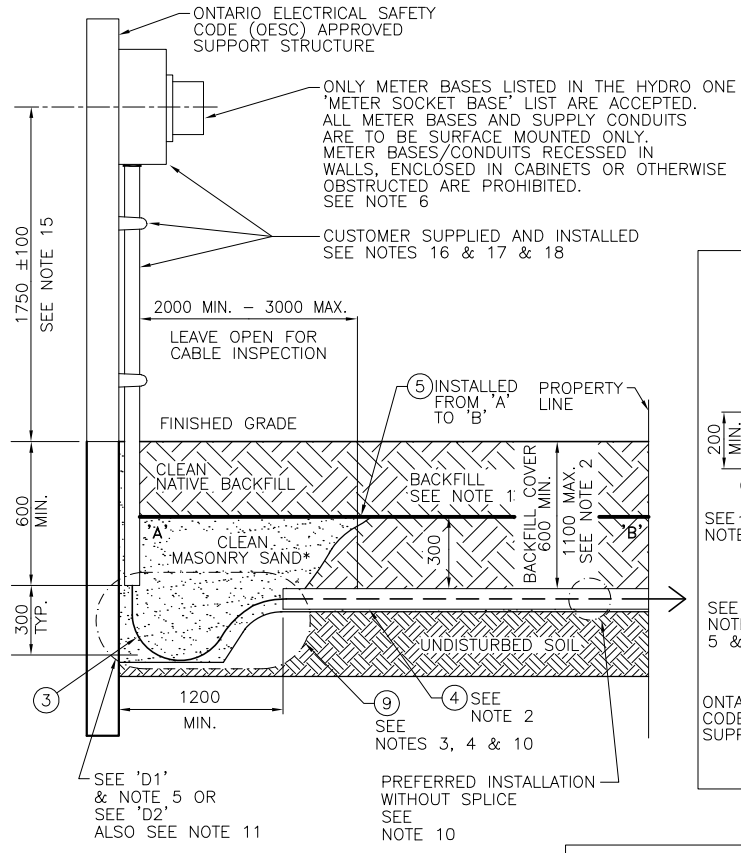
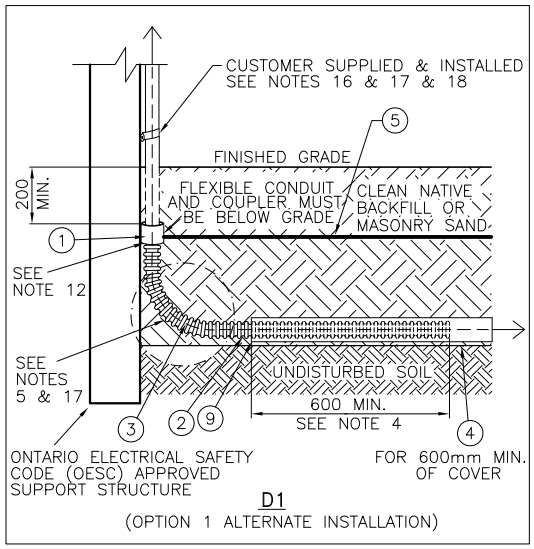
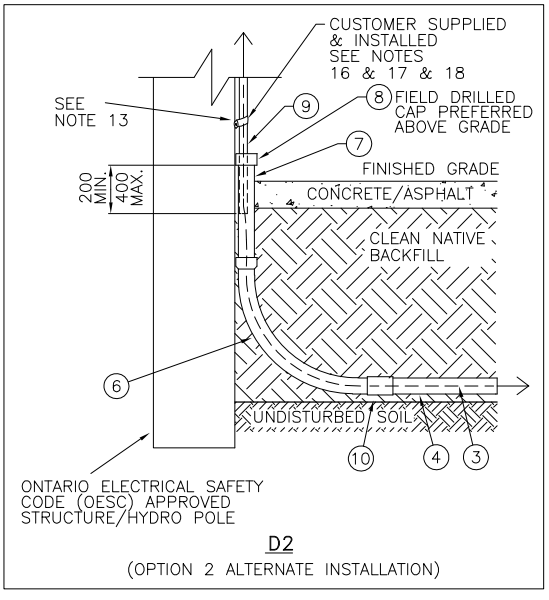




