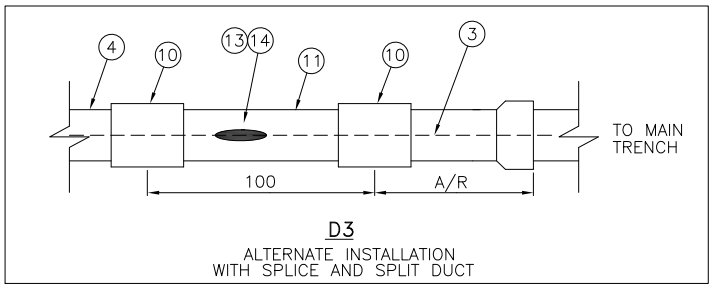
FIG.2

TYPICAL TEMPORARY TERMINATION OF
SECONDARY SERVICE CABLE AT PROPERTY LINE



D2

PREFERRED INSTALLATION
WITHOUT SPLICE OR SPLIT DUCT



D3

ALTERNATE INSTALLATION
WITH SPLICE AND SPLIT DUCT

FOR SHEET 1 OF THIS DRAWING SEE DU11–103–0500

ALL DIMENSIONS IN CENTIMETRES
UNLESS OTHERWISE STATED

Rev No.	Date	Revision Particulars	dwn	ckd	des	app
03	JUNE 2026	UPDATED REFERENCE TO METER BASE REQUIREMENTS ON FIG. 1 AND NOTE 5. UPDATED NOTE 16 TO INCLUDE CLEARANCE REQUIREMENTS FOR PROPANE TANKS. UPDATED PULLING TAPE DESCRIPTION FOR PART #12 AND IN NOTE 4.	PC	MM	VM	MM
02	JUNE 2024	ADDED NOTE 17 AND PROVIDED A REFERENCE TO IT FOR CUSTOMER'S BACKFILLING RESPONSIBILITIES.	GJ	PC	DK	MM

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Scale: N.T.S.	Date: (yyyy/mm/dd) 2022/05/03	Pole ID:	

Title:
TRENCH DETAIL – SECONDARY SERVICE CABLE
FROM UNDERGROUND ALL–IN–DUCT TRENCH
TO METER BASE

Drawing No. DU11–103–0501

Rev. No. 03

A4 (210 x 297) millimetres 0 10 50

Sheet Number: 2 / 2

TITLE BLOCK REV 02 – AUGUST 2014