

S-12 BOREHOLE INVESTIGATIONS

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31.01. SCOPE OF WORK

This specification covers the requirements for drilling boreholes, backfilling, and reinstatement of surfaces in boulevards, pavements, sidewalks and other hard surfaces as a temporary or permanent repair within the City of Windsor road allowance.

31.02. REFERENCES

This specification refers to the following standards, specifications, or publications:

- S-29 Utility Cuts Restoration
- Ontario Regulation 903: Wells

31.03. DEFINITIONS

For the purpose of this specification, the following definitions shall apply:

Boulevard: means that part of a public street that is not used or intended to be used for vehicle travel by the general public, and that is situated between the travelled portion of the road and the adjoining property line.

Hard Surface: means a pavement, curb, sidewalk, paved driveway or any other structure constructed at or near the ground surface elevation.

Roadway: means the portion of the street designed, improved, and ordinarily used by vehicle traffic.

Sidewalk: means that part of the public street located within the boulevard that is improved for the exclusive use of pedestrians.

31.04. MATERIALS

All materials necessary for the execution and completion of the work shall be supplied by the Contractor.

31.05. EQUIPMENT

All equipment necessary for the execution and completion of the work shall be supplied by the Contractor.

31.06. CONSTRUCTION

31.06.01 General

Any work completed in the City's right-of-way will require a permit. Permit applications can be found on the City of Windsor's website. Borehole investigations require a hoarding or a day road closure permit application. A drawing outlining the proposed boreholes locations should be included with the application. Traffic Control Plan shall be submitted to Traffic Operations for review and approval. Soil cuttings stored temporarily on-site will require insurance as per Risk Management requirements and noted on the Public Works hoarding permit.

31.06.02 Restoration

Backfilling of boreholes shall comply with Ontario Regulation 903.

Hard surfaces damaged by borehole investigations shall be restored to its original condition and in its original orientation, except for borehole investigations completed for road rehabilitation projects. Borehole investigations completed for road rehabilitation projects that require hard surface restoration may be temporarily restored using cold mix asphalt. Otherwise, permanent pavement repairs shall be cut and a permanent repair performed as outlined in City of Windsor specification S-29 Utility Cut Restoration.

Permanent restoration of boulevard landscaped areas shall be to original site conditions or better. Imported topsoil and seed/sod to meet City requirements.

The City Engineer will identify the level of restoration required during the proposal stage.

31.06.03 Management and Disposal of Excess Material

Soil cuttings shall be drummed and remain on-site until analytical results are received. Drums shall be clearly labelled and secured while stored on-site. The Contractor will be required to obtain a hoarding permit for soil drums to remain on the project site temporarily. A proposed location map shall be included in the permit application noting the drum locations.

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Once analytical results are confirmed, the Contractor is required to remove and dispose of all materials from borehole investigations off site. Any fees incurred by the City related to disposal of drums shall be recouped through the permit holder.

31.07. QUALITY ASSURANCE

The Contractor will be responsible for all repair work associated with failed or defective work.

31.08. BASIS OF PAYMENT

Payment at the contract price shall be full compensation for all labour, material, and equipment required to perform the work including traffic control, soil drumming, backfill material and surface repair material.