

7.1  
Public Works Committee  
September 3, 2013



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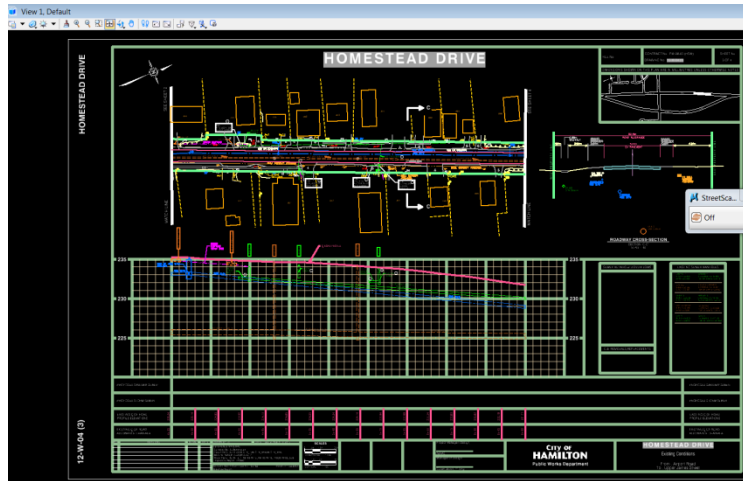
**Public Works  
Geomatics / Corridor Management**

