

## Appendix A – General Conditions to Utility Cut Permanent Restoration

### Abilities and Experience

All Contractors retained by the utility must have completed roadway and roadside municipal construction work for a municipality in the Greater Toronto and Hamilton Area within the past two years.

The Applicant shall not hire suspended or disqualified firms on the City's Temporary Suspension List to work within the City right-of-way.

<https://web.toronto.ca/business-economy/doing-business-with-the-city/search-bid-on-city-contracts/suspended-disqualified-firms/>

### Commencement and Completion

Continuous and progressive operation shall be carried out until the work is completed and in a timely manner.

Clean up and the rectification of any and all deficiencies shall be completed prior to November 1<sup>st</sup> of each calendar year.

### Construction Staging and Phasing

The Contractor shall organize and coordinate the work, such that it progresses in an orderly, continuous manner.

### Standard Specifications and Drawings

The Contractor shall conform to the following standards

- City of Toronto – Construction Standards for Road Works and Sewers and Watermains at [www.toronto.ca/ecs-standards](http://www.toronto.ca/ecs-standards).
- Ontario Provincial Standards – Specifications and Drawings
- Ontario Traffic Manuals.

## Special Specifications

- 1 Underground cables shall be backfilled to grade the same day. Driveways shall be maintained according to City standards.
- 2 Roadside and roadway permanent restoration shall be completed in full prior to the Applicant leaving the work site and before work is completed on the block or street.
- 3 The Applicant shall provide a contact phone number to respond to 311 calls on a 24 hours a day, 7 days a week basis. The Applicant shall provide daily notification to [311contentmanagement@toronto.ca](mailto:311contentmanagement@toronto.ca) of the work locations scheduled for that day.

Applicant/Contractor must notify affected residents and businesses no less than 48 hrs prior to construction.

- 4 The Applicant shall work with the district right-of-way management office to comply with City's current process to address any encroachments that they encounter.
- 5 All sidewalks shall be constructed according to TS 3.70 – *Construction Specification for Concrete Sidewalk and Concrete Raised Medium*.

The Contractor shall match the existing sidewalk, but wherever possible install a minimum 1.8 m – 2.1 m width for new sidewalks

- 2.1 metres for arterial and collector roads
- 1.8 metres for local roads.

At the sole discretion of the City, the Applicant may have to remove and widen other sections of the sidewalk for continuity and for AODA purposes at the sole cost of the Applicant.

- 6 The Applicant shall maintain dust control and keep dust from forming and blowing at all time during construction. Where conditions are such that mud is tracked onto existing pavement or onto adjacent streets, the Contractor shall be required to clean all fouled pavement daily to the satisfaction of the City.

- 7 The site condition after hours shall be made safe and the Applicant shall apply and maintain reflective paint to all exposed vertical edges in the roadway, that are up to 40 mm high, to ensure visibility. Ramping shall be done for vertical edges greater than 40 mm.
- 8 The Contractor shall note that for any location where Trans-Northern, Enbridge Gas, Enbridge Liquid Crude Oil, Sun-Canadian and Sarnia Products pipelines are situated in the right-of-way, no construction operations shall commence in any of these areas until the Contractor has contacted the pipeline authority to either obtain the necessary permit or approval to work in the pipeline zone—30 metres— from the pipe.

Note: Construction operations are defined as related to ground disturbance activities and can include, but are not limited to the following under *CSA Z247 Damage Prevention for the Protection of Underground Infrastructure*

- digging
- excavation
- trenching
- ditching
- tunnelling
- boring/drilling/  
pushing
- augering
- topsoil stripping
- land leveling/grading
- plowing to install  
underground  
infrastructure
- tree planting
- clearing and stump  
removal
- subsoiling
- blasting and use of  
explosives
- quarrying
- grinding and milling  
of asphalt and  
concrete
- seismic exploration
- driving fence posts,  
bars, rods, pins,  
anchors or pilings
- crossing of buried  
pipelines or other  
underground  
infrastructures by  
heavy loads off the  
travelled portion of a  
public roadway.

The Contractor shall be responsible to contact each pipeline company for a stakeout of their respective utility and make arrangements to have their inspectors on-site at all times during work within these areas. The cost of any inspection will be borne by the Contractor.

All construction operations shall be done in a manner that meets the requirements as set out in the permit, the National Energy Board regulations and any additional requirements as determined by the pipeline inspectors.

Work in the vicinity of the pipelines shall not begin until the Contractor has received the necessary permits and approvals. The Contractor shall furnish the Contract Administrator a copy of any permits.

Note: Permits must be on-site by any Contractor or sub-contractor working within 30 m of the pipeline zone.

Company Name	Contact Phone Number
<b>Trans-Northern Stakeout</b>	1-800-361-0608 – Emergency Line 1-905-678-2261 ext 309 – Non-emergency
<b>Enbridge Gas Stakeout</b>	1-866-763-5427
<b>Enbridge Liquid Crude Oil Stakeout</b>	1-519-337-8490 – Emergency Line 1-877-420-8800 – Emergency Line
<b>Sun-Canadian Stakeout</b>	1-905-690-5617 – Direct Line 1-800-263-6641– Alternate Line
<b>Sarnia Products Stakeout</b>	1-905-689-6652 – Call Collect

- 9 Any notification to the Ministry of the Environment and Climate Change (MOECC), that is required elsewhere in the Contract, shall be provided to 5775 Yonge Street, North York, ON M2N 4J1 and Phone: 416-326-6700.
- 10 No permanent restoration work shall be carried out from November 1st to May 1st of each calendar year.
- 11 In North York District, all construction work must be suspended on the Jewish Holidays of Rosh Hashanah and Yom Kippur.

