



# 2024 CITY OF SASKATOON CONSTRUCTION FORECAST

December 14, 2023



# Presentations

## 2024 Construction Forecast

- Roadways Preservation – Andy McMeekin
- Water and Sewer – Sohrab Khan
- Land Development – Josh Quintal
- Saskatoon Water – John Lacny and Brodie Thompson
- SCM Update – Greta Kort and Jill Schneider
- BRT Project – Rob Dudiak
- Landfill Projects – Scott Theede
- Municipal Engineering Services – Lowell Reinhart
- Contractor Environmental Guidelines – Wesley Wizniuk
- Parks – Michael Beresnack



# 2024 PROJECT FORECAST

Construction and Design





# ROADWAYS PRESERVATION

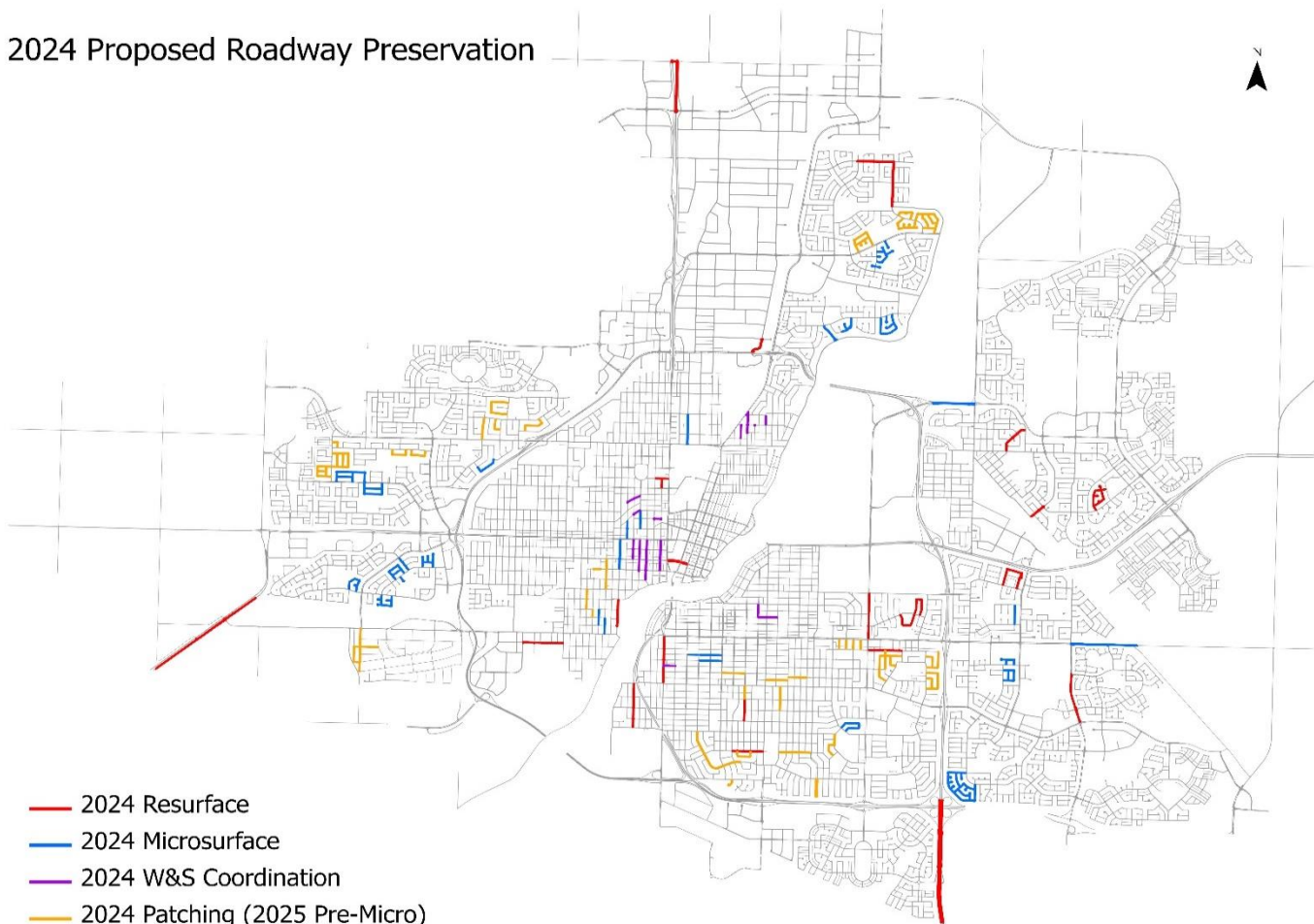
Andy McMeekin  
Senior Project Management Engineer



# Roadway and Sidewalk Preservation

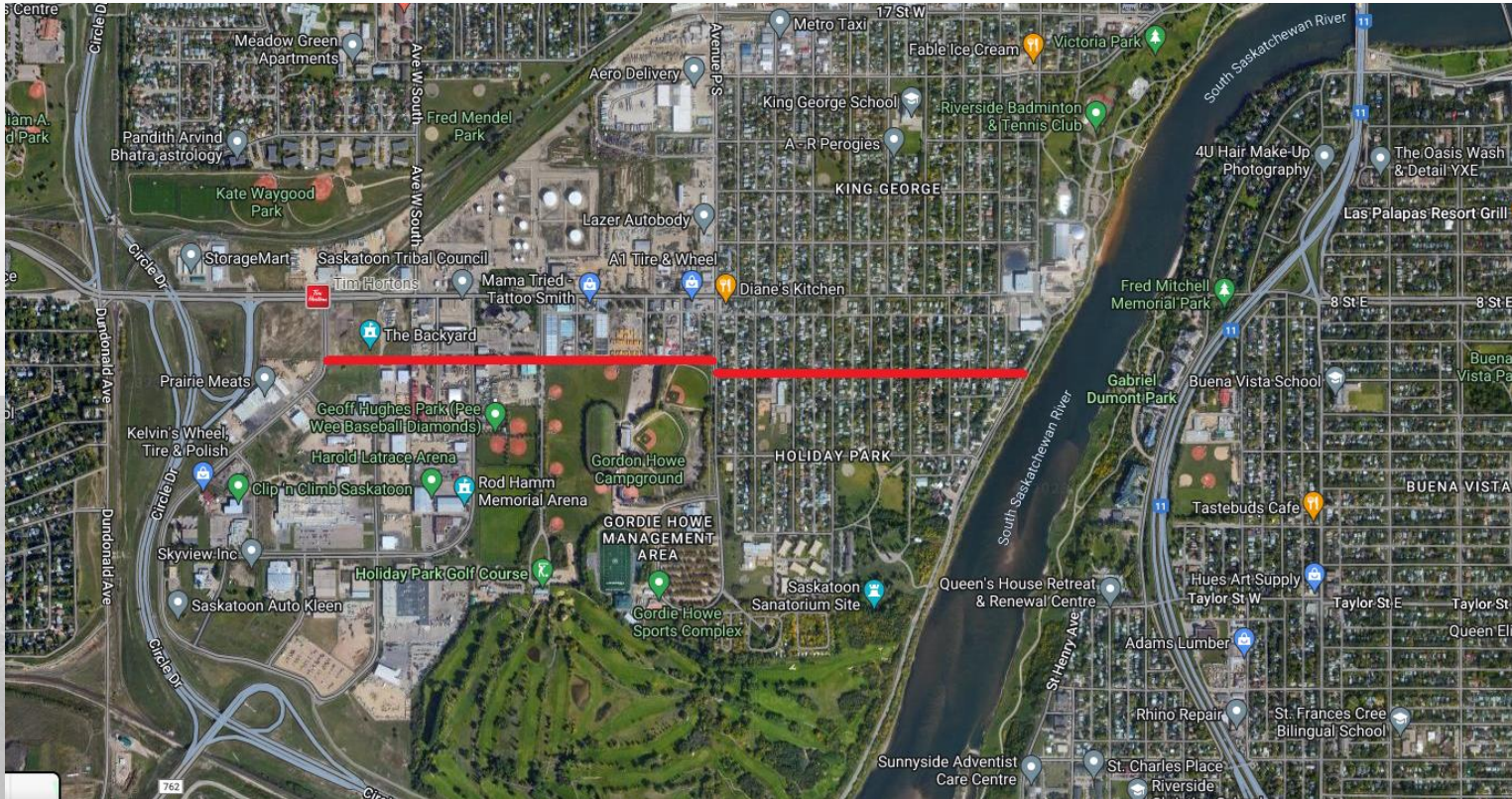
Contract Type	Resurfacing and Concrete	Pre-micro Patching	Microsurfacing	Concrete Preservation (concrete only)
Number of contracts	2	2	2	1-3
Est. roadway treatment area/contract (m2)	111,000	13,000	102,500	NA
Estimated asphalt tonnage (tonne)	15,984	1,872	NA	NA
Est. sidewalk panel replacement area (m2)	5,000	NA	NA	**2,000
Est. sidewalk curb replacement length (linm)	2,400	NA	NA	**1,000
Est. Tender advertise date	mid February 2024	mid January 2024	mid January 2024	Early February 2024
**value may change				

# 2024 Proposed Roadway Preservation



- 2024 Resurface
- 2024 Microsurface
- 2024 W&S Coordination
- 2024 Patching (2025 Pre-Micro)

# Dudley Street Corridor Upgrades



# SIDEWALK INFILL LOCATIONS 2024

1

PRINCE OF WALES AVENUE -  
LANE EAST OF EMPIRE AVENUE  
TO SPADINA CRESCENT

2

PRINCE OF WALES AVENUE -  
LANE EAST OF EMPIRE AVENUE  
TO SPADINA CRESCENT

3

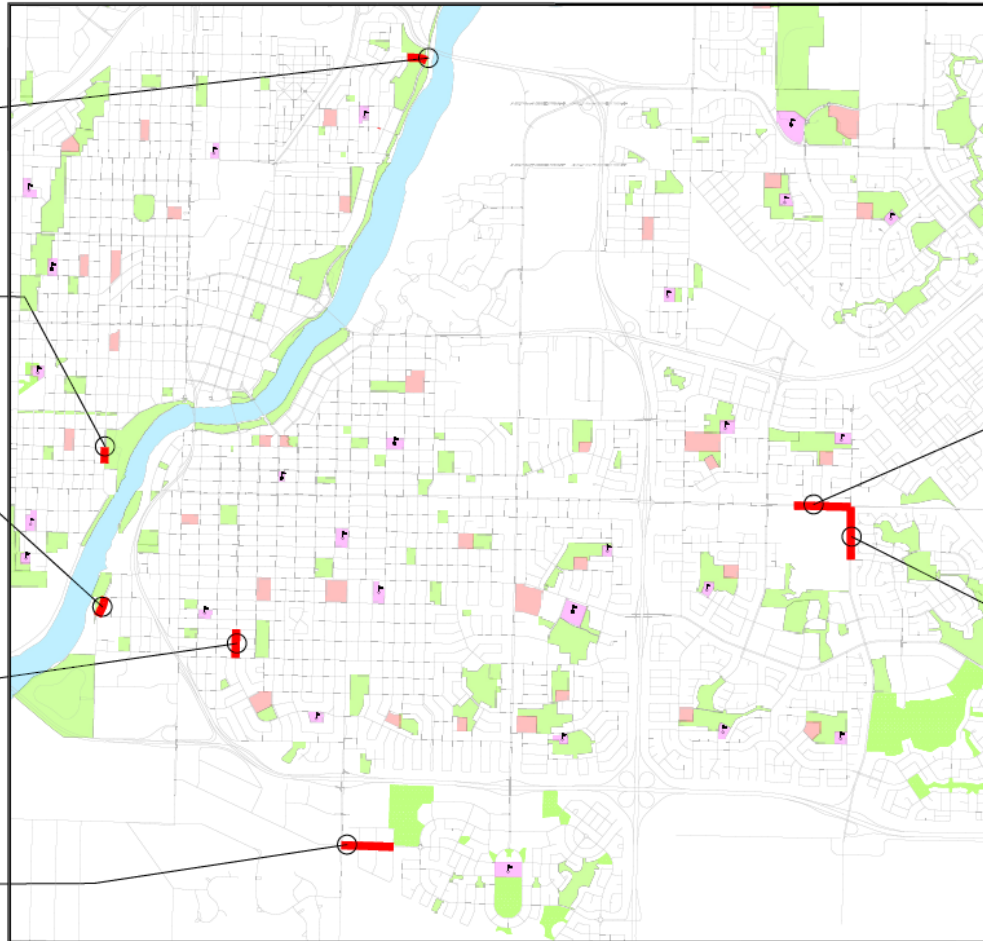
ST. HENRY AVENUE -  
HILLARD STREET  
TO ISABELLA  
STREET (east side)