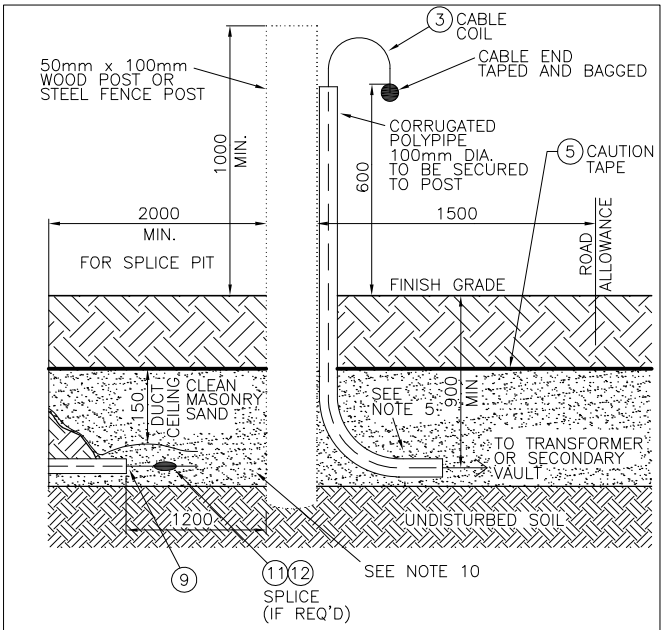
D1

(OPTION 1 ALTERNATE INSTALLATION)



D2

(OPTION 2 ALTERNATE INSTALLATION)



D3

SPLICE ALTERNATE

FOR SHEET 2 OF THIS DRAWING SEE DU–03–209–0501

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

Rev No.	Date	Revision Particulars	dwn	ckd	des	app
06	FEB 2022	UPDATED PART #1,2,11 & 12. UPDATED NOTES 4 & 17. ADDED NOTE 18. UPDATED D1 LAYOUT. DIMENSION UPDATE IN D2.	PC	MM	KA	MM
05	SEPT 2020	REMOVED 2" OPTION, UNIVERSAL SIZE. MODIFIED PARTS 1,2,6 & 7 AND MM# OF PART #8 AND NOTES 1,2,4 & 6 AND MAIN FIG., D1, D2, & D3. ADDED NEW NOTES 15,16 & 17. REMOVED PREVIOUS PART #9 (STRAPS). INTRODUCED GENERIC SUPPORT STRUCTURE FOR CUSTOMER INSTALLATION.	PC	SJ	SJ	MM

hydro one **Hydro One Networks Inc.**

Drawn By:	Checked By:	Designed By:	Design Approved By:
L.SEQUEIRA			
Scale: N.T.S.	Date: (yyyy/mm/dd) 2012/08/30	Pole ID:	

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

Drawing No. DU–03–209–0500

Rev. No. 06

A4 (210 x 297) millimetres 0 10 50

Sheet Number: 1 / 2

TITLE BLOCK REV 02 – AUGUST 2014

NOTES:

1. BACKFILL: ENSURE DB2 CONDUIT IS ENVELOPED WITH MASONRY SAND UPON INSTALLATION (75mm MINIMUM BELOW AND 150mm 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 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, SEE DU–03–209–0500 OPTION 1, WITH A LENGTH OF FLEXIBLE CONDUIT TO MAKE 90° TRANSITION.

