



Capital Infrastructure

2022 Update – No.: 04

2023 Update – No.: 01

**February 13, 2023
Governance and Priorities
Committee Meeting**

Capital Infrastructure Project Updates

This report is intended to provide a Capital Infrastructure Project Update as well as information pertaining to the services which will be procured to assist Administration with project delivery.

The report is broken down into the following sections:

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1. At a Glance

2020 Carry Forward Projects:

Capital Infrastructure Projects	Expected Project Completion Date (2023)	Estimated Project Completion Status
2013613 - Lloydminster Helipad Crossing Improvements – Construction	Q2	90%
2013604 - Central Business District Replacement Program - Planning and Design Services (Underground Assessment)	Q1	95%

2021 Carry Forward Projects:

Capital Infrastructure Projects	Expected Project Completion Date (2023)	Estimated Project Completion Status
2113605 - Northwest Drainage Channel - Phase III - Construction	T.B.D.	ON HOLD

2022 Carry Forward Projects:

Capital Infrastructure Projects	Expected Project Completion Date (2023)	Estimated Project Completion Status
2213628 – Public Transportation Master Plan	Q2	40%
2213631 – East Drainage Channel Improvements (Lake K Pond & Control Structure) – Construction	Q1	80%
2213633 – Sanitary Sewer Master Plan	Q2	60%
2213637 – 2022 Offsite Levy Update	Q1	65%
2241035 – Old Water Treatment Plant and West End Reservoir Pump House – Building and Site Demolition	Q3	90%
2241107 – Water Treatment Plant – Ultraviolet Light Disinfection – Construction	Q4	30%
2241118 – Water System Assessment (Water Master Plan)	Q2	60%
2276103 – Lloydminster Cultural & Science Centre – Building and Site Demolition	Q3	95%
2313605 – 2023 Surface Improvement Program – Design Services	Q1	90%

2023 Projects:

Capital Infrastructure Projects	Expected Project Completion Date (2023)	Estimated Project Completion Status
2213629 – 50 Avenue and 67 Street Intersection Upgrades – Construction	Q3	5%
2313604 – 2023 Street Improvement Program – Construction	Q3	5%
2332007 – 50 Avenue Asphalt Walking Trail – Construction	Q3	2%
2332008 – 44 Street Asphalt Walking Trail – Construction	Q3	2%
2332005 – 2024 Surface Improvement Program – Design Services	Q2	0%
2332006 – 52 Street between 67 Avenue and 75 Avenue – Design Services	Q2	0%
2335014 – Storm Sewer Collection Master Plan	Q4	2%
2335016 – East Drainage Channel Improvements Phase IV – Channel – Construction	Q4	10%
2335017 – Northwest Drainage Channel Improvements Phase IV – Design Services	Q3	10%
2342002 – Water and Sewer Replacement Program – Design Services	Q2	0%
2342004 – Northeast (NE) Effluent Discharge Line	Q4	0%
2342006 – Central Business District Replacement Program – Phase I – Construction	Q4	10%
2343001 – Landfill Cell 1.4 – Design Services	Q3	10%

2. Brief Project Descriptions

2020 Carry Forward Projects:

2013604 – Central Business District Replacement Program – Planning and Design Services (Underground Assessment)

- Project Description:
 - The intent of the Central Business District Replacement Program – Planning and Design Services project will be to address the concerns with aging infrastructure in the downtown core of the City. Bordering on a primary Highway (Highway 17), performing utility upgrades to the Central Business District brings rise to various challenges in construction: Traffic Accommodation, Business Access, etc. To take a proactive approach to the future replacement programs, Engineering Services is seeking to procure a consultant to complete a plan, design, and construction phasing schedule for the Central Business District. This process will include data collection, design of the underground and surface systems, public consultation, traffic accommodation plan creation, and construction phasing options. The goal of the plans will be to create a rehabilitation plan and surface layout that is consistent with the Downtown Area Redevelopment Plan (DARP) and future for the downtown area such as the North-South Corridor project. This will set the foundation for future Water and Sewer Replacement Programs in the downtown area. The limits of the program are tentatively set between 44 Street and 52 Street and between 48 Avenue and 52 Avenue.
- Services to be Procured: None
- Project Status:
 - With the issuing of the Bid Document to the City's Bids & Tenders website to secure the services of a Prime Contractor expected on February 09, 2023, this phase of the project will be complete.

