

LINE TYPES

---	OVERHEAD - 1PH	---	UNDERGROUND - 1PH
---	OVERHEAD - 2PH	---	UNDERGROUND - 2PH
---	OVERHEAD - 3PH	---	UNDERGROUND - 3PH
---	OVERHEAD - SAC	---	UNDERGROUND - SAC
---	OVERHEAD - Piv. 1PH	---	UNDERGROUND - Piv. 1PH
---	OVERHEAD - Piv. 2PH	---	UNDERGROUND - Piv. 2PH
---	OVERHEAD - Piv. 3PH	---	UNDERGROUND - Piv. 3PH
---	SUBMERSIVE - 1PH	---	UNDERGROUND - Piv. 3PH
---	SUBMERSIVE - 2PH	---	UNDERGROUND - 3PH

SYMBOLS

PROPOSED POLE - Wood, Composite, Steel, Joint Use/Customer
 EXISTING POLE - Wood, Composite, Steel, Joint Use/Customer
 O/A - U/G TRANSITION (DP/RSR) - Primary, Secondary
 AND/OR OVERHEAD - Piv. - Piv. Piv. Joint Use, Push Pull
 OVERHEAD SWITCH - Fused, Solid, Line Operer
 OVERHEAD SWITCH - OCR, Electronic OCR, FT
 WORK LOCATION
 UNDERGROUND VAULT - 1PH, 3PH
 CAPACITOR - 1PH, 3PH
 OVERHEAD REGULATOR - 1PH, 3PH
 OVERHEAD TRANSFORMER - 1PH, 3PH
 OVERHEAD STEP TRANSFORMER - 1PH, 3PH
 UNDERGROUND STEP TRANSFORMER - 1PH, 3PH
 UG TRANSFORMER - 1PH (with allow position), 1PH PVT, Transcrouse
 UG TRANSFORMER - 3PH (without test Facility 0.5 kVA, Phase, # of services)

COLOR SCHEME

Existing
 Hydro One or Contractor
 Hydro One Only
 Work by Others (HNI/DC)
 Work by Customer

NOTES:

- ALL DIMENSIONS ARE IN mm UNLESS STATED OTHERWISE.
- ALL SEPARATIONS AND DEPTHS OF BURIAL ARE MINIMUM.
- IF MINIMUM DEPTH OF COVER AS NOTED IN THE ABOVE TRENCH PROFILES IS EXCEEDED, SLOPING OF TRENCH WALLS AND/OR SHORING SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN THE OCCUPATIONAL HEALTH AND SAFETY ACT.
- ALL SECONDARY SERVICE TRENCHES ARE TO BE 3 PARTY ONLY. CONCRETE ENCASMENT PER DUS-112 REQUIRED IF MINIMUM COVER IDENTIFIED ON DUS-111 CANNOT BE MAINTAINED.
- TOP AND SIDES OF DUCTS SHALL BE SURROUNDED BY RAKED AND COMPACTED CLEAN MASONRY SAND. CLEAN NATIVE BACKFILL TO BE RAKED AND COMPACTED, AND WITHOUT STONES AND SHARP OBJECTS. REFER TO BACKFILLING DETAILS, SECTION 3 OF U/G DISTRIBUTION STANDARDS 2023 EDITION.
- SECONDARY CABLES TO BE INSTALLED AT LOT LINE AS PER DUS-111-103-F2. 50 X 100mm POST AND 100mm RIGID PIPE TO BE SUPPLIED AS PART OF CIVIL WORKS.
- SECONDARY SERVICE TO BE COMPRESSION TYPE ONLY.
- IF APPLICABLE, GAS METER MUST MAINTAIN A MINIMUM SEPARATION OF 1m FROM HYDRO METER.
- MINIMUM HORIZONTAL CLEARANCES BETWEEN HONI DISTRIBUTION EQUIPMENT (CSDWA) & OTHER UTILITY EQUIPMENT ARE TO BE PER TABLE 1, SECTION 6-2 OF THE U/G DISTRIBUTION STANDARDS 2023 EDITION.
- ALL SECONDARY CONDUCTOR TO BE 3/0 ALUMINUM UNLESS SPECIFIED OTHERWISE.
- ALL UNDERGROUND PRIMARY CONDUCTOR TO BE 2/0 ALUMINUM UNLESS SPECIFIED OTHERWISE.

