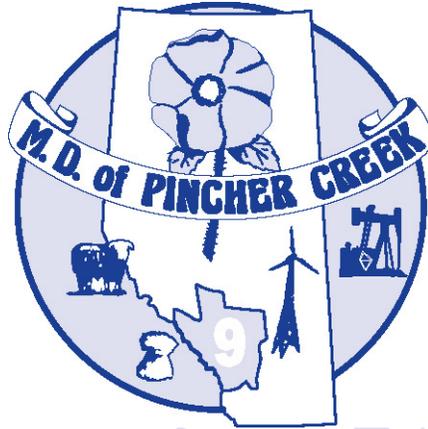


AGENDA
SPECIAL COUNCIL MEETING
MUNICIPAL DISTRICT OF PINCHER CREEK
Tuesday, October 30, 2018; 10:00 am
Council Chambers, Administration Building

- A. ADOPTION OF AGENDA
- B. 2019 DRAFT CAPITAL BUDGET PRESENTATION
- C. NEW BUSINESS
- D. ADJOURNMENT



Municipal District of Pincher Creek No. 9
2019 Capital Budget Draft
October 30, 2018

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MEMORANDUM

TO: Members of Council

FROM: Sheldon Steinke, Interim Chief Administrative Officer

SUBJECT: 2019 CAPITAL BUDGET DRAFT

DATE: October 25, 2018

The attached draft Capital Budget document provides the 2019 Capital Budget and 2020-2023 Capital Plans. This budget could be considered to be “aggressive” because it has been developed with the intent of using provincial and federal grant revenues that have been received but not applied to capital projects; i.e., \$5.4 million.

Management has endeavoured to provide information in this document that will assist with the discussion scheduled for October 30, 2018. This is a draft document that will be included with amendments in the 2019 Operating and Capital Budget document to be addressed later this year.

Council will not be expected to approve the capital budget at the October 30 meeting, but management is requesting that “approvals in principle” can be achieved so that significant capital amendments during the total budget deliberations scheduled to start in November will not be required.

Sheldon Steinke

DRAFT

Capital Budget Summary

Project #	Service Area	Description	Total Cost	Sources of Project Funding				Total Revenue
				Grants	Debt	Reserves	Operations	
Infrastructure								
PW-R-1	Roads	Highway 3A - Landfill road repairs	1,004,000			1,004,000		1,004,000
PW-R-2	Roads	Summerview road surface treatment (4.4 km)	550,000	550,000				550,000
PW-R-3	Roads	Kerr road surface treatment (4.8 km)	600,000	600,000				600,000
PW-R-4	Roads	Lundbreck pave and drainage (1st & 3rd Street)	400,000	400,000				400,000
PW-R-5	Roads	Willow Valley road culvert	500,000	500,000				500,000
PW-BF-1	Bridges	BF 1744 Pincher Creek (Crook Road)	652,000			652,000		652,000
PW-BF-2	Bridges	BF 6613 Cabin Creek	639,000			639,000		639,000
PW-BF-3	Bridges	BF 70175 Spread Eagle deck	100,000			100,000		100,000
PW-BF-4	Bridges	BF 7235 Scottons	30,000			30,000		30,000
PW-BF-5	Bridges	BF 76293 Grumpy Road	30,000			30,000		30,000
PW-BF-6	Bridges	BF 70177 Upper Tennessee overflow	15,000			15,000		15,000
PW-BF-7	Bridges	BF 8860 Beaver Mines Creek	20,000			20,000		20,000
PW-BF-8	Bridges	BF 13957 Connelly Creek	18,000			18,000		18,000
RWCAST	Water	Castle Area water servicing	10,572,000	10,572,000				10,572,000
BMDC	Water/Wastewater	Beaver Mines water servicing & wastewater collection	5,380,000	3,586,666	1,793,334			5,380,000
BML	Water/Wastewater	Beaver Mines waste water treatment system	4,620,000	3,413,334	1,206,666			4,620,000
PW-P-1	Parks	Patton Park shelterbelt	28,000			28,000		28,000
Infrastructure Total			25,158,000	19,622,000	3,000,000	2,536,000	0	25,158,000
Equipment								
	Public works	Grader	565,000			565,000		565,000
	Public works	Tandem axle truck with snow plow	500,000			500,000		500,000
	Water	Water meter reader	14,000			14,000		14,000
AG-01	Agriculture	Sprayer truck with tank/sprayer boom	131,500			131,500		131,500
	Administration	Postscript printer	8,000			8,000		8,000
Equipment Total			1,218,500	0	0	1,218,500	0	1,218,500
Fleet								
Fleet Total			0	0	0	0	0	0
Information Services								
	GPS/GIS Upgrade		53,000	53,000				53,000
Information Services Total			53,000	53,000	0	0	0	53,000
Facilities								
ADMIN-SEC-1	Public works/Admin	Security camera system	50,000	50,000				50,000
PW-O-1	Public works	Electric sliding gate at Public Works yard	75,000	2,500			72,500	75,000
Facilities Total			125,000	52,500	0	0	72,500	125,000
Grand Total			26,554,500	19,727,500	3,000,000	3,754,500	72,500	26,554,500

