



Engineering Capital Infrastructure Update – No.: 02

June 17, 2019 Governance and Priorities
Committee Meeting





Engineering Capital Infrastructure Project Updates

This report is intended to provide Engineering Capital Infrastructure Project Updates and information pertaining to the services which will be procured to assist Administration with Project Delivery. The projects listed are expected to be completed in 2019.

The report is broken down into the following sections:

1. At a Glance
2. Brief Project Descriptions
3. Next Steps
4. Project Location Map

1. At a Glance

Engineering Capital Infrastructure Projects	2019 Expense	2019 Expenditure to Date	% Complete Expenditure	Expected Work Start Date (Q1, Q2, Q3, Q4)	Estimated Construction Completed %
1813603 – Drainage Channel Improvements (NW Drainage)	\$3,978,316.00	\$2,773,119.48	70%	Q1	70%
1813612 - East Storm Channel Rehabilitation (Control Structure)	\$950,845.00	\$532,910.77	56%	Q1	100%
1813613 – Street Rehabilitation (40Avenue)	\$2,985,000.00	\$9,933.00	0.3%	Q2	5%
1813616 – Sanitary Main Replacement	\$1,270,000.00	\$39,038.00	3.1%	Q2	60%
1813618 – Drainage Channel Improvements (East Lake J)	\$585,000.00	\$45,867.00	7.8%	Q3	0%
1813620 – Leachate Management System	\$2,170,000.00	\$23,176.00	1.1%	Q2	2%
1913610 – Drainage Improvements (75 Avenue)	\$300,000.00	\$0.00	0%	Q2	0%
1913611 – Neale Edmunds Storm System Improvements	\$250,000.00	\$0.00	0%	Q4	0%
1913620 – 2019 Street Improvement Program	\$3,000,000.00	\$18,714.00	0.6%	Q1	5%
1913621 – 2019 Water and Sewer Replacement Program	\$2,500,000.00	\$0.00	0%	Q2	0%
1913623 – Traffic Signal Installation – Commercial Development	\$250,000.00	\$0.00	0%	Q2	0%
1913624 – Dangerous Good Route and Truck Route Established	\$150,000.00	\$0.00	0%	Q2	0%
1913640 – Sidewalk Condition Survey	\$31,000.00	\$0.00	0%	Q2	0%
1913651 – Road Condition Survey	\$31,000.00	\$0.00	0%	Q2	0%
1961209 – Martin Brown School Demolition	\$250,000.00	\$0.00	0%	Q2	0%
2013620 – 2020 Street Improvement Program	\$300,000.00	\$0.00	0%	Q3	0%
2013631 – 2020 Water and Sewer Replacement Program	\$150,000.00	\$0.00	0%	Q3	0%



2. Brief Project Descriptions

1813603 – Drainage Channel Improvements (North West Drainage Channel)

- Approved Budget: \$3,978,316.00
- Project Description: The program will consist of the rehabilitation of the Northwest Drainage Channel system between the 57 Street crossing and the 67 Street crossing. Within the program four (4) culvert crossings and two (2) channel sections will be improved. The Engineering Team will be completing the Construction Management for this project in-house. Contractor Services were procured in 2018 and will continue through the remainder of the program in 2019.
- Services to be Procured: None
- Project Status: Two of three culvert crossings have been completed. Road rehabilitation of the road crossings are on-going and should be completed by June 22, 2019. Following this, landscaping activities will take place. The final road crossing at 67 Street as well as the regrading of the channel sections will be done in mid to late September depending on weather. All activities within this phase of the project are anticipated to be complete by November 30, 2019.
- Estimated construction work completed to date: 70%.
- Expenditure to date: \$2,773,119.48

