

Shaping Our Financial Future

**2017 APPROVED CAPITAL
PROJECT DETAILS**

City of Saskatoon

2017 APPROVED

CAPITAL PROJECT DETAILS

APPROVED BY CITY COUCIL,
APRIL 24, 2017

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 FR-APPAR-REFURB/REPL/ADD'L

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

Project Description

This project provides the replacement, refurbishment, and/or addition of fire fighting equipment, in accordance with the Capital Reserves Bylaw.

General Comments

The estimates include the replacement of Self Contained Breathing Apparatus (SCBA) (\$24,000), Radio equipment (\$97,000), thermal imaging camera (\$12,000), Rescue Tools (\$22,000), EMS Defibrillator and equipment (\$2,000), water rescue equipment including dive packs, regulators, vests (\$12,000), dangerous goods equipment including detectors, monitors, chemicals (\$24,000), technical equipment including high angle rescue, trench rescue, HUSAR rescue (\$11,000), and apparatus equipment including nozzles, sawzalls, airbags (\$23,000) from the small equipment reserve.

The estimated reserve balance at the end of 2017 is \$152,000.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Fire Small Equipment Replacement	228.0	369.0	304.0	296.0	324.0
Total	228.0	369.0	304.0	296.0	324.0
FINANCING DETAILS					
FIRE SMALL EQUIPMENT REPL RESERVE	228.0	369.0	304.0	296.0	324.0
Total	228.0	369.0	304.0	296.0	324.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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

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 7 years, Transit put forward a report called "Building Better Transit: an Asset Management Plan for Transit and Access Transit Fleet" and was adopted by City Council 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 40 conventional buses over the period 2016 to 2018. In 2016, an order of up to 15 Transit low-floor buses at an estimated cost of \$7.95 million was placed and expected for delivery in 2017.

In 2017, Transit is planning to purchase up to 29 buses based on service needs with a combination of regular size low-floor and 30 foot buses worth \$14.49 million.

A conventional (low floor) bus is estimated at \$530,000 and an articulated bus at \$800,000. Refurbishments are estimated at \$87,000 per bus.

Special Note

The Other funding sources identified in this project include: 1) For 2017 budget, \$7.245 million is the City's matching contribution for the Public Transit Infrastructure Fund which will be funded from a reallocation of utility dividend from Building Canada funded utility projects; 2) For 2019-2021 plans, the funding strategy consists mainly of government funding, borrowing, and operating contributions which is tracked through the Major Transportation Infrastructure Funding Plan.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Funded Bus Refurbishment	870.0	890.0	900.0	910.0	920.0
Funded Bus Replacement/Refurbs	14,490.0	0.0	5,000.0	3,200.0	3,200.0
Total	15,360.0	890.0	5,900.0	4,110.0	4,120.0
FINANCING DETAILS					
OTHER	7,245.0	0.0	5,000.0	3,200.0	3,200.0
PTIF - FEDERAL	7,245.0	0.0	0.0	0.0	0.0
TRANSIT VEHICLE REPLACEMENT RESERVE	870.0	890.0	900.0	910.0	920.0
Total	15,360.0	890.0	5,900.0	4,110.0	4,120.0
Incremental					
Operating Impacts (000's)	Budget	Plan	Plan	Plan	Plan
	2017	2018	2019	2020	2021
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 new and 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 \$530,000.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Additional Buses Purchases	0.0	0.0	530.0	0.0	0.0
Total	0.0	0.0	530.0	0.0	0.0
FINANCING DETAILS					
TRANSIT ADDITIONAL VEHICLES RESERVE	0.0	0.0	530.0	0.0	0.0
Total	0.0	0.0	530.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

0607 PARK DEV-STONEBRIDGE NBRHD

Project Status	Open	Year Identified	2009
Project Type	PREPAID LAND DEVELOPMENT	Manager	Bruce Laing
Asset Type	Parks and Open Spaces	Est. End Date	-

Project Description

This project involves the development of neighbourhood parks in Stonebridge. Estimates for amenities to be installed by the private owner are not shown.

General Comments

Construction of two linear parks and completion of a section of the Village Square are planned for 2017.

Operating Impact

\$14,600 in 2019 for Park Maintenance

Prior Budget Approval

\$318,000 for the design and partial construction of the Village Square

\$ 39,000 for design of two linear parks

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Linear Parks	373.0	0.0	0.0	0.0	0.0
Village Square	120.0	0.0	0.0	0.0	0.0
Total	493.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
PARKS AND RECREATION LEVY (NBHD)	493.0	0.0	0.0	0.0	0.0
Total	493.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	14.6	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)
MNN1	930	1,050	2015	(Required for UHII & NE Sector)
NP	170	600	2015	(Required for UHII & NE Sector)
N1N2	360	600	2017	(Required for UHII & NE Sector)
N2N	300	600	2018	(Required for UHII & NE Sector)
PP1	660	600	2018	(Required for UHIII & NE Sector)
LK	670	600	2019	(Required for UHIII & NE Sector)
KPP1	4,085	600	Beyond 2021	(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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
CO-McOrmond-Attridge to HWY 5	175.0	0.0	0.0	0.0	0.0
Fill Mains-Cent/NE Res aka Evergreen (now Land Dev project)	0.0	0.0	3,245.0	4,499.0	0.0
Fill Mains-Cent/PMW's - Acadia/Zone	0.0	0.0	0.0	6,749.0	7,019.0
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	1,195.0	0.0	895.0	0.0
Total	175.0	1,195.0	4,458.0	12,143.0	7,019.0
FINANCING DETAILS					
PRIMARY WATERMAIN RES	175.0	1,195.0	1,213.0	895.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	3,245.0	11,248.0	7,019.0
Total	175.0	1,195.0	4,458.0	12,143.0	7,019.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Somers Road/Fedoruk	0.0	4,392.0	0.0	0.0	0.0
Total	0.0	4,392.0	0.0	0.0	0.0
FINANCING DETAILS					
ARTERIAL ROAD RESERVE	0.0	4,392.0	0.0	0.0	0.0
Total	0.0	4,392.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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 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

Notes: 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.

SECTION	LENGTH (m)	SIZE (mm)	YEAR(s)	
River to A	-	3050/1,200	1980/84	Complete
AA' Isolate NE sector water system at College	900	3,050/1,200	1984/85	Complete
AB	300	1800/525	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	(Reqd for east Sector)
CE	630	1,800/450	2003/2004	(Reqd for Willow Grove, Complete)
E-Willowgrove North Basin	3,100	-	2005	(Reqd for North Willow Grove, Complete)
EE-Phase I	570	1,650	2005	(Reqd for North Willow Grove, Complete)
EE-Phase II	710	1,350	2006	(Reqd for North Willow Grove, Complete)
F-Willowgrove South Basin	-	-	2003/2008	(Reqd for South Willow Grove, Complete)
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	2009/2012	(Reqd for Evergreen, Complete)
Pond #1	-	-	2009	(Reqd for Evergreen, Complete)
Pond #1 to River	1,400	1,500	2009	(Reqd for Evergreen, Complete)
Lift Station	-	-	2013	(Reqd for UH2)
Force Main - MI	3,582	450	2013	(Reqd for UH2)
Stm Tr-S. Willow Grove		Open Channel	2008	(Reqd for South Willow Grove, Complete)
Pond 2	-	-	2015	(Reqd for UH2)
MN/MO-O'/MN'	1,690	375/450/525/600	2014 & Beyond	(Reqd for UH2)
-San Trunks				
ST, TU, TV Stm Trunk	2,350	1,350/1,800	2013 & Beyond	(Reqd for UH2)
FGG' - Force Main San	1,600	450	2019	(Reqd UH3, & UH4)
Temp. LS San	-	-	2019	(Reqd. for UH3)
FGHH' - Trunk San	2,475	450/750	2019/2021	(Reqd for UH3)
EF - River Xing San	-	-	2021 & Beyond	(River Crossing reqd. for UH3/UH4/FG)
HH'/H'I ST	1,730	1350/1500/1800	2020/2021	(Reqd. for UH3)
Pond 3 ST	-	-	2020	(Reqd. for UH3)
FJKL San	2,500	900/1,200	Beyond 2021	(Reqd. for UH3 & UH4)
OPQR/QXY/WT' ST	5,630	1350/1500/1800/2100	Beyond 2021	(Reqd. for UH3 & UH4)
Pond4 ST	-	-	Beyond 2021	(Reqd. for UH3) @ North of NE Swale
Pond 5 ST	-	-	Beyond 2021	Reqd. for UH3/UH4

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

Land Development

Prior Budget Approvals

Approved 2017

\$90,259,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
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	3,097.0
San Trunks - UH2 - MN,MM', MOO'	200.0	0.0	0.0	0.0	0.0
Total	200.0	0.0	6,783.0	0.0	5,797.0
FINANCING DETAILS					
TRUNK SEWER RESERVE	200.0	0.0	6,783.0	0.0	5,797.0
Total	200.0	0.0	6,783.0	0.0	5,797.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	595.0	0.0	0.0	0.0	0.0
Total	595.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
PROPERTY REALIZED RES	100.0	0.0	0.0	0.0	0.0
WARRANTY RESERVE	495.0	0.0	0.0	0.0	0.0
Total	595.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Fencing - Rosewood	0.0	59.0	0.0	0.0	0.0
Fencing-Brighton	0.0	31.0	0.0	0.0	0.0
Fencing-Kensington	0.0	56.0	0.0	0.0	0.0
Total	0.0	146.0	0.0	0.0	0.0
FINANCING DETAILS					
FENCING RESERVE	0.0	146.0	0.0	0.0	0.0
Total	0.0	146.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
CONSTRUCTION	100.0	100.0	100.0	100.0	100.0
Total	100.0	100.0	100.0	100.0	100.0
FINANCING DETAILS					
TRAFFIC SAFETY RESERVE	100.0	100.0	100.0	100.0	100.0
Total	100.0	100.0	100.0	100.0	100.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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	Engineering Consultant to propose Wetland System
AB	613	1500/3050	2006	Complete
BC	400	1200/2400	2006	Complete
CD	673	1200/2100-2400	2006	Complete
DD'/D'EFN	1,020	1050/1050-1200	2011/2012	Complete
FG	1,000	1050	2013	Complete
DT Pond #2 Wet Pond)	-	-	2012	(Conversion of Existing Wetland to 12.1 ha
HN	470	1350	2013	
EI	887	900/1500	2019	
IJ St.	500	1050	2021	Reqd for area west of Faithfull
IK San	825	1050	2021	Reqd for area N of 71st Street
BC'CD'	900	1050/2100	2014	
BI	640	1050/2100	2009	
STM Pond #1	-	Dry pond	2009	
D'E San	830	750	2018	
D'E St.	830	1800	2018	
D'K San	2,100	900	2021	West of CN
D'S St.	1,200	900	2021	West of CN to Swale
SL St.	2,000	1050	Beyond 2021	Reqd for area west of swale
KL San	1,400	1200	Beyond 2021	Reqd for area west of swale
LL' San	800	450	Beyond 2021	Sanitary Trunk
EF San	1,165	750	2020	Sanitary Trunk east of Wanuskewin
EFF' St.	1,550	600	2020	Storm Trunk east of Wanuskewin
Pond 11 St.	-	-	2020	
FF' San	800	600	Beyond 2021	
FF' St.	800	600	Beyond 2021	
Pond 12 St.	-	-	Beyond 2021	
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

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
D'E - Sanitary & Storm Trunk - N of CNH	50.0	6,589.0	0.0	0.0	0.0
D'K - San & Stm - West of Arthur Rose	0.0	0.0	0.0	0.0	7,126.0
EF - SAN/EFF"STM/POND II	0.0	0.0	0.0	8,770.0	0.0

Land Development

Approved 2017

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
EI - Faithfull E - Marquis to 71st	0.0	100.0	3,611.0	0.0	0.0
FG	200.0	0.0	0.0	0.0	0.0
IJ/IK - San & Stm (71st & Idylwyld)	0.0	0.0	0.0	0.0	2,275.0
Total	250.0	6,689.0	3,611.0	8,770.0	9,401.0
FINANCING DETAILS					
TRUNK SEWER RESERVE	250.0	6,689.0	3,611.0	8,770.0	9,401.0
Total	250.0	6,689.0	3,611.0	8,770.0	9,401.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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	-	-	Beyond 2021
Storage Basin			
AB	2,200	600	Beyond 2021
DE - Sewage Lift	620	200	Beyond 2021
Station & Forcemain			

* 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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Stm Wtr Storage Basin A	0.0	0.0	0.0	50.0	0.0
Total	0.0	0.0	0.0	50.0	0.0
FINANCING DETAILS					
TRUNK SEWER RESERVE	0.0	0.0	0.0	50.0	0.0
Total	0.0	0.0	0.0	50.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Buffers - Brighton	0.0	118.0	0.0	0.0	0.0
Buffers - Elk Point	0.0	20.0	0.0	0.0	0.0
Buffers - Kensington	61.0	277.0	36.0	0.0	0.0
Buffers - Rosewood	0.0	210.0	0.0	0.0	0.0
Total	61.0	625.0	36.0	0.0	0.0
FINANCING DETAILS					
BUFFER RESERVE	61.0	625.0	36.0	0.0	0.0
Total	61.0	625.0	36.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
6th Collector to 8th Street	0.0	0.0	0.0	0.0	2,481.0
Brighton Blvd to Brighton Common	0.0	3,934.0	0.0	0.0	0.0
Brighton Common to 6th Collector	0.0	0.0	0.0	3,794.0	0.0
Fedoruk to Feheregyhazi/Swale	6,742.0	0.0	0.0	0.0	0.0
Total	6,742.0	3,934.0	0.0	3,794.0	2,481.0
FINANCING DETAILS					
ARTERIAL ROAD RESERVE	6,742.0	3,934.0	0.0	3,794.0	2,481.0
Total	6,742.0	3,934.0	0.0	3,794.0	2,481.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 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

\$9,400 in 2020 (average annual life cycle cost of 175 trees at \$53.50 per tree)

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	150.0	150.0	150.0	150.0	150.0
Total	150.0	150.0	150.0	150.0	150.0
FINANCING DETAILS					
PARKS AND RECREATION LEVY (MULTI-DISTRICT)	150.0	150.0	150.0	150.0	150.0
Total	150.0	150.0	150.0	150.0	150.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	9.4	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 is moving to the Civic Operations Centre (Project 1584) and the auxiliary equipment required by Transit has been included in Project 1584; therefore no funding request for this project in 2017.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Equipment Purchase	0.0	100.0	100.0	100.0	100.0
Total	0.0	100.0	100.0	100.0	100.0
FINANCING DETAILS					
TRANSIT CAPITAL PROJECTS RESERVE	0.0	100.0	100.0	100.0	100.0
Total	0.0	100.0	100.0	100.0	100.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

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

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Repairs	0.0	0.0	60.0	0.0	50.0
Total	0.0	0.0	60.0	0.0	50.0
FINANCING DETAILS					
ALBERT MAJOR REPAIR RES	0.0	0.0	60.0	0.0	50.0
Total	0.0	0.0	60.0	0.0	50.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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

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:

Auger - \$2,500
 Aerator - \$12,000
 Backhoe - \$100,000
 3x Blower - \$900
 Chainsaw - gas (0-50 cc) - \$650
 Chainsaw - gas (0-50 cc) - \$1,000
 Metal Detector - \$1,200
 3 x Mini-Haul Truck - \$40,500
 Rototiller - 2.5 HP - \$900
 Sprayer - \$2,000
 Sweeper - vacuum - \$80,000
 2 x Trailer (2 axle) - \$17,000
 Tree Spade - large - \$21,000
 Water Cannon - \$4,000
 21 x Weed Trimmer - \$12,600
 Tractor 40-50 HP - \$50,000
 Tractor - over 60 HP - \$67,000
 Mower 6' - 4 wheel Drive - \$30,000
 Mower 36" walk behind - \$3,500
 Mower 11' - \$67,800
 Stump Cutter - \$35,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Equipment Purchase	550.0	410.0	265.0	360.0	400.0
Small Equipment Replacement Review	50.0	0.0	0.0	0.0	0.0
Total	600.0	410.0	265.0	360.0	400.0
FINANCING DETAILS					
GROUND'S MAINTENANCE EQUIPMENT RES	550.0	410.0	265.0	360.0	400.0
OPERATING FUND CONTRIBUTION	50.0	0.0	0.0	0.0	0.0
Total	600.0	410.0	265.0	360.0	400.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Rosewood Gate North to Rosewood Drive	0.0	0.0	3,519.0	0.0	3,207.0
Total	0.0	0.0	3,519.0	0.0	3,207.0
FINANCING DETAILS					
ARTERIAL ROAD RESERVE	0.0	0.0	3,519.0	0.0	3,207.0
Total	0.0	0.0	3,519.0	0.0	3,207.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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.

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
DE	955	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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
D'E - Taylor - Rosewood Gate N to Rosewood E	50.0	2,873.0	0.0	0.0	0.0
Total	50.0	2,873.0	0.0	0.0	0.0
FINANCING DETAILS					
PRIMARY WATERMAIN RES	50.0	2,873.0	0.0	0.0	0.0
Total	50.0	2,873.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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 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 labelled Existing System Replacements. This provides funding for assets that experience premature failure and require immediate return to service.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Bioreactors - Pumps & Processes	516.0	0.0	1,109.0	0.0	0.0
Digester - Pumps	75.0	78.0	81.0	84.0	2,457.0
Fermentor - Pumps & Processes	360.0	62.0	195.0	67.0	105.0
Grit & Screen - Pump and Processes	120.0	94.0	573.0	607.0	58.0
Heating Bldg - Pumps/Piping/Processes	350.0	260.0	108.0	112.0	0.0
Other - Labs, Server	160.0	260.0	0.0	0.0	0.0
PEP - Pumps	0.0	0.0	0.0	67.0	70.0
Primary Basins - Pumps & Processes 2	125.0	577.0	135.0	181.0	188.0
Sec Clarifiers - Pumps & Processes	0.0	634.0	595.0	56.0	0.0
Thickener - Pumps	0.0	104.0	0.0	191.0	68.0
Utility Building	0.0	437.0	146.0	0.0	0.0
UV - Processes & Electrical	0.0	0.0	0.0	112.0	0.0
Total	1,706.0	2,506.0	2,942.0	1,477.0	2,946.0
FINANCING DETAILS					
SEWAGE COLL & TRTMNT REPL RES	1,706.0	2,506.0	2,942.0	1,477.0	2,946.0
Total	1,706.0	2,506.0	2,942.0	1,477.0	2,946.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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	1580	1600/1200	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	(Reqd for east portion of Rosewood)
HJ Storm Trunk	300	500	2009	(Reqd for wst & east portion of Rosewood)
BE Lakewood San Trunk	800	600	1999/2001	(Reqd for Suburban Ctr West)
DE San Trunk	1,500	300/450	2008	(Kingsmere lift to Lakewood Lift Station)
E Lift Station Stage II	-	-	2004	(reqd for suburban Ctr east)
EJ San Trunk	900	75/450/525	2004/2009	Reqd for suburban Ctr E & east portion of Rosewood nbrhd)
B Trounce Pond	-	-	1996/2000/2001/2003	
EO Boychuk Forcemain	-	-	2014	(Reqd for Rosewood) - Lakewood Lift Station to Moncton
G Hyde Wetlands West	150	1500	2004/2008	(reqd for west portion of Rosewood neighbourhood)
E Lift Station Stage II	-	-	-	(No longer reqd)
KE Storm Trunk	200	1500	2001	
Drainage Master plan	-	-	2001	
Pond M- Taylor Street	-	-	2010	(Reqd for east portion of Rosewood neighbourhood)
Pond N - Briarwood Swale	-	-	2010	(Reqd for east portion of Rosewood neighbourhood)
E Boychuk Storage Tanks	-	-	2018	Required 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	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
E-Boychuk Storage Tanks	0.0	2,350.0	0.0	0.0	0.0
Total	0.0	2,350.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	2,350.0	0.0	0.0	0.0
Total	0.0	2,350.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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

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 2017 budget includes the replacement of recreation, fitness and aquatic equipment at the indoor leisure facilities, the replacement of the Zamboni at Archibald Arena and upgrade of software and timing equipment associated to the score clock at the Shaw Centre.

Operating Impact

2018: \$20,000 increase in the contribution to the Leisure Services Equipment Replacement Reserve to increase the provision for the future replacement of the score clock at the Shaw Centre.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Equipment Purchase	125.0	120.0	120.0	120.0	120.0
Upgrade Software and Timing Equipment at Shaw Score Clock	150.0	0.0	0.0	0.0	0.0
Zambonis	120.0	0.0	125.0	0.0	125.0
Total	395.0	120.0	245.0	120.0	245.0
FINANCING DETAILS					
LEISURE SERVICES EQUIPMENT REPL RES	395.0	120.0	245.0	120.0	245.0
Total	395.0	120.0	245.0	120.0	245.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	20.0	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	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Volt/Var Demand Reduction	0.0	150.0	0.0	0.0	0.0
Total	0.0	150.0	0.0	0.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	150.0	0.0	0.0	0.0
Total	0.0	150.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 70% of the 59,000 meters have been upgraded. The upgrades are planned to be complete by 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 Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Meters - Growth & maintenance	0.0	250.0	250.0	250.0	250.0
New Meters	3,500.0	0.0	0.0	0.0	0.0
Total	3,500.0	250.0	250.0	250.0	250.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	500.0	250.0	250.0	250.0	250.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	3,000.0	0.0	0.0	0.0	0.0
Total	3,500.0	250.0	250.0	250.0	250.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Customer Connections	2,300.0	2,400.0	2,400.0	2,600.0	2,860.0
Total	2,300.0	2,400.0	2,400.0	2,600.0	2,860.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	950.0	1,050.0	1,050.0	1,100.0	1,250.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	500.0	500.0	500.0	600.0	610.0
SL&P CUSTOMER CONTRIBUTION	850.0	850.0	850.0	900.0	1,000.0
Total	2,300.0	2,400.0	2,400.0	2,600.0	2,860.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Caretaking and Maintenance	52.0	6.0	0.0	16.0	44.0
Computer	43.0	53.0	183.0	55.0	0.0
Furnishings and Misc	0.0	0.0	559.0	9.0	233.0
Kitchen	0.0	0.0	67.0	0.0	100.0
Lighting	126.0	0.0	323.0	0.0	111.0
Sound	0.0	0.0	167.0	0.0	56.0
Theatre	70.0	0.0	0.0	0.0	0.0
Total	291.0	59.0	1,299.0	80.0	544.0
FINANCING DETAILS					
TCU PLACE EQUIPMENT RESERVE	291.0	59.0	1,299.0	80.0	544.0
Total	291.0	59.0	1,299.0	80.0	544.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
General Admin	86.0	0.0	0.0	0.0	0.0
Total	86.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
GEN PPD SERVICES-GENERAL	86.0	0.0	0.0	0.0	0.0
Total	86.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

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 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.

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

Land Development

Approved 2017

* 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.

Prior Budget Approvals

\$31,094,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
A - Sewage Pumping Station	60.0	0.0	0.0	0.0	0.0
F-Jasper Ave. Sewage Pump Stn	184.0	0.0	0.0	0.0	0.0
Total	244.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
WASTEWATER LIFT STATION RES	244.0	0.0	0.0	0.0	0.0
Total	244.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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. Provision is also made for unanticipated requests by City Council, Saskatoon Police Service or special interest groups for lighting upgrades related to public safety concerns requiring immediate attention.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
LED Conversion	100.0	100.0	200.0	200.0	300.0
Lighting Upgrade	60.0	60.0	65.0	65.0	65.0
Total	160.0	160.0	265.0	265.0	365.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	70.0	70.0	85.0	85.0	95.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	90.0	90.0	180.0	180.0	270.0
Total	160.0	160.0	265.0	265.0	365.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Street Medians	0.0	200.0	200.0	200.0	200.0
Total	0.0	200.0	200.0	200.0	200.0
FINANCING DETAILS					
UNFUNDED TRANSPORTATION INFRA RES	0.0	200.0	200.0	200.0	200.0
Total	0.0	200.0	200.0	200.0	200.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
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
Total	1,785.0	1,785.0	1,785.0	1,785.0	1,785.0
FINANCING DETAILS					
INFRA RES-TRANSPORTATION	1,785.0	1,785.0	1,785.0	1,785.0	1,785.0
Total	1,785.0	1,785.0	1,785.0	1,785.0	1,785.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

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

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).

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Equipment Purchase	200.0	200.0	200.0	200.0	200.0
Total	200.0	200.0	200.0	200.0	200.0
FINANCING DETAILS					
PUBLIC LIBRARY EQUIP REPL RES	200.0	200.0	200.0	200.0	200.0
Total	200.0	200.0	200.0	200.0	200.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	0.0	0.0	500.0	0.0	0.0
Design	50.0	50.0	0.0	0.0	0.0
Infrastructure Replacement	435.0	439.0	400.0	420.0	420.0
Total	485.0	489.0	900.0	420.0	420.0
FINANCING DETAILS					
TRUNKED RADIO SYS INFRAS REPL RES	485.0	489.0	900.0	420.0	420.0
Total	485.0	489.0	900.0	420.0	420.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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

Project Description

This project involves the upgrade, enhancement and repairs of parks throughout the City. Landscape upgrades and enhancements include:

- additional plantings;
- irrigation system replacement;
- installation of subsurface drainage systems;
- lighting;
- site furniture;
- play equipment.

General Comments

Funding identified in 2017 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 2017:

- Rochdale: Irrigation, drainage, and pathway upgrades
- St. Andrews: Drainage and catch basin upgrades
- Lakeview: Pathway upgrades

In addition to the park upgrades, Park infrastructure condition assessments will continue to be done to assist in determining future priorities for park upgrades, enhancements and repairs.

Future budget allocations will be determined in accordance with the Parks Asset Management Plan report recommendations expected in late 2016.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Lakeview Park Development	175.0	0.0	0.0	0.0	0.0
Park Assessments	50.0	0.0	0.0	0.0	0.0
Rochdale Park Development	660.0	0.0	0.0	0.0	0.0
St. Andrews Park Development	60.0	0.0	0.0	0.0	0.0
Total	945.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
INFRASTRUCTURE RESERVE - PARKS	945.0	0.0	0.0	0.0	0.0
Total	945.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

0948 TU-NEW SIDEWALKS AND PATHWAYS

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

Project Description

This project involves the design and construction of new sidewalks or pathways adjacent to existing arterial roadways, collector roads or local streets.

General Comments

Currently, there are numerous outstanding sidewalk/pathway locations requested by residents, some dating back to 2007, at a total combined length of over 8,000 metres and an estimated cost exceeding \$3.5 million. Priority for construction is given to locations adjacent to schools and parks, locations with no sidewalks on either side, and locations identified by the Neighbourhood Traffic Review and Corridor Study processes.

2017 Budget will focus on sidewalk construction to improve access to transit corridors.

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

Special Note

The Other funding source identified in this project is the City's matching contribution of \$650,000 for the Public Transit Infrastructure Fund. This funding will be from a reallocation of utility dividend from Building Canada funded utility projects.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Construction	1,300.0	350.0	350.0	350.0	350.0
Total	1,300.0	350.0	350.0	350.0	350.0
FINANCING DETAILS					
OTHER	650.0	0.0	0.0	0.0	0.0
PTIF - FEDERAL	650.0	0.0	0.0	0.0	0.0
UNFUNDED ACTIVE TRANSPORTATION RESERVE	0.0	350.0	350.0	350.0	350.0
Total	1,300.0	350.0	350.0	350.0	350.0
Incremental Operating Impacts (000's)					
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Construction	260.0	400.0	400.0	400.0	400.0
Total	260.0	400.0	400.0	400.0	400.0
FINANCING DETAILS					
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
Total	260.0	400.0	400.0	400.0	400.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 midblock. This project will improve the lighting level for the entire block. The light now at midblock will be relocated and a new light installed. The two midblock 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Neighbourhood Lighting Upgrade	0.0	200.0	0.0	200.0	0.0
Total	0.0	200.0	0.0	200.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	160.0	0.0	160.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	0.0	40.0	0.0	40.0	0.0
Total	0.0	200.0	0.0	200.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Scada System Upgrade	150.0	150.0	150.0	750.0	0.0
Total	150.0	150.0	150.0	750.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	90.0	90.0	90.0	250.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	60.0	60.0	60.0	500.0	0.0
Total	150.0	150.0	150.0	750.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1019 SL&P - SUBSTATION UPGRADE - W. J. BUNN

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

Project Description

This project provides for the replacement of the existing outdoor shelter clad switchgear and additional transformation capacity at the W.J. Bunn Substation, near the Saskatoon Forestry Farm Park and Zoo.

General Comments

Development within the Saskatoon Light & Power service area for W.J. Bunn Substation has been forecast to exceed the capacity of the existing substation. The existing shelter clad switchgear was installed in 1983 and is nearing the end of its useful life. Additional feeders may be needed in addition to refurbishing/replacing the remaining original equipment. Load growth is being monitored with a detailed design expected to begin in 2018.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
WJ Bunn Switchgear	0.0	50.0	500.0	500.0	0.0
WJ Bunn Transformers	0.0	0.0	0.0	0.0	2,000.0
Total	0.0	50.0	500.0	500.0	2,000.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	50.0	250.0	250.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	0.0	0.0	250.0	250.0	2,000.0
Total	0.0	50.0	500.0	500.0	2,000.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	200.0	400.0	400.0	400.0	400.0
Total	200.0	400.0	400.0	400.0	400.0
FINANCING DETAILS					
TRANSP INFRAS EXPANSION	200.0	400.0	400.0	400.0	400.0
Total	200.0	400.0	400.0	400.0	400.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Construction	0.0	50.0	0.0	50.0	0.0
Total	0.0	50.0	0.0	50.0	0.0
FINANCING DETAILS					
GENERAL PPD SERV-ENGINEERING	0.0	16.0	0.0	16.0	0.0
INFRA RES-WTR & SAN SWR	0.0	34.0	0.0	34.0	0.0
Total	0.0	50.0	0.0	50.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Acadia Reservoir Structural Repair	0.0	0.0	433.0	0.0	0.0
Chemical Feeding System	60.0	0.0	81.0	0.0	0.0
Electrical/Mechanical Replacements	0.0	0.0	0.0	675.0	0.0
Filter Plant Refurbishment	1,950.0	0.0	0.0	619.0	1,182.0
Low Lift Pumping	0.0	0.0	0.0	2,098.0	2,182.0
Plant HVAC	1,075.0	1,144.0	97.0	0.0	0.0
Screen Chamber	0.0	0.0	54.0	0.0	0.0
West Basin	0.0	260.0	0.0	0.0	0.0
Total	3,085.0	1,404.0	665.0	3,392.0	3,364.0
FINANCING DETAILS					
WATER SUPPLY REPL RES	3,085.0	1,404.0	665.0	3,392.0	3,364.0
Total	3,085.0	1,404.0	665.0	3,392.0	3,364.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

An AMI system is used 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 by time intervals throughout the day. The information is then transmitted wirelessly over a secure network to a central database, which allows for remote meter reading. Greenhouse gas emissions and labour costs tied to manual meter reading would also be reduced. It is estimated that 35 tonnes of CO₂e tied to vehicle use would be reduced each year, and reductions from decreased water use are estimated at 3,300 tonnes CO₂e the equivalent of removing over 685 vehicles from Saskatoon roads each year.