4


VICTORIA AVENUE -  
RUTH STREET  
TO ELM STREET


5


STONE BRIDGE BOULEVARD -  
CLARENCE AVE TO WELLMAN  
CRES EAST LEG (south side)



## LEGEND

 SCHOOLS

 PARKS / GREEN  
SPACE

 2024 SIDEWALK  
INFILL LOCATIONS

6

8th STREET E - BOYCHUK  
DRIVE TO GOLF COURSE  
ENTRANCE (south side)

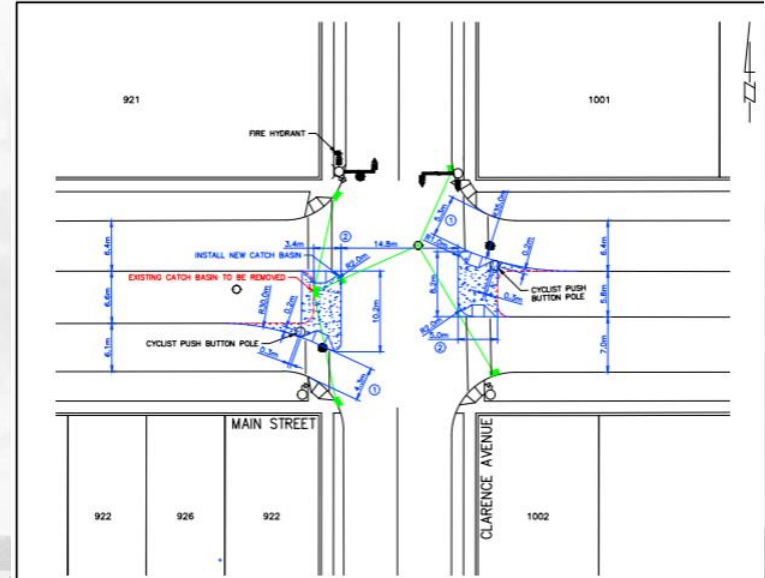
7

BOYCHUK DRIVE - 8th  
STREET TO BRIARWOOD  
ROAD (west side)

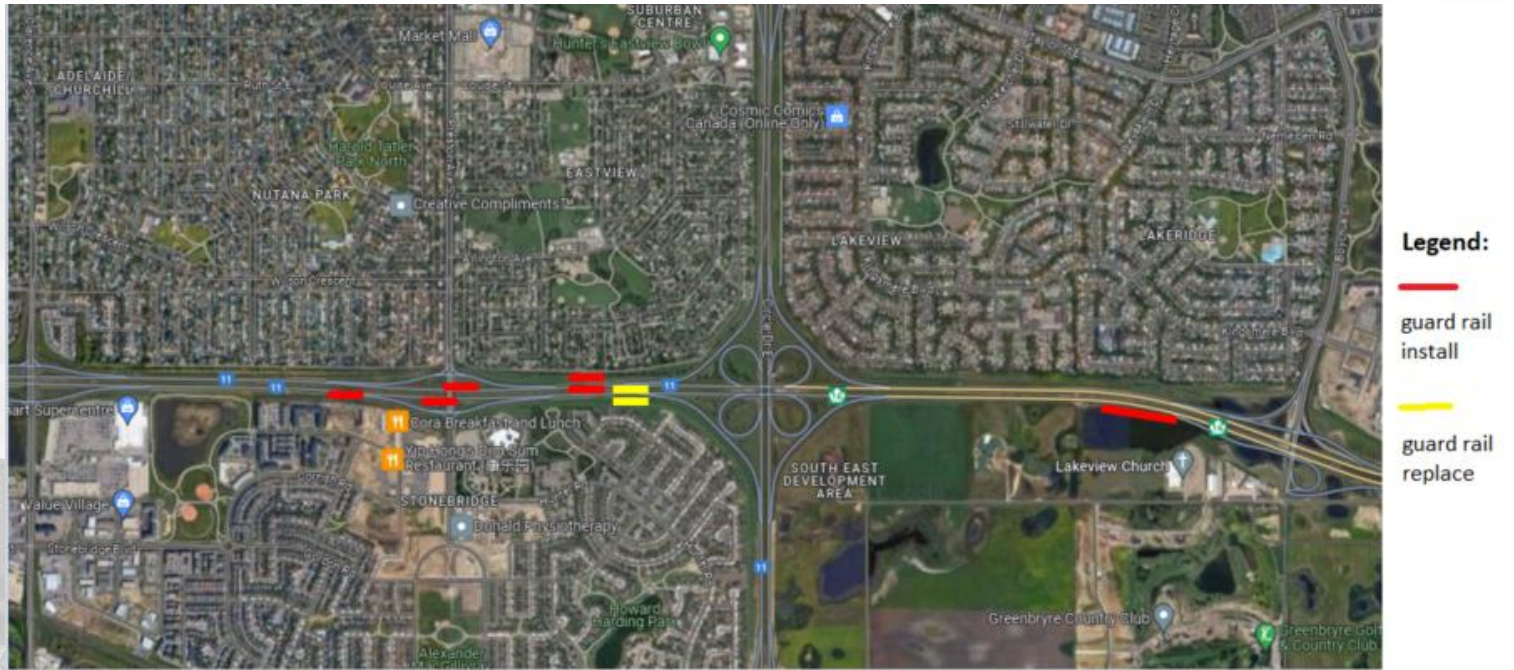


# Channelization and Accessibility Improvements

- Median Islands/Curb Extensions
- Walkway infrastructure improvements
- Pedestrian ramp installation
- Drainage improvements
- Parking pay station concrete base repairs



# Roadside Safety Improvements



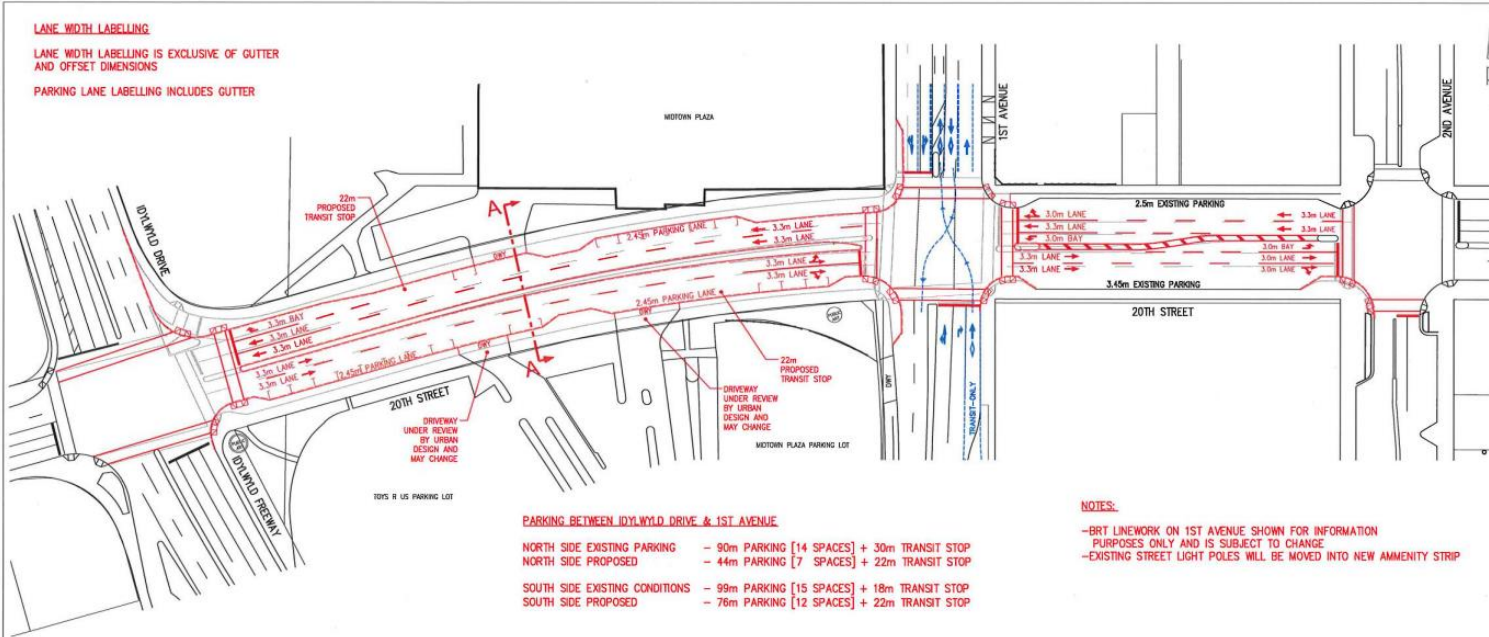
- Highway 16 between Highway 11 junction and Boychuk Drive
- Circle Drive between Preston Avenue and Clarence Avenue (both sides)
- Circle Drive between Preston Avenue and Highway 11 / 16 Interchange (both sides)

# 20<sup>th</sup> Street Upgrades

## LANE WIDTH LABELLING:

LANE WIDTH LABELLING IS EXCLUSIVE OF GUTTER AND OFFSET DIMENSIONS

PARKING LANE LABELLING INCLUDES GUTTER



## PARKING BETWEEN IDYLWYLD DRIVE & 1ST AVENUE

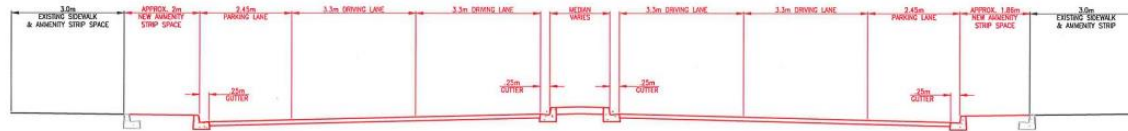
- NORTH SIDE EXISTING PARKING - 90m PARKING [14 SPACES] + 30m TRANSIT STOP
- NORTH SIDE PROPOSED - 44m PARKING [7 SPACES] + 22m TRANSIT STOP
- SOUTH SIDE EXISTING CONDITIONS - 99m PARKING [15 SPACES] + 18m TRANSIT STOP
- SOUTH SIDE PROPOSED - 76m PARKING [12 SPACES] + 22m TRANSIT STOP

## NOTES:

- BRT LINWORK ON 1ST AVENUE SHOWN FOR INFORMATION PURPOSES ONLY AND IS SUBJECT TO CHANGE
- EXISTING STREET LIGHT POLES WILL BE MOVED INTO NEW AMMENITY STRIP

