
Capital Asset Life-Cycle Management Policy

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Implements: **By-law #5300 – City of Selkirk Capital Asset Management**

OBJECTIVES

- Outline preferred Asset Characteristics for each Asset Class
- Establish clear operating, maintenance and renewal activities and a detailed life cycle schedule for each asset subclass
- Establish a schedule that optimizes the lifecycle of assets and ensures that the right activities are being undertaken at the appropriate time in an assets life to provide the optional lifecycle at the most optimal cost.

SUPPORTING POLICY, PROCEDURES, AND TOOLS**Policy**

CAM-004 Capital Asset Level of Service Policy

CAM-002 Capital Asset Evaluation Policy

Admin 2013-01 Tendering and Procurement Policy

CAM-001 City of Selkirk Asset Register Policy

Procedures

CAM-003-001 Identification of Assets Requiring Maintenance or Renewal

CAM-003-002 Recording Operating, Maintenance, and Renewal Activities

Tools

CAM-003-001-01 Maintenance & Renewal Predictor

CAM-003-001-02 Maintenance and Renewal Lifecycle Events Worksheet

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1 DEFINITIONS

“Administration” means all management and staff of the City of Selkirk as outlined within the City of Selkirk Organization Chart.

“Asset Registry” means the official recording of Capital Assets owned by the City and containing all the data and information generally considered necessary for the delivery of asset management processes.

“Capital Expenditure” means the complete costs associated with the planning, development, acquisition, construction, repair, deconstruction or disposition or other such activity in the life cycle of a tangible capital asset.

“Capital Asset” means a Natural or Engineered Asset deemed material by the City and included in the City’s Asset Registry.

“Capital Asset Management” means the practice of using an integrated, lifecycle approach to systematically plan, source, construct, operation, maintain, renew and decommission municipal infrastructure assets to manage risk and sustainably achieve a prescribed level of service to the public.

“Chief Administrative Officer” means the Chief Administrative Officer for the City of Selkirk as designated by by-law.

“City” means the City of Selkirk.

“Council” means the Council of the City of Selkirk.

“Engineered Assets” means an asset that has been designed and constructed or manufactured by humans for the delivery of municipal services.

“Levels of Service” means the standards set by the City for the characteristics, condition, and/or performance of a municipal asset class, sub-class, or individual asset.

“Life-Cycle Costs” means the sum of all recurring and one-time costs related to the procurement, ownership, operation, maintenance and dispose of an asset or process.

“Repairs and Maintenance Activities” means the life cycle events including both preventative and reactive activities required to achieve the longest lifecycle of an asset. This includes, but is not limited to asset inspections and spot repairs. This does not include betterment activities where a betterment is a cost incurred to enhance the service potential of a tangible capital asset. For example, the widening of a street would be a betterment where a spot repair would be a repair and maintenance activity.

“Natural Asset” means a naturally occurring land, water, air or subsurface feature which performs or supports the delivery of a municipal service.

“Operating Activities” means the processes used to operate an asset to achieve the business objectives. This includes the day to day activities required to ensure the proper use of an asset.

“Sustainability” means the ability to maintain the characteristics and processes at a level, indefinitely into the future.

“Tangible Capital Assets” means non-financial assets having physical substance that:

- (i) are held for use in the production or supply of goods and services, for rental to others, for administrative purposes or for the development, construction, maintenance or repair of other **tangible capital assets**;
- (ii) have useful economic lives extending beyond an accounting period;
- (iii) are to be used on a continuing basis; and
- (iv) are not for sale in the ordinary course of operations

“Third Party Application” means any software product or service that is provided by an external provider in agreement with the Administration for the effective delivery of Capital Asset Management.

2 SCOPE

- 2.1 This policy shall provide guidance to Administration on the practices and standards the City shall use to procure, maintain, operate, renew and decommission the City’s Capital Assets.

3 ENVIRONMENTAL RESPONSIBILITY

- 3.1 The City of Selkirk shall seek to employ asset life-cycle management practices that reduce the negative environmental impact of the City’s Capital Assets.
- 3.2 The City of Selkirk shall consider the environmental impact of its life-cycle management decisions. Considerations may include, but are not limited to:
- (a) Greenhouse Gas Emissions
 - (b) Energy consumption
 - (c) Toxicity
 - (d) Amount of resources consumed
 - (e) Renewability of resources consumed

- 3.3** When procuring Capital Assets, the City of Selkirk shall identify its commitment to environmental responsibility in any tender or call for proposal/quote documentation and shall reflect this commitment in any procurement evaluation schema it uses to make a procurement decision.

4 ASSET EFFICIENCY AND EFFECTIVENESS

- 4.1** The City of Selkirk shall seek to employ asset life-cycle management practices that maximize the service-life and minimize the service and capital costs of the City's Capital Assets.
- 4.2** The City of Selkirk shall seek to employ asset life-cycle management practices that fulfill the City's *Capital Asset Level of Service Policy*.
- 4.3** If, and when there is conflict between the fulfillment of Clause 4.1 and 4.2 of this policy, Administration shall give preference to the fulfillment of Clause 4.2.

5 PREFERENCE FOR NATURAL ASSETS

- 5.1** Where practicable, the City of Selkirk shall seek to substitute the use of Engineered Assets in situations where Natural Assets will achieve comparable Levels of Service.

6 PREVENTATIVE MAINTENANCE

- 6.1** The City of Selkirk shall implement preventative maintenance strategies for each asset class to ensure asset reliability while maximizing the lifecycle of an asset.
- 6.2** Each asset belonging to the Fleet Asset Class shall have a customized preventative maintenance program.
- 6.3** Each asset belonging to the Machinery and Equipment Asset Class shall have a customized preventative maintenance program.
- 6.4** Each asset in the City of Selkirk Asset Registry shall be inspected on a scheduled basis as outlined in the *Capital Asset Evaluation Policy*. Based on the results of the scheduled inspections, the appropriate preventative maintenance activity will be considered subject to the availability of resources.
- 6.5** Each asset subclass in the City of Selkirk Asset Registry shall receive routine preventative maintenance activities to maximize the service life of each asset. Preventative maintenance activities for each asset subclass are listed below.