General Comments

Investigation has confirmed an AMI system offers many benefits for our customers and the City. Customers would receive monthly bills based on the actual amount of water they use. This would eliminate reliance on estimated usage between meter readings, and help residents manage their water use and detect unusual consumption patterns which could impact their bill. An AMI system means the City will benefit from 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 will have their meters read electronically and will begin receiving monthly bills based on actual, not estimated, usage by the end of 2015. As the deployment of smart meters continues, the balance of customers will be converted to the AMI system.

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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Automatic Meter Reading Conversion	2,600.0	2,704.0	2,812.0	0.0	0.0
Total	2,600.0	2,704.0	2,812.0	0.0	0.0
FINANCING DETAILS					
BORROWING	315.0	0.0	2,531.0	0.0	0.0
OPERATING BUDGET DOWNPAYMENT	35.0	0.0	281.0	0.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	2,250.0	2,704.0	0.0	0.0	0.0
Total	2,600.0	2,704.0	2,812.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 60-75mm 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

\$4,000 in 2020 (average annual lifecycle cost of 75 trees at \$53.50 per tree)

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	50.0	50.0	50.0	50.0	50.0
Total	50.0	50.0	50.0	50.0	50.0
FINANCING DETAILS					
INDUSTRIAL PARK DEVELOPMENT RES	50.0	50.0	50.0	50.0	50.0
Total	50.0	50.0	50.0	50.0	50.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	4.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1083 CP-CORPORATE NETWORK EQUIPMENT REPL

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

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Electronic Equipment Replacement	0.0	450.0	500.0	550.0	550.0
Total	0.0	450.0	500.0	550.0	550.0
FINANCING DETAILS					
COMPUTER EQUIPMENT REPL RES	0.0	450.0	500.0	550.0	550.0
Total	0.0	450.0	500.0	550.0	550.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 - TCU Place, Mendel Art Gallery & Conservatory, SaskTel Centre, 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.

Special Note

The Canada 150 Community Infrastructure Program combined with the CBCM will provide \$620,000 (\$50,000 in 2016) in a joint initiative to replace the roof at the White Buffalo Youth Lodge. The replacement of the roof ensures the facility remains a viable multipurpose community facility for community programming and to be able to host local and national events.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Asbestos Assessment and Abatement	500.0	425.0	75.0	75.0	75.0
Boards and Agencies	1,780.0	1,818.0	2,704.0	2,585.0	2,278.0
Maintenance Support	250.0	235.0	235.0	235.0	255.0
Offices	679.0	1,124.0	939.0	1,120.0	561.0
Pools	997.0	2,234.0	2,618.0	1,830.0	1,988.0
Program Facilities	545.0	1,227.0	1,451.0	1,682.0	903.0
Recreation Facilities	1,823.0	1,832.0	1,832.0	1,941.0	893.0
Shaw Centre and Parks with Aquatic Features	627.0	561.0	494.0	488.0	1,090.0
WBYL - Roof Replacement	570.0	0.0	0.0	0.0	0.0
Total	7,771.0	9,456.0	10,348.0	9,956.0	8,043.0
FINANCING DETAILS					
CANADA 150 INFRA PROGRAM	310.0	0.0	0.0	0.0	0.0
CIVIC BLDGS COMPR MTNCE	7,461.0	9,456.0	10,348.0	9,956.0	8,043.0
Total	7,771.0	9,456.0	10,348.0	9,956.0	8,043.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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.

Operating Impact

\$85,000 in 2018

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Street Ltg - Neighbourhood Development	1,500.0	1,500.0	1,500.0	1,500.0	1,500.0
Total	1,500.0	1,500.0	1,500.0	1,500.0	1,500.0
FINANCING DETAILS					
COST RECOVERY PPD LAND DEVELOPMENT	128.0	1,372.0	1,372.0	1,372.0	1,372.0
ELECTRICAL DISTRIBUTION EXTENSION RES	1,372.0	128.0	128.0	128.0	128.0
Total	1,500.0	1,500.0	1,500.0	1,500.0	1,500.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	85.0	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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Engine Overhaul	300.0	300.0	300.0	300.0	300.0
Total	300.0	300.0	300.0	300.0	300.0
FINANCING DETAILS					
TRANSIT CAPITAL PROJECTS RESERVE	300.0	210.0	210.0	210.0	210.0
US - CAPITAL RESERVE	0.0	90.0	90.0	90.0	90.0
Total	300.0	300.0	300.0	300.0	300.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

Project Status	Open	Year Identified	2014
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 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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Filter Plant Upgrade	0.0	832.0	7,788.0	0.0	0.0
Total	0.0	832.0	7,788.0	0.0	0.0
FINANCING DETAILS					
BORROWING	0.0	0.0	6,559.0	0.0	0.0
OPERATING BUDGET DOWNPAYMENT	0.0	0.0	729.0	0.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	832.0	500.0	0.0	0.0
Total	0.0	832.0	7,788.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017 includes general concrete repair and pump and valve replacement at the Spadina lift station. This work follows the completion of the 2016 full flow bypass project at the Spadina site. Ongoing mechanical replacements are scheduled for other locations in the lift station network.

Special Note

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

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Lift Station Upgrades	3,064.0	808.0	1,105.0	1,687.0	1,755.0
Total	3,064.0	808.0	1,105.0	1,687.0	1,755.0
FINANCING DETAILS					
BORROWING	0.0	0.0	0.0	0.0	254.0
OPERATING BUDGET DOWNPAYMENT	0.0	0.0	0.0	0.0	28.0
WASTEWATER TRTMNT CAP RES	3,064.0	808.0	1,105.0	1,687.0	1,473.0
Total	3,064.0	808.0	1,105.0	1,687.0	1,755.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1251 SL&P - SUBSTATION - 138 kV SWITCHING

Project Status	Open	Year Identified	2015
Project Type	ELECTRICAL AND STREET LIGHTING	Manager	Gavrilo Saric
Asset Type	Electrical Substations	Est. End Date	-

Project Description

This project is for the installation and renovation of high voltage switches and breakers for the 138 kV bulk power system.

General Comments

The existing configuration for the 138 kV bulk power system relies heavily on SaskPower's protection system to clear system faults on the 138 kV transmission circuits. As such, for a transmission power disruption (most commonly lightning strikes), the entire transmission line experiences the outage. By adding breakers at strategic points, the number of customers affected by a transmission outage event will be limited to a smaller area and power can be restored quicker. Renovation of existing switches and breakers may be required to accommodate these changes and to ensure reliable operation of the devices.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Substation 138kV Switches	200.0	50.0	50.0	50.0	50.0
Total	200.0	50.0	50.0	50.0	50.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	100.0	25.0	25.0	25.0	25.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	100.0	25.0	25.0	25.0	25.0
Total	200.0	50.0	50.0	50.0	50.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
DISTRIBUTION- EQUIPMENT UPGRADE	200.0	300.0	200.0	100.0	0.0
Total	200.0	300.0	200.0	100.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	80.0	180.0	80.0	100.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	120.0	120.0	120.0	0.0	0.0
Total	200.0	300.0	200.0	100.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
S/S - Accessories/Security/CCTV	0.0	120.0	120.0	120.0	120.0
Total	0.0	120.0	120.0	120.0	120.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	70.0	70.0	70.0	70.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	0.0	50.0	50.0	50.0	50.0
Total	0.0	120.0	120.0	120.0	120.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1268 SL&P - NETWORK VAULTS

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

Project Description

New vault projects consist of the installation of new underground electrical network vaults complete with transformers, protectors, moulded-vacuum interrupters, control (RTU) cabinets, and all ancillary equipment. A quantity of ducts and manholes may also be constructed depending on the area and customer requirements. All new vault projects are confined to the boundaries of the network, and each project will be confined to a street that is delineated by two intersecting streets.

General Comments

Underground electrical network vault construction is unique to the downtown area and is a highly reliable distribution system. The construction of new vaults depends upon the addition of new customers to the network, or the transferring of existing customers from the overhead electrical system to the underground network. Planning studies indicate that a number of new vaults may be required within the next 10 years to meet the forecasted customer electrical loads downtown.

This project will be reviewed periodically and assessed based on customer growth in the downtown area.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Vault 21	0.0	0.0	1,250.0	1,250.0	0.0
Total	0.0	0.0	1,250.0	1,250.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	0.0	1,250.0	950.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	0.0	0.0	0.0	300.0	0.0
Total	0.0	0.0	1,250.0	1,250.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1269 SL&P - NORTH DOWNTOWN DEVELOPMENT

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Brendan Lemke
Asset Type		Est. End Date	-

Project Description

The project provides the Electrical Distribution System for electrical service to the area known as the North Downtown. The area which this project will cover may extend beyond the area being consider by the City's Urban Planning Groups. The boundaries under Urban Planning are shown in the North Downtown Master Plan.

This project will put in place the electrical distribution infrastructure necessary to provide service to the North Downtown including that area which would be a natural extension of the system supply. This will include all duct lines, structures, cables and facilities for the primary distribution and the secondary mains. The actual electrical service to a property will be charged to another project.

General Comments

Electrical distribution new construction and upgrades will include all the area described in the North Downtown Master Plan and the natural extension of the electrical system into adjoining property. Consequently, the area covered by this project has an approximate boundary of 23rd Street on the South side, Idylwyld Drive on the West, 33rd Street on the North side, and 3rd Avenue on the East side.

Charges to this project will include all work required inside the Master Plan boundary and the natural extension into surrounding neighbourhoods and commercial property. Also, new and upgraded facilities up to but not including the supply substation(s) which provide the electrical service to the North Downtown are part of this project.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Elec Lines - North Downtown Development	0.0	0.0	0.0	720.0	720.0
Total	0.0	0.0	0.0	720.0	720.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	0.0	0.0	400.0	400.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	0.0	0.0	0.0	100.0	100.0
SL&P CUSTOMER CONTRIBUTION	0.0	0.0	0.0	220.0	220.0
Total	0.0	0.0	0.0	720.0	720.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Bldgs/Grnds - Operation Centre	0.0	250.0	250.0	250.0	400.0
Bldgs/Grnds - Training Service Centre	0.0	125.0	0.0	0.0	0.0
Total	0.0	375.0	250.0	250.0	400.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	100.0	50.0	50.0	75.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	0.0	275.0	200.0	200.0	325.0
Total	0.0	375.0	250.0	250.0	400.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Investigate New Power Supply	100.0	200.0	200.0	200.0	200.0
LFG Air-Fuel Ratio Controller	120.0	0.0	0.0	0.0	0.0
Total	220.0	200.0	200.0	200.0	200.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	160.0	200.0	200.0	200.0	200.0
LANDFILL REPLACEMENT RESERVE	60.0	0.0	0.0	0.0	0.0
Total	220.0	200.0	200.0	200.0	200.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
St. Lights - Steel Pole - Traffic Cause	620.0	620.0	620.0	630.0	630.0
St. Lights - Steel Pole Mitigation	250.0	250.0	150.0	150.0	150.0
Total	870.0	870.0	770.0	780.0	780.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	105.0	105.0	105.0	110.0	110.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	560.0	560.0	460.0	460.0	460.0
SL&P CUSTOMER CONTRIBUTION	205.0	205.0	205.0	210.0	210.0
Total	870.0	870.0	770.0	780.0	780.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
14.4Kv Queen St. River Crossing	180.0	0.0	0.0	0.0	0.0
Total	180.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	50.0	0.0	0.0	0.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	50.0	0.0	0.0	0.0	0.0
SL&P CUSTOMER CONTRIBUTION	80.0	0.0	0.0	0.0	0.0
Total	180.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Electrical Systems Planning Studies	0.0	205.0	0.0	205.0	0.0
Total	0.0	205.0	0.0	205.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	75.0	0.0	75.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	0.0	130.0	0.0	130.0	0.0
Total	0.0	205.0	0.0	205.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
NETWORK - MAJOR ASSETS	200.0	200.0	0.0	400.0	0.0
Total	200.0	200.0	0.0	400.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	25.0	25.0	0.0	50.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	175.0	175.0	0.0	350.0	0.0
Total	200.0	200.0	0.0	400.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
NETWORK - CIVIL INFRASTRUCTURE UPGRADES	300.0	300.0	300.0	300.0	300.0
Total	300.0	300.0	300.0	300.0	300.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	50.0	50.0	50.0	50.0	50.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	250.0	250.0	250.0	250.0	250.0
Total	300.0	300.0	300.0	300.0	300.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
NETWORK - PRIMARY LINES	200.0	600.0	500.0	0.0	200.0
Total	200.0	600.0	500.0	0.0	200.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	100.0	300.0	400.0	0.0	100.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	100.0	300.0	100.0	0.0	100.0
Total	200.0	600.0	500.0	0.0	200.0
Incremental Operating Impacts (000's)					
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
NETWORK - SECONDARY LINES	60.0	60.0	60.0	0.0	0.0
Total	60.0	60.0	60.0	0.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	40.0	40.0	40.0	0.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	20.0	20.0	20.0	0.0	0.0
Total	60.0	60.0	60.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
NETWORK- PROTECTION & CONTROL	260.0	260.0	260.0	260.0	260.0
Total	260.0	260.0	260.0	260.0	260.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	180.0	180.0	180.0	180.0	180.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	80.0	80.0	80.0	80.0	80.0
Total	260.0	260.0	260.0	260.0	260.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Elec - S/S - Station RTU Upgrade Comm	250.0	500.0	500.0	0.0	0.0
Total	250.0	500.0	500.0	0.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	100.0	200.0	200.0	0.0	0.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	150.0	300.0	300.0	0.0	0.0
Total	250.0	500.0	500.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Ave C - Fdr #2 - Mitigation	150.0	0.0	0.0	0.0	0.0
Total	150.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION REPLACEMENT RES	150.0	0.0	0.0	0.0	0.0
Total	150.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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	Mehmooosh 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.

A component of this project provides for switches at the junction points between feeders and load transfer points. The purpose of these switches is to provide faster transfer capability, reducing restoration time following a power outage.

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 Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Feeder Upgrades Construction	1,800.0	1,800.0	1,800.0	1,800.0	1,800.0
Telecom Upgrades	75.0	75.0	75.0	75.0	75.0
Total	1,875.0	1,875.0	1,875.0	1,875.0	1,875.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	475.0	375.0	375.0	375.0	375.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	1,350.0	1,450.0	1,450.0	1,450.0	1,450.0
SL&P CUSTOMER CONTRIBUTION	50.0	50.0	50.0	50.0	50.0
Total	1,875.0	1,875.0	1,875.0	1,875.0	1,875.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Garfield 4.16/14.4 Kv conversion	1,200.0	1,400.0	950.0	1,000.0	1,000.0
Total	1,200.0	1,400.0	950.0	1,000.0	1,000.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	400.0	600.0	250.0	300.0	300.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	800.0	800.0	700.0	700.0	700.0
Total	1,200.0	1,400.0	950.0	1,000.0	1,000.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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. 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 Assets Life Cycle Management (DALCM) and Life Cycle Management of Substations Equipment and Apparatus (LCMSEA). 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
R & D Dist & Trans	90.0	90.0	90.0	90.0	90.0
R & D Station & Apparatus	75.0	65.0	55.0	55.0	55.0
Total	165.0	155.0	145.0	145.0	145.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	165.0	155.0	145.0	145.0	145.0
Total	165.0	155.0	145.0	145.0	145.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1315 SL&P - 138 KV TRANSMISSION LINE UPGRADE

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

Project Description

Saskatoon Light & Power is currently supplied by five transmission lines at 138kV. These transmission lines are the conduits for bulk power supply to the nine major substations. This project provides for the expansion of the transmission capacity and operational flexibility required to continue to support load growth and system operation requirements for Saskatoon Light & Power.

Planned project components include the addition of a new transmission line from the North side of the franchise area and a new transmission connection centrally between Avenue C Substation and North Central Substation. There are also long term requirements for upgrades to the existing transmission lines to increase capacity.

General Comments

The objective for Saskatoon Light & Power is to have transmission backup capacity from various sources. In particular, the north supply is needed for risk mitigation since all the other transmission lines originate from a single source at the SaskPower Queen Elizabeth Switching Station.

SaskPower has long range plans for multiple transmission lines around Saskatoon, including an additional switching station near Martensville. This provides Saskatoon Light & Power an opportunity for another 138kV supply point in the northwest sector.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
138kV Line - North Supply	1,320.0	2,150.0	2,150.0	2,150.0	2,150.0
Total	1,320.0	2,150.0	2,150.0	2,150.0	2,150.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	470.0	1,300.0	1,300.0	1,300.0	1,300.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	850.0	850.0	850.0	850.0	850.0
Total	1,320.0	2,150.0	2,150.0	2,150.0	2,150.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
138 Kv Insulator Mitigation	50.0	0.0	0.0	0.0	100.0
138 Kv Transmission Foundation	100.0	120.0	120.0	0.0	0.0
Total	150.0	120.0	120.0	0.0	100.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	10.0	0.0	0.0	0.0	20.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	140.0	120.0	120.0	0.0	80.0
Total	150.0	120.0	120.0	0.0	100.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 head end equipment and intermediate equipment.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Communication Equipment	50.0	0.0	50.0	0.0	50.0
Communication Network	200.0	200.0	200.0	200.0	200.0
Total	250.0	200.0	250.0	200.0	250.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	250.0	200.0	250.0	200.0	250.0
Total	250.0	200.0	250.0	200.0	250.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Substation Relay Upgrades	500.0	500.0	500.0	500.0	500.0
Total	500.0	500.0	500.0	500.0	500.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	100.0	100.0	100.0	100.0	100.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	400.0	400.0	400.0	400.0	400.0
Total	500.0	500.0	500.0	500.0	500.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Bulk Power S/S Mitigation	250.0	150.0	150.0	150.0	150.0
Medium Voltage S/S Mitigation	150.0	150.0	150.0	150.0	150.0
Total	400.0	300.0	300.0	300.0	300.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	150.0	50.0	50.0	50.0	50.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	250.0	250.0	250.0	250.0	250.0
Total	400.0	300.0	300.0	300.0	300.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1333 SL&P - SUBSTATION UPGRADE - AVE. C

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

Project Description

This substation is the primary service for electrical power to the Central Business District, Nutana, Riversdale, and portions of other adjacent neighbourhoods. It is proposed to do a major upgrade of this substation which will include infrastructure, building and equipment, and major electrical assets. Consideration will be made for increased capacity to meet expected load growth.

General Comments

The Avenue C Substation was originally constructed in 1980. A number of incremental upgrades have been completed at this substation over its lifetime. Condition is being monitored to determine the timing for major upgrades, as well as changes to service requirements and operating conditions. Timelines for this project may need to be accelerated depending on property development in the service area.

This project is to be coordinated with the following:

- Capital Project 1315 SL&P - 138kV Transmission Line Upgrade;
- Capital Project 1352 SL&P - Life Cycle Management;
- Capital Project 1304 SL&P - Elec S/S - North Central; and
- Other Capital Projects dealing the electrical distribution from Avenue C Substation.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Elec Substn - Ave C - 14.4 kV Dist	0.0	500.0	0.0	0.0	0.0
Total	0.0	500.0	0.0	0.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	0.0	500.0	0.0	0.0	0.0
Total	0.0	500.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1350 SL&P - SUBSTATION BUILDING & GROUND RENO

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

Project Description

This project involves renovation of electrical substation infrastructure not directly associated with the electrical distribution. This includes the building foundation, structures, security and access system, fencing, etc.

General Comments

There is significant infrastructure associated with substations that is physically different than the electrical utility equipment. This project will require periodic inspections by a qualified consultant to determine corrective actions for each substation. Major restoration work will be identified through the inspection and remedial work scheduled in subsequent years. Minor ongoing substation infrastructure maintenance will be charged to the operating budget.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Substation Assessment	0.0	50.0	0.0	0.0	0.0
Substation Infrastructure	0.0	100.0	100.0	100.0	0.0
Total	0.0	150.0	100.0	100.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION REPLACEMENT RES	0.0	150.0	100.0	100.0	0.0
Total	0.0	150.0	100.0	100.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Mobile Equipment	0.0	300.0	0.0	300.0	0.0
Test Equipment	0.0	135.0	135.0	135.0	185.0
Vehicles	112.0	200.0	50.0	200.0	50.0
Total	112.0	635.0	185.0	635.0	235.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	112.0	360.0	185.0	360.0	235.0
ELECTRICAL DISTRIBUTION REPLACEMENT RES	0.0	275.0	0.0	275.0	0.0
Total	112.0	635.0	185.0	635.0	235.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

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

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.

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

Gator- 4 wheel Drive - \$16,000

Groomer/Landscaper - \$6,000

Tractor under 40 HP - \$28,000

Tractor 40-50 HP - \$50,000

Front End Loader Attachment - \$15,000

2x 6' Mower (4x4) - \$40,000

14' Out-front Mower Attachment - \$18,000

Sweeper (Mounted) - \$12,000

Tractor 50-60 HP - \$60,000

Turf Sweeper - \$55,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Parks Equipment Purchase	300.0	100.0	250.0	100.0	100.0
Snow & Ice Equipment Acquisition	515.0	0.0	0.0	0.0	0.0
Total	815.0	100.0	250.0	100.0	100.0
FINANCING DETAILS					
PARKS GROUNDS MTCE EQUIP ACQ RES	300.0	100.0	250.0	100.0	100.0
SNOW & ICE MGT EQUIP ACQUISITION	515.0	0.0	0.0	0.0	0.0
Total	815.0	100.0	250.0	100.0	100.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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

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:

1 - Minivan - \$30,000
 4 - 1/4 Ton Truck - \$180,000
 6 - 1/2 Ton Truck - \$218,000
 1 - 3/4 Ton Truck - \$40,000
 11 - 1 Ton Truck - \$730,000
 3 - SUV's - \$90,000
 2 - Heavy Cube Van - \$400,000
 3 - Garbage Trucks - \$1,020,000
 3 - Bucket Truck - \$900,000
 3 - Wheel Loader - \$1,000,000
 3 - Motor Grader - \$260,000
 1 - Wheeled Excavator - \$400,000
 1 - Packer - \$150,000
 3 - Trackless Backhoe - \$460,000
 2 - Sweeper - \$550,000
 23 - Police Units - \$700,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Equipment Purchase	7,128.0	5,692.0	5,700.0	5,900.0	6,000.0
Total	7,128.0	5,692.0	5,700.0	5,900.0	6,000.0
FINANCING DETAILS					
VEHICLE EQUIPMENT REPLACE RESERVE	7,128.0	5,692.0	5,700.0	5,900.0	6,000.0
Total	7,128.0	5,692.0	5,700.0	5,900.0	6,000.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 to making the necessary changes to the 1st (main) floor of City Hall and applicable technology requirements to accommodate the vision of the new Service Saskatoon customer service area. Each Capital Project is integral to the success of establishing the 'one-stop' customer experience at the service level kiosks applying the new Service Saskatoon model of enhanced customer service.

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 2017 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Project Implementation	200.0	200.0	200.0	200.0	200.0
Total	200.0	200.0	200.0	200.0	200.0
FINANCING DETAILS					
CORPORATE CAPITAL RESERVE	200.0	200.0	200.0	200.0	200.0
Total	200.0	200.0	200.0	200.0	200.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1400 LAND DEV'T-HAMPTON VILLAGE 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 is to be used for advancing the landscaping of the linear park on the West side of the neighbourhood North of McKague Crescent, installation of a black aluminum fence along the park, landscaping the dry pond to the East of the linear park and between McClocklin Road and Hampton Circle, landscaping the buffer on the South side of McClocklin Road West of Junor Avenue, completion of the village square, seeding to grass the vacant school and community centre site, maintenance of the basement excavation stockpile site, relocation of dirt piles and topsoil, park storm sewer and additional utility charges.

Prior Budget Approvals

\$31,737,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
2009 - E3 - City (Hargreaves)	110.0	0.0	0.0	0.0	0.0
Total	110.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
GENERAL PPD SERV-ENGINEERING	110.0	0.0	0.0	0.0	0.0
Total	110.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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
2017	-	243
2018	-	200

Prior Budget Approvals

\$27,808,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
2010 - C1 - Priv (East of Rosewood Gate N.)	805.0	400.0	0.0	0.0	0.0
2016 - F1 - Priv(Rosewood Commercial)	58.0	8.0	0.0	0.0	0.0
2017 - E1 Private (SE of Olson Lane East, S of Rosewood Blvd East)	456.0	376.0	0.0	0.0	0.0
Total	1,319.0	784.0	0.0	0.0	0.0
FINANCING DETAILS					
GENERAL PPD SERV-ELEC-CITY	420.0	260.0	0.0	0.0	0.0
GENERAL PPD SERV-ENGINEERING	233.0	74.0	0.0	0.0	0.0
GENERAL PREPAID SVCES-ELEC-SPC	666.0	450.0	0.0	0.0	0.0
Total	1,319.0	784.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 and other enhanced services.

Year	City Lots	Private
2016	19.20ac	6.25ac

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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
2012 - D1 City (East of McOrmond)	16.0	0.0	0.0	0.0	0.0
Earthfill & Enhanced Features	480.0	0.0	0.0	0.0	0.0
Total	496.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
PRR-LAND DEVELOPMENT	496.0	0.0	0.0	0.0	0.0
Total	496.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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	-	-
2019	110	-

Prior Budget Approvals

\$62,757,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
2013 - B1 - Private (South of new 33rd)	18.0	0.0	0.0	0.0	0.0
2013 - C2 - City (McArthur, Nightingale)	377.0	0.0	0.0	0.0	0.0
2014 - A3 - City (Antonini, Kens Blvd, Nightingale)	56.0	4,128.0	0.0	0.0	0.0
Earth Fill & Enhanced Features	61.0	0.0	0.0	0.0	0.0
Total	512.0	4,128.0	0.0	0.0	0.0
FINANCING DETAILS					
GENERAL PPD SERV-ELEC-CITY	(47.0)	130.0	0.0	0.0	0.0
GENERAL PPD SERV-ENGINEERING	0.0	3,770.0	0.0	0.0	0.0
GENERAL PREPAID SVCES-ELEC-SPC	65.0	228.0	0.0	0.0	0.0
PRR-LAND DEVELOPMENT	494.0	0.0	0.0	0.0	0.0
Total	512.0	4,128.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 privately owned land in the Airport Industrial Business Park area.

General Comments

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

Prior Budget Approvals

\$301,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
2016 - B1 - City (South of Claypool Dr)	0.0	1,204.0	0.0	0.0	0.0
Total	0.0	1,204.0	0.0	0.0	0.0
FINANCING DETAILS					
GENERAL PPD SERV-ENGINEERING	0.0	1,204.0	0.0	0.0	0.0
Total	0.0	1,204.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Functional Design	0.0	500.0	500.0	6,900.0	100.0
Total	0.0	500.0	500.0	6,900.0	100.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	500.0	500.0	6,900.0	100.0
Total	0.0	500.0	500.0	6,900.0	100.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2011
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 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.

Year	City Lots	Private Lots
2016	-	-
2017	-	100 and 2.34ac

Prior Budget Approvals

\$30,796,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
2015 - B1 - Priv (N of Main Entrance)	383.0	0.0	0.0	0.0	0.0
Earthfill and Enhanced Services	40.0	0.0	0.0	0.0	0.0
Total	423.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
GENERAL PPD SERV-ELEC-CITY	130.0	0.0	0.0	0.0	0.0
GENERAL PPD SERV-ENGINEERING	28.0	0.0	0.0	0.0	0.0
GENERAL PREPAID SVCES-ELEC-SPC	225.0	0.0	0.0	0.0	0.0
PRR-LAND DEVELOPMENT	40.0	0.0	0.0	0.0	0.0
Total	423.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 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	
2016	371	West of McOrmond
2017	11	Parcels Adjacent to McOrmond
2018	254	Lots and 6 parcels East of McOrmond

Prior Budget Approvals

\$55,811,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
2014 - B1 - City	2,321.0	10,205.0	0.0	0.0	0.0
2014 - B2 - City	0.0	2,783.0	0.0	0.0	0.0
2015 - D1 - City	1,514.0	0.0	0.0	0.0	0.0
2015 - D2 - City	0.0	0.0	4,844.0	0.0	0.0
Earthfill and Enhanced Services	590.0	0.0	0.0	0.0	0.0
Total	4,425.0	12,988.0	4,844.0	0.0	0.0
FINANCING DETAILS					
GENERAL PPD SERV-ELEC-CITY	110.0	509.0	0.0	0.0	0.0
GENERAL PPD SERV-ENGINEERING	3,397.0	11,727.0	4,421.0	0.0	0.0
GENERAL PREPAID SVCES-ELEC-SPC	0.0	137.0	423.0	0.0	0.0
PRR-LAND DEVELOPMENT	918.0	615.0	0.0	0.0	0.0
Total	4,425.0	12,988.0	4,844.0	0.0	0.0
Incremental Operating Impacts (000's)					
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	-	-	2004/2006/2007	(Reqd for residential phase)
C Stormwater Storage Basin II	-	-	2002/2004	(Reqd for residential phase)
D Stormwater Storage Basin	-	-	2005	(Reqd for residential phase II)
D Lift Station	-	-	2018	(Reqd for Industrial)
E Stormwater Basin	-	-	2012	(Reqd for residential phase)
E Lift Station II (Reqd for residential phase)	3,650	350	2004/2006	
DE San Trunk	1,500	300/450	2008	(Kingsmere lift to Lakewood Lift Station)
E Lift Station Stage II	-	-	2004	(Reqd for suburban Ctr east)
EF Forcemain	4,500	300	2018	(Reqd for Industrial)
FG Sanitary Trunk	790	675	2015	
FF	340	675	2020	
H Dundonald Pond	-	-	2004/2005	(Reqd for residential phase)
AB Sanitary Trunk	110	600	2004/2007	(Reqd for residential phase)
CD Storm Trunk	900	1050	2004/2005	(Reqd for residential phase)
EI Storm Trunk	500	525	2012	(Reqd for residential phase)
Abandon Lift Station	-	-	2005	
F- Stormwater Basin	-	-	2018	(Reqd for Industrial)
FG- Storm Trunk Outlet	1,500	900	2018	(St. Piping Reqd 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.