U/G TRANSFORMERS & KIOSKS:

- BACK OF TRANSFORMER TO BE LOCATED AS PER MUNICIPAL SPECIFICATION.
- ALL TRANSFORMERS MUST BE LOCATED AT LEAST 3m FROM SURFACE OBJECTS AND STRUCTURES, OPENINGS OR COMBUSTIBLE MATERIALS ON OPERATING SIDE, 1m ON ALL OTHER SIDES.
- ALL PADMOUNT TRANSFORMERS ARE TO BE POSITIONED SO THAT THE ACCESS DOOR OPENS FROM THE ROAD SIDE, UNLESS OTHERWISE SPECIFIED.
- REFER TO SECTION 4 OF THE U/G DISTRIBUTION STANDARDS 2023 EDITION FOR VAULT SPECIFICATIONS. ALL SINGLE PHASE PAD-MOUNTED TRANSFORMER VAULTS ARE TO BE 450mm DEEP PRECAST CONCRETE FOUNDATION (1 PIECE) AS PER DUS-101 THE HONI APPROVED MATERIAL LIST.
- PROTECTIVE BOLLARDS ARE REQUIRED IF TRANSFORMER IS LOCATED LESS THAN 1m FROM DRIVEWAY OR BACK OF CURB. (AS PER HONI DWG. DUS-107).
- SINGLE PHASE TRANSFORMERS AND KIOSKS TO BE INSTALLED AS PER HONI DRAWINGS: DUS-101, DUS-102, DUS-103, DUS-104-102, DUS-104-302, DUS-104-303, DUS-104-304, DUS-108, DUS-101.
- THREE PHASE TRANSFORMERS AND KIOSKS TO BE INSTALLED AS PER HONI DRAWINGS: DUS-101, DUS-102, DUS-103, DUS-104-202, DUS-104-302, DUS-104-303, DUS-104-304, DUS-108, DUS-101.
- SINGLE PHASE TRANSFORMERS AND KIOSKS - NON-CONTESTABLE STANDARDS DUS-101, DUS-102, DUS-103, DUS-104-101.
- THREE PHASE TRANSFORMERS AND KIOSKS - NON-CONTESTABLE STANDARDS DUS-201, DUS-202, DUS-203.
- SPARE DUCTS FOR SECONDARY ROAD CROSSINGS SHALL BE INSTALLED BACK TO THE SERVING TRANSFORMER'S VAULT.

DUCTS:

- HYDRO DUCTS TO BE 100mm TYPE II PVC UNLESS OTHERWISE NOTED.
- BELL ENDS TO BE PLACED ON ALL OPEN DUCT ENDS.
- UNUSED DUCTS TO BE CAPPED, C/W 1/2" WIDE, 1/16" THICK PULLING TAPE (MULETAPE).
- PRIMARY AND SECONDARY CONDUCTORS TO BE INDIVIDUALLY DUCTED C/W SPARE FOR PRIMARY AND INCLUDE ADDITIONAL SPARE AT SECONDARY ROAD CROSSINGS.
- ALL DUCTS TO BE MANDRELLED AND CLEANED AFTER INSTALLATION, WITNESSED BY HYDRO ONE.
- DUCT QUANTITIES SHOWN ARE HYDRO REQUIREMENTS ONLY.
- MINIMUM RADIUS OF DUCT TO BE USED IS 36" UNLESS NOTED OTHERWISE.
- HYDRO ONE MUST BE NOTIFIED OF ANY GRADE CHANGE THAT WOULD ALTER THE DEPTH OF OUR CONDUCTORS.

REVISD: OCT 2024

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hydro one Hydro One Networks Inc.
 DESIGN SERVICES
 SUBDIVISION LAYOUT