Asset Subclass	Preventative Maintenance Activities
Facilities	Each asset belonging to the Facilities Asset Class shall have a customized preventative maintenance program
Fleet	Each asset belonging to the Fleet Asset Class shall have a customized preventative maintenance program
Land Improvements: Paved Parking Lots	Crack Sealing Rout Sealing Asphalt Overlay
Land Improvements: Gravel Parking Lots	Add Gravel Reshape
Land Improvements: Asphalt Pathways	Crack Sealing Asphalt Overlay
Land Improvements: Gravel Pathways	Spot Repairs Add Gravel Reshape
Land Improvements: Grass Pathways	N/A
Machinery & Equipment	Each asset belonging to the Machinery and Equipment Asset Class shall have a customized preventative maintenance program
Road Network: Asphalt Road Surface	Crack Seal Rout Seal Asphalt Overlay
Road Network: Gravel Road Surface	Add Gravel Reshape
Road Network: Road Base	Repack
Road Network: Road Subbase	n/a
Road Network: Road Curb	Spot Repairs
Road Network: Sidewalks	Grinding Jacking Panel Replacement

Road Network: Sidewalk Base	Repack
Storm Network: Storm Water Main	Pipe Relining
Storm Network: Storm Manholes	Synthetic Lining
Storm Network: Storm Manhole Frame and Cover	n/a
Water Network: Watermain	Pipe Relining
Water Network: Fire Hydrants	Hydrant Rebuild
Wastewater Network: Wastewater Main	Pipe Relining
Wastewater Network: Manhole	Synthetic Lining
Wastewater Network: Manhole Frame and Cover	n/a

7 ASSET PROCUREMENT

- 7.1 The City shall follow the current *Tendering and Procurement Policy* when purchasing capital assets.
- 7.2 Capital assets procured through tenders and requests for proposal shall request a comprehensive analysis of asset life cycle costs.
- 7.3 The City of Selkirk shall consider environmental impacts, overall lifecycle and costs when procuring new assets.

8 PREFERRED ASSET CHARACTERISTICS

- 8.1 When acquiring a new asset, the City shall give preference to those assets that have preferred characteristics. The table below outlines the preferred asset characteristics for each Asset Class in the City of Selkirk Asset Registry.

Asset Class	Asset Subclass	Preferred Asset Characteristics
Facilities		
	<ul style="list-style-type: none"> Wastewater Buildings Recreation and Culture Buildings Water Buildings Civic Buildings Library Heritage Buildings Wastewater Buildings 	<ul style="list-style-type: none"> Brick, Mortar, Steel Renewable Energy Heat Source
	<ul style="list-style-type: none"> Storage Buildings Wastewater Buildings (Pumping Stations) Recreation and Culture Buildings 	<ul style="list-style-type: none"> Wood Frame Renewable Energy Heat Source

	<ul style="list-style-type: none"> • Community Halls • Civic Building 	
Fleet		
	Fire Trucks	<ul style="list-style-type: none"> • Manufacturing must be a current member of Fire Apparatus Manufacturers Association (FAMA) • Manufacturer must be registered with Transport Canada to the National Safety Mark Standards
	<ul style="list-style-type: none"> • Truck (1 Ton) • Truck (Under 1 Ton) 	<ul style="list-style-type: none"> • 2 Wheel Drive • 8 Foot Box
	Bus	<ul style="list-style-type: none"> • Minimum 10-year structural warranty • Environmentally conscious fuel source.
	Road Equipment	<ul style="list-style-type: none"> • Certified ROPS to meet requirements of SAE-J1040 and ISO 3471 • Certified FOPS to meet requirements of SAE-J1043 and ISO 3449, Level II • Units shall be the standard production models in the latest design current production • Diesel engine capable of developing no less than 60 SAE Horsepower • Block heater
Land Improvements		
	Parking Lot Surface	<ul style="list-style-type: none"> • Crushed Limestone • High Class Asphalt
	Parking Lot Base	<ul style="list-style-type: none"> • Crushed Limestone [3/4"]
	Parking Lot Subbase	<ul style="list-style-type: none"> • Crushed limestone [2" - 6"]
	Pathway Surface	<ul style="list-style-type: none"> • Crushed Limestone [3/4"]
Machinery & Equipment		
	<ul style="list-style-type: none"> • Cleaning Equipment • Fire Equipment • Fuel Tank • Grass Equipment • Ice Resurfacing Equipment • Pumps • Stage 	

Road Network		
	Road Base	<ul style="list-style-type: none"> • Crushed Limestone [3/4"]
	Road Curb	<ul style="list-style-type: none"> • Non-Reinforced Concrete
	Road Subbase	<ul style="list-style-type: none"> • Crushed Limestone [2"-6"]
	Road Surface	<ul style="list-style-type: none"> • High Class Asphalt • Crushed Limestone [3/4"]
	Sidewalk Base	<ul style="list-style-type: none"> • Crushed Limestone [Base Course - 3/4"]
	Sidewalk Surface	<ul style="list-style-type: none"> • Non-Reinforced Concrete
Storm Network		
	Storm Main	<ul style="list-style-type: none"> • PVC [Polyvinyl Chloride] • Reinforced Concrete
	Storm Manhole	<ul style="list-style-type: none"> • Reinforced Concrete
	Storm Manhole Frame & Cover	<ul style="list-style-type: none"> • Cast Iron
Wastewater Network		
	Wastewater Main	<ul style="list-style-type: none"> • PVC [Polyvinyl Chloride] • HDPE [High Density Polyethylene] • Reinforced Concrete
	Wastewater Manhole	<ul style="list-style-type: none"> • Reinforced Concrete
	Wastewater Manhole Frame and Cover	<ul style="list-style-type: none"> • Cast Iron
Water Network		
	Fire Hydrant	<ul style="list-style-type: none"> • Cast Iron [Mcavity Brigadier] • Required to open counter clockwise
	Water Main	<ul style="list-style-type: none"> • PVC [Polyvinyl Chloride] • HDPE [High Density Poly Ethelene]

9 ASSET OPERATION

Administration shall maintain a yearly schedule, outlining the per unit cost of all operating activities.

9.1 Facilities

9.1.1 Each asset belonging to the Facilities Asset Class shall have a customized schedule for routine operational activities.

9.2 Fleet

9.2.1 Each asset belonging to the Fleet Asset Class shall have a customized schedule for routine operational activities.

9.3 Land Improvements

9.3.1 Parking Lots (Gravel)

Each gravel parking lot will be subject to the following scheduled operational activities.

Operation Activity	Schedule	Unit Cost
Grading	Annually(1)	Meter Square
Snow Clearing	As Required	Meter Square

9.3.2 Parking Lots (Paved)

Each paved parking lot will be subject to the following scheduled operational activities.

Operation Activity	Schedule	Unit Cost
Snow Clearing	As Required	Meter Square
Sweeping	As Required	Meter Square
Line Painting	Annually (1)	Liner Meter

9.3.3 Pathways (Gravel)

Operational Activity	Schedule	Unit Cost
Spot Repairs	As Required	Linear Meter

9.3.4 Pathways (Paved)

Currently there are no routine operational activities for paved pathways.