Future Capital Projects		2020	2021	2022	2023
Infrastructure					
Roads	Southfork Hill re-pave (Castle River to Airport)	2,000,000			
Roads	Foothills Road surface treatment (11.4km)	1,425,000			
Roads	Twin Butte East (4.8 km)		600,000		
Roads	Snake Trail surface treatment (8.0 km)		1,000,000		
Bridges	Bridge File #7235 Scottons	370,000			
Bridges	Bridge File #76293 Grumpy Road	300,000			
Bridges	Bridge File #70177 Upper Tennessee overflow	30,000			
Bridges	Bridge File #8860 Beaver Mines Creek	100,000			
Bridges	Bridge File #13957 Connelly Creek	50,000			
Bridges	Bridge File #2224 Lank deck	150,000			
Bridges	Bridge File #2488 Fischer deck	100,000			
Bridges	Bridge File #75009 Wild Cat Ranch	30,000	300,000		
Bridges	Bridge File #75377 7 Gates	30,000	300,000		
Bridges	Bridge File #828 Drummond deck, riprap, guard rail	30,000	150,000		
Bridges	Bridge File #74119 Austin deck		100,000		
Bridges	Bridge File #6765 Lyle Nobles Floor Patch	30,000	100,000		
Bridges	Bridge File #75265 Heath Creek		30,000	450,000	
Bridges	Bridge File #74259 East 6 Toney Drive		30,000	350,000	
Bridges	Bridge File #74260 Jack Place			30,000	350,000
Bridges	Bridge File #13960 Wright's Corner			30,000	350,000
Bridges	Bridge File #1113 Demontsu Loop Strut or Line				30,000
Bridges	Bridge File #75481 NE Bob Hewitt				30,000
Water/Wastewater	Beaver Mines water servicing & wastewater collection	380,000			
Infrastructure Total		5,025,000	2,610,000	860,000	760,000
Equipment					
Public Works	Grader	565,000	565,000	565,000	565,000
Public Works	Tandem axle truck with snow plow	500,000			
Public Works	Steamer truck - 1 ton	44,850			
Public Works	Water truck	150,000	150,000		
Public Works	Welder	14,000			
Public Works	Front-end loader	110,040			
Public Works	Backhoe		130,000		
Public Works	Grader mower		130,000		
Public Works	Tractor & loader		130,000		
Public Works	Front mount mower		23,600		
Public Works	Wobbly packer			18,000	
Public Works	Fork lift			58,050	
Public Works	Airport mower			9,300	
Public Works	Truck - 1 ton			45,000	
Public Works	Packer				40,200
Public Works	Riding lawn mower				5,600
Water	Standby generator for water intake	150,000			
Agriculture	Animal scale	10,000			
Agriculture	Quad	12,500			
Agriculture	Truck mounted intelligent sprayer		17,000		17,000
Agriculture	Truck mounted intelligent sprayer				17,000
Agriculture	Quad sprayer			12,000	
Equipment Total		1,556,390	1,145,600	707,350	644,800

		2020	2021	2022	2023
Fleet					
Public Works	Light truck	40,000	40,000	40,000	40,000
Public Works	Light truck	40,000	40,000	40,000	40,000
Agriculture	Light truck	40,000	40,000		40,000
Agriculture	Light truck				40,000
Administration	Light truck	35,000			
Administration	Passenger vehicle			26,000	
Fleet Total		155,000	120,000	106,000	160,000
Information Services					
Administration	Computer system - servers hardware	20,000			
Administration	Computer system - servers software	30,000			
Administration	Financial software			180,000	
Administration	Microsoft update				12,000
Administration	Audio equipment - Council Chambers				20,000
Information Services Total		50,000	0	180,000	32,000
Facilities					
Public Works	Lundbreck Shop concrete floor	50,000			
Public Works	Public Works Shop wash bays (3)	30,000	1,200,000		
Public Works	Fabric parking structure (Public Works yard)		500,000		
Public Works	Public Works Shop lubricant dispensing system			25,000	
Facilities Total		80,000	1,700,000	25,000	0
Grand Total Expenditures		6,866,390	5,575,600	1,878,350	1,596,800
Sources of Project Funding					
Grants		3,828,334	2,100,000		
Debt		126,666			
Reserves		2,831,390	2,275,600	1,853,350	1,596,800
Operations		80,000	1,200,000	25,000	
Total Sources of Project Funding		6,866,390	5,575,600	1,878,350	1,596,800

Capital Grants & Reserves Summary

Capital Grants Summary

Annual Grants

MSI Capital	571,867
MSI Operating	54,470
Basic Municipal Transportation	251,524
Gas Tax Fund	163,532
Jubilee Insurance Security	2,500
	<hr/>
Total Annual Grants	<u>1,043,893</u>