**Sectional Overview**

*Providing services that bring our City to life !*

# Brief overview of the section

## Geomatics

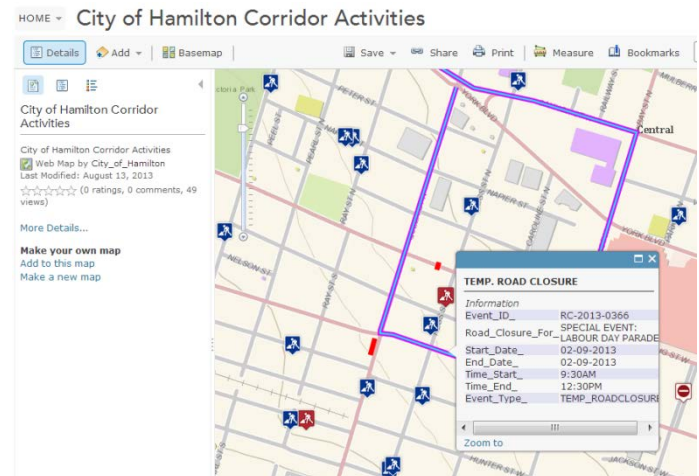


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## Corridor Management

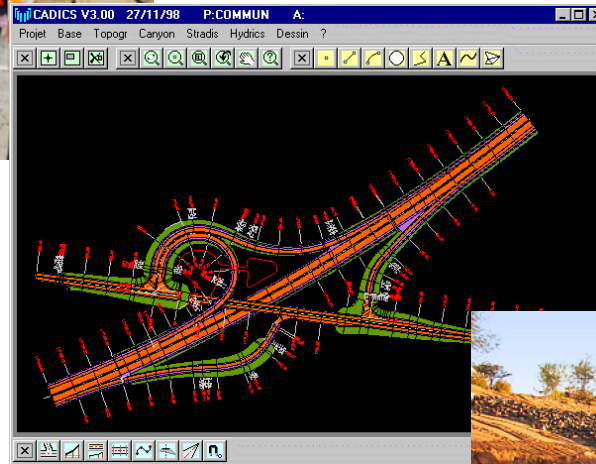


# Geomatics

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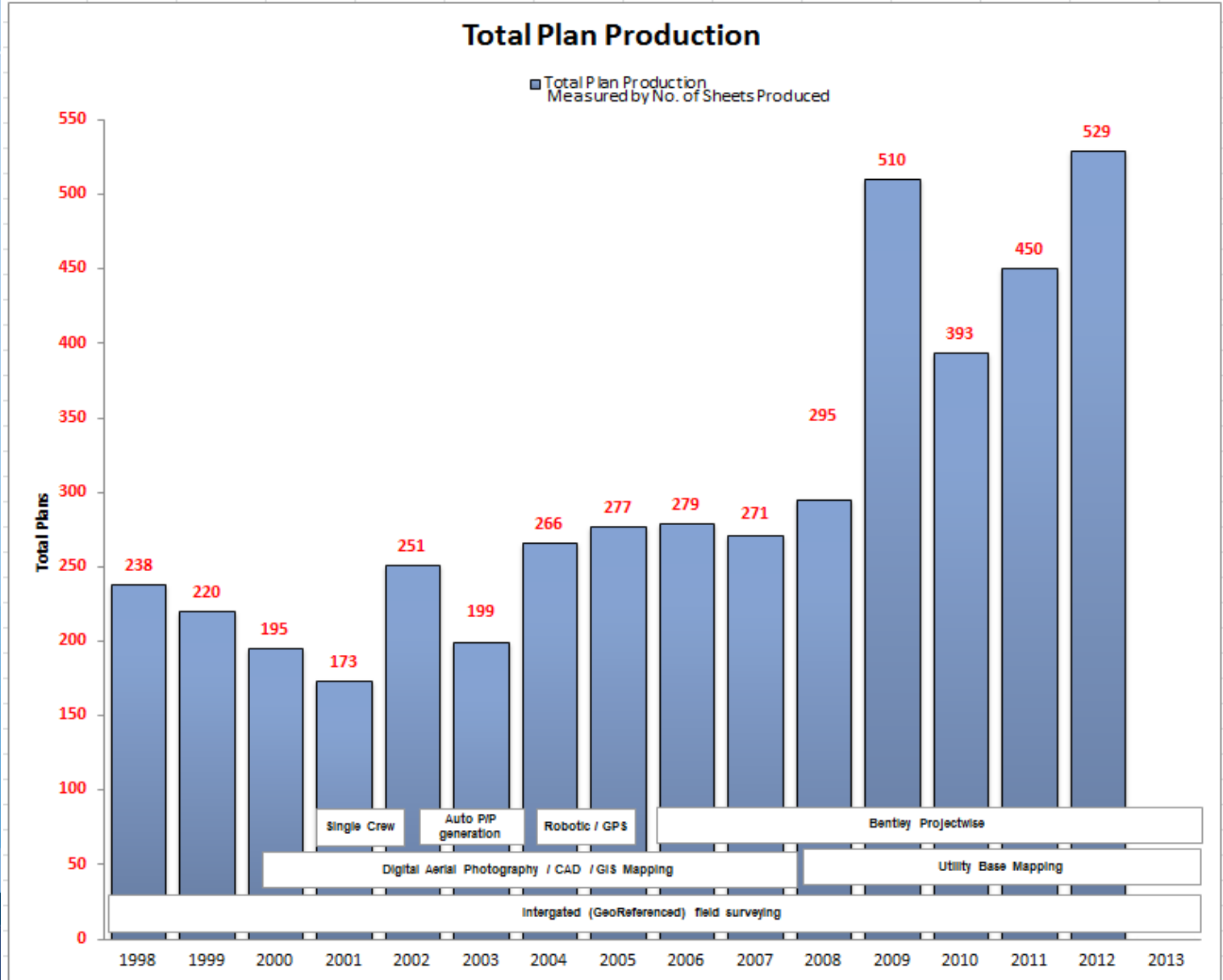


# Service Provision of Field and CAD systems which are primarily referred to as Geomatics

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# Mapping Acquisition and Publishing