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

Prior Budget Approvals

\$11,663,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
FG - Stm Trunk - Industrial (Pond to Circle)	0.0	2,347.0	0.0	0.0	0.0
F'G/FF' -Sanitary Trunk (NS) Hampton to Blairmore Lift	0.0	0.0	0.0	728.0	0.0
Force Main EF-Hampton-58th St-Industrial	0.0	3,200.0	0.0	0.0	0.0
Lift Station D - Industrial	0.0	2,200.0	0.0	0.0	0.0
Pond F - Hampton Industrial	0.0	3,630.0	0.0	0.0	0.0
Total	0.0	11,377.0	0.0	728.0	0.0
FINANCING DETAILS					
PRIVATE CONTRIBUTIONS	0.0	1,570.0	0.0	0.0	0.0

Land Development

Approved 2017

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
PROPERTY REALIZED RES	0.0	646.0	0.0	0.0	0.0
TRUNK SEWER RESERVE	0.0	7,390.0	0.0	728.0	0.0
WASTEWATER LIFT STATION RES	0.0	1,771.0	0.0	0.0	0.0
Total	0.0	11,377.0	0.0	728.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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	1500	2005
H- Lift Station-Blairmore Neighbourhood 1	-	-	2009/2010
HI- Forcemain-Lift Station to Marquis Trunk	-	-	2010/2011
F- Pond 1 Blairmore Neighbourhood 1	-	-	2011
FG/GH/HI Sani (EW) Yarrow	1,064	900/1050/675	
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) 2011-2014	1168	750-1500	
Pond 1 to N of yarrow			
CD-NS-Storm Trunks- Pond 2 to Pond 3&4	457	1050	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	2019

Land Development

Approved 2017

CE - Strom Pipe	450	900	Beyond 2021	
Pond 3 (2.2 ha)			Beyond 2021	
AB - Kensington to Blairmore San	850	600	2019	Required for Blairmore 3
AB - Blairmore to Pond A St	-	-	2019	Required for 1st phase of Blairmore 3
West Swale storm water management feasibility Study	-	-	2017	Required for future Blairmore neighbourhoods

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

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
AB -San/Strm Trunk - Kensington Blvd to Blairmore 3	0.0	0.0	1,577.0	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
West Swale Storm Water Feasability Study	150.0	0.0	0.0	0.0	0.0
Total	150.0	0.0	7,086.0	0.0	0.0
FINANCING DETAILS					
TRUNK SEWER RESERVE	150.0	0.0	7,086.0	0.0	0.0
Total	150.0	0.0	7,086.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2717 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	1134	1200	2014	Reqd for 1st neighbourhood - Phase 1
BC Storm- Hwy 5 to 2nd Intersection	1,093	1500/1200	2014	Reqd for 1st neighbourhood - Phase 1
CD Storm- EW Piping to Pond 1	1,730	1200/1800	2013	Reqd for 1st neighbourhood - Phase 3
D- Pond 1			2014	Total size of 15 ha - Reqd for 1st nbhd phase 1
CC'-San-EW of McOrmond Dr	1,386	600/375	2013/2014	Reqd for 1st neighbourhood - Phase 1
DD'E-Sani 2nd Intersection to 8th Street	2	900/375	2019	Reqd for 1st neighbourhood - Phase 2
CE-Storm 2nd Intersection to 8th Street	1,500	2100	2019	Reqd for 1st neighbourhood
EF Storm	1,040	2100	2020	Reqd for 2nd neighbourhood
EF Sanitary	1,040	750	2020	Reqd for 3rd neighbourhood
FG Sanitary	940	525	2021	

Prior Budget Approvals

\$14,843,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
CC' - San - East/West of McOrmond Drive	400.0	0.0	0.0	0.0	0.0
CE - Stm - Brighton Common to 8th Street	0.0	0.0	16,617.0	0.0	0.0
DD'E - San - Brighton Common to 8th Street	0.0	50.0	6,593.0	0.0	0.0
EF - San - 8th Street to Zimmerman	0.0	0.0	0.0	3,087.0	0.0
EF - Storm - 8th Street to Zimmerman	0.0	0.0	50.0	14,402.0	0.0
Total	400.0	50.0	23,260.0	17,489.0	0.0
FINANCING DETAILS					
TRUNK SEWER RESERVE	400.0	50.0	23,260.0	17,489.0	0.0
Total	400.0	50.0	23,260.0	17,489.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

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 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.

Year	City Lots	Private Lots
2017	-	350
2018	-	300

Prior Budget Approvals

\$12,943,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
2014 - A1 - Private	195.0	0.0	0.0	0.0	0.0
2015 - B1 - Private (S of Hwy 5)	0.0	1,214.0	0.0	0.0	0.0
2016 - D1 - City	0.0	1,718.0	0.0	0.0	0.0
Total	195.0	2,932.0	0.0	0.0	0.0
FINANCING DETAILS					
GENERAL PPD SERV-ELEC-CITY	0.0	391.0	0.0	0.0	0.0
GENERAL PPD SERV-ENGINEERING	195.0	1,866.0	0.0	0.0	0.0
GENERAL PREPAID SVCES-ELEC-SPC	0.0	675.0	0.0	0.0	0.0
Total	195.0	2,932.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1420 LAND DEV'T - INFILL DEVELOPMENTS

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

Project Description

This project has been established for Engineering analysis and Consultant studies for potential infill projects throughout the city.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Other	100.0	0.0	0.0	0.0	0.0
Sutherland	330.0	0.0	0.0	0.0	0.0
Total	430.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
PROPERTY REALIZED RES	430.0	0.0	0.0	0.0	0.0
Total	430.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1424 LAND DEV'T - NEIGHBOURHOOD 1-RIEL SECTOR

Project Status	Open	Year Identified	2017
Project Type	PREPAID LAND DEVELOPMENT	Manager	Daryl Schmidt
Asset Type	Land	Est. End Date	-

Project Description

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

General Comments

Funding is for the preliminary engineering design, other required engineering and environmental studies, and preliminary design of the area concept plan.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Preliminary Design	400.0	0.0	0.0	0.0	0.0
Total	400.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
PROPERTY REALIZED RES	400.0	0.0	0.0	0.0	0.0
Total	400.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 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 Ind.)
BC	855	600	2009	(Req'd for Phase 1 Marquis Ind. Including repurchase of 750mm Sask water main)
C'D	1,000	600	2012	(Required for Phase 2 Marquis Ind.)
DE	887	600	2019	(Required for Phase 2 Marquis Ind.)
IJ	830	900	2018	(Required for Area North of Marquis 11.)
EF	830	600	2021	(Req'd for completion of Marquis Ind.)
FG	600	600	Beyond 2021	(Req'd for area West of Hwy 11)
IF	1,880	900	2021	(Req'd for area West of CN & West of Swale)
J'J"	1,200	900	2020	(Req'd for area E of Wanuskewin & CNR)
J"J1	-	-	Beyond 2021	(Req'd for area East of Wanuskewin)
HI*	800	750	2014/2016/2017	(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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
DE - Marquis to 71st	0.0	0.0	1,400.0	0.0	0.0
EF - 71st St - West of Millar to Idylwyld	0.0	0.0	0.0	0.0	1,503.0
HI - Arthur Rose - 71st to 81st	250.0	0.0	0.0	0.0	0.0
IF - E/W - CNR to W of Swale	0.0	0.0	0.0	0.0	8,325.0
IJ - 81st - North Quarter	0.0	2,208.0	0.0	0.0	0.0
J"J1 - East of Wanuskewin Rd	0.0	0.0	0.0	0.0	1,910.0
J'J" - East Wanuskewin + East CNR	0.0	0.0	0.0	3,187.0	0.0
Total	250.0	2,208.0	1,400.0	3,187.0	11,738.0
FINANCING DETAILS					
PRIMARY WATERMAIN RES	250.0	2,208.0	1,400.0	3,187.0	11,738.0
Total	250.0	2,208.0	1,400.0	3,187.0	11,738.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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.

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)
EF	2,400	600	2018	(Req'd for Blairmore)
FG	1,200	600	2019	(Req'd for Blairmore)
GH	1,650	600	2020	(Req'd for Blairmore)
KL	4,230	1,050	Beyond 2021	(Required for System Upgrade/Future Growth)

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

Prior Budget Approvals

\$6,905,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
EF - Neault Rd - 33rd to 22nd	0.0	4,294.0	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	2,988.0	0.0
KLI - Fillmain Treatment Plant - 22nd/Circle	0.0	0.0	0.0	0.0	26,100.0
Total	0.0	4,294.0	2,173.0	2,988.0	26,100.0
FINANCING DETAILS					
PRIMARY WATERMAIN RES	0.0	4,294.0	2,173.0	2,988.0	0.0
PRIVATE CONTRIBUTIONS	0.0	0.0	0.0	0.0	26,100.0
Total	0.0	4,294.0	2,173.0	2,988.0	26,100.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 1200 hectares of staged development in the East Sector in the near future. In the long term these primaries will also facilitate approximately 1800 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	2020	(Required for 3rd Neighbourhood)
FG	1,000	1,050	Beyond 2021	(Required for 3rd Neighbourhood)

Prior Budget Approvals

\$3,435,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
DE - McOrmond - 2nd Round-About to 8th Street	0.0	0.0	4,628.0	0.0	0.0
EF - McOrmond - 8th St to Sec 20	0.0	0.0	0.0	3,209.0	0.0
Total	0.0	0.0	4,628.0	3,209.0	0.0
FINANCING DETAILS					
PRIMARY WATERMAIN RES	0.0	0.0	4,628.0	3,209.0	0.0
Total	0.0	0.0	4,628.0	3,209.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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, i.e. 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.

Worked planned for 2017 includes the following:

- 1) Regular rail upgrade / maintenance program (\$50,000)
- 2) Highway 7 rail crossing improvements (\$300,000); from this total \$225,000 is funded by Transport Canada and Pacific Railways
- 3) Rail regulation safety assessments (\$200,000)
- 4) Rail relocation/underpass feasibility study (\$650,000)

Item 4 will be completed in two phases over 2017/2018.

Special Note

The Other funding source identified in this project includes the City's matching contribution of \$325,000 for the Public Transit Infrastructure Fund which will be funded from a reallocation of utility dividend from Building Canada funded utility projects. In addition, \$225,000 will be funded from Transport Canada and Canadian Pacific Railway.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
CONSTRUCTION	1,200.0	300.0	190.0	200.0	200.0
Total	1,200.0	300.0	190.0	200.0	200.0
FINANCING DETAILS					
OTHER	550.0	160.0	50.0	50.0	50.0
PTIF - FEDERAL	325.0	0.0	0.0	0.0	0.0
TRAFFIC SAFETY RESERVE	325.0	140.0	140.0	150.0	150.0
Total	1,200.0	300.0	190.0	200.0	200.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2018 budget is being funded by private development (57%) and Property Realized Reserve (43%). The funding distribution represents the construction of the arterial roadway in advance of the permanent funding shown in Arterial Road Reserve in 2021.

Prior Budget Approvals

\$11,254,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Hampton Gate North to Hughes Drive	0.0	6,665.0	0.0	0.0	6,074.0
Hughes Drive to Neault Road	0.0	6,665.0	0.0	0.0	6,074.0
Total	0.0	13,330.0	0.0	0.0	12,148.0
FINANCING DETAILS					
ARTERIAL ROAD RESERVE	0.0	6,665.0	0.0	0.0	18,813.0
PRIVATE CONTRIBUTIONS	0.0	3,810.0	0.0	0.0	(3,810.0)
PROPERTY REALIZED RES	0.0	2,855.0	0.0	0.0	(2,855.0)
Total	0.0	13,330.0	0.0	0.0	12,148.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 begin in 2018.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
22nd Street - Kensington Gate W	0.0	0.0	0.0	5,308.0	0.0
33rd Street - Claypool Drive	0.0	3,429.0	0.0	0.0	3,125.0
Kensington Gate W - 33rd Street	0.0	0.0	4,504.0	0.0	4,104.0
Total	0.0	3,429.0	4,504.0	5,308.0	7,229.0
FINANCING DETAILS					
ARTERIAL ROAD RESERVE	0.0	3,429.0	4,504.0	5,308.0	7,229.0
Total	0.0	3,429.0	4,504.0	5,308.0	7,229.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Central to Konihowski	0.0	0.0	0.0	3,270.0	0.0
Konihowski/Lowe Rd	0.0	0.0	0.0	1,309.0	0.0
Total	0.0	0.0	0.0	4,579.0	0.0
FINANCING DETAILS					
ARTERIAL ROAD RESERVE	0.0	0.0	0.0	4,579.0	0.0
Total	0.0	0.0	0.0	4,579.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 the final two lanes 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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
71st Street to North of SE 1/4 Sec. 27	0.0	3,298.0	0.0	3,005.0	0.0
Total	0.0	3,298.0	0.0	3,005.0	0.0
FINANCING DETAILS					
ARTERIAL ROAD RESERVE	0.0	3,298.0	0.0	3,005.0	0.0
Total	0.0	3,298.0	0.0	3,005.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 Dalmeny 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Kensington Entrance to Dalmeny Rd.	0.0	4,552.0	0.0	0.0	0.0
Total	0.0	4,552.0	0.0	0.0	0.0
FINANCING DETAILS					
ARTERIAL ROAD RESERVE	0.0	4,552.0	0.0	0.0	0.0
Total	0.0	4,552.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
CPR Overpass to RR #3045	0.0	0.0	0.0	4,586.0	0.0
RR #3045 to McOrmond Drive	0.0	0.0	0.0	0.0	3,332.0
Total	0.0	0.0	0.0	4,586.0	3,332.0
FINANCING DETAILS					
ARTERIAL ROAD RESERVE	0.0	0.0	0.0	4,586.0	3,332.0
Total	0.0	0.0	0.0	4,586.0	3,332.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2019 to 2021 are estimated and will be adjusted to actual projects in future budgets.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Future Direct Servicing	0.0	0.0	54,702.0	46,079.0	52,026.0
Total	0.0	0.0	54,702.0	46,079.0	52,026.0
FINANCING DETAILS					
GENERAL PPD SERV-ENGINEERING	0.0	0.0	54,702.0	46,079.0	52,026.0
Total	0.0	0.0	54,702.0	46,079.0	52,026.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

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

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 new containers are required to service new households.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Equipment Purchase	509.0	371.0	384.0	398.0	413.0
Total	509.0	371.0	384.0	398.0	413.0
FINANCING DETAILS					
AUTO GARBAGE CONTAINER REPL RES	334.0	371.0	384.0	398.0	413.0
TU - CAPITAL RESERVE	175.0	0.0	0.0	0.0	0.0
Total	509.0	371.0	384.0	398.0	413.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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.

In 2017, the section of City-owned land between 15th and 17th street is expected to be the priority for additional instrumentation, monitoring, geotechnical analysis, and if required, remediation of sub-drainage to reduce the risk of damage to City-owned infrastructure.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Subdrain Monitoring & Instrumentation System	207.0	150.0	154.0	158.0	162.0
Subdrain Preservation & Slope Stabilization	828.0	200.0	205.0	210.0	215.0
Total	1,035.0	350.0	359.0	368.0	377.0
FINANCING DETAILS					
INFRA RES - STORM WATER	1,035.0	350.0	359.0	368.0	377.0
Total	1,035.0	350.0	359.0	368.0	377.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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.

The 2017 program includes the following neighbourhoods, if fully funded:

- 1) Caswell Hill: \$90,000
- 2) City Park: \$135,000
- 3) Nutana: \$195,000
- 4) Mayfair: \$140,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Construction & Design	160.0	560.0	560.0	560.0	560.0
Total	160.0	560.0	560.0	560.0	560.0
FINANCING DETAILS					
TRAFFIC SAFETY RESERVE	160.0	160.0	160.0	160.0	200.0
UNFUNDED TRAFFIC SAFETY RES	0.0	400.0	400.0	400.0	360.0
Total	160.0	560.0	560.0	560.0	560.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	375.0	375.0	375.0	375.0	375.0
Total	375.0	375.0	375.0	375.0	375.0
FINANCING DETAILS					
INFRA RES-TRANSPORTATION	375.0	375.0	375.0	375.0	375.0
Total	375.0	375.0	375.0	375.0	375.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	200.0	375.0	400.0	400.0	400.0
Total	200.0	375.0	400.0	400.0	400.0
FINANCING DETAILS					
INFRA RES-TRANSPORTATION	200.0	300.0	300.0	300.0	300.0
UNFUNDED TRANSPORTATION INFRA RES	0.0	75.0	100.0	100.0	100.0
Total	200.0	375.0	400.0	400.0	400.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Installation/Replacement	120.0	125.0	125.0	125.0	125.0
Total	120.0	125.0	125.0	125.0	125.0
FINANCING DETAILS					
INFRA RES-TRANSPORTATION	120.0	50.0	50.0	50.0	50.0
UNFUNDED TRANSPORTATION INFRA RES	0.0	75.0	75.0	75.0	75.0
Total	120.0	125.0	125.0	125.0	125.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1508 CY-CITY ENTRANCE SIGNS

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

Project Description

This project is a program for the installation of city entry signs welcoming the travelling public to the City of Saskatoon.

General Comments

The following primary highway signs have been completed under this project:

Airport Drive

Highway 11 South

Highway 16 NW

Highway 16 SE

Highway 11 N

Blairmore Overpass Sign (Highway 7 W)

Highway 7

Construction will begin on the following signs once the land has been acquired:

Highway 12 (approved budget \$135,000)

Highway 5 East (approved budget \$145,000)

Highway 14 (approved budget \$100,000)

The 2018 plan involved the design, construction and installation of a sign at Highway 219, however, the program is under review and future construction projects may not proceed. An ongoing maintenance budget would be required.

Operating Impact

2018 - \$20,000 will be required annually to provide for maintenance of existing highway signs.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	0.0	130.0	0.0	130.0	0.0
Design	0.0	20.0	0.0	20.0	0.0
Total	0.0	150.0	0.0	150.0	0.0
FINANCING DETAILS					
UNFUNDED RCE	0.0	150.0	0.0	150.0	0.0
Total	0.0	150.0	0.0	150.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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

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.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Construction	350.0	350.0	350.0	350.0	350.0
Total	350.0	350.0	350.0	350.0	350.0
FINANCING DETAILS					
TRAFFIC SAFETY RESERVE	350.0	200.0	200.0	200.0	250.0
UNFUNDED TRAFFIC SAFETY RES	0.0	150.0	150.0	150.0	100.0
Total	350.0	350.0	350.0	350.0	350.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	275.0	400.0	400.0	400.0	400.0
Total	275.0	400.0	400.0	400.0	400.0
FINANCING DETAILS					
INFRA RES-TRANSPORTATION	275.0	290.0	290.0	290.0	300.0
UNFUNDED TRANSPORTATION INFRA RES	0.0	110.0	110.0	110.0	100.0
Total	275.0	400.0	400.0	400.0	400.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017 budget will provide further support for resources to complete system conversion.

Prior Budget Approvals

\$595,000 Implementation

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

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Implementation	160.0	60.0	60.0	60.0	60.0
Total	160.0	60.0	60.0	60.0	60.0
FINANCING DETAILS					
PARKING RESERVE	160.0	60.0	60.0	60.0	60.0
Total	160.0	60.0	60.0	60.0	60.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
EQUIPMENT PURCHASE	350.0	350.0	350.0	400.0	400.0
Total	350.0	350.0	350.0	400.0	400.0
FINANCING DETAILS					
CIVIC RADIO REPL & EXPN RESERVE	350.0	350.0	350.0	400.0	400.0
Total	350.0	350.0	350.0	400.0	400.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2020 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
	0.0	0.0	200.0	4,370.0	0.0
Total	0.0	0.0	200.0	4,370.0	0.0
FINANCING DETAILS					
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	2,130.0	0.0
Total	0.0	0.0	200.0	4,370.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1527 TU-UNIVERSITY BRIDGE REHAB

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

Project Description

This project involves the rehabilitation of the University Bridge.

General Comments

The University Bridge is a 10 span, four lane concrete arch and girder bridge, originally constructed in 1916. The estimated replacement cost for this structure is approximately \$78.1 million.

Rehabilitation of the bridge piers' arches is planned for the year 2021. This work would include engineering and construction services for the repair of concrete section loss on Piers CD and GH, and rehabilitation of the concrete arches.

The City of Saskatoon is currently completing a study on the arches of the University Bridge which will be able to provide additional information relating to costs on the rehabilitation of the arches that may be required in 2021.

Prior Budget Approvals

\$2,022,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Rehabilitation	0.0	0.0	0.0	0.0	18,000.0
Total	0.0	0.0	0.0	0.0	18,000.0
FINANCING DETAILS					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	0.0	0.0	0.0	18,000.0
Total	0.0	0.0	0.0	0.0	18,000.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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.

Rehabilitation work planned for 2018 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Repairs	0.0	566.0	0.0	0.0	0.0
Total	0.0	566.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	566.0	0.0	0.0	0.0
Total	0.0	566.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2018 will occur in 2016 and 2017. Rehabilitation work planned for 2018 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.

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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Bridge Deck Resurfacing	300.0	9,540.0	0.0	0.0	0.0
Total	300.0	9,540.0	0.0	0.0	0.0
FINANCING DETAILS					
BRIDGE MAJOR REPAIR RESERVE	300.0	9,540.0	0.0	0.0	0.0
Total	300.0	9,540.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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	Cory Funk
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.

Prior Budget Approvals

\$150,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Design and Implementation	0.0	100.0	100.0	100.0	100.0
Total	0.0	100.0	100.0	100.0	100.0
FINANCING DETAILS					
TU - CAPITAL RESERVE	0.0	100.0	100.0	100.0	100.0
Total	0.0	100.0	100.0	100.0	100.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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

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

Major modifications to office space in the Transportation and Utilities Department have been identified. As well, the existing systems furniture is dated and no longer manufactured - any required upgrades or modifications are not compatible with the existing furniture.

Prior Budget Approvals

\$101,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Office Furniture System Replacement	0.0	50.0	50.0	50.0	50.0
Total	0.0	50.0	50.0	50.0	50.0
FINANCING DETAILS					
TU - CAPITAL RESERVE	0.0	50.0	50.0	50.0	50.0
Total	0.0	50.0	50.0	50.0	50.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 substance preservation work planned in 2017 and has now been deferred to 2018 includes engineering services, spot repairs to abutments and piers and application of the galvanic protection system.

The rehabilitation of the structure is planned for 2020 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
College Drive Westbound Over CPR Overpass	0.0	234.0	100.0	1,714.0	0.0
Total	0.0	234.0	100.0	1,714.0	0.0
FINANCING DETAILS					
BRIDGE MAJOR REPAIR RESERVE	0.0	0.0	100.0	305.0	0.0
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	234.0	0.0	1,409.0	0.0
Total	0.0	234.0	100.0	1,714.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 unfunded substructure preservation work that was planned for 2017 includes engineering services, spot repairs to abutments and piers and application of a galvanic protection system and has now been deferred to 2018.

The rehabilitation of the structure is planned for 2023 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
College Drive Eastbound Over CPR Overpass	0.0	343.0	0.0	0.0	0.0
Total	0.0	343.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	343.0	0.0	0.0	0.0
Total	0.0	343.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017 is for completion of a section of the neighbourhood core park and construction of a linear park.

Operating Impact

\$ 38,700 for Park Maintenance in 2019

Prior Budget Approvals

\$ 2,419,000 for design and construction of the neighbourhood core park

\$ 87,000 for design of a 4.69 acre linear park

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Core Parks	188.0	71.0	884.0	848.0	0.0
Linear Parks	862.0	0.0	166.0	1,494.0	0.0
Pocket Parks	0.0	0.0	0.0	418.0	0.0
Village Square	0.0	261.0	0.0	0.0	0.0
Total	1,050.0	332.0	1,050.0	2,760.0	0.0
FINANCING DETAILS					
PARKS AND RECREATION LEVY (NBHD)	1,050.0	332.0	1,050.0	2,760.0	0.0
Total	1,050.0	332.0	1,050.0	2,760.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	38.7	0.0	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

Funding identified in 2017 for the construction of the village square.

Operating Impacts

\$8,900 in 2019 for maintenance of the village square

Prior Budget Approvals

\$34,000 for design of the village square

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Core Parks	0.0	2,785.0	586.0	0.0	0.0
Linear Parks	0.0	0.0	14.0	349.0	0.0
Pocket Parks	0.0	0.0	39.0	351.0	0.0
Village Square	314.0	0.0	0.0	0.0	0.0
Total	314.0	2,785.0	639.0	700.0	0.0
FINANCING DETAILS					
PARKS AND RECREATION LEVY (NBHD)	314.0	2,785.0	639.0	700.0	0.0
Total	314.0	2,785.0	639.0	700.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	8.9	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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Comprehensive Review Study	0.0	50.0	0.0	0.0	0.0
Total	0.0	50.0	0.0	0.0	0.0
FINANCING DETAILS					
STREETSCAPE RESERVE-BID	0.0	50.0	0.0	0.0	0.0
Total	0.0	50.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017 is for the construction of a 0.43 acre linear park and design of four linear parks totalling 6.26 acres.

Operating Impact

\$ 3,100 in 2019 for linear park to be constructed in 2017

\$44,100 in 2020 for 4 parks designed in 2017

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Core Parks	0.0	0.0	0.0	379.0	3,414.0
Linear Parks	272.0	1,700.0	100.0	965.0	623.0
Pocket Park	0.0	0.0	41.0	369.0	54.0
Village Square	0.0	0.0	0.0	34.0	302.0
Total	272.0	1,700.0	141.0	1,747.0	4,393.0
FINANCING DETAILS					
PARKS AND RECREATION LEVY (NBHD)	272.0	1,700.0	141.0	1,747.0	4,393.0
Total	272.0	1,700.0	141.0	1,747.0	4,393.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	3.1	44.1	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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Core Parks	0.0	0.0	0.0	316.0	2,843.0
District Park	0.0	0.0	0.0	1,823.0	113.0
Linear Parks	0.0	0.0	0.0	1,205.0	1,185.0
Pocket Parks	0.0	0.0	0.0	31.0	319.0
Village Square	0.0	0.0	0.0	0.0	35.0
Total	0.0	0.0	0.0	3,375.0	4,495.0
FINANCING DETAILS					
PARKS AND RECREATION LEVY (DISTRICT)	0.0	0.0	0.0	1,823.0	113.0
PARKS AND RECREATION LEVY (NBHD)	0.0	0.0	0.0	1,552.0	4,382.0
Total	0.0	0.0	0.0	3,375.0	4,495.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

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

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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Core Parks	0.0	465.0	4,183.0	880.0	0.0
District Park	0.0	256.0	2,306.0	236.0	2,118.0
Linear Parks	0.0	169.0	0.0	128.0	1,136.0
Pocket Parks	0.0	405.0	0.0	149.0	1,340.0
Total	0.0	1,295.0	6,489.0	1,393.0	4,594.0
FINANCING DETAILS					
PARKS AND RECREATION LEVY (DISTRICT)	0.0	218.0	1,967.0	236.0	2,118.0
PARKS AND RECREATION LEVY (MULTI-DISTRICT)	0.0	38.0	339.0	0.0	0.0
PARKS AND RECREATION LEVY (NBHD)	0.0	1,039.0	4,183.0	1,157.0	2,476.0
Total	0.0	1,295.0	6,489.0	1,393.0	4,594.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Linda Andal
Asset Type	Buildings	Est. End Date	-

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. Relocating Transit will allow for decommissioning and the redevelopment of the vacated portion of Caswell Hill which has been identified as a Council priority. This Phase will also include the first permanent Snow Storage Facility. This facility will manage snow melt water and meet environmental regulations. Phase One construction is anticipated to be complete in 2016.

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.

The \$500,000 requested in 2017 will be used 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)

Special Note

The Other funding source identified in this project is tracked through Civic Facilities Funding Plan.

Operating Impact

The operating budget impact for Phase Two will be determined in 2017.

Prior Budget Approvals

\$131,426,000 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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
City Yards	500.0	0.0	52,000.0	47,500.0	0.0
Transit/Snowdump	0.0	8,000.0	0.0	0.0	0.0
Total	500.0	8,000.0	52,000.0	47,500.0	0.0
FINANCING DETAILS					
OTHER	500.0	8,000.0	52,000.0	0.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	47,500.0	0.0
Total	500.0	8,000.0	52,000.0	47,500.0	0.0

Corporate Asset Management

Approved 2017

Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

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

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.

In 2017, the Lakeridge Community Association will be partnering with the Lakeridge Playground Enhancement Committee and the City of Saskatoon to replace the 30 year-old playground equipment in Crocus Park in the Lakeridge neighbourhood.

Special Note

This project is contingent on receiving contributions from the Community Association.

Operating Impact

\$7,700 Maintenance of playground equipment

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Crocus Park Playground	140.0	0.0	0.0	0.0	0.0
Total	140.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
PARK ENHANCE RES	10.0	0.0	0.0	0.0	0.0
PRIVATE CONTRIBUTIONS	130.0	0.0	0.0	0.0	0.0
Total	140.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	7.7	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1615 TU-WATER DISTRIBUTION

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

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.

The Clean Water and Wastewater Funding approved by the Federal and Provincial Governments in 2016 will be used to rehabilitate low-capacity water mains as well as accelerate water main replacements in locations where service levels are not met due to water main breaks.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Capacity Programs	560.0	5,673.0	5,815.0	5,961.0	6,110.0
Capital Operations	169.0	173.0	178.0	182.0	187.0
Clean Water and Wastewater Fund	18,900.0	0.0	0.0	0.0	0.0
Flow Monitoring	21.0	21.0	22.0	22.0	23.0
General Support	36.0	37.0	38.0	39.0	40.0
HO Req Backlog	1,635.0	1,676.0	0.0	0.0	0.0
Lead Connections	769.0	788.0	808.0	828.0	849.0
Longterm Lead	0.0	2,306.0	2,364.0	2,423.0	2,484.0
Modelling and Monitoring Support	50.0	50.0	50.0	50.0	50.0
Network Management	154.0	158.0	162.0	166.0	170.0
Preservation Program	5,495.0	5,853.0	6,233.0	6,638.0	7,070.0
Total	27,789.0	16,735.0	15,670.0	16,309.0	16,983.0
FINANCING DETAILS					
CWWF - FEDERAL	9,450.0	0.0	0.0	0.0	0.0
CWWF - PROVINCIAL	4,725.0	0.0	0.0	0.0	0.0
INFRA RES-WTR & SAN SWR	13,614.0	16,735.0	15,670.0	16,309.0	16,983.0
Total	27,789.0	16,735.0	15,670.0	16,309.0	16,983.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

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

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.

