

An aerial photograph of a park area. A wide, paved walkway with a brick pattern runs diagonally across the frame. To the left of the path is a river and a landscaped area with tall grasses and shrubs. To the right is a green lawn and more trees. Several people are walking on the path, including a woman pushing a stroller and walking a dog. The sky is clear and blue.

# Shaping Our Financial Future

**2018 APPROVED CAPITAL  
PROJECT DETAILS**





**City of Saskatoon**

**2018 APPROVED**

**CAPITAL PROJECT DETAILS**

APPROVED BY CITY COUNCIL,  
APRIL 30, 2018

The projects contained in this section are sorted by project number order. An index is included at the back of the section that cross references the Business Lines these projects are budgeted within.



**0582 FIRE-EQUIPMENT & SMALL VEHICLE REPLACEMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2010
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Glenn Ledray
<b>Asset Type</b>	Fire Apparatus	<b>Est. End Date</b>	-

**Project Description**

This project provides the replacement and refurbishment of cars, trucks, vans and equipment used by the Saskatoon Fire Department.

**General Comments**

Vehicles and equipment are scheduled to be replaced as they reach the end of their safe serviceable life.

The equipment scheduled to be replace in 2018 includes thermal imaging cameras; fire hoses; and water rescue, dangerous goods, technical rescue, and apparatus equipment. The 2018 vehicle replacement budget includes provision for five road vehicles, two boats and one heavy urban search and rescue trailer.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Equipment Replacement	128.0	129.0	130.0	132.0	134.0
Vehicle Replacement	225.0	183.0	259.0	90.0	158.0
<b>Total</b>	<b>353.0</b>	<b>312.0</b>	<b>389.0</b>	<b>222.0</b>	<b>292.0</b>
<b>FINANCING DETAILS</b>					
FIRE SMALL EQUIPMENT REPL RESERVE	353.0	312.0	389.0	222.0	292.0
<b>Total</b>	<b>353.0</b>	<b>312.0</b>	<b>389.0</b>	<b>222.0</b>	<b>292.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0583 TR-REPLACE/REFURB BUSES**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Paul Bracken
<b>Asset Type</b>	Transit Buses	<b>Est. End Date</b>	-

**Project Description**

This project provides for the scheduled replacement and/or refurbishment of existing buses in order to maintain an in-service fleet size of 161 buses. This will be accomplished by purchasing replacement buses and by refurbishing buses when it makes economic sense to do so.

**General Comments**

In an effort to achieve its target average fleet age of 9 years, Transit put forward a report called "Building Better Transit: an Asset Management Plan for Transit and Access Transit Fleet" which was adopted by City Council July 2016. With the announcement of the Growing the Middle Class Infrastructure Plan by the Federal Government, City Council approved the Public Transit Infrastructure Fund strategy in principle to purchase up to 40 conventional buses over the period 2016 to 2018. In 2016, an order of 11 transit low-floor buses and four 30 foot buses at an estimated cost of \$7.95 million was placed and expected for delivery in 2017.

From 2017 to 2019, Transit is planning to purchase up to 24 buses based on service needs with a combination of regular size low-floor and 30 foot buses worth \$14.49 million.

In 2017 through 2019 the funding from both internal sources and the Public Transit Infrastructure Funding allowed for Transit's Fleet Renewal Strategy to be expedited. Future purchases planned for 2019-2027 that are required to continue with the Asset Management Plan presented in 2016 (10 bus replacements a year) are unfunded.

A conventional (low floor) bus is estimated at \$590,000 and an articulated bus at \$800,000. Refurbishments are estimated at \$97,000 per bus.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Bus Refurbishment	970.0	970.0	970.0	970.0	970.0
Bus Replacement	0.0	3,000.0	6,100.0	6,300.0	6,500.0
<b>Total</b>	<b>970.0</b>	<b>3,970.0</b>	<b>7,070.0</b>	<b>7,270.0</b>	<b>7,470.0</b>
<b>FINANCING DETAILS</b>					
TRANSIT VEHICLE REPLACEMENT RESERVE	970.0	970.0	970.0	970.0	970.0
UNFUNDED MAJOR PROJECTS	0.0	3,000.0	6,100.0	6,300.0	6,500.0
<b>Total</b>	<b>970.0</b>	<b>3,970.0</b>	<b>7,070.0</b>	<b>7,270.0</b>	<b>7,470.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

## 0584 TR-ADDITIONAL BUSES

Project Status	Open	Year Identified	2010
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Paul Bracken
Asset Type	Transit Buses	Est. End Date	-

### Project Description

This project provides for the expansion of the in-service fleet to provide new service to existing subdivisions, the University of Saskatchewan, high schools, or to provide additional service on routes with capacity problems.

### General Comments

The current cost of a new articulated bus is \$800,000 and the cost of a new conventional (low floor) bus is \$590,000.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Additional Buses Purchases	0.0	0.0	590.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>590.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
TRANSIT ADDITIONAL VEHICLES RESERVE	0.0	0.0	590.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>590.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0616 LAND DEV'T-PRIM WTRMN-NORTHEAST SECTOR**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the extension of primary water mains to the University Heights and North East Sectors. These primaries will facilitate approximately 1,200 hectares of staged development in the North East Sector in the near future. In the long term these primaries will also facilitate approximately 1,800 hectares of development in the East Sector.

Notes: Primary water mains required for any given neighbourhood may also be required for subsequent neighbourhood

SECTION *	LENGTH (m)	SIZE (mm)	YEAR(s)	
AB	5,620	750	1982/84	Complete
BB	910	750	1984/85/86	Complete
AE	1,610	600	1987	Complete
BC	600	900	2000	Complete
CF	2,000	1,050	2009	(Required for Evergreen)
KH	4,800	1,050	1998/99/2000	Complete
HF	3,200	1,050	2017 & Beyond	(Required for Neighbourhood#2) Fill Main
LF	3,100	600	2011/2013	(West portion required for Evergreen)
FF	945	1,050	2012	(East portion of Evergreen)
MM'	600	1,050	2014	(Required for UHII & NE Sector)
M'N'N1	930	900	2015	(Required for UHII & NE Sector)
N'P	170	600	2015	(Required for UHII & NE Sector)
N1N2	360	600	2018	(Required for UHII & NE Sector)
N2N	300	600	2019	(Required for UHII & NE Sector)
PP1	660	600	2020	(Required for UHIII & NE Sector)
LK	670	600	2020	(Required for UHIII & NE Sector)
KP'P1	4,085	600	Beyond 2022	(Required for UHIII & NE Sector)
HL	1,150	600	1998/2011	(Required for Evergreen)
CO	1,500	1,050	2013	(Required for East Sector)

AA' Isolate NE sector water system at College 2003 Complete

Drive to improve control of water pressures east of Preston Avenue

\* A map indicating the location of the sections is available from the Transportation and Utilities Department upon request.

**Note:** As neighbourhood concept plans are approved, the route, the length, and diameter of some segments, and therefore the estimated cost will be updated.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Fill Mains-Cent/NE Res aka Evergreen (now Land Dev project)	2,800.0	4,160.0	0.0	0.0	0.0
Fill Mains-Cent/PMW's - Acadia/Zone	0.0	0.0	1,082.0	0.0	0.0
LK - Central - Fedoruk to Perimeter	0.0	0.0	1,213.0	0.0	0.0
MM',M'N'N1P, N1N2,N1N/PP' McOrmond-Fedoruk North to Perimeter Rd.	0.0	0.0	1,195.0	0.0	0.0
<b>Total</b>	<b>2,800.0</b>	<b>4,160.0</b>	<b>3,490.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PRIMARY WATERMAIN RES	0.0	0.0	2,408.0	0.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	2,800.0	4,160.0	1,082.0	0.0	0.0
<b>Total</b>	<b>2,800.0</b>	<b>4,160.0</b>	<b>3,490.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**0619 LAND DEV'T-ARTL RD-CENTRAL(ROSSMO-PERIMETER RD)**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the design and construction of the extension of Central Avenue from Rossmo Road to the proposed Perimeter Road. Central Avenue is the main North-South arterial providing access to future development East of the river and North of Attridge Drive.

**General Comments**

The Somers Road/Fedoruk section of this arterial began in 2013 and is planned to be completed in 2018.

**Prior Budget Approvals**

\$3,430,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Somers Road/Fedoruk	3,936.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>3,936.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ARTERIAL ROAD RESERVE	3,936.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>3,936.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0625 LAND DEV'T-TR SWR-NORTHEAST SECTOR**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	PREPAID LAND DEVELOPMENT	<b>Manager</b>	Daryl Schmidt
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project involves the extension of the storm and sanitary trunk sewers north, south, and east from the Saguenay Drive river crossing to facilitate approximately 1,200 hectares of staged development in the northeast sector in the near future. In the long term, these trunks will also facilitate approximately 1,800 hectares of development in the east Sector.

**General Comments**

Note: Trunks required for any given neighbourhood may also be required for subsequent neighbourhoods. Changing the order of development will not necessarily delay a given project.

<b>SECTION *</b>	<b>LENGTH (m)</b>	<b>SIZE (mm)</b>	<b>YEAR(s)</b>	
River to A	-	3,050/1,200	1980/84	Complete
AA' Isolate NE sector water system at College	900	3,050/1,200	1984/85	Complete
AB	300	1,800/525	1986	Complete
AC	650	3,050/1,200	2000	Complete
B-Erindale Basin	-	-	1987/88/89	(Required for Evergreen)
C'D	1,450	3,050/1,200	2012	(Required for east Sector)
CE	630	1,800/450	2003/04	Complete - Willow Grove
E-Willowgrove North Basin	3,100	-	2005	Complete - North Willow Grove
EE-Phase I	570	1,650	2005	Complete - North Willow Grove
EE-Phase II	710	1,350	2006	Complete - North Willow Grove
F-Willowgrove South Basin	-	-	2003/08	Complete - South Willow Grove
GH	950	1,800/750	1987	Complete
HI	525	1,500/675	1997	Complete
IJ	350	1,050/600	1997	Complete
JJ	200/820	1,350/600	1998	Complete
ABCD	1,700	1,350/600	2009/12	Complete - Evergreen
Pond #1	-	-	2009	Complete - Evergreen
Pond #1 to River	1,400	1,500	2009	Complete - Evergreen
Lift Station	-	-	2013	(Required for UH2)
Force Main - MI	3,582	450	2013	(Required for UH2)
Stm Tr-S. Willow Grove	-	Open Channel	2008	Complete - South Willow Grove
Pond 2	-	-	2015	(Required for UH2)
MN/MO-O'/MN' - San Trunks	1,690	375/450/525/600	2014 & Beyond	(Required for UH2)
ST, TU, TV Stm Trunk	2,350	1,350/1,800	2013 & Beyond	(Required for UH2)
FGG' - Force Main San	1,600	450	2020	(Required for UH3/UH4)
Temp. LS San	-	-	2020	(Required for UH3)
FGHH' - Trunk San	2,475	450/750	2020/2022	(Required for UH3)
EF - River Xing San	-	-	2022 & Beyond	(River Crossing rseqd. for UH3/UH4/FG)
HH'/H'I ST	1,730	1350/1500/1800	2022 & Beyond	(Required for UH3)
Pond 3 ST	-	-	2022	(Required for UH3)
FJKL San	2,500	900/1,200	Beyond 2022	(Required for UH3 & UH4)
OPQR/QXY/WT' ST	5,630	1350/1500/1800/2100	Beyond 2022	(Required for UH3 & UH4)
Pond 4 ST	-	-	Beyond 2022	(Required for UH3 @ North of NE Swale)
Pond 5 ST	-	-	Beyond 2022	(Required for UH3/UH4)

\* A map indicating the location of the sections is available from the Transportation & Utilities Department upon request.

**Prior Budget Approvals**

\$90,259,000

## Land Development

Approved 2018

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
FGH/HH' - Sanitary/Lift/Forcemain	0.0	0.0	6,783.0	0.0	2,700.0
HH'/H'I - Storm/Pond 3	0.0	0.0	0.0	0.0	4,827.0
M-Neighbourhood UH2 - Lift Station	370.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>370.0</b>	<b>0.0</b>	<b>6,783.0</b>	<b>0.0</b>	<b>7,527.0</b>
<b>FINANCING DETAILS</b>					
TRUNK SEWER RESERVE	0.0	0.0	6,783.0	0.0	7,527.0
WASTEWATER LIFT STATION RES	370.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>370.0</b>	<b>0.0</b>	<b>6,783.0</b>	<b>0.0</b>	<b>7,527.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0626 LAND DEV'T-SUBDIVIS'N WARRANTY**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves warranty work in prepaid subdivisions.

**General Comments**

In this project, funding is provided for warranty construction after the issuance of the final acceptance certificate. Funding from the Property Realized Reserve is used for reconstruction of sidewalks in City development areas that are damaged during home construction.

**Prior Budget Approvals**

\$4,509,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	522.0	489.0	0.0	0.0	0.0
<b>Total</b>	<b>522.0</b>	<b>489.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PROPERTY REALIZED RES	100.0	100.0	0.0	0.0	0.0
WARRANTY RESERVE	422.0	389.0	0.0	0.0	0.0
<b>Total</b>	<b>522.0</b>	<b>489.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0627 LAND DEV'T-SUBDIVIS'N FENCING**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the construction of fencing relating to various prepaid subdivisions.

**General Comments**

Fencing is constructed in various prepaid subdivisions as development of the neighbourhood progresses.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Fencing - Rosewood	25.0	0.0	77.0	0.0	0.0
Fencing-Aspen Ridge	0.0	0.0	64.0	0.0	0.0
Fencing-Brighton	77.0	52.0	52.0	0.0	0.0
Fencing-Elk Point	45.0	0.0	0.0	0.0	0.0
Fencing-Kensington	0.0	0.0	73.0	0.0	0.0
<b>Total</b>	<b>147.0</b>	<b>52.0</b>	<b>266.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
FENCING RESERVE	147.0	52.0	266.0	0.0	0.0
<b>Total</b>	<b>147.0</b>	<b>52.0</b>	<b>266.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



# 0631 TU-TRANSPORTATION SAFETY IMPROVEMENTS

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Shirley Matt
Asset Type		Est. End Date	-

## Project Description

This project includes various transportation safety improvements throughout the City including intersection and right-of-way improvements, safety messages and the management and implementation of the Road Safety Action Plan.

## General Comments

This project supports the City of Saskatoon's long-term 'Moving Around' strategy as traffic safety devices provide safety to motorists, cyclists and pedestrians.

Details on the program proposed for the budget year will be presented in an administrative report prior to, or concurrent with, the Council budget meeting.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
CONSTRUCTION	125.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>125.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
TRAFFIC SAFETY RESERVE	125.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>125.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0634 LAND DEV'T-TR SWR-NORTH INDUSTRIAL**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the extension of the sanitary trunk sewers from the pollution control plant to service the Marquis Industrial Area. These Trunks are required to serve new and existing industrial areas in the northern part of the City. This project also includes Storm Trunks and Storm Ponds.

**General Comments**

This strategy will provide trunk services to the area bounded by the perimeter highway, 1/2 mile west of Idylwyld Drive and north of 60th Street.

SECTION *	LENGTH (m)	SIZE (mm)	YEAR(s)	
Wetland Design Industrial	-	-	2006	Engineer Consultant to propose Wetland System
AB	613	1,500/3,050	2006	Complete
BC	400	1,200/2,400	2006	Complete
CD	673	1,200/2,100-2,400	2006	Complete
DD'/D'EFN	1,020	1,050/1,050-1,200	2011/12	Complete
FG	1,000	1,050	2013	Complete
DT Pond #2	-	-	2012	Conversion of Existing Wetland to 12.1ha Wetpond
HN	470	1,350	2013	
EI	887	900/1,500	2020	
IJ St.	500	1,050	2021	Required for area W of Faithfull
IK San	825	1,050	2021	Required for area N of 71st Street
BC'CD'	900	1,050/2,100	2014	
BI	640	1,050/2,100	2009	
STM Pond #1	-	Dry pond	2009	
D'E San	830	750	2019	
D'E St.	830	1,800	2019	
D'K San	2,100	900	2021	West of Arthur Rose
D'K St.	1,800	900	2021	West of Arthur Rose
KL San	1,400	1,200	Beyond 2021	Required for area W of swale
KL St.	1,400	1,050	Beyond 2021	Required for area W of swale
LL' San	800	450	Beyond 2022	Sanitary Trunk
EF San	1,165	750	2021	Sanitary Trunk east of Wanuskewin
EFF' St.	1,550	600	2021	Storm Trunk east of Wanuskewin
Pond 11 St.	-	-	2021	
FF' San	800	600	Beyond 2022	East of Wanuskewin
FF' St.	800	600	Beyond 2022	East of Wanuskewin
Pond 12 St.	-	-	Beyond 2022	
STM Pond #4	-	3.38ha Dry P	2013	North of 71st

\* A map indicating the location of the sections is available from the Transportation and Utilities Department upon request.

**Prior Budget Approvals**

\$46,651,000

# Land Development

Approved 2018

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
D'E - Sanitary & Storm Trunk - N of CNH	0.0	6,589.0	0.0	0.0	0.0
D'K - San & Stm - West of Arthur Rose	0.0	0.0	0.0	11,558.0	0.0
EF - SAN/EFF"STM/POND II	0.0	0.0	0.0	8,770.0	0.0
EI - Faithfull E - Marquis to 71st	0.0	100.0	3,611.0	0.0	0.0
IJ/IK - San & Stm (71st & Idylwyld)	0.0	0.0	0.0	2,275.0	0.0
KL - San & Stm - (E&W of Idylwyld )	0.0	0.0	0.0	0.0	7,906.0
W&S Master Planning (Trunks & PWM's)	175.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>175.0</b>	<b>6,689.0</b>	<b>3,611.0</b>	<b>22,603.0</b>	<b>7,906.0</b>
<b>FINANCING DETAILS</b>					
TRUNK SEWER RESERVE	175.0	6,689.0	3,611.0	22,603.0	7,906.0
<b>Total</b>	<b>175.0</b>	<b>6,689.0</b>	<b>3,611.0</b>	<b>22,603.0</b>	<b>7,906.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0636 LAND DEV'T-TR SWR-MONTGOMERY PLACE WEST**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the construction of the storm and sanitary trunk sewer systems to serve new development in Montgomery Place West. The storm sewer component (AB) may be combined with future servicing of the West Sector.

**General Comments**

SECTION *	LENGTH (m)	SIZE (mm)	YEAR(s)
A- Stormwater Storage Basin	-	-	Beyond 2022
AB	2,200	600	Beyond 2022
DE - Sewage Lift Stn & Forcemain	620	200	Beyond 2022

\* A map indicating the location of the sections is available from the Transportation and Utilities Department upon request.

**Prior Budget Approvals**

\$72,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
AB - Trunk Storm Sewer	0.0	0.0	0.0	0.0	2,500.0
DE-Sewage Lift Stat'n & Forcemain	0.0	0.0	0.0	0.0	2,735.0
Stm Wtr Storage Basin A	0.0	0.0	50.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>	<b>5,235.0</b>
<b>FINANCING DETAILS</b>					
TRUNK SEWER RESERVE	0.0	0.0	50.0	0.0	2,500.0
WASTEWATER LIFT STATION RES	0.0	0.0	0.0	0.0	2,735.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>	<b>5,235.0</b>
<b>Incremental Operating Impacts (000's)</b>					
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0639 LAND DEV'T-SUBDIVIS'N BUFFERS**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the construction of buffer strips adjacent to prepaid subdivisions.

**General Comments**

Construction of buffer strips may include grading, topsoil, seeding and shelter belts. This project also involves reimbursement for costs incurred by the developer for berm construction.

**Prior Budget Approvals**

\$5,910,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Buffers - Brighton	98.0	163.0	165.0	0.0	0.0
Buffers - Elk Point	115.0	0.0	0.0	0.0	0.0
Buffers - Rosewood	66.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>279.0</b>	<b>163.0</b>	<b>165.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BUFFER RESERVE	279.0	163.0	165.0	0.0	0.0
<b>Total</b>	<b>279.0</b>	<b>163.0</b>	<b>165.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**0655 LAND DEV'T-ARTL RD-MCORMOND(E SECT-PERIMETER RD)**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the design and construction of a North-South arterial roadway extending to the future commuter bridge crossing. This roadway is the main North-South arterial that will provide access to the University Heights Suburban area and the Holmwood Sector. In the long term, this roadway will form part of the roadway network feeding the proposed Perimeter Road.

**General Comments**

The construction in 2003 included a joint project with the Ministry of Highways and Infrastructure to upgrade the intersection of McOrmond Road and Highway 5.

**Prior Budget Approvals**

\$28,983,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
6th Collector to 8th Street	0.0	0.0	0.0	2,481.0	2,261.0
Brighton Blvd to Brighton Common	4,500.0	0.0	0.0	0.0	0.0
Brighton Common to 6th Collector	0.0	0.0	3,794.0	0.0	3,457.0
<b>Total</b>	<b>4,500.0</b>	<b>0.0</b>	<b>3,794.0</b>	<b>2,481.0</b>	<b>5,718.0</b>
<b>FINANCING DETAILS</b>					
ARTERIAL ROAD RESERVE	4,500.0	0.0	3,794.0	2,481.0	5,718.0
<b>Total</b>	<b>4,500.0</b>	<b>0.0</b>	<b>3,794.0</b>	<b>2,481.0</b>	<b>5,718.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0668 PARK DEV-BOULEVARD DEVELOPMENT**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Michelle Chartier
Asset Type		Est. End Date	-

**Project Description**

The Community Tree Planting Program (CTPP) involves planting trees on boulevards adjacent to serviced lots and on separate boulevards where planting set-back requirements are met.

**General Comments**

The project involves investigating planting requests, identifying appropriate plant sites, site preparation including soil amendments if required, tree planting, and the three year establishment maintenance of trees in new residential neighbourhoods. It also includes supplemental establishment maintenance, as required, on approved tree planting by developers in new neighbourhoods.

**Operating Impact**

\$16,400 in 2021 (average annual life cycle cost of 290 trees at \$56.40 per tree)

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	120.0	120.0	120.0	120.0	120.0
<b>Total</b>	<b>120.0</b>	<b>120.0</b>	<b>120.0</b>	<b>120.0</b>	<b>120.0</b>
<b>FINANCING DETAILS</b>					
PARKS AND RECREATION LEVY (MULTI-DISTRICT)	120.0	120.0	120.0	120.0	120.0
<b>Total</b>	<b>120.0</b>	<b>120.0</b>	<b>120.0</b>	<b>120.0</b>	<b>120.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	16.4	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

# 0671 TR-AUXILIARY VEH/EQUIP

Project Status	Open	Year Identified	2009
Project Type	EQUIPMENT REPLACEMENT	Manager	Paul Bracken
Asset Type		Est. End Date	-

## Project Description

This project involves the ongoing purchase/upgrade/replacement of non-fleet Transit System vehicles and equipment in accordance with the Capital Reserves Bylaw.

## General Comments

Transit has moved to the Civic Operations Centre (Project 1584) and the auxiliary equipment required by Transit has been included in Project 1584; therefore there is no funding request for this project in 2018.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Equipment Purchase	0.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>0.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
TRANSIT CAPITAL PROJECTS RESERVE	0.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>0.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0677 AF-ALBERT COMM CENTRE RENOS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	INFRASTRUCTURE MAINTENANCE	<b>Manager</b>	Craig Senick
<b>Asset Type</b>	Buildings	<b>Est. End Date</b>	-

**Project Description**

This project involves identifying and completing the necessary major repair or replacement expenditures as required by the Facility's Comprehensive Maintenance Program.

**General Comments**

Current emergent needs include roofing access improvements and building envelope capital renewal. Planning for portions of this major renewal will require project funding to accrue until sufficient funding is in place.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Repairs	0.0	60.0	0.0	50.0	0.0
<b>Total</b>	<b>0.0</b>	<b>60.0</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ALBERT MAJOR REPAIR RES	0.0	60.0	0.0	50.0	0.0
<b>Total</b>	<b>0.0</b>	<b>60.0</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0679 AF-GROUNDS MTNCE-EQUIPMENT REPL**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Jason Kennon
<b>Asset Type</b>	Parks Equipment	<b>Est. End Date</b>	-

**Project Description**

This project involves the purchase of replacement equipment in accordance with Capital Reserves Bylaw #6774. Replacements are required as the units have reached or passed their scheduled life spans and are experiencing unacceptable maintenance and repair costs, excessive downtime and/or a loss in productivity.

**General Comments**

The pieces of equipment to be replaced will be disposed of by public auction, by public tender or as trade-ins. The pieces of equipment scheduled for replacement are as follows:

Small equipment (chainsaws, whippers etc) - limited to \$20,000

Hydro-seeder - \$6,000

Mini-Haul Truck - \$16,500

52" Mower - \$23,000

Tractor (50-60HP) - \$60,000

Aerator - \$12,000

Fertilizer Spreader - \$6,500

Sod Cutter - \$6,000

Groomer - \$6,000

6' Mower - \$35,000

Snow Blower - \$9,000

Stump Grinder - \$80,000

16' Mower - \$130,000

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Equipment Purchase	410.0	265.0	360.0	400.0	420.0
<b>Total</b>	<b>410.0</b>	<b>265.0</b>	<b>360.0</b>	<b>400.0</b>	<b>420.0</b>
<b>FINANCING DETAILS</b>					
GROUND MAINTENANCE EQUIPMENT RES	410.0	265.0	360.0	400.0	420.0
<b>Total</b>	<b>410.0</b>	<b>265.0</b>	<b>360.0</b>	<b>400.0</b>	<b>420.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**0681 LAND DEV'T-ARTL RD-TAYLOR(MCKER-CP TRACK)**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the extension of Taylor Street East of McKercher Drive to the Canadian Pacific Railway (CPR) tracks. This is required to provide access to the Lakeview, Lakeridge, Lakewood, Briarwood and Rosewood subdivisions and is the only East-West arterial roadway South of 8th Street.

**General Comments**

Additional construction for Rosewood Gate to CPR tracks section is planned for 2019 and beyond.

**Prior Budget Approvals**

\$5,432,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Rosewood Gate North to Rosewood Drive	0.0	3,519.0	0.0	3,207.0	0.0
<b>Total</b>	<b>0.0</b>	<b>3,519.0</b>	<b>0.0</b>	<b>3,207.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ARTERIAL ROAD RESERVE	0.0	3,519.0	0.0	3,207.0	0.0
<b>Total</b>	<b>0.0</b>	<b>3,519.0</b>	<b>0.0</b>	<b>3,207.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0686 LAND DEV'T-PRIM WTRMN-SOUTHEAST SECTOR**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the extension of primary water mains to the area East of Boychuk Drive and South of 8th Street. These primaries will facilitate the development of residential neighbourhoods in the South East Sector and the Lakewood Suburban Centre.

**General Comments**

SECTION *	LENGTH (m)	SIZE (mm)	YEAR(s)	
AB	530/550	1,050	1989 & 1996	Complete
BC	240	600	1996	Complete
BD	1,200	1,050	2005 & 2009	Complete
DD'	505	1,050	2009	Complete
D'E	980	1,050	2018	(Required for Rosewood)

\* A map indicating the location of the sections is available from the Transportation and Utilities Department upon request.

**Prior Budget Approvals**

\$2,958,000 - Prior years' approvals reflect the Weyakwin/Briarvale section

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
D'E - Taylor - Rosewood Gate N to Rosewood E	2,873.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>2,873.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PRIMARY WATERMAIN RES	2,873.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>2,873.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0687 WWT- ASSET REPLACEMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Larry Schultz
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project involves the replacement of deteriorating Wastewater Treatment Plant assets (in accordance with the Capital Reserves Bylaw) that have reached the end of their useful life. The assets are replaced by similar equipment or equipment with a similar function.

**General Comments**

The asset group defined by the project are subject to a review to determine condition and eligibility. The project includes an item labeled Existing System Replacements. This provides funding for assets that experience premature failure and require immediate return to service.

External service providers will be utilized on selected projects within the overall Asset Replacement Program.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Bioreactors - Pumps & Processes	0.0	1,066.0	0.0	0.0	232.0
Digester - Pumps	75.0	78.0	81.0	2,362.0	811.0
Fermentor - Pumps & Processes	60.0	187.0	65.0	101.0	70.0
Grit & Screen - Pump and Processes	90.0	551.0	584.0	56.0	58.0
Heating Bldg - Pumps/Piping/Processes	250.0	104.0	108.0	0.0	0.0
Other - Labs, Server	250.0	0.0	0.0	0.0	0.0
PEP - Pumps	0.0	0.0	65.0	67.0	139.0
Primary Basins - Pumps & Processes 2	555.0	130.0	174.0	181.0	187.0
Sec Clarifiers - Pumps & Processes	610.0	572.0	54.0	0.0	0.0
Thickener - Pumps	100.0	0.0	184.0	65.0	116.0
Utility Building	420.0	140.0	0.0	0.0	0.0
UV - Processes & Electrical	0.0	0.0	108.0	0.0	0.0
<b>Total</b>	<b>2,410.0</b>	<b>2,828.0</b>	<b>1,423.0</b>	<b>2,832.0</b>	<b>1,613.0</b>
<b>FINANCING DETAILS</b>					
SEWAGE COLL & TRTMNT REPL RES	2,410.0	2,828.0	1,423.0	2,832.0	1,613.0
<b>Total</b>	<b>2,410.0</b>	<b>2,828.0</b>	<b>1,423.0</b>	<b>2,832.0</b>	<b>1,613.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0704 LAND DEV'T-TR SWR-SOUTHEAST SECTOR**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the extension of the trunk sewers on Boychuk Drive from 8th Street to the area bounded by 8th Street on the North, to Highway 16 on the South, Circle Drive on the West, and CPR on the East.

**General Comments**

SECTION *	LENGTH (m)	SIZE (mm)	YEAR(s)	
AB	1,580	1,600/1,200	1988/93/94/95	
AC Stormwater Storage Basin & Lift Station	-	-	1988/1994	
EF Stormwater Storage Basin	-	-	1988/95/97/98	
H Hyde Wetlands East	-	-	2009	Req'd for east portion of Rosewood
HJ Storm Trunk	300	500	2009	Req'd for W & E portion of Rosewood
BE Lakewood San Trunk	800	600	1999/2001	Req'd for Suburban Ctr West
DE San Trunk	1,500	300/450	2008	Kingsmere lift to Lakewood Lift Station
E Lift Station Stage II	-	-	2004	Req'd for suburban Ctr east
EJ San Trunk	900	75/450/525	2004/09	Req'd for suburb Ctr E & E part of R-wood nbrhd
B Trounce Pond	-	-	1996/2000/01/03	
EO Boychuk Forcemain	-	-	2014	Req'd for R-wood-Lakewood Lift Stn to Moncton
G Hyde Wetlands West	150	1,500	2004/08	Req'd for west portion of R-wood neighbourhood
E Lift Station Stage II	-	-	-	(No longer req'd)
KE Storm Trunk	200	1,500	2001	
Drainage Master plan	-	-	2001	
Pond M- Taylor Street	-	-	2010	Req'd for east portion of Rosewood nbrhd
Pond N - Briarwood Swale	-	-	2010	Req'd for east portion of Rosewood nbrhd
E Boychuk Storage Tanks	-	-	2019	Req'd for Rosewood Wet Weather Flows

Wet weather Storage Tank San

\* A map indicating the location of the trunk sections, stormwater storage basins, and lift stations are available from the Transportation and Utilities Department upon request.

**Prior Budget Approvals**

\$16,427,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
E-Boychuk Storage Tanks	0.0	2,350.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>2,350.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	2,350.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>2,350.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0706 CY-LEIS SERV-FACILITY EQUIP REPL**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Bruce Pearson
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project involves the replacement of major pieces of equipment for the Recreation and Community Development Division of the Community Services Department, in accordance with the Capital Reserves Bylaw.

**General Comments**

The 2018 budget includes the replacement of recreation, fitness and aquatic equipment at the indoor leisure facilities, and the replacement of the score clocks and controllers at the five indoor arenas.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Arena LED Scoreclocks	65.0	0.0	0.0	0.0	0.0
Equipment Purchase	125.0	0.0	0.0	0.0	0.0
Leisure Centre Equipment	22.0	125.0	125.0	125.0	125.0
Zambonis	0.0	105.0	0.0	110.0	0.0
<b>Total</b>	<b>212.0</b>	<b>230.0</b>	<b>125.0</b>	<b>235.0</b>	<b>125.0</b>
<b>FINANCING DETAILS</b>					
LEISURE SERVICES EQUIPMENT REPL RES	212.0	230.0	125.0	235.0	125.0
<b>Total</b>	<b>212.0</b>	<b>230.0</b>	<b>125.0</b>	<b>235.0</b>	<b>125.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**0720 SL&P - CAPACITOR INSTALLATIONS**

Project Status	Open	Year Identified	2009
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Mehmoosh Janbakhsh
Asset Type		Est. End Date	-

**Project Description**

The objective of this project is to provide power factor correction to reduce the peak electrical demand of the electrical distribution system. The installation of capacitors reduces power demands and the associated cost of bulk power purchases. With the completion of the Smart Meter installations, more information on voltage at the customer end-points will be available and allow for a more systematic approach to demand reduction and power delivery efficiencies.

**General Comments**

Traditionally, capacitor banks are installed on the electric distribution lines to offset power characteristics from transformers, motors, and other loads that result in less efficient power delivery. There are a variety of approaches available depending on the operating requirements, real-time data available, and economic conditions. This project will include a review of these requirements and use the available data to determine a more optimal system operating condition that could result in significant savings to the utility. Typical system improvements result in reduction of line losses from 2% to 5%.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Volt/Var Demand Reduction	150.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>150.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	150.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>150.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0724 SL&P - REVENUE METER - NEW & REPLACEMENT**

Project Status	Open	Year Identified	2010
Project Type	EQUIPMENT REPLACEMENT	Manager	Moussa Fadlelmawla
Asset Type		Est. End Date	-

**Project Description**

This project is for the installation of electrical revenue meters. The electronic meters being installed provide greater accuracy and comply with Measurement Canada requirements. They also provide the opportunity for the collection of additional engineering data to enhance the operation of the electric system (part of a Smart Grid implementation).

**General Comments**

Many of the revenue meters currently in service use older electromechanical technology. The accuracy of an electromechanical meter declines as the mechanical components wear out. As a result, the amount of power registered by the meter is less than is actually used. When meters fail to meet Measurement Canada accuracy standards, replacement is mandatory.

Electronic meters (referred to as 'smart' meters) will replace all the existing electromechanical meters and form the basis of Saskatoon Light & Power's Advanced Metering Infrastructure (AMI) system. The smart meters are able to securely send revenue metering data and other engineering information to a central location for verification, analysis and billing. The engineering data can provide status information which can be used to detect power disturbances, outages and restoration.

Since 2008, approximately 90% of the 59,000 meters have been upgraded. The upgrades are planned to be complete at the end of 2017. After 2017, funding is required to maintain the upgraded population of meters and to meet the demand for new metered electric services.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Meters - Growth & maintenance	350.0	350.0	350.0	350.0	350.0
<b>Total</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	350.0	350.0	350.0	350.0	350.0
<b>Total</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0736 SL&P - CUSTOMER UPGRADES AND EXTENSIONS**

Project Status	Open	Year Identified	2009
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Ashish Pattanashetty
Asset Type		Est. End Date	-

**Project Description**

This project is for upgrades and extensions of the electrical distribution system due to customer demand for new electrical service or electrical load growth. The load types include residential, industrial, commercial, and institutional throughout the electrical service area of Saskatoon Light & Power.

**General Comments**

The budget for this project is developed from a generalized expectation of demand for new services and upgrades to existing services. Project funding includes contributions from the customer and an investment from Saskatoon Light & Power based on anticipated revenue increase.

The electrical facilities normally provided under this project are an electric transformer and cabling from the primary system to the point of service. The work required for a particular service may extend beyond the property being served. However, the scope of work is expected to remain within the immediate locale of that service. The extent of the required construction may be affected by work identified in other active capital projects.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Customer Connections	1,200.0	2,250.0	2,500.0	2,760.0	2,760.0
<b>Total</b>	<b>1,200.0</b>	<b>2,250.0</b>	<b>2,500.0</b>	<b>2,760.0</b>	<b>2,760.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	525.0	1,050.0	1,100.0	1,250.0	1,250.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	250.0	500.0	600.0	610.0	610.0
SL&P CUSTOMER CONTRIBUTION	425.0	700.0	800.0	900.0	900.0
<b>Total</b>	<b>1,200.0</b>	<b>2,250.0</b>	<b>2,500.0</b>	<b>2,760.0</b>	<b>2,760.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0740 TCU PLACE-EQUIPMENT REPAIR/REPLACEMENTS**

Project Status	Open	Year Identified	2010
Project Type	EQUIPMENT REPLACEMENT	Manager	Bob Korol
Asset Type		Est. End Date	-

**Project Description**

This project provides for the repair or replacements of TCU Place equipment.

**General Comments**

Building repairs are not part of this project and are provided for under the Civic Buildings Comprehensive Maintenance Reserve, which is under the jurisdiction of the Facilities Management service line within the Corporate Asset Management business line.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Caretaking and Maintenance	6.0	0.0	16.0	44.0	28.0
Computer	113.0	153.0	55.0	0.0	56.0
Furnishings and Misc	0.0	559.0	9.0	233.0	99.0
Kitchen	0.0	67.0	0.0	100.0	0.0
Lighting	0.0	323.0	0.0	111.0	0.0
Sound	0.0	167.0	0.0	56.0	68.0
Theatre	0.0	0.0	0.0	0.0	197.0
<b>Total</b>	<b>119.0</b>	<b>1,269.0</b>	<b>80.0</b>	<b>544.0</b>	<b>448.0</b>
<b>FINANCING DETAILS</b>					
TCU PLACE EQUIPMENT RESERVE	119.0	1,269.0	80.0	544.0	448.0
<b>Total</b>	<b>119.0</b>	<b>1,269.0</b>	<b>80.0</b>	<b>544.0</b>	<b>448.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0748 LAND DEV'T-GEN ADMIN-OLD AREAS**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the general administration related to the completion of work in old prepaid areas.

**General Comments**

This project includes the preparation of as-built drawings, an update of the aerial photographs of old prepaid areas, an analysis of the operation of existing storm water drainage ponds and final inspections.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
General Admin	134.0	134.0	0.0	0.0	0.0
<b>Total</b>	<b>134.0</b>	<b>134.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
GENERAL PPD SERV-ENGINEERING	134.0	134.0	0.0	0.0	0.0
<b>Total</b>	<b>134.0</b>	<b>134.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0778 LAND DEV'T-TR SWR-STONEBRIDGE**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	PREPAID LAND DEVELOPMENT	<b>Manager</b>	Daryl Schmidt
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project involves the extension of the trunk sewers to the proposed South Bridge and development of the Stonebridge neighbourhood. It will also improve storm sewer services to the Avalon and Adelaide extensions.

This project is subject to further review of servicing and cost implications as well as approval of an overall neighbourhood concept plan.

**General Comments**

Other funding is from Developers for retrofit/reconstruction of existing services.

<b>SECTION *</b>	<b>LENGTH (m)</b>	<b>SIZE (mm)</b>	<b>YEAR(s)</b>	
A- Stonebridge Neighbourhood Lift Stn	-	-	2009	Req'd for east- design req'd to size FM
AB- Preston Forcemain-CNR to Arlington	1,800	375	-	Cancelled
BC- Preston Forcemain-Arlington to 8th	2,400	375	-	Cancelled
DE- Preston Twinning-College to 115th	1,600	600	-	Cancelled
F- Jasper Ave Lift Station Upgrade	-	-	2009	Req'd for west
J- Stonebridge east Pond neighbourhood	-	-	2007/09	Req'd for east
GH- Storm Trunk River to Lorne	1,700	Swale	2006/10	
HL- Storm Trunk-Lorne to brand	1,640	1350/1500	2010	
IJ- Storm Forcemain-Preston to Clarence Neighbourhood	2,100	625	2006/08	Req'd for east
IK- Clarence Storm trunk-Circle to Melville Neighbourhood	350	600	2005/07	Req'd for west
AP- Forcemain-Preston to Brand neighbourhood	2,800	350	2007	Req'd for west
FM- Forcemain-Jasper to Taylor Neighbourhood	2,180	450	2009	(No longer required)
N- Lorne Ave Lift Station Upgrade	-	-	-	(To be handled under separate project)
NO- Forceman-Lorne Lift to 20 & Spadina	-	-	-	(To be handled under separate project)
J- Storm sewer lift station	-	-	2009	Funded from TSR (req'd for east nhbrd)
PF- Forcemain - Brand to Jasper	1,040	350	2015	After South River Crossing
PR- Melville-Stonebridge res. to comm. Neighbourhood	280	375	2005	Req'd for west
RI- Melville-Stonebridge comm. to Clarence Neighbourhood	510	1200/1350/375ss	2005/07	Req'd for west
IL- Melville-Clarence to Brand Neighbourhood	680	900st/450ss	2006	Req'd for west
QR- Storm-West Pond to Melville Neighbourhood	400	750	2006	Req'd for west
Q- Stonebridge West Pond	-	-	2005	Req'd for west neighbourhood
SA- Sanitary East of Preston neighborhood	700	375/450	2008	Req'd for east

\* A map indicating the location of the trunk sections, stormwater storage basins, and lift stations are available from the Transportation and Utilities Services Department upon request.

For 2018, additional funding has been identified for sanitary sewer remediation construction to mitigate odors along Lorne Avenue between 8th Street and Rotary Park.

**Prior Budget Approvals**

\$31,094,000

## Land Development

Approved 2018

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Lorne Avenue Odor Abatement	670.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>670.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
WASTEWATER TRTMNT CAP RES	670.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>670.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0825 SL&P - STREET LIGHT UPGRADES**

Project Status	Open	Year Identified	2010
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Gord Stushnoff
Asset Type		Est. End Date	-

**Project Description**

This project involves the upgrading of street lighting on roadways (not associated with roadway projects).

**General Comments**

The lighting upgrades are typically in response to public safety issues regarding roadway intersection, railway crossings and mid-block lighting. This includes unanticipated requests by City Council, Saskatoon Police Service or special interest groups for lighting upgrades requiring immediate attention.

Additional budget provisions are for localized conversion of street light fixtures from traditional high pressure sodium (HPS) lights to LED (light emitting diode) technologies.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
LED Conversion	100.0	200.0	200.0	250.0	250.0
Lighting Upgrade	60.0	65.0	65.0	65.0	65.0
<b>Total</b>	<b>160.0</b>	<b>265.0</b>	<b>265.0</b>	<b>315.0</b>	<b>315.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	70.0	85.0	85.0	115.0	115.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	90.0	180.0	180.0	200.0	200.0
<b>Total</b>	<b>160.0</b>	<b>265.0</b>	<b>265.0</b>	<b>315.0</b>	<b>315.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



# 0832 CY-CENTER MEDIAN REHABILITATION

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Bruce Laing
Asset Type		Est. End Date	-

## Project Description

This project involves the redevelopment of various centre medians along major arterial streets. The work consists of curb replacements where required, hard surfacing, installation of irrigation systems, tree planting and flower pots.

## General Comments

Priorities are established annually in consultation with the various divisions of the Community Services and Transportation and Utilities Departments. Prior years actual costs have been apportioned approximately 75% for curb and utility replacements, and 25% for landscaping.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Street Medians	0.0	200.0	200.0	200.0	200.0
<b>Total</b>	<b>0.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED TRANSPORTATION INFRA RES	0.0	200.0	200.0	200.0	200.0
<b>Total</b>	<b>0.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

# 0837 TU-LANE REHAB & DRAINAGE IMPROV

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Mitchell Parker
Asset Type		Est. End Date	-

## Project Description

This project involves lane rehabilitation on both paved lanes and gravelled lanes. Rehabilitation is to the original service level of load capacity, ride, drainage and grade elevation.

## General Comments

A more selective process has been implemented to rehabilitate gravel lanes which involves a localized reconstruction program.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Drainage Improvement	127.0	127.0	127.0	127.0	127.0
Gravelled Lanes	1,000.0	1,000.0	1,000.0	1,000.0	1,000.0
Paved Lanes	658.0	658.0	658.0	658.0	658.0
<b>Total</b>	<b>1,785.0</b>	<b>1,785.0</b>	<b>1,785.0</b>	<b>1,785.0</b>	<b>1,785.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-TRANSPORTATION	1,785.0	1,785.0	1,785.0	1,785.0	1,785.0
<b>Total</b>	<b>1,785.0</b>	<b>1,785.0</b>	<b>1,785.0</b>	<b>1,785.0</b>	<b>1,785.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0838 LIBR-EQUIPMENT REPLACEMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Laura Warner
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project involves the replacement of equipment associated with the Public Library in accordance with Policy 03-019 (Equipment Reserve Fund - Public Library).

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Equipment Purchase	200.0	200.0	200.0	200.0	100.0
<b>Total</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
PUBLIC LIBRARY EQUIP REPL RES	200.0	200.0	200.0	200.0	100.0
<b>Total</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>100.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0877 AF-TRUNKING RADIO INFRASTRUCTURE REPLACEMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	SUPPORT SYSTEMS	<b>Manager</b>	Del Ehlert
<b>Asset Type</b>	Communication systems	<b>Est. End Date</b>	-

**Project Description**

This project involves the upgrade and maintenance of the core infrastructure for the City's trunked radio system. The trunking system infrastructure is a corporate resource that is shared by all user departments. The system provides radio communications for Police, Fire, Transportation and Utilities, and other civic departments.

**General Comments**

This project includes the purchase of equipment for planned repairs and replacements of existing infrastructure components of the City's trunked radio system, in accordance with Capital Reserves Bylaw #6774.

This project provides funding for the design and subsequent construction of infrastructure components and equipment to meet the needs identified in the design phase. Planned expansion of additional repeater towers throughout the City's growing neighbourhoods.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Construction	0.0	100.0	0.0	0.0	0.0
Design	50.0	0.0	0.0	0.0	0.0
Infrastructure Replacement	489.0	400.0	420.0	420.0	420.0
<b>Total</b>	<b>539.0</b>	<b>500.0</b>	<b>420.0</b>	<b>420.0</b>	<b>420.0</b>
<b>FINANCING DETAILS</b>					
TRUNKED RADIO SYS INFRAS REPL RES	539.0	500.0	420.0	420.0	420.0
<b>Total</b>	<b>539.0</b>	<b>500.0</b>	<b>420.0</b>	<b>420.0</b>	<b>420.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**0901 CY-PARK UPGRADES, ENHANCEMENTS & REPAIRS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Bruce Laing
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project involves the upgrade, enhancement and repairs of parks throughout the City. Landscape upgrades and enhancements include additional plantings; irrigation system replacements; and installation of subsurface draining systems, lighting, site furniture and play equipment.

**General Comments**

Funding identified in 2018 will reduce the current backlog of park renewal and rehabilitation requirements associated with drainage, pathways and irrigation park infrastructure. The following parks will be upgraded in 2018:

- A.S. Wright: Drainage, irrigation, ball diamonds & planting (7.5 acres)
- C.F. Patterson: Irrigation & planting (2.5 acres)
- A.H. Browne: Irrigation & pathways (5.0 acres)
- John Duerkop: Drainage remediation (4.2 acres)
- Anita Langford : Drainage remediation (14.9 acres)
- Wallace: Drainage remediation (21.7 acres)

Future budget allocations will be determined in accordance with the Parks Asset Management Plan report recommendations expected in late 2017.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
A.H. Browne Park	230.0	0.0	0.0	0.0	0.0
A.S. Wright Park	600.0	0.0	0.0	0.0	0.0
C.F. Patterson Park	120.0	0.0	0.0	0.0	0.0
Drainage Remediation	100.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,050.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
DEDICATED LANDS RESERVE	100.0	0.0	0.0	0.0	0.0
INFRASTRUCTURE RESERVE - PARKS	950.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,050.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

## 0959 TU-UPGRADE BOUNDARY ROADS

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Mitchell Parker
Asset Type		Est. End Date	-

### Project Description

This project involves the upgrading of interim stage gravel roads throughout the City. Treatments could include seal treatment, recycled asphalt, temporary hard surfacing, ditch grading and culvert installation.

### General Comments

Boundary roads are the roads that are between the built up area of the City and the municipal boundary. Most of these roadways are gravel rural grid roads. The size of the boundary roadway network has grown significantly with recent increases in the municipal boundary.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Construction	260.0	400.0	400.0	400.0	400.0
<b>Total</b>	<b>260.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-TRANSPORTATION	260.0	260.0	260.0	260.0	260.0
UNFUNDED TRANSPORTATION INFRA RES	0.0	140.0	140.0	140.0	140.0
<b>Total</b>	<b>260.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1016 SL&P - NEIGHBOURHOOD STREET LIGHT UPGRDS**

Project Status	Open	Year Identified	2010
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Gord Stushnoff
Asset Type		Est. End Date	-

**Project Description**

This project involves upgrading of street lighting in established neighbourhoods. The purpose is to improve the lighting in older established neighbourhoods to match those of neighbourhoods being developed now.

**General Comments**

The layout of street lights in established neighbourhoods is essentially a light at the street corners and one light at mid-block. This project will improve the lighting level for the entire block. The light now at mid-block will be relocated and a new light installed. The two mid-block lights will be approximately evenly spaced in the block. There are variations of street layouts such as centre medians, non-grid layouts, and street width variations where the upgraded lighting layout will be more complicated.

Timing for neighbourhoods is dependent upon a variety of factors including other streetscape projects, neighbourhood traffic patterns, and roadways projects. The following areas are proposed for upgrades to the neighbourhood street lighting: Sutherland, Adelaide/Churchill, North Park, Avalon, Nutana Park, C.N. Industrial, North Industrial, Southwest Industrial, Central Industrial, West Industrial, University Heights Industrial, and Airport Business Park.