## LEGEND

- EXISTING CONDITIONS
- PROPOSED NEW CURB
- BUS RAPID TRANSIT [FUTURE]
- TO BE REMOVED



CROSS SECTION A-A



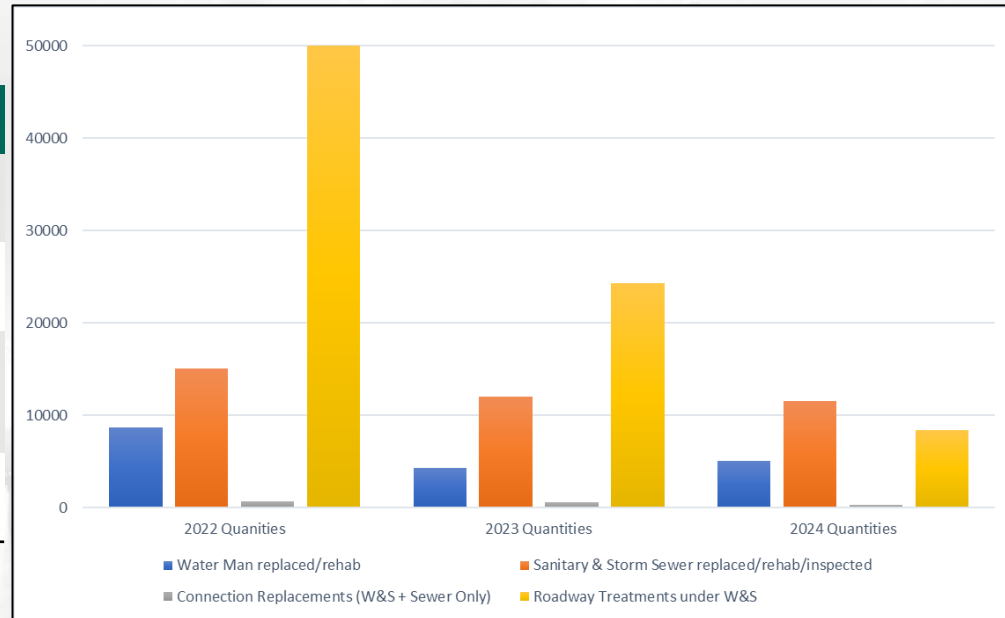
# WATER AND SEWER

Sohrab Khan  
Senior Project Management Engineer



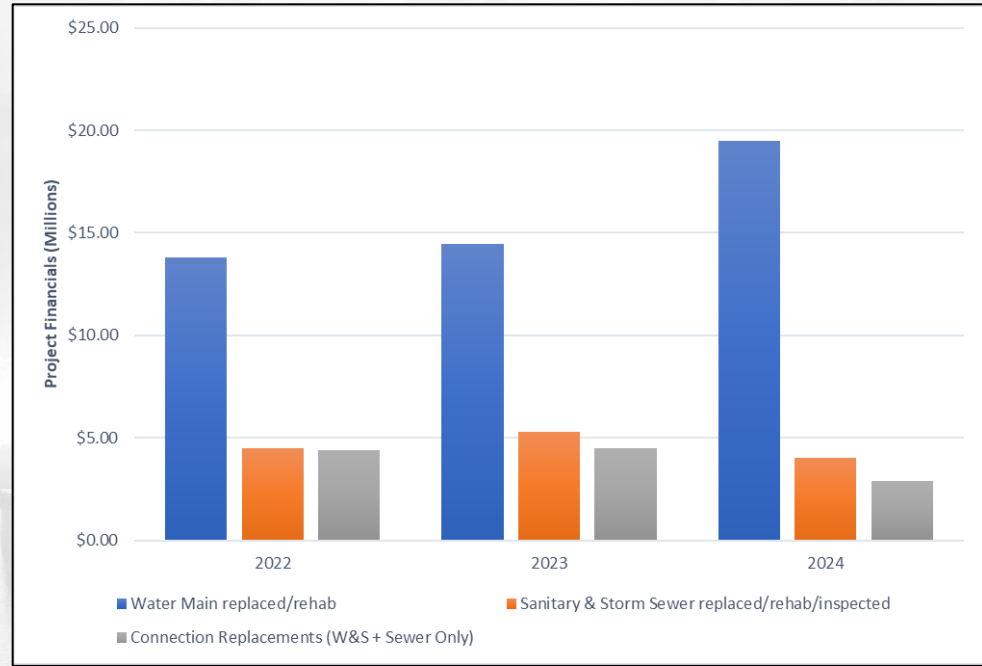
# Water and Sewer Project Quantities

	2022 Quantities	2023 Quantities	2024 Quantities
Water Main replaced/rehab	8,690m	4,265m	5,080m
Sanitary and Storm Sewer replaced/rehab/inspected	15,000m	12,000m	11,500m
Connection Replacements (W&S + Sewer Only)	627 each	579 each	325 each
Roadway Treatments under W&S	50,000 l-m	24,300 l-m	8,400 l-m



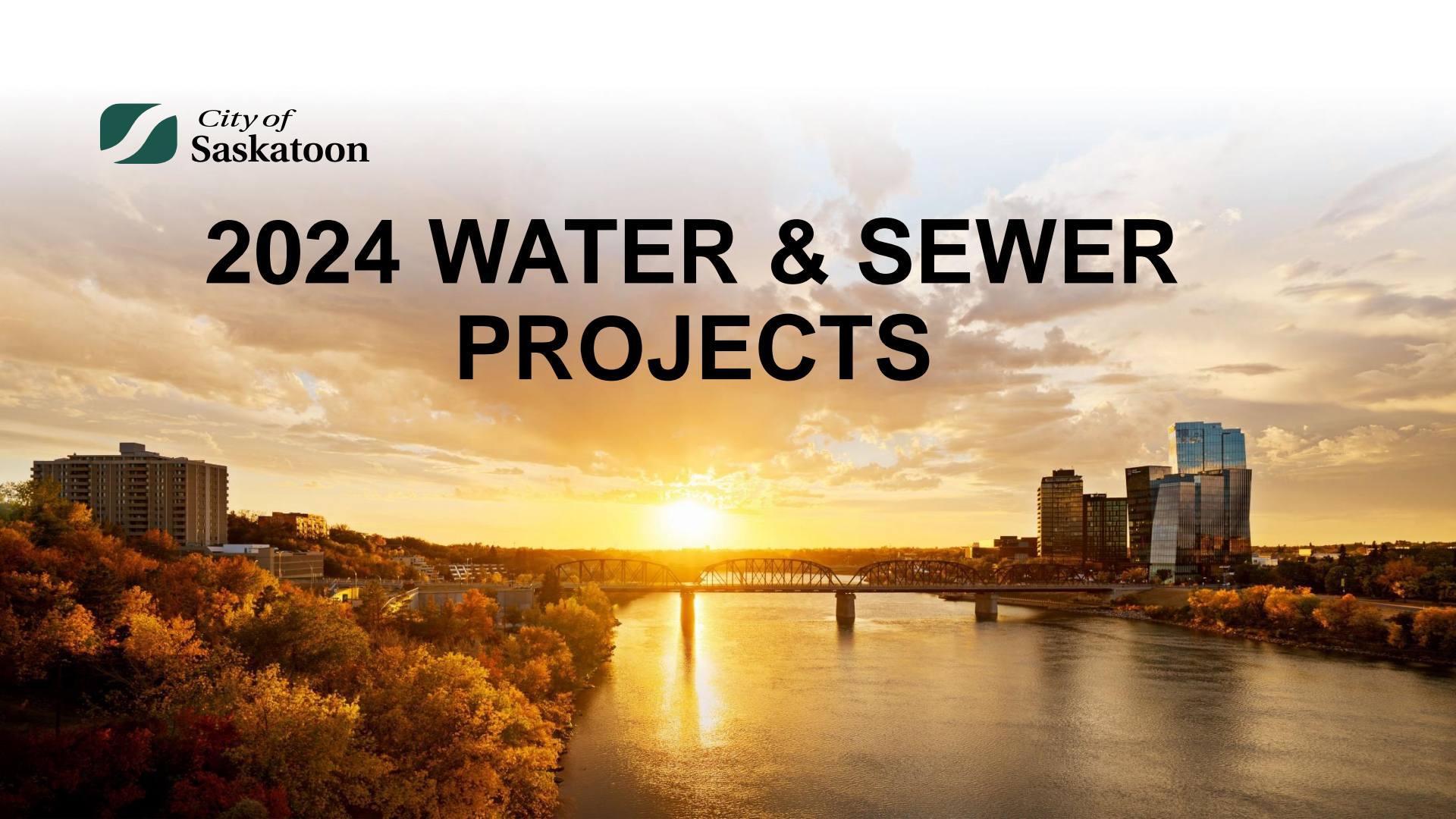
# Water and Sewer Project Financials

	2022 Budget	2023 Budget	2024 Budget
Water Main replaced/rehab	\$ 13.80 M	\$ 14.44 M	\$ 19.50 M
Sanitary & Storm Sewer replaced/rehab/inspected	\$ 4.50 M	\$ 5.30 M	\$ 4.00 M
Connection Replacements (W&S + Sewer Only)	\$ 4.40 M	\$ 4.50 M	\$ 2.90 M
<b>Total</b>	<b>\$ 22.70 M</b>	<b>\$ 24.24 M</b>	<b>\$ 26.40 M</b>





# 2024 WATER & SEWER PROJECTS



# Water Main CIPP Lining

## Highlights:

- 1800m water main lining of various diameters
- 15 Service Connections replacement

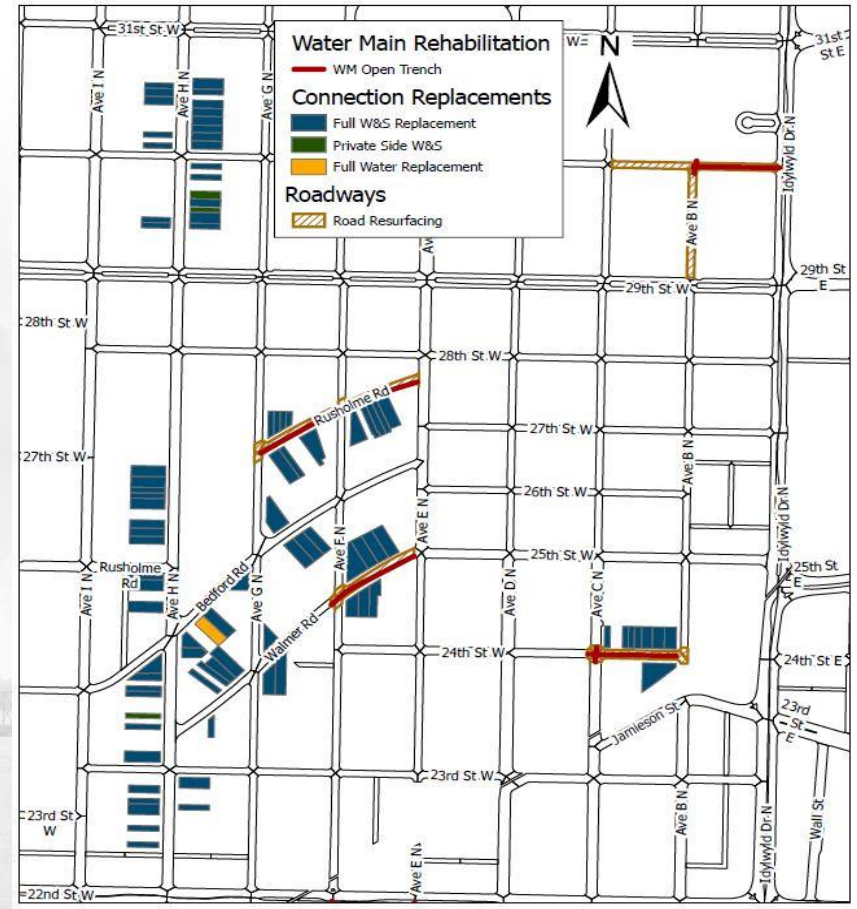




# Caswell Hill Water Main Preservation

## Highlights:

- Upsizing 600m of water main
- Replace 90 service connections
- Pave 1000 lane meters of road restoration/ treatment



# 11th St Water Main Preservation

## Highlights:

- 430m watermain replacement
- Road restoration



# Riversdale Capacity Upgrades

## Highlights:

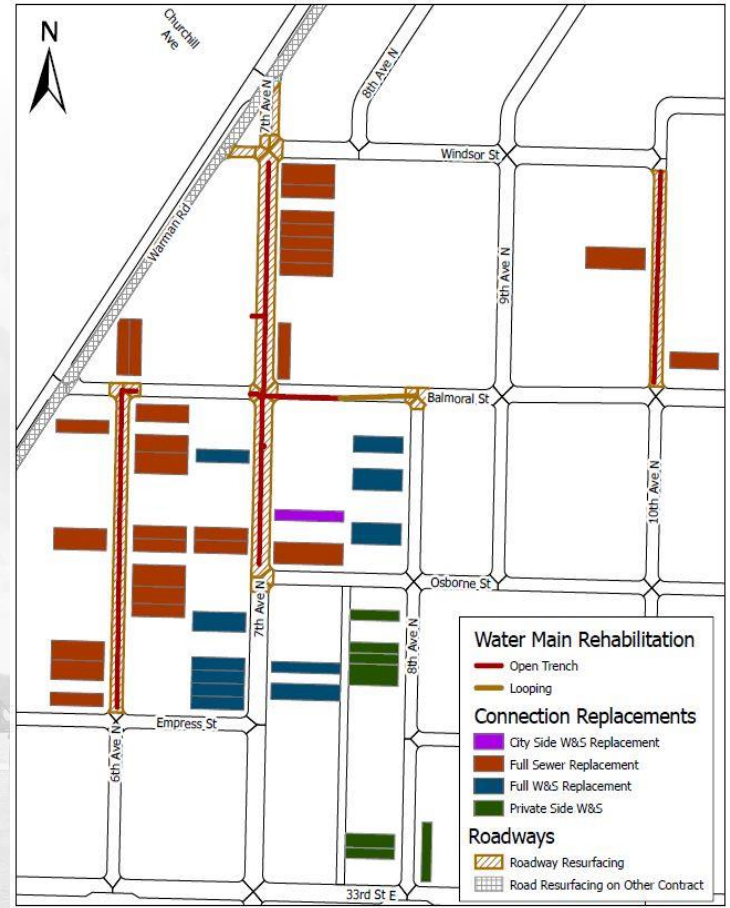
- 850m water main replacement
- 70 service connections
- 1.9 lane km Paving