The Clean Water and Wastewater Funding approved by the Federal and Provincial Governments in 2016 will be used to rehabilitate sanitary mains that have been identified as requiring rehabilitation in order to maintain structural integrity.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Capital Operations	154.0	158.0	162.0	166.0	170.0
Clean Water and Wastewater Fund	2,700.0	0.0	0.0	0.0	0.0
Connection Replacements	630.0	646.0	662.0	679.0	696.0
Flow Monitoring	41.0	42.0	43.0	44.0	45.0
General Support	36.0	37.0	38.0	39.0	40.0
Modelling and Monitoring Support	50.0	50.0	50.0	50.0	50.0
Network Management	282.0	289.0	296.0	304.0	311.0
Preservation Program	3,118.0	3,887.0	3,984.0	4,084.0	4,186.0
Total	7,011.0	5,109.0	5,235.0	5,366.0	5,498.0
FINANCING DETAILS					
CWWF - FEDERAL	1,350.0	0.0	0.0	0.0	0.0
CWWF - PROVINCIAL	675.0	0.0	0.0	0.0	0.0
INFRA RES-WTR & SAN SWR	4,986.0	5,109.0	5,235.0	5,366.0	5,498.0
Total	7,011.0	5,109.0	5,235.0	5,366.0	5,498.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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

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.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Capacity Programs	236.0	242.0	248.0	254.0	260.0
Flow Monitoring	21.0	21.0	22.0	22.0	23.0
General Support	31.0	32.0	32.0	33.0	34.0
Network Management	103.0	105.0	108.0	110.0	113.0
Operating Programs	26.0	26.0	26.0	26.0	26.0
Preservation Program	1,532.0	1,571.0	4,564.0	4,553.0	4,542.0
Total	1,949.0	1,997.0	5,000.0	4,998.0	4,998.0
FINANCING DETAILS					
INFRA RES-WTR & SAN SWR	1,949.0	1,997.0	5,000.0	4,998.0	4,998.0
Total	1,949.0	1,997.0	5,000.0	4,998.0	4,998.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

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

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Capacity Programs	164.0	168.0	172.0	177.0	181.0
Capital Operations	41.0	42.0	43.0	44.0	45.0
Flow Monitoring	41.0	42.0	43.0	44.0	45.0
General Support	31.0	32.0	32.0	33.0	34.0
Network Management	236.0	242.0	248.0	254.0	260.0
Preservation Program	1,324.0	1,357.0	1,391.0	1,426.0	1,462.0
Total	1,837.0	1,883.0	1,929.0	1,978.0	2,027.0
FINANCING DETAILS					
INFRA RES-WTR & SAN SWR	1,837.0	1,883.0	1,929.0	1,978.0	2,027.0
Total	1,837.0	1,883.0	1,929.0	1,978.0	2,027.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Capacity Program	307.0	477.0	4,500.0	500.0	513.0
Capital Operations	185.0	26.0	0.0	0.0	0.0
Network Management	259.0	265.0	272.0	279.0	285.0
Preservation Program	373.0	382.0	391.0	401.0	411.0
Total	1,124.0	1,150.0	5,163.0	1,180.0	1,209.0
FINANCING DETAILS					
INFRA RES - STORM WATER	1,124.0	1,150.0	5,163.0	1,180.0	1,209.0
Total	1,124.0	1,150.0	5,163.0	1,180.0	1,209.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 and Capacity Components involve project design, administration and construction to preserve the storm ponds on a priority basis.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Network Management	21.0	21.0	22.0	22.0	23.0
Preservation Program	104.0	106.0	109.0	111.0	114.0
Total	125.0	127.0	131.0	133.0	137.0
FINANCING DETAILS					
INFRA RES - STORM WATER	125.0	127.0	131.0	133.0	137.0
Total	125.0	127.0	131.0	133.0	137.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Design and Construction	0.0	350.0	350.0	350.0	350.0
Total	0.0	350.0	350.0	350.0	350.0
FINANCING DETAILS					
UNFUNDED RCE	0.0	350.0	350.0	350.0	350.0
Total	0.0	350.0	350.0	350.0	350.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

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

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Diefenbaker Park Master Plan	0.0	0.0	210.0	0.0	0.0
Total	0.0	0.0	210.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED RCE	0.0	0.0	210.0	0.0	0.0
Total	0.0	0.0	210.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Tree Trimming	50.0	50.0	50.0	50.0	50.0
Total	50.0	50.0	50.0	50.0	50.0
FINANCING DETAILS					
RESERVE FOR CAPITAL EXPENDITURES	50.0	0.0	0.0	0.0	0.0
UNFUNDED TRANSPORTATION INFRA RES	0.0	50.0	50.0	50.0	50.0
Total	50.0	50.0	50.0	50.0	50.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1641 CY-PARKS-ARBOR CREEK PARK PEDESTRIAN BRIDGES REPLACEMENT

Project Status	Open	Year Identified	2017
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Dave Hutchings
Asset Type	Parks and Open Spaces	Est. End Date	-

Project Description

This project provides for the replacement of pedestrian bridges throughout Arbor Creek Park.

General Comments

A total of six bridges span creek beds throughout the Arbor Creek Park allowing pedestrian traffic to safely navigate the park pathway system. The current bridges have reached or are reaching the end of their life cycle, with one bridge being taken out of service due to safety concerns resulting from its current poor condition.

In 2017 all six bridges will be replaced.

Special Note

The funding source for this project is a special development levy that was established in 1994 to partially pay for the maintenance and replacement of the components of the re-circulating stream; this fund will be depleted in 2017.

Operating Impact

2018 - \$4,800 Replacement Reserve Contribution (3.7% of capital cost; estimated useful life is 25 to 30 years)

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Pedestrian Bridge Replacement	130.0	0.0	0.0	0.0	0.0
Total	130.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
ARBOR CREEK PARK EQUIPMENT RESERVE	130.0	0.0	0.0	0.0	0.0
Total	130.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	4.8	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1650 CY-NEW MUNICIPAL CEMETERIES

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

Project Description

This project provides funding for the development of a Saskatoon Municipal Cemetery Service 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, the estimated life span of Woodlawn is approximately 25 years.

The Master Plan will provide high level guidance with regard to an accurate count of the 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; and management strategies.

Operating Impact

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

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Feasibility Study	0.0	80.0	0.0	0.0	0.0
Total	0.0	80.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED RCE	0.0	80.0	0.0	0.0	0.0
Total	0.0	80.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1653 CY-PARK DRAINAGE

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

Project Description

This project involves drainage remediation in parks throughout the City. Drainage remediation is required due to high water tables, as well as sump and storm water discharge from private properties bordering park areas. The excess moisture results in:

- loss of plant material in parks and greenspaces (flooded-out);
- standing water which is unsightly, creates anoxic soil (foul smell), and exacerbates mosquito breeding;
- slipping hazards on park pathways due to algae and ice;
- erosion of slopes and granular pathways;
- premature deterioration of asphalt pathways, as well as other hard park infrastructure such as fence posts and signs;
- soft park conditions that are not able support regular mowing activities; and
- water intrusion onto private property.

General Comments

Drainage installation involves the installation of subsurface (French drain tile or surface, culverts, or drainage systems) or the regrading of existing landscape surfaces to ensure positive drainage to appropriate discharge points.

The 2017 budget includes drainage installations in Varley Park, Hawthorne Park, and Chernesky Park.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	100.0	0.0	0.0	0.0	0.0
Total	100.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
DEDICATED LANDS RESERVE	100.0	0.0	0.0	0.0	0.0
Total	100.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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

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 ensure 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 metres of cemetery roadway rated as being in poor condition. Phased upgrades have been planned over a five year period in an effort to bring all roadways within Woodlawn Cemetery to good condition, to be completed by 2019. Since 2015, upgrades to approximately 17,000 square meters (approximately 50%) of the heavily used poor condition roadways in Woodlawn Cemetery have been completed.

The 2017 budget will allow roadway upgrades to continue on another 5,200 square meters of cemetery roadways that have been identified as being in poor condition and requiring major upgrade.

Prior Budget Approval

\$450,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Construction	150.0	150.0	160.0	0.0	0.0
Total	150.0	150.0	160.0	0.0	0.0
FINANCING DETAILS					
RESERVE FOR CAPITAL EXPENDITURES	150.0	0.0	0.0	0.0	0.0
UNFUNDED RCE	0.0	150.0	160.0	0.0	0.0
Total	150.0	150.0	160.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 is the result of service review findings that indicate an expansion of Park maintenance buildings is necessary as the area of City parks and open space continues to grow.

General Comments

To improve operating efficiencies of the Parks Maintenance program, a new service delivery model is being implemented that includes new satellite maintenance buildings and equipment strategically located geographically closer to parks in new neighbourhoods. This will reduce travel time to and from existing maintenance facilities to the parks, and will result in more effective use of staff resources and be safer for workers that travel on city roadways.

Operating Impacts

2018 - \$18,000 CBCM (\$3,000 per building)

2018 - \$13,200 Utilities (\$2,200 per building)

Prior Budget Approvals

\$95,000 for design of the six satellite maintenance buildings to be located at Kinsmen, Hyde, Peter Zakreski and Lakewood Parks and in the Kensington and Evergreen neighbourhoods.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Brighton	0.0	20.0	250.0	0.0	0.0
Evergreen District	255.0	0.0	0.0	0.0	0.0
Hampton Village	255.0	0.0	0.0	0.0	0.0
Hyde Park	255.0	0.0	0.0	0.0	0.0
Kinsmen Park	255.0	0.0	0.0	0.0	0.0
Lakewood Park	255.0	0.0	0.0	0.0	0.0
Peter Zakreski Park	250.0	0.0	0.0	0.0	0.0
Total	1,525.0	20.0	250.0	0.0	0.0
FINANCING DETAILS					
PARKS AND RECREATION LEVY (MULTI-DISTRICT)	1,270.0	20.0	250.0	0.0	0.0
RESERVE FOR CAPITAL EXPENDITURES	255.0	0.0	0.0	0.0	0.0
Total	1,525.0	20.0	250.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	31.2	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1662 CY-ELM TREE INVENTORY

Project Status	Open	Year Identified	2016
Project Type	PREPAID LAND DEVELOPMENT	Manager	Michelle Chartier
Asset Type		Est. End Date	-

Project Description

This project involves creating an inventory database of elm trees situated on public and private property. An accurate inventory is required to help prevent the spread of Dutch elm disease within Saskatoon.

General Comments

Dutch elm disease is a fungal disease that is transmitted by bark beetles and through root grafts. It blocks water movement and can cause rapid decline of elm trees. The City of Saskatoon's first confirmed case of Dutch elm disease was identified in a privately owned elm tree in July, 2015.

The Urban Forestry section uses an inventory system to manage approximately 30,000 elm trees located on boulevards and parks. Currently there is no inventory of the number and distribution of elm trees on private property and on public land that is not under management by urban forestry (e.g. golf courses, cemeteries, campgrounds and the river valley). Expanding the current elm tree inventory to identify trees located on both public and private property is a necessary step to ensure that all elm trees are managed within a comprehensive Dutch Elm Disease Management Plan.

Special Note

This project is funded by the Deferred Tree Replacement Account.

Prior Budget Approval

\$50,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Elm Tree Inventory	50.0	0.0	0.0	0.0	0.0
Total	50.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
OTHER	50.0	0.0	0.0	0.0	0.0
Total	50.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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	Darren Crilly
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 2017 and 2018, the funding source is an allocation from the Neighbourhood Land Development Fund. This will enable Meewasin to initiate 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. Meewasin may be able to advance work as funds are available.

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.

Operating Impact

City Operating impacts of \$61,000 annually will be incurred from 2019 onward as amenities are developed and require maintenance.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
N.E. Swale	500.0	500.0	1,870.0	0.0	0.0
Total	500.0	500.0	1,870.0	0.0	0.0
FINANCING DETAILS					
NEIGHBOURHOOD LAND DEVELOPMENT FUND	500.0	500.0	500.0	0.0	0.0
PRIVATE CONTRIBUTIONS	0.0	0.0	1,370.0	0.0	0.0
Total	500.0	500.0	1,870.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	61.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1664 CY-GORDON HOWE COMPLEX UPGRADES

Project Status	Open	Year Identified	2016
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Roxane Melnyk
Asset Type	Parking Lots	Est. End Date	-

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, Gordie Howe 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

With the upgrades at SMF Field, the new clubhouse facility and the extension of the operating season, the Gordie Howe Sports Complex is seeing a significant increase in activity in all areas. Programming at the SMF Field has increased from a previous average of 110 hours annually to an estimated 1,400 hours. The additional programming at the football field as well as the other sports venues within the complex has increased vehicle traffic and usage of the parking facilities and some facilities require upgrades to address deficiencies or to meet new National Standards. The various components of the project are being brought forward by either the City of Saskatoon or the Friends of the Bowl Foundation and includes a commitment from the FOTBF for funding a number of the projects.

The project components being requested include:

- Parking lot lighting and curbs
- Gordie Howe Softball Diamond backstop replacement to meet National Standards
- Clarence Downey Speedskating Oval upgrades and timing equipment

Operating Impact

\$5,400 - Lighting

\$2,500 - Softball backstop

\$9,600 - Speedskating oval paving maintenance; equipment replacement operating impact to be determined.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Parking lot lighting and curbs	200.0	0.0	0.0	0.0	0.0
Softball Diamond Backstop Replacement	110.0	0.0	0.0	0.0	0.0
Speedskating oval - timing clock, paving apron, grading track, new mats	1,200.0	0.0	0.0	0.0	0.0
Total	1,510.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
DEDICATED LANDS RESERVE	100.0	0.0	0.0	0.0	0.0
PRIVATE CONTRIBUTIONS	1,410.0	0.0	0.0	0.0	0.0
Total	1,510.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	17.5	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 runoff 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

\$1,139,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Utility Billing Management	78.0	80.0	82.0	84.0	86.0
Total	78.0	80.0	82.0	84.0	86.0
FINANCING DETAILS					
INFRA RES - STORM WATER	78.0	80.0	82.0	84.0	86.0
Total	78.0	80.0	82.0	84.0	86.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
New Central Library Construction	0.0	0.0	6,000.0	500.0	2,000.0
Total	0.0	0.0	6,000.0	500.0	2,000.0
FINANCING DETAILS					
PUBLIC LIB CAP EXP'N FUND	0.0	0.0	2,150.0	0.0	0.0
PUBLIC LIBRARY NEW CENTRAL LIBRARY RESERVE	0.0	0.0	3,850.0	500.0	2,000.0
Total	0.0	0.0	6,000.0	500.0	2,000.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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. The project will include construction of municipal services on 68th Street, 69th Street and 60th Street. 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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
2012 - C8 - City (64th, 66th, Faithfull Ave & Siemens)	460.0	0.0	0.0	0.0	0.0
2013 - C11 - City (North of 71st, East of CNR)	300.0	4,400.0	0.0	0.0	0.0
2015 - C12 - City (N of Marquis Dr)	122.0	2,123.0	0.0	0.0	0.0
Total	882.0	6,523.0	0.0	0.0	0.0
FINANCING DETAILS					
GENERAL PPD SERV-ELEC-CITY	0.0	325.0	0.0	0.0	0.0
GENERAL PPD SERV-ENGINEERING	524.0	4,994.0	0.0	0.0	0.0
PROPERTY REALIZED RES	358.0	1,204.0	0.0	0.0	0.0
Total	882.0	6,523.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1780 CP-CORP NETWORK INFRASTRUCTURE

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

Project Description

This project involves enhancements to the corporate network infrastructure in civic facilities and the implementation of network management tools. This may include the replacement of obsolete network switches and routers, improvements to wiring closets and upgrades to the Corporate Network backbone.

General Comments

The proposed expenditures are for switch and router upgrades.

Details for 2017:

End of Life Switches \$25,000

10GB Switches for Datacenters \$100,000

Total \$125,000

Operating Impact

2018 - Switch Maintenance \$10,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Equipment Purchase	125.0	125.0	125.0	125.0	150.0
Total	125.0	125.0	125.0	125.0	150.0
FINANCING DETAILS					
COMPUTER EQUIPMENT REPL RES	125.0	125.0	125.0	125.0	150.0
Total	125.0	125.0	125.0	125.0	150.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	10.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1812 SASKTEL CENTRE-EQUIPMENT PURCHASES

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

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Box Office System	0.0	10.0	0.0	10.0	0.0
Computers	10.0	0.0	10.0	0.0	10.0
Concession - Heaters & Poppers	0.0	20.0	0.0	0.0	0.0
Concession Equipment	0.0	0.0	0.0	20.0	0.0
Custodial Equipment	0.0	0.0	60.0	0.0	0.0
Electrical Equipment	50.0	0.0	0.0	0.0	0.0
Forklift- 5 Ton	40.0	0.0	80.0	40.0	0.0
Ice Decking System	8.0	8.0	8.0	8.0	8.0
Mower	0.0	10.0	0.0	0.0	0.0
Office Furniture & Equipment	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
Scissorlift	15.0	0.0	0.0	0.0	0.0
Sound System	20.0	0.0	0.0	0.0	50.0
Staging	10.0	0.0	0.0	10.0	0.0
Tables & Draping System	10.0	0.0	0.0	10.0	0.0
Vehicles	0.0	0.0	0.0	0.0	15.0
Video Equipment	10.0	10.0	10.0	10.0	10.0
Total	198.0	73.0	183.0	123.0	108.0
FINANCING DETAILS					
SASKTEL CENTRE EQUIPMENT REPL	198.0	73.0	183.0	123.0	108.0
Total	198.0	73.0	183.0	123.0	108.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2015
Project Type	SUPPORT SYSTEMS	Manager	Clae Hack
Asset Type	Software	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 to making the necessary changes to the 1st (main) floor of City Hall and applicable technology requirements to accommodate the vision of the new Service Saskatoon customer service area. Each Capital Project is integral to the success of establishing the 'one-stop' customer experience at the service level kiosks applying the new Service Saskatoon model of enhanced customer service.

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.

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 should this project be funded in future years.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
ERP System Design	500.0	5,750.0	5,780.0	5,970.0	0.0
Total	500.0	5,750.0	5,780.0	5,970.0	0.0
FINANCING DETAILS					
RESERVE FOR CAPITAL EXPENDITURES	500.0	0.0	0.0	0.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	5,750.0	5,780.0	5,970.0	0.0
Total	500.0	5,750.0	5,780.0	5,970.0	0.0

Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	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 2017 funding is for equipment such as a point of sale system, electronic equipment and system upgrades.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Equipment Replacement	53.0	41.0	86.0	86.0	0.0
Total	53.0	41.0	86.0	86.0	0.0
FINANCING DETAILS					
REMAI MODERN EQUIPMENT REPLACEMENT	53.0	41.0	86.0	0.0	0.0
Total	53.0	41.0	86.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 Hundebby
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Surface Coating	50.0	0.0	50.0	0.0	50.0
Total	50.0	0.0	50.0	0.0	50.0
FINANCING DETAILS					
CIVIC BLDGS COMPR MTNCE	50.0	0.0	50.0	0.0	50.0
Total	50.0	0.0	50.0	0.0	50.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 Documentum, and will continue with the SharePoint integration portion of that project in 2016. The City Clerk's Office will also continue with the implementation of the electronic records management system in other departments to manage the continued growth of electronic records and to follow the Retention and Disposition Schedules pursuant to The Cities Act.

Expenditures in 2019 are for minor upgrades and additional Electronic Records Management software licensing for new users. 2020 Expenditures will include the purchase of new software.

Prior Budget Approval

\$645,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Equipment Purchase	0.0	0.0	85.0	350.0	50.0
Total	0.0	0.0	85.0	350.0	50.0
FINANCING DETAILS					
CK - CAPITAL RESERVE	0.0	0.0	85.0	350.0	50.0
Total	0.0	0.0	85.0	350.0	50.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2019, the five-year agreement will be reviewed.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
EQUIPMENT PURCHASES	0.0	0.0	90.0	0.0	0.0
Total	0.0	0.0	90.0	0.0	0.0
FINANCING DETAILS					
OPERATING FUND CONTRIBUTION	0.0	0.0	90.0	0.0	0.0
Total	0.0	0.0	90.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1893 TU-IDYLWYLD DRIVE/51ST ST OVERPASS REHAB

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

Project Description

This project involves rehabilitation of the Idylwyld Drive/51st Street overpass.

General Comments

The 51st Street over Idylwyld Drive overpass is a four lane, two span, steel girder bridge, originally constructed in 1990. The estimated replacement cost for this structure is approximately \$14.0 million.

The unfunded proactive rehabilitation work that would be planned for 2017 and now has been deferred to 2018 includes engineering services, removal and replacement of the asphalt wearing surface and membrane, replacement of the expansion joints, spot repairs to concrete surfaces and repairs to the slope protection.

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 2037, with complete replacement of the superstructure required by the year 2042. The cost estimate for emergency deck repairs and replacement is approximately \$7.0 million.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Rehabilitation	0.0	1,633.0	0.0	0.0	0.0
Total	0.0	1,633.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	1,633.0	0.0	0.0	0.0
Total	0.0	1,633.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 FR-NEW STATION - NORTHWEST SASKATOON

Project Status	Open	Year Identified	2010
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Morgan Hackl
Asset Type	Fire Stations	Est. End Date	-

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.

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 (SFD) 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.

For the Northwest Development Area to meet the future response benchmarks, the new 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 new location, an additional station will not be required in the West sector until community development west of Neault Road is planned.

The estimated cost of design, construction of a station in this area and equipment will be \$6,085,000. Design and construction will commence in 2020 with \$300,000 for design and \$500,000 in construction costs to be incurred later in that year. The remaining construction cost of \$4,660,000 will be incurred in 2021 with planned completion by the fall of 2021. The estimated cost of a fully equipped fire apparatus is \$625,000.00. This project will be funded through the 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 fire fighters is \$1,974,800. The impact to the operating costs for the apparatus and building maintenance is \$194,000 per year on a continual basis. One time operating impact of \$90,000 for protective clothing requirements.

2021 (prorated from Sept/2020)

- \$768,000 (FTE)
- \$64,020 (building operations)

2022 and on-going

- \$1,151,900 (FTE)
- \$194,000 (building operations)

Prior Budget Approval

\$650,000 in 2010 for land acquisition.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	0.0	0.0	0.0	312.5	0.0
Design	0.0	0.0	0.0	187.5	0.0
Total	0.0	0.0	0.0	500.0	0.0
FINANCING DETAILS					
OPERATING FUND CONTRIBUTION	0.0	0.0	0.0	500.0	0.0
Total	0.0	0.0	0.0	500.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Building Renos	85.0	0.0	0.0	0.0	0.0
Total	85.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
V & E ASSET DISP/ACQ	85.0	0.0	0.0	0.0	0.0
Total	85.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1934 AF-SPCA BUILDING UPGRADES

Project Status	Open	Year Identified	2017
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Troy LaFreniere
Asset Type	Buildings	Est. End Date	-

Project Description

This project involves planned expenditures for enhanced replacements and repairs to mechanical, electrical and HVAC systems at the SPCA building required beyond the preventative maintenance schedule.

General Comments

In 2005, as part of the City's agreement with the SPCA, the City took ownership of the SPCA building and grounds. Due to the age of the building and increased demand of services provided by the SPCA, repairs are required to ensure the building will meet City standards and to address air quality control issues.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Building Upgrades	100.0	0.0	0.0	0.0	0.0
Total	100.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
RESERVE FOR CAPITAL EXPENDITURES	100.0	0.0	0.0	0.0	0.0
Total	100.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Gord Hundebay
Asset Type	Parks Equipment	Est. End Date	-

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 W.J.L Harvey Park, James Anderson Park, Westmount Park (2 play structures), Albert Park (2 play structures), Victoria Park, and Henry Kelsey Park are examples of priority areas that are scheduled for replacement in 2017.

Special Note

The Canada 150 Community Infrastructure Program in collaboration with the City of Saskatoon will provide a combined funding contribution for the replacement of 8 playground structures in 2016, and 2017. The design phase will be completed in 2016, followed by construction in 2017 of these play structures for a combined total of \$1.0 million.

Prior Budget Approval

\$100,000 for design

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Replace/Rebuild Playstructures	930.0	675.0	675.0	675.0	675.0
Total	930.0	675.0	675.0	675.0	675.0
FINANCING DETAILS					
CANADA 150 INFRA PROGRAM	450.0	0.0	0.0	0.0	0.0
RESERVE FOR CAPITAL EXPENDITURES	480.0	0.0	0.0	0.0	0.0
UNFUNDED RCE	0.0	675.0	675.0	675.0	675.0
Total	930.0	675.0	675.0	675.0	675.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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	Randy Haeusler
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Construction	0.0	800.0	0.0	800.0	0.0
Total	0.0	800.0	0.0	800.0	0.0
FINANCING DETAILS					
UNFUNDED RCE	0.0	800.0	0.0	800.0	0.0
Total	0.0	800.0	0.0	800.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Construction	0.0	150.0	1,350.0	0.0	0.0
Total	0.0	150.0	1,350.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	150.0	1,350.0	0.0	0.0
Total	0.0	150.0	1,350.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

Project Status	Open	Year Identified	2017
Project Type	SUPPORT SYSTEMS	Manager	Craig Senick
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 to making the necessary changes to the 1st (main) floor of City Hall and applicable technology requirements to accommodate the vision of the new Service Saskatoon customer service area. Each Capital Project is integral to the success of establishing the 'one-stop' customer experience at the service level kiosks applying the new Service Saskatoon model of enhanced customer service.

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 2017 funding will be to implement the physical controls needed to support the transition of citizen services at City Hall to one convenient and centralized location aligning with the staffing pillar of Service Saskatoon. Steps will also be taken to establish zones within City Hall and Civic Square East that balances our citizens' right to access their government while respecting employee workspaces.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Corporate Security Plan	150.0	0.0	0.0	0.0	0.0
Total	150.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
AFM - CAPITAL RESERVE	150.0	0.0	0.0	0.0	0.0
Total	150.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1943 AF-EMERGENCY BACK-UP POWER SYSTEM

Project Status	Open	Year Identified	2017
Project Type	SUPPORT SYSTEMS	Manager	Troy LaFreniere
Asset Type	Buildings	Est. End Date	-

Project Description

For the purpose of business continuity, this project is required to ensure sufficient power is available to support core functionality of City Hall.

General Comments

The objective of providing an uninterrupted power supply, for City Hall in particular, is to allow for business continuity for staff to deliver communication and services to citizens, as well as provide a safe and uninterrupted work environment for staff.

Special Note

The Other funding source identified is a funding strategy consists mainly of borrowing and operating contributions. Funding for this project is tracking through the Civic Facilities Funding Plan.

Operating Impact

Operating impacts will be determined based on the type and size of the required back-up power supply.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Power Generator	1,500.0	0.0	0.0	0.0	0.0
Total	1,500.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
OTHER	1,500.0	0.0	0.0	0.0	0.0
Total	1,500.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1944 CP-LEARNING MANAGEMENT SYSTEM

Project Status	Open	Year Identified	2017
Project Type	SUPPORT SYSTEMS	Manager	Paul Ottmann
Asset Type	Software	Est. End Date	-

Project Description

The City depends on qualified and skilled people to deliver on its services to the citizens of Saskatoon every day. A standardized platform for corporate use will drive efficiencies as well as significantly reduce the risk of non-compliance in areas of safety.

General Comments

The 2017 funding will be to purchase and implement a full Learning Management System (LMS) including all other Human Resource Information System (HRIS) Modules.

The proposed approach has a number of mechanisms to track required training for a given position. It will also establish the competencies based on position as well as including: performance, career and succession planning, recruiting, compensation, time and attendance, and an employee database.

Operating Impacts

A corporate wide system will require additional licensing costs in 2018 of \$19,000.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Learning Management System	280.0	0.0	0.0	0.0	0.0
Total	280.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
AFM - CAPITAL RESERVE	75.0	0.0	0.0	0.0	0.0
CP - CAPITAL RESERVE	80.0	0.0	0.0	0.0	0.0
CY CAPITAL RESERVE	50.0	0.0	0.0	0.0	0.0
TU - CAPITAL RESERVE	75.0	0.0	0.0	0.0	0.0
Total	280.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	19.0	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 to making the necessary changes to the 1st (main) floor of City Hall and applicable technology requirements to accommodate the vision of the new Service Saskatoon customer service area. Each Capital Project is integral to the success of establishing the 'one-stop' customer experience at the service level kiosks applying the new Service Saskatoon model of enhanced customer service.

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. 2017 funding includes beginning the initial phase for City Hall 1st floor Service Saskatoon transformation.

Special Note

The Other funding source identified is a funding strategy consists mainly of borrowing and operating contributions. Funding for this project is tracking through the Civic Facilities Funding Plan.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
City Hall (1st Floor) - Service Saskatoon	350.0	0.0	0.0	0.0	0.0
Civic Accommodation	550.0	5,550.0	5,550.0	1,550.0	1,550.0
Reallocations - Service Saskatoon	650.0	0.0	0.0	0.0	0.0
Total	1,550.0	5,550.0	5,550.0	1,550.0	1,550.0
FINANCING DETAILS					
CORPORATE CAPITAL RESERVE	550.0	550.0	550.0	550.0	550.0
OTHER	1,000.0	5,000.0	5,000.0	1,000.0	1,000.0
Total	1,550.0	5,550.0	5,550.0	1,550.0	1,550.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2009
Project Type	SUPPORT SYSTEMS	Manager	Angela Gardiner
Asset Type	Buildings	Est. End Date	-

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 2017, the priority projects for implementation include the following:

- \$75,000 for the Leisure Centre modifications to address deficiencies identified in the barrier free assessment reviews; and
- \$500,000 for curb ramp installations required in locations that support transit

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).

Special Note

The Other funding source identified in this project is the City's matching contribution of \$250,000 for the Public Transit Infrastructure Fund. This funding will be from a reallocation of utility dividend from Building Canada funded utility projects.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Assessments, Repairs & Modifications	75.0	75.0	75.0	0.0	0.0
Audible Pedestrian Signals - New Locations	0.0	50.0	0.0	50.0	0.0
Curb Ramp Installations	500.0	200.0	200.0	200.0	200.0
John Deere Building Accessibility	0.0	0.0	50.0	350.0	0.0
Total	575.0	325.0	325.0	600.0	200.0
FINANCING DETAILS					
OTHER	250.0	0.0	0.0	0.0	0.0
PTIF - FEDERAL	250.0	0.0	0.0	0.0	0.0
RESERVE FOR CAPITAL EXPENDITURES	75.0	0.0	0.0	0.0	0.0
TRAFFIC SAFETY RESERVE	0.0	50.0	0.0	50.0	0.0
UNFUNDED CIVIC BLDGS COMP MNTCE	0.0	0.0	50.0	350.0	0.0
UNFUNDED RCE	0.0	75.0	75.0	0.0	0.0
UNFUNDED TRANSPORTATION INFR EXPANSION	0.0	200.0	200.0	200.0	200.0
Total	575.0	325.0	325.0	600.0	200.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1977 CP-LOCAL AREA NETWORK & DATA SECURITY

Project Status	Open	Year Identified	2009
Project Type	SUPPORT SYSTEMS	Manager	Robert Moncur
Asset Type	Network	Est. End Date	-

Project Description

This project provides for the improved physical and electronic security of Information Technology to ensure that there is no unauthorized access to City servers, network infrastructure, applications and data.

General Comments

The need to improve the security of the computing environment and protect the City applications\data from unauthorized access is based on the City's ever increasing reliance. Upgrades are required to protect against new threat types, increased operations on the Internet, as well as internal threats (either accidental, or malicious).

Details for 2017:

SPAM and virus management software upgrades \$60,000

Server/Network Log monitoring replacement \$40,000

Total \$100,000

Operating Impact

The operating impact from the 2017 plans is as follows:

2018 - SPAM/virus software maintenance \$3,000

2018 - Log monitoring replacement \$3,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Local Area Network & Data Security	100.0	75.0	0.0	0.0	0.0
Total	100.0	75.0	0.0	0.0	0.0
FINANCING DETAILS					
COMPUTER EQUIPMENT REPL RES	100.0	75.0	0.0	0.0	0.0
Total	100.0	75.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	6.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

1994 TU-MARQUIS DR/IDYLVYLD 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 2020. 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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Construction	0.0	0.0	0.0	55,000.0	0.0
Total	0.0	0.0	0.0	55,000.0	0.0
FINANCING DETAILS					
INTERCHANGE LEVY	0.0	0.0	0.0	2,700.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	52,300.0	0.0
Total	0.0	0.0	0.0	55,000.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 MHI are ongoing regarding the timing and financing of design and construction.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Marquis Dr/Hwy 16 Grade Separation	0.0	0.0	0.0	0.0	55,000.0
Total	0.0	0.0	0.0	0.0	55,000.0
FINANCING DETAILS					
INTERCHANGE LEVY	0.0	0.0	0.0	0.0	1,800.0
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	0.0	53,200.0
Total	0.0	0.0	0.0	0.0	55,000.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2034 CY-LAP & NBHD SAFETY IMPLEMENTATION

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

Project Description

This project involves the implementation of recommendations contained in approved Local Area Plans (LAP) and completed Safety Audits.