Available Grant Funds	2019	2020	2021	2022	2023
Beginning of year	5,362,446	4,250,839	1,719,732	663,625	1,707,518
Annual grants	1,043,893	1,043,893	1,043,893	1,043,893	1,043,893
Special grants	17,572,000	253,334			
Expenditures	19,727,500	3,828,334	2,100,000	0	0
End of year	4,250,839	1,719,732	663,625	1,707,518	2,751,411

Capital Reserves Summary

	Road			Water	Wastewater
	Equipment	Construction	Bridges		
Annual Transfer to Reserve	877,720	0	220,000	0	0
End of Year Balance					
2018	2,151,850	2,140,014	2,132,904	373,000	679,000
2019	1,758,070	826,014	823,904	356,000	679,000
2020	1,024,400	516,014	(201,096)	303,000	679,000
2021	636,520	266,014	(1,016,096)	278,000	679,000
2022	453,890	16,014	(1,681,096)	253,000	679,000
2023	488,810	(233,986)	(2,246,096)	228,000	679,000
2024	527,040				
2025	267,760				
2026	(166,410)				
2027	(576,890)				
2028	(649,920)				
2029	(1,039,400)				
2030	(1,437,180)				
2031	(2,383,260)				
2032	(2,633,980)				
2033	(2,785,350)				
2034	(2,632,130)				
2035	(2,941,560)				
2036	(3,035,940)				
2037	(3,473,570)				



Project Name	Highway 3A – Landfill road repairs
Project Number	PW-R-1
Priority	1
Service Area	Public Works - Roads
Project Description	Widen and repave Highway 3A from Highway 3 to the landfill road (RR2-0)
Project Cost	Grade widening \$551,000 Overlay 362,000 Contingency <u>91,000</u> Total cost \$1,004,000
Funding Sources	Public Works Road Construction Reserve Recommend that Council considers requesting financial assistance from the Crowsnest Pincher Creek Landfill Association for this project.
Timeline	Completed in 2019
Rationale for the need	Significant pavement distresses in the road base have caused the pavement to rut and shove; specifically in the west bound lane. This creates increased difficulties during the winter when there is snow on the road.
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	A road ban will probably need to be placed on the road to reduce further deterioration. This road ban may need to be year around.
Treatment of asset replaced	
Other options to recommendation	



Project Name	Summerview Road Surface Treatment
Project Number	PW-R-2
Priority	2
Service Area	Public Works - Roads
Project Description	4.4 km - Add gravel base course (GBC) and two lifts of chip seal to the road from Highway 3 to Secondary Highway 785.
Project Cost	Engineering will not be required because the road sub-grade has been constructed to an engineered standard. MD of Pincher Creek – base course \$242,000 Contracted – 1 st and 2 nd chip seal lift <u>308,000</u> Total cost \$550,000
Funding Sources	Municipal Sustainability Initiative Grant - Capital
Timeline	Completed in 2019
Rationale for the need	Increased arterial traffic; Council strategic plan
Impact on future operating costs	Reduced grader road maintenance and increased efficiency of snow removal because it will be the truck snowplow instead of the grader.
Impact on other departments	
Implications of deferring this project	Continued operational maintenance because the gravel surface requires regular maintenance due to washboarding. Dust control is also required.
Treatment of asset replaced	
Other options to recommendation	



Project Name	Kerr Road Surface Treatment
Project Number	PW-R-3
Priority	3
Service Area	Public Works - Roads
Project Description	4.8 km – Add GBC and two lifts of chip seal to the road from Primary Highway 6 to RR 29-4.
Project Cost	<p>Engineering will not be required because the road sub-grade has been constructed to an engineered standard.</p> <p>MD of Pincher Creek – base course \$264,000</p> <p>Contracted – 1st and 2nd chip seal lift <u>336,000</u></p> <p>Total cost \$600,000</p>
Funding Sources	Municipal Sustainability Initiative Grant - Capital
Timeline	Completed in 2019
Rationale for the need	Increased arterial traffic; Council strategic plan
Impact on future operating costs	Reduced grader road maintenance and increased efficiency of snow removal because it will be the truck snowplow instead of the grader.
Impact on other departments	
Implications of deferring this project	Continued operational maintenance because the gravel surface requires regular maintenance due to washboarding. Dust control is also required.
Treatment of asset replaced	
Other options to recommendation	



Project Name	Lundbreck pave and drainage (1st & 3rd Street)
Project Number	PW-R-4
Priority	4
Service Area	Public Works - Road
Project Description	Length – 220 meters The ditches will be cleaned and culverts repaired. A lift of gravel will be put down to improve the street elevation. Hot mix pavement.
Project Cost	MD – Ditch cleaning and culvert repairs \$ 50,000 MD – lift of gravel; Contract – paving <u>350,000</u> Total cost \$400,000
Funding Sources	Municipal Sustainability Initiative Grant – Capital Will apply for Small Communities grant funding which, if received, will provide additional room in the MSI Capital grant funding for other projects.
Timeline	Completed in 2019
Rationale for the need	The water system and streets were rehabilitated in 2010 – 2012 with the exception of these 2 streets. They are gravel and there is poor ditching resulting in poor drainage. The residents on these streets expect that their streets should be similar to the others in the community.
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	The culverts have been crimped which creates a safety issue as well as reduced drainage. Poor drainage results in road deterioration. Complaints from the hamlet residents will be expected to continue.
Treatment of asset replaced	
Other options to recommendation	



