2018 Street Reconstruction Project – Franklin Trail Improvements

December 11, 2017
Public Improvement Hearing
Project Objectives

- Reconstruct Deteriorated Streets
- Upgrade City Underground Utilities
  - Sanitary Sewer
  - Watermain
  - Storm Sewer
Franklin Trail – Construction History

2007
2008
2009
2010
2018
2005
Street Improvements (Reconstruction)

Existing
• State Aid collector street
• 44’ wide bituminous street with B618 concrete curb & gutter
• Sidewalk on east side
• Overall Condition Index (OCI) = 17.65

Proposed
• Narrow road to 38.66’ wide (11’ lanes & 8.33’ parking lanes) with B618 concrete curb
  • Traffic calming
• Removal and replacement of existing sidewalk
• Add sidewalk to the West side of street
• 9-ton design street section to meet State Aid Standards
  • 5” Bituminous
  • 12” Aggregate Base
  • 18” Granular Material
Street Improvements
(Reconstruction)

Construction Impacts

• Residents of Franklin Trail will not be able to get to their homes during construction hours (7am – 7pm).
• Road is closed to through traffic.
• Road will be dirt at times.
• Portions of driveways will be torn up and rock.
• Mail delivery will occur outside of the construction area.
What's Under My Street
Utility Improvements

- **Sanitary Sewer**: Replace 8” VCP with new PVC pipe, re-route force main.
- **Water Main**: Replace existing with 8” PVC
- **Storm Sewer**: Replacement and extension of storm sewer system
Watermain

Existing

• Constructed in 1972
• 8” Cast Iron Pipe (CIP)

Proposed

• Replace 8” CIP with 8” PVC
• Replace existing water services to the Right-of-way
• Replace curb stops
• Replace hydrants
• Replace gate valves.

Construction Impact

• Temporary water service
• Water shutdowns
  • Planned water shutdowns will be noticed.
  • Unplanned shutdowns can happen without notice.
Sanitary Sewer

Existing

• Constructed in 1971
• 8” Vitrified Clay Pipe (VCP)
• 6” Cast Iron Pipe (CIP) Forcemain

Proposed

• Replace 8” VCP with 8” PVC
• Replace existing sanitary sewer services to the Right-of-way
• Replace manholes
• Replace and re-route 6” forcemain.
• Sewer services will be replaced to right-of-way.

Construction Impact

• Road will be torn up with 10-14’ excavations for pipe installation.
• Service replacement can get beyond right-of-way and into front yards with excavation.
Forcemain Replacement

Existing

• 6” Cast Iron Pipe (CIP) Forcemain
• Currently is pumped South to the intersection of Bluff Heights Trail and Franklin Trail
• Has capacity to accommodate approximately 30-50 additional homes.

Proposed

• Replace the existing 6” forcemain with an 8” forcemain.
• Re-route an 8” forcemain North to the Edgewood School entrance and Franklin Trail.
• This will add capacity to accommodate 300 additional homes.
  • Pumps will be upgraded in the future as additional homes are added.

Construction Impact

• $180,900 addition to the project.
• Requires boring under CSAH 44.
WSB conducted a sanitary sewer study in 2014.

Capacities of the Franklin Trail and Credit River lift stations were evaluated for future development and incorporating existing homes on well and septic.
Storm Sewer

Existing

• Constructed in 1970’s
• Reinforced concrete pipe

Proposed

• Due to the proposed road alignment the storm sewer will have to be replaced.
• Replace pipe
• Replace manholes
• Add storm water management structures as necessary.