Local Area Plans Adopted: Safety Audits Completed:

Sutherland (1999)	Pleasant Hill (2005)
Nutana (2001)	King George (2009)
King George (2001)	Nutana (2009)
Caswell Hill (2002)	Sutherland (2010)
Warehouse District (2002)	Mendel Site (2011)
Airport Business Area (2002)	Optimist Park (2011)
Pleasant Hill (2002)	Recessed Doorways (2011)
West Industrial (2004)	
Riversdale (2008)	
City Park (2010)	
Westmount (2011)	
Varsity View (2014)	
Mayfair (2015)	
Kelsey Woodlawn (2015)	

The LAPs for the Meadowgreen and Montgomery Place neighbourhoods are to be completed in 2017. The LAP for the Exhibition neighbourhood will start early 2018.

General Comments

LAPs and Safety Audits contain development and safety recommendations that are intended to improve an existing neighbourhood over the medium to long term based on community input. Each LAP requires temporary resources, usually above normal operating resources, to fulfill the recommendations of each LAP. Some safety recommendations are included within LAPs. This project funds two positions, along with advertising and implementation costs.

The implementation of LAP recommendations sometimes leads to the development of new concept plans and revitalization projects for areas within and between neighbourhood boundaries. These concept plans often contain strategies to deal with the reclamation and redevelopment of contaminated and industrial sites.

As of April 2017, 401 of 579 LAP recommendations have been completed, which includes 167 of 214 safety recommendations.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
LAP Implementation	210.0	210.0	210.0	210.0	210.0
Total	210.0	210.0	210.0	210.0	210.0
FINANCING DETAILS					
RESERVE FOR CAPITAL EXPENDITURES	210.0	0.0	0.0	0.0	0.0
UNFUNDED RCE	0.0	210.0	210.0	210.0	210.0
Total	210.0	210.0	210.0	210.0	210.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 is being constructed as part of the Civic Operations Centre project and is outside the scope of this project.

General Comments

A need for three permanent sites for snow management facilities are required for 2017/2018 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 2021 when the proposed plan for development begins (phase 1 starts with securing the Southeast site, followed by the Northwest, and then the Northeast). The 2018 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

2021 - \$44,300

2022 - \$44,300

2023 - \$44,300

Proposed Rehabilitation Reserve Transfers

2021 - \$15,000

2022 - \$15,000

2023 - \$15,000

Prior Budget Approvals

\$1,110,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
NorthEast Facility Development	0.0	902.0	0.0	0.0	50.0
Northwest Facility Development	0.0	902.0	0.0	50.0	100.0
SouthEast Facility Development	0.0	5,925.0	50.0	100.0	18,500.0
Total	0.0	7,729.0	50.0	150.0	18,650.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	7,729.0	50.0	150.0	18,650.0
Total	0.0	7,729.0	50.0	150.0	18,650.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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.

General Comments

Inspection of river piers are done every five years as per recommendations by National Bridge Inspection Standards.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Inspections - Consultants	0.0	105.0	0.0	0.0	0.0
Total	0.0	105.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	105.0	0.0	0.0	0.0
Total	0.0	105.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Curb Replacement/Rehabilitation	200.0	200.0	200.0	200.0	200.0
Total	200.0	200.0	200.0	200.0	200.0
FINANCING DETAILS					
INFRA RES-TRANSPORTATION	200.0	200.0	200.0	200.0	200.0
Total	200.0	200.0	200.0	200.0	200.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2044 TU-GRAVEL STREETS UPGRADES

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

Project Description

This project facilitates upgrading City gravel streets to a paved road structure and includes the estimated underground infrastructure remediation prior to paving.

General Comments

The current list of outstanding locations includes both residential and industrial gravel streets. All locations are areas that were not paved as part of original development and require funding approval to be included in this program.

Residential locations have been prioritized based on the following criteria:

Priority 1 - gravel streets with paved roadways at each end

Priority 2 - gravel streets with property frontage

Priority 3 - all other, typically side properties leading to a gravel lane

In 2016, adequate funding was allocated to finalize all Priority 1 and 2 residential streets to a paved structure. The remaining gravel street upgrade list consists of Priority 3 residential roadways and all remaining industrial roadways. It is estimated that an additional \$13.4 million in funding is required to upgrade the remaining gravel streets to a paved roadway structure.

Prior Budget Approvals

\$1,539,000 for Local Area Plan Surface Deficiencies

\$8,158,000 for Gravel Streets Upgrades

\$726,000 for Underground Remediation

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Neighborhood Surface Improvements	0.0	1,000.0	1,000.0	1,000.0	1,000.0
Total	0.0	1,000.0	1,000.0	1,000.0	1,000.0
FINANCING DETAILS					
UNFUNDED RCE	0.0	1,000.0	1,000.0	1,000.0	1,000.0
Total	0.0	1,000.0	1,000.0	1,000.0	1,000.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

Project Status	Open	Year Identified	2006
Project Type	REJUVENATION	Manager	John Moran
Asset Type	Buildings(Parks & Open Spaces)	Est. End Date	-

Project Description

This project involves the implementation of the Forestry Farm Park & Zoo Master Plan.

General Comments

Stantec Consulting was contracted in June 2005 to develop a new Master Plan 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. This Master Plan process was approved by City Council in April 2006.

The 2017 budget provides for the upgrades and rebuild of a portion of the Park entrance road.

Operating Impact

2018 - \$10,800 for Park Entry Road (maintenance & replacement reserve)

Prior Budget Approval

\$ 50,000 Design of Park Entry Road

\$100,000 Construction of Park Entry Road

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Aviaries	0.0	50.0	0.0	0.0	0.0
Kinsmen Express Overhaul	0.0	0.0	80.0	0.0	0.0
New Washroom in Zoo	0.0	150.0	0.0	0.0	0.0
Park Entrance Road Rebuild	275.0	425.0	0.0	0.0	0.0
Pathway Improvements - Zoo	0.0	0.0	40.0	0.0	40.0
Phase II Parking Lot	0.0	0.0	0.0	0.0	150.0
Replace Trailer Washrooms - Park & Zoo	0.0	0.0	150.0	0.0	150.0
Walking Pathway for Park & Picnic Sites	0.0	0.0	0.0	0.0	60.0
Total	275.0	625.0	270.0	0.0	400.0
FINANCING DETAILS					
FORESTRY FARM PARK DEVELOPMENT RES	0.0	50.0	0.0	0.0	0.0
FORESTRY FARM PK & ZOO CAPITAL RESERVE	150.0	150.0	120.0	0.0	250.0
RESERVE FOR CAPITAL EXPENDITURES	125.0	0.0	0.0	0.0	0.0
UNFUNDED RCE	0.0	425.0	150.0	0.0	150.0
Total	275.0	625.0	270.0	0.0	400.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	10.8	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, inclusion of a 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.

The Administration is exploring options to attain the remaining \$7.0 million as well as additional funding through the new Green Infrastructure component of the Federal Building Canada funding program.

Operating Impacts

Recovery Park and preliminary feasibility studies indicate a potential \$900,000 operating increase in order for the program to deliver on the required operational success.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Recovery Park	7,000.0	7,000.0	0.0	0.0	0.0
Total	7,000.0	7,000.0	0.0	0.0	0.0
FINANCING DETAILS					
LANDFILL REPLACEMENT RESERVE	1,600.0	0.0	0.0	0.0	0.0
REALLOCATION OF CAPITAL FUNDING	2,700.0	0.0	0.0	0.0	0.0
UNFUNDED LANDFILL REPL	0.0	7,000.0	0.0	0.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	2,700.0	0.0	0.0	0.0	0.0
Total	7,000.0	7,000.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)					
Net Dollar Impact	0.0	900.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2051 US-LANDFILL OPTIMIZATION

Project Status	Open	Year Identified	2011
Project Type	ENVIRONMENTAL PROTECTION	Manager	Scott Theede
Asset Type	Landfill	Est. End Date	-

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Landfill Optimization	0.0	700.0	3,000.0	6,500.0	3,500.0
Landfill Surface Water Management Improvements	100.0	0.0	0.0	0.0	0.0
North Fence Boundary	200.0	0.0	0.0	0.0	0.0
Total	300.0	700.0	3,000.0	6,500.0	3,500.0
FINANCING DETAILS					
LANDFILL REPLACEMENT RESERVE	225.0	700.0	3,000.0	6,500.0	3,500.0
TU - CAPITAL RESERVE	75.0	0.0	0.0	0.0	0.0
Total	300.0	700.0	3,000.0	6,500.0	3,500.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2009
Project Type	SUPPORT SYSTEMS	Manager	Shelley Sutherland
Asset Type	Studies - Non capitalized expenditure	Est. End Date	-

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Property Reassessment	0.0	0.0	100.0	250.0	100.0
Total	0.0	0.0	100.0	250.0	100.0
FINANCING DETAILS					
AFM - CAPITAL RESERVE	0.0	0.0	100.0	250.0	100.0
Total	0.0	0.0	100.0	250.0	100.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2009
Project Type	EQUIPMENT REPLACEMENT	Manager	Bob Howe
Asset Type	Transit Buses	Est. End Date	-

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 \$125,000 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 up to 5 Access Transit coach buses at an estimated cost of \$650,000 was placed and expected for delivery in 2017.

In 2017, Access Transit is planning to purchase 10 buses worth \$1.3 million.

Special Note

The Other funding source identified in this project is the City's matching contribution of \$455,00 for the Public Transit Infrastructure Fund. This funding will be from a reallocation of utility dividend from Building Canada funded utility projects.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Access Transit Bus Replacement	1,300.0	260.0	260.0	260.0	260.0
Total	1,300.0	260.0	260.0	260.0	260.0
FINANCING DETAILS					
ACCESS TRANSIT CAPITAL RESERVE	390.0	250.0	250.0	250.0	250.0
OTHER	455.0	0.0	0.0	0.0	0.0
PTIF - FEDERAL	455.0	0.0	0.0	0.0	0.0
US - CAPITAL RESERVE	0.0	10.0	10.0	10.0	10.0
Total	1,300.0	260.0	260.0	260.0	260.0
Incremental					
Operating Impacts (000's)	Budget	Plan	Plan	Plan	Plan
	2017	2018	2019	2020	2021
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

\$390,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Equipment Purchases	50.0	0.0	50.0	0.0	50.0
Total	50.0	0.0	50.0	0.0	50.0
FINANCING DETAILS					
TRANSIT CAPITAL PROJECTS RESERVE	50.0	0.0	50.0	0.0	50.0
Total	50.0	0.0	50.0	0.0	50.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2100 ACCESS TRANSIT - ADDITIONAL BUSES

Project Status	Open	Year Identified	2009
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Bob Howe
Asset Type	Transit Buses	Est. End Date	-

Project Description

This project provides for the purchase of additional lift-equipped buses used in Saskatoon's Access Transit System.

General Comments

Access Transit will utilize the additional buses to provide additional service hours as its client base grows and to extend the life of the overall fleet. Currently each bus in the fleet travels between 35,000 to 50,000 km per year.

The 2017 funding will be used for an additional bus only if Access Transit Growth report is approved with additional operating funding.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Bus Purchase	130.0	0.0	0.0	0.0	0.0
Total	130.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
ACCESS TRANSIT CAPITAL RESERVE	30.0	0.0	0.0	0.0	0.0
US - CAPITAL RESERVE	100.0	0.0	0.0	0.0	0.0
Total	130.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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.

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

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 2017 are:

Equipment Replacement:

Holiday Park Golf Course:

\$70,000 - Diesel Self-Propelled Fairway Mower

\$80,000 - Irrigation Pumps (3)

Silverwood Golf Course:

\$30,000 - Satellite Irrigation Controller Replacement

Wildwood Golf Course:

\$120,000 - Diesel Self-Propelled Greens-mower (Quantity 3)

Improvements:

\$50,000 - Wildwood Golf Course Master Plan: Tee Box Renovation.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Golf Course Equipment Replacement	300.0	200.0	200.0	210.0	210.0
HPGC Equipment Storage	0.0	0.0	0.0	400.0	0.0
HPGC Parking Lot/Clubhouse Paving	0.0	0.0	0.0	0.0	400.0
WWGC Parking Lot/Cart Path Paving	0.0	300.0	0.0	0.0	0.0
WWGC Tee Box Redesign Plan	50.0	0.0	0.0	0.0	0.0
Total	350.0	500.0	200.0	610.0	610.0
FINANCING DETAILS					
GOLF COURSE CAPITAL RESERVE	350.0	500.0	200.0	610.0	610.0
Total	350.0	500.0	200.0	610.0	610.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2102 CY-SPORTFIELD DEVELOPMENT & IMPROVEMENTS

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Brad Babyak
Asset Type	Parks and Open Spaces	Est. End Date	-

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.

WJL Harvey District Park (2017 & 2018):

The 2017 plan involves improvements to the WJL Harvey South District Park. Multi-purpose field #16 will be converted into a softball diamond.

The 2018 plan involves improvements to the WJL Harvey South District Park. Multi-purpose field #15 will be shifted to the west to remove the desire lines and to make this field safe for use.

Bishop James Mahoney Park (2019):

The 2019 plan involves improvements to the Bishop James Mahoney District Park. The softball diamond in the park will be upgraded to ensure outfield slopes are adjusted to allow for a safe playing surface with proper drainage.

Operating Impact

2018 - \$5,000 for above basic service for WJL Harvey South District Park softball diamond

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Bishop James Mahoney Park	0.0	0.0	345.0	0.0	0.0
WJL Harvey District Park	345.0	350.0	0.0	0.0	0.0
Total	345.0	350.0	345.0	0.0	0.0
FINANCING DETAILS					
PARK ENHANCE RES	345.0	350.0	345.0	0.0	0.0
Total	345.0	350.0	345.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	5.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2114 CY-VICTORIA PARK - UPGRADES

Project Status	Open	Year Identified	2009
Project Type	REJUVENATION	Manager	Brad Babyak
Asset Type	Parks and Open Spaces	Est. End Date	-

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 2017, the community and stakeholders will be re-engaged for updated feedback, and will review the overall park program plan to confirm construction priorities for 2018. This work will be done undertaken with existing operating funds.

The 2018 plan includes the development of a parking lot which will address existing and future parking needs, as well as the need for overflow parking during large special events and festivals.

The 2019 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 2020 plan involves the addition of site furniture and pathway lighting.

Operating Impact

The future operating impact would be \$3,000 for annual site maintenance if this project is funded.

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction - Park	0.0	440.0	400.0	330.0	0.0
Total	0.0	440.0	400.0	330.0	0.0
FINANCING DETAILS					
UNFUNDED RCE	0.0	440.0	400.0	330.0	0.0
Total	0.0	440.0	400.0	330.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2010
Project Type	EQUIPMENT REPLACEMENT	Manager	Earl Warwick
Asset Type	Communication systems	Est. End Date	-

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 2017 capital budget is for the replacement of portable radios, in-car mobile radios and new encryption technology.

Operating Impact

No increase anticipated for 2017.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Equipment Purchases	585.0	325.0	325.0	325.0	325.0
Total	585.0	325.0	325.0	325.0	325.0
FINANCING DETAILS					
POLICE RADIO RESERVE	585.0	325.0	325.0	325.0	325.0
Total	585.0	325.0	325.0	325.0	325.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2130 CY-SATELLITE SKATEBOARD FACILITIES

Project Status	Open	Year Identified	2010
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Nancy Johnson
Asset Type		Est. End Date	-

Project Description

This project involves the design and construction for a quarter-pipe ramp located at the east end of the skate pad. In 2012, the skateboard site was re-located to accomodate an accessible playground and create a better layout of the park amenities within W.W. Ashley District Park.

General Comments

The W.W. Ashley satellite skateboard facility is one of six satellite sites designed for beginner to intermediate skateboarders. The satellite sites compliment the larger city-wide Lions Skate Park in Victoria Park. The addition of a full-width concrete quater-pipe element is being requested by skateboarders to provide more of a challenge. The facility currently features a bank-to-ledge pyramid, flat rail, and a ledge, but is still considered to be too rudimentary by current users.

Operating Impact

\$1,000 for graffiti removal and repairs

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
W.W. Ashley Skate Park Upgrade	80.0	0.0	0.0	0.0	0.0
Total	80.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
DEDICATED LANDS RESERVE	80.0	0.0	0.0	0.0	0.0
Total	80.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	1.0	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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
3rd Avenue: 19th Street Intersection	0.0	0.0	0.0	0.0	100.0
Idylwyld Drive: Bridge to Circle Drive	1,000.0	1,000.0	1,000.0	1,000.0	0.0
Streetscape Rehabilitation Project	1,500.0	1,000.0	0.0	0.0	0.0
Total	2,500.0	2,000.0	1,000.0	1,000.0	100.0
FINANCING DETAILS					
STREETSCAPE RESERVE-BID	2,500.0	2,000.0	1,000.0	1,000.0	100.0
Total	2,500.0	2,000.0	1,000.0	1,000.0	100.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	3.0	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 final phase, planned for 2018, will examine the pedestrian crossing of the railway to improve pedestrian safety, complete the North portion of Central Avenue to 115th Street, and complete the South portions from 107th Street to 109th Street.

Completion of the final phase will depend on funding availability and negotiation with the railway company. The \$3.5 million estimate includes \$400,000 for design.

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 Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Central Avenue	0.0	4,000.0	0.0	0.0	0.0
Total	0.0	4,000.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	4,000.0	0.0	0.0	0.0
Total	0.0	4,000.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017, 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 will be 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.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Building Standards Program Upgrades	100.0	100.0	100.0	0.0	0.0
Customer Service Enhancements	100.0	75.0	75.0	75.0	0.0
Total	200.0	175.0	175.0	75.0	0.0
FINANCING DETAILS					
BLDG PERMITS/INSPECT STAB RESERVE	200.0	175.0	175.0	75.0	0.0
Total	200.0	175.0	175.0	75.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2176 AF-SHAW CENTRE MAJOR REPAIRS

Project Status	Open	Year Identified	2017
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Troy LaFreniere
Asset Type	Leisure Centres	Est. End Date	-

Project Description

This project addresses a number of major repairs required at the Shaw Centre. The scope of the project is:

- Construction of a permanent enclosure and support structure for an existing air handling unit;
- Electrical upgrades which include electrical protection for equipment, and
- Required consulting/project management services.

In addition, funding has been included to complete the necessary reviews and planning required to identify and prioritize outstanding deficiencies/issues. This review will identify any additional repairs along with associated costs to be planned for 2018 and 2019.

General Comments

The air handling unit was installed in 2014. Due to circumstances at the time, the unit was installed on a temporary support structure and was not enclosed. To ensure the longevity and the proper operation and efficiency of the unit, the unit requires a heat controlled environment. The project proposed will provide a permanent support structure for the unit and a permanent enclosure around the unit to ensure that the unit will function as intended.

Through the recent review, completed by Environmental Services, of the electrical load distribution and the power quality, it has been determined that to ensure the life of the program and facility equipment at the Shaw Centre, electrical protection should be installed to reduce the risk of shortened equipment life.

There are a number of outstanding mechanical, electrical and architectural deficiencies/issues that need to be addressed at Shaw Centre in future years, which will be identified and prioritized as part of this project.

Prior Budget Approval

\$892,000 was approved in 2014 for the installation of heating, ventilation and cooling equipment and circulation fans for the Shaw Centre competition pool.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Air Handling Unit Enclosure	1,500.0	0.0	0.0	0.0	0.0
Design	300.0	0.0	0.0	0.0	0.0
Electrical Upgrades	70.0	0.0	0.0	0.0	0.0
Total	1,870.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
CIVIC BLDGS COMPR MTNCE	1,870.0	0.0	0.0	0.0	0.0
Total	1,870.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Design & Constr'n - Civic Leisure Centres	200.0	400.0	500.0	500.0	500.0
Other Civic Property	100.0	1,500.0	100.0	100.0	100.0
Total	300.0	1,900.0	600.0	600.0	600.0
FINANCING DETAILS					
FACILITY SITE REPL RES	300.0	500.0	600.0	600.0	600.0
UNFUNDED FACILITY SITE REPL RES	0.0	1,400.0	0.0	0.0	0.0
Total	300.0	1,900.0	600.0	600.0	600.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2184 US-WASTE CHARACTERIZATION STUDY

Project Status	Open	Year Identified	2010
Project Type	ENVIRONMENTAL PROTECTION	Manager	Amber Weckworth
Asset Type	Studies - Non capitalized expenditure	Est. End Date	-

Project Description

This project involves waste audits and other measurement activities to determine the effectiveness of recycling and organics diversion initiatives as well as the development of strategies to increase diversion.

General Comments

This project includes studying the waste composition before and after the implementation of new programs such as the recycling programs. The 2016 community waste audit was the first ever to measure all waste generated in Saskatoon and informs the development of a comprehensive Waste Diversion Plan. The community waste audit and Waste Diversion Plan were issued as a single contract in 2016 with the work spread out over two years to match available capital funding. The community waste audit (called the Waste Characterization) provides the data foundation for the development of a plan to achieve 70% waste diversion by 2023 (called the Waste Diversion Plan) and this information will be used to inform future, more efficient City waste operations in a Waste Management Master Plan.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Waste Characterization Study	225.0	0.0	0.0	0.0	0.0
Total	225.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
LANDFILL REPLACEMENT RESERVE	225.0	0.0	0.0	0.0	0.0
Total	225.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Water Conservation Study	450.0	468.0	541.0	0.0	0.0
Total	450.0	468.0	541.0	0.0	0.0
FINANCING DETAILS					
WATERWORKS CAPITAL PROJECTS RESERVE	450.0	468.0	541.0	0.0	0.0
Total	450.0	468.0	541.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Water System Assessment	0.0	0.0	0.0	187.0	0.0
Total	0.0	0.0	0.0	187.0	0.0
FINANCING DETAILS					
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	0.0	187.0	0.0
Total	0.0	0.0	0.0	187.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

Project Status	Open	Year Identified	2013
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Reid Corbett
Asset Type	Water Treatment Plant	Est. End Date	-

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.

Special Note

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

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
N.E. Sector Reservoir	0.0	0.0	0.0	4,499.0	19,303.0
Total	0.0	0.0	0.0	4,499.0	19,303.0
FINANCING DETAILS					
BORROWING	0.0	0.0	0.0	2,520.0	7,380.0
OPERATING BUDGET DOWNPAYMENT	0.0	0.0	0.0	280.0	820.0
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	0.0	1,699.0	11,103.0
Total	0.0	0.0	0.0	4,499.0	19,303.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2013
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Reid Corbett
Asset Type	Water Treatment Plant	Est. End Date	-

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Filter Plant Underdrain Upgrade	2,667.0	1,040.0	1,082.0	0.0	0.0
Total	2,667.0	1,040.0	1,082.0	0.0	0.0
FINANCING DETAILS					
WATERWORKS CAPITAL PROJECTS RESERVE	2,667.0	1,040.0	1,082.0	0.0	0.0
Total	2,667.0	1,040.0	1,082.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2224 WWT-LIQUID WASTE HAULERS STATION

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

Project Description

This project includes determining a location, design, and construction of a new liquid waste hauler facility to replace the existing station at the Wastewater Treatment Plant. The new facility will accommodate multiple simultaneous unloads and will be located where truck traffic is in an industrial setting.

General Comments

Over the past five years, there has been significant growth in the number of liquid waste haulers unloading at the Wastewater Treatment Plant. New environmental regulations have affected the process for handling grit. The new facility will be designed to receive/process grit and will be located to reduce increasing truck traffic from residential to industrial areas.

Special Note

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

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Liquid Waste Haulers Station	4,500.0	0.0	0.0	0.0	0.0
Total	4,500.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
BORROWING	4,050.0	0.0	0.0	0.0	0.0
OPERATING BUDGET DOWNPAYMENT	450.0	0.0	0.0	0.0	0.0
Total	4,500.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2013
Project Type	EQUIPMENT REPLACEMENT	Manager	Reid Corbett
Asset Type	Wastewater Treatment Plant	Est. End Date	-

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Expected Upgrades	500.0	520.0	541.0	2,812.0	2,925.0
Total	500.0	520.0	541.0	2,812.0	2,925.0
FINANCING DETAILS					
WASTEWATER TRTMNT CAP RES	500.0	520.0	541.0	2,812.0	2,925.0
Total	500.0	520.0	541.0	2,812.0	2,925.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017 budget request is for further expansion of the broadband wireless communication system along College Drive that connects the traffic management centre with traffic signals and to expand the centralized signal management system further by adding a data collection module.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	150.0	150.0	150.0	230.0	230.0
Total	150.0	150.0	150.0	230.0	230.0
FINANCING DETAILS					
TRANSP INFRAS EXPANSION	150.0	150.0	150.0	230.0	230.0
Total	150.0	150.0	150.0	230.0	230.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

\$635,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Walkway Management	90.0	90.0	90.0	90.0	90.0
Total	90.0	90.0	90.0	90.0	90.0
FINANCING DETAILS					
TRAFFIC SAFETY RESERVE	90.0	90.0	90.0	90.0	90.0
Total	90.0	90.0	90.0	90.0	90.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

\$2,453,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
General Provision	550.0	500.0	500.0	500.0	500.0
Total	550.0	500.0	500.0	500.0	500.0
FINANCING DETAILS					
TRANSP INFRAS EXPANSION	550.0	500.0	500.0	500.0	500.0
Total	550.0	500.0	500.0	500.0	500.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

\$246,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Education Program	50.0	50.0	100.0	0.0	0.0
Total	50.0	50.0	100.0	0.0	0.0
FINANCING DETAILS					
TRAFFIC SAFETY RESERVE	50.0	50.0	100.0	0.0	0.0
Total	50.0	50.0	100.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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	Roxanne Christian
Asset Type		Est. End Date	-

Project Description

This project involves the construction of a new impound lot.

General Comments

The 2018 plan 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
New Impound Lot	0.0	100.0	1,640.0	0.0	0.0
Total	0.0	100.0	1,640.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	100.0	1,640.0	0.0	0.0
Total	0.0	100.0	1,640.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Design	100.0	100.0	100.0	100.0	100.0
Total	100.0	100.0	100.0	100.0	100.0
FINANCING DETAILS					
INFRA RES-WTR & SAN SWR	100.0	100.0	100.0	100.0	100.0
Total	100.0	100.0	100.0	100.0	100.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 southbound structure substructure is planned for 2019 and includes engineering services, spot repairs to concrete surfaces, application of a galvanic protection system to areas exposed to splash or leaking expansion joints and application of silane sealer to the concrete wearing surface. Rehabilitation of the superstructure of this overpass is planned for 2027 and includes engineering services, removal and replacement of concrete wearing surface to the top of the concrete box girders and replacement of the expansion joints.

If a 'Do Nothing' approach were taken with preservation of the southbound superstructure, service life prediction modeling indicates that structural failure, necessitating costly emergency repairs, can be expected to occur by the year 2030, with replacement of most of the superstructure required by the year 2035. The cost estimate for emergency deck repairs and replacement is approximately \$6 million.

Rehabilitation of the northbound structure is planned for 2019 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.

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

\$150,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Repairs to NB structure	0.0	200.0	1,544.0	0.0	0.0
Repairs to SB Structure	0.0	0.0	380.0	0.0	0.0
Total	0.0	200.0	1,924.0	0.0	0.0
FINANCING DETAILS					
BRIDGE MAJOR REPAIR RESERVE	0.0	200.0	1,924.0	0.0	0.0
Total	0.0	200.0	1,924.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

Project Status	Open	Year Identified	2013
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Carla Figg
Asset Type	Buildings	Est. End Date	-

Project Description

Land for three permanent Public Works satellite yard sites is required immediately to facilitate current emergency Water & Sewer operations and Roadways maintenance activities. Once land is secured, funding opportunities for the development of the sites are possible.

General Comments

Funding has been identified in 2017 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.

Special Note

The Other funding source identified for 2017 consists mainly of borrowing and operating contributions and is tracked through the City's Civic Facilities Funding Plan.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Growth Plan Operational Facilities Analysis	200.0	0.0	0.0	0.0	0.0
Northeast PW Yards Development	0.0	1,416.0	0.0	0.0	50.0
Northwest PW Yards Development	0.0	1,416.0	50.0	100.0	2,351.0
Southeast PW Yards Development	0.0	2,950.0	0.0	0.0	0.0
Southwest PW Yards Development	0.0	300.0	0.0	0.0	0.0
Total	200.0	6,082.0	50.0	100.0	2,401.0
FINANCING DETAILS					
OTHER	200.0	0.0	0.0	0.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	6,082.0	50.0	100.0	2,401.0
Total	200.0	6,082.0	50.0	100.0	2,401.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 to be used by Sign Shop for various projects in Detouring, Sign Maintenance and Crosswalk Painting programs.

General Comments

This project is to ensure adequate equipment is in place to cope with the increase in Detouring, Sign Maintenance and Crosswalk Painting programs due to city expansion. The benefit of adding new equipment will increase productivity and improve customer service levels to both internal and external customers.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Sign Shop Equipment Purchase	0.0	50.0	75.0	50.0	75.0
Total	0.0	50.0	75.0	50.0	75.0
FINANCING DETAILS					
TRANSP EQUIP ACQ RESERVE	0.0	50.0	75.0	50.0	75.0
Total	0.0	50.0	75.0	50.0	75.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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-IDYLYLD 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 2018 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Repairs to Overpass	0.0	950.0	0.0	0.0	0.0
Total	0.0	950.0	0.0	0.0	0.0
FINANCING DETAILS					
BRIDGE MAJOR REPAIR RESERVE	0.0	950.0	0.0	0.0	0.0
Total	0.0	950.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017 is required for renovations at the sign shop.

Prior Budget Approvals

\$200,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
General	100.0	100.0	100.0	100.0	100.0
Total	100.0	100.0	100.0	100.0	100.0
FINANCING DETAILS					
TU - CAPITAL RESERVE	100.0	100.0	100.0	100.0	100.0
Total	100.0	100.0	100.0	100.0	100.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2017
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Mitchell Parker
Asset Type		Est. End Date	-

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 2017 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.

Special Note

The internal borrowing of \$1.6 million included in 2017 budget is to accelerate the paved roads and sidewalk preservation program in conjunction with the capital works planned under the Clean Water & Wastewater Fund (CWWF) program. The annual loan repayment of \$355,000 will start in 2018 for 5 years from the Paved Roadways Infrastructure Reserve.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Arterial Road Preservation	5,900.0	5,600.0	5,600.0	5,600.0	5,600.0
Collector Road Preservation	6,080.0	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	11,126.0	10,427.0	10,427.0	10,427.0	10,427.0
Neighbourhood Network Sidewalk Preservation	3,130.0	2,950.0	2,950.0	2,950.0	2,950.0
Primary Network Sidewalk Preservation	1,960.0	1,950.0	1,950.0	1,950.0	1,950.0
Total	32,096.0	30,627.0	30,627.0	30,627.0	30,627.0
FINANCING DETAILS					
BORROWING (INTERNAL) NON-PIL	1,600.0	0.0	0.0	0.0	0.0
PAVED ROADWAYS INFRASTRUCTURE RESERVE	30,496.0	30,627.0	30,627.0	30,627.0	30,627.0
Total	32,096.0	30,627.0	30,627.0	30,627.0	30,627.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017 includes the rehabilitation and/or replacement of safety systems identified and prioritized in the study to the extent of available funding.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Installation/Replacement	400.0	1,200.0	1,200.0	1,200.0	1,200.0
Total	400.0	1,200.0	1,200.0	1,200.0	1,200.0
FINANCING DETAILS					
INFRA RES-TRANSPORTATION	250.0	250.0	250.0	250.0	250.0
TRAFFIC SAFETY RESERVE	150.0	0.0	0.0	0.0	0.0
UNFUNDED TRANSPORTATION INFRA RES	0.0	950.0	950.0	950.0	950.0
Total	400.0	1,200.0	1,200.0	1,200.0	1,200.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2272 WTP - AUXILIARY EQUIPMENT

Project Status	Open	Year Identified	2017
Project Type	EQUIPMENT REPLACEMENT	Manager	Tim Bushman
Asset Type		Est. End Date	-

Project Description

This project provides for the purchase of equipment that meets the capital spending threshold and is not directly plant related.