LOT(S): 25
 CONCESSION(S): 1
 TOWNSHIP: Berntick
 OPERATION CENTRE: Walkerton

ZSD - Durham Road Subdivision

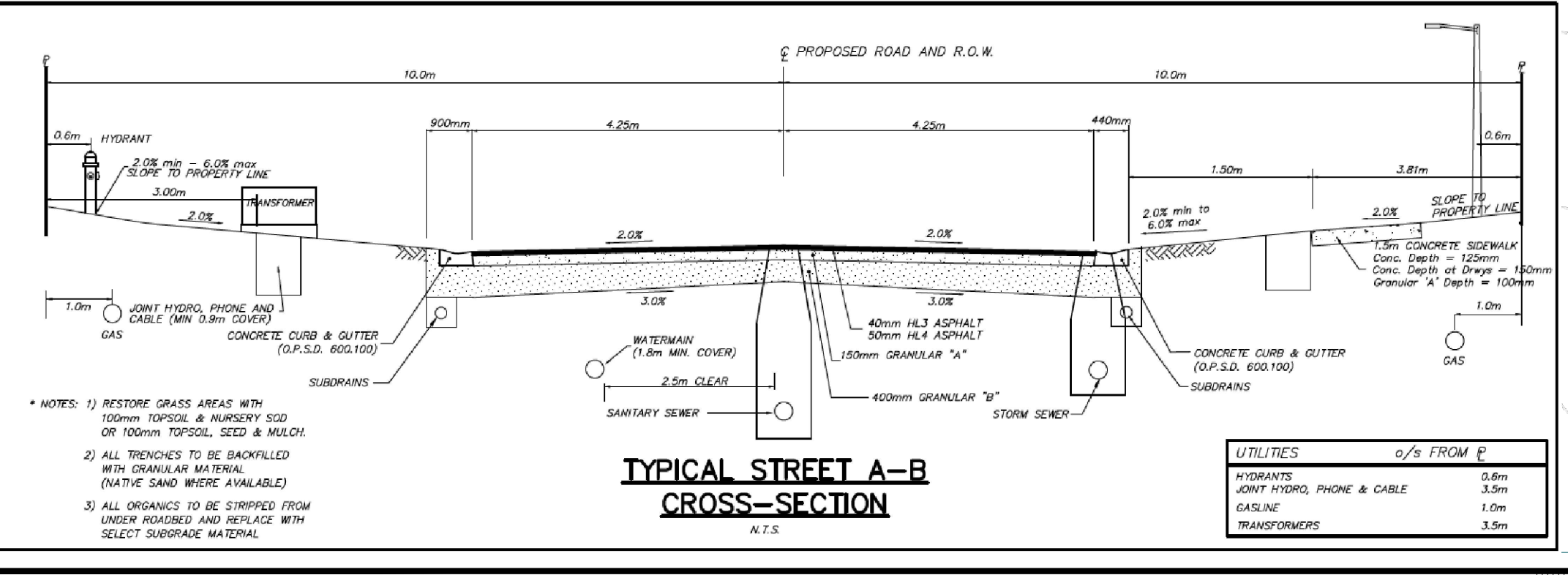
DRAWING NO.: 303804384
 CAD FILE NO.: 64920063

Length of Job or Ext. (km):	0.530	Voltage:	2.4/4.16 kV
Number of Services:	27	Phase(s):	B
DS Station/Feeder:	DURHAM ELGIN DS F1	Station Switch:	88871

Notes:

Drawn By: Kaler, Amritbir
 Approved For Construction By: [Signature]
 Scale: 1:750

Prepared Date: 5/2/2025
 PAGE: 1/11
 Approved For Construction Date: [Signature]
 Rev.: 5/1/2026



CONSTRUCTION NOTE:

- PRIMARY CABLES NOT SERVICING THE PAD-MOUNTED EQUIPMENT IN QUESTION SHALL BY-PASS THE FOUNDATION
- R PHASE IS INSTALLED TO COMPLETE THE LOOP AND ITS NOT SUPPLYING TRANSFORMERS.

****NOTE TO HYDRO ONE LINES/FBC:****
 CONNECTION WORK WILL REQUIRE AN OUTAGE TO BE COORDINATED ON TRF15313, SEE OBLIGATION FOR DETAILS

FINAL APPROVAL

DEVELOPER _____ DATE _____

CONSTRUCTION NOT YET AUTHORIZED

IMPORTANT DESPITE ALL OUTDATED REVISIONS OF THIS PRINT, FOR COPIES OF CURRENT REVISIONS, CONTACT HYDRO ONE NETWORKS INC. LINES ENGINEERING SERVICES-SUBDIVISIONS. PHONE: 1-866-272-3333. EMAIL: ACDRES@hydroone.com

DESIGN SPECIFICATION:
 Construction shall be in accordance with HONI's Overhead v2011 and Underground Distribution Standards 2023 Edition.

DESIGN CRITERIA:

- DISTRIBUTION DESIGN BASED ON 200 AMP SERVICES.
- ESTIMATED BUILDING SIZE 2000 SQFEET.
- APPROVED MAXIMUM METER SET BACK SMALL BARRIERS FROM PROPERTY LINE.
- HEAT SOURCE: NATURAL GAS.

SUBDIVISION TOTALS

Total Underground Length (m):	530	Total Overhead Length (m):	0
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