Periodic reassessment of the project will occur to determine specific neighbourhoods for the budget year.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Neighbourhood Lighting Upgrade	300.0	0.0	0.0	300.0	0.0
<b>Total</b>	<b>300.0</b>	<b>0.0</b>	<b>0.0</b>	<b>300.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	220.0	0.0	0.0	220.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	80.0	0.0	0.0	80.0	0.0
<b>Total</b>	<b>300.0</b>	<b>0.0</b>	<b>0.0</b>	<b>300.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1018 SL&P - MONITORING SYSTEM UPGRADE (SCADA)**

Project Status	Open	Year Identified	2011
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Don McPhee
Asset Type		Est. End Date	-

**Project Description**

This project is for a Smart Grid Control System for Saskatoon Light & Power (SL&P). The Smart Grid Control System is a hardware and software platform used for the remote operation of the power grid. The system is based around a Supervisory Control and Data Acquisition (SCADA) system with various additional modules that augment the system and integrate with other smart grid components. A complete Smart Grid Control System is complex and many components are dependent upon other base systems. The implementation will start with the replacement of the existing SCADA system followed by integration with the GIS and AMI data and systems.

**General Comments**

A new Smart Grid Control System is needed for SL&P to build a smarter energy infrastructure and an advanced energy delivery system. SL&P's existing SCADA system has diminishing vendor support and is not compatible with long term smart grid strategies such as integration with the City's Advanced Metering Infrastructure (AMI) and Geographic Information System (GIS). A new Smart Grid Control System will have state-of-the-art master station hardware and software and workstation software interfaced with existing field Remote Terminal Units. The new system will leverage existing field devices and integrate with GIS and AMI assets. Long term plans are to continue investing in new technologies and implement system optimization modules that improve the way energy is delivered. These will be coupled with new technologies for data acquisition, control and flexibility. The final phases are to implement outage detection, management, and restoration modules to create a dynamic and more secure power grid and more rapid outage response.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Scada System Upgrade	150.0	150.0	0.0	0.0	0.0
<b>Total</b>	<b>150.0</b>	<b>150.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	90.0	90.0	0.0	0.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	60.0	60.0	0.0	0.0	0.0
<b>Total</b>	<b>150.0</b>	<b>150.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



# 1036 TU-TRAFFIC CONTROL UPGRADES

Project Status	Open	Year Identified	2009
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Goran Lazic
Asset Type		Est. End Date	-

## Project Description

This project upgrades existing traffic controls at one or more locations per year. Upgrades may include installation of new traffic signals or roundabouts or upgrades to existing signals.

## General Comments

This project supports the City of Saskatoon's long-term 'Moving Around' strategy by providing improved traffic controls for all road users to safely move through an intersection.

Details on the program proposed for the budget year will be presented in an administrative report prior to, or concurrent with the Council budget meeting.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	150.0	400.0	400.0	400.0	400.0
<b>Total</b>	<b>150.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>
<b>FINANCING DETAILS</b>					
TRANSP INFRAS EXPANSION	150.0	400.0	400.0	400.0	400.0
<b>Total</b>	<b>150.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1041 TU-BENCHMARK REHABILITATION**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Todd Kuntz
Asset Type		Est. End Date	-

**Project Description**

This project encompasses the construction, replacement and maintenance of a network of benchmark monuments within the City that provide essential horizontal and vertical control for private and public construction purposes.

**General Comments**

Included under the terms of this project are:

- Establishing and maintaining an electronic benchmark database layer within the Enterprise GIS framework
- Providing auxiliary GPS definitions for the benchmark network
- Replacement of damaged or destroyed monuments
- Regular inspection of monuments for condition assessment
- Vertical control verification
- Development and maintenance of information distribution and tracking formats

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Construction	50.0	0.0	0.0	50.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
GENERAL PPD SERV-ENGINEERING	15.0	0.0	0.0	15.0	0.0
INFRA RES-WTR & SAN SWR	35.0	0.0	0.0	35.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1054 WTP-ASSET REPLACEMENT**

Project Status	Open	Year Identified	2009
Project Type	EQUIPMENT REPLACEMENT	Manager	Larry Schultz
Asset Type		Est. End Date	-

**Project Description**

This project involves the replacement of deteriorating Water Treatment Plant assets (in accordance with the Capital Reserves Bylaw) that have reached the end of their useful life. The assets are replaced by similar equipment or equipment with a similar function.

**General Comments**

The asset group defined by the project are subject to a review to determine condition and eligibility. External service providers will be utilized on selected projects within the overall Asset Replacement Project.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Acadia Reservoir Structural Repair	0.0	416.0	0.0	0.0	0.0
Chemical Feeding System	0.0	78.0	0.0	0.0	0.0
Electrical/Mechanical Replacements	0.0	0.0	649.0	0.0	0.0
Filter Plant Refurbishment	0.0	0.0	595.0	1,136.0	1,807.0
Low Lift Pumping	0.0	0.0	2,017.0	2,098.0	0.0
Plant HVAC	1,100.0	94.0	0.0	0.0	0.0
Screen Chamber	0.0	52.0	0.0	0.0	0.0
West Basin	250.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,350.0</b>	<b>640.0</b>	<b>3,261.0</b>	<b>3,234.0</b>	<b>1,807.0</b>
<b>FINANCING DETAILS</b>					
WATER SUPPLY REPL RES	1,350.0	640.0	3,261.0	3,234.0	1,807.0
<b>Total</b>	<b>1,350.0</b>	<b>640.0</b>	<b>3,261.0</b>	<b>3,234.0</b>	<b>1,807.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1055 WTP-AUTOMATIC METER READING CONV**

Project Status	Open	Year Identified	2009
Project Type	SUPPORT SYSTEMS	Manager	Collin Hoffman
Asset Type		Est. End Date	-

**Project Description**

The project involves installation of AMI systems to transmit electricity and water consumption data from the individual meters to the utilities. An AMI system uses smart electricity and water meters that measure and record actual power and water usage at set time intervals throughout the day. The information is then transmitted wireless over a secure network to a central database, which allows for remote meter reading.

**General Comments**

Benefits to our customers include receiving monthly bills based on the actual amount of water used which would eliminate reliance on estimated usage between meter readings, help residents manage their water use and detect unusual consumption patterns which could impact their bill. An AMI system would benefit the City through more precise metering and reduced revenue losses caused by meter failure.

In order to take advantage of the many benefits of the AMI system, Saskatoon Water will accelerate its meter and communication module deployment program to be completed by 2019.

Customers who have already received their new smart meters have their meters read electronically and will receive monthly bills based on actual, not estimated, usage. As the deployment of smart meters continues, the balance of customers will be converted to the AMI system.

The project targets reducing greenhouse gas emissions and labour costs associated with manual meter reading would also be reduced. An estimated that 35 tonnes of CO<sub>2</sub>e tied to vehicle use would be reduced each year, while reductions from decreased water use are estimated at 3,300 tonnes CO<sub>2</sub>e the equivalent of removing over 685 vehicles from Saskatoon roads each year.

**Special Note**

This project is subject to a Public Notice Hearing for borrowing.

**Operating Impact**

Total capital costs are estimated at \$24.3 million and system operation costs are estimated at \$22.1 million. Over a 20-year period, the total projected savings are estimated to be \$76.1 million. The project is expected to pay for itself within 11.43 years with an internal rate of return of 11 per cent.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Automatic Meter Reading Conversion	1,000.0	2,288.0	0.0	0.0	0.0
<b>Total</b>	<b>1,000.0</b>	<b>2,288.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BORROWING	900.0	0.0	0.0	0.0	0.0
OPERATING BUDGET DOWNPAYMENT	100.0	0.0	0.0	0.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	2,288.0	0.0	0.0	0.0
<b>Total</b>	<b>1,000.0</b>	<b>2,288.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1057 PARK DEV-IND'L AREA BLVD TREE PLANTING**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Michelle Chartier
Asset Type		Est. End Date	-

**Project Description**

The Industrial Tree Planting Program involves planting 60 to 75 mm basket trees on boulevards adjacent to serviced lots in industrial areas where planting set-back requirements are met.

**General Comments**

The project involves investigating planting requests, identifying appropriate plant sites, tree planting, and three year establishment maintenance of trees in industrial areas.

**Operating Impact**

\$2,800 in 2021 (average annual life-cycle cost of 50 trees at \$56.40 per tree)

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	50.0	50.0	50.0	50.0	50.0
<b>Total</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>
<b>FINANCING DETAILS</b>					
INDUSTRIAL PARK DEVELOPMENT RES	50.0	50.0	50.0	50.0	50.0
<b>Total</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	2.8	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1083 CP-CORPORATE NETWORK EQUIPMENT REPL**

<b>Project Status</b>	Open	<b>Year Identified</b>	2010
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Robert Moncur
<b>Asset Type</b>	Network	<b>Est. End Date</b>	-

**Project Description**

This project provides for the replacement/upgrading of corporate servers for the ongoing operation of the corporate local area network, corporate Internet access and the corporate database server environment. With ongoing demand for storage, additional backup capacity is required and the replacement of aging servers that no longer meet the corporation's needs will continue.

**General Comments**

This project will enable the City to keep the client/server hardware environment operating at an acceptable level of performance and to ensure there are adequate backup facilities.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Electronic Equipment Replacement	450.0	500.0	550.0	550.0	575.0
<b>Total</b>	<b>450.0</b>	<b>500.0</b>	<b>550.0</b>	<b>550.0</b>	<b>575.0</b>
<b>FINANCING DETAILS</b>					
COMPUTER EQUIPMENT REPL RES	450.0	500.0	550.0	550.0	575.0
<b>Total</b>	<b>450.0</b>	<b>500.0</b>	<b>550.0</b>	<b>550.0</b>	<b>575.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1135 AF-CIVIC BLDGS COMPREHENSIVE MAINTAINANCE PROGRAM**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Troy LaFreniere
Asset Type	Buildings	Est. End Date	-

**Project Description**

This project involves planned expenditures from the Civic Buildings Comprehensive Maintenance Reserve for major replacements and repairs in accordance with the comprehensive maintenance program.

**General Comments**

A comprehensive maintenance program includes a preventative maintenance element and identifies a scheduled refurbishment of the major components of the facilities infrastructure. The preventative maintenance is necessary to ensure facilities are maintained to established standards. The scope of the work involves all major categories of the infrastructure (i.e. electrical, mechanical, carpentry and painting).

The facilities covered under the program are identified below:

Boards - Remail Modern, SaskTel Centre, TCU Place, River Landing, Libraries located in the Leisure Centers and various parks along the river bank.

Offices - City Hall, Civic Square East, John Deere Building and Saskatoon Police Service Building.

Pools - All indoor and outdoor pools except Shaw Centre.

Program Facilities - Vic Rempel Yards, all Fire Halls, Derrick Carrol Building, Transit Buildings, Electronics and Sign Shop, Woodlawn Cemetery, SPCA and satellite facilities.

Recreation Facilities - All Arenas, Saskatoon Field House, Forestry Farm Park & Zoo, Gordie Howe Complex, golf course club houses, as well as recreation units, washrooms and other storage buildings in those parks that do not have pools or any other water feature.

Maintenance Support - Facility management programs.

Shaw Centre & Parks with Aquatic Features - Shaw Centre, as well as recreation units, washrooms and other storage buildings in those parks that have pools or any other water feature.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Asbestos Assessment and Abatement	425.0	75.0	75.0	75.0	75.0
Boards and Agencies	1,013.0	2,871.0	2,585.0	2,578.0	2,569.0
Maintenance Support	660.0	235.0	235.0	255.0	255.0
Offices	1,074.0	939.0	1,120.0	861.0	996.0
Pools	1,981.0	2,618.0	1,830.0	1,988.0	926.0
Program Facilities	1,012.0	1,451.0	1,682.0	903.0	825.0
Recreation Facilities	1,832.0	1,832.0	1,941.0	893.0	758.0
Shaw Centre and Parks with Aquatic Features	353.0	494.0	488.0	1,090.0	1,214.0
<b>Total</b>	<b>8,350.0</b>	<b>10,515.0</b>	<b>9,956.0</b>	<b>8,643.0</b>	<b>7,618.0</b>
<b>FINANCING DETAILS</b>					
CIVIC BLDGS COMPR MTNCE	8,350.0	8,345.0	8,556.0	8,243.0	7,618.0
UNFUNDED CIVIC BLDGS COMP MNTCE	0.0	2,170.0	1,400.0	400.0	0.0
<b>Total</b>	<b>8,350.0</b>	<b>10,515.0</b>	<b>9,956.0</b>	<b>8,643.0</b>	<b>7,618.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1174 SL&P - STREET LIGHTS - LAND DEVELOPMENT**

Project Status	Open	Year Identified	2009
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Gord Stushnoff
Asset Type		Est. End Date	-

**Project Description**

This project reflects the gross costs of installing street lighting in prepaid subdivisions in Saskatoon and identifies Saskatoon Light & Power's capital reserve funding contribution.

**General Comments**

On an annual basis this project is adjusted to reflect land development plans.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Blairmore	81.0	298.0	0.0	0.0	0.0
St Ltg Aspen Ridge	332.0	559.0	0.0	0.0	0.0
St Ltg Elk Point	0.0	129.0	0.0	0.0	0.0
St Ltg Hampton Industrial	0.0	85.0	0.0	0.0	0.0
St Ltg Holmwood	171.0	350.0	0.0	0.0	0.0
Street Ltg - Neighbourhood Development	0.0	0.0	1,500.0	1,500.0	1,500.0
Street Ltg - Rosewood	7.0	80.0	0.0	0.0	0.0
Street Ltg - Silverwood Industrial	159.0	344.0	0.0	0.0	0.0
<b>Total</b>	<b>750.0</b>	<b>1,845.0</b>	<b>1,500.0</b>	<b>1,500.0</b>	<b>1,500.0</b>
<b>FINANCING DETAILS</b>					
COST RECOVERY PPD LAND DEVELOPMENT	702.0	1,740.0	1,372.0	1,372.0	1,372.0
ELECTRICAL DISTRIBUTION EXTENSION RES	48.0	105.0	128.0	128.0	128.0
<b>Total</b>	<b>750.0</b>	<b>1,845.0</b>	<b>1,500.0</b>	<b>1,500.0</b>	<b>1,500.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	126.4	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



# 1194 TR- ENGINE OVERHAUL

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Paul Bracken
Asset Type	Transit Repair shop	Est. End Date	-

## Project Description

This project involves the ongoing overhaul of transit bus engines.

## General Comments

To maintain the existing fleet 15 engine overhauls are required on an annual basis. The life expectancy of an overhauled engine is eight to nine years.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Engine Overhaul	200.0	300.0	300.0	300.0	300.0
<b>Total</b>	<b>200.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>
<b>FINANCING DETAILS</b>					
TRANSIT CAPITAL PROJECTS RESERVE	100.0	200.0	200.0	200.0	200.0
US - CAPITAL RESERVE	100.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>200.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1210 WTP - FILTER PLANT UPGRADE/EXPANSION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2014
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Larry Schultz
<b>Asset Type</b>	Water Treatment Plant	<b>Est. End Date</b>	-

**Project Description**

This project involves the design and construction of additional filtration capacity to meet the Phase 2 peak day design flow of 300 MLD identified in the 2009 Long Term Capital Development and Expansion Plan (LTCDEP).

**General Comments**

Additional filtration will be required following the clarifier construction in Project 2562 (WTP-Clarifier Construction). The LTCDEP identified increased clarifier capacity to meet the Phase 1 peak design flow of 245 MLD.

**Special Note**

This project is subject to a Public Notice Hearing for borrowing.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Filter Plant Upgrade	8,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>8,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BORROWING	5,400.0	0.0	0.0	0.0	0.0
OPERATING BUDGET DOWNPAYMENT	600.0	0.0	0.0	0.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	2,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>8,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1243 WWT- LIFT STATION UPGRADES**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Ross Elliott
Asset Type		Est. End Date	-

**Project Description**

The lift station upgrades are a continuation of work from past years. There are about 30 lift stations in the City of Saskatoon with many being decades old and in need of upgrades. The project involves some design and then construction based on a priority list of importance and need. As lift stations are a critical part of the wastewater process to prevent sewer backups, the mechanical and electrical systems must be upgraded to ensure they continue working. The control system at the WWTP has been upgraded and now the controls for each lift station must be changed to meet this new standard.

**General Comments**

Work for 2018 includes ongoing mechanical replacements, repairs and improvements for various locations in the lift station network. With appropriate technical expertise, this project could be completed in house. External service providers are currently expected to carry out the upgrades.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Lift Station Upgrades	1,110.0	1,063.0	1,622.0	1,687.0	1,738.0
<b>Total</b>	<b>1,110.0</b>	<b>1,063.0</b>	<b>1,622.0</b>	<b>1,687.0</b>	<b>1,738.0</b>
<b>FINANCING DETAILS</b>					
WASTEWATER TRTMNT CAP RES	1,110.0	1,063.0	1,622.0	1,687.0	1,738.0
<b>Total</b>	<b>1,110.0</b>	<b>1,063.0</b>	<b>1,622.0</b>	<b>1,687.0</b>	<b>1,738.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1255 SL&P - DISTRIBUTION - EQUIPMENT UPGRADE**

Project Status	Open	Year Identified	2016
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Brendan Lemke
Asset Type		Est. End Date	-

**Project Description**

This project is for the upgrade and installation of various types of electrical distribution equipment on existing underground and overhead systems. Typical equipment includes switches, capacitors, transformers, pedestals, and fault indicators. As existing distribution equipment reaches end of life and when safer equipment is available, equipment will be replaced or upgraded. Work will be coordinated with other distribution projects and priorities established based on safety implications, system performance, and other risk factors.

Installation of equipment on new line construction or voltage upgrades will be part of those specific projects. This project does not include the downtown secondary network system.

**General Comments**

With development of the SL&P communication networks and control (SCADA) systems there is opportunity to upgrade existing field devices to ones with communication capabilities that allow for remote control, monitoring, and data acquisition. This will improve the efficiency of day-to-day operations and can also reduce the safety hazards associated with equipment operation and speed restoration times in the event of outages.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
DISTRIBUTION- EQUIPMENT UPGRADE	500.0	400.0	250.0	250.0	250.0
<b>Total</b>	<b>500.0</b>	<b>400.0</b>	<b>250.0</b>	<b>250.0</b>	<b>250.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	350.0	160.0	200.0	200.0	200.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	150.0	240.0	50.0	50.0	50.0
<b>Total</b>	<b>500.0</b>	<b>400.0</b>	<b>250.0</b>	<b>250.0</b>	<b>250.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1256 SL&P - SUBSTATION UPGRADES**

Project Status	Open	Year Identified	2018
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Gavrilo Saric
Asset Type		Est. End Date	-

**Project Description**

This project is for the upgrade and renovation of electrical substations in the Saskatoon Light & Power franchise area. Upgrades may include new power transformers, electrical switchgear and breakers, high voltage switches, and upgrades to buildings and support infrastructure.

**General Comments**

Saskatoon Light & Power has 17 major substations with 36 power transformers and high voltage switches and switchgear with more than 200 breakers. These substations are the source for power delivery to all neighbourhoods in the SL&P franchise area.

Upgrades may be required due to load growth and changes in electrical usage through development and redevelopment of residential and commercial areas. Upgrades are also required to maintain optimal asset management and service reliability. Extensive condition monitoring and assessments of the equipment will be performed and the results used to schedule and prioritize upgrades. Upgrades may also be required to maintain or enhance system redundancy and contingency requirements.

The scope of this project focuses on substation power delivery components. Communications and control system upgrades will be funded through Capital Project #1301-Substation Communication Upgrade and Capital Project #1326-Substation Monitoring System Upgrade.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Substation Upgrades - Bldg & Structures	750.0	900.0	100.0	0.0	100.0
Substation Upgrades - High Voltage	0.0	550.0	400.0	400.0	200.0
Substation Upgrades - Switchgear	1,700.0	1,750.0	1,750.0	1,500.0	0.0
Substation Upgrades - Transformers	2,500.0	1,500.0	4,000.0	2,500.0	2,500.0
<b>Total</b>	<b>4,950.0</b>	<b>4,700.0</b>	<b>6,250.0</b>	<b>4,400.0</b>	<b>2,800.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	1,350.0	1,550.0	1,600.0	1,100.0	550.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	3,600.0	3,150.0	4,650.0	3,300.0	2,250.0
<b>Total</b>	<b>4,950.0</b>	<b>4,700.0</b>	<b>6,250.0</b>	<b>4,400.0</b>	<b>2,800.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1257 SL&P - SUBSTATION SECURITY IMPROVEMENTS**

Project Status	Open	Year Identified	2012
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Gavrilo Saric
Asset Type		Est. End Date	-

**Project Description**

This project provides for security improvements at SL&P facilities.

**General Comments**

Recent copper theft and vandalism incidents have occurred at SL&P substations. To combat this, video monitoring has been put in place at key and vulnerable substation facilities. Improved monitoring capabilities and monitoring at additional locations, as well as card access functions, are required for future security improvements. Other considerations to prevent copper theft include the use of a copper clad steel (which has essentially no salvage value) instead of the normal copper used in substation grounding.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
S/S - Accessories/Security/CCTV	120.0	120.0	120.0	120.0	120.0
<b>Total</b>	<b>120.0</b>	<b>120.0</b>	<b>120.0</b>	<b>120.0</b>	<b>120.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	70.0	70.0	70.0	70.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	120.0	50.0	50.0	50.0	50.0
<b>Total</b>	<b>120.0</b>	<b>120.0</b>	<b>120.0</b>	<b>120.0</b>	<b>120.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1272 SL&P - BUILDINGS & GROUNDS**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Kevin Hudson
Asset Type		Est. End Date	-

**Project Description**

This project covers the building and grounds for the Electrical Operations Centre (322 Brand Road) and the Electrical Service Centre (619 Avenue N South). Renovation and expansion is required at the Electrical Operations Centre for infrastructure improvements and to meet operational requirements. The Electrical Service Centre was leased in 2008 and renovations are required to meet the expected usage.

**General Comments**

Office layouts, washrooms, change rooms, workstations, and storage need to change to better match the present business operation and staffing levels. Heating, ventilation, electrical and other systems are in need of renewal or replacement.

The Electrical Service Centre is used for storage and training. The majority of renovations to meet the space usage requirements are now complete. The lease has been renewed with intent to review the requirements for a permanent facility. The development of the City's Civic Operations Centre will likely affect this project.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Bldgs/Grnds - Operation Centre	250.0	400.0	250.0	400.0	250.0
Bldgs/Grnds - Training Service Centre	125.0	500.0	0.0	0.0	0.0
<b>Total</b>	<b>375.0</b>	<b>900.0</b>	<b>250.0</b>	<b>400.0</b>	<b>250.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	100.0	425.0	50.0	75.0	50.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	275.0	475.0	200.0	325.0	200.0
<b>Total</b>	<b>375.0</b>	<b>900.0</b>	<b>250.0</b>	<b>400.0</b>	<b>250.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1281 SL&P - SUSTAIN POWER GENERATION OPTIONS**

Project Status	Open	Year Identified	2009
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Nathan Ziegler
Asset Type		Est. End Date	-

**Project Description**

This project investigates new power supply options for Saskatoon Light & Power. It will cover the cost of consulting services to prepare cost benefit analyses of various power supply options and green power. It also provides funding to review power generation alternatives in general. This may include coordination with electrical energy consumers to curtail excess consumption or energy returned to the electrical system by a consumer.

**General Comments**

Specific projects are expected to have joint funding from the Saskatoon Light & Power reserves and others. Other sources of funding may consist of green loans, SaskPower grants, and partnerships with other agencies which may include other corporate entities.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Investigate New Power Supply	200.0	200.0	200.0	200.0	200.0
<b>Total</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	200.0	200.0	200.0	200.0	200.0
<b>Total</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1282 SL&P - STREET LIGHTS - MITIGATION**

Project Status	Open	Year Identified	2009
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Gord Stushnoff
Asset Type		Est. End Date	-

**Project Description**

This project provides for the inspection and mitigation required for steel street light poles and related street light equipment throughout the city. Poles will be repaired when practical, otherwise they will be replaced. The scope of this project includes repairs and replacement to the concrete base and the steel pole as well as to street light controllers and deteriorated wiring.

**General Comments**

Deterioration of steel lighting poles and equipment is primarily a result of corrosion. The corrosion of particular concern is at the base of the pole where the mechanical loading is the greatest. Periodic inspections of the street lights will be performed to determine their condition. The objective will be to deal with the most serious corrosion deterioration first.

Motor vehicle incidents are also a significant cause of pole failures. Insurance money will be collected where possible in these cases.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
St. Lights - Steel Pole - Traffic Cause	620.0	620.0	630.0	630.0	630.0
St. Lights - Steel Pole Mitigation	250.0	250.0	250.0	250.0	250.0
<b>Total</b>	<b>870.0</b>	<b>870.0</b>	<b>880.0</b>	<b>880.0</b>	<b>880.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	105.0	105.0	110.0	110.0	110.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	560.0	560.0	560.0	560.0	560.0
SL&P CUSTOMER CONTRIBUTION	205.0	205.0	210.0	210.0	210.0
<b>Total</b>	<b>870.0</b>	<b>870.0</b>	<b>880.0</b>	<b>880.0</b>	<b>880.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1283 SL&P - 15KV FDR UPGRADE - RIVER CROSSING**

Project Status	Open	Year Identified	2011
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Joe Lee
Asset Type		Est. End Date	-

**Project Description**

This project is for upgrades to the 15kV overhead electric distribution line that crosses the river between the University of Saskatchewan and Queen Street just north of the University Bridge.

**General Comments**

The poles, conductors and apparatus associated with the crossing are nearing their life expectancy and need replacement. Consideration will be given to both overhead and underground replacement solutions. The project work will be coordinated with the Meewasin Valley Authority.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
14.4Kv Queen St. River Crossing	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	30.0	0.0	0.0	0.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	20.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1286 SL&P - ELEC SYS PLANNING STUDIES**

Project Status	Open	Year Identified	2014
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Kevin Hudson
Asset Type		Est. End Date	-

**Project Description**

This project will fund studies of the electrical distribution system where the services of consulting firms are required.

**General Comments**

Saskatoon Light & Power will undertake planning studies on multiple subject matters utilizing the services of consulting firms where applicable. It is expected that consulting firms will bring to SL&P experience gained from performing similar studies for other electrical utilities.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Electrical Systems Planning Studies	205.0	0.0	0.0	205.0	0.0
<b>Total</b>	<b>205.0</b>	<b>0.0</b>	<b>0.0</b>	<b>205.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	75.0	0.0	0.0	75.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	130.0	0.0	0.0	130.0	0.0
<b>Total</b>	<b>205.0</b>	<b>0.0</b>	<b>0.0</b>	<b>205.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1295 SL&P - NETWORK - MAJOR ASSETS**

Project Status	Open	Year Identified	2015
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Brendan Lemke
Asset Type		Est. End Date	-

**Project Description**

This project involves the purchase, installation, maintenance, refurbishment, and upgrade costs associated with all major assets in the electrical network, including network transformers, network protectors, and network moulded-vacuum interrupters (MVIs).

All new major assets attached to a new vault project will be budgeted and purchased through the specific new vault project.

**General Comments**

Saskatoon Light & Power currently owns and maintains approximately 50 network transformers, network protectors, and network interrupters. Future costs will include:

- Refurbishing or replacing end-of-life electrical assets
- Upgrading electrical assets with new sensor technologies

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
NETWORK - MAJOR ASSETS	350.0	300.0	0.0	300.0	400.0
<b>Total</b>	<b>350.0</b>	<b>300.0</b>	<b>0.0</b>	<b>300.0</b>	<b>400.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	50.0	50.0	0.0	50.0	50.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	300.0	250.0	0.0	250.0	350.0
<b>Total</b>	<b>350.0</b>	<b>300.0</b>	<b>0.0</b>	<b>300.0</b>	<b>400.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1296 SL&P - NETWORK - CIVIL INFRASTRUCTURE**

Project Status	Open	Year Identified	2015
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Brendan Lemke
Asset Type		Est. End Date	-

**Project Description**

This project involves the installation and maintenance of all network civil structures, including vaults, manholes, and ducts. Structural upgrades and sidewalk/street reconditioning are within the scope of this project.

All civil work attached to a new vault project will be budgeted and purchased through the specific new vault project.

**General Comments**

Saskatoon Light & Power currently owns and maintains 20 network vaults, 65 manholes, and approximately 300km of duct within the boundaries of the Central Business District. Many of these assets were first installed in 1966, and the network has since expanded to accommodate downtown development.

General deterioration of the network civil structures necessitates repair and upgrades to meet current standards and to ensure public and worker safety. All network civil structures will be inspected to determine the severity of the deterioration and to develop a schedule that prioritizes repairs. It is expected that a minimum of two vaults per year will require upgrading or major maintenance.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
NETWORK - CIVIL INFRASTRUCTURE UPGRADES	0.0	300.0	300.0	300.0	300.0
<b>Total</b>	<b>0.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	50.0	50.0	50.0	50.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	0.0	250.0	250.0	250.0	250.0
<b>Total</b>	<b>0.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1297 SL&P - NETWORK - PRIMARY LINES**

Project Status	Open	Year Identified	2015
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Brendan Lemke
Asset Type		Est. End Date	-

**Project Description**

This project involves the installation, connection, and maintenance of electrical primary feeder cables in the network system. To accommodate load growth, enhance reliability, and to assist with maintenance and scheduling in the network, a fourth feeder will be installed from both substations to each downtown vault. In addition to the additional cables, existing primary cables and cable splices will be remediated upon engineering assessment.

All new primary cables attached to a new vault project will be budgeted and purchased through the specific new vault project.

**General Comments**

The entire downtown network is powered by three primary (14.4kV) feeder cables from the Avenue C Substation and three primary feeder cables from the North Central Substation. From both substations, these cables are brought to every vault in the Central Business District.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
	1,100.0	0.0	0.0	0.0	0.0
NETWORK - PRIMARY LINES	0.0	0.0	0.0	200.0	200.0
<b>Total</b>	<b>1,100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>200.0</b>	<b>200.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	700.0	0.0	0.0	100.0	100.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	400.0	0.0	0.0	100.0	100.0
<b>Total</b>	<b>1,100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>200.0</b>	<b>200.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1298 SL&P - NETWORK - SECONDARY LINES**

Project Status	Open	Year Identified	2015
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Brendan Lemke
Asset Type		Est. End Date	-

**Project Description**

This project involves the installation, connection, and maintenance of secondary cables in the network distribution system, excluding new customer connections to the network. The scope of this project includes, but is not limited to, the sectionalizing, tying, or installing secondary switches between spot-networks, upgrades to vault and ring main bus cable, and upgrades to network services that require a higher cable capacity.

**General Comments**

The majority of the downtown core businesses and facilities are serviced by the network distribution system. The network is currently comprised of 20 vaults, with each vault containing 2-3 transformers. A spot network is a group of vaults that are connected by their secondary cables, ensuring reliable power to the customers who are also supplied from the network via secondary cables.

The existing spot-networks of the downtown network distribution system will be sectionalized. Restructuring the network system into a greater number of smaller spot-networks will lower the fault currents, provide a greater level of safety to workers and the public, and increase system reliability. Spot-networks may also be temporarily tied together, or connected by a secondary switch, in order to complete certain work.

All secondary cable work pertaining to new customers will be budgeted in a separate customer project. Existing customers that require an upgrade may be processed through this project.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
NETWORK - SECONDARY LINES	180.0	0.0	0.0	0.0	60.0
<b>Total</b>	<b>180.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>60.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	125.0	0.0	0.0	0.0	40.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	55.0	0.0	0.0	0.0	20.0
<b>Total</b>	<b>180.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>60.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1299 SL&P - NETWORK - PROTECTION & CONTROL**

Project Status	Open	Year Identified	2015
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Brendan Lemke
Asset Type		Est. End Date	-

**Project Description**

This project provides for all protective, communicative, or controlling devices for the downtown underground electrical network system. This includes control (RTU) cabinets, protector relays, fuses, cable protectors, modelling software, and all engineering design costs within the network system.

All new protective, communicative, or controlling devices attached to a new vault project will be budgeted and purchased through the specific new vault project.

**General Comments**

The downtown network distribution system requires multiple levels of protection and coordination to ensure safety and reliability. Controllers and communicative devices will be implemented in each vault in order to remotely (SCADA) monitor customer loads and vault data, and to control large assets by utilizing protective devices such as interrupters and protector relays. Each vault requires a control (RTU) cabinet to allow the operations staff to fully control and monitor the vault equipment.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
NETWORK- PROTECTION & CONTROL	520.0	0.0	0.0	520.0	260.0
<b>Total</b>	<b>520.0</b>	<b>0.0</b>	<b>0.0</b>	<b>520.0</b>	<b>260.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	360.0	0.0	0.0	360.0	180.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	160.0	0.0	0.0	160.0	80.0
<b>Total</b>	<b>520.0</b>	<b>0.0</b>	<b>0.0</b>	<b>520.0</b>	<b>260.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1301 SL&P - SUBSTATION COMMUNICATION UPGRADE**

Project Status	Open	Year Identified	2011
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Gavrilo Saric
Asset Type		Est. End Date	-

**Project Description**

This project provides for an upgrade to the communication system between remotely located substations and interrupters and the master control facility located at the Brand Road Operations Center.

**General Comments**

Existing remote terminal units at substations and at remote switches are aging. Communication difficulties and failures are occurring. The installation of wireless and fiber optic Ethernet equipment will improve communication reliability.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Elec - S/S - Station RTU Upgrade Comm	500.0	500.0	500.0	135.0	135.0
<b>Total</b>	<b>500.0</b>	<b>500.0</b>	<b>500.0</b>	<b>135.0</b>	<b>135.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	200.0	200.0	200.0	55.0	55.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	300.0	300.0	300.0	80.0	80.0
<b>Total</b>	<b>500.0</b>	<b>500.0</b>	<b>500.0</b>	<b>135.0</b>	<b>135.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1303 SL&P - AVE C FEEDER #2 - TRAFFIC BRIDGE**

Project Status	Open	Year Identified	2011
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Dave McKinna
Asset Type		Est. End Date	-

**Project Description**

This project involves changes to the electrical primary distribution lines crossing the Traffic Bridge (Avenue C Substation Feeder 2). With reconstruction of the Traffic Bridge, the feeder will need to be temporarily relocated and reinstalled once bridge construction is complete.

**General Comments**

Avenue C Feeder 2 is one of several 15 kV feeders that supplies power to the Main Street substation. This feeder is also critically important as a backup source to loads in Nutana, Buena Vista and Exhibition area. Work will be coordinated with the schedule for reconstruction of the Traffic Bridge.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Ave C - Fdr #2 - Mitigation	220.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>220.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	20.0	0.0	0.0	0.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	200.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>220.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1305 SL&P - FEEDER UPGRADES/REPLACEMENT**

Project Status	Open	Year Identified	2009
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Mehmoosh Janbakhsh
Asset Type		Est. End Date	-

**Project Description**

This project includes the upgrading, replacement, and extension of primary and secondary electrical circuits. This project is to enhance/maintain system reliability, and maintain service within the existing distribution area. The primary objective is to repair the critical deficiencies found through inspections of the existing electrical distribution system.

Excluded from the scope of this project are extensions of the distribution system for new electrical services.

**General Comments**

Distribution system line inspections will identify system assets which need major maintenance or replacement in the budget year. Additionally, work performed by other utilities such as Shaw Cable or SaskTel may provide opportunities to complete upgrades. Consequently, this project scope is general. Typical work includes pole replacements, line upgrades and underground cable replacement.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
	30.0	0.0	0.0	0.0	0.0
Feeder Upgrades Construction	1,900.0	2,000.0	2,100.0	2,200.0	2,300.0
Switching Facilities Upgrade	100.0	0.0	0.0	0.0	0.0
Telecom Upgrades	45.0	75.0	75.0	75.0	75.0
<b>Total</b>	<b>2,075.0</b>	<b>2,075.0</b>	<b>2,175.0</b>	<b>2,275.0</b>	<b>2,375.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	375.0	375.0	375.0	375.0	375.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	1,650.0	1,650.0	1,750.0	1,850.0	1,950.0
SL&P CUSTOMER CONTRIBUTION	50.0	50.0	50.0	50.0	50.0
<b>Total</b>	<b>2,075.0</b>	<b>2,075.0</b>	<b>2,175.0</b>	<b>2,275.0</b>	<b>2,375.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1308 SL&P - 15 KV CONV - INTERMED SUBSTATIONS**

Project Status	Open	Year Identified	2011
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Mehmoosh Janbakhsh
Asset Type		Est. End Date	-

**Project Description**

The objective of this project is to progressively convert the existing 4.16kV primary electric distribution to 14.4kV distribution. There are 14, 4.16kV intermediate substation service areas that supply over 30 different neighbourhoods.

This project is related to Project Number 1332 - SL&P - Substation Service Life Extension and does not include work within existing substations.

**General Comments**

Voltage conversions are a means of providing additional system capacity within the same equipment footprint. As such, the timing of voltage conversions is linked to the load growth in a specific area. Densification projects, infill development and other land use changes may have significant impact on the requirement and schedule for voltage conversions.

Timing of voltage conversions is generally driven by the combination of system load growth and the age/condition of the pole, transformer, and cable assets. Conversions are typically performed in stages and may be triggered by the addition of new large customers/loads on the electric system.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
4.16/14.4 Kv conversion	0.0	1,200.0	1,200.0	1,200.0	1,200.0
Garfield 4.16/14.4 Kv conversion	2,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>2,000.0</b>	<b>1,200.0</b>	<b>1,200.0</b>	<b>1,200.0</b>	<b>1,200.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	800.0	450.0	450.0	450.0	450.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	1,200.0	750.0	750.0	750.0	750.0
<b>Total</b>	<b>2,000.0</b>	<b>1,200.0</b>	<b>1,200.0</b>	<b>1,200.0</b>	<b>1,200.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1310 SL&P - UTILITY - RESEARCH & DEVELOPMENT**

Project Status	Open	Year Identified	2010
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Brendan Lemke
Asset Type		Est. End Date	-

**Project Description**

This project will fund Saskatoon Light & Power's participation in research and development focused on asset management for electric utilities. Activity is primarily directed through the Centre for Energy Advancement Through Technological Innovation (CEATI) International in cooperation with other electric utilities.

**General Comments**

Research is directed through the following technical areas: Distribution Line Asset Management (DLAM) and Substations Equipment Asset Management (SEAM). These groups identify and manage research and development projects that include smart grid, grounding and lightning, protection and coordination, and transmission line assets. The participants of the interest groups co-fund these projects.

Saskatoon Light & Power co-funds research and development with other Canadian, American, and international electric utilities. Some of these utilities are: SaskPower, Manitoba Hydro, Hydro One, Fortis, EpCor, Enmax, BC Hydro, Toronto Hydro, Hydro Quebec, Newfoundland Power, American Electric Power, Duke Energy, Consolidated Edison New York, and others.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
R & D Dist & Trans	90.0	90.0	90.0	90.0	90.0
R & D Station & Apparatus	65.0	55.0	55.0	55.0	55.0
<b>Total</b>	<b>155.0</b>	<b>145.0</b>	<b>145.0</b>	<b>145.0</b>	<b>145.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	155.0	145.0	145.0	145.0	145.0
<b>Total</b>	<b>155.0</b>	<b>145.0</b>	<b>145.0</b>	<b>145.0</b>	<b>145.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1316 SL&P - TRANSMIS POLE/STRUCTURE UPGRADES**

Project Status	Open	Year Identified	2009
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Brendan Lemke
Asset Type		Est. End Date	-

**Project Description**

Saskatoon Light & Power operates transmission lines at 138,000 Volts. There are four basic construction types which are wood pole, steel monopole, steel lattice tower, and underground insulated cable. This project is for repair, refurbishing, and replacement of the structural components of these lines. The typical problems are corrosion, metal failure, and insulator deterioration.

**General Comments**

The failure of a transmission line has significant consequences, impairing the ability to supply bulk power via the transmission system. While rapid deterioration of components is not expected, remedial action is required to ensure continuous reliable operation of the bulk power supply system. A variety of techniques for assessment, maintenance, and remediation of the system components will be employed.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
138 Kv Insulator Mitigation	0.0	0.0	0.0	0.0	100.0
138 Kv Transmission Foundation	240.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>240.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	0.0	0.0	0.0	20.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	240.0	0.0	0.0	0.0	80.0
<b>Total</b>	<b>240.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>100.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1326 SL&P - SUBSTATION MONITORING SYS UPGRADE**

Project Status	Open	Year Identified	2009
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Gavrilo Saric
Asset Type		Est. End Date	-

**Project Description**

This project puts in place a communication network and the supporting communication equipment for the electrical distribution system.

**General Comments**

A fiber optic communication network is being expanded to permit high speed data transmission from the electrical substation and remote equipment to the central SCADA (System Control And Data Acquisition) system. The SCADA facilities are located at the SL&P Operations Centre. The substations and certain distribution equipment report their status along with other engineering information and have remote control capability.

The scope of this project is for the provision of the fiber optic system inclusive of headend equipment and intermediate equipment.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Communication Equipment	50.0	50.0	0.0	50.0	0.0
Communication Network	100.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>150.0</b>	<b>150.0</b>	<b>100.0</b>	<b>150.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	150.0	150.0	100.0	150.0	100.0
<b>Total</b>	<b>150.0</b>	<b>150.0</b>	<b>100.0</b>	<b>150.0</b>	<b>100.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1329 SL&P - SUBSTATION RELAY UPGRADES**

Project Status	Open	Year Identified	2012
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Gavrilo Saric
Asset Type		Est. End Date	-

**Project Description**

This project involves upgrades to electrical substation protective relaying equipment. Many substations are using electromechanical relays for detection of system disturbances and operation of the protective equipment. These relays are subject to mechanical wear and degradation over time. Other substations are using microprocessor-based protective relays that have reached end of life.

This project will provide for the replacement of these relays and any associated upgrades to related substation equipment and communication systems. Periodic testing and in-service performance will be used to determine the priority for the upgrades. Work may be accelerated or delayed based on other project work planned for specific substations.

**General Comments**

The extended capabilities of microprocessor-based relays also allow for implementation of more comprehensive protection schemes resulting in better protection of personnel and equipment. These relays have metering and remote communication capabilities that can be used for additional functions. This project is part of the overall strategy for substation protection, on-line monitoring, and SCADA control.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Substation Relay Upgrades	750.0	750.0	750.0	750.0	750.0
<b>Total</b>	<b>750.0</b>	<b>750.0</b>	<b>750.0</b>	<b>750.0</b>	<b>750.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	150.0	150.0	150.0	150.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	750.0	600.0	600.0	600.0	600.0
<b>Total</b>	<b>750.0</b>	<b>750.0</b>	<b>750.0</b>	<b>750.0</b>	<b>750.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1332 SL&P - SUBSTATION SERVICE LIFE EXTENSION**

Project Status	Open	Year Identified	2009
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Gavrilo Saric
Asset Type		Est. End Date	-

**Project Description**

This project covers reliably extending the service life of existing bulk power substations and medium voltage substations. The apparatus and equipment installed in an electrical substation is expected to be in service in excess of 40 years. Major system apparatus and equipment can be expected to fail over its service life and particularly as useful/economic life is nearing its end or has been exceeded. It is unreasonable to allow such failures to compromise general system reliability. Equipment failure for similar assets is typically random, so sufficient redundancy and reliable protective equipment must be in place.

**General Comments**

Planned substation upgrades and replacements are covered by specific projects. Minor failures are covered through funding from operating budgets.

The typical work covered by this project would include but is not limited to the following:

- Repairs to power transformers which may include components such as online tap changers, bushings, seals and gaskets;
- Repairs to switchgear, communication, metering, protective equipment, etc.;
- Repairs to the substation infrastructure which may include the building and yards with the various system structures and components;
- Repairs to the utilities serving the substation which includes electrical, water, sewer, etc.

These repairs may be required at more than one substation in the budget year.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Bulk Power S/S Mitigation	500.0	150.0	150.0	150.0	150.0
Medium Voltage S/S Mitigation	0.0	150.0	150.0	150.0	150.0
<b>Total</b>	<b>500.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	50.0	50.0	50.0	50.0	50.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	450.0	250.0	250.0	250.0	250.0
<b>Total</b>	<b>500.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>	<b>300.0</b>
<b>Incremental Operating Impacts (000's)</b>					
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1353 SL&P - EQUIPMENT UPGRADE & REPLACEMENT**

Project Status	Open	Year Identified	2009
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Don McPhee
Asset Type		Est. End Date	-

**Project Description**

This project provides for the planned purchase of vehicles and equipment required for electric system construction and maintenance. Saskatoon Light & Power employs the use of various vehicles, trailers and mobile equipment for overhead and underground construction and maintenance. In addition, other equipment is necessary to support operations at the SL&P Operations Centre and the SL&P Service Centre.

The equipment covered by this project would include the following:

- Costly test equipment which may be portable or located at either the Operations Centre or Service Centre;
- Line equipment including trailers, trailers with motorized equipment, or self-propelled equipment;
- Costly motorized equipment such as front end loaders, fork lifts, sweepers, etc.;
- Vehicles - expanding the SL&P fleet (Capital funding for acquisition).

**General Comments**

This equipment is normally durable in nature. This project covers major refurbishing needed to maximize useful life. This project also covers replacement cost for the equipment directly under the control of SL&P.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Mobile Equipment	150.0	150.0	300.0	0.0	300.0
Test Equipment	185.0	185.0	185.0	185.0	185.0
Vehicles	350.0	75.0	350.0	75.0	350.0
<b>Total</b>	<b>685.0</b>	<b>410.0</b>	<b>835.0</b>	<b>260.0</b>	<b>835.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	520.0	295.0	560.0	260.0	560.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	165.0	115.0	275.0	0.0	275.0
<b>Total</b>	<b>685.0</b>	<b>410.0</b>	<b>835.0</b>	<b>260.0</b>	<b>835.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1356 AF-V&E ADD'L VEHICLES & EQUIPT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Jason Kennon
<b>Asset Type</b>	V&E vehicles	<b>Est. End Date</b>	-

**Project Description**

This project provides for the purchase of additional fleet vehicles and equipment in accordance with Section 18.1 of the Capital Reserves Bylaw #6774. These vehicles or pieces of equipment have been requested by various departments as additions to the previous years' permanently assigned complement which are required due to increased demand resulting from the City's growth and/or to provide improved service.

Bylaw #6774 also states that funds may be used to finance the purchase or construction of capital assets required to maintain the fleet.

**General Comments**

Where applicable, this project is subject to City Council's approval for the rental of the equipment in the appropriate departmental Operating Budget.

2018 The units to be purchased are as follows: (Parks Grounds Maintenance Equipment Acquisition Reserve)

1 - 11 Foot Mower \$70,000

1 - Bucket Truck \$140,000

1 - Pull Behind Sweeper \$57,000

WSM Equipment Acquisition units to be purchased are:

1 - 1 Ton truck for the roll-out cart program - \$120,000

2 - Waste collection trucks - \$820,000

1 - Front fork truck - \$380,000

2 - Buy out of side loader collection truck - \$80,000

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Parks Equipment Purchase	267.0	245.0	100.0	100.0	250.0
Snow & Ice Equipment Acquisition	0.0	400.0	400.0	330.0	0.0
Transportation & Utilities Dept General	50.0	0.0	0.0	0.0	0.0
WSM Equipment Acquisition	1,400.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,717.0</b>	<b>645.0</b>	<b>500.0</b>	<b>430.0</b>	<b>250.0</b>
<b>FINANCING DETAILS</b>					
PARKS GROUNDS MTCE EQUIP ACQ RES	267.0	245.0	100.0	100.0	250.0
SNOW & ICE MGT EQUIP ACQUISITION	0.0	400.0	400.0	330.0	0.0
TU - CAPITAL RESERVE	50.0	0.0	0.0	0.0	0.0
V & E ASSET DISP/ACQ	1,400.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,717.0</b>	<b>645.0</b>	<b>500.0</b>	<b>430.0</b>	<b>250.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1357 AF-V&E REPL'T VEHICLES & EQUIPT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Jason Kennon
<b>Asset Type</b>	V&E vehicles	<b>Est. End Date</b>	-

**Project Description**

This project involves the purchase of replacement fleet vehicles and equipment in accordance with Capital Reserves Bylaw #6774. Replacements are required as the units are experiencing unacceptable maintenance and repair costs, excessive downtime, and/or a loss in productivity, and have reached or passed their scheduled life spans.

**General Comments**

The units to be replaced will be disposed of as trades, by public auction, or by public tender. The units scheduled for replacement, within reserve funding available, are as follows:

5 - Minivan - \$135,000  
 1 - Sedan - \$20,000  
 1 - SUV's - \$25,000  
 2 - 1/4 Ton Truck - \$70,000  
 4- 1/2 Ton Van - \$140,000  
 2 - 3/4 Ton Truck - \$90,000  
 9 - 1 Ton Truck - \$542,000  
 6 - Tandem Trucks - \$1,160,000  
 2 - Garbage Trucks - \$660,000  
 2 - Boiler Trucks - \$400,000  
 1 - Vac Truck - \$400,000  
 5 - Trailers - \$73,000  
 1 - Wheel Loader - \$250,000  
 1 - Hydrovac Truck - \$200,000  
 1 - Motor Grader - \$320,000  
 1 - Excavator - \$400,000  
 3 - Compressor - \$60,000  
 5 - Sweepers - \$1,330,000  
 3 - Forklifts - \$180,000  
 20 - Police Units - \$645,000

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Equipment Purchase	7,100.0	6,700.0	6,700.0	6,800.0	7,000.0
<b>Total</b>	<b>7,100.0</b>	<b>6,700.0</b>	<b>6,700.0</b>	<b>6,800.0</b>	<b>7,000.0</b>
<b>FINANCING DETAILS</b>					
VEHICLE EQUIPMENT REPLACE RESERVE	7,100.0	6,700.0	6,700.0	6,800.0	7,000.0
<b>Total</b>	<b>7,100.0</b>	<b>6,700.0</b>	<b>6,700.0</b>	<b>6,800.0</b>	<b>7,000.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1361 AF-V&E FUEL STATIONS**

Project Status	Open	Year Identified	2010
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Jason Kennon
Asset Type		Est. End Date	-

**Project Description**

This project provides for the required replacement of the underground tanks and current vending and tracking system as well as associated electrical and lighting infrastructure.