General Comments

This project includes identifiable fixed assets (Crane and Forklift) that are part of the equipment program.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Avenue H Crane and Fork Lift	160.0	0.0	0.0	0.0	0.0
Total	160.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
WATERWORKS CAPITAL PROJECTS RESERVE	160.0	0.0	0.0	0.0	0.0
Total	160.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2273 TU-108TH ST OVER CIRCLE DRIVE

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 108th Street over Circle Drive overpass.

General Comments

The 108th Street over Circle Drive overpass is a two lane, two span, concrete girder bridge, originally constructed in 1982. The estimated replacement cost for this structure is approximately \$6.8 million.

Rehabilitation of the structure is planned for 2021 and includes engineering services, deep deck repair, corrosion inhibitor, membrane and new asphalt wearing surface, replacement of the expansion joints, lateral stressing of girders, spot repairs to concrete surfaces and application of silane sealer to the walkway.

If a 'Do Nothing' approach were taken with preservation of the superstructure, service life prediction modeling indicates that structural failure can be expected to occur by the year 2034, requiring complete replacement of the superstructure. The cost estimate for deck replacement is approximately \$3.9 million.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Repairs to Overpass	0.0	0.0	0.0	100.0	1,200.0
Total	0.0	0.0	0.0	100.0	1,200.0
FINANCING DETAILS					
BRIDGE MAJOR REPAIR RESERVE	0.0	0.0	0.0	100.0	289.0
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	0.0	0.0	0.0	911.0
Total	0.0	0.0	0.0	100.0	1,200.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2275 WTP - PLANT FACILITY ACCESS UPGRADE

Project Status	Open	Year Identified	2017
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Angela Gardiner
Asset Type		Est. End Date	-

Project Description

This project involves isolation of the plant and across street reservoir from the neighbourhood and construction of infrastructure to control access to the facilities.

General Comments

The project includes closure of Avenue H and 11th street adjacent to the plant /reservoir and the construction of a col-de-sac on Spadina Crescent south of the plant.

The project is directly related to P2020 TU - 17th street Corridor Extension.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
WTP Plant Facility Access Upgrade	0.0	0.0	0.0	0.0	877.0
Total	0.0	0.0	0.0	0.0	877.0
FINANCING DETAILS					
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	0.0	0.0	877.0
Total	0.0	0.0	0.0	0.0	877.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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.

Operating Impact

2019 - \$5,000 for annual maintenance and contribution to reserve should this project be funded in the future.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Parking Lot & Sewer Upgrade	0.0	1,100.0	0.0	0.0	0.0
Total	0.0	1,100.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED CIVIC BLDGS COMP MNTCE	0.0	1,100.0	0.0	0.0	0.0
Total	0.0	1,100.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2298 AF-CAIRNS GRANDSTAND & CLUBHOUSE REPLACEMENT

Project Status	Open	Year Identified	2018
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Troy LaFreniere
Asset Type	Buildings-Sport & Fitness Fac	Est. End Date	-

Project Description

This project involves the demolition of the Hugh Cairns grandstands and clubhouse and the construction of new grandstands and clubhouse building. The new clubhouse will support recreational activities at Cairns Field and the Clarence Downey Speedskating Oval.

General Comments

The original concrete structure was built in 1961. The facility needs significant restoration or replacement to ensure the facility is available and safe for continued use.

The 2018 budget provides for the demolition of the existing structure, site preparation, and the installation of new aluminum grandstands with a capacity of 3,000 seats. The new grandstands would be located along the first and third baselines of Cairns Field. The new clubhouse building will be a single story building, approximately 9,000 square feet, containing public washrooms, team locker rooms, male and female locker rooms including showers, official rooms, concession area, concourse, office, storage and mechanical/electrical rooms. The approximate lifespan of the new grandstands and service building with yearly maintenance is 50 years.

Special Note

An option considered was a renovation/upgrade of the existing concrete grandstand structure and the waterproofing and replacement of the building's roof. The estimated cost was \$3.0 million. Approximate lifespan of waterproofing and roof replacement was 20 years and of seating was 50 years. This option did not include any upgrades to the building except the roof. The cost benefit and lifespan of the proposed project precluded this option.

Operating Impact

2019 - \$40,000 Contribution to Reserve

2019 - \$36,000 Facility Maintenance

2019 - \$20,000 Utilities

Staffing, other operating costs and revenues to be determined. Impacts assumed should this project be funded in the future.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Cairns Grandstand/Clubhouse Replacement	0.0	4,000.0	0.0	0.0	0.0
Total	0.0	4,000.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	4,000.0	0.0	0.0	0.0
Total	0.0	4,000.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	James McDonald
Asset Type	Bus Shelters	Est. End Date	-

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.

Operating Impacts

2018 - \$2,500 for the maintenance and upkeep of the new shelters.

Prior Budget Approvals

\$1,113,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Transit Shelter & Bench Repl Plan	200.0	200.0	200.0	200.0	200.0
Total	200.0	200.0	200.0	200.0	200.0
FINANCING DETAILS					
TRANSIT CAPITAL PROJECTS RESERVE	200.0	200.0	200.0	200.0	200.0
Total	200.0	200.0	200.0	200.0	200.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	2.5	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2318 TR-MAINTENANCE MANAGEMENT SYSTEM

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

Project Description

This project provides for replacement of the existing fleet management computer system.

General Comments

The existing fleet management system is obsolete and does not provide adequate information to properly maintain the fleet. Also the required program/computer support is unavailable. Transit requires a fleet management system that will serve as a decision making tool. The system should include fleet software to manage all predictive, preventive and corrective maintenance activities with complete work order, planning, procurement, inventory, staffing and costing capabilities. As a result this will improve the fleet's availability, longevity and efficiency. This project will also be used to upgrade to the newest version of the fleet management system and includes the costs and staffing associated with this upgrade.

2017 funding request will be used for the implementation of fuel focus module and building an interface between Transit's Trapeze system and Transit's M5 (fleet management) system.

Operating Impact

2018 - \$3,000 for system maintenance agreement on new module.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Transit Maintenance Management System	270.0	0.0	0.0	0.0	0.0
Total	270.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
TRANSIT CAPITAL PROJECTS RESERVE	270.0	0.0	0.0	0.0	0.0
Total	270.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	3.0	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

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Ridership Growth Initiatives	200.0	200.0	200.0	200.0	200.0
Total	200.0	200.0	200.0	200.0	200.0
FINANCING DETAILS					
TRANSIT CAPITAL PROJECTS RESERVE	200.0	200.0	200.0	200.0	200.0
Total	200.0	200.0	200.0	200.0	200.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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	Lynne Lacroix
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 will launch 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.

The sewer line that services the Gordie Howe Campground and Gordon Howe Bowl is 50 years old, deteriorating and requires repair in order to continue to provide and sustain long term use of the campground facility and Gordon Howe Bowl. Emergency repairs to several collapsed segments in this line were completed in 2016. The 2017 budget includes the inspection and repair of the section of sewer line that services the Gordie Howe Campground and lining of the sewer line from the intersection of Schuler Street and Avenue P to the Gordie Howe Campground and from Avenue P to the Saskatoon Minor Football field. This work will add an estimated 50 years to the operational life to the line that services both facilities. The proposed funding for this project is \$100,000 from the Campsite Reserve and \$100,000 from the Reserve for Capital Expenditures, to reflect the facilities that benefit from this refurbishment.

Operating Impact

2019 - \$28,000 Preventative maintenance and reserve contribution for bleachers

Prior Budget Approval

\$100,000 for emergency sewer line repair

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Bleachers	1,500.0	1,000.0	0.0	0.0	0.0
Sewer Line Lining Repair	200.0	0.0	0.0	0.0	0.0
Total	1,700.0	1,000.0	0.0	0.0	0.0
FINANCING DETAILS					
CAMPSITE RESERVE	100.0	0.0	0.0	0.0	0.0
PRIVATE CONTRIBUTIONS	1,250.0	750.0	0.0	0.0	0.0
RESERVE FOR CAPITAL EXPENDITURES	350.0	0.0	0.0	0.0	0.0
UNFUNDED RCE	0.0	250.0	0.0	0.0	0.0
Total	1,700.0	1,000.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	28.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2352 CY-PERMANENT BOAT LAUNCH SITE

Project Status	Open	Year Identified	2009
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Brad Babyak
Asset Type	Buildings	Est. End Date	-

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 is planned for 2016 and, pending appropriate approvals, detailed design is planned for 2017.

Construction is scheduled for 2018 and will include piles to stabilize the launch, an entrance to the site, landscaping and signage.

Operating Impact

2019 - \$5,000 Annual maintenance of site and minor repairs of boat launch (should this project be funded in the future).

Prior Budget Approval

\$165,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Design and Construction	0.0	140.0	0.0	0.0	0.0
Total	0.0	140.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED RCE	0.0	140.0	0.0	0.0	0.0
Total	0.0	140.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2009
Project Type	REJUVENATION	Manager	Brad Babyak
Asset Type	Parks and Open Spaces	Est. End Date	-

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.

Using existing funds, in late 2016 Administration will work with the RM of Corman Park on approval for discretionary use and in early 2017 an 80 acre off-leash dog park will be established, with fencing and on-site amenities.

The 2018 plan includes the development of pathways within the off-leash dog park and the naturalization of uplands.

The 2019 plan includes the development of a primary pathway system and the construction of the south parking lot.

The 2020 plan includes the development of a secondary pathway system, riverbank lookouts, signage, and site amenities such as benches and garbage cans.

The 2021 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

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Construction	0.0	400.0	535.0	460.0	260.0
Total	0.0	400.0	535.0	460.0	260.0
FINANCING DETAILS					
UNFUNDED RCE	0.0	400.0	535.0	460.0	260.0
Total	0.0	400.0	535.0	460.0	260.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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	Linda Rauckman
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Additional Equipment	0.0	0.0	0.0	136.0	0.0
Total	0.0	0.0	0.0	136.0	0.0
FINANCING DETAILS					
PRINTING AND MAIL EQUIP REPL RESERVE	0.0	0.0	0.0	136.0	0.0
Total	0.0	0.0	0.0	136.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2373 FR-REPLACEMENT OF STATION NO. 3

Project Status	Open	Year Identified	2011
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Morgan Hackl
Asset Type	Fire Stations	Est. End Date	February 2019

Project Description

This project provides for the construction of a new fire station to replace existing Fire Station No. 3.

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 (SFD) 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 SFD deployment analysis for the entire city has been studied with the assistance of GIS Mapping. Locations suitable for Station No. 3 and Station No. 5 have been determined. These improvements will provide better overall response time coverage for the south end of the city while remaining focused on SFD's entire city-wide coverage.

The estimated cost of land acquisition, design and construction will be \$6,435,000. Design and construction will commence in 2017 with completion and occupancy by the spring of 2018. Fire Station No. 3 will be a 2 plus bay station. The planned completion date is March 2018.

Special Note

The Other funding source identified for future years is made up of gas tax, borrowing and operating contributions. Funding for Fire Stations is tracked through the City's Civic Facilities Funding plan.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	5,235.0	0.0	0.0	0.0	0.0
Total	5,235.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
OTHER	5,235.0	0.0	0.0	0.0	0.0
Total	5,235.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 FR-APPARATUS REPLACEMENT

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

Project Description

This project provides for the replacement, refurbishment, or addition of major fire fighting apparatus, in accordance with the Capital Reserves Bylaw.

General Comments

The estimate includes the replacement of fire apparatus, rescue vehicle, water rescue apparatus and vehicles have either exceeded their safe serviceable life within our department or are experiencing recurring mechanical problems, making them very inefficient for day to day operations. Estimates for fire apparatus and rescue vehicles are expected to take more than one year before they are delivered. The apparatus identified in 2017 is a fire engine apparatus with an estimated cost of \$627,000 and a department vehicle with an estimated cost of \$24,000 plus an increase for a fire inspector vehicle, \$30,000.

The estimated reserve balance at the end of 2017 is \$1,582,000.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Additional Replacement	30.0	0.0	0.0	0.0	0.0
Fire Apparatus Replacement	651.0	894.0	1,935.0	1,378.0	550.0
Total	681.0	894.0	1,935.0	1,378.0	550.0
FINANCING DETAILS					
FIRE APPARATUS	681.0	894.0	1,935.0	1,378.0	550.0
Total	681.0	894.0	1,935.0	1,378.0	550.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 FR- FIRE STATION NO. 11 - HOLMWOOD

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Morgan Hackl
Asset Type	Fire Stations	Est. End Date	-

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.

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 (SFD) 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 estimated cost of land, design and construction of a station in this area will be \$7,181,000. Land will be purchased in 2018 with a cost of \$871,000. Design and construction will commence in 2022 with \$300,000 for design and \$1,000,000 in construction costs to incur in that year. The remaining construction costs of \$4,160,000 will be incurred in 2023 with planned completion by the fall of 2023. The estimated cost of a fully equipped apparatus is \$850,000.

Special Note

This project will be funded through gas tax, borrowing and operating contributions. Funding for Fire Stations are tracked through the City's Civic Facilities funding plan.

Operating Impact

The station is projected to be completed by the fall of 2022. The annual cost for 20 additional fully-equipped fire fighters is \$1,975,000. The impact to the operating costs for the apparatus and building maintenance is \$194,000 per year on a continual basis. One time operating impact of \$90,000 for protective clothing requirements.

2022 (prorated from September 2022):

\$748,000 (FTE)

\$64,000 (building operations)

2023 (and on-going):

\$1,317,000 (FTE)

\$194,000 building operations

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
New Station - Saskatoon East	0.0	871.0	0.0	0.0	0.0
Total	0.0	871.0	0.0	0.0	0.0
FINANCING DETAILS					
OPERATING FUND CONTRIBUTION	0.0	871.0	0.0	0.0	0.0
Total	0.0	871.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2009
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Earl Warwick
Asset Type	PoliceVehicles	Est. End Date	-

Project Description

This project provides for the expansion of the Police Service vehicle fleet including vehicle and related equipment costs.

General Comments

2017 plans to increase the regular fleet are under review. 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 2017 plan also includes the addition of one specialty vehicle dedicated to the School Resource Officer unit.

Operating Impact

2018 - \$54,000 for fleet requirements

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Fleet Additions	206.0	456.0	170.0	170.0	170.0
Total	206.0	456.0	170.0	170.0	170.0
FINANCING DETAILS					
POLICE CAPITAL RESERVE	206.0	456.0	170.0	170.0	170.0
Total	206.0	456.0	170.0	170.0	170.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	54.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2390 CY-NATURAL AREAS STRATEGY & GREEN STORM WATER MANAGEMENT

Project Status	Open	Year Identified	2009
Project Type	ENVIRONMENTAL PROTECTION	Manager	Don Cook
Asset Type		Est. End Date	-

Project Description

This project will integrate stormwater management, natural areas, and land use planning through a climate change adaptation lens. An overall vision will be developed for natural and naturalized areas along with the necessary strategy, policy, and procedures for the successful conservation and integration of the ecological network into urban development at various scales (city-wide to site). The roles of built and natural (green) infrastructure and the role of the City in providing or facilitating stormwater management solutions will be clarified, and water quality protection and good monitoring practices will be addressed.

General Comments

Phase 1 is funded through prior budget approval and includes:

- Long-term corporate vision, goals, objectives and definitions for Natural Areas and Stormwater Management
- Best practices and policy review
- Baseline inventory and mapping of existing "ecological network" (natural areas and open spaces) and stormwater management infrastructure (engineered and natural)
- Community and stakeholder engagement
- Recommended high-level policy directions
- Natural Area Development and Management Guidelines, including guidelines for natural areas adjacent to development lands

Phase 2 is dependent on the City obtaining a Federal grant through the Federation of Canadian Municipalities (FCM) for infrastructure planning initiatives that address climate change mitigation and/or adaptation. Depending on eligibility and how the matching grant is calculated, the grant could be \$50,000 to \$100,000 and the scope of work will be adjusted accordingly. Phase 2 includes:

- Low Impact Development Guidelines
- Community and stakeholder engagement
- Natural asset valuation framework
- Plan of recommended long-term stormwater infrastructure and ecological network
- Development of detailed policy, process and standards
- Strategy and plan for ongoing communications and education
- Detailed implementation strategy

Prior Budget Approval

\$155,000 - An initial inventory and policy study was completed in 2009 and a Wetland Development Workshop was held in 2012. The policy framework was completed in 2013 and a refined wetland inventory (that included evaluation of wetland significance) was completed in 2015. The remainder of previously-approved budget is being used for the completion of Phase 1.

Special Note

Phase 2 of this project is subject to the City successfully obtaining a Federal grant.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Consultations	100.0	0.0	0.0	0.0	0.0
Total	100.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
FCM	100.0	0.0	0.0	0.0	0.0
Total	100.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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.

Rehabilitation of the substructure is unfunded but would be planned for 2017 and 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 2018.

Proactive rehabilitation of the superstructure is planned for 2021 & 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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Substructure Rehabilitation	0.0	327.0	0.0	0.0	0.0
Superstructure Rehabilitation	0.0	0.0	0.0	0.0	80.0
Total	0.0	327.0	0.0	0.0	80.0
FINANCING DETAILS					
BRIDGE MAJOR REPAIR RESERVE	0.0	0.0	0.0	0.0	80.0
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	327.0	0.0	0.0	0.0
Total	0.0	327.0	0.0	0.0	80.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2019 and includes engineering services, 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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Rehabilitation	0.0	0.0	900.0	0.0	0.0
Total	0.0	0.0	900.0	0.0	0.0
FINANCING DETAILS					
BRIDGE MAJOR REPAIR RESERVE	0.0	0.0	675.0	0.0	0.0
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	0.0	225.0	0.0	0.0
Total	0.0	0.0	900.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 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, 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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Repairs	0.0	0.0	0.0	150.0	1,919.0
Total	0.0	0.0	0.0	150.0	1,919.0
FINANCING DETAILS					
BRIDGE MAJOR REPAIR RESERVE	0.0	0.0	0.0	150.0	1,026.0
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	0.0	0.0	0.0	893.0
Total	0.0	0.0	0.0	150.0	1,919.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2018 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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Repair	0.0	8,304.0	0.0	0.0	0.0
Total	0.0	8,304.0	0.0	0.0	0.0
FINANCING DETAILS					
BRIDGE MAJOR REPAIR RESERVE	0.0	4,847.0	0.0	0.0	0.0
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	3,457.0	0.0	0.0	0.0
Total	0.0	8,304.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2019 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 2030, 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Rehabilitation of NB structure	0.0	0.0	1,306.0	0.0	0.0
Total	0.0	0.0	1,306.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	0.0	1,306.0	0.0	0.0
Total	0.0	0.0	1,306.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2398 TU-ATTRIDGE DR/CIRCLE 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 involves the rehabilitation of the Attridge Drive over Circle Drive overpass.

General Comments

The Attridge Drive over Circle Drive overpass is a six lane, two span, steel girder bridge, originally constructed in 2001. The estimated replacement cost for this structure is approximately \$13.4 million.

Proactive rehabilitation of the structure is planned for 2021 and includes engineering services, removal and replacement of the asphalt wearing surface and membrane, spot repairs to concrete surfaces and repairs to the slope protection.

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 2050, with complete replacement of the superstructure required by the year 2055. The cost estimate for emergency deck repairs and replacement is approximately \$7.06 million.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Deck Resurfacing	0.0	0.0	0.0	100.0	1,500.0
Total	0.0	0.0	0.0	100.0	1,500.0
FINANCING DETAILS					
BRIDGE MAJOR REPAIR RESERVE	0.0	0.0	0.0	100.0	1,500.0
Total	0.0	0.0	0.0	100.0	1,500.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2013
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Todd Grabowski
Asset Type	Overpasses	Est. End Date	-

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. 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.

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. Rehabilitation work planned for 2018 includes engineering services, replacement of expansion joint glands and level nosings, spot repairs to concrete surfaces, grouting the bearings and sanding and repainting the pedestrian railing.

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. 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.

The Campus Drive to Stadium Crescent over College 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 \$1.76 million. Rehabilitation work planned for 2018 includes engineering services, repairs to the north approach walkway, replacement of the expansion joint glands, spot repairs to concrete surfaces and repairs to the deck pedestrian bottom rail.

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Campus Dr. to Stadium Cr. over College Dr.	0.0	98.0	0.0	0.0	0.0
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
Total	0.0	347.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	347.0	0.0	0.0	0.0
Total	0.0	347.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017 but is unfunded and has now been deferred to 2018.

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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Overheight Warning System	0.0	155.0	0.0	0.0	0.0
Total	0.0	155.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	155.0	0.0	0.0	0.0
Total	0.0	155.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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.

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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Substructure Repairs	0.0	164.0	0.0	0.0	0.0
Total	0.0	164.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED BRIDGE MAJOR REPAIR RES	0.0	164.0	0.0	0.0	0.0
Total	0.0	164.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Construction	289.0	289.0	289.0	289.0	289.0
Total	289.0	289.0	289.0	289.0	289.0
FINANCING DETAILS					
BRIDGE MAJOR REPAIR RESERVE	289.0	289.0	289.0	289.0	289.0
Total	289.0	289.0	289.0	289.0	289.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Underground Encroachments Repairs	0.0	100.0	100.0	0.0	0.0
Total	0.0	100.0	100.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED PAVED ROADWAYS INFR RES	0.0	100.0	100.0	0.0	0.0
Total	0.0	100.0	100.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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	Don Cook
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.

Verification of interchanges to be undertaken includes:

- Marquis Drive and Idylwyld Drive
- Marquis Drive and Highway 16
- 22nd Street and Highway 7
- Airport Drive and Circle Drive
- 33rd Street and Circle Drive

Work identified above will be addressed as far as available funding permits.

Prior Budget Approvals

\$760,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Functional Planning Studies	0.0	100.0	0.0	0.0	50.0
Total	0.0	100.0	0.0	0.0	50.0
FINANCING DETAILS					
TRANSP INFRAS EXPANSION	0.0	100.0	0.0	0.0	50.0
Total	0.0	100.0	0.0	0.0	50.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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

Project Status	Open	Year Identified	2009
Project Type	SUPPORT SYSTEMS	Manager	Andrew Hildebrandt
Asset Type	Software	Est. End Date	-

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
System Purchase	0.0	0.0	65.0	65.0	65.0
Total	0.0	0.0	65.0	65.0	65.0
FINANCING DETAILS					
PARKING RESERVE	0.0	0.0	65.0	65.0	65.0
Total	0.0	0.0	65.0	65.0	65.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
8th St & CPR Grade Separation	0.0	0.0	0.0	35,000.0	0.0
Total	0.0	0.0	0.0	35,000.0	0.0
FINANCING DETAILS					
PRIVATE CONTRIBUTIONS	0.0	0.0	0.0	35,000.0	0.0
Total	0.0	0.0	0.0	35,000.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 is ongoing. The study will recommend short and long term improvements and/or replacement of the interchange in the future.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
HWY 11 & HWY 16 Cloverleaf Functional Study	0.0	0.0	0.0	0.0	93,000.0
Total	0.0	0.0	0.0	0.0	93,000.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	0.0	93,000.0
Total	0.0	0.0	0.0	0.0	93,000.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2436 TU-CORRIDOR PLANNING STUDIES

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	David LeBoutillier
Asset Type		Est. End Date	-

Project Description

Corridor planning studies focus on specific transportation problems that affect mobility and accessibility. These studies typically examine the function of an existing roadway corridor involving multiple intersections.

General Comments

Corridor studies involve land use planning to complement the transportation component of the work. Corridor studies in urban locations are typically several kilometers in length and focus on operational issues along the corridor and on various transportation modes including transit, cycling and walking.

The list of locations to be reviewed on an annual basis are prioritized based on collision rates, vehicular delays and coordination with other projects.

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

\$275,000

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Design	100.0	100.0	0.0	0.0	0.0
Total	100.0	100.0	0.0	0.0	0.0
FINANCING DETAILS					
TRANSP INFRAS EXPANSION	100.0	100.0	0.0	0.0	0.0
Total	100.0	100.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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.

Special Note

The Other funding source identified in this project is the City's matching contribution of \$100,000 for the Public Transit Infrastructure Fund. This funding will be from a reallocation of utility dividend from Building Canada funded utility projects.

Prior Budget Approvals

\$470,000

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	200.0	150.0	150.0	150.0	150.0
Total	200.0	150.0	150.0	150.0	150.0
FINANCING DETAILS					
OTHER	100.0	0.0	0.0	0.0	0.0
PTIF - FEDERAL	100.0	0.0	0.0	0.0	0.0
TRAFFIC SAFETY RESERVE	0.0	100.0	100.0	100.0	100.0
UNFUNDED TRAFFIC SAFETY RES	0.0	50.0	50.0	50.0	50.0
Total	200.0	150.0	150.0	150.0	150.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Multi Use 33rd Street Corridor (Warman/Idylwyld)	0.0	500.0	0.0	0.0	0.0
Total	0.0	500.0	0.0	0.0	0.0
FINANCING DETAILS					
TRANSP INFRAS EXPANSION	0.0	500.0	0.0	0.0	0.0
Total	0.0	500.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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 2016 an ITS Strategic Plan was developed, and funding in 2017 will be used to implement recommendations from the plan.

Special Note

The Other funding source identified in this project is the City's matching contribution of \$75,000 for the Public Transit Infrastructure Fund. This funding will be from a reallocation of utility dividend from Building Canada funded utility projects.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Feasibility Study	150.0	200.0	200.0	200.0	200.0
Total	150.0	200.0	200.0	200.0	200.0
FINANCING DETAILS					
OTHER	75.0	0.0	0.0	0.0	0.0
PTIF - FEDERAL	75.0	0.0	0.0	0.0	0.0
TRANSP INFRAS EXPANSION	0.0	200.0	200.0	200.0	200.0
Total	150.0	200.0	200.0	200.0	200.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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.

Special Note

The Other funding source identified in this project is tracked through Civic Facilities Funding Plan.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	1,000.0	500.0	1,500.0	0.0	0.0
Total	1,000.0	500.0	1,500.0	0.0	0.0
FINANCING DETAILS					
OTHER	1,000.0	500.0	0.0	0.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	0.0	1,500.0	0.0	0.0
Total	1,000.0	500.0	1,500.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 actions.

General Comments

The Active Transportation Plan was adopted in 2016 and the plan identified 80 action items. A five-year action plan has been prepared that outlines the immediate priorities for implementation.

The 2017 Budget includes the following actions to be undertaken through this project:

- 1) Provide overall project coordination.
- 2) Deliver cycling education programs and promotions (Learn to Ride Safe, Cycling Guide, Downtown Bike Friendly).
- 3) Maintain and evaluate the Protected Bike Lane Demonstration Project.
- 4) Plan and design the first stage of the All Ages & Abilities bicycle network.
- 5) Establish an Active Transportation Events Community Fund to support AT promotion events through community partners.

Active Transportation infrastructure for 2017 has been identified through separate capital projects including:

CP0948 - New Sidewalks & Pathways

CP1963 - Accessibility (sidewalk ramps and audible signals)

CP1504 - Neighborhood Traffic Review - Permanent Installations

CP2447 - 33rd Street Multi-use Corridor

CP2550 - Safety Pathway

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
AT Plan Implementation	500.0	1,250.0	1,250.0	1,250.0	1,250.0
Total	500.0	1,250.0	1,250.0	1,250.0	1,250.0
FINANCING DETAILS					
ACTIVE TRANSPORTATION RESERVE	500.0	500.0	500.0	500.0	500.0
UNFUNDED ACTIVE TRANSPORTATION RESERVE	0.0	750.0	750.0	750.0	750.0
Total	500.0	1,250.0	1,250.0	1,250.0	1,250.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2469 CY-PERMANENT WASHROOMS - SPECIAL USE PARKS

Project Status	Open	Year Identified	2011
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Brad Babyak
Asset Type	Buildings	Est. End Date	-

Project Description

This project involves the construction of a permanent year-round washroom in a Special Use park.

General Comments

There is a program need to provide washrooms in the Special Use parks to support year-round activities at the riverbank parks and along the Meewasin Valley Authority (MVA) trail system.

The popularity of riverbank parks used by citizens and visitors continues to grow. This facility is needed by park patrons as well as the public attending the numerous festivals and special events that take place in the Special Use parks year round. The location for a new washroom will be strategically located along the MVA trail system in an area that will support or enhance existing and future programming opportunities that take place at riverbank parks.

The 2019 plan includes the completion of a detailed design and construction of a permanent year-round washroom facility.

Operating Impact

Operating impacts for site maintenance will be determined as specific features of the facility are determined.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Special Use Park	0.0	0.0	570.0	0.0	0.0
Total	0.0	0.0	570.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED RCE	0.0	0.0	570.0	0.0	0.0
Total	0.0	0.0	570.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2471 CY-KINSMEN PARK & AREA - MASTER PLAN

Project Status	Open	Year Identified	2011
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Brad Babyak
Asset Type	Buildings(Parks & Open Spaces)	Est. End Date	-

Project Description

This project involves the development and implementation of the Kinsmen Park & Area Master Plan.

General Comments

The Master Plan set up a process to renovate this site in order to create a primary civic activity-node that is place-specific, memorable and enjoyable for all ages. There is a focus on children's programming and play and it will be an activity generator for people of all ages. The functional program for Kinsmen Park & Area will consider users City-wide, while continuing to support local communities and the growing downtown population.

The Master Plan integrates activities on both sides of Spadina Crescent, including Kinsmen Park, the existing Mendel building and grounds, and the Shakespeare on the Saskatchewan site. The fully connected site will address issues around safety, ease of access for all and traffic movement.

In 2016, funding was approved for the detailed design and construction of the festival site. Design, final approvals, tendering and construction began in 2016 and will be completed in 2017.

Concession Building Expansion

The 2018 plan proposes that the existing concession building be renovated, winterized, and expanded to support year-round activity and programming in the park. Potential programming could include a warm-up area for winter park users, concession service, multi-purpose programming space (meeting room, event office, special events), and public washrooms.

Prior Budget Approval

\$940,000 for Site Improvements and Kinsmen Festival Site Construction

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Concession Building	0.0	2,880.0	0.0	0.0	0.0
Total	0.0	2,880.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	2,880.0	0.0	0.0	0.0
Total	0.0	2,880.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2012
Project Type	REJUVENATION	Manager	Brad Babyak
Asset Type	Parks and Open Spaces	Est. End Date	-

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 2015, Pierre Radisson District Park became the home of Saskatoon's second cricket pitch, as demand for the sport continues to increase. In 2016, Pierre Radisson also became the home of a 2.99 acre off-leash dog park.

