

CANAL STREET Reconstruction & Extension Project



1993

BRW Feasibility Study Estimate: \$34.8 Million

- While the alignment & scope of the feasibility study was different from what was ultimately built this estimate provided an “order of magnitude”.
- Did not include major project components, such as, right-of-way, environmental remediation, geotechnical analysis, etc.
- BRW report was communicated to Common Council on July 17, 1995.
- Ultimately this cost estimate led City officials to seek grant funding from the State.

September 7th 2001

Letter to Public Improvements Committee
File #010651

Estimated Project Costs: \$26,950,000
(Eligible Costs related to WisDOT grant.
Did not include Sewer or Water)

Resolution set up \$3,200,000 for PE

Estimate Breakdown was:

■ Preliminary Engineering	\$ 3,200,000
■ Real Estate and Railroad	\$ 3,750,000
■ Construction (Paving)	<u>\$20,000,000</u>
	\$26,950,000
■ New Sewer Estimate, West End	\$ 2,000,000
■ New Water Estimate, West End	<u>\$ 1,050,000</u>
Total Estimate:	\$30,000,000

Resolutions Passed by Common Council for Canal Street Reconstruction/Extension Project

2002

20168	Expansion of Capacity Sanitary Sewer PE	\$25,000
20228	WisDOT Project Grant Agreement	\$3,450,000
	<ul style="list-style-type: none">• Superceded CC Res. 010651• Set-up Preliminary Engineering	

Total Funds Authorized (so far)	\$3,475,000
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Resolutions Passed by Common Council for Canal Street Reconstruction/Extension Project 2003

30340	Water	\$10,000
30453	Right-of-Way Plat	\$1,900,000
30925	Expansion of Capacity Sewer Relay	\$40,000
31103	Water – Hydrant Alteration	\$10,000
31196	New Sanitary Sewer / Storm Sewer Relay	\$3,375,000
31209	Street Lighting	\$309,000
31256	Construction Contract (6 th – 25 th)	\$12,274,000
	25 th – Miller Park Eligible for WisDOT Participation	
	Set-up HAST Real Estate	
31321	Water Main Relay	\$165,000
31538	Underground Conduit	\$375,000
31650	Abandoning & Altering Water Main	\$105,000

Total Funds Authorized (so far) \$22,038,000

Resolutions Passed by Common Council for Canal Street Reconstruction/Extension Project

2004

40007	MMSD MOU for Bioretention / Lift Station Facility	\$682,500
	<ul style="list-style-type: none">• Listed cost Cost @ \$2.35M• Authority to accept MMSD grant of \$682.5K	
40690	Sewers	\$15,000
40944	Water	\$15,000
40945	Design Extra	\$200,000
40946	Water – Abandoning Branches / Water Main Alts.	\$200,000
41030	Expansion of Capacity – New Sanitary Sewers (6 th to 25 th)	\$1,700,000
41034	Early Out Bridge Steel	\$3,350,000
41234	Water – Canal Street, Falk Drive, Greves Street	\$30,000
41237	Water	\$450,000
41287	Street Lighting	\$208,000
41290	Design Extra	\$1,200,000

Resolutions Passed by Common Council for Canal Street Reconstruction/Extension Project

2004 (Continued)

41349	Water – Canal St., Falk Drive, Greves St.	\$1,950,000
41405	Construction Contract (25 th – Miller Park)	\$15,645,600
	WisDOT Grant Agreement Amendment (\$5M/\$3M)	
41466	Sewers	\$3,961,500
41467	Sewers	\$1,250,000

Total Funds Authorized (so far)	\$52,895,600
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Resolutions Passed by Common Council for Canal Street Reconstruction/Extension Project

2005

50563	Bridge Pilings	\$650,000
50720	Protection of RR Facilities Below Bridges Contaminated Soils (Water & Paving)	\$950,000
50808	Water (Assessable)	\$248,500
51014	Miller Park Reversible Lanes (ITS Project)	\$0
51330	Contaminated Soils, Sewer	\$250,000