2021 Carry Forward Projects:

2113605 – Northwest Drainage Channel Improvements – Phase III – Construction

- Project Description:
 - The program includes the drainage channel regrade between 57 Street and the CP Railway Crossing along the NW Drainage Channel, the installation of an additional two (2) culverts at the existing CP Railway Crossing and the installation of a concrete vault structure on the south side of the CP Railway Crossing to enable future tie-ins.
- Services to be Procured: Contractor Services.
- Project Status:
 - Engineering Services and the selected Engineering Consultant are currently working through design challenges and constraints associated with installing additional large diameter culverts under active rail lines. The project team is working with the applicable rail line owners and operators to determine feasible construction methodologies while accommodating construction tolerances and timelines. The drainage channel design has been completed with the final design component being the rail crossing.

2022 Carry Forward Projects:

2213628 – Public Transportation Master Plan

- Project Description:
 - The intent of the Public Transportation Master Plan project will be to provide the City with a feasibility assessment, a warrant analysis, and direction associated with the possibility of introducing public transportation services within the City. The master plan will speak to the residents and business owners desire to introduce public transportation services as well as define implementation and operation costs associated with providing such services. The master plan will primarily focus on determining the need for public transportation service as well as the feasibility of providing this service.
- Services to be Procured: None
- Project Status:
 - Engineering Consultant is progressing through the scope of work. The first round of public engagement is complete with the project progressing into the feasibility review stage while initiating the review of preliminary service types and routing options in preparation for the second round of engagement expected for March 2023.

2213631 – East Drainage Channel Improvements (Lake K Storm Water Management Facility & Control Structure) – Construction

- Project Description:
 - The East Drainage Channel Improvements (Lake K Storm Water Management Facility & Control Structure) – Construction project will consist of completing the design review and construction of a control structure at Lake K as well as Lake K delineation within the City's East Drainage Channel. The installation of a control structure and delineating the boundary of the storm water management facility will assist with improving the effectiveness of the storm water management facility while managing and maintaining water levels within the storm sewer and pond system at safe levels.
- Services to be Procured: Contractor Services
- Project Status:
 - The mass haul for clay has been completed. The control structure installation is nearing completion with the final site landscaping to be completed once weather conditions permit. The lake and the control structure are anticipated to be fully operational before the spring melt.

2213633 – Sanitary Sewer Master Plan

- Project Description:
 - The intent of the Sanitary Sewer Master Plan project will be to update the current Master Plans to account for recent development, system upgrades, and changing system needs. The intent of the master plan will be to identify system capacity issues within the existing collection network as well as provide recommendations associated with growth and development opportunities for the collection system. Flow monitoring will also be included in the preparation stages of the master plan to correlate rain fall data to inflow and infiltration (i&i) as well as to accurately adjust the network model. A high-level conditions assessment component will be completed through the collection of limited CCTV data with such data being extrapolated out over the entire collection network to assign approximate condition ratings. The conditions assessment will be limited to high-level observations and recommendations and replacement cost estimates. Data for each segment within the



collection system will not be collected. The main focus of the master plan will be existing collection system capacity issues and growth/development recommendations.

- Services to be Procured: None
- Project Status:
 - Engineering Consultant is continuing through the scope of work with the background data gathering and analysis portion nearing completion. Preliminary stakeholder engagement with the development community has been initiated.

2213637 – Offsite Levy Update

- Project Description:
 - The intent of the Offsite Levy Update project includes the updating of the Offsite Levy model and background report to account for the lands recently annexed by the City of Lloydminster. The 2023 update will build on the update presented in 2021.
- Services to be Procured: None
- Project Status:
 - Engineering Consultant is continuing through the scope of work with the background data gathering and analysis portion nearing completion. The project team is anticipating having a first draft of the revised Offsite Levy rates being presented in mid Q1 2023.

2241035 – Old Water Treatment Plant and West End Reservoir Pump House – Building and Site Demolition

- Project Description:
 - The Old Water Treatment Plant and West End Reservoir Pump House – Building and Site Demolition project will consist of the demolition, removal, and site remediation of the old Water Treatment Plant located along 50 Avenue as well as the old Pump House located along 43 Street at the West End Reservoir and associated infrastructure. These two (2) facilities have been deemed obsolete and as such are to be demolished and the areas rehabilitated to reduce the City's risk associated with having these structures still standing.
- Services to be Procured: None
- Project Status:
 - Both the old Water Treatment Plant and the West End Reservoir Pump House buildings have been demolished and preliminary site cleanup completed. Remaining scopes of work at the old Water Treatment Plant includes the final water main abandonment and the final site landscaping. Remaining scope of work at the West End Reservoir includes the final site landscaping.