9.4 Machinery & Equipment

9.4.1 Each asset belonging to the Machinery and Equipment Asset Class shall have a customized schedule for routine operational activities.

9.5 Road Network

9.5.1 Paved Road Surface

Each paved road surface will be subject to the following scheduled operational activities.

Operation Activity	Schedule	Unit
Cold Patching	As Required	Meter Square
Line Painting	2 Times annually (Spring & Late Summer)	Linear Meter
Street Sweeping	As Required	Linear Meter
Snow Clearing	As Required	Linear Meter
Sanding	As Required	Linear Meter
Condition Inspections	Annually (Spring)	Linear Meter

9.5.2 Gravel Road Surface

Each gravel road surface will be subject to the following scheduled operational activities.

Operation Activity	Schedule	Unit
Grading	As Required	Linear Meter
Dust Control	As Required	Meter Square
Snow Clearing	As Required	Linear Meter

9.5.3 Road Curbs

Each road curb asset surface will be subject to the following scheduled operational activities.

Operation Activity	Schedule	Unit
Curb Painting	Bi-Annually	Linear Meter

9.5.4 Sidewalk Surface

Each sidewalk surface will be subject to the following scheduled operational activities.

Operational Activity	Schedule	Unit
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Weed Removal	As Required	Linear Meter
Snow Clearing	As Required	Linear Meter

9.6 Storm Network

Operational Activity	Schedule	Unit
CCTV Inspections	10% of Network Annually	Linear Meters
Line Cleaning	10% of Network Annually	Linear Meters

9.7 Wastewater Network

Operational Activity	Schedule	Unit
CCTV Inspection	10% of Network Annually	Linear Meter
Line Cleaning	10% of Network Annually	Linear Meter

9.8 Water Network

9.8.1 Water Main

Operational Activity	Schedule	Unit
Flushing	10% of Network Annually	Linear Meter
Swabbing	10% of Network Annually	Linear Meter

9.8.2 Fire Hydrants

Each fire hydrant will be subject to the following scheduled operational activities.

Operation Activity	Schedule	Unit
Hydrant Flushing/Inspection	Annually (Temperatures below 0° C)	Per Hydrant
Hydrant Painting	As required	Per Hydrant

10 ASSET RENEWAL AND MAINTENANCE SCHEDULE

Each asset class in the City of Selkirk Asset Registry shall have a maintenance program developed that includes a schedule of routine and preventative maintenance strategies as well as capital interventions.

10.1 Facilities

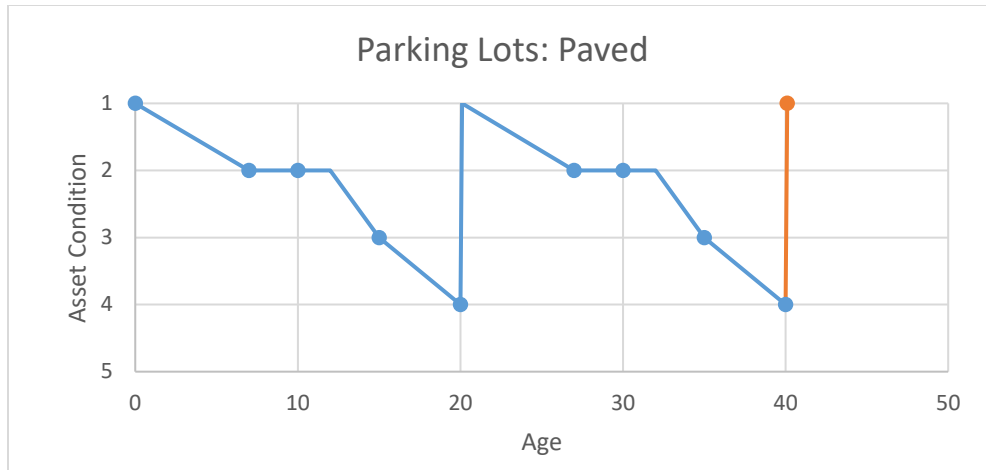
Each Asset Belonging to the Facilities Asset Class Shall have an Individual Asset Management Plan, and asset deterioration curves.

10.2 Fleet

Each Asset Belonging to the Fleet Asset Class Shall have an Individual Asset Management Plan, and asset deterioration curve.

10.3 Land Improvements

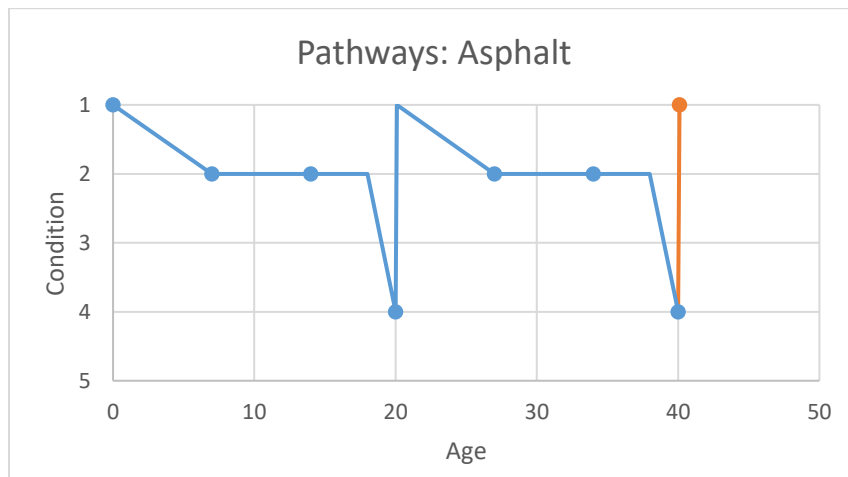
Parking Lots – Paved							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Units of Cost
Crack Seal	Maintenance	As Required	2	n/a	No Conditional impact	7 Years	Linear meter
Crack Seal	Maintenance	As Required	2	n/a	No Conditional impact	10 Years	Linear meter
Rout Seal	Maintenance	As Required	3	n/a	No Conditional Impact	15 Years	Linear meter
Overlay	Renewal	1	4	3	1	20 Years	Cubic Meter
Crack Seal	Maintenance	As Required	2	n/a	No Conditional impact	27 Years	Linear meter
Crack Seal	Maintenance	As Required	2	n/a	No Conditional impact	30 Years	Linear meter
Rout Seal	Maintenance	As Required	3	n/a	No Conditional Impact	35 Years	Linear meter
Mill & Fill Replacement (Draining Issues)	Renewal	n/a	4	5	1	40 Years	Cubic Meter
Asset Replacement (Deteriorating Structure)	Renewal	n/a	4	5	1	40 Years	Cubic Meter