# North Park Water Rehabilitation Overview

## Highlights:

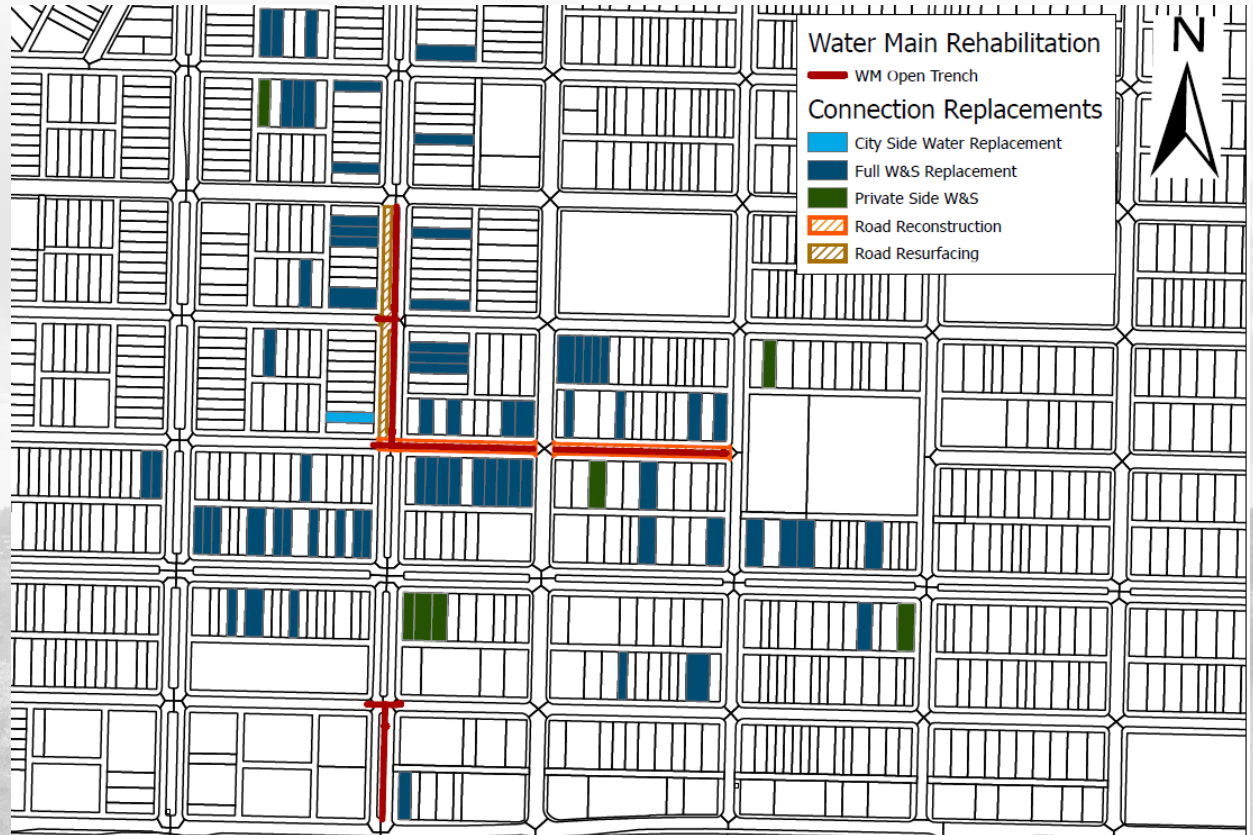
- 815m water main replacement
- 45 service connection replacements
- 2.3 lane km Paving



# Albert Ave and 10th St Water Main Preservation

## Highlights:

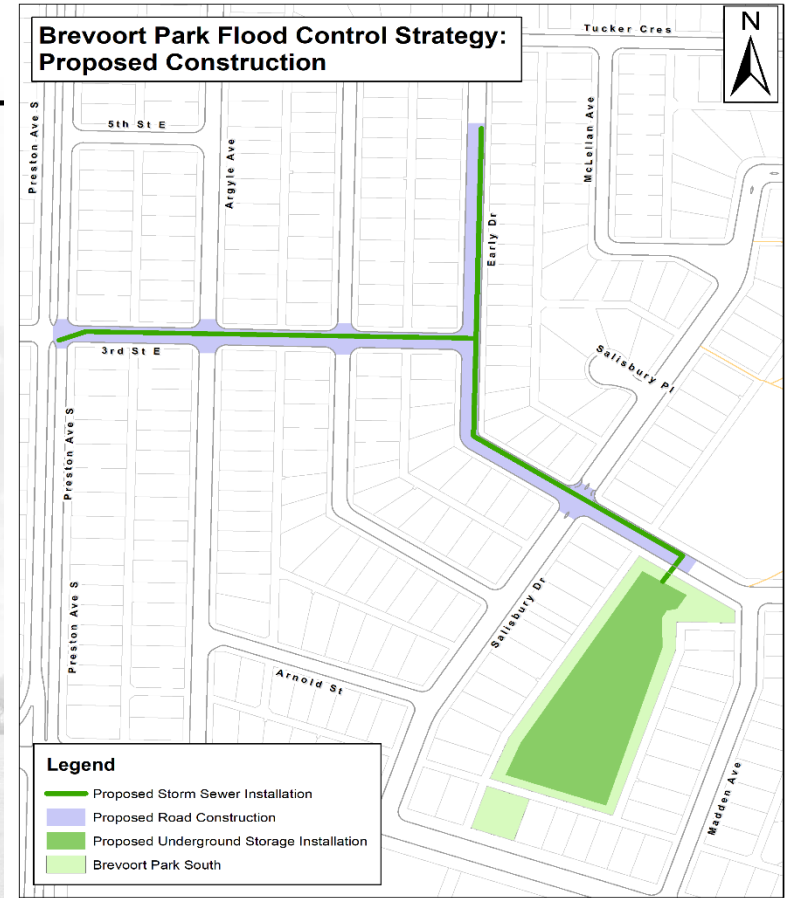
- 650m water main replacement
- 80 Service Connections
- 1 lane km Paving



# Brevoort Park South – Storm Water Storage Project Overview

## Highlights:

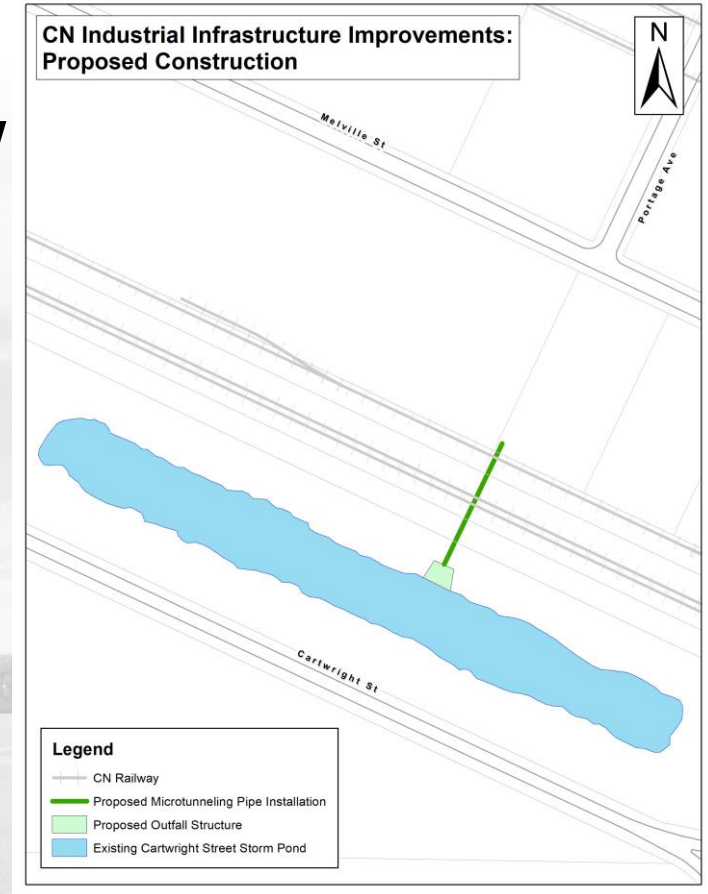
- Underground water storage of approx. 9400 cubic meters in concrete chambers
- Approx. 410 m of 1500mm class-III RCP and approx. 285m of 450mm ultra-Rib PVC storm pipe installation
- 3.0 lane km roadway treatments



# CN Industrial Micro-Tunnelling Project Overview

## Highlights:

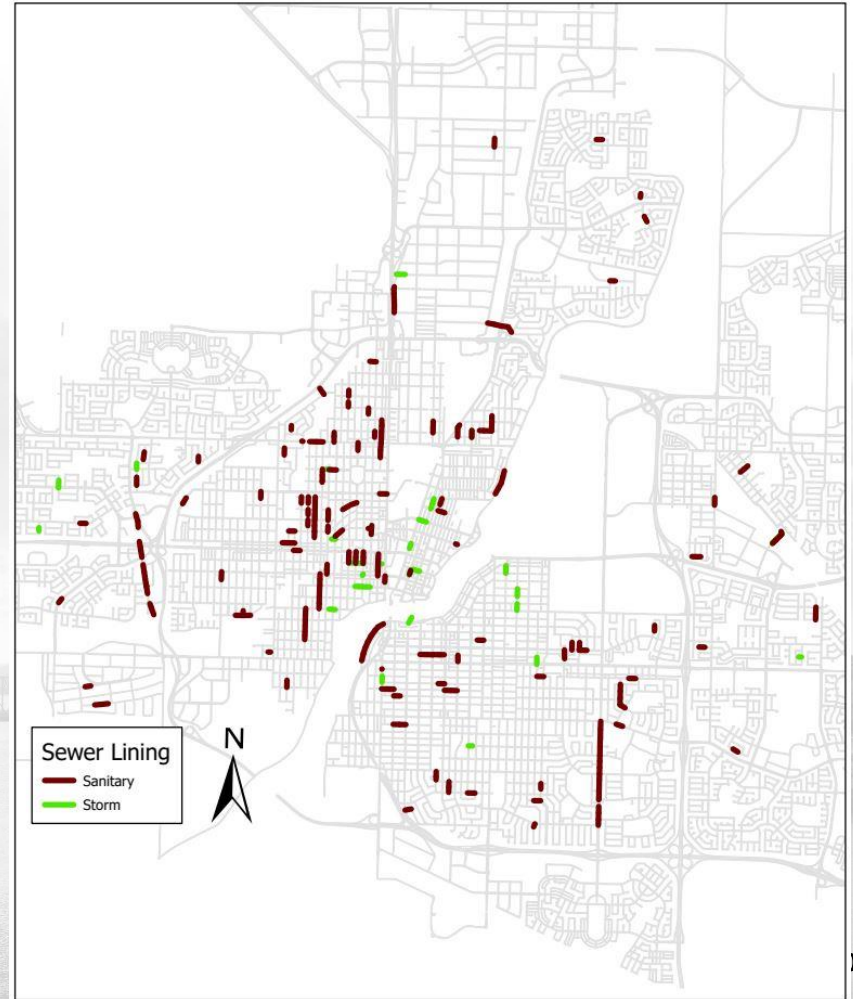
- Approx. 90m of 1050mm Storm main installation in 1500mm steel casing
- Installation of T-riser manhole



# Sewer Main CIPP Lining

## Highlights:

- 156 Storm and Sanitary sewer locations totaling 13,500m of various diameters ranging from 150mm to 600mm will be lined.