Total Funds Authorized (to date) \$54,994,100

November 1st, 2005

Estimate of overall project
presented to the Public Works
Committee:

\$51,690,000

Expected costs to date

(In agreement with the Comptroller's office)

\$52,900,000

(In Millions)

\$52.9

■ Less	\$9.70	Sewers
■ Less	\$3.00	Water
■ Less	\$4.90	Design Engineering
■ Less	\$0.40	Hank Aaron State Trail
■ Less	\$0.40	Miller Park Traffic Control
■ Less	\$0.50	Additional West-End Piles
■ Less	\$8.00	Pre-Bid Estimate Increase
■ Less	\$2.20	Right-of-Way (R/W) Costs
■ Less	\$1.50	RR in original estimate (\$3.75) less R/W costs above \$2.2
■ Less	\$0.70	Utility Costs

Today's comparison of costs
associated with the original paving
construction estimate in 2001

\$21.6M

Approximately an 8% increase
to the \$20 M paving construction estimate

Summary

Major cost increases were experienced primarily in:

- Sewer
- Water
- West End Paving (Poor Soils)

Recommendations:

- 1 & 2. DPW will develop and distribute comprehensive cost estimates with contingency factors appropriate to the uncertainty level, inflation factors, and cost ranges where necessary at the onset of the project development process to establish a reasonable starting point for budgeting purposes.

Recommendations:

3. DPW believes the existing internal management of capital funding programs, with the proposed project reporting improvements, allows for adequate monitoring and oversight, while affording the necessary flexibility to make the most efficient use of our resources.

DPW does, however, agree that larger “Mega Projects” may warrant separate budgeting outside of DPW’s existing capital programs.

The audit indicated that 9 projects were delayed as a result of funding a west end access road with local street funds. The decision was made as a result of project deletions at public hearing. No projects were delayed as a result of using these local funds.

Recommendations:

4. DPW is in the process of and is committed to working with the Comptroller's Office and the Budget Office to develop project status reports and finalize other actions currently under development in conjunction with the Mayor's "Accountability In Management" (AIM) initiative in an effort to improve project reporting and allowing for more efficient project oversight.

Resolutions for paving projects will now reflect total project costs to date and total project information will be available through Map Milwaukee on the City's web site.

Recommendations:

5. DPW did assign a project engineer to perform overall design oversight and project coordination activities.

Multiple areas of expertise are required to successfully implement major public works projects. As such, DPW's long standing procedures incorporate a division of responsibilities for specific project components under the general authority of the City Engineer and the Commissioner of Public Works.

With this being said, DPW is committed to exploring ways to improve project management and will continue with ongoing efforts in conjunction with the Mayor's AIM initiative and the independent study of the Capital Budgeting Program.

Recommendations:

6. DPW will secure Common Council authority any time costs are expected to exceed Common Council authority by \$150,000.
7. DPW will and is working towards specifying a maximum dollar amount in all contracts.

Recommendations:

8. While DPW makes every attempt to competitively bid all work, analysis by DPW revealed that the change order for a 12" water main under the Menomonee River at \$178,082 was justified.

Construction method and original WisDNR permit for the water main section under the Menomonee River was determined to be impractical and cost prohibitive and was removed from the original contract.

With a revised WisDNR permit and an alternative construction method for river crossings a reasonable price was negotiated (based on agreed upon unit prices) and a change order was issued so that the permit deadline could be met.

Recommendations:

8 (continued). DPW analysis concluded that the \$25,644 costs associated with the change order for rental of a generator was reasonable. The generator was used to provide power to Bulk Logistics cement loading & unloading operations for 47 days while WE Energy electric lines were de-energized so that appropriate equipment could be used to complete sanitary sewer work between 21st St. and 22nd St. Approximately \$14,000 was for the generator rental and the remaining \$11,000 was for generator hook-up, maintenance, and fuel costs.