Project Name	Willow Valley Road Culvert
Project Number	PW-R-5
Priority	5
Service Area	Public Works - Roads
Project Description	Culvert replacement; NE 20-9-2-W5M 1 – 900 mm main pipe; 1 – 600 mm overflow pipe 7 m deep fill location This project will require engineering and permitting.
Project Cost	Engineering, excavation, culvert installation, backfill - \$500,000
Funding Sources	Basic Municipal Transportation Grant
Timeline	2019
Rationale for the need	This is not a 'bridge file' culvert that requires regular inspection. Therefore, it has not been included in the long range bridge replacement plan. The main culvert and overflow culvert have both been uncoupled on the downstream end due to water velocity. The uncoupling of the culverts has resulted in slope failure in both locations.
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	Not repairing this culvert will result in road failure and a 16 km detour for residents.
Treatment of asset replaced	
Other options to recommendation	



Project Name	Bridge File 1744 Pincher Creek (Crook Road)						
Project Number	PW-BF-1						
Priority	1						
Service Area	Public Works - Bridges						
Project Description	Culvert replacement; SW 27-5-29-W4M 1 pipe; 2.43 m diameter; 91.44 m in length						
Project Cost	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Engineering costs – 2018</td> <td style="text-align: right;">\$ 21,000</td> </tr> <tr> <td>Replacement – 2019 – contracted</td> <td style="text-align: right;"><u>652,000</u></td> </tr> <tr> <td>Total cost</td> <td style="text-align: right;">\$673,000</td> </tr> </table>	Engineering costs – 2018	\$ 21,000	Replacement – 2019 – contracted	<u>652,000</u>	Total cost	\$673,000
Engineering costs – 2018	\$ 21,000						
Replacement – 2019 – contracted	<u>652,000</u>						
Total cost	\$673,000						
Funding Sources	Public Works Bridge Reserve An application will be made to the Province to fund 75% of the costs under the Strategic Transportation Infrastructure Program. Any proceeds from this grant, if approved, will be put to the Public Works Bridge Reserve.						
Timeline	Completed in 2019						
Rationale for the need	Cracked culvert rings and holes in the floor.						
Impact on future operating costs							
Impact on other departments							
Implications of deferring this project	Delay in reconstruction of this bridge could result in further deterioration, closure and a 5 km detour.						
Treatment of asset replaced							
Other options to recommendation							



Project Name	Bridge File 6613 Cabin Creek						
Project Number	PW-BF-2						
Priority	2						
Service Area	Public Works - Bridges						
Project Description	Culvert replacement; SW 3-9-1-W5M 1 pipe; 2.43 m diameter; 70.7 m in length						
Project Cost	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Engineering costs – 2018</td> <td style="text-align: right;">\$ 21,000</td> </tr> <tr> <td>Replacement – 2019 – contracted</td> <td style="text-align: right;"><u>639,000</u></td> </tr> <tr> <td>Total cost</td> <td style="text-align: right;">\$660,000</td> </tr> </table>	Engineering costs – 2018	\$ 21,000	Replacement – 2019 – contracted	<u>639,000</u>	Total cost	\$660,000
Engineering costs – 2018	\$ 21,000						
Replacement – 2019 – contracted	<u>639,000</u>						
Total cost	\$660,000						
Funding Sources	Public Works Bridge Reserve An application will be made to the Province to fund 75% of the costs under the Strategic Transportation Infrastructure Program. Any proceeds from this grant, if approved, will be put to the Public Works Bridge Reserve.						
Timeline	Completed in 2019						
Rationale for the need	Isolated perforations in the roof and 12% deflection. Normal deflection should be no more than 1%.						
Impact on future operating costs							
Impact on other departments							
Implications of deferring this project	Delay in reconstruction of this bridge could result in further deterioration, closure and a 37 km detour.						
Treatment of asset replaced							
Other options to recommendation							



Project Name	Bridge File 70175 Spread Eagle Deck
Project Number	PW-BF-3
Priority	3
Service Area	Public Works - Bridges
Project Description	Deck replacement (driving surface); NW 22-3-30-W4M
Project Cost	Contracted - \$100,000
Funding Sources	Public Works Bridge Reserve
Timeline	Completed in 2019
Rationale for the need	Deck and subdeck require replacement
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	Delay in reconstruction of this bridge could result in further deterioration, closure and a 13 km detour.
Treatment of asset replaced	
Other options to recommendation	