# LAND DEVELOPMENT

Josh Quintal  
Senior Project Management Engineer



# 2024 Land Development Projects

## Water & Sewer

- HVBP Storm Pond & Trunks
- Acadia Dr. PWM
- Blairmore PWM Phase 1
- Cartwright St. Sanitary Trunk

## Water, Sewer, and Roadways

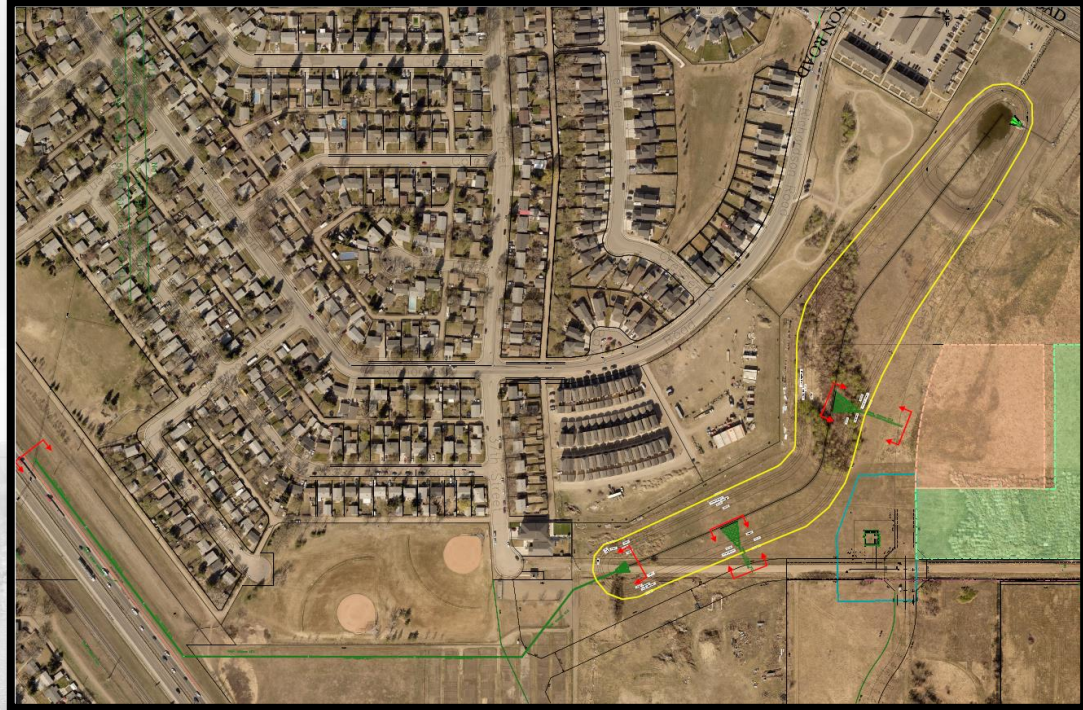
- Aspen Ridge D2
- Marquis 11A3

## Roadways

- 8<sup>th</sup> St. Arterial – EB Lanes
- Brighton D2
- Kensington A3B

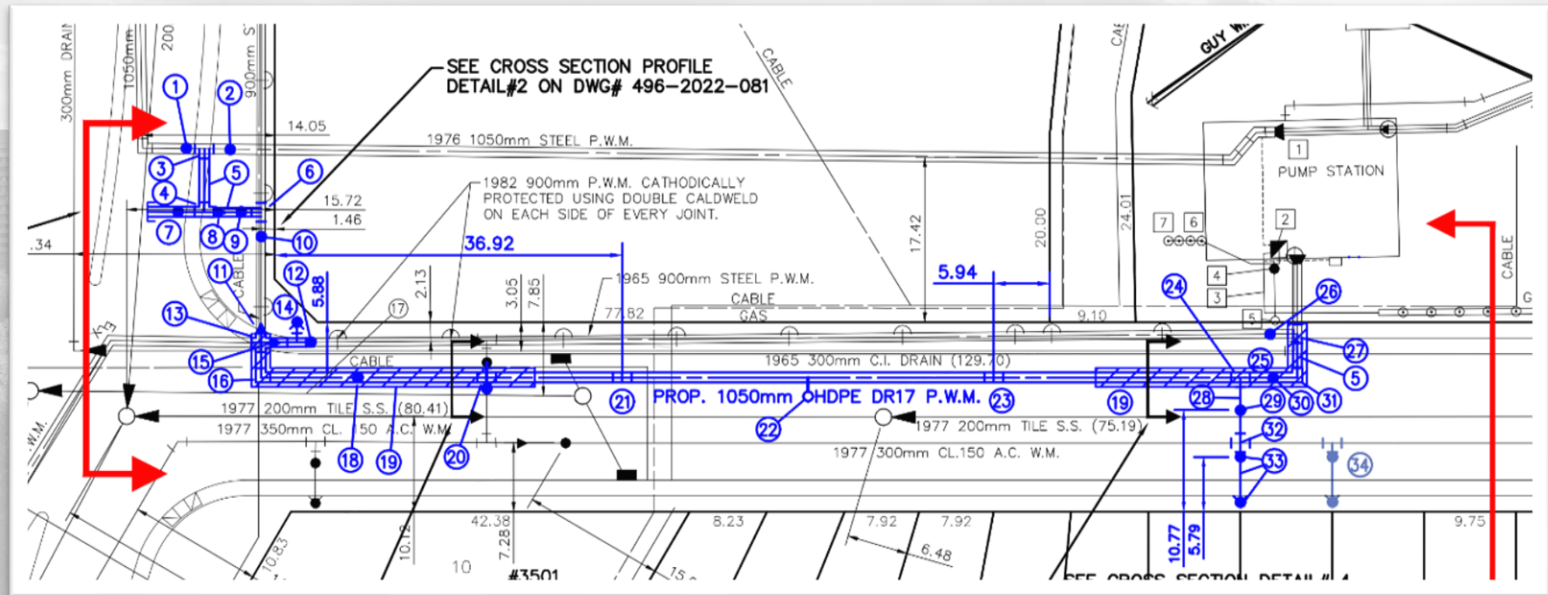
# Hampton Village Business Park (HVBP) Storm Pond and Trunks

- 190,000m<sup>3</sup> Excavation
- 650m 1050mm RCP or PVC
- 180m 1200mm RCP
- High Score RFQ
- Post – January 2024
- Start – March 2024
- Complete – Fall 2024



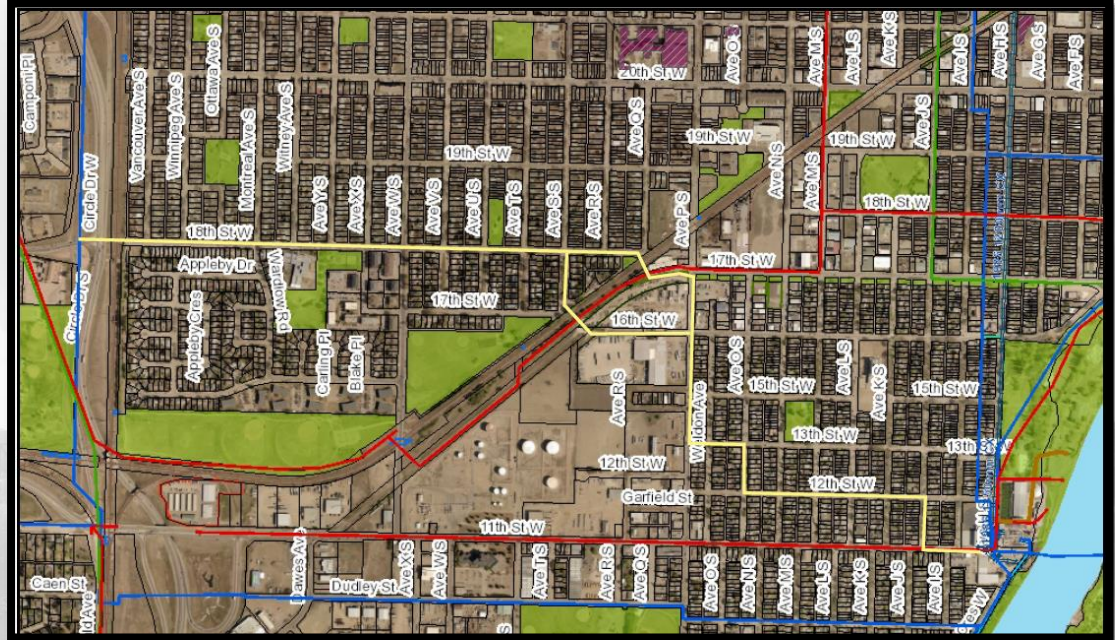
# Acadia Dr. PWM

- ~130m 1050mm PWM
- High Score RFQ
- Post - January 2024
- Start – Spring 2024
- Complete – Fall 2024



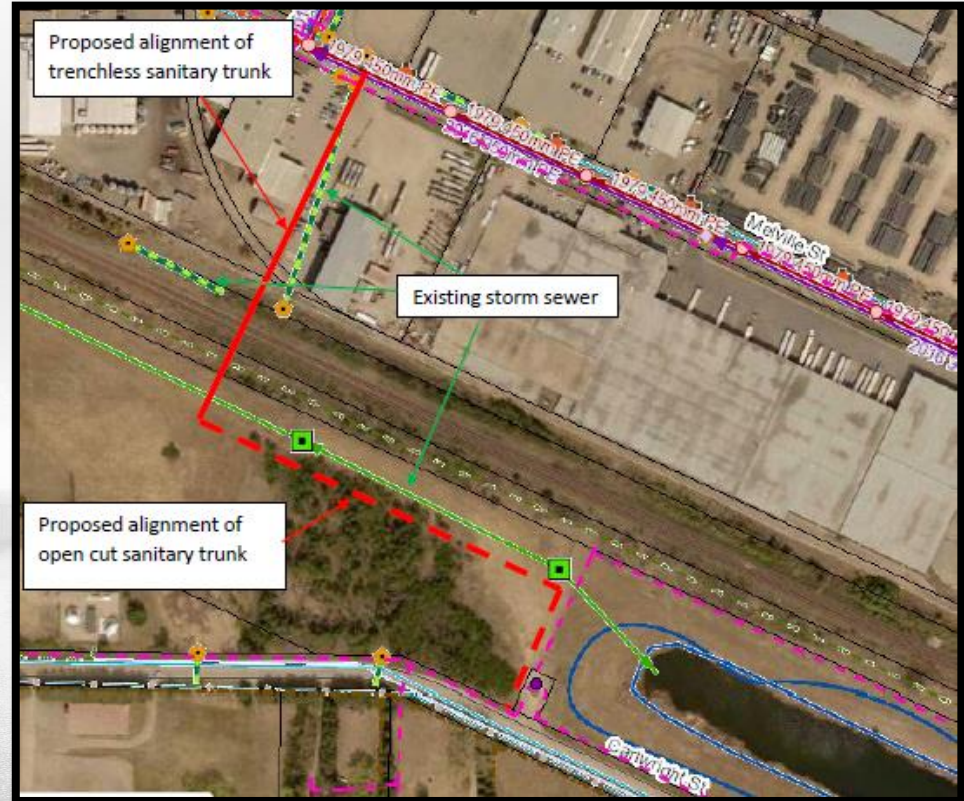
# Blairmore PWM Phase 1

- 3.3km 1050mm PWM
- High Score RFQ
- Post - Late 2024
- Start – Spring 2025
- Complete – Fall 2026



# Cartwright St. Sanitary Trunk

- 375mm SS Trunk
  - 220m trenchless
  - 320m open cut
- High Score RFQ
- Post – Late 2024
- Start – Spring 2025
- Complete – Fall 2025

