

Engineering, Environmental Services and Public Works Special Committee Meeting
Tuesday, March 22, 2016
5th Floor Boardroom – City Hall

Present:

Councillor Vrebosch, Committee Chair
Councillor Serran, Committee Member
Mayor McDonald, Committee Member (at 12:19 after Cedar Heights discussion)
Jerry Knox, Chief Administrative Officer
David Euler, Managing Director Engineering, Environmental Services and Works
Adam Lacombe, Senior Capital Program Engineer
Reid Porter, Infrastructure Engineer
Domenic Schiavone, Director of Public Works
Karin Pratte, Senior Facilities and Environment Engineer
Shannon Saucier, Director of Financial Services

Regrets:

Councillor Mayne

Minutes;

The Committee Chair, Councillor Vrebosch, called the meeting to order at 12:05 p.m.

1. Review of Capital projects with budget greater than \$2,000,000

Cedar Heights Watermain (By David Euler)

- Construction contract
 - Original contract value was \$5.16 million
 - Projected final is \$4.13 million
 - Projected surplus of about \$1.03 million
- About \$475,000 of surplus is due to not proceeding with provisional extension of work on Larocque Rd
- Only work for this spring is to address deficiencies
- Resolved claims for decorative lights and rock elevation discrepancy

Cedar Heights BPS (By David Euler)

- Construction contract
 - Original contract value was \$2.47 million
 - Projected final is \$2.10 million
 - Projected surplus of about \$0.37 million
- Project is nearing completion – recently changed scope to add VFD's – will add about four weeks to project duration and will cost about \$30,000 to \$50,000 (above surplus accounts for this extra cost)
- Station expected to be put in service mid-April

Cedar Heights Combined Project (By David Euler)

- Overall project has a projected surplus of \$1.09 million

Ferguson Phase 2 & 3 (By David Euler)

- Construction contract
 - Original contract value was \$4.15 million
 - Projected final is \$3.63 million
 - Projected surplus of about \$520,000
- Only minor restoration work left to complete this spring (some sidewalk, curb, grass, and two driveways) and address any deficiencies
- Overall project has a projected surplus of \$575,000

Seymour & Hwy 11/17 (By David Euler)

- Design progressed stalled after departure of Development Review Engineer
- New Municipal Engineer will take on project (starts on the 22nd)
- Detailed design is about 90% complete
- Final review of drawings and tender docs by City and revisions by consultant anticipated to be completed over the next three weeks – will then be submitted to MTO
- Final MTO review estimated to take 4 weeks (nine different departments involved in the review)
- Tender date anticipated mid to late May
- Tender close mid to late June
- Contract award and contract prep for an early to mid-July construction start
- Construction will be carried out over two years
- First year will include installation of storm sewers and relocation of street lights
- Second year will include intersection and lane widenings and new traffic signals

- Cost share with MTO is estimated to be 57% City and 43% MTO – will be finalized once with completion of the design
- Current estimated construction cost is \$4.0 million

Asphalt Resurfacing (By David Euler)

- Roads were driven last year to update condition data
- New data is taking longer than expected to process and update modelling
- A final model is anticipated just before or just after Easter
- Candidate generation and tender prep will need to be fast tracked – hope to complete in 2 or 3 weeks
- Anticipated tender date of April 15th; Tender close May 6th; Award at May 16th Council Meeting
- Contract prep, internal admin, & execution by May 27th
- Written Order to Commence May 30th
- Budget is \$4.0 million plus added pathway work for Parks & Rec

John St Bridge (by Reid Porter)

- Construction contract
 - Original contract value was \$2.17 million (HST not included)
 - Total Projected Budget is \$2.79 million
 - Estimated Final Project Cost \$2.49 million
- Remaining works include guard rails on retaining wall, final grading and paving of pathway, and final lift of asphalt on roadway.
- Overall project is estimated to have a projected surplus of approximately \$300,000. Contingent on outstanding contractor claims and completion of works.

