

## CITY OF HAMILTON

### PUBLIC WORKS DEPARTMENT

(TRANSPORTATION - TRAFFIC OPERATIONS - LOCATION – 703 Hwy 8, Stoney Creek, Ontario)

### TRAFFIC DESIGN TECHNOLOGIST - CUPE 5167

#### JOB SUMMARY:

Reporting to Project Manager of Transportation Engineering, the Traffic Design Technologist will focus on the design of traffic signals, intersection pedestrian signals, mid-block pedestrian signals, pavement markings, traffic calming measures, bicycle lanes, roadway design, on-street parking and pedestrian crossovers. The incumbent will also review and comment on internal and external design submissions related to the City of Hamilton's transportation and traffic control infrastructure.

#### GENERAL DUTIES

Design and recommend the placement of traffic related infrastructure and utilities such as the location and size of underground traffic signal wiring ducts, handholes and junction boxes for wiring access, grounding and bonding system, signal controller box and concrete pad, pedestrian signal heads, pedestrian push buttons, wheelchair ramps, pavement markings, crosswalks, bicycle lanes.

Prepare complex detailed drawings, using both manual and computer-aided drafting methods.

Research and compile information from various sources such as traffic by-laws, traffic counts and technical manuals.

Design and plot alternatives and artwork for displays and other purposes.

Perform related field survey measurements and calculations and research survey information prior to, during and after construction.

Develop, plan and profile drawings from base plans using MicroStation/ AutoCAD/ Civil 3D engineering software.

Collaborate on location of traffic utilities with appropriate staff and contractors.

Act as traffic controller during field surveys and assist in field survey measuring.

Locate and mark point of intersection on roadway and parking regulation areas on site.

Prepare work orders and issue as directed by engineering staff.

Provide regulation details from field measurements for by-law entries.

Produce, revise, update and replace Record and Wall Maps on street surveys, traffic control and associated data.

Assist in estimating and quoting hardware needs for installation of traffic signals, parking meters and traffic signs.

Maintain computerized filing system, including assigning file and drawing numbers.

Receive and answer enquiries from staff, engineering, other departments, contractors, consultants and the public.

Record and maintain and back-up computer files. Access traffic, survey planning and engineering records and

drawings.

Provide information and utilize large format plotters, printers and scanners to produce large scale documents.

Update drafting procedures training and standard practices manuals.

Perform other duties as assigned which are directly related to the responsibilities of the position.

**QUALIFICATIONS**

1. Demonstrated experience in Transportation Engineering with extensive knowledge in Transportation Design, normally acquired by attaining a Diploma in Transportation or Civil Engineering or an equivalent combination of education and relevant work experience.
2. Demonstrated ability and experience with computer-aided design software (AutoCAD and/or MicroStation). Preference will be given to those with extensive experience working with MicroStation to create traffic/transportation related designs.
3. Proven knowledge of traffic and road design principals, procedures and regulations.
4. Demonstrated experience in corresponding with Consultants and other outside professionals in the private sector.
5. Demonstrate knowledge and ability in providing direction to City staff and contractors performing construction related tasks for the City.
6. Experience in a computerized environment with proficiency in Microsoft Office, Word, PowerPoint, Excel and Outlook.
7. Practical knowledge of the Occupational Health and Safety Act, TAC, AODA, Ontario Highway Traffic Act, Ontario Traffic Manual and other relevant technical manuals.
8. Experience with Pavement Marking Design, Cycling Traffic Design, Intersection Signal Design, AODA compliant design.
9. Familiarity with local above and underground Utilities
10. Effective written and verbal communication skills.
11. Able to work independently and contribute in a team environment.
12. Ability to solve problems using sound professional judgment, creativity, and innovation.
13. Strong organizational skills, time management and ability to prioritize.
14. Must possess a valid Class "G" Drivers License and provision of own car.