**General Comments**

Construction of a new fueling site within City of Saskatoon downtown yards with above ground tanks which will meet fueling needs for next 20 plus years and are transportable if relocation required to new fueling site. Costs include decommissioning and reclamation of current underground tanks.

Implement a fuel management system for the City of Saskatoon to be more accountable for fuel consumption.

The City of Saskatoon currently has 13 fueling sites located in various locations around the city. Only 2 of these locations are electronically monitored and tracked, the other 11 are strictly pen and paper reconciliation.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Fuel Tank Purchases	650.0	0.0	0.0	0.0	0.0
System Implementation	570.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,220.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
V & E ASSET DISP/ACQ	1,220.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,220.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1364 CP-SERVICE SASKATOON-CITIZEN INPUT/SYSTEMS/STANDARDS/STAFFING**

Project Status	Open	Year Identified	2015
Project Type	SUPPORT SYSTEMS	Manager	Rob Gilhuly
Asset Type		Est. End Date	-

**Project Description**

Capital Projects 1364 - CP Service Saskatoon-Citizen Input/Systems/Standards/Staffing, 1829 - AF Service Saskatoon-Systems, 1942 - AF Corporate Security Plan, and 1949 - AF Service Saskatoon-Staffing Accommodation are inter-related to each other in regards accommodating the vision of the Service Saskatoon citizen service model.

Service Saskatoon is the overall strategy for the City to provide responsive and reliable services to citizens. One of the planned initiatives under the provision of personalized access is the implementation of a 311/Customer Relationship Management System. 311 is a coordinated approach to responding to citizens' phone calls and inquiries on programs and services. It is an easy-to-remember telephone number that provides citizens with simplified access to non-emergency government services. It eliminates the need for a caller to understand which department provides a service and finding a number for that service. CRM is a software application that is used to track interactions with residents on an ongoing basis and manages data and information effectively. The 311/CRM will be integrated with the digital strategy the City is currently developing.

**General Comments**

The 2018 continued costs include a variety of processes, technology and support in order to continue the transition of 200 services in Public Works to the Service Saskatoon 311/CRM model. The model consists of four key pillars:

- 1) Citizen Input - A Citizen First approach to the design and delivery of services;
- 2) Staffing - Ensure dedicated customer service staff are trained, equipped and ready to respond;
- 3) Systems - Citizens will have easy access to information including the ability to request services and track the progress from start to finish;
- 4) Standards - Commitment to deliver quality and consistent service to every citizen, every time.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Project Implementation	200.0	200.0	200.0	200.0	200.0
<b>Total</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>
<b>FINANCING DETAILS</b>					
CORPORATE CAPITAL RESERVE	200.0	200.0	200.0	200.0	200.0
<b>Total</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1391 LAND DEV'T-PARKRIDGE SUB**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the construction of municipal services on City-owned and privately owned land.

**General Comments**

Funding from the Property Realized Reserve-Fund 50 is for required maintenance in the area.

**Prior Budget Approvals**

\$9,579,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Earthfill and Enhancements	40.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>40.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PRR-LAND DEVELOPMENT	40.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>40.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1402 LAND DEV'T-WILLOWS**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the construction of municipal services on a privately owned land parcel zoned DCD4.

**General Comments**

<b>Year</b>	<b>Hectares</b>
2019	9.65

**Prior Budget Approvals**

\$233,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
2004 - A - Priv	0.0	10.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>10.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
GENERAL PPD SERV-ENGINEERING	0.0	10.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>10.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1403 LAND DEV'T-ROSEWOOD**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the construction of municipal services on City-owned and privately owned land.

**General Comments**

Prior years funding from the Property Realized Reserve is for the completion of the neighbourhood concept plan, preliminary engineering design and site grading for rubble disposal as well as utilities not provided for in land development rates and for other neighbourhood enhancements.

Year	City Lots	Private Lots	Multi Family/Commercial
2018	-	210	8.33 ha
2019	-	250	6.0 ha

**Prior Budget Approvals**

\$27,808,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
2010 - C1 - Priv (East of Rosewood Gate N.)	0.0	253.0	0.0	0.0	0.0
2011 - B2 - City (Werschner, Hasting, Rosewood Blvd & Gate)	191.0	0.0	0.0	0.0	0.0
2012 - D1 - Private (Tweed, Phelps)	103.0	342.0	0.0	0.0	0.0
2016 - F1 - Priv(Rosewood Commercial)	8.0	11.0	0.0	0.0	0.0
2017 - E1 Private (SE of Olson Lane East, S of Rosewood Blvd East)	25.0	214.0	0.0	0.0	0.0
<b>Total</b>	<b>327.0</b>	<b>820.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
GENERAL PPD SERV-ELEC-CITY	53.0	200.0	0.0	0.0	0.0
GENERAL PPD SERV-ENGINEERING	183.0	56.0	0.0	0.0	0.0
GENERAL PREPAID SVCES-ELEC-SPC	91.0	564.0	0.0	0.0	0.0
<b>Total</b>	<b>327.0</b>	<b>820.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1405 LAND DEV'T-EVERGREEN**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the construction of municipal services on City-owned land.

**General Comments**

Prior years funding from the Property Realized Reserve is for the topographical survey of the land in this proposed neighbourhood, the preliminary engineering design, other required engineering and environmental studies, preliminary design work on the neighbourhood concept plan, walkout basement grading maintenance and other enhanced services.

**Special Note**

In 2010, the project included the construction of Lowe Road from Nelson Road to the Evergreen neighbourhood.

**Prior Budget Approvals**

\$126,975,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Earthfill & Enhanced Features	135.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>135.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PRR-LAND DEVELOPMENT	135.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>135.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1407 LAND DEV'T-KENSINGTON**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project is for the construction of all municipal services on City-owned and private land for the development of the Kensington neighbourhood.

**General Comments**

Property Realized Reserve funding is for enhanced neighbourhood services, walkout basement grading, wet pond landscaping/irrigation and Kensington Village Centre streetscape design.

Year	City Lots	Private Lots
2017	-	88
2018	-	7.0 ha multi
2019	-	22

**Prior Budget Approvals**

\$62,757,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
2012 - C1 City (Kensington Blvd, LaBine, Ells)	271.0	0.0	0.0	0.0	0.0
2014 - A3 - City (Antonini, Kens Blvd, Nightingale)	372.0	1,886.0	0.0	0.0	0.0
Earth Fill & Enhanced Features	1,395.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>2,038.0</b>	<b>1,886.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
GENERAL PPD SERV-ELEC-CITY	250.0	0.0	0.0	0.0	0.0
GENERAL PPD SERV-ENGINEERING	393.0	1,638.0	0.0	0.0	0.0
GENERAL PREPAID SVCES-ELEC-SPC	0.0	248.0	0.0	0.0	0.0
PRR-LAND DEVELOPMENT	1,395.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>2,038.0</b>	<b>1,886.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1408 LAND DEV'T-AIRPORT INDUSTRIAL BUS PARK**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the construction of municipal services on private and City owned land in the Airport Industrial Business Park area including the Hampton Business Park.

**General Comments**

Prior years funding from Property Realized Reserve is for the functional engineering and conceptual design.

**Prior Budget Approvals**

\$301,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
2016 - B1 - City (South of Claypool Dr)	0.0	1,204.0	0.0	0.0	0.0
2017 - C1 - Priv (McClocklin-Dream)	112.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>112.0</b>	<b>1,204.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
GENERAL PPD SERV-ELEC-CITY	83.0	0.0	0.0	0.0	0.0
GENERAL PPD SERV-ENGINEERING	29.0	1,204.0	0.0	0.0	0.0
<b>Total</b>	<b>112.0</b>	<b>1,204.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1409 LAND DEV'T-NORTH DOWNTOWN**

Project Status	Open	Year Identified	2011
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Eric Westberg
Asset Type		Est. End Date	-

**Project Description**

This project is for the development of a master plan for the land North of 25th Street.

**General Comments**

Future planning and implementation of the redevelopment is planned over a 30-year period. Phasing is to be coordinated with project 1584 - Civic Operations Centre for the City Yards construction. The Civic Operations Centre is included in the Civic Facilities funding plan and the project will only proceed as funds are available.

**Prior Budget Approvals**

\$1,960,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Functional Design	0.0	500.0	500.0	6,900.0	100.0
<b>Total</b>	<b>0.0</b>	<b>500.0</b>	<b>500.0</b>	<b>6,900.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	500.0	500.0	6,900.0	100.0
<b>Total</b>	<b>0.0</b>	<b>500.0</b>	<b>500.0</b>	<b>6,900.0</b>	<b>100.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1410 LAND DEV'T-ELK POINT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2011
<b>Project Type</b>	PREPAID LAND DEVELOPMENT	<b>Manager</b>	Daryl Schmidt
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project involves the construction of municipal services on City-owned and privately owned land for the development of the Elk Point neighbourhood.

**General Comments**

Prior years Property Realized Reserve funding is for the topographical survey of the land in this proposed neighbourhood, the preliminary engineering design, other required engineering and environmental studies, preliminary design work on the neighbourhood concept plan. Current Property Realize Reserve funding is for maintenance of land.

**Prior Budget Approvals**

\$30,796,000

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Earthfill and Enhanced Services	15.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>15.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PRR-LAND DEVELOPMENT	15.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>15.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1411 LAND DEV'T- ASPEN RIDGE**

Project Status	Open	Year Identified	2011
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project is for the development of City-owned and privately owned residential land within the Aspen Ridge neighbourhood.

**General Comments**

Development in 2017 is for municipal services on City-owned residential land including 10 parcels.

Funding from the Property Realized Reserve-Fund 50 is for the cost of relocating of telephone lines, a 25kv powerline and moving a 138kv power line.

Year	City Lots	Private Lots	
2016	371	-	West of McOrmond
2017	11	-	Parcels Adjacent to McOrmond
2018	261	-	Lots & 7 parcels East of McOrmond
2019	307	61	Lots & 3 parcels (East of McOrmond & adjacent to Woolf bend)

**Prior Budget Approvals**

\$55,811,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
2014 - B1 - City	118.0	1,284.0	0.0	0.0	0.0
2014 - B2 - City	30.0	7,324.0	0.0	0.0	0.0
2015 - D1 - City	657.0	9,309.0	0.0	0.0	0.0
2015 - D2 - City	265.0	5,283.0	0.0	0.0	0.0
Earthfill and Enhanced Services	3,901.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>4,971.0</b>	<b>23,200.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
GENERAL PPD SERV-ELEC-CITY	63.0	491.0	0.0	0.0	0.0
GENERAL PPD SERV-ENGINEERING	60.0	21,340.0	0.0	0.0	0.0
GENERAL PREPAID SVCES-ELEC-SPC	55.0	1,341.0	0.0	0.0	0.0
PRR-LAND DEVELOPMENT	4,793.0	28.0	0.0	0.0	0.0
<b>Total</b>	<b>4,971.0</b>	<b>23,200.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1416 LAND DEV'T-TR SWR-HAMPTON VILLAGE**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the extension of the trunk sewers and pond requirements to the proposed Hampton Village neighbourhood.

**General Comments**

SECTION *	LENGTH (m)	SIZE (mm)	YEAR(s)	
AB Forcemain phase II	-	-	2004/06/07	Req'd for residential phase
C Stormwater Storage	-	-	2002/04	Req'd for residential phase
Basin II D Stormwater Storage	-	-	2005	Req'd for residential phase II
Basin D Lift Station	-	-	2019	Req'd for Industrial
E Stormwater Basin	-	-	2012	Req'd for residential phase
E Lift Station II	3,650	350	2004/06	Req'd for residential phase
DE San Trunk	1,500	300/450	2008	Kingsmere lift to Lakewood Lift Station
E Lift Station Stage II	-	-	2004	Req'd for suburban Ctr east
EF Forcemain	4,500	300	2019	Req'd for Industrial
F'G Sanitary Trunk	790	675	2015	
F'F	340	675	2020	
H Dundonald Pond	-	-	2004/05	Req'd for residential phase
AB Sanitary Trunk	110	600	2004/07	Req'd for residential phase
CD Storm Trunk	900	1050	2004/05	Req'd for residential phase
EI Storm Trunk	500	525	2012	Req'd for residential phase
Abandon Lift Station	-	-	2005	
F- Stormwater Basin	-	-	2018/19	Req'd for Industrial
FG- Storm Trunk Outlet	1,500	900	2019	St. piping req'd for Industrial

The general PPD-Services-Eng Reserve is used as an interim source of funding and will be reimbursed in future years.

\* A map indicating the location of the trunk sections, stormwater storage basins, and lift stations are available from Transportation and Utilities Department upon request.

**Prior Budget Approvals**

\$11,663,000

**Special Note**

A share of the costs will be covered through the flood protection program in project 1678 in 2015 as detailed below:

D Lift Station - \$275,000

EF- Forcemain - \$105,000

FG- Sanitary Trunk - \$84,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
FG - Stm Trunk - Industrial (Pond to Circle)	0.0	1,660.0	0.0	0.0	0.0
F'G/FF' -Sanitary Trunk (NS) Hampton to Blairmore Lift	0.0	0.0	728.0	0.0	0.0
Force Main EF-Hampton-58th St-Industrial	0.0	15,820.0	0.0	0.0	0.0
Lift Station D - Industrial	0.0	4,239.0	0.0	0.0	0.0
Pond F - Hampton Industrial	400.0	2,780.0	0.0	0.0	0.0
<b>Total</b>	<b>400.0</b>	<b>24,499.0</b>	<b>728.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PRIVATE CONTRIBUTIONS	150.0	12,158.0	(1,231.0)	(1,231.0)	(1,231.0)
PROPERTY REALIZED RES	150.0	12,158.0	(1,231.0)	(1,231.0)	(1,231.0)
TRUNK SEWER RESERVE	100.0	256.0	2,758.0	2,030.0	2,030.0
WASTEWATER LIFT STATION RES	0.0	(73.0)	432.0	432.0	432.0
<b>Total</b>	<b>400.0</b>	<b>24,499.0</b>	<b>728.0</b>	<b>0.0</b>	<b>0.0</b>



## Land Development

Approved 2018

Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1417 LAND DEV'T-TR SWR-BLAIRMORE**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the extension of the trunk sewers to the proposed west sector.

**General Comments**

Details for servicing some parts of Blairmore have not been finalized. As a result, it is expected that the servicing scheme may be altered.

SECTION *	LENGTH (m)	SIZE (mm)	YEAR(s)	
A- Lift Station- Suburban Area	-	-	2005/2007	
AC- Forcemain-Lift Station A to trunk CD	575	250	2005	
CC'- Forcemain-Temp to Confed Drive	2,540	250	2005	
A- Pond	-	-	2005	
AA'- Storm-Pond A to McCormack	325	600	2005	
AB- Trunk-dalmeny rd/22nd to Dalmeny Lift	50	1,500	2005	
H- Lift Station-Blairmore Neighbourhood 1	-	-	2009/2010	
HI- Forcemain-Lift Stn to Marquis Trunk	-	-	2010/2011	
F- Pond 1 Blairmore Neighbourhood 1	-	-	2011	
FG/GH/HI Sani (EW) Yarrow	1,064	900/1,050/675	-	
C'D/DE/EF Sani. (NS) Yarrow to S. of pond 4	1,405	900	2013	
AB - Storm Trunk Outlet Pond 1 to Diefenbaker	-	600/675	2011	
CD- Trunk Sanitary (NS) N of Pond 3 to 22nd St	1,200	600/675	2013-2016	
EF/FG/GH-St. Trunks (EW) Pond 1 to N of Yarrow	1,168	750-1,500	2011-2014	
CD-NS-Storm Trunks-Pond 2 to Pond 3&4	457	1,050	2013	
AC-EW-St Trunk- Pond 3 to Steeves Ave.	580	750	2013	
Pond 2- S of Yarrow	-	-	2014/2015	
Pond 3 & 4 Central Kensington	-	-	2013-2015	
Blairmore Pond 2 & Piping	-	-	2015	
CC' Sani Trunk	-	-	2013-2015	
AB- Storm Trunk- Pond 2 to Trail	468	1350	2020	
CE - Strom Pipe	450	900	Beyond 2022	
Pond 3 (2.2 ha)	-	-	Beyond 2022	
AB - Kensington to Blairmore San	850	600	2020	Req'd for Blairmore 3
WestSwale Stormwater Mgt feasibility study	-	-	2017/2018	Req'd for future BM Nbrhds

The general PPD-Services-Eng Reserve is used as an interim source of funding and will be reimbursed in future years.

\* A map indicating the location of the trunk sections, stormwater storage basins, and lift stations are available from Transportation and Utilities Department upon request.

**Special Note**

A share of the costs were previously covered through the Flood Protection Program in project 1678 as detailed below:

H Lift Station - \$1,026,000

HI- Forcemain - \$2,694,000

A share of the costs will be covered through the Flood Protection Program in project 1678 in the future as detailed below:

C'C- Sanitary Trunk (NS) S of Pond 4 to 22nd - \$321,000

**Prior Budget Approvals**

\$57,405,000

## Land Development

Approved 2018

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
AB -San Trunk - Kensington Blvd to Blairmore 3	0.0	0.0	1,873.0	0.0	0.0
Elk Point - AB Storm Pond - Pnd 2 to Trail	0.0	0.0	1,309.0	0.0	0.0
Elk Point - Pond 1 & 2	0.0	0.0	4,200.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>7,382.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
TRUNK SEWER RESERVE	0.0	0.0	7,382.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>7,382.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1418 LAND DEV'T-TR SWR - HOLMWOOD**

Project Status	Open	Year Identified	2012
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the extension of the trunk sewers from the intersection of Highway 5 and McOrmond Drive south, east, and west into the the east suburban development area to facilitate approximately 2,717 hectares of staged development including approximately nine future neighbourhoods.

**General Comments**

SECTION *	LENGTH (m)	SIZE (mm)	YEAR(s)	
BCD Sani- Hwy 5 to end Intersection	1,134	1,200	2014	Req'd for 1st neighbourhood - Phase 1
BC Storm- Hwy 5 to 2nd Intersection	1,093	1,500/1,200	2014	Req'd for 1st neighbourhood - Phase 1
CD Storm- EW Piping to Pond 1	1,730	1,200/1,800	2013	Req'd for 1st neighbourhood - Phase 3
D- Pond 1	-	-	2014	Total size of 15ha - Req'd for 1st nbhd phase 1
CC'-San-EW of McOrmond Dr	1,386	600/375	2013/14	Req'd for 1st neighbourhood - Phase 1
DD'E-Sani 2nd Intersection to 8th St.	2,050	900/375	2019	Req'd for 1st neighbourhood - Phase 2
CE-Storm 2nd Intersection to 8th St.	1,500	2,100	2019	Req'd for 1st neighbourhood
EF Storm	1,040	2,100	2022	Req'd for 2nd neighbourhood
EF Sanitary	1,040	750	2022	Req'd for 3rd neighbourhood
FG Sanitary	940	525	Beyond 2022	
EE' Sanitary	798	450	2021	Req'd for 3rd neighbourhood
EG Sanitary	2,350	450	Beyond 2022	

**Prior Budget Approvals**

\$14,843,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
CE - Stm - Brighton Common to 8th Street	0.0	16,617.0	0.0	0.0	0.0
DD'E - San - Brighton Common to 8th Street	50.0	6,593.0	0.0	0.0	0.0
EF - San - 8th Street to Zimmerman	0.0	0.0	0.0	0.0	3,087.0
EF - Storm - 8th Street to Zimmerman	0.0	0.0	0.0	50.0	14,402.0
<b>Total</b>	<b>50.0</b>	<b>23,210.0</b>	<b>0.0</b>	<b>50.0</b>	<b>17,489.0</b>
<b>FINANCING DETAILS</b>					
TRUNK SEWER RESERVE	50.0	23,210.0	0.0	50.0	17,489.0
<b>Total</b>	<b>50.0</b>	<b>23,210.0</b>	<b>0.0</b>	<b>50.0</b>	<b>17,489.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1419 LAND DEV'T - BRIGHTON**

<b>Project Status</b>	Open	<b>Year Identified</b>	2014
<b>Project Type</b>	PREPAID LAND DEVELOPMENT	<b>Manager</b>	Daryl Schmidt
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project is for the City's portion of residential municipal services on privately developed land within the Brighton Neighbourhood. Also included, is the municipal servicing of the second phase of Brighton.

**General Comments**

Prior years funding from the Property Realized Reserve- Fund 50 is for the cost of fill removal from the pond site and clearing of the site.

<b>Year</b>	<b>City Lots</b>	<b>Private Lots</b>
2017	-	243 & 5 parcels
2018	-	580 & 2 parcels
2019	-	393 & 4 parcels

**Prior Budget Approvals**

\$12,943,000

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
2014 - A1 - Private	62.0	0.0	0.0	0.0	0.0
2015 - B1 - Private (S of Hwy 5)	2,470.0	0.0	0.0	0.0	0.0
2016 - C1 - Private (E of CPR)	0.0	1,679.0	0.0	0.0	0.0
2016 - D1 - City	1,260.0	6,189.0	0.0	0.0	0.0
<b>Total</b>	<b>3,792.0</b>	<b>7,868.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
GENERAL PPD SERV-ELEC-CITY	911.0	559.0	0.0	0.0	0.0
GENERAL PPD SERV-ENGINEERING	1,512.0	5,860.0	0.0	0.0	0.0
GENERAL PREPAID SVCES-ELEC-SPC	1,369.0	1,449.0	0.0	0.0	0.0
<b>Total</b>	<b>3,792.0</b>	<b>7,868.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1435 LAND DEV'T -PRIMARY WATER MAINS -NORTH INDUSTRIAL**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the extension of primary water mains (WM) to the North Industrial Area and Agriplace. It will allow additional industrial development and will increase system reliability.

**General Comments**

The current design is for 1,600mm water main. Preliminary findings of a study currently being completed by Utility Services indicate that upsizing the primary water main to 900mm could enable the City to significantly defer the construction of the future North Industrial reservoir. If it is resolved to upsize this primary water main, a new budget and funding strategy will be developed for this project.

SECTION	LENGTH (m)	SIZE (mm)	YEAR(s)	
AB	3,400	600	2011	Required for Phase 1 Marquis Industrial
BC	855	600	2009	Req'd for Ph 1 Marquis Ind. including repurchase of 750mm Sask WM
C'D	1,000	600	2012	Required for Phase 2 Marquis Ind.
DE	887	600	2020	Required for Phase 2 Marquis Ind.
IJ	830	900	2019	Required for Area North of Marquis 11.
EF	830	600	2021	Required for completion of Marquis Ind.
FG	600	600	Beyond 2021	Required for area West of Hwy 11
J'J"	1,200	900	2021	Required for area E of Wanuskewin & CNR
J'J1	-	-	Beyond 2022	Required for area East of Wanuskewin
HI*	800	750	2014/16/17	Along Arthur Rose Ave. North of 71st

\* Includes a reimbursement to SaskWater

Related Project:

Project 713 (Water Reservoir Pumping Capacity) provided for a pump house and installation of additional pumps at the 42nd St. Reservoir to help handle the requirements for this watermain network.

**Prior Budget Approvals**

\$7,884,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
DE - Marquis to 71st	0.0	1,400.0	0.0	0.0	0.0
EF - 71st St - West of Millar to Idylwyld	0.0	0.0	0.0	1,503.0	0.0
FG - Hwy 11 - 71st to Hwy 12	0.0	0.0	0.0	0.0	4,535.0
IJ - 81st - North Quarter	0.0	2,208.0	0.0	0.0	0.0
J'J" - East Wanuskewin + East CNR	0.0	0.0	0.0	3,187.0	0.0
<b>Total</b>	<b>0.0</b>	<b>3,608.0</b>	<b>0.0</b>	<b>4,690.0</b>	<b>4,535.0</b>
<b>FINANCING DETAILS</b>					
PRIMARY WATERMAIN RES	0.0	3,608.0	0.0	4,690.0	4,535.0
<b>Total</b>	<b>0.0</b>	<b>3,608.0</b>	<b>0.0</b>	<b>4,690.0</b>	<b>4,535.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1436 LAND DEV'T-BLAIRMORE PRIMARY WATER MAINS**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the extension of primary water mains to the proposed Hampton Village Neighbourhood and the future West Sector Suburban Development area. Upgrades to fill-mains due to future growth will be required in 2019 and 2020. The unfunded portion of these years will be cost shared between Saskatoon Water and future development levies, which will be identified in a future Administrative report.

**General Comments**

This project is subject to the approval of the overall neighbourhood concept plan.

SECTION	LENGTH (m)	SIZE (mm)	YEAR(s)	
AB	600	600	2005	Required for Hampton Village
BC	1,800	600	2012	Required for Hampton Village
CD'	1,600	600	2013	Required for Hampton Village
D'E	1,600	600	2014	Required for Kensington
EE'	1,200	600	2019	Required for Blairmore
E'F	1,200	600	2019	Required for Blairmore
FG	1,200	600	2020	Required for Blairmore
GH	1,650	600	2022	Required for Blairmore
KL	4,230	1,050	2019/2020	Required for System Upgrade/Future Growth

Additional segments will be added to this project in the future for future Blairmore Sector neighborhoods.

**Prior Budget Approvals**

\$6,905,000

**Special Note**

This project is subject to a Public Notice Hearing for borrowing.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
EF - Neault Rd - 33rd to 22nd	2,147.0	2,147.0	0.0	0.0	0.0
FG- Hwy 7 - 22nd to CNR	0.0	0.0	2,173.0	0.0	0.0
GH - CNR - Hwy 7 to RR3063	0.0	0.0	0.0	0.0	2,988.0
KLI - Fillmain Treatment Plant - 22nd/Circle	200.0	15,900.0	15,683.0	0.0	0.0
<b>Total</b>	<b>2,347.0</b>	<b>18,047.0</b>	<b>17,856.0</b>	<b>0.0</b>	<b>2,988.0</b>
<b>FINANCING DETAILS</b>					
BORROWING	0.0	7,020.0	7,301.0	0.0	0.0
OPERATING BUDGET DOWNPAYMENT	0.0	780.0	811.0	0.0	0.0
PRIMARY WATERMAIN RES	2,147.0	2,147.0	2,173.0	0.0	2,988.0
UNFUNDED MAJOR PROJECTS	0.0	8,100.0	7,571.0	0.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	200.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>2,347.0</b>	<b>18,047.0</b>	<b>17,856.0</b>	<b>0.0</b>	<b>2,988.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1437 LAND DEV'T-PRIMARY WATER MAINS - HOLMWOOD SECTOR**

Project Status	Open	Year Identified	2012
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project is for the construction of primary Watermain within the East Sector. These primaries will facilitate approximately 1,200 hectares of staged development in the East Sector in the near future. In the long term these primaries will also facilitate approximately 1,800 hectares of development in the East Sector.

**General Comments**

Notes: Primary water mains required for any given neighbourhood may also be required for subsequent neighbourhoods.

**SECTION LENGTH (m) SIZE (mm) YEAR(s)**

BCD	1,141	1,050	2013	Required for 1st Neighbourhood
DE	1,500	1,050	2019	Required for 2nd Neighbourhood
EF	1,040	1,050	2022	Required for 3rd Neighbourhood
FG	1,000	1,050	Beyond 2022	Required for 3rd Neighbourhood

**Prior Budget Approvals**

\$3,435,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
DE - McOrmond - 2nd Round-About to 8th Street	0.0	4,628.0	0.0	0.0	0.0
EF - McOrmond - 8th St to Sec 20	0.0	0.0	0.0	0.0	3,209.0
<b>Total</b>	<b>0.0</b>	<b>4,628.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3,209.0</b>
<b>FINANCING DETAILS</b>					
PRIMARY WATERMAIN RES	0.0	4,628.0	0.0	0.0	3,209.0
<b>Total</b>	<b>0.0</b>	<b>4,628.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3,209.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



# 1456 TU-RAILWAY CROSSING SAFETY IMPROVEMENTS

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Goran Lazic
Asset Type		Est. End Date	-

## Project Description

This project provides funding for the installation of railway crossing improvements undertaken by Canadian National and Canadian Pacific Railways at level crossings within City limits. Under the current funding agreement with Transport Canada and Pacific Railways, each party is responsible for a percentage of the costs associated with safety upgrades done at level crossings (gates and automated warning systems).

## General Comments

Crossing improvements are typically mandated by Transport Canada through the issuance of a 'Notice of Order' and as such the City is required to participate in funding a portion of the improvement. This program also includes an annual inspection program for signage, independent safety inspections required for whistle cessation requests and the installation of an uninterruptible power supply at various locations. It should also be noted that changing regulations by Transport Canada have resulted in increased funding requirements as the warrant system for railway gate installations has changed.

The following are the City's requirements under Transport Canada's new grade crossing regulations: a) road authorities and railway companies will be required to share critical information with each other by November 2016 in relation to the railway crossings under the City's jurisdiction; b) road authorities will be required to meet the safety standard at their existing railway crossings by November 2021; c) the Regulations apply to both the private and public crossings; d) grade crossing improvements may be eligible for federal funding and road authorities can apply for a grant before undertaking the work; and, e) under the Railway Safety Act, road authorities can be held liable and/or found guilty of an offense if they fail to meet the new Regulations.

Work planned for 2018 includes the following:

- 1) Completion of 2017 projects
- 2) Remediation of safety deficiencies identified in the 2017 Rail Safety Program

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
CONSTRUCTION	150.0	200.0	200.0	200.0	100.0
<b>Total</b>	<b>150.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
TRAFFIC SAFETY RESERVE	150.0	150.0	200.0	200.0	100.0
UNFUNDED TRAFFIC SAFETY RES	0.0	50.0	0.0	0.0	0.0
<b>Total</b>	<b>150.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>100.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1458 LAND DEV'T-ART RD-CLAYPOOL DR (DALMNY-AIRPRT DR)**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project is for the construction of an arterial roadway between Neault Road and Airport Drive.

**General Comments**

The construction in 2005 was for the initial two lanes of an ultimate four lane roadway extending along the North perimeter of the neighbourhood between McClocklin Road and Airport Drive. The remaining roadway constructed in the future will be a four lane roadway from Neault Road to McClocklin Road and will be subject to the development of the Blairmore area and the adjacent Industrial Lands.

Note: The 2020 budget is being funded by private development (29%), Property Realized Reserve (21%) and the Arterial Road Reserve (50%).

**Prior Budget Approvals**

\$11,254,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Hampton Gate North to Hughes Drive	0.0	0.0	6,665.0	0.0	0.0
Hughes Drive to Neault Road	0.0	0.0	6,665.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>13,330.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ARTERIAL ROAD RESERVE	0.0	0.0	6,665.0	0.0	0.0
PRIVATE CONTRIBUTIONS	0.0	0.0	3,810.0	0.0	0.0
PROPERTY REALIZED RES	0.0	0.0	2,855.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>13,330.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1460 LAND DEV'T-ARTL RD-NEAULT RDWY (22ND-SEC 2)**

Project Status	Open	Year Identified	2012
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the design and construction of the Neault Roadway from 22nd Street to Section 2, Township 37. This roadway will provide access to 22nd Street and the neighbourhoods North of 22nd Street in the Blairmore Sector.

**General Comments**

Construction of the portion from 33rd Street to Claypool Drive will depend on the build-out of Kensington.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
22nd Street - Kensington Gate W	0.0	0.0	5,308.0	0.0	0.0
33rd Street - Claypool Drive	0.0	0.0	3,429.0	0.0	0.0
Kensington Gate W - 33rd Street	0.0	4,504.0	0.0	0.0	4,104.0
<b>Total</b>	<b>0.0</b>	<b>4,504.0</b>	<b>8,737.0</b>	<b>0.0</b>	<b>4,104.0</b>
<b>FINANCING DETAILS</b>					
ARTERIAL ROAD RESERVE	0.0	4,504.0	8,737.0	0.0	4,104.0
<b>Total</b>	<b>0.0</b>	<b>4,504.0</b>	<b>8,737.0</b>	<b>0.0</b>	<b>4,104.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1464 LAND DEV'T-ART RD-FEDORUK DRIVE**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project is for the design and construction of Fedoruk Drive from Central Avenue to McOrmond Drive.

**General Comments**

Fedoruk Drive is a main East/West arterial roadway within the University Heights area.

The project included grading to accommodate the relocation of a 138kV power line.

**Prior Budget Approvals**

\$7,257,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Central to Konihowski	0.0	0.0	3,270.0	0.0	0.0
Konihowski/Lowe Rd	0.0	0.0	1,309.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>4,579.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ARTERIAL ROAD RESERVE	0.0	0.0	4,579.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>4,579.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1466 LAND DEV'T-ART RD - WANUSKEWIN RD**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project includes the design and construction of Wanuskewin Road from 51st Street to North of SE 1/4 Sec. 27 as well as traffic noise attenuation measures from 51st Street to Adilman Drive and on Lenore Drive from Wanuskewin Road to Russell Road.

**General Comments**

Construction of the 51st Street roadway and noise attenuation began in 2009.

**Prior Budget Approvals**

\$3,724,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
71st Street to North of SE 1/4 Sec. 27	3,298.0	0.0	3,005.0	0.0	0.0
<b>Total</b>	<b>3,298.0</b>	<b>0.0</b>	<b>3,005.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ARTERIAL ROAD RESERVE	3,298.0	0.0	3,005.0	0.0	0.0
<b>Total</b>	<b>3,298.0</b>	<b>0.0</b>	<b>3,005.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1467 LAND DEV'T-ART RD - 33RD ST (HUGHES-NEAULT RD)**

Project Status	Open	Year Identified	2012
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the design and construction of 33rd Street from Hughes Avenue to Neault Road. This roadway will provide access to Neault Road and the initial Blairmore neighbourhoods.

**General Comments**

The construction of the arterial roadway accessing the Blairmore neighbourhoods began in 2012.

**Prior Budget Approvals**

\$5,179,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Kensington Entrance to Dalmeny Rd.	4,952.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>4,952.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ARTERIAL ROAD RESERVE	4,952.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>4,952.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1468 LAND DEV'T-ART RD - 8TH STREET EAST**

Project Status	Open	Year Identified	2014
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project is for staged construction of the 8th Street East arterial roadway between McOrmond Drive and the planned Canadian Pacific Railway overpass to serve the Brighton neighbourhood.

**General Comments**

Construction of the initial phase of the arterial roadway serving the Brighton neighbourhood is expected to begin in 2020.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
CPR Overpass to RR #3045	0.0	0.0	4,586.0	0.0	0.0
RR #3045 to McOrmond Drive	0.0	0.0	0.0	3,332.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>4,586.0</b>	<b>3,332.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ARTERIAL ROAD RESERVE	0.0	0.0	4,586.0	3,332.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>4,586.0</b>	<b>3,332.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1474 LAND DEV'T-ESTIMATED FUTURE DIRECT SERVICING PROJECTS**

Project Status	Open	Year Identified	2014
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the costs for Future Direct Servicing Projects.

**General Comments**

The costs identified in the plan for 2020 to 2022 are estimated and will be adjusted to actual projects in future budgets.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Future Direct Servicing	0.0	0.0	58,101.0	51,832.0	43,600.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>58,101.0</b>	<b>51,832.0</b>	<b>43,600.0</b>
<b>FINANCING DETAILS</b>					
GENERAL PPD SERV-ENGINEERING	0.0	0.0	58,101.0	51,832.0	43,600.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>58,101.0</b>	<b>51,832.0</b>	<b>43,600.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1475 US-AUTO'D GARBAGE CONTAINER REPL**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Michelle Jelinski
<b>Asset Type</b>	Garbage Collection Containers	<b>Est. End Date</b>	-

**Project Description**

This project involves the provision of new or replacement roll-out garbage carts used for automated waste collection.

**General Comments**

Each year approximately 5,000 garbage containers require replacement and approximately 1,500 additional containers are required to service new households.

<b>Project Detail Expenditure/Funding (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
<b>GROSS COST DETAILS</b>					
Equipment Purchase	371.0	384.0	398.0	413.0	429.0
<b>Total</b>	<b>371.0</b>	<b>384.0</b>	<b>398.0</b>	<b>413.0</b>	<b>429.0</b>
<b>FINANCING DETAILS</b>					
AUTO GARBAGE CONTAINER REPL RES	371.0	384.0	398.0	413.0	429.0
<b>Total</b>	<b>371.0</b>	<b>384.0</b>	<b>398.0</b>	<b>413.0</b>	<b>429.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1493 TU-EAST RIVERBANK STABILIZATION**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Lowell Reinhart
Asset Type		Est. End Date	-

**Project Description**

The project provides for slope monitoring and instrumentation of the City's east riverbank sites and the rehabilitation of slope failures. Sites include sections of riverbank land or City-owned land and do not include private property

**General Comments**

Riverbank monitoring and inspections are conducted annually to support the asset management plan for the City's east riverbank, along the Meewasin conservation area, up to and including some City streets. Remediation projects for preservation and stabilization are implemented as required.

Depending on results of assessments during the second half of 2017, the section of City-owned land along the riverbank between East Lake Avenue and 17th Street may require remediation of sub-drainage to reduce the risk of damage to City-owned infrastructure. A projected annual budget for east riverbank stabilization will ensure that funding is available for unexpected emergency repairs.

External service providers are intended to be used for riverbank site assessments and monitoring.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Subdrain Monitoring & Instrumentation System	100.0	102.0	104.0	106.0	108.0
Subdrain Preservation & Slope Stabilization	960.0	979.0	999.0	1,019.0	172.0
<b>Total</b>	<b>1,060.0</b>	<b>1,081.0</b>	<b>1,103.0</b>	<b>1,125.0</b>	<b>280.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES - STORM WATER	1,060.0	1,081.0	1,103.0	1,125.0	280.0
<b>Total</b>	<b>1,060.0</b>	<b>1,081.0</b>	<b>1,103.0</b>	<b>1,125.0</b>	<b>280.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1504 TU- NEIGH.TRAFFIC REVIEW PERMANENT INSTALLATIONS**

Project Status	Open	Year Identified	2015
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Shirley Matt
Asset Type		Est. End Date	-

**Project Description**

This project permanently constructs the traffic calming devices installed temporarily through the neighbourhood traffic review process.

**General Comments**

Traffic calming devices such as curb extensions, median islands, pinch-points, etc. will be funded from this project.

Details on the program proposed for the budget year will be presented in an administrative report prior to, or concurrent with Council budget meeting.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction & Design	265.0	560.0	560.0	560.0	560.0
<b>Total</b>	<b>265.0</b>	<b>560.0</b>	<b>560.0</b>	<b>560.0</b>	<b>560.0</b>
<b>FINANCING DETAILS</b>					
TRAFFIC SAFETY RESERVE	265.0	140.0	225.0	280.0	320.0
UNFUNDED TRAFFIC SAFETY RES	0.0	420.0	335.0	280.0	240.0
<b>Total</b>	<b>265.0</b>	<b>560.0</b>	<b>560.0</b>	<b>560.0</b>	<b>560.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1505 TU-TRAFFIC SIGNAL INFRASTRUCTURE UPGRADES**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Goran Lazic
Asset Type		Est. End Date	-

**Project Description**

This project involves essential maintenance of the City's traffic signal system and life cycle replacement of major electronic and hardware components.

**General Comments**

The City currently has 275 signalized intersections, of which many are under centralized computer control. There is a need to continually upgrade the aging infrastructure in order to maintain safe and reliable traffic signal operations.

High priority has been given to replacement of major hardware components, such as traffic controllers, conflict monitors, signal heads, poles and communications cables. This funding is critical for essential intersection repairs and upgrades, including underground conduit/cable replacement, communications network expansion, vehicle detector repairs, incorporation of non-intrusive detection, replacement of older cabinets and electronics as required.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	375.0	375.0	375.0	375.0	300.0
<b>Total</b>	<b>375.0</b>	<b>375.0</b>	<b>375.0</b>	<b>375.0</b>	<b>300.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-TRANSPORTATION	375.0	375.0	375.0	375.0	300.0
<b>Total</b>	<b>375.0</b>	<b>375.0</b>	<b>375.0</b>	<b>375.0</b>	<b>300.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1506 TU-TRAFFIC SIGNING REPLACE-INFRA**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Cory Funk
Asset Type		Est. End Date	-

**Project Description**

This project involves the upgrade and rehabilitation of the City's traffic signs.

**General Comments**

This program will develop and implement the following programs on an annual basis:

- 1) Stop and yield sign program: review, inspect and replace stop and yield signs to ensure that all signs meet standards
- 2) Arterial roadway sign program: review, assess, and replace the City's regulatory and warning signs on major arterial roads
- 3) Prepare as-built drawings in a digital format, compatible with the City's GIS system, for all programs
- 4) Street name plate replacement program
- 5) Pedestrian/School signing replacement program
- 6) Guide sign and overhead sign structure replacement program
- 7) Tree trimming program to ensure adequate visibility of control devices at intersections

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	300.0	400.0	400.0	400.0	400.0
<b>Total</b>	<b>300.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-TRANSPORTATION	300.0	300.0	300.0	300.0	300.0
UNFUNDED TRANSPORTATION INFRA RES	0.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>300.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1507 TU-GUARDRAILS**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Cory Funk
Asset Type		Est. End Date	-

**Project Description**

This project involves the installation of new guardrail for public safety, as well as the inspection and replacement of existing guardrail (and crash cushions) that have deteriorated to the point where structural integrity is compromised.

**General Comments**

The list of locations requiring either guardrail installation or replacement has grown significantly and will require several years of funding to complete. Guardrail will be installed and/or replaced at specific locations in order of priority as determined through the ranking system.

This program is an on-going, annual program.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Installation/Replacement	150.0	125.0	125.0	125.0	125.0
<b>Total</b>	<b>150.0</b>	<b>125.0</b>	<b>125.0</b>	<b>125.0</b>	<b>125.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-TRANSPORTATION	150.0	50.0	50.0	50.0	50.0
UNFUNDED TRANSPORTATION INFRA RES	0.0	75.0	75.0	75.0	75.0
<b>Total</b>	<b>150.0</b>	<b>125.0</b>	<b>125.0</b>	<b>125.0</b>	<b>125.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1512 TU-NEIGHBOURHOOD TRAFFIC MANAGEMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Shirley Matt
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project addresses shortcutting, speeding and road user safety issues within neighbourhoods and on local and collector streets. The project includes comprehensive neighbourhood-wise traffic reviews. Further details, including information on the Neighbourhood Traffic Reviews, are provided in the Neighbourhood Traffic Management Guidelines and Tools, City of Saskatoon, May 2016.

**General Comments**

This project supports the City of Saskatoon long-term 'Moving Around' strategy as neighbourhood traffic management provides safety for motorists, cyclists and pedestrians.

This program will include:

- 1) Eight Neighbourhood Traffic Reviews per year
- 2) Conducting traffic studies and holding neighbourhood meetings (early spring and late fall) to determine and develop the traffic management plan
- 3) Maintenance of the existing temporary traffic calming locations
- 4) Temporary implementation of the completed neighbourhood traffic calming plans

Details on the program proposed for the budget year will be presented in an administrative report prior to, or concurrent with the Council budget meeting. It is intended to use external service providers for facilitation of the Neighbourhood Traffic Reviews.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Construction	250.0	350.0	100.0	100.0	100.0
<b>Total</b>	<b>250.0</b>	<b>350.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
TRAFFIC SAFETY RESERVE	250.0	220.0	100.0	100.0	100.0
UNFUNDED TRAFFIC SAFETY RES	0.0	130.0	0.0	0.0	0.0
<b>Total</b>	<b>250.0</b>	<b>350.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1513 TU-PAVEMENT MARKING PROGRAM-INFRA**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Cory Funk
Asset Type		Est. End Date	-

**Project Description**

This project involves the installation and rehabilitation of permanent pavement markings that have been installed on freeway/expressway and arterial roadways over the last 20 years.

**General Comments**

There is no provision for this work in any operating program and rehabilitation of the markings has only been conducted under the arterial resurfacing program. Many of the permanent markings which have been installed have exceeded their design life and in areas of heavy travel, such as weave areas and intersections, the markings are completely gone.

The program includes the review, assessment and replacement of:

- Permanent markings on freeway/expressway roadways as required
- Permanent markings on arterial roadways as required
- Crosswalk and stop line markings on the above roads
- Guideline, continuity line and chevrons on the above roads

This program is also responsible for the placement of semi-permanent markings on the roadways rehabilitated by arterial resurfacing and micro surfacing.

This program is an on-going, annual program.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	310.0	310.0	310.0	310.0	310.0
<b>Total</b>	<b>310.0</b>	<b>310.0</b>	<b>310.0</b>	<b>310.0</b>	<b>310.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-TRANSPORTATION	310.0	310.0	310.0	310.0	310.0
<b>Total</b>	<b>310.0</b>	<b>310.0</b>	<b>310.0</b>	<b>310.0</b>	<b>310.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1518 CY-PAY STATION PURCHASES & IMPLEMENTATION**

Project Status	Open	Year Identified	2009
Project Type	EQUIPMENT REPLACEMENT	Manager	Andrew Hildebrandt
Asset Type		Est. End Date	-

**Project Description**

This project provides for the continued conversion to the pay-by-plate parking system.

**General Comments**

A new electronic pay station parking system was implemented in 2015 to replace the aging coin meters. The project supports the purchase of the new system, as well as additional pay stations for future expansion. It also provides the necessary resources to retrofit the parking services program to better adapt to the changing needs of the new system.

The implementation phase includes project management to lead the continued implementation of the new parking system and the purchase of maintenance and systems equipment. The 2018 budget will provide further support for resources to complete system conversion.

**Prior Budget Approvals**

\$755,000 Implementation

\$4,577,000 Contractual agreement with Cale Systems Inc.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Implementation	60.0	60.0	60.0	60.0	60.0
<b>Total</b>	<b>60.0</b>	<b>60.0</b>	<b>60.0</b>	<b>60.0</b>	<b>60.0</b>
<b>FINANCING DETAILS</b>					
PARKING RESERVE	60.0	60.0	60.0	60.0	60.0
<b>Total</b>	<b>60.0</b>	<b>60.0</b>	<b>60.0</b>	<b>60.0</b>	<b>60.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

## 1522 TU-TRAFFIC NOISE ATTENUATION

Project Status	Open	Year Identified	2009
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Jay Magus
Asset Type		Est. End Date	-

### Project Description

This project involves the design and construction of traffic noise attenuation devices to reduce the negative impacts of vehicle related noise on abutting residential properties.

### General Comments

The traffic noise attenuation project is designed to address those residential areas that are adjacent to high volume roadways. Funding shown in future years will provide for the ongoing monitoring of traffic noise levels throughout the City.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Ongoing Noise Monitoring	0.0	50.0	0.0	0.0	50.0
<b>Total</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>50.0</b>
<b>FINANCING DETAILS</b>					
TRAFFIC NOISE ATTENUATION CAP RESERVE	0.0	50.0	0.0	0.0	50.0
<b>Total</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>50.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1523 AF-TRUNKING RADIO REPLACEMENT**

Project Status	Open	Year Identified	2011
Project Type	SUPPORT SYSTEMS	Manager	Del Ehlert
Asset Type	Communication systems	Est. End Date	-

**Project Description**

This project involves the replacement of all analog radio's to digital. This involves the replacement of City owned portable and mobile radios from analog to digital and replacement of radios due to end of life cycle.

**General Comments**

This project provides funding for the replacement of Corporate radio's.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
EQUIPMENT PURCHASE	350.0	350.0	375.0	375.0	400.0
<b>Total</b>	<b>350.0</b>	<b>350.0</b>	<b>375.0</b>	<b>375.0</b>	<b>400.0</b>
<b>FINANCING DETAILS</b>					
CIVIC RADIO REPL & EXPN RESERVE	350.0	350.0	375.0	375.0	400.0
<b>Total</b>	<b>350.0</b>	<b>350.0</b>	<b>375.0</b>	<b>375.0</b>	<b>400.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1526 TU-CIRCLE DR BRIDGE REPAIR**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Dan Willems
Asset Type		Est. End Date	-

**Project Description**

This project involves rehabilitation of the Circle Drive North Bridge, both eastbound and westbound.

**General Comments**

The Circle Drive North Bridge consists of two separate bridge decks (eastbound and westbound) founded on a shared pier system. The eastbound and westbound bridge structures are curved, five span, three lane steel girder bridges. The estimated replacement cost for each structure is approximately \$45.1 million.

Proactive rehabilitation work planned for 2021 includes removal and replacement of the asphalt wearing surface and membranes, spot repairs to the concrete decks, replacement of the expansion joints and spot repairs to concrete surfaces. The design and engineering services for the rehabilitation work is planned in 2019.