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Project Name	Bridge File 7235 Scottons
Project Number	PW-BF-4
Priority	4
Service Area	Public Works - Bridges
Project Description	Culvert replacement; NW 5-9-1-W5M 1 pipe; 1.92 m diameter; 49.4 m in length
Project Cost	2019 – Engineering - \$30,000 2020 & 2021 - Land purchase and replacement costs estimated at \$370,000.
Funding Sources	Engineering – Bridge Repair Reserve
Timeline	2019 – Engineering 2020 & 2021 – Land purchase and replacement
Rationale for the need	Cracked rings and rotted struts were identified in the 2013 ten year bridge study.
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	Delay in reconstruction of this bridge could result in further deterioration, closure and an 8 km detour.
Treatment of asset replaced	
Other options to recommendation	



Project Name	Bridge File 76293 Grumpy Road
Project Number	PW-BF-5
Priority	5
Service Area	Public Works - Bridges
Project Description	Culvert replacement; NE 4-6-2-W5M
Project Cost	2019 – Engineering - \$30,000 2020 & 2021 - Land purchase and replacement costs estimated at \$370,000.
Funding Sources	Engineering – Bridge Repair Reserve
Timeline	2019 – Engineering 2020 & 2021 – Land purchase and replacement
Rationale for the need	Repair of deflection and sidewall crimp
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	Delay in reconstruction of this bridge could result in further deterioration, closure and a 10 km detour.
Treatment of asset replaced	
Other options to recommendation	



Project Name	Bridge File 70177 Upper Tennessee Overflow
Project Number	PW-BF-6
Priority	6
Service Area	Public Works - Bridges
Project Description	Culvert replacement; SW 15-8-30-W4M
Project Cost	2019 – Engineering - \$15,000 2020 – Costs to replace the overflow pipe estimated at \$30,000.
Funding Sources	Engineering – Bridge Repair Reserve
Timeline	2019 – Engineering 2020 – Replace overflow pipe
Rationale for the need	Replace plugged overflow pipe at the end of its service life.
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	Delay in replacement of the overflow derates the capacity of the main structure. This could result in further deterioration, closure and a 7 km detour.
Treatment of asset replaced	
Other options to recommendation	



Project Name	Bridge File 8860 Beaver Mines Creek
Project Number	PW-BF-7
Priority	7
Service Area	Public Works - Bridges
Project Description	Concrete bridge structure; NW 11-6-2-W5M Repair selected piles and replace all of the caps
Project Cost	2019 – Engineering - \$20,000 2020 – Costs to replace the rotted timbers and caps estimated at \$100,000.
Funding Sources	Engineering – Bridge Repair Reserve
Timeline	2019 – Engineering 2020 – Replace rotted timbers and caps
Rationale for the need	Coring done for the 2016 Bow Valley Bridge Services Report identified required repairs. The bridge is in fairly good condition, with rot present in the majority of the caps, one pier pile and being rot in multiple cores in one abutment pile.
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	Delay in replacement of the timbers derates the capacity of the main structure. This could result in further deterioration, closure with no available detour.
Treatment of asset replaced	
Other options to recommendation	



Project Name	Bridge File 13957 Connelly Creek
Project Number	PW-BF-8
Priority	8
Service Area	Public Works - Bridges
Project Description	Concrete bridge structure; NE 5-8-2-W5M Replace the abutment caps
Project Cost	2019 – Engineering - \$18,000 2020 – Costs to replace the rotted timbers and caps estimated at \$50,000.
Funding Sources	Engineering – Bridge Repair Reserve
Timeline	2019 – Engineering 2020 – Replace rotted timbers and caps
Rationale for the need	Coring done for the 2016 Bow Valley Bridge Services Report identified required repairs. The main Substructure and Superstructure elements of this bridge are in generally adequate to good condition, with the exception of the abutment caps. Replacement of the abutments caps is recommended as a high priority within the next 3 years (2016 – 2018).
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	Delay in replacement of the timbers derates the capacity of the main structure. This could result in further deterioration, closure with no available detour.
Treatment of asset replaced	
Other options to recommendation	



Project Name	Castle Area Water Servicing
Project Number	RWCAST
Priority	1
Service Area	Water
Project Description	<p>This is a project with 4 sub-projects:</p> <ol style="list-style-type: none"> 1. Raw water intake (2014 – 2018) 2. Water license (2018) 3. Castle area water servicing <ul style="list-style-type: none"> • 27 km of pipeline • 2 booster stations • Interaction with Castle Mountain Resort infrastructure 4. Beaver Mines water servicing
Project Cost	<p>2018 – \$250,000 2019 – \$10,072,000 2020 – \$250,000</p>
Funding Sources	Provincial Water for Life Grant
Timeline	<p>2018 – Raw water intake and water license 2019 – Water servicing and treatment Tender closed October 25, 2018</p>
Rationale for the need	<p>This is an initiative of the Province of Alberta resulting in the full funding of this project. The Province was going to supply water to select locations in Castle Park as well as the Castle Mountain Resort. The timing of the Beaver Mines projects coincided with this project.</p>
Impact on future operating costs	<p>Additional time will be required to monitor and maintain the water system operations.</p>
Impact on other departments	
Implications of deferring this project	
Treatment of asset replaced	
Other options to recommendation	