1813612 – East Storm Channel Rehabilitation

- Approved Budget: \$950,845.00
- Project Description: The program will consist of the rehabilitation of the outfall control structure within the East Drainage Channel system located South East of the Waste Water Treatment Facility. Within the program the control structure and channel sections will be improved. The Engineering Team will be completing a portion of the Construction Management in-house, while the current consultant will be providing Construction Management services associated with the reinforced concrete drop structure. Contractor Services were procured in 2018 and will continue through the remainder of the program in 2019.
- Services to be Procured: None
- Project Status: All construction activities have been completed. The final progress payment as well as the release of the holdback funds are still outstanding. The project is now in its two (2) year warranty period. Following this, a Final Acceptance Inspection will be completed in 2021.
- Estimated construction work completed to date: 100%
- Expenditure to date: \$532,910.77

1813613 – Street Rehabilitation (12-44 St/40 Ave)

- Approved Budget: \$2,985,000.
- Project Description: The program will consist of the rehabilitation of 40 Avenue between 12 Street and south of 41 Street through full depth reclamation using foamed asphalt. This program will be completed in conjunction with the 1813618 – Drainage Channel Improvements (East, Lake K) program. Consultant Services associated with Design, Project Management and Construction Management were previously procured in 2018 and will continue through the remainder of the program in 2019
- Services to be Procured: None.
- Project Status: Preconstruction meeting occurred on April 23, 2019. Construction commenced the week of June 3, 2019. The roadway between 41 Street and 12 Street is currently barricaded and closed off to motorists. Estimated end date is mid-July 2019.
- Estimated construction work completed to date: 5%



- Expenditure to date: \$9,933.00

1813616 - Sanitary Main Replacement (36-40 St/48 Ave)

- Approved Budget: \$1,270,000.00
- Project Description: The program will consist of completing the removal and replacement of the Sanitary Sewer Main and related appurtenances along 45 Avenue between 44 Street and 46 Street in order to improve the existing Sanitary Sewer Trunk Main. These improvements are in conjunction with improving the capacity of the Sanitary Sewer Main along 47 Avenue between 40 Street and 44 Street in an effort to minimize surcharging within the 36 Street Sanitary Sewer Trunk Main. Consultant Services associated with Design were previously procured in 2018. The Engineering Team will be completing the Construction Management for this project in-house.
- Services to be Procured: None
- Project Status: To date, the Contractor has installed the sanitary main between 45 Street and 46 Street as well as the 44 Street connection; it is anticipated that the portion on 44 Street at 45 Avenue will be open to the public by June 7, 2019. This project is scheduled to be completed by late June, early July 2019.
- Estimated construction work completed to date: 60%
- Expenditure to date: \$39,038.00

1813618 - Drainage Channel Improvements

- Approved Budget: \$585,000.00
- Project Description: The program will consist of completing the removal and replacement of one (1) culvert crossing within the East Drainage Channel near 40 Avenue. The crossing location has been selected to be improved due to the timing of the 40 Avenue Rehabilitation Project scheduled for mid-summer 2019. Consultant Services associated with Design and Project Management were previously procured in 2018 but will cease in 2019. The Engineering Team will be completing the Construction Management for this project in-house.
- Services to be Procured: Contractor Services.
- Project Status: Request for Tender to be drafted and issued to the City of Lloydminster's Pre-qualified Underground Contractors in Q3. Coordination within the 40 Avenue rehabilitation project is ongoing
- Estimated construction work completed to date: 0%
- Expenditure to date: \$45,867.00

1813620—Leachate Management System

- Approved Budget: \$2,170,000.00
- Project Description: The program includes the construction of a new Leachate Management Pond, tie-ins to the existing Landfill Cells 1.1, 1.2 and 1.3, and the installation of a force main to transfer leachate to the Waste Water Treatment Facility. Consultant Services were procured in 2018 to complete the design and Construction Management for the program. Contractor services were procured in early 2019.
- Services to be Procured: None.
- Project Status: The Preconstruction Meeting has been completed with the anticipated construction start date set for June 03, 2019.
- Estimated construction work completed to date: 2%
- Expenditure to date: \$23,176.00



1913610—Drainage Improvements (75 Avenue / 29-44 Street)