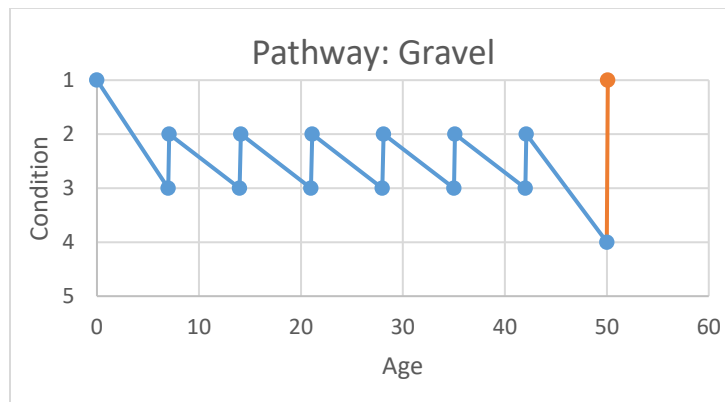
Parking Lots - Gravel (1 Year Cycle)							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Units of Cost
Add Gravel	Renewal	50	3	1	2	Annually	Tonnes
Reshape	Maintenance	50	3	1	2	Annually	n/a
Replace	Renewal	n/a	5	4	1	50 Years	Tonnes

Parking Lots - Gravel (2 Year Cycle)							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Units of Cost
Add Gravel	Renewal	25	3	1	2	Bi-Annually	Tonnes
Reshape	Maintenance	25	3	1	2	Bi-Annually	n/a
Replace	Renewal	n/a	5	4	1	50 Years	Tonnes

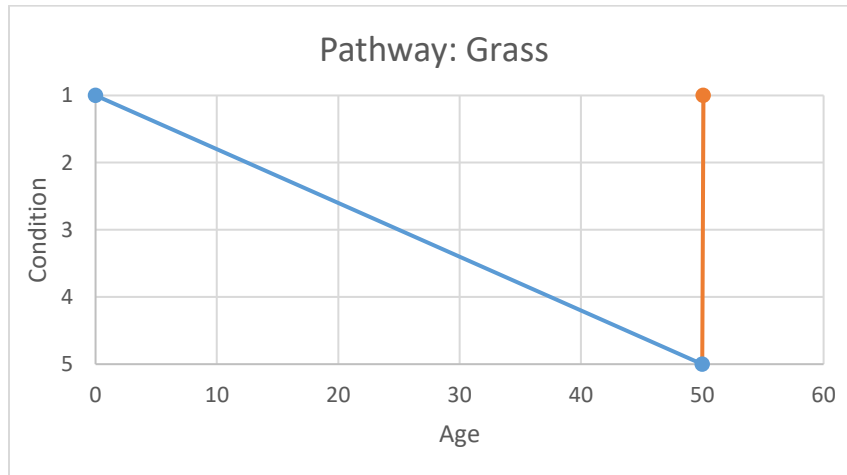
Pathways (Asphalt)							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Units of Cost
Crack Seal	Maintenance	As Required	2	n/a	No Conditional Impact	7 Years	Linear Meter
Crack Seal	Maintenance	As Required	2	n/a	No Conditional Impact	14 Years	Linear Meter
Overlay	Renewal	1	4	3	1	20 Years	Square Meter
Crack Seal	Maintenance	As Required	2	n/a	No Conditional Impact	27 Years	Linear Meter
Crack Seal	Maintenance	As Required	2	n/a	No Conditional Impact	34 Years	Linear Meter
Replace	Renewal	n/a	4	3	1	40 Years	Square Meter



Pathways (Gravel)							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Units of Cost
Add Gravel	Renewal	8	3	1	2	7 Years	Tonnes
Reshape	Maintenance	8	3 (At time Gravel is added)	1	2	7 Years	n/a
Asset Replacement	Renewal	n/a	5	4	1	50 Years	Tonnes



Pathways (Grass)							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Units of Cost
Asset Replacement	Renewal	n/a	5	4	1	50 Years	



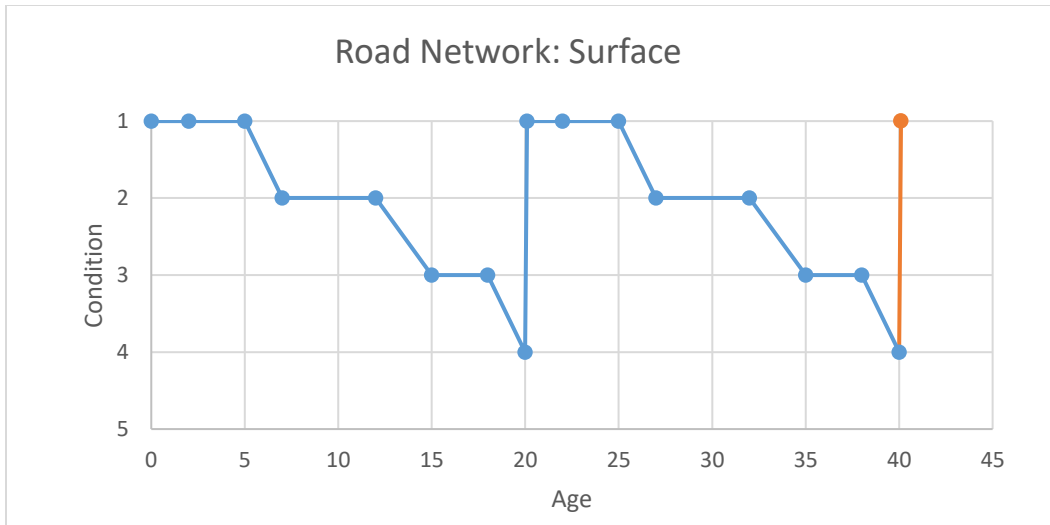
Pathway Base							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Units of Cost
Repack	Maintenance	1	Time of Gravel pathways Surface Replacement			40 Years	n/a
Replace	Renewal	n/a	5	4	1	80 Years	Tonnes

10.4 Machinery and Equipment

Each asset belonging to the Machinery and Equipment Asset Class shall have an individual Asset Management Plan and a customized asset deterioration curve.