Project Name	Beaver Mines Water Servicing and Wastewater Collection																
Project Number	BMDC																
Priority	1																
Service Area	Water distribution and wastewater collection																
Project Description	Install a water distribution system and wastewater collection system at Beaver Mines followed by rehabilitation of the road surface.																
Project Cost	2019 – Waster distribution & wastewater collection –\$5,380,000 2020 – Road surface rehabilitation – \$380,000																
Funding Sources	<p>Funding is shared equally between the Federal, Provincial and Municipal District of Pincher Creek</p> <table border="1"> <thead> <tr> <th></th> <th>2019</th> <th>2020</th> </tr> </thead> <tbody> <tr> <td>Federal</td> <td>\$1,793,333</td> <td>\$126,667</td> </tr> <tr> <td>Provincial</td> <td>\$1,793,333</td> <td>\$126,667</td> </tr> <tr> <td>Debt</td> <td>\$1,793,334</td> <td>\$126,666</td> </tr> <tr> <td>Total</td> <td>\$5,380,000</td> <td>\$380,000</td> </tr> </tbody> </table> <p>Council Resolution 17/398, September 26, 2017 Debenture up to \$4 million for 20 years for the wastewater treatment portion.</p>			2019	2020	Federal	\$1,793,333	\$126,667	Provincial	\$1,793,333	\$126,667	Debt	\$1,793,334	\$126,666	Total	\$5,380,000	\$380,000
	2019	2020															
Federal	\$1,793,333	\$126,667															
Provincial	\$1,793,333	\$126,667															
Debt	\$1,793,334	\$126,666															
Total	\$5,380,000	\$380,000															
Timeline	2019 – servicing, pipes in the ground 2020 – rehabilitation road surface																
Rationale for the need	Beaver Mines presently relies on point of use wells and cisterns for potable water and septic systems for wastewater collection and treatment. There are health and safety issues due to bacteria found in the water samples and septic systems in a state of deterioration.																
Impact on future operating costs	Increased time for water treatment and wastewater collection personnel to monitor and maintain the system.																
Impact on other departments																	
Implications of deferring this project	Health and safety issues will continue and may increase.																
Treatment of asset replaced																	
Other options to recommendation																	



Project Name	Beaver Mines Waste Water Treatment System									
Project Number	BML									
Priority	1									
Service Area	Waste water									
Project Description	<p>The wastewater treatment options still needs to be determined by Council. The following alternatives are being considered:</p> <ul style="list-style-type: none"> • Lagoon • Sequencing batch reactor plant 									
Project Cost	\$4,620,000									
Funding Sources	<p>\$3,620,000 is shared equally between Federal, Provincial and Municipal District of Pincher Creek. The Province will provide an additional \$1,000,000 from the Alberta Municipal Water Wastewater Program.</p> <table border="1"> <tr> <td>Federal</td> <td>\$1,206,667</td> </tr> <tr> <td>Provincial</td> <td>\$2,206,667</td> </tr> <tr> <td>Debt</td> <td>\$1,206,666</td> </tr> <tr> <td>Total</td> <td>\$4,620,000</td> </tr> </table> <p>Council Resolution 17/398, September 26, 2017 Debenture up to \$4 million for 20 years for the wastewater treatment portion.</p>		Federal	\$1,206,667	Provincial	\$2,206,667	Debt	\$1,206,666	Total	\$4,620,000
Federal	\$1,206,667									
Provincial	\$2,206,667									
Debt	\$1,206,666									
Total	\$4,620,000									
Timeline	2019									
Rationale for the need	Beaver Mines presently relies on septic systems for wastewater collection and treatment. There is a health and safety issue due to septic systems in a state of deterioration.									
Impact on future operating costs	Increased time for wastewater collection personnel to monitor and maintain the system.									
Impact on other departments										
Implications of deferring this project										
Treatment of asset replaced										
Other options to recommendation										



Project Name	Patton Park Shelterbelt
Project Number	PW-P-1
Priority	1
Service Area	Public Works - Operations
Project Description	Install a shelterbelt along the eastern edge of Patton Park to act as a snow fence in the winter. A water system will be installed using potable water.
Project Cost	Contracted – \$28,000
Funding Sources	Public Trust Reserve
Timeline	2019
Rationale for the need	A shelterbelt adds to the park experience and the snow fence characteristics would preclude the need for a snow fence.
Impact on future operating costs	Potable water will be used to water the trees. Reduced snow fence installation/removal labour, equipment and material costs.
Impact on other departments	
Implications of deferring this project	Public Works will continue to install snow fence in the fall and dismantle in the spring.
Treatment of asset replaced	
Other options to recommendation	