   SEE OPTION 2 FOR ALTERNATE METHODS.
3. PULL TAPE: A 1/2" WIDE POLYESTER PULLING TAPE MUST BE INSTALLED THROUGH THE ENTIRE LENGTH OF THE DUCT.
4. INSERT FLEXIBLE CONDUIT 600mm IN THE DB2 CONDUIT. THE SIZE OF THE FLEXIBLE CONDUIT WILL VARY BASED ON THE CONDUCTOR SIZE.
5. RADIUS MUST BE GREATER THAN THE SPECIFIED CABLE MINIMUM BENDING RADIUS.
6. 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.
7. TELECOMMUNICATION PLANT MAY SHARE SERVICE TRENCH BUT MUST BE INSTALLED IN ITS OWN CONDUIT.
8. PREFERRED ROUTING FOR GAS SERVICE SHALL BE ON OPPOSITE SIDE OF THE BUILDING THAN THAT OF THE ELECTRICAL SERVICE. IF COMMON TRENCHING IS UNAVOIDABLE, 300mm MINIMUM CLEAR SEPARATION SHALL BE MAINTAINED IN ALL DIRECTIONS BETWEEN GAS SERVICE AND ELECTRICAL SUPPLY CABLE.
9. 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.
10. IF THE TRENCH END MUST BE TEMPORARILY LEFT OPEN BECAUSE BACKFILLING CANNOT OCCUR IMMEDIATELY AFTER CABLE INSTALLATION, INSTALL PER 'D1' OR 'D2'. IF SPLICE AT LOT LINE CANNOT BE AVOIDED, INSTALL AS PER 'D3'. IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE BOTH TRENCH ENDS ARE BACKFILLED AFTER CABLE INSTALLATION.
11. IF CABLE AT THE METER BASE END IS UNDER CONCRETE OR ASPHALT, INSTALL AS PER 'D2'.
12. FLEXIBLE CONDUIT, RIGID CONDUIT AND COUPLER MUST BE BELOW GRADE.
13. RISER CONDUIT TO BE EASILY REMOVED BY HONI FOR CABLE INSTALLATION PURPOSES.
14. IF FURTHER TRENCHING ALONG ROAD ALLOWANCE IS REQUIRED, IT SHALL BE CONSTRUCTED PER HYDRO ONE STANDARD TRENCH PROFILES.
15. FINAL METER BASE HEIGHT IN REFERENCE TO FINISHED GRADE.
16. CUSTOMER SUPPLIED AND INSTALLED, METER BASE, CLAMPS AND ASSOCIATED HARDWARE INSTALLED PER ONTARIO ELECTRICAL SAFETY CODE (OESC).
17. 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). FLEXIBLE CONDUIT WILL ALSO VARY IN SIZE (i.e. 2" OR 3" FOR 3/0 AWG OR 3" FOR 250 kcmil OR 500 kcmil CONDUCTOR) WHEN USED TO CONNECT THE RISER CONDUIT TO THE HORIZONTAL DUCT. APPROPRIATELY SIZE COUPLERS (SHOWN AND LISTED IN THE PARTS LIST) SHALL BE USED TO CONNECT THE SCHEDULE 40 PVC TO THE FLEXIBLE CONDUIT.
18. 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).

PARTS LIST

PART No.	MM No.	DESCRIPTION	QTY.
1	30030348 30031161 30030236	COUPLER KIT, 2", FLEX TO 2" RIGID COUPLER KIT, 3", FLEX TO 2" RIGID COUPLER KIT, 3", FLEX TO 3" RIGID	A/R
2	30030366 30030235	CONDUIT, FLEX, 2" CONDUIT, FLEX, 3"	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	20000007	TAPE, PULLING, 1/2" WIDE, POLYESTER	A/R
10	30031626	COUPLER, 4", DB2 TO 4" RIGID	A/R
11	30006695 30006455 30006397	CONNECTOR, SPLICE, 600V, 3/0 AWG CONNECTOR, SPLICE, 600V, 250Kcmil CONNECTOR SPLICE, 600V, 500Kcmil	A/R
12	30008346 30013875	COLD SHRINK, 600V, 2/0 AWG–250Kcmil COLD SHRINK, 600V, 500Kcmil	A/R

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

∗ = SUPPLIED BY CUSTOMER

FOR SHEET 1 OF THIS DRAWING SEE DU–03–209–0500

ALL DIMENSIONS IN MILLIMETRES
UNLESS OTHERWISE STATED

Rev No.	Date	Revision Particulars	dwn	ckd	des	app
06	FEB 2022	UPDATED PART #1,2,11 & 12. UPDATED NOTES 4 & 17. ADDED NOTE 18. UPDATED D1 LAYOUT. DIMENSION UPDATE IN D2.	PC	MM	KA	MM
05	SEPT 2020	REMOVED 2" OPTION, UNIVERSAL SIZE. MODIFIED PARTS 1,2,6 & 7 AND MM# OF PART #8 AND NOTES 1,2,4 & 6 AND MAIN FIG., D1, D2, & D3. ADDED NEW NOTES 15,16 & 17. REMOVED PREVIOUS PART #9 (STRAPS). INTRODUCED GENERIC SUPPORT STRUCTURE FOR CUSTOMER INSTALLATION.	PC	SJ	SJ	MM

hydro one **Hydro One Networks Inc.**

Drawn By:	Checked By:	Designed By:	Design Approved By:
L.SEQUEIRA			
Scale: N.T.S.	Date: (yyyy/mm/dd) 2012/08/30	Pole ID:	

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

Drawing No. DU–03–209–0501 Rev. No. 06

A4 (210 x 297) millimetres 0 10 50

Sheet Number: 2 / 2

TITLE BLOCK REV 02 – AUGUST 2014