- Approved Budget: \$300,000.00
- Project Description: The program includes the completion of a detailed design and creation of a tender package to remediate the ditch along the east side of 75 Avenue between 29 Street and 44 Street in an effort to minimize standing water and promote feasible ditch maintenance. The Engineering Team will be completing the Design, Project Management and Construction Management for this project in-house.
- Services to be Procured: Contractor Services.
- Project Status: Due to the nature of the program, Engineering Services will be initiating the program in Q3 to permit construction in Q4 when weather permits. Husky Energy Inc. Crossing Agreements are being reviewed by Engineering Services.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

1913611 —Neale Edmunds Storm System Improvements

- Approved Budget: \$250,000.00
- Project Description: The program includes the remediation of the final control structure within the Neale Edmunds System. The program will consist of the removal and replacement of the existing Corrugated Steel Pipe (CSP) Culverts and associated channel rehabilitation. The Engineering Team will be completing the Design, Project Management and Construction Management for this project in-house.
- Services to be Procured: Contractor Services
- Project Status: A Request for Bid will be prepared and issued to the City of Lloydminster's Pre-qualified Underground Contractors early in Q4. Construction will take place under frozen conditions once a Contractor has been procured.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

1913620 – 2019 Street Improvement Program

- Approved Budget: \$3,000,000
- Project Description: The City of Lloydminster's annual Street Improvement, Asphalt Trail Improvement and Concrete Sidewalk Improvement Programs includes various locations throughout the City of Lloydminster. BAR Engineering Co. Ltd. will be completing the Consultant Services associated with Design, Project Management and Construction Management. D. Jorgenson Holdings O/A Northern Blacktop will be completing the Contractor Services.
- Services to be Procured: None
- Project Status: Project kick-off meeting was held on May 24, 2019. Construction to commence week of June 03, 2019. Several site walkthroughs have been completed to outline the scope of work within the project areas. Public notices have been drafted and will be distributed as work commences in the areas the notice pertains to. The anticipated construction completion date is September 15, 2019.
- Estimated construction work completed to date: 5%
- Expenditure to date: \$18,714.00



1913621 – 2019 Water and Sewer Replacement Program

- Approved Budget: \$2,500,000.00
- Project Description: The City of Lloydminster's annual Water and Sewer Main Replacement Program. The 2019 program will consist of 47 Avenue between 41 Street and 44 Street. The improvements along 47 Avenue are in conjunction with the upgrades proposed for 45 Avenue as both programs are an effort to minimize surcharging within the 36 Street Sanitary Sewer Trunk Main. The design phase has been completed as part of the Sanitary Main Replacement program (1813616). Consultant Services associated with Project Management and Construction Management will be procured in 2019.
- Services to be Procured: Consultant Services & Contractor Services
- Project Status: BAR Engineering Co. Ltd. has been procured to provide the Project Management and Construction Management Services associated with the program while Rusway Construction Ltd. has been procured to complete the construction phase of the program. Construction is scheduled to start on June 5, 2019 starting with the installation of the safety fence and traffic accommodation. The anticipated construction completion date is September 30, 2019.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$2,023.21

1913623 – Traffic Signal Installation – Commercial Development (75 Avenue)

- Approved Budget: \$250,000.
- Project Description: The program includes the design and construction of proposed traffic signals at the intersection of Best Buy/Sobeys' and 75 Avenue. A design-build procurement strategy will be used, as such Consultant Services associated with Design, Project Management and Construction Management, and Contractor Services will be procured concurrently in 2019.
- Services to be Procured: Contractor Services
- Project Status: Owner's Engineer has been selected and is currently compiling a tender package for review by the Engineering Team. The Predesign Meeting was held on May 14, 2019.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