The proposed phasing consists of:

2018 - Detailed design for Pierre Radisson Park

2019 - Survey and site analysis for Henry Kelsey Park North and construction of Pierre Radisson Park Phase 1

2020 - Detailed design for Henry Kelsey Park North and construction of Pierre Radisson Park Phase 2

2021 - Survey & site analysis for Scott Park and construction of Henry Kelsey Park Phase 1

Prior Budget Approval

\$50,000 Public consultations & park program review, survey & site analysis for Pierre Radisson Park

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	0.0	0.0	1,664.0	1,664.0	2,214.0
Detailed Design	0.0	70.0	0.0	86.0	0.0
Survey & Site Analysis	0.0	0.0	26.0	0.0	26.0
Total	0.0	70.0	1,690.0	1,750.0	2,240.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	0.0	1,690.0	1,750.0	2,240.0
UNFUNDED RCE	0.0	70.0	0.0	0.0	0.0
Total	0.0	70.0	1,690.0	1,750.0	2,240.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	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 located in a district park that may include a leisure pool, walking track, fitness area, gymnasium and multi-use space. The facility would be adjacent to City-wide outdoor sportsfields located in the district park.

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 completed in 2015. 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 future high schools' construction projects.

Total cost will be \$40 million over 3 years, with the final \$20 million phase of construction targeted to be completed in 2022.

Operating Impact

The operating impact for 2022 and 2023 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
New Recreation Complex	0.0	0.0	0.0	3,500.0	17,500.0
Total	0.0	0.0	0.0	3,500.0	17,500.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	3,500.0	17,500.0
Total	0.0	0.0	0.0	3,500.0	17,500.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2012
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Earl Warwick
Asset Type	Building Contents	Est. End Date	-

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.

2017 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 2017.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Furniture Replacement	50.0	50.0	50.0	50.0	50.0
Total	50.0	50.0	50.0	50.0	50.0
FINANCING DETAILS					
POLICE FAC RENOVATION RES	50.0	50.0	50.0	50.0	50.0
Total	50.0	50.0	50.0	50.0	50.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2014
Project Type	EQUIPMENT REPLACEMENT	Manager	Earl Warwick
Asset Type	Police Equipment	Est. End Date	-

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 2017 project is for funding to replace TSU and K-9 equipment.

Operating Impact

No increase anticipated for 2017.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Equipment Purchase	99.0	74.0	120.0	428.0	0.0
Total	99.0	74.0	120.0	428.0	0.0
FINANCING DETAILS					
POLICE OPER EQUIP & TECH RES	99.0	74.0	120.0	428.0	0.0
Total	99.0	74.0	120.0	428.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2014
Project Type	EQUIPMENT REPLACEMENT	Manager	Earl Warwick
Asset Type	Police Equipment	Est. End Date	-

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 2017 project calls for funding to support the purchase of improved in-car patrol firearms.

Operating Impact

No increase anticipated for 2017. Future operating impacts are under review.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
EQ EXP - Carbines	200.0	0.0	0.0	0.0	0.0
Equipment Purchase	115.0	0.0	0.0	0.0	0.0
Total	315.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
POLICE OPER EQUIP & TECH RES	315.0	0.0	0.0	0.0	0.0
Total	315.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017 project includes funding to support several multi-year projects, in-car notebook replacement, network server replacement, dictation to text laptop replacement and a Technological Services Project Administrator.

Future year projects include replacement of desk top computers, the dictation system, network upgrades and various police operations software.

Operating Impact

Annual software maintenance costs anticipated to increase by \$0 in 2017 and \$35,000 in 2018.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Equipment Purchase	924.0	814.0	399.0	1,307.0	827.0
Total	924.0	814.0	399.0	1,307.0	827.0
FINANCING DETAILS					
POLICE OPER EQUIP & TECH RES	924.0	814.0	399.0	1,307.0	827.0
Total	924.0	814.0	399.0	1,307.0	827.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	35.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2504 FR-NEW EQUIPMENT

Project Status	Open	Year Identified	2012
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Glenn Ledray
Asset Type	Fire Apparatus	Est. End Date	-

Project Description

This project provides the addition of major fire fighting apparatus or equipment to the overall base.

General Comments

The estimate includes the addition of fire apparatus, vehicles and water rescue apparatus.

For 2017 the equipment identified is:

- Mobile Emergency Command Centre, (MECC) - Total Cost \$620,000. The fire department has allocated \$320,00 in 2016 from reserves. In 2017, Police and Transportation and Utilities are allocating \$200,000 from reserves in total. The MECC will be purchased and outfitted with the infrastructure to meet the needs of the corporation. Fire will assume responsibility and servicing of the equipment.

- Dangerous Goods Truck with an estimated cost of \$390,000. This truck will be support the needs of responding to incidents that have been identified to pose a risk to the residents and businesses within the city.

The estimated reserve balance at the end of 2017 is \$365,700.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Fire New Equipment	390.0	0.0	0.0	0.0	0.0
Mobile Emergency Command Centre	200.0	0.0	0.0	0.0	0.0
Total	590.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION EXTENSION RES	25.0	0.0	0.0	0.0	0.0
FIRE - CAPITAL RESERVE	390.0	0.0	0.0	0.0	0.0
POLICE OPER EQUIP & TECH RES	100.0	0.0	0.0	0.0	0.0
TU - CAPITAL RESERVE	50.0	0.0	0.0	0.0	0.0
WASTEWATER TRTMNT CAP RES	13.0	0.0	0.0	0.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	12.0	0.0	0.0	0.0	0.0
Total	590.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2505 FR- STATION NO. 4 AND 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 construction of Fire Station No. 4 with the inclusion of the Maintenance / Mechanical Division. This will be located in the North Industrial area close to the current Fire Station No. 4 near Faithfull Avenue and Circle Drive.

General Comments

The mechanical building is unable to service the fire department's fleet of apparatus. The requirements are for 3 service bays, including a lift. The north end location will be in close proximity to suppliers, better access and location for fire apparatus to locate to, and operate on a functional piece of property.

The estimated cost of land, design and construction of a station in this area would be \$10.0 million. Construction would commence in 2020.

Operating Impacts

There will be no increase in operating costs for this project.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Construction	0.0	0.0	0.0	10,000.0	0.0
Total	0.0	0.0	0.0	10,000.0	0.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	0.0	0.0	10,000.0	0.0
Total	0.0	0.0	0.0	10,000.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2507 FIRE-BUSINESS CONTINUITY EMO

Project Status	Open	Year Identified	2017
Project Type	SUPPORT SYSTEMS	Manager	Ray Unrau
Asset Type	EMO equipment	Est. End Date	August 2018

Project Description

This project provides for the business continuity for the City of Saskatoon as coordinated through the Emergency Measures Division.

General Comments

This project is to address a number of needs within the Emergency Measures Organization. Emergency Planning continues to develop into an important division within the City of Saskatoon. Currently the division operates with the EMO Director, EMO Coordinator, and an assistant. As EMO develops into a more corporate model the division is seeing more opportunities. EOC (Emergency Operation Center) training of civic department staff has been a priority and will continue into 2017. Increased use of the Command Platform at incidents and major events has become a common step in managing large incidents/ events. Business partners and stakeholders continue to reach out to EMO for guidance in Emergency Planning and training scenarios. Currently EMO is unable to meet many requests. Coupled with this is lost opportunities for sponsorship from these partners in our community. ESS continues to be a large commitment for EMO and Community Services.

The Strategic Risk Assessment conducted by PwC in 2015 ranked the risk that the City is not prepared for business interruption/ emergency as a high risk, and an internal audit of business continuity is currently planned for 2017. Dedicated resources are required to establish and implement business continuity and disaster recovery plans and processes based on the findings of the internal audit.

The estimated cost is \$150,000.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Design	0.0	150.0	0.0	0.0	0.0
Total	0.0	150.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	150.0	0.0	0.0	0.0
Total	0.0	150.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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- REPLACEMENT OF STATION NO. 5

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 (SFD) 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 location for the fire station will be identified in 2017. 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.

The design and construction of Fire Station No. 5 will commence in 2017 and be completed by the spring of 2019. The estimated costs in 2017 are \$500,000 for design, with the remaining \$6,500,000 for construction costs in 2018. Fire Station No. 5 will be a 3 bay, 2 deep, station.

Special Note

The Other funding source identified for future years is made up of gas tax, borrowing and operating contributions. Funding for Fire Stations is tracked through the City's Civic Facilities Funding plan.

Operating Impact

2019 - Building maintenance, operating and lease costs of \$100,000.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Design & Construction	500.0	6,500.0	0.0	0.0	0.0
Total	500.0	6,500.0	0.0	0.0	0.0
FINANCING DETAILS					
OTHER	500.0	6,500.0	0.0	0.0	0.0
Total	500.0	6,500.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	100.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2514 AF-CIS SYSTEM

Project Status	Open	Year Identified	2017
Project Type	SUPPORT SYSTEMS	Manager	Shelley Sutherland
Asset Type	Software	Est. End Date	-

Project Description

This project is to provide for the evaluation of our current Customer Information System (CIS) from both a business and technical perspective to develop a plan, roadmap and business case detailing the future direction to take with our CIS system in relation to Service Saskatoon.

General Comments

CIS was implemented in 2000 for utility and property taxes and is now 16 years old and is expected to have a useful life of approximately 25 years.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
System Design	150.0	0.0	0.0	0.0	0.0
Total	150.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
ELECTRICAL DISTRIBUTION REPLACEMENT RES	75.0	0.0	0.0	0.0	0.0
WASTEWATER TRTMNT CAP RES	37.0	0.0	0.0	0.0	0.0
WATERWORKS CAPITAL PROJECTS RESERVE	38.0	0.0	0.0	0.0	0.0
Total	150.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2515 AF-MULTI-YEAR BUSINESS PLAN AND BUDGET

Project Status	Open	Year Identified	2017
Project Type	SUPPORT SYSTEMS	Manager	Clae Hack
Asset Type		Est. End Date	-

Project Description

This project is developed in order to support the transition to Multi-Year Budgeting beginning in 2019.

In May 2016, the Governance and Priorities Committee received an overview of multi-year business planning and budgeting. Fully integrated multi-year business plans and budgets can be very useful in terms of helping cities achieve long-term, strategic objectives, and more short-term operational improvements.

General Comments

This project would cover off public engagement, updating of the strategic plan, formation of a committee to lead the process and change management, update the budgeting software to accommodate multi-year budgeting and revamping the budget book to present the information in a clear and concise manner.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Multi-Year Business Plan and Budget	650.0	0.0	0.0	0.0	0.0
Total	650.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
RESERVE FOR CAPITAL EXPENDITURES	650.0	0.0	0.0	0.0	0.0
Total	650.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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: \$150,000

-Develop business continuity roadmap for critical applications that are vital for the operation of the City.

Enterprise Asset Management Strategy: \$125,000

-Streamline the management of City's technology assets thereby improving efficiency and reducing the cost of supporting the applications.

Enterprise Architecture Strategy: \$150,000

-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: \$100,000

-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: \$125,000

-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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Capacity and Innovation	450.0	200.0	0.0	0.0	0.0
Total	450.0	200.0	0.0	0.0	0.0
FINANCING DETAILS					
C.I.S. DEVELOPMENT RESERVE	450.0	200.0	0.0	0.0	0.0
Total	450.0	200.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2517 CP-CITY OF SASKATOON BRAND DEVELOPMENT

Project Status	Open	Year Identified	2017
Project Type	SUPPORT SYSTEMS	Manager	Carla Blumers
Asset Type		Est. End Date	-

Project Description

As the City of Saskatoon continues to evolve, the corporation needs to develop a more comprehensive brand strategy to ensure citizens are aware of the services, programs, and facilities provided by the City.

General Comments

Administration will focus on developing three aspects of the corporate brand strategy resulting in the following deliverables:

- Brand Framework (Inventory and Mapping) ñ A detailed inventory of all the corporationsí sub-brands will be completed and mapped into a brand organizational chart. The chart will help identify unnecessary sub-brands and any gaps where new sub-brands should be considered. The final brand framework will define the relationships of the City of Saskatoonís corporate brand to various programs, services and facilities; and prescribe a consistent way of treating them.
- Brand Story (Advantage, Personality, Message and Promise) ñ Citizen and stakeholder feedback will be key to developing the brand story. A detailed engagement plan will be developed to capture citizen expectations of their municipal government.
- Updated Corporate Brand and Visual Identity Standards ñ The standards document will be updated to ensure the consistent use of the brand story and logo. This document will outline the proper use of the logo including the size, colour, placement and fonts. It also sets the standards on how it is applied to business cards, letterhead, signage, uniforms, email signatures, websites, and advertisements.
- The City of Saskatoon brand will be first used for the Recruitment & Retention Marketing Strategy.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Brand & Brand Architecture Strategy	0.0	70.0	0.0	0.0	0.0
Total	0.0	70.0	0.0	0.0	0.0
FINANCING DETAILS					
UNFUNDED RCE	0.0	70.0	0.0	0.0	0.0
Total	0.0	70.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2518 PUBLIC SPACE RECYCLING

Project Status	Open	Year Identified	2017
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Amber Weckworth
Asset Type		Est. End Date	-

Project Description

In order to continue striving towards the waste reduction target, the addition of public space recycling containers installed in key public areas will aid in reducing materials sent to our landfill.

General Comments

In partnership with the Facilities and Parks Divisions, the City will install self-servicing recycling beverage containers as well as paper recycling bins in special use parks and sporting facilities, business improvement districts as well as President Murray Park which will be a Pet Waste Container Pilot.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Public Space Recycling	118.0	0.0	0.0	0.0	0.0
Total	118.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
RESERVE FOR CAPITAL EXPENDITURES	118.0	0.0	0.0	0.0	0.0
Total	118.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 Phase 1 of the engagement and awareness plan and funding of initiatives which respond to needs identified through this community engagement. Funding these small-scale community initiatives is intended to build momentum towards completing the draft strategy.

Engagement and awareness measures will first include a gap analysis of the winter needs of different populations in relation to existing City programs/assets and community awareness of these. Further measures include an online resource hub, events, an e-newsletter and social media campaign.

The small-scale initiatives will be driven by the community. Funding requests and grants will be administered by the Community Development Section of the Community Services Department.

The proposed funding for 2017 consists of:

\$50,000 for Phase 1 engagement and awareness plan

\$35,000 for small-scale community initiatives

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Winter City	85.0	0.0	0.0	0.0	0.0
Total	85.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
RESERVE FOR CAPITAL EXPENDITURES	85.0	0.0	0.0	0.0	0.0
Total	85.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2523 CP-CITIZEN WEB STOREFRONT AND CITY INTRANET

Project Status	Open	Year Identified	2017
Project Type	SUPPORT SYSTEMS	Manager	Paul Ottmann
Asset Type	Software	Est. End Date	-

Project Description

This projects initiatives are to partner with internal businesses to leverage technology required to deliver on the City's goal of Service Saskatoon and emerging trends to increase productivity and service delivery. The City's intranet and current website storefront have opportunity to enhance the citizens experience.

General Comments

To achieve the vision and strategy set by the Corporation, the following specific areas are targeted in 2017, supporting the third pillar of Service Saskatoon - systems:

Web Storefront: \$100,000

-To improve Citizen's experience with the City's website, developing a web storefront that will integrate a number of services to provide citizens access to multiple services with a single sign-on will be implemented. This will include a single payment process and create a shopping cart experience for the Citizens.

City Sharepoint/Intranet: \$450,000

-Delivery of standard templates, metadata for cataloguing and easy access of data, training and security will be established and a common platform will be investigated for internal communications.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Web Storefront and SharePoint	550.0	0.0	0.0	0.0	0.0
Total	550.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
C.I.S. DEVELOPMENT RESERVE	550.0	0.0	0.0	0.0	0.0
Total	550.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2524 CP-NAMING AND SPONSORSHIP

Project Status	Open	Year Identified	2017
Project Type	STUDY/PLANNING	Manager	Jill Cope
Asset Type		Est. End Date	-

Project Description

As the City of Saskatoon continues to grow, investigating alternative sources of revenues to reduce reliance on residential property taxes is a key strategic goal. The purpose of this project is to provide an update on the review of the City of Saskatoon's (City) current practices related to naming rights, sponsorship, advertising, and donations.

General Comments

In late 2015, an administrative steering committee comprised of staff from various Divisions began to examine the City's process/policies for naming rights, sponsorships, advertising, and donations. The goals of the review were to identify ways to improve the process, explore opportunities for the City to generate additional sources of revenue for capital and operating, look for efficiencies through bundling of opportunities, and to look at a more centralized or coordinated approach.

City Council at its January 25, 2016 meeting resolved "that the matter of selling naming rights for bridges and any municipal facilities as well as potential for advertising or sponsorship opportunities be referred back to the Administration to further explore options."

The Administration has prepared an interim report to outline risks and opportunities, to identify proposed high level guiding principles, identify potential new opportunities, and to get direction for proceeding in each of the categories under review. This project is the continuation of the work required.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Naming and Sponsorship	50.0	0.0	0.0	0.0	0.0
Total	50.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
RESERVE FOR CAPITAL EXPENDITURES	50.0	0.0	0.0	0.0	0.0
Total	50.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2011
Project Type	SUPPORT SYSTEMS	Manager	Brad Babyak
Asset Type	Parks and Open Spaces	Est. End Date	-

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 2017 budget involves the expansion of Avalon Dog Park. The Avalon Off-leash Dog Park is an established dog park and is one of the busiest in the city. The key objective is to further complement the existing dog parks as well as improve accessibility so more citizens and their pets can enjoy the dog park. This expansion will include the development of 1.9 acres of land to the west of the current dog park, as well as accessible pathways, gates, and site amenities.

The 2018 and 2020 plans involve the development of new neighbourhood dog parks.

Operating Impacts

\$8,000 per new Off-leash Dog Park for annual site maintenance (grass cutting, garbage and snow removal, and sign, parking lot and fence maintenance).

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Dog Park Development & Upgrades	250.0	110.0	0.0	110.0	0.0
Total	250.0	110.0	0.0	110.0	0.0
FINANCING DETAILS					
ANIMAL SERVICES RESERVE	0.0	60.0	0.0	60.0	0.0
RESERVE FOR CAPITAL EXPENDITURES	250.0	0.0	0.0	0.0	0.0
UNFUNDED RCE	0.0	50.0	0.0	50.0	0.0
Total	250.0	110.0	0.0	110.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	8.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2531 AF-PORTFOLIO MANAGEMENT SYSTEM REPLACEMENT

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

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Portfolio Management System Repl	0.0	0.0	0.0	300.0	0.0
Total	0.0	0.0	0.0	300.0	0.0
FINANCING DETAILS					
AFM - CAPITAL RESERVE	0.0	0.0	0.0	300.0	0.0
Total	0.0	0.0	0.0	300.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2014
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Lesley Anderson
Asset Type		Est. End Date	-

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

In 2012, City Council approved Capital Project 2547, the Integrated Growth Plan (IGP), in principle. It was comprised of land use, design, streetscaping, and transportation strategies to guide the growth of Saskatoon to a population of 500,000 in ways that match the vision of our citizens expressed through Saskatoon Speaks. In 2013, the Growing Forward! Shaping Saskatoon project began, which included the development of a Rapid Transit Business Case outlining rapid transit corridor alignment, transit technology, a long term transit plan, corridor redevelopment, and a core bridge strategy. The Growth Plan to Half a Million was approved in principle by City Council in April 2016.

The current request for funds in this project will provide the necessary internal staff to facilitate the work funded by the Public Transit Infrastructure Fund (PTIF), and to develop the full implementation plan for the overall project. The Growth Plan will deliver a 10 Year Action Plan in early 2017, which will lay out the next major components in the implementation of the project's core initiatives.

The Growth Plan to Half a Million Implementation project will consist of the following components:

Long Term Transit Plan Implementation:

This component involves the development in 2016, 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 2017 and 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 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 areas identified in the Growth Plan, beginning in 2017/2018. 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 2019/2020 with Phase 2 of PTIF funding.

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 2019/2020 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 all project components as implementation begins.

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.

Urban Planning and Development

Approved 2017

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).

Operating Impact

There will be an increased cost in 2018 for Transit in the amount of \$40,500 due to additional shelter maintenance costs, data charges for buses, and software maintenance charges.

Special Note

The Other funding source identified in this project is the City's matching contribution of \$5.25 million for the PTIF. This funding will be from a reallocation of utility dividend from Building Canada funded utility projects.

Prior Budget Approvals

\$ 600,000 - Implementation Planning and Design

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Long Term Transit Plan	2,850.0	115.0	120.0	120.0	120.0
Policy & Plan Development	475.0	510.0	250.0	260.0	260.0
Project Coordination	275.0	275.0	290.0	310.0	310.0
Rapid Transit Development	6,450.0	230.0	1,350.0	7,300.0	250.0
Secondary Plan Process & Corridor Redevelopment	1,200.0	345.0	710.0	460.0	470.0
Total	11,250.0	1,475.0	2,720.0	8,450.0	1,410.0
FINANCING DETAILS					
OTHER	5,250.0	0.0	0.0	0.0	0.0
PTIF - FEDERAL	5,250.0	0.0	0.0	0.0	0.0
RESERVE FOR CAPITAL EXPENDITURES	750.0	0.0	0.0	0.0	0.0
UNFUNDED MAJOR PROJECTS	0.0	0.0	1,100.0	7,000.0	0.0
UNFUNDED RCE	0.0	1,475.0	1,620.0	1,450.0	1,410.0
Total	11,250.0	1,475.0	2,720.0	8,450.0	1,410.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	40.5	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 V. Future phases could extend to Central Avenue as significant segments of a trail system already exist.

Phase I: In progress

Phase II: Avenue D to Avenue H (2017)

Phase III: Avenue H to Avenue L (2018)

Phase IV: Avenue L to Avenue P (2019)

Phase V: Avenue P to Avenue W (2020)

Operating Impact

2019 - The future operating impact would be \$2,100 for snow clearing (should this project be funded).

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Construction	0.0	400.0	400.0	400.0	400.0
Total	0.0	400.0	400.0	400.0	400.0
FINANCING DETAILS					
UNFUNDED ACTIVE TRANSPORTATION RESERVE	0.0	400.0	400.0	400.0	400.0
Total	0.0	400.0	400.0	400.0	400.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2013
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Syed Naqvi
Asset Type	Water Treatment Plant	Est. End Date	-

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.

Operating Impact

The operating and maintenance cost will be reduced and pumping capacity of WTP will be increased to 300 MLD.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Clarifier Tube Settlers	0.0	0.0	9,734.0	0.0	0.0
Total	0.0	0.0	9,734.0	0.0	0.0
FINANCING DETAILS					
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	9,734.0	0.0	0.0
Total	0.0	0.0	9,734.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2013
Project Type	EQUIPMENT REPLACEMENT	Manager	Larry Schultz
Asset Type	Water Treatment Plant	Est. End Date	-

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Sand Separators	4,000.0	0.0	0.0	0.0	0.0
Total	4,000.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
WATERWORKS CAPITAL PROJECTS RESERVE	4,000.0	0.0	0.0	0.0	0.0
Total	4,000.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2013
Project Type	EQUIPMENT REPLACEMENT	Manager	Larry Schultz
Asset Type	Water Treatment Plant	Est. End Date	-

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Upgrades	0.0	1,560.0	0.0	5,624.0	1,170.0
Total	0.0	1,560.0	0.0	5,624.0	1,170.0
FINANCING DETAILS					
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	1,560.0	0.0	5,624.0	1,170.0
Total	0.0	1,560.0	0.0	5,624.0	1,170.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

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 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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Clarifier Construction	0.0	0.0	0.0	0.0	1,290.0
Total	0.0	0.0	0.0	0.0	1,290.0
FINANCING DETAILS					
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	0.0	0.0	1,290.0
Total	0.0	0.0	0.0	0.0	1,290.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2013
Project Type	INFRASTRUCTURE REPLACEMENT	Manager	Larry Schultz
Asset Type	Wastewater Treatment Plant	Est. End Date	-

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Low Lift Upgrade	0.0	0.0	0.0	0.0	4,679.0
Total	0.0	0.0	0.0	0.0	4,679.0
FINANCING DETAILS					
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	0.0	0.0	4,679.0
Total	0.0	0.0	0.0	0.0	4,679.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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.

Special Note

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

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Pumping & Electrical Upgrades	13,550.0	0.0	0.0	0.0	0.0
Total	13,550.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
BORROWING	12,195.0	0.0	0.0	0.0	0.0
OPERATING BUDGET DOWNPAYMENT	1,355.0	0.0	0.0	0.0	0.0
Total	13,550.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2013
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Pam Loran
Asset Type	Sanitary Sewage Storage Tanks	Est. End Date	-

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Relining Cell	2,000.0	3,640.0	0.0	0.0	0.0
Total	2,000.0	3,640.0	0.0	0.0	0.0
FINANCING DETAILS					
WASTEWATER TRTMNT CAP RES	2,000.0	3,640.0	0.0	0.0	0.0
Total	2,000.0	3,640.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 US-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 the energy monitoring metering equipment, utilizing sub-contractors to install the equipment, commissioning the installations, and then monitoring and storing the data on a web accessible server.

General Comments

Twelve buildings were equipped with energy monitoring equipment and more are slated as funding is available. Monitoring of electricity, gas and water are critical for moving ahead with any Energy Performance contracting work the City proceeds with.

In 2014, the City successfully applied for 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 commissioned in 2015.

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 the capital costs (other than consulting or project management) out of the utility savings after implementing the capital changes.

Special Note

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

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Energy Performance Contracting	5,000.0	10,000.0	0.0	0.0	0.0
Total	5,000.0	10,000.0	0.0	0.0	0.0
FINANCING DETAILS					
BORROWING (INTERNAL) NON-PIL	5,000.0	10,000.0	0.0	0.0	0.0
Total	5,000.0	10,000.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Chlorine Room Capacity Upgrade	0.0	0.0	2,974.0	3,093.0	0.0
Total	0.0	0.0	2,974.0	3,093.0	0.0
FINANCING DETAILS					
WATERWORKS CAPITAL PROJECTS RESERVE	0.0	0.0	2,974.0	3,093.0	0.0
Total	0.0	0.0	2,974.0	3,093.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2577 WWTP-PEP 6TH PUMP

Project Status	Open	Year Identified	2014
Project Type	EQUIPMENT REPLACEMENT	Manager	Larry Schultz
Asset Type		Est. End Date	-

Project Description

This project involves adding a sixth pump to the primary effluent pumping station.

General Comments

The existing pumping station configuration has a firm capacity of 310 MLD. Flows exceeding the pumping capacity would bypass secondary treatment and flow to the river. Installing the sixth pump increases the firm capacity to 365 MLD, meeting peak flow requirements to year 2024.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
PEP 6th Pump	386.0	0.0	0.0	0.0	0.0
Total	386.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
WASTEWATER TRTMNT CAP RES	386.0	0.0	0.0	0.0	0.0
Total	386.0	0.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Downstream User Study	0.0	312.0	0.0	0.0	0.0
Total	0.0	312.0	0.0	0.0	0.0
FINANCING DETAILS					
WASTEWATER TRTMNT CAP RES	0.0	312.0	0.0	0.0	0.0
Total	0.0	312.0	0.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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.

Special Note

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

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Digester Tank 4	8,000.0	15,600.0	0.0	0.0	0.0
Total	8,000.0	15,600.0	0.0	0.0	0.0
FINANCING DETAILS					
BORROWING	5,580.0	9,450.0	0.0	0.0	0.0
OPERATING BUDGET DOWNPAYMENT	620.0	1,050.0	0.0	0.0	0.0
WASTEWATER TRTMNT CAP RES	1,800.0	5,100.0	0.0	0.0	0.0
Total	8,000.0	15,600.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Digester Cleaning Facility	0.0	0.0	2,163.0	0.0	0.0
Total	0.0	0.0	2,163.0	0.0	0.0
FINANCING DETAILS					
WASTEWATER TRTMNT CAP RES	0.0	0.0	2,163.0	0.0	0.0
Total	0.0	0.0	2,163.0	0.0	0.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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.

Project Detail Expenditure/Funding (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
GROSS COST DETAILS					
Design & Construction	0.0	0.0	0.0	0.0	9,359.0
Total	0.0	0.0	0.0	0.0	9,359.0
FINANCING DETAILS					
WASTEWATER TRTMNT CAP RES	0.0	0.0	0.0	0.0	9,359.0
Total	0.0	0.0	0.0	0.0	9,359.0
Incremental Operating Impacts (000's)	Budget 2017	Plan 2018	Plan 2019	Plan 2020	Plan 2021
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.

Special Note

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

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Bioreactor Expansion	0.0	0.0	0.0	2,812.0	12,918.0
Total	0.0	0.0	0.0	2,812.0	12,918.0
FINANCING DETAILS					
BORROWING	0.0	0.0	0.0	0.0	11,626.0
OPERATING BUDGET DOWNPAYMENT	0.0	0.0	0.0	0.0	1,292.0
WASTEWATER TRTMNT CAP RES	0.0	0.0	0.0	2,812.0	0.0
Total	0.0	0.0	0.0	2,812.0	12,918.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	0.0	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2588 ACCESS TRANSIT- BUS ADD ON

Project Status	Open	Year Identified	2016
Project Type	SUPPORT SYSTEMS	Manager	Bob Howe
Asset Type	Miscellaneous Equipment	Est. End Date	January 2018

Project Description

This project will add new technology such as tablets & on-board cameras with both audio and visual onto Access Transit's existing and future fleet.

General Comments

The tablets will be used to replace the current Mobile Data Terminal system which includes a monitor, a modem and a DCC which is an on board computer. This replacement is required due to the lack of future support and service available on an aging technology.

The purchase of on-board cameras with both visual and audio will be used to protect the safety of both the customers and Access Transit staff. It will be used to investigate both customer and operator complaints/incidents to ensure there is no misinterpretation of the facts by all parties.

Operating Impact

2018 - \$9,500 to cover operating costs for the data plans required on buses to operate new technologies.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Equipment Purchases	50.0	0.0	0.0	0.0	0.0
Total	50.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
ACCESS TRANSIT CAPITAL RESERVE	50.0	0.0	0.0	0.0	0.0
Total	50.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	9.5	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

2018 - \$3,000 for software annual maintenance agreements on new modules.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Equipment Purchases	60.0	100.0	100.0	100.0	100.0
Total	60.0	100.0	100.0	100.0	100.0
FINANCING DETAILS					
TRANSIT CAPITAL PROJECTS RESERVE	60.0	100.0	100.0	100.0	100.0
Total	60.0	100.0	100.0	100.0	100.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	3.0	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 in partnership with the Saskatoon Tribal Council (STC), YMCA and a new potential partner, Saskatoon Public Schools.

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 two partnership opportunities moving forward: one with STC; and a new potential partner, Saskatoon Public Schools around White Buffalo Youth Lodge. A second partnership with YMCA will explore a full range of partnership models into the future. In 2017, partnership commitments will be formalized and a memorandum of agreement will be established. Then, pending necessary approvals and formal agreement, the design of a new recreation facility in or around White Buffalo Youth Lodge could occur in 2018, with construction commencing as early as 2019, with the new facility possibly opening in 2021.