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# Alleyway Project

ArcGIS - Hamilton Alleys

NEW MAP SIGN IN

Details Add Edit Basemap

Save Share Print Measure Bookmarks Find address or place

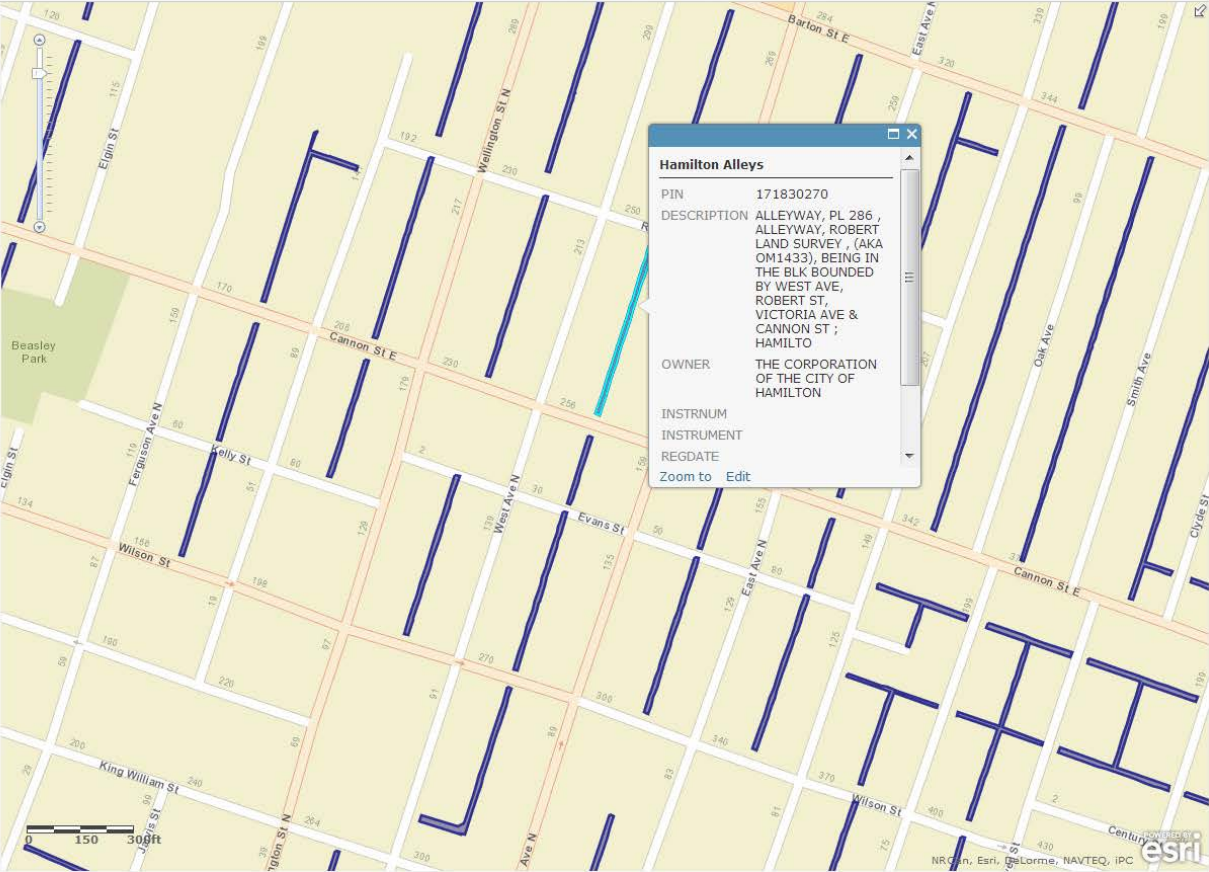
About Content Legend

Hamilton Alleys

Web Map by GISclairice  
Last Modified: February 5, 2013  
0 ratings, 0 comments, 36 views

More Details...

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# Corridor Management

## Excavation Permits



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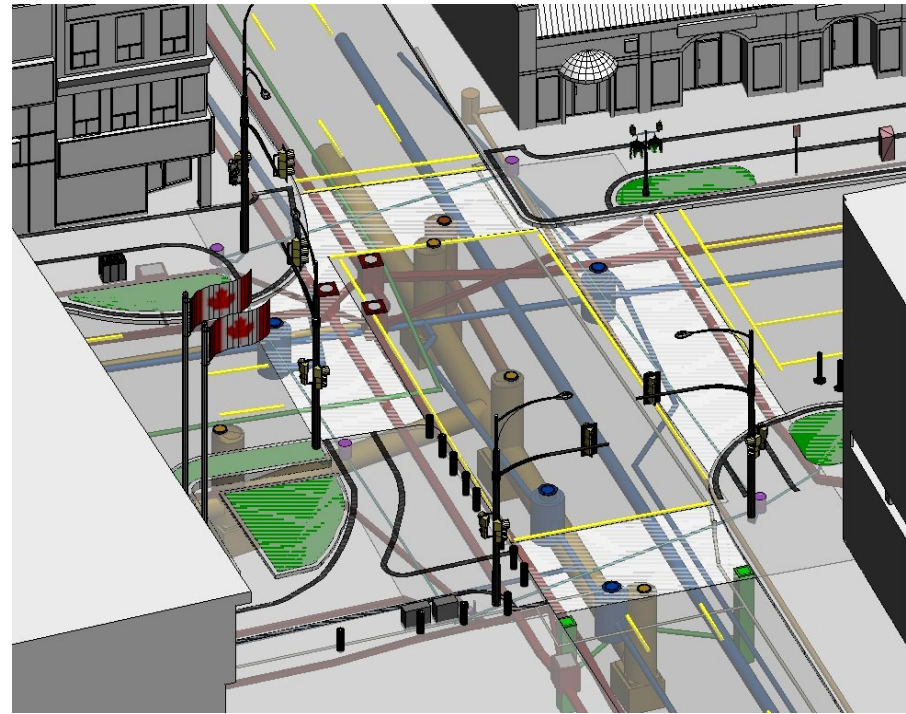
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The Corridor Management section has a focus on Road based permits, services and utility coordination opportunities. I will review the following programs:

- Streetlighting
- Permitting volumes
- Financial impacts
- Right of Way (ROW) permit pressures
- Initiatives underway
- Longer term plans





# Street Lighting Update

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Light-Emitting Diode (LED) has been implemented in new subdivisions and is now an approved product for all new developments.

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# Current Corridor Management Challenges

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# Installation Concerns

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# Incorrect Location

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# 2012 Activity Summary

- 650 Utility installations representing 40 km of new infrastructure
- 2500 Road Cut permits representing \$4 Million in restoration costs
- 800 Road Occupancy, Overweight or Access permits
- 700 Development Application, Subdivision, Formal Consultations, Surplus Lands and Encroachment reviews

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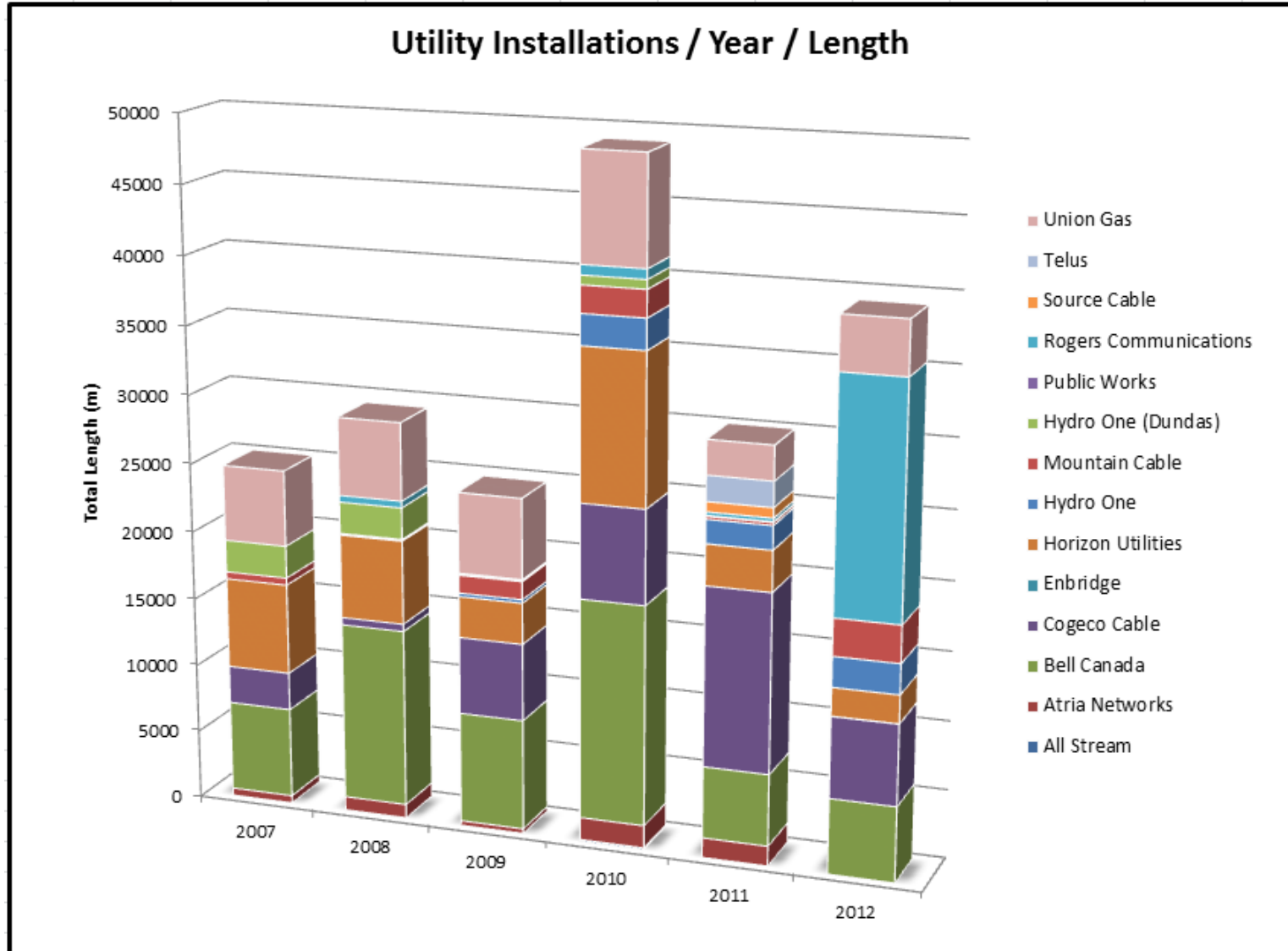
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# Year over Year incoming Utility Permits