If a 'Do Nothing' approach were taken with preservation of the two bridge superstructures, service life prediction modeling indicates that structural failure, necessitating costly emergency repairs, can be expected to occur by the year 2035, requiring complete replacement of the superstructures. The cost estimate for deck replacement is approximately \$18 million for each structure.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
	0.0	0.0	200.0	4,950.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>200.0</b>	<b>4,950.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BRIDGE MAJOR REPAIR RESERVE	0.0	0.0	200.0	2,240.0	0.0
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	0.0	0.0	2,710.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>200.0</b>	<b>4,950.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1528 TU-SPADINA CRES BRIDGE**

Project Status	Open	Year Identified	2012
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Dan Willems
Asset Type		Est. End Date	-

**Project Description**

This project includes the rehabilitation of the Spadina Crescent Bridge.

**General Comments**

The Spadina Crescent Bridge is a three span, two lane continuous concrete deck slab bridge, originally constructed in 1930. The estimated replacement cost for this structure is approximately \$1.16 million.

The work planned for 2018 includes repairs to the architectural arches and concrete patching. Rehabilitation work planned for 2027 includes engineering services, removal and replacement of the asphalt wearing surface and membrane, removal and replacement of a portion of the concrete deck, spot repairs to concrete surfaces, installation of galvanic protection on the substructure, application of silane sealer to the walkway and substructure, filling voids on the abutments and improving erosion protection.

If a 'Do Nothing' approach were taken with preservation of this bridge, service life prediction modeling indicates that structural failure of the deck, necessitating costly emergency repairs, can be expected to occur by the year 2024, with complete replacement of the bridge required by the year 2029 at a cost of approximately \$1.16 million.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Repairs	100.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BRIDGE MAJOR REPAIR RESERVE	100.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1553 TU-SID BUCKWOLD BRIDGE REPAIRS**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Todd Grabowski
Asset Type		Est. End Date	-

**Project Description**

This project includes rehabilitation of the Sid Buckwold Bridge.

**General Comments**

The Sid Buckwold Bridge is a three span, six lane post-tensioned concrete girder bridge, originally constructed in 1965. The estimated replacement cost for this structure is approximately \$66.1 million.

Design and Engineering Services required for the rehabilitation in 2019 & 2020 will occur in 2017 and 2018. Rehabilitation work planned for 2019 includes engineering services, removal and replacement of the asphalt wearing surface and membrane, removal and replacement of a portion of the concrete deck, increasing the concrete cover over the rebar on the deck by 70 mm, removal and replacement of the median and interior traffic rails, replacement of the expansion joints, spot repairs to concrete surfaces, application of silane sealer to the walkway and replacement of the pedestrian railing.

This work will be done using external service providers.

If a 'Do Nothing' approach were taken with preservation of this bridge, service life prediction modeling indicates that structural failure of the deck, necessitating costly emergency repairs, can be expected to occur by the year 2027, with complete replacement of the deck and barriers required by the year 2032. The cost estimate for emergency deck repairs and subsequent deck rehabilitation is approximately \$40.8 million.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Bridge Deck Resurfacing	500.0	7,750.0	0.0	0.0	0.0
<b>Total</b>	<b>500.0</b>	<b>7,750.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BRIDGE MAJOR REPAIR RESERVE	500.0	7,750.0	0.0	0.0	0.0
<b>Total</b>	<b>500.0</b>	<b>7,750.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1556 TU-SYSTEM UPGRADES/REPLACEMENTS**

Project Status	Open	Year Identified	2012
Project Type	SUPPORT SYSTEMS	Manager	Shelley Korte
Asset Type		Est. End Date	-

**Project Description**

This project is to fund the investigation, procurement and implementation of system replacements or upgrades required in the Transportation and Utilities Department.

**General Comments**

There are many internal systems used by Transportation and Utilities which are integral to its operations. These systems eventually need upgrading, or need to be able to realize efficiencies by taking advantage of available advanced technology.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Design and Implementation	50.0	50.0	50.0	50.0	50.0
<b>Total</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>
<b>FINANCING DETAILS</b>					
TU - CAPITAL RESERVE	50.0	50.0	50.0	50.0	50.0
<b>Total</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1557 TU-OFFICE MOD'NS/FURNITURE REPL/UPGRADES**

<b>Project Status</b>	Open	<b>Year Identified</b>	2011
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Shelley Korte
<b>Asset Type</b>	Building Contents	<b>Est. End Date</b>	-

**Project Description**

This project is to provide funding to address identified office modifications and required replacements and/or upgrades to systems furniture for open office areas in the Transportation and Utilities Department.

**General Comments**

Existing systems furniture is dated and no longer manufactured - any required upgrades or modifications are not compatible with the existing furniture. Funding identified for Access Transit is required for office upgrades to the booking and scheduling area at Access Transit.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Access Transit	150.0	0.0	0.0	0.0	0.0
Office Furniture System Replacement	50.0	50.0	50.0	50.0	50.0
<b>Total</b>	<b>200.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>
<b>FINANCING DETAILS</b>					
TU - CAPITAL RESERVE	200.0	50.0	50.0	50.0	50.0
<b>Total</b>	<b>200.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1561 TU-COLLEGE DRIVE WESTBOUND OVER CPR OVERPASS**

Project Status	Open	Year Identified	2015
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Todd Grabowski
Asset Type		Est. End Date	-

**Project Description**

This project involves preservation activities for the College Drive westbound over CPR overpass.

**General Comments**

College Drive westbound over CPR overpass was bestowed to the City of Saskatoon in late 2011 by the Saskatchewan Ministry of Highways. The structure is a two lane, three span, steel girder bridge, originally constructed in 1965.

The rehabilitation of the structure is planned for 2021 and includes engineering services, removal of asphalt wearing surface and membrane, removal and replacement of portions of the concrete deck, spot repairs of the concrete surface and installation of a new membrane and wearing surface.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
College Drive Westbound Over CPR Overpass	0.0	0.0	100.0	1,500.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>100.0</b>	<b>1,500.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BRIDGE MAJOR REPAIR RESERVE	0.0	0.0	100.0	1,500.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>100.0</b>	<b>1,500.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1562 TU-COLLEGE DRIVE EASTBOUND OVER CPR OVERPASS**

Project Status	Open	Year Identified	2015
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Todd Grabowski
Asset Type		Est. End Date	-

**Project Description**

This project involves preservation activities for the College Drive eastbound over CPR overpass.

**General Comments**

The College Drive eastbound over CPR overpass was bestowed by the City of Saskatoon in late 2011 by the Saskatchewan Ministry of Highways. The structure is a two lane, three span, steel girder bridge, originally constructed in 1993.

The rehabilitation of the structure is planned for 2022 and includes engineering services, removal of asphalt wearing surface and membrane, removal and replacement of 112 mm of the concreted deck, spot repairs to the concrete surface and installation of the new membrane and wearing surface.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
College Drive Eastbound Over CPR Overpass	0.0	0.0	0.0	160.0	2,700.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>160.0</b>	<b>2,700.0</b>
<b>FINANCING DETAILS</b>					
BRIDGE MAJOR REPAIR RESERVE	0.0	0.0	0.0	160.0	2,160.0
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	0.0	0.0	0.0	540.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>160.0</b>	<b>2,700.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

# 1564 TU-TRAFFIC COUNTERS EQUIPMENT REPLACEMENT

Project Status	Open	Year Identified	2018
Project Type	EQUIPMENT REPLACEMENT	Manager	David LeBoutiller
Asset Type		Est. End Date	-

## Project Description

This project is to replace aging portable traffic counting equipment used for short-term traffic volume, classification and speed studies.

## General Comments

This project is to develop an equipment replacement fund to address equipment failures and slow erosion of our ability to complete short-term traffic volume and speed studies.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Equipment Replacement	0.0	65.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>65.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
TRANSP INFRAS EXPANSION	0.0	65.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>65.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1568 PARK DEV-ROSEWOOD**

Project Status	Open	Year Identified	2010
Project Type	PREPAID LAND DEVELOPMENT	Manager	Bruce Laing
Asset Type		Est. End Date	-

**Project Description**

This project involves the development of parks in the Rosewood neighbourhood.

**General Comments**

Funding identified in 2018 is for the design of a 3.9 acre secondary core park.

**Operating Impact**

\$ 27,300 for Park Maintenance in 2021

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Core Parks	74.0	910.0	951.0	0.0	0.0
Linear Parks	0.0	171.0	1,539.0	0.0	0.0
Pocket Parks	0.0	0.0	431.0	0.0	0.0
Village Square	0.0	270.0	0.0	0.0	0.0
<b>Total</b>	<b>74.0</b>	<b>1,351.0</b>	<b>2,921.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PARKS AND RECREATION LEVY (NBHD)	74.0	1,351.0	2,921.0	0.0	0.0
<b>Total</b>	<b>74.0</b>	<b>1,351.0</b>	<b>2,921.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	27.3	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1570 PARK DEV-KENSINGTON**

Project Status	Open	Year Identified	2012
Project Type	PREPAID LAND DEVELOPMENT	Manager	Bruce Laing
Asset Type		Est. End Date	-

**Project Description**

This project involves the development of parks in the Kensington neighbourhood.

**General Comments**

Construction of the 16.5 acre neighbourhood park is scheduled to begin in 2019. The neighbourhood park is named the Lions Century Park and the Saskatoon Lions Club will be contributing approximately \$100,000. These funds will be used to enhance the accessibility of the play structure.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Core Parks	0.0	2,978.0	0.0	0.0	0.0
Linear Parks	0.0	14.0	360.0	0.0	0.0
Pocket Parks	0.0	40.0	361.0	0.0	0.0
Water Feature	0.0	0.0	604.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>3,032.0</b>	<b>1,325.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PARKS AND RECREATION LEVY (NBHD)	0.0	2,932.0	1,325.0	0.0	0.0
PRIVATE CONTRIBUTIONS	0.0	100.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>3,032.0</b>	<b>1,325.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1573 CY- CSO-COMPREHENSIVE REVIEW STUDY**

Project Status	Open	Year Identified	2015
Project Type	REJUVENATION	Manager	Elisabeth Miller
Asset Type		Est. End Date	-

**Project Description**

The Community Support Program is managed by the Downtown Business Improvement District and overseen by the Street Activity Steering Committee. There will be a comprehensive review of the Program prior to the end of the current contract with the Downtown Business Improvement District.

**General Comments**

The Street Activity Baseline Study planned for 2018 will support a comprehensive review of the Community Support Program. It will build on the Street Activity Baseline Study that was completed in 2011 and updated in 2013 and 2015. This study tracks the perceptions of safety of the general public, businesses in the Downtown, Broadway, and Riversdale Business Improvement Districts, and vulnerable people on the street.

The study will be completed in December 2018.

**Prior Budget Approval**

\$50,000 Street Activity Baseline Study Update (2015)

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Comprehensive Review Study	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
STREETSCAPE RESERVE-BID	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1574 PARK DEV-ASPEN RIDGE**

Project Status	Open	Year Identified	2015
Project Type	PREPAID LAND DEVELOPMENT	Manager	Bruce Laing
Asset Type		Est. End Date	-

**Project Description**

This project involves the development of parks in the Aspen Ridge neighbourhood.

**General Comments**

Funding identified in 2018 is for the construction of 8.22 acres of linear park.

**Operating Impact**

\$ 57,500 in 2020 for linear park to be construct in 2018

**Prior Budget Approval**

\$191,000 for design of the linear parks

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Core Parks	0.0	0.0	391.0	3,516.0	0.0
Linear Parks	1,755.0	103.0	993.0	642.0	0.0
Pocket Park	0.0	42.0	380.0	56.0	500.0
Village Square	0.0	0.0	35.0	311.0	0.0
<b>Total</b>	<b>1,755.0</b>	<b>145.0</b>	<b>1,799.0</b>	<b>4,525.0</b>	<b>500.0</b>
<b>FINANCING DETAILS</b>					
PARKS AND RECREATION LEVY (NBHD)	1,755.0	145.0	1,799.0	4,525.0	500.0
<b>Total</b>	<b>1,755.0</b>	<b>145.0</b>	<b>1,799.0</b>	<b>4,525.0</b>	<b>500.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	57.5	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1575 PARK DEV-ELK POINT**

Project Status	Open	Year Identified	2015
Project Type	PREPAID LAND DEVELOPMENT	Manager	Bruce Laing
Asset Type		Est. End Date	-

**Project Description**

This project involves the development of parks in the Elk Point neighbourhood.

**General Comments**

Future timing of park development is based on anticipated development plans.

**Prior Budget Approvals**

\$103,000 for design of one linear park

\$190,000 for design of two district parks

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Core Parks	0.0	0.0	327.0	2,927.0	0.0
District Park	0.0	0.0	1,882.0	116.0	1,047.0
Linear Parks	0.0	0.0	1,244.0	1,220.0	886.0
Pocket Parks	0.0	0.0	32.0	329.0	347.0
Village Square	0.0	0.0	0.0	36.0	322.0
Water Feature	0.0	0.0	0.0	0.0	616.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>3,485.0</b>	<b>4,628.0</b>	<b>3,218.0</b>
<b>FINANCING DETAILS</b>					
PARKS AND RECREATION LEVY (DISTRICT)	0.0	0.0	1,882.0	116.0	1,047.0
PARKS AND RECREATION LEVY (NBHD)	0.0	0.0	1,603.0	4,512.0	2,171.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>3,485.0</b>	<b>4,628.0</b>	<b>3,218.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1576 PARK DEV-BRIGHTON**

Project Status	Open	Year Identified	2015
Project Type	PREPAID LAND DEVELOPMENT	Manager	Bruce Laing
Asset Type		Est. End Date	-

**Project Description**

This project involves the development of parks in the Brighton neighbourhood.

**General Comments**

Development planned for 2018 includes the construction of a 0.67 acre linear park and a 1.41 acre pocket park. Also included is the design of 16.78 acres of district park space.

**Operating Impacts:**

2020 - \$ 17,400 for maintenance of parks constructed in 2018

2021 - \$117,500 for maintenance of parks designed in 2018

**Prior Budget Approvals**

\$17,000 for design of one linear park

\$44,000 for design of one pocket park

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Core Parks	0.0	479.0	4,308.0	0.0	0.0
District Park	264.0	2,373.0	243.0	2,181.0	0.0
Linear Parks	175.0	68.0	667.0	566.0	0.0
Pocket Parks	419.0	0.0	153.0	1,380.0	0.0
Water Feature	0.0	0.0	0.0	907.0	0.0
<b>Total</b>	<b>858.0</b>	<b>2,920.0</b>	<b>5,371.0</b>	<b>5,034.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PARKS AND RECREATION LEVY (DISTRICT)	225.0	2,024.0	243.0	2,181.0	0.0
PARKS AND RECREATION LEVY (MULTI-DISTRICT)	39.0	349.0	0.0	0.0	0.0
PARKS AND RECREATION LEVY (NBHD)	594.0	547.0	5,128.0	2,853.0	0.0
<b>Total</b>	<b>858.0</b>	<b>2,920.0</b>	<b>5,371.0</b>	<b>5,034.0</b>	<b>0.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	17.4	117.5	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1578 PARK DEV-SILVERWOOD INDUSTRIAL AREA PARK**

Project Status	Open	Year Identified	2015
Project Type	PREPAID LAND DEVELOPMENT	Manager	Bruce Laing
Asset Type		Est. End Date	-

**Project Description**

This project involves the development of two parcels of land located in the Silverwood Industrial area of Saskatoon.

**General Comments**

The Silverwood Industrial Area Park plan is to develop two parcels of land located on the north and south side of Wanuskewin Road in the Silverwood Industrial area.

The plan is to develop two softball diamonds (north parcel adjacent to the allotment gardens) in 2021 and two multipurpose fields (south parcel adjacent to Fire Hall #7) in 2022.

**Prior Budget Approval**

\$378,000 Allotment Gardens

\$125,000 Park design

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Silverwood North District Park	0.0	0.0	0.0	1,885.0	0.0
Silverwood South District Park	0.0	0.0	0.0	0.0	3,545.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,885.0</b>	<b>3,545.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED RCE	0.0	0.0	0.0	1,885.0	3,545.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,885.0</b>	<b>3,545.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1584 CIVIC OPERATIONS CENTRE**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	INFRASTRUCTURE REPLACEMENT	<b>Manager</b>	Linda Andral
<b>Asset Type</b>	Buildings	<b>Est. End Date</b>	-

**Project Description**

This project consists of the relocation of Transit, Public Works and City Yards to a new combined location.

This project has two phases of construction:

Phase One included the relocation of Transit from Caswell Hill, allowing for the decommissioning and the redevelopment of the vacated portion of Caswell Hill which has been identified as a Council priority. This Phase will also provide the first permanent Snow Storage Facility. This facility will manage snow melt water and meet environmental regulations. Phase One construction is complete.

Phase Two of this project consists of the planning, design and construction of a new facility for the Water & Waste Stream Division and Roadways & Operations Division (also known as Public Works or City Yards).

**General Comments**

The John Deere Plow Co. Ltd. built the John Deere building in 1910 and occupied it until 1961, when it was sold to the City of Saskatoon. The four-storey, 16,000-square-foot building currently houses about 470 employees, many of whom are field staff that report in at the beginning and end of shifts. The John Deere building has had minimal maintenance performed since the middle of the last century to keep it habitable; however, major maintenance or lifecycle upgrades have not been completed - these are long overdue.

The primary goals for building a new facility are to support Public Works operations with appropriate, long term, purpose specific facilities and to enlarge the overall space in line with accepted 'best practice' in Canada. Other goals related to the new facility include locating the facility in a strategic location with ready access to a high volume transportation network, streamlining operations and avoiding the need to lease storage space.

In 2017, \$500,000 was approved to: fine tune project space and requirements; evaluate the need/opportunities for satellite yards; evaluate operating budget impact; and develop phasing strategies. All of these will ultimately result in a greater certainty of costs.

Specialized work functions require purpose built facilities that accommodate round-the-clock (24x7) operations. The following are a few examples:

- Designated self-contained area for the Sewer group
- Heated indoor storage to stockpile material for emergency repairs in the winter months
- Heated indoor storage for the fleet
- Multi-purpose indoor training facility for Public Works staff, Fire and sub-contractors
- Adequate office space for daily safety/tailgate meetings which are required by Occupational Health and Safety
- Amenities as available to other City Divisions (such as showers, appropriate washrooms and lunch rooms)

**Operating Impact**

The operating budget impact for Phase Two will be determined in 2018.

**Prior Budget Approvals**

\$131,926,000 Prior budget approvals funded an environmental assessment, a feasibility study, relocation studies, a P3 business case and a communication plan as well as Phase One construction of the Transit and Snow Storage Facility.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
City Yards	0.0	0.0	0.0	0.0	35,000.0
Transit/Snowdump	8,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>8,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>35,000.0</b>
<b>FINANCING DETAILS</b>					
FUNDING PLAN CONTRIBUTION	8,000.0	0.0	0.0	0.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	0.0	35,000.0
<b>Total</b>	<b>8,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>35,000.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1595 CY-NEIGHBOURHOOD PARKS ENHANCEMENTS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	INFRASTRUCTURE MAINTENANCE	<b>Manager</b>	Lisa Thibodeau
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project involves the design and construction of park enhancements in existing neighbourhood parks where the community has identified a need for new park amenities. These parks are not part of the ten-year plan for upgrading under the Park Upgrades, Enhancements & Repairs (P901). The enhancements typically add components to existing park amenities and reflect the greatest need in the neighbourhood (e.g. park benches, trees and shrubs, picnic areas, lighting, playground equipment additions).

**General Comments**

The City receives requests from Community Associations for park enhancements, some of which are significant and fall under the capital budget parameters. These projects are funded through a combination of Community Association contributions and the Park Enhancement Reserve.

Each year, project requests are brought forward by the Community Associations and undergo an approved adjudication process. All project applications and cost estimates are then returned to the Community Associations with a request for a formal commitment to the project, including their financial contribution to the project. The finalized list of approved projects is completed once the operating budget amount for the Park Enhancement Reserve has been approved.

The 2018 Park Enhancement projects include the following:

**Crocus Park Playground (Lakeridge)**

The Lakeridge Community Association will be partnering with the Lakeridge School Playground Enhancement Committee and the City of Saskatoon to replace the 30 year-old playground equipment in Crocus Park next to Lakeridge School in the Lakeridge neighbourhood. Originally submitted in 2017, the project was removed and re-submitted in 2018 as the scope of the project had changed to accommodate more equipment being replaced.

**Crocus Park Playground (St. Luke)**

The Lakeridge Community Association will be partnering with the St. Luke School Playground Enhancement Committee and the City of Saskatoon to replace the 27 year-old playground equipment in Crocus Park next to St. Luke School in the Lakeridge neighbourhood.

**Wallace Park Playground Expansion**

The Willowgrove Community Association will be partnering with the Willowgrove School Playground Committee to install additional playground equipment in Wallace Park to complement the existing amenities.

**Special Note**

These projects are contingent on receiving contributions from the Community Associations.

**Operating Impact**

2019 - \$13,200 Maintenance of playground equipment at Crocus Park Playground (Lakeridge)

2019 - \$13,200 Maintenance of playground equipment at Crocus Park Playground (St. Luke)

2019 - \$6,600 Maintenance of playground equipment at Wallace Park Playground Expansion

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Crocus Park Playground-Lakeridge	240.0	0.0	0.0	0.0	0.0
Crocus Park Playground-St Luke	240.0	0.0	0.0	0.0	0.0
Wallace Park Playground Expansion	120.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>600.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PARK ENHANCE RES	30.0	0.0	0.0	0.0	0.0
PRIVATE CONTRIBUTIONS	570.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>600.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	33.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1615 TU-WATER DISTRIBUTION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	INFRASTRUCTURE REPLACEMENT	<b>Manager</b>	Steve Wood
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project is an annual program to undertake major rehabilitation and replacement of water mains and appurtenances in the water distribution system.

**General Comments**

The network management component of this project involves the evaluation and planning to manage overall condition and capacity of the water distribution system.

The preservation program involves the project level design, construction administration and construction/contract activities to deliver the annual major rehabilitation and replacement programs and capacity improvement programs. Future years' preservation budgets reflect the cost to replace mains and service connections that are anticipated to reach the economic life in the respective year subject to a maximum 12 breaks.

The capacity program is directed at ensuring adequate pressure and volumes. Capacity improvements are typically driven by the need to meet minimum fire flow standards for fire suppression and to ensure adequate water pressure during flushing and water quality programming.

The capital operations component of the capital budget reflects capital investment directed at supporting operating programs.

The general support capital expenditure provides support to all programs including the continued development of GIS.

The lead connection program involves the construction administration and construction/contract activities for the replacement of lead connection on an emergency basis as well as in conjunction with roadway preservation and homeowner requests.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Capacity Programs	5,673.0	5,815.0	5,961.0	6,110.0	6,262.0
Capital Operations	198.0	203.0	207.0	212.0	216.0
Flow Monitoring	21.0	22.0	22.0	23.0	23.0
General Support	37.0	38.0	39.0	40.0	41.0
HO Req Backlog	1,676.0	0.0	0.0	0.0	0.0
Lead Connections	788.0	808.0	828.0	849.0	870.0
Longterm Lead	2,306.0	2,364.0	2,423.0	2,484.0	2,546.0
Modelling and Monitoring Support	50.0	50.0	50.0	50.0	50.0
Network Management	158.0	162.0	166.0	170.0	174.0
Preservation Program	5,853.0	6,233.0	6,638.0	7,070.0	7,529.0
<b>Total</b>	<b>16,760.0</b>	<b>15,695.0</b>	<b>16,334.0</b>	<b>17,008.0</b>	<b>17,711.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-WTR & SAN SWR	16,760.0	15,695.0	16,334.0	17,008.0	17,711.0
<b>Total</b>	<b>16,760.0</b>	<b>15,695.0</b>	<b>16,334.0</b>	<b>17,008.0</b>	<b>17,711.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1616 TU-WASTE WATER COLLECTION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	INFRASTRUCTURE REPLACEMENT	<b>Manager</b>	Steve Wood
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project is an annual program to undertake major rehabilitation and replacement of waste water sewer mains and appurtenances in the waste water collection system.

**General Comments**

The network management component of this project involves the evaluation and planning to manage the overall condition and capacity of the waste water collection system.

The preservation and capacity programs involve the project level design, construction administration, and construction/contract activities to deliver the annual major rehabilitation and replacement programs and capacity improvement programs. The preservation program is directed at replacement and rehabilitation of sewer mains and service connections that are structurally unsound and pose a high risk of failure leading to sewer backup. The capacity improvement program is directed at mains that are undersized due to development intensification and wet weather inflow.

The capital operations component of the capital budget reflects capital investment directed at supporting operating programs.

The general support capital expenditure provides support to all programs including the continued development of GIS.

The connection replacement program involves the construction administration and construction/contract activities for the replacement of sewer connections.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Capital Operations	183.0	187.0	191.0	195.0	199.0
Connection Replacements	1,246.0	1,262.0	1,279.0	1,296.0	1,313.0
Flow Monitoring	42.0	43.0	44.0	45.0	46.0
General Support	37.0	38.0	39.0	40.0	41.0
Modelling and Monitoring Support	50.0	50.0	50.0	50.0	50.0
Network Management	289.0	296.0	304.0	311.0	319.0
Preservation Program	3,287.0	3,384.0	3,484.0	3,586.0	3,691.0
<b>Total</b>	<b>5,134.0</b>	<b>5,260.0</b>	<b>5,391.0</b>	<b>5,523.0</b>	<b>5,659.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-WTR & SAN SWR	5,134.0	5,260.0	5,391.0	5,523.0	5,659.0
<b>Total</b>	<b>5,134.0</b>	<b>5,260.0</b>	<b>5,391.0</b>	<b>5,523.0</b>	<b>5,659.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1617 TU-PRIMARY WATER MAINS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	INFRASTRUCTURE REPLACEMENT	<b>Manager</b>	Steve Wood
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project is an annual program to undertake major rehabilitation and replacement of the pipelines and appurtenances in the large diameter transmission system.

**General Comments**

The network management component of this project involves the evaluation, inspection and planning to manage the capacity in relation to demand, and the overall condition of the primary water main system. The work on this network will focus on demand/capacity modeling, cathodic protection and condition assessment.

The preservation and capacity programs involve the project level design, construction administration, and construction/contract activities to deliver the annual major rehabilitation and replacement programs and capacity improvement programs.

The program will continue to focus on corrosion protection on the primary water mains to control corrosion failures, a common cause of leaks on these large diameter mains. A second component of the program includes the replacement and retrofitting of control valves/chambers to provide for the shutdown and isolation of the primary water main for maintenance and operations. A third component of this program is the major rehabilitation or replacement of primary water main sections.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Capacity Programs	242.0	248.0	254.0	260.0	267.0
Flow Monitoring	21.0	22.0	22.0	23.0	23.0
General Support	32.0	32.0	33.0	34.0	35.0
Network Management	105.0	108.0	110.0	113.0	116.0
Operating Programs	26.0	26.0	26.0	26.0	26.0
Preservation Program	1,571.0	4,564.0	4,553.0	4,542.0	4,530.0
<b>Total</b>	<b>1,997.0</b>	<b>5,000.0</b>	<b>4,998.0</b>	<b>4,998.0</b>	<b>4,997.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-WTR & SAN SWR	1,997.0	5,000.0	4,998.0	4,998.0	4,997.0
<b>Total</b>	<b>1,997.0</b>	<b>5,000.0</b>	<b>4,998.0</b>	<b>4,998.0</b>	<b>4,997.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1618 TU-SANITARY SEWER TRUNKS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	INFRASTRUCTURE REPLACEMENT	<b>Manager</b>	Steve Wood
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project is an annual program to undertake major rehabilitation and replacement of waste water trunk sewers and appurtenances in the large diameter waste water collection system.

**General Comments**

The network management component of this project involves the evaluation and planning to manage the overall condition and capacity of the waste water trunk sewer system. The planning work will focus on demand/capacity modeling and the inspection of critical trunk sewers.

The preservation and capacity programs involve the project level design, construction administration, and construction/contract activities to deliver the annual major rehabilitation and replacement programs and capacity improvement programs. Trunk sewers are critical sewers that cannot readily be taken out of service and in the event of a failure have a major environmental impact. The preservation program is directed at preventing failures through early rehabilitation or replacement.

The capacity improvement program is directed at mains that are undersized due to development intensification and where loading exceeds capacity. Other capacity funding is allocated to programming to reduce wet weather inflow, which leads to local sanitary sewer overflows to the river.

The capital operations component of the capital budget reflects capital investment directed at supporting operating programs.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Capacity Programs	168.0	172.0	177.0	181.0	186.0
Capital Operations	67.0	68.0	69.0	70.0	71.0
Flow Monitoring	42.0	43.0	44.0	45.0	46.0
General Support	32.0	32.0	33.0	34.0	35.0
Network Management	242.0	248.0	254.0	260.0	267.0
Preservation Program	1,357.0	1,391.0	1,426.0	1,462.0	1,498.0
<b>Total</b>	<b>1,908.0</b>	<b>1,954.0</b>	<b>2,003.0</b>	<b>2,052.0</b>	<b>2,103.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-WTR & SAN SWR	1,908.0	1,954.0	2,003.0	2,052.0	2,103.0
<b>Total</b>	<b>1,908.0</b>	<b>1,954.0</b>	<b>2,003.0</b>	<b>2,052.0</b>	<b>2,103.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1619 TU-STORM SEWER TRUNK AND COLLECTION**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Lowell Reinhart
Asset Type		Est. End Date	-

**Project Description**

The project is an annual program to support major rehabilitation, upgrading, and replacement of small and large diameter collector and trunk storm sewer mains and connections. The City's storm water assets include over 700 km of storm water pipes. Storm sewer asset management seeks to provide lowest life cycle costs.

**General Comments**

The project includes Network Management which involves the management, evaluation and planning required to support the Preservation and Capacity Improvement components. The Preservation Program includes inspection and assessment of the storm water infrastructure and lining of priority storm pipes to extend their life. Capacity Improvement includes design and construction to enhance drainage in areas that experience flooding.

External service providers are intended to be used to upgrade IDF curves and help develop climate change adaptation strategies.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Capacity Program	321.0	327.0	334.0	341.0	347.0
Capital Operations	50.0	51.0	52.0	53.0	54.0
Network Management	266.0	271.0	277.0	282.0	288.0
Preservation Program	800.0	816.0	832.0	849.0	866.0
<b>Total</b>	<b>1,437.0</b>	<b>1,465.0</b>	<b>1,495.0</b>	<b>1,525.0</b>	<b>1,555.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES - STORM WATER	1,437.0	1,465.0	1,495.0	1,525.0	1,555.0
<b>Total</b>	<b>1,437.0</b>	<b>1,465.0</b>	<b>1,495.0</b>	<b>1,525.0</b>	<b>1,555.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1621 TU-STORM SEWER POND PRESERVATION**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Lowell Reinhart
Asset Type		Est. End Date	-

**Project Description**

This project is an annual program to undertake rehabilitation of storm water retention ponds. The storm water system includes 28 storm retention ponds - 20 are wet and 8 are dry. Annual storm pond asset management will protect property from flooding and ensure water quality.

**General Comments**

The Network Management component involves evaluation and planning to support the Preservation and Capacity Improvement components. The Preservation Components involve project design, administration and construction to preserve the storm ponds on a priority basis. This includes potential sediment removal to extend pond lifespan.

External service providers are intended to be used for surveying and assessing the sediment levels in wet ponds throughout the City where water quality and storage volume are being affected by sediment build up over time.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Capital Operations	80.0	82.0	83.0	85.0	87.0
Network Management	22.0	22.0	23.0	23.0	24.0
Preservation Program	248.0	253.0	258.0	263.0	268.0
<b>Total</b>	<b>350.0</b>	<b>357.0</b>	<b>364.0</b>	<b>371.0</b>	<b>379.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES - STORM WATER	350.0	357.0	364.0	371.0	379.0
<b>Total</b>	<b>350.0</b>	<b>357.0</b>	<b>364.0</b>	<b>371.0</b>	<b>379.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1627 CY-CITY ENTRANCEWAY/ EXPRESSWAY LANDSCAPING**

Project Status	Open	Year Identified	2009
Project Type	REJUVENATION	Manager	Bruce Laing
Asset Type		Est. End Date	-

**Project Description**

This project involves the design, installation and maintenance of appropriate landscaping along the entrance roadways into the City, based on recommendations and staging as noted in the comprehensive City Entrances Landscape Development Master Plan.

**General Comments**

This project would provide funding to design, install, establish and maintain landscaping including trees, shrubs, shelterbelt replacements and other landscaping materials required to aesthetically enhance the entrance roadways in the City.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Design and Construction	0.0	350.0	350.0	350.0	350.0
<b>Total</b>	<b>0.0</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED RCE	0.0	350.0	350.0	350.0	350.0
<b>Total</b>	<b>0.0</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>	<b>350.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1635 CY-DIEFENBAKER PARK MASTER PLAN**

<b>Project Status</b>	Open	<b>Year Identified</b>	2016
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Brad Babyak
<b>Asset Type</b>	Parks and Open Spaces	<b>Est. End Date</b>	-

**Project Description**

This project involves a site survey, an analysis of current amenities, and the development of a Master Plan for Diefenbaker Park to guide current and future usage of the park.

**General Comments**

Diefenbaker Park has been identified as an important City-wide Special Use Park within Saskatoon. With the increase in population and number of events taking place in Saskatoon, Diefenbaker Park usage will continue to grow. Currently, Diefenbaker Park has three allocated green spaces that host festivals and events. The park also has one baseball diamond, an eighteen hole disc golf course, a public toboggan hill, and is the future home of Optimist Hill at Diefenbaker Park.

As events continue to increase in size, number and duration, a plan is needed to guide park usage as well as highlight the importance of Diefenbaker Park as a festival and event site. A Master Plan will identify and maximize the unique features available in and around Diefenbaker Park. Diefenbaker Park is well positioned geographically with access to the South Saskatchewan River, Meewasin Valley Authority trails and other nearby amenities.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Diefenbaker Park Master Plan	0.0	210.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>210.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED RCE	0.0	210.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>210.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

# 1638 TU-BACK LANE TREE TRIMMING

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Andrew Hildebrandt
Asset Type		Est. End Date	-

## Project Description

The project involves the pruning and/or removal of trees in back lanes.

## General Comments

There is a need to maintain access/egress from back lanes and this will provide an additional funding source to deal with public concerns.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Tree Trimming	0.0	50.0	50.0	50.0	50.0
<b>Total</b>	<b>0.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED TRANSPORTATION INFRA RES	0.0	50.0	50.0	50.0	50.0
<b>Total</b>	<b>0.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1650 CY-NEW MUNICIPAL CEMETERIES**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Gerald Rees
<b>Asset Type</b>	Cemeteries - Land Improvement	<b>Est. End Date</b>	-

**Project Description**

This project provides funding for the development of a Saskatoon Municipal Cemetery Master Plan.

**General Comments**

The 2005 Woodlawn Cemetery Value for Money Audit confirmed that the City of Saskatoon should remain in the cemetery business in order to meet the objectives of ensuring protection of public health and access to cemetery products and services at reasonable and relatively stable market prices. Based on current burial trends and regulations allowing four interments per single casket plot, Woodlawn will have capacity for approximately 25 years.

The Master Plan will provide high level guidance with regards to an accurate count of the number of years of available gravesites remaining in Woodlawn Cemetery and provide a report that would outline the future needs including, but not limited to: interment demand; land purchase and capital cost estimates; location options; and management strategies.

**Operating Impact**

The future operating impact will be identified in the Master Plan.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Feasibility Study	0.0	80.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>80.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
CY CAPITAL RESERVE	0.0	80.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>80.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1657 CY-WOODLAWN CEMETERY ROADWAY UPGRADE**

<b>Project Status</b>	Open	<b>Year Identified</b>	2012
<b>Project Type</b>	REJUVENATION	<b>Manager</b>	Gerald Rees
<b>Asset Type</b>	Cemeteries - Land Improvement	<b>Est. End Date</b>	-

**Project Description**

This project involves the upgrading of existing roadway infrastructure at Woodlawn Cemetery to accommodate increased vehicular traffic and provide access to future burial areas. Upgraded roadways ensures Woodlawn Cemetery is safely accessible for all citizens using all modes of transportation.

**General Comments**

Road conditions at Woodlawn Cemetery were assessed in 2014 with 33,600 square meters of cemetery roadway rated as being in poor condition.

The road upgrades were phased in over four years. The 2018 budget allows for the upgrading of the final 7,600 square meters, bringing all primary roadways within Woodlawn Cemetery to good condition.

The next phase of the project, contemplated to begin in 2019, involves the upgrading of secondary roadways within Woodlawn Cemetery.

**Prior Budget Approval**

\$600,000

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Construction	190.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>190.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
RESERVE FOR CAPITAL EXPENDITURES	190.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>190.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1658 CY-PARKS NEW SATELLITE MTNC BLDG**

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Darren Crilly
Asset Type		Est. End Date	-

**Project Description**

This project allows for the implementation of service review findings that indicate an expansion of Park maintenance buildings is necessary as the area of parks and open space continues to grow.

**General Comments**

To improve operating efficiencies of the Parks Maintenance program, a new service delivery model has been implemented that includes new satellite maintenance buildings and equipment strategically located geographically closer to parks in new neighbourhoods. This reduces travel time to and from maintenance facilities to the parks, and results in more effective use of staff resources and improves the safety of workers that travel on city roadways.

Funding identified in 2018 will be used to design a new satellite maintenance building in the Brighton neighbourhood, with construction planned for 2019. The project has been expanded to include a facility located in the Elk Point neighbourhood, to be designed in 2019.

**Special Note**

The Elk Point maintenance building is subject to the approval of the 2018 Parks & Recreation Levy.

**Operating Impacts**

Each building has an operating impact of \$15,200 (\$3,000 for CBCM contributions, \$2,200 for utilities and \$10,000 for seasonal portable washroom, septic, and fuel storage services).

**Prior Budget Approvals**

\$1,620,000 for design and construction of the six satellite maintenance buildings located at Kinsmen, Hyde, Peter Zakreski and Lakewood Parks and in the Hampton Village and Evergreen neighbourhoods.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Brighton	20.0	250.0	0.0	0.0	0.0
Elk Point	0.0	20.0	250.0	0.0	0.0
<b>Total</b>	<b>20.0</b>	<b>270.0</b>	<b>250.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PARKS AND RECREATION LEVY (MULTI-DISTRICT)	20.0	270.0	250.0	0.0	0.0
<b>Total</b>	<b>20.0</b>	<b>270.0</b>	<b>250.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	15.2	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1660 CY-PARK DEV-FORESTRY FARM PARK**

Project Status	Open	Year Identified	2013
Project Type	REJUVENATION	Manager	Tim Sinclair-Smith
Asset Type	Parks and Open Spaces	Est. End Date	-

**Project Description**

To assist with development and upgrades of recreation amenities at the Saskatoon Forestry Farm Park and Zoo.

**General Comments**

In 2018, the work to be completed in the park area at the Forestry Farm Park and Zoo will include the survey, design and phased construction/construction management for: grading and drainage remediation, irrigation construction, cricket pitch redevelopment, site furniture replacement and expansion, site lighting, parking lot redevelopment, pathways, signage, roadway redevelopment and additional sport field upgrades.

**Operating Impacts**

In 2019, the incremental operating impacts if any for parks maintenance and water costs to be determined based on final design.

**Prior Budget Approval**

\$65,000 Site topographic survey, soil analysis and irrigation as-built drawings

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Construction	450.0	0.0	0.0	0.0	0.0
Design and Contingency	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>500.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
DEDICATED LANDS RESERVE	500.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>500.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1663 PARK DEV - N.E. SWALE**

Project Status	Open	Year Identified	2017
Project Type	PREPAID LAND DEVELOPMENT	Manager	Tyson McShane
Asset Type		Est. End Date	-

**Project Description**

This project involves all aspects of implementation of Phases One and Two of the Meewasin Northeast Swale Master Plan (Master Plan). Specifically, it includes detailed design, tendering and project management of Phase One and Two, and subsequent construction. Phase One includes protective fencing, trail construction, interpretive opportunities and other amenities. Phase Two includes additional trail development and seating/interpretive node construction.

Additionally, this project involves grassland restoration in and around City wet and dry ponds that were previously developed in the Northeast Swale (Swale) and that were developed under a Meewasin Valley Authority (Meewasin) condition that native grassland be re-established.

**General Comments**

In October 2015, City Council approved in principle the Master Plan. The Master Plan includes a significant number of proposed amenities: trails, boardwalks, parking areas, facilities (benches, picnic areas, waste receptacles, etc.), signage, access control, lighting, and the Greenway (trail and transition area adjacent to urban development).

Funds are to be provided to Meewasin for project management and implementation. The City will monitor progress and review detailed designs administratively to ensure compliance with all City policies and plans and the approved Master Plan.

This capital project excludes funding for the Greenway. This is addressed, in part, through the development of the Aspen Ridge neighbourhood (southern Swale boundary) and the remainder (northern Swale boundary) will be addressed through a future capital project.

For 2018, the funding source is an allocation from the Neighbourhood Land Development Fund. This will enable Meewasin to continue with important design work, take steps to secure the Swale from illegitimate access, begin the multi-year process to restore impacted grasslands in and around the wet and dry ponds and begin construction of the internal trail network and some of the seating and interpretive nodes. The funding source for 2019 is a combination of allocation from the Neighbourhood Land Development Fund and Meewasin, with potential sources including fundraising and/or grants. The Meewasin-funded portion is subject to fundraising efforts and portions may be available earlier or later than identified. Due to recent changes to Meewasin's funding agreements, fundraising may take longer than expected due to their limited resources for fundraising and grant writing.

Phases Three through Five are dependent on the pace of development of neighbourhoods in the University Heights Suburban Development Area beyond Aspen Ridge and will be brought forward in future years.

**Prior Budget Approval**

\$500,000 allocation from the Neighbourhood Land Development Fund in 2017

**Operating Impact**

City Operating impacts of approximately \$61,000 annually upon completion of the construction as amenities are developed and require maintenance.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
N.E. Swale	500.0	1,870.0	0.0	0.0	0.0
<b>Total</b>	<b>500.0</b>	<b>1,870.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
NEIGHBOURHOOD LAND DEVELOPMENT FUND	500.0	500.0	0.0	0.0	0.0
PRIVATE CONTRIBUTIONS	0.0	1,370.0	0.0	0.0	0.0
<b>Total</b>	<b>500.0</b>	<b>1,870.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	61.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1664 CY-GORDON HOWE COMPLEX UPGRADES**

<b>Project Status</b>	Open	<b>Year Identified</b>	2016
<b>Project Type</b>	INFRASTRUCTURE MAINTENANCE	<b>Manager</b>	Mike Libke
<b>Asset Type</b>	Parks and Open Spaces	<b>Est. End Date</b>	-

**Project Description**

This project encompasses a number of initiatives planned as upgrades and/or enhancements to various amenities at the Gordie Howe Sports Complex to support programming and events. The sports complex includes the Saskatoon Minor Football Field, Bob Van Impe Softball Field, Joe Gallagher Softball Field, Clarence Downey Speedskating Oval, Gordie Howe Kinsmen Arena, Glenn Reeve Softball Diamonds, Geoff Hughes Baseball Fields, Cairns Baseball Stadium, and Leakos Baseball Field.

**General Comments**

The vision is to create a world-class sports complex that will benefit Saskatoon athletes for generations to come. Thousands of athletes use the facilities each year for practices and local competitions as well as national and world events. The Friends of the Bowl Foundation (FOTBF) is focused on upgrading the facilities to meet the growing demand for sports facilities in Saskatoon and to attract more national and international events.

The various components of the project are being brought forward by the FOTBF and includes a commitment from the FOTBF for funding a number of the projects. The FOTBF will secure the majority of the funding to build or upgrade the following:

- a new 400 meter synthetic track for track and field;
- upgrades to the speed skating oval;
- a new building to replace the existing clubhouse at Cairns Field that will serve track and field, baseball, speed skating and cross country skiing;
- asphalt parking lots in all areas;
- new bleacher seating for track and field, speed skating, and replacement bleachers at Cairns Field;
- new lights and score board for track and field, speed skating, and cross-country skiing;
- a tree planting/removal and relocation project;
- a multi-sport ticket booth to service the track and field, speed skating and baseball;
- a new outdoor multi-purpose turf field with seating for approximately 300;
- And a new Indoor Sports Training Centre for off season training for baseball, softball, field hockey, and track and field;

**Special Note**

Any 2018 budget amount identified as having an Unfunded funding source currently has a 2018 first quarter report to Council pending, identifying their respective funding plans funding source

**Operating Impact**

2019: For Synthetic Track, track bleachers and upgrades to Speed Skating Oval:

- \$30,000 - Civic Buildings Comprehensive Maintenance Reserve
- \$45,000 - Preventative Maintenance

2020: For all remaining capital project components:

- \$66,200 - Civic Buildings Comprehensive Maintenance Reserve
- \$199,300 - Preventative Maintenance
- \$35,000 - Utilities

Additional operating costs and revenues will be determined once operating models and agreements with user groups and partners are established.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
400 Meter Synthetic Track	4,000.0	0.0	0.0	0.0	0.0
Bleacher Seating	1,000.0	0.0	0.0	0.0	0.0
Indoor Sports Training Centre	5,000.0	0.0	0.0	0.0	0.0
Lights and Score Board for Track and Oval	1,000.0	0.0	0.0	0.0	0.0
New Building At Oval: Replace Existing Cairns Building and Grandstands	5,000.0	0.0	0.0	0.0	0.0
Outdoor Turf Field/Seating for 300	4,000.0	0.0	0.0	0.0	0.0
Project Contingency	3,000.0	0.0	0.0	0.0	0.0
Ticket Booth - Multi Sport	350.0	0.0	0.0	0.0	0.0
Tree Removal/Replacement	1,000.0	0.0	0.0	0.0	0.0

## Recreation and Culture

Approved 2018

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Upgraded Asphalt Parking Lots	3,500.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>27,850.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PRIVATE CONTRIBUTIONS	22,850.0	0.0	0.0	0.0	0.0
UNFUNDED MAJOR PROJECTS	5,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>27,850.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	75.0	300.5	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1666 CY-URBAN FORESTRY MANAGEMENT PLAN**

<b>Project Status</b>	Open	<b>Year Identified</b>	2018
<b>Project Type</b>	STUDY/PLANNING	<b>Manager</b>	Michelle Chartier
<b>Asset Type</b>	Studies - Non capitalized expenditure	<b>Est. End Date</b>	-

**Project Description**

This project involves the development of an Urban Forest Management Plan (UFMP) for Saskatoon. Aligned with City Council's strategic priority of Environmental Leadership, the UFMP will provide a comprehensive and strategic approach to protecting, maintaining and enhancing the City's urban forest.

**General Comments**

The City of Saskatoon has many policies, programs, initiatives, and regulations related to trees, but is lacking a comprehensive, long-term vision and strategic direction for protecting and enhancing the urban forest. The 2018 budget will support the development of an UFMP and will include an opportunity for citizens and other stakeholders to discuss key issues and challenges, and provide input to the vision and direction for the City's urban forest. The plan will consider all aspects of the City's Urban Forest and include trees on both public and private property; along city streets; in parks, open spaces and natural areas; and in the yards and landscaped areas of residences, offices, institutions, and businesses.

**Special Note**

This project is allocated funding of \$50,000 from the Deferred Tree Replacement Account.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
	150.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>150.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
CY CAPITAL RESERVE	100.0	0.0	0.0	0.0	0.0
OTHER	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>150.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1669 CY-PSYLLID IMPACTED TREE REMOVAL/REPLANTING**

Project Status	Open	Year Identified	2018
Project Type	ENVIRONMENTAL PROTECTION	Manager	
Asset Type	Parks and Open Spaces	Est. End Date	-

**Project Description**

This project involves the removal of approximately 1,000 psyllid impacted Cottony Ash trees and the replanting of 900 trees.

**General Comments**

In the spring of 2017 a city-wide canopy assessment was undertaken to determine the extent of tree decline related to the Psyllid insect. This assessment identified approximately 1,000 trees that warranted removal and replacement.

In 2018, 1000 Ash trees negatively impacted by psyllids will be removed. 385 of these trees will be replaced with another tree species in 2018 and 515 will be replaced in 2019. It has been determined that about 10% of the existing trees will not be replaced as the planting sites do not meet current setbacks. The replacement trees will result in increased tree diversity and a more resilient urban forest.

**Special Note**

The other funding sources identified in this project are funded \$200,000 from the Deferred Tree Account, \$140,000 from the Parks Stabilization Reserve, and \$67,000 from the Pest Control Reserve.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Tree Removal/Replanting	757.0	423.0	0.0	0.0	0.0
<b>Total</b>	<b>757.0</b>	<b>423.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
CY CAPITAL RESERVE	120.0	0.0	0.0	0.0	0.0
OPERATING FUND CONTRIBUTION	230.0	0.0	0.0	0.0	0.0
OTHER	407.0	0.0	0.0	0.0	0.0
UNFUNDED RCE	0.0	423.0	0.0	0.0	0.0
<b>Total</b>	<b>757.0</b>	<b>423.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1677 TU-STORM WATER MGMT UTILITY BILLING**

Project Status	Open	Year Identified	2009
Project Type	SUPPORT SYSTEMS	Manager	Lowell Reinhart
Asset Type		Est. End Date	-

**Project Description**

This project involves modifications to the corporate billing system to update billing for storm water management charges based on property size and surface imperviousness. Updates will ensure storm water management charges are user-pay based on relative run-off from properties.

**General Comments**

This project involves projecting, managing and business planning of the Storm Water Management Utility Program. It includes an integrity check of the data and updates to the Equivalent Runoff Unit (ERU) assessments for billing purposes.