1913624 – Dangerous Goods Route and Truck Route Establishment

- Approved Budget: \$150,000.
- Project Description: The program includes the review of existing information and development/updating of a Dangerous Goods Route and Truck Route within the City of Lloydminster. Consultant Services associated with Design and stake-holder engagement will be procured in 2019.
- Services to be Procured: None
- Project Status: Request for Proposal submissions have been reviewed. Notice of Acceptance to be issued with the Independent Consultant Agreement attached to it. Both the Notice of Acceptance and Independent Consultant Agreement are under review before distribution.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00



1913640 – Sidewalk Condition Survey

- Approved Budget: \$31,000.00
- Project Description: The intent of the Sidewalk Survey Condition Survey project is meant to record and track the condition of the City of Lloydminster's surface infrastructure on an annual basis. The data collected is imported and analyzed in the RoadMatrix Software to help prioritize which links of the sidewalk should be remediated or considered for repair, in preparation for a more formal Asset Management plan.
- Services to be Procured: Consultant Services
- Project Status: A Request for Quotation (RFQ) has been prepared and was issued on May 27, 2019 and will close the week of June 10, 2019. Once received Administration will review the submissions and select the successful Vendor.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

1913651 – Road Condition Survey

- Approved Budget: \$31,000.00
- Project Description: The intent of the Road Condition Survey project is meant to record and track the condition of the City of Lloydminster's surface infrastructure on an annual basis. The data collected is imported and analyzed in the RoadMatrix Software to help prioritize which links of the roadway should be remediated or considered for repair, in preparation for a more formal Asset Management plan.
- Services to be Procured: Consultant Services
- Project Status: A Request for Quotation (RFQ) has been prepared and was issued on May 27, 2019 and will close the week of June 10, 2019. Once received Administration will review the submissions and select the successful Vendor.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

1961209 – Martin Browne School Demolition

- Approved Budget: \$250,000.00
- Project Description: The program will consist of the demolition and removal of the existing Martine Browne School and associated infrastructure including the removal of the main building, asphalt concrete pavement parking lot, curb and gutter, shallow and municipal utilities, playground equipment and boardwalks, and restoring the site to a green space. Upon completion of the program, all surface infrastructure, excluding the basketball courts, will be removed from site. The Engineering Team will be completing the Design, Project Management and Construction Management for this project in-house. Coordination with other departments including Parks, Land Division, and Building Maintenance has been completed to ensure the intent of the program aligns with the future intent of the site.
- Services to be Procured: Contractor Services
- Project Status: A Bid Document has been prepared and is in the final stages of Administrative review. Upon completion of the review, the document will be posted to the City of Lloydminster's Bids & Tenders website. A completion date of October 15, 2019 has been included in the Bid Document.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00



2013620 – 2020 Street Improvement Program

- Approved Budget: \$300,000.
- Project Description: Preparation for the City of Lloydminster's annual Street Improvement, Asphalt Trail Improvement and Concrete Sidewalk Improvement Programs. The areas to be included in the program will be reviewed by the Engineering Team in conjunction with the Operations Group. Consultant Services associated with Design and Project Management will be procured in 2019.
- Services to be Procured: Consultant Services
- Project Status: Location list is being compiled for 2020. Request for proposal for consultant to be drafted and issued in Q3.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

2013631 — 2020 Water and Sewer Replacement Program

- Approved Budget: \$150,000.00
- Project Description: Preparation for the City of Lloydminster's annual Water and Sewer Main Replacement Program. The areas to be included in the program will be reviewed by the Engineering Team in conjunction with the Operations Group. Consultant Services associated with Design and Project Management will be procured in 2019.
- Services to be Procured: Consultant Services
- Project Status: Location list is being compiled for 2020. Request for proposal for consultant to be drafted and issued in Q3.
- Estimated construction work completed to date: 0%
- Expenditure to date: \$0.00

3. Next Steps

- Engineering Team to determine appropriate dates for preparing procurement documents.
- Procurement services are required for each program as per the City of Lloydminster Procurement and Purchasing Policy.
- Coordinate with other City departments to ensure all stakeholder concerns and requirements are accounted for.



4. Project Location Map

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