Ski Hill Trunk Sewer (by Reid Porter)

- Project was tendered. Tender closed on March 11th.
- Unofficial low bid is Bruman Construction at \$2.15 million (HST not included)
- Total project budget is \$4.2 million. Significantly under budget as original estimate included directional drilling a large portion of the project.
- Award at April 4th Council Meeting.
- Contract prep, internal admin and execution by April 15th.
- Written Order to Commence work on April 18th.
- Bruman's preliminary schedule demonstrates project completion by mid-November of this year. Do not anticipate work to
- Contract includes restrictions on the Ski Hill. Works may not begin prior to April 15th and must be completed by October 31st due to the Ski Hill's operation.
- Clearing of trees is required for the sewer installation and therefore \$25,000 is budgeted for the planting of trees and shrubs on the escarpment. A clearing will remain along the alignment of the trunk sewer for future access for maintenance and repairs.

Lakeshore Drive Overpass (by Reid Porter)

- Tendering the project in the next couple of days.
- Tender close April 20th.
- Award at May 2nd Council Meeting.
- Contract prep, internal admin, & execution by May 13th
- Written Order to Commence work May 16th
- We have stipulated a fixed contract completion date of November 30, 2016 which is a very tight schedule. We have therefore included cash incentives (max. \$40,000) and disincentives (initial \$20,000 plus \$2,000 per day) as part of the contract to help attain project completion goals.
- There are four (4) construction stages:
 - Stage 1 – West side of bridge will be closed to traffic for construction. East side will remain open with one lane of traffic in each direction.
 - Stage 2 – Same as Stage 1 but for other side of bridge.
 - Stage 3 – Closure of the two inside lanes while maintain traffic on the outside lanes for the construction of the median.
 - Stage 4 – Final lift of asphalt.
- Although pedestrians may walk right up to the bridge before crossing, signage will be provided to encourage crossings at controlled intersections where possible.
- The Kate Pace Way will also need to be detoured during construction. Barrier fencing and signage on either side of the bridge will be in place. Pathway will need to be detoured down Memorial Drive across Lakeshore Drive and back to pathway. Final details to be completed.
- Notices will be sent to the public of future works and anticipated detours to traffic and pedestrians.
- Estimated project budget is \$6.0 million.

Leachate Treatment Facility: (by Karin Pratte)

The Merrick Landfill Site has been in operation for 21 years and has 18 years of expected life remaining. It was originally designed to be a natural attenuation site however the certificate of approval was amended to note that a leachate treatment is required due to environmental concerns with leachate seeps. The landfill has 10 approved cells 5 of which are not lined cells (which means the leachate seeps into the ground) the other cells are engineered which a liner system to collect the leachate and eventually treat it once the new plant is constructed. A drawings of the landfill site was provided and an explanation of the flow of leachate currently was given. It was noted that an option for mining cells 1-5 (which do not have liner system) is being considered by the engineering department. This would extend the life of the landfill.

A description of the leachate treatment facility was provided along with a diagram of the facility. The new facility is 32m x 10m pre-engineered metal clad building which can treat up to 120 m3 leachate per day. The treatment process was described including raw leachate pumping station, aeration tanks, secondary clarifiers, return pumps, blowers and chemical (methanol, Ferric chloride).

The project was awarded to W.S.Morgan at the last Council meeting (Monday March 21st) in the amount of \$4,251,395.00. Construction will start in April 2016 and complete in the Spring 2017. The overall project cost is \$5,842,339 which includes design, inspection, construction, studies and permits.

WWTP Generator (by Karin Pratte)

The existing generator at the Wastewater Treatment Facility is over 40 years old and requires replacement. This generator ensures that power is supplied to the raw sewage pumps during power outages, which is critical. Depending on flow rates, homes can begin to flood with sewage within 10 minutes of the raw sewage pumps losing power. The engineering contract was awarded to Greer Galloway. Design should be complete by June 2016. The City has applied for 1.9 million in funding and if it is obtained the tender can go out Summer 2016.

Meeting adjourned at 1:05 p.m.

Councillor Vrebosch,
Engineering, Environmental Services
and Public Works Committee Chair

David Euler
Deputy City Clerk