

AGENDA # 7.2
Public Works Committee
February 4, 2013



Hamilton
Public Works

Public Works
Corporate Assets & Strategic Planning
Energy, Fleet & Traffic

Traffic Operations and Engineering
Services Sectional Overview
Monday, February 4, 2013

Providing services that bring our City to life !

Traffic Operations & Engineering Services

Presentation Agenda

1. Link to Strategic Plan
2. Who are we?
3. Organization Chart
4. Traffic Engineering
5. Traffic Operations
6. Traffic Services
7. Capital & Special Projects
8. 2013 Key Deliverables
9. East End Re-timing Project

- Community
- People
- Processes
- Finance



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Link to Strategic Plan

Strategic Priority #1 – A Prosperous & Healthy Community

1.4 Improve the City's transportation system to support multi-modal mobility and encourage inter-regional connections.

- *Plan, develop, design, operate and maintain a traffic network to provide sustainable infrastructure management, to create and maintain a safe and efficient roadway system to enhance the livability of the neighbourhood and promote pedestrian enhancements along with enhancing the movement of people and goods in Hamilton.*

1.5 Support the development and implementation of neighbourhood and City wide strategies that will improve the health and well-being of residents.

- *Ensure the safety of all road users in Hamilton, including pedestrians, bicyclists*

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Link to Strategic Plan

Strategic Priority #2 – Valued & Sustainable Services

WE deliver high quality services that meet citizen needs and expectations, in a cost effective and responsible manner.

- *Provide professional, cost-effective Traffic services that serve the needs of the citizens of Hamilton.*

Strategic Priority #3 – Leadership & Governance

WE work together to ensure we are a government that is respectful towards each other and that the community has confidence and trust in.

- *Provide Council with professional Traffic Operations & Engineering advice*
- *Ensure legislative compliance with Provincial and Federal regulations*

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Traffic Operations & Engineering Services

Who are we?

We are responsible for the design, installation, inspection, maintenance, review and capital replacement of traffic signs, traffic signals, roadway pavement markings and roadway safety initiatives. The work group consists of engineering, design, operations, and business staff who co-ordinate their efforts to meet legislated requirements, best practices and approved levels of service. The goal is to provide sustainable infrastructure management, to create and maintain a safe and efficient roadway system to enhance people and goods movement in Hamilton.

- Community
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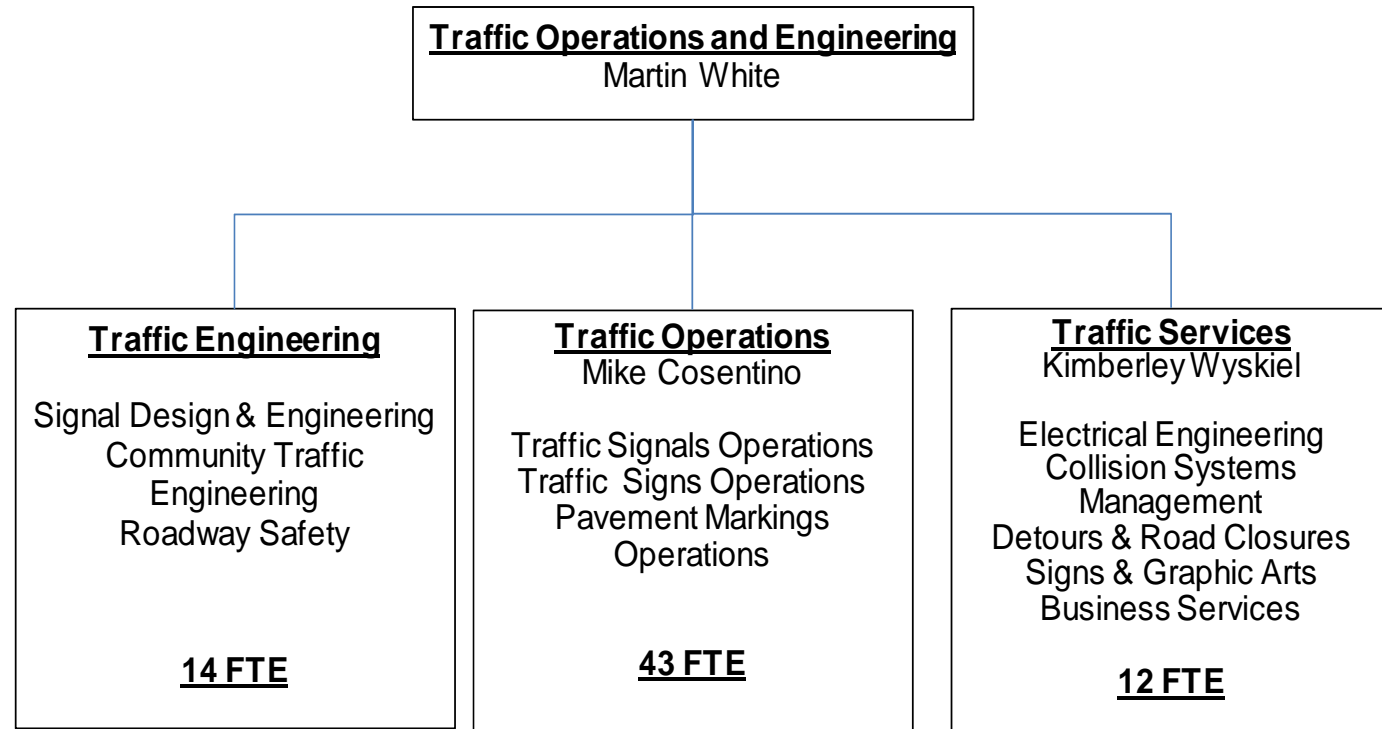


