

Rideau Canal Concrete Wall Repairs (Clegg Street - Ottawa, ON) (EQ754-200150/A)

ATT016: General requirement for a third party to work around Hydro One's HV lines Solicitation Amendment No. 007

1 – High Voltage Line – Summary of Stantec's comments based on the review of the specification and drawings regarding safe work around HV lines.

1.1 General Requirements:

Excavation by Third Parties in Proximity to Hydro One 115,000 and 230,000 Volt Underground Cables

New underground installations must have a minimum vertical and horizontal clearance of 1 metre from Hydro One's underground cables.

Third parties excavating in proximity (within **two metres**) to high voltage (115kV- 230kV) underground cables of Hydro One Networks Inc. ("Hydro One") must obey the following requirements:

1. Follow all applicable safety regulations, E&USA "*Excavating with Hydrovacs in the Vicinity of Underground Electrical Plant*", and any other requirements determined by Hydro One in its discretion;
2. Not perform any excavation within **one metre** of Hydro One's underground cables except in the presence of a Hydro One representative. The third party must contact Hydro One at 1-888-977-8665 #1, at least 72 hours before excavation work, to schedule the attendance of the Hydro One representative;
3. Prior to the commencement of any excavation, inform Hydro One of the proposed scope of work around the cables and cable trench;
4. Not commence any excavation before requesting and obtaining from the Hydro One representative the *approximate* cable depth at the work site, unless the third party determines the *exact* cable depth by either hand-digging or using hydrovac equipment, whichever of those two methods has been approved by the Hydro One representative after considering the type of buried cables;
5. Ensure that step and touch potentials are controlled by the use of an equipotential work zone prior to operating hydrovac equipment within **one metre** of the cable. The third party must protect the public and all workers from these potential hazards;
6. Not operate mechanical equipment (such as boring, auguring or ramming) within **one metre** of the cable;
7. Where the Hydro One representative identifies the need to support exposed cables, deliver to Hydro One a temporary support design bearing the stamp of a Professional Engineer to be presented to Hydro One's Engineering Department;
8. Ensure that no personnel make direct contact with pipe-type cable without wearing appropriately-rated personal protective equipment (PPE), because the cable pipe may become energized during a power system fault. Accidental contact with the exposed cable shall be avoided;
9. Not replace backfill until after the Hydro One representative on site has inspected all sections of exposed cable following backfill removal and has found the said cable to be satisfactory;
10. Use only backfill that satisfies Hydro One specifications, which specifications the third party shall obtain from the Hydro One representative or from the Hydro One employee providing the locate.