10.5 Road Network

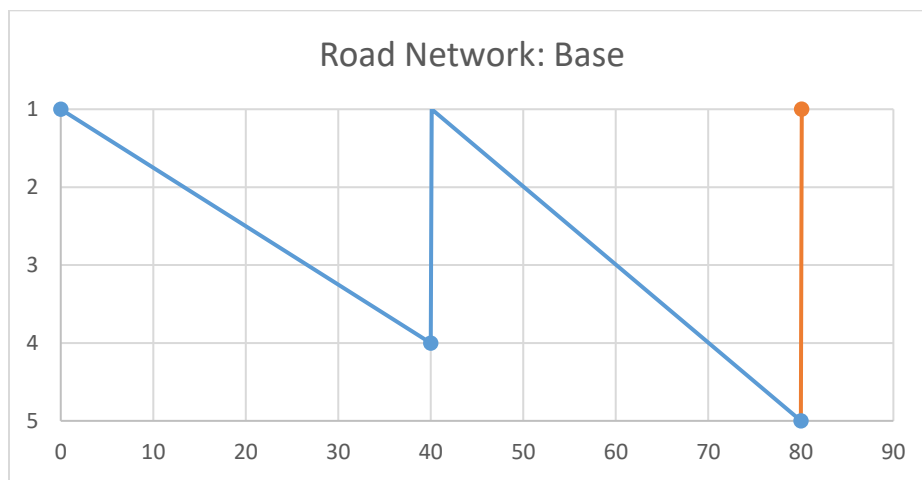
Road Surface – Paved Roads (Asphalt)							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Units of Cost
Crack Seal	Maintenance	9	1	/	No Conditional Impact	2 Years	Linear Meters
Crack Seal	Maintenance	9	1	/	No Conditional Impact	5 Years	Linear Meters
Crack Seal	Maintenance	9	2	/	No Conditional Impact	7 Years	Linear Meters
Crack Seal	Maintenance	9	2	/	No Conditional Impact	12 Years	Linear Meters
Rout Seal	Maintenance	4	3	/	No Conditional Impact	15 Years	Linear Meters
Crack or Rout Seal	Maintenance	9/4	3	/	No Conditional Impact	18 Years	Linear Meters
Overlay	Renewal	1	4	3	1	20 Years	Cubic Meters
Crack Seal	Maintenance	9	1	/	No Conditional Impact	22 Years	Linear Meter
Crack Seal	Maintenance	9	2	/	No Conditional Impact	27 Years	Linear Meter
Crack or Rout Seal	Maintenance	9/4	2	/	No Conditional Impact	32 Years	Linear Meter
Rout Seal	Maintenance	4	3	/	No Conditional Impact	35 Years	Linear Meter
Crack or Rout Seal	Maintenance	9/4	3	/	No Conditional Impact	38 Years	Linear Meter
Mill & Fill (Drainage)	Renewal	1	4	3	1	40 Years	Cubic Meters
Asset Replacement (Structural)	Renewal	n/a	4	3	1	40 Years	Cubic Meters



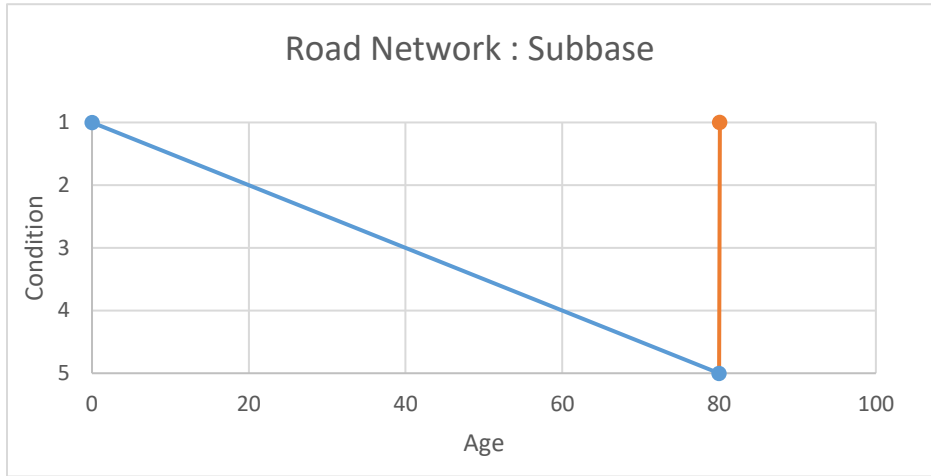
Road Surface - Gravel Roads (1 Year Cycle)							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Units of Cost
Reshape	Maintenance	1	2	1	1	Annually	Meter
Add Gravel	Renewal	1	3	1	2	Annually	Tonnes
Reshape	Maintenance	1	3 (At time of adding Gravel)	1	2	Annually	Meter
Replace	Renewal	n/a	5	4	1	50 Years	Tonnes

Road Surface - Gravel Roads (3 Year Cycle)							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Reshape	Maintenance	3	2	1	1	Annually	Meter
Add Gravel	Renewal	1	3	1	2	Every 3 Years	Tonnes
Reshape	Maintenance	1	3 (At time of added Gravel)	1	2	Every 3 Years	Meter
Replace	Renewal	n/a	5	4	1	50 Years	Tonnes

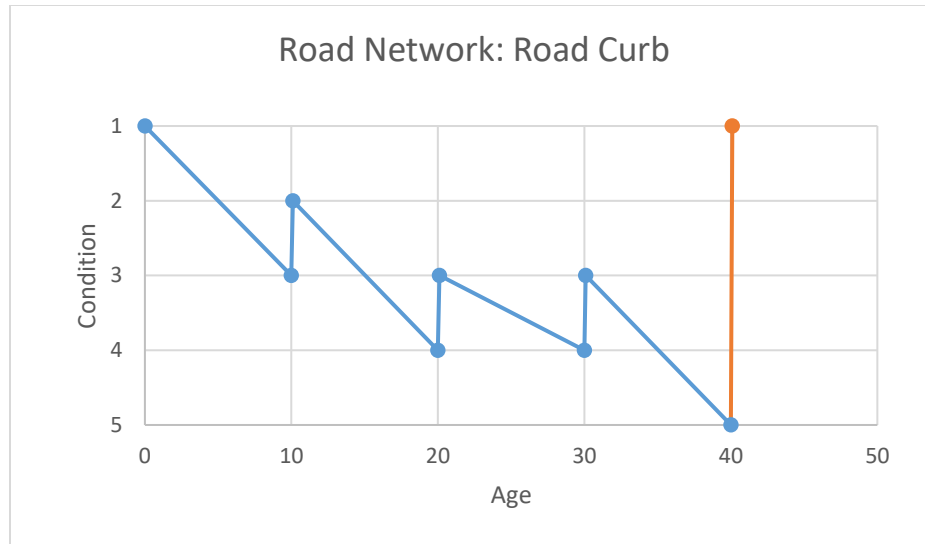
Road Base							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Repack	Renewal	1	Time of Asphalt Resurfacing		1	40 Years	n/a
Asset Replacement	Renewal	n/a	Time of second Asphalt Resurfacing		1	80 Years	Tonnes