Project Name	Grader
Project Number	
Priority	
Service Area	Public Works Equipment
Project Description	Caterpillar graders are purchased. This is the choice of the Trade Division of the Rural Municipalities of Alberta; the Trade Division is used for this purchase.
Project Cost	\$565,000 This price includes a 7 year warranty. Consideration is to increase the warranty period to 10 years to match the equipment useful life. Increasing the warranty period will result in an increased capital cost.
Funding Sources	Equipment Reserve
Timeline	January, 2019
Rationale for the need	The MD has 10 graders which are replaced on the average after 10 years of services. 8 graders are used for the regular grader beats with the others used as spares. All 10 graders are deployed in the winter for snow removal operations.
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	There will be the increased risk of major mechanical repairs. Also, the norm is to replace every 10 years and, if this norm is continued to be used, then there will need to be a catch-up year when 2 graders will need to be purchased.
Treatment of asset replaced	The grader is sold with the proceeds placed in the Equipment Reserve.
Other options to recommendation	



Project Name	Tandem axle truck with snow plow						
Project Number							
Priority							
Service Area	Public Works Equipment						
Project Description	Kenworth or Peterbilt trucks are purchased. This is the choice of the Trade Division of the Rural Municipalities of Alberta; the Trade Division is used for this purchase.						
Project Cost	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">Truck chassis</td> <td style="text-align: right;">\$250,000</td> </tr> <tr> <td>Attachments – gravel box, sander box, front mount plow, plow wing</td> <td style="text-align: right;"><u>250,000</u></td> </tr> <tr> <td>Total cost</td> <td style="text-align: right;">\$500,000</td> </tr> </table>	Truck chassis	\$250,000	Attachments – gravel box, sander box, front mount plow, plow wing	<u>250,000</u>	Total cost	\$500,000
Truck chassis	\$250,000						
Attachments – gravel box, sander box, front mount plow, plow wing	<u>250,000</u>						
Total cost	\$500,000						
Funding Sources	Equipment Reserve						
Timeline	January, 2019						
Rationale for the need	The MD has 3 tandem trucks which are normally replaced after 10 years of service. These trucks are used year around for the gravelling operations and snow removal.						
Impact on future operating costs							
Impact on other departments							
Implications of deferring this project	Risk of increase in major mechanical repairs.						
Treatment of asset replaced	The truck is auctioned with the net proceeds placed in the Equipment Reserve.						
Other options to recommendation							



Project Name	Water meter reader
Project Number	
Priority	
Service Area	Water
Project Description	Water meter reader upgrade
Project Cost	Hardware – \$14,000 including training and warranty The software is hosted cloud based and costs \$3,795 per year.
Funding Sources	Water Reserve
Timeline	
Rationale for the need	The current meter reader hardware and software is no longer supported.
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	If the current hardware malfunctions, the water meters will not be able to read.
Treatment of asset replaced	Discarded due to obsolescence
Other options to recommendation	



Project Name	Sprayer truck with tank/sprayer boom	
Project Number	AG-01	
Priority		
Service Area	Agriculture & Environmental Services - Equipment	
Project Description	Rebuild and upgrade the Agriculture Department roadside unit. This roadside unit is used for spraying large patches of weeds along roadsides, around signs and other infrastructure.	
Project Cost	Truck – 2 ton	\$66,000
	Deck	\$11,000
	Boom	\$10,350
	Tank & pump	\$6,600
	Injection system	\$28,550
	Contingency	\$9,000
	Total cost	\$131,500
Funding Sources	Equipment Reserve	
Timeline	Purchased and outfitted in 2019	
Rationale for the need	<p>The current roadside unit is out of date.</p> <ul style="list-style-type: none"> • Truck needs heavier suspension, more room and new safety equipment. • Deck needs more length, new lighting and safety equipment. • Boom needs replacement. • Tank and pump are both 20 plus years old and need to be replaced. • Injection system is still mostly good but components need replacing and if the component cannot be paired with the new technology (specifically, GIS and cabling), then it will become immediately out of date and/or obsolete. 	
Impact on future operating costs		
Impact on other departments		
Implications of deferring this project	This equipment is more than 20 years old and out of date. Replacements have been pushed back for several years. The alternative is to perform repairs and replacements that may not be satisfactory in the short term and certainly not satisfactory for the long term.	
Treatment of asset replaced	Public Works will use the chassis and deck; it is ready for use as it is. The sprayer equipment will be auctioned.	
Other options to recommendation		



Project Name	Postscript printer
Project Number	
Priority	
Service Area	Administration - Equipment
Project Description	Plotter printer for the GIS and other mapping purposes.
Project Cost	\$8,000
Funding Sources	Equipment Reserve
Timeline	2019
Rationale for the need	Ink supplies are becoming more difficult to find because the present plotter printer is out of date.
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	
Treatment of asset replaced	May be auctioned but it is obsolete.
Other options to recommendation	