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# Permitting System Advantage

Search | MC Application | Hansen WO | Corridor | Move Geometry

**Update Municipal Consent**  
**City Of Hamilton**  
 Transportation Operations and Environment Division

M/C Number: \* MC2013-108

Details | Complaints | Conflicts

Contractor: BELL CANADA Date Received: 06-02-2013  
 Address: 100 Borough Dr-Floor 5 BI Date Approved: 12-02-2013  
 Utility Ref No.: X09923 Date Closed:   
 Plan No.: Roadcuts  
 District: 3  
 Ward: 5  
 Tree Conflict:  Yes  No  
 Traffic Conflict:  Yes  No  
 MC Application # APP-MC-2013-999095  
 Description: X09923, conduit, compact power node, ONU unit  
 Location: Barton @ Kenora  
 Notes: Work to start before Capital

Generate Geometry | Delete MC | Get Files

Length : 0 M(s) Line Measure

Conflicts

Conflicts within Buffer distance of 50Meters  
 MC2014-999

ID	Type	Name	Start Date	End Date	Status	Conflict Reviewed	Comments
MC2013-108	MunicipalConsent	BELL CANADA	12-02-2013			<input checked="" type="checkbox"/>	No Conflict
9849	CapitalProject	BARTON - NASH TO CENTENNIAL	null	null	Design,2013	<input checked="" type="checkbox"/>	Will require on-site coordination