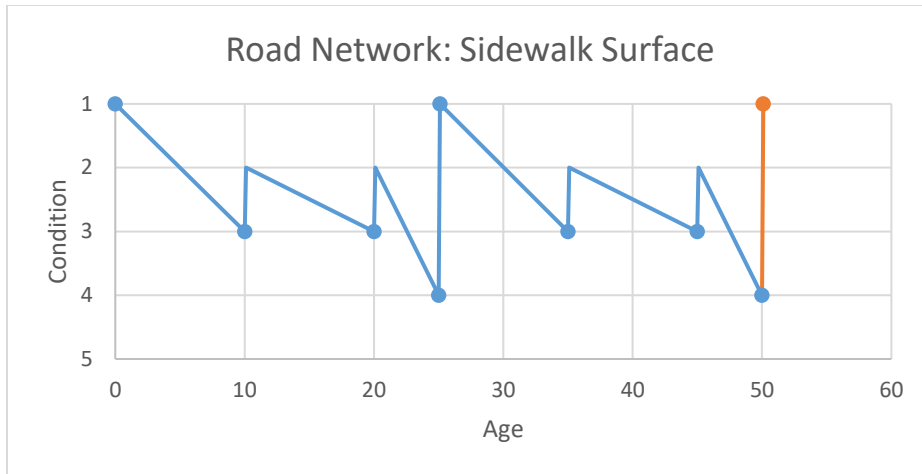
Road Subbase							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Asset Replacement	Renewal	n/a	Same time as Scheduled Road Base Replacement, & second Road Surface Replacement		1	80 Years	Tonnes



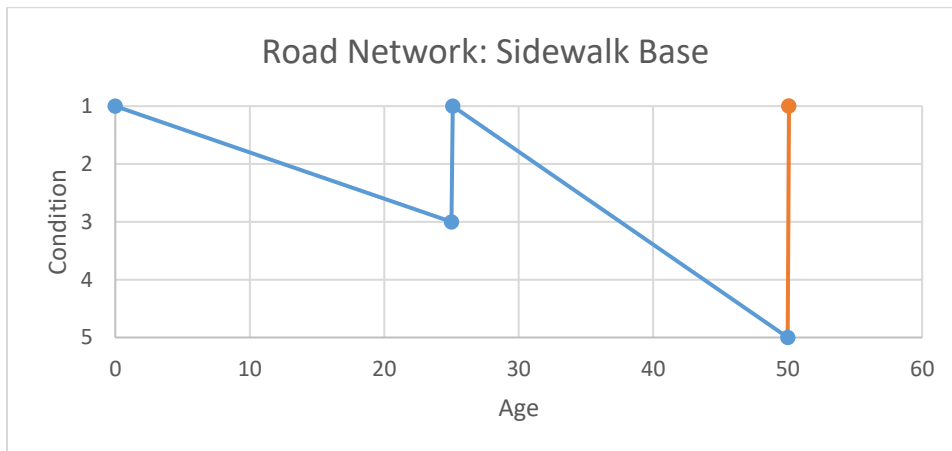
Road Curb							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Spot Repair	Maintenance	As Required	3	1	2	10 Year	Linear Meter
Spot Repair	Maintenance	As Required	4	1	3	20 Years	Linear Meter
Spot Repair	Maintenance	As Required	4	1	3	30 Year	Linear Meter
Asset Replacement	Renewal	n/a	Time of Second Road Surface Replacement		1	40 Years	Linear Meter



Sidewalks							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Grinding	Maintenance	As Required	3	1	2	10 Years	Linear Meter
Jacking	Maintenance	As Required	3	1	2	10 Years	Linear Meter
Grinding	Maintenance	As Required	3	1	2	20 Years	Linear Meter
Jacking	Maintenance	As Required	3	1	2	20 Years	Linear Meter
Panel Replacement	Renewal	2	4	3	1	25 Years	Squared Meter
Grinding	Maintenance	As Required	3	1	2	35 Years	Linear Meter
Jacking	Maintenance	As Required	3	1	2	35 Years	Linear Meter
Grinding	Maintenance	As Required	3	1	2	45 Years	Linear Meter
Jacking	Maintenance	As Required	3	1	2	45 Years	Linear Meter
Full Segment Replacement	Renewal	n/a	4	3	1	50 Years	Squared Meter

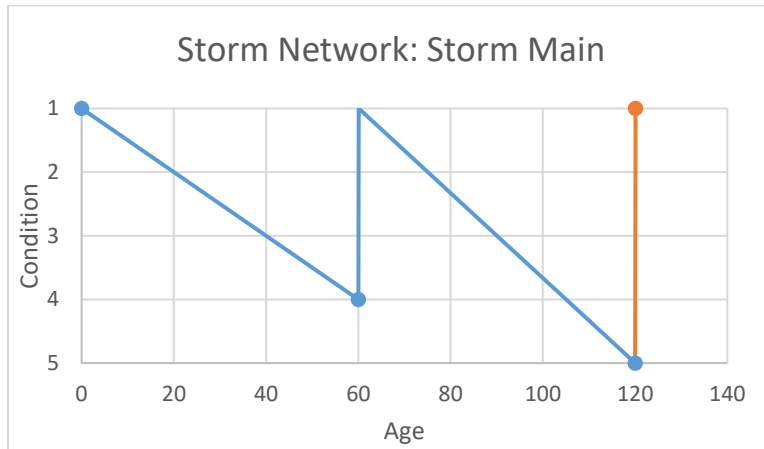


Sidewalk Base							
Treatment	Maintenance/ Renewal	Max Number of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Repack	Maintenance	1	3	2	1	25 Years	n/a
Replace	Renewal	n/a	5	4	1	50 Years	Tonnes