2241107 – Water Treatment Plant – Ultraviolet Light Disinfection – Construction

- Project Description:
 - The Water Treatment Plant UV Disinfection – Construction project will consist of the final procurement and installation phase associated with introducing an Ultraviolet (UV) Light disinfection process into the existing Water Treatment Plant. The detailed design of the system is being completed in early 2022 and will be used as the baseline from which all other procurement and construction documents will be created.
- Services to be Procured: None
- Project Status:
 - Due to the timelines associated with the manufacturing and delivery of the UV reactors and the associated equipment and hardware, the installation of the UV reactors has been put on hold until the fall of 2023 to ensure the installation of the UV reactors does not interfere with Water Treatment Plant operations and water quality.

2276103 – Lloydminster Cultural & Science Centre – Building and Site Demolition

- Project Description:
 - The Lloydminster Cultural & Science Centre – Building and Site Demolition project will consist of the demolition, removal, and site remediation of the old Lloydminster Cultural & Science Centre located along 44 Street and associated infrastructure. The building and site demolition work will account for structures and services that are identified as needing to remain while restoring the area to a useable space for the services remaining on the site.
- Services to be Procured: None
- Project Status:
 - The building has been demolished with all services abandoned. Remaining work includes the reconnection of site lighting and electrical, installation of fence, and final site landscaping. The intent will be to restore the area to a useable green space.

2313605 – 2023 Surface Improvement Program – Design Services

- Project Description:
 - Preparation of detailed designs and construction cost estimates 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.
- Services to be Procured: None
- Project Status:
 - The project is nearing completion with the final designs being reviewed by Engineering Services in preparation for tendering the applicable parts in early 2023.

2023 Projects:

2213629 – 50 Avenue and 67 Street Intersection Upgrades – Construction

- Project Description:
 - The intent of the 50 Avenue and 67 Street Upgrade – Construction project will be to implement new traffic signals and additional right turn bays at the intersection of 50 Avenue (Highway 17) and 67 Street.
- Services to be Procured: Contractor Services
- Project Status:
 - Bid Document is being prepared in an effort to have it issued to the City's Bids & Tenders website to secure the services of a qualified Prime Contractor in February. Construction is scheduled to be initiated as early as May 15, 2023.

2313604 – 2023 Street Improvement Program – Construction

- Project Description:
 - The City of Lloydminster's annual Street Improvement Program. The 2023 Street Improvement Program includes various locations throughout the City of Lloydminster. The focus of the 2023 Street Improvement Program – Construction project will be local road rehabilitation as opposed to new construction. The project locations included within the 2023 Street Improvement Program – Construction project are identified within the Project Location Map attached to this report.
- Services to be Procured: Contractor Services
- Project Status:



- Bid Document is being prepared in an effort to have it issued to the City's Bids & Tenders website to secure the services of a qualified Prime Contractor in February. Construction is scheduled to be initiated as early as May 15, 2023.

2332007 – 50 Avenue Asphalt Walking Trail from 12 Street to 25 Street – Construction

2332008 – 44 Street Asphalt Walking Trail from 40 Avenue to 45 Avenue – Construction

- Project Description:
 - The project includes the construction of new asphalt concrete pavement walking trails as recommended within the Trails and Sidewalk Master Plan.
- Services to be Procured: Contractor Services
- Project Status:
 - Bid Document is being prepared in an effort to have it issued to the City's Bids & Tenders website to secure the services of a qualified Prime Contractor in February. Construction is scheduled to be initiated as early as May 15, 2023.

2332005 – 2024 Surface Improvement Program – Design Services

- Project Description:
 - Preparation of detailed designs and construction cost estimates 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.
- Services to be Procured: Engineering Consulting Services
- Project Status:
 - Project will be initiated in late Q1 2023 as data collection will need to be completed in frost, ice, and snow free conditions.

2332006 – 52 Street between 67 Avenue and 75 Avenue – Planning and Design Services

- Project Description:
 - Preparation of detailed designs and construction cost estimates to determine the feasibility of extending 52 Street between 67 Avenue and 75 Avenue prior to major development of the area is complete. The extension of 52 Street will align with the Dangerous Goods and Truck Route as well as look to alleviate traffic demands on other roadways within the area.
- Services to be Procured: Engineering Consulting Services
- Project Status:
 - Project will be initiated in late Q1 2023 as data collection will need to be completed in frost, ice, and snow free conditions.