UpdConflict



# Corridor Management

**Update Corridor**

Road Occupancy Permit

Details Complaints Conflicts

Event ID: RO-2013-0302 Applicant Name: TD Services, 10621

Created By: student

Purpose of use

Area Required: Length (m) 6 Width (m) 3

Use Of:  Boulevard  Sidewalk  Roadway

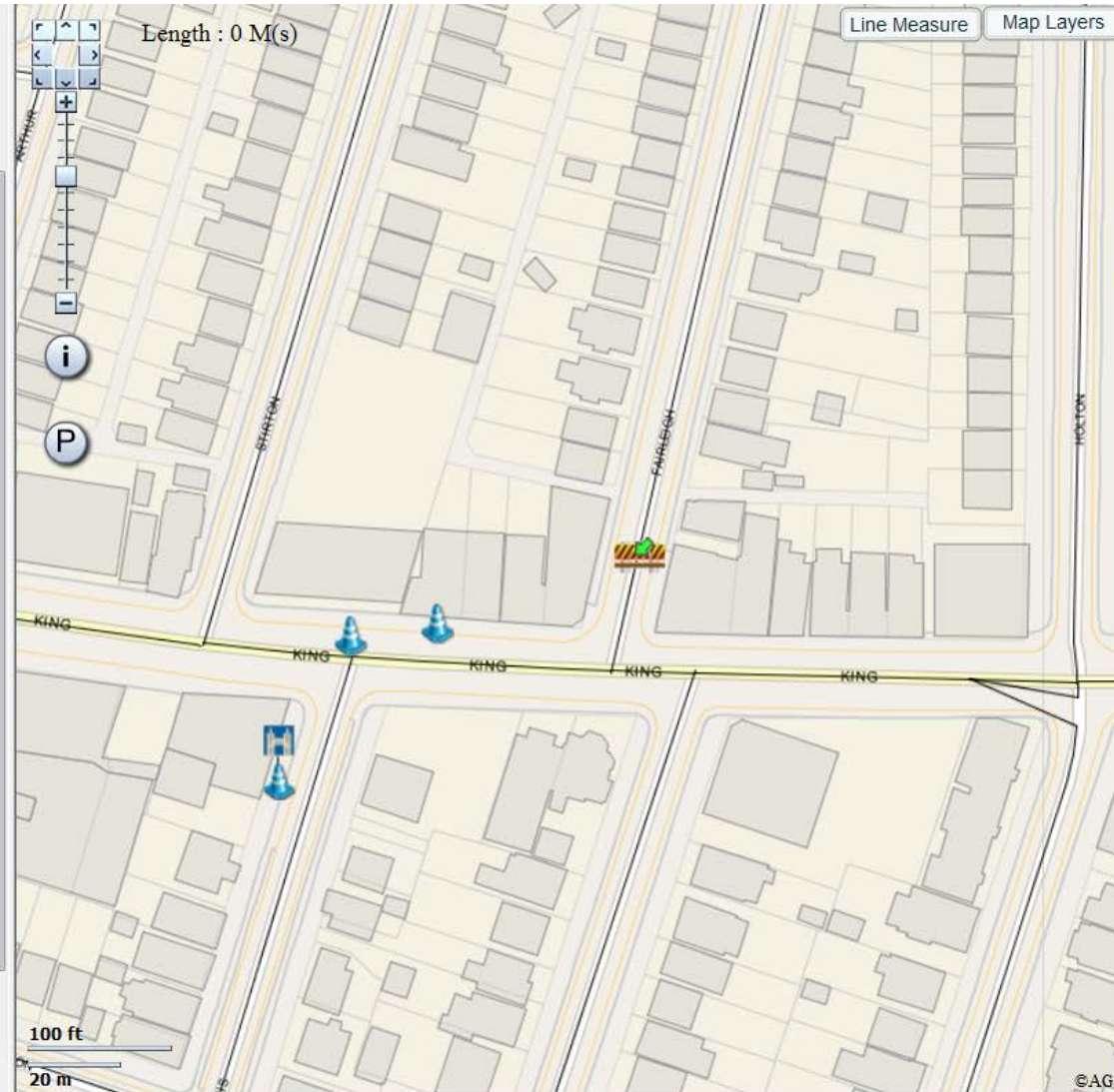
For:  Scaffolding  Hoarding  Barricade  Dumpster

From: 25-03-2013 To: 08-04-2013

Location: Fairleigh Ave N, north of King St E. 811 King St E

Reason: To place a disposal bin on Fairleigh Ave N, just north of King St E. The applicant is to ensure that the disposal bin does not encroach in front of adjacent properties and the sidewalk remain clear of debris. The bin must be as close as possible to the curb. All fire hydrants must remain unobstructed. All signing for the lane closure must be in compliance with The Ministry of Transportation Book 7 for Temporary Conditions. Bin must be at least 6 meters from stop sign at Fairleigh and King.

Print Delete Close Ok Cancel



# URISA GIS Award 2013

- Best in Public Works Gold (Tied with Peterborough)
- First system of its kind



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# Where we are going next?

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**Permit Tracking Editor**

City of Hamilton | Permit Number: EP07394A

Contract Year: 2013 | Start Date: 26-4-2013 | End Date: 26-4-2013

Inspector: DB | Work Sheet: [blank]

Materials:

Material: 1a Full Depth Repair in Arterial Pavement - 310mm

Cut #: 1 | Units: sq m | Crst: 119.83

Length: 1.7 | Width: 1.2

Cut#	Material	Quantit	Quantity Tot	Total Ar
1	1a Full Depth Repair in Arter	2.04	1.7 * 1.2	244.05