**Prior Budget Approval**

\$1,026,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Utility Billing Management	80.0	82.0	83.0	85.0	87.0
<b>Total</b>	<b>80.0</b>	<b>82.0</b>	<b>83.0</b>	<b>85.0</b>	<b>87.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES - STORM WATER	80.0	82.0	83.0	85.0	87.0
<b>Total</b>	<b>80.0</b>	<b>82.0</b>	<b>83.0</b>	<b>85.0</b>	<b>87.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1761 LIBR-NEW CENTRAL LIBRARY CONSTRUCTION**

Project Status	Open	Year Identified	2013
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Carol Cooley
Asset Type		Est. End Date	-

**Project Description**

This project involves the development of a new Central Library in Saskatoon's city core.

**General Comments**

The New Central Library will replace the aging Frances Morrison Public Library building and provide state of the art library services to Saskatoon's growing and diverse population. In the 2015 budget, it was approved that \$6.0 million would be spent on the land purchase for the New Central Library. The land purchase is no longer expected to occur in 2015 and has been pushed forward to future budget years. The 2015 approved funding of \$6.0 million from the Public Library Capital Expansion Fund and New Central Library reserve was returned to source per Board approval.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
New Central Library Construction	0.0	6,000.0	500.0	2,000.0	1,000.0
<b>Total</b>	<b>0.0</b>	<b>6,000.0</b>	<b>500.0</b>	<b>2,000.0</b>	<b>1,000.0</b>
<b>FINANCING DETAILS</b>					
LAND SALES	0.0	0.0	0.0	0.0	300.0
PUBLIC LIB CAP EXP'N FUND	0.0	2,150.0	0.0	0.0	0.0
PUBLIC LIBRARY NEW CENTRAL LIBRARY RESERVE	0.0	3,850.0	500.0	2,000.0	700.0
<b>Total</b>	<b>0.0</b>	<b>6,000.0</b>	<b>500.0</b>	<b>2,000.0</b>	<b>1,000.0</b>
<b>Incremental Operating Impacts (000's)</b>					
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1769 LAND DEV'T-MARQUIS INDUSTRIAL AREA**

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type		Est. End Date	-

**Project Description**

This project involves the construction of municipal services on privately owned land in the Marquis Industrial Area.

**General Comments**

This project includes the construction of municipal services North of 71st Street and East of the Canadian National Railway right of way for approximately 140 acres of industrial land. Part of the funding is from the Property Realized Reserve for moving unsuitable material, hauling of suitable material and grading.

**Prior Budget Approvals**

\$87,282,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
2006 - A2 - Private - Siemens Ave	50.0	0.0	0.0	0.0	0.0
2009 - B1 - City (Arthur Rose/Gladstone)	42.0	0.0	0.0	0.0	0.0
2012 - C7 - City (66th, Burron)	57.0	0.0	0.0	0.0	0.0
2012 - C8 - City (64th, 66th, Faithfull Ave & Siemens)	910.0	0.0	0.0	0.0	0.0
2013 - C10 - City (East of Millar)	52.0	0.0	0.0	0.0	0.0
2013 - C11 - City (North of 71st, East of CNR)	5,618.0	988.0	0.0	0.0	0.0
2015 - C12 - City (N of Marquis Dr)	208.0	2,336.0	0.0	0.0	0.0
<b>Total</b>	<b>6,937.0</b>	<b>3,324.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
GENERAL PPD SERV-ELEC-CITY	279.0	0.0	0.0	0.0	0.0
GENERAL PPD SERV-ENGINEERING	5,632.0	3,324.0	0.0	0.0	0.0
PROPERTY REALIZED RES	1,026.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>6,937.0</b>	<b>3,324.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1812 SASKTEL CENTRE-EQUIPMENT PURCHASES**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Trevor James
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project reflects equipment replacement purchases at SaskTel Centre in accordance with SaskTel Centre Reserve Fund Policy 01-0006.

**General Comments**

The 2017 funding is for equipment such as outdoor signage, vehicles, box office system, etc.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Box Office System	10.0	0.0	10.0	0.0	10.0
Computers	0.0	10.0	0.0	10.0	0.0
Concession - Heaters & Poppers	20.0	0.0	0.0	0.0	20.0
Concession Equipment	0.0	0.0	20.0	0.0	0.0
Custodial Equipment	0.0	60.0	0.0	0.0	0.0
Forklift- 5 Ton	0.0	80.0	40.0	0.0	0.0
Ice Decking System	8.0	8.0	8.0	8.0	8.0
Ice Resurfacer	0.0	0.0	0.0	0.0	100.0
Mower	10.0	0.0	0.0	0.0	0.0
POS System	5.0	5.0	5.0	5.0	5.0
Radios	10.0	10.0	10.0	10.0	10.0
Sound System	0.0	0.0	0.0	50.0	0.0
Staging	0.0	0.0	10.0	0.0	0.0
Tables & Draping System	0.0	0.0	10.0	0.0	0.0
Vehicles	0.0	0.0	0.0	15.0	0.0
Video Equipment	10.0	10.0	10.0	10.0	10.0
<b>Total</b>	<b>73.0</b>	<b>183.0</b>	<b>123.0</b>	<b>108.0</b>	<b>163.0</b>
<b>FINANCING DETAILS</b>					
SASKTEL CENTRE EQUIPMENT REPL	73.0	183.0	123.0	108.0	163.0
<b>Total</b>	<b>73.0</b>	<b>183.0</b>	<b>123.0</b>	<b>108.0</b>	<b>163.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1829 AF-SERVICE SASKATOON - SYSTEMS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2015
<b>Project Type</b>	SUPPORT SYSTEMS	<b>Manager</b>	Paul Ottmann
<b>Asset Type</b>	Software	<b>Est. End Date</b>	-

**Project Description**

Capital Projects 1364 - CP Service Saskatoon-Citizen Input/Systems/Standards/Staffing, 1829 - AF Service Saskatoon-Systems, 1942 - AF Corporate Security Plan, and 1949 - AF Service Saskatoon-Staffing Accommodation are inter-related to each other in regards accommodating the vision of the Service Saskatoon citizen service model.

As identified by Deloitte's Enterprise Resource Planning (ERP) Business Case in 2016; the City's current environment consists of more than 279 legacy applications, some of which no longer have vendor support and are nearing the end of their useful life. This includes applications within the core business functions of:

- Human Resources (including time & attendance);
- Payroll;
- Finance;
- Supply chain (procurement and inventory management);
- Work order and activity management.

**General Comments**

The ideal ERP system solution consolidates and integrates the business processing environment by enabling data capture at the source and supporting end to end transaction processing. Public and private sector organizations who have implemented an ERP system realize a number of benefits such as:

- Standardized processes;
- Cost savings;
- Automated workflows;
- Integrated systems;
- Enhanced reporting;
- One source reporting;
- Enhanced controls.

The 2017 budget requirement is for development of a request for proposal to initiate the remainder of the project requirement which involves the purchase and implementation of an ERP solution that will consolidate several City systems and applications into one corporate approach within the above specified core business functions.

2018 and ongoing work with the holistic view of people, process and technology need to be considered while reviewing enterprise-wide capabilities and needs from an end to end perspective. Development and delivery of key programs aligned to the strategic goals of the corporation and the review of operational activities to determine value for money will ensure we are focused on our core business functions.

Service Saskatoon:

Service Saskatoon is based on four pillars including Citizen Input, Staffing, Systems and Standards. An integrated ERP solution would significantly advance Service Saskatoon towards meeting its system goals by providing administration and citizens with:

- Real time information;
- A single source of information;
- Increased accuracy and reliability of data.

The ERP platform will become the foundation that fuels evidence-based decisions, becomes a source of knowledge, creates a repository of data and a tool that helps City leaders better understand and manage risks at the operational, tactical, strategic and reputational levels. A modern ERP solution is an information-technology platform of a growing City.

**Operating Impact**

2019 - \$2,100,000 for software licensing cost

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
ERP System Design	15,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>15,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					

## Corporate Governance and Finance

Approved 2018

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
NBCF - REALLOCATION	15,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>15,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	2,100.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1834 REMAI MODERN- EQUIPMENT PURCHASES**

Project Status	Open	Year Identified	2015
Project Type	EQUIPMENT REPLACEMENT	Manager	Dean Summach
Asset Type		Est. End Date	-

**Project Description**

This project reflects equipment replacement purchases at Remai Modern in accordance with Reserve Fund Policy C03-016.

**General Comments**

The 2018 funding is for equipment such as a point of sale system, electronic equipment and system upgrades.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Equipment Replacement	41.0	86.0	86.0	0.0	0.0
<b>Total</b>	<b>41.0</b>	<b>86.0</b>	<b>86.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
REMAI MODERN EQUIPMENT REPLACEMENT	41.0	86.0	0.0	0.0	0.0
<b>Total</b>	<b>41.0</b>	<b>86.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1876 AF-TENNIS COURT-ACRYLIC SURFACE**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Gord Hundebly
Asset Type		Est. End Date	-

**Project Description**

This cyclical renewal project provides for the reapplication of the acrylic protective coating to existing tennis courts to prevent deterioration of the asphalt base and reapplication of the court lines.

**General Comments**

Current and future funding identified is for the repair of tennis courts based on condition assessments at the time.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Surface Coating	0.0	50.0	0.0	50.0	0.0
<b>Total</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
CIVIC BLDGS COMPR MTNCE	0.0	50.0	0.0	50.0	0.0
<b>Total</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1883 CK-ELECTRONIC RECORDS MANAGEMENT**

Project Status	Open	Year Identified	2009
Project Type	SUPPORT SYSTEMS	Manager	Diane Kanak
Asset Type	Software	Est. End Date	-

**Project Description**

To continue the implementation of the electronic records management system throughout the corporation.

**General Comments**

The City has had an electronic records management system (Documentum Records Manager) in place since 2000. The system is fully utilized in the City Clerk's Office and has been implemented within each department. In 2015, the City Clerk's Office undertook a major upgrade to the current electronic records and information management system. In 2018, the City Clerk's Office will be re-evaluating corporate requirements relating to the electronic records and information management. This will include exploring options to determine the best solution for electronic records and information management to reflect the changing environment and to better meet current and future business requirements and to address an increased volume and reliance on electronic records. Along with the review, will be an update of the City's records retention and disposal schedule, with the goal being to reduce retention, where possible, and related costs. From 2019 to 2021, it is planned to implement a system that is more widely available within the corporation both from a records search and capture standpoint. Management of the corporate records is a legislative requirement under The Cities Act.

**Prior Budget Approval**

\$645,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Equipment Purchase	0.0	250.0	200.0	150.0	72.0
<b>Total</b>	<b>0.0</b>	<b>250.0</b>	<b>200.0</b>	<b>150.0</b>	<b>72.0</b>
<b>FINANCING DETAILS</b>					
CK - CAPITAL RESERVE	0.0	250.0	200.0	150.0	72.0
<b>Total</b>	<b>0.0</b>	<b>250.0</b>	<b>200.0</b>	<b>150.0</b>	<b>72.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1884 CK-ELECTRONIC AGENDA & MEETING MGT SYSTM**

Project Status	Open	Year Identified	2012
Project Type	SUPPORT SYSTEMS	Manager	Diane Kanak
Asset Type	Software	Est. End Date	-

**Project Description**

To implement an Electronic Agenda and Meeting Management System.

**General Comments**

The City Clerk's Office will continue with the implementation of the electronic agenda and meeting management system, to streamline processes and improve access to information from City Council and Standing Policy Committee meetings. In 2018, the five-year agreement will be reviewed and an online option pursued.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
EQUIPMENT PURCHASES	0.0	90.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>90.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
OPERATING FUND CONTRIBUTION	0.0	90.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>90.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1914 FIRE-FIRE STATION NO. 10 - NORTHWEST SASKATOON**

<b>Project Status</b>	Open	<b>Year Identified</b>	2010
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Morgan Hackl
<b>Asset Type</b>	Fire Stations	<b>Est. End Date</b>	-

**Project Description**

This project provides for the construction of a standard fire station (No. 10), to be located in North West Saskatoon and the purchase of a fully equipped fire apparatus and Firefighter protective clothing.

**General Comments**

On October 6, 2003, City Council adopted Standard NFPA 1710 which establishes benchmark response times of 4 minutes for the 'first-in' unit or single unit response and 8 minutes for all apparatus dispatched to a full first alarm assignment. This standard specifies safe and effective emergency response standards for all services provided by the Saskatoon Fire Department in the City of Saskatoon. To achieve that standard, the placement of the fire station is key to the effective and efficient delivery of emergency services to residents in all areas of the City.

The location of Claypool Drive and Latrace Road will provide service within the 4-minute first-in response to the existing areas of Elk Pointe, Blairmore, Hampton Village, Dundonald, Westview, Hudson Bay Park, a portion of Kensington and to annexed lands in North West Saskatoon. It will also be strategically placed to contribute to the 8-minute full first alarm response in all areas west of Warman Road/Wanuskewin Drive and North of 22nd Street, in compliance with NFPA 1710. By positioning Fire Station No.10 in this location, an additional station will not be required in the West sector until there is development west of Neault Road.

Design and construction will commence in 2020 and construction is planned to be completed by the fall of 2021, with the fully equipped fire apparatus ready for service at that time. The initial purchase of protective clothing will be funded from the Fire Capital Reserve.

**Special Note**

The design, construction and equipment is included in the City's Civic Facilities funding plan.

**Operating Impacts**

The station is projected to be completed by the fall of 2021. The annual cost for 20 additional fully-equipped Firefighters and one Inspector is approximately \$2,400,000. The impact to the operating costs for the apparatus and building maintenance is \$200,000 per year on a continual basis. The reserve replacement contributions for equipment and uniforms is estimated at \$70,000.

2021 (prorated from Sept/2021)

- Staffing: \$800,000
- Building Operations: \$67,000

2022 and on-going

- Staffing: \$1,600,000 (total \$2,400,000)
- Building Operation: \$133,000 (total \$200,000)
- Equipment & Uniform Reserve Contribution: \$70,000 (annual)

**Prior Budget Approval**

\$650,000 in 2010 for land acquisition

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Construction	0.0	0.0	500.0	4,660.0	0.0
Design	0.0	0.0	300.0	0.0	0.0
Fire Apparatus	0.0	0.0	0.0	855.0	0.0
Protective Clothing	0.0	0.0	0.0	90.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>800.0</b>	<b>5,605.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
FIRE - CAPITAL RESERVE	0.0	0.0	0.0	90.0	0.0
FUNDING PLAN CONTRIBUTION	0.0	0.0	800.0	5,515.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>800.0</b>	<b>5,605.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1929 AF-CSR BUILDING RENOS**

Project Status	Open	Year Identified	2017
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Jason Kennon
Asset Type		Est. End Date	-

**Project Description**

Modify the Fleet Services building customer entrance to create a safe, customer-focused entry, where the shop office and shop floor are physically separated and disruption is minimized for other staff through a first point of contact directing customers and answering incoming calls on a dedicated line, reducing the number of missed calls.

**General Comments**

This project will complete the work started in 2017 by improve customer service through a dedicated phone line system, promote a safe and healthy working environment for staff on the shop floor and in the office, as well as those visiting or making deliveries, and reduce distracted working conditions in the shop and office.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Building Renos	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
V & E ASSET DISP/ACQ	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1938 AF-PLAY STRUCTURE UPGRDE AND REPL**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	INFRASTRUCTURE MAINTENANCE	<b>Manager</b>	Gord Hundebay
<b>Asset Type</b>	Parks Equipment	<b>Est. End Date</b>	-

**Project Description**

This project involves the repair and modification of the City's play structures located throughout the City's playgrounds to address safety concerns, and the phased rebuilding or replacement of old wooden structures that cannot be repaired. This project also involves the incorporation of accessible components such as gradual ramps, transfer stations, and play features, as well as some accessible resilient surfaces in and around the new or rebuilt play structures.

**General Comments**

The budgeted amount for general repairs represents funds to repair and modify various play structures as recommended by the consultant who was retained to assess the condition of all the play structures throughout the City. The replace/rebuild component will be allocated on a priority basis to the replacement and rebuilding of specific structures that are heavily utilized but can no longer be repaired.

Play structures in Cannon Smith, Dr. J Valens, Wilson, Albert Milne, and the Forestry Farm Zoo are examples of priority areas that are scheduled for replacement in 2019.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Replace/Rebuild Playstructures	0.0	675.0	675.0	675.0	675.0
<b>Total</b>	<b>0.0</b>	<b>675.0</b>	<b>675.0</b>	<b>675.0</b>	<b>675.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED CIVIC BLDGS COMP MNTCE	0.0	675.0	675.0	675.0	675.0
<b>Total</b>	<b>0.0</b>	<b>675.0</b>	<b>675.0</b>	<b>675.0</b>	<b>675.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1939 AF-PADDLING/SPRAY POOL REPLACEMENTS**

Project Status	Open	Year Identified	2012
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Dan Swerhone
Asset Type		Est. End Date	-

**Project Description**

This project consists of the replacement of older paddling pools and spray pools.

**General Comments**

The City operates paddling pools and spray pools with associated recreation buildings. This project continues with the phased replacement of the older facilities when it is no longer feasible and economic to continue to maintain and operate the existing facilities. Paddling and spray pools are planned for upgrades/repairs based on priority needs and prior condition assessment audits.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Construction	0.0	800.0	0.0	800.0	0.0
<b>Total</b>	<b>0.0</b>	<b>800.0</b>	<b>0.0</b>	<b>800.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED CIVIC BLDGS COMP MNTCE	0.0	800.0	0.0	800.0	0.0
<b>Total</b>	<b>0.0</b>	<b>800.0</b>	<b>0.0</b>	<b>800.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1940 AF-GREENHOUSE REPLACEMENT**

Project Status	Open	Year Identified	2012
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Troy LaFreniere
Asset Type		Est. End Date	-

**Project Description**

This project involves the replacement of the existing greenhouse facility at 1101 Avenue P North. Prior Facility assessments indicated replacement of this greenhouse will be required within the next 5 years. Consulting services from industry experts will be necessary to ensure efficient greenhouse design and function is achieved. Funding identified in 2018 will support greenhouse replacement by providing project evaluation, greenhouse design with associated cost options as well as the development of a business case to support future operations.

**General Comments**

The greenhouse operations provide plant propagation and plant maintenance services that are necessary to support the display of live plant material at the Civic Conservatory, City Hall, Leisure Centres, over 900 BID /center median flower pots, and over 800 m2 of park and open space flower beds. The current level of plant display services would not be maintained without a dedicated greenhouse facility providing necessary plant propagation and plant maintenance services. The risks associated with not designing and constructing a replacement greenhouse facility would include, the potential of facility closure due to poor structural condition forcing the discontinuation or suspension of live plant display services.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	0.0	150.0	1,350.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>150.0</b>	<b>1,350.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	150.0	1,350.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>150.0</b>	<b>1,350.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1942 AF-CORPORATE SECURITY PLAN**

<b>Project Status</b>	Open	<b>Year Identified</b>	2017
<b>Project Type</b>	SUPPORT SYSTEMS	<b>Manager</b>	Nicole Garman
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

Capital Projects 1364 - CP Service Saskatoon-Citizen Input/Systems/Standards/Staffing, 1829 - AF Service Saskatoon-Systems, 1942 - AF Corporate Security Plan, and 1949 - AF Service Saskatoon-Staffing Accommodation are inter-related to each other in regards to accommodating the vision of the Service Saskatoon citizen service model.

The City depends on its people and assets to deliver vital services to the citizens of Saskatoon every day. The City has an obligation to protect employees and the visiting public, preserve the availability of assets and assure the continued delivery of services in an effective, safe and sustainable manner.

An appropriate balance of human, physical and operational controls and practices will help ensure achievement of the following objectives:

- Create a safe and secure working environment for employees and elected officials;
- Create a safe and secure environment for the visiting public, contractors and other service providers; and
- Safeguard the capital assets of the corporation.

**General Comments**

The primary focus of the 2018 funding will be to continue implementing the physical controls within City Hall and Civic Square East, expand implementation of the physical controls in other civic facilities, and launch supporting policies, guidelines and training programs that ensure achievement of the Plan's objectives corporate-wide.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Corporate Security Plan	150.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>150.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
AFM - CAPITAL RESERVE	150.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>150.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1948 AF-FLEET GLOBAL POSITIONING SYSTEM**

Project Status	Open	Year Identified	2017
Project Type	SUPPORT SYSTEMS	Manager	Jason Kennon
Asset Type		Est. End Date	-

**Project Description**

The Global Positioning System (GPS) project will allow all city owned vehicles to have GPS components installed. GPS systems provide many benefits including route optimization, improved level of services, location of all fleet assets to support emergency response activities, as well as operational efficiencies.

**General Comments**

The GPS components being reviewed are expected to deliver annual cost savings supporting the four-year Strategic Goal of Continuous Improvement. It also supports the strategic goals of Environmental Leadership and Asset and Financial Sustainability as there are opportunities to reduce spending on fuel and subsequently emissions of greenhouse gases. Fleet Services will realize benefits of adding GPS to support both operations and the asset management plan. Working groups will be established with all civic operations to determine the necessary system requirement and needs of a complete GPS.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Corporate GPS	350.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>350.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
AFM - CAPITAL RESERVE	350.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>350.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1949 AF-SERVICE SASKATOON - STAFFING ACCOMMODATION**

Project Status	Open	Year Identified	2009
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Scott McCaig
Asset Type	Buildings	Est. End Date	-

**Project Description**

Capital Projects 1364 - CP Service Saskatoon-Citizen Input/Systems/Standards/Staffing, 1829 - AF Service Saskatoon-Systems, 1942 - AF Corporate Security Plan, and 1949 - AF Service Saskatoon-Staffing Accommodation are inter-related to each other in regards accommodating the vision of the Service Saskatoon citizen service model.

The purpose of this project is to ensure suitable and sufficient office accommodations are available for the on-going operations of the City of Saskatoon. Included in this is the ongoing evaluation of current and future space requirements, analysis of existing facilities, functional planning and space design considering the four pillars of Service Saskatoon as a basis. Space improvements in various City facilities will occur alongside the identified space requirements.

**General Comments**

Continued efforts will include space improvements at City Hall, Civic Square East, and other Civic office buildings. The primary focus will be the 2nd floor of Civic Square East as this space has been identified as being the next step in relieving the Corporations office space pressures while preparing the Corporation for Service Saskatoon enhancements.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Civic Accommodation	450.0	5,500.0	5,500.0	2,500.0	1,500.0
<b>Total</b>	<b>450.0</b>	<b>5,500.0</b>	<b>5,500.0</b>	<b>2,500.0</b>	<b>1,500.0</b>
<b>FINANCING DETAILS</b>					
CORPORATE CAPITAL RESERVE	450.0	500.0	500.0	500.0	500.0
FUNDING PLAN CONTRIBUTION	0.0	5,000.0	5,000.0	2,000.0	1,000.0
<b>Total</b>	<b>450.0</b>	<b>5,500.0</b>	<b>5,500.0</b>	<b>2,500.0</b>	<b>1,500.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**1963 TU-CORP. ACCESSIBILITY IMPLEMENTATION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	SUPPORT SYSTEMS	<b>Manager</b>	Angela Gardiner
<b>Asset Type</b>	Buildings	<b>Est. End Date</b>	-

**Project Description**

This project addresses the identified priorities of the Accessibility Service Level Guidelines approved in principle by City Council on September 2, 2008 and supported by the recommendations presented in the Accessibility Implementation Action Plan.

**General Comments**

The City of Saskatoon has been addressing access issues for persons in need of accessibility services on an on-going basis. Numerous initiatives have been undertaken involving City of Saskatoon Civic Departments, including the input of persons with disabilities and community advocate groups, for the purpose of improving access for persons with disabilities.

In 2008, an Accessibility Implementation Plan was adopted by City Council. Within this Plan there were eight recommendations for implementation, with priority given to formalizing the facility design standards, infrastructure, snow removal and transit. In 2016 a review of the Implementation plan was conducted to assess progress in addressing the recommendations over the past eight years and to determine priorities for the next five to ten years.

For 2018, the priority project for implementation includes \$75,000 for the Leisure Centre modifications to address deficiencies identified in the barrier free assessment reviews.

The installation of Audible Pedestrian Signals (APS) at key intersections is required to improve mobility for the visually impaired. A list of desired locations has been developed in conjunction with input from the National Foundation of the Blind: Advocates for Equality, the CNIB and the general public. It is the intent of this project to cover the cost of retrofitting five signalized intersections with APS devices every year. To date, this annual quota has been met and approximately 90 intersections are now equipped with APS in accordance with national implementation and design guidelines. Funding will be requested on a bi-annual basis (\$50,000 per year).

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Assessments, Repairs & Modifications	75.0	75.0	0.0	0.0	0.0
Audible Pedestrian Signals - New Locations	50.0	0.0	0.0	0.0	0.0
John Deere Building Accessibility	0.0	50.0	350.0	0.0	0.0
<b>Total</b>	<b>125.0</b>	<b>125.0</b>	<b>350.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
CIVIC BLDGS COMPR MTNCE	75.0	75.0	0.0	0.0	0.0
TRAFFIC SAFETY RESERVE	50.0	0.0	0.0	0.0	0.0
UNFUNDED CIVIC BLDGS COMP MNTCE	0.0	50.0	350.0	0.0	0.0
<b>Total</b>	<b>125.0</b>	<b>125.0</b>	<b>350.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1975 CP-CORPORATE WIDE ENVIRONMENTAL MANAGEMENT SYSTEM**

<b>Project Status</b>	Open	<b>Year Identified</b>	2018
<b>Project Type</b>	ENVIRONMENTAL PROTECTION	<b>Manager</b>	Twyla Yobb
<b>Asset Type</b>	Software	<b>Est. End Date</b>	-

**Project Description**

As Administration has worked to review current regulatory obligations and opportunities for enhancements to civic bylaws, the potential and value of developing an Environmental Management System (EMS) for Saskatoon has been identified.

An EMS is a compliance-focused, continuous improvement framework developed by the International Standards Organization (ISO) with the specific purpose of guiding organizations towards improved environmental performance.

**General Comments**

The specific value of a corporate-wide EMS to the development and implementation of an Environmental Protection Bylaw is that it provides a formal mechanism to review the ever-changing regulatory landscape against civic business processes to ensure the City meets its compliance obligations for due diligence as an approving authority. It also increases the likelihood that opportunities will be identified for improving the City's approval processes in a timely manner and in alignment with desired outcomes for Saskatoon's environmental protection.

The development and the implementation of an EMS along, with a new Environmental Protection Bylaw, can lead to a variety of environmental benefits including a reduction in greenhouse gas emissions, improved effluent quality from sewer and storm systems, and a reduction in waste generation. Recommendations made in regards to an EMS will be considered in conjunction with P1829 Service Saskatoon - Systems - Enterprise Resource Planning initiative.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Environmental Management System	80.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>80.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
CP - CAPITAL RESERVE	80.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>80.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**1994 TU-MARQUIS DR/IDYLYWYLD DR INTERCHANGE**

Project Status	Open	Year Identified	2009
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	David LeBoutillier
Asset Type		Est. End Date	-

**Project Description**

This project involves the construction of an interchange at the intersection of Marquis Drive and Idylwyld Drive. The project to date has been a partnership between the City and Saskatchewan Ministry of Highways and Infrastructure (MHI).

**General Comments**

In 2001, a partnership with MHI was entered into to share the costs of completing the final interchange design. This design project was completed in 2002. Construction of the interchange and associated roadways is projected to take place in 2021. Discussions have taken place with MHI with respect to the funding of the future interchange.

**Special Note**

Provincial funding is subject to government approval upon agreement reached between both the Provincial Government and the City.

**Prior Budget Approvals**

\$313,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Construction	0.0	0.0	0.0	25,000.0	30,000.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>25,000.0</b>	<b>30,000.0</b>
<b>FINANCING DETAILS</b>					
INTERCHANGE LEVY	0.0	0.0	0.0	2,700.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	22,300.0	30,000.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>25,000.0</b>	<b>30,000.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2011 TU-TRANSPORTATION MODEL IMPLEMENTATION**

Project Status	Open	Year Identified	2009
Project Type	SUPPORT SYSTEMS	Manager	David LeBoutillier
Asset Type		Est. End Date	-

**Project Description**

This project is for the ongoing development of the Transportation Model to support the Growing Forward Shaping Saskatoon, and other transportation planning and development initiatives.

**General Comments**

This project consists of the following phases:

- The first phase was for the purchase of a new transportation modelling software package, staff training and the development of a new City Transportation Model.
- The second phase involved the completion of a household travel survey (or, Origin-Destination study) in the fall of 2013. The information from the survey has been used to support the ongoing development of a detailed, multi-modal transportation model which supports the Growth Plan and other transportation planning and development initiatives.
- The next phase of the model design, which started in 2016 and continues in the future years is the ongoing model maintenance and development to align with the growth and employment plans. In 2020, an investment of \$150,000 is shown as a model update to reflect the growth of the region and network changes since the last revision; the cost will be shared with MHI. In 2022 an investment of \$300,000 is shown as the development and expansion of the model to fully incorporate the development of a regional transportation plan.

**Prior Budget Approvals**

\$1,011,000

Prior budget has been used for software purchase and model development.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Model Maintenance and Development	0.0	0.0	150.0	0.0	300.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>150.0</b>	<b>0.0</b>	<b>300.0</b>
<b>FINANCING DETAILS</b>					
TRANSP INFRAS EXPANSION	0.0	0.0	150.0	0.0	300.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>150.0</b>	<b>0.0</b>	<b>300.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2013 TU-CIRCLE DR/AIRPORT DR GRADE SEPARATION**

Project Status	Open	Year Identified	2010
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	David LeBoutillier
Asset Type		Est. End Date	-

**Project Description**

This project involves the construction of a grade separation at Circle Drive and Airport Drive.

**General Comments**

This intersection carries 43,800 vehicles daily and is among the highest volume intersections in the City. The construction of the grade separation is planned beyond 2022 at an estimated cost of \$35.0 million.

Subject to funding availability in 2019 a verification study to confirm the functional plan of the interchange including public consultation will be carried out. If funded, external service providers will be used to carry out the study.

**Prior Budget Approvals**

\$100,000 - functional design and pre-engineering

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Construction	0.0	70.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>70.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	70.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>70.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2020 TU-17TH STREET CORRIDOR EXTENSION**

Project Status	Open	Year Identified	2009
Project Type	REJUVENATION	Manager	Jay Magus
Asset Type		Est. End Date	-

**Project Description**

This project involves the extension of 17th Street from Avenue P to 11th Street West.

**General Comments**

This project includes the extension of 17th Street from its present terminus at Avenue P to 11th Street West. It also includes the closure of the intersection at Avenue H and 11th Street West.

**Prior Budget Approvals**

\$116,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
17th Street Corridor Reconstruction/Extension	0.0	0.0	0.0	844.0	9,300.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>844.0</b>	<b>9,300.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	0.0	1,468.0
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	0.0	844.0	7,832.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>844.0</b>	<b>9,300.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2025 TU-MARQUIS DR/HWY 16 GRADE SEPARATION**

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	David LeBoutillier
Asset Type		Est. End Date	-

## Project Description

This project involves the design and construction of the grade separation at Marquis Drive and Highway 16 North.

## General Comments

A functional plan has been completed. Discussions with Ministry of Highways and Infrastructure (MHI) are ongoing regarding the timing and financing of design and construction.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Marquis Dr/Hwy 16 Grade Separation	0.0	70.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>70.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	70.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>70.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2037 TU-SNOW MANAGEMENT FACILITIES**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Eric Quail
Asset Type		Est. End Date	-

**Project Description**

This project will involve the design, environmental monitoring and construction of three permanent snow management facilities. A fourth facility was constructed as part of the Civic Operations Centre project.

**General Comments**

A need for three permanent sites for snow management facilities are required for 2020/2021 snow season and to stop the existing inefficient operation of snow storage areas and disruption to the community due to the ongoing relocation of sites each season. Once land is secured, funding opportunities for the development of facilities are possible.

The first phase is site evaluation, land purchase, and snow storage area set up for operation as currently practiced until 2023 when the proposed plan for development begins (phase 1 starts with securing the Southeast site, followed by the Northwest, and then the Northeast). The 2020 plan is for preliminary set up on the Southeast Development site including access to the city's storm collection system as well as to secure land for the Southeast, Northwest and Northeast quadrants of the city in advance of city development.

**Operating Impacts**

2023 - \$44,300

2024 - \$44,300

2025 - \$44,300

Proposed Rehabilitation Reserve Transfers

2023 - \$15,000

2024 - \$15,000

2025 - \$15,000

**Prior Budget Approvals**

\$1,110,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
NorthEast Facility Development	0.0	0.0	902.0	0.0	0.0
Northwest Facility Development	0.0	0.0	902.0	0.0	50.0
SouthEast Facility Development	0.0	0.0	5,925.0	50.0	100.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>7,729.0</b>	<b>50.0</b>	<b>150.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	0.0	7,729.0	50.0	150.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>7,729.0</b>	<b>50.0</b>	<b>150.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



## 2040 TU-UNDERWATER PIER INSPECTIONS

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Todd Grabowski
Asset Type		Est. End Date	-

### Project Description

Regular inspection of all river piers is required to ensure the capacity of river bridges as well as monitor scour around the piers. This inspection is provided by specialized external consultants and service providers.

### General Comments

Inspection of river piers should be inspected every five years as per recommendations by National Bridge Inspection Standards.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Inspections - Consultants	0.0	105.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>105.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	105.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>105.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2043 TU-CURB REPLACEMENT/REHABILITATION**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Mitchell Parker
Asset Type		Est. End Date	-

**Project Description**

This project provides for the replacement of long sections of curbing. This work will be done in conjunction with other surface and boulevard rehabilitation or in conjunction with other stand alone locations where future rehabilitation of adjacent structures will not impact the curbing alignment and grade.

**General Comments**

Estimated costs for the removal and replacement of curbs is \$250 per lineal metre.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Curb Replacement/Rehabilitation	200.0	200.0	200.0	200.0	200.0
<b>Total</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-TRANSPORTATION	200.0	200.0	200.0	200.0	200.0
<b>Total</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2048 CY-FFP & ZOO MASTER PLAN IMPLEMENTATION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2006
<b>Project Type</b>	REJUVENATION	<b>Manager</b>	Tim Sinclair-Smith
<b>Asset Type</b>	Buildings(Parks & Open Spaces)	<b>Est. End Date</b>	-

**Project Description**

This project involves the refresh and implementation of the Forestry Farm Park & Zoo Master Plan.

**General Comments**

Stantec Consulting completed the Master Plan in June 2005 which was approved by City Council in April 2006. This was based upon the approved Program Plan, the Branding and Visual Identity Plan, and an independent assessment of existing exhibits and facilities within the Park and Zoo. In 2018, the plan is to do a refresh of the Master Plan to set the direction based on new industry standards and continuous improvement opportunities now identified utilizing available funds in the Animal Trading account.

The 2018 budget provides funds for the continuation and finalization of upgrades to rebuild the Park entrance road.

**Operating Impact**

2019 - No additional funds would be requested as it is an existing road being improved

**Prior Budget Approval**

\$489,000 Design and Construction of a portion of the Park entrance road

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Aviaries	0.0	50.0	0.0	0.0	0.0
Master Plan Refresh	50.0	0.0	0.0	0.0	0.0
Park Entrance Road Rebuild	425.0	0.0	0.0	0.0	0.0
Pathway Improvements - Zoo	0.0	50.0	0.0	50.0	0.0
Phase II Parking Lot	0.0	0.0	0.0	150.0	0.0
Walking Pathway for Park & Picnic Sites	0.0	0.0	60.0	0.0	0.0
<b>Total</b>	<b>475.0</b>	<b>100.0</b>	<b>60.0</b>	<b>200.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ANIMAL TRADING RESERVE	50.0	0.0	0.0	0.0	0.0
FORESTRY FARM PARK DEVELOPMENT RES	50.0	0.0	0.0	0.0	0.0
FORESTRY FARM PK & ZOO CAPITAL RESERVE	150.0	100.0	60.0	200.0	0.0
RESERVE FOR CAPITAL EXPENDITURES	225.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>475.0</b>	<b>100.0</b>	<b>60.0</b>	<b>200.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2050 US-CONSTRUCTN & DEMOLITION WASTE MGT CTR - RECOVERY PARK**

Project Status	Open	Year Identified	2009
Project Type	ENVIRONMENTAL PROTECTION	Manager	Josh Quintal
Asset Type	Landfill	Est. End Date	-

**Project Description**

This project involves the development of a Construction and Demolition (C&D) Waste Management Centre (WMC) also known as Recovery Park.

**General Comments**

This site was temporarily closed due to Circle Drive South related construction. The site adjacent to the Landfill had been collecting inert materials including building demolition material (concrete, asphalt, and masonry), roadway material, glass and porcelain. This material was being used in road construction projects throughout the City offsetting the costs (time and fuel) and emissions associated with virgin aggregate production and hauling. Opportunities exist for revenue including tipping fees and proceeds from the sale of sorted or processed construction and demolition materials.

Future plans for the site include the acceptance and processing of all recyclable or reusable construction materials, relocation of the public waste transfer station, and the possible establishment of a reuse facility. The site may also manage soils and/ or compostable materials based on City-wide soils handling and composting requirements.

Standing Policy Committee on Environment, Utilities and Corporate Services May 8 2017 unanimously recommended to Council that the Administration prepare and release a Request for Proposal for the design and construction of Phases 1 and 2 of Recovery Park. Future requirements are also included for commissioning and access road realignment in partnership with SaskPower for site security and public safety.

The Administration is exploring options to attain the remaining \$11.6 million as well as additional funding for future phases through the new Green Infrastructure component of the Federal Building Canada funding program.

**Operating Impacts**

Recovery Park and preliminary feasibility studies indicate a potential \$250,000 operating increase in order for the program to deliver on the required operational success during the commissioning and transitional period.

**Special Note**

Any 2018 budget amount identified as having an Unfunded funding source currently has a 2018 first quarter report to Council pending, identifying their respective funding plans funding source.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Recovery Park	11,600.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>11,600.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	11,600.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>11,600.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	250.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2051 US-LANDFILL OPTIMIZATION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2011
<b>Project Type</b>	ENVIRONMENTAL PROTECTION	<b>Manager</b>	Scott Theede
<b>Asset Type</b>	Landfill	<b>Est. End Date</b>	-

**Project Description**

This project includes items identified in the Integrated Landfill Management Plan of 2011 that will be required to increase the available airspace and maximize the overall life of the Landfill.

**General Comments**

Capital requirements for Landfill optimization include filling inefficiently filled areas of the Landfill to recapture airspace for use. A variety of safety and environmental improvements are also required including improving surface water management and improving site conditions and customer service.

This work will be done using external service providers.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Landfill Demolition/New Liner D+E	500.0	500.0	1,800.0	6,000.0	0.0
Landfill Surface Water Management Improvements	0.0	0.0	0.0	200.0	50.0
Parcel F Remediation	200.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>700.0</b>	<b>500.0</b>	<b>1,800.0</b>	<b>6,200.0</b>	<b>50.0</b>
<b>FINANCING DETAILS</b>					
LANDFILL REPLACEMENT RESERVE	700.0	500.0	1,800.0	6,200.0	50.0
<b>Total</b>	<b>700.0</b>	<b>500.0</b>	<b>1,800.0</b>	<b>6,200.0</b>	<b>50.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2079 AF-PROPERTY REASSESSMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	SUPPORT SYSTEMS	<b>Manager</b>	Shelley Sutherland
<b>Asset Type</b>	Studies - Non capitalized expenditure	<b>Est. End Date</b>	-

**Project Description**

This project is to provide for the implementation and defence of a reassessment that is required to be completed every four years in the Province of Saskatchewan. Reassessments have been completed every four years since 1997.

**General Comments**

In 2009, a new valuation approach was introduced in the property assessment process. Income producing properties were valued utilizing income (rental) approaches to value where appropriate.

This capital project provides funding to contract specialists to assist in the determination of (and some assistance in the defence of) assessment values for high-value, complex properties. As well, a reassessment requires that all properties receive an assessment notice which requires increased associated paper and postage costs. As in past reassessments the generation and mailing of preview letters is also included.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Property Reassessment	0.0	100.0	250.0	100.0	0.0
<b>Total</b>	<b>0.0</b>	<b>100.0</b>	<b>250.0</b>	<b>100.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
AFM - CAPITAL RESERVE	0.0	100.0	250.0	100.0	0.0
<b>Total</b>	<b>0.0</b>	<b>100.0</b>	<b>250.0</b>	<b>100.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2095 ACCESS TRANSIT-BUS REPLACEMENTS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Bob Howe
<b>Asset Type</b>	Transit Buses	<b>Est. End Date</b>	-

**Project Description**

This project provides for the ongoing scheduled replacement of existing lift-equipped buses used in the Access Transit System.

**General Comments**

With the expansion of the fleet over the last few years, Transit has been able to increase the useful life (mechanical and structural integrity) of the fleet from a five year to a seven year life cycle. An accessible bus is \$140,000 which includes a radio and a mobile data terminal (MDT).

City Council adopted the report called "Building Better Transit: an Asset Management Plan for Transit and Access Transit Fleet" in July 2016. With the announcement of the Growing the Middle Class Infrastructure Plan by the Federal Government, City Council approved the Public Transit Infrastructure Fund strategy in principle to purchase up to 12 access buses over the period 2016 to 2018. In 2016, an order of four Access Transit coach buses at an estimated cost of \$560,000 was placed and expected for delivery in 2017.

From 2017 through 2019, Access Transit is planning to purchase up to eight buses worth \$1.0 million.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Access Transit Bus Replacement	280.0	280.0	280.0	280.0	280.0
<b>Total</b>	<b>280.0</b>	<b>280.0</b>	<b>280.0</b>	<b>280.0</b>	<b>280.0</b>
<b>FINANCING DETAILS</b>					
ACCESS TRANSIT CAPITAL RESERVE	280.0	280.0	280.0	280.0	280.0
<b>Total</b>	<b>280.0</b>	<b>280.0</b>	<b>280.0</b>	<b>280.0</b>	<b>280.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

## 2097 TR- BUS SEAT REPLACEMENT

Project Status	Open	Year Identified	2009
Project Type	EQUIPMENT REPLACEMENT	Manager	Paul Bracken
Asset Type		Est. End Date	-

### Project Description

This project provides for the ongoing replacement of bus operator seats with high quality seats.

### General Comments

The new seats are ergonomically friendly, aid in the prevention of back problems, and result in reduced worker compensation claims. The old seats are very costly to maintain and some of the repair parts are hard to obtain due to obsolescence. This plan is to replace 10-12 bus seats per year.

### Prior Budget Approvals

\$440,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Equipment Purchases	0.0	50.0	0.0	75.0	0.0
<b>Total</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>	<b>75.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
TRANSIT CAPITAL PROJECTS RESERVE	0.0	50.0	0.0	75.0	0.0
<b>Total</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>	<b>75.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**2101 CY-GOLF COURSE IMPROVEMNTS & EQUIP REPL.**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Andrew Roberts
<b>Asset Type</b>	Golf Courses	<b>Est. End Date</b>	-

**Project Description**

During 1998, City Council approved the Golf Course Program value-for-money audit recommendation that management develop a long-term capital plan with sufficient cash flow to fund and finance capital replacement expenditures for the three municipal golf courses (Holiday Park, Silverwood and Wildwood golf courses). In response to the audit recommendations, in March 2002 City Council approved the Golf Course Capital Reserve (Bylaw No. 6774). The purpose of the reserve is to finance long-term capital plans that included replacement of equipment and vehicles, and expansion and redevelopment of course facilities and services.

**General Comments**

The capital projects for 2018 are:

Equipment Replacement:

Holiday Park Golf Course:

\$80,000 - Diesel Self-Propelled Fairway Mower

Silverwood Golf Course:

\$170,000 - Diesel Self-Propelled Greens-mower (Quantity 3) with attachments.

Improvements:

\$325,000 - Paving of Wildwood Golf Course Parking Lot and Clubhouse Area

**Operating Impact**

2019 - \$2,500 Wildwood Golf Course Buildings and Grounds Maintenance

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Golf Course Equipment Replacement	250.0	250.0	250.0	250.0	250.0
HPGC Equipment Storage	0.0	0.0	425.0	0.0	0.0
HPGC Parking Lot/Clubhouse Paving	0.0	0.0	0.0	425.0	0.0
WWGC Parking Lot/Cart Path Paving	325.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>575.0</b>	<b>250.0</b>	<b>675.0</b>	<b>675.0</b>	<b>250.0</b>
<b>FINANCING DETAILS</b>					
GOLF COURSE CAPITAL RESERVE	575.0	250.0	675.0	675.0	250.0
<b>Total</b>	<b>575.0</b>	<b>250.0</b>	<b>675.0</b>	<b>675.0</b>	<b>250.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	2.5	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2102 CY-SPORTFIELD DEVELOPMENT & IMPROVEMENTS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	INFRASTRUCTURE MAINTENANCE	<b>Manager</b>	Brad Babyak
<b>Asset Type</b>	Parks and Open Spaces	<b>Est. End Date</b>	-

**Project Description**

This project involves the development and upgrading of sport fields and amenities in Multi-District, District, and Special Use Parks to ensure the quality of playing fields for the safety and enjoyment of all participants.

**General Comments**

The Multi-District and District Parks accommodate the recreational requirements of the sport user groups, including minor and adult sport leagues, City-wide programs, and national/international competitions.

As part of the long-term development plan focusing on the continual redevelopment of the City's sport fields, Administration is working in conjunction with the sport field user groups and residents to identify both immediate and long-term facility program and amenity priorities and requirements.

**Riversdale Kiwanis Park (2018-2020)**

The 2018 plan would include survey and design (\$30K) of the entire parcel to improve drainage for the programming area. Diamond #2 would be upgraded to improve field drainage/amenities (\$335K). A two year watering plan would be included to ensure that new seed would be established on diamond #2.

The 2020 plan would upgrade amenities on Diamond 1; and Diamond #2 would be brought on line for use that year.

**Bishop James Mahoney Park (2018-2019):**

The 2018 plan will include survey and design of the field upgrade (\$30K).

The 2019 plan involves improvements to the Bishop James Mahoney District Park. Diamond #1 will be upgraded to ensure outfield slopes are adjusted to allow for a safe playing surface with proper drainage; and would include an irrigation upgrade for that diamond (\$315K).

**Hudson Bay Industrial Park (2022-2024)**

The 2022-2024 plan involves the development of a softball/slo-pitch complex to accommodate adult league and tournament play.

**Operating Impact**

2019 - \$2,800 for an increase in service from an above basic Class III to above basic service Class II (Riversdale Kiwanis #2)

2020 - \$6,500 for an increase in service (\$2,800 for Riversdale Kiwanis #1 from an above basic class III to an above basic Class II); and (\$3,700 for Bishop James Mahoney Diamond #1 from an above basic class III to an above basic Class II).

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Bishop James Mahoney Park	30.0	315.0	0.0	0.0	0.0
Riversdale Kiwanis Park	365.0	0.0	105.0	0.0	0.0
<b>Total</b>	<b>395.0</b>	<b>315.0</b>	<b>105.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PARK ENHANCE RES	395.0	315.0	105.0	0.0	0.0
<b>Total</b>	<b>395.0</b>	<b>315.0</b>	<b>105.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	2.8	6.5	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2114 CY-VICTORIA PARK - UPGRADES**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	REJUVENATION	<b>Manager</b>	Brad Babyak
<b>Asset Type</b>	Parks and Open Spaces	<b>Est. End Date</b>	-

**Project Description**

This project involves Victoria Park upgrades as outlined in the Victoria Park Program Plan, adopted by City Council in June 2004. This upgrade is planned to be an extension of the River Landing Phase II development, which will connect Victoria Park to River Landing.

**General Comments**

Public and stakeholder consultation occurred in 2009 on the program plan for the City Gardener's Site and to confirm the program plan requirements originally approved in the 2004 Victoria Park Program Plan. Through the Recreation and Parks Master Plan, festivals and parks were both ranked highly in residents' opinions. Of the residents surveyed, 79% felt the need for more festival space was a high priority. The development of Victoria Park will address this need and provide residents with adequate parking for festivals, recreational activities, and better linkage for pedestrian traffic.

In 2019, the community and stakeholders will be re-engaged for updated feedback, and will review the overall park program plan to confirm construction priorities for 2020. This work will be done undertaken with existing operating funds.

The 2020 plan includes the development of an expanded parking lot which will address existing and future parking needs (such as overflow parking during large special events and festivals).

The 2021 plan includes pathway linkages to improve pedestrian circulation within the park. This pathway system will give pedestrians access along Spadina Crescent and better connectivity to the existing site amenities

The 2022 plan involves the addition of site furniture and pathway lighting.

**Prior Budget Approval**

\$513,000 Design and construction of the City Gardener's Site (1.13 acres) and approximately 5 acres of Victoria Park, including the festival site.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Construction - Park	0.0	0.0	445.0	400.0	330.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>445.0</b>	<b>400.0</b>	<b>330.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED RCE	0.0	0.0	445.0	400.0	330.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>445.0</b>	<b>400.0</b>	<b>330.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2119 POLICE-RADIO REPLACEMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2010
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Earl Warwick
<b>Asset Type</b>	Communication systems	<b>Est. End Date</b>	-

**Project Description**

This project provides for the replacement and/or addition of police radio equipment.

**General Comments**

Radio communication is critical to police operations. The current fleet of police portable and in-car mobile radios have an anticipated useful life of approximately 9 years. This project addresses the eventual replacement of these essential communication assets. The 2018 capital budget is for the replacement of portable radios, in-car mobile radios and new encryption technology.