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Project Name	GPS/GIS Upgrade						
Project Number							
Priority							
Service Area	Information Services						
Project Description	The current Global Positioning System (GPS) is out of date and is poorly supported; therefore, it is required to be upgraded. The current GPS identifies location but it is independent of the MD's Global Information System (GIS). This project will upgrade the GPS and link to the MD's GIS.						
Project Cost	<table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">Capital - Hardware – modems, antennae, tablets</td> <td style="text-align: right;">\$53,000</td> </tr> <tr> <td>Annual licenses and support (operating cost)</td> <td style="text-align: right;">\$75,000</td> </tr> </table>	Capital - Hardware – modems, antennae, tablets	\$53,000	Annual licenses and support (operating cost)	\$75,000		
Capital - Hardware – modems, antennae, tablets	\$53,000						
Annual licenses and support (operating cost)	\$75,000						
Funding Sources	Capital – Municipal Sustainability Initiative Grant – Capital						
Timeline	2019						
Rationale for the need	Outdated equipment and software which is poorly supported and unreliable.						
Impact on future operating costs	<table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">Operating costs – annual fees</td> <td style="text-align: right;">\$75,000</td> </tr> <tr> <td>Less: Current annual fees</td> <td style="text-align: right;"><u>25,000</u></td> </tr> <tr> <td>Net operating cost increase</td> <td style="text-align: right;">\$50,000</td> </tr> </table>	Operating costs – annual fees	\$75,000	Less: Current annual fees	<u>25,000</u>	Net operating cost increase	\$50,000
Operating costs – annual fees	\$75,000						
Less: Current annual fees	<u>25,000</u>						
Net operating cost increase	\$50,000						
Impact on other departments	Agriculture will experience a significant increase in useable data as to tracking work that has been done; i.e. spraying. Public works uses it for tracking equipment and will increase their ability to identify locations of work done with permanent record. Provides other users ability to access information on the GIS.						
Implications of deferring this project	Reliability of the current system is diminishing and will soon not be useable.						
Treatment of asset replaced							
Other options to recommendation							



Project Name	Security Camera System		
Project Number	ADMIN-SEC-1		
Priority			
Service Area	Security		
Project Description	Security system for the Administration and Public Works buildings.		
Project Cost	Card access – main building	\$17,100	
	Card access – public works	10,200	
	Cameras – main building	9,300	
	Cameras – public works	7,000	
	Cameras – garbage dumping	3,500	
	Contingency	2,900	
	Total cost	\$50,000	
Funding Sources	Municipal Sustainability Initiative Grant - Capital		
Timeline	Completed in 2019		
Rationale for the need	There have been several break-ins at the Public Works shop in the last couple of years. Security for the administration building will provide safety for the reception staff.		
Impact on future operating costs			
Impact on other departments			
Implications of deferring this project	Addressing security will continue to re-active instead of pro-active.		
Treatment of asset replaced			
Other options to recommendation			



Project Name	Electric Sliding Gate – Public Works Yard
Project Number	PW-O-1
Priority	
Service Area	Public Works - Operations
Project Description	Installation of an electric sliding gate for the Public Works Compound which will secure the Compound while providing uninhibited access for the operators.
Project Cost	\$75,000
Funding Sources	Jubilee Insurance Security Grant - \$2,500 2019 Operating Budget - \$72,500
Timeline	Completed in 2019
Rationale for the need	This will secure the back of the Public Works yard from access by non-municipal personnel.
Impact on future operating costs	
Impact on other departments	
Implications of deferring this project	A locked swinging gate or open gate requires extra monitoring by people in the yard. Minimized access will improve security.
Treatment of asset replaced	
Other options to recommendation	



Capital Budget Extraordinary Projects – Future Years

2021 – Public Works Shop Wash Bays (3)

Projected Cost - \$1,200,000

Public Works has an ongoing requirement for washing equipment. Currently equipment is washed on the north side of the Public Works shop, outside adjacent to the quonset where wash water flows west and north into the yard or freezes in winter. Alternately, equipment is washed at Sudsey's Car Wash, but their exterior bay is closed over winter and their interior bays are not large enough for graders with wings.

This project proposes to build 3 bays onto the existing shop for washing purposes as well as for parking equipment as necessary. By building a single high bay to accommodate the graders with wings and a double bay to allow tractor trailer combinations to be washed, the whole fleet can be accommodated. The additional space can be used in the winter to park equipment indoors where their serviceability is compromised by being outside on cold days when they are required.

Funding Source – To be determined

2021 – Fabric Parking Structure (Public Works Yard)

Projected Cost - \$500,000 (does not include land acquisition)

The Public Works Yard has been increased in size to include the land that was traded from the Town in the 1980's. The increased yard size allows for parking options that were not available previously. There is a parcel of land west of the Public Works yard, east of Highway 6 that is about 1.5 acres. This parcel of land should be purchased or traded from the Town of Pincher Creek to be included in the Municipal District's holdings. Our assessor has determined a probable value on the parcel at \$100,750. It is contiguous to our existing holdings and would preclude another entity operating within the area described.

This proposal would have the Municipal District construct a fabric structure within the enlarged area for the purpose of parking equipment and fleet vehicles. The existing practice of parking equipment outdoors results in deterioration of paint and plastic components. Some of the deterioration is superficial; other aspects reduce life expectancy and operational capabilities.

Funding Source – MSI Capital Grant