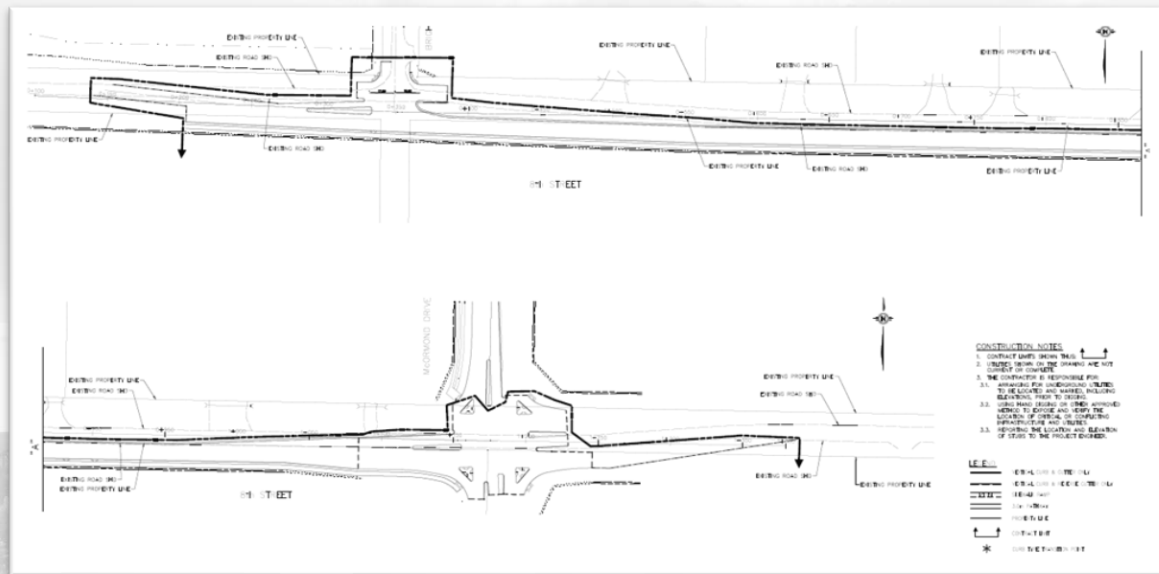


# Roadways RFSQ

- Request for Supplier Qualifications (RFSQ)
- Pre-qualify Contractors for the following Roadways projects:
  - 8<sup>th</sup> St. Arterial Roadway – Eastbound lanes
  - Brighton D2 Roadways
  - Kensington A3B Roadways
- Post – December 2023
- Close – January 2024
- Those that pre-qualify will be sent an Invitation to Tender (ITT) for each individual project

# 8<sup>th</sup> St. Arterial Roadway - EB lanes

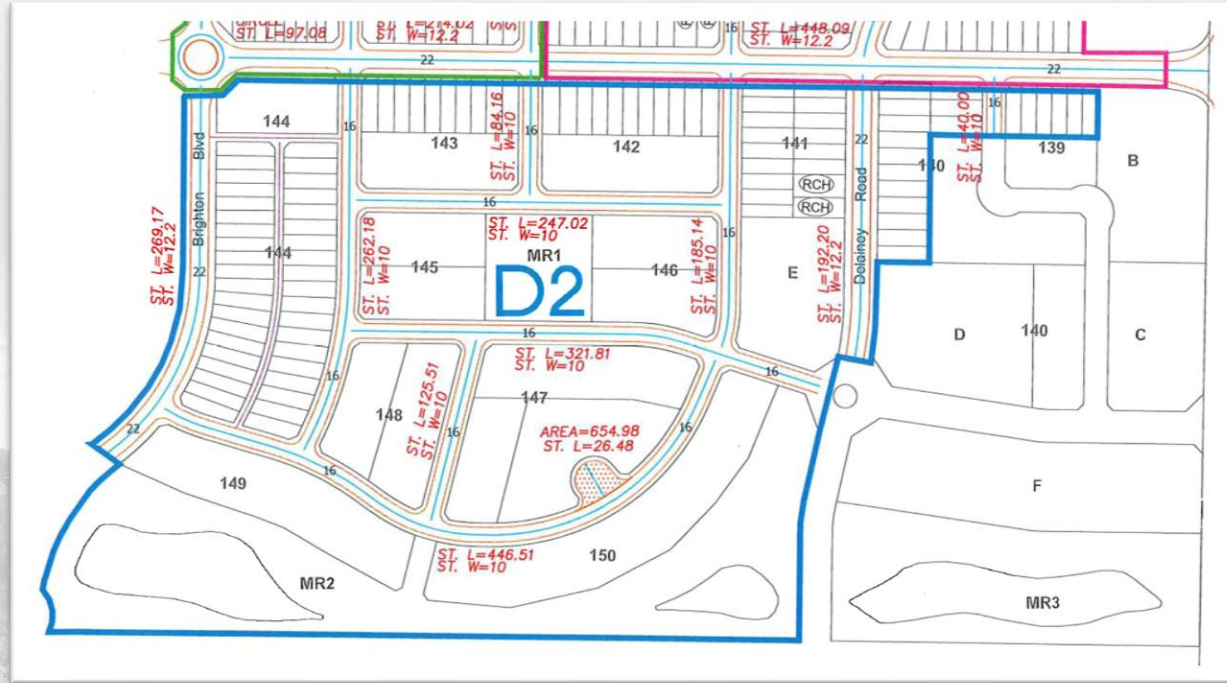
- 1.0km Arterial Roadway
- Brighton Blvd intersection
- McOrmond Dr. intersection
- ITT
- Post – February 2024
- Start – Spring 2024
- Complete – Fall 2024





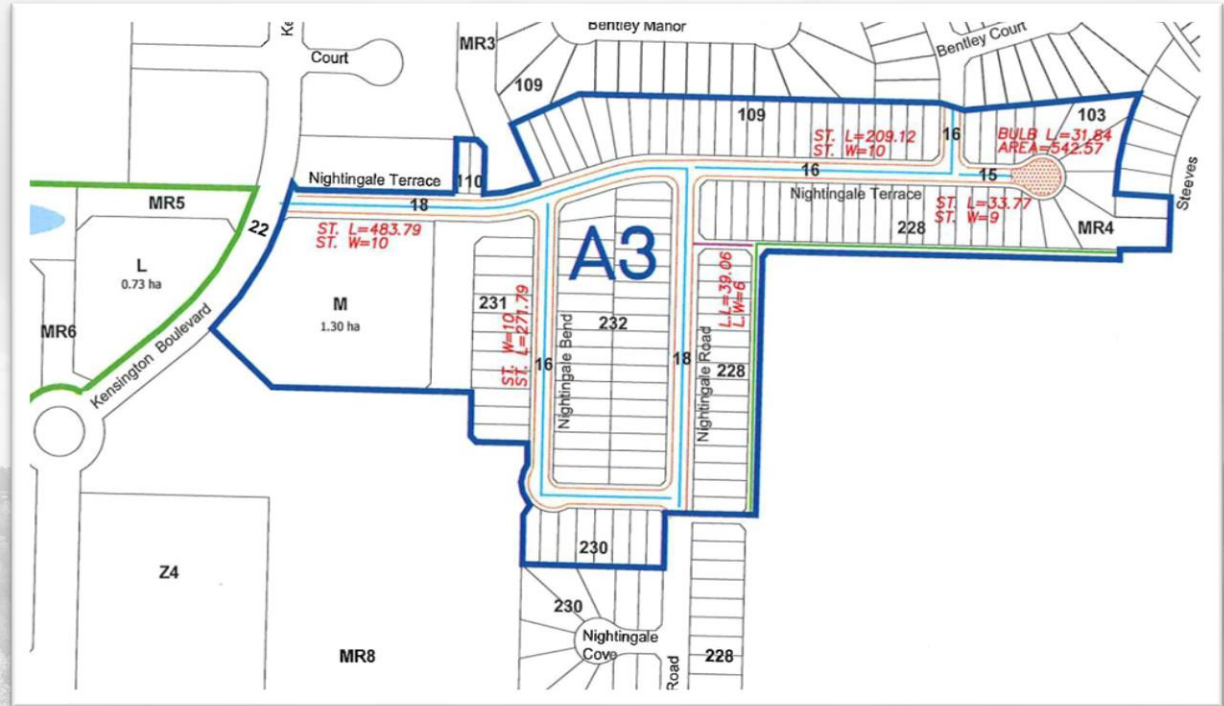
# Brighton D2 Roadways

- 400m Collector Road
- 1.5km Local Roads
- 200m Lane
- ITT
- Post – March 2024
- Start – Spring 2024
- Complete – Fall 2024



# Kensington A3B Roadways

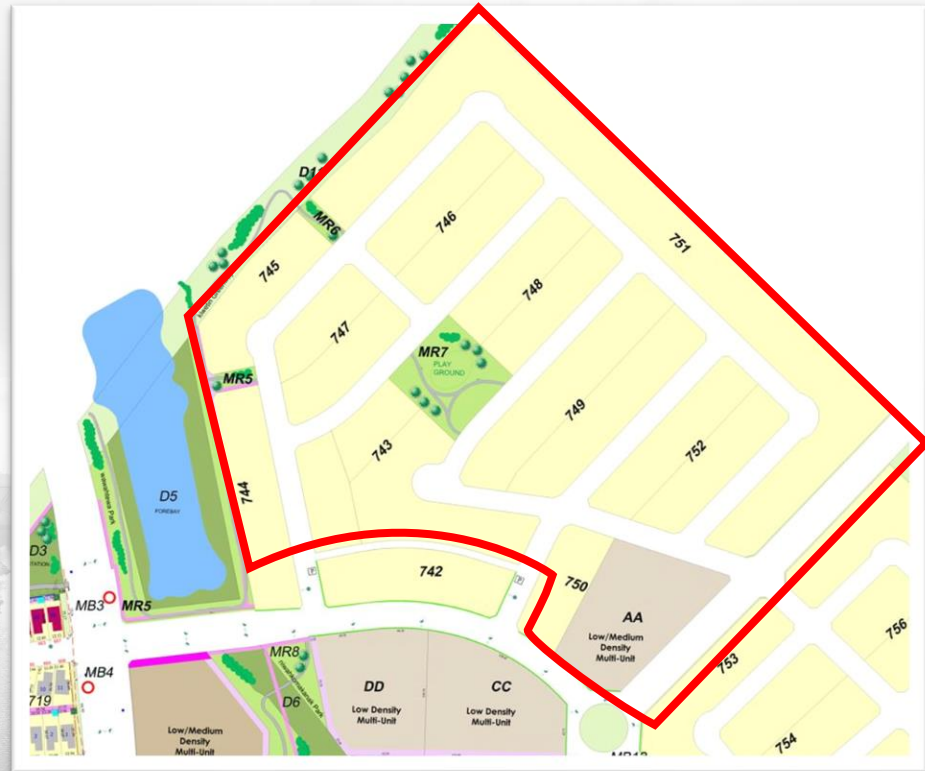
- 1.0km Local Roads
- 40m Lane
- ITT
- Post – February 2024
- Start – Spring 2024
- Complete – Fall 2024



# Aspen Ridge D2 W&S/Roadway

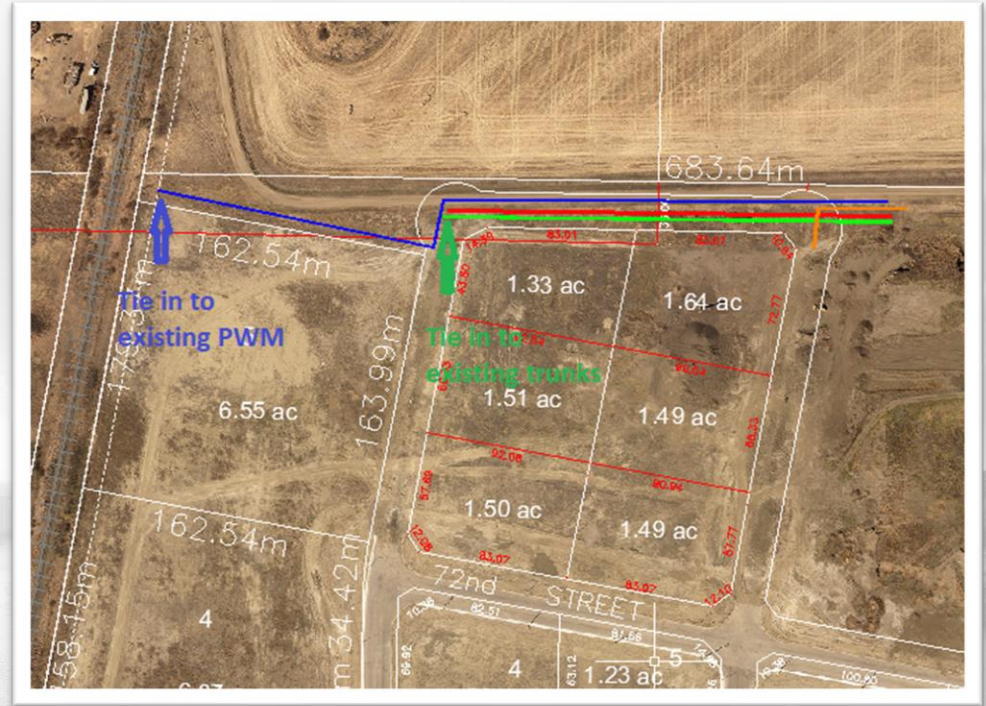
- Water & Sewer
  - 2.4km 200-450mm SS
  - 2.3km 150-200mm WM
  - 1.6km 300-900mm StS
  - 250 service connections
- Roadways
  - 300m Collector Road
  - 2.0km Local Roads
  - 200m Lane
- Negotiated RFP
- Post – January 2024
- Negotiate – April 2024
- Start – Spring 2024
- Complete – Fall 2024\*

\*Project may be phased if necessary



# Marquis 11A3 W&S/Roadway

- Water & Sewer
  - 220m SS, WM, StS
  - 420m 600mm PWM
  - 100m 100mm Forcemain
- Roadways
  - 600m Local Road
- High Score RFQ
- Post – April 2024
- Start – Spring 2024
- Complete – Fall 2024





# SASKATOON WATER

John Lacny  
Engineering Manager, Saskatoon Water



# Saskatoon Water – Water Treatment

## Filter Underdrains

- Demolition of existing concrete false floor underdrains.
- Repair of concrete where underdrain meets cell wall.
- Installation of a paint on filter cell lining
- Installation of underdrain lateral system.