**Operating Impact**

No increase anticipated for 2018.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
	318.0	0.0	0.0	0.0	0.0
Equipment Purchases	0.0	585.0	325.0	325.0	325.0
<b>Total</b>	<b>318.0</b>	<b>585.0</b>	<b>325.0</b>	<b>325.0</b>	<b>325.0</b>
<b>FINANCING DETAILS</b>					
POLICE RADIO RESERVE	318.0	325.0	325.0	325.0	325.0
<b>Total</b>	<b>318.0</b>	<b>325.0</b>	<b>325.0</b>	<b>325.0</b>	<b>325.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2162 CY-URBAN DESIGN - BIDS**

Project Status	Open	Year Identified	2009
Project Type	REJUVENATION	Manager	Paul Whitenect
Asset Type		Est. End Date	-

**Project Description**

This project includes the design and construction of comprehensive streetscape projects within the Downtown, Broadway, and Riversdale Business Improvement Districts. The priority of projects over the next number of years will be determined by the need to coordinate streetscape projects with underground utility replacement programs, the River Landing development, partnering opportunities, and with opportunities to promote multi-modal transportation by improving pedestrian conditions, transit and cycling conditions and facilities, and creating on-street parking facilities to increase parking revenues.

**General Comments**

Idylwyld Drive Streetscape Master Plan:

The City Centre Plan, the North Downtown Master Plan and the Growing Forward! Plan all indicate that an improved streetscape along the length of Idylwyld Drive is needed. The project involves the design and construction of a comprehensive streetscape project for Idylwyld Drive from the Senator Sid Buckwold Bridge to Circle Drive. This capital budget will only account for construction from the Senator Sid Buckwold Bridge to 25th Street.

This project involves a traffic study, an environmental site assessment, and the design of a streetscape improvement plan, as well as phased construction which may utilize an incremental approach to capitalize on the time-sensitivity of interventions. The redevelopment of Idylwyld Drive as an enhanced multi-modal corridor will contribute to pedestrian, cyclist, and transit use. The study is expected to conclude early 2018. Some funding for the Urban Design reserve will be dedicated to a gateway project at 20th Street and Idylwyld Drive, and a capital budget submission to begin implementation of the Idylwyld Master Plan is expected for the 2019 construction season.

Streetscape Rehabilitation:

This project involves replacing aging amenities (benches, garbage cans, poster boards, and tree grates) on 21st Street, 2nd Avenue, 20th Street West and potentially other locations within the BID boundaries. These areas are some of the earliest streetscape projects in the City and busiest pedestrian areas in the City centre with up to 7,000-8,000 pedestrians using the streets per day. The amenities are heavily used and are in need of major repairs or replacement.

3rd Avenue - 19th Street Intersection & Adjoining Roadways:

This project involves streetscaping 19th Street; between 2nd and 3rd Avenue. The streetscaping of 3rd Avenue north of 22nd Street will become part of the Growth Plan to Half a Million project. The 19th Street intersection will be constructed in 2020 and will be coordinated with River Landing Parcel Y construction.

**Prior Budget Approvals**

\$500,000 Idylwyld Drive Master Plan and design

\$1,500,000 Streetscape Rehabilitation

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
3rd Avenue: 19th Street Intersection	0.0	0.0	0.0	100.0	2,035.0
Idylwyld Drive: Bridge to Circle Drive	0.0	1,000.0	1,000.0	1,000.0	0.0
Streetscape Rehabilitation Project	1,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,000.0</b>	<b>1,000.0</b>	<b>1,000.0</b>	<b>1,100.0</b>	<b>2,035.0</b>
<b>FINANCING DETAILS</b>					
STREETSCAPE RESERVE-BID	1,000.0	1,000.0	1,000.0	1,100.0	2,035.0
<b>Total</b>	<b>1,000.0</b>	<b>1,000.0</b>	<b>1,000.0</b>	<b>1,100.0</b>	<b>2,035.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2166 CY-URBAN DESIGN - CITY-WIDE**

Project Status	Open	Year Identified	2009
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Paul Whitenect
Asset Type		Est. End Date	-

**Project Description**

This project includes the design and construction of comprehensive streetscape projects outside the Downtown, Broadway and Riversdale Business Improvement Districts. Projects are defined in terms of pedestrian amenity improvements, safety, and support for multi-modal travel through the City.

**General Comments**

Approved by City Council in 2009, the Central Avenue Master Plan called for streetscape improvements from 107th Street to 115th Street, including the commercial and industrial properties along Gray Avenue. Phases 1 and 2 of the Central Avenue streetscaping have been completed. The remaining work will be split into two additional phases, the first of which is planned for 2018. This work will complete the South portions from 107th Street to 109th Street and include a gateway feature to the Sutherland BID area. The estimate for this phase is \$1.5 million which includes design and construction costs.

The fourth and final phase will address the pedestrian crossing of the railway to improve pedestrian safety, complete the North portion of Central Avenue to 115th Street. Completion of the fourth phase will depend on funding availability and negotiation with the railway company. The \$1.2 million estimate includes for design and construction costs. The date for this work has not been determined at this time.

**Operating Impact**

Operating impacts will be determined once specific design elements are identified and will include maintenance, snow removal, irrigation/maintenance of plant material, and street lighting.

**Prior Budget Approval**

\$2,650,000 Central Avenue detailed streetscape design and construction

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Central Avenue	0.0	1,500.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>1,500.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	1,500.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>1,500.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2169 CY-BLDG STANDARDS PROGRAM ENHANCEMENTS**

Project Status	Open	Year Identified	2010
Project Type	SUPPORT SYSTEMS	Manager	Kara Fagnou
Asset Type		Est. End Date	-

**Project Description**

This project involves systems upgrades related to existing programs and the development of new programs, with a focus on increasing online services.

**General Comments**

Building Standards Program Upgrades:

Related work will include POSSE upgrades needed to maintain our existing programs and the development of POSSE workflows for new programs and services. The project will also include marketing and costs associated with creating and delivering educational awareness. Prioritization of program upgrades will be aligned with customer and staff needs.

For 2018, areas included in the project are encroachment agreements, occupancy permits, building bylaw implementation, commercial building permit process review, and the adoption of the 2015 NBC and Energy Code.

Customer Service Enhancements:

Customers indicated through the 2015 Building Standards customer satisfaction survey that they would like to have more online options available throughout the building permit process. Online applications and being kept informed throughout the building permit application and inspection process have been identified as key drivers for customer satisfaction.

2017 was the first year of a targeted four-year action plan to increase online delivery of programs and services aligned with Service Saskatoon and Building Standards customer expectations. Building Standards anticipates on investing \$175,000 (\$100,000 full carryover from 2017) in 2018 to launch the action plan, as well as a projected \$75,000 in each of 2019, 2020, and 2021 to support the movement online. 2018 will focus on:

- Rollout of an online portal for residential permit applications;
- Exploring opportunities to drive customers to online services with respect to booking inspections;
- Investigating software and hardware to support digital plan review;
- Leveraging technology to develop processes to support the completion of follow-up inspections and closing of permits

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Building Standards Program Upgrades	100.0	100.0	0.0	0.0	0.0
Customer Service Enhancements	75.0	75.0	75.0	75.0	0.0
<b>Total</b>	<b>175.0</b>	<b>175.0</b>	<b>75.0</b>	<b>75.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BLDG PERMITS/INSPECT STAB RESERVE	175.0	175.0	75.0	75.0	0.0
<b>Total</b>	<b>175.0</b>	<b>175.0</b>	<b>75.0</b>	<b>75.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2180 AF-CIVIC FACILITY SITE MAINTENANCE**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	INFRASTRUCTURE MAINTENANCE	<b>Manager</b>	Troy LaFreniere
<b>Asset Type</b>	Parking Lots	<b>Est. End Date</b>	-

**Project Description**

This project provides for a three phased approach to bring the parking lot, private roadway and underground service requirements at the civic leisure centres up to standard and maintaining them at that standard.

Phase 1 - Conditional Assessment - Assess the condition of the parking lots, private roadways and underground services to determine the scope of the work required to bring these areas up to standard. Priorities will be established based on condition of the infrastructure and its impact to and by the customer.

Phase 2 - Undertake the work to bring the parking lots and paved areas to standard.

Phase 3 - Creation of a Civic Facility Site Replacement Reserve.

**General Comments**

Currently, the process for capital construction of new facilities does not include a future budget to maintain, repair or replace infrastructure components such as water/sewer lines, storm lines, manholes, signs, curbs, sidewalks, fencing, lot lighting, roads and paving, at the end of their life cycle. Repairs or replacements are done when a component has completely failed.

An \$11.0 million deficit has been identified in the maintenance, repair and/or replacement of infrastructure site components which are at or near the end of their life cycle and will soon need to be addressed. With prior budget approvals funding, a condition assessment has been carried out to determine the scope of the work required and to establish priorities.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Design & Constr'n - Civic Leisure Centres	350.0	500.0	500.0	500.0	500.0
Other Civic Property	0.0	1,500.0	100.0	150.0	150.0
<b>Total</b>	<b>350.0</b>	<b>2,000.0</b>	<b>600.0</b>	<b>650.0</b>	<b>650.0</b>
<b>FINANCING DETAILS</b>					
FACILITY SITE REPL RES	350.0	500.0	600.0	650.0	650.0
UNFUNDED FACILITY SITE REPL RES	0.0	1,500.0	0.0	0.0	0.0
<b>Total</b>	<b>350.0</b>	<b>2,000.0</b>	<b>600.0</b>	<b>650.0</b>	<b>650.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**2197 WTP - WATER CONSERVATION INITIATIVE**

Project Status	Open	Year Identified	2009
Project Type	ENVIRONMENTAL PROTECTION	Manager	Amber Weckworth
Asset Type		Est. End Date	-

**Project Description**

The water conservation program addresses the continued mandate for water conservation first identified in the Water Conservation Implementation Plan in the Long Term Capital Development and Expansion Plan.

**General Comments**

Included in the program are "Leading by example" initiatives by City divisions as well as programs targeted at reducing Industrial, Commercial, and Institutional (ICI) sector water use, outdoor residential water use, and indoor residential water use.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Water Conservation Study	450.0	520.0	0.0	0.0	0.0
<b>Total</b>	<b>450.0</b>	<b>520.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
WATERWORKS CAPITAL PROJECTS RESERVE	450.0	520.0	0.0	0.0	0.0
<b>Total</b>	<b>450.0</b>	<b>520.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2214 WTP - WATER SYSTEM ASSESSMENT**

Project Status	Open	Year Identified	2010
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Reid Corbett
Asset Type		Est. End Date	-

**Project Description**

This project consists of an independent assessment by a consulting engineer to determine waterworks performance, condition, capacity and maintenance.

**General Comments**

The assessment is required by Provincial legislation dealing with the protection of water and water quality. The Act requires an independent engineering assessment of all permitted waterworks be conducted once every five years. Previous assessments were completed in 2010 and 2015. The 2020 assessment will meet the five year mandate.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Water System Assessment	0.0	0.0	180.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>180.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	180.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>180.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2219 WTP-N.E. SECTOR RESERVOIR**

<b>Project Status</b>	Open	<b>Year Identified</b>	2013
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Reid Corbett
<b>Asset Type</b>	Water Treatment Plant	<b>Est. End Date</b>	-

**Project Description**

This project consists of the construction of a reservoir and pumping facility in the NE sector to meet the demands from growth in the sector.

**General Comments**

The project was initially scheduled for 2015 however upgrades to the 42nd Street reservoir and pumping facility allowed for a delay until 2020. The reservoir is planned to have a 40 million litre capacity and the pumping station an output of 1600 litres per second. With appropriate technical expertise, the majority of this project could be completed in house. External service providers will be required at a minimum on structural and building mechanical design.

**Special Note**

This project is subject to a Public Notice Hearing for borrowing.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
N.E. Sector Reservoir	0.0	0.0	4,467.0	20,810.0	21,573.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>4,467.0</b>	<b>20,810.0</b>	<b>21,573.0</b>
<b>FINANCING DETAILS</b>					
BORROWING	0.0	0.0	0.0	2,430.0	17,010.0
OPERATING BUDGET DOWNPAYMENT	0.0	0.0	0.0	270.0	1,890.0
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	4,467.0	18,110.0	2,673.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>4,467.0</b>	<b>20,810.0</b>	<b>21,573.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2220 WTP-FILTER PLANT UNDERDRAIN UPGRADE**

<b>Project Status</b>	Open	<b>Year Identified</b>	2013
<b>Project Type</b>	INFRASTRUCTURE REPLACEMENT	<b>Manager</b>	Reid Corbett
<b>Asset Type</b>	Water Treatment Plant	<b>Est. End Date</b>	-

**Project Description**

This project involves upgrading the mechanical components of the 1957 (6 filters), the 1964 (9 filters) and 1928 (6 filters) filter banks at the WTP.

**General Comments**

The work includes replacing the underdrains, process piping upgrades, valves and actuators, and automating their operation. Similar work was successfully completed on the 1911 (6 filters) in 2011/2012.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Filter Plant Underdrain Upgrade	1,000.0	1,040.0	0.0	0.0	0.0
<b>Total</b>	<b>1,000.0</b>	<b>1,040.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
WATERWORKS CAPITAL PROJECTS RESERVE	1,000.0	1,040.0	0.0	0.0	0.0
<b>Total</b>	<b>1,000.0</b>	<b>1,040.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2230 WWT-EXPECTED UPGRADES**

<b>Project Status</b>	Open	<b>Year Identified</b>	2013
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Reid Corbett
<b>Asset Type</b>	Wastewater Treatment Plant	<b>Est. End Date</b>	-

**Project Description**

This project involves upgrades of equipment and infrastructure at the main plant, biosolids storage area and pumping stations that do not warrant a separate capital project.

**General Comments**

Wastewater treatment facilities have a severe service rating due to the corrosive nature of sewage. Failures of equipment and infrastructure are not predictable and random failures will occur. This project funds upgrades that are immediately required.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Expected Upgrades	500.0	520.0	2,704.0	2,812.0	2,897.0
<b>Total</b>	<b>500.0</b>	<b>520.0</b>	<b>2,704.0</b>	<b>2,812.0</b>	<b>2,897.0</b>
<b>FINANCING DETAILS</b>					
WASTEWATER TRTMNT CAP RES	500.0	520.0	2,704.0	2,812.0	2,897.0
<b>Total</b>	<b>500.0</b>	<b>520.0</b>	<b>2,704.0</b>	<b>2,812.0</b>	<b>2,897.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2233 TU-ADVANCED TRAFFIC MGT SYSTEM**

Project Status	Open	Year Identified	2009
Project Type	SUPPORT SYSTEMS	Manager	Goran Lazic
Asset Type		Est. End Date	-

**Project Description**

This project provides capital funding toward the expansion of the City's Advanced Traffic Management System (ATMS), enabling upgrades of communication lines and required replacement of signal cabinets and controllers.

**General Comments**

The incorporation of ITS into the transportation network allows existing City streets to meet increasing capacity demands without the requirement for major additional construction. ITS is an integral component of network growth that improves motorist safety while helping to alleviate increased commute times, congestion and transport-related emissions.

The 2018 budget request is for further expansion of the broadband wireless communication system along Taylor Street, Clarence Avenue and Marquis Drive that connects the traffic management centre with traffic signals and to expand the centralized signal management system further with additional ATMS software modules.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	150.0	150.0	150.0	150.0	150.0
<b>Total</b>	<b>150.0</b>	<b>150.0</b>	<b>150.0</b>	<b>150.0</b>	<b>150.0</b>
<b>FINANCING DETAILS</b>					
TRANSP INFRAS EXPANSION	150.0	150.0	150.0	150.0	150.0
<b>Total</b>	<b>150.0</b>	<b>150.0</b>	<b>150.0</b>	<b>150.0</b>	<b>150.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

## 2234 TU-WALKWAY MANAGEMENT

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Shirley Matt
Asset Type		Est. End Date	-

### Project Description

This project involves walkways and includes completing assessments and improving infrastructure.

### General Comments

This project supports the City of Saskatoon strategic goal "Quality of Life" as it will help to deal with the reduction and prevention of crime in the neighbourhood.

The management of walkways typically consists of CPTED reviews, crack repairs, drainage issues, lighting installation, replacement of broken or missing bollards, and other upgrades.

Details on the program proposed for the budget year will be presented in an administrative report prior to, or concurrent with the Council budget meeting.

### Prior Budget Approvals

\$721,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Walkway Management	50.0	90.0	90.0	90.0	90.0
<b>Total</b>	<b>50.0</b>	<b>90.0</b>	<b>90.0</b>	<b>90.0</b>	<b>90.0</b>
<b>FINANCING DETAILS</b>					
TRAFFIC SAFETY RESERVE	50.0	90.0	90.0	90.0	90.0
<b>Total</b>	<b>50.0</b>	<b>90.0</b>	<b>90.0</b>	<b>90.0</b>	<b>90.0</b>
<b>Incremental Operating Impacts (000's)</b>					
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2235 TU-INTERSECTION IMPROVEMENTS**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Goran Lazic
Asset Type		Est. End Date	-

**Project Description**

This project involves the implementation of major geometric and operational modifications at localized intersections to ensure the safe and efficient movement of vehicles.

**General Comments**

This project addresses intersections in need of immediate operational and capacity improvements due to potentially significant safety hazards and/or unacceptable levels of service. It covers the costs of design, land acquisition (if required) and construction of major intersection improvements.

Major intersection improvements are intended to improve the level of safety for all road users, as well as to improve traffic operations and reduce delays. The list of potential projects is evaluated annually and prioritized based on collision rates, vehicular delays, and coordination with other projects. Minor intersection improvements typically include simple geometric modifications to improve the operations of an intersection. Examples include the addition of a right turning bay to improve traffic operations at an intersection, or physical adjustment of a median to allow turning vehicles an improved turning radius through the intersection (which can reduce the potential for collisions).

Details on the projects proposed for the budget year will be presented in an administrative report prior to, or concurrent with, the Council budget meeting.

**Prior Budget Approvals**

\$3,003,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
General Provision	950.0	600.0	700.0	700.0	500.0
<b>Total</b>	<b>950.0</b>	<b>600.0</b>	<b>700.0</b>	<b>700.0</b>	<b>500.0</b>
<b>FINANCING DETAILS</b>					
TRANSP INFRAS EXPANSION	950.0	600.0	700.0	700.0	500.0
<b>Total</b>	<b>950.0</b>	<b>600.0</b>	<b>700.0</b>	<b>700.0</b>	<b>500.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



## 2237 TU-UPGD DALMENY GRID/BEAM RD CONNECTION

Project Status	Open	Year Identified	2009
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	David LeBoutillier
Asset Type		Est. End Date	-

### Project Description

This project involves upgrading the existing roadway from a two lane paved roadway to a four lane paved roadway.

### General Comments

Upon completion of the Highway 7 and Highway 14 interchange, this connection will become a desirable route for City traffic between the Blairmore Suburban Centre and the Marquis Industrial area.

The initial upgrade will be from Highway 14 to Claypool Drive, completed under land development. This project completes the roadway from Claypool Drive to Highway 16 which is now under provincial jurisdiction.

### Prior Budget Approvals

\$46,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Upgd Dalmeny Grid/Beam Rd Connection	0.0	50.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	50.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

## 2241 TU-TRUCK ENFORCEMENT/EDUCATION

Project Status	Open	Year Identified	2009
Project Type	REJUVENATION	Manager	Nick Bakker
Asset Type		Est. End Date	-

### Project Description

This project will develop awareness and enforcement programs for commercial transport within City limits.

### General Comments

The objective of this project is to protect the City's transportation infrastructure by preparing an educational program for the commercial transportation and construction industries. The program includes advertisements, truck route maps and truck monitoring for preservation and design purposes and enforcement initiatives.

### Prior Budget Approvals

\$296,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Education Program	50.0	50.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
TRAFFIC SAFETY RESERVE	50.0	50.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2251 CY-IMPOUND LOT**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Andrew Hildebrandt
Asset Type		Est. End Date	-

**Project Description**

This project involves the construction of a new impound lot.

**General Comments**

The 2018 budget involves the design of a permanent building as part of the relocation of the impound lot site, with construction planned for 2019.

**Operating Impact**

Operating impacts for utilities and preventative maintenance will be determined as specific features of the facility are more clearly defined.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
New Impound Lot	0.0	100.0	1,640.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>100.0</b>	<b>1,640.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	100.0	1,640.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>100.0</b>	<b>1,640.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2255 TU-W&S CAPACITY ANALYSIS FOR REDEVELOPMENT AND MASTER PLANNING**

Project Status	Open	Year Identified	2015
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	AJ McCannell
Asset Type		Est. End Date	-

**Project Description**

This project identifies the need for water and sewer capacity analysis and master planning for infill/redevelopment and future development areas. This will ensure that a consistent level of service for water distribution and sewer collection in residential, commercial and other areas of the city is maintained and possibly improved.

**General Comments**

System capacity analysis and maintenance is a key factor in sustainable management of water and sewer utilities. The city's growth must be supported by various elements including efficient and cost-effective water and sewer utilities. Maximizing the use of existing system capacities and identifying areas where new infrastructure is necessary will ensure the best value for the citizens of Saskatoon.

This project would be ongoing to address continual infill/redevelopment and rezoning applications. The master planning component will be complete by mid of 2017 and thereafter periodic updates will be required. The intent is to assess the needs under this project on a yearly basis. The estimated yearly funding is \$100,000 with the main source of funding coming from redevelopment levy to W&S Infrastructure Reserve.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Design	100.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-WTR & SAN SWR	100.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2257 TU-CIRCLE DR OVER 33RD ST NB/SB**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Todd Grabowski
Asset Type		Est. End Date	-

**Project Description**

This project includes rehabilitation of the northbound and southbound overpass structures at Circle Drive over 33rd Street.

**General Comments**

The Circle Drive northbound over 33rd Street overpass is a two lane, four span, curved concrete girder bridge, originally constructed in 1992. The Circle Drive southbound over 33rd Street overpass is a two-lane, four-span, concrete girder bridge, originally constructed in 1980. The estimated replacement cost for each structure is approximately \$8.2 million.

Rehabilitation of the northbound structure is planned for 2018 and includes engineering services, removal and replacement of the asphalt wearing surface and membrane, removal and replacement of the top 30 mm of concrete deck and increasing the concrete cover over the rebar, and spot repairs to concrete surfaces.

This work will be done using external service providers.

If a 'Do Nothing' approach were taken with preservation of the northbound superstructure, service life prediction modeling indicates that structural failure, necessitating costly emergency repairs, can be expected to occur by the year 2038, with complete replacement of the superstructure required by the year 2043. The cost estimate for emergency deck repairs and replacement is approximately \$10 million.

**Prior Budget Approvals**

\$350,000 - Prior years approved funding will complete rehabilitation of the southbound substructure in 2018.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Repairs to NB structure	1,924.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,924.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BRIDGE MAJOR REPAIR RESERVE	1,924.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,924.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2259 TU-PW SATELLITE YARDS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2013
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Eric Quail
<b>Asset Type</b>	Buildings	<b>Est. End Date</b>	-

**Project Description**

Land for three permanent Public Works satellite yard sites is required immediately to facilitate current emergency water & sewer operations and roadway maintenance activities. Once land is secured, funding opportunities for the development of the sites are possible.

**General Comments**

Funding in 2017 was to develop a strategy for locating operational facilities, including satellite yards and offices, based on the future growth impacts of the Growth Plan to Half a Million.

The satellite yards are required for:

- Sweepings stockpile, sand recycling
- Fill material handling, stockpiling recycling
- Satellite yard with parking, vehicle storage, and buildings
- Scale, wash bay
- Hydro-vac tailings disposal
- Container handling for garbage and recycling (except at the Southwest site)

Locations that have been identified will accommodate other functions including future snow management facilities (Project 2037). Funding required for the Northwest and Northeast sites is to secure the land in advance of city development.

Funding shown for the Southeast site is required once the site is approved for development and the land purchase agreement is completed. Relocation from Nicolson Yards is imminent and a properly designed, constructed, and managed site is the goal for the proposed Public Works satellite yard in the southeast.

Funding for the Southwest site is required to relocate the current site, which is the future Recovery Park site, to the permanent location on the Civic Operations Centre Phase 2 land.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Northeast PW Yards Development	0.0	0.0	1,416.0	0.0	0.0
Northwest PW Yards Development	0.0	0.0	1,416.0	50.0	100.0
Southeast PW Yards Development	0.0	0.0	2,950.0	0.0	0.0
Southwest PW Yards Development	0.0	0.0	300.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>6,082.0</b>	<b>50.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	0.0	6,082.0	50.0	100.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>6,082.0</b>	<b>50.0</b>	<b>100.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2263 US-WATERSHED MGMT AND ASSESSMENT PROGRAM**

Project Status	Open	Year Identified	2009
Project Type	SUPPORT SYSTEMS	Manager	Twyla Yobb
Asset Type		Est. End Date	-

## Program Description

This project involves the creation of a watershed management program for the South Saskatchewan River within the City of Saskatoon.

## General Comments

The City has been working with the South Saskatchewan River Stewards Inc. (SSRWSI) to support initiatives under the South Saskatchewan River Watershed Source Water Protection Plan. Future work to be supported by this project includes: specific water quality investigations, development of an allocation strategy for the South Saskatchewan River, and development of a storm water management plan in the River Valley.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Watershed Protection	200.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>200.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
WATERWORKS CAPITAL PROJECTS RESERVE	200.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>200.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2265 TU-TRANSPORTATION EQUIPMENT ACQUISITIONS**

Project Status	Open	Year Identified	2015
Project Type	EQUIPMENT REPLACEMENT	Manager	Cory Funk
Asset Type		Est. End Date	-

**Project Description**

This project provides for the purchase of additional equipment required by the Sign Shop for detours, sign maintenance and crosswalk painting programs.

**General Comments**

This project is to ensure adequate equipment is in place to cope with the increase in volume for detours, sign maintenance and crosswalk painting programs due to city expansion. Additional equipment will increase productivity and improve customer service levels to both internal and external customers.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Sign Shop Equipment Purchase	150.0	100.0	140.0	50.0	75.0
<b>Total</b>	<b>150.0</b>	<b>100.0</b>	<b>140.0</b>	<b>50.0</b>	<b>75.0</b>
<b>FINANCING DETAILS</b>					
TRANSP EQUIP ACQ RESERVE	150.0	100.0	140.0	50.0	75.0
<b>Total</b>	<b>150.0</b>	<b>100.0</b>	<b>140.0</b>	<b>50.0</b>	<b>75.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**2268 TU-IDYLYWYLD DR FWY / 1ST AVE - NB RAMP**

Project Status	Open	Year Identified	2012
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Todd Grabowski
Asset Type		Est. End Date	-

**Project Description**

This project is for rehabilitation of the Idylwyld Drive and 19th Street to 1st Avenue northbound overpass.

**General Comments**

The Idylwyld Drive over 19th Street to 1st Avenue northbound overpass is a two lane, nine span, concrete girder bridge, originally constructed in 1965. The estimated replacement cost for this structure is approximately \$14.2 million.

Rehabilitation of the structure is planned for 2019 in conjunction with the Senator Sid Buckwold Bridge rehabilitation and includes engineering services, removal and replacement of the asphalt wearing surface and membrane, removal and replacement of a portion of the concrete deck in Area 1 (north abutment to first expansion joint south), spot repairs to remaining portions of the deck (Areas 2 and 3), replacement of the expansion joints, spot repairs to concrete surfaces including hinge joints, sealing of cracks in girders by epoxy injection and application of galvanic protection to the abutments.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Repairs to Overpass	0.0	3,000.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>3,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BRIDGE MAJOR REPAIR RESERVE	0.0	3,000.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>3,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

## 2269 TU-ACCOMMODATION CONSTRUCTION

Project Status	Open	Year Identified	2013
Project Type	SUPPORT SYSTEMS	Manager	Shelley Korte
Asset Type		Est. End Date	-

### Project Description

This project provides funding to address accommodation deficiencies within the Transportation and Utilities Department.

### General Comments

Funding identified in 2018 is required for anticipated renovations in conjunction with the departmental move to Civic Square East.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
General	100.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
TU - CAPITAL RESERVE	100.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2270 TU-PAVED ROADS AND SIDEWALK PRESERVATION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2017
<b>Project Type</b>	INFRASTRUCTURE REPLACEMENT	<b>Manager</b>	Mitchell Parker
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project funds annual preservation, restoration and rehabilitation programs for local, arterial and collector roads as well as high volume, limited access expressways. It also funds the preservation, restoration and rehabilitation of both neighbourhood and primary network sidewalks. The objective of this program is to minimize the life cycle cost of preserving the local, collector and arterial roads, as well as expressways, subject to minimum acceptable levels of service. These programs have been in place since 1988 (Collector Roads), 1981 (Arterial Roads), 1996 (Local Roads) and 1999 (Expressways). The sidewalk components in this project are required to restore sidewalks to a 'safe' condition. Sidewalk preservation is divided between neighbourhood assets and primary assets. As a neighbourhood asset, the sidewalks primarily serve the residents of that neighbourhood. Sidewalks classified as a primary asset serve a broader range of people.

**General Comments**

Local roads are considered part of the Neighbourhood Roadway Network, primarily serving residents of the neighbourhood and represent 51% of the City's roads. The primary program focus is on preservation of the roads within each neighbourhood.

Collector roads collect traffic from residential roads within each neighbourhood and are considered part of the Primary Roadway Network, representing 18% of the City's roads.

Arterial roads are high volume roads that connect neighbourhoods and are also considered part of the Primary Road Network, representing 18% of the City's roads. Over the past several years, traffic volumes, loads and the number of axles (which accelerates deterioration) have been increasing. This, along with increasing treatment costs and age, will necessitate increases in funding to sustain this infrastructure. The structural condition of these roads is being monitored along with the surface condition.

Expressways represent approximately 12% of the City's roads by surface area. The structural condition of these roads is being monitored along with surface condition.

The plan for sidewalk preservation is to make sidewalks safer by replacing, in whole or in part, panels of sidewalks having trip hazards or missing sections. Locations will be prioritized based on sidewalk use and planned neighbourhood renewal locations. Locations where parking meters exist will be given higher priority along with sidewalks near schools, hospitals and care homes. The estimated repair cost for sidewalks in 2018 is \$600 per lineal metre.

The proposed preservation programs are based on the most recent surface rating data and selective structural condition assessment and are updated as new information becomes available.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Arterial Road Preservation	5,850.0	5,600.0	5,600.0	5,600.0	5,600.0
Collector Road Preservation	5,850.0	5,800.0	5,800.0	5,800.0	5,800.0
Expressway Road Preservation	3,900.0	3,900.0	3,900.0	3,900.0	3,900.0
Local Road Preservation	10,700.0	10,782.0	10,782.0	10,782.0	10,782.0
Neighbourhood Network Sidewalk Preservation	3,400.0	3,000.0	2,950.0	2,950.0	2,950.0
Primary Network Sidewalk Preservation	2,100.0	2,000.0	1,950.0	1,950.0	1,950.0
<b>Total</b>	<b>31,800.0</b>	<b>31,082.0</b>	<b>30,982.0</b>	<b>30,982.0</b>	<b>30,982.0</b>
<b>FINANCING DETAILS</b>					
PAVED ROADWAYS INFRASTRUCTURE RESERVE	31,800.0	31,082.0	30,982.0	30,982.0	30,982.0
<b>Total</b>	<b>31,800.0</b>	<b>31,082.0</b>	<b>30,982.0</b>	<b>30,982.0</b>	<b>30,982.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2271 TU-HIGH SPEED ROADSIDE SAFETY IMPROVEMENTS**

Project Status	Open	Year Identified	2017
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	David LeBoutillier
Asset Type		Est. End Date	-

**Project Description**

This project is the delivery of the recommended plan from the 'In-Service Review' of the roadside safety systems completed in 2016. The capital budget reflects the prioritization of projects recommended by the consultant to address the potential severity of collision, the likelihood of collision (based on traffic volumes and vehicle composition) and the overall level of risk. The cost effectiveness of the modification is also considered in the recommended plan.

**General Comments**

An in-service safety review of existing roadside safety systems was completed by the Administration in 2016. The review examined all existing safety systems infrastructure associated with the city's high-speed roadways and associated structures (crash cushions, roadside barriers, median barriers, poles, piers and guide-high safety signs, as well as guardrails on low-speed roads which may be associated with bridge piers and embankments) to ensure current safety standards are met. In-service road safety reviews are detailed engineering studies of existing infrastructure and facilities which focus on mitigating measures to reduce collision frequency and/or severity for all road users. These types of studies are based on reviews of collision history, traffic volumes, and on-site observation and roadway geometry and traffic operations.

The capital plan is broken into three phases:

1. The first phase is to address the high risk deficiencies which include providing adequate barriers around piers and footings, providing correct end treatments and replacement of deficient guardrails.
2. The second (5-year) phase is to address the medium risk deficiencies which include providing correct end treatments and replacement of deficient guardrails and improving transitions between adjacent safety systems.
3. The third (2-year) phase is to address the low risk deficiencies which include correcting installation deficiencies of existing safety systems and removing fixed objects in the crash reduction zone.

Work planned for 2018 includes the rehabilitation and/or replacement of safety systems identified and prioritized in the study to the extent of available funding.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Installation/Replacement	500.0	1,200.0	1,200.0	1,200.0	1,200.0
<b>Total</b>	<b>500.0</b>	<b>1,200.0</b>	<b>1,200.0</b>	<b>1,200.0</b>	<b>1,200.0</b>
<b>FINANCING DETAILS</b>					
INFRA RES-TRANSPORTATION	500.0	220.0	230.0	240.0	320.0
UNFUNDED TRANSPORTATION INFRA RES	0.0	980.0	970.0	960.0	880.0
<b>Total</b>	<b>500.0</b>	<b>1,200.0</b>	<b>1,200.0</b>	<b>1,200.0</b>	<b>1,200.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2276 TU-CITY YARDS SAFETY IMPROVEMENTS**

Project Status	Open	Year Identified	2018
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Cathy Davidson
Asset Type		Est. End Date	-

**Project Description**

This project provides funding required to implement improvements concerning traffic flows throughout the City Yards.

**General Comments**

Funding identified in 2018 is intended to create a new fill/dump station at the entrance to the yards. This station will allow the implementation of a one-way traffic plan throughout the yards which will have a significant impact on the safety of staff and contractors accessing the yards.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Construction	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
TU - CAPITAL RESERVE	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2296 AF-LIONS ARENA PARKING REDEVELOPMENT & SEWER UPGRADE**

Project Status	Open	Year Identified	2017
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Troy LaFreniere
Asset Type	Ice Arena's	Est. End Date	-

**Project Description**

This project will provide for redevelopment of the parking facilities that support programming and events at the Lions Arena. The project also includes the replacement of the storm sewer line from Lions Arena to the existing main line located within park space south-east of the arena, resulting in an upgrading of storm water capacity.

**General Comments**

Parking facility upgrades and storm sewer line upgrades are required to provide adequate parking for patrons and prevent further deterioration and increasing costs to repair and maintain the existing parking lot and storm sewer line. The project will result in an organized and structured asphalt concrete parking lot layout, doubling the number of parking stalls and allowing for maximization of space. Defining parking stalls with the use of retaining walls, line painting and concrete walk and curbs will work towards general organization of the site. Creating a defined area complete with a concrete pad and heavy duty asphalt will assist in more efficient trash and recycling collection for the site. A heavy duty Zamboni route will be included to allow for efficient and appropriate snow piling, preventing premature surface degradation and inefficient use of space.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Parking Lot & Sewer Upgrade	0.0	1,100.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>1,100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED FACILITY SITE REPL RES	0.0	1,100.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>1,100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2313 SL&P - UTILITY GENERATION**

Project Status	Open	Year Identified	2018
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Nathan Ziegler
Asset Type		Est. End Date	-

**Project Description**

This project is for the construction of power generation facilities. Planned projects include combined heat and power generation, utility scale solar generation, hydro-power, and expansion of the generation facilities at the landfill. It is expected that these projects will be pursued in partnerships with other agencies.

**General Comments**

Saskatoon Light & Power continues to look for options to add more electrical generation to its system (Capital Project #1281 - Sustainable Power Generation Options). In particular, sustainable power generation options are preferred. Funding for projects is heavily depend on outside sources and as such, project scope and schedules are subject to change.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Hydropower	0.0	0.0	0.0	5,050.0	5,050.0
Utility Scale Solar Generation	0.0	2,100.0	2,075.0	2,075.0	0.0
<b>Total</b>	<b>0.0</b>	<b>2,100.0</b>	<b>2,075.0</b>	<b>7,125.0</b>	<b>5,050.0</b>
<b>FINANCING DETAILS</b>					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	100.0	75.0	125.0	50.0
SL&P CUSTOMER CONTRIBUTION	0.0	2,000.0	2,000.0	7,000.0	5,000.0
<b>Total</b>	<b>0.0</b>	<b>2,100.0</b>	<b>2,075.0</b>	<b>7,125.0</b>	<b>5,050.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2317 TR-SHELTERS/BENCHES**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	INFRASTRUCTURE MAINTENANCE	<b>Manager</b>	James McDonald
<b>Asset Type</b>	Bus Shelters	<b>Est. End Date</b>	-

**Project Description**

This project involves the ongoing installation of bus stop shelters and bench replacements.

**General Comments**

This replacement plan allows for the installation of twenty (20) new shelters per year through 2017. The bus shelter complement is deficient City-wide and requires further review of funding possibilities. Transit's current bus shelter advertising agreement expires at the end of 2018. A new request for proposals will be seeking an aggressive bus shelter installation target to further compliment the number of bus shelters located along transit routes. This project will also be used to revitalize certain transit stops to make them more accessible and to refurbish or replace old shelters.

**Prior Budget Approvals**

\$1,301,000

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Transit Shelter & Bench Repl Plan	0.0	200.0	200.0	200.0	200.0
<b>Total</b>	<b>0.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>
<b>FINANCING DETAILS</b>					
TRANSIT CAPITAL PROJECTS RESERVE	0.0	200.0	200.0	200.0	200.0
<b>Total</b>	<b>0.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



## 2323 TR-RIDERSHIP GROWTH INITIATIVES

Project Status	Open	Year Identified	2009
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	James McDonald
Asset Type	Studies - Non capitalized expenditure	Est. End Date	-

### Project Description

This project involves an initiative dedicated to growing Transit ridership and revenue.

### General Comments

Capital funding is required to set up numerous untapped markets for transit ridership that exist and have not been fully developed as well as to retain the current ridership. The project will focus on the implementation of programs and initiatives to get more people riding the bus, with the ultimate goal of increasing revenue. The following are among the potential strategies and initiatives that will be used/explored:

- Transit user groups: high school, University, Saskatchewan Polytechnic, other post-secondary, senior and corporate
- Partnering with environmental groups to promote Transit usage as a green alternative
- Transit promotions and special events
- Web page manager and design
- Marketing and advertising
- Internal communication management to ensure staff are involved and aware of the new programs
- Brand awareness
- Reward programs with fare collection smart cards
- Fare media development and promotions, such as an ECO Transit Pass for business and civic transit pass for employees
- Information days and customer service information events
- Transit surveys
- Investigation into new user technology

This work will be done using external service providers.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Advertising	90.0	100.0	100.0	100.0	100.0
Technology	0.0	2,600.0	0.0	0.0	0.0
<b>Total</b>	<b>90.0</b>	<b>2,700.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
TRANSIT CAPITAL PROJECTS RESERVE	90.0	1,100.0	100.0	100.0	100.0
UNFUNDED TCPR	0.0	1,600.0	0.0	0.0	0.0
<b>Total</b>	<b>90.0</b>	<b>2,700.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2349 CY-SASKATOON MINOR FOOTBALL FIELD UPGRADE**

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Mike Libke
Asset Type		Est. End Date	-

**Project Description**

This project involves upgrading Saskatoon Minor Football Field at Gordon Howe Park to address current and future programming needs.

**General Comments**

Sports organizations within the community expressed the need to upgrade Gordon Howe Bowl, one of Saskatoon's most important community facilities. Significant deterioration to the natural turf field has prevented groups such as Ultimate Frisbee, soccer, and minor football from utilizing Gordon Howe Bowl. Installation of an artificial turf field allows Gordon Howe Bowl to accommodate multiple user groups from mid-April until late November and creates a reliable and safe playing surface.

The Friends of the Bowl Foundation has secured bleachers and press boxes from the Saskatchewan Roughriders Legacy Program at no cost. The total value the Foundation is receiving is \$4,000,000. The Foundation launched a new fund-raising campaign in the fall of 2016 to raise \$2,000,000 towards the new seating. The new bleachers and box seating will accommodate 4,800 which is double the current maximum seating capacity at the field. The total estimated cost to demolish the existing bleachers and transport and install the new bleachers and box seats is \$2,500,000. The Foundation is asking the City to contribute \$500,000 over a two year period. \$250,000 from the City was approved in 2017 and the final \$250,000 contribution is requested in 2018.

**Operating Impact**

2019 - \$28,000 Preventative maintenance and reserve contribution for bleachers

**Prior Budget Approval**

\$1,500,000 Bleachers (Demolition of old and installation of new)

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Bleachers	1,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PRIVATE CONTRIBUTIONS	750.0	0.0	0.0	0.0	0.0
RESERVE FOR CAPITAL EXPENDITURES	250.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>1,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	28.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2352 CY-PERMANENT BOAT LAUNCH SITE**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	INFRASTRUCTURE REPLACEMENT	<b>Manager</b>	Brad Babyak
<b>Asset Type</b>	Buildings	<b>Est. End Date</b>	-

**Project Description**

This project involves the design and construction of the Permanent Boat Launch facility.

**General Comments**

The current boat launch adjacent to Kiwanis Memorial Park was set up in 2004 as a temporary location. Meewasin is completing a review of possible locations and identifying potential land-use conflicts prior to recommending a permanent boat launch site location. Using previously approved funding, public consultation began in 2016 and pending appropriate approvals, further public engagement will be required 2017. Pending approval from City Council on a permanent boat launch site, detailed design and construction will begin in 2019.

**Operating Impact**

\$5,000 Annual maintenance of site and minor repairs of boat launch (starting in 2020)

**Prior Budget Approval**

\$165,000

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Design and Construction	0.0	140.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>140.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED RCE	0.0	140.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>140.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2353 CY-CHIEF WHITECAP PARK DEVELOPMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	REJUVENATION	<b>Manager</b>	Brad Babyak
<b>Asset Type</b>	Parks and Open Spaces	<b>Est. End Date</b>	-

**Project Description**

This project involves the implementation of the program plans as outlined in the Chief Whitecap Master Plan, as approved by City Council in June 2010.

**General Comments**

The Master Plan Development for this park was a joint project partnered between the City of Saskatoon and the Whitecap Dakota First Nation. The Master Plan was developed through consultation with major stakeholders: Rural Municipality of Corman Park, Meewasin, residents neighbouring the park, and the current park users. The City of Saskatoon has partnered with the Meewasin to complete the detail design for Chief Whitecap Park.

In 2017, using existing funds, Administration will work with the RM of Corman Park on approval for discretionary use. Also, year one of the naturalization of the uplands process will commence; as well as establishment of the 80 acre off-leash dog park with fencing.

In 2018, naturalization of the uplands will continue.

The 2019 plan includes the development of pathways within the off-leash dog park and the naturalization of uplands.

The 2020 plan includes the development of a primary pathway system and the construction of the south parking lot.

The 2021 plan includes the development of a secondary pathway system, riverbank lookouts, signage, and site amenities such as benches and garbage cans.

The 2022 plan includes the construction of the road extension and central south parking lot.

**Prior Budget Approvals**

\$71,000 Development of Master Plan (cost shared with partner)

\$140,000 Detailed Design

\$60,000 Gravel Parking Lot

\$140,000 Development of an 80 acre off-leash dog park with fencing and installation of site amenities

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Construction	0.0	400.0	535.0	465.0	260.0
<b>Total</b>	<b>0.0</b>	<b>400.0</b>	<b>535.0</b>	<b>465.0</b>	<b>260.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED RCE	0.0	400.0	535.0	465.0	260.0
<b>Total</b>	<b>0.0</b>	<b>400.0</b>	<b>535.0</b>	<b>465.0</b>	<b>260.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2367 CP-VOICE OVER INTERNET PROTOCOL**

Project Status	Open	Year Identified	2009
Project Type	SUPPORT SYSTEMS	Manager	Robert Moncur
Asset Type		Est. End Date	-

**Project Description**

To purchase Voice Over Internet Protocol telephone equipment for the corporation to maintain cost savings over traditional land-line telephones.

**General Comments**

City Council on March 17, 2008 approved a post budget to purchase the network and Voice Over Internet Protocol telephone equipment at an approximate cost of \$800,000 funded by dedication of four years of annual savings resulting from the new technology.

2018 represents refreshing the current system to keep the technology current.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Equipment Purchases	300.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>300.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNIFIED COMMUNICATIONS RESERVE	300.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>300.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2368 AF-PRINTING AND MAIL SERVICES - EQUIPMENT**

Project Status	Open	Year Identified	2010
Project Type	EQUIPMENT REPLACEMENT	Manager	Jazz Pabla
Asset Type	Miscellaneous Equipment	Est. End Date	-

**Project Description**

The project provides for the replacement of Printing and Mail Services equipment.

**General Comments**

The demand for higher quality print is increasing along with the need for redundant printing services. New equipment in printing services could provide backup printing capabilities for the Data Centre (utility bills, etc.). The future plan is to replace this equipment once it is no longer current technology as maintenance costs will be rising, the failure rate will be increasing, parts will become difficult to find and the printing needs of our customers will be different.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Additional Equipment	0.0	0.0	136.0	0.0	0.0
High Volume Digital Multi-Functional Device	0.0	0.0	0.0	0.0	170.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>136.0</b>	<b>0.0</b>	<b>170.0</b>
<b>FINANCING DETAILS</b>					
PRINTING AND MAIL EQUIP REPL RESERVE	0.0	0.0	136.0	0.0	170.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>136.0</b>	<b>0.0</b>	<b>170.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2379 FIRE-MAJOR APPARATUS REPLACEMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2010
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Glenn Ledray
<b>Asset Type</b>	Fire Apparatus	<b>Est. End Date</b>	-

**Project Description**

This project provides for the replacement and refurbishment of major firefighting apparatus used by the Saskatoon Fire Department.

**General Comments**

Major Fire Apparatus are scheduled to be replaced as they reach the end of their safe serviceable life and begin experiencing recurring mechanical problems, making them very inefficient for day to day operations. Included are fire engines, aerial ladder vehicles, dangerous good trucks, brush and tanker trucks, mobile pump trailer and the emergency measures mobile command post.

The plan includes the replacement of a fire engine in each of the next five years along with an aerial ladder truck in 2020.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Aerial Ladder Truck Replacement	0.0	0.0	1,475.0	0.0	0.0
Fire Engine Replacement	855.0	855.0	855.0	855.0	855.0
<b>Total</b>	<b>855.0</b>	<b>855.0</b>	<b>2,330.0</b>	<b>855.0</b>	<b>855.0</b>
<b>FINANCING DETAILS</b>					
FIRE APPARATUS	855.0	855.0	2,330.0	855.0	855.0
<b>Total</b>	<b>855.0</b>	<b>855.0</b>	<b>2,330.0</b>	<b>855.0</b>	<b>855.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2380 FIRE- FIRE STATION NO. 11 - HOLMWOOD**

<b>Project Status</b>	Open	<b>Year Identified</b>	2012
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Morgan Hackl
<b>Asset Type</b>	Fire Stations	<b>Est. End Date</b>	-

**Project Description**

This provides for the construction of a standard Fire Station (No. 11), to be located in the Holmwood area (East Saskatoon) and the purchase of a fully equipped fire apparatus and Firefighter protective clothing.

**General Comments**

On October 6, 2003, City Council adopted Standard NFPA 1710 which establishes benchmark response times of four minutes for the 'first-in' unit or single unit response and eight minutes for all apparatus dispatched to a full first alarm assignment. This standard specifies safe and effective emergency response standards for all services provided by the Saskatoon Fire Department in the City of Saskatoon. To achieve that standard, the placement of the fire station is key to the effective and efficient delivery of emergency services to residents in all areas of the City.

The Holmwood area fire station will provide service in compliance with NFPA 1710 to meet the needs of the community.

The 2019 request includes the purchase of land. Design and construction is planned to commence in 2022 and construction completed by the fall of 2023, with the fully equipped fire apparatus ready for service at that time. The initial purchase of protective clothing will be funded from the Fire Capital Reserve.

**Special Note**

The land purchase portion of this project is included in the City's Civic Facilities funding plan. Funding for the design, construction and equipment, anticipated to be required in 2022 and 2023, is yet to be identified.

**Operating Impacts**

The station is projected to be completed by the fall of 2023. The annual cost for 20 additional fully-equipped Firefighters is approximately \$2,300,000. The impact to the operating costs for the apparatus and building maintenance is \$200,000 per year on a continual basis. The reserve replacement contributions for equipment and uniforms is estimated at \$70,000.

2023 (prorated from Sept/2023)

- Staffing: \$766,000
- Building Operations: \$67,000

2024 and on-going

- Staffing: \$1,534,000 (total \$2,300,000)
- Building Operation: \$133,000 (total \$200,000)
- Equipment & Uniform Reserve Contribution: \$70,000 (annual)

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Construction	0.0	0.0	0.0	0.0	1,000.0
Design	0.0	0.0	0.0	0.0	300.0
New Station - Saskatoon East	0.0	871.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>871.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,300.0</b>
<b>FINANCING DETAILS</b>					
FUNDING PLAN CONTRIBUTION	0.0	871.0	0.0	0.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	0.0	1,300.0
<b>Total</b>	<b>0.0</b>	<b>871.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,300.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	21.0



**2389 POLICE-FLEET ADDITIONS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Earl Warwick
<b>Asset Type</b>	PoliceVehicles	<b>Est. End Date</b>	-

**Project Description**

This project provides for the expansion of the Police Service vehicle fleet including vehicle and related equipment costs.

