FINANCIAL PLAN – INFRASTRUCTURE
2017-2037 PROJECTIONS

Presentation to Council
Capital Budget Seminar
October 20th, 2016

Revised for presentation at General Committee of Council
February 19th, 2018
PURPOSE OF THIS PROJECTION

• Provide an estimated annual investment projection of capital over the next 20 years to:
  – Rebuild or Replace the City Infrastructures based on industry standards for life expectancies

• This analysis does not incorporate special projects

• The dollar amounts are fixed and based on actual 2016 values
CONTENTS

• Roads, Sidewalks, Traffic & Street Lights
• Water
• Sewers
• Buildings
• Vehicles
• Parks
• Hydro Westmount (electrical distribution)
• Information Technologies (IT)
• Summary
ROAD RECONSTRUCTION INVESTMENT

<table>
<thead>
<tr>
<th>Period of Intervention</th>
<th>Length (m)</th>
<th>Area (m²)</th>
<th>Value of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior to 2016 (backlog)</td>
<td>8,030</td>
<td>80,920</td>
<td>$ 30,102,200</td>
</tr>
<tr>
<td>2017 to 2036</td>
<td>8,410</td>
<td>88,240</td>
<td>$ 32,825,300</td>
</tr>
<tr>
<td>TOTAL</td>
<td>16,440</td>
<td>169,160</td>
<td>$ 62,927,500</td>
</tr>
</tbody>
</table>

• Investment over 20 years
  – Average annual investment: $3.15 Million
  – Average annual quantity: 820m or 8,460 m²
  – Includes sidewalks & street lights
## ASPHALT RESURFACING INVESTMENT

<table>
<thead>
<tr>
<th>Period of intervention</th>
<th>Length (m)</th>
<th>Area (m²)</th>
<th>Value of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior to 2016 (backlog)</td>
<td>21,460</td>
<td>187,300</td>
<td>$16,665,600</td>
</tr>
<tr>
<td>2017 to 2036</td>
<td>15,720</td>
<td>135,800</td>
<td>$12,085,900</td>
</tr>
<tr>
<td>TOTAL</td>
<td>37,180</td>
<td>323,100</td>
<td>$28,751,500</td>
</tr>
</tbody>
</table>

- Investment over 25 years
  - Average annual investment: $1.15 Million
  - Average annual quantity: 1,490 m or 12,920 m²
  - Includes partial reconstruction of sidewalks
Driving Quality - 2014 Rating
(Rating established by the PW management staff)

- Very Good: 19%
- Good: 45%
- Fair: 26%
- Poor: 9%
- Very Poor: 1%

Driving Quality 2016 Rating (Qualitas)

- Very good: 13%
- Good: 29%
- Fair: 48%
- Poor: 7%
- Very poor: 3%

Pavement Condition 2016 Rating (Qualitas)

- Very good: 15%
- Good: 24%
- Fair: 27%
- Poor: 31%
- Very poor: 3%

Very good: light green
Good: blue
Fair: yellow
Poor: red
Very poor: dark red
WATER MAIN INVESTMENT

- An investment of $57M
  - 63% of water mains (36km)
  - $10.3M is urgent & eligible for a subsidy
    - 5.3 km of mains (total)
    - Annual subsidy: $1M
- Investment over 20 years
  - Average annual investment: $2.85M
  - Average annual quantity: 1,890 m
SEWER INVESTMENT

- An investment of $18M is required
  - 59% of sewers (34km)
  - $3.3M is urgent & eligible for a subsidy
    - 9.6 km of mains (total)
    - Annual subsidy: $200K
- Investment over 30 years
  - Average annual investment: $0.6M
  - Average annual quantity: 1,200 m
REQUIRED ROAD & WATER INVESTMENTS FOR 20 YEARS

- Road Reconstruction: $57M
- Asphalt Resurfacing: $18M
- Water Main Reconstruction & Rehab: $63M
- Sewer Rehabilitation: $28M
TRAFFIC & STREET LIGHTS

• 2015 Budget: $238,000
• 2016 Budget: $250,000
• 2017 Budget: $460,000 (Ste-Catherine project only)
• 2018 Budget: $293,000