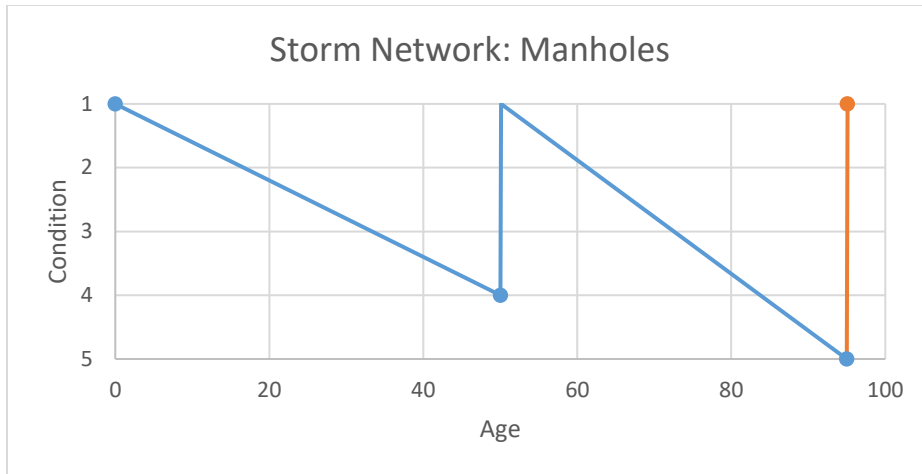


10.6 Storm Network

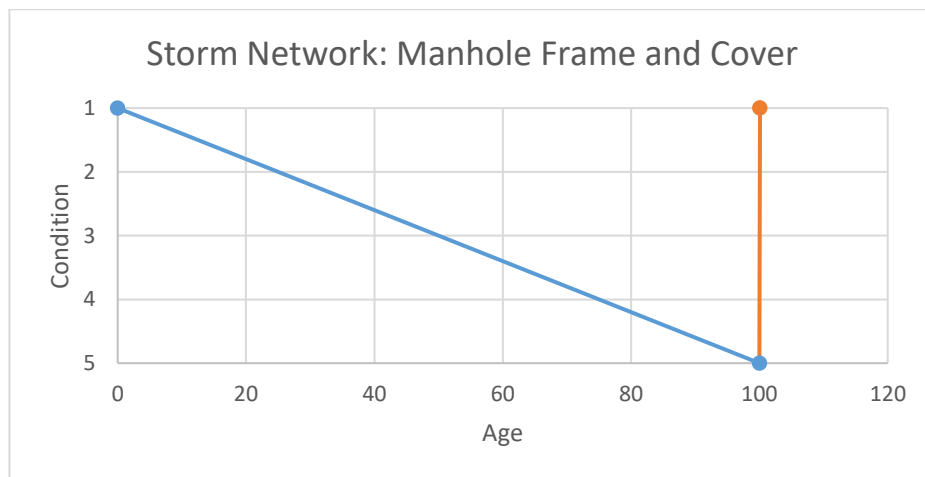
Storm Water Main (PVC)							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Pipe Relining	Renewal	1	4	3	1	60 Years	Linear Meters
Asset Replacement	Renewal	n/a	5	4	1	120 Years	Linear Meters



Storm Manholes							
Treatment	Maintenance/ Renewal	Max Number of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Synthetic Lining	Renewal	1	4	3	1	50 Years	Per Manhole
Asset Replacement	Renewal		5	4	1	95 Years	

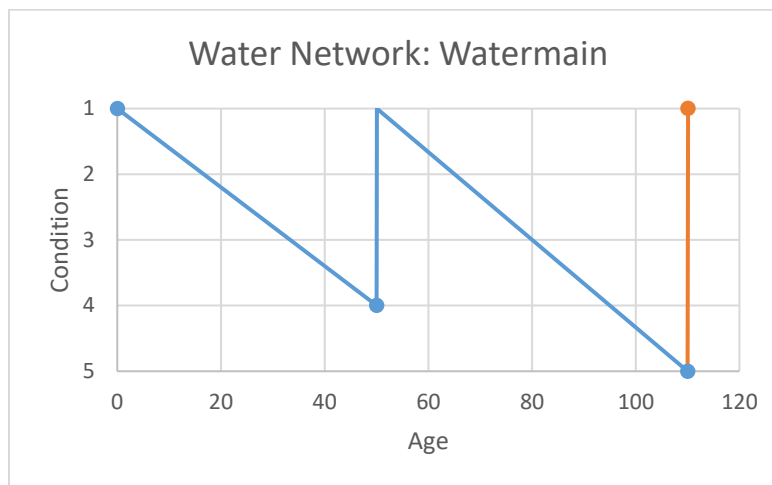


Storm Manhole Frame & Cover							
Treatment	Maintenance/ Renewal	Max Number of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Asset Replacement	Renewal		5	4	1	100 Years	

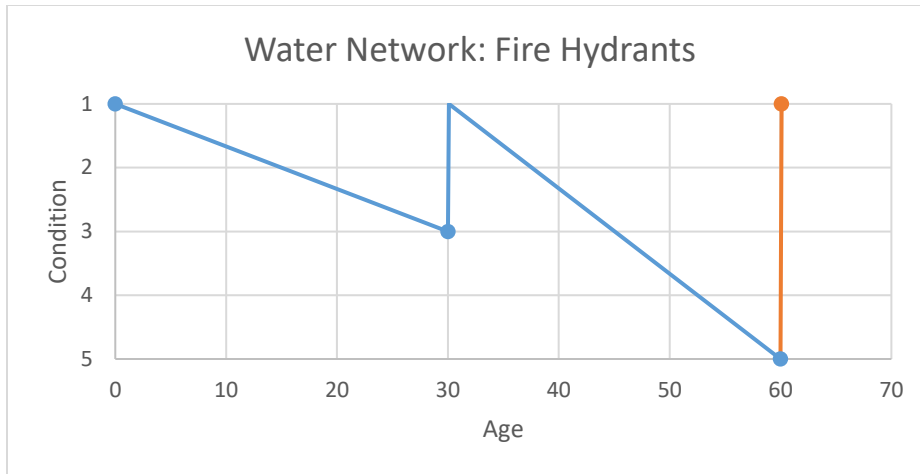


10.7 Water Network

Watermain (PVC)							
Treatment	Maintenance/ Renewal	Max Number of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Pipe Relining	Renewal	1	4	3	1	50 Years	Linear Meter
Asset Replacement	Renewal	n/a	5	4	1	100 Years	Linear Meter