**General Comments**

Project is planned to increase the regular fleet. Project funding allows for the fleet to expand by 2 to 4 vehicles (fully equipment marked units and / or unmarked units) depending on operational demands.

The 2018 plan also includes the addition of specialty fleet dedicated to the Explosive Disposal Unit (EDU).

**Operating Impact**

No operating impact in 2019.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Fleet Additions	180.0	170.0	170.0	170.0	170.0
<b>Total</b>	<b>180.0</b>	<b>170.0</b>	<b>170.0</b>	<b>170.0</b>	<b>170.0</b>
<b>FINANCING DETAILS</b>					
POLICE CAPITAL RESERVE	180.0	170.0	170.0	170.0	170.0
<b>Total</b>	<b>180.0</b>	<b>170.0</b>	<b>170.0</b>	<b>170.0</b>	<b>170.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2392 TU-MCKERCHER DR/COLLEGE DR OVERPASS**

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Todd Grabowski
Asset Type		Est. End Date	-

**Project Description**

This project includes the rehabilitation of the McKercher Drive over College Drive overpass.

**General Comments**

The McKercher Drive over College Drive overpass is a five lane, two span, concrete girder bridge, originally constructed in 1979. The estimated replacement cost for this structure is approximately \$7.8 million.

The substructure work includes application of silane sealer to substructure components exposed to splash, application of silane sealer to the walkway, application of spray arc zinc to the south abutment and repairs to the girder soffit near the south abutment including installation of zinc anodes to protect the patch. The rehabilitation work has now been deferred to 2022 or beyond.

Proactive rehabilitation of the superstructure is planned for 2022 and includes engineering services, removal and replacement of the asphalt wearing surface and membrane and spot repairs to concrete surfaces.

If a 'Do Nothing' approach were taken with preservation of the superstructure, service life prediction modeling indicates that structural failure, necessitating costly emergency repairs, can be expected to occur by the year 2038, with complete replacement of the superstructure required by the year 2043. The cost estimate for emergency deck repairs and replacement is approximately \$7.27 million.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Superstructure Rehabilitation	0.0	0.0	0.0	0.0	315.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>315.0</b>
<b>FINANCING DETAILS</b>					
BRIDGE MAJOR REPAIR RESERVE	0.0	0.0	0.0	0.0	315.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>315.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2393 TU-TAYLOR/CIRCLE DRIVE**

Project Status	Open	Year Identified	2011
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Todd Grabowski
Asset Type		Est. End Date	-

**Project Description**

This project involves rehabilitation of the Taylor Street over Circle Drive overpass.

**General Comments**

The Taylor Street over Circle Drive overpass is a six lane, two span, continuous cast-in-place concrete girder bridge, originally constructed in 1996. The estimated replacement cost for this structure is approximately \$9.7 million.

Proactive rehabilitation of the substructure is planned for 2021 and includes engineering services by specialized external consultants, removal and replacement of the asphalt wearing surface and membrane, spot repairs to concrete deck, spot repairs and sealer applied to barriers and replacement of the expansion joints.

If a 'Do Nothing' approach were taken with preservation of the superstructure, service life prediction modeling indicates that structural failure, necessitating costly emergency repairs, can be expected to occur by the year 2053, with complete replacement of the superstructure required by the year 2053. The cost estimate for emergency deck repairs and replacement is approximately \$7.48 million.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Rehabilitation	0.0	0.0	80.0	755.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>80.0</b>	<b>755.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BRIDGE MAJOR REPAIR RESERVE	0.0	0.0	80.0	755.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>80.0</b>	<b>755.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2395 TU-CIRCLE DRIVE/14TH ST-NB**

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Todd Grabowski
Asset Type		Est. End Date	-

**Project Description**

This project is for the rehabilitation of the Circle Drive northbound over 14th Street overpass.

**General Comments**

The Circle Drive northbound over 14th Street overpass is a two lane, three span, concrete girder bridge, originally constructed in 1989. The estimated replacement cost for this structure is approximately \$5.0 million.

Rehabilitation of the structure is planned for 2022 and includes engineering services, removal and replacement of the asphalt wearing surface and membrane, removal and replacement of the upper 100 mm of the concrete deck, replacement of the expansion joints with semi-integral abutments and spot repairs to concrete surfaces.

If a 'Do Nothing' approach were taken with preservation of the superstructure, service life prediction modeling indicates that structural failure, necessitating costly emergency repairs, can be expected to occur by the year 2024, with complete replacement of the superstructure required by the year 2029. The cost estimate for emergency deck repairs and replacement is approximately \$3.9 million.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Repairs	0.0	0.0	0.0	150.0	1,020.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>150.0</b>	<b>1,020.0</b>
<b>FINANCING DETAILS</b>					
BRIDGE MAJOR REPAIR RESERVE	0.0	0.0	0.0	150.0	1,020.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>150.0</b>	<b>1,020.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2396 TU-IDYLWYLD FWY/IDYLWYLD RAMP NB/SB**

Project Status	Open	Year Identified	2012
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Todd Grabowski
Asset Type		Est. End Date	-

**Project Description**

This project involves the rehabilitation of the Idylwyld Drive northbound/southbound over 19th Street overpass.

**General Comments**

The Idylwyld Drive northbound/southbound over 19th Street overpass is a four lane, nine span, concrete girder bridge, originally constructed in 1965. The estimated replacement cost for this structure is approximately \$28.9 million.

Rehabilitation work planned for 2019 in conjunction with the Senator Sid Buckwold Bridge Rehabilitation includes engineering services, removal of the asphalt wearing surface and membrane, removal and replacement of the top 112 mm of concrete deck, placement of 150 mm of exposed normal performance concrete overlay with corrosion inhibitor and steel fibre reinforcement (exposed concrete overlay would form the new wearing surface) and spot repairs to concrete surfaces and hinge joints.

If a 'Do Nothing' approach were taken with preservation of the superstructure, service life prediction modeling indicates that structural failure, necessitating costly emergency repairs, can be expected to occur by the year 2035, requiring complete replacement of the superstructure. The cost estimate for deck replacement is approximately \$30.0 million.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Repair	0.0	4,465.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>4,465.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BRIDGE MAJOR REPAIR RESERVE	0.0	4,465.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>4,465.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2397 TU-CIRCLE DRIVE/8TH ST - NB/SB**

Project Status	Open	Year Identified	2012
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Todd Grabowski
Asset Type		Est. End Date	-

**Project Description**

This project involves rehabilitation of the Circle Drive over 8th Street overpass structure.

**General Comments**

The Circle Drive northbound and southbound over 8th Street overpasses are two lane, two span, steel girder bridges, originally constructed in 1999. The estimated replacement cost for each structure is approximately \$5.4 million.

Rehabilitation of the northbound structure is planned for 2021 and includes engineering services, removal and replacement of the asphalt wearing surface and membrane, removal and replacement of the upper 100 mm of the concrete deck and spot repairs to concrete surfaces. Rehabilitation of the southbound structure is planned for 2026 and includes engineering services, removal and replacement of the asphalt wearing surface and membrane, removal and replacement of the upper 100 mm of the concrete deck and spot repairs to concrete surfaces.

If a 'Do Nothing' approach were taken with preservation of the superstructure of these overpasses, service life prediction modeling indicates that structural failure can be expected to occur by the year 2037, requiring complete replacement of the superstructures. The cost estimate for deck replacement is approximately \$3.1 million for each structure.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Rehabilitation of NB structure	0.0	0.0	0.0	1,800.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,800.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	0.0	0.0	1,800.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,800.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2401 TU-PEDESTRIAN CROSSING STRUCTURES**

<b>Project Status</b>	Open	<b>Year Identified</b>	2013
<b>Project Type</b>	INFRASTRUCTURE MAINTENANCE	<b>Manager</b>	Todd Grabowski
<b>Asset Type</b>	Overpasses	<b>Est. End Date</b>	-

**Project Description**

This project involves rehabilitation of various pedestrian crossing structures.

**General Comments**

The Northridge Drive to 45th Street over Idylwyld Drive overpass is a two span, concrete deck pedestrian overpass with access stairs on either side, originally constructed in 1969. The estimated replacement cost for this structure is approximately \$934,000. Unfunded rehabilitation work planned for 2018 includes engineering services, repairs to approach walkways, replacement of expansion joint glands, spot repairs to concrete surfaces, grouting the bearings and replacement of the east pedestrian rail. This work will proceed when funding can be allocated in concert with the priorities of the asset inventory.

The Central Avenue to Carleton Drive over College Drive overpass is a two span, concrete deck pedestrian overpass with access stairs on either side, originally constructed in 1969. The estimated replacement cost for this structure is approximately \$934,000. Unfunded rehabilitation work planned for 2018 includes engineering services by specialized external service providers, replacement of expansion joint glands and level nosings, spot repairs to concrete surfaces, grouting the bearings and sanding and repainting the pedestrian railing. This work will proceed when funding can be allocated in concert with the priorities of the asset inventory.

The Hilliard Street over Idylwyld Drive overpass is a two span, cast-in-place concrete deck pedestrian overpass with spiral access ramps on either side, originally constructed in 1966. The estimated replacement cost for this structure is approximately \$3.85 million. Unfunded rehabilitation work planned for 2018 includes engineering services, shimming the approaches, repairs to the pedestrian cage, replacing the expansion joint glands, spot repairs to concrete surfaces and filling the scour hole under the east abutment wall. This work will proceed when funding can be allocated with the priorities of the asset inventory.

The pedestrian walkway across CPR River Bridge is a 300.0 m long, 1.1 m wide timber pedestrian crossing attached to the CPR River Bridge, originally constructed in 1936. The estimated replacement cost for this structure, including the main west staircase (steel) and secondary west staircase (timber), is approximately \$2.0 million. Rehabilitation work planned for 2022 includes sanding and repainting the staircase for corrosion protection.

**Prior Budget Approvals**

\$113,000

Prior budget approval was for the rehabilitation of the 11th Street under Idylwyld underpass.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Central Ave to Carleton Drive over College Drive	0.0	76.0	0.0	0.0	0.0
Hilliard St. over Idylwyld Drive	0.0	108.0	0.0	0.0	0.0
Northridge Dr to 45th St. over Idylwyld Drive	0.0	65.0	0.0	0.0	0.0
Pedestrian Walkway Across CPR River Bridge	0.0	0.0	0.0	0.0	108.0
<b>Total</b>	<b>0.0</b>	<b>249.0</b>	<b>0.0</b>	<b>0.0</b>	<b>108.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	249.0	0.0	0.0	108.0
<b>Total</b>	<b>0.0</b>	<b>249.0</b>	<b>0.0</b>	<b>0.0</b>	<b>108.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2402 TU-HIGHWAY 16 EASTBOUND OVER HIGHWAY 11 OVERPASS**

Project Status	Open	Year Identified	2013
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Todd Grabowski
Asset Type	Overpasses	Est. End Date	-

**Project Description**

This project involves preservation activities for the Highway 16 eastbound and westbound over Highway 11 overpasses.

**General Comments**

The Highway 16 over Highway 11 overpasses were bestowed to the City of Saskatoon in 2011 from the Ministry of Highways and Infrastructure. The two overpasses are three lane, five span, concrete girder bridges, originally constructed in 1967. The estimated replacement cost for these structures is approximately \$15.4 million.

The design and construction of the over height sensor and warning beacon on Highway 11 northbound is scheduled for 2018 but is unfunded. This work will proceed when funding can be allocated in concert with the priorities of the bridges inventory, or funding from outside sources becomes available.

Northbound and southbound deck rehabilitation is planned for 2025 which includes engineering services, removal and replacement of the asphalt wearing surface and membrane, removal of replacement of the upper 112 mm of concrete deck, median, barrier, pedestrian rail and spot concrete repairs.

If a 'Do Nothing' approach were taken with preservation of the superstructure, service life prediction/modeling indicates that the structural failure can be expected to occur by the year 2035, requiring complete replacement of the superstructure.

**Prior Budget Approvals**

\$2,007,000

Prior budget approval was for repairing the joints, abutments and girder ends of the overpass as well as to provide for the installation of an over-height sensor and warning beacon on Highway 11 northbound.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Overheight Warning System	0.0	155.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>155.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	155.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>155.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**2403 TU-CPR OVER CIRCLE DRIVE EAST OVERPASS**

Project Status	Open	Year Identified	2013
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Todd Grabowski
Asset Type	Overpasses	Est. End Date	-

**Project Description**

This project involves rehabilitation of the CPR over Circle Drive East overpass.

**General Comments**

Located between 108th Street and Attridge Drive, the CPR over Circle Drive East overpass is a five span, single track, post-tensioned continuous concrete span railway bridge, originally constructed in 1980. The City is wholly responsible for all preservation costs related to this structure. The estimated replacement cost for this structure is approximately \$7.7 million.

Unfunded rehabilitation work planned for 2018 includes engineering services, spot repairs to concrete surfaces and application of silane sealer to the walkway.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Substructure Repairs	0.0	164.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>164.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	164.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>164.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2404 TU-CIRCLE DRIVE/IDYLYLD**

Project Status	Open	Year Identified	2012
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Todd Grabowski
Asset Type		Est. End Date	-

**Project Description**

This project is for rehabilitation of the Circle Drive North over Idylwyld Drive overpass.

**General Comments**

The Circle Drive North over Idylwyld Drive overpass is an eight lane, four span, concrete girder bridge, originally constructed in 1967 to a six lane width and widened to eight lanes in 2001. The estimated replacement cost for this structure is approximately \$13.4 million.

Proactive rehabilitation of the structure is planned for 2021 and 2022 and includes engineering services by specialized external consultants, removal and replacement of the asphalt wearing surface, installation of a new membrane and spot repairs to concrete surfaces.

If a 'Do Nothing' approach were taken with preservation of the superstructure, service life prediction modeling indicates that structural failure, necessitating costly emergency repairs, can be expected to occur by the year 2039, with complete replacement of the superstructure required by the year 2044. The cost estimate for emergency deck repairs and replacement is approximately \$14.4 million.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Repairs	0.0	0.0	0.0	540.0	2,700.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>540.0</b>	<b>2,700.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	0.0	0.0	540.0	2,700.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>540.0</b>	<b>2,700.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

## 2406 TU-MINOR BRIDGE REPAIRS

Project Status	Open	Year Identified	2012
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Todd Grabowski
Asset Type		Est. End Date	-

### Project Description

This project is required to provide funding for minor repairs and structural studies as required on the City's bridges and structures.

### General Comments

There are currently 75 bridges, overpasses and pedestrian crossings that the City is responsible for. The list of projects and locations will be prioritized on an annual basis as needed.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Construction	289.0	289.0	289.0	289.0	289.0
<b>Total</b>	<b>289.0</b>	<b>289.0</b>	<b>289.0</b>	<b>289.0</b>	<b>289.0</b>
<b>FINANCING DETAILS</b>					
BRIDGE MAJOR REPAIR RESERVE	289.0	289.0	289.0	289.0	289.0
<b>Total</b>	<b>289.0</b>	<b>289.0</b>	<b>289.0</b>	<b>289.0</b>	<b>289.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2425 TU-UNDERGROUND ENCROACHMENTS**

Project Status	Open	Year Identified	2012
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Mitchell Parker
Asset Type		Est. End Date	-

**Project Description**

This project is required to fund the city's portion of costs related to dealing with existing underground encroachments in the city's right-of-way.

**General Comments**

Underground encroachments from lots into public Right of Way were constructed in the early 20th Century by agreement between developers and City Council. They consist of open areas under the sidewalk that are attached to the basement of the adjacent building. The ceiling of the encroachment is, in most cases, the sidewalk above. These were typically allowed for freight elevators or coal chutes and to provide for larger basements or storage areas than if the building was confined to the lot size.

These funds are to allow for the City to contribute a portion of funding to the property owner's costs for when they either repair or rebuild the encroachment they are responsible for.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Underground Encroachments Repairs	0.0	100.0	100.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>100.0</b>	<b>100.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED PAVED ROADWAYS INFR RES	0.0	100.0	100.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>100.0</b>	<b>100.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2428 TU-FUNCTIONAL PLANNING STUDIES**

Project Status	Open	Year Identified	2010
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Jay Magus
Asset Type		Est. End Date	-

**Project Description**

This project is for the ongoing identification of future transportation needs and the preparation of functional planning studies.

**General Comments**

Various new arterial roads throughout the City require functional planning studies to determine the vertical and horizontal alignments, right-of-way requirements, and preliminary cost estimates.

Work planned for 2018 is a functional planning study to examine the possible upgrading of Circle Drive between Clancy Drive and Laurier Drive. It is expected that external service providers will be used in the design of the functional planning studies.

**Prior Budget Approvals**

\$760,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Functional Planning Studies	200.0	200.0	0.0	50.0	200.0
<b>Total</b>	<b>200.0</b>	<b>200.0</b>	<b>0.0</b>	<b>50.0</b>	<b>200.0</b>
<b>FINANCING DETAILS</b>					
TRANSP INFRAS EXPANSION	200.0	200.0	0.0	50.0	200.0
<b>Total</b>	<b>200.0</b>	<b>200.0</b>	<b>0.0</b>	<b>50.0</b>	<b>200.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2429 CY-LICENSE PLATE RECOGNITION SYSTEM**

<b>Project Status</b>	Open	<b>Year Identified</b>	2009
<b>Project Type</b>	SUPPORT SYSTEMS	<b>Manager</b>	Andrew Hildebrandt
<b>Asset Type</b>	Software	<b>Est. End Date</b>	-

**Project Description**

This project involves the purchase of License Plate Recognition (LPR) vehicles to support the enforcement operation of the parking program.

**General Comments**

The LPR vehicles contain cameras that are capable of scanning and recognizing the license plates of parked vehicles. This license plate data is used to conduct parking enforcement in areas with posted time limits, locate stolen automobiles, identify vehicles with parking offences, verify paid parking on the flex parking system, and collect data for use in parking stall occupancy/turnover studies.

The plan involves the purchase of three additional LPR vehicles beginning in 2019.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
System Purchase	0.0	65.0	65.0	65.0	0.0
<b>Total</b>	<b>0.0</b>	<b>65.0</b>	<b>65.0</b>	<b>65.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PARKING RESERVE	0.0	65.0	65.0	65.0	0.0
<b>Total</b>	<b>0.0</b>	<b>65.0</b>	<b>65.0</b>	<b>65.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

## 2433 TU-8TH STREET & CPR GRADE SEPARATION

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	David LeBoutillier
Asset Type		Est. End Date	-

### Project Description

This project involves functional planning studies, in conjunction with Canadian Pacific Railway, for the design of a grade separation at 8th Street East to improve safety at the existing grade level interchange in order to facilitate the development of the Holmwood Sector.

### General Comments

A fully protected rail crossing will be the interim step prior to overpass construction.

Discussions are ongoing to confirm external funding from the developer.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
8th St & CPR Grade Separation	0.0	400.0	0.0	38,500.0	0.0
<b>Total</b>	<b>0.0</b>	<b>400.0</b>	<b>0.0</b>	<b>38,500.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
PRIVATE CONTRIBUTIONS	0.0	400.0	0.0	38,500.0	0.0
<b>Total</b>	<b>0.0</b>	<b>400.0</b>	<b>0.0</b>	<b>38,500.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2434 TU-HWY 11 & HWY 16 CLOVERLEAF**

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	David LeBoutillier
Asset Type		Est. End Date	-

**Project Description**

This project involves a functional planning study for improvements to the existing interchange and/or replacement structures to improve safety and function of the interchange.

**General Comments**

The functional planning study began in 2016 and was completed in 2017. The study recommended short and long-term improvements and replacement of the interchange in the future as noted in the future investments of within this project.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
HWY 11 & HWY 16 Cloverleaf Functional Study	0.0	5,200.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>5,200.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	5,200.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>5,200.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**2442 TU-DALMENY ROAD/HWY 684 REPLACEMENT**

Project Status	Open	Year Identified	2012
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	David LeBoutillier
Asset Type		Est. End Date	-

**Project Description**

This project involves the planning, property acquisition, construction and complete rehabilitation of Dalmeny Road (inside City limits)/Highway 684 (outside City limits). The reconstruction of Highway 684 north of the City limits will be coordinated with Saskatchewan Ministry of Highways and Infrastructure.

**General Comments**

Two lanes for north and south bound traffic will be constructed immediately west of the existing Dalmeny Road (inside City limits), as well as intersections at 33rd Street and Claypool Drive. Traffic will then be redirected from the existing road to the new road. The existing road will be completely restored in the future and a median will be constructed at that time.

**Prior Budget Approvals**

\$300,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Property Acquisition	0.0	500.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>500.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED TRANSPORTATION INFR EXPANSION	0.0	500.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>500.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2446 TU-PEDESTRIAN CROSSING IMPROVEMENTS**

Project Status	Open	Year Identified	2012
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Shirley Matt
Asset Type		Est. End Date	-

**Project Description**

This project involves upgrading existing pedestrian devices or installation of new pedestrian crossing devices. Recommendations for devices are from neighbourhood reviews, corridor reviews, or a concern from the public. All devices will meet the current warrant system used by the Transportation Division.

**General Comments**

This project supports the City of Saskatoon's long-term strategies of 'Moving Around' and 'Quality of Life'. Pedestrian crossing improvement projects are typically identified through neighbourhood traffic reviews, corridor studies, and resident inquiries. Improvement projects are prioritized based on Council Policy CO7-018: Traffic Control at Pedestrian Crossings.

Details on the program proposed for the budget year will be presented in an administrative report prior to, or concurrent with, the Council budget meeting.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	70.0	150.0	150.0	150.0	150.0
<b>Total</b>	<b>70.0</b>	<b>150.0</b>	<b>150.0</b>	<b>150.0</b>	<b>150.0</b>
<b>FINANCING DETAILS</b>					
TRAFFIC SAFETY RESERVE	70.0	70.0	100.0	100.0	100.0
UNFUNDED TRAFFIC SAFETY RES	0.0	80.0	50.0	50.0	50.0
<b>Total</b>	<b>70.0</b>	<b>150.0</b>	<b>150.0</b>	<b>150.0</b>	<b>150.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2447 TU-33RD ST PEDEST'N CORRIDOR MASTER PLAN**

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Jay Magus
Asset Type		Est. End Date	-

**Project Description**

This project includes a multi-use pathway from the University of Saskatchewan to Saskatchewan Polytechnic campus along the south side of 33rd Street.

**General Comments**

This route is proposed to be developed as a major off-road corridor that will consist of a well-designed multi-use pathway on which pedestrians and cyclists will feel safe and comfortable. When complete, the corridor will include landscape development and other amenities that will enhance the look and feel of the area.

Phase I included pathway construction on 33rd Street from Spadina Crescent to Warman Road in 2011 and 2012, and was funded from PT Base Funding in Project No. 1137 - Bicycle Facilities.

Phase II includes pathway construction on 33rd Street from Warman Road to Ontario Avenue.

Phase III is the completion of the pathway from Ontario Avenue to Idylwyld Drive.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Multi Use 33rd Street Corridor (Warman/Idylwyld)	500.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>500.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
TRANSP INFRAS EXPANSION	500.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>500.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2448 TU-INTELLIGENT TRANSPORTATION SYSTEM**

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Goran Lazic
Asset Type		Est. End Date	-

**Project Description**

This project provides capital funding for the development of Intelligent Transportation Systems (ITS).

**General Comments**

ITS can include (but is not limited to) traffic monitoring cameras, variable message boards, traffic priority, incident management systems, Weigh-In-Motion (WIM) devices, Road-side Weather Information Systems (RWIS), and Advanced Traveler Information Systems (ATIS). ITS also includes the Advanced Traffic Management Systems.

In 2017 the ITS Needs Assessment was completed. The future investments are related to the implementation of the recommendations from the plan.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Feasibility Study	200.0	200.0	200.0	200.0	200.0
<b>Total</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>
<b>FINANCING DETAILS</b>					
TRANSP INFRAS EXPANSION	200.0	200.0	200.0	200.0	200.0
<b>Total</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>	<b>200.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2459 LAND DEV'T-SOUTH CASWELL HILL REDEVELOPMENT**

Project Status	Open	Year Identified	2012
Project Type	REJUVENATION	Manager	Rob Tomiyama
Asset Type		Est. End Date	-

**Project Description**

This project involves the transformation of South Caswell Hill from a former industrial area containing Saskatoon Transit offices and bus barns, to a mixed-use community. The area transition will require capital investment to prepare the land and buildings for new uses. The project involves the development of a revised Concept Plan in cooperation with community residents and stakeholders, and preparation of the land and buildings for sale. The original Concept Plan for the redevelopment was adopted by Council on April 12, 2010, and serves as the general guideline for future development.

**General Comments**

The area known as South Caswell Hill is projected to undergo significant redevelopment after the Saskatoon Transit operations and other former industrial uses relocate in early 2017 to the Civic Operations Centre. In order to facilitate development and to eliminate much of the risk associated with these sites, a number of investigations and clean up actions are required, including a Detailed Phase 2 Environmental Site Assessment, a risk assessment and remediation evaluation, a structural assessment of the buildings, and any necessary remediation work. \$1.5 million will be allocated to site remediation studies and cleanup to occur in 2017 and 2018. An additional \$1.5 million will be required in 2019 to assist with infrastructure upgrades, and the development of a park or open space in the area.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	500.0	1,500.0	0.0	0.0	0.0
<b>Total</b>	<b>500.0</b>	<b>1,500.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
NBCF - REALLOCATION	500.0	0.0	0.0	0.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	1,500.0	0.0	0.0	0.0
<b>Total</b>	<b>500.0</b>	<b>1,500.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

## 2468 TU-ACTIVE TRANSPORTATION PLAN IMPLEMENTATION

Project Status	Open	Year Identified	2017
Project Type	STUDY/PLANNING	Manager	Don Cook
Asset Type		Est. End Date	-

### Project Description

This project involves the implementation of the Active Transportation Plan.

### General Comments

The Active Transportation Plan was adopted in 2016 and identified 80 action items. A five-year action plan has been prepared that outlines the immediate priorities for implementation.

Details on the program proposed for the budget year will be presented in an administrative report prior to, or concurrent with, Council budget meeting.

Active Transportation infrastructure for 2018 and forward has been identified through separate components of the project including:

- Audible Pedestrian Signal Program (Formerly CP1963.03)
- Curb Ramp Program (Formerly CP1963.04)
- New Sidewalk Program (Formerly CP0948)
- Cycling Network (Formerly CP1137)

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
AT Plan Implementation	500.0	1,250.0	1,250.0	1,250.0	1,250.0
Audible Pedestrian Signal Program	0.0	0.0	50.0	0.0	50.0
Curb Ramp Program	100.0	200.0	200.0	200.0	100.0
Cycling Network	0.0	100.0	100.0	150.0	100.0
New Sidewalk Program	0.0	100.0	100.0	150.0	100.0
<b>Total</b>	<b>600.0</b>	<b>1,650.0</b>	<b>1,700.0</b>	<b>1,750.0</b>	<b>1,600.0</b>
<b>FINANCING DETAILS</b>					
ACTIVE TRANSPORTATION RESERVE	500.0	500.0	500.0	500.0	500.0
TRAFFIC SAFETY RESERVE	0.0	0.0	50.0	0.0	50.0
TRANSP INFRAS EXPANSION	100.0	400.0	400.0	500.0	300.0
UNFUNDED ACTIVE TRANSPORTATION RESERVE	0.0	750.0	750.0	750.0	750.0
<b>Total</b>	<b>600.0</b>	<b>1,650.0</b>	<b>1,700.0</b>	<b>1,750.0</b>	<b>1,600.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2474 CY-HUDSON BAY AREA DISTRICT PARKS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2012
<b>Project Type</b>	REJUVENATION	<b>Manager</b>	Brad Babyak
<b>Asset Type</b>	Parks and Open Spaces	<b>Est. End Date</b>	-

**Project Description**

This project involves a program plan review, survey, and site analysis for the Hudson Bay Area Parks (Pierre Radisson, Henry Kelsey North, and Scott).

**General Comments**

A Master Plan prepared in 1989 provides a framework for the public consultation and park program review planned for 2016. Survey and site analysis will provide an understanding of water levels and what needs to be done to ensure the Children's Safety Village and neighboring parcels of land are not negatively impacted with this construction.

The Westmount Local Area Plan committee recognized "that while Westmount values its abundant green spaces and opportunities for active, community living, the neighborhood's parks are not being utilized to their full potential". This capital project will assist in creating the vision that the Westmount Local Area Plan committee has identified as important in components such as improved landscaping, walkways, benches, and lighting but still maintaining wide open spaces for users.

The Cosmopolitan Couples Club has identified Pierre Radisson District Park as a suitable location for a Children's Safety Village. This proposed park program amenity provides a catalyst in the development of the Hudson Bay Area Park system, in particular Pierre Radisson District Park. This capital project will provide a strategy to ensure the Children's Safety Village is designed and built to incorporate current and future activities, both formal and informal, within the park system. It will be crucial to ensure all stakeholders, including Cosmopolitan Couples Club, neighborhood residents, suburban area residents, sport user groups, and Transportation be involved in the public consultation stage of this capital project.

In 2016, development of a 2.99 acre off-leash dog park and a practice cricket pitch was constructed in Pierre Radisson District Park.

The future proposed phasing consists of:

2018 - Detailed design for Pierre Radisson Park, and construction of a regulation sized adult cricket field (Phase 1) within Pierre Radisson Park.

2019 - Survey and site analysis for Henry Kelsey Park North and construction of Pierre Radisson Park Phase 2

2020 - Detailed design for Henry Kelsey Park North and construction of Pierre Radisson Park Phase 3

2021 - Survey & site analysis for Scott Park and construction of Henry Kelsey Park North Phase 1

2022 - Detailed design for Scott Park and construction of Henry Kelsey Park North Phase 2

**Prior Budget Approval**

\$50,000 Public consultations & park program review, survey & site analysis for Pierre Radisson Park

**Operating Impact**

2019 - \$8,400 for maintenance of a the cricket field (class II above basic service)

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Construction	345.0	1,320.0	1,665.0	2,215.0	2,215.0
Detailed Design	70.0	0.0	90.0	0.0	100.0
Survey & Site Analysis	0.0	30.0	0.0	30.0	0.0
<b>Total</b>	<b>415.0</b>	<b>1,350.0</b>	<b>1,755.0</b>	<b>2,245.0</b>	<b>2,315.0</b>
<b>FINANCING DETAILS</b>					
DEDICATED LANDS RESERVE	415.0	0.0	0.0	0.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	1,350.0	1,755.0	2,245.0	2,315.0
<b>Total</b>	<b>415.0</b>	<b>1,350.0</b>	<b>1,755.0</b>	<b>2,245.0</b>	<b>2,315.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	8.4	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2476 CY-NEW RECREATION COMPLEX**

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Lynne Lacroix
Asset Type		Est. End Date	-

**Project Description**

With continued growth in Saskatoon and the expanding footprint of the City, it is anticipated that a new suburban recreation complex will be required within the next ten years. This project will undertake the design and construction of a new recreation complex that may include a leisure pool, walking track, fitness area, gymnasium and multi-use space. Ideally, the facility would be adjacent to city-wide outdoor sport fields.

**General Comments**

The design, location and timing of this new recreation complex will be determined using the tools and prioritization criteria outlined in the Recreation Master Plan. The Master Plan provides an overall framework for guiding the development, delivery, and continuous improvement of recreation programs, services and facilities. This facility may be located adjacent to a future high schools construction project.

Total cost will be \$40 million over 3 years, with the final \$20 million phase of construction targeted to be completed in 2023.

**Operating Impact**

The operating impact for 2023 and 2024 would be:

\$460,000 Utilities

\$880,000 Building Maintenance

\$423,000 Contribution to Reserve

Other operating costs and revenues to be determined.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
New Recreation Complex	0.0	0.0	0.0	3,500.0	17,500.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3,500.0</b>	<b>17,500.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	3,500.0	17,500.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3,500.0</b>	<b>17,500.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**2489 POLICE-FURNITURE REPLACEMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2012
<b>Project Type</b>	INFRASTRUCTURE REPLACEMENT	<b>Manager</b>	Earl Warwick
<b>Asset Type</b>	Building Contents	<b>Est. End Date</b>	-

**Project Description**

This project provides for the replacement of furniture that has reached life expectancy.

**General Comments**

This project will enable the Police Service to replace existing furniture based on condition assessments and industry standards and for life expectancy.

2018 funding is requested to replace furniture that is due for replacement according to the replacement schedule including items such as desks, filing cabinets and chairs.

**Operating Impact**

No increase anticipated for 2018.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Furniture Replacement	50.0	50.0	50.0	50.0	50.0
<b>Total</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>
<b>FINANCING DETAILS</b>					
POLICE FAC RENOVATION RES	50.0	50.0	50.0	50.0	50.0
<b>Total</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>	<b>50.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2497 POLICE-EQUIPMENT REPLACEMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2014
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Earl Warwick
<b>Asset Type</b>	Police Equipment	<b>Est. End Date</b>	-

**Project Description**

This project allows for the replacement of specialized equipment used by Police operations.

**General Comments**

This project provides for the replacement of specialized equipment used by Saskatoon Police Service operations including Patrol, Criminal Investigations, the Traffic Section and 'Special Teams' - the Explosives Disposal Unit (EDU), the Tactical Support Unit (TSU), K-9 and the Public Safety Unit (PSU).

The 2018 project is for funding to replace TSU, PSU, EDU, and K-9 equipment. The plan also includes the replacing the aging CEW and tire deflation equipment.

**Operating Impact**

No increase anticipated for 2018.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Equipment Purchase	303.0	272.0	334.0	0.0	303.0
<b>Total</b>	<b>303.0</b>	<b>272.0</b>	<b>334.0</b>	<b>0.0</b>	<b>303.0</b>
<b>FINANCING DETAILS</b>					
POLICE OPER EQUIP & TECH RES	303.0	272.0	334.0	0.0	303.0
<b>Total</b>	<b>303.0</b>	<b>272.0</b>	<b>334.0</b>	<b>0.0</b>	<b>303.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2498 POLICE-EQUIPMENT EXPANSION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2014
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Earl Warwick
<b>Asset Type</b>	Police Equipment	<b>Est. End Date</b>	-

**Project Description**

This project allows for the purchase of additional specialized equipment used by Police operations.

**General Comments**

This project provides for the purchase of additional specialized equipment used by Saskatoon Police Service operations including Patrol, Criminal Investigations, the Traffic Section and 'Special Teams' - the Explosives Disposal Unit (EDU), the Tactical Support Unit (TSU), and the Public Safety Unit (PSU).

The 2018 project calls for funding to support the purchase of roadside screening devices, recon throw bot and K-9 equipment.

**Operating Impact**

No increase anticipated for 2018. Future operating impacts are under review.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Equipment Purchase	150.0	0.0	0.0	0.0	84.0
<b>Total</b>	<b>150.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>84.0</b>
<b>FINANCING DETAILS</b>					
POLICE OPER EQUIP & TECH RES	150.0	0.0	0.0	0.0	84.0
<b>Total</b>	<b>150.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>84.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2499 POLICE-TECHNOLOGY REPLACEMENT**

Project Status	Open	Year Identified	2014
Project Type	EQUIPMENT REPLACEMENT	Manager	Earl Warwick
Asset Type		Est. End Date	-

**Project Description**

This project provides for the replacement/upgrading of computer hardware and software including network servers, infrastructure, storage and security as well as desktop and in-car computers/technology.

**General Comments**

The 2018 project includes funding to support several multi-year projects that will replace/upgrade , network infrastructure, virtual desktops, technology service's security systems, laptops, and provide a Project Administrator.

Future year projects include replacement of desk top computers, in car cameras/notebooks, network infrastructure with various police operations software.

**Operating Impact**

Annual software maintenance costs anticipated to increase by \$0 in 2018 and \$47,000 in 2019.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Equipment Purchase	356.0	805.0	1,182.0	646.0	521.0
In Car Camera Replacement	0.0	100.0	0.0	570.0	570.0
Network Upgrades	175.0	0.0	150.0	0.0	0.0
Virtual Desktop Replacement	110.0	0.0	0.0	140.0	0.0
<b>Total</b>	<b>641.0</b>	<b>905.0</b>	<b>1,332.0</b>	<b>1,356.0</b>	<b>1,091.0</b>
<b>FINANCING DETAILS</b>					
POLICE OPER EQUIP & TECH RES	641.0	905.0	1,332.0	1,356.0	1,091.0
<b>Total</b>	<b>641.0</b>	<b>905.0</b>	<b>1,332.0</b>	<b>1,356.0</b>	<b>1,091.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	47.0	0.0	8.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2505 FIRE- STATION NO. 4 & RELOCATION OF MAINTENANCE/MECHANICAL**

Project Status	Open	Year Identified	2013
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Morgan Hackl
Asset Type	Fire Buildings	Est. End Date	-

**Project Description**

This project provides for the replacement of Fire Station No. 4 along with the relocation of the Maintenance/Mechanical Division. These facilities will be located in the North Industrial area close to the current Fire Station No. 4 on Faithfull Avenue.

**General Comments**

Fire Station No. 4 was built in 1961 and has reached the end of its useful life.

The replacement of Fire Station No. 4 also provides the opportunity for the relocation of the Maintenance/Mechanical Divisions. The Maintenance/Mechanical building located at Station No. 1 is no longer able to service the Fire Department's fleet of apparatus effectively, due in part to its downtown location and size. The current shop does not allow for Mechanics to complete all service work in-house. The proposal includes increasing the number of bays from 2 to 3 and includes a lift. The north end location is in close proximity to suppliers, allows for better access for large fire apparatus, and will facilitate efficient operations to take place in a functional work space.

The estimated cost of land, design and construction of a station and new maintenance/mechanical facility is \$10.0 million. Construction is planned to commence in 2020.

**Operating Impacts**

There will be no increase in operating costs for this project.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	0.0	0.0	10,000.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>10,000.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	0.0	10,000.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>10,000.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2506 FIRE- FIRE STATION NO. 1 REPLACEMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2013
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Morgan Hackl
<b>Asset Type</b>	Fire Buildings	<b>Est. End Date</b>	-

**Project Description**

This project provides for the replacement of Fire Station No.1 and Headquarters.

**General Comments**

Fire Station No. 1 is located in the appropriate place for the Saskatoon Fire Department Response Model. It has good access for the district that Station No. 1 directly covers, quick access for aquatic rescue response, and excellent access for backup response with arterial roads in close proximity and multiple bridge a short distance away.

The replacement of the 1964 building will accommodate the dimensions of new fire apparatus, allow the standards for accessibility to be met, provide space for the Communications Division (now located in a separate building), provide efficient administrative office space, and be more efficient in building and energy use.

With a new model for future fire stations, Community space will be provided for community meeting rooms. These community rooms are bookable space for community groups, but also are accessible to Saskatoon Fire Department staff for training.

Design is anticipated to begin in 2022 with construction taking place in 2023 for an approximate total cost of \$30 million.

**Operating Impacts**

There will be no increase in operating costs.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Design	0.0	0.0	0.0	0.0	2,000.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2,000.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	0.0	2,000.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2,000.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2508 FIRE-FIRE STATION NO. 5 REPLACEMENT**

Project Status	Open	Year Identified	2016
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Morgan Hackl
Asset Type	Fire Stations	Est. End Date	August 2020

**Project Description**

This project provides for the construction of a new fire station to replace existing Fire Station No. 5.

**General Comments**

On October 6, 2003, City Council adopted Standard NFPA 1710 which establishes best practices and timed response. This standard specifies safe and effective emergency response standards for all services provided by Saskatoon Fire Department in the City of Saskatoon. To achieve that standard, the placement of all fire stations is key to the effective and efficient delivery of emergency services to residents in all areas of the City.

The department's overall fire station location analysis will determine a suitable location for relocating Station No. 5. This will provide the service response times for the NFPA 1710 standard of the 4-minute first-in-response.

Pending the completion of successful negotiations, the design and construction of Fire Station No. 5 will begin in 2018 and construction is expected to be completed by the fall of 2019. Fire Station No. 5 will be a 3 bay, 2 deep station.

**Special Note**

This project is included in the City's Civic Facilities funding plan.

**Operating Impact**

2019 - \$25,000 Building maintenance, operating and lease costs (last quarter)

2020 - \$75,000 Building maintenance, operating and lease cost (total of \$100,000 annually)

**Prior Budget Approval**

\$500,000 for design

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Design & Construction	8,789.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>8,789.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
FUNDING PLAN CONTRIBUTION	8,789.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>8,789.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	25.0	75.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2509 FIRE-UNIFORMS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2018
<b>Project Type</b>	REJUVENATION	<b>Manager</b>	Glenn Ledray
<b>Asset Type</b>	Miscellaneous Equipment	<b>Est. End Date</b>	-

**Project Description**

This project provides for the purchase of uniforms and protective clothing required by the members of the Saskatoon Fire Department.

**General Comments**

Members of the Saskatoon Fire Department are provided with a dress uniform and work clothing, as outlined in their collective agreement, and a set of protective turnout gear. The National Fire Protection Association has mandated that a second set of protective turnout gear be available.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Dress Uniforms	50.0	0.0	50.0	0.0	50.0
Station Wear	100.0	100.0	50.0	70.0	50.0
Turnout Gear	175.0	150.0	150.0	150.0	150.0
<b>Total</b>	<b>325.0</b>	<b>250.0</b>	<b>250.0</b>	<b>220.0</b>	<b>250.0</b>
<b>FINANCING DETAILS</b>					
FIRE UNIFORMS RESERVE	325.0	250.0	250.0	220.0	250.0
<b>Total</b>	<b>325.0</b>	<b>250.0</b>	<b>250.0</b>	<b>220.0</b>	<b>250.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**2516 CP-DEVELOP ENTERPRISE MANAGEMENT STRATEGIES**

Project Status	Open	Year Identified	2017
Project Type	SUPPORT SYSTEMS	Manager	Amin Ahmed
Asset Type		Est. End Date	-

**Project Description**

Required to deliver on enterprise level applications and the City's goal of Service Saskatoon, this project calls for a number of initiatives to partner with businesses to leverage technology and emerging trends to foster innovation by integrating strategy, business and technology to increase productivity and service delivery. The development and delivery of key programs in 2017 and beyond will continue and build on the solid foundation laid in 2016.

**General Comments**

To achieve the vision and strategy set by the Corporation, the following specific areas are targeted in 2017 and 2018:

Disaster Recovery and Business Continuity:

- Develop business continuity roadmap for critical applications that are vital for the operation of the City.

Enterprise Asset Management Strategy:

- Streamline the management of City's technology assets thereby improving efficiency and reducing the cost of supporting the applications.

Enterprise Architecture Strategy:

- Develop a long term roadmap and strategy to address a low cost, cloud enabled strategy for our data centres encompassing our application and infrastructure (servers and network) layers.

Enterprise Data Management Strategy:

- Access to right information for decision making for the Corporation to leverage large volumes of data and transform it into actionable information that will help manage and plan a growing city.

IT Service Governance/ITIL Implementation:

- A long-term IT Service Governance strategy will be developed with key processes as a foundational piece of business required to manage usage and mitigate risk. This includes using ITIL (Information Technology Infrastructure Library), which provides a set of best practices for the IT Service Governance that focuses on aligning IT services with the needs of the business.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Capacity and Innovation	395.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>395.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
C.I.S. DEVELOPMENT RESERVE	395.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>395.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2519 COMMUNITY WINTER CITY STRATEGY DEVELOPMENT**

Project Status	Open	Year Identified	2017
Project Type	STUDY/PLANNING	Manager	Eric Westberg
Asset Type		Est. End Date	-

**Project Description**

This project includes engagement and awareness measures and small-scale initiatives towards creating a Winter City Strategy for Saskatoon. The Strategy will respond to the four-year Strategic Plan priority to provide opportunities for activities in a winter city and will address winter events, mobility and design among other aspects.

**General Comments**

The project represents the first year of an anticipated two-year strategy-formation process. It includes community engagement to co-design the strategy as well as awareness campaigns to motivate involvement in planning and current winter opportunities. Funding of specific small-scale community initiatives is also provided to build momentum for the strategy. Investments in communications, coordination and new infrastructure are driven by the community through engagement.

The proposed funding for 2018 consists of:

- 1) Temporary staffing support to conduct design review and draft guidelines, complete a civic policy review and draft amendments, support internal civic service and process reviews, and participate in the Winter Cities Institute.
- 2) Communications and outreach to promote existing assets and new community initiatives.
- 3) Investments in new assets that support outdoor winter activities. Examples include temporary warming huts at strategic locations and pop-up/mobile infrastructure to support festivals and events.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Winter City	350.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>350.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
RESERVE FOR CAPITAL EXPENDITURES	350.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>350.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2525 FIRE-REGIONAL TRAINING FACILITY**

<b>Project Status</b>	Open	<b>Year Identified</b>	2018
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Morgan Hackl
<b>Asset Type</b>	Fire Buildings	<b>Est. End Date</b>	-

**Project Description**

This project provides for the development of a Regional Training Facility. Currently the Saskatoon Fire Department (SFD) does not have a dedicated training facility. It is anticipated that this facility be located north of Saskatoon.

**General Comments**

The Regional Training Facility supports the City's Regional Plan. The SFD is working with Fire Departments north of the city to identify the appropriate location. Through this collaboration, training infrastructure can be shared between departments. Also, discussions have occurred between SFD and Emergency Managements and Fire Safety (Provincial Fire Commissioner Office) to collaborate for storage of cache equipment needed for emergency response. This equipment would be available to SFD and regional partners for use as well. The end goal is for a Regional Centre of Excellence that will facilitate training for departments across the northern portion of Saskatchewan.

The estimated cost of this project is \$5.0 million. The project may be expanded if regional partnership and private sector contributions are secured.

**Operating Impact**

There will be no increase in operating costs.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Regional Training Facility	0.0	1,400.0	3,600.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>1,400.0</b>	<b>3,600.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	1,400.0	3,600.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>1,400.0</b>	<b>3,600.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2528 CY-DOG PARK DEVELOPMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2011
<b>Project Type</b>	SUPPORT SYSTEMS	<b>Manager</b>	Brad Babyak
<b>Asset Type</b>	Parks and Open Spaces	<b>Est. End Date</b>	-

**Project Description**

This project involves the development of dog parks, which are naturalized spaces where dogs are legally permitted to be off-leash. This allows both the owner/handler and companion animal to enjoy exercise together while socializing with others doing likewise. Future sites will be dependent on availability of suitable City-owned land or park space (neighbourhood, suburban and City-wide) and subject to public consultation. Development of new dog parks will be consistent with the dog park program plan review completed in 2012.

**General Comments**

The popularity of dog parks is growing and there is increasing demand for this recreational activity. The need for additional dog parks was evident during the public consultation portion of the Chief Whitecap Park Master Plan project and substantiated by a 2011 public survey.

The 2018 plan will include alterations to the Silverwood off-leash dog park to better define the off-leash area and to allow safe passage of pedestrians walking and biking on the Meewasin trail. This project includes detail design; additional fencing along the Meewasin trail; additional access gates; relocating the information kiosk; and adding signage as required.

The 2021 plans include the development of a new infill neighbourhood dog park on the west side of the river. The potential target of the southwest quadrant is a community group initiative.

The 2024 plans involve the development of a new infill neighbourhood dog park on the east side of the river; and will be developed through prospective community group requests.

**Operating Impacts**

2019 - No additional funds would be requested as it is an existing location.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Dog Park Development & Upgrades	110.0	0.0	0.0	90.0	0.0
<b>Total</b>	<b>110.0</b>	<b>0.0</b>	<b>0.0</b>	<b>90.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
ANIMAL SERVICES RESERVE	110.0	0.0	0.0	90.0	0.0
<b>Total</b>	<b>110.0</b>	<b>0.0</b>	<b>0.0</b>	<b>90.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2531 AF-PORTFOLIO MANAGEMENT SYSTEM REPLACEMENT**

<b>Project Status</b>	Open	<b>Year Identified</b>	2012
<b>Project Type</b>	SUPPORT SYSTEMS	<b>Manager</b>	Shelley Sutherland
<b>Asset Type</b>	Software	<b>Est. End Date</b>	-

**Project Description**

This project provides for the replacement of a portfolio management and investment accounting system to assist with the recording, reporting, compliance, accounting and valuation of all short-term and long-term investment transactions conducted by the City of Saskatoon.

**General Comments**

A new portfolio management system would provide a significant increase in reporting capabilities (i.e. compliance), more functionality to include other investment instruments (i.e. variable rate securities), amortization of bond premium/discount calculation, and enhancements to the automated uploading of GL data into the City's financial system.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Portfolio Management System Repl	0.0	0.0	0.0	0.0	300.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>300.0</b>
<b>FINANCING DETAILS</b>					
AFM - CAPITAL RESERVE	0.0	0.0	0.0	0.0	300.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>300.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2538 CP-NATURAL CAPITAL ASSET VALUATION**

Project Status	Open	Year Identified	2017
Project Type	ENVIRONMENTAL PROTECTION	Manager	Nasha Spence
Asset Type		Est. End Date	-

**Project Description**

The Natural Capital Asset (NCA) valuation is a process of creating an inventory of the natural capital residing within the City and systematically applying a financial value to it similar to the process currently applied to built infrastructure. NCA valuation will enable City departments to identify the effect of operations and capital projects on natural assets, how to mediate risk to these assets, and how to incorporate natural assets as an alternative to built infrastructure.