## Key Details

- Estimated Value: \$7,000,000+
- Construction Bid: Q1 2024



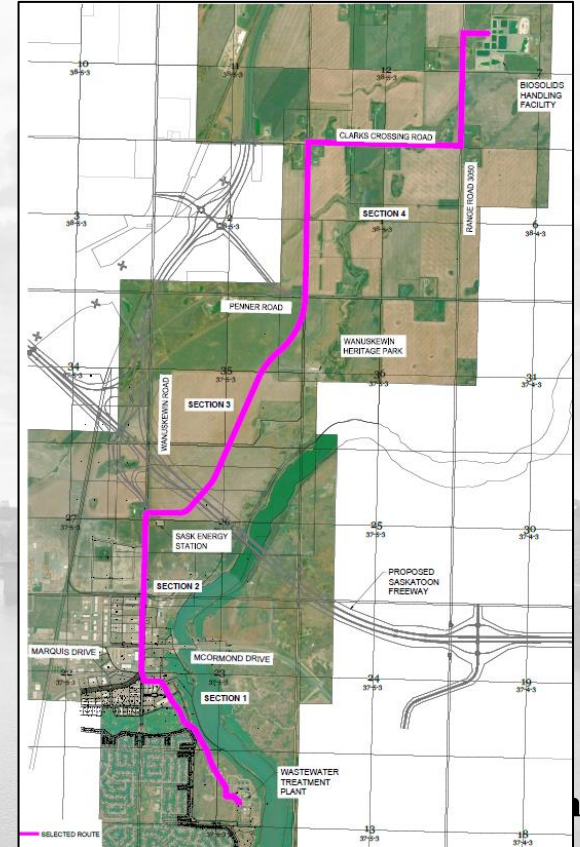
# Saskatoon Water – Wastewater Treatment

## Biosolids Forcemain Installation

- Construction of three 12km long forcemain pipes that convey biosolids between the WWTP and the Biosolids Handling Facility

## Key Details

- Estimated Value: \$20,000,000+
- Contractor Prequalification: Q4 2024
- Construction Bid: Q1 2025



# Saskatoon Water – Wastewater Treatment

## Digester Tank C Refurbishment

- Refurbishment of tank interior concrete and gas proofing coating
- Replacement of tank piping and equipment
- Replacement of the exterior gas piping, valves, and pressure relief hatches
- Installation of a new exterior concrete roof surface

## Key Details

- Estimated Value: \$5,000,000+
- Contractor Prequalification: Q4 2023
- Construction Bid: Q1 2024





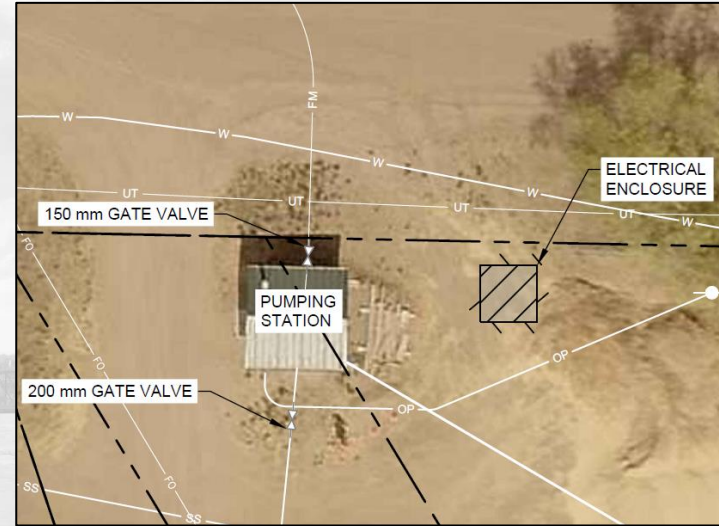
# Saskatoon Water – Wastewater Treatment

## Landfill Lift Station Electrical Upgrades

- Construction of two new electrical buildings for the South and Heavy Grit Lift Stations
- Replacement of the control systems for each station
- HVAC upgrades at each lift station

## Key Details

- Estimated Value: \$800,000+
- Construction Bid: Q1 2024



# Saskatoon Water – Wastewater Treatment

## 58th St Lift Station Refurbishment

- New process pumps, piping, and valves
- New electrical MCCs and VFDs
- New PLC control system
- Repairs to architectural finishes

## Key Details

- Estimated Value: \$1,000,000+
- Construction Bid: Q4 2024



# Saskatoon Water – Wastewater Treatment

## Plant Mechanical Upgrades

- Replacement and upgrades to variety of equipment across the WWTP such as piping, HVAC, pumps, and other mechanical sub-systems

## Key Details

- Estimated Value: \$1,000,000+
- Construction Bid: Q4 2024



# SASKATOON WATER

Brodie Thompson  
Special Projects Manager, Saskatoon Water



# Saskatoon Water – WTP Capital Program



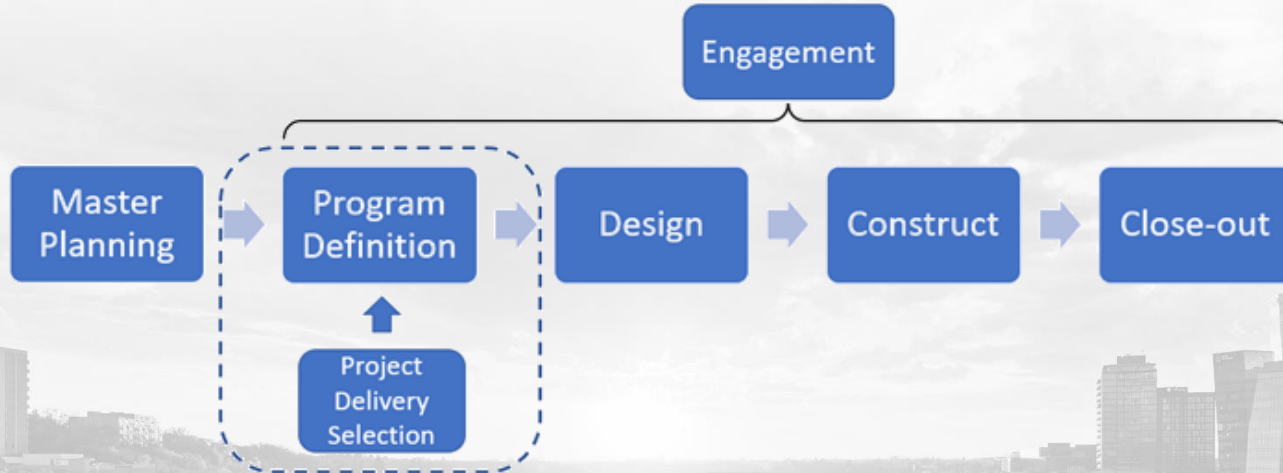
**RELIABILITY**



**EXPANSION**



# Saskatoon Water – WTP Capital Program



**Program  
Definition  
Phase**

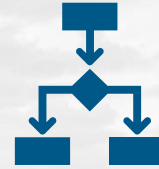


# Saskatoon Water – WTP Capital Program



# Saskatoon Water – WTP Capital Program

**Project Delivery Planning**



**Request for Information**







# SCM UPDATES

Jill Schneider, Manager, Procurement

Greta Kort, Manager SCM Governance & Optimization



# Introduction

- Site Visits and Third-Party Confidentiality (Jill)
- Anticompetitive Activity: Collusion, Bid-rigging and Price-fixing (Greta)

# Helpful Bidding Tips

- Only electronic/digital verifiable bonds will be deemed compliant.
- Give yourself time to review all submission requirements and then double check your submission.



Review thoroughly all RFx documents for any competition you may be interested in submitting a response.



Ask questions during a competition, ensuring that they are submitted prior to the deadline for questions using Biddingo



Follow all submission instructions.

# Site Visits



The City on occasion will have site meetings as part of the RFX competition the majority of those meetings are **optional** site meetings.



Bidders/respondents are encouraged to attend a site meeting in order to assess the scope and nature of the work.



Site Meetings enable bidders to investigate site conditions that may affect the performance of the work. This allows for site conditions to be incorporated into the submitted prices.

# Site Visits

Attendees at site meetings will be asked to sign in.

Attendance lists are for City of Saskatoon information only, they are never shared amongst the attendees or potential bidders.

To protect third party confidentiality, attendees cannot take pictures or otherwise obtain copies of the attendance list.

# Competition Act



Suppliers are responsible to avoid anticompetitive activity at all times, including collusion, bid-rigging and price-fixing.



The City's Supply Chain Management department has the responsibility to monitor and report instances of collusion, bid-rigging and price-fixing.

# Competition Act

- Bid-rigging, price-fixing and other forms of collusion, prohibited by the Competition Act typically *result in higher prices and lower quality goods and services.*
- Collusion can take many forms including:
  - Cover bidding
  - Bid suppression
  - Bid rotation
  - Market division



# Competition Bureau



## Competition Act

The Competition Act maintains and encourages competition throughout the country. It aims to promote the efficiency and adaptability of Canada's economy and to balance the opportunities for local and foreign businesses operating in Canada.



## Competition Bureau

The Competition Bureau is an independent law enforcement agency that protects and promotes competition for the benefit of Canadian consumers and businesses.



# Competition Bureau – What to do



Government  
of Canada

Gouvernement  
du Canada



MENU ▾

[Canada.ca](#) > [Competition Bureau Canada](#)

## Bid-rigging, price-fixing and other agreements between competitors

Many types of agreements between competitors can enhance competition and benefit the economy. However, certain agreements can significantly harm competition and are against the law.



# Competition Bureau – What to do

If you have been a participant in an illegal agreement, such as bid-rigging or price fixing, consider contacting the Competition Bureau as soon as possible and seeking legal advice.