Construction Impact

• Road will be torn up with 4-8’ excavations for pipe and structure installation.
## Estimated Project Costs

<table>
<thead>
<tr>
<th>ITEM</th>
<th>ESTIMATED PROJECT COSTS</th>
<th>ASSESSMENTS</th>
<th>CITY SHARE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Streets¹</td>
<td>$1,032,400</td>
<td>$298,603</td>
<td>$733,797</td>
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<tr>
<td>Sanitary Sewer</td>
<td>$256,800</td>
<td></td>
<td>$256,800</td>
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<tr>
<td>Sanitary Sewer Forcemain</td>
<td>$180,900</td>
<td></td>
<td>$180,900</td>
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<tr>
<td>Watermain</td>
<td>$294,300</td>
<td></td>
<td>$294,300</td>
</tr>
<tr>
<td>Storm Sewer¹</td>
<td>$147,200</td>
<td>$58,880</td>
<td>$88,320</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$1,911,600</strong></td>
<td><strong>$357,483</strong></td>
<td><strong>$1,554,117</strong></td>
</tr>
</tbody>
</table>

¹ Includes $285,892.50 in collector street costs that are not assessable (9-ton design, over 36' wide)
# Estimated Project Costs

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PROJECT TOTAL</th>
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</thead>
<tbody>
<tr>
<td>Tax Levy</td>
<td>$822,117</td>
</tr>
<tr>
<td>Assessments (40% of Street &amp; Storm Sewer)</td>
<td>$357,483</td>
</tr>
<tr>
<td>Sewer Fund</td>
<td>$437,700</td>
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<tr>
<td>Water Fund</td>
<td>$294,300</td>
</tr>
<tr>
<td>Assessment Roll (Per Acre) Reconstruction</td>
<td>$25,626</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$1,911,600</strong></td>
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Assessment Review Workgroup

- Met on October 25, 2017
  - Reviewed the Assessment Map
  - Reviewed the Estimated Project Cost
  - Reviewed the Method of Assessment: Area vs Unit
  - Reviewed the Estimated Assessment Amount
Estimated Assessments

- Street and Storm Assessment 10 Year Period
- Typical City Lot (1/3 acre) ~ $8,500 ($850 per year plus interest)
- Townhomes ~ $2,400 - $5,500 ($240 - $550 per year plus interest)
- Assessment Rate 2% greater than Project Bond Rate (2017 Rate 3.80%)
- Assessments Based on Benefit

<table>
<thead>
<tr>
<th>Assessment (40%) Street &amp; Storm</th>
<th>Reconstruction</th>
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<tr>
<td>$357,483</td>
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<table>
<thead>
<tr>
<th>Assessment – Area Method</th>
<th>13.95 Acres (rounded)</th>
</tr>
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<tbody>
<tr>
<td>Assessable Area</td>
<td>$25,626/Acre</td>
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## Preliminary Project Schedule

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>DATE</th>
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<tbody>
<tr>
<td>Held First Informational Meeting</td>
<td>June, 2017</td>
</tr>
<tr>
<td>Accept Feasibility Report / Call for Public Hearing</td>
<td>November 20, 2017</td>
</tr>
<tr>
<td>Second Informational Meeting</td>
<td>December 6, 2017</td>
</tr>
<tr>
<td><strong>Conduct Public Hearing/Order Project</strong></td>
<td>December 11, 2017</td>
</tr>
<tr>
<td>Third Informational Meeting</td>
<td>February 2018</td>
</tr>
<tr>
<td>Approve Plans and Specifications / Order Advertisement for Bids</td>
<td>February 2018</td>
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<tr>
<td>Open Bids</td>
<td>March 2018</td>
</tr>
<tr>
<td>Accept Bids/Award Contract</td>
<td>May 2018</td>
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<tr>
<td>Begin Construction</td>
<td>May 2018</td>
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<tr>
<td>Complete Base Course of Bituminous Pavement</td>
<td>September 2018</td>
</tr>
<tr>
<td>Authorize Amount to be Assessed/Schedule Assessment Hearing</td>
<td>September 2018</td>
</tr>
<tr>
<td>Conduct Assessment Hearing/Adopt Assessment Roll</td>
<td>October 2018</td>
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</tbody>
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Project Feedback

Informational Meeting

• Held December 6, 2017
• 0 property owners in attendance

Project Questionnaire

• No questionnaires were filled out and turned into City
A super majority (4/5 vote) is required to order the project.