Work is to be suspended from sundown September 20th until 7 a.m. September 23rd as well as from sundown September 29th until 7 a.m. October 1st.

12 The Applicant shall mark all concrete work with a stamp identifying the applicants name and the year of construction according to standard drawing T-310.010-7. Stamps shall be placed at each end of the work and at each tenth bay for sidewalks and on curb according to standard drawing T-310.010-6. The stamp shall be legible and located on the centre of the parallel to a transverse joint.

13 The standards for the following shall be according to:

**Zebra Striped Pedestrian Crossings**

- zebra crosswalk markings are longitudinal lines installed across the pedestrian crosswalk, parallel to the driver's direction of travel
- the lines are 60 cm wide and are spaced 60 cm apart
- shall be installed according to standard drawing T-310.030-5.

**Tactile Walking Surface Indicators**

- Tactile walking surface indicators shall be installed on corners with curb ramps or depressed curbs so that the "raised tactile profiles" have a high tonal contrast to the adjacent surface.
- Shall be according to standard drawing T-310.030-10 and T-310.030-11 and made of cast iron according to CSA B651 and meet the material requirements according to TS 3.70 – *Construction Specification for Concrete Sidewalk and Concrete Raised Medium.*

14 Any temporary ramping and permanent repair shall comply with AODA requirements.

15 The Applicant shall conduct field material testing as a quality control measure and retain the reports for review by the City upon request. Material testing frequency shall be as follows

- concrete – minimum once per day and every fifty (50) cubic metres according to TS 1350 –Amendment to OPSS.MUNI 1350 (Nov 2014) – Material Specification for Concrete Materials and Production
  - asphalt cement extracation and aggregate gradation test – minimum one sample per day and every one-hundred (100) tonnes, or as directed by City inspector;
  - full Superpave Mix Compliance test every two-hundred and fifty (250) metric tonnes
  - compaction of asphalt – minimum one per utility cut, or every 10 m for a longitudinal continuous trench, or one per lane in continuous transverse trench according to TS 310 – *Construction Specification for Hot Mixed, Hot Laid Asphaltic Concrete Paving*;
  - granular – minimum one per day or as directed by City inspector according to TS 1010 – Amendment to OPSS.MUNI 1010 (Apr 2013) – Material Specification for Aggregates – Base, Subbase, Select Subgrade and Backfill Material
  - compaction of granular – minimum one per cut, or every 10 m for a longitudinal continuous trench, or once per lane in continuous transverse trench according to TS 501 – Amendment to OPSS.MUNI 501 (Apr 2013) – Consruction Specification for Compaction
  - joint compound (sealant) – as required or once per week.
- 16 The permanent repairs will undergo initial acceptance after approval by the City. The Applicant must contact the City to schedule the initial acceptance review.
- 17 After the initial acceptance period the warranty period will begin.
- 18 During the 24 months warranty period, the Applicant shall monitor and inspect deficiencies at least once per year. Respond to 311 calls and public concerns.
- 19 The permanent restoration of all of the cuts in the area of work shall be limited to projects scheduled within the construction

season between May 1st and November 1st. All permanent restoration work shall be completed within this time frame to ensure the quality of the work and eliminate the impact of adverse weather conditions.

If work is required between November 2nd and April 30th, temporary restoration shall be carried out according to TS 4.60 – *Construction Specification for Utility Cut and Restoration*. Permanent restorations shall be carried out after May 1st.

- 20 When existing curb is removed and replaced with curb, an over-break of 300 mm from the face of the existing curb shall be made to facilitate proper compaction.
- 21 When existing curb and gutter is removed and replaced with curb and gutter, an over-break of 300 mm from the edge of the existing curb and gutter shall be made to facilitate proper compaction.
- 22 When existing curb is removed and replaced with curb and gutter, an over-break of 600 mm from the face of the existing curb shall be made to facilitate proper compaction.
- 23 The face of curb shall be free of honeycombs or shall be replaced by the Applicant at their own cost.
- 24 An additional 50 mm overlap of the final asphalt repair shall be done to complement all road base repairs when replacing the curb in conjunction with the sidewalk.
- 25 The concrete shall be placed on the same day the repair is commenced. Where warranted the Applicant shall use high-early-strength concrete in order that the repaired area can be opened to traffic as early as possible.
- 26 The Applicant shall be responsible to protect buildings, fences, newspaper boxes, signs, vehicles and so on adjacent to the restoration work from any splashed concrete and shall immediately clean such surfaces of any splashed concrete.

- 27 All water and gas valve box tops or shut offs of any kind shall be wrapped in 18 µm plastic prior to placing concrete. The plastic wrapping shall be removed 24 hours after finishing the concrete surface.
- 28 Restoration work shall include removal of existing sod and earth, placement and grading of 100 mm topsoil prior to placement of #1 Kentucky Blue Grass Nursery sod or better.
- 29 All sod placed shall be full width of the roll of sod, no pieces, and shall be laid straight and at proper grade.
- 30 At all locations where sod is removed adjacent to the curb, one standard roll of sod shall be replaced as part of the repair.
- 31 The Applicant shall remove all and dispose off the site any excess or excavated material resulting from their operation on a daily basis.
- 32 When removing or adjusting maintenance holes, catch basins or valve chambers, the Applicant shall follow TS 4.50 – *Construction Specification for Utility Adjustments*. All necessary approvals for third-party utility adjustments must be obtained prior to the commencement of work.
- 33 Upon completing the compaction of asphalt, a strip of hot rubberized asphalt shall be immediately poured around the patch to form an effective seal the same day the top asphalt is placed.
- 34 In order to achieve a good transition plan for sidewalk repair, the three-bay rule shall apply when necessary.
- 35 The Applicant shall ensure that any restoration to traffic plant systems shall be conducted by pre-qualified electrical sub-contractors.