Immunity or leniency from prosecution may be available if you:

- Are willing to terminate your participation
- Come forward with information
- Continue to provide information
- Fully cooperate with the Competition Bureau throughout the investigation



# BRT PROJECT

Rob Dudiak  
Special Projects Manager, Technical Services



# Bus Rapid Transit Project



# Bus Rapid Transit Project





# LANDFILL PROJECTS

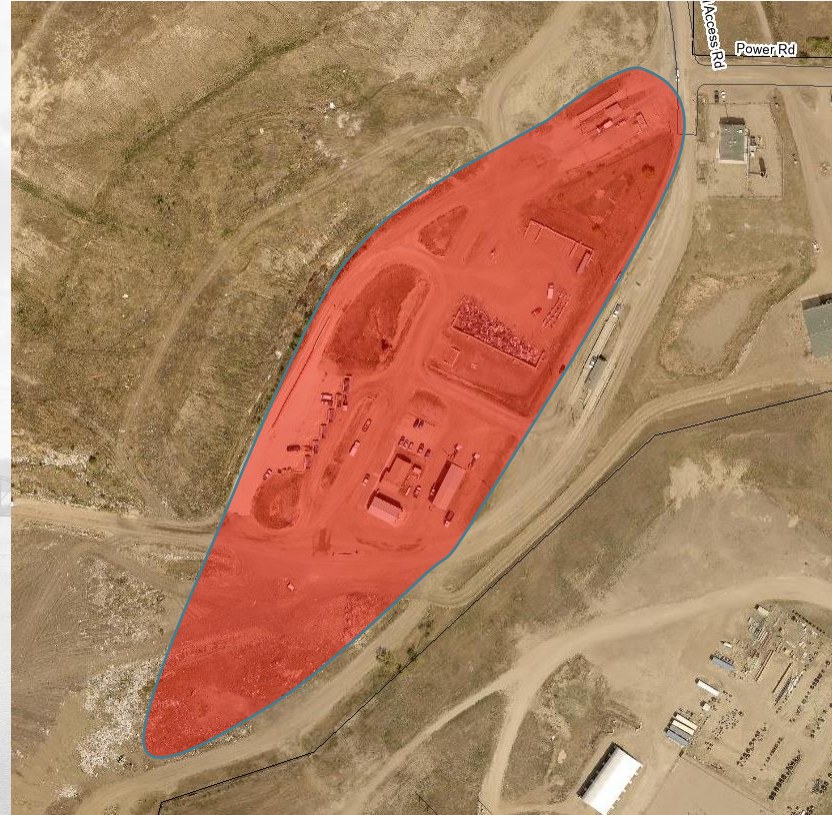
Scott Theede

Senior Project Management Engineer, Water and Waste Operations



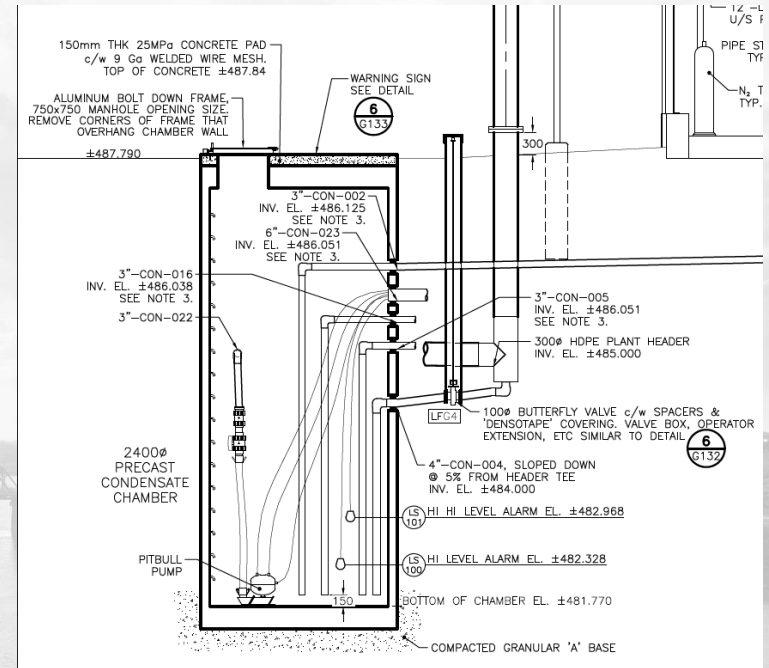
# Saskatoon Regional Waste Management Centre (Landfill) – East Lateral Liner Expansion

- 25,000m<sup>3</sup> of waste in place to be relocated onsite.
- Final 40,000m<sup>2</sup> footprint liner expansion
  - Drainage Rock (30 cm thick)
  - Geotextile
  - HDPE Geomembrane
  - GCL
- 36,000 m<sup>3</sup> of hydrocarbon impacted soil to be relocated onsite.
- Total Excavation of 150,000 m<sup>3</sup>



# Saskatoon Regional Waste Management Centre (Landfill) – Landfill Gas Collection Work

- Engineering assistance to evaluate and re-work condensate chamber for maintenance without confined space entry.
- Replacement of process gas analyzer
- Pipe repairs or additions to restore full vacuum to lateral 3 wells.







# MUNICIPAL ENGINEERING SERVICES

Lowell Reinhart  
Senior Operations Engineer, Technical Services



# Water and Sewer



- W&S Maintenance Support
- Sewer Connection Cleaning
- Frozen Connection Thawing
- Emergency Bottled Water Supply

# Roadways Summer Contracts

- Pothole Patching
- Towing Services
- Aggregate Supply
- Concrete Supply
- Road Weather Information Systems



# Compost Depot

- Compost Depot Screening
- Compost Depot Site Maintenance
- Compost Depot Site Attendants



# Nicholson Yard

- Site Clean-up prior to 2028 for Land Development



# Roadways Winter Materials

- Winter Salt

- Winter Sand

- Liquid De-Icer

- Cold Mix Asphalt



# Roadways Winter Services

- Snow Dump Pushing
- River Landing Snow Clearing
- Snow Maintenance Support Call-Out list
- Residential Snow Removal Pre-Qual





# CONTRACTOR ENVIRONMENTAL GUIDELINES

Wesley Wizniuk  
Project Engineer (Soils), Sustainability





# Contractor Environmental Guidelines

## **Purpose:**

- To inform expected standard for environmental protection for City contracts.
- Primary focus on regulatory requirements and BMPs

## **Outcome:**

- Regulatory compliance (enviro protection)
- Enhanced environmental performance



# Contractor Environmental Guidelines

How do we use the CEG?

- Information tool (12 subject areas)
- Signed Acknowledgement Form (App A)
- Environmental Management Plans
  - Project Specific
  - Where required



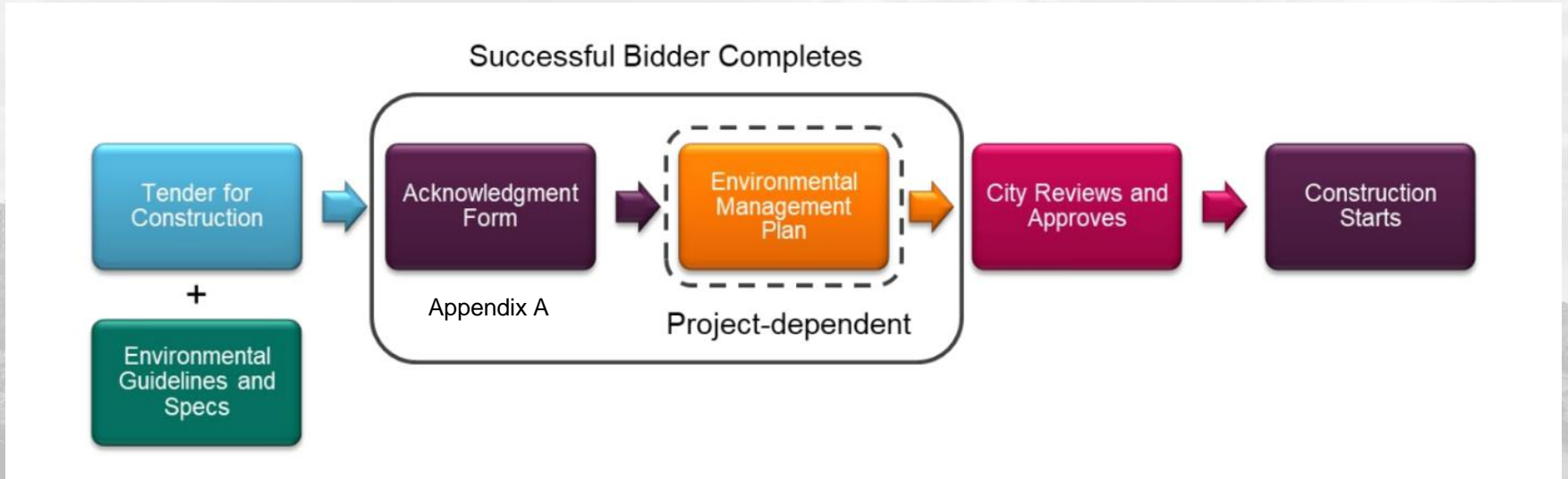
# Contractor Environmental Guidelines

## What is required from Contractors?

- Appendix A – Acknowledgement Form
  - Accepting responsibility to comply with any specific requirement identified in the contract
- Environmental Management Plan – EMP (where required)
  - Project-specific plan to identify/control environmental impacts during a project. It demonstrates how compliance with regulations, legislation, and approvals will be achieved
- These items are required prior to work starting



# Contractor Environmental Guidelines



# 2024 Season Focus - CEG

- Future work on the CEG will occur in 2024/2025 to further strengthen environmental coverage
  - Soil and erosion control
  - Storm water protection
- 2024 Environmental Management Plan submission will continue to be to the Project Designate (where required)



# **PARKS DESIGN**

Michael Beresnak  
Landscape Architect, Parks



# Buena Vista Park Upgrade



- New asphalt pathways
- New site furniture
- New irrigation system
- Tree and shrub planting
- Grading work

# John Avant Park Upgrade



- New asphalt pathways
- New site furniture
- New irrigation system
- Additional trees and shrubs
- Grading work

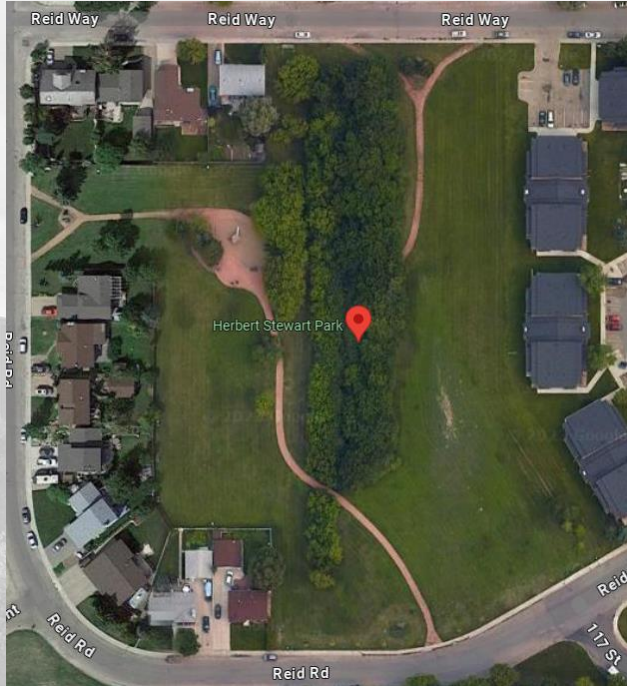


# Robert Hunter West Park Upgrade



- New asphalt or crusher dust pathways
- New site furniture
- New irrigation system
- Tree and shrub planting

# Herbert Stewart Park Upgrade



- New asphalt pathways
- New site furniture
- New irrigation system
- Additional trees and shrubs
- Grading work

# Forestry Farm Linkage



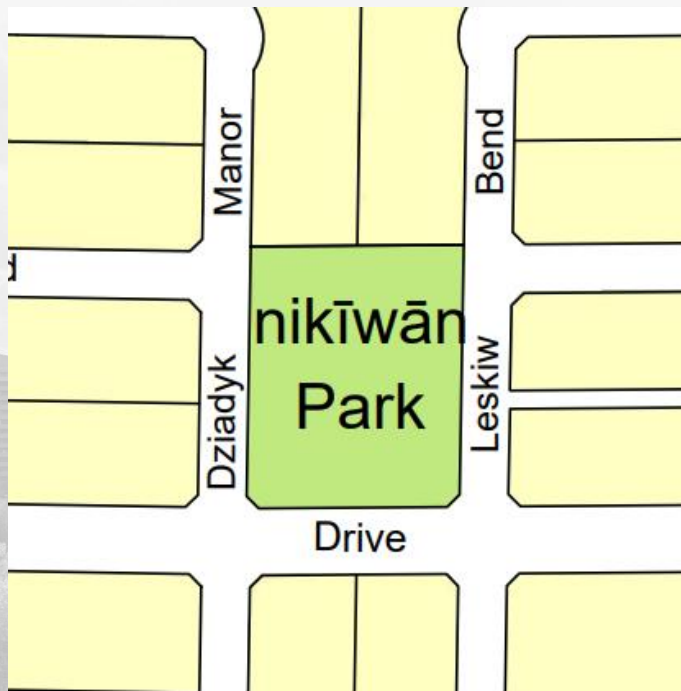
- New asphalt pathways
- New site furniture
- New irrigation system
- Additional trees and shrubs
- Grading work

# Boughton Park Upgrade



- New asphalt pathways
- New site furniture
- New irrigation system
- Additional trees and shrubs
- New Playground

# Rosewood Pocket Park (nikiwān)



This is a new park, that will include:

- Grading
- Irrigation
- Asphalt Pathways
- Playground
- Site Furniture
- Trees and Shrubs