Operating Impacts

The operating impacts for 2021 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)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
City Centre Leisure Facility - Construction	0.0	0.0	0.0	9,800.0	9,800.0
City Centre Leisure Facility - Design	0.0	1,000.0	1,000.0	0.0	0.0
City Centre Leisure Facility - Equipment Purchase	0.0	0.0	0.0	0.0	200.0
Total	0.0	1,000.0	1,000.0	9,800.0	10,000.0
FINANCING DETAILS					
UNFUNDED MAJOR PROJECTS	0.0	1,000.0	1,000.0	9,800.0	10,000.0
Total	0.0	1,000.0	1,000.0	9,800.0	10,000.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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 2017 budget will provide funding for project management and development as well as communication and stakeholder consultation

The 2018 plan will provide similar funding to continue through to completion of the project.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Communications/Engagement	25.0	25.0	0.0	0.0	0.0
Research & Development	100.0	100.0	0.0	0.0	0.0
Total	125.0	125.0	0.0	0.0	0.0
FINANCING DETAILS					
BLDG PERMITS/INSPECT STAB RESERVE	63.0	63.0	0.0	0.0	0.0
INFRA RES - STORM WATER	62.0	62.0	0.0	0.0	0.0
Total	125.0	125.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2014
Project Type	EQUIPMENT REPLACEMENT	Manager	Earl Warwick
Asset Type		Est. End Date	-

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 2017 project calls for funding to support an expansion to network storage, detention video storage, software to enable record maintenance for Police data bases and the purchase of specialized multi-monitor workstations in operations. \$150,000 of this project will be dependant on external government agency funding.

Future year projects include continued expansion to network storage and a property control management system.

Operating Impact

Annual software maintenance costs anticipated to increase by \$0 in 2017 and \$50,300 in 2018.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
ASU Tech Package	150.0	150.0	0.0	0.0	0.0
Equipment Purchase	460.0	0.0	0.0	0.0	0.0
Highend Workstation Expansion	50.0	0.0	0.0	0.0	0.0
Storage Area Network	110.0	0.0	0.0	0.0	0.0
Total	770.0	150.0	0.0	0.0	0.0
FINANCING DETAILS					
POLICE OPER EQUIP & TECH RES	620.0	0.0	0.0	0.0	0.0
PRIVATE CONTRIBUTIONS	150.0	150.0	0.0	0.0	0.0
Total	770.0	150.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
Net Dollar Impact	0.0	50.3	0.0	0.0	0.0
FTEs	0.0	0.0	0.0	0.0	0.0

2612 POLICE - COMBINED TRAFFIC SERVICES SASKATCHEWAN VEHICLES

Project Status	Open	Year Identified	2014
Project Type	GROWTH AND CAPITAL EXPANSION	Manager	Earl Warwick
Asset Type		Est. End Date	-

Project Description

This project involves the purchase of an additional fully equipped police vehicle for the Combined Traffic Services Saskatchewan.

General Comments

This project provides for the purchase of one fully equipped police vehicle to be used by the Combined Traffic Services Saskatchewan. This vehicle includes specialized equipment and is estimated to cost \$92,000. This project is dependant on external government agency commitment to providing the funding.

Operating Impact

No operating impact in 2017.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Fleet Addition	92.0	0.0	0.0	0.0	0.0
Total	92.0	0.0	0.0	0.0	0.0
FINANCING DETAILS					
PRIVATE CONTRIBUTIONS	92.0	0.0	0.0	0.0	0.0
Total	92.0	0.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2017
Project Type	INFRASTRUCTURE MAINTENANCE	Manager	Earl Warwick
Asset Type	Building Contents	Est. End Date	-

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.

2017 funding is requested to improve environment conditions for computer equipment, provide facilities to handle dangerous goods and remediation of old facilities. \$885,000 of this project is dependent on the commitment of external Government Agency funding.

Operating Impact

No increase anticipated for 2017.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Police HQ Modifications	72.0	0.0	0.0	0.0	0.0
Police Non-HQ Modifications	920.0	335.0	0.0	0.0	0.0
Total	992.0	335.0	0.0	0.0	0.0
FINANCING DETAILS					
POLICE FAC RENOVATION RES	107.0	335.0	0.0	0.0	0.0
PRIVATE CONTRIBUTIONS	885.0	0.0	0.0	0.0	0.0
Total	992.0	335.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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

Project Status	Open	Year Identified	2017
Project Type	STUDY/PLANNING	Manager	Patti Warwick
Asset Type	Studies - Non capitalized expenditure	Est. End Date	-

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.

Project Detail	Budget	Plan	Plan	Plan	Plan
Expenditure/Funding (000's)	2017	2018	2019	2020	2021
GROSS COST DETAILS					
Board Review	100.0	50.0	0.0	0.0	0.0
Total	100.0	50.0	0.0	0.0	0.0
FINANCING DETAILS					
RESERVE FOR CAPITAL EXPENDITURES	100.0	0.0	0.0	0.0	0.0
UNFUNDED RCE	0.0	50.0	0.0	0.0	0.0
Total	100.0	50.0	0.0	0.0	0.0
Incremental	Budget	Plan	Plan	Plan	Plan
Operating Impacts (000's)	2017	2018	2019	2020	2021
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	166
0740	TCU PLACE-EQUIPMENT REPAIR/REPLACEMENTS	Arts, Culture and Events Venues	33
1834	REMAI MODERN- EQUIPMENT PURCHASES	Arts, Culture and Events Venues	169
1650	CY-NEW MUNICIPAL CEMETERIES	Community Support	155
1963	TU-CORP. ACCESSIBILITY IMPLEMENTATION	Community Support	184
1657	CY-WOODLAWN CEMETERY ROADWAY UPGRADE	Community Support	157
0877	AF-TRUNKING RADIO INFRASTRUCTURE REPLACEMENT	Corporate Asset Management	41
1135	AF-CIVIC BLDGS COMPREHENSIVE MAINTAINANCE PROGRAM	Corporate Asset Management	54
1356	AF-V&E ADD'L VEHICLES & EQUIPT	Corporate Asset Management	87
1357	AF-V&E REPL'T VEHICLES & EQUIPT	Corporate Asset Management	88
1584	CIVIC OPERATIONS CENTRE	Corporate Asset Management	142
1949	AF-SERVICE SASKATOON - STAFFING ACCOMMODATION	Corporate Asset Management	183
2180	AF-CIVIC FACILITY SITE MAINTENANCE	Corporate Asset Management	209
1523	AF-TRUNKING RADIO REPLACEMENT	Corporate Asset Management	127
1557	TU-OFFICE MOD'NS/FURNITURE REPL/UPGRADES	Corporate Asset Management	133
2296	AF-LIONS ARENA PARKING REDEVELOPMENT & SEWER UPGRADE	Corporate Asset Management	233
2298	AF-CAIRNS GRANDSTAND & CLUBHOUSE REPLACEMENT	Corporate Asset Management	234
2176	AF-SHAW CENTRE MAJOR REPAIRS	Corporate Asset Management	208
1934	AF-SPCA BUILDING UPGRADES	Corporate Asset Management	176
1943	AF-EMERGENCY BACK-UP POWER SYSTEM	Corporate Asset Management	181
1929	AF-CSR BUILDING RENOS	Corporate Asset Management	175
1883	CK-ELECTRONIC RECORDS MANAGEMENT	Corporate Governance and Finance	171
1977	CP-LOCAL AREA NETWORK & DATA SECURITY	Corporate Governance and Finance	185
2079	AF-PROPERTY REASSESSMENT	Corporate Governance and Finance	196
1083	CP-CORPORATE NETWORK EQUIPMENT REPL	Corporate Governance and Finance	53
1780	CP-CORP NETWORK INFRASTRUCTURE	Corporate Governance and Finance	165
2368	AF-PRINTING AND MAIL SERVICES - EQUIPMENT	Corporate Governance and Finance	241
1884	CK-ELECTRONIC AGENDA & MEETING MGT SYSTM	Corporate Governance and Finance	172
2531	AF-PORTFOLIO MANAGEMENT SYSTEM REPLACEMENT	Corporate Governance and Finance	289
2523	CP-CITIZEN WEB STOREFRONT AND CITY INTRANET	Corporate Governance and Finance	286
2524	CP-NAMING AND SPONSORSHIP	Corporate Governance and Finance	287
2514	AF-CIS SYSTEM	Corporate Governance and Finance	280
2515	AF-MULTI-YEAR BUSINESS PLAN AND BUDGET	Corporate Governance and Finance	281
2516	CP-DEVELOP ENTERPRISE MANAGEMENT STRATEGIES	Corporate Governance and Finance	282
2517	CP-CITY OF SASKATOON BRAND DEVELOPMENT	Corporate Governance and Finance	283
2519	COMMUNITY WINTER CITY STRATEGY DEVELOPMENT	Corporate Governance and Finance	285
1942	AF-CORPORATE SECURITY PLAN	Corporate Governance and Finance	180
1944	CP-LEARNING MANAGEMENT SYSTEM	Corporate Governance and Finance	182
1829	AF-SERVICE SASKATOON - SYSTEMS	Corporate Governance and Finance	167
1364	CP-SERVICE SASKATOON-CITIZEN INPUT/SYSTEMS/STANDARDS/STAFFING	Corporate Governance and Finance	89
2622	SO-COMPREHENSIVE GOVERNANCE REVIEW	Corporate Governance and Finance	315
1475	US-AUTO'D GARBAGE CONTAINER REPL	Environmental Health	117
2050	US-CONSTRUCTN & DEMOLITION WASTE MGT CTR - RECOVERY PARK	Environmental Health	194
2184	US-WASTE CHARACTERIZATION STUDY	Environmental Health	210
2051	US-LANDFILL OPTIMIZATION	Environmental Health	195
2518	PUBLIC SPACE RECYCLING	Environmental Health	284
1662	CY-ELM TREE INVENTORY	Environmental Health	159
2568	US-CIVIC FAC ENERGY & WTR MONITORING	Environmental Health	300
0582	FR-APPAR-REFURB/REPL/ADD'L	Fire Services	5
1914	FR-NEW STATION - NORTHWEST SASKATOON	Fire Services	174
2379	FR-APPARATUS REPLACEMENT	Fire Services	243
2373	FR-REPLACEMENT OF STATION NO. 3	Fire Services	242
2380	FR- FIRE STATION NO. 11 - HOLMWOOD	Fire Services	244
2504	FR-NEW EQUIPMENT	Fire Services	276
2505	FR- STATION NO. 4 AND MAINTENANCE / MECHANICAL	Fire Services	277
2507	FIRE-BUSINESS CONTINUITY EMO	Fire Services	278
2508	FIRE- REPLACEMENT OF STATION NO. 5	Fire Services	279
0607	PARK DEV-STONEBRIDGE NBRHD	Land Development	8

Project Number	Project Title	Business Line	Page Number
0616	LAND DEV'T-PRIM WTRMN-NORTHEAST SECTOR	Land Development	9
0619	LAND DEV'T-ARTL RD-CENTRAL(ROSSMO-PERIMETER RD)	Land Development	10
0625	LAND DEV'T-TR SWR-NORTHEAST SECTOR	Land Development	11
0626	LAND DEV'T-SUBDIVIS'N WARRANTY	Land Development	13
0627	LAND DEV'T-SUBDIVIS'N FENCING	Land Development	14
0634	LAND DEV'T-TR SWR-NORTH INDUSTRIAL	Land Development	16
0636	LAND DEV'T-TR SWR-MONTGOMERY PLACE WEST	Land Development	18
0639	LAND DEV'T-SUBDIVIS'N BUFFERS	Land Development	19
0655	LAND DEV'T-ARTL RD-MCORMOND(E SECT-PERIMETER RD)	Land Development	20
0668	PARK DEV-BOULEVARD DEVELOPMENT	Land Development	21
0681	LAND DEV'T-ARTL RD-TAYLOR(MCKER-CP TRACK)	Land Development	25
0686	LAND DEV'T-PRIM WTRMN-SOUTHEAST SECTOR	Land Development	26
0704	LAND DEV'T-TR SWR-SOUTHEAST SECTOR	Land Development	28
0748	LAND DEV'T-GEN ADMIN-OLD AREAS	Land Development	34
0778	LAND DEV'T-TR SWR-STONEBRIDGE	Land Development	35
1057	PARK DEV-IND'L AREA BLVD TREE PLANTING	Land Development	52
1400	LAND DEV'T-HAMPTON VILLAGE SUB	Land Development	90
1403	LAND DEV'T-ROSEWOOD	Land Development	91
1405	LAND DEV'T-EVERGREEN	Land Development	92
1407	LAND DEV'T-KENSINGTON	Land Development	93
1408	LAND DEV'T-AIRPORT INDUSTRIAL BUS PARK	Land Development	94
1416	LAND DEV'T-TR SWR-HAMPTON VILLAGE	Land Development	98
1417	LAND DEV'T-TR SWR-BLAIRMORE	Land Development	100
1435	LAND DEV'T -PRIMARY WATER MAINS -NORTH INDUSTRIAL	Land Development	106
1436	LAND DEV'T-BLAIRMORE PRIMARY WATER MAINS	Land Development	107
1458	LAND DEV'T-ART RD-CLAYPOOL DR (DALMNY-AIRPRT DR)	Land Development	110
1464	LAND DEV'T-ART RD-FEDORUK DRIVE	Land Development	112
1466	LAND DEV'T-ART RD - WANUSKEWIN RD	Land Development	113
1769	LAND DEV'T-MARQUIS INDUSTRIAL AREA	Land Development	164
1568	PARK DEV-ROSEWOOD	Land Development	136
1409	LAND DEV'T-NORTH DOWNTOWN	Land Development	95
1410	LAND DEV'T-ELK POINT	Land Development	96
1411	LAND DEV'T- ASPEN RIDGE	Land Development	97
1418	LAND DEV'T-TR SWR - HOLMWOOD	Land Development	102
1437	LAND DEV'T-PRIMARY WATER MAINS - HOLMWOOD SECTOR	Land Development	108
1460	LAND DEV'T-ARTL RD-NEAULT RDWY (22ND-SEC 2)	Land Development	111
1467	LAND DEV'T-ART RD - 33RD ST (HUGHES-NEAULT RD)	Land Development	114
1570	PARK DEV-KENSINGTON	Land Development	137
2459	LAND DEV'T-SOUTH CASWELL HILL REDEVELOPMENT	Land Development	266
1468	LAND DEV'T-ART RD - 8TH STREET EAST	Land Development	115
1474	LAND DEV'T-ESTIMATED FUTURE DIRECT SERVICING PROJECTS	Land Development	116
1419	LAND DEV'T - BRIGHTON	Land Development	103
1420	LAND DEV'T - INFILL DEVELOPMENTS	Land Development	104
1424	LAND DEV'T - NEIGHBOURHOOD 1-RIEL SECTOR	Land Development	105
1663	PARK DEV - N.E. SWALE	Land Development	160
1574	PARK DEV-ASPEN RIDGE	Land Development	139
1575	PARK DEV-ELK POINT	Land Development	140
1576	PARK DEV-BRIGHTON	Land Development	141
2389	POLICE-FLEET ADDITIONS	Policing	245
2119	POLICE-RADIO REPLACEMENT	Policing	203
2489	POLICE-FURNITURE REPLACEMENT	Policing	272
2497	POLICE-EQUIPMENT REPLACEMENT	Policing	273
2498	POLICE-EQUIPMENT EXPANSION	Policing	274
2499	POLICE-TECHNOLOGY REPLACEMENT	Policing	275
2610	POLICE-TECHNOLOGY EXPANSION	Policing	312
2612	POLICE - COMBINED TRAFFIC SERVICES SASKATCHEWAN VEHICLES	Policing	313
2618	POLICE-FACILITY RENOVATION	Policing	314
0677	AF-ALBERT COMM CENTRE RENOS	Recreation and Culture	23

Project Number	Project Title	Business Line	Page Number
0679	AF-GROUNDS MTNCE-EQUIPMENT REPL	Recreation and Culture	24
0706	CY-LEIS SERV-FACILITY EQUIP REPL	Recreation and Culture	29
0901	CY-PARK UPGRADES, ENHANCEMENTS & REPAIRS	Recreation and Culture	42
1627	CY-CITY ENTRANCEWAY/ EXPRESSWAY LANDSCAPING	Recreation and Culture	151
1653	CY-PARK DRAINAGE	Recreation and Culture	156
1876	AF-TENNIS COURT-ACRYLIC SURFACE	Recreation and Culture	170
1938	AF-PLAY STRUCTURE UPGRDE AND REPL	Recreation and Culture	177
2048	CY-FFP & ZOO MASTER PLAN IMPLEMENTATION	Recreation and Culture	193
2101	CY-GOLF COURSE IMPROVEMNTS & EQUIP REPL.	Recreation and Culture	200
2102	CY-SPORTFIELD DEVELOPMENT & IMPROVEMENTS	Recreation and Culture	201
2114	CY-VICTORIA PARK - UPGRADES	Recreation and Culture	202
2349	CY-SASKATOON MINOR FOOTBALL FIELD UPGRADE	Recreation and Culture	238
2352	CY-PERMANENT BOAT LAUNCH SITE	Recreation and Culture	239
2353	CY-CHIEF WHITECAP PARK DEVELOPMENT	Recreation and Culture	240
2130	CY-SATELLITE SKATEBOARD FACILITIES	Recreation and Culture	204
2469	CY-PERMANENT WASHROOMS - SPECIAL USE PARKS	Recreation and Culture	268
2471	CY-KINSMEN PARK & AREA - MASTER PLAN	Recreation and Culture	269
2528	CY-DOG PARK DEVELOPMENT	Recreation and Culture	288
1641	CY-PARKS-ARBOR CREEK PARK PEDESTRIAN BRIDGES REPLACEMENT	Recreation and Culture	154
1658	CY-PARKS NEW SATELLITE MTNC BLDG	Recreation and Culture	158
1939	AF-PADDLING/SPRAY POOL REPLACEMENTS	Recreation and Culture	178
1940	AF-GREENHOUSE REPLACEMENT	Recreation and Culture	179
2474	CY-HUDSON BAY AREA DISTRICT PARKS	Recreation and Culture	270
2476	CY-NEW RECREATION COMPLEX	Recreation and Culture	271
1635	CY-DIEFENBAKER PARK MASTER PLAN	Recreation and Culture	152
1664	CY-GORDON HOWE COMPLEX UPGRADES	Recreation and Culture	161
1595	CY-NEIGHBOURHOOD PARKS ENHANCEMENTS	Recreation and Culture	144
2600	CY-CITY CENTRE AREA INDOOR RECREATION FACILITY	Recreation and Culture	310
0838	LIBR-EQUIPMENT REPLACEMENT	Saskatoon Public Library	40
1761	LIBR-NEW CENTRAL LIBRARY CONSTRUCTION	Saskatoon Public Library	163
0583	TR-REPLACE/REFURB BUSES	Transportation	6
0631	TU-TRANSPORTATION SAFETY IMPROVEMENTS	Transportation	15
0671	TR-AUXILIARY VEH/EQUIP	Transportation	22
0832	CY-CENTER MEDIAN REHABILITATION	Transportation	38
0837	TU-LANE REHAB & DRAINAGE IMPROV	Transportation	39
0948	TU-NEW SIDEWALKS AND PATHWAYS	Transportation	43
0959	TU-UPGRADE BOUNDARY ROADS	Transportation	44
1036	TU-TRAFFIC CONTROL UPGRADES	Transportation	48
1041	TU-BENCHMARK REHABILITATION	Transportation	49
1194	TR- ENGINE OVERHAUL	Transportation	56
1456	TU-RAILWAY CROSSING SAFETY IMPROVEMENTS	Transportation	109
1505	TU-TRAFFIC SIGNAL INFRASTRUCTURE UPGRADES	Transportation	120
1506	TU-TRAFFIC SIGNING REPLACE-INFRA	Transportation	121
1507	TU-GUARDRAILS	Transportation	122
1512	TU-NEIGHBOURHOOD TRAFFIC MANAGEMENT	Transportation	124
1513	TU-PAVEMENT MARKING PROGRAM-INFRA	Transportation	125
1518	CY-PAY STATION PURCHASES & IMPLEMENTATION	Transportation	126
1526	TU-CIRCLE DR BRIDGE REPAIR	Transportation	128
1527	TU-UNIVERSITY BRIDGE REHAB	Transportation	129
1553	TU-SID BUCKWOLD BRIDGE REPAIRS	Transportation	131
1638	TU-BACK LANE TREE TRIMMING	Transportation	153
1893	TU-IDYLWYLD DRIVE/51ST ST OVERPASS REHAB	Transportation	173
1994	TU-MARQUIS DR/IDYLWYLD DR INTERCHANGE	Transportation	186
2037	TU-SNOW MANAGEMENT FACILITIES	Transportation	189
2040	TU-UNDERWATER PIER INSPECTIONS	Transportation	190
2043	TU-CURB REPLACEMENT/REHABILITATION	Transportation	191
2044	TU-GRAVEL STREETS UPGRADES	Transportation	192
2095	ACCESS TRANSIT-BUS REPLACEMENTS	Transportation	197

Project Number	Project Title	Business Line	Page Number
2097	TR- BUS SEAT REPLACEMENT	Transportation	198
2100	ACCESS TRANSIT - ADDITIONAL BUSES	Transportation	199
2233	TU-ADVANCED TRAFFIC MGT SYSTEM	Transportation	217
2234	TU-WALKWAY MANAGEMENT	Transportation	218
2235	TU-INTERSECTION IMPROVEMENTS	Transportation	219
2241	TU-TRUCK ENFORCEMENT/EDUCATION	Transportation	220
2251	CY-IMPOUND LOT	Transportation	221
2257	TU-CIRCLE DR OVER 33RD ST NB/SB	Transportation	223
2273	TU-108TH ST OVER CIRCLE DRIVE	Transportation	231
2317	TR-SHELTERS/BENCHES	Transportation	235
2318	TR-MAINTENANCE MANAGEMENT SYSTEM	Transportation	236
2323	TR-RIDERSHIP GROWTH INITIATIVES	Transportation	237
0584	TR-ADDITIONAL BUSES	Transportation	7
2428	TU-FUNCTIONAL PLANNING STUDIES	Transportation	258
2393	TU-TAYLOR/CIRCLE DRIVE	Transportation	248
1528	TU-SPADINA CRES BRIDGE	Transportation	130
1556	TU-SYSTEM UPGRADES/REPLACEMENTS	Transportation	132
2025	TU-MARQUIS DR/HWY 16 GRADE SEPARATION	Transportation	187
2268	TU-IDYLWYLD DR FWY / 1ST AVE - NB RAMP	Transportation	226
2392	TU-MCKERCHER DR/COLLEGE DR OVERPASS	Transportation	247
2395	TU-CIRCLE DRIVE/14TH ST-NB	Transportation	249
2396	TU-IDYLWYLD FWY/IDYLWYLD RAMP NB/SB	Transportation	250
2397	TU-CIRCLE DRIVE/8TH ST - NB/SB	Transportation	251
2398	TU-ATTRIDGE DR/CIRCLE DR OVERPASS	Transportation	252
2406	TU-MINOR BRIDGE REPAIRS	Transportation	256
2425	TU-UNDERGROUND ENCROACHMENTS	Transportation	257
2433	TU-8TH STREET & CPR GRADE SEPARATION	Transportation	260
2434	TU-HWY 11 & HWY 16 CLOVERLEAF	Transportation	261
2436	TU-CORRIDOR PLANNING STUDIES	Transportation	262
2446	TU-PEDESTRIAN CROSSING IMPROVEMENTS	Transportation	263
2447	TU-33RD ST PEDEST'N CORRIDOR MASTER PLAN	Transportation	264
2448	TU-INTELLIGENT TRANSPORTATION SYSTEM	Transportation	265
2468	TU-ACTIVE TRANSPORTATION PLAN IMPLEMENTATION	Transportation	267
1561	TU-COLLEGE DRIVE WESTBOUND OVER CPR OVERPASS	Transportation	134
1562	TU-COLLEGE DRIVE EASTBOUND OVER CPR OVERPASS	Transportation	135
2259	TU-PW SATELLITE YARDS	Transportation	224
2269	TU-ACCOMMODATION CONSTRUCTION	Transportation	227
2270	TU-PAVED ROADS AND SIDEWALK PRESERVATION	Transportation	228
2271	TU-HIGH SPEED ROADSIDE SAFETY IMPROVEMENTS	Transportation	229
1504	TU- NEIGH.TRAFFIC REVIEW PERMANENT INSTALLATIONS	Transportation	119
2401	TU-PEDESTRIAN CROSSING STRUCTURES	Transportation	253
2402	TU-HIGHWAY 16 EASTBOUND OVER HIGHWAY 11 OVERPASS	Transportation	254
2403	TU-CPR OVER CIRCLE DRIVE EAST OVERPASS	Transportation	255
2265	TU-TRANSPORTATION EQUIPMENT ACQUISITIONS	Transportation	225
2550	TU-WEST/CENTRAL MULTI-USE CORRIDOR	Transportation	292
2429	CY-LICENSE PLATE RECOGNITION SYSTEM	Transportation	259
2588	ACCESS TRANSIT- BUS ADD ON	Transportation	308
2589	TR-TECHNOLOGY PLAN	Transportation	309
1508	CY-CITY ENTRANCE SIGNS	Urban Planning and Development	123
2034	CY-LAP & NBHD SAFETY IMPLEMENTATION	Urban Planning and Development	188
2162	CY-URBAN DESIGN - BIDS	Urban Planning and Development	205
2166	CY-URBAN DESIGN - CITY-WIDE	Urban Planning and Development	206
2390	CY-NATURAL AREAS STRATEGY & GREEN STORM WATER MANAGEMENT	Urban Planning and Development	246
2169	CY-BLDG STANDARDS PROGRAM ENHANCEMENTS	Urban Planning and Development	207
1573	CY- CSO-COMPREHENSIVE REVIEW STUDY	Urban Planning and Development	138
2541	CY-GROWTH PLAN TO HALF A MILLION IMPLEMENTATION	Urban Planning and Development	290
2604	CY- DRAINAGE REGULATION	Urban Planning and Development	311
0687	WWT- ASSET REPLACEMENT	Utilities	27

Project Number	Project Title	Business Line	Page Number
0720	SL&P - CAPACITOR INSTALLATIONS	Utilities	30
0736	SL&P - CUSTOMER UPGRADES AND EXTENSIONS	Utilities	32
1054	WTP-ASSET REPLACEMENT	Utilities	50
1055	WTP-AUTOMATIC METER READING CONV	Utilities	51
1174	SL&P - STREET LIGHTS - LAND DEVELOPMENT	Utilities	55
1243	WWT- LIFT STATION UPGRADES	Utilities	58
1272	SL&P - BUILDINGS & GROUNDS	Utilities	64
1281	SL&P - SUSTAIN POWER GENERATION OPTIONS	Utilities	65
1282	SL&P - STREET LIGHTS - MITIGATION	Utilities	66
1305	SL&P - FEEDER UPGRADES/REPLACEMENT	Utilities	76
1315	SL&P - 138 KV TRANSMISSION LINE UPGRADE	Utilities	79
1316	SL&P - TRANSMIS POLE/STRUCTURE UPGRADES	Utilities	80
1326	SL&P - SUBSTATION MONITORING SYS UPGRADE	Utilities	81
1332	SL&P - SUBSTATION SERVICE LIFE EXTENSION	Utilities	83
1333	SL&P - SUBSTATION UPGRADE - AVE. C	Utilities	84
1350	SL&P - SUBSTATION BUILDING & GROUND RENO	Utilities	85
1353	SL&P - EQUIPMENT UPGRADE & REPLACEMENT	Utilities	86
1493	TU-EAST RIVERBANK STABILIZATION	Utilities	118
1615	TU-WATER DISTRIBUTION	Utilities	145
1616	TU-WASTE WATER COLLECTION	Utilities	146
1617	TU-PRIMARY WATER MAINS	Utilities	147
1618	TU-SANITARY SEWER TRUNKS	Utilities	148
1619	TU-STORM SEWER TRUNK AND COLLECTION	Utilities	149
1621	TU-STORM SEWER POND PRESERVATION	Utilities	150
1677	TU-STORM WATER MGMT UTILITY BILLING	Utilities	162
2197	WTP - WATER CONSERVATION INITIATIVE	Utilities	211
0724	SL&P - REVENUE METER - NEW & REPLACEMENT	Utilities	31
0825	SL&P - STREET LIGHT UPGRADES	Utilities	37
1016	SL&P - NEIGHBOURHOOD STREET LIGHT UPGRDS	Utilities	45
1310	SL&P - UTILITY - RESEARCH & DEVELOPMENT	Utilities	78
2214	WTP - WATER SYSTEM ASSESSMENT	Utilities	212
1018	SL&P - MONITORING SYSTEM UPGRADE (SCADA)	Utilities	46
1283	SL&P - 15KV FDR UPGRADE - RIVER CROSSING	Utilities	67
1301	SL&P - SUBSTATION COMMUNICATION UPGRADE	Utilities	74
1303	SL&P - AVE C FEEDER #2 - TRAFFIC BRIDGE	Utilities	75
1308	SL&P - 15 KV CONV - INTERMED SUBSTATIONS	Utilities	77
1019	SL&P - SUBSTATION UPGRADE - W. J. BUNN	Utilities	47
1257	SL&P - SUBSTATION SECURITY IMPROVEMENTS	Utilities	61
1268	SL&P - NETWORK VAULTS	Utilities	62
1269	SL&P - NORTH DOWNTOWN DEVELOPMENT	Utilities	63
1329	SL&P - SUBSTATION RELAY UPGRADES	Utilities	82
2224	WWT-LIQUID WASTE HAULERS STATION	Utilities	215
2272	WTP - AUXILIARY EQUIPMENT	Utilities	230
2275	WTP - PLANT FACILITY ACCESS UPGRADE	Utilities	232
2255	TU-W&S CAPACITY ANALYSIS FOR REDEVELOPMENT AND MASTER PLANNING	Utilities	222
2219	WTP-N.E. SECTOR RESERVOIR	Utilities	213
2220	WTP-FILTER PLANT UNDERDRAIN UPGRADE	Utilities	214
1286	SL&P - ELEC SYS PLANNING STUDIES	Utilities	68
1295	SL&P - NETWORK - MAJOR ASSETS	Utilities	69
1296	SL&P - NETWORK - CIVIL INFRASTRUCTURE	Utilities	70
1297	SL&P - NETWORK - PRIMARY LINES	Utilities	71
1298	SL&P - NETWORK - SECONDARY LINES	Utilities	72
1299	SL&P - NETWORK - PROTECTION & CONTROL	Utilities	73
1251	SL&P - SUBSTATION - 138 kV SWITCHING	Utilities	59
1255	SL&P - DISTRIBUTION - EQUIPMENT UPGRADE	Utilities	60
2230	WWT-EXPECTED UPGRADES	Utilities	216
2558	WTP-CLARIFIER TUBE SETTLERS	Utilities	293
2559	WTP-SAND SEPARATORS	Utilities	294

Project Number	Project Title	Business Line	Page Number
2561	WTP-EXPECTED UPGRADES	Utilities	295
2562	WTP-CLARIFIER CONSTRUCTION	Utilities	296
2563	WTP-LOW LIFT UPGRADE	Utilities	297
2567	WWTP-RELINING CELL	Utilities	299
2571	WTP-CHLORINE ROOM CAPACITY UPGRADE	Utilities	301
2577	WWTP-PEP 6TH PUMP	Utilities	302
2578	WWTP-DOWNSTREAM USER STUDY	Utilities	303
2579	WWTP-DIGESTER TANK 4	Utilities	304
2580	WWTP-DIGESTER CLEANING FACILITY	Utilities	305
2581	WWTP-FACILITY UPGRADE N40/WWTP	Utilities	306
2585	WWTP-BIOREACTOR EXPANSION	Utilities	307
2565	WTP-TRANSFER PUMPING & ELECTRICAL UPGRADES	Utilities	298
1210	WTP - FILTER PLANT UPGRADE/EXPANSION	Utilities	57