2335014 – Strom Sewer Master Plan

- Project Description:
 - The intent of the Strom Sewer Master Plan project will be to update the current Master Plans to account for recent development, system upgrades, and changing system needs. The intent of the master plan will be to identify system capacity issues within the existing collection network as well as provide recommendations associated with growth and development opportunities for the collection system. The main focus of the master plan will be existing collection system capacity issues and growth/development recommendations.
- Services to be Procured: Engineering Consulting Services
- Project Status:



- A Terms of Reference associated with the Strom Sewer Master Plan is being created by the project team to ensure project requirements and deliverables are identified and accounted for. Upon acceptance of the Terms of Reference, the necessary Request for Proposal documents will be prepared and issued to the City's Bids & Tenders website.

2335016 – East Drainage Channel Improvements Phase IV – Channel – Construction

- Project Description:
 - The East Drainage Channel Improvements Phase IV – Channel – Construction project will consist of completing the design review and construction of the channel section between Lake K, scheduled to be completed in early 2023, and the 43 Avenue crossing.
- Services to be Procured: Contractor Services
- Project Status:
 - Bid Document is being prepared in an effort to have it issued to the City's Bids & Tenders website to secure the services of a qualified Prime Contractor in February. Construction is scheduled to be initiated in the fall of 2023.

2335017 – Northwest Drainage Channel Improvements Phase IV – Planning and Design Services

- Project Description:
 - The Northwest Drainage Channel Improvements Phase IV – Planning and Design Services project will consist of completing the necessary project planning and detailed designs associated with rehabilitating the final stages of the Northwest Drainage Channel.
- Services to be Procured: Engineering Consulting Services
- Project Status:
 - A Terms of Reference associated with the project is being created by the project team to ensure project requirements and deliverables are identified and accounted for. Upon acceptance of the Terms of Reference, the necessary Request for Proposal documents will be prepared and issued to the City's Bids & Tenders website.

2342002 – 2024 Water and Sewer Replacement Program – Design Services

- Project Description:
 - Preparation of detailed designs and construction cost estimates for the City of Lloydminster's annual Water and Sewer Replacement Program. The chosen area will be discussed with Operations and other City Staff to evaluate the ideal area for rehabilitation.
- Services to be Procured: Engineering Consulting Services
- Project Status:
 - Project will be initiated in Q2 2023 as data collection will need to be completed in frost, ice, and snow free conditions.

2342004 – Northeast (NE) Effluent Line – Design and Construction Services

- Project Description:
 - The intent of the NE Effluent Line will be to complete the necessary planning, analysis, and design of the effluent line in preparation for securing a Prime Contractor to complete the installation of the line. The effluent line will connect to the new Mechanical Wastewater Treatment Facility and provide connection opportunities for developments seeking treated effluent re-use water.
- Services to be Procured: Engineering Consulting Services, Contractor Services
- Project Status:

- Project will be initiated in Q2 2023 as data collection will need to be completed in frost, ice, and snow free conditions.

2342006 – Central Business District Replacement Program – Phase I – Construction

- Project Description:
 - The intent of the Central Business District Replacement Program – Phase I – Construction project will be to implement the first phase of construction. The limits of the program are along 50 Street between 49 Avenue and 50 Avenue, including the entire intersection of 50 Avenue and 50 Street.
- Services to be Procured: Engineering Consulting Services, Contractor Services
- Project Status:
 - Bid Document is being prepared in an effort to have it issued to the City's Bids & Tenders website to secure the services of a qualified Prime Contractor in February. Construction is scheduled to be initiated as early as May 15, 2023.

2343001 – Landfill Cell 1.4 – Design Services

- Project Description:
 - The intent of the Landfill Cell 1.4 – Design Services project will be to complete the necessary data collection, analysis, and design associated with the development of Cell 1.4 in preparation for securing the services of an experienced Prime Contractor in a future Capital Budget year.
- Services to be Procured: Engineering Consulting Services
- Project Status:
 - A Terms of Reference associated with the project is being created by the project team to ensure project requirements and deliverables are identified and accounted for. Upon acceptance of the Terms of Reference, the necessary Request for Proposal documents will be prepared and issued to the City's Bids & Tenders website.

3. Project Location Map

2023 Capital Projects:

**** ATTACHED AS SEPARATE DOCUMENT(S) ****