**General Comments**

The City has committed to the Covenant of Mayors for Climate and Energy to respond to climate change through mitigation activities and adaptation planning. The Natural Capital Asset valuation process identifies the value (in financial terms) of carbon sequestration and climate change adaptation processes.

Environmental planning has become a standard that most municipalities engage. The Asset Management Plan, the Risk Management Plan, Mitigation Business Plan, and the Green Infrastructure Strategy have identified the need to financially value natural infrastructure in the community to advise the City's ongoing development and operations.

Funding is also required to determine the adequacy of current civic software for reporting the NCA results.

**Operating Impacts**

Supporting annual operating requirements for NCA valuations is estimated to be \$75,000 (2019).

**Special Note**

This project is subject to the City successfully obtaining a grant from the Federation of Canadian Municipalities (FCM) for funding in place in 2017.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
NCA Systems	80.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>80.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
CP - CAPITAL RESERVE	80.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>80.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	75.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2539 CP-CLIMATE CHANGE MITIGATION BUSINESS PLAN**

Project Status	Open	Year Identified	2017
Project Type	ENVIRONMENTAL PROTECTION	Manager	Nasha Spence
Asset Type		Est. End Date	-

**Project Description**

Developing a Climate Change Mitigation Business Plan will ensure the corporation achieves the obligations outlined by the Global Covenant of Mayors for Climate and Energy including:

- 1) Setting targets to reduce emissions in the City
- 2) Creating options and recommendations for the Saskatoon community to reduce emissions
- 3) Developing an implementation plan to reduce emissions
- 4) Ongoing, reporting, monitoring and proven progress toward achieving the goals outlined during the target-setting process
- 5) Ongoing updates and modification to systematically reach goals

**General Comments**

In May 2017, the Saskatoon Environmental Advisory Committee (SEAC) passed a motion recommending that the City support community-wide GHG targets of:

15% emissions reductions below 2014 levels by 2023; and

80% emissions reductions below 2014 levels by 2050.

Setting targets for community emissions is the first step in providing support to the community to engage in mitigation activities that will contribute to the emissions reductions committed to by the Federal government, and decrease the carbon price obligation that will be implemented in 2018.

Corporately, the Administration has recommended adjusting the corporate target to utilize the 2014 Saskatoon Greenhouse Gas Emissions Inventory as the base year for measurement. The new resulting target for the corporation is 40% by 2023.

**Operating Impacts**

Supporting annual operating requirements for mitigation target tracking would be:

- 1) Annual inventory completion
- 2) Updating the comparative analysis for annual reporting within the City of Saskatoon corporation and community
- 3) Overseeing implementation of emissions reduction activities within the corporation
- 4) Ensuring carbon price liability is correct
- 5) Oversee implications with civic operations to emissions and targets

**Special Note**

This project is subject to the City successfully obtaining a grant from the Federation of Canadian Municipalities (FCM) for funding in place.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Mitigation Business Plan	100.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
CP - CAPITAL RESERVE	20.0	0.0	0.0	0.0	0.0
FCM	80.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2540 CIVIC CONSERVATORY REPAIR/REPLACEMENT**

Project Status	Open	Year Identified	2017
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Eric Westberg
Asset Type	Buildings	Est. End Date	-

**Project Description**

The Civic Conservatory building attached to the future Children's Discovery Museum is past its life expectancy and requires complete rehabilitation with potential expansion opportunities.

**General Comments**

Originally built in 1964, the Civic Conservatory attracts approximately 80,000+ visitors annually. Recent condition assessments indicate that while the existing concrete columns and beam structures are adequate, the remainder of the building envelope, roof design, health and safety measures and accessibility are all in need of replacement.

The conservatory has the opportunity to expand its existing footprint in order to support partnerships with the Children's Discovery Museum, the City's Healthy Yards and Winter City programs, Open Door Society programs, the Kinsmen Park and Area Master Plan and countless other stakeholder groups and tours that currently use the conservatory.

The proposed funding for initial design development would engage stakeholders and the public in creating an integrated program for the expanded space, with the understanding that construction is contingent on senior government funding.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Civic Conservatory Repair/Replacement	135.0	3,368.0	0.0	0.0	0.0
<b>Total</b>	<b>135.0</b>	<b>3,368.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
AFM - CAPITAL RESERVE	135.0	0.0	0.0	0.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	3,368.0	0.0	0.0	0.0
<b>Total</b>	<b>135.0</b>	<b>3,368.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**2541 CY-GROWTH PLAN TO HALF A MILLION IMPLEMENTATION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2014
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Chris Schulz
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project involves implementation and project coordination, including community engagement and communications, for the core initiatives of the Growth Plan to Half a Million.

**General Comments**

The Growth Plan to Half a Million was approved in principle by City Council in April 2016.

The Growth Plan to Half a Million Implementation project consists of the following components:

**Long Term Transit Plan Implementation:**

This component involves the development in 2017 and 2018 of a detailed operational plan for specific schedule, fleet, and operational impacts, such as staffing resources, required to implement services and the transit structure outlined in the Long Term Transit Plan initiative of the Growth Plan to Half a Million. In 2018, transit corridor and operations reviews will continue. PTIF funding will support the installation and rehabilitation of transit shelters, and the purchase and outfitting of the fleet with equipment to support long term operational and data requirements, such as automatic passenger counters, transit signal priority, etc.

**Secondary Plan Process and Corridor Redevelopment:**

This component supports the Transit and Rapid Transit implementation by addressing the land use and public realm amenities adjacent to the system, and provides for appropriate transitions into existing neighbourhoods. In conjunction with detailed design of the Bus Rapid Transit network, a Transit Corridor land use, built form and zoning analysis and strategy, as well as the servicing strategy will provide inputs for discussion through the secondary plans that will then be staged along the corridor segments identified in the Growth Plan, beginning in 2018. The Secondary Planning process will involve review of existing conditions, community engagement, and the recommendation of preferred options, to be followed by capital construction projects during implementation, beginning in 2019 with Phase 2 of PTIF funding. In addition, more focused secondary planning for Transit Village Concept Plans, will be conducted at important station locations along the Bus Rapid Transit network.

The transit corridor planning work also includes a Brownfield Renewal Strategy that will include environmental assessments of key corridor locations in order to fully understand the extents of contamination and to develop relevant management plans to facilitate future transit development. Funds allocated for this purpose are being used to leverage support from the Federation of Canadian Municipalities (FCM) Green Municipal Fund. The FCM funds received will be used to take the information learned from the corridor study and expand the Brownfield Renewal Strategy to apply citywide.

**Rapid Transit Corridor Development:**

This component includes the development of functional plans and detailed design of all rapid transit infrastructure, including roadway infrastructure, stations, and passenger amenities/support systems. Construction of the system components and roadway cross-section enhancements is anticipated to begin in 2019 with Phase 2 of PTIF funding.

**Project Coordination:**

This component involves the continuation of the Growth Plan Manager position to lead the development of the implementation strategy and coordinate the delivery as well as the Communications and Engagement position to assist implementation of all project components.

**Policy and Plan Development:**

The Growth Plan to Half a Million includes policies and strategies that are not reflected in the existing Official Community Plan Bylaw. A renewal of the Official Community Plan will be required to update the bylaw. Additionally, a Transportation Plan will be produced that provides an overview of the policies, plans, strategies, and initiatives that guide investments which allow people to move around the City. This plan will include a framework for a network of major roadways to a city population of half a million. Long term modelling of city and regional traffic demand patterns will also be added and maintained over time.

Internal staffing and communications related to this initiative are included in this project.

**Core Bridge Strategy:**

This component involves the preparation of a preliminary conceptual design for the bridge, addressing components such as size, connections, and design. Future funds will be requested for the development and execution of an engagement and decision strategy for the bridge. Options for design would be prepared and the impacts of the bridge would need to be defined and reviewed through a community engagement process. The development of a functional plan and a funding plan for implementation would be later phases of the project. Future funding requests for this component will be based on transit requirements and river crossing demand.

**PTIF Funding:**

In 2016, the Federal Government allocated \$29.0 million to Saskatchewan under Phase 1 of the PTIF. The City of Saskatoon received approximately \$18.65 million for Phase 1 of the PTIF. Federal funding will provide up to 50% for eligible projects, and the City is

required to fund the remaining 50%. As approved at the April 18, 2016, Governance and Priorities Committee meeting, the City's matching contribution required for the PTIF funds from the federal government is from reallocated funding by using Building Canada Funds for water and wastewater projects and reallocating an equal dividend from the utilities to fund public transit. Total capital investment of \$37.3 million is included in 2016/2017 budget to be funded by PTIF and matching civic funding.

The proposed scope of work for projects eligible for federal funding from the PTIF was approved by City Council on June 27, 2016 and includes the following:

- Immediate work to address shelter improvements, add new shelters and improve network accessibility and active transportation linkages to transit;
- New equipment, such as Automatic Passenger Counters, transit signal priority equipment, and other equipment will align with the development of a comprehensive intelligent transportation system strategy in order to better monitor and assess service effectiveness, and enhance the reliability and efficiency of transit operations;
- Preparation of a Bus Rapid Transit (BRT) Indicative Detailed Design for the complete system of rapid transit corridors in 2016, 2017 and 2018 including new facilities to support Transit customers, such as BRT stations and Park and Ride facilities will also be designed, and locations and phasing will be identified;
- To complement the BRT Indicative Detailed Design, a Transit corridor zoning analysis and strategy will be undertaken, as well as a water and wastewater servicing and implementation strategy for the entirety of the BRT corridors.

The PTIF funds are also funding significant bus purchases which are included in Projects 583 - Transit Fleet Renewal (TR-Replace/ Refurb Buses) and 2095 - Access Transit-Bus Replacements, as well as the Intelligent Transportation System Strategy (Project 2448), rail grade separation and rail relocation feasibility studies (Project 1456), and pedestrian improvements through New Sidewalks and Pathways (Project 948), Corp. Accessibility Implementation (Project 1963) and Pedestrian Crossing Improvements (Project 2446).

The project budget for years 2019-2027 includes assumptions about Phase 2 of PTIF based on the funding formula identified in the 2017-2018 Federal Budget. Details of Phase 2 of this program have not yet been finalized, but the amounts are included for planning purposes. Actual amounts will be refined in the 2019 project budget.

## Operating Impact

Operating impacts are not anticipated in 2018. For 2019 and beyond, operating impacts are anticipated, but are not yet known. Estimated operating impacts will be determined as part of the functional planning and detailed design process for the Transit/Rapid Transit plan.

## Prior Budget Approvals

\$ 11,940,000 - Implementation Planning and Design (includes \$90,000 grant from the Federation of Canadian Municipalities Green Municipal Fund, assuming all anticipated costs are eligible)

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Long Term Transit Plan	110.0	120.0	120.0	665.0	2,305.0
Policy & Plan Development	245.0	245.0	260.0	260.0	270.0
Project Coordination	275.0	220.0	240.0	240.0	250.0
Rapid Transit Development	190.0	44,600.0	44,600.0	44,060.0	42,270.0
Secondary Plan Process & Corridor Redevelopment	410.0	595.0	680.0	545.0	560.0
<b>Total</b>	<b>1,230.0</b>	<b>45,780.0</b>	<b>45,900.0</b>	<b>45,770.0</b>	<b>45,655.0</b>
<b>FINANCING DETAILS</b>					
PTIF - FEDERAL	0.0	17,840.0	17,840.0	17,620.0	17,778.0
RESERVE FOR CAPITAL EXPENDITURES	1,230.0	0.0	0.0	0.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	26,760.0	26,760.0	26,440.0	26,672.0
UNFUNDED RCE	0.0	1,180.0	1,300.0	1,710.0	1,205.0
<b>Total</b>	<b>1,230.0</b>	<b>45,780.0</b>	<b>45,900.0</b>	<b>45,770.0</b>	<b>45,655.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2550 TU-WEST/CENTRAL MULTI-USE CORRIDOR**

Project Status	Open	Year Identified	2014
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Jay Magus
Asset Type		Est. End Date	-

**Project Description**

This project involves the design and construction of a multi-use pathway to extend from Idylwyld Drive to Avenue W, to be located adjacent to the railway corridor. Future phases could include linkages to extend east to Central Avenue. A phased approach will be necessary to address any land acquisition challenges as the project proceeds.

**General Comments**

The idea for a multi-use bicycle and pedestrian pathway within the CPR ROW came out of the 2002 Pleasant Hill Local Area Plan. The plan indicates that the development of a multi-use pathway facility within the ROW will link parks in the core of Saskatoon, connect the west side neighbourhoods to downtown and recognize the use of the ROW as an existing informal pathway through the four neighbourhoods of Pleasant Hill, Riversdale, West Industrial and Caswell Hill.

The 2001 Pleasant Hill LAP has recommended that the Traffic Section prepare a report for City Council outlining the feasibility of formally allocating a portion of the CPR ROW for the purposes of a pedestrian and cycling linkage from downtown into the west portion of Saskatoon, and that consideration be given to the cost, maintenance, liability and safety aspects of establishing the linkage. The Traffic Engineering Section prepared a feasibility study that was adopted by City Council at the end of 2007. The recommendation for a formal pedestrian and cyclist linkage within the CPR ROW was also supported by the LAP Committees and included in the Local Area Plans for Riversdale and West Industrial.

Construction of the 25th Street Extension introduced changes in railway operations within the City, which resulted in changes to existing railway infrastructure. It also opened up discussions with CP around the issue of existing trespassing on the CPR ROW between Idylwyld Drive and Avenue W. A safety pathway will address the issue of trespass and pedestrian safety. The initial phase has been constructed between Idylwyld Drive and Avenue D. Phase II has been identified in 2017 for \$400,000 to construct between Avenue D and Avenue H. The safety pathway will be extended to Avenue W by Phase III. Future phases could extend to Central Avenue as significant segments of a trail system already exist.

Phase I: Complete

Phase II: Avenue D to Avenue H (planning in progress)

Phase III: Avenue P to Avenue W (2019)

Phase IV: Avenue L to Avenue P (2020)

Phase V: Avenue H to Avenue L (2021)

All design and construction are delayed pending the recommendations from the rail relocation project (CP 1456).

**Operating Impact**

The future operating impact would be \$2,100 for snow clearing, if funded.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Construction	0.0	400.0	400.0	400.0	400.0
<b>Total</b>	<b>0.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED ACTIVE TRANSPORTATION RESERVE	0.0	400.0	400.0	400.0	400.0
<b>Total</b>	<b>0.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>	<b>400.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2558 WTP-CLARIFIER TUBE SETTLERS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2013
<b>Project Type</b>	INFRASTRUCTURE REPLACEMENT	<b>Manager</b>	Syed Naqvi
<b>Asset Type</b>	Water Treatment Plant	<b>Est. End Date</b>	-

**Project Description**

This project involves the engineering services, tendering, grit blasting, coating and painting of existing clarifier #2 & 4 mechanisms; concrete wall crack repairs and supply and installation of tube settlers in both clarifiers.

**General Comments**

The mechanisms of both Clarifiers # 2 & 4 that were replaced in 2003 have shown signs of corrosion and leakages through adjacent concrete walls affecting quality and the effluent clarification process.

The upgrades to clarifiers #2 & 4 were completed from September 2014 to April 2015. The upgrades in two clarifiers will increase water treatment capacity, reduce chemicals consumption and will improve water quality. A 2019 provision will see construction for clarifier #3.

This project will require external service providers.

**Operating Impact**

The operating and maintenance cost will be reduced and pumping capacity of WTP will be increased to 300 MLD.

**Special Note**

This project is subject to a Public Notice Hearing for borrowing.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Clarifier Tube Settlers	0.0	9,360.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>9,360.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BORROWING	0.0	3,240.0	0.0	0.0	0.0
OPERATING BUDGET DOWNPAYMENT	0.0	360.0	0.0	0.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	5,760.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>9,360.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2559 WTP-SAND SEPARATORS**

<b>Project Status</b>	Open	<b>Year Identified</b>	2013
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Larry Schultz
<b>Asset Type</b>	Water Treatment Plant	<b>Est. End Date</b>	-

**Project Description**

This project involves replacing the existing sand separators at the WTP.

**General Comments**

The existing sand separators no longer effectively remove sand from the raw water supply. Sand separators are a mechanical device subject to abrasion from sand/silt in the raw water supply. The work involves replacing the mechanical components and reusing the existing process piping in the sand separator building. This project will require external service providers.

**Special Note**

This project is subject to a Public Notice Hearing for borrowing.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Sand Separators	0.0	0.0	3,840.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>3,840.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BORROWING	0.0	0.0	1,978.0	0.0	0.0
OPERATING BUDGET DOWNPAYMENT	0.0	0.0	220.0	0.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	1,642.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>3,840.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2561 WTP-EXPECTED UPGRADES**

<b>Project Status</b>	Open	<b>Year Identified</b>	2013
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Larry Schultz
<b>Asset Type</b>	Water Treatment Plant	<b>Est. End Date</b>	-

**Project Description**

This project involves upgrades of equipment and infrastructure at the main plant and satellite reservoirs that do not warrant a separate capital project.

**General Comments**

Sections of the WTP are 100 years old with the remainder of the main plant at least 50 years old. Failures of old equipment and infrastructure are not predictable. This project funds upgrades that are immediately required.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Upgrades	0.0	0.0	5,408.0	1,125.0	5,793.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>5,408.0</b>	<b>1,125.0</b>	<b>5,793.0</b>
<b>FINANCING DETAILS</b>					
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	5,408.0	1,125.0	5,793.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>5,408.0</b>	<b>1,125.0</b>	<b>5,793.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2562 WTP-CLARIFIER CONSTRUCTION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2013
<b>Project Type</b>	GROWTH AND CAPITAL EXPANSION	<b>Manager</b>	Larry Schultz
<b>Asset Type</b>	Water Treatment Plant	<b>Est. End Date</b>	-

**Project Description**

This project involves the construction of additional clarifiers within the existing Water Treatment Plant footprint.

**General Comments**

The 2009 Long Term Capital Development and Expansion Plan (LTCDEP) recommended additional clarifier capacity and this project is scheduled for 2021. The work involves decommissioning the existing west basin and building new clarifiers in its place. This represents the lowest cost alternative and allows the City to upgrade clarification without disturbing Victoria Park.

This project will require external service providers.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Clarifier Construction	0.0	0.0	0.0	1,241.0	12,901.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,241.0</b>	<b>12,901.0</b>
<b>FINANCING DETAILS</b>					
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	0.0	1,241.0	12,901.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,241.0</b>	<b>12,901.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2563 WTP-LOW LIFT UPGRADE**

<b>Project Status</b>	Open	<b>Year Identified</b>	2013
<b>Project Type</b>	INFRASTRUCTURE REPLACEMENT	<b>Manager</b>	Larry Schultz
<b>Asset Type</b>	Wastewater Treatment Plant	<b>Est. End Date</b>	-

**Project Description**

This project involves the upgrade of the low lift pumping station which is the secondary (backup) raw water intake and is located on the plant grounds.

**General Comments**

The work consists of replacing the numerous small pumps with two or three right sized units, upgrading the process piping, and modernizing the electrical service and control network.

With appropriate technical expertise, the majority of this project could be completed in house. External service providers will be required at a minimum on structural and building mechanical design.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Low Lift Upgrade	0.0	0.0	1,082.0	4,499.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>1,082.0</b>	<b>4,499.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	1,082.0	4,499.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>1,082.0</b>	<b>4,499.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**2565 WTP-TRANSFER PUMPING & ELECTRICAL UPGRADES**

Project Status	Open	Year Identified	2013
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Larry Schultz
Asset Type	Water Treatment Plant	Est. End Date	-

**Project Description**

This project involves the design and construction of dedicated pumps to transfer filtered water from the main plant to the reservoir expansion and ultraviolet disinfection units currently being constructed on the west side of Avenue H.

**General Comments**

The Avenue H reservoir expansion project includes modification of existing pumps to transfer water however this is a temporary solution as the modified pumps are not efficient and there is not sufficient redundancy for high demand circumstances. The work includes a new pump bay, high efficiency pumps designed for the transfer work, and a new electrical and control network.

This project is currently utilizing external providers.

**Special Note**

This project is subject to a Public Notice Hearing for borrowing.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Pumping & Electrical Upgrades	10,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>10,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BORROWING	1,440.0	0.0	0.0	0.0	0.0
OPERATING BUDGET DOWNPAYMENT	160.0	0.0	0.0	0.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	8,400.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>10,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2567 WWTP-RELINING CELL**

<b>Project Status</b>	Open	<b>Year Identified</b>	2013
<b>Project Type</b>	INFRASTRUCTURE MAINTENANCE	<b>Manager</b>	Pam Loran
<b>Asset Type</b>	Sanitary Sewage Storage Tanks	<b>Est. End Date</b>	-

**Project Description**

This project involves removing the existing deteriorated liners of Cell 6 and Cell 7 at the remote sludge disposal facility (N40), repairing imperfections in the impermeable layer and constructing a wear resistant liner.

**General Comments**

The remote sludge disposal facility consists of a series of cells that receive liquid biosolids from the Wastewater Treatment Plant. These cells have an impermeable clay liner and an asphalt wearing surface. Operational activities quickly deteriorate the asphalt wearing surface. This project replaces the asphalt wearing surface with a reinforced concrete or segmental concrete surface that will double the service life. Cell 6 is the largest cell at the N40.

This project will utilize external service providers.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Relining Cell	3,500.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>3,500.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
WASTEWATER TRTMNT CAP RES	3,500.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>3,500.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2568 CIVIC FAC ENERGY & WTR MONITORING**

Project Status	Open	Year Identified	2013
Project Type	ENVIRONMENTAL PROTECTION	Manager	Chris Richards
Asset Type		Est. End Date	-

**Project Description**

This project involves:

- The design and construction required for specifying monitoring metering equipment (energy/water/temperature/etc.), utilizing sub-contractors to install the equipment, commissioning the installations, and then monitoring and storing the data on a web accessible server.
- Retrofitting and re-commissioning civic facilities and operations to reduce energy use, water use and greenhouse gas emissions
- Installation of renewable energy systems
- Replace aging infrastructure and ensure civic facilities are efficiently and effectively performing their intended functions
- Deliver capital renewal in the most efficient manner
- Training and communications to support achievement of project goals

**General Comments**

Fourteen buildings have been equipped with energy monitoring equipment and more are slated based on a cost/benefit evaluation. Monitoring of electricity, gas and water are critical for moving ahead with any Energy Performance Contracting (EPC) work the City proceeds with.

In 2014, the City successfully applied for \$925,000 external funding to design-build Combined Heat and Power onsite heat and electricity generation at the Shaw and Lakewood Civic Centers. These two systems are fully installed and were commissioned in 2016. Optimization and maintenance planning is ongoing.

Energy Performance Contracting (EPC) received in principal approval to proceed with retrofitting a large number of civic facilities to save on utility bills. The key with EPC is to pay for capital costs (internal loan) out of the utility savings after implementing the capital changes. The Energy Services Company engages the necessary sub-consultants and sub-contractors through their own procurement processes and assumes the risk of delivering the Energy Performance Contract.

**Special Note**

This project is subject to a Public Notice Hearing for borrowing.

Council has approved in principle the use of loan periods as long as 30 years. When the package of EPC retrofits is presented for approval, justifications for longer loan periods will be provided in each case.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Energy Performance Contracting	15,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>15,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BORROWING (INTERNAL) NON-PIL	15,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>15,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2571 WTP-CHLORINE ROOM CAPACITY UPGRADE**

Project Status	Open	Year Identified	2014
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Larry Schultz
Asset Type		Est. End Date	-

**Project Description**

This project involves the design and construction of an upgraded chlorine handling facility at the Avenue H Water Treatment Plant to provide disinfection treatment for the new chlorine contact chamber being constructed as part of the Avenue H reservoir expansion project.

**General Comments**

The 2009 Long Term Capital Development and Expansion Plan (LTCDEP) identified a disinfection capacity upgrade was needed to meet the 300 MLD Phase 2 peak design flow. This capacity was included in the reservoir expansion project and results in the existing west basin footprint being scheduled for clarifier expansion. The new chlorine room will meet the capacity requirements of Phase 2 peak design flow, provide modern handling equipment, and updated spill mitigation systems.

External service providers will be used for this project.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Chlorine Room Capacity Upgrade	0.0	2,860.0	2,974.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>2,860.0</b>	<b>2,974.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	2,860.0	2,974.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>2,860.0</b>	<b>2,974.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2578 WWTP-DOWNSTREAM USER STUDY**

Project Status	Open	Year Identified	2014
Project Type	SUPPORT SYSTEMS	Manager	Larry Schultz
Asset Type		Est. End Date	-

**Project Description**

This project involves conducting a downstream user study which defines the existing condition of the South Saskatchewan River upstream and downstream of the Wastewater Treatment Plant and characterizes the changes to the river due to plant effluent and the effect on downstream users.

**General Comments**

The need for the study was identified by the consultant preparing the 2012 Wastewater Treatment Plant Long Term Capital Development and Expansion Plan (WWT-LTCDEP) during discussions with the Saskatchewan Ministry of Environment. The study will be used to establish firm effluent objectives in new regulations.

This project will utilize external service providers.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Downstream User Study	300.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>300.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
WASTEWATER TRTMNT CAP RES	300.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>300.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2579 WWTP-DIGESTER TANK 4**

Project Status	Open	Year Identified	2014
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Larry Schultz
Asset Type		Est. End Date	-

**Project Description**

This project involves the design and construction of a fourth digester at the Wastewater Treatment Plant.

**General Comments**

Increased solids loading in the sewage stream will result in the maximum sludge loading exceeding digester capacity for a 15 day solids retention time (SRT). The fourth digester will provide the required capacity for 15 days SRT and allow a digester to be out of service for maintenance purposes.

This project will utilize external service providers.

**Special Note**

This project is subject to a Public Notice Hearing for borrowing.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
	15,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>15,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BORROWING	4,500.0	0.0	0.0	0.0	0.0
OPERATING BUDGET DOWNPAYMENT	500.0	0.0	0.0	0.0	0.0
WASTEWATER TRTMNT CAP RES	10,000.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>15,000.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2580 WWTP-DIGESTER CLEANING FACILITY**

Project Status	Open	Year Identified	2014
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Larry Schultz
Asset Type		Est. End Date	-

**Project Description**

This project involves the design and construction of the infrastructure to convey, treat and store material removed from digesters during maintenance cleaning.

**General Comments**

Digester cleaning previously resulted in the removed material being deposited in pits on the plant grounds. The cleaning facility will include concrete tanks where dewatering can take place in a controlled manner with the effluent being treated.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Digester Cleaning Facility	0.0	2,080.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>2,080.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
WASTEWATER TRTMNT CAP RES	0.0	2,080.0	0.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>2,080.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2581 WWTP-FACILITY UPGRADE N40/WWTP**

Project Status	Open	Year Identified	2014
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Larry Schultz
Asset Type		Est. End Date	-

**Project Description**

This project involves the design and construction of an additional large cell at the remote sludge handling facility (N40) and the infrastructure to connect the cell to the existing system.

**General Comments**

Average sludge loading will exceed the recommended rate. When this occurs solids carryover returns to the Wastewater Treatment Plant and impacts plant efficiency. The project will provide capacity to year 2032.

This project will utilize external service providers.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Design & Construction	0.0	0.0	0.0	8,999.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>8,999.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
WASTEWATER TRTMNT CAP RES	0.0	0.0	0.0	8,999.0	0.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>8,999.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**2582 WWTP-PEP FORCEMAIN/INFLUENT CHANNEL INSPECTION**

Project Status	Open	Year Identified	2013
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Larry Schultz
Asset Type		Est. End Date	-

**Project Description**

This project involves bypassing the existing primary influent channels and forcemain and conducting a condition assessment of the dewatered infrastructure.

**General Comments**

The primary influent channels and forcemain are critical infrastructure at the Wastewater Treatment Plant. To properly assess their condition it is necessary to bypass the total flow from the primary clarifiers to the bioreactors. This allows a visual inspection of the current condition.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Pep Forcemain/Influent Channel Inspection	0.0	0.0	0.0	0.0	2,317.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2,317.0</b>
<b>FINANCING DETAILS</b>					
WASTEWATER TRTMNT CAP RES	0.0	0.0	0.0	0.0	2,317.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2,317.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2583 WWTP-NEW HEADWORKS**

Project Status	Open	Year Identified	2014
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Larry Schultz
Asset Type		Est. End Date	-

**Project Description**

This project involves the design and construction of an addition to the influent junction chamber, the provision of two additional screens and four additional grit tanks.

**General Comments**

Design peak flow capacity (300 MLD) of the existing headworks is projected to be exceeded by population growth. Upsizing will double the headworks peak flow capacity to 600 MLD which is beyond the 30 year planning period.

This project will utilize external service providers.

**Special Note**

This project is subject to a Public Notice Hearing for borrowing.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
WWTP-NEW HEADWORKS	0.0	0.0	0.0	0.0	1,338.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,338.0</b>
<b>FINANCING DETAILS</b>					
WASTEWATER TRTMNT CAP RES	0.0	0.0	0.0	0.0	1,338.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,338.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2584 WWTP-PRIMARY CHANNELS**

Project Status	Open	Year Identified	2014
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Larry Schultz
Asset Type		Est. End Date	-

**Project Description**

This project involves the design and construction of additional channels to convey primary effluent from new headworks to new primary settling basins

**General Comments**

The project is one component of the plan to double the peak capacity of the plant to meet projected flows from population growth. This project will utilize external service providers.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Primary Channels	0.0	0.0	0.0	0.0	983.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>983.0</b>
<b>FINANCING DETAILS</b>					
WASTEWATER TRTMNT CAP RES	0.0	0.0	0.0	0.0	983.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>983.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2585 WWTP-BIOREACTOR EXPANSION**

Project Status	Open	Year Identified	2014
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Larry Schultz
Asset Type		Est. End Date	-

**Project Description**

This project involves design and construction of a third bioreactor including access tunnels as part of the general plant expansion

**General Comments**

Maximum loading rates will exceed existing bioreactor capacity by the year 2022. The third bioreactor will meet treatment requirements for TSS, BOD, TP and nitrogen until 2041.

This project will utilize external service providers.

**Special Note**

This project is subject to a Public Notice Hearing for borrowing.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Bioreactor Expansion	0.0	0.0	2,704.0	12,421.0	12,795.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>2,704.0</b>	<b>12,421.0</b>	<b>12,795.0</b>
<b>FINANCING DETAILS</b>					
BORROWING	0.0	0.0	0.0	2,970.0	10,080.0
OPERATING BUDGET DOWNPAYMENT	0.0	0.0	0.0	330.0	1,120.0
WASTEWATER TRTMNT CAP RES	0.0	0.0	2,704.0	9,121.0	1,595.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>2,704.0</b>	<b>12,421.0</b>	<b>12,795.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2589 TR-TECHNOLOGY PLAN**

Project Status	Open	Year Identified	2016
Project Type	SUPPORT SYSTEMS	Manager	James McDonald
Asset Type		Est. End Date	-

**Project Description**

This project will ensure Transit has adequate funding to replace current technology and modernize existing infrastructure.

**General Comments**

This project will fund technology purchases for conventional transit. These purchases include items such as computer, AV equipment, point of sale terminals for bus passes, and other technology or equipment as Administration identifies. It will also be used to maintain our current software infrastructure with Trapeze and BEA through regular system health checks, upgrades and any additional modules that would benefit the organization.

**Operating Impact**

2019 - \$5,000 for software annual maintenance agreements on new modules.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Equipment Purchases	190.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>190.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>FINANCING DETAILS</b>					
TRANSIT CAPITAL PROJECTS RESERVE	190.0	100.0	100.0	100.0	100.0
<b>Total</b>	<b>190.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	5.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2590 WTP-SECURITY RESILIENCE ASSESSMENT PROGRAM**

Project Status	Open	Year Identified	2018
Project Type		Manager	Reid Corbett
Asset Type		Est. End Date	-

**Project Description**

This project will design an implementation strategy based on the recommendations from the Regional Resiliency Assessment that was done by Public Safety Canada for Saskatoon Water.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
Security Resilience Assessment Program Design	100.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
WATERWORKS CAPITAL PROJECTS RESERVE	100.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2600 CY-CITY CENTRE AREA INDOOR RECREATION FACILITY**

Project Status	Open	Year Identified	2014
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Lynne Lacroix
Asset Type		Est. End Date	-

**Project Description**

This project will undertake the design and construction of new and/or upgraded recreation facilities in the City centre area, with a plan to explore partnership opportunities for the construction and operations of the facility.

**General Comments**

The City of Saskatoon Strategic Plan (2013-2023) has a strategic goal of Quality of Life, which indicates our neighbourhoods are complete communities that offer a range of housing options, employment opportunities, arts, culture, and recreation facilities. Citizens should have access to facilities and programs that promote active living and bring people together. New and/or upgraded recreation facilities in the city centre area will provide opportunities for residents to have access to, and participate in, leisure activities that better meet the needs of citizens living in a core neighbourhood.

Partnership discussions, business case development, and community engagement were undertaken in 2015. In 2016 the Partners collectively decided to pursue new partnership opportunities moving forward. In 2018, partnership opportunities will be further explored, and if a partnership is formed a confirmation of commitments will be formalized through a memorandum of agreement. Then, pending necessary approvals and formal agreement, the design of a new recreation facility in or around White Buffalo Youth Lodge could occur in 2021, with construction commencing as early as 2022, with the new facility possibly opening in 2024.

**Operating Impacts**

The operating impacts for 2024 would be:

\$235,000 Contribution to Reserve

\$490,000 Facility Maintenance

\$255,000 Utilities

Staffing, other operating costs and revenues to be determined

**Prior Budget Approval**

\$150,000 Business Plan Development cost shared by the City of Saskatoon, Saskatoon Tribal Council, and YMCA

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2018	2019	2020	2021	2022
<b>GROSS COST DETAILS</b>					
City Centre Leisure Facility - Design	0.0	0.0	0.0	1,000.0	1,000.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,000.0</b>	<b>1,000.0</b>
<b>FINANCING DETAILS</b>					
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	1,000.0	1,000.0
<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1,000.0</b>	<b>1,000.0</b>
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2018	2019	2020	2021	2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2604 CY- DRAINAGE REGULATION**

Project Status	Open	Year Identified	2017
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Andrew Hildebrandt
Asset Type		Est. End Date	-

**Project Description**

This project provides for the development of a regulatory compliance framework to control drainage.

**General Comments**

Currently, there are significant gaps in the regulatory environment for drainage development on both residential and commercial property. This leads to incorrect elevation control, which in turn may lead to flooding and ineffective movement of surface water. This 2 year project provides for the research, design, and development of a regulatory compliance framework to control drainage on residential and commercial properties. A model for Saskatoon will be selected and designed with appropriate resourcing, funding, permitting and cost recovery requirements.

The 2018 budget will provide funding for project management and development as well as communication and stakeholder consultation to continue through to completion of the project.

**Prior Budget Approval**

\$125,000

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Communications/Engagement	25.0	0.0	0.0	0.0	0.0
Research & Development	100.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>125.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
BLDG PERMITS/INSPECT STAB RESERVE	62.0	0.0	0.0	0.0	0.0
INFRA RES - STORM WATER	63.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>125.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0



**2605 CY-REGIONAL PLAN IMPLEMENTATION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2018
<b>Project Type</b>	STUDY/PLANNING	<b>Manager</b>	Laura Hartney
<b>Asset Type</b>	Studies - Non capitalized expenditure	<b>Est. End Date</b>	-

**Project Description**

This project will provide the resources to implement the Regional Plan created by the Saskatoon North Partnership for Growth (P4G). P4G comprises the City of Saskatoon, the Rural Municipality (RM) of Corman Park, the City of Warman, the City of Martensville and the Town of Osler, with advisory representation from the Saskatoon Regional Economic Development Authority.

**General Comments**

The P4G Regional Plan enables the P4G municipal partners to grow to a regional population of 1 million. It comprises a vision and guiding principles, land use policies and a Regional Land Use Map that will form a new P4G Official Community Plan, a P4G Servicing Strategy, and a P4G Governance and Implementation Strategy.

The P4G Governance and Implementation Strategy identifies the projects needed to implement the Regional Plan. These projects will be completed by the P4G municipal partners over a number of years, subject to Capital Budget approvals. The projects that require capital funding are listed below. The Concept Plans will be cost shared between the City of Saskatoon and the RM of Corman Park. The remaining projects will be cost-shared between the P4G municipal partners:

- P4G Zoning Bylaw
- Concept Plans for the identified future urban growth areas of the City of Saskatoon, to enable interim development that aligns with future urban development
- Green Network Refinement Study, to inventory culverts and drainage infrastructure and refine the boundaries of the Green Network on the Regional Land Use Map
- Regional Potable Water Servicing Plan
- Regional Wastewater Servicing Plan
- Regional Travel Demand Model Update
- Regional Transportation Plan
- Regional Wetlands Inventory and Policy
- Regional Natural and Heritage Resource Inventory
- Regional Natural Areas Strategy

The specific projects to be undertaken in 2018 will be determined with the P4G municipal partners, whose budget approval schedules differ from that of the City of Saskatoon. It is expected that the following projects will be prioritized:

- P4G Zoning Bylaw, which must be adopted at the same time as the P4G Official Community Plan
- Concept Plans for the areas immediately northwest and southeast of Saskatoon, which have been priorities for interim development

Capital funding will provide for the following project elements, subject to the P4G municipal partners approving the approach for each project:

- temporary staff
- consulting contracts where needed given implementation timelines, internal expertise, and internal resources
- data

**Special Note**

These projects will be co-funded by the P4G municipal partners, subject to budget approvals. It has been estimated that the Rural Municipality of Corman Park will contribute half of the Concept Plan costs, and the P4G municipal partners will contribute two-thirds of the costs of the other projects.

**Operating Impact**

An operating grant from the City of Saskatoon is proposed to fund the new joint governance and administrative structure for the region, including a Regional Coordinator who will lead the creation of the structure and manage the projects needed to implement the Regional Plan. The proposed 2018 operating grant is \$76,000, representing one-third of the annual cost. The balance of the annual cost for the new joint structure is proposed to be funded by the P4G municipal partners, subject to budget approvals.

In addition to the operating grant, in 2019 and 2021 the operating impact would increase by \$122,100 and \$97,300 respectively, for additional City staff resources to ensure the City meets its obligations under the Regional Plan. This work would include ensuring the City's bylaws, policies and plans align with the Regional Plan, and responding to policy and development referrals from the region.

## Prior Budget Approval

\$1,239,900 (Includes \$836,152 from the P4G municipal partners) - under Capital Project 2460 - Regional Planning

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Concept Plan - East	0.0	0.0	0.0	303.0	0.0
Concept Plan - North East Phase 1	0.0	0.0	300.0	0.0	0.0
Concept Plan - North East Phase 2 & North Central	0.0	0.0	0.0	0.0	306.0
Concept Plan - NW and SE	660.0	0.0	0.0	0.0	0.0
Green Network Refinement Study	0.0	100.0	50.0	50.0	50.0
P4G Zoning Bylaw	125.0	0.0	0.0	0.0	0.0
Regional Potable Water Servicing Plan	0.0	300.0	0.0	0.0	0.0
Regional Transportation Plan	0.0	0.0	0.0	0.0	300.0
Regional Travel Demand Model Update	0.0	0.0	0.0	150.0	0.0
Regional Wastewater Servicing Plan	0.0	0.0	300.0	0.0	0.0
<b>Total</b>	<b>785.0</b>	<b>400.0</b>	<b>650.0</b>	<b>503.0</b>	<b>656.0</b>
<b>FINANCING DETAILS</b>					
EXTERNAL FUNDING	0.0	0.0	0.0	50.0	0.0
OTHER	330.0	266.0	383.0	234.0	386.0
RESERVE FOR CAPITAL EXPENDITURES	455.0	0.0	0.0	0.0	0.0
UNFUNDED RCE	0.0	134.0	267.0	219.0	270.0
<b>Total</b>	<b>785.0</b>	<b>400.0</b>	<b>650.0</b>	<b>503.0</b>	<b>656.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	122.1	0.0	97.3	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2609 CP - COUNCIL STRATEGIC PRIORITY AREAS**

Project Status	Open	Year Identified	2018
Project Type	SUPPORT SYSTEMS	Manager	Jordan Sherbino
Asset Type	Studies - Non capitalized expenditure	Est. End Date	-

**Project Description**

This project is designed to support the members of City Council with work in their assigned strategic priority areas.

**General Comments**

The project will allow members of City Council to allocate funds to city wide work in their assigned priority areas. There are 10 priority areas that have unique needs and projects within the priority areas that are at varying stages of being developed. Staff from the Mayor's Office will work with members of City Council to create proposals to access these funds. The funds in this capital project will be for work related to a member of City Council's assigned priority area, and not for ward-specific work.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Strategic Priority Areas	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
RESERVE FOR CAPITAL EXPENDITURES	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
Incremental Operating Impacts (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2610 POLICE-TECHNOLOGY EXPANSION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2014
<b>Project Type</b>	EQUIPMENT REPLACEMENT	<b>Manager</b>	Earl Warwick
<b>Asset Type</b>		<b>Est. End Date</b>	-

**Project Description**

This project allows for the purchase of additional technological equipment including computers, and associated hardware and software as well as other equipment that utilizes computer technology.

**General Comments**

The 2018 project calls for funding to support an expansion to network infrastructure, detention video storage, equipment issuing record system, auto login system and video down link system to improve communications. \$250,000 of this project will be dependent on external government agency funding.

Future year projects include continued expansion to network storage and a property control management system.

**Operating Impact**

Anticipated increases are \$0 in 2018 and \$0 in 2019.

<b>Project Detail Expenditure/Funding (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
<b>GROSS COST DETAILS</b>					
ASU Tech Package	250.0	0.0	0.0	0.0	0.0
Equipment Purchase	128.0	112.0	43.0	0.0	0.0
Server Expansion	25.0	25.0	25.0	25.0	25.0
Storage Area Network	128.0	125.0	125.0	125.0	125.0
<b>Total</b>	<b>531.0</b>	<b>262.0</b>	<b>193.0</b>	<b>150.0</b>	<b>150.0</b>
<b>FINANCING DETAILS</b>					
POLICE OPER EQUIP & TECH RES	281.0	262.0	193.0	150.0	150.0
PRIVATE CONTRIBUTIONS	250.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>531.0</b>	<b>262.0</b>	<b>193.0</b>	<b>150.0</b>	<b>150.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2615 POLICE - PROPERTY CONTROL EQUIPMENT MANAGEMENT SYSTEM**

Project Status	Open	Year Identified	2015
Project Type	SUPPORT SYSTEMS	Manager	Earl Warwick
Asset Type		Est. End Date	-

**Project Description**

This project provides for the purchase of a management system for storage and distribution of equipment used by Police operations including radios, fleet vehicle keys, etc.

**General Comments**

The purchase of a secure equipment management system will improve the management of assets held in Police Property Control. This system will be used to track daily issue of equipment, provide reporting and improve accountability. It will also provide increased safety and improve control of accessibility while assisting to maximize equipment utilization. In addition a new equipment management system will provide auditing and inventory control functions as well as automation of sign out and trouble sheet procedures.

The new system is also anticipated to provide selective reporting available in real time and will reduce the requirement of Property Control Commissionaires for intake and sign out, leaving them to perform daily maintenance and restocking. As well the new system is expected to include a secure key/locker system to help enforce operational processes, lower operational costs and administrative overhead, with the ability to control, monitor and record the use of physical assets by electronically issuing and controlling disbursement of Property Control assets. A key/locker management system provides instant information as to the current and previous user as well as a complete history of the key usage. IT/Administrators can also restrict access to individual keys/lockers thus enabling cost effective and efficient utilization of vehicles.

**Operating Impact**

No increase anticipated for 2018.

Project Detail Expenditure/Funding (000's)	Budget 2018	Plan 2019	Plan 2020	Plan 2021	Plan 2022
<b>GROSS COST DETAILS</b>					
Property Control Equip Mgmt System	0.0	100.0	50.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>100.0</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
POLICE FAC RENOVATION RES	0.0	100.0	50.0	0.0	0.0
<b>Total</b>	<b>0.0</b>	<b>100.0</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental Operating Impacts (000's)</b>	<b>Budget 2018</b>	<b>Plan 2019</b>	<b>Plan 2020</b>	<b>Plan 2021</b>	<b>Plan 2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2618 POLICE-FACILITY RENOVATION**

<b>Project Status</b>	Open	<b>Year Identified</b>	2017
<b>Project Type</b>	INFRASTRUCTURE MAINTENANCE	<b>Manager</b>	Earl Warwick
<b>Asset Type</b>	Building Contents	<b>Est. End Date</b>	-

**Project Description**

This project provides for the renovation of Police Facilities that require alteration and improvements.

**General Comments**

This project will enable the Police Service to improve and alter existing facilities based on condition assessments, expansion, industry standards and for life expectancy.

2018 funding is requested to provide facilities a way to handle dangerous goods and remediation of old facilities.

**Operating Impact**

No increase anticipated for 2018.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Police Non-HQ Modifications	385.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>385.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
POLICE FAC RENOVATION RES	385.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>385.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

**2622 SO-COMPREHENSIVE GOVERNANCE REVIEW**

<b>Project Status</b>	Open	<b>Year Identified</b>	2017
<b>Project Type</b>	STUDY/PLANNING	<b>Manager</b>	Patti Warwick
<b>Asset Type</b>	Studies - Non capitalized expenditure	<b>Est. End Date</b>	-

**Project Description**

The purpose of this project is to undertake a comprehensive review of the governance structures, models, practices and procedures of the following:

- Advisory Committees
- Controlled Corporations (e.g. SaskTel Centre, TCU Place)
- Business Improvement Districts
- Any other Agency, Board or Commission established by the City of Saskatoon

The project will hire a research coordinator to collect and analyze information, and meet with appropriate stakeholders.

The goal is to improve the governance structure of these organizations so City Council and the community have confidence that these organizations are making the best possible decisions in delivering their individual mandates.

The outcome of this project will result in the Administration making recommendations to the Governance and Priorities Committee for their consideration and ultimately, City Council for implementation.

**General Comments**

In order to accomplish the necessary work for this project, the Administration requires short-term resources that can be dedicated to it. These resources will be dedicated to the collection and analysis of information, meetings with key stakeholders, and review of best practices.

This project is an extension of the previous changes to modernize City Council's governance structure and procedures bylaw.

<b>Project Detail</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Expenditure/Funding (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
<b>GROSS COST DETAILS</b>					
Board Review	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>FINANCING DETAILS</b>					
RESERVE FOR CAPITAL EXPENDITURES	50.0	0.0	0.0	0.0	0.0
<b>Total</b>	<b>50.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Incremental</b>	<b>Budget</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>	<b>Plan</b>
<b>Operating Impacts (000's)</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

Project Number	Project Title	Business Line	Page Number
1812	SASKTEL CENTRE-EQUIPMENT PURCHASES	Arts, Culture and Events Venues	158
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1834	REMAI MODERN- EQUIPMENT PURCHASES	Arts, Culture and Events Venues	161
1650	CY-NEW MUNICIPAL CEMETERIES	Community Support	146
1963	TU-CORP. ACCESSIBILITY IMPLEMENTATION	Community Support	173
1657	CY-WOODLAWN CEMETERY ROADWAY UPGRADE	Community Support	147
0679	AF-GROUNDS MTNCE-EQUIPMENT REPL	Corporate Asset Management	23
0877	AF-TRUNKING RADIO INFRASTRUCTURE REPLACEMENT	Corporate Asset Management	40
1135	AF-CIVIC BLDGS COMPREHENSIVE MAINTAINANCE PROGRAM	Corporate Asset Management	51
1356	AF-V&E ADD'L VEHICLES & EQUIPT	Corporate Asset Management	79
1357	AF-V&E REPL'T VEHICLES & EQUIPT	Corporate Asset Management	80
1584	CIVIC OPERATIONS CENTRE	Corporate Asset Management	135
1949	AF-SERVICE SASKATOON - STAFFING ACCOMMODATION	Corporate Asset Management	172
2180	AF-CIVIC FACILITY SITE MAINTENANCE	Corporate Asset Management	196
1361	AF-V&E FUEL STATIONS	Corporate Asset Management	81
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1557	TU-OFFICE MOD'NS/FURNITURE REPL/UPGRADES	Corporate Asset Management	124
2296	AF-LIONS ARENA PARKING REDEVELOPMENT & SEWER UPGRADE	Corporate Asset Management	218
1929	AF-CSR BUILDING RENOS	Corporate Asset Management	166
1948	AF-FLEET GLOBAL POSITIONING SYSTEM	Corporate Asset Management	171
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2367	CP-VOICE OVER INTERNET PROTOCOL	Corporate Governance and Finance	225
1083	CP-CORPORATE NETWORK EQUIPMENT REPL	Corporate Governance and Finance	50
2368	AF-PRINTING AND MAIL SERVICES - EQUIPMENT	Corporate Governance and Finance	226
1884	CK-ELECTRONIC AGENDA & MEETING MGT SYSTM	Corporate Governance and Finance	164
2531	AF-PORTFOLIO MANAGEMENT SYSTEM REPLACEMENT	Corporate Governance and Finance	265
2516	CP-DEVELOP ENTERPRISE MANAGEMENT STRATEGIES	Corporate Governance and Finance	261
2519	COMMUNITY WINTER CITY STRATEGY DEVELOPMENT	Corporate Governance and Finance	262
2540	CIVIC CONSERVATORY REPAIR/REPLACEMENT	Corporate Governance and Finance	268
1942	AF-CORPORATE SECURITY PLAN	Corporate Governance and Finance	170
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