• Projected average for the next 20 years: $250,000
• Ongoing investments solely for replacement and upgrade of traffic and street lights
• Does not take into account special projects (Ste-Catherine)
BUILDINGS

- Study based on the value of buildings (as per the City’s insurance) and their depreciation rate
- Does not include special projects
- City may decide to sell/dispose of certain buildings over the next 20 years
BUILDINGS

2016 Total Estimated value of City Buildings (27): $131,600,000

Yearly Depreciation Charge: $3,159,000 (**)

- Minus yearly oper. charges: -$350,000

Total yearly capital investment: $2,809,000 (**)

VEHICLES

• 2016 Budget: $910,000
• 2017 Budget: $1,010,000
• 2018 Budget: $1,330,000

• Projected average for the next 20 years: **$950,000**

• Study based on actual fleet (no new addition), replacement value and projected year of replacement of each vehicle
PARKS

• 2014 Budget: $334,000
• 2015 Budget: $544,000
• 2016 Budget: +/-$415,000 (excluding Summit Circle project)
• 2017 Budget: +/-$650,000 (excluding Summit Circle project)
• 2018 Budget: $595,000

• Projected average for the next 20 years: $400,000
HYDRO WESTMOUNT

Yearly Investments Required (20 years)

Equipment & Overhead Wires: $908,000
Underground infrastructure: $1,581,000
TOTAL $2,489,000

- Underground infrastructure: conduits, manholes & underground cables
- Investments based on life expectancies of equipment
IT

- 2014 Budget: $340,000
- 2015 Budget: $352,000
- 2016 Budget: $554,000 (excluding Pay-by-plate)
- 2017 Budget: $529,400
- 2018 Budget: $642,150

- Projected average for the next 20 years: $400,000
# SUMMARY

## PROJECTED 20 YEAR INVESTMENTS

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>20 Year Average Investment</th>
<th>2016 Budget</th>
<th>2017 Budget</th>
<th>2018 Adopted Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roads, Sidewalks, Traffic &amp; Street Lights</td>
<td>$5,073,400</td>
<td>$4,926,200</td>
<td>$5,676,700</td>
<td>5 296 500</td>
</tr>
<tr>
<td>Water + Sewers</td>
<td>$3,450,000</td>
<td>$2,399,200</td>
<td>$3,378,700</td>
<td>2 608 600</td>
</tr>
<tr>
<td>Building</td>
<td>$2,809,400</td>
<td>$993,200</td>
<td>$1,823,700</td>
<td>2 800 500</td>
</tr>
<tr>
<td>Parks</td>
<td>$401,600</td>
<td>$1,024,500</td>
<td>$1,155,000</td>
<td>595 000</td>
</tr>
<tr>
<td>Vehicles</td>
<td>$950,000</td>
<td>$910,300</td>
<td>$1,010,000</td>
<td>1 330 000</td>
</tr>
<tr>
<td>Hydro Westmount (Electrical distribution only)</td>
<td>$2,489,400</td>
<td>$2,690,000</td>
<td>$2,335,000</td>
<td>2 515 000</td>
</tr>
<tr>
<td>Information Technologies</td>
<td>$400,000</td>
<td>$554,000</td>
<td>$529,400</td>
<td>642 150</td>
</tr>
<tr>
<td>Train Station &amp; Southeast Sector</td>
<td>$125,000</td>
<td></td>
<td>$125,000</td>
<td></td>
</tr>
<tr>
<td>Pay-by-plate</td>
<td>$1,000,000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL (without subsidies)**

TBD $15,573,800 $14,497,400 $16,033,500 $15 787 750

**Subsidies (see notes)**

TBD $1,250,000 $1,879,000 $1 681 700

**TOTAL (with subsidies)**

TBD $13,247,400 $14,154,500 $14 106 050

### Notes

The 20 year average investment amounts do not include special projects.
SUMMARY

- Roads, Sidewalks, Traffic & Street Lights: $2,5M
- Water + Sewers: $0,6M
- Building: $1,3M
- Parks: $0,6M
- Vehicles: $2,8M
- Hydro Westmount (Electr. Distr. Only): $2,6M
- IT: $0,6M
Thank you / Merci