Map Validated On: 2013-04-26

Map Info: EP07394A, Roadcut ID: EP07394A, Contractor Name: BELL CANADA



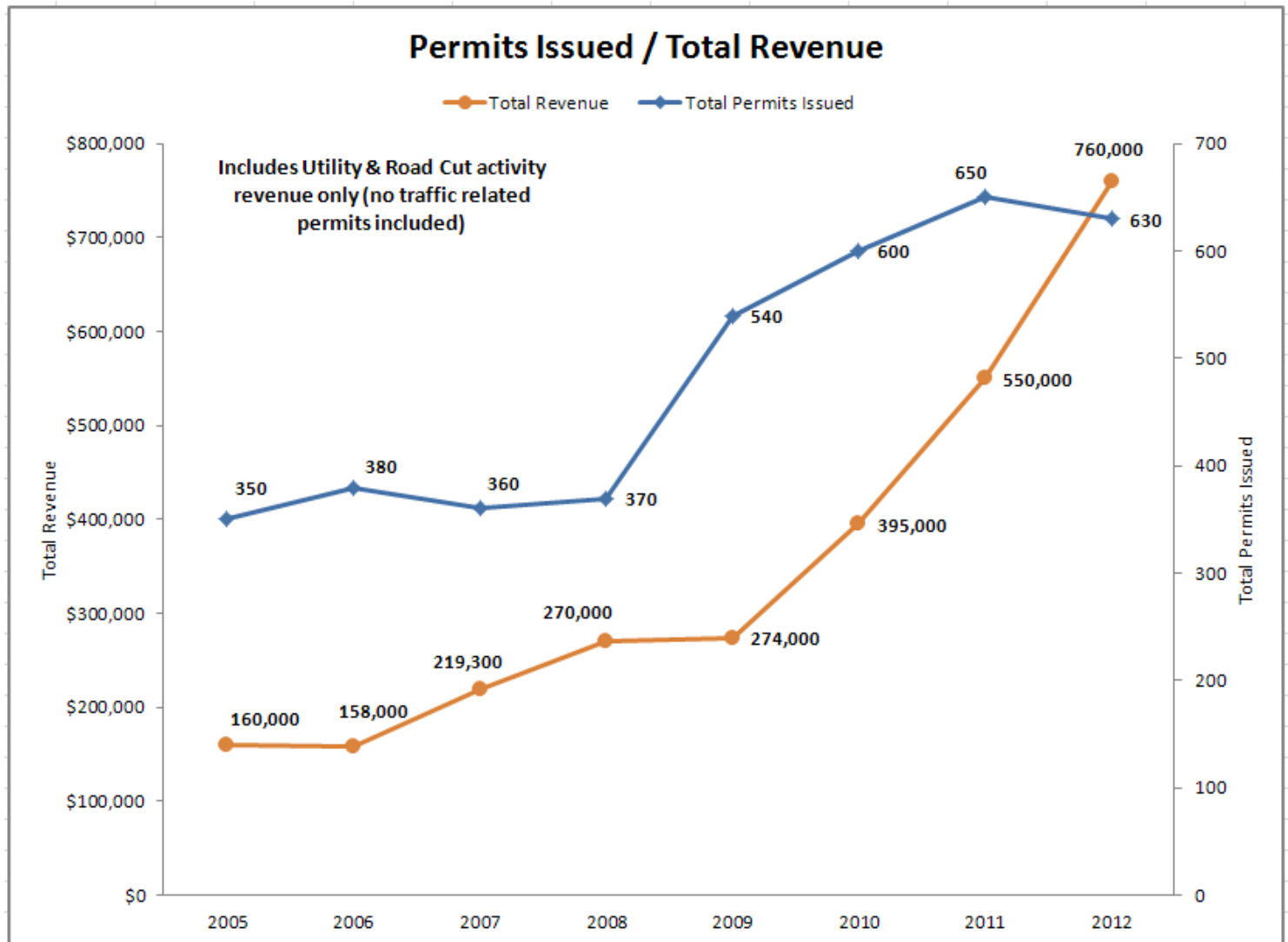
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# Financial Impacts

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# Longer Term Issues

- Concept of “cost neutrality” must be adopted.
- Long term impacts of upcoming installations need to be understood.
- Capital and Operating programs cannot be affected and if so, all costs are to be mitigated
- Costs to work on, repair and install City mandated services above “greenfield” conditions should be the costing standard