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Traffic Operations & Engineering Services

Organization Chart



- Community
- People
- Processes
- Finance



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Traffic Operations & Engineering Services

Traffic Engineering

- Speed Complaints/Concerns
- Speed limit review
- Stop Control Requests
- Traffic calming requests
- Truck traffic complaints
- Truck Route Sub-committee
- Tourism Orientated Directional Signing
- Approximately 1,400 requests annually for service from the public for Traffic Engineering Services
- Legal claims
- Collision analysis
- School Flasher Program
- Implementation and maintenance of accessible pedestrian signals
- Traffic signals retiming projects
- Red light camera program
- Traffic Signals and pavement marking designs

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Traffic Operations & Engineering Services

Traffic Operations

Installation, inspection, repair, maintenance of traffic signals, traffic signs, parking signs and pavement markings

Assets (approximate)

- 550 Traffic Signals
- 100 km of signal communications cable
- 200,000 regulatory, warning, information, and parking signs
- 6,400 lane kilometers of road
- 1,200 painted crosswalks
- 2,000 bike stencils
- 2,700 turn arrows
- 3,000 requests for Traffic Operations services from the public recorded in Hansen Customer Service

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Traffic Services

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- Traffic Collision System Administration
- Traffic Electrical Project Management
- Traffic Electrical Engineering
- Inventory Control/Parts Management
- Hansen, PeopleSoft, Data Management
- Customer Service, Dispatch/Trouble Call
- Specification Preparation and Procurement
- Staff Training & Development
- Create Operational & Health & Safety Policies and Procedures
- Construction Investigation/Detour Planning
- Sign Manufacturing
- Graphic Arts Design and Production
- Risk Management Claim Investigation
- Legislative & Code Compliance

Traffic Operations & Engineering Services

Capital & Special Projects

- Community
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- Traffic Signal Controller Replacement Program
- Traffic Signal Communications System Modernization
- Traffic Signal LED Lighting Upgrade Program
- Sherman Access Lane Control System Upgrade
- Traffic Signal Electrical Infrastructure Improvements Program
- New Full Traffic Design and Installation Signal Program
- Truck Route Sub Committee, Signage & Monitoring
- Traffic Calming Program
- School Zone Flasher Program
- Railway Crossing Safety Review
- Caroline - Main to King Two Way Conversion
- Dundas St. - Waterdown Corridor Modeling Options
- Signal - Garner & Panabaker
- Signal - Hwy 8 & Glover
- Signal - John & Augusta
- Governor's - Davidson Roundabout
- Pedestrian Signal - Parkside & Victoria
- Strategic Road Safety Program
- East End Traffic Signal Re-timing Project

Traffic Operations & Engineering Services

2013 Key Deliverables

- Community
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- A Traffic Task Team has been formed to review and recommend improvements in communication, service delivery, reliability, safety, efficiency and cost effectiveness.
- Design Traffic Management Centre for future implementation.
- Audit and Improvement of materials management at Traffic Operations Centre to improve financial reporting.
- Re-integrate the delivery of Traffic Services
 - Engineering
 - Community Traffic
 - Traffic Operations
 - Traffic Services
- Design, install, operate and maintain:
 - Traffic signals and signs
 - Pavement Markings
 - Red Light Cameras
 - Collision Database

Traffic Operations & Engineering Services

East End Signal Re-timing Project

Purpose :

To re-time the traffic signals in the East End to improve pedestrian crossing times, improve vehicle service & reduce green house gas emissions.

Location :

This network includes over 100 signalized intersections below the escarpment from Kenilworth Avenue to the west, and Fifty Road to the east.

Status :

Staff are currently implementing the new signal timing with a completion date of April 2013.

Follow-up :

Travel time and delay will be measured and, if required, adjustments will be made to fine tune performance. A final update will be delivered after this fine tuning in the fall of 2013.

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For all enquiries:

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