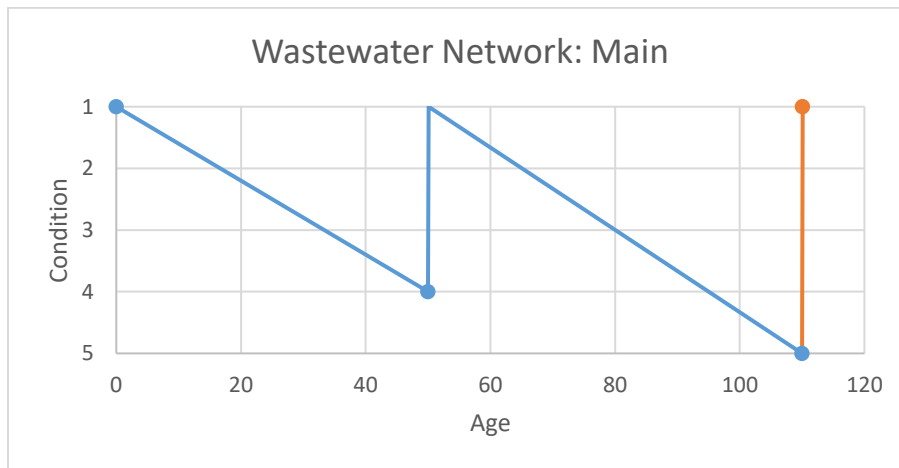


Fire Hydrants							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Hydrant Rebuild	Maintenance	1	3	2	1	30 Years	Per Hydrant
Asset Replacement	Renewal	n/a	5	4	1	60 Years	Per Hydrant

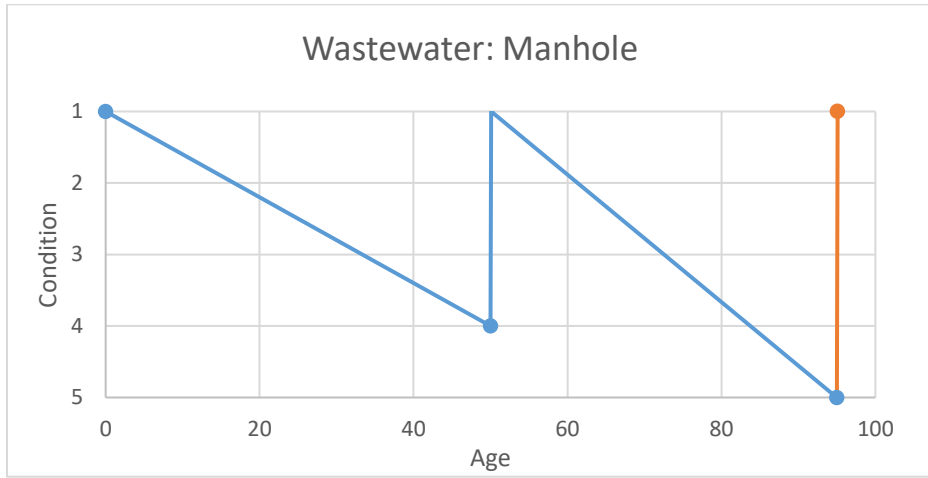


10.8 Wastewater Network

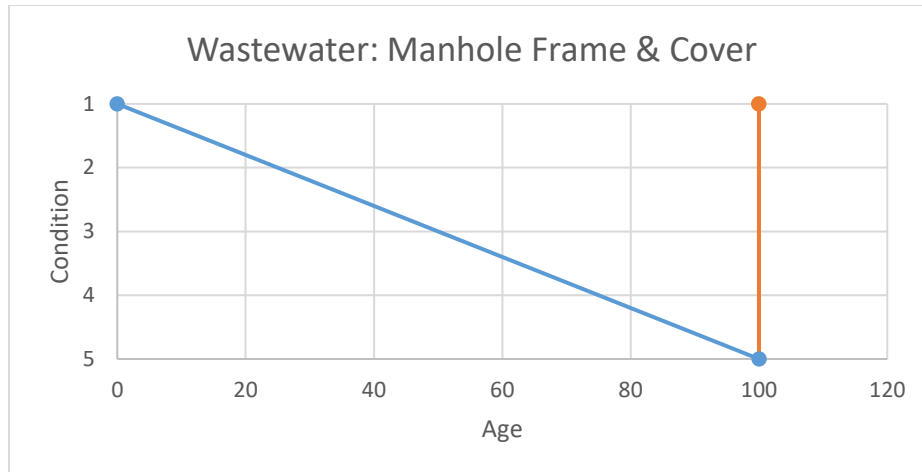
Wastewater Main (PVC)							
Treatment	Maintenance/Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Pipe Relining	Renewal	1	4	3	1	50 Years	Linear Meter
Asset Replacement	Renewal	n/a	5	4	1	86 Years	Linear Meter



Wastewater Manhole							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Synthetic Lining	Renewal	1	4	3	1	50 Years	Per Manhole
Asset Replacement	Renewal	n/a	5	4	1	95 Years	



Wastewater Manhole Frame & Cover							
Treatment	Maintenance/ Renewal	Max # of Treatments	Trigger Condition	Max Condition Gain	Threshold (best achievable condition)	Anticipated Asset Age	Unit of Cost
Asset Replacement	Renewal	n/a	5	4	1	100 Years	



11 ASSET DECOMMISSIONING

11.1 When an asset has reached the end of its service life for the City of Selkirk, it shall be disposed of as outlined in the *Asset Register Policy*.

12 INTEGRATION INTO CITY BUSINESS PLANNING

12.1 Administration will ensure that the City of Selkirk Tactical Plan and Long-Term Budget will align with the schedules outlined in this policy.

13 UPDATING THE ASSET REGISTRY

13.1 Lifecycle events are recorded as per *Asset Registry Policy*.

14 RESPONSIBILITIES

14.1 The Director of Operations shall ensure that this policy is align with current industry practices

14.2 It is the responsibility of all department managers to ensure that all operating, maintenance and renewal activities outlined in this policy are reported back to the GIS analyst, at the AssetID level. Record of completed work must be accompanied with a copy of all relative invoices.

15 POLICY REVIEW

This policy shall be reviewed no less than every five years from the date it is effective.

16 EFFECTIVE DATE

DRAFT

17 AUTHORITY

By-law 5300 City of Selkirk Capital Asset Management By-law (or successor by-law)

- 17.1** The City of Selkirk shall establish and maintain a comprehensive and current Asset Registry
- 17.2** Such registry shall include data and information pertaining to the City’s Capital Assets generally considered appropriate for the effective delivery of a Capital Asset Management program for a community of the size and complexity of the City of Selkirk.
 - 17.2.1** The Chief Administrative Officer is responsible for:
 - 17.2.1.1** Ensuring the development and maintenance of a robust and sustainable Capital Asset Management program.
 - 17.2.1.2** Establishing policies, practices, procedures and allocating the resources necessary to competently deliver the City’s Capital Asset Management program.

By-law 5283 City of Selkirk Chief Administrative Officer Bylaw (or successor by-law)

- 17.3** The Chief Administrative Officer is authorised to make regulations, implement policies, establish fees and charges, rules or practice and procedures, and enter into agreements that he/she considers necessary to carry out the purpose and responsibilities of this By-law or any other By-law of the City of Selkirk.

Duane Nicol, Chief Administrative Officer

Date Approved