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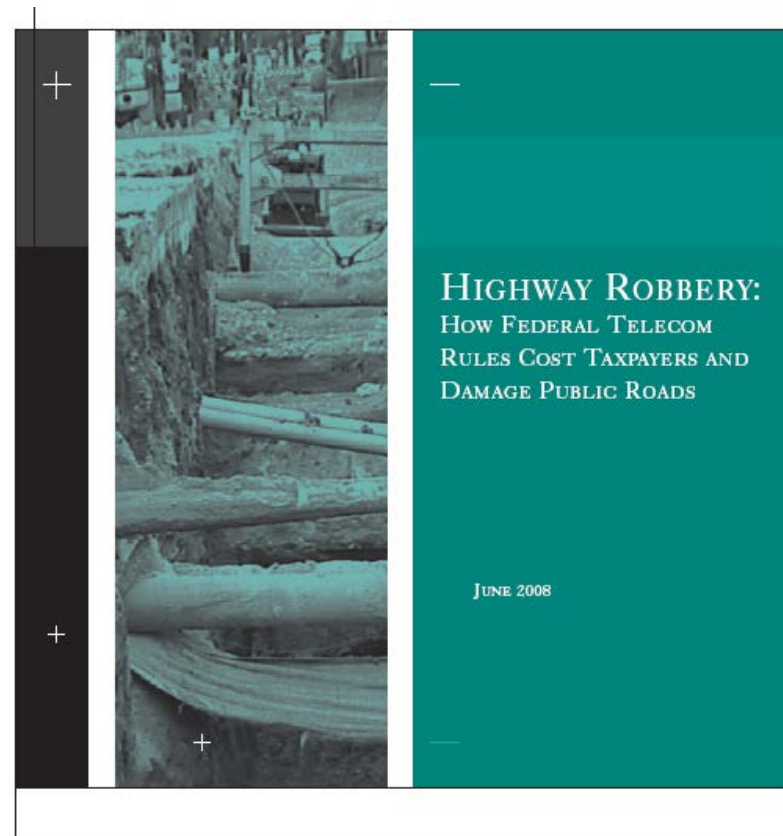
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# Federation of Canadian Municipalities (FCM) 2008 Study into Telco Issues Only

2008 Study found:

- Municipalities subsidize the Telco industry @ \$107 Million
- Cities are losing control over ROW's
- Decisions are made in Ottawa that affects cost
- Costs arise from:
  - Delays
  - Work Around costs
  - Relocation
  - Pavement Degradation
  - Inspection
  - Coordination



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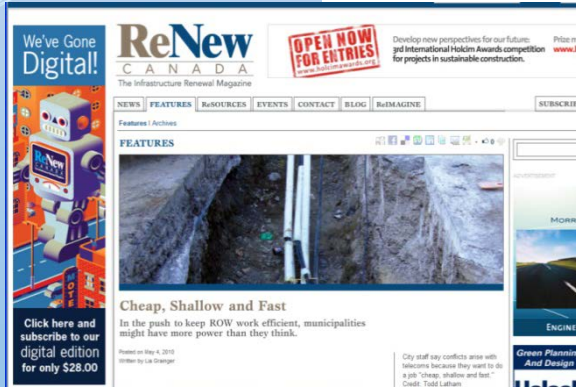
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# Utility Coordination – Work Around Charges



*The frequent shallow placement of telecom lines in the ROW can also cause conflict. Shaun McKaigue, vice-president of watermain rehab company Fer-Pal Infrastructure, says it's not unusual for a telecom company to install a duct directly above existing watermains, which are usually buried deeper to escape extreme temperatures.*

*“There’s a hidden cost of working around that telecom wire and the City never gets proper compensation,” says McKaigue. “The taxpayer is subsidizing and paying for a corridor for the telecom, which in turn makes a profit.”*

*“That’s the million-dollar question,” says Piaskoski of the debate surrounding this cost. He says the CRTC admits that recouping “work-around costs” sounds fair, but the municipality must itemize the cost, quantify it, allocate it, and say how much is incurred by each telecom. **“It becomes very difficult for the municipality to claim that cost,”** says Piaskoski.*

From ReNew “Cheap, Shallow and Fast”

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# Directions for the future

- Continue to develop Access Agreements with all Utilities
- Remain engaged with the AMO, FCM, RPWCO committees to ensure the Cities voice is heard
- Develop inspection protocols, reporting and as built protocols that will assure the City all installations are acceptable and have met